

 MOTOROLA SOLUTIONS	 																																
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.	FCC / ISED TEST REPORT Report Revision : Rev.F																																
<table border="0"> <tr> <td>Date/s Tested</td> <td>: 05-May-2025 - 23-June-2025</td> </tr> <tr> <td>Report Issue Date</td> <td>: 07-July-2025</td> </tr> <tr> <td>Manufacturer/Location</td> <td>: Motorola Solutions INC. (Plantation)</td> </tr> <tr> <td>Manufacturer Address</td> <td>: Motorola Solutions INC. (Plantation), 8000 West Sunrise Blvd MD 41-128, USA Plantation FL 333222-9947</td> </tr> <tr> <td>Requestor</td> <td>: Stankovska Daniela</td> </tr> <tr> <td>Product Type</td> <td>: Hand-held</td> </tr> <tr> <td>Product Marketing Name (PMN)</td> <td>: APX NEXT</td> </tr> <tr> <td>Hardware Version Identification Number (HVIN)</td> <td>: H55TGT9PW8BN</td> </tr> <tr> <td>Frequency Band</td> <td>: Refer to section 1.4</td> </tr> <tr> <td>Max RF Output Power</td> <td>: 251.19mW</td> </tr> <tr> <td>Applicant Name</td> <td>: Motorola Solutions Inc</td> </tr> <tr> <td>Applicant Address</td> <td>: Plot 2A, Medan Bayan Lepas, Mukim 12, S.W.D. 11900 Bayan Lepas, Penang, Malaysia</td> </tr> <tr> <td>FCC Registrations</td> <td>: 461337</td> </tr> <tr> <td>ISED Registrations</td> <td>: MY0001</td> </tr> <tr> <td>Firmware Version Identification Number (FVIN)</td> <td>: D37.00.17 (BP), D37.00.02 (AP)</td> </tr> </table> The equipment was tested accordance to the requirement listed below: <table border="0"> <tr> <td> (LTE Band 5) FCC 47 CFR Part 2 / 22 ISED RSS-Gen (Issue 5), Amendment 1 (Mar 2019), Amendment 2 (Feb 2021) RSS-132 (Issue 4) </td> <td style="text-align: right; vertical-align: top;">PASS</td> </tr> </table>		Date/s Tested	: 05-May-2025 - 23-June-2025	Report Issue Date	: 07-July-2025	Manufacturer/Location	: Motorola Solutions INC. (Plantation)	Manufacturer Address	: Motorola Solutions INC. (Plantation), 8000 West Sunrise Blvd MD 41-128, USA Plantation FL 333222-9947	Requestor	: Stankovska Daniela	Product Type	: Hand-held	Product Marketing Name (PMN)	: APX NEXT	Hardware Version Identification Number (HVIN)	: H55TGT9PW8BN	Frequency Band	: Refer to section 1.4	Max RF Output Power	: 251.19mW	Applicant Name	: Motorola Solutions Inc	Applicant Address	: Plot 2A, Medan Bayan Lepas, Mukim 12, S.W.D. 11900 Bayan Lepas, Penang, Malaysia	FCC Registrations	: 461337	ISED Registrations	: MY0001	Firmware Version Identification Number (FVIN)	: D37.00.17 (BP), D37.00.02 (AP)	(LTE Band 5) FCC 47 CFR Part 2 / 22 ISED RSS-Gen (Issue 5), Amendment 1 (Mar 2019), Amendment 2 (Feb 2021) RSS-132 (Issue 4)	PASS
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Revision History

Revision History	Description	Date	Originator
Rev. A	Initial Report	07-July-2025	Nur Amanina
Rev. B	1.Update Antenna type from Stamped Metal to PIFA. 2.Update antenna gain from 0.7dBi to -1.7dBi. 3.Update ERP data.	06-August-2025	Nur Amanina
Rev. C	1.Changes of dBm to dB at Summary of result remark section. 2. Amend highest data from 23.447 to 23.463 under Conducted Power 1.4MHz data section. 3. Amend from Band 12 to Band 5 under ERP section. 4. Changes of RSS-Gen 6.6 to RSS-Gen 6.7 under ISSED Clause section.	08-August-2025	Nur Amanina
Rev. D	Changes of frequency and channel at 1.6.3 ERP section.	14-August-2025	Nur Amanina
Rev. E	1.Changes of remark between ERP and RSE at 1.0 section. 2.Add Test limit at 1.6.2 section.	18-August-2025	Nur Amanina
Rev. F	1. Add ERP and Radiated Spurious Emission data for diversity antenna.	25-August-2025	Nur Amanina

1.0. Summary of Test Results

FCC Clause	ISED Clause	Test Item	Result	Remark	Serial Number Tested
2.1046	RSS-Gen 6.12 RSS-132 5.4	Conducted RF Output Power	Pass	Meet the requirement of limit	437ZBG0235
--	RSS-132 5.4	Peak-to-Average Power Ratio	Pass	Meet the requirement of limit	437ZBG0235
2.1049 22.917	RSS-Gen 6.7	Occupied Bandwidth (26dBc, 99%)	Pass	Meet the requirement of limit	437ZBG0235
2.1055 22.355	RSS-Gen 6.11 RSS-132 5.3	Frequency Stability	Pass	Meet the requirement of limit	437ZBG0235
2.1051 22.917	RSS-Gen 6.13 RSS-132 5.5	Band Edge Conducted Spurious Emission	Pass	Meet the requirement of limit	437ZBG0235
2.1051 22.917	RSS-Gen 6.13 RSS-132 5.5	Conducted Spurious Emissions	Pass	Meet the requirement of limit	437ZBG0235
22.913(a)(5)	RSS-132 5.4	Effective Radiated Power (ERP)	Pass	Meet the requirement of limit	437ZBG0235
2.1053 22.917	RSS-132 5.5	Radiated Spurious Emissions	Pass	-50.7784dBm (Margin: 37.7784dB, Noise Floor) (Diversity)	437ZBG0594 (Main/Diversity)

1.1. Measurement Uncertainty

Measurement	Frequency	Expanded Uncertainty (k=1.96) (±dB)
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	4.03
	200MHz ~ 1000MHz	4.03
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	4.03
	18GHz ~ 25GHz	4.03

1.2. Equipment List

DESCRIPTION	MODEL	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
BROADBAND ATE 1 (RF CONDUCTED TESTS)				
WIDEBAND RADIO COMMUNICATION TESTER	CMW500	154550	16-Aug-24	16-Aug-25
WIDEBAND RADIO COMMUNICATION TESTER	CMW500	163061	19-AUG-24	19-AUG-25
SIGNAL ANALYZER	FSV40	101431	8-Aug-24	8-Aug-25
CHAMBER	SH-641	92003150	12-Sep-24	12-Sep-25
POWER SUPPLY	6652A	MY40001437	03-Mar-25	03-Mar-26
TEST SOFTWARE	R&S CMWrun			
VERSION	V.1.9.8			
RADIATED SPURIOUS EMISSION (EMC CHAMBER 1)				
DRG HORN FREQ.	SAS-571	566	09-Jan-25	09-Jan-26
DRG HORN FREQ.	SAS-571	719	09-Oct-24	09-Oct-25
DC POWER SUPPLY	6032A	MY41001736	05-Aug-24	05-Aug-25
SIGNAL GENERATOR	SMB 100A	180683	20-Dec-24	20-Dec-27
EMI TEST RECEIVER	ESW44	101750	07-Aug-24	07-Aug-25
5M SEMI-ANECHOIC CHAMBER	S800-HX	J2308	Not Required	Not Required
BILOG ANTENNA	CBL6112B	2964	08-Oct-24	08-Oct-25
BILOG ANTENNA	CBL6112D	55546	05-Jun-24	05-Jun-25
DATA LOGGER THERMOHYGROMETER	SDL500	A.016800	26-Jun-24	26-Jun-25
SYSTEM CONTROLLER	SC104V	050806-1	Not Required	Not Required
TURNTABLE FLUSH MOUNT 2M	FM2011	FM2011-001	Not Required	Not Required
ANTENNA POSITIONING TOWER	TLT2	090308-5	Not Required	Not Required
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170143	Not Required	Not Required
PREAMPLIFIER 18-40GHZ	JS44-18004000-33-8P	2034566	Not Required	Not Required
PREAMPLIFIER 1-18GHZ	EMC0518A45SE	980890	04-Aug-24	04-Aug-25
PREAMPLIFIER	PAM-0118P	269	27-Aug-24	27-Aug-25
LOOP ANTENNA	6502	00208416	08-Oct-24	08-Oct-25
TEST SOFTWARE	EMC.FCC.IC.RE.v1.7.1			
VERSION	1.7.1			

1.3.General Information

General Description of EUT

Product	APX NEXT			
Brand	Motorola Solutions			
Test Model	H55TGT9PW8BN			
Power Supply Rating	7.5 Vdc			
Mode of Operation	LTE Band 5			
Modulation Type	QPSK, 16QAM			
Operating Frequency	LTE Band 5 (part 22)	Channel Bandwidth 1.4MHz	824.7MHz~848.3MHz	
		Channel Bandwidth 3MHz	825.5MHz~847.5MHz	
		Channel Bandwidth 5MHz	826.5MHz~846.5MHz	
		Channel Bandwidth 10MHz	829.0MHz~844.0MHz	
Max. Conducted RF Output Power	LTE Band 5 (part 22) QPSK	Channel Bandwidth 1.4MHz	23.463dBm (0.222W)	
		Channel Bandwidth 3MHz	23.454dBm (0.222W)	
		Channel Bandwidth 5MHz	23.523dBm (0.225W)	
		Channel Bandwidth 10MHz	23.523dBm (0.225W)	
	LTE Band 5 (part 22) 16QAM	Channel Bandwidth 1.4MHz	22.612dBm (0.182W)	
		Channel Bandwidth 3MHz	22.677dBm (0.185W)	
		Channel Bandwidth 5MHz	22.698dBm (0.186W)	
		Channel Bandwidth 10MHz	22.739dBm (0.188W)	
Emission Designator	LTE Band 5 (part 22)		QPSK	16QAM
		Channel Bandwidth 1.4MHz	1M07G7D	1M07D7W
		Channel Bandwidth 3MHz	2M68G7D	2M68D7W
		Channel Bandwidth 5MHz	4M48G7D	4M48D7W
		Channel Bandwidth 10MHz	8M95G7D	8M93D7W
Antenna Type	LTE Band 5 (part 22)	PIFA, Antenna LTE Main 824-849MHz (-1.7dBi)		
		ILA, Antenna Diversity Low Band 824-849MHz (0dBi)		
SW Version	D37.00.17 (BP), D37.00.02 (AP)			
HW Version	P2			

NOTE: Band B5 can operate with either Main antenna or Diversity low band antenna. Both are using a common transmitter chain.

Note:

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

Item	Brand	Model or P/N	Specification
Li-Ion Battery	MOTOROLA	PMNN4895A	BATTERY PACK, BATT IMPRES 2 LIION IP68 5800T

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
2	Wideband Radio Communication Tester	R&S	CMW500	163061	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:

KDB 971168 D01 Power Meas License Digital Systems v03r01
ANSI C63.26-2015

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 5	1.4 MHz	20407~ 20643	20407	20525	20643	824.7	836.5	848.3
	3 MHz	20415~ 20635	20415	20525	20635	825.5	836.5	847.5
	5 MHz	20425~20625	20425	20525	20625	826.5	836.5	846.5
	10 MHz	20450~ 20600	20450	20525	20600	829	836.5	844

1.5. Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The Radiated Emission and Effective Radiated Power (ERP) worst case was found when positioned on Z-Plane for LTE band 26 (part 22).

Pre-scan also have been conducted with the accessory devices listed in section table 1.3, only the worst case radiated emission results of the combination test configuration is reported in this report.

The following channel(s) was (were) selected for the final test as listed below:

LTE Band 5

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted RF Output Power	20407~ 20643	20407, 20525, 20643	1.4 MHz	QPSK, 16QAM	As per table 1.6.2
	20415~ 20635	20415, 20525, 20635	3 MHz		
	20425~ 20625	20425, 20525, 20625	5 MHz		
	20450~ 20600	20450, 20525, 20600	10 MHz		
Peak to Average Power Ratio	20407~ 20643	20407, 20525, 20643	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
	20415~ 20635	20415, 20525, 20635	3 MHz		15 RB / 0 RB Offset
	20425~ 20625	20425, 20525, 20625	5 MHz		25 RB / 0 RB Offset
	20450~ 20600	20450, 20525, 20600	10 MHz		50 RB / 0 RB Offset
Occupied Bandwidth	20407~ 20643	20407, 20525, 20643	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
	20415~ 20635	20415, 20525, 20635	3 MHz		15 RB / 0 RB Offset
	20425~ 20625	20425, 20525, 20625	5 MHz		25 RB / 0 RB Offset
	20450~ 20600	20450, 20525, 20600	10 MHz		50 RB / 0 RB Offset
Frequency Stability	20407~ 20643	20525	1.4 MHz	QPSK	6 RB / 0 RB Offset
	20415~ 20635	20525	3 MHz		15 RB / 0 RB Offset
	20425~ 20625	20525	5 MHz		25 RB / 0 RB Offset
	20450~ 20600	20525	10 MHz		50 RB / 0 RB Offset

Band Edge Conducted Spurious Emission	20407~ 20643	20407, 20643	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset 1 RB / 5 RB Offset 6 RB / 0 RB Offset
	20415~ 20635	20415, 20635	3 MHz		1 RB / 0 RB Offset 1 RB / 14 RB Offset 15 RB / 0 RB Offset
	20425~ 20625	20425, 20625	5 MHz		1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
	20450~ 20600	20450, 20600	10 MHz		1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
Conducted Spurious Emission	20407~ 20643	20407, 20525, 20643	1.4 MHz	QPSK	3 RB / 0 RB Offset
	20415~ 20635	20415, 20525, 20635	3 MHz		1 RB / 7 RB Offset
	20425~20625	20425, 20525, 20625	5 MHz		1 RB / 13 RB Offset
	20450~ 20600	20450, 20525, 20600	10 MHz		1 RB / 0 RB Offset
Radiated Emission	20450~ 20600	20450	10 MHz	QPSK	1 RB / 0 RB Offset
	20425~20625	20525	5 MHz		1 RB / 13 RB Offset
	20450~ 20600	20600	10 MHz		1 RB / 0 RB Offset
Effective Radiated Power (ERP)	20407~ 20643	20407, 20525, 20643	1.4 MHz	QPSK, 16QAM	1 RB / 5 RB Offset
	20415~ 20635	20415, 20525, 20635	3 MHz		1 RB / 0 RB Offset
	20425~20625	20425, 20525, 20625	5 MHz		1 RB / 0 RB Offset
	20450~ 20600	20450, 20525, 20600	10 MHz		1 RB / 0 RB Offset

NOTE:

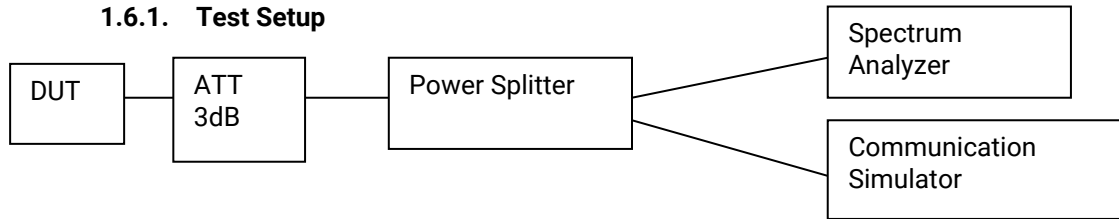
1. The Conducted RF Output Power for QPSK and 16QAM, measured value of QPSK is higher than 16QAM mode. Therefore, only Conducted Spurious Emission and Radiated Emission had been tested under QPSK modes.
2. Band Edge was performed with 1 and full Resource Block at the lowest and highest operating frequency band.
3. The Effective Radiated Power (ERP) was performed based on worst case mode from Conducted RF Output Power 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	7.5 Vdc	Nur Amanina
Peak-to-Average Power Ratio	25°C, 50% RH	7.5 Vdc	Nur Amanina
Occupied Bandwidth	25°C, 50% RH	7.5 Vdc	Nur Amanina
Frequency Stability	-30°C ~ 60°C	7.5 Vdc	Nur Amanina
Band Edge Conducted Spurious Emission	25°C, 50% RH	7.5 Vdc	Nur Amanina
Conducted Spurious Emission	25°C, 50% RH	7.5 Vdc	Nur Amanina
Radiated Spurious Emission	23.4°C, 68.6% RH	7.5 Vdc	Nazrin & Fuad
Effective Radiated Power (ERP)	25°C, 50% RH	7.5 Vdc	Nur Amanina

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. Test Limits

FCC: The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

ISED: The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment shall not exceed 11.5 Watts.

1.6.3. Conducted RF Output Power – LTE Band 5 (824-849MHz)

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
			20407	20525	20643	20407	20525	20643
			824.7MHz	836.5MHz	848.3 MHz	824.7 MHz	836.5MHz	848.3 MHz
Band 5 / 1.4 MHz	1	0	23.381	23.392	23.181	22.517	22.561	22.336
	1	3	23.414	23.449	23.206	22.547	22.612	22.363
	1	5	23.378	23.382	23.18	22.501	22.555	22.325
	3	0	23.44	23.447	23.275	22.542	22.54	22.284
	3	2	23.463	23.44	23.246	22.463	22.56	22.309
	3	3	23.446	23.426	23.242	22.471	22.551	22.288
	6	0	22.447	22.451	22.258	21.515	21.513	21.259

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
			20415	20525	20635	20415	20525	20635
			825.5MHz	836.5MHz	847.5MHz	825.5 MHz	836.5MHz	847.5 MHz
Band 5 / 3MHz	1	0	23.435	23.388	23.258	22.588	22.632	22.382
	1	7	23.454	23.449	23.288	22.589	22.677	22.435
	1	14	23.383	23.39	23.205	22.508	22.636	22.325
	8	0	22.48	22.415	22.31	21.451	21.395	21.352
	8	4	22.502	22.52	22.326	21.459	21.571	21.312
	8	7	22.46	22.463	22.311	21.448	21.42	21.364
	15	0	22.497	22.421	22.328	21.511	21.47	21.373

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
			20425	20525	20625	20425	20525	20625
			826.5MHz	836.5MHz	846.5MHz	826.5 MHz	836.5MHz	846.5 MHz
Band 5 / 5MHz	1	0	23.424	23.475	23.356	22.663	22.658	22.504
	1	13	23.442	23.523	23.357	22.682	22.698	22.533
	1	25	23.357	23.418	23.296	22.601	22.618	22.454
	12	0	22.519	22.473	22.295	21.501	21.5	21.325
	12	6	22.527	22.472	22.316	21.533	21.492	21.346
	12	13	22.467	22.504	22.343	21.493	21.534	21.318
	25	0	22.48	22.446	22.316	21.527	21.481	21.337

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
			20450	20525	20600	20450	20525	20600
			829 MHz	836.5MHz	844 MHz	829 MHz	836.5MHz	844 MHz
Band 5 / 10MHz	1	0	23.523	23.512	23.414	22.655	22.739	22.564
	1	25	23.468	23.466	23.373	22.602	22.706	22.546
	1	49	23.33	23.366	23.262	22.464	22.596	22.432
	25	0	22.525	22.508	22.397	21.528	21.537	21.4
	25	13	22.551	22.465	22.46	21.575	21.504	21.473
	25	25	22.483	22.494	22.384	21.498	21.512	21.442
	50	0	22.546	22.474	22.49	21.564	21.508	21.526

