

Report No.: SEWM2211000245RG03

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TEST REPORT

Application No.: SEWM2211000245RG

Applicant: Omnitracs, LLC

Address of Applicant: 9246 Lightwave Ave., Suite 320, San Diego, California, USA 92123

Manufacturer: AsiaTelco Technologies Co.

Address of Manufacturer: No. 68 Huatuo Road, Building-8, Zhangjiang Hi-Tech Park, Pudong, Shanghai

201203, China

EUT Description: Smart Telematics Recorder

Model No.: CV90-JE305

Trade Mark: Solera

FCC ID: 2AE8Z-STR01

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2022/11/17

Date of Test: 2022/11/26 to 2022/12/07

Date of Issue: 2022/12/09

Test Result : PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above

Authorized Signature:

Panta Sun Wireless Laboratory Manager



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1 Version

Revision Record						
Version	Version Chapter Date Modifier Remark					
01		2022/12/09		Original		

Prepared By	(Ives Cheng) / Test Engineer
Checked By	(Well Wei) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions		ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

Applicant:	Omnitracs, LLC
Address of Applicant:	9246 Lightwave Ave., Suite 320, San Diego, California, USA 92123
Manufacturer:	AsiaTelco Technologies Co.
Address of Manufacturer:	No. 68 Huatuo Road, Building-8, Zhangjiang Hi-Tech Park, Pudong, Shanghai 201203, China

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, King-p Li

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Smart Telematics Recorder			
Model No.:	CV90-JE305			
Trade Mark:	Solera			
Hardware Version:	P3			
Software Version:	5.00.00P1			
IMEI:	RF Conducted	868260050727321		
IIVICI.	RSE & AC power line	868260050724520		
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.			
Bluetooth version:	Bluetooth V5.2			
Modulation Type:	GFSK	GFSK		
Number of Channel:	40	40		
Datas Type*	⊠Provided by client			
Rates Type*:	1M PHY 2M PHY			
Antenna Type:	PIFA Antenna			
	3dBi			
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
RF Cable:	1.0dB			

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

Remark:

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Operation Frequency of each channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency	
The Lowest channel(CH0)	2402MHz	
The Middle channel(CH19)	2440MHz	
The Highest channel(CH39)	2480MHz	



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3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests			
Relative Humidity	44-46 % RH Ambient			
Value	Temperature(°C) Voltage(V)			
NTNV	22~23	12		
Domorks				

Remark:

NV: Normal Voltage NT: Normal Temperature

3.6 Description of Support Units

Description	Manufacturer	Model No.	
Computer	Lenovo	T14	



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Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(b)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is PIFA Antenna and no consideration of replacement.

The best case gain of the antenna is 3dBi. *

*Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207			
Test Method:	ANSI C63.10: 2013 Section 6.2			
Test Frequency Range:	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, VBW = 30kHz			
Limit:	Fragues as a responsibility	BuV)		
	Frequency range(MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the log	arithm of the frequency.		
Test Procedure:	The mains terminal discrete room.	sturbance voltage test was co	onducted in a shielded	
	 room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 		a 50Ω/50µH + 5Ω linear the EUT were to the ground reference eing measured. A ultiple power cables to a pot exceeded. The table 0.8m above the tangement, the EUT was rence plane. The rear of ference plane. The horizontal ground means the boundary of the plane for LISNs is distance was between other units of the EUT in the LISN 2.	



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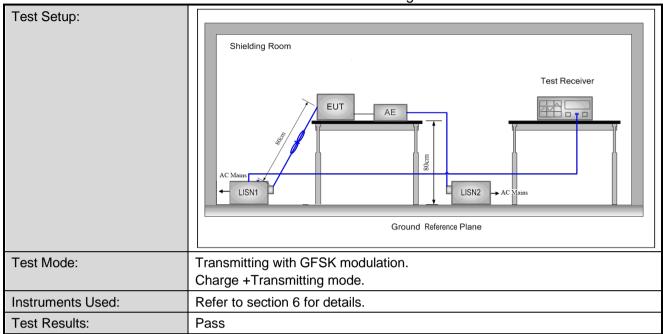
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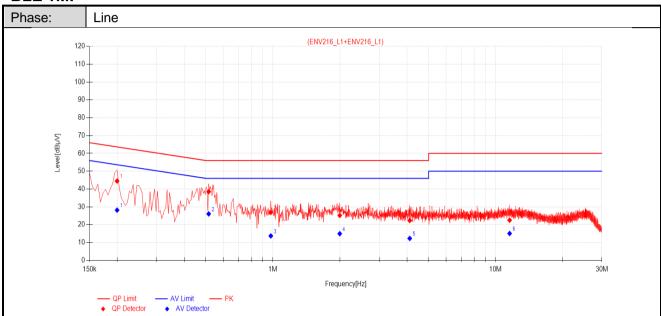
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

BLE 1M:



Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1995	10.82	33.69	44.51	63.63	19.12	17.36	28.18	53.63	25.45	PASS
2	0.5145	10.60	27.93	38.53	56.00	17.47	15.47	26.07	46.00	19.93	PASS
3	0.9780	10.51	16.38	26.89	56.00	29.11	3.22	13.73	46.00	32.27	PASS
4	1.9950	10.68	14.55	25.23	56.00	30.77	4.29	14.97	46.00	31.03	PASS
5	4.1145	10.73	11.64	22.37	56.00	33.63	1.58	12.31	46.00	33.69	PASS
6	11.5575	10.59	11.96	22.55	60.00	37.45	4.51	15.10	50.00	34.90	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



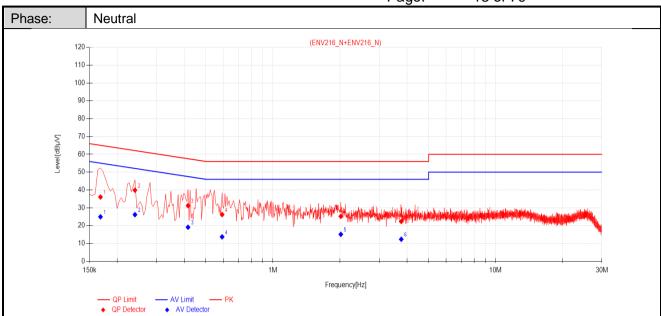
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Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1680	10.72	25.35	36.07	65.06	28.99	14.24	24.96	55.06	30.10	PASS
2	0.2400	10.72	29.18	39.90	62.10	22.20	15.45	26.17	52.10	25.93	PASS
3	0.4155	10.82	20.41	31.23	57.54	26.31	8.29	19.11	47.54	28.43	PASS
4	0.5910	10.69	15.53	26.22	56.00	29.78	3.04	13.73	46.00	32.27	PASS
5	2.0175	10.77	14.44	25.21	56.00	30.79	4.36	15.13	46.00	30.87	PASS
6	3.7680	10.71	11.66	22.37	56.00	33.63	1.66	12.37	46.00	33.63	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



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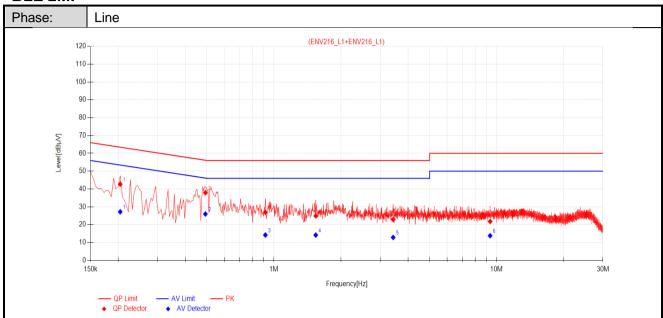
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BLE 2M:



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1	0.2040	10.82	31.85	42.67	63.45	20.78	16.40	27.22	53.45	26.23	PASS
2	0.4920	10.61	27.31	37.92	56.13	18.21	15.37	25.98	46.13	20.15	PASS
3	0.9150	10.58	16.34	26.92	56.00	29.08	3.63	14.21	46.00	31.79	PASS
4	1.5405	10.77	14.12	24.89	56.00	31.11	3.41	14.18	46.00	31.82	PASS
5	3.4305	10.69	12.21	22.90	56.00	33.10	2.14	12.83	46.00	33.17	PASS
6	9.3525	10.65	11.18	21.83	60.00	38.17	3.17	13.82	50.00	36.18	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dB μ V] + Factor(Lisn factor[dB] + cable loss[dB]). 3. Margin = Limit[dB μ V] Value[dB μ V]



