	    <p>CERTIFICATE 2518.08</p> <p>MS ISO/IEC 17025 TESTING SAMM NO. 0825</p>
<p>MOTOROLA PENANG ADV. COMM. LABORATORY Motorola Solutions Malaysia Sdn Bhd, Plot 2A, Medan Bayan Lepas, Mukim 12 S.W.D, 11900 Bayan Lepas, Penang, Malaysia.</p>	<p>FCC / ISED TEST REPORT Report Revision : Rev.A</p>
<p>Date/s Tested : 05-August-2022 - 16-August-2022 Manufacturer/Location : Motorola Solutions Malaysia Sdn Bhd Manufacturer Address : Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia Requestor : CADOGAN SEAN Product Type : Hand-held Product Version (PMN) : APX N70 Model Number (HVIN) : H35UCT9PW8AN Frequency Band : Refer to section 1.4 Applicant Name : Motorola Solutions Inc Applicant Address : 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322. FCC Registrations : 461337 ISED Registrations : MY0001 Firmware Version (FVIN) : D00.00.45</p> <p>The equipment was tested accordance to the requirement listed below:</p> <p>(LTE Band 17) FCC 47 CFR Part 2 / 27 PASS ISED RSS GEN / 130</p>	
<p>This report shall not be reproduced without written approval from an officially designated representative of the Motorola Penang Adv. Comm. Laboratory. The results and statements contained in this report pertain only to the device(s) evaluated.</p>	
<p>Prepared By:</p> <p>_____</p> <p>Lim Khay Kwang Technician</p>	<p>Approve Signatory:</p> <p>_____</p> <p>Ho Sze Khian Technical Manager</p>

Table of Contents

1.0.	Summary of Test Results	3
1.1.	Measurement Uncertainty	3
1.2.	Equipment List.....	4
1.3.	General Information.....	4
1.4.	Channel number and frequency info.....	6
1.5.	Test Mode Applicability and Tested Channel Detail.....	6
1.6.	Conducted RF Output Power	8
1.6.1.	Test Setup.....	8
1.6.2.	Limits	8
1.6.3.	Conducted RF Output Power – LTE Band 17 (704-716MHz)	8
1.6.4.	Effective Radiated Power (ERP) - LTE Band 17 (704-716MHz)	9
1.7.	Peak-to-Average Power Ratio.....	11
1.7.1.	Test Setup.....	11
1.7.2.	Test Limit	11
1.7.3.	Peak-to-Average Power Ratio – LTE Band 17 (704-716MHz).....	12
1.8.	Occupied Bandwidth.....	14
1.8.1.	Test Setup.....	14
1.8.2.	Test Limit	14
1.8.3.	Occupied Bandwidth – LTE Band 17 (704-716MHz).....	14
1.9.	Frequency Stability	18
1.9.1.	Test Setup.....	18
1.9.2.	Test Limit	18
1.9.3.	Frequency Stability – LTE Band 17 (704-716MHz)	19
1.10.	Band Edge Conducted Spurious Emission	21
1.10.1.	Test Setup	21
1.10.2.	Test Limit	21
1.10.3.	Band Edge / Emission Mask Conducted Spurious Emission – LTE Band 17 (704-716MHz) 22	
1.11.	Conducted Spurious Emission	26
1.11.1.	Test Setup	26
1.11.2.	Test Limit	26
1.11.3.	Conducted Spurious Emissions – LTE Band 17 (704-716MHz)	26
1.12.	Radiated Spurious Emission	30
1.12.1.	Test Setup	30
1.12.2.	Test Limit	30
1.12.3.	Radiated Spurious Emission – LTE Band 17 (704-716MHz).....	31
1.13.	Equivalent Isotropically Radiated Power (EIRP)	40
1.13.1.	Test Setup	40
1.13.2.	Test Limit	40
1.13.3.	Equivalent Isotropically Radiated Power (EIRP) - LTE Band 17 (704-716MHz).....	40

REVISION HISTORY

Revision History	Description	Date	Originator
Rev A.	Initial Report	23-August-2022	Lim Khay Kwang

1.0. Summary of Test Results

FCC Clause	ISED Clause	Test Item	Results	Remarks	Serial Number Tested
2.1046	RSS-Gen 6.12 RSS-130 4.1	Conducted RF Output Power	Pass	Meet the requirement of limit	022TYP0011
-	RSS 130 4.4	Peak-to-Average Power Ratio	Pass	Meet the requirement of limit	022TYP0011
2.1046	RSS-Gen 6.7	Occupied Bandwidth (26dBc, 99%)	Pass	Meet the requirement of limit	022TYP0011
2.1055 27.54	RSS-130 4.3	Frequency Stability	Pass	Meet the requirement of limit	022TYP0011
2.1051 27.53(g)	RSS-Gen 6.13 RSS-130 4.6	Band Edge Conducted Spurious Emission	Pass	Meet the requirement of limit	022TYP0011
2.1051 27.53(g)	RSS-Gen 6.13 RSS-130 4.6	Conducted Spurious Emissions	Pass	Meet the requirement of limit	022TYP0011
2.1053 27.53 (g)	RSS-130 4.6	Radiated Spurious Emission: -43.0686 dBm (NF)	Pass	Meet the requirement of limit	022TYP0004
2.1049 27.50(c)(9)(10)	RSS-130 4.4	Effective Radiated Power (ERP)	NA	NA	NA