1.6.4. Effective Radiated Power – LTE Band 5 (824-849MHz)

Main Antenna

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
			20407	20525	20643	20407	20525	20643
			824.7MHz	836.5MHz	848.3 MHz	824.7 MHz	836.5MHz	848.3 MHz
Band 5 / 1.4 MHz	1	0	19.531	19.542	19.331	18.667	18.711	18.486
	1	3	19.564	19.599	19.356	18.697	18.762	18.513
	1	5	19.528	19.532	19.33	18.651	18.705	18.475
	3	0	19.59	19.597	19.425	18.692	18.69	18.434
	3	2	19.613	19.59	19.396	18.613	18.71	18.459
	3	3	19.596	19.576	19.392	18.621	18.701	18.438
	6	0	18.597	18.601	18.408	17.665	17.663	17.409

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
			20415	20525	20635	20415	20525	20635
			825.5MHz	836.5MHz	847.5MHz	825.5 MHz	836.5MHz	847.5 MHz
Band 5 / 3MHz	1	0	19.585	19.538	19.408	18.738	18.782	18.532
	1	7	19.604	19.599	19.438	18.739	18.827	18.585
	1	14	19.533	19.54	19.355	18.658	18.786	18.475
	8	0	18.63	18.565	18.46	17.601	17.545	17.502
	8	4	18.652	18.67	18.476	17.609	17.721	17.462
	8	7	18.61	18.613	18.461	17.598	17.57	17.514
	15	0	18.647	18.571	18.478	17.661	17.62	17.523

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
			20425	20525	20625	20425	20525	20625
			826.5MHz	836.5MHz	846.5MHz	826.5 MHz	836.5MHz	846.5 MHz
Band 5 / 5MHz	1	0	19.574	19.625	19.506	18.813	18.808	18.654
	1	13	19.592	19.673	19.507	18.832	18.848	18.683
	1	25	19.507	19.568	19.446	18.751	18.768	18.604
	12	0	18.669	18.623	18.445	17.651	17.65	17.475
	12	6	18.677	18.622	18.466	17.683	17.642	17.496
	12	13	18.617	18.654	18.493	17.643	17.684	17.468
	25	0	18.63	18.596	18.466	17.677	17.631	17.487

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
			20450	20525	20600	20450	20525	20600
			829 MHz	836.5MHz	844 MHz	829 MHz	836.5MHz	844 MHz
Band 5 / 10MHz	1	0	19.673	19.662	19.564	18.805	18.889	18.714
	1	25	19.618	19.616	19.523	18.752	18.856	18.696
	1	49	19.48	19.516	19.412	18.614	18.746	18.582
	25	0	18.675	18.658	18.547	17.678	17.687	17.55
	25	13	18.701	18.615	18.61	17.725	17.654	17.623
	25	25	18.633	18.644	18.534	17.648	17.662	17.592
	50	0	18.696	18.624	18.64	17.714	17.658	17.676

Diversity Antenna

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
			20407	20525	20643	20407	20525	20643
			824.7MHz	836.5MHz	848.3 MHz	824.7 MHz	836.5MHz	848.3 MHz
Band 5 / 1.4 MHz	1	0	21.231	21.242	21.031	20.367	20.411	20.186
	1	3	21.264	21.299	21.056	20.397	20.462	20.213
	1	5	21.228	21.232	21.03	20.351	20.405	20.175
	3	0	21.29	21.297	21.125	20.392	20.39	20.134
	3	2	21.313	21.29	21.096	20.313	20.41	20.159
	3	3	21.296	21.276	21.092	20.321	20.401	20.138
	6	0	20.297	20.301	20.108	19.365	19.363	19.109

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
			20415	20525	20635	20415	20525	20635
			825.5MHz	836.5MHz	847.5MHz	825.5 MHz	836.5MHz	847.5 MHz
Band 5 / 3MHz	1	0	21.285	21.238	21.108	20.438	20.482	20.232
	1	7	21.304	21.299	21.138	20.439	20.527	20.285
	1	14	21.233	21.24	21.055	20.358	20.486	20.175
	8	0	20.33	20.265	20.16	19.301	19.245	19.202
	8	4	20.352	20.37	20.176	19.309	19.421	19.162
	8	7	20.31	20.313	20.161	19.298	19.27	19.214
	15	0	20.347	20.271	20.178	19.361	19.32	19.223

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
			20425	20525	20625	20425	20525	20625
			826.5MHz	836.5MHz	846.5MHz	826.5 MHz	836.5MHz	846.5 MHz
Band 5 / 5MHz	1	0	21.274	21.325	21.206	20.513	20.508	20.354
	1	13	21.292	21.373	21.207	20.532	20.548	20.383
	1	25	21.207	21.268	21.146	20.451	20.468	20.304
	12	0	20.369	20.323	20.145	19.351	19.35	19.175
	12	6	20.377	20.322	20.166	19.383	19.342	19.196
	12	13	20.317	20.354	20.193	19.343	19.384	19.168
	25	0	20.33	20.296	20.166	19.377	19.331	19.187

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
			20450	20525	20600	20450	20525	20600
			829 MHz	836.5MHz	844 MHz	829 MHz	836.5MHz	844 MHz
Band 5 / 10MHz	1	0	21.373	21.362	21.264	20.505	20.589	20.414
	1	25	21.318	21.316	21.223	20.452	20.556	20.396
	1	49	21.18	21.216	21.112	20.314	20.446	20.282
	25	0	20.375	20.358	20.247	19.378	19.387	19.25
	25	13	20.401	20.315	20.31	19.425	19.354	19.323
	25	25	20.333	20.344	20.234	19.348	19.362	19.292
	50	0	20.396	20.324	20.34	19.414	19.358	19.376

The maximum ERP/EIRP from the measured RF output power is given in Equation as follows:

$$\text{EIRP} = \text{PMeas} + \text{GT}$$

$$\text{ERP} = \text{EIRP} - 2.15$$

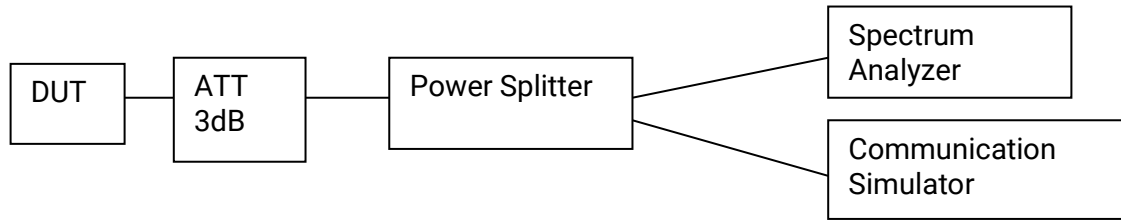
Where, ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (Expressed in the same units as PMeas, e.g., dBm)

PMeas measured transmitter output power, in dBm

GT gain of the transmitting antenna, in dBi (EIRP)

1.7. Peak-to-Average Power Ratio

1.7.1. Test Setup



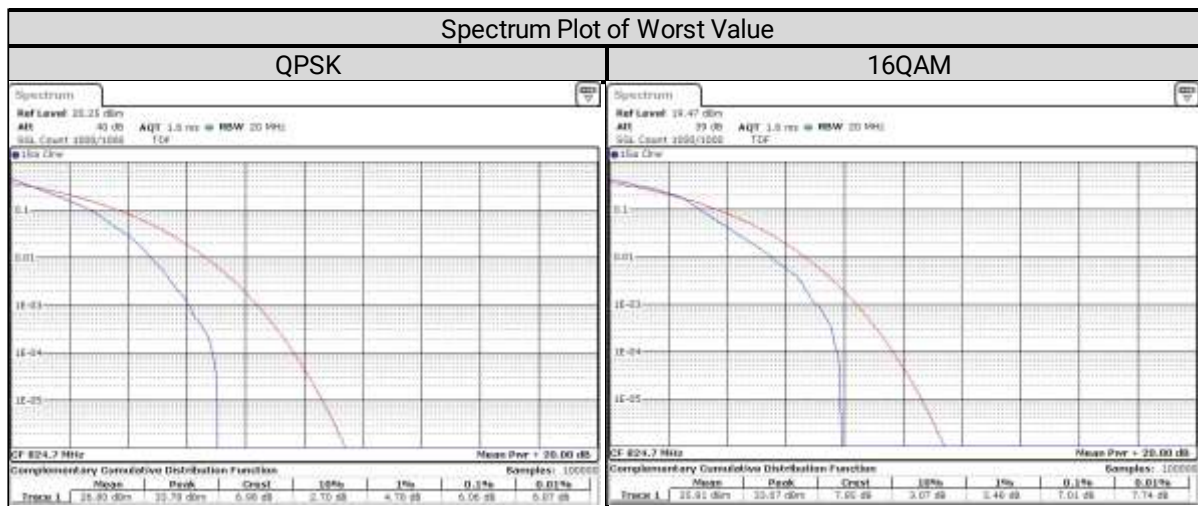
1. The DUT transmitter output port was connected to communication simulator with above setup.
2. Path loss for the measurement included.
3. Set DUT to transmit maximum power through communication simulator
4. Set the CCDF (Complementary Cumulative Distribution Function) option in the spectrum analyzer.
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

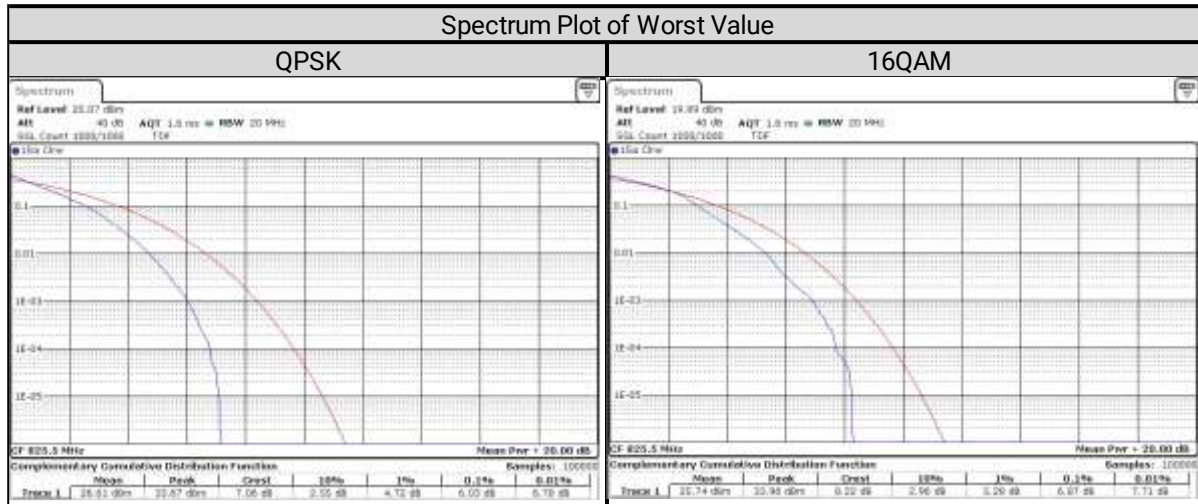
The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

1.7.3. Peak To Average Power Ratio – LTE Band 5 (824-849MHz)

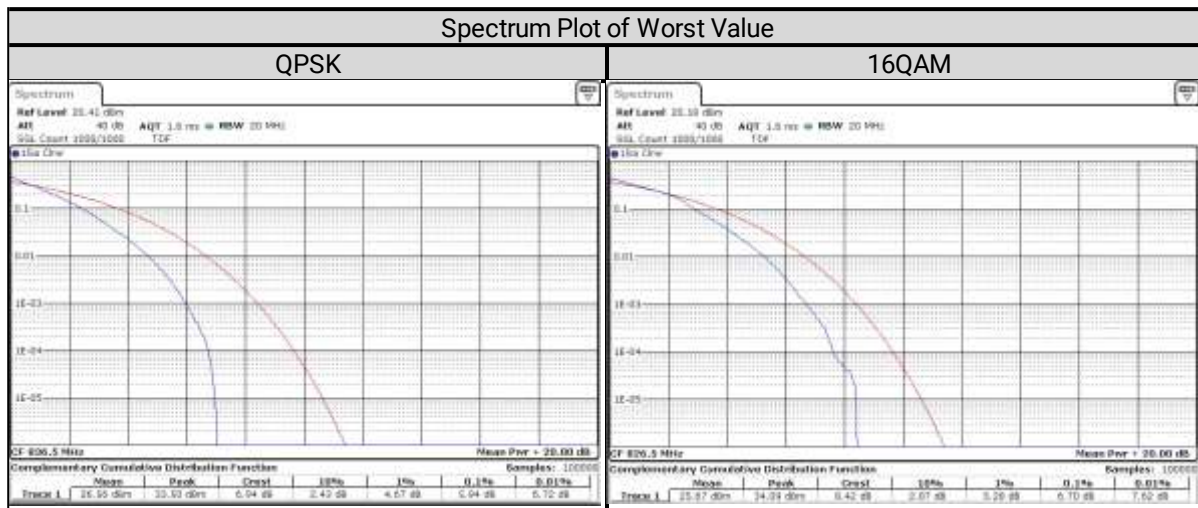
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 5/1.4MHz/6/0	Low CH 20407	824.7 MHz	6.058	7.014
	Mid CH 20525	836.5 MHz	6.058	6.725
	High CH 20643	848.3 MHz	5.768	6.406



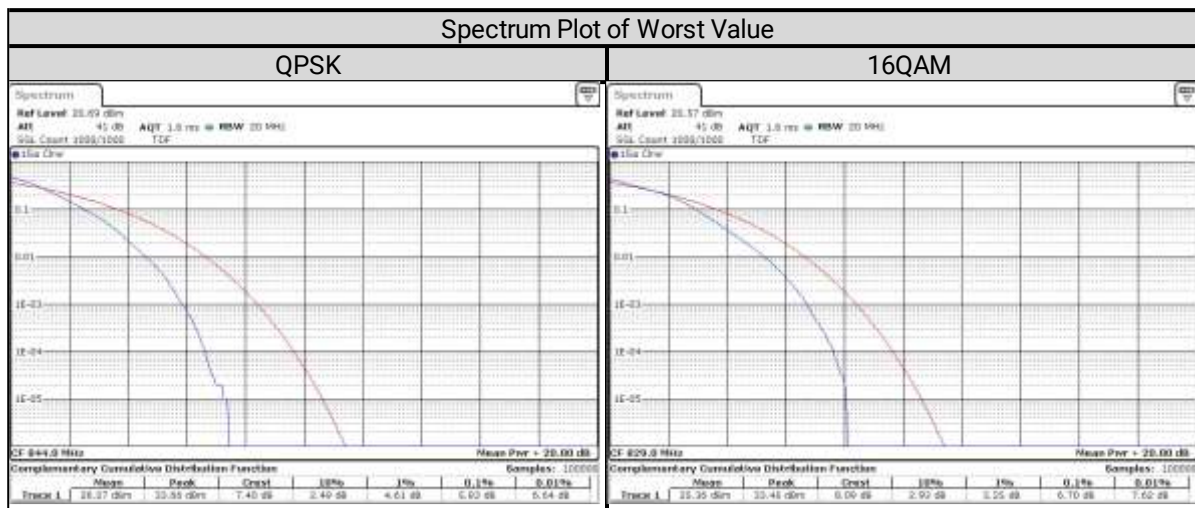
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 5/3MHz/15/0	Low CH 20415	825.5 MHz	6.029	6.87
	Mid CH 20525	836.5 MHz	6	6.551
	High CH 20635	847.5 MHz	5.768	6.841



LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 5/5MHz/25/0	Low CH 20425	826.5 MHz	5.826	6.696
	Mid CH 20525	836.5 MHz	5.942	6.58
	High CH 20625	846.5 MHz	5.739	6.551

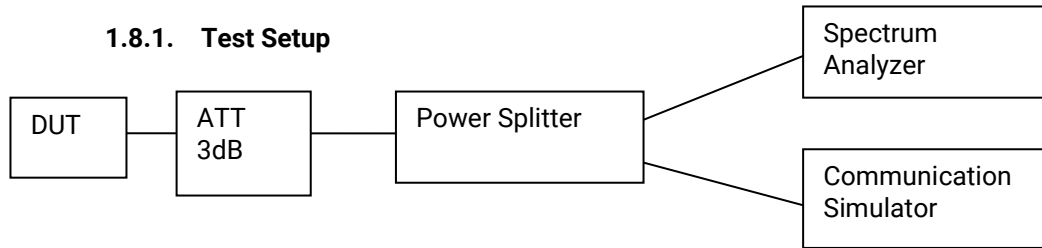


LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 5/10MHz/50/0	Low CH 20450	829MHz	5.768	6.696
	Mid CH 20525	836.5 MHz	5.768	6.522
	High CH 20600	844MHz	5.826	6.551



1.8. Occupied Bandwidth

1.8.1. Test Setup



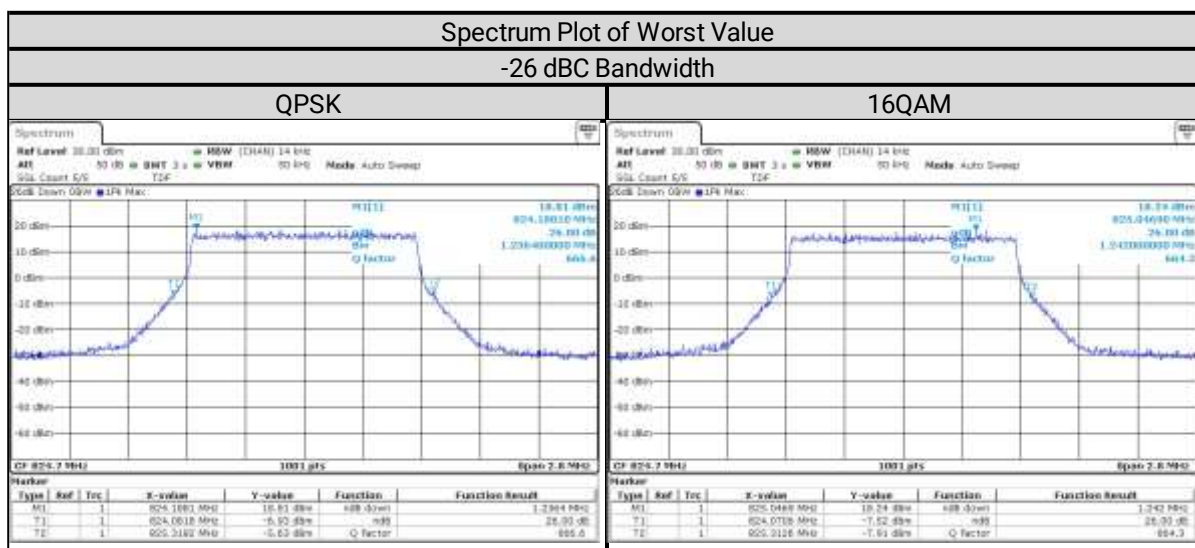
- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) For LTE measurement, set DUT to transmit maximum power & full RB size through communication simulator.
- 4) For LTE measurement, set DUT to transmit maximum 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

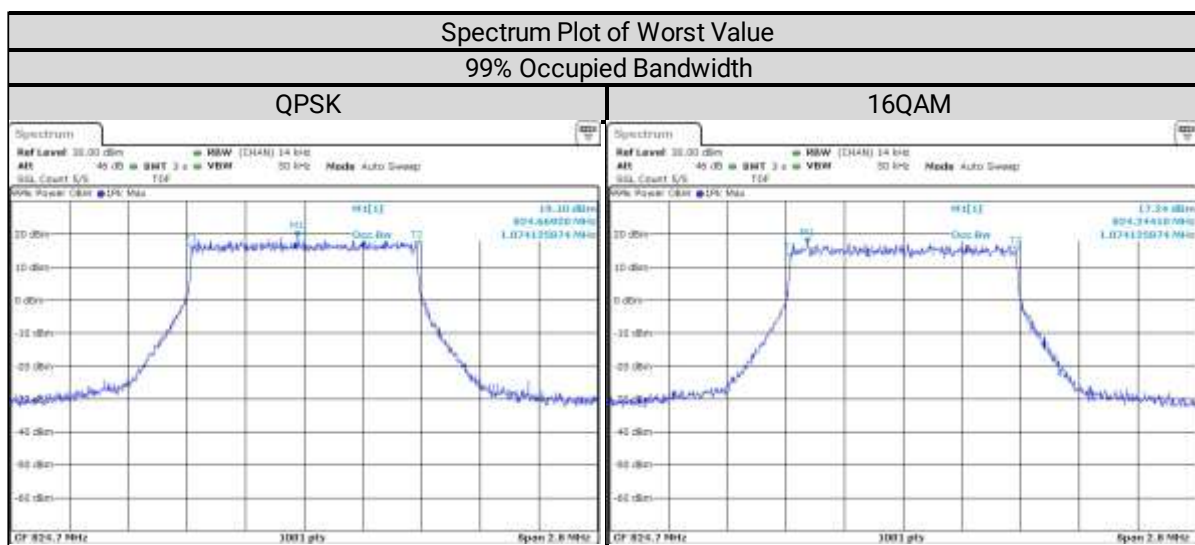
The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