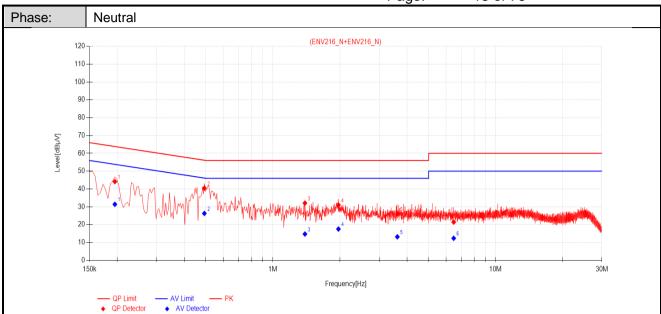
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Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1950	10.67	33.48	44.15	63.82	19.67	20.75	31.42	53.82	22.40	PASS
2	0.4920	10.81	29.63	40.44	56.13	15.69	15.50	26.31	46.13	19.82	PASS
3	1.3920	10.78	21.34	32.12	56.00	23.88	3.96	14.74	46.00	31.26	PASS
4	1.9680	10.78	20.26	31.04	56.00	24.96	6.77	17.55	46.00	28.45	PASS
5	3.6195	10.69	15.39	26.08	56.00	29.92	2.50	13.19	46.00	32.81	PASS
6	6.4815	10.55	10.90	21.45	60.00	38.55	1.83	12.38	50.00	37.62	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



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4.3 Duty Cycle

The detailed test data see: Appendix



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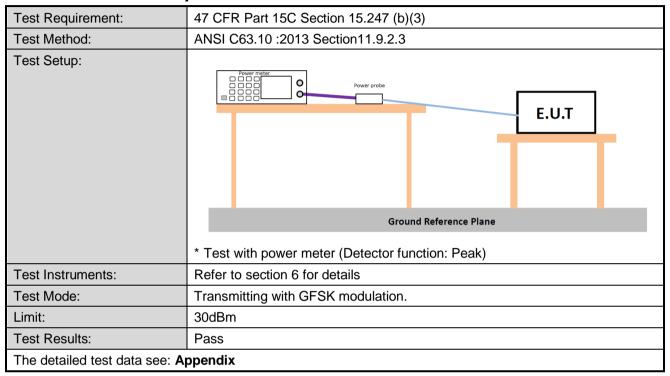
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4.4 Conducted Output Power





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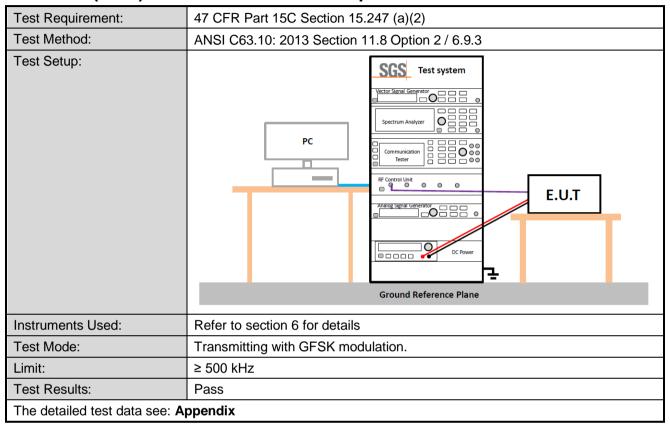
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth





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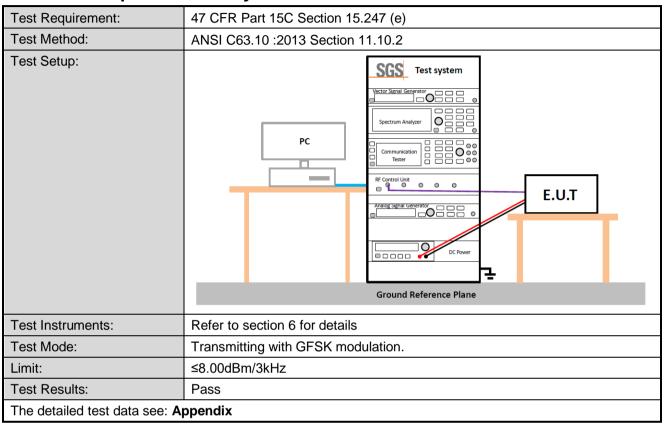
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4.6 Power Spectral Density





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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	PC Sectrum Analyzer O O O O O O O O O
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: A	ppendix



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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)					
Test Method:	ANSI C63.10: 2013 Section 11.11					
Test Setup:	PC Spectrum Analyzer O O O O O O O O O					
Instruments Used:	Refer to section 6 for details					
Test Mode:	Transmitting with GFSK modulation.					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test Results:	Pass					
The detailed test data see: A	ppendix					



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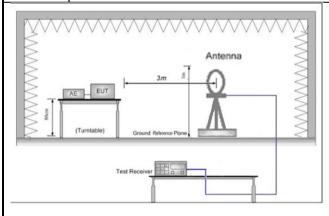
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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 :2013 Sec	ANSI C63.10 :2013 Section 11.12							
Test Site:	Measurement Distance:	3m (Semi-Anecho	ic Chamber)						
Test Frequency:	9kHz ~ 25GHz								
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)				
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300				
	0.490MHz-1.705MHz 24000/F(kHz) 30								
	1.705MHz-30MHz 30 30								
	30MHz-88MHz	100	40.0	Quasi-peak	3				
	88MHz-216MHz	150	43.5	Quasi-peak	3				
	216MHz-960MHz	200	46.0	Quasi-peak	3				
	960MHz-1GHz	500	54.0	Quasi-peak	3				
	Above 1GHz	500	54.0	Average	3				
	emissions is 20dB above applicable to the equipm	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.							

Test Setup:



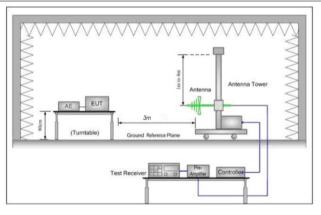


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz



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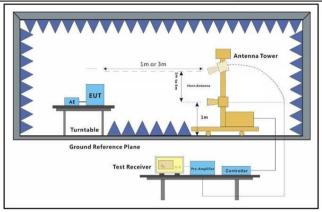


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.
- j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
- k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
- I. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.

Test Configuration:

Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold



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	ÿ
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	• VBW ≥ [3 *RBW]
	 Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
	Sweep time = auto
	Perform a trace average of at least 100 traces.
Exploratory Test	Transmitting with GFSK modulation.
Mode:	Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation.
	Pretest the EUT at Charge + Transmitting mode,
	For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data	see: Appendix



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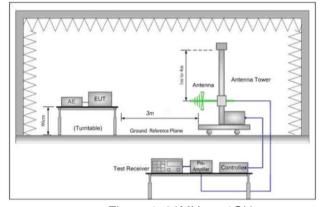
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2013 Section	11.12						
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Cham	ber)					
Limit:	Frequency	Limit (dBuV/m)	Remark					
	30MHz-88MHz	40.0	Quasi-peak					
	88MHz-216MHz	43.5	Quasi-peak					
	216MHz-960MHz	46.0	Quasi-peak					
	960MHz-1GHz	54.0	Quasi-peak					
	Above 4CH=	54.0	Average Value					
	Above 1GHz	74.0	Peak Value					

Test Setup:



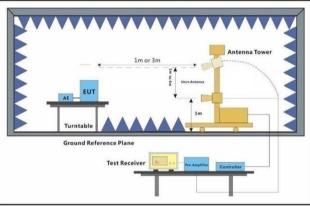


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Place a marker at the end of the restricted band closest to the transmit