1.1. Measurement Uncertainty

Measurement	Frequency	Expanded Uncertainty (k=1.96) (±dB)
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	5.01
	200MHz ~ 1000MHz	5.01
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.01
	18GHz ~ 25GHz	5.01

1.2. Equipment List

Description	Model	Serial Number	Calibration Date	Calibration Due Date
Broadband ATE 1 (RF Conducted Tests); Test Software Version: CMWRun v1.9.8				
Signal Analyzer	FSV40	101431	02-Dec-21	02-Dec-23
Chamber	SH-641	92003150	17-Sep-21	17-Sep-22
Wideband Radio Communication Tester	CMW500	154550	07-Mar-21	07-Mar-23
Power Supply	6652A	3541A02565	29-Jun-22	29-Jun-23
Radiated Spurious Emission (EMC Chamber 1); Test Software Version: EMC_FCC_RE_v1.6.4				
Drg Horn Freq.	SAS-571	720	06-Apr-21	06-Apr-23
Drg Horn Freq.	SAS-571	719	13-Sep-21	13-Sep-22
Advanced Power System - Dynamic Dc Power Supply, 120v, 16.7a, 2000w	N7976A	MY53410110	30-Jun-22	30-Jun-23
Signal Generator	SMB 100A	182511	04-Jun-21	04-Jun-24
Emi Test Receiver	ESW44	101731	05-Nov-21	05-Nov-22
5m Semi-Anechoic Chamber	S800-HX	J2308	No Cal. Req'd	No Cal. Req'd
Bilog Antenna	CBL6112B	2863	22-Jun-22	22-Jun-23
Bilog Antenna	CBL6112D	30991	05-Oct-21	05-Oct-22
Data Logger Thermohygrometer	SDL500	A.016785	23-Jun-22	23-Jun-23
System Controller	SC104V	050806-1	No Cal. Req'd	No Cal. Req'd
Turtable Flush Mount 2m	FM2011	NA	No Cal. Req'd	No Cal. Req'd
Antenna Positioning Tower	TLT2	NA	No Cal. Req'd	No Cal. Req'd
Broad-Band Horn Antenna	BBHA9170	BBHA9170255	18-Feb-22	18-Feb-23
Preamplifier 18-40ghz	BBV9721	9721-007	No Cal. Req'd	No Cal. Req'd
Preamplifier	PAM-0118P	361	11-Sep-20	11-Sep-23
Loop Antenna	6502	00208416	08-Oct-21	08-Oct-22
Test Software	EMC_FCC_IC_BLUETOOTH_RE_TEST			

1.3. General Information

General Description of EUT

Product	ALOHA		
Brand	Motorola Solutions		
Test Model	H35UCT9PW8AN		
Power Supply Rating	7.5Vdc		
Mode of operation	LTE Band 17		
Modulation Type	QPSK, 16QAM		
Operating Frequency	LTE Band 17	Channel Bandwidth 5MHz	706.5MHz~713.5MHz
		Channel Bandwidth 10MHz	709.0MHz~711.0MHz
Max. Conducted Power	LTE Band 17 QPSK	Channel Bandwidth 5MHz	23.017dBm (0.200W)
		Channel Bandwidth 10MHz	23.264dBm (0.212W)
	LTE Band 17	Channel Bandwidth 5MHz	22.208dBm (0.166W)

	16QAM	Channel Bandwidth 10MHz	22.588dBm (0.181W)	
Emission Designator	LTE Band 17		QPSK	16QAM
		Channel Bandwidth 5MHz	4M47G7D	4M47D7W
		Channel Bandwidth 10MHz	8M91G7D	8M95D7W
Antenna Type	LTE Band 17	LTE LOW BAND MAIN ANTENNA (-2.9dBi)		
SW Version	D00.00.45			
HW Version	P1			

Note:

1. The EUT contains following accessory devices and data cable.

Item	Brand	Model or P/N	Specification
Li-Ion	Motorola	PMNN4817A	Hi Cap 4400mAH (using RN 2170 Li-Ion cell) Non-UL battery

Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	Product	Brand	Model No.	Serial No.	FCC ID
1	Wideband Radio Communication Tester	R&S	CMW500	154550	NA

NO.	Signal Cable Description of The above Support Units
1	NA

Note:

1. All power cords of the above support units are non-shielded.
2. Item 1 acted as a communication partner to transfer data.

EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

KDB 971168 D01 Power Meas License Digital Systems v03r01

KDB 971168 D02 Misc OOB License Digital Systems v02r01

ANSI C63.26

NOTE: All test items have been performed and recorded as per the above standards.

