

FCC Test Report

FCC ID : 2AAS9-GYGKZNM
Equipment : GAMEGOLF KZN
Model No. : GYGKZN-M
Brand Name : GAME YOUR GAME
Applicant : BROWAN COMMUNICATIONS
INCORPORATION
Address : No.15-1, Zhonghua Rd., Hsinchu Industrial
Park, Hukou Hsinchu Hsien Taiwan 303
Standard : 47 CFR FCC Part 15.247
Received Date : Apr. 27, 2022
Tested Date : Oct. 14 ~ Oct. 27, 2022

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

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Appendix A. 6dB and Occupied Bandwidth

Appendix B. Conducted Output Power

Appendix C. Power Spectral Density

Appendix D. Unwanted Emissions into Restricted Frequency Bands

Appendix E. Emissions in Non-Restricted Frequency Bands

Appendix F. AC Power Line Conducted Emissions

Release Record

Report No.	Version	Description	Issued Date
FR242701AE	Rev. 01	Initial issue	Nov. 28, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 4.549MHz 39.38 (Margin -16.62dB) - QP	Pass
15.247(d) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 30.56MHz 29.12 (Margin -10.88dB) - PK	Pass
15.247(b)(3)	Conducted Output Power	Power [dBm]: 7.52	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information				
Frequency Range (MHz)	Bluetooth Mode	Ch. Freq. (MHz)	Channel Number	Data Rate
2400-2483.5	LE	2402-2480	0-39 [40]	125 kbps
				500 kbps
				1 Mbps
				2 Mbps
Note: Bluetooth LE (Low energy) uses GFSK modulation.				

1.1.2 Antenna Details

Ant. No.	Type	Connector	Gain (dBi)
1	Chip	No	1.37

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.7 Vdc from battery 5 Vdc from host
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1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	Li-ion battery	Brand: Shenzhen Data Power Technology Ltd Model: DTP803030 Power Rating: 3.7V, 700mAm, 2.59Wh
2	USB charging cable	0.25m non-shielded without core

1.1.5 Channel List

Frequency band (MHz)				2400~2483.5			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
37	2402	9	2422	18	2442	28	2462
0	2404	10	2424	19	2444	29	2464
1	2406	38	2426	20	2446	30	2466
2	2408	11	2428	21	2448	31	2468
3	2410	12	2430	22	2450	32	2470
4	2412	13	2432	23	2452	33	2472
5	2414	14	2434	24	2454	34	2474
6	2416	15	2436	25	2456	35	2476
7	2418	16	2438	26	2458	36	2478
8	2420	17	2440	27	2460	39	2480

1.1.6 Test Tool and Duty Cycle

Test Tool	nRF Connect, Version: v3.4.1	
Modulation Mode	Duty Cycle Of Test Signal (%)	Duty Factor (dB)
BT-LE(125kbps)	98.02%	0.09
BT-LE(500kbps)	92.49%	0.34
BT-LE(1Mbps)	64.58%	1.90
BT-LE(2Mbps)	34.72%	4.59

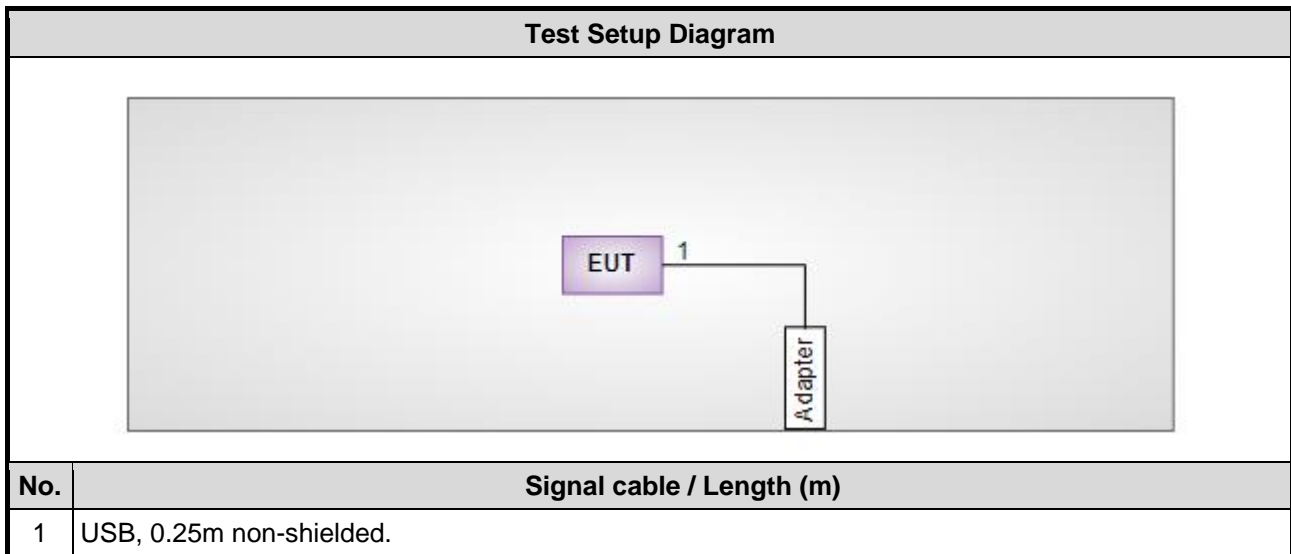
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)		
	2402	2440	2480
BT-LE(125kbps)	8	8	8
BT-LE(500kbps)	8	8	8
BT-LE(1Mbps)	8	8	8
BT-LE(2Mbps)	8	8	8

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Adapter	samsung	ETA-U90JWS	---	---
2	Notebook	DELL	Latitude 5400	---	---

1.3 Test Setup Chart



Note: The support notebook was disconnected from EUT and was removed from test table after sending command from notebook to control EUT to transmit continuously.

1.4 Test Equipment List and Calibration Data

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Oct. 14, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 16, 2022	Feb. 15, 2023
LISN	R&S	ENV216	101579	Apr. 21, 2022	Apr. 20, 2023
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan .07, 2022	Jan .06, 2023
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	01	May 10, 2022	May 09, 2023
Measurement Software	AUDIX	e3	6.120210k	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Oct. 24, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 03, 2022	Aug. 02, 2023
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 03, 2021	Dec. 02, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 04, 2021	Nov. 03, 2022
Preamplifier	EMC	EMC02325	980225	Jun. 28, 2022	Jun. 27, 2023
Preamplifier	EMC	EMC118A45SE	980898	Jul. 16, 2022	Jul. 15, 2023
Preamplifier	EMC	EMC184045B	980192	Jul. 08, 2022	Jul. 07, 2023
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 04, 2022	Oct. 03, 2023
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 04, 2022	Oct. 03, 2023
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 04, 2022	Oct. 03, 2023
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 04, 2022	Oct. 03, 2023
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 04, 2022	Oct. 03, 2023
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 04, 2022	Oct. 03, 2023
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Oct. 27, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2022	Apr. 17, 2023
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
Measurement Software	Sporton	SENSE-15247_FS	V5.10.7.11	NA	NA

Note: Calibration Interval of instruments listed above is one year.

1.5 Test Standards

47 CFR FCC Part 15.247

ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Unwanted Emission ≤ 1 GHz	± 3.41 dB
Unwanted Emission > 1 GHz	± 4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Mode	Test Frequency (MHz)	Test Configuration
AC Power Line Conducted Emissions	BT-LE(1Mbps)	2402	---
Unwanted Emissions ≤ 1GHz	BT-LE(1Mbps)	2402	---
Unwanted Emissions > 1GHz	BT-LE(1Mbps) BT-LE(2Mbps)	2402, 2440, 2480	---
Conducted Output Power 6dB bandwidth Power spectral density	BT-LE(125kbps) BT-LE(500kbps) BT-LE(1Mbps) BT-LE(2Mbps)	2402, 2440, 2480	---

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.

3 Transmitter Test Results

3.1 6dB and Occupied Bandwidth

3.1.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.1.2 Test Procedures

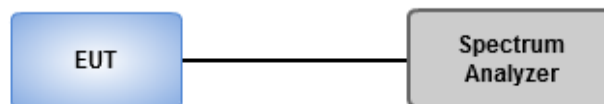
6dB Bandwidth

1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Sample, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	23°C / 64%	Tested By	Brad Wu
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Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

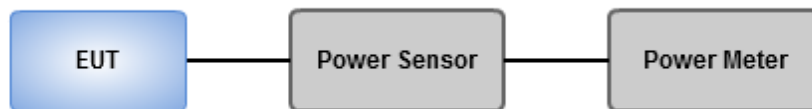
Conducted power shall not exceed 1Watt.

Antenna gain $\leq 6\text{dBi}$, no any corresponding reduction is in output power limit.

3.2.2 Test Procedures

A broadband RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	23°C / 64%	Tested By	Brad Wu
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Refer to Appendix B.

3.3 Power Spectral Density

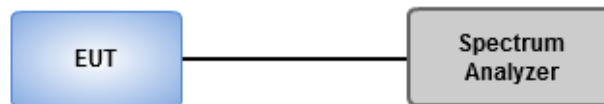
3.3.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.3.2 Test Procedures

1. Set the RBW = 3 kHz, VBW = 10 kHz.
2. Detector = Peak, Sweep time = auto couple.
3. Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	23°C / 64%	Tested By	Brad Wu
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Refer to Appendix C.

3.4 Unwanted Emissions in Restricted Frequency Bands

3.4.1 Limit of Unwanted Emissions in Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.4.2 Test Procedures

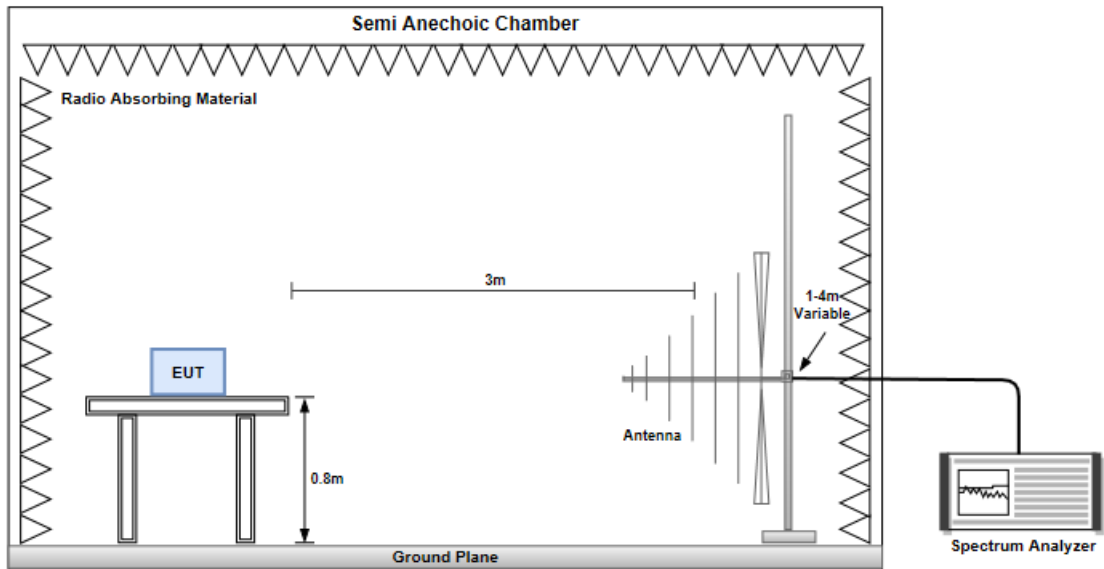
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

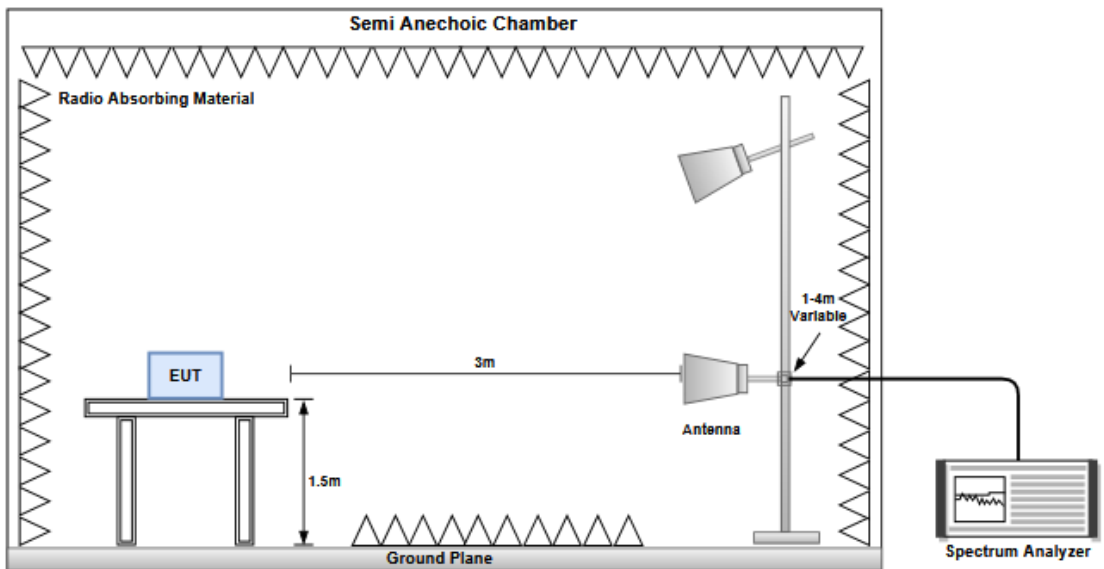
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.4.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.4.4 Test Results

Refer to Appendix D.

3.5 Emissions in non-restricted Frequency Bands

3.5.1 Emissions in non-restricted frequency bands limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.5.2 Test Procedures

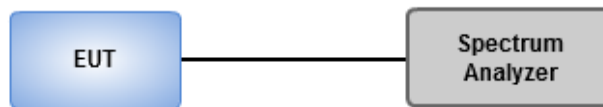
Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	23°C / 64%	Tested By	Brad Wu
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Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

3.6.1 Limit of AC Power Line Conducted Emissions

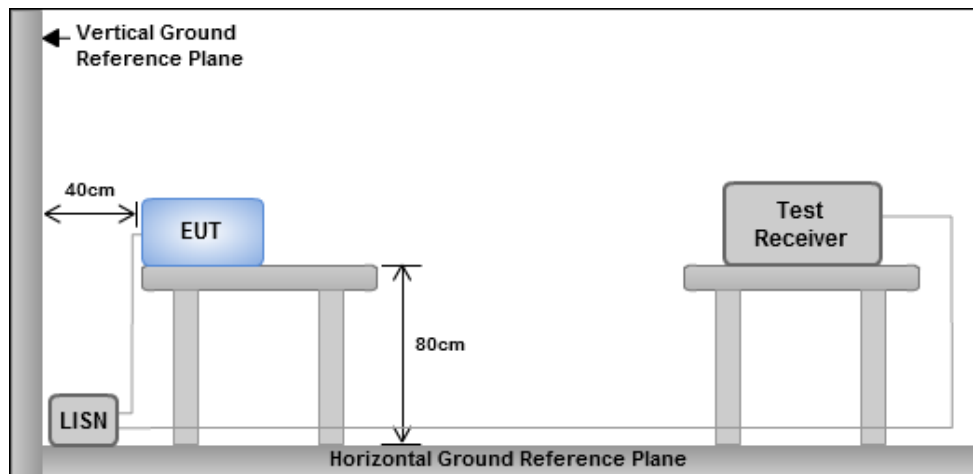
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.6.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

3.6.3 Test Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.6.4 Test Results

Refer to Appendix F.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
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No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

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Email: ICC_Service@icertifi.com.tw

==END==



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(125kbps)	612.319k	1.078M	1M08F1D	608.696k	1.075M
BT-LE(500kbps)	677.536k	1.042M	1M04F1D	666.667k	1.042M
BT-LE(1Mbps)	688.406k	1.038M	1M04F1D	666.667k	1.035M
BT-LE(2Mbps)	1.138M	2.041M	2M04F1D	1.087M	2.033M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

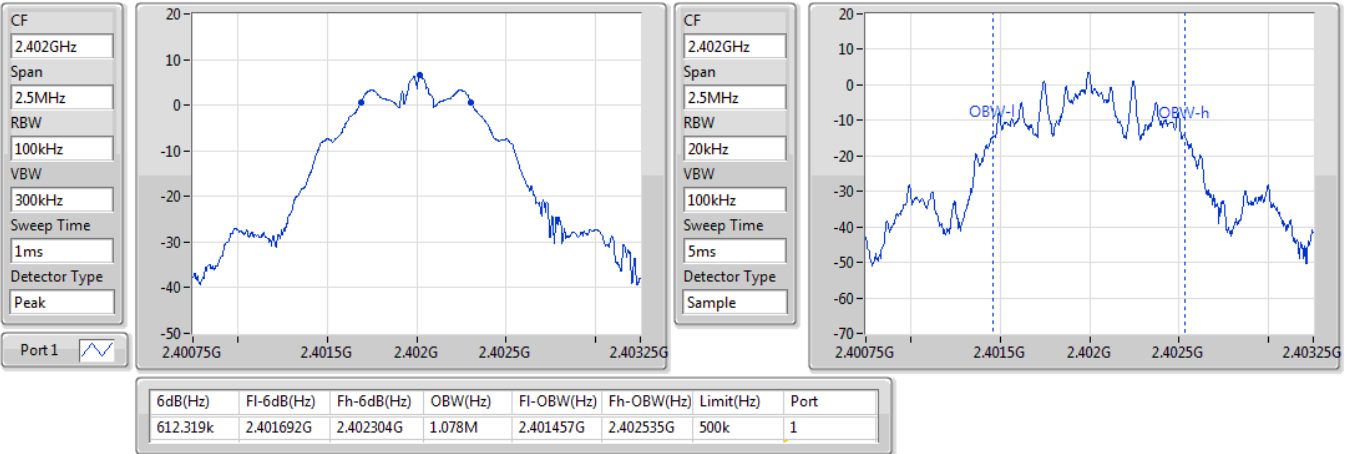
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	500k	612.319k	1.078M
2440MHz	Pass	500k	612.319k	1.075M
2480MHz	Pass	500k	608.696k	1.075M
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	500k	673.913k	1.042M
2440MHz	Pass	500k	677.536k	1.042M
2480MHz	Pass	500k	666.667k	1.042M
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	666.667k	1.035M
2440MHz	Pass	500k	677.536k	1.038M
2480MHz	Pass	500k	688.406k	1.038M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.087M	2.033M
2440MHz	Pass	500k	1.138M	2.033M
2480MHz	Pass	500k	1.138M	2.041M

Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

BT-LE(125kbps)