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	frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and
	modulation for lowest and highest channel
	h. Test the EUT in the lowest channel, the Highest channel
	i. The radiation measurements are performed in X, Y, Z axis positioning for
	Transmitting mode, And found the X axis positioning which it is worse case.
	j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz
	• RBW = 120 kHz
	• VBW = 300 kHz
	Detector = Peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	• VBW ≥ [3 *RBW]
	• Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
	Sweep time = auto
	Perform a trace average of at least 100 traces.
Exploratory Test Mode:	Transmitting with GFSK modulation.
	Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation.
	Pretest the EUT at Charge + Transmitting mode.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see	e: Appendix



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5 Measurement Uncertainty (95% confidence levels, k=2)

	1110404101110111 0110011411111 (00 / 0 00 1111401100 10 10 10 10 10 10 10 10 10 10 10 1						
No.	Item	Measurement Uncertainty					
1	Total RF power, conducted	±0.54dB					
2	RF power density, conducted	±1.03dB					
3	Spurious emissions, conducted	±0.54dB					
4	Radio Frequency	±1.0 %					
5	Duty Cycle	±0.37%					
6	Occupied Bandwidth	±1.0 %					
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)					
		± 3.13dB (9k -30MHz)					
0	Radiated Emission	± 4.80dB (30M -1GHz)					
8	Radiated Emission	± 4.80dB (1GHz to 18GHz)					
		± 4.80dB (Above 18GHz)					

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

	RF Test Equipment									
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)					
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07					
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15					
Signal Analyzer	ROHDE& SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16					
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR					
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27					
Wideband Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13					
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14					
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22					
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22					
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13					
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14					

CE Test System								
Test Equipment	Manufacturer Model No. Inventory No.		Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)				
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07			
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18			
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR			



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RSE Test System						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07	
Temperature and humidity meter	MingGao	TH101B SUWI-01-01-05		2022/02/16	2023/02/15	
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27	
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03	
				2022/11/23	2023/11/22	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15	
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13	
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13	
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13	
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18	
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09	
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR	



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.72	2401.66	2402.38	≥0.5	PASS
		2440	0.72	2439.66	2440.38	≥0.5	PASS
		2480	0.72	2479.67	2480.39	≥0.5	PASS
BLE_2M	Ant1	2402	1.12	2401.47	2402.59	≥0.5	PASS
		2440	1.13	2439.47	2440.60	≥0.5	PASS
		2480	1.12	2479.48	2480.60	≥0.5	PASS



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Test Graphs





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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
		2402	1.064	2401.496	2402.560	
BLE_1M	Ant1	2440	1.062	2439.501	2440.563	
		2480	1.061	2479.506	2480.566	Reporting
		2402	2.068	2401.000	2403.068	only
BLE_2M	Ant1	2440	2.067	2439.005	2441.072	
		2480	2.066	2479.009	2481.075	



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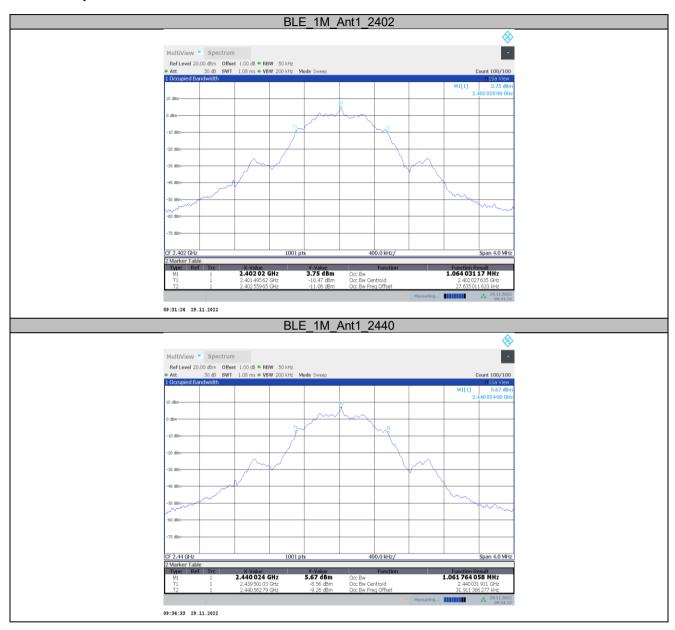


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Test Graphs





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Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
		2402	4.59	≤30	PASS
BLE_1M	Ant1	2440	6.11	≤30	PASS
		2480	5.61	≤30	PASS
		2402	4.62	≤30	PASS
BLE_2M	Ant1	2440	6.01	≤30	PASS
		2480	5.43	≤30	PASS



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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
		2402	-9.61	≤8.00	PASS
BLE_1M	Ant1	2440	-7.66	≤8.00	PASS
		2480	-8.87	≤8.00	PASS
		2402	-12.65	≤8.00	PASS
BLE_2M	Ant1	2440	-10.64	≤8.00	PASS
		2480	-11.83	≤8.00	PASS



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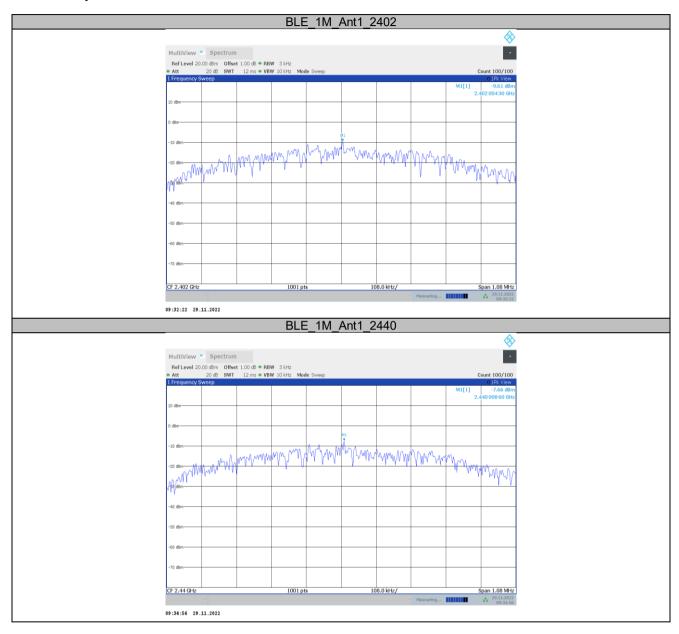
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Test Graphs





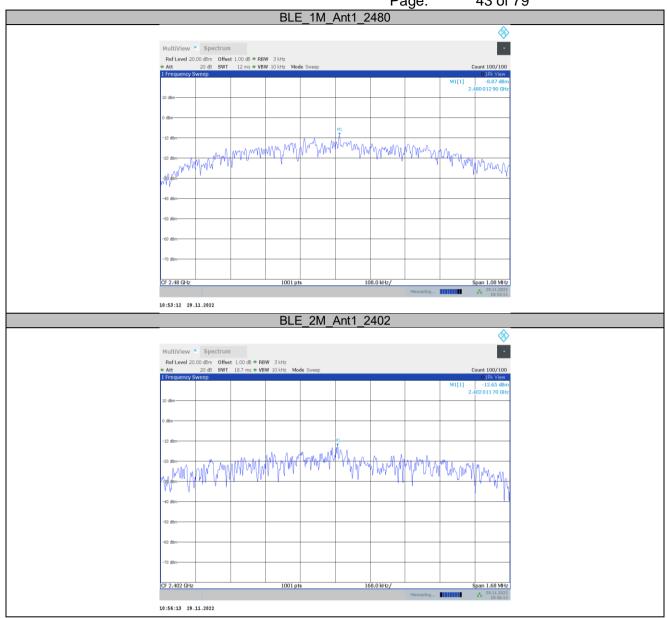
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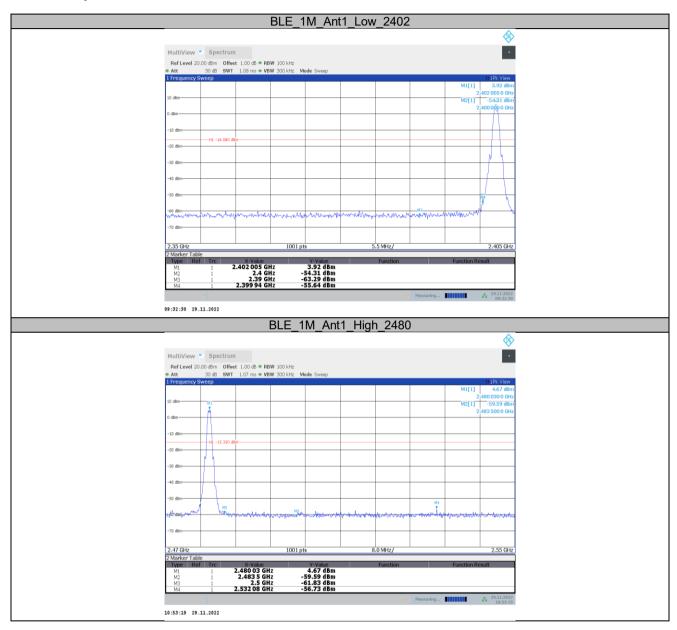