1.8.3. Occupied Bandwidth - LTE Band 5 (824-849MHz)

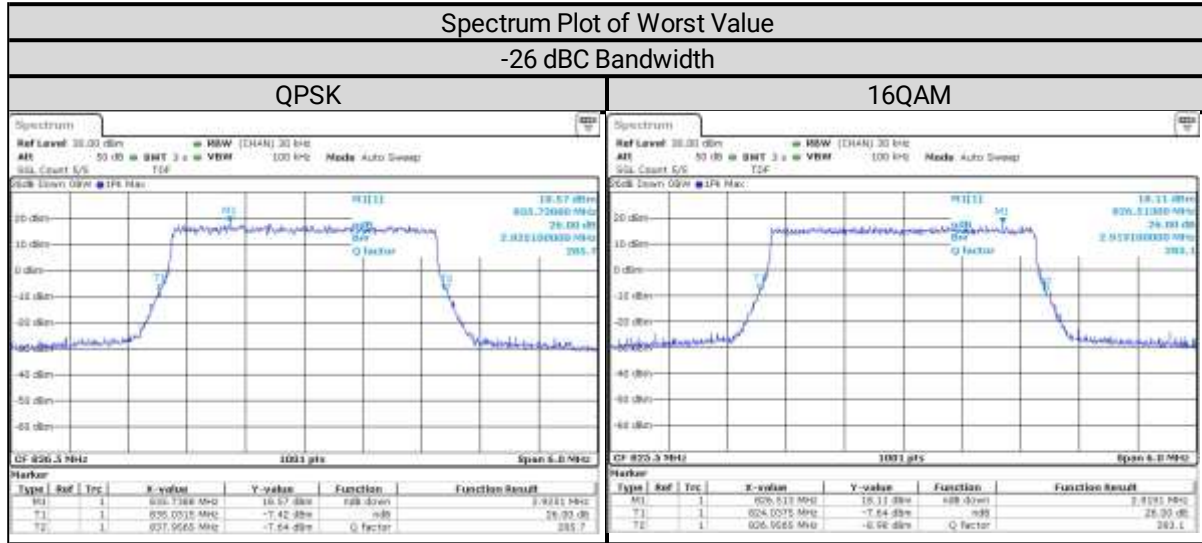
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 5/1.4MHz/6/0	Low CH 20407	824.7 MHz	1.236	1.242
	Mid CH 20525	836.5 MHz	1.217	1.239
	High CH 20643	848.3 MHz	1.222	1.225



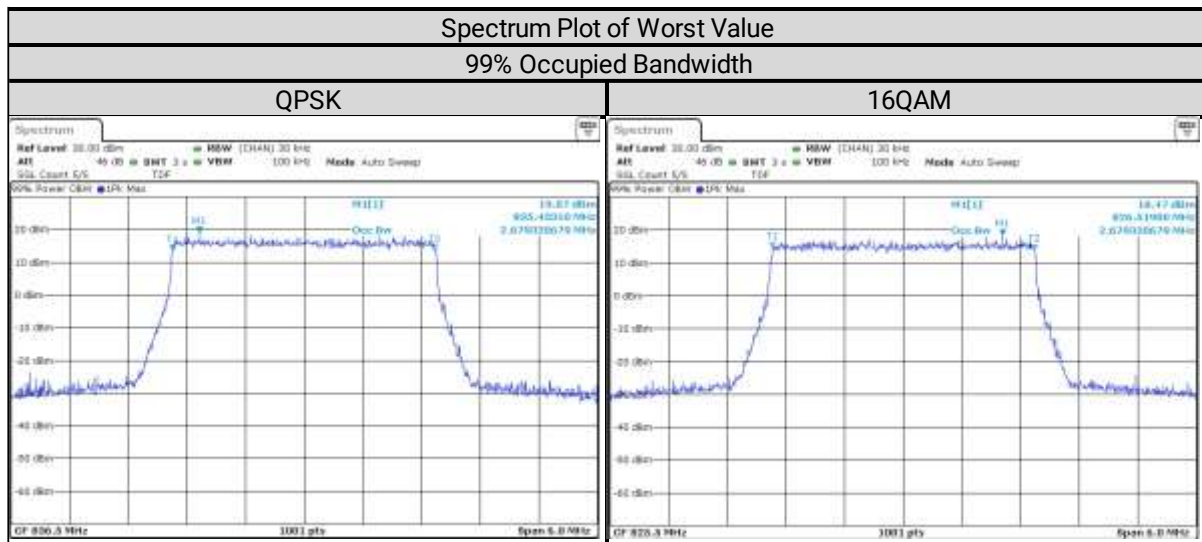
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 5/1.4MHz/6/0	Low CH 20407	824.7 MHz	1.074	1.074
	Mid CH 20525	836.5 MHz	1.074	1.074
	High CH 20643	848.3 MHz	1.071	1.071



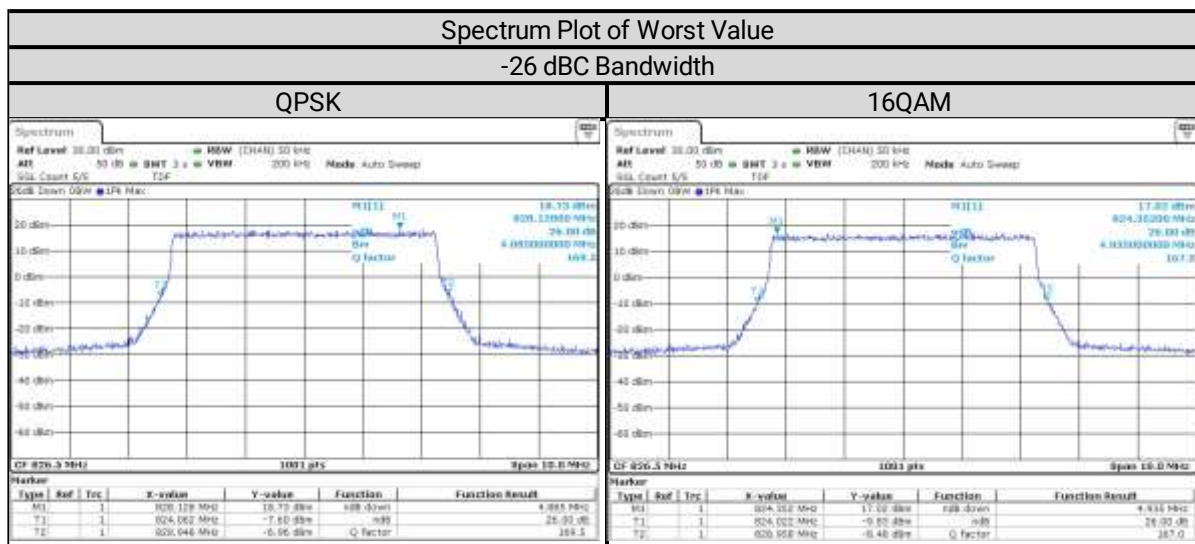
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 5/3MHz/15/0	Low CH 20415	825.5 MHz	2.919	2.919
	Mid CH 20525	836.5 MHz	2.925	2.901
	High CH 20635	847.5 MHz	2.901	2.895



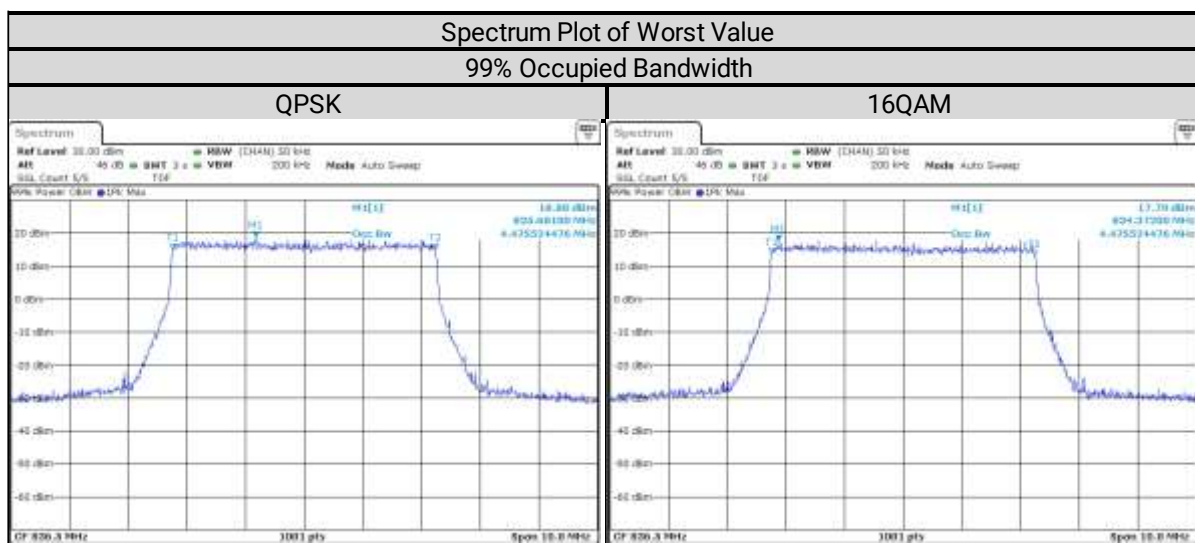
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 5/3MHz/15/0	Low CH 20415	825.5 MHz	2.673	2.679
	Mid CH 20525	836.5 MHz	2.679	2.673
	High CH 20635	847.5 MHz	2.673	2.673



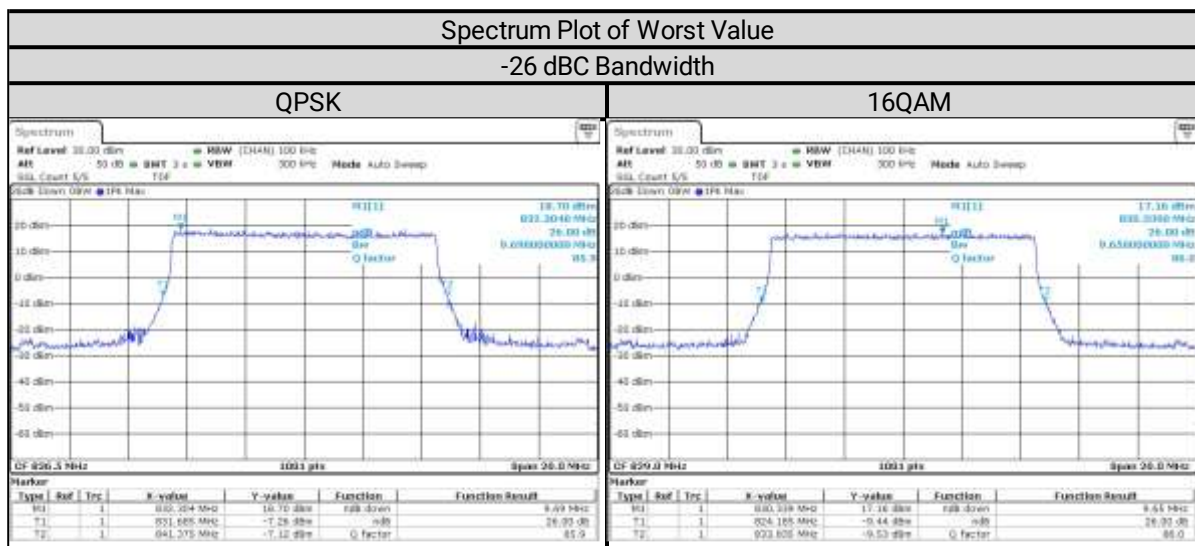
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 5/5MHz/25/0	Low CH 20425	826.5 MHz	4.885	4.935
	Mid CH 20525	836.5 MHz	4.885	4.865
	High CH 20625	846.5 MHz	4.825	4.875



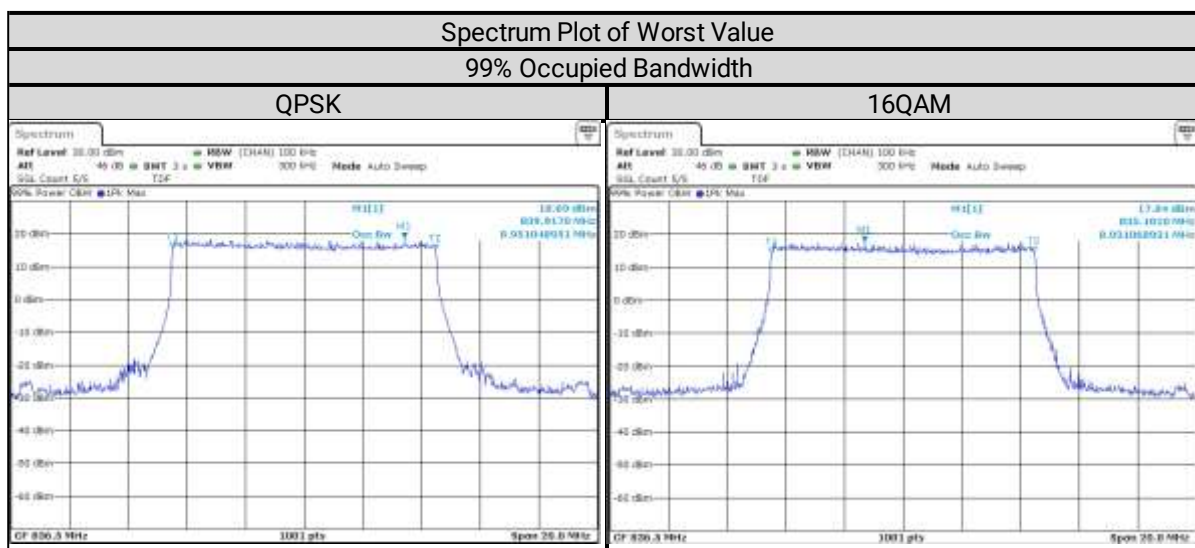
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 5/5MHz/25/0	Low CH 20425	826.5 MHz	4.466	4.466
	Mid CH 20525	836.5 MHz	4.476	4.476
	High CH 20625	846.5 MHz	4.466	4.466



LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 5/10MHz/50/0	Low CH 20450	829MHz	9.55	9.65
	Mid CH 20525	836.5 MHz	9.69	9.65
	High CH 20600	844MHz	9.55	9.57

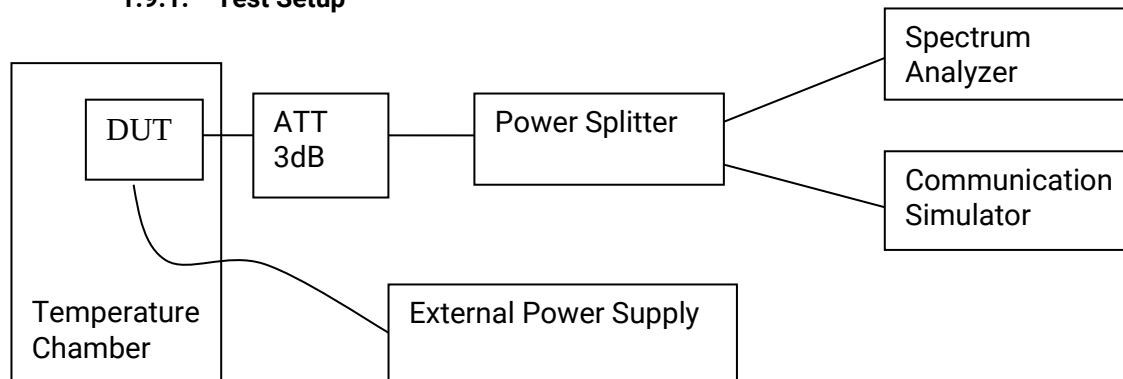


LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 5/10MHz/50/0	Low CH 20450	829MHz	8.911	8.911
	Mid CH 20525	836.5 MHz	8.951	8.931
	High CH 20600	844MHz	8.911	8.911



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 ~ 50 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

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations and ± 1.5 ppm for base stations.

1.9.3. Frequency Stability - LTE Band 5 (824-849MHz)

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 1.4 MHz			
		Low Channel		High Channel	
		824.7MHz		848.3MHz	
LTE Band 5		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	60	824.699997	-0.003781	848.299995	-0.00602
	50	824.699996	-0.0051	848.300004	0.004502
	40	824.699997	-0.004128	848.300004	0.004435
	30	824.700004	0.004857	848.299996	-0.005025
	20	824.699996	-0.005186	848.299994	-0.00661
	10	824.700004	0.005429	848.300003	0.003491
	0	824.700004	0.005013	848.299996	-0.005278
	-10	824.699995	-0.00588	848.300005	0.006408
	-20	824.700005	0.006088	848.299995	-0.006189
	-30	824.700012	0.014571	848.299994	-0.007201

Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 1.4 MHz			
		Low Channel		High Channel	
		824.7MHz		848.3MHz	
LTE Band 5		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	9	824.700612	0.003816	848.300064	0.007083
	7.5	824.700061	-0.006019	848.300069	-0.008904
	6	824.7000325	-0.004493	848.300451	0.005093

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 3 MHz			
		Low Channel		High Channel	
		825.5MHz		847.5MHz	
LTE Band 5		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	60	825.500004	0.004835	847.500005	0.005553
	50	825.500003	0.003639	847.500004	0.00476
	40	825.500003	0.003812	847.500003	0.004119
	30	825.499997	-0.00409	847.500005	0.005486
	20	825.500004	0.005147	847.500004	0.004962
	10	825.500004	0.004956	847.500005	0.005705
	0	825.500008	0.004506	847.5000091	0.006667
	-10	825.500005	0.006221	847.500005	0.005384
	-20	825.500005	0.005857	847.500004	0.004186
	-30	825.500006	0.006689	847.500004	0.004996

Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 3 MHz			
		Low Channel		High Channel	
		825.5MHz		847.5MHz	
LTE Band 5		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	9	825.500065	0.004852	847.5004115	0.008758
	7.5	825.5000418	0.004367	847.5000999	0.004676
	6	825.5006155	0.019582	847.5000415	0.008946

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 5 MHz			
		Low Channel		High Channel	
		826.5MHz		846.5MHz	
LTE Band 5		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	60	826.499996	-0.004587	846.500003	0.003667
	50	826.500064	-0.004137	846.500061	0.003853
	40	826.500009	0.004448	846.500064	0.005104
	30	826.500021	0.004621	846.500055	0.004529
	20	826.500004	0.00469	846.500004	0.004749
	10	826.500444	0.004085	846.500004	0.004698
	0	826.500046	0.004569	846.500045	0.006912
	-10	826.500084	0.0059337	846.500004	0.004985
	-20	826.500005	0.005937	846.499996	-0.004867
	-30	826.500004	0.005227	846.500005	0.005425