EBW-DTS

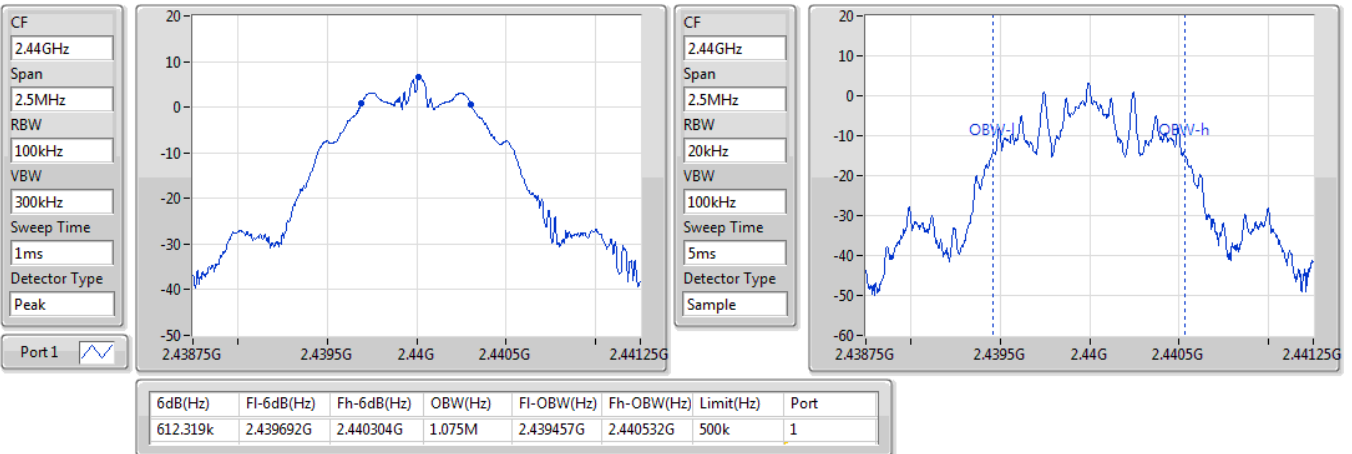
2402MHz



BT-LE(125kbps)

EBW-DTS

2440MHz

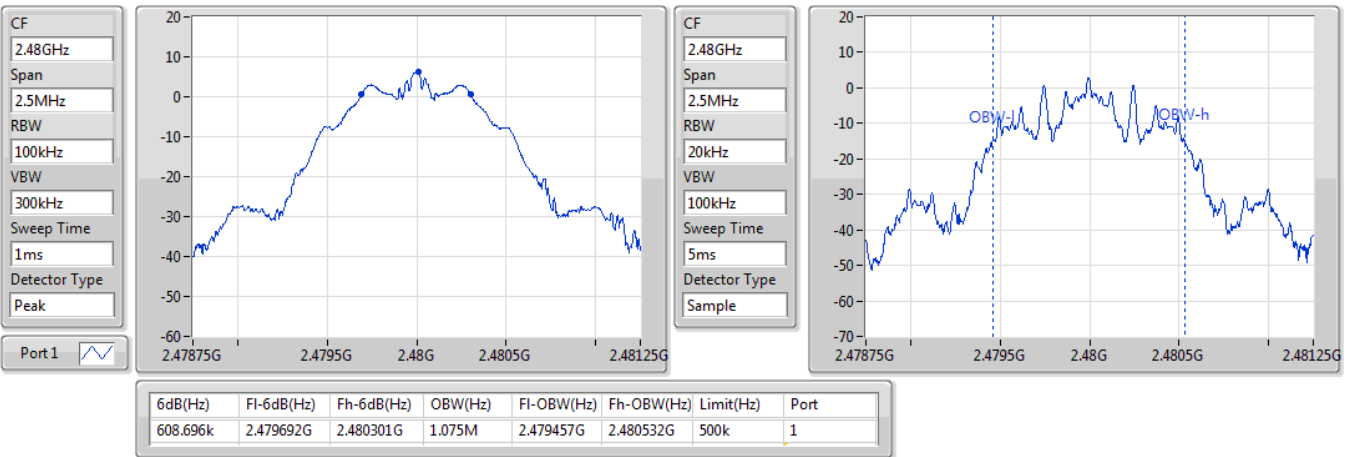




BT-LE(125kbps)

EBW-DTS

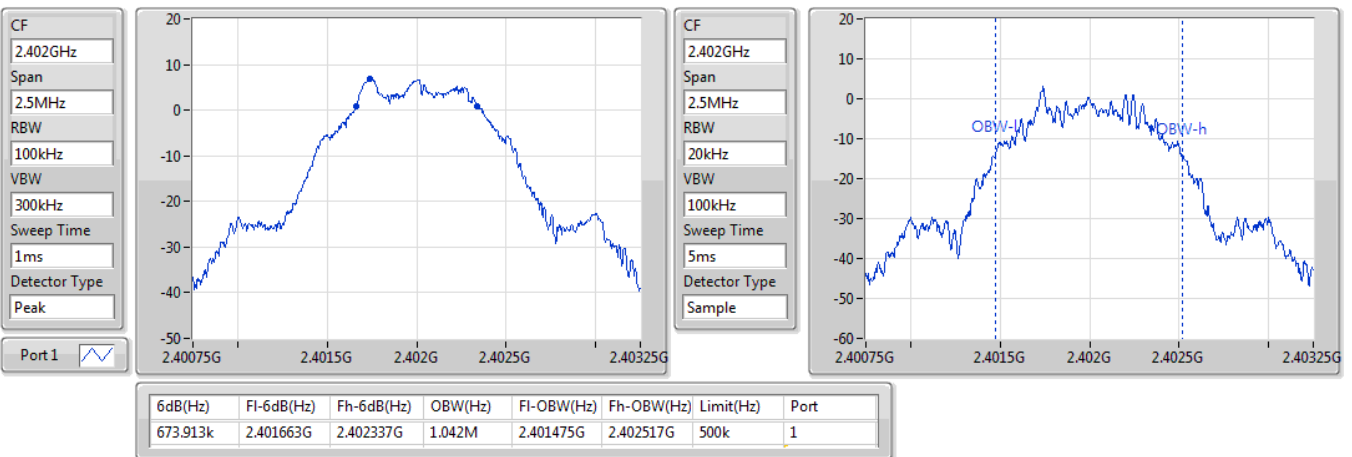
2480MHz



BT-LE(500kbps)

EBW-DTS

2402MHz

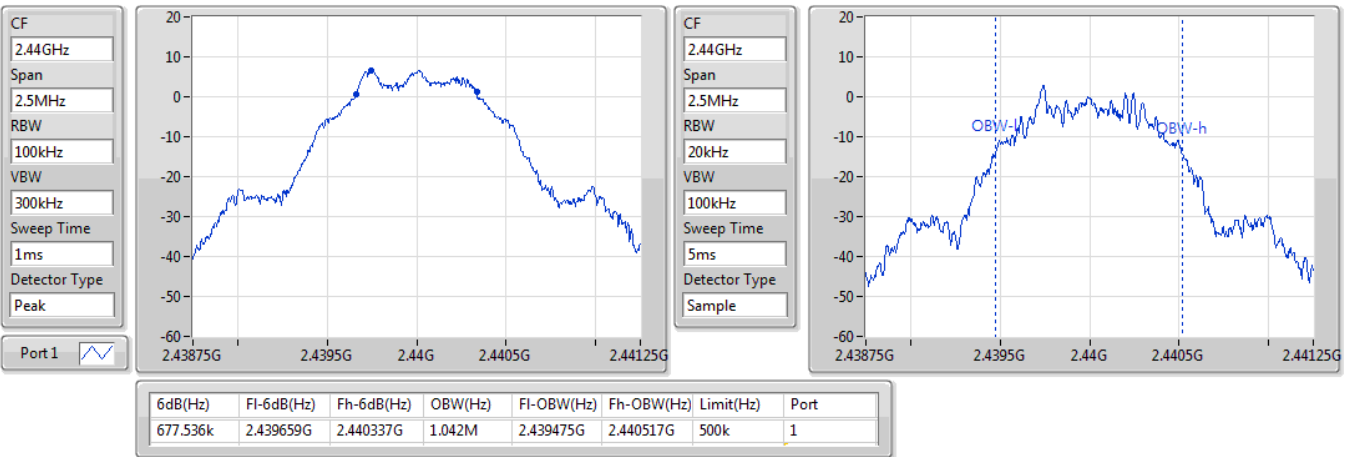




BT-LE(500kbps)

EBW-DTS

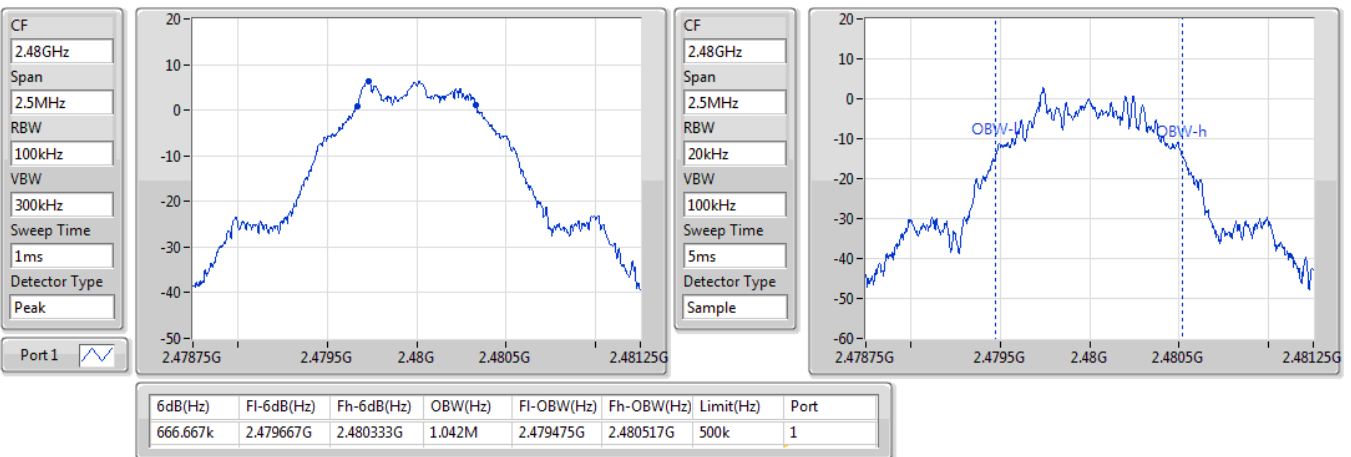
2440MHz

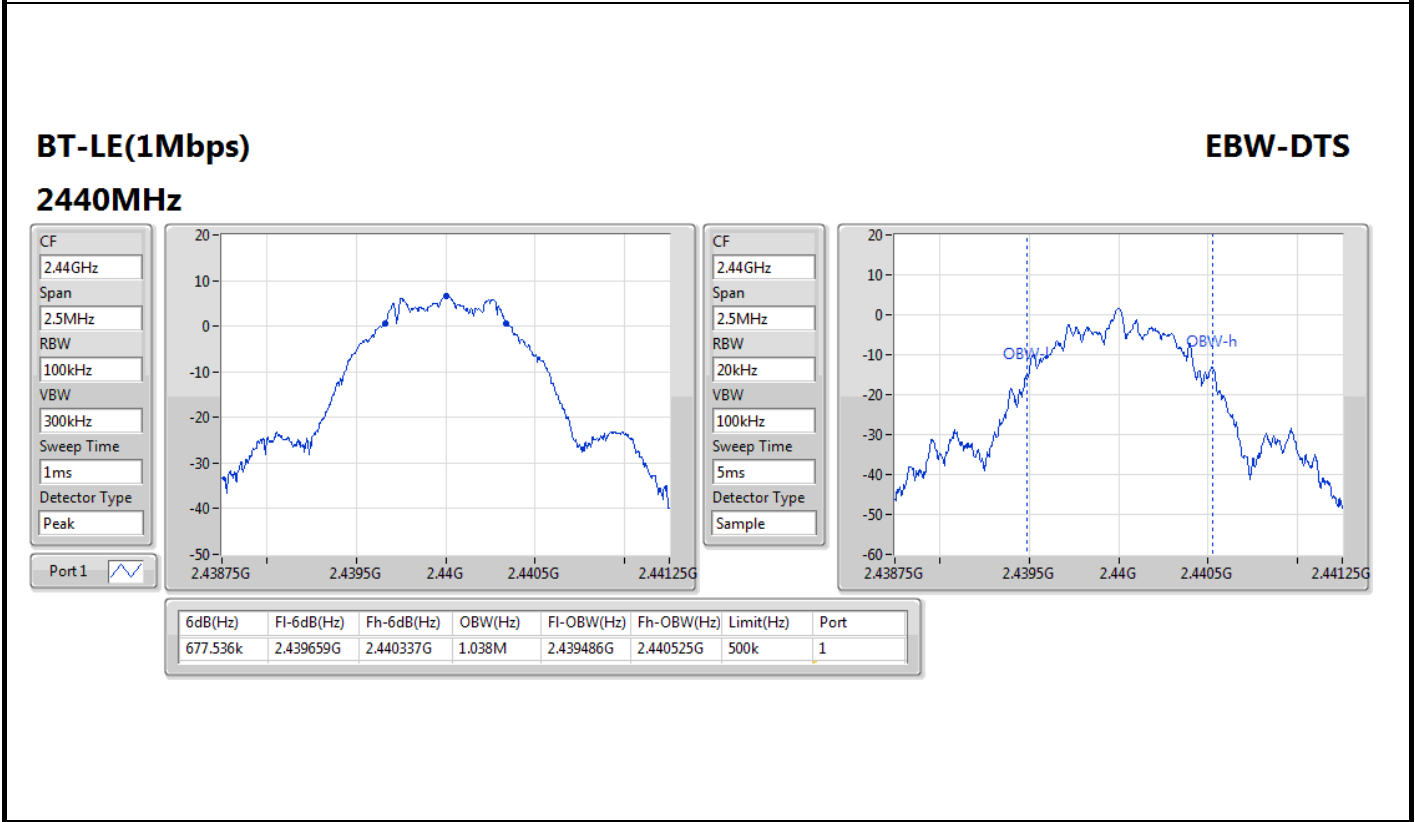
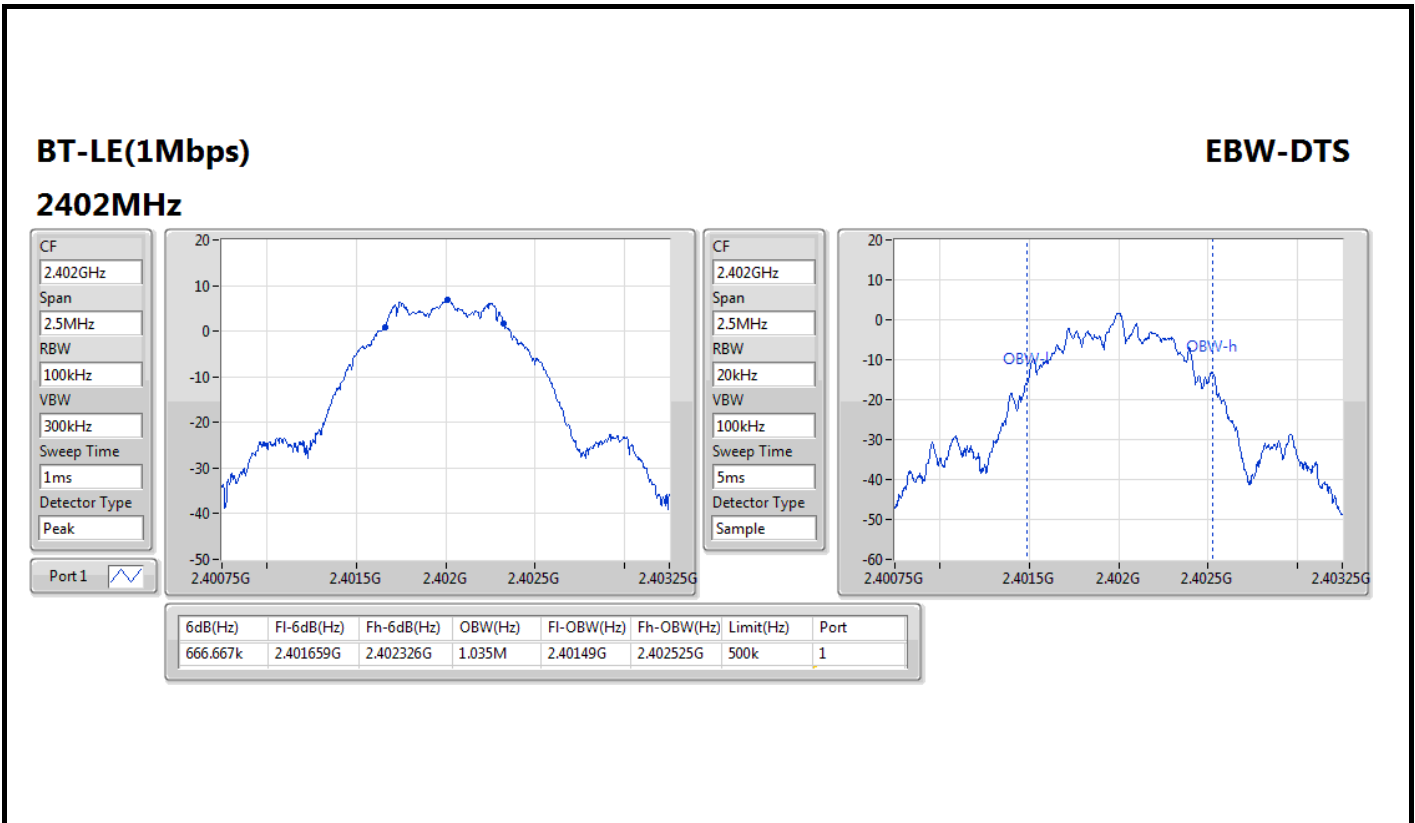