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Band edge measurements Test Graphs





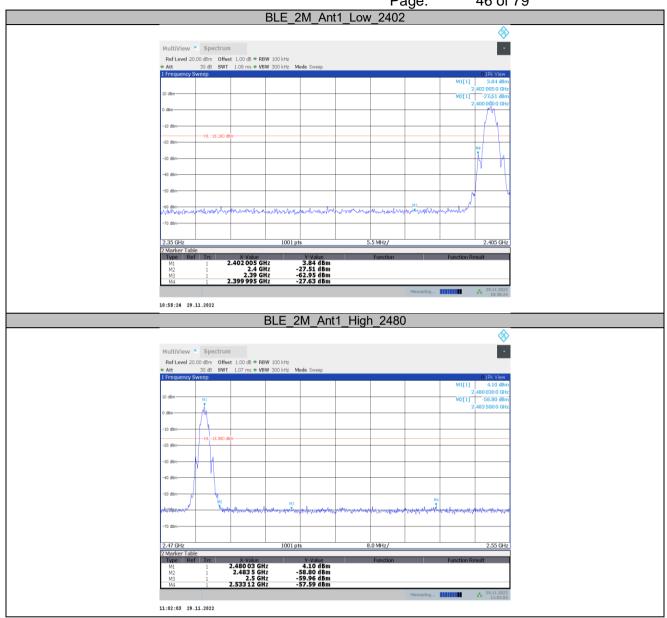
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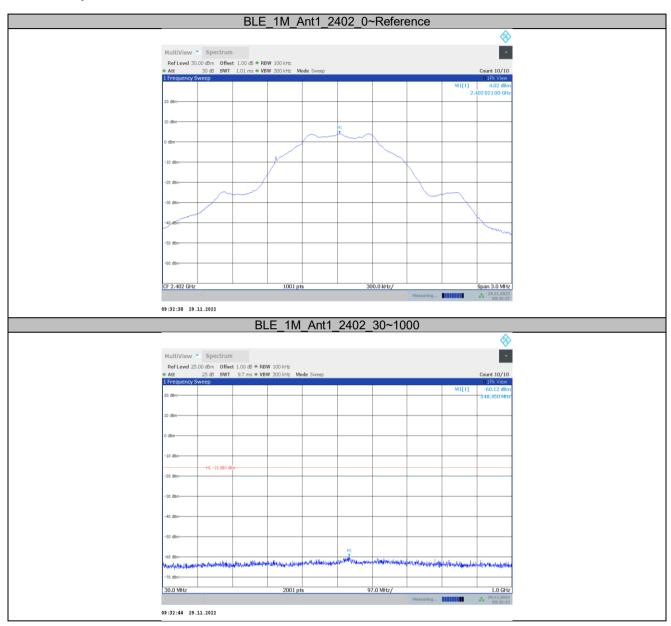


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Conducted Spurious Emission Test Graphs