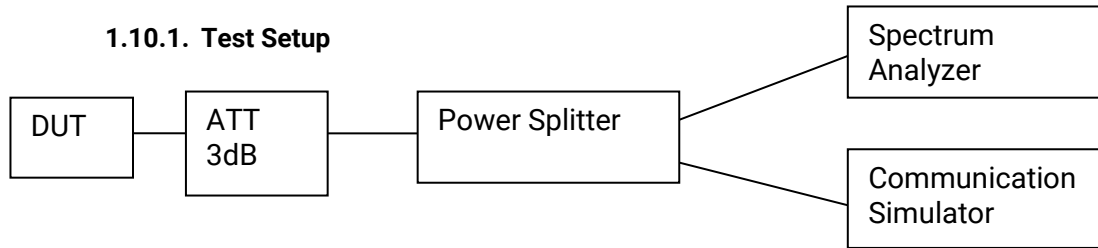
Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 5 MHz			
		Low Channel		High Channel	
		826.5MHz		846.5MHz	
LTE Band 5		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	9	826.500066	0.00405	846.5005455	0.005408
	7.5	826.5000321	-0.004552	846.5000066	0.004411
	6	826.5004155	-0.020856	846.5000411	0.007909

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 10 MHz			
		Low Channel		High Channel	
		829MHz		844MHz	
LTE Band 5		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	60	828.999996	-0.004918	843.999996	-0.004576
	50	829.000644	-0.004918	844.000315	0.004373
	40	829.000036	0.003244	844.000815	-0.004424
	30	829.000041	-0.003831	844.000216	-0.004017
	20	829.000065	-0.005625	843.999996	-0.004831
	10	829.000361	-0.004556	844.011111	-0.004847
	0	829.000312	-0.004245	844.000215	-0.004068
	-10	828.999997	-0.003555	844.000321	0.004932
	-20	829.000004	0.004866	844.000111	0.004424
	-30	829.000004	0.004676	844.000004	0.005017

Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 10 MHz			
		Low Channel		High Channel	
		829MHz		844MHz	
LTE Band 5		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	9	829.000066	0.004366	844.006155	-0.003949
	7.5	829.000064	-0.004849	844.000009	-0.00535
	6	829.000548	0.008887	844.000011	-0.004881

1.10. Band Edge Conducted Spurious Emission

1.10.1. Test Setup

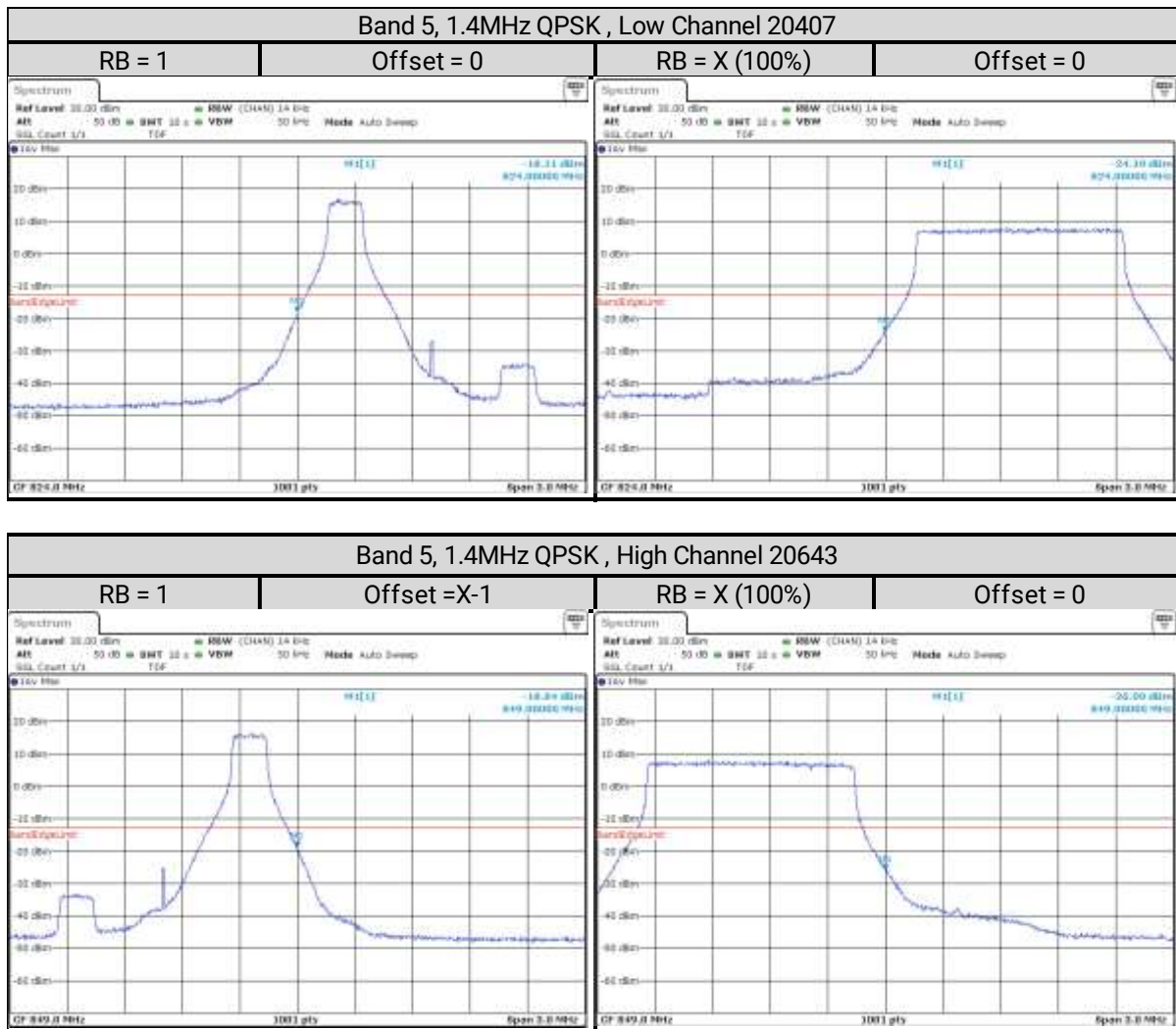


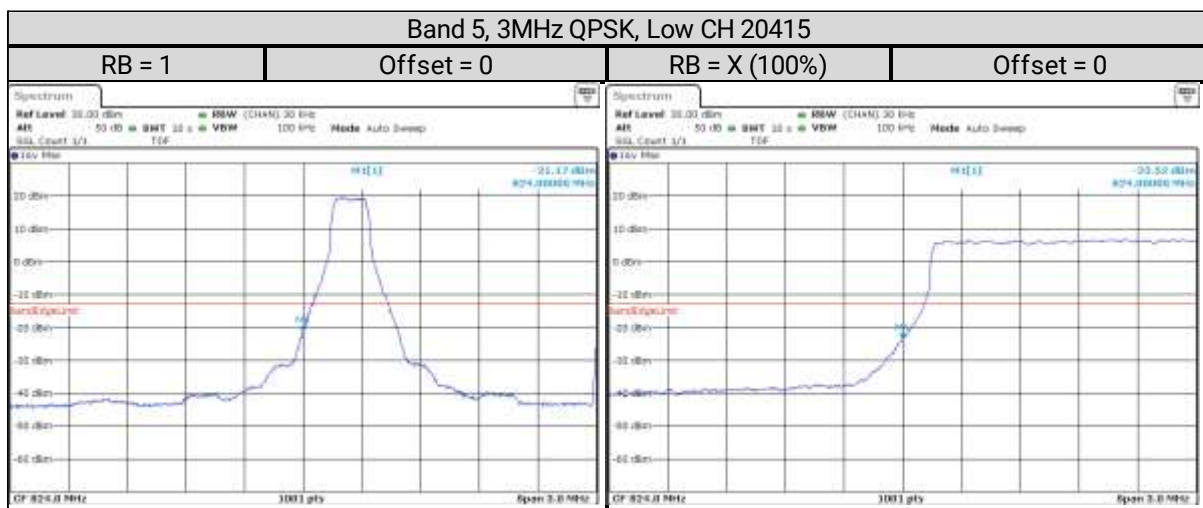
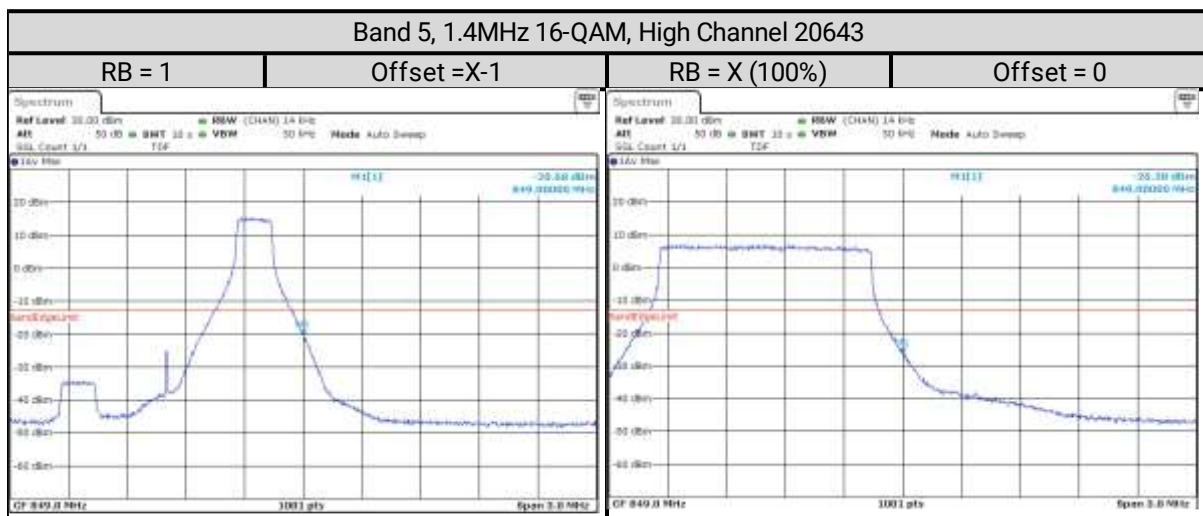
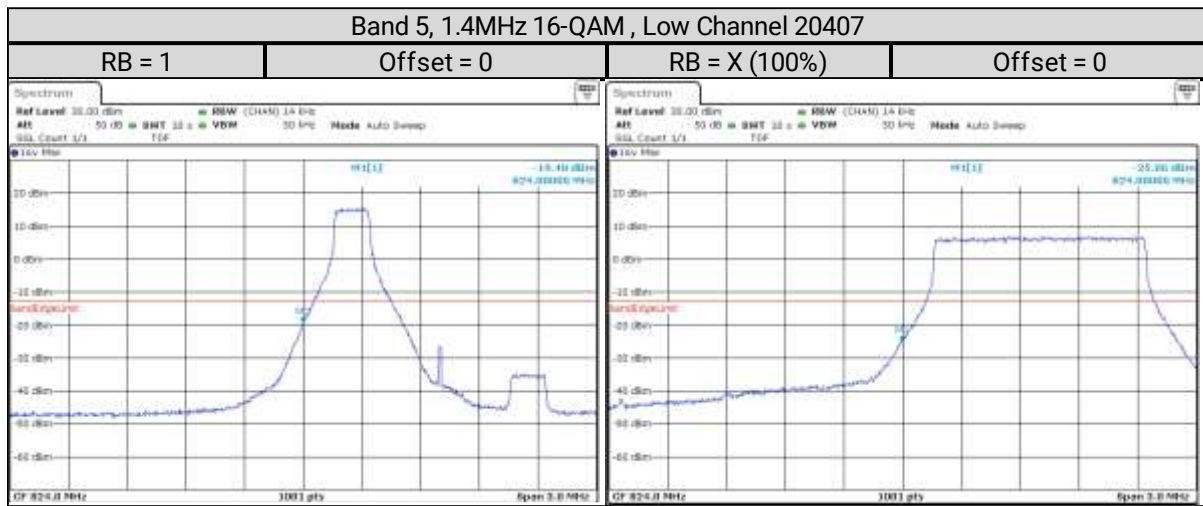
- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) Set DUT to transmit maximum power through communication simulator.
- 4) The band edges of lowest and highest channels with the highest RF powers were measured.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

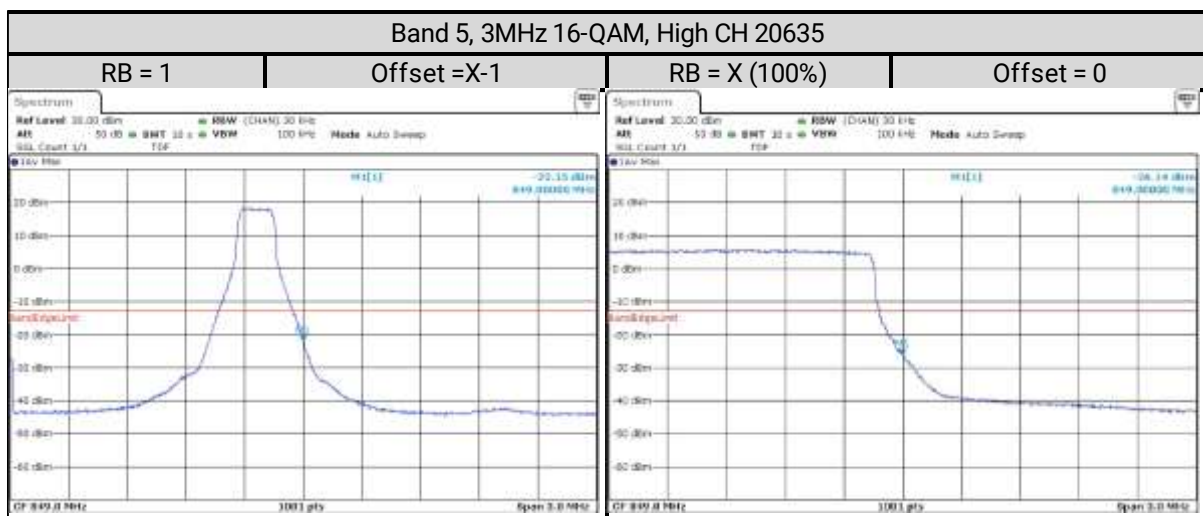
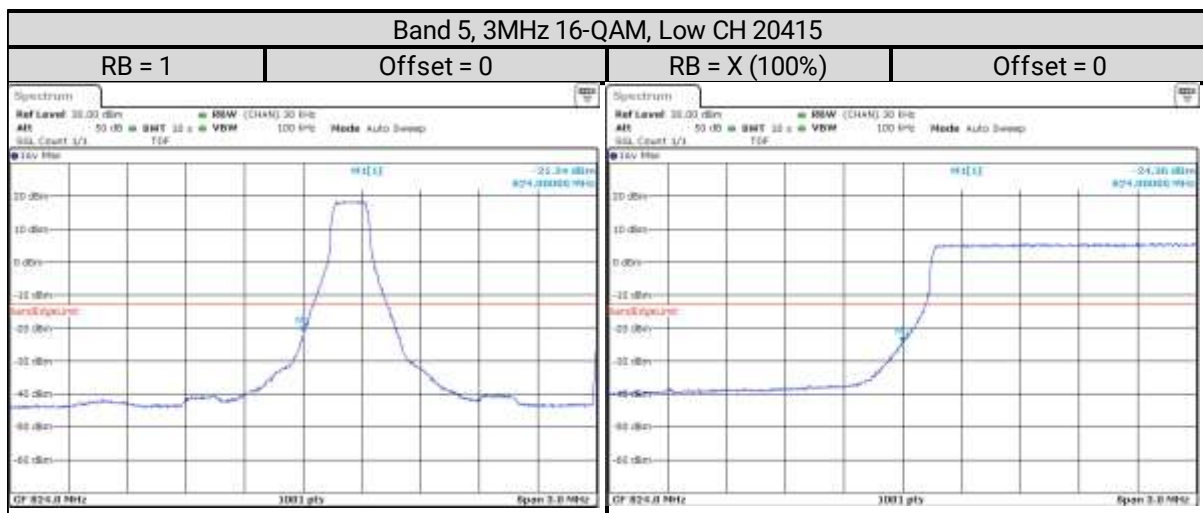
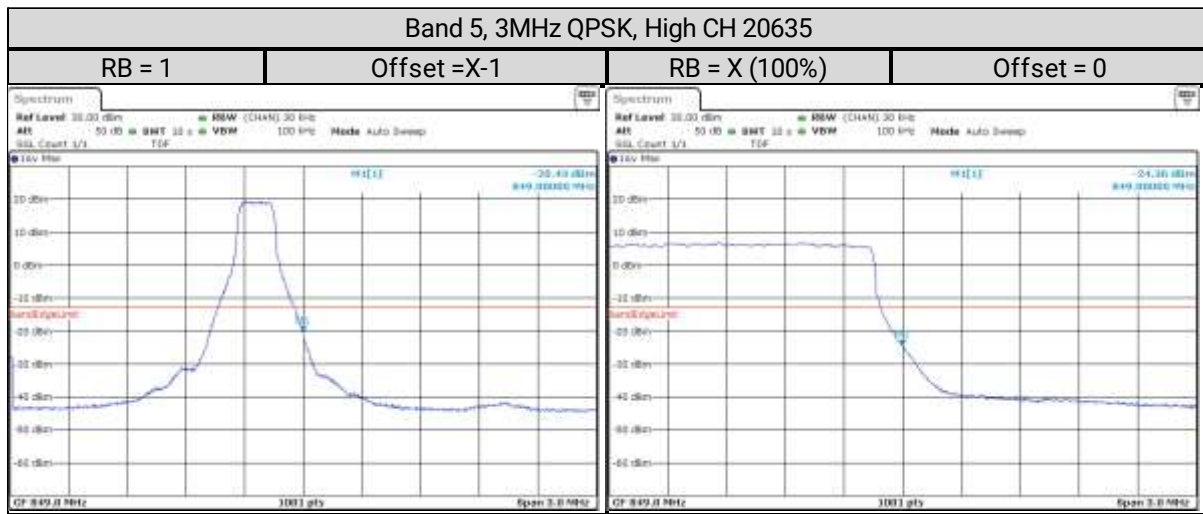
1.10.2. Test Limit