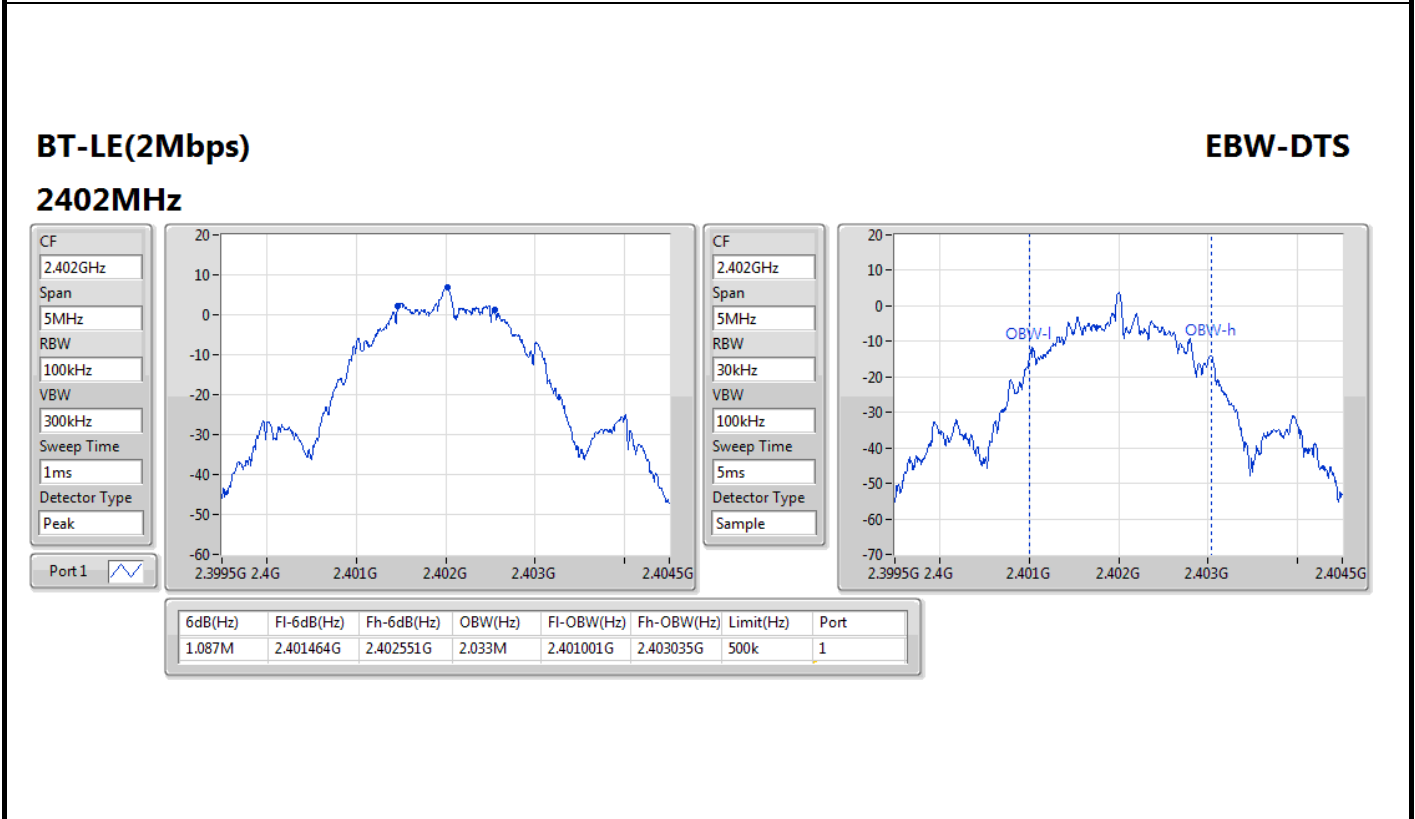
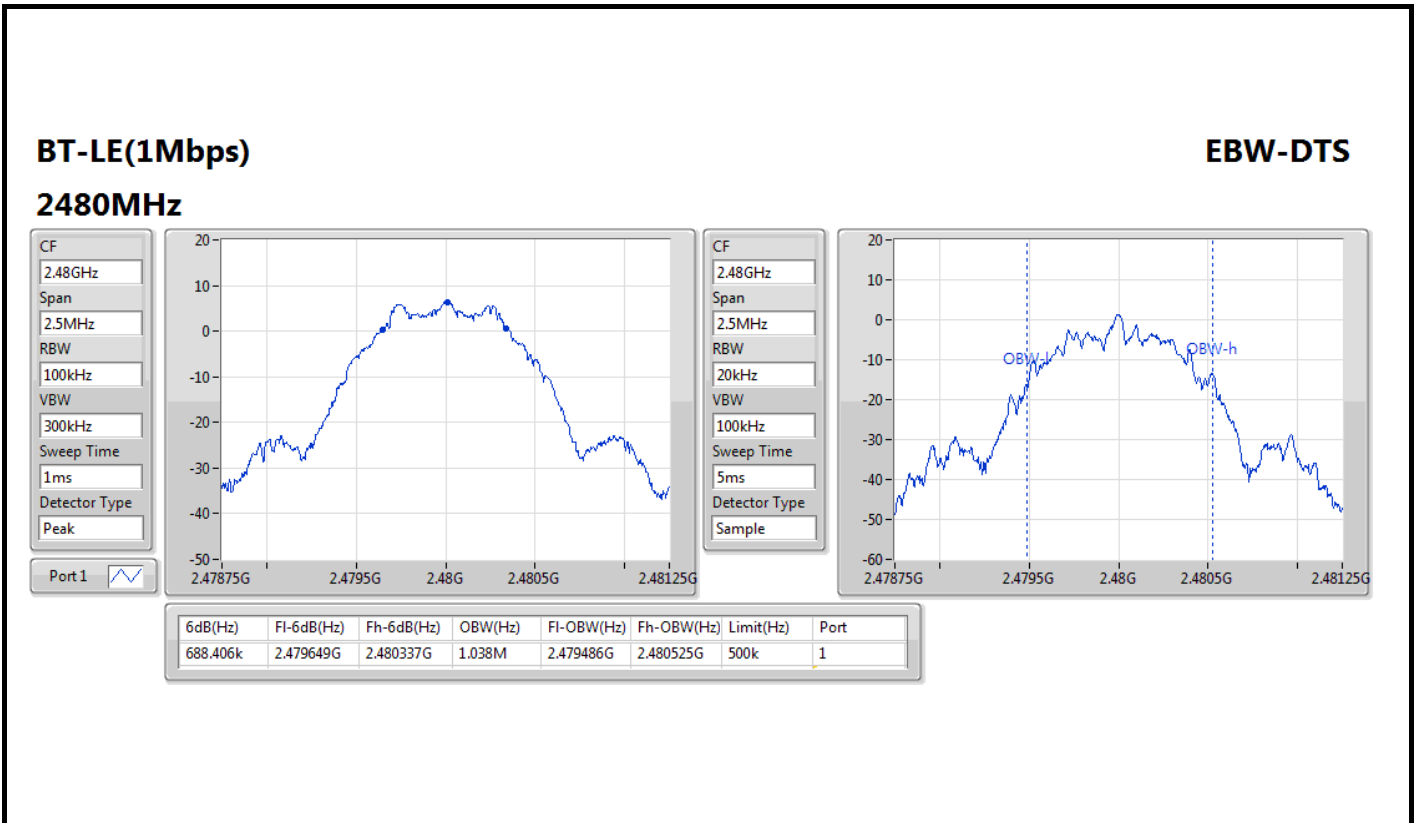
BT-LE(500kbps)

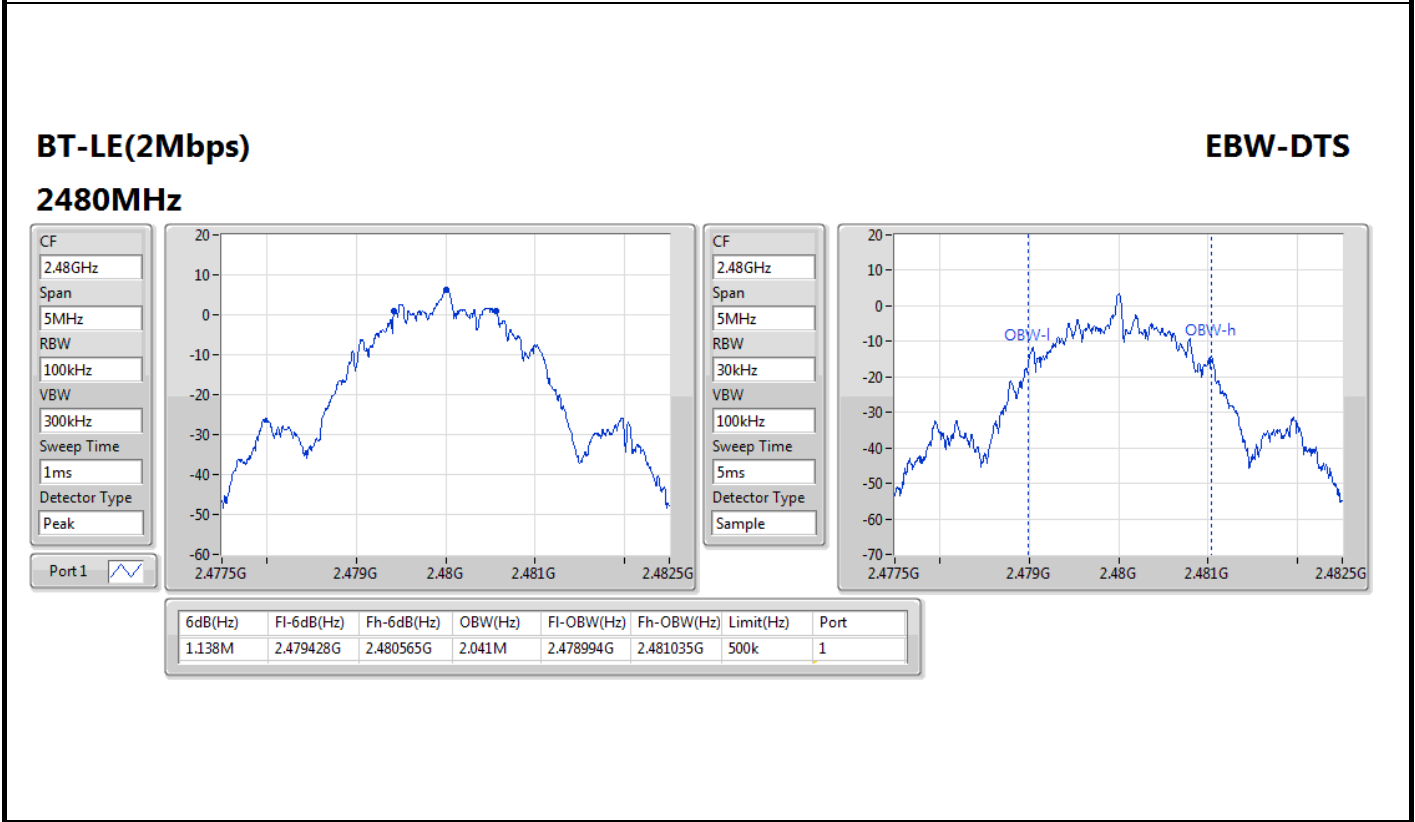
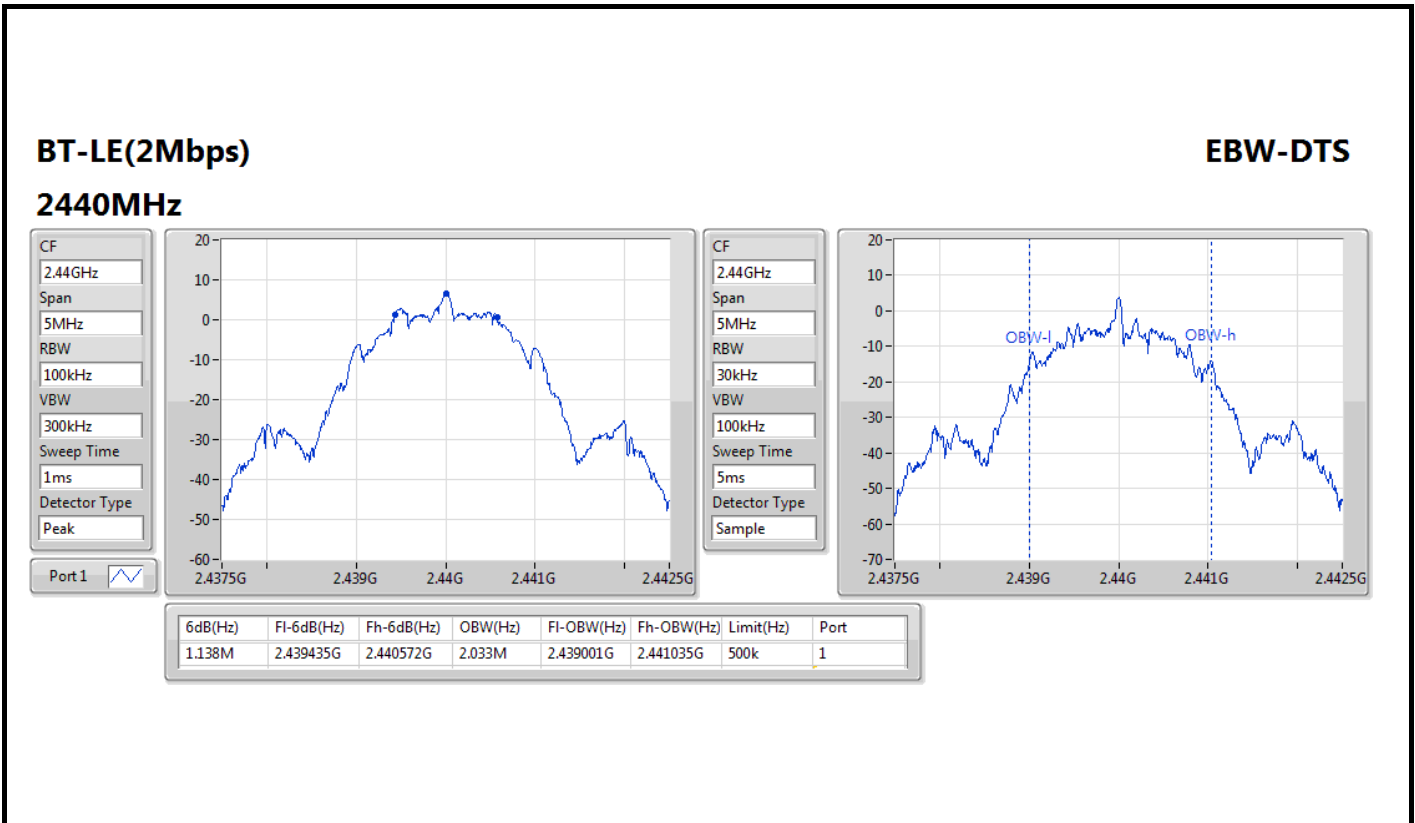
EBW-DTS

2480MHz











Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(125kbps)	7.51	0.00564
BT-LE(500kbps)	7.50	0.00562
BT-LE(1Mbps)	7.52	0.00565
BT-LE(2Mbps)	7.51	0.00564

Result

Mode	Result	Antenna Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	1.37	7.51	30.00
2440MHz	Pass	1.37	7.39	30.00
2480MHz	Pass	1.37	7.11	30.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	1.37	7.50	30.00
2440MHz	Pass	1.37	7.38	30.00
2480MHz	Pass	1.37	7.11	30.00
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.37	7.52	30.00
2440MHz	Pass	1.37	7.41	30.00
2480MHz	Pass	1.37	7.16	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.37	7.51	30.00
2440MHz	Pass	1.37	7.40	30.00
2480MHz	Pass	1.37	7.12	30.00



Conducted Output Power (Average)

Appendix B

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(125kbps)	7.45	0.00556
BT-LE(500kbps)	7.44	0.00555
BT-LE(1Mbps)	7.46	0.00557
BT-LE(2Mbps)	7.45	0.00556

Result

Mode	Result	Antenna Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	1.37	7.45	-
2440MHz	Pass	1.37	7.33	-
2480MHz	Pass	1.37	7.07	-
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	1.37	7.44	-
2440MHz	Pass	1.37	7.32	-
2480MHz	Pass	1.37	7.07	-
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.37	7.46	-
2440MHz	Pass	1.37	7.34	-
2480MHz	Pass	1.37	7.10	-
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.37	7.45	-
2440MHz	Pass	1.37	7.33	-
2480MHz	Pass	1.37	7.08	-

Note: Average power is for reference only.



Summary

Mode	PD (dBm/3kHz)
2.4-2.4835GHz	-
BT-LE(125kbps)	0.94
BT-LE(500kbps)	0.71
BT-LE(1Mbps)	-10.33
BT-LE(2Mbps)	-11.54



Result

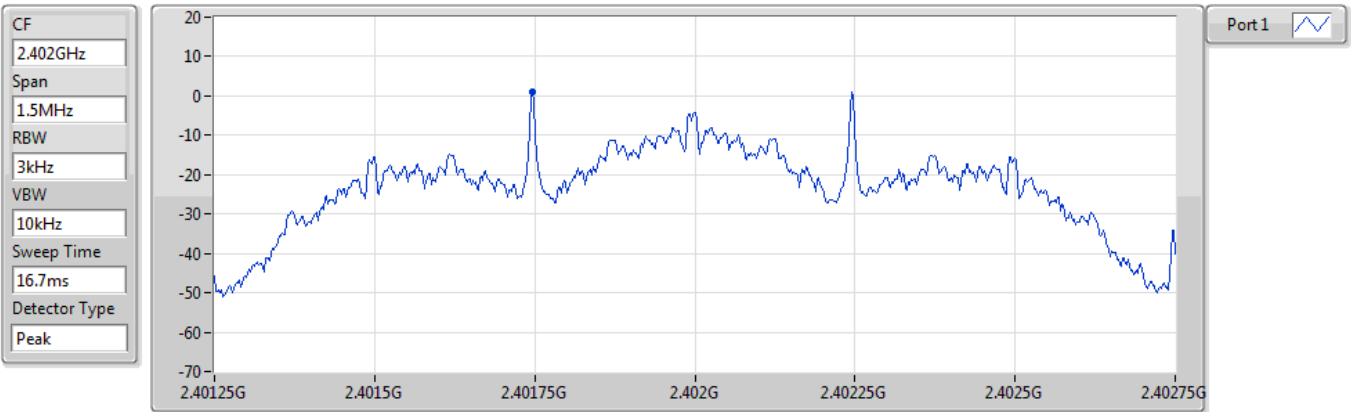
Mode	Result	Antenna Gain (dBi)	Power Density (dBm/3kHz)	Power Density Limit (dBm/3kHz)
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	1.37	0.94	8.00
2440MHz	Pass	1.37	0.82	8.00
2480MHz	Pass	1.37	0.62	8.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	1.37	0.71	8.00
2440MHz	Pass	1.37	0.60	8.00
2480MHz	Pass	1.37	0.38	8.00
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.37	-10.33	8.00
2440MHz	Pass	1.37	-10.44	8.00
2480MHz	Pass	1.37	-10.59	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.37	-11.54	8.00
2440MHz	Pass	1.37	-11.79	8.00
2480MHz	Pass	1.37	-12.06	8.00



BT-LE(125kbps)