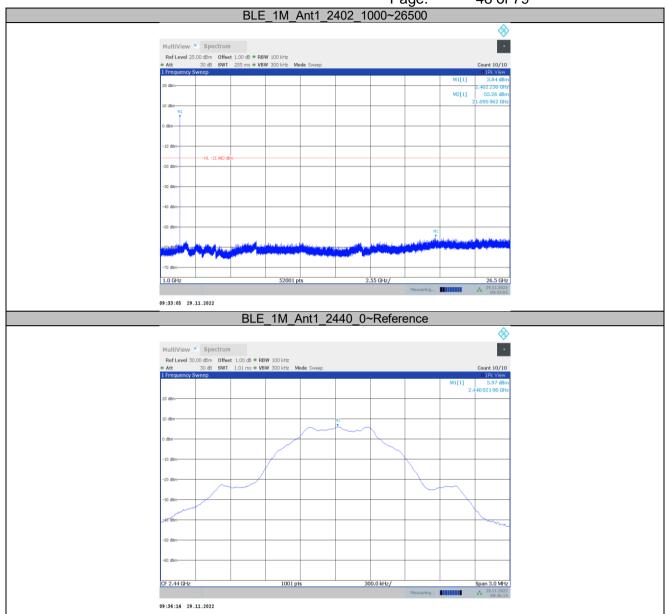
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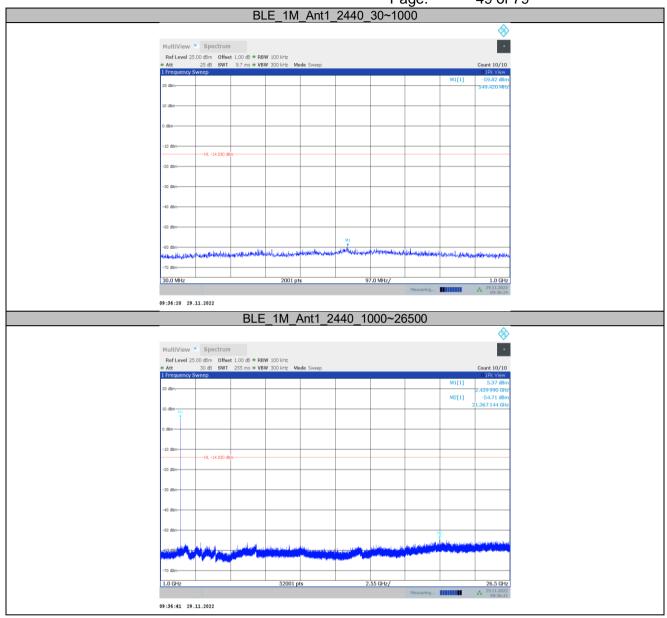
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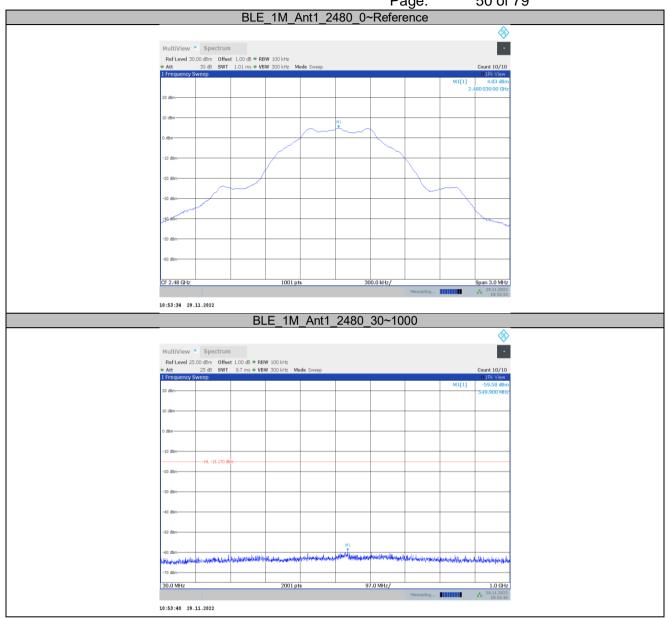
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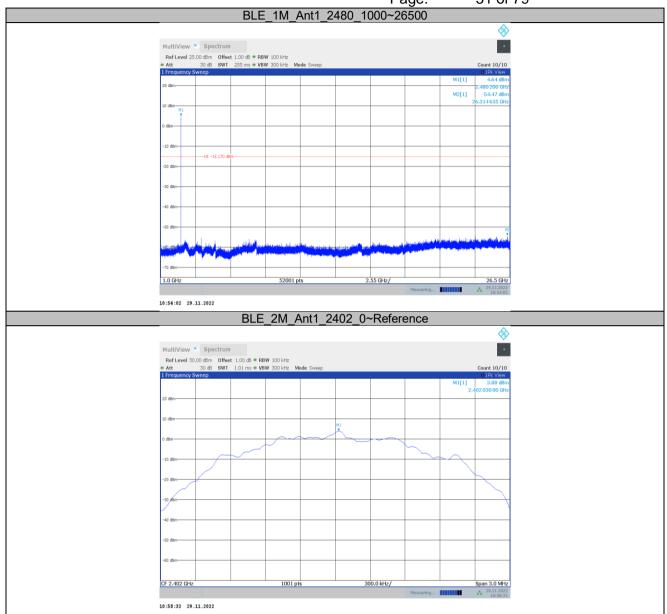
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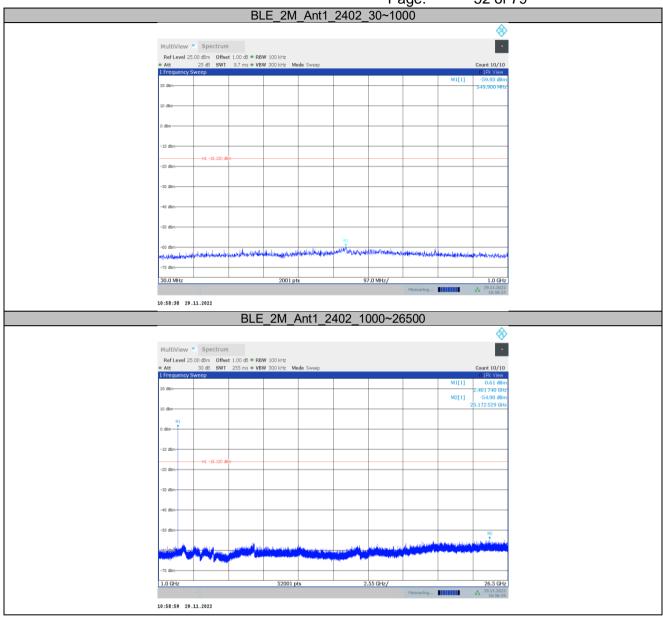
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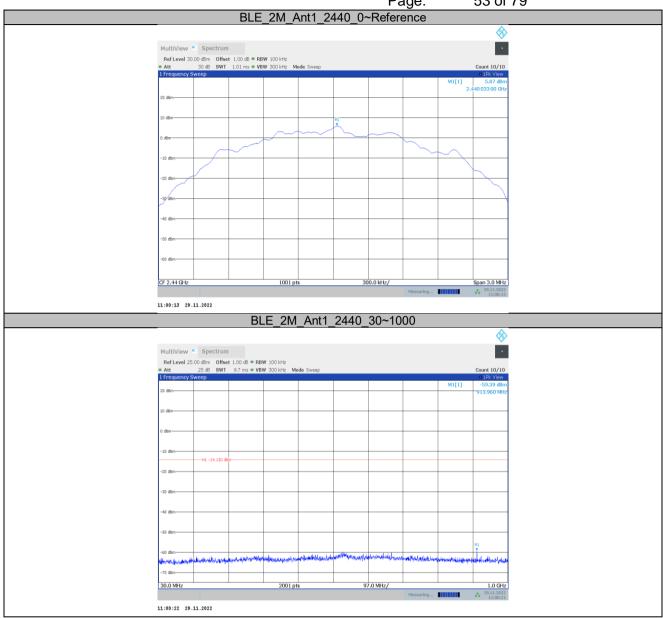
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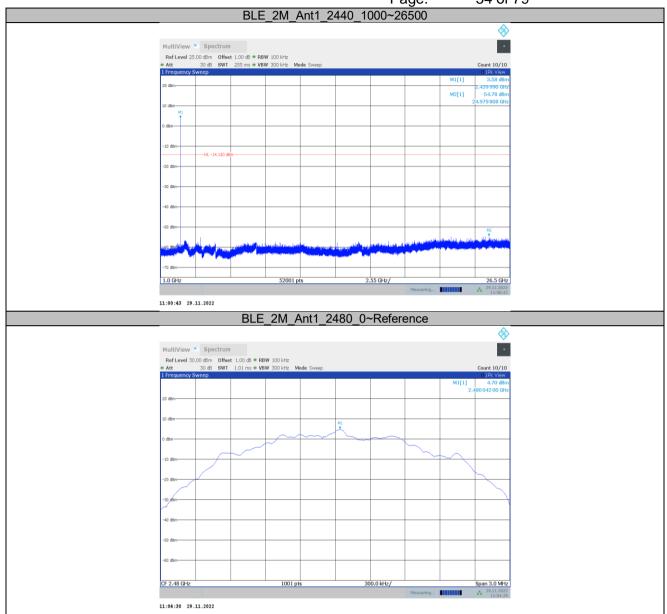
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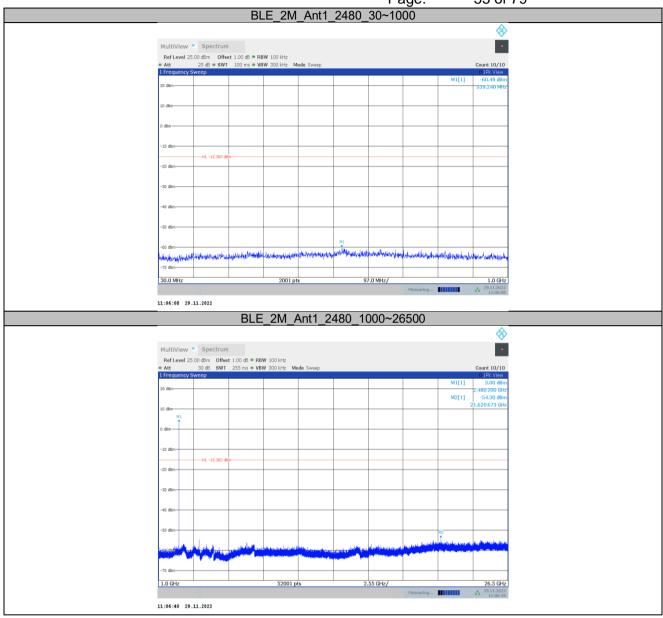
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2402	0.20	0.62	32.26	4.91



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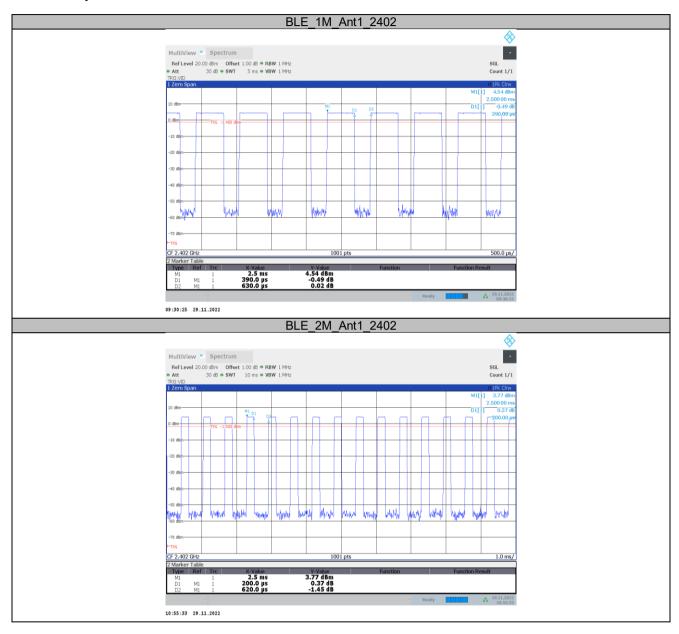


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Test Graphs





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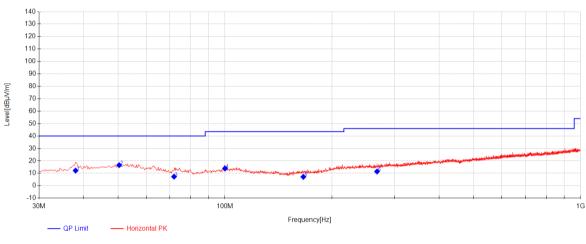