1.4. Channel number and frequency info

Band	Bandwidth supported	Available Channel Number	Test Channel Number			Test Channel Frequency (MHz)		
			Low Channel	Mid Channel	High Channel	Low Channel	Mid Channel	High Channel
LTE Band 17	5 MHz	23755 ~ 23825	23755	23790	23825	706.5	710	713.5
	10 MHz	23780 ~ 23800	23780	23790	23800	709	710	711

1.5. Test Mode Applicability and Tested Channel Detail

LTE Band 17

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Uplink Modulation	Mode
Conducted RF Output Power	23755 ~ 23825	23755, 23790, 23825	5 MHz	QPSK, 16QAM	As per table 1.6.3
	23780 ~ 23800	23780, 23790, 23800	10 MHz		
Peak to Average Power Ratio	23755 ~ 23825	23755, 23790, 23825	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
	23780 ~ 23800	23780, 23790, 23800	10 MHz		50 RB / 0 RB Offset
Occupied Bandwidth	23755 ~ 23825	23755, 23790, 23825	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
	23780 ~ 23800	23780, 23790, 23800	10 MHz		50 RB / 0 RB Offset
Frequency Stability	23755 ~ 23825	23755, 23825	5 MHz	QPSK	25 RB / 0 RB Offset
	23780 ~ 23800	23780, 23800	10 MHz		50 RB / 0 RB Offset
Band Edge Conducted Spurious Emission	23755 ~ 23825	23755, 23825	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
	23780 ~ 23800	23780, 23800	10 MHz		1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
Conducted Spurious Emission	23755 ~ 23825	23755, 23790, 23825	5 MHz	QPSK	1 RB / 0 RB Offset
	23780 ~ 23800	23780, 23790, 23800	10 MHz		1 RB / 0 RB Offset
Radiated Spurious Emission	23755 ~ 23825	23755	10 MHz	QPSK	1 RB / 0 RB Offset
	23780 ~ 23800	23790	10 MHz		1 RB / 0 RB Offset
	23780 ~ 23800	23800	10 MHz		1 RB / 0 RB Offset
Effective Radiated Power (ERP)	23755 ~ 23825	23755, 23790, 23825	5 MHz	QPSK, 16QAM	As per table 1.6.4
	23780 ~ 23800	23780, 23790, 23800	10 MHz		

NOTE:

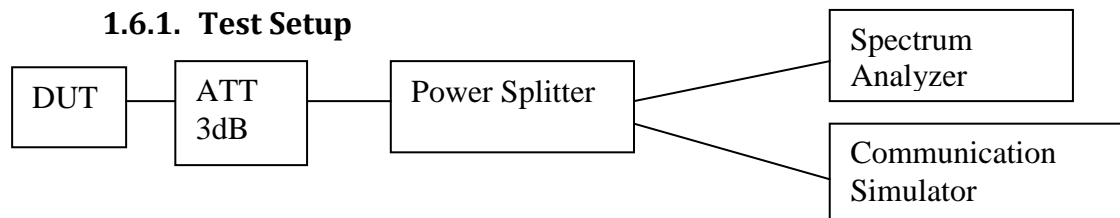
1. The Conducted RF Output Power for QPSK and 16QAM, measured value of QPSK mode is higher than 16QAM mode. Therefore, only Conducted Spurious Emission and Radiated Emission had been tested under QPSK modes.
2. Band Edge was performed with 1 and full Resource Block at the lowest and highest operating frequency band.
3. The Effective Radiated Power (ERP) was calculated from Conducted RF Output Power results in QPSK and 16QAM modulation.
4. Peak to Average and Occupied Bandwidth were performed with full Resource Block which is the worst case.
5. Frequency stability was performed with full Resource Block in QPSK modulation.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
Conducted RF Output Power	25°C, 50% RH	7.5V DC	Khay Kwang
Peak-to-Average Power Ratio	25°C, 50% RH	7.5V DC	Khay Kwang
Occupied Bandwidth	25°C, 50% RH	7.5V DC	Khay Kwang
Frequency Stability	25°C, 50% RH	7.5V DC	Khay Kwang
Band Edge Conducted Spurious Emission	25°C, 50% RH	7.5V DC	Khay Kwang
Conducted Spurious Emission	25°C, 50% RH	7.5V DC	Khay Kwang
Radiated Spurious Emission	25°C, 63.7% RH	7.5V DC	Qawiman&Nazrin
Equivalent Isotropically Radiated Power (EIRP)	25°C, 63.7% RH	7.5V DC	Khay Kwang

1.6. Conducted RF Output Power

1.6.1. Test Setup



1. The DUT transmitter output port was connected to communication simulator with above setup.
2. Path loss for the measurement included.
3. Set DUT to transmit maximum power through communication simulator
4. All the measurement was done at low, mid, high channel for each band and different modulation.
5. Record the average power into the test report.

1.6.2. Limits

FCC: Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

ISED: The e.i.r.p. shall not exceed 50 watts for mobile equipment or for outdoor fixed subscriber equipment, nor shall it exceed 5 watts for portable equipment or for indoor fixed subscriber equipment.

1.6.3. Conducted RF Output Power – LTE Band 17 (704-716MHz)

Conducted Output Power (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			23755	23790	23825	23755	23790	23825
			706.5MHz	710.0MHz	713.5MHz	706.5MHz	710.0MHz	713.5MHz
Band 17 / 5MHz	1	0	23.017	22.904	22.78	22.19	21.941	21.79
	1	13	22.942	22.881	22.857	22.208	21.964	21.948
	1	24	22.994	22.887	22.823	22.154	21.94	21.868
	12	0	22.032	21.912	21.833	21.06	20.855	20.835
	12	6	21.971	21.859	21.882	21	20.816	20.936
	12	13	21.885	21.933	21.856	20.919	20.903	20.921
	25	0	21.991	21.891	21.928	20.998	20.912	20.86