PSD

2402MHz

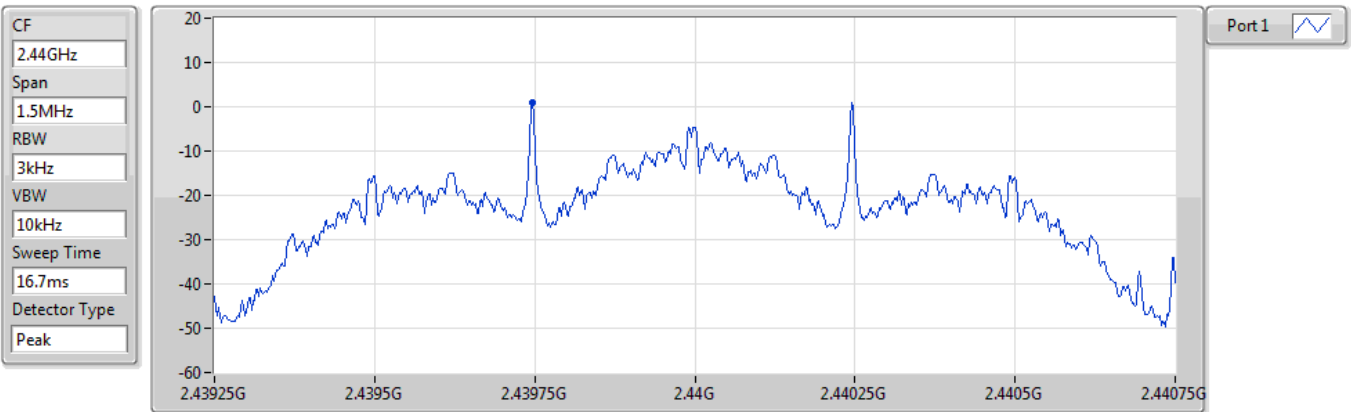


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.94	0.94	0.94

BT-LE(125kbps)

PSD

2440MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.82	0.82	0.82

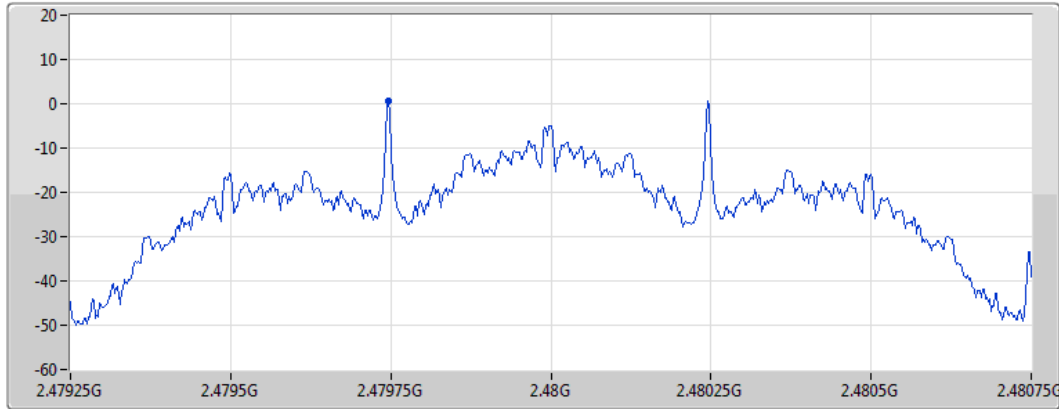


BT-LE(125kbps)

PSD

2480MHz

CF
2.48GHz
Span
1.5MHz
RBW
3kHz
VBW
10kHz
Sweep Time
16.7ms
Detector Type
Peak



Port 1

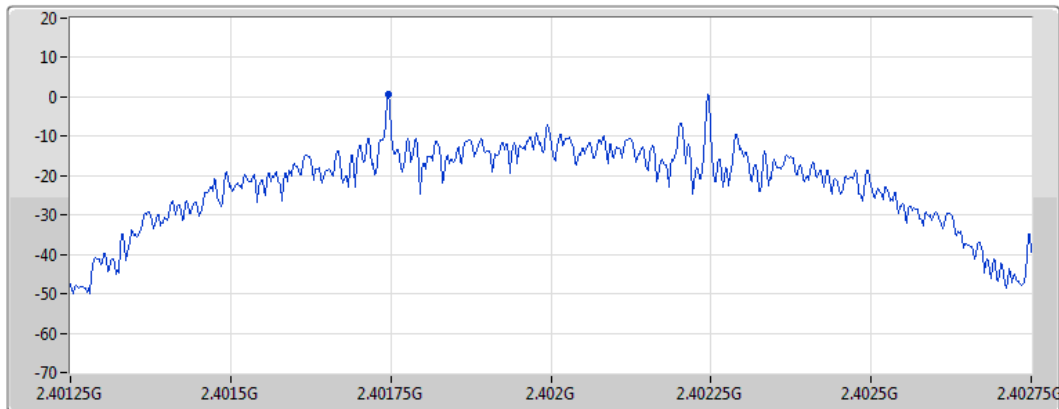
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.62	0.62	0.62

BT-LE(500kbps)

PSD

2402MHz

CF
2.402GHz
Span
1.5MHz
RBW
3kHz
VBW
10kHz
Sweep Time
16.7ms
Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.71	0.71	0.71

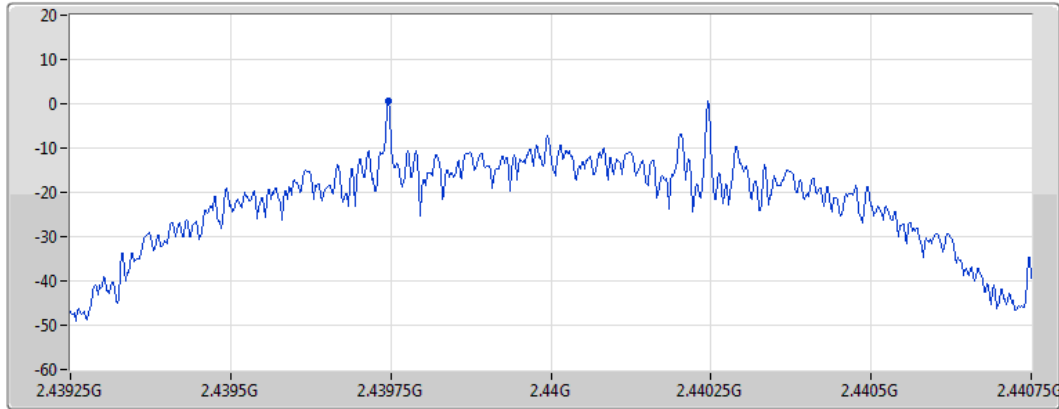


BT-LE(500kbps)

PSD

2440MHz

CF
2.44GHz
Span
1.5MHz
RBW
3kHz
VBW
10kHz
Sweep Time
16.7ms
Detector Type
Peak



Port 1

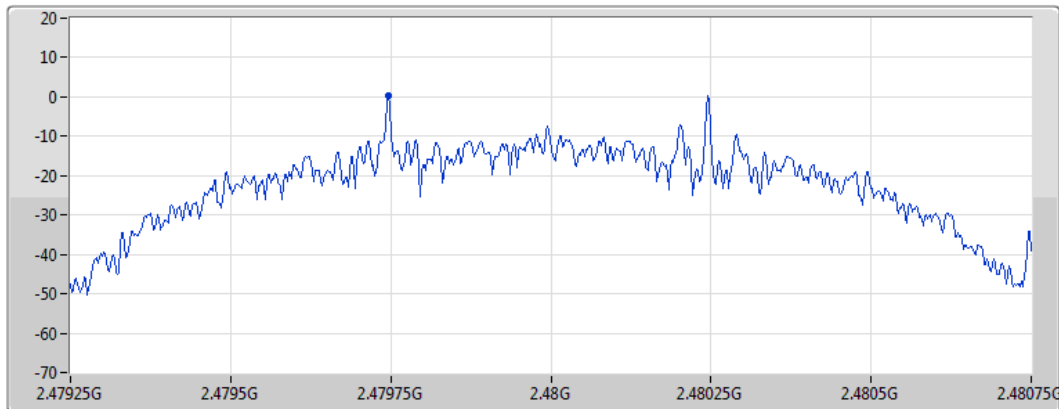
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.60	0.60	0.60

BT-LE(500kbps)

PSD

2480MHz

CF
2.48GHz
Span
1.5MHz
RBW
3kHz
VBW
10kHz
Sweep Time
16.7ms
Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.38	0.38	0.38

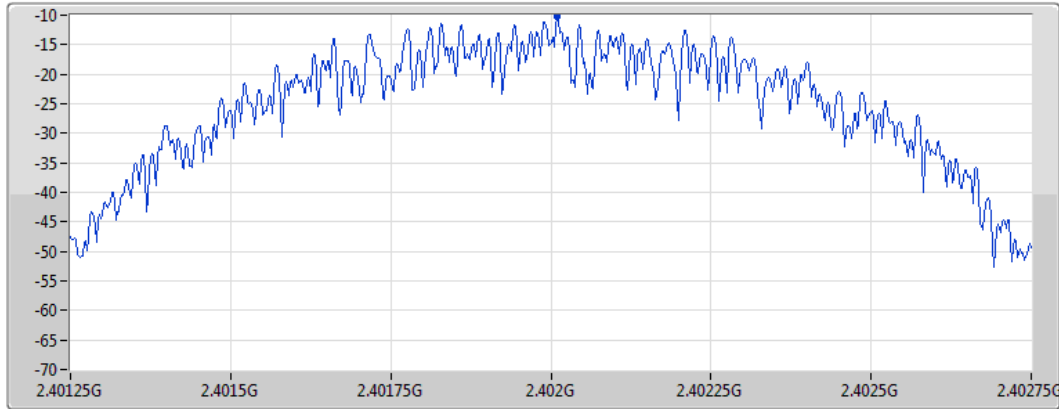


BT-LE(1Mbps)

PSD

2402MHz

CF
2.402GHz
Span
1.5MHz
RBW
3kHz
VBW
10kHz
Sweep Time
16.7ms
Detector Type
Peak



Port 1

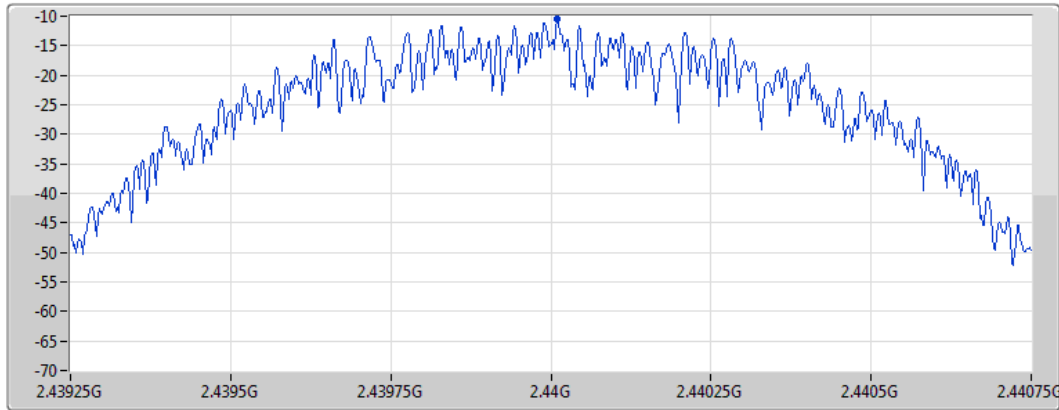
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.33	-10.33	-10.33

BT-LE(1Mbps)

PSD

2440MHz

CF
2.44GHz
Span
1.5MHz
RBW
3kHz
VBW
10kHz
Sweep Time
16.7ms
Detector Type
Peak



Port 1

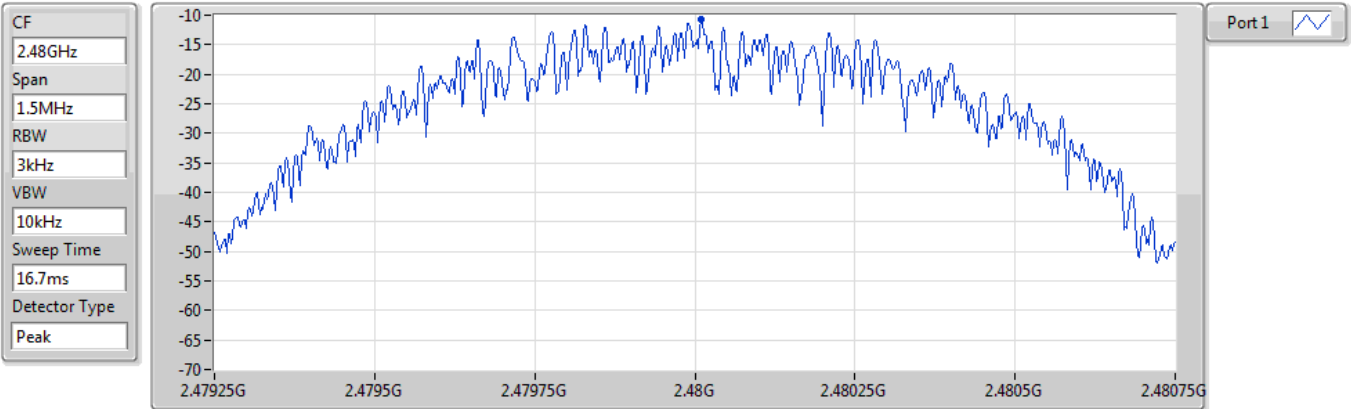
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.44	-10.44	-10.44



BT-LE(1Mbps)

PSD

2480MHz

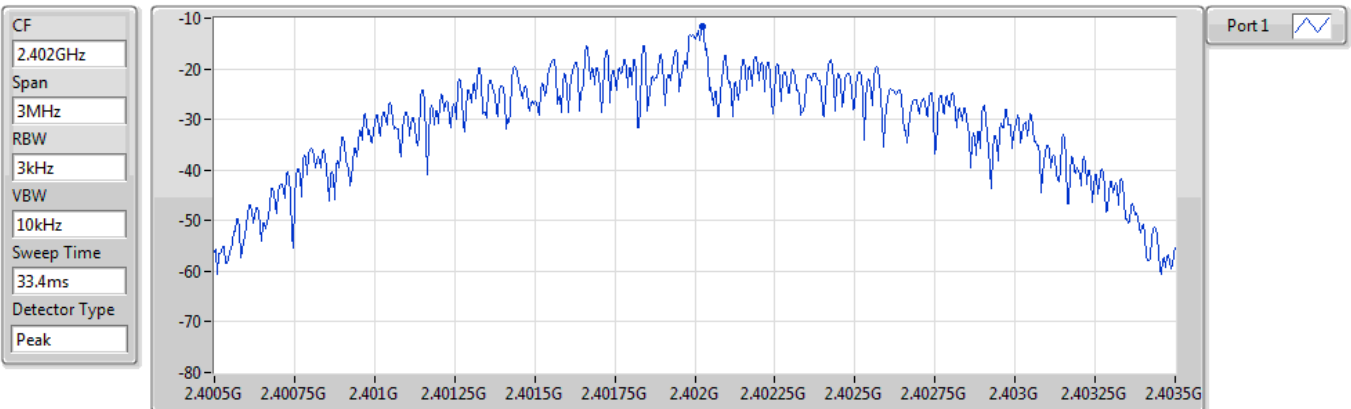


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.59	-10.59	-10.59

BT-LE(2Mbps)

PSD

2402MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.54	-11.54	-11.54

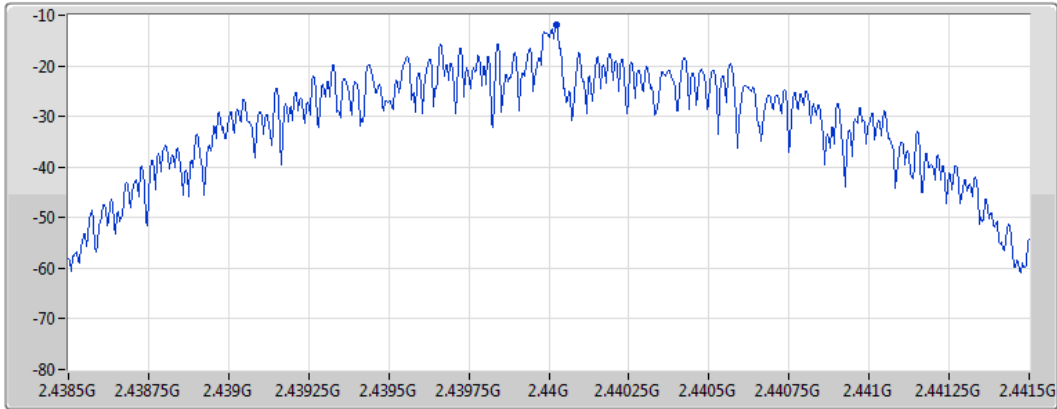


BT-LE(2Mbps)

PSD

2440MHz

CF
2.44GHz
Span
3MHz
RBW
3kHz
VBW
10kHz
Sweep Time
33.4ms
Detector Type
Peak



Port 1

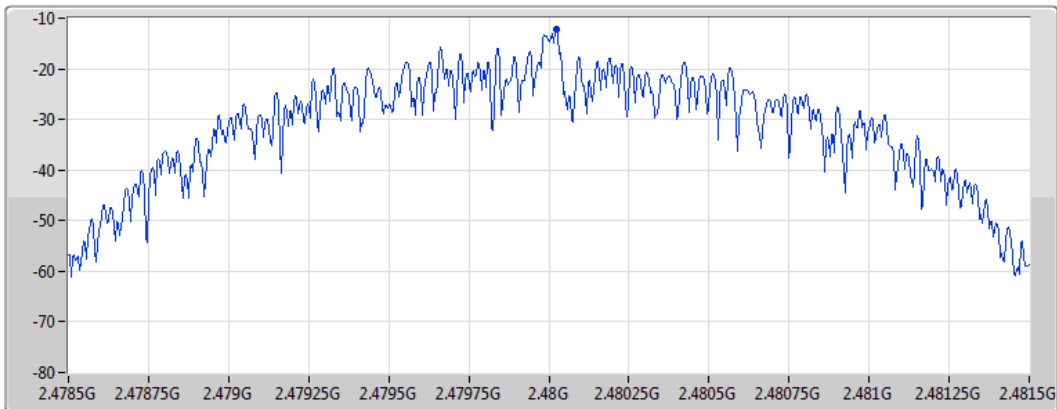
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.79	-11.79	-11.79

BT-LE(2Mbps)

PSD

2480MHz

CF
2.48GHz
Span
3MHz
RBW
3kHz
VBW
10kHz
Sweep Time
33.4ms
Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.06	-12.06	-12.06



Unwanted Emissions (Below 1GHz)