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Radiated Spurious Emissions Radiated emission below 1GHz

Worst case Mode: BLE 1M_Channel 39



QP Detector

Fina	Final Data List													
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	38.0168	28.86	-28.18	11.54	12.22	40.00	27.78	107	353	Horizontal				
2	50.4021	30.86	-28.00	13.71	16.57	40.00	23.43	190	279	Horizontal				
3	71.9108	26.76	-27.78	8.33	7.31	40.00	32.69	107	0	Horizontal				
4	100.0134	30.45	-27.36	10.78	13.87	43.50	29.63	118	116	Horizontal				
5	166.1109	25.88	-26.60	7.86	7.14	43.50	36.36	120	348	Horizontal				
6	267.6986	25.60	-26.41	12.26	11.45	46.00	34.55	204	2	Horizontal				



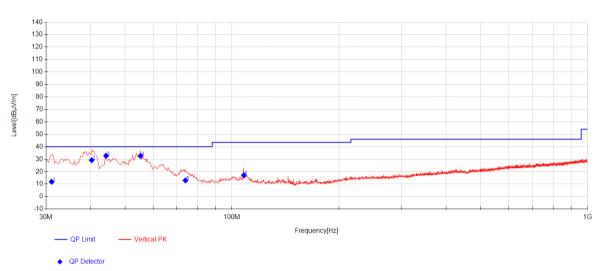
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Fina	Final Data List													
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	31.1145	30.03	-28.52	10.40	11.91	40.00	28.09	193	360	Vertical				
2	40.3134	45.09	-28.08	12.19	29.20	40.00	10.80	191	96	Vertical				
3	44.2652	47.88	-28.05	12.91	32.74	40.00	7.26	220	184	Vertical				
4	55.2831	47.88	-27.81	12.55	32.62	40.00	7.38	220	190	Vertical				
5	73.9769	32.76	-27.82	8.04	12.98	40.00	27.02	219	74	Vertical				
6	108.0048	33.75	-27.41	10.72	17.06	43.50	26.44	179	67	Vertical				

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Value = Reading(dB μ V) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Value($dB\mu V/m$)

2) All channels have been tested, but only the worst case data displayed in this report.



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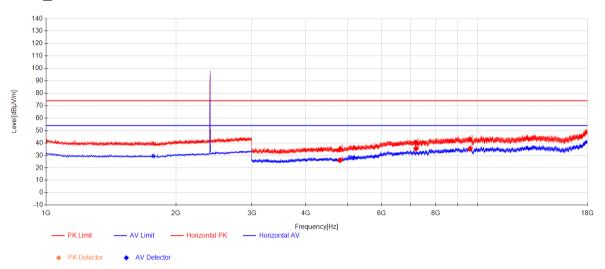


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Transmitter emission Above 1GHz

BLE 1M_Channel 00



Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4804	47.39	32.13	-44.46	35.06	74.00	38.94	255	111	Horizontal				
2	7206	46.38	36.32	-42.23	40.47	74.00	33.53	241	325	Horizontal				
3	9608	42.21	38.54	-38.05	42.70	74.00	31.30	122	111	Horizontal				
4	4804	38.42	32.13	-44.46	26.09	54.00	27.91	142	253	Horizontal				
5	7206	41.44	36.32	-42.23	35.53	54.00	18.47	142	111	Horizontal				
6	9608	34.85	38.54	-38.05	35.34	54.00	18.66	263	253	Horizontal				



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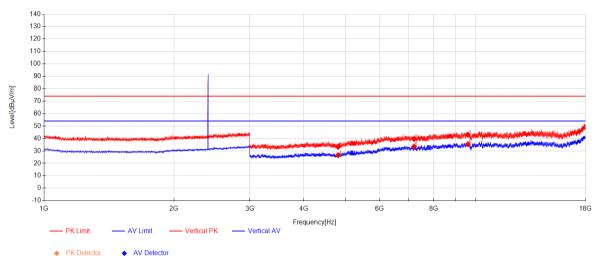
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BLE 1M_Channel 00



Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4804	45.55	32.13	-44.46	33.22	74.00	40.78	263	184	Vertical				
2	7206	45.52	36.32	-42.23	39.61	74.00	34.39	265	1	Vertical				
3	9608	42.51	38.54	-38.05	43.00	74.00	31.00	241	146	Vertical				
4	4804	38.86	32.13	-44.46	26.53	54.00	27.47	185	291	Vertical				
5	7206	39.45	36.32	-42.23	33.54	54.00	20.46	255	72	Vertical				
6	9608	34.86	38.54	-38.05	35.35	54.00	18.65	214	146	Vertical				

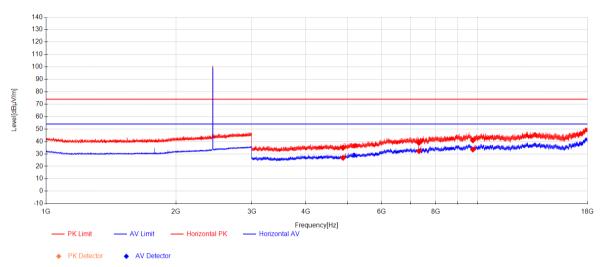




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BLE 1M_Channel 19



Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4880	47.45	32.31	-44.79	34.97	74.00	39.03	142	107	Horizontal				
2	7320	44.25	36.39	-41.80	38.84	74.00	35.16	296	325	Horizontal				
3	9760	39.91	38.52	-37.51	40.93	74.00	33.07	263	143	Horizontal				
4	4880	39.30	32.31	-44.79	26.82	54.00	27.18	254	289	Horizontal				
5	7320	37.66	36.39	-41.80	32.25	54.00	21.75	142	325	Horizontal				
6	9760	32.51	38.52	-37.51	33.53	54.00	20.47	213	289	Horizontal				

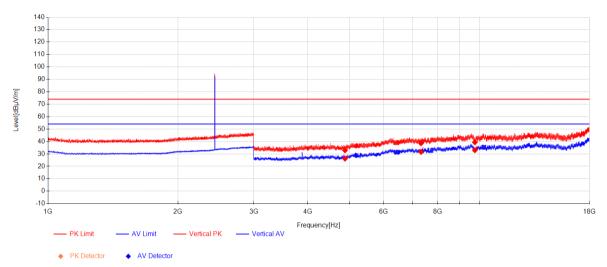




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BLE 1M_Channel 19



Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4880	45.35	32.31	-44.79	32.87	74.00	41.13	102	288	Vertical				
2	7320	43.92	36.39	-41.80	38.51	74.00	35.49	185	215	Vertical				
3	9760	38.29	38.52	-37.51	39.31	74.00	34.69	263	181	Vertical				
4	4880	38.65	32.31	-44.79	26.17	54.00	27.83	265	39	Vertical				
5	7320	36.99	36.39	-41.80	31.58	54.00	22.42	241	0	Vertical				
6	9760	31.93	38.52	-37.51	32.95	54.00	21.05	196	215	Vertical				

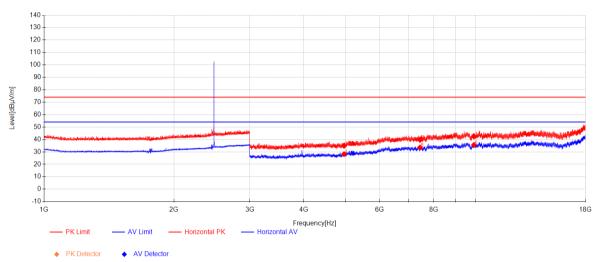




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BLE 1M_Channel 39



Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4960	47.29	32.50	-44.92	34.88	74.00	39.12	142	213	Horizontal				
2	7440	44.97	36.46	-41.83	39.61	74.00	34.39	285	0	Horizontal				
3	9920	41.19	38.51	-37.22	42.48	74.00	31.52	263	213	Horizontal				
4	4960	40.61	32.50	-44.92	28.20	54.00	25.80	265	104	Horizontal				
5	7440	38.93	36.46	-41.83	33.57	54.00	20.43	241	213	Horizontal				
6	9920	34.31	38.51	-37.22	35.60	54.00	18.40	122	325	Horizontal				