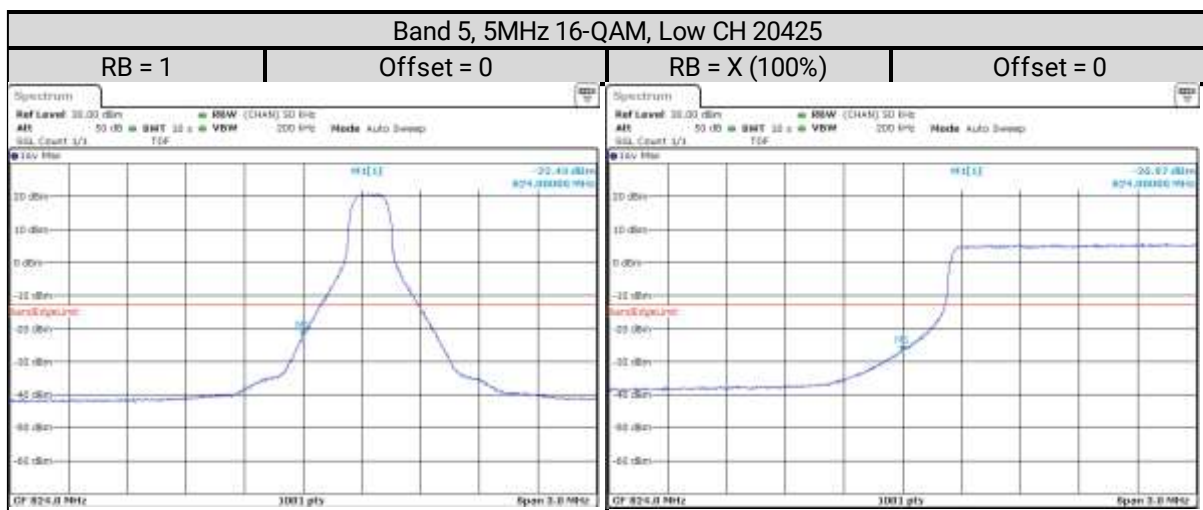
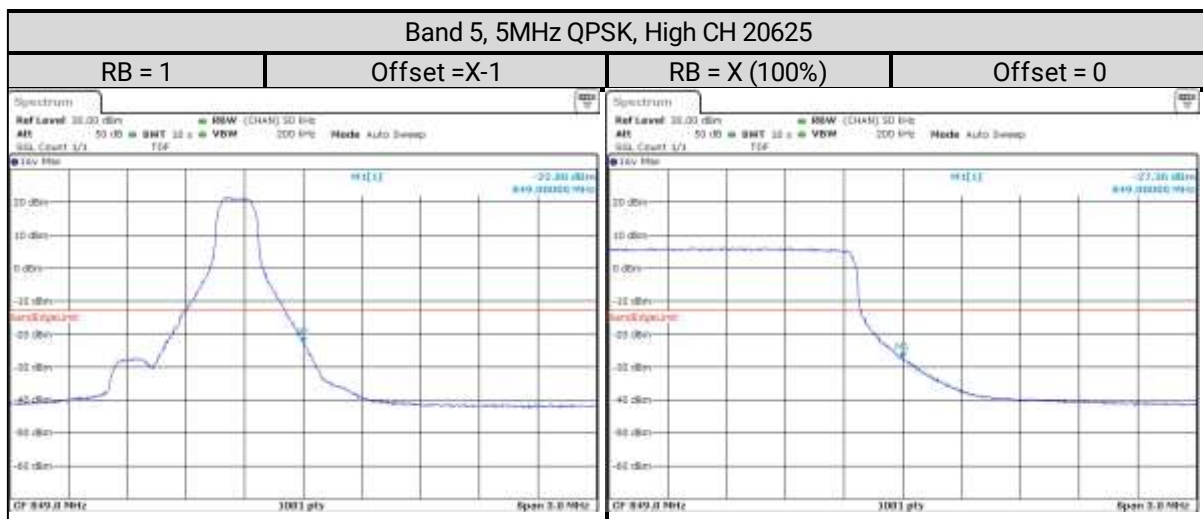
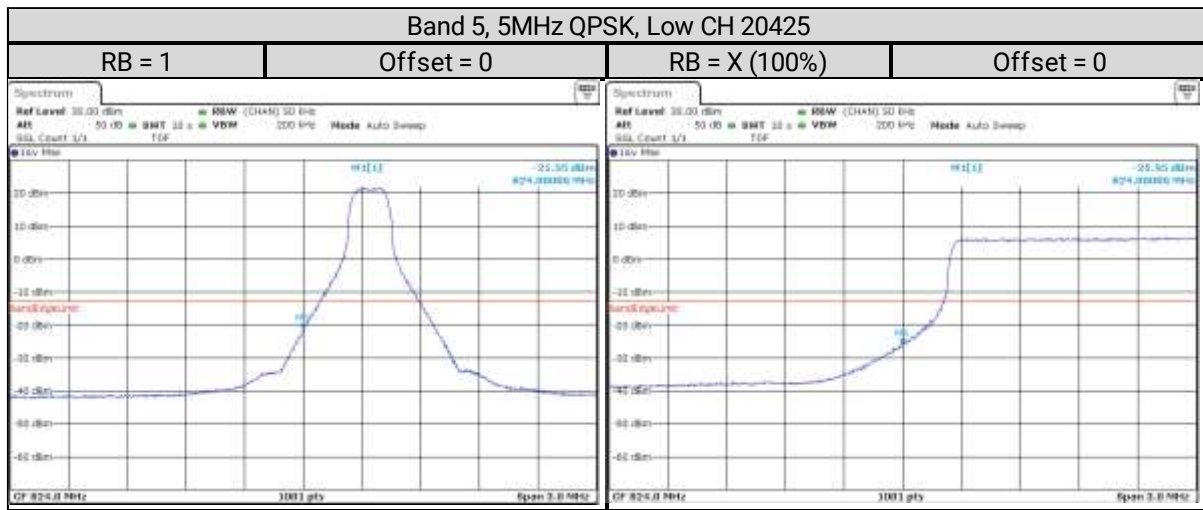
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed

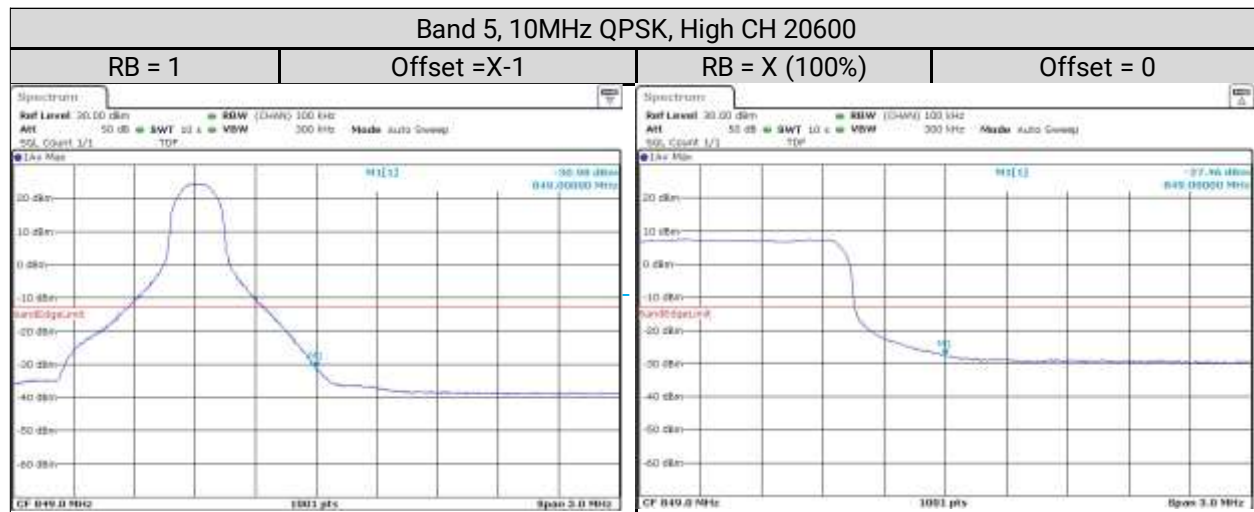
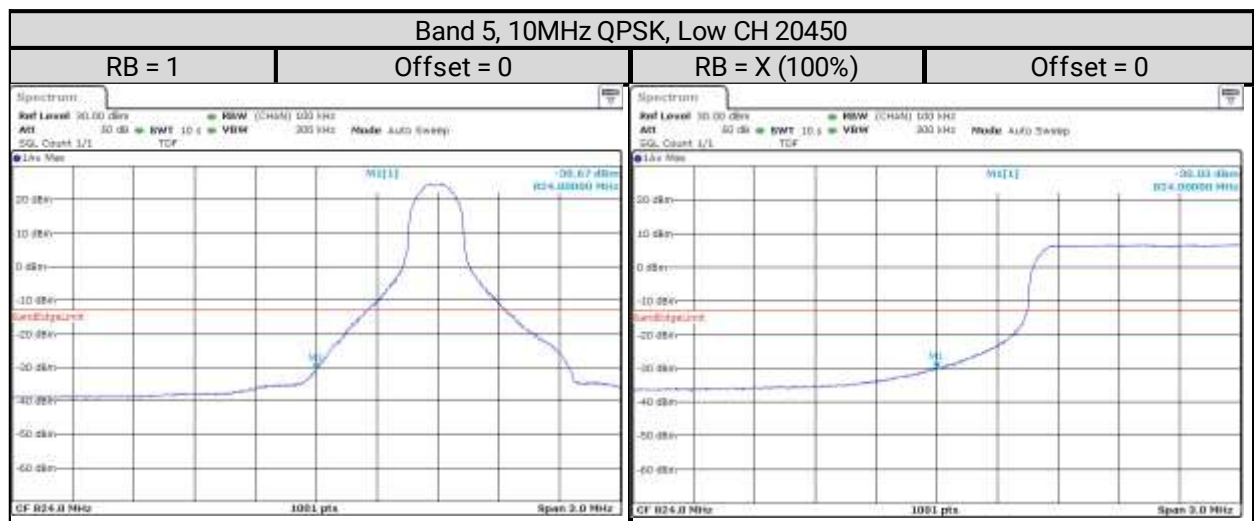
1.10.3. Band Edge Conducted Spurious Emission - LTE Band 5 (824-849MHz)

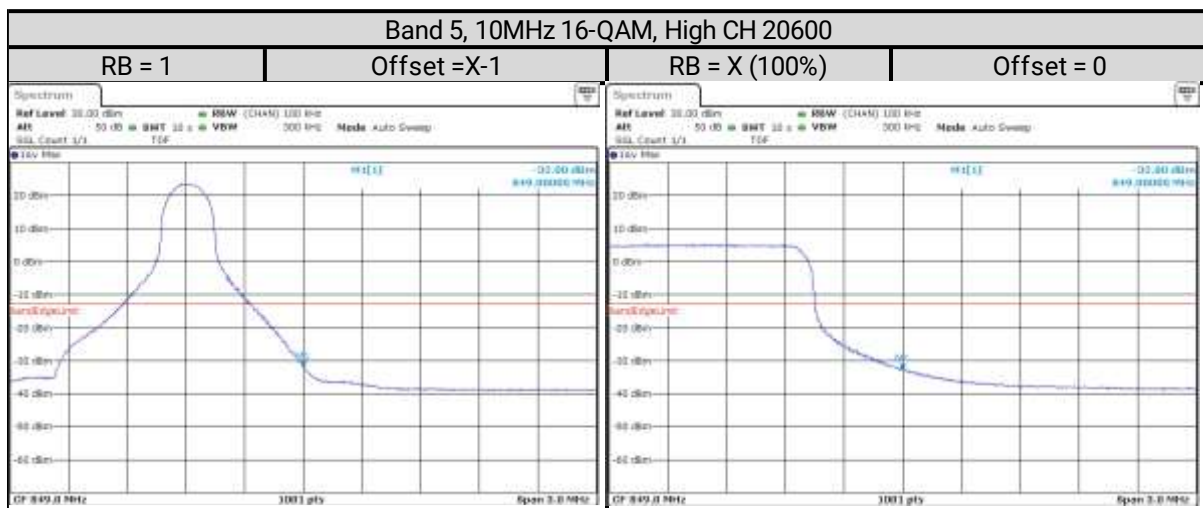
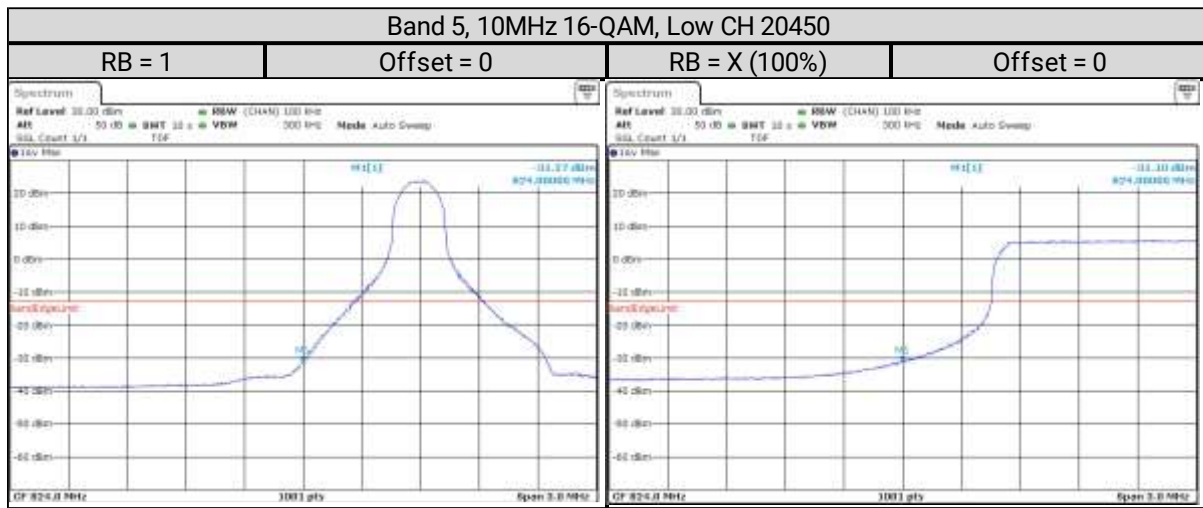






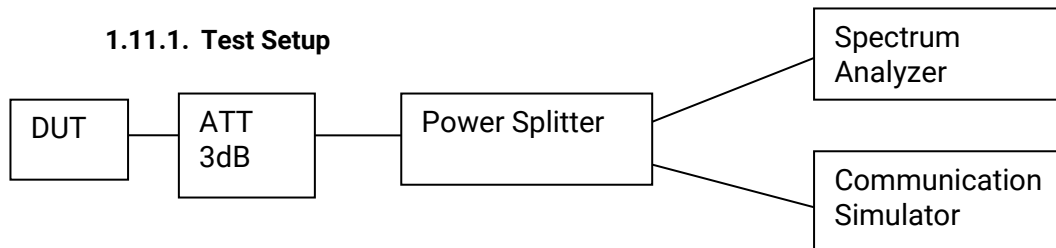






1.11. Conducted Spurious Emission

1.11.1. Test Setup



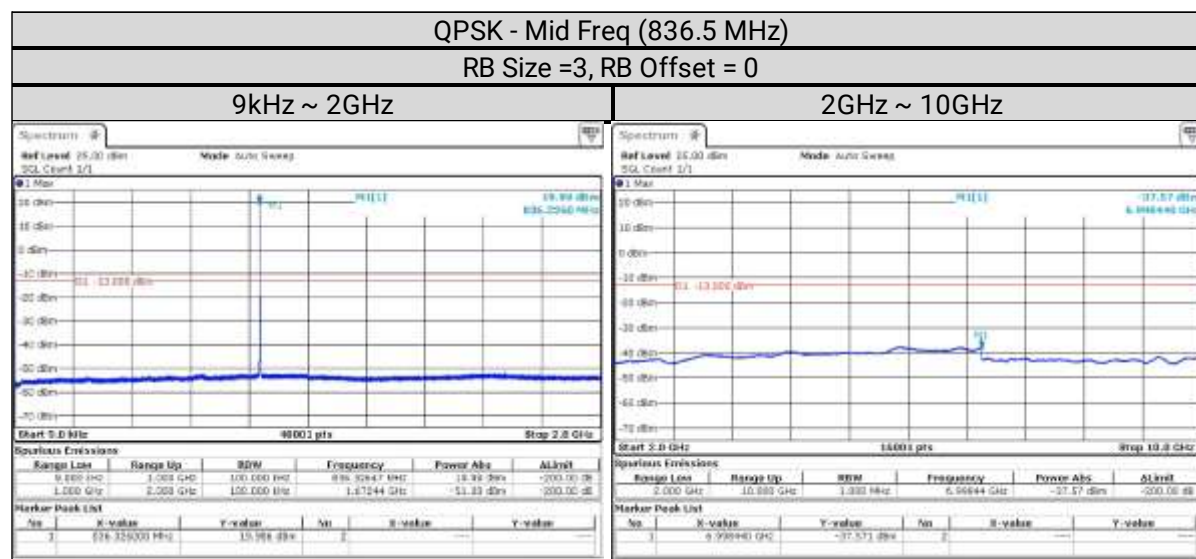
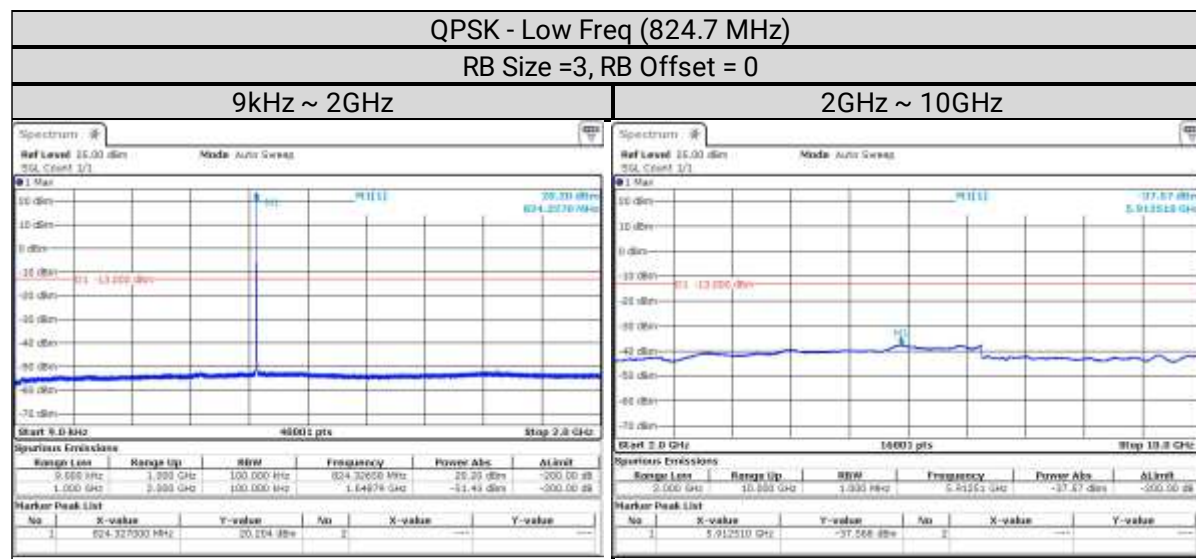
- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) Set DUT to transmit maximum power through communication simulator.
- 4) Spectrum Analyzer setting, RBW = 100 kHz or greater, VBW = 3*RBW.
- 5) The spurious emission of lowest, middle and highest channels with the highest RF powers were measured.
- 6) Record the maximum trace plot into the test report.