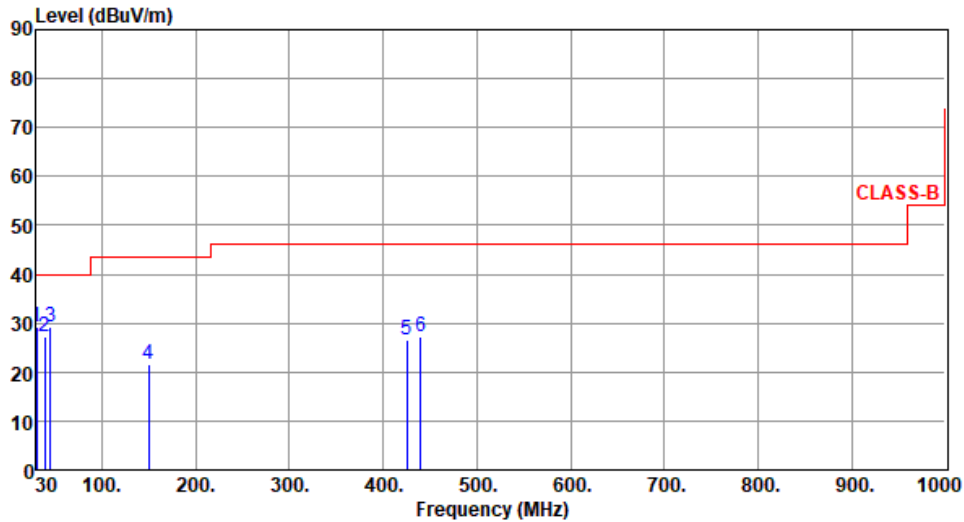
Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2402						
Polarization	Horizontal								
Test By :Akun Chung- Temperature(°C):24 Humidity(%):65									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	45.46	21.21	40.00	-18.79	29.42	-8.21	Peak	---	---
2	55.59	20.59	40.00	-19.41	29.24	-8.65	Peak	---	---
3	127.86	20.56	43.50	-22.94	31.00	-10.44	Peak	---	---
4	146.89	21.34	43.50	-22.16	30.23	-8.89	Peak	---	---
5	167.89	23.45	43.50	-20.05	32.75	-9.30	Peak	---	---
6	425.12	25.81	46.00	-20.19	30.69	-4.88	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
 Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2402
Polarization	Vertical		

Test By :Akun Chung- Temperature(°C):24 Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	30.56	29.12	40.00	-10.88	39.23	-10.11	Peak	---	---
2	39.29	27.29	40.00	-12.71	36.07	-8.78	Peak	---	---
3	45.26	29.11	40.00	-10.89	37.35	-8.24	Peak	---	---
4	149.56	21.59	43.50	-21.91	30.49	-8.90	Peak	---	---
5	425.22	26.59	46.00	-19.41	31.47	-4.88	Peak	---	---
6	440.28	27.31	46.00	-18.69	31.74	-4.43	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

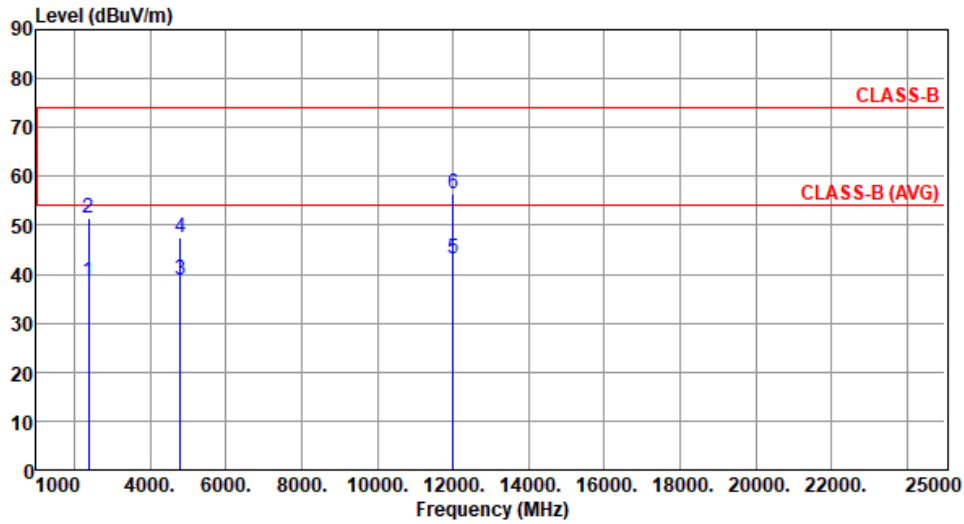
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



Unwanted Emissions (Above 1GHz)

Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2402
Polarization	Horizontal		

Test By :Akun Chung- Temperature(°C):24 Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	38.63	54.00	-15.37	43.67	-5.04	Average	113	116
2	2390.00	51.54	74.00	-22.46	56.58	-5.04	Peak	113	116
3	4804.00	38.81	54.00	-15.19	39.48	-0.67	Average	100	219
4	4804.00	47.39	74.00	-26.61	48.06	-0.67	Peak	100	219
5	12010.00	43.07	54.00	-10.93	37.29	5.78	Average	100	40
6	12010.00	56.29	74.00	-17.71	50.51	5.78	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

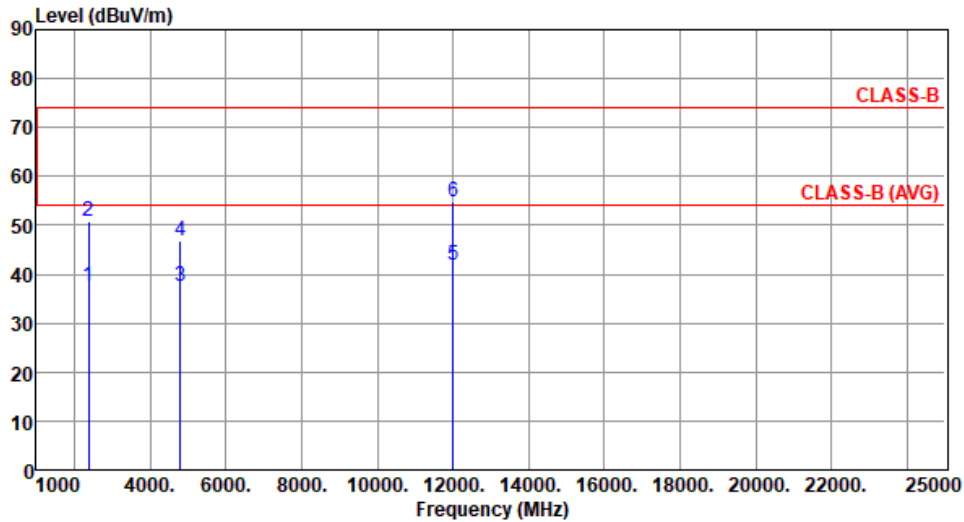
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2402
Polarization	Vertical		

Test By :Akun Chung- Temperature(°C):24 Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	37.40	54.00	-16.60	42.44	-5.04	Average	236	72
2	2390.00	50.89	74.00	-23.11	55.93	-5.04	Peak	236	72
3	4804.00	37.58	54.00	-16.42	38.25	-0.67	Average	116	335
4	4804.00	46.72	74.00	-27.28	47.39	-0.67	Peak	116	335
5	12010.00	41.87	54.00	-12.13	36.09	5.78	Average	100	70
6	12010.00	54.91	74.00	-19.09	49.13	5.78	Peak	100	70

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

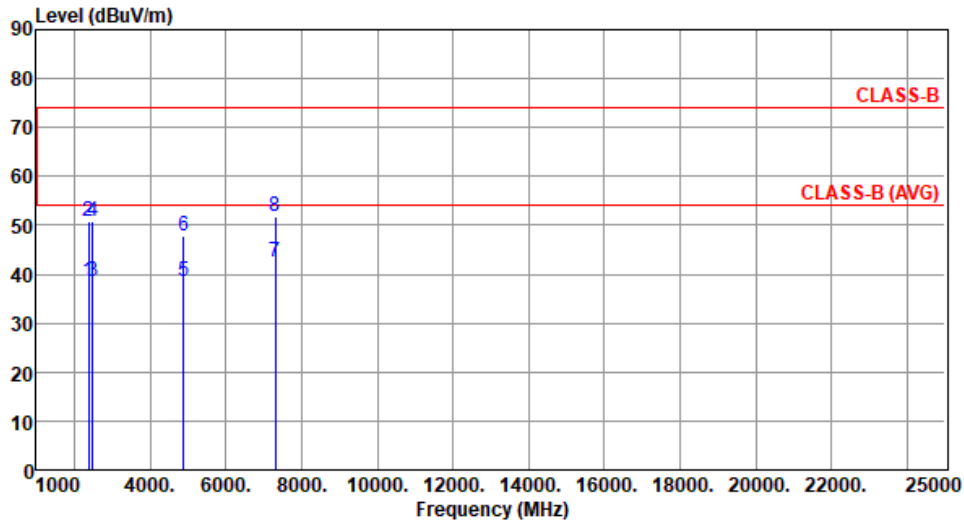
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2440
Polarization	Horizontal		

Test By : Akun Chung- Temperature(°C): 24 Humidity(%): 65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	38.51	54.00	-15.49	43.55	-5.04	Average	157	185
2	2390.00	50.81	74.00	-23.19	55.85	-5.04	Peak	157	185
3	2483.50	38.57	54.00	-15.43	43.71	-5.14	Average	109	116
4	2483.50	50.89	74.00	-23.11	56.03	-5.14	Peak	109	116
5	4880.00	38.65	54.00	-15.35	39.35	-0.70	Average	100	218
6	4880.00	47.86	74.00	-26.14	48.56	-0.70	Peak	100	218
7	7320.00	42.47	54.00	-11.53	37.63	4.84	Average	297	13
8	7320.00	51.84	74.00	-22.16	47.00	4.84	Peak	297	13

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

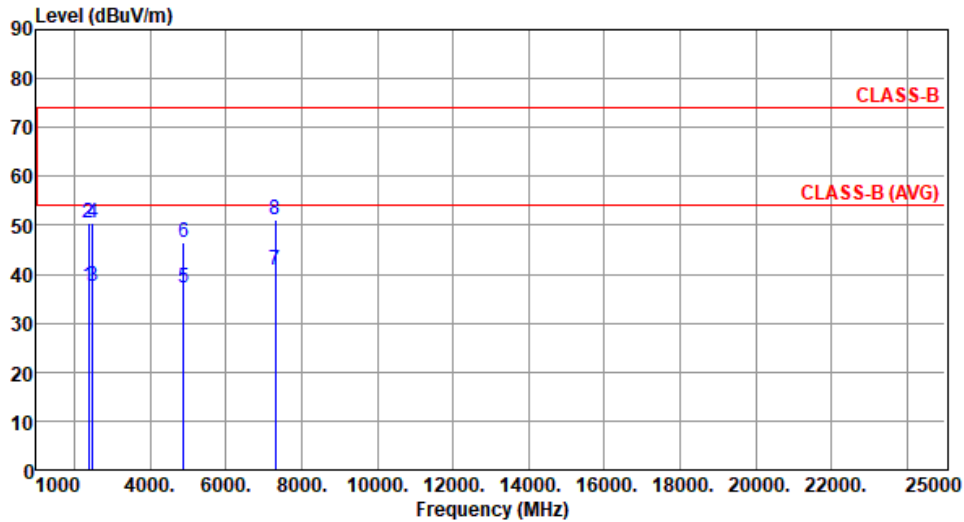
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2440
Polarization	Vertical		

Test By :Akun Chung- Temperature(°C):24 Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	37.41	54.00	-16.59	42.45	-5.04	Average	234	172
2	2390.00	50.33	74.00	-23.67	55.37	-5.04	Peak	234	172
3	2483.50	37.45	54.00	-16.55	42.59	-5.14	Average	237	75
4	2483.50	50.41	74.00	-23.59	55.55	-5.14	Peak	237	75
5	4880.00	37.34	54.00	-16.66	38.04	-0.70	Average	115	333
6	4880.00	46.43	74.00	-27.57	47.13	-0.70	Peak	115	333
7	7320.00	40.87	54.00	-13.13	36.03	4.84	Average	290	259
8	7320.00	51.07	74.00	-22.93	46.23	4.84	Peak	290	259

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

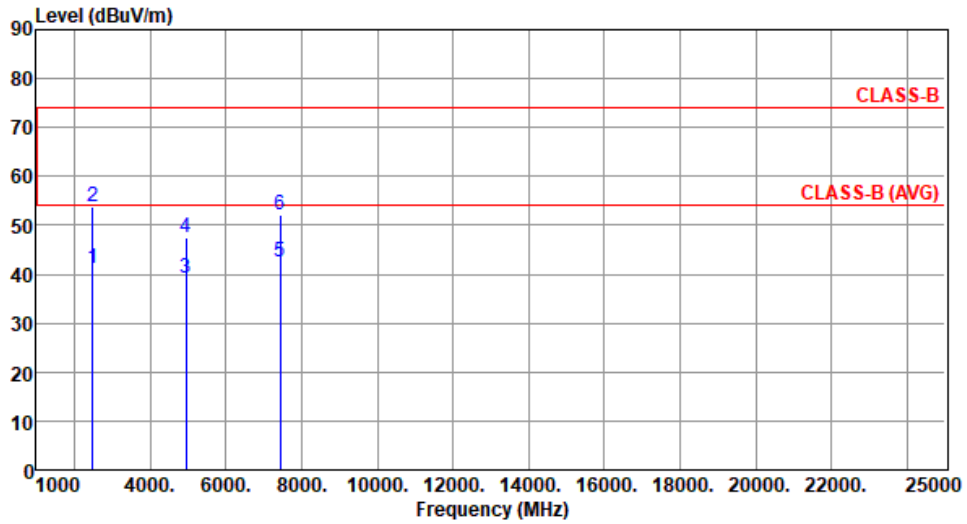
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2480
Polarization	Horizontal		

Test By :Akun Chung- Temperature(°C):24 Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	41.07	54.00	-12.93	46.21	-5.14	Average	109	110
2	2483.50	53.86	74.00	-20.14	59.00	-5.14	Peak	109	110
3	4960.00	39.15	54.00	-14.85	39.97	-0.82	Average	100	215
4	4960.00	47.49	74.00	-26.51	48.31	-0.82	Peak	100	215
5	7440.00	42.63	54.00	-11.37	37.72	4.91	Average	299	15
6	7440.00	52.17	74.00	-21.83	47.26	4.91	Peak	299	15

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

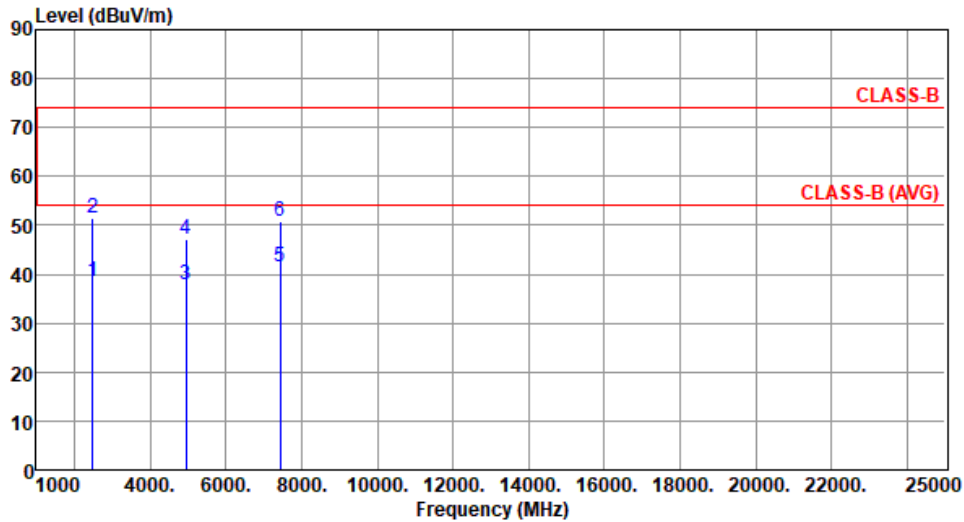
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	BT-LE (1Mbps)	Test Freq. (MHz)	2480
Polarization	Vertical		

Test By :Akun Chung- Temperature(°C):24 Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	38.51	54.00	-15.49	43.65	-5.14	Average	236	158
2	2483.50	51.46	74.00	-22.54	56.60	-5.14	Peak	236	158
3	4960.00	37.70	54.00	-16.30	38.52	-0.82	Average	116	330
4	4960.00	47.00	74.00	-27.00	47.82	-0.82	Peak	116	330
5	7440.00	41.63	54.00	-12.37	36.72	4.91	Average	281	264
6	7440.00	50.95	74.00	-23.05	46.04	4.91	Peak	281	264

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



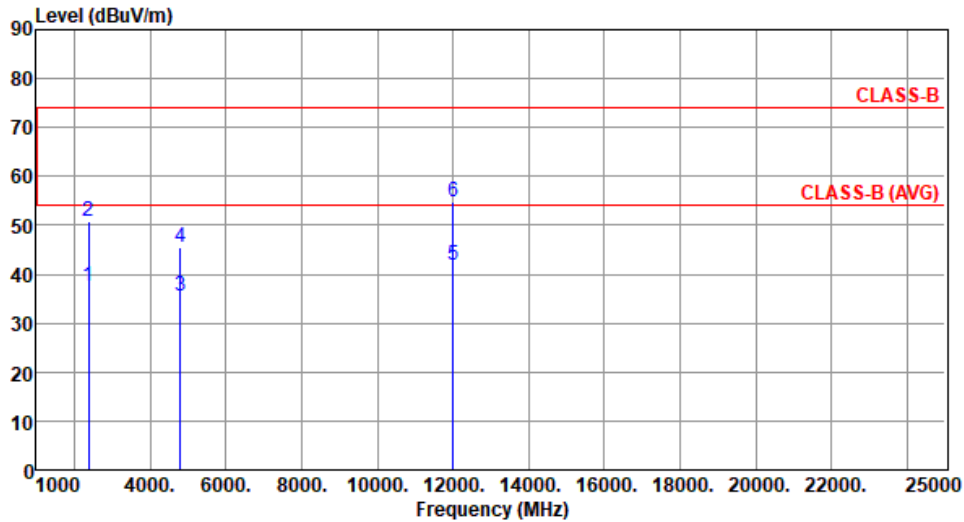
Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2402						
Polarization	Horizontal								
Test By : Akun Chung- Temperature(°C):24 Humidity(%):65									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	38.82	54.00	-15.18	43.86	-5.04	Average	223	227
2	2390.00	51.84	74.00	-22.16	56.88	-5.04	Peak	223	227
3	4804.00	36.58	54.00	-17.42	37.25	-0.67	Average	100	213
4	4804.00	46.77	74.00	-27.23	47.44	-0.67	Peak	100	213
5	12010.00	41.87	54.00	-12.13	36.09	5.78	Average	100	30
6	12010.00	55.04	74.00	-18.96	49.26	5.78	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2402
Polarization	Vertical		

Test By : Akun Chung- Temperature(°C): 24 Humidity(%): 65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	37.59	54.00	-16.41	42.63	-5.04	Average	238	68
2	2390.00	50.83	74.00	-23.17	55.87	-5.04	Peak	238	68
3	4804.00	35.46	54.00	-18.54	36.13	-0.67	Average	115	339
4	4804.00	45.41	74.00	-28.59	46.08	-0.67	Peak	115	339
5	12010.00	41.73	54.00	-12.27	35.95	5.78	Average	100	60
6	12010.00	54.74	74.00	-19.26	48.96	5.78	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