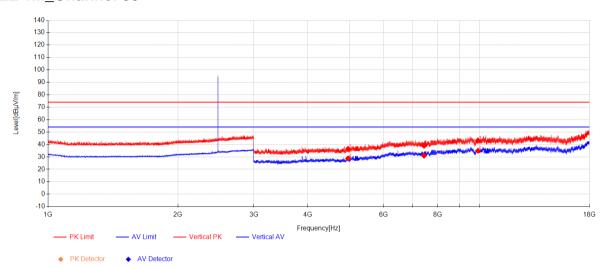




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BLE 1M_Channel 39



Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4960	48.90	32.50	-44.92	36.49	74.00	37.51	296	328	Vertical				
2	7440	44.28	36.46	-41.83	38.92	74.00	35.08	233	224	Vertical				
3	9920	41.97	38.51	-37.22	43.26	74.00	30.74	254	357	Vertical				
4	4960	41.24	32.50	-44.92	28.83	54.00	25.17	142	224	Vertical				
5	7440	36.34	36.46	-41.83	30.98	54.00	23.02	201	1	Vertical				
6	9920	33.63	38.51	-37.22	34.92	54.00	19.08	146	0	Vertical				



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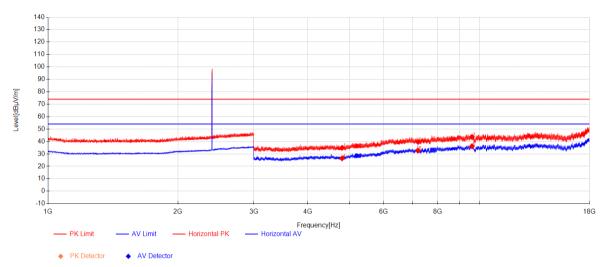
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BLE 2M_Channel 00



Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4804	47.19	32.13	-44.46	34.86	74.00	39.14	142	185	Horizontal				
2	7206	45.54	36.32	-42.23	39.63	74.00	34.37	285	113	Horizontal				
3	9608	43.11	38.54	-38.05	43.60	74.00	30.40	263	185	Horizontal				
4	4804	38.77	32.13	-44.46	26.44	54.00	27.56	201	113	Horizontal				
5	7206	38.62	36.32	-42.23	32.71	54.00	21.29	142	113	Horizontal				
6	9608	35.68	38.54	-38.05	36.17	54.00	17.83	286	113	Horizontal				



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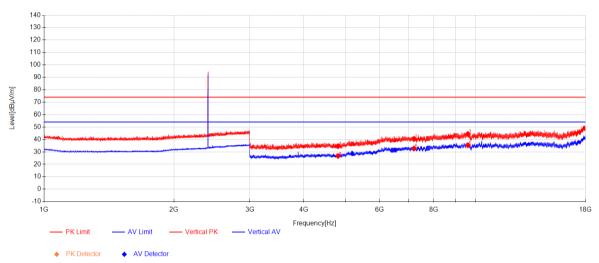
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BLE 2M_Channel 00



Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4804	46.93	32.13	-44.46	34.60	74.00	39.40	196	254	Vertical				
2	7206	46.39	36.32	-42.23	40.48	74.00	33.52	233	218	Vertical				
3	9608	44.00	38.54	-38.05	44.49	74.00	29.51	254	289	Vertical				
4	4804	39.05	32.13	-44.46	26.72	54.00	27.28	142	185	Vertical				
5	7206	38.71	36.32	-42.23	32.80	54.00	21.20	201	80	Vertical				
6	9608	34.84	38.54	-38.05	35.33	54.00	18.67	185	154	Vertical				



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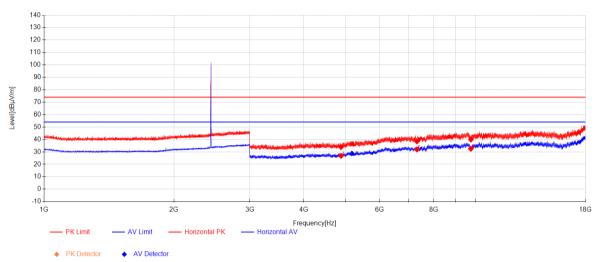
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BLE 2M_Channel 19



Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4880	46.38	32.31	-44.79	33.90	74.00	40.10	142	326	Horizontal				
2	7320	43.82	36.39	-41.80	38.41	74.00	35.59	285	357	Horizontal				
3	9760	38.94	38.52	-37.51	39.96	74.00	34.04	296	43	Horizontal				
4	4880	39.27	32.31	-44.79	26.79	54.00	27.21	254	146	Horizontal				
5	7320	37.37	36.39	-41.80	31.96	54.00	22.04	122	182	Horizontal				
6	9760	31.47	38.52	-37.51	32.49	54.00	21.51	284	252	Horizontal				



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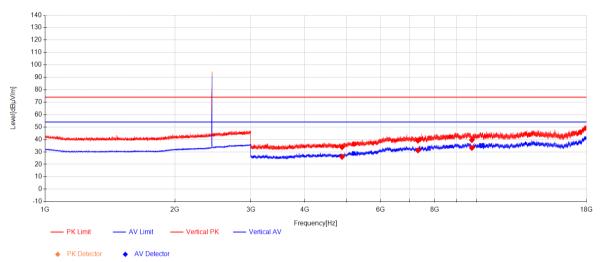
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BLE 2M_Channel 19



Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4880	46.28	32.31	-44.79	33.80	74.00	40.20	296	219	Vertical				
2	7320	44.46	36.39	-41.80	39.05	74.00	34.95	222	255	Vertical				
3	9760	38.54	38.52	-37.51	39.56	74.00	34.44	241	7	Vertical				
4	4880	38.45	32.31	-44.79	25.97	54.00	28.03	142	357	Vertical				
5	7320	36.60	36.39	-41.80	31.19	54.00	22.81	252	357	Vertical				
6	9760	32.18	38.52	-37.51	33.20	54.00	20.80	336	34	Vertical				



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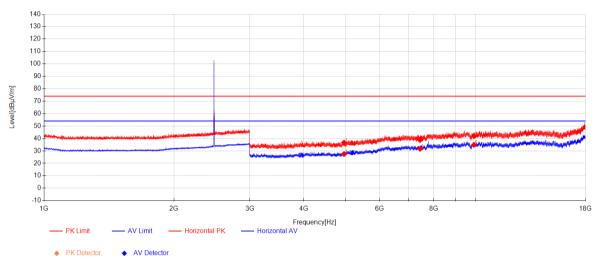
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BLE 2M_Channel 39



Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4960	49.08	32.50	-44.92	36.67	74.00	37.33	285	7	Horizontal				
2	7440	44.12	36.46	-41.83	38.76	74.00	35.24	263	289	Horizontal				
3	9920	40.59	38.51	-37.22	41.88	74.00	32.12	241	216	Horizontal				
4	4960	39.88	32.50	-44.92	27.47	54.00	26.53	142	110	Horizontal				
5	7440	37.03	36.46	-41.83	31.67	54.00	22.33	286	143	Horizontal				
6	9920	33.55	38.51	-37.22	34.84	54.00	19.16	224	74	Horizontal				



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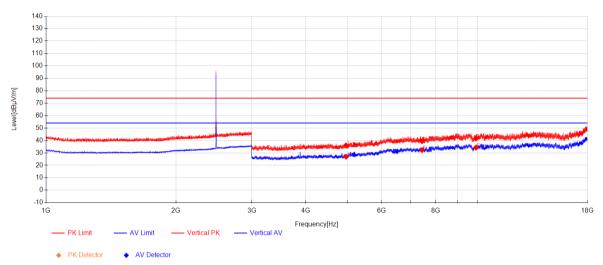
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BLE 2M_Channel 39



Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4960	48.43	32.50	-44.92	36.02	74.00	37.98	296	106	Vertical				
2	7440	44.74	36.46	-41.83	39.38	74.00	34.62	233	6	Vertical				
3	9920	40.22	38.51	-37.22	41.51	74.00	32.49	241	0	Vertical				
4	4960	39.37	32.50	-44.92	26.96	54.00	27.04	142	32	Vertical				
5	7440	37.64	36.46	-41.83	32.28	54.00	21.72	263	215	Vertical				
6	9920	32.94	38.51	-37.22	34.23	54.00	19.77	287	70	Vertical				

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)

2) All channels have been tested, but only the worst case data displayed in this report.