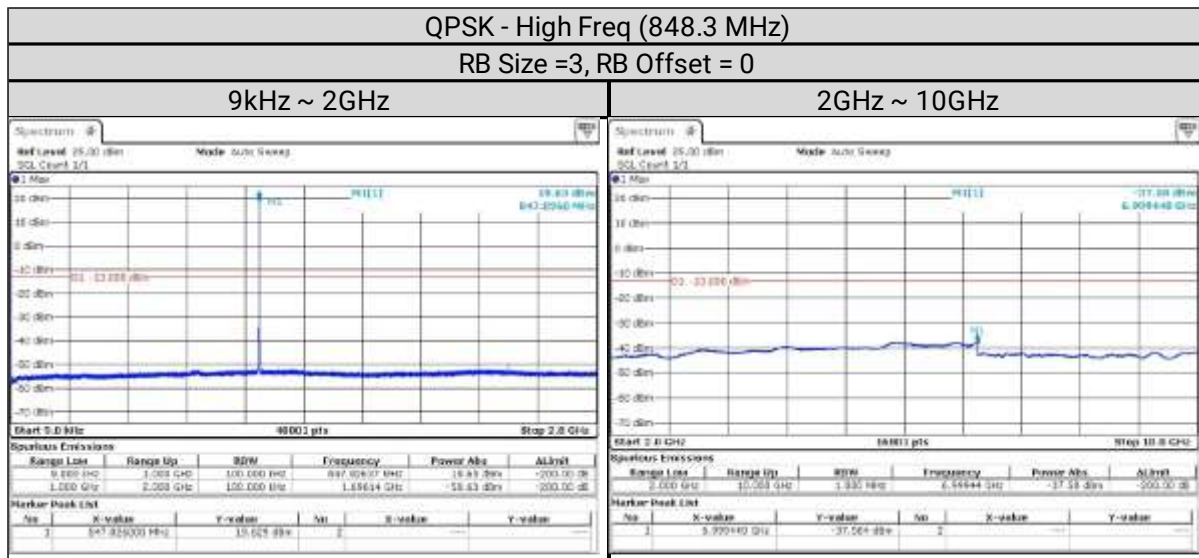
1.11.2. Test Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

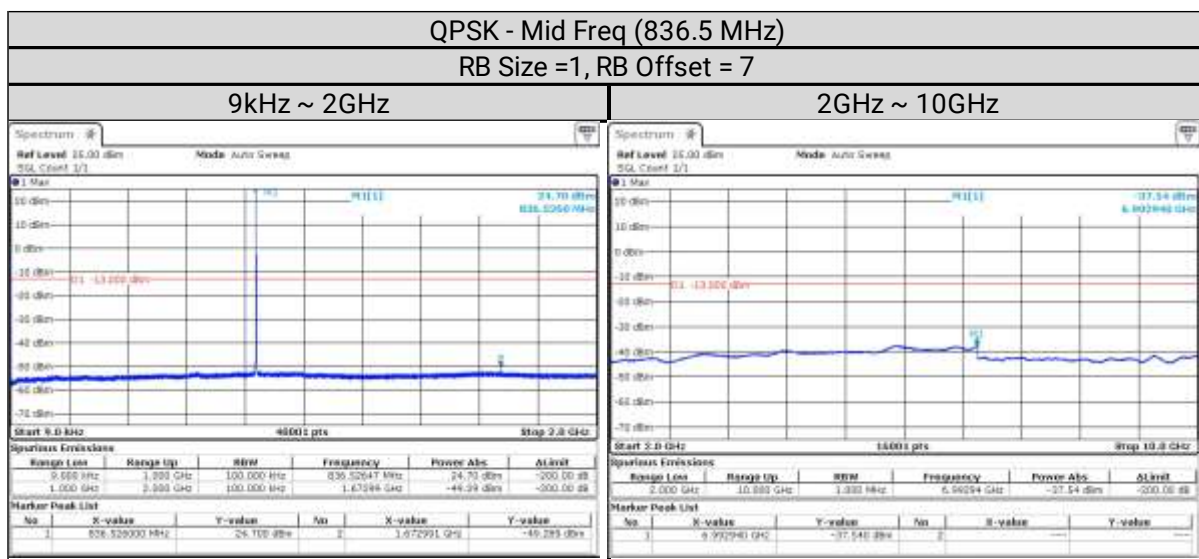
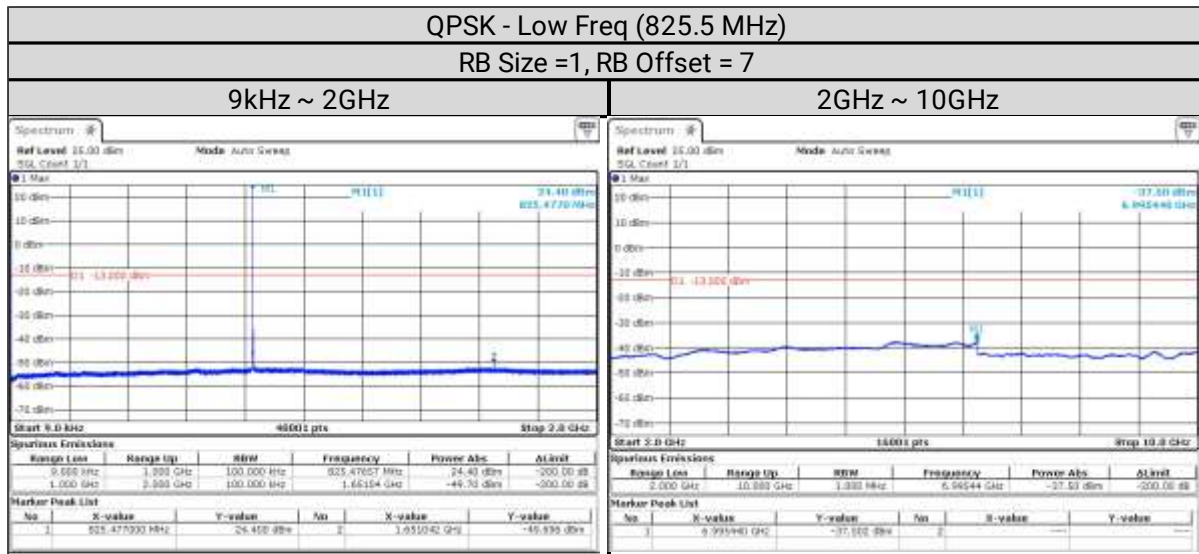
1.11.3. Conducted Spurious Emission - LTE Band 5 (824-849MHz)

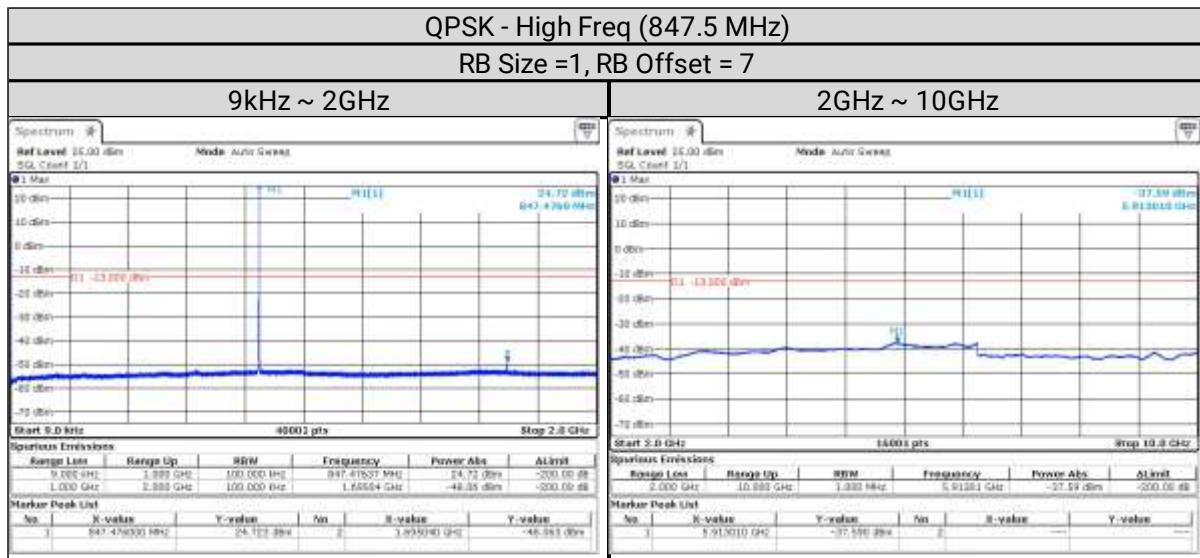
1.4MHz



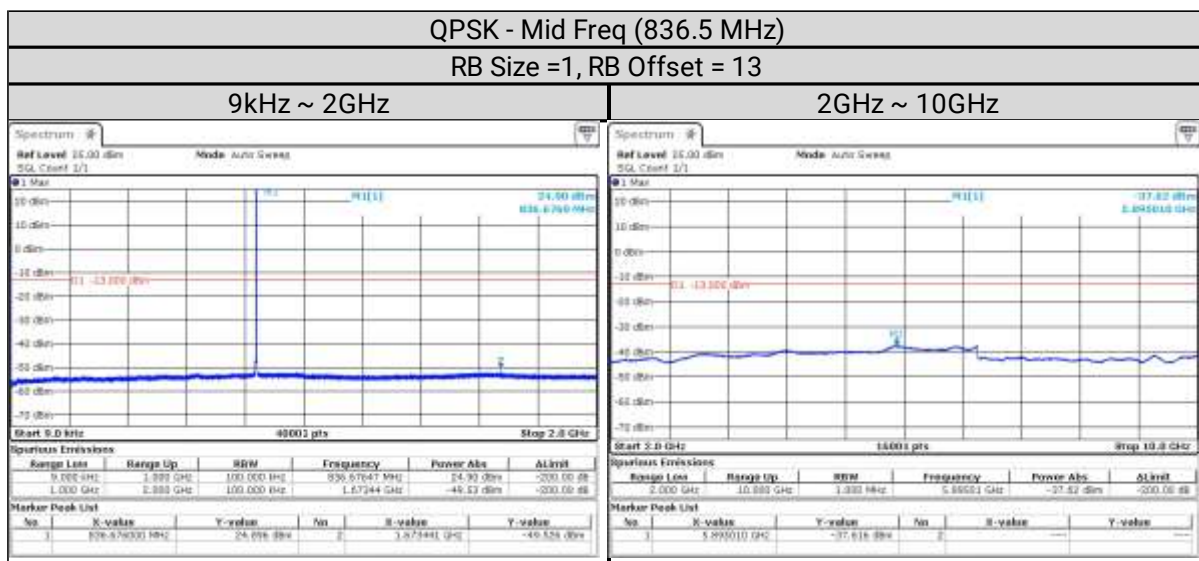
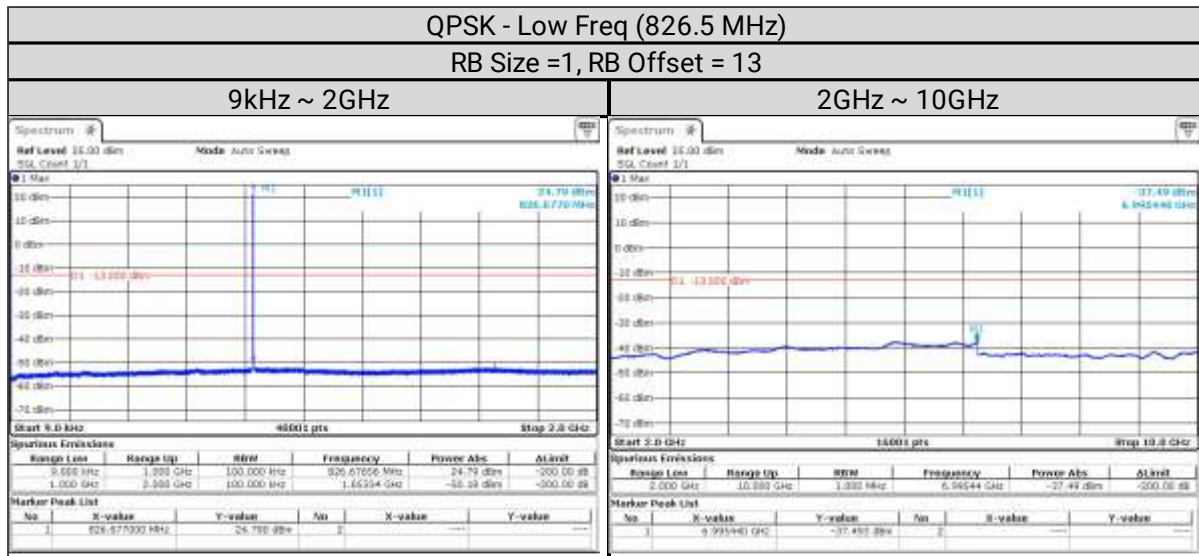


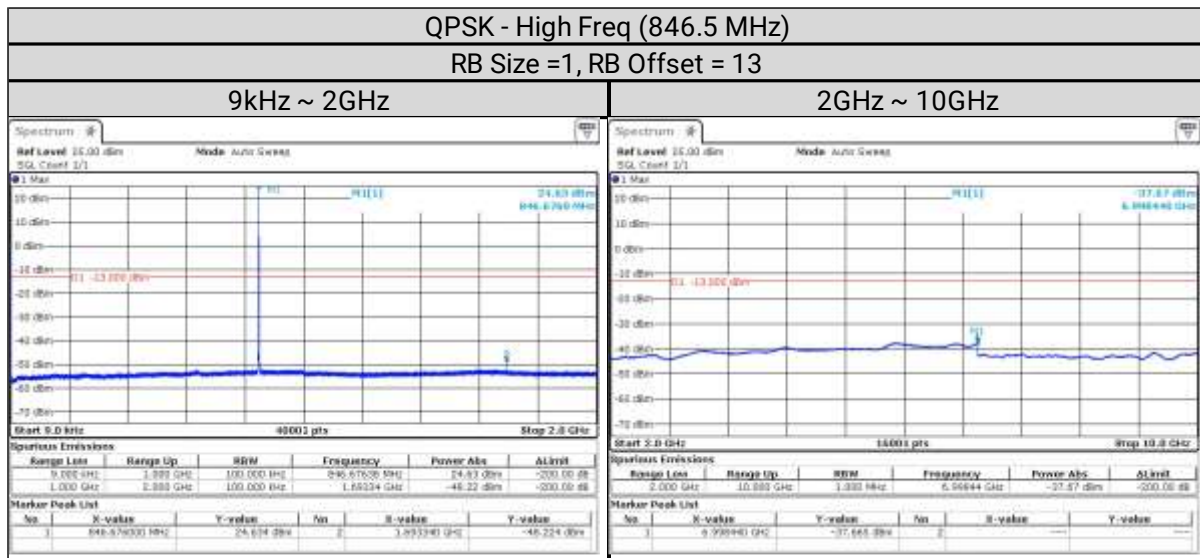
3MHz



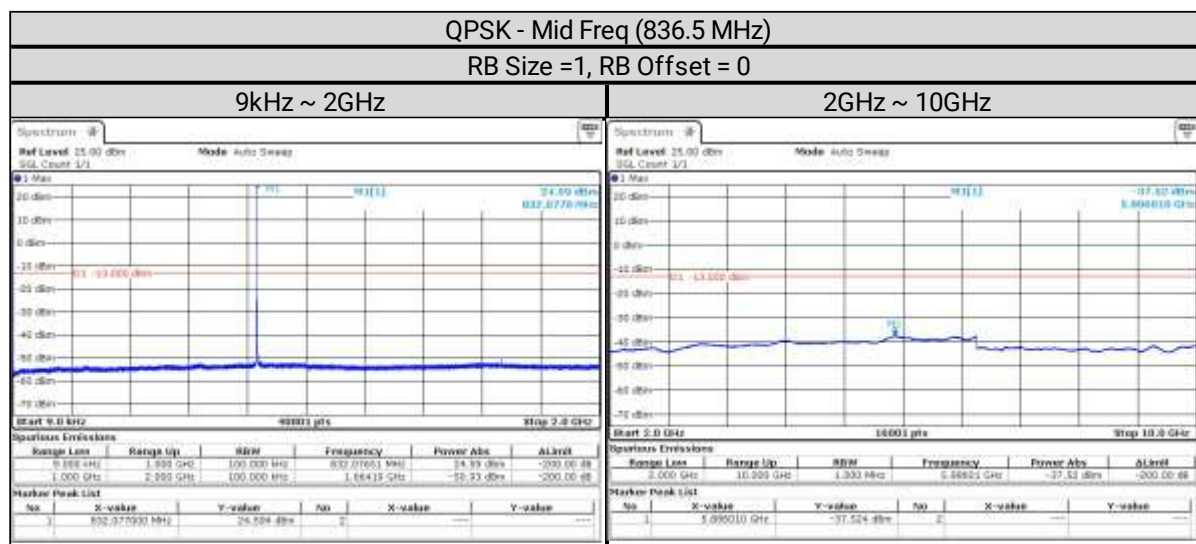
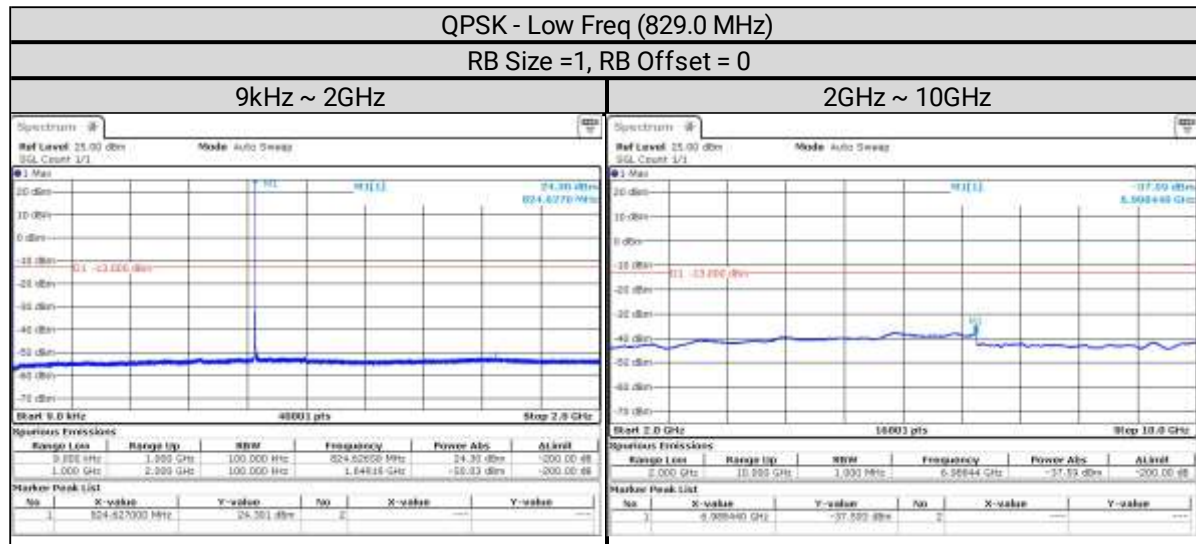


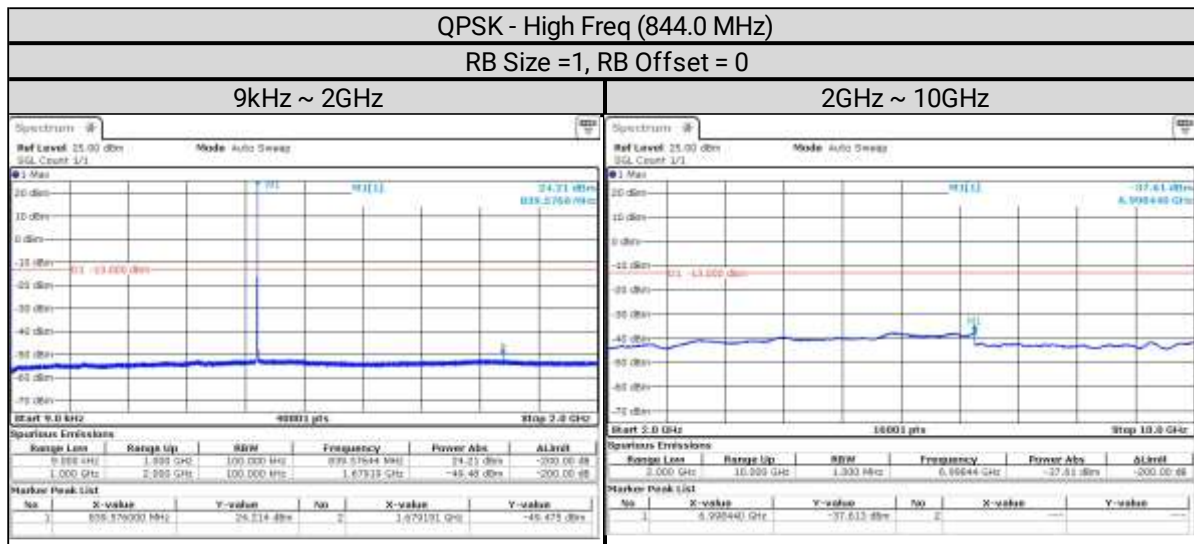
5MHz





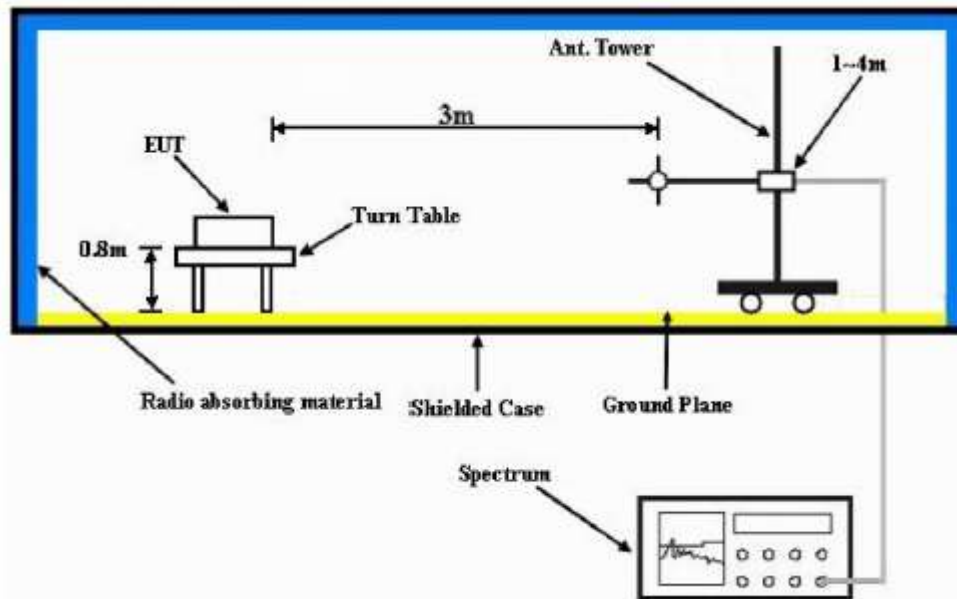
10MHz





1.12. Radiated Spurious Emission

1.12.1. Test Setup



- 1) The spectrum setting for scanning Radiated Emission below 1 GHz is RBW = 100 kHz, VBW = 300 kHz and above 1 GHz is RBW = 1MHz, VBW = 3MHz. Detector mode is positive peak.
- 2) In the semi-anechoic chamber, setup as illustrated above the EUT placed on the Turn Table at 0.8m height for below 1GHz measurement and at 1.5m height for above 1GHz measurement, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- 3) The substitution antenna is substituted for EUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
- 4) Final Radiated Spurious Emission = "Read Value" + Measured substitution value.