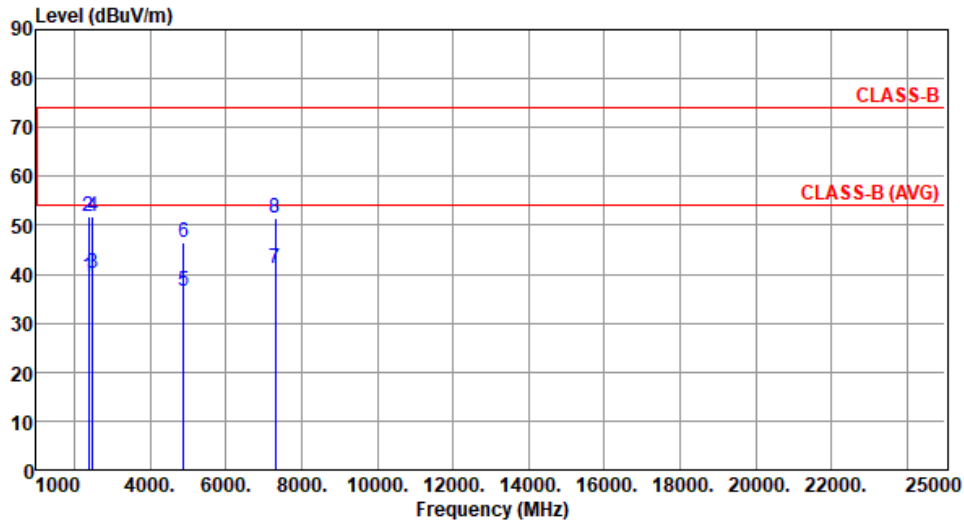
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2440
Polarization	Horizontal		

Test By : Akun Chung- Temperature(°C): 24 Humidity(%): 65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	39.67	54.00	-14.33	44.71	-5.04	Average	212	240
2	2390.00	51.81	74.00	-22.19	56.85	-5.04	Peak	212	240
3	2483.50	40.16	54.00	-13.84	45.30	-5.14	Average	107	112
4	2483.50	51.97	74.00	-22.03	57.11	-5.14	Peak	107	112
5	4880.00	36.37	54.00	-17.63	37.07	-0.70	Average	100	216
6	4880.00	46.49	74.00	-27.51	47.19	-0.70	Peak	100	216
7	7320.00	41.29	54.00	-12.71	36.45	4.84	Average	293	15
8	7320.00	51.56	74.00	-22.44	46.72	4.84	Peak	293	15

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

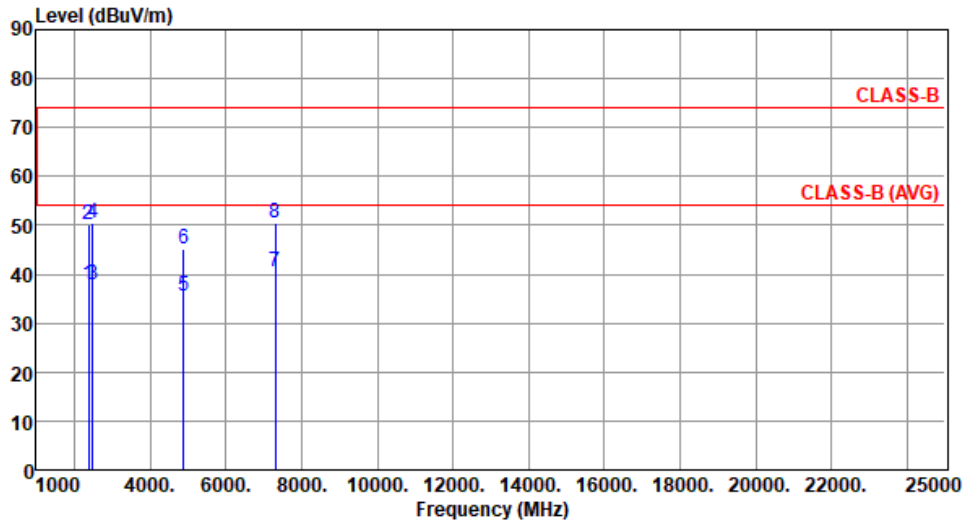
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2440
Polarization	Vertical		

Test By :Akun Chung- Temperature(°C):24 Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	37.76	54.00	-16.24	42.80	-5.04	Average	237	151
2	2390.00	50.21	74.00	-23.79	55.25	-5.04	Peak	237	151
3	2483.50	37.94	54.00	-16.06	43.08	-5.14	Average	233	71
4	2483.50	50.49	74.00	-23.51	55.63	-5.14	Peak	233	71
5	4880.00	35.49	54.00	-18.51	36.19	-0.70	Average	119	335
6	4880.00	45.30	74.00	-28.70	46.00	-0.70	Peak	119	335
7	7320.00	40.48	54.00	-13.52	35.64	4.84	Average	285	255
8	7320.00	50.62	74.00	-23.38	45.78	4.84	Peak	285	255

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

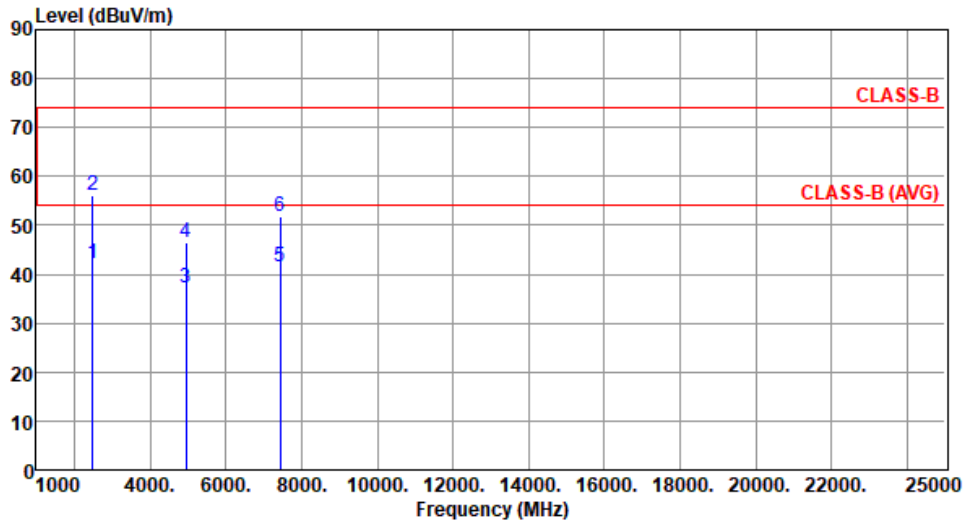
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2480
Polarization	Horizontal		

Test By :Akun Chung- Temperature(°C):24 Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	42.27	54.00	-11.73	47.41	-5.14	Average	286	239
2	2483.50	55.99	74.00	-18.01	61.13	-5.14	Peak	286	239
3	4960.00	37.15	54.00	-16.85	37.97	-0.82	Average	100	213
4	4960.00	46.40	74.00	-27.60	47.22	-0.82	Peak	100	213
5	7440.00	41.51	54.00	-12.49	36.60	4.91	Average	293	16
6	7440.00	51.80	74.00	-22.20	46.89	4.91	Peak	293	16

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

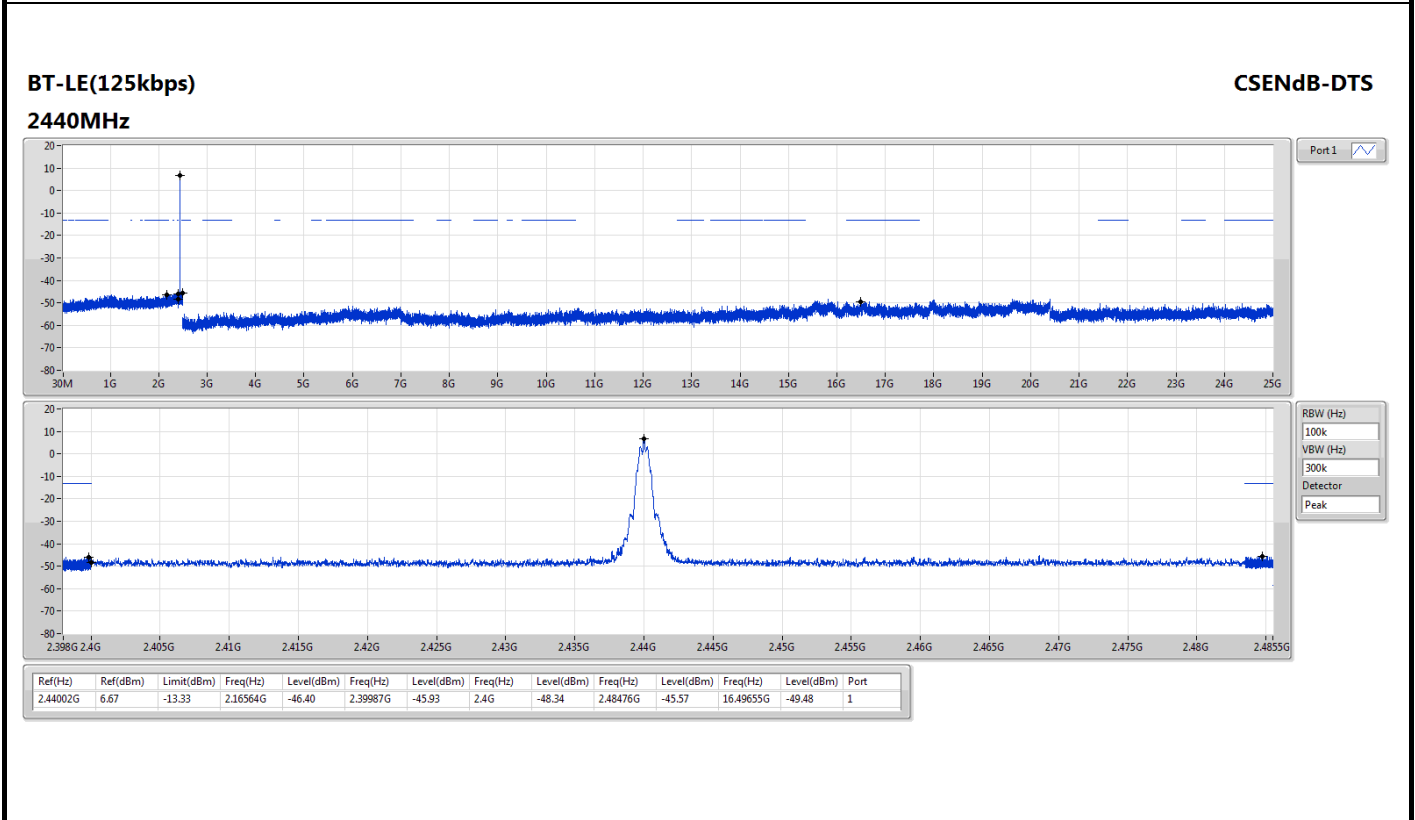
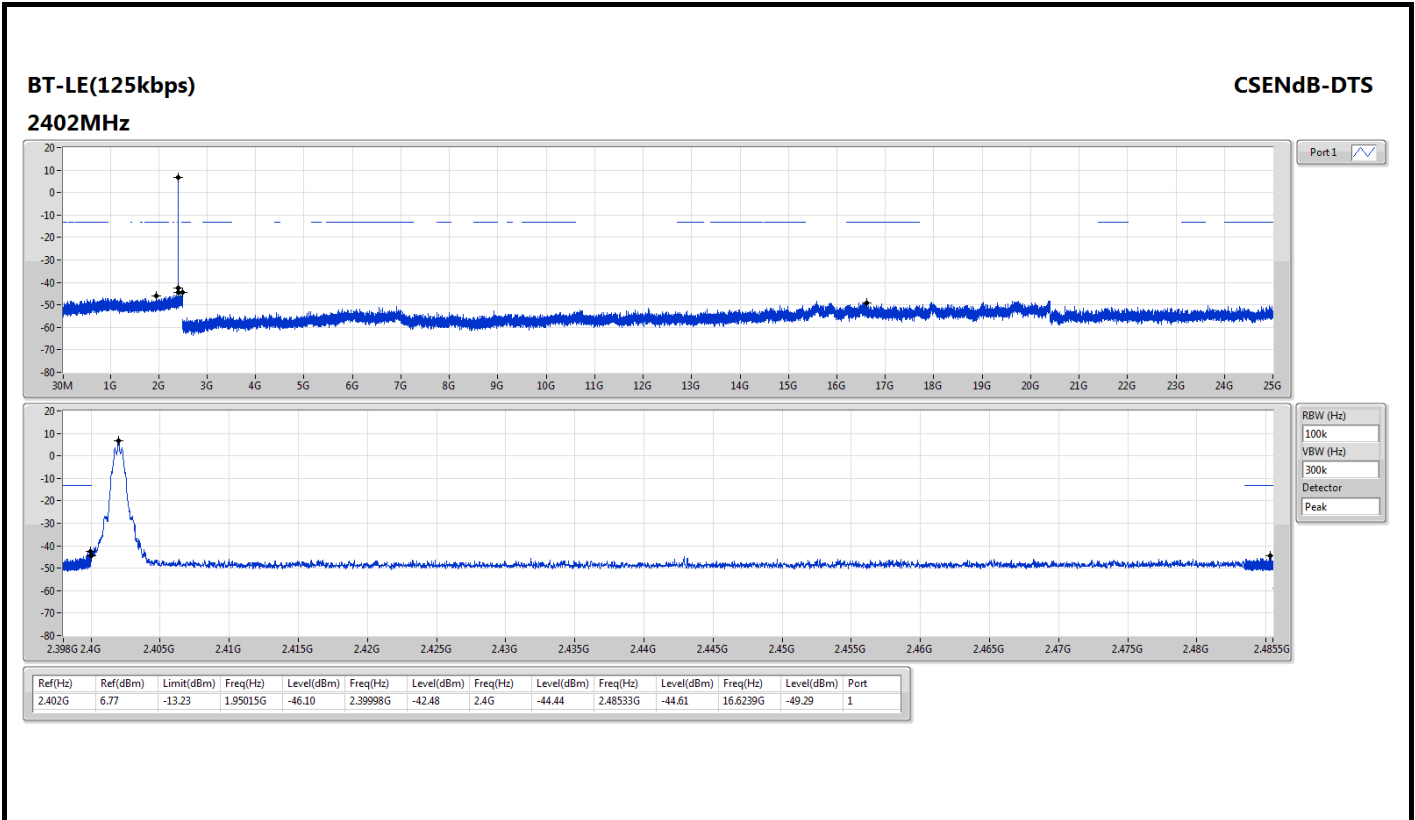
*Factor includes antenna factor , cable loss and amplifier gain

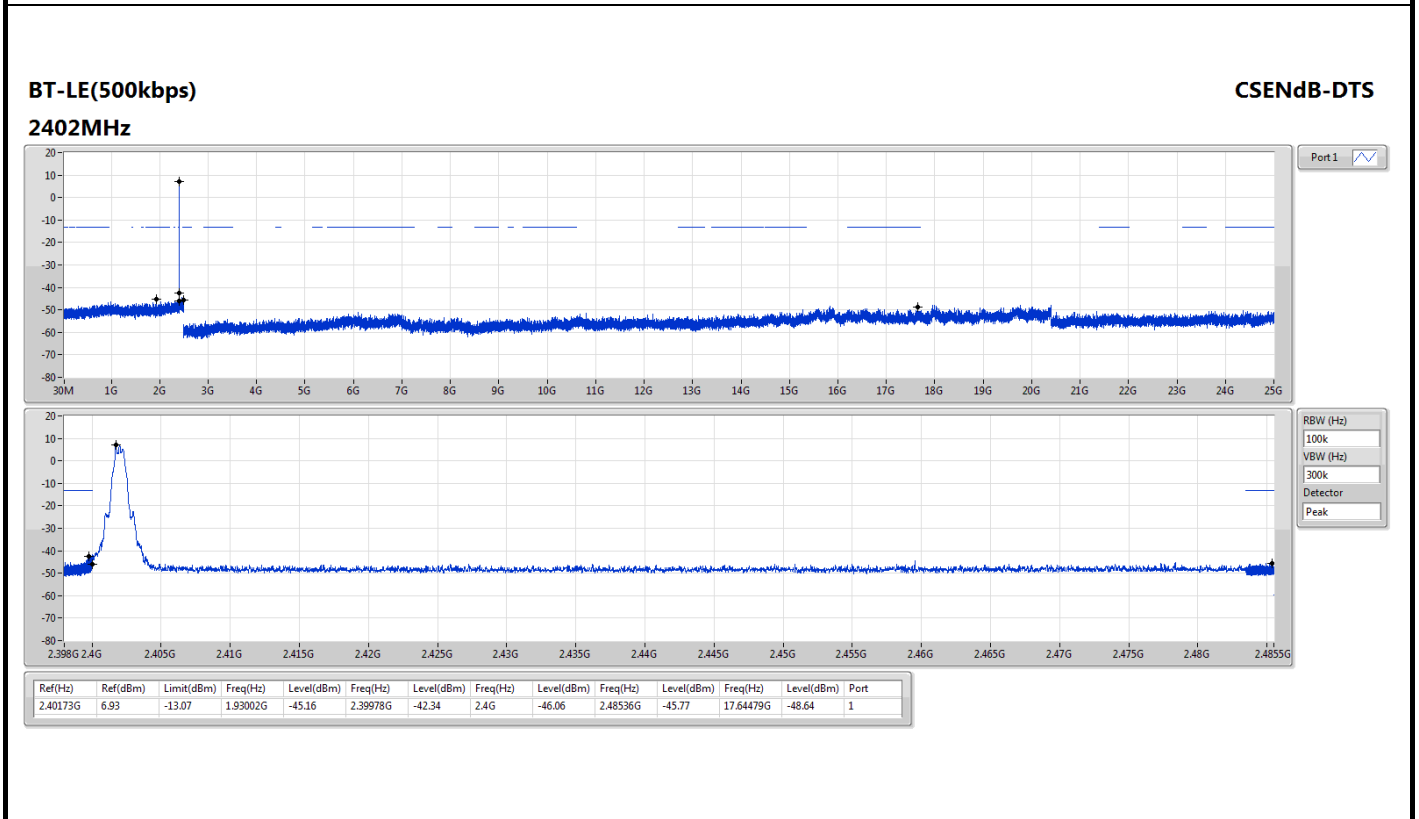
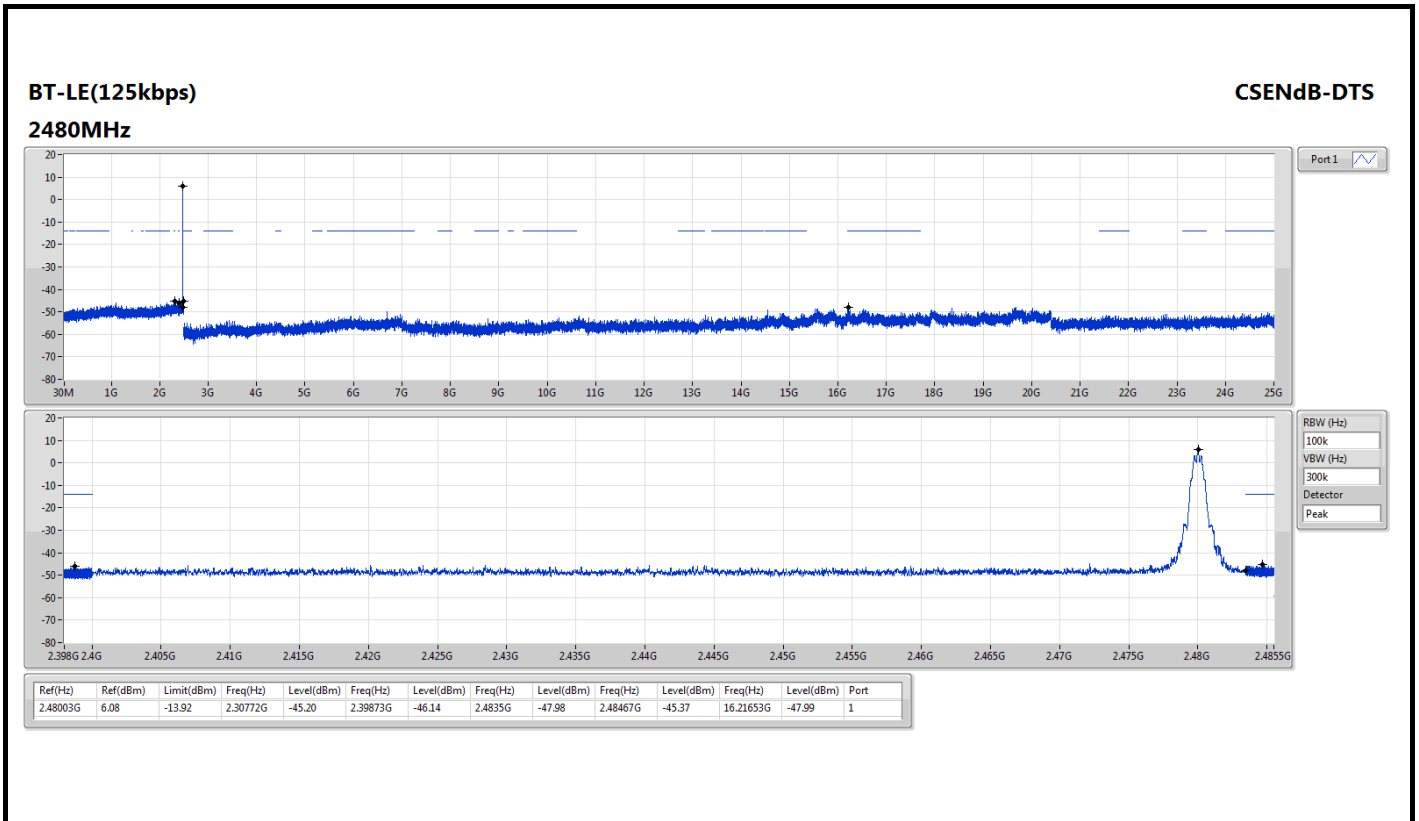
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	BT-LE (2Mbps)	Test Freq. (MHz)	2480						
Polarization	Vertical								
Test By :Akun Chung- Temperature(°C):24 Humidity(%):65									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2483.50	41.46	54.00	-12.54	46.60	-5.14	Average	250	166
2	2483.50	54.65	74.00	-19.35	59.79	-5.14	Peak	250	166
3	4960.00	35.31	54.00	-18.69	36.13	-0.82	Average	111	334
4	4960.00	45.91	74.00	-28.09	46.73	-0.82	Peak	111	334
5	7440.00	40.53	54.00	-13.47	35.62	4.91	Average	288	265
6	7440.00	49.92	74.00	-24.08	45.01	4.91	Peak	288	265