Conducted Output Power (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			23780	23790	23800	23780	23790	23800
			709.0MHz	710.0MHz	711.0MHz	709.0MHz	710.0MHz	711.0MHz
Band 17 / 10MHz	1	0	23.219	23.264	23.203	22.588	22.273	22.265
	1	25	22.871	22.932	22.864	22.215	21.859	21.916
	1	49	23.065	23.068	23.038	22.37	22.113	22.122
	25	0	22.094	21.932	21.956	21.154	21.012	21.076
	25	13	21.96	21.905	21.885	21.014	21.028	20.987
	25	25	21.896	21.929	22.029	20.957	21.049	21.051
	50	0	22.04	22.06	22.032	21.077	21.056	21.036

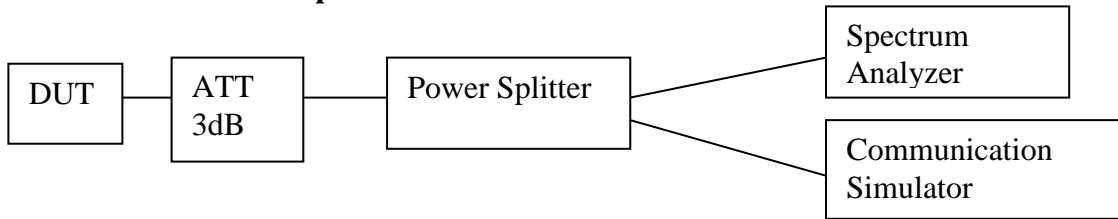
1.6.4 Effective Radiated Power (ERP) - LTE Band 17 (704-716MHz)

ERP (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			23755	23790	23825	23755	23790	23825
			706.5MHz	710.0MHz	713.5MHz	706.5MHz	710.0MHz	713.5MHz
Band 17 / 5MHz	1	0	17.967	17.854	17.73	17.14	16.891	16.74
	1	13	17.892	17.831	17.807	17.158	16.914	16.898
	1	24	17.944	17.837	17.773	17.104	16.89	16.818
	12	0	16.982	16.862	16.783	16.01	15.805	15.785
	12	6	16.921	16.809	16.832	15.95	15.766	15.886
	12	13	16.835	16.883	16.806	15.869	15.853	15.871
	25	0	16.941	16.841	16.878	15.948	15.862	15.81

ERP (dBm)								
LTE Band/BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH	Mid CH	High CH	Low CH	Mid CH	High CH
			23780	23790	23800	23780	23790	23800
			709.0MHz	710.0MHz	711.0MHz	709.0MHz	710.0MHz	711.0MHz
Band 17 / 10MHz	1	0	18.169	18.214	18.153	17.538	17.223	17.215
	1	25	17.821	17.882	17.814	17.165	16.809	16.866
	1	49	18.015	18.018	17.988	17.32	17.063	17.072
	25	0	17.044	16.882	16.906	16.104	15.962	16.026
	25	13	16.91	16.855	16.835	15.964	15.978	15.937
	25	25	16.846	16.879	16.979	15.907	15.999	16.001
	50	0	16.99	17.01	16.982	16.027	16.006	15.986

1.7. Peak-to-Average Power Ratio

1.7.1. Test Setup



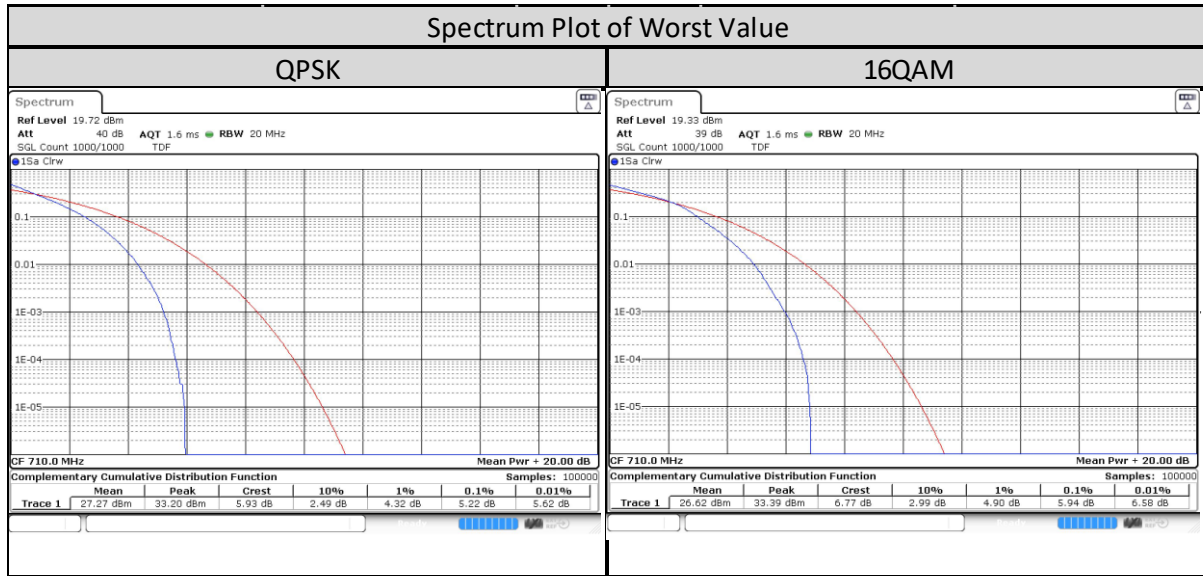
1. The DUT transmitter output port was connected to communication simulator with above setup.
2. Path loss for the measurement included.
3. Set DUT to transmit maximum power through communication simulator
4. Set the CCDF (Complementary Cumulative Distribution Function) option in the spectrum analyzer.
5. Spectrum Analyzer setting, RBW = 20MHz.
6. Recorded the maximum PAR level associated with a probability of 0.1% as Peak to Average Ratio.
7. All the measurement was done at low, mid, high channel for each band and different modulation.