1.12.2. Test Limit

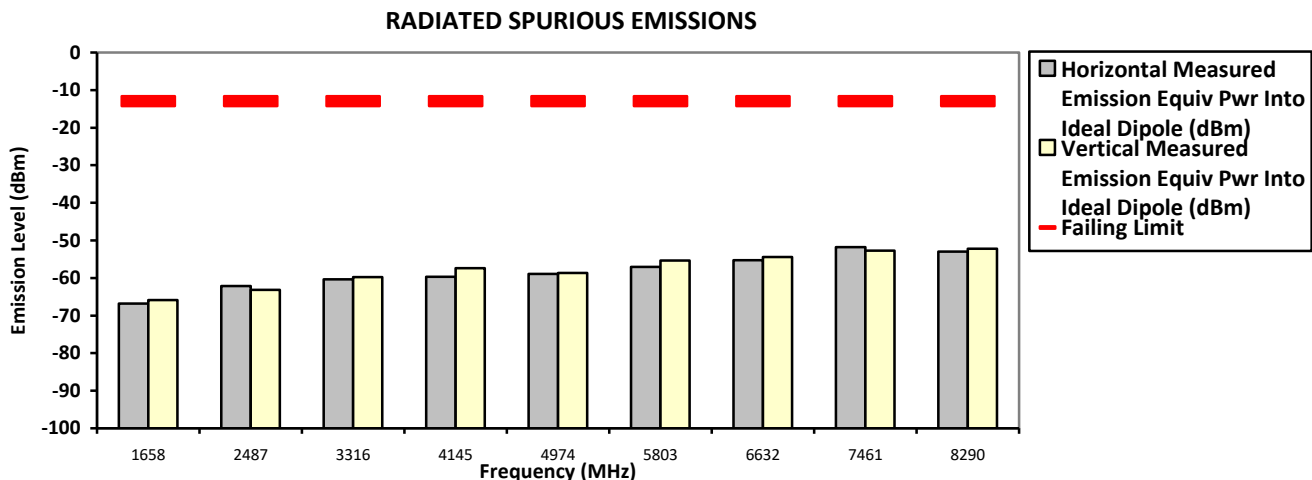
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

1.12.3. Radiated Spurious Emission – LTE Band 5 (824-849MHz)

Main Antenna

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (X-Plane)	Test Frequency: 829.000000 MHz (Low)
Channel Bandwidth: 10MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1658.0000	-13.0000	-66.8377 **	-65.8852 **
2487.0000	-13.0000	-62.1577 **	-63.1979 **
3316.0000	-13.0000	-60.3511 **	-59.7535 **
4145.0000	-13.0000	-59.6594 **	-57.3546 **
4974.0000	-13.0000	-58.8970 **	-58.6673 **
5803.0000	-13.0000	-57.0469 **	-55.3869 **
6632.0000	-13.0000	-55.2427 **	-54.4534 **
7461.0000	-13.0000	-51.8198 **	-52.7559 **
8290.0000	-13.0000	-52.9513 **	-52.1804 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Mon, 12 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH):68.6

Remarks:

Passed Results

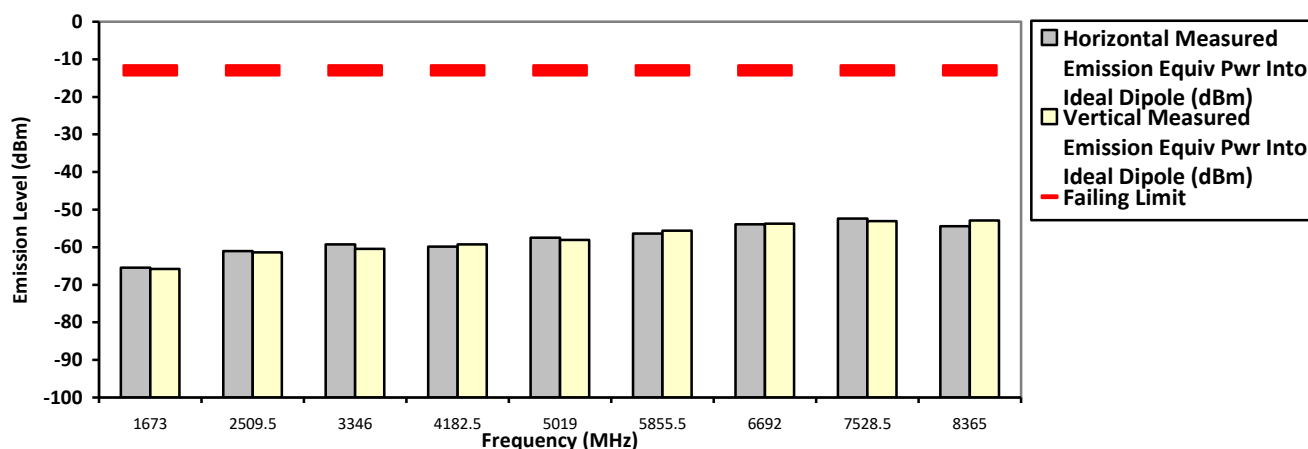
Marginal Results

Failed Results

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (X-Plane)	Test Frequency: 836.500000 MHz (Mid)
Channel Bandwidth: 5MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1673.0000	-13.0000	-65.4548 **	-65.8228 **
2509.5000	-13.0000	-61.0205 **	-61.4152 **
3346.0000	-13.0000	-59.2593 **	-60.4227 **
4182.5000	-13.0000	-59.8346 **	-59.2108 **
5019.0000	-13.0000	-57.5045 **	-58.0356 **
5855.5000	-13.0000	-56.3737 **	-55.6229 **
6692.0000	-13.0000	-53.8854 **	-53.7156 **
7528.5000	-13.0000	-52.3717 **	-53.0140 **
8365.0000	-13.0000	-54.3862 **	-52.9195 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Mon, 12 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH):68.6

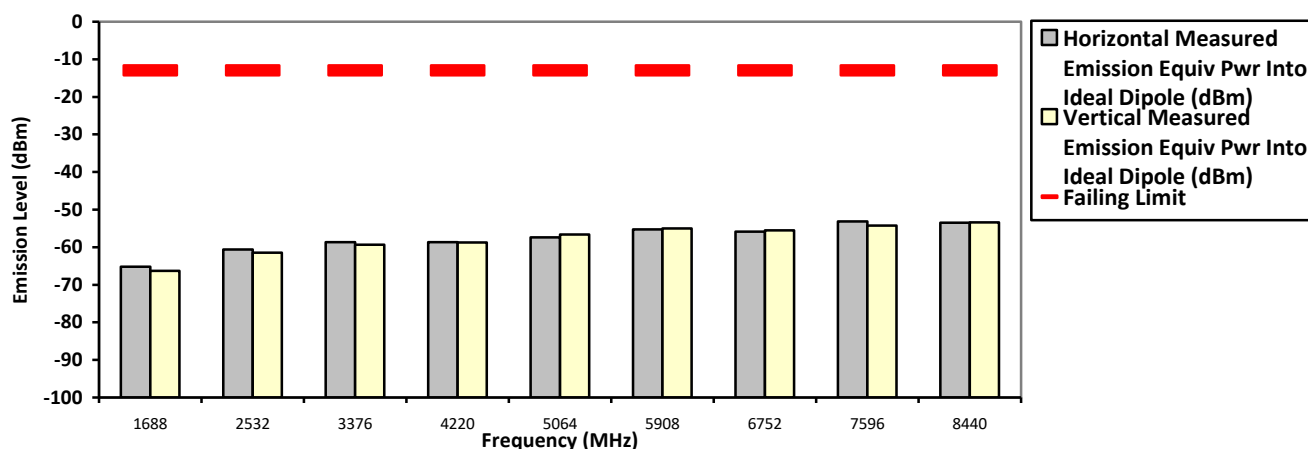
Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (X-Plane)	Test Frequency: 844.000000 MHz (High)
Channel Bandwidth: 10MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1688.0000	-13.0000	-65.1826 **	-66.2848 **
2532.0000	-13.0000	-60.5988 **	-61.5016 **
3376.0000	-13.0000	-58.6350 **	-59.3506 **
4220.0000	-13.0000	-58.6385 **	-58.7834 **
5064.0000	-13.0000	-57.3918 **	-56.6210 **
5908.0000	-13.0000	-55.2239 **	-55.0362 **
6752.0000	-13.0000	-55.8884 **	-55.5341 **
7596.0000	-13.0000	-53.1038 **	-54.2117 **
8440.0000	-13.0000	-53.4806 **	-53.4196 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Mon, 12 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH):68.6

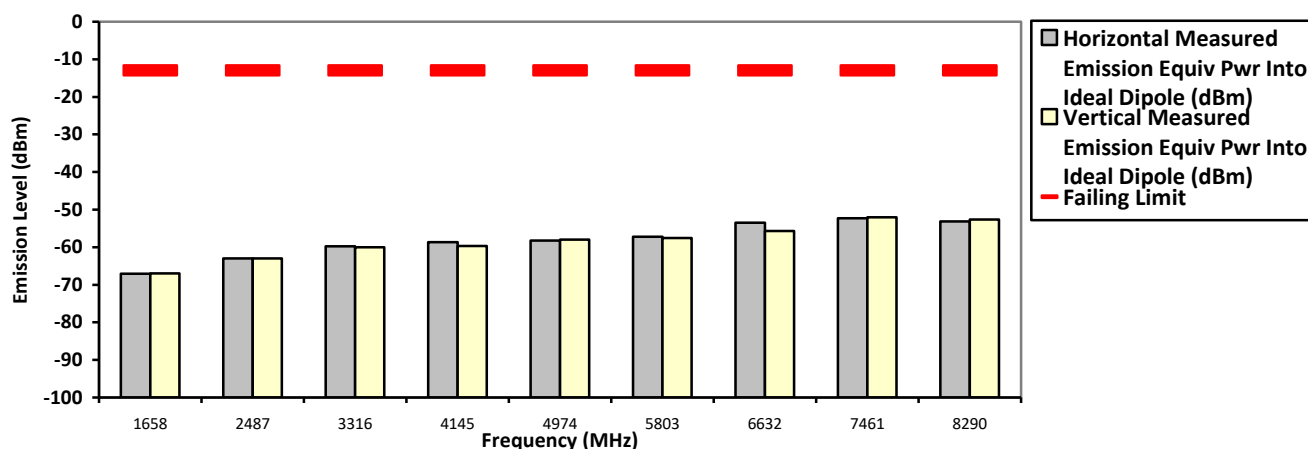
Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (Y-Plane)	Test Frequency: 829.000000 MHz (Low)
Channel Bandwidth: 10MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1658.0000	-13.0000	-67.0372 **	-66.9623 **
2487.0000	-13.0000	-62.9677 **	-62.9941 **
3316.0000	-13.0000	-59.7733 **	-60.0446 **
4145.0000	-13.0000	-58.6273 **	-59.6798 **
4974.0000	-13.0000	-58.2453 **	-58.0041 **
5803.0000	-13.0000	-57.2112 **	-57.5315 **
6632.0000	-13.0000	-53.5079 **	-55.7142 **
7461.0000	-13.0000	-52.3029 **	-52.0713 **
8290.0000	-13.0000	-53.1222 **	-52.6387 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Mon, 12 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH):68.6

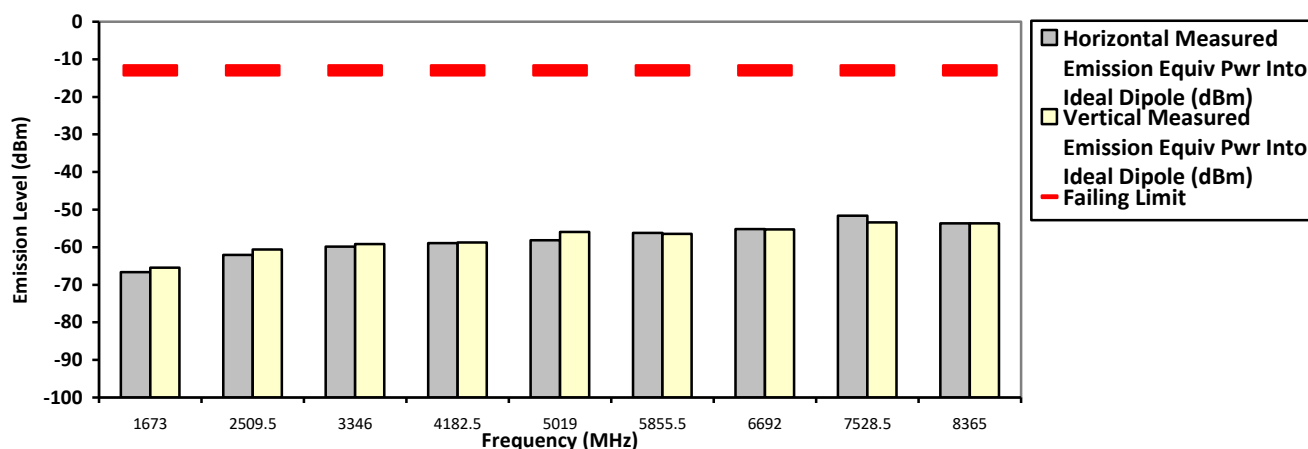
Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (Y-Plane)	Test Frequency: 836.500000 MHz (Mid)
Channel Bandwidth: 5MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1673.0000	-13.0000	-66.6265 **	-65.4173 **
2509.5000	-13.0000	-62.0785 **	-60.6337 **
3346.0000	-13.0000	-59.8471 **	-59.1452 **
4182.5000	-13.0000	-58.9309 **	-58.7350 **
5019.0000	-13.0000	-58.1676 **	-55.9593 **
5855.5000	-13.0000	-56.2197 **	-56.4318 **
6692.0000	-13.0000	-55.1867 **	-55.3032 **
7528.5000	-13.0000	-51.6193 **	-53.3996 **
8365.0000	-13.0000	-53.6150 **	-53.6603 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Mon, 12 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH):68.6

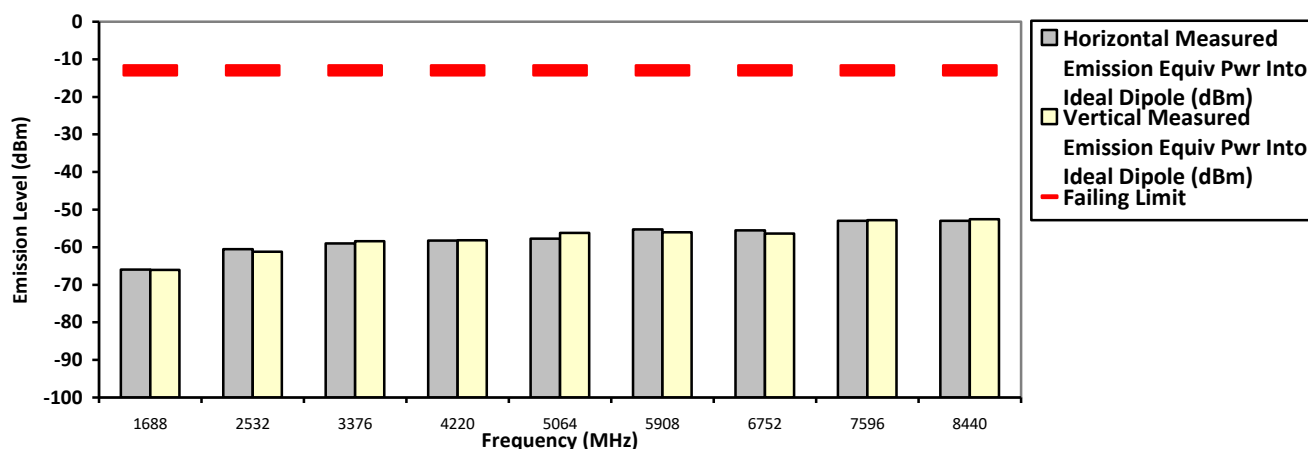
Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (Y-Plane)	Test Frequency: 844.000000 MHz (High)
Channel Bandwidth: 10MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1688.0000	-13.0000	-65.9653 **	-66.0232 **
2532.0000	-13.0000	-60.5235 **	-61.1991 **
3376.0000	-13.0000	-59.0100 **	-58.3939 **
4220.0000	-13.0000	-58.2755 **	-58.1913 **
5064.0000	-13.0000	-57.7443 **	-56.1997 **
5908.0000	-13.0000	-55.2814 **	-55.9902 **
6752.0000	-13.0000	-55.5507 **	-56.3633 **
7596.0000	-13.0000	-52.9629 **	-52.8152 **
8440.0000	-13.0000	-52.9307 **	-52.5216 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Mon, 12 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH):68.6

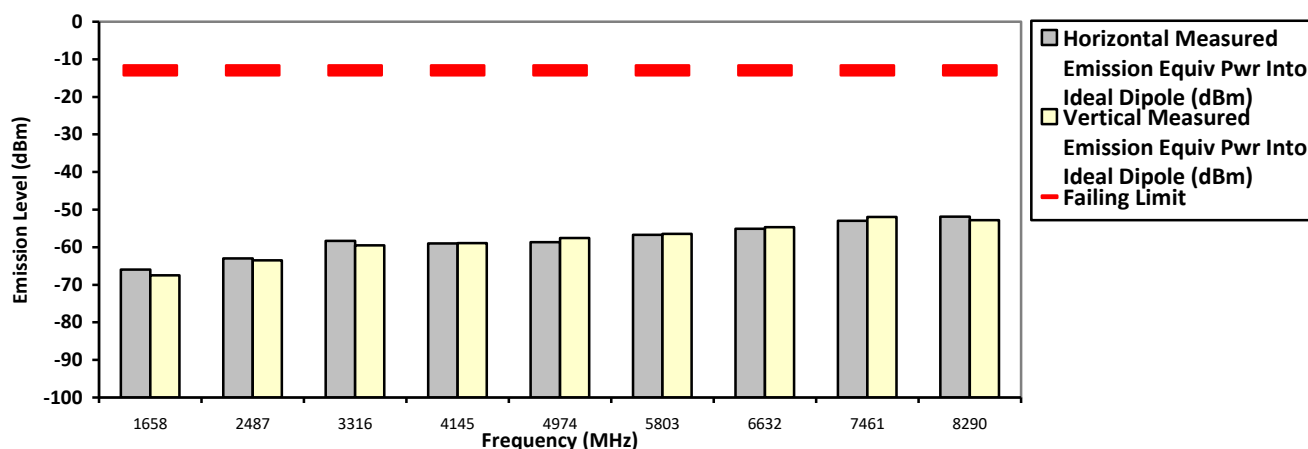
Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (Z-Plane)	Test Frequency: 829.000000 MHz (Low)
Channel Bandwidth: 10MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1658.0000	-13.0000	-65.9841 **	-67.5205 **
2487.0000	-13.0000	-62.9872 **	-63.5243 **
3316.0000	-13.0000	-58.2838 **	-59.5271 **
4145.0000	-13.0000	-58.9739 **	-58.9233 **
4974.0000	-13.0000	-58.6256 **	-57.5832 **
5803.0000	-13.0000	-56.7423 **	-56.4877 **
6632.0000	-13.0000	-55.1021 **	-54.6504 **
7461.0000	-13.0000	-52.9448 **	-51.9213 **
8290.0000	-13.0000	-51.8797 **	-52.8185 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Mon, 12 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH):68.6