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



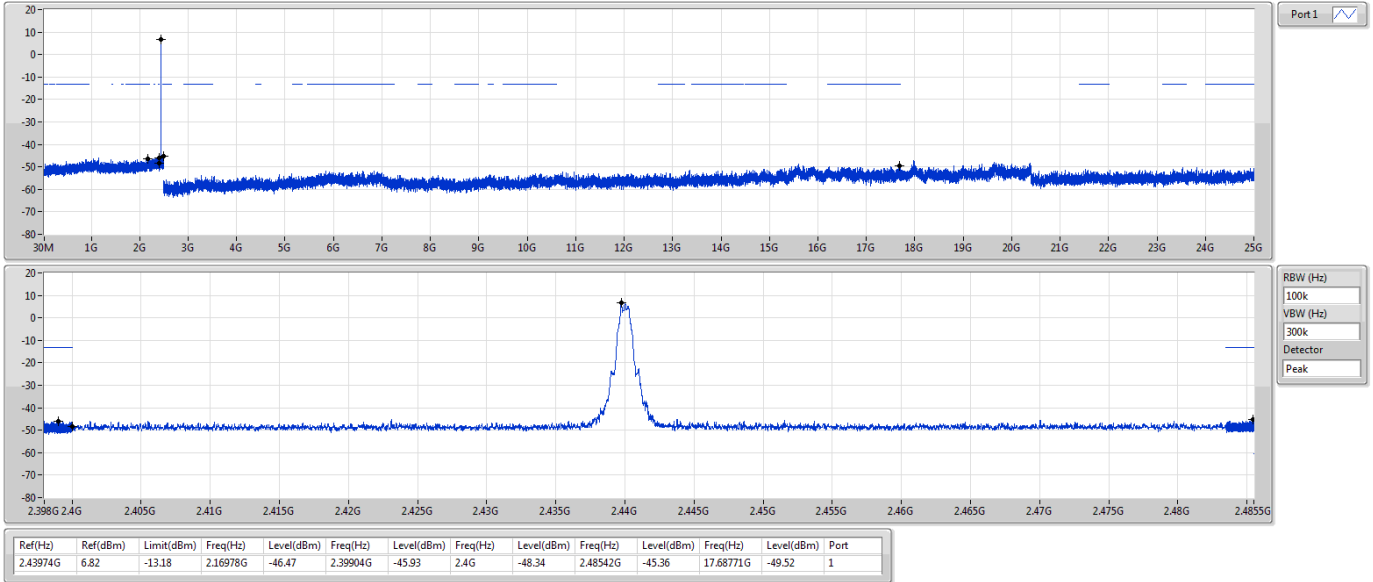




BT-LE(500kbps)

CSEndB-DTS

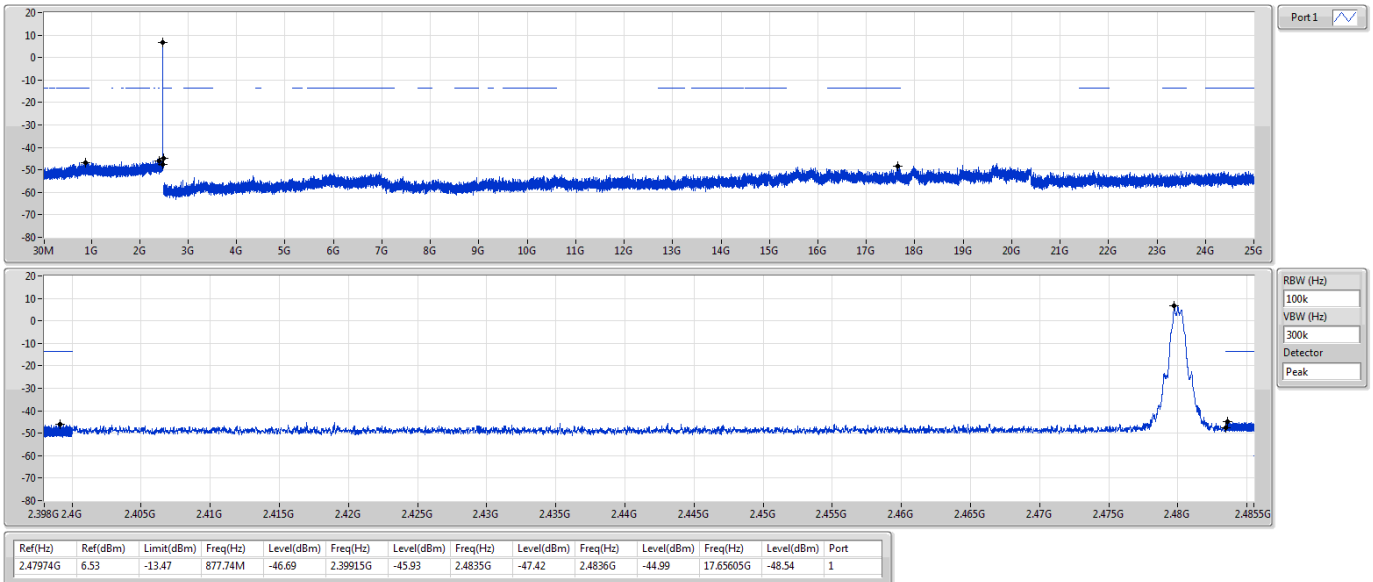
2440MHz

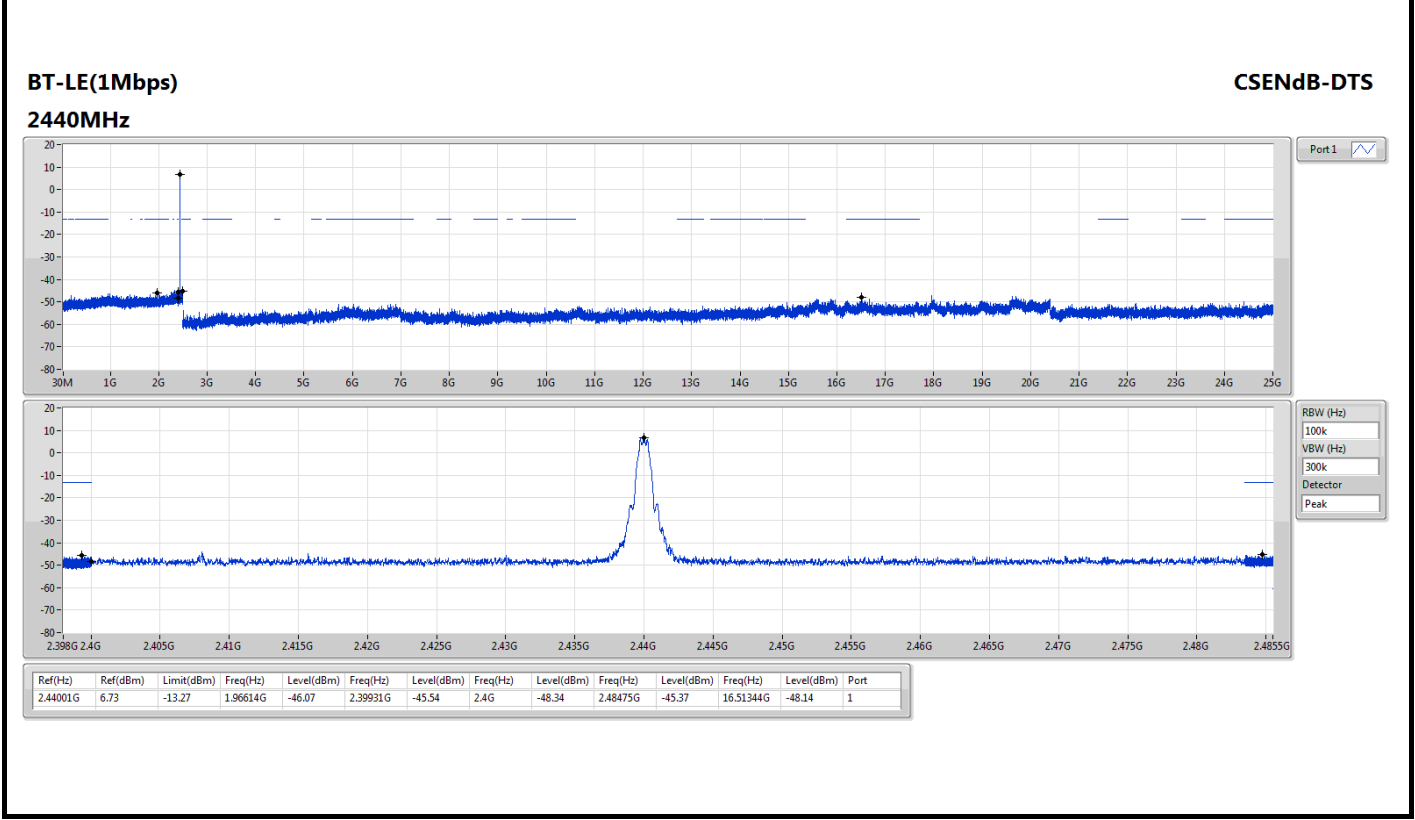
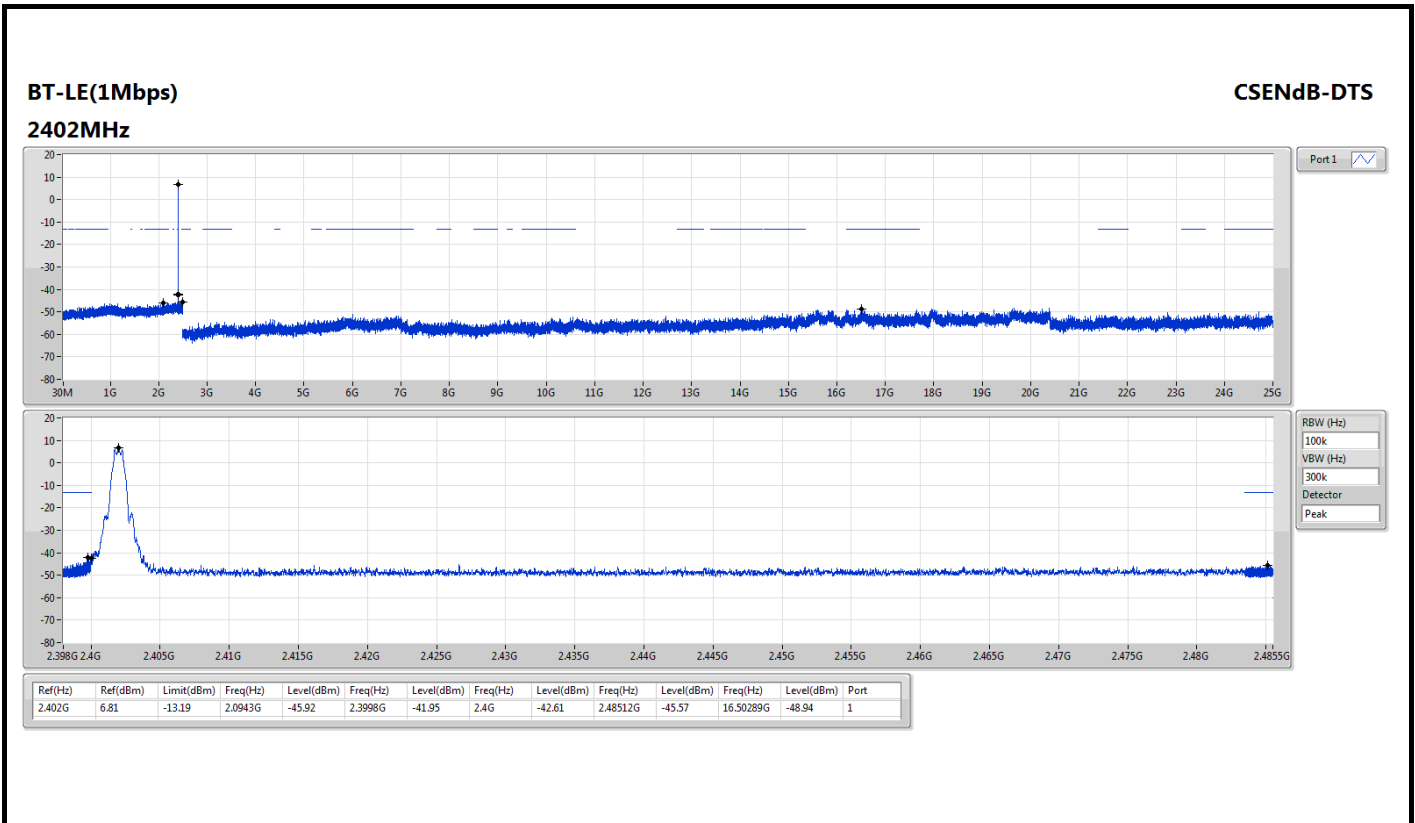