1.7.2. Test Limit

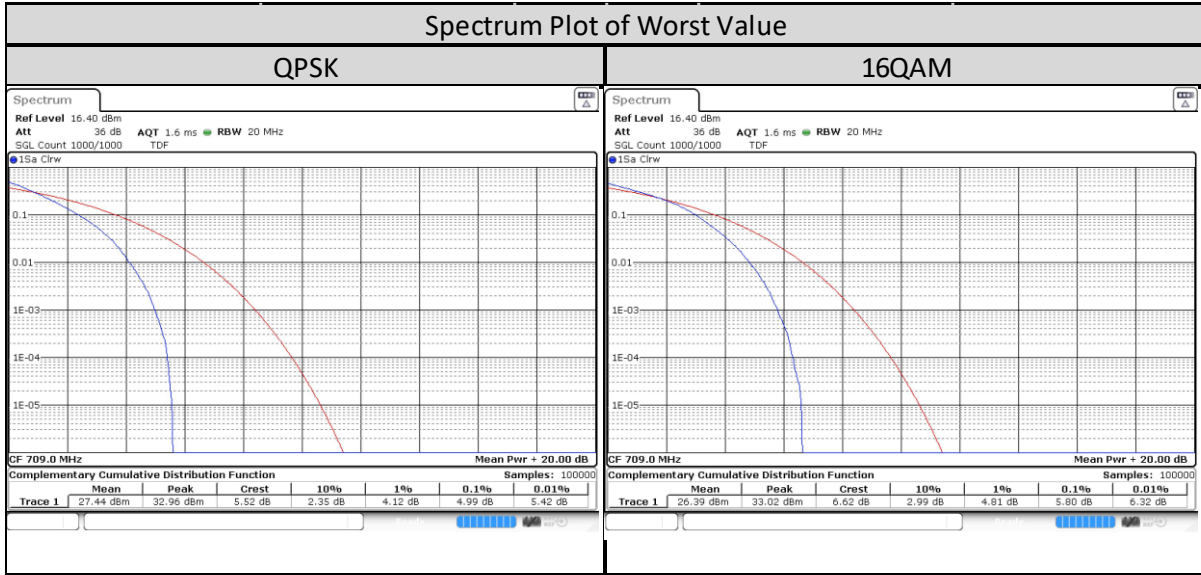
In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

1.7.3. Peak-to-Average Power Ratio - LTE Band 17 (704-716MHz)

LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 17/5MHz/25/0	Low CH 23755	706.5 MHz	4.812	5.594
	Mid CH 23790	710 MHz	5.217	5.942
	High CH 23825	713.5 MHz	4.696	5.594

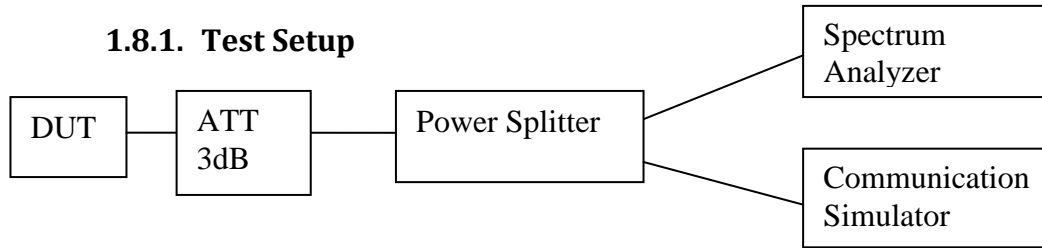


LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 17/10MHz/50/0	Low CH 23780	709 MHz	4.986	5.797
	Mid CH 23790	710 MHz	4.899	5.71
	High CH 23800	711 MHz	4.696	5.681