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215000 t (86–512) 62992980 215000 t (86–512) 62992980

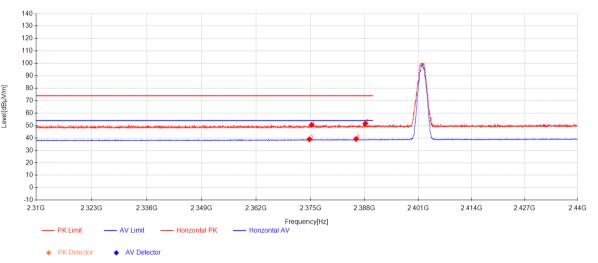


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Restricted bands around fundamental frequency

BLE 1M_Channel 00



Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2375.26	47.37	27.65	-24.45	50.57	74.00	23.43	124	36	Horizontal				
2	2388.195	48.31	27.68	-24.43	51.56	74.00	22.44	124	36	Horizontal				
3	2374.74	35.74	27.65	-24.46	38.93	54.00	15.07	124	36	Horizontal				
4	2385.9525	35.92	27.67	-24.43	39.16	54.00	14.84	124	36	Horizontal				



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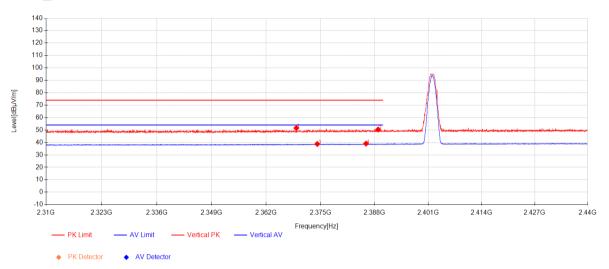
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BLE 1M_Channel 00



Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.215	48.44	27.64	-24.47	51.61	74.00	22.39	246	122	Vertical
2	2388.8775	47.22	27.68	-24.42	50.47	74.00	23.53	246	122	Vertical
3	2374.22	35.58	27.65	-24.46	38.77	54.00	15.23	246	122	Vertical
4	2385.9525	35.80	27.67	-24.43	39.04	54.00	14.96	246	122	Vertical



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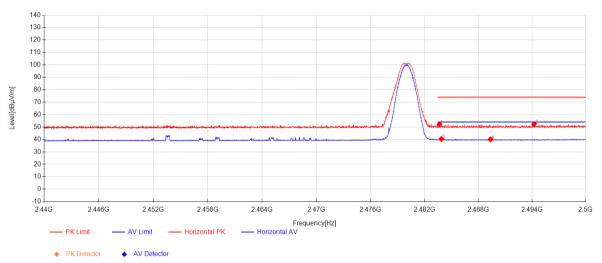
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Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2483.665	48.22	27.87	-23.96	52.13	74.00	21.87	324	133	Horizontal				
2	2494.225	48.34	27.89	-23.90	52.33	74.00	21.67	324	133	Horizontal				
3	2483.875	36.43	27.87	-23.96	40.34	54.00	13.66	324	133	Horizontal				
4	2489.365	36.12	27.88	-23.93	40.07	54.00	13.93	324	133	Horizontal				

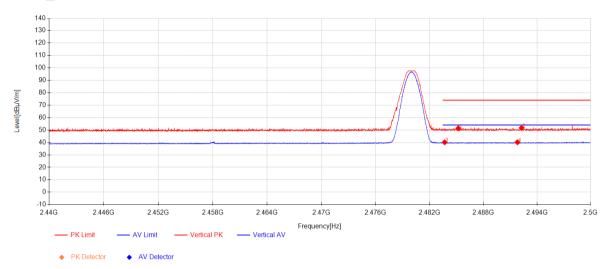




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Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2485.21	47.49	27.87	-23.95	51.41	74.00	22.59	149	221	Vertical
2	2492.275	47.69	27.88	-23.91	51.66	74.00	22.34	149	221	Vertical
3	2483.695	36.24	27.87	-23.96	40.15	54.00	13.85	149	221	Vertical
4	2491.81	36.18	27.88	-23.91	40.15	54.00	13.85	149	221	Vertical

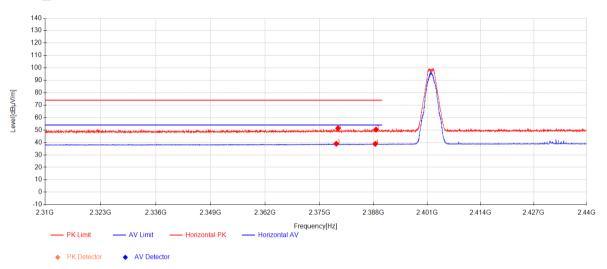




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BLE 2M_Channel 00



Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	2379.4525	48.23	27.66	-24.45	51.44	74.00	22.56	325	172	Horizontal				
2	2388.6175	47.16	27.68	-24.43	50.41	74.00	23.59	325	172	Horizontal				
3	2379.03	35.78	27.66	-24.45	38.99	54.00	15.01	325	172	Horizontal				
4	2388.4225	35.60	27.68	-24.43	38.85	54.00	15.15	325	172	Horizontal				

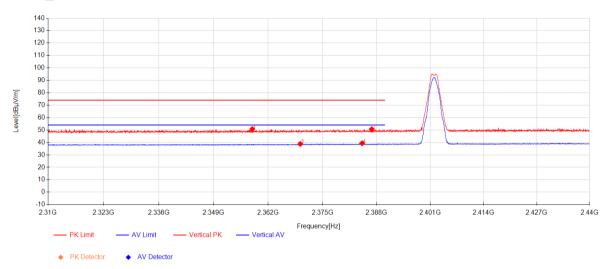




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BLE 2M_Channel 00



Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2358.1975	47.69	27.62	-24.49	50.81	74.00	23.19	142	265	Vertical
2	2386.83	47.42	27.67	-24.43	50.66	74.00	23.34	142	265	Vertical
3	2369.67	35.65	27.64	-24.47	38.82	54.00	15.18	142	265	Vertical
4	2384.5225	36.14	27.67	-24.43	39.37	54.00	14.63	142	265	Vertical

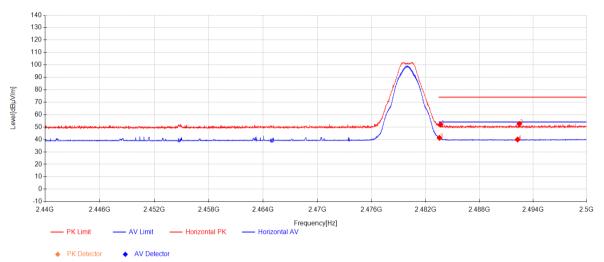




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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2483.68	48.05	27.87	-23.96	51.96	74.00	22.04	241	142	Horizontal			
2	2492.47	48.53	27.88	-23.91	52.51	74.00	21.49	241	142	Horizontal			
3	2483.56	37.40	27.87	-23.96	41.31	54.00	12.69	241	142	Horizontal			
4	2492.275	35.97	27.88	-23.91	39.94	54.00	14.06	241	142	Horizontal			



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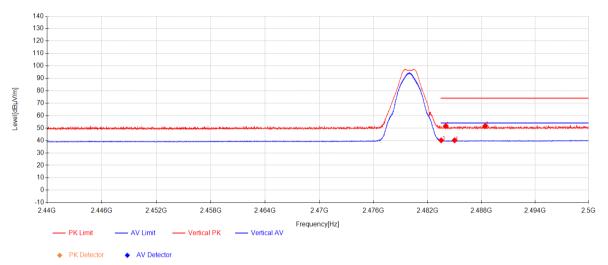
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.025	47.61	27.87	-23.95	51.52	74.00	22.48	328	147	Vertical
2	2488.435	47.69	27.88	-23.93	51.64	74.00	22.36	328	147	Vertical
3	2483.53	36.19	27.87	-23.96	40.10	54.00	13.90	328	147	Vertical
4	2485.015	36.20	27.87	-23.95	40.12	54.00	13.88	328	147	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)

---End of Report---



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