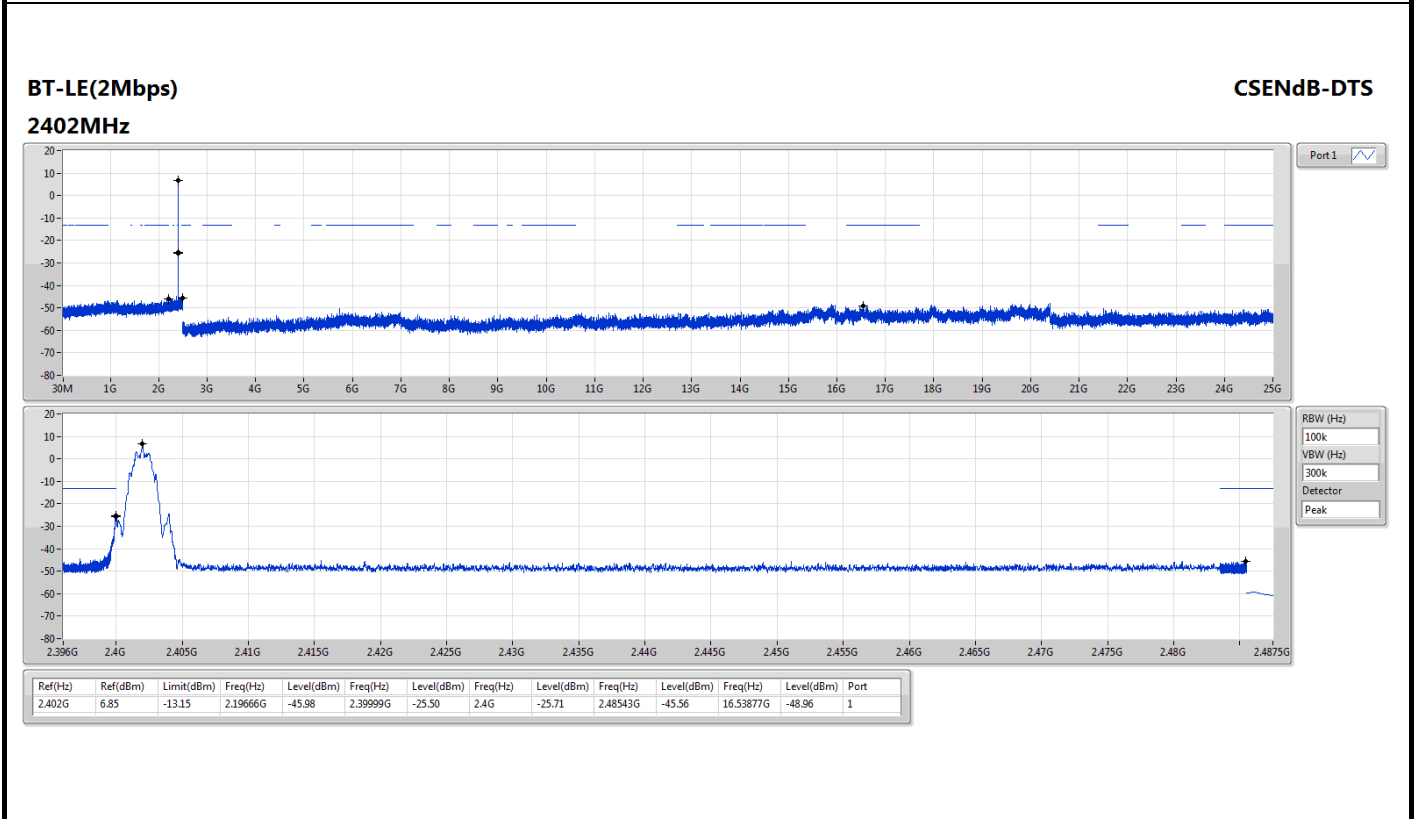
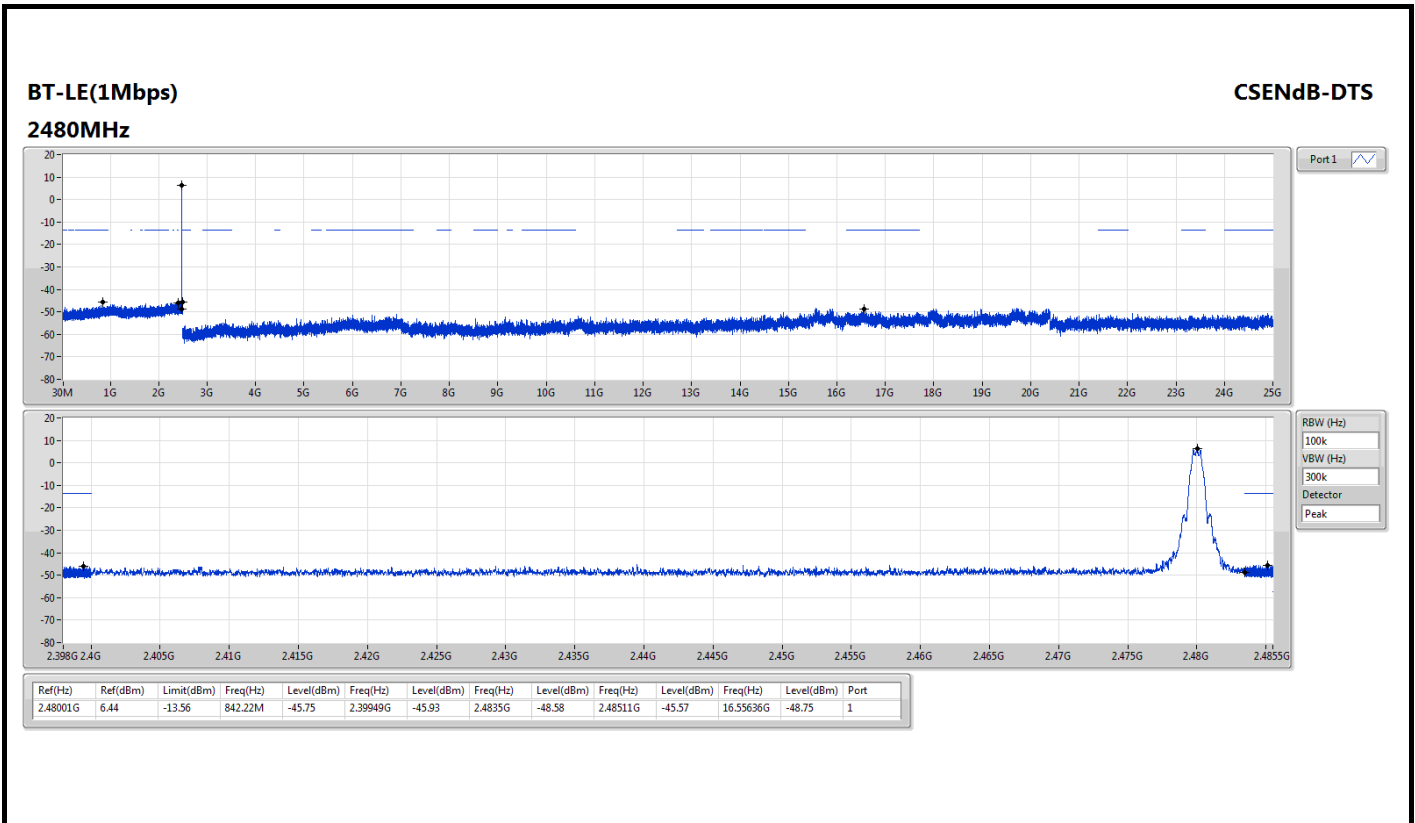
BT-LE(500kbps)

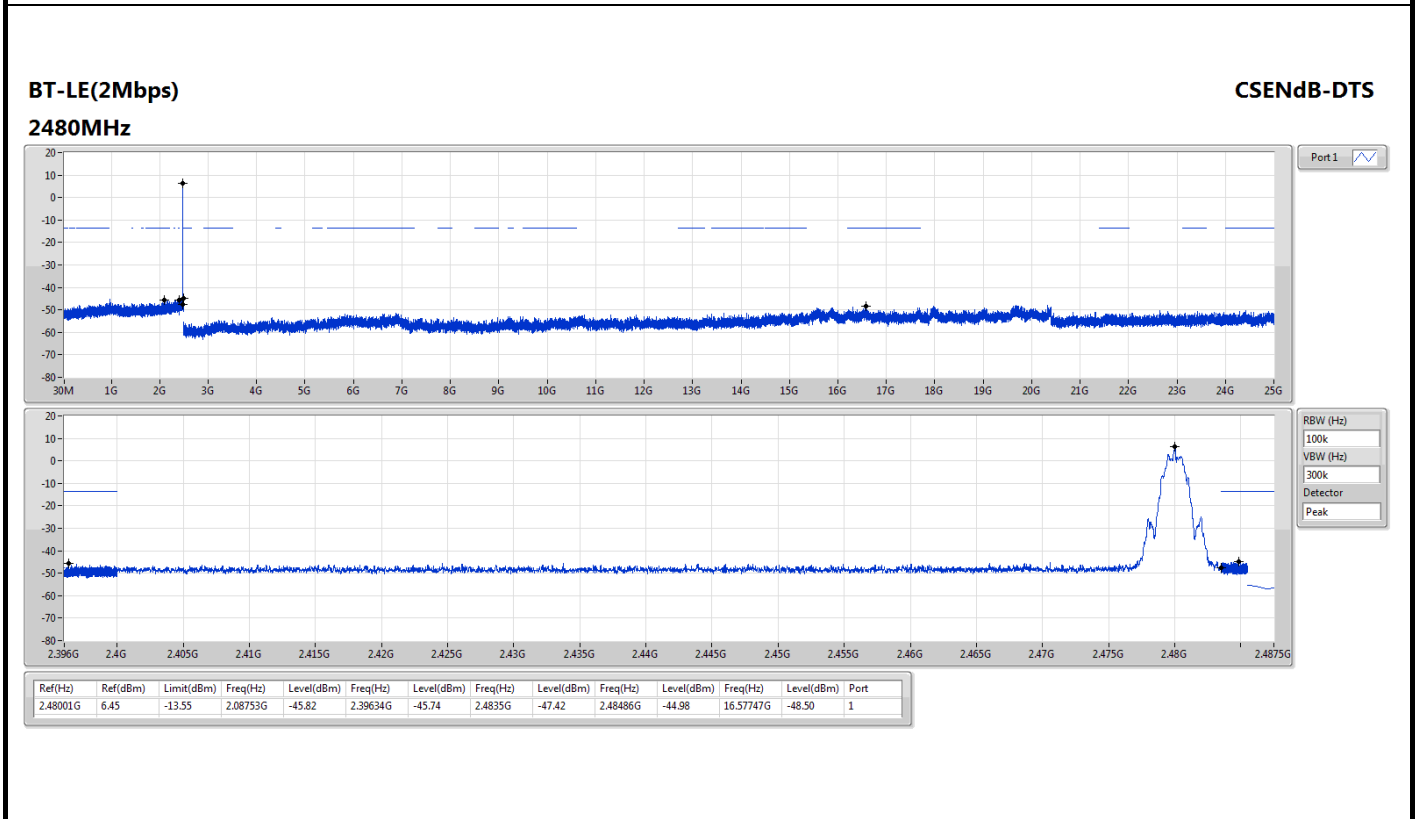
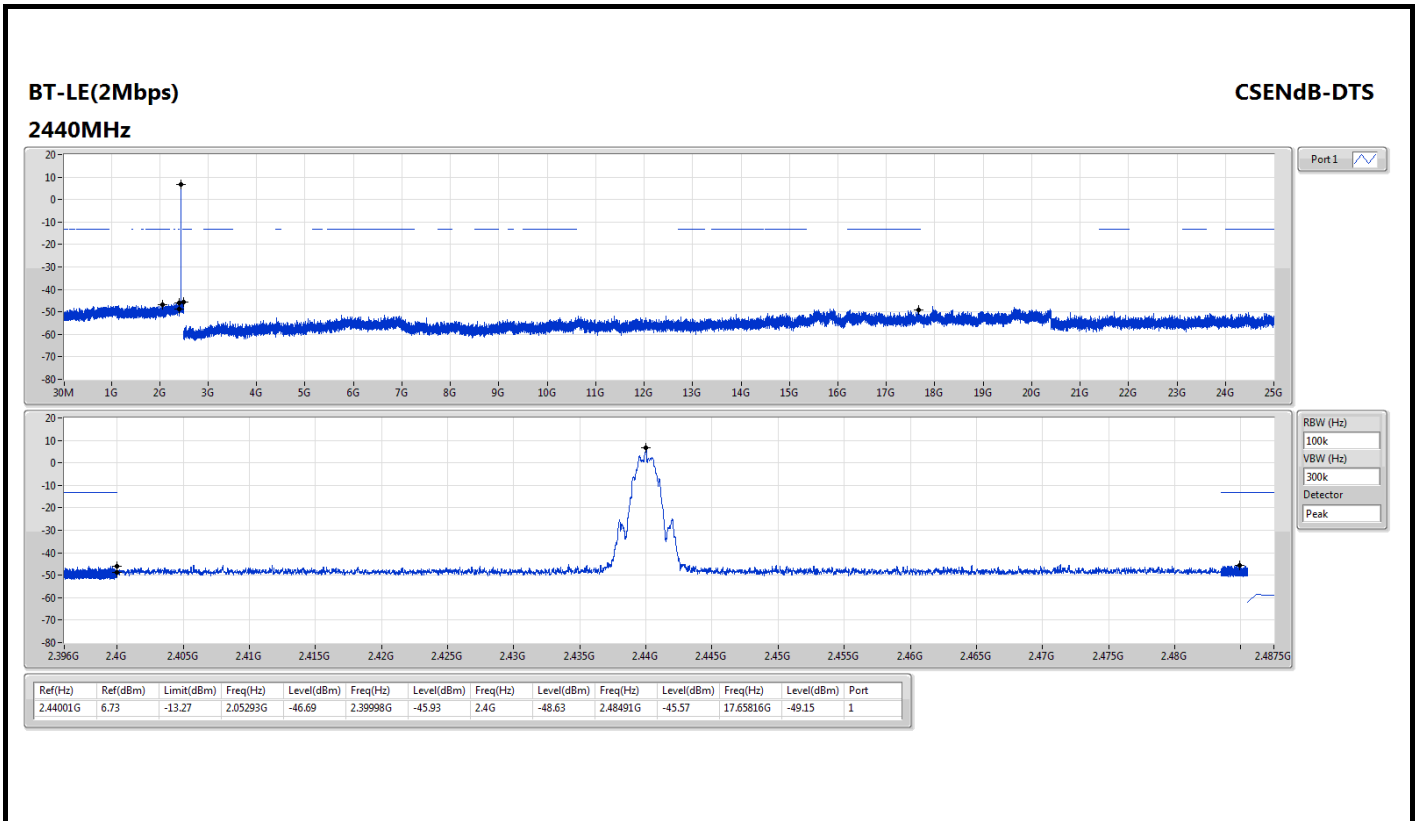
CSEndB-DTS

2480MHz





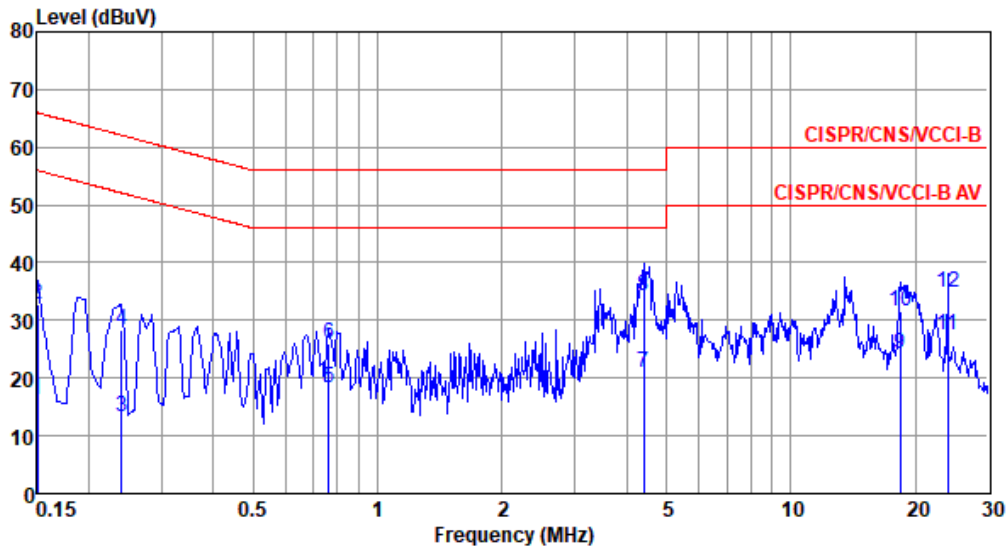






Modulation	BT-LE(1Mbps)	Test Freq. (MHz)	2402
Power Phase	Line		

Test by : Joe Liao Temperature: 20°C Humidity: 63%



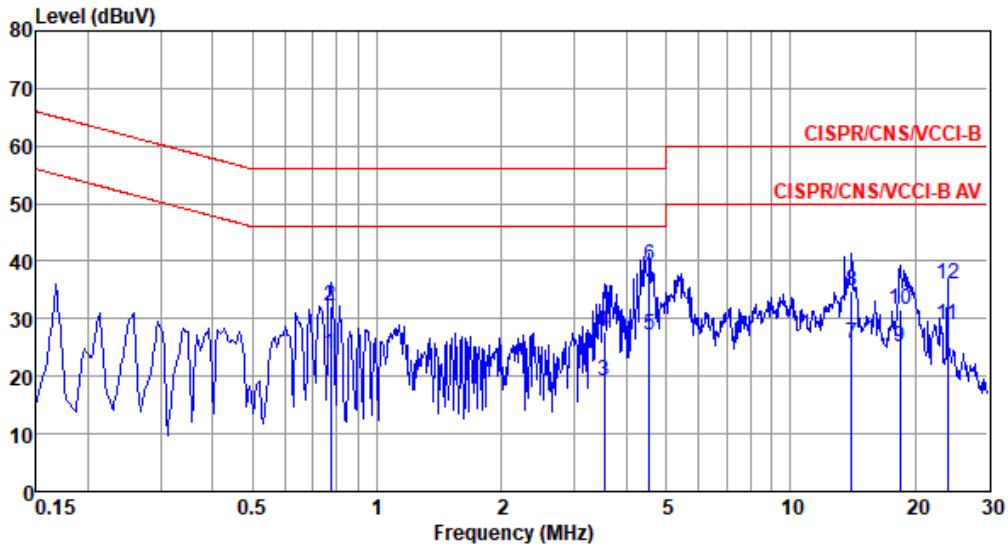
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.150	16.33	56.00	-39.67	6.37	9.68	0.08	0.20	Average
2	0.150	32.67	66.00	-33.33	22.71	9.68	0.08	0.20	QP
3	0.240	13.39	52.08	-38.69	3.37	9.68	0.08	0.26	Average
4	0.240	28.47	62.08	-33.61	18.45	9.68	0.08	0.26	QP
5	0.763	18.36	46.00	-27.64	8.17	9.68	0.14	0.37	Average
6	0.763	25.90	56.00	-30.10	15.71	9.68	0.14	0.37	QP
7	4.407	21.05	46.00	-24.95	10.69	9.70	0.24	0.42	Average
8*	4.407	34.28	56.00	-21.72	23.92	9.70	0.24	0.42	QP
9	18.426	24.10	50.00	-25.90	13.13	9.73	0.63	0.61	Average
10	18.426	31.45	60.00	-28.55	20.48	9.73	0.63	0.61	QP
11	24.000	27.37	50.00	-22.63	16.32	9.70	0.68	0.67	Average
12	24.000	34.96	60.00	-25.04	23.91	9.70	0.68	0.67	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
 Note 2: Over Limit (dB) = Level (dBuV) - Limit Line (dBuV).



Modulation	BT-LE(1Mbps)	Test Freq. (MHz)	2402
Power Phase	Neutral		

Test by : Joe Liao Temperature: 20°C Humidity: 63%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.771	23.88	46.00	-22.12	13.88	9.61	0.14	0.25	Average
2	0.771	32.07	56.00	-23.93	22.07	9.61	0.14	0.25	QP
3	3.547	19.33	46.00	-26.67	9.16	9.64	0.21	0.32	Average
4	3.547	27.69	56.00	-28.31	17.52	9.64	0.21	0.32	QP
5	4.549	27.17	46.00	-18.83	16.94	9.65	0.24	0.34	Average
6*	4.549	39.38	56.00	-16.62	29.15	9.65	0.24	0.34	QP
7	14.063	25.72	50.00	-24.28	14.99	9.74	0.54	0.45	Average
8	14.063	34.93	60.00	-25.07	24.20	9.74	0.54	0.45	QP
9	18.426	25.24	50.00	-24.76	14.37	9.78	0.63	0.46	Average
10	18.426	31.69	60.00	-28.31	20.82	9.78	0.63	0.46	QP
11	24.000	29.08	50.00	-20.92	18.11	9.78	0.68	0.51	Average
12	24.000	35.96	60.00	-24.04	24.99	9.78	0.68	0.51	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).