1.8. Occupied Bandwidth

1.8.1. Test Setup



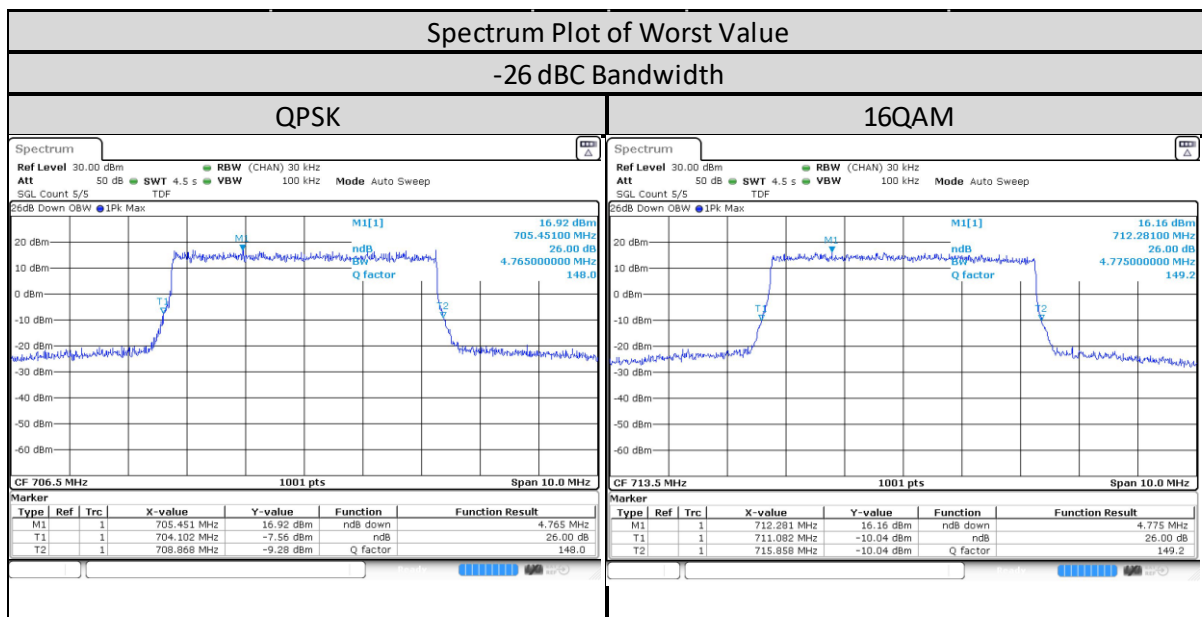
- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) For LTE measurement, set DUT to transmit maximum power & full RB size through communication simulator.
- 4) For LTE measurement, set DUT to transmit maximum power through communication simulator.
- 5) Spectrum Analyzer setting, RBW is 1% of OBW and VBW is 3 times of RBW.
- 6) Measure & record -26dBc and 99% occupied bandwidth (BW).
- 7) All the measurement was done at low, mid, high channel for each band and different modulation.

1.8.2. Test Limit

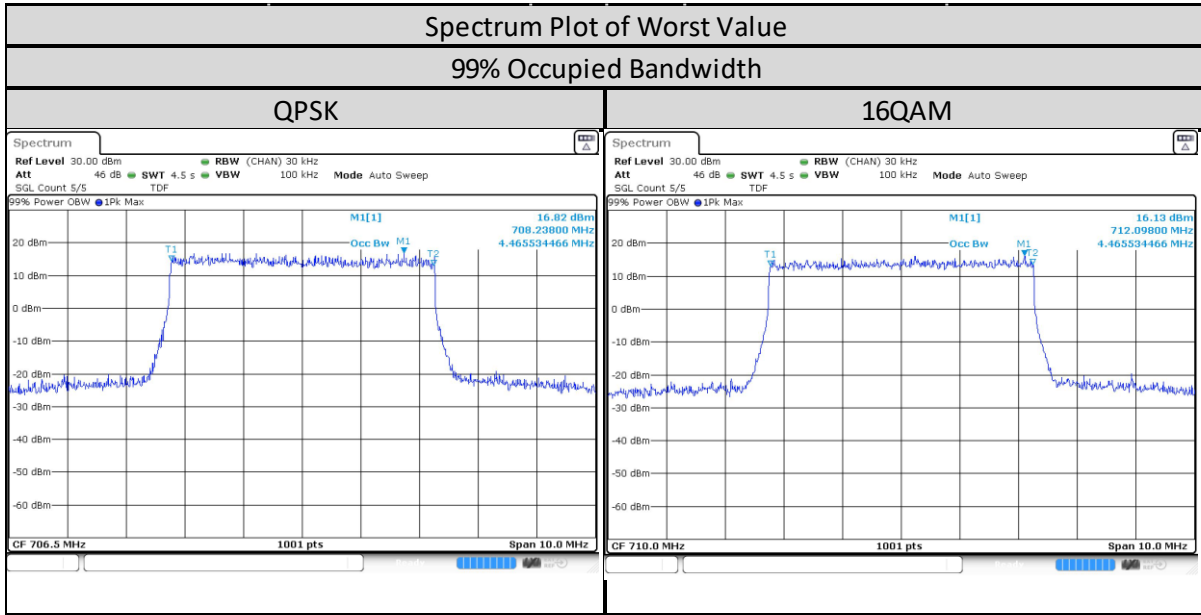
For measurement 99% of occupied bandwidth that is required by FCC 2.1049 and RSS Gen 6.6.

1.8.3. Occupied Bandwidth - LTE Band 17 (704-716MHz)

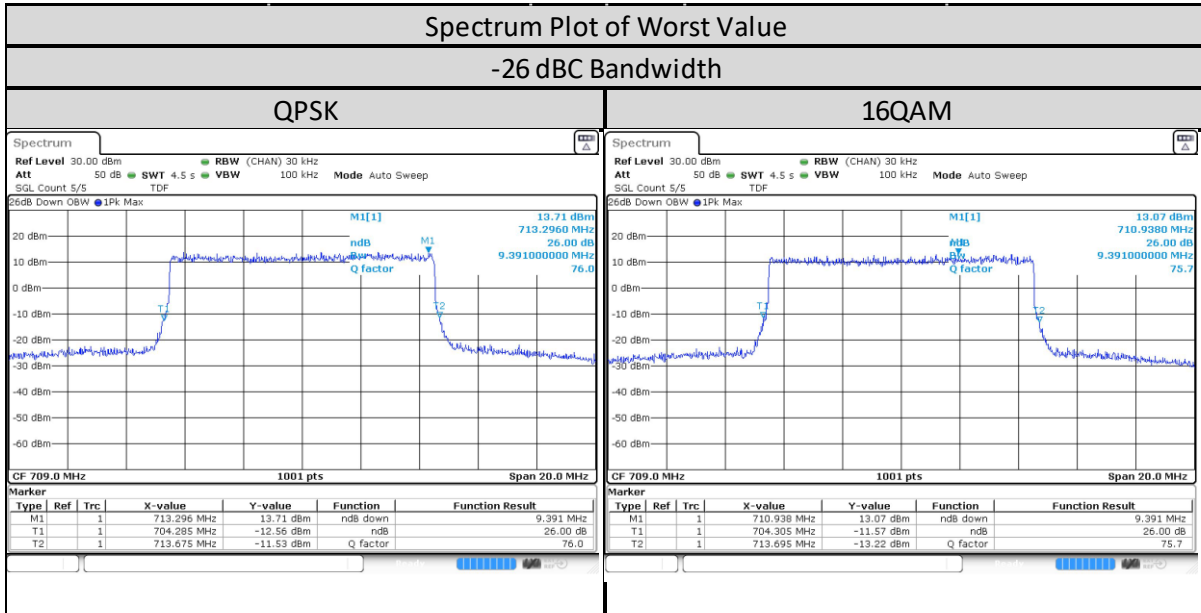
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 17/5MHz/25/0	Low CH 23755	706.5 MHz	4.765	4.735
	Mid CH 23790	710 MHz	4.755	4.735
	High CH 23825	713.5 MHz	4.745	4.775



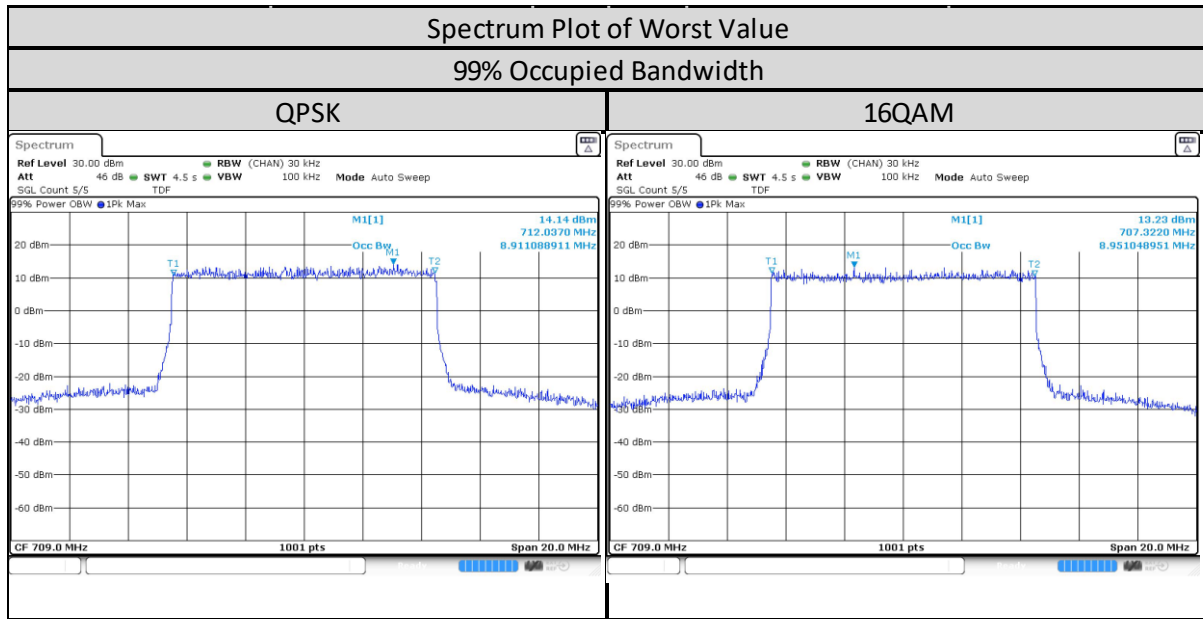
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 17/5MHz/25/0	Low CH 23755	706.5 MHz	4.466	4.456
	Mid CH 23790	710 MHz	4.456	4.466
	High CH 23825	713.5 MHz	4.456	4.466



LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 17/10MHz/50/0	Low CH 23780	709 MHz	9.391	9.391
	Mid CH 23790	710 MHz	9.291	9.271
	High CH 23800	711 MHz	9.331	9.311

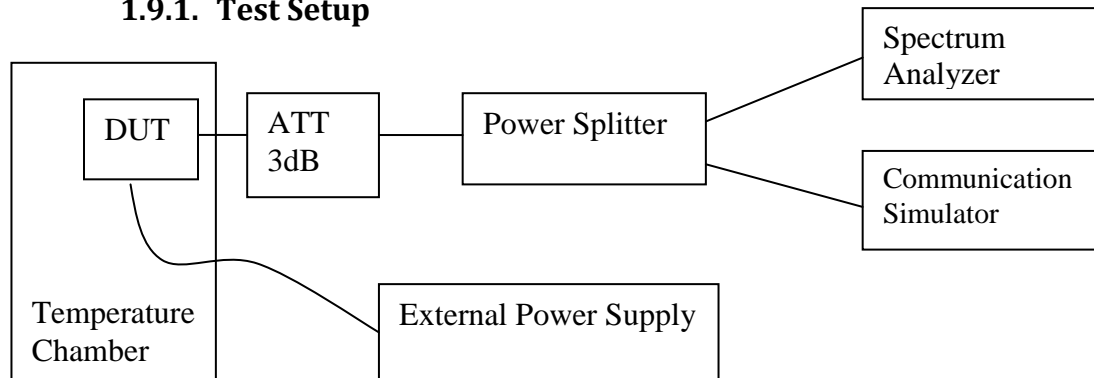


LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 17/10MHz/50/0	Low CH 23780	709 MHz	8.911	8.951
	Mid CH 23790	710 MHz	8.891	8.931
	High CH 23800	711 MHz	8.911	8.911



1.9. Frequency Stability

1.9.1. Test Setup



- 1) The DUT is placed in the temperature chamber and DUT is power up by external power supply to control the DC input voltage.
- 2) The temperature chamber could control the temperature and humidity and external power supply could control the test voltage range from minimum to maximum operating voltage.
- 3) Measured frequency error from the communication simulator by vary below step :
 - i. Vary temperature of the temperature chamber from -30 ~ 60 deg C (10 deg C / Step) and set external supply voltage constant at nominal voltage.
 - ii. Vary external supply voltage from minimum to maximum operation voltage support by DUT and set temperature chamber constant at room temp.
- 4) All the measurement was done at mid channel for each band.

1.9.2. Test Limit

As per manufacturer declared product operating at -30 to 60 deg C with spec of +/- 0.1ppm.

1.9.3. Frequency Stability - LTE Band 17 (704-716MHz)

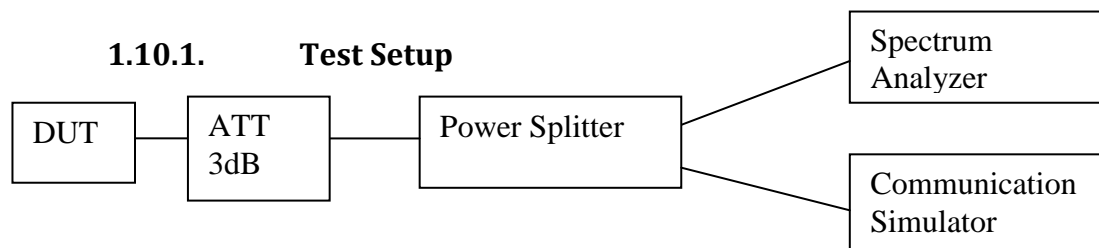
Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 5 MHz			
		Low Channel		High Channel	
		706.5MHz		713.5MHz	
LTE Band 17		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	60	706.500005	0.007127	713.500004	0.005774
	50	706.500005	0.00652	713.500004	0.005153
	40	706.500005	0.007492	713.500004	0.005093
	30	706.500004	0.005163	713.500004	0.005734
	20	706.500005	0.006783	713.500005	0.006576
	10	706.500005	0.007087	713.500005	0.007097
	0	706.500004	0.00569	713.500006	0.007719
	-10	706.500003	0.004698	713.500005	0.006897
	-20	706.500004	0.006115	713.500004	0.005714
-30	706.500004	0.005224	713.500005	0.006396	

Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 5 MHz			
		Low Channel		High Channel	
		706.5MHz		713.5MHz	
LTE Band 17		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	9	706.500003	0.003969	713.500004	0.005032
	7.5	706.500005	0.007451	713.500004	0.005614
	6	706.500003	0.003807	713.500004	0.005674

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 10 MHz			
		Low Channel		High Channel	
		709MHz		711MHz	
		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
LTE Band 17	60	709.000003	0.004721	710.999996	-0.005593
	50	708.999997	-0.004701	710.999997	-0.004044
	40	708.999997	-0.004479	710.999996	-0.005452
	30	708.999996	-0.005004	710.999996	-0.005151
	20	709.000003	0.004822	710.999997	-0.004145
	10	709.000005	0.006436	711.000004	0.005493
	0	709.000003	0.004459	711.000004	0.005131
	-10	709.000005	0.007062	711.000004	0.005855
	-20	709.000003	0.004842	710.999997	-0.004225
	-30	709.000003	0.005912	711.000004	0.005412

Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 10 MHz			
		Low Channel		High Channel	
		709MHz		711MHz	
		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
LTE Band 17	9	708.999995	-0.006376	710.999996	-0.005372
	7.5	708.999997	-0.004298	710.999996	-0.005171
	6	709.000003	0.004842	711.000003	0.004688

1.10. Band Edge Conducted Spurious Emission



- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) Set DUT to transmit maximum power through communication simulator.
- 4) The band edges of lowest and highest channels with the highest RF powers were measured.
- 5) The center frequency of spectrum is the band edge frequency, span is 3MHz, RBW is 1~3% of EBW and VBW is at least 3 times of RBW
- 6) Record the maximum trace plot into the test report.

1.10.2. Test Limit

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

1.10.3. Band Edge / Emission Mask Conducted Spurious Emission - LTE Band 17 (704-716MHz)