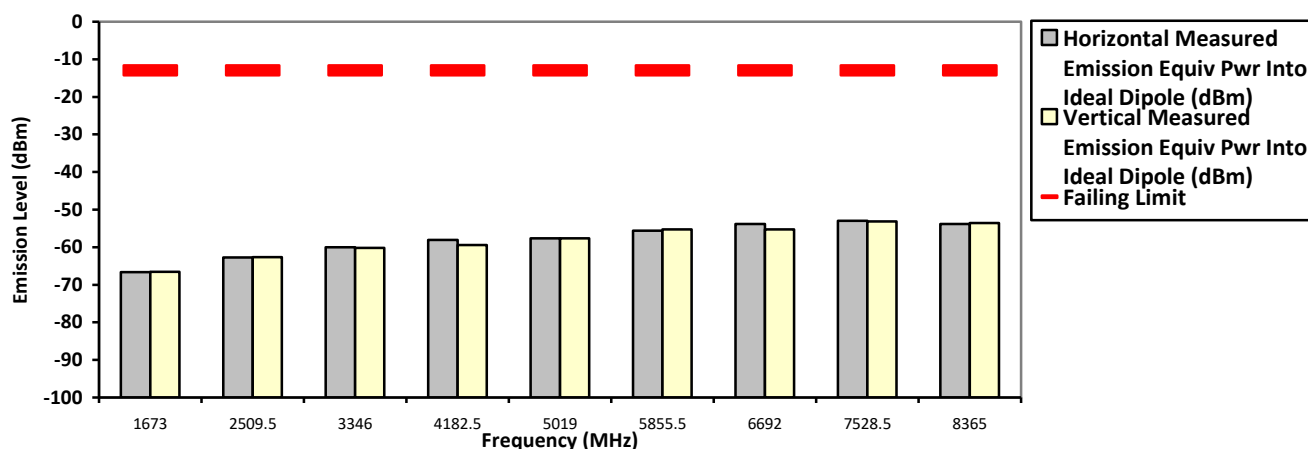
Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (Z-Plane)	Test Frequency: 836.500000 MHz (Mid)
Channel Bandwidth: 5MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1673.0000	-13.0000	-66.6408 **	-66.5227 **
2509.5000	-13.0000	-62.7360 **	-62.6516 **
3346.0000	-13.0000	-60.0009 **	-60.1467 **
4182.5000	-13.0000	-58.0923 **	-59.4489 **
5019.0000	-13.0000	-57.6103 **	-57.6272 **
5855.5000	-13.0000	-55.6061 **	-55.2620 **
6692.0000	-13.0000	-53.8020 **	-55.2369 **
7528.5000	-13.0000	-52.9451 **	-53.1345 **
8365.0000	-13.0000	-53.7971 **	-53.5958 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Mon, 12 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH):68.6

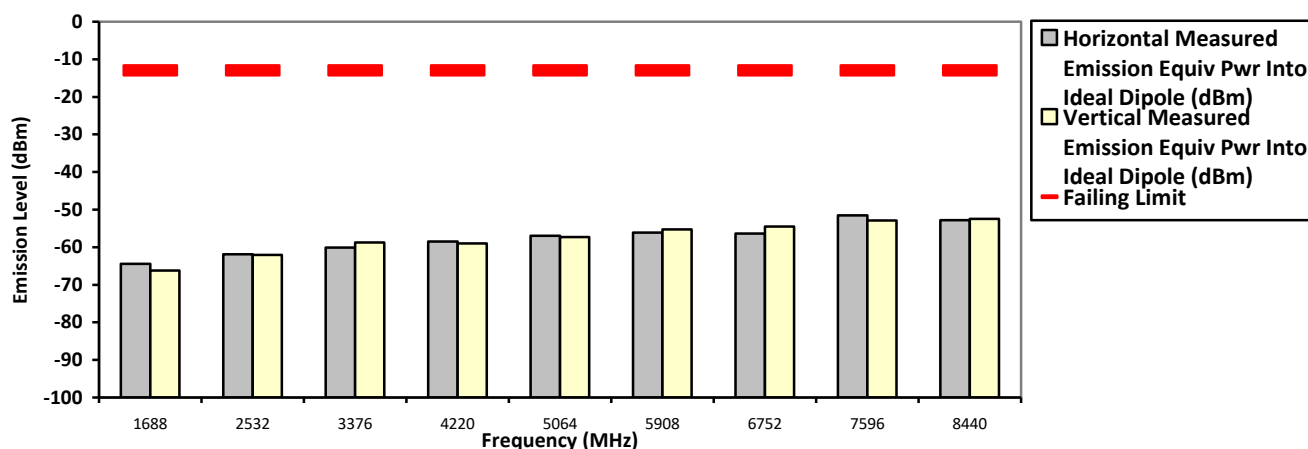
Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (Z-Plane)	Test Frequency: 844.000000 MHz (High)
Channel Bandwidth: 10MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1688.0000	-13.0000	-64.4475 **	-66.2319 **
2532.0000	-13.0000	-61.8698 **	-62.0791 **
3376.0000	-13.0000	-60.0699 **	-58.7167 **
4220.0000	-13.0000	-58.4548 **	-59.0188 **
5064.0000	-13.0000	-56.9727 **	-57.3287 **
5908.0000	-13.0000	-56.1231 **	-55.2752 **
6752.0000	-13.0000	-56.4064 **	-54.4918 **
7596.0000	-13.0000	-51.5083 **	-52.8873 **
8440.0000	-13.0000	-52.8022 **	-52.4451 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Mon, 12 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH):68.6

Remarks:

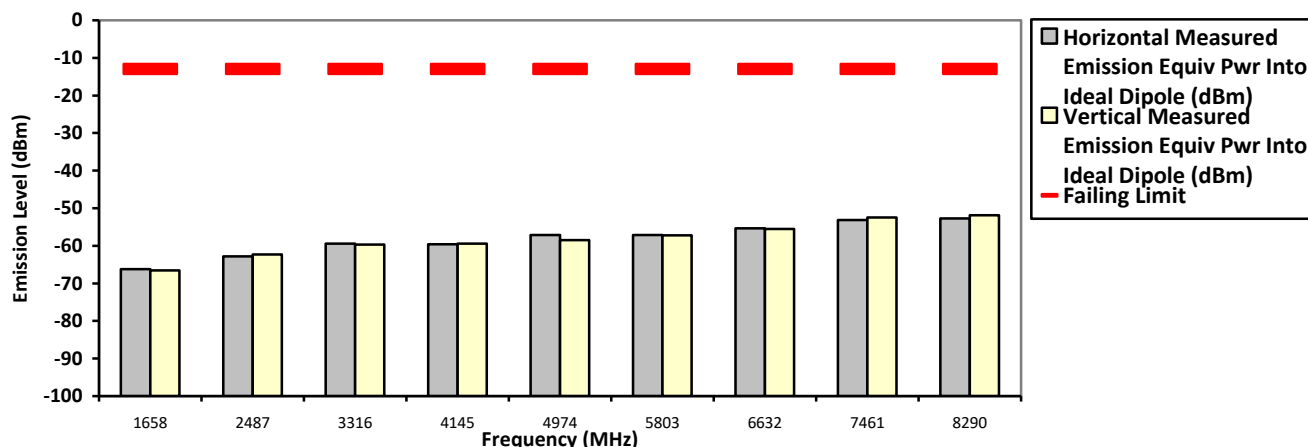
Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Diversity Antenna

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (X-Plane)	Test Frequency: 829.000000 MHz (Low)
Channel Bandwidth: 10MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1658.0000	-13.0000	-66.2194 **	-66.5910 **
2487.0000	-13.0000	-62.8509 **	-62.2842 **
3316.0000	-13.0000	-59.4187 **	-59.6575 **
4145.0000	-13.0000	-59.6039 **	-59.3855 **
4974.0000	-13.0000	-57.1351 **	-58.5204 **
5803.0000	-13.0000	-57.1460 **	-57.2137 **
6632.0000	-13.0000	-55.3586 **	-55.5019 **
7461.0000	-13.0000	-53.1677 **	-52.4871 **
8290.0000	-13.0000	-52.7170 **	-51.8332 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Tue, 13 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

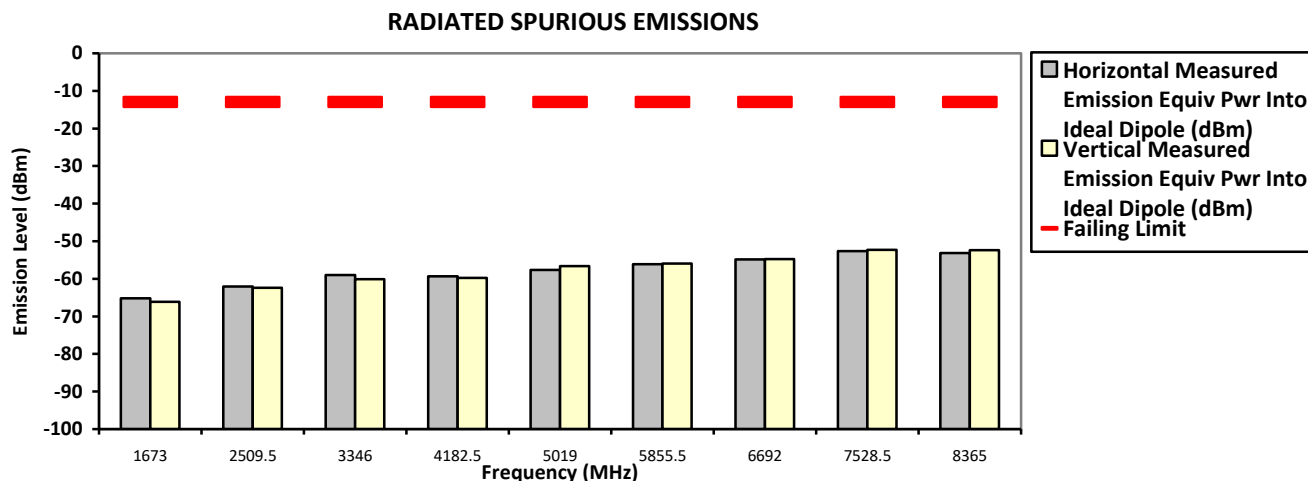
Temp(Deg): 23.4 Hum(%RH):68.6

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (X-Plane)	Test Frequency: 836.500000 MHz (Mid)
Channel Bandwidth: 5MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1673.0000	-13.0000	-65.1650 **	-66.1560 **
2509.5000	-13.0000	-62.0696 **	-62.3861 **
3346.0000	-13.0000	-59.0312 **	-60.1078 **
4182.5000	-13.0000	-59.3060 **	-59.7779 **
5019.0000	-13.0000	-57.6416 **	-56.6037 **
5855.5000	-13.0000	-56.0788 **	-55.9417 **
6692.0000	-13.0000	-54.8075 **	-54.7872 **
7528.5000	-13.0000	-52.6448 **	-52.2838 **
8365.0000	-13.0000	-53.1511 **	-52.3828 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Tue, 13 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH):68.6

Remarks:

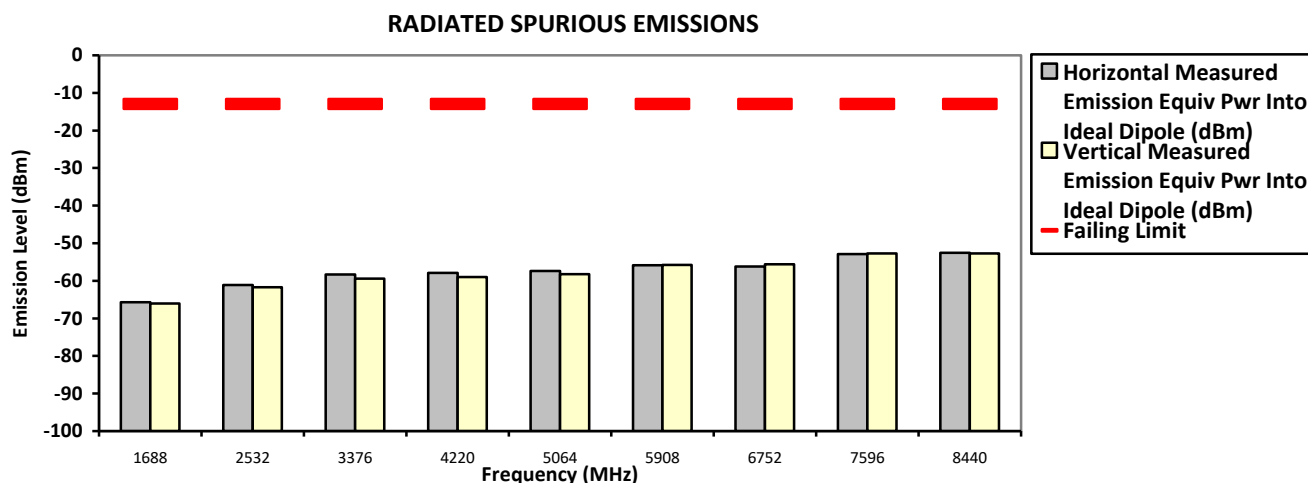
Passed Results

Marginal Results

Failed Results

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (X-Plane)	Test Frequency: 844.000000 MHz (High)
Channel Bandwidth: 10MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1688.0000	-13.0000	-65.6835 **	-66.0678 **
2532.0000	-13.0000	-61.1580 **	-61.7241 **
3376.0000	-13.0000	-58.3213 **	-59.4224 **
4220.0000	-13.0000	-57.8562 **	-58.9662 **
5064.0000	-13.0000	-57.3736 **	-58.2337 **
5908.0000	-13.0000	-55.8451 **	-55.7359 **
6752.0000	-13.0000	-56.1648 **	-55.6168 **
7596.0000	-13.0000	-52.9184 **	-52.7105 **
8440.0000	-13.0000	-52.5611 **	-52.6890 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Tue, 13 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH):68.6

Remarks:

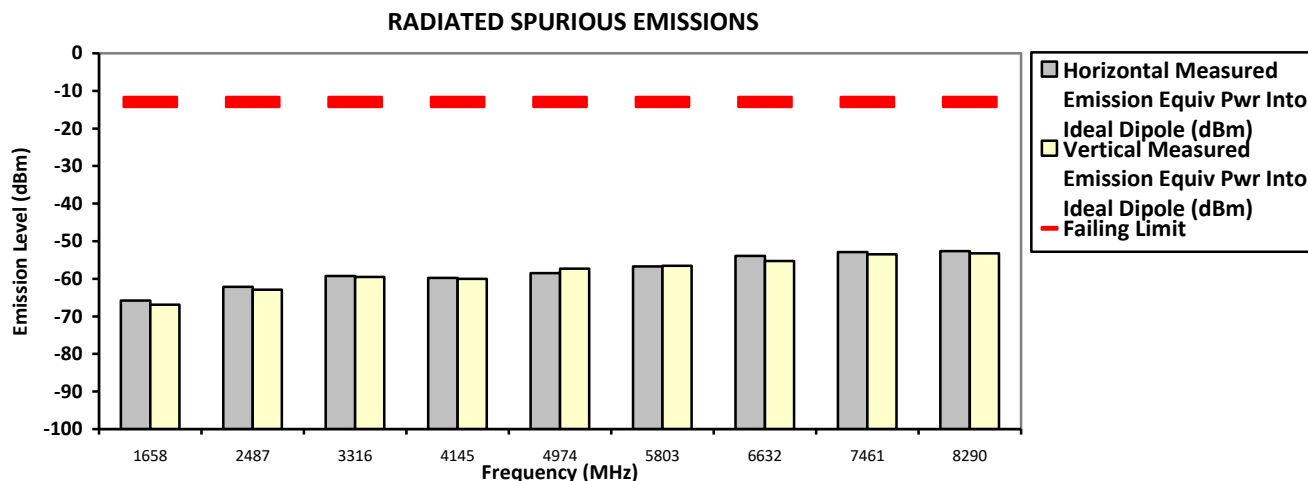
Passed Results

Marginal Results

Failed Results

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (Y-Plane)	Test Frequency: 829.000000 MHz (Low)
Channel Bandwidth: 10MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1658.0000	-13.0000	-65.7641 **	-66.9001 **
2487.0000	-13.0000	-62.1806 **	-62.8689 **
3316.0000	-13.0000	-59.2865 **	-59.5420 **
4145.0000	-13.0000	-59.7742 **	-59.9786 **
4974.0000	-13.0000	-58.4681 **	-57.2969 **
5803.0000	-13.0000	-56.7070 **	-56.5033 **
6632.0000	-13.0000	-53.9091 **	-55.2678 **
7461.0000	-13.0000	-52.8775 **	-53.4587 **
8290.0000	-13.0000	-52.6264 **	-53.2510 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Tue, 13 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH):68.6

Remarks:

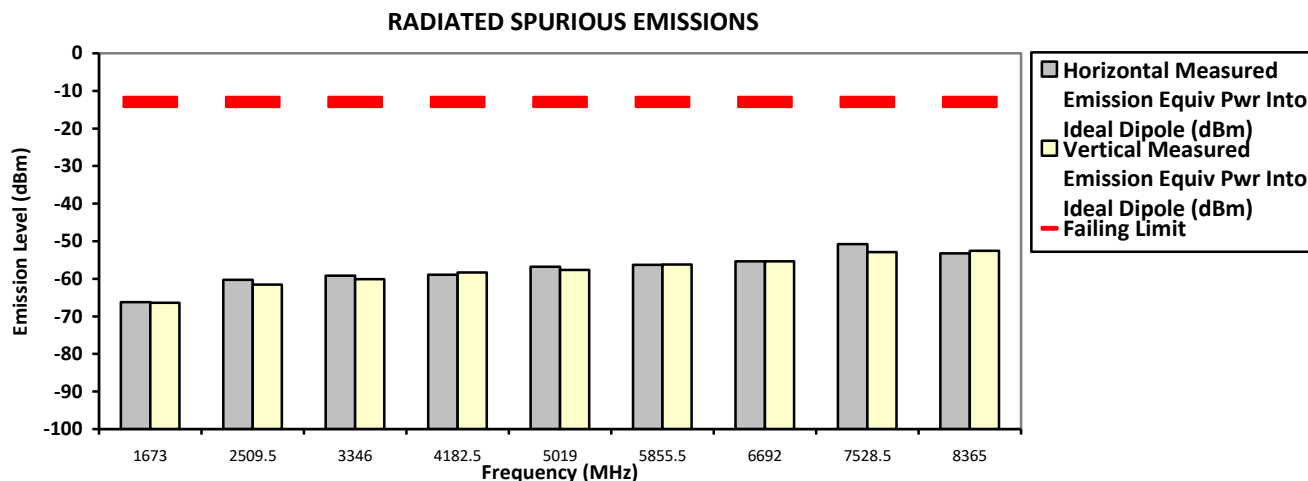
Passed Results

Marginal Results

Failed Results

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (Y-Plane)	Test Frequency: 836.500000 MHz (Mid)
Channel Bandwidth: 5MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1673.0000	-13.0000	-66.2483 **	-66.3600 **
2509.5000	-13.0000	-60.2911 **	-61.5473 **
3346.0000	-13.0000	-59.1579 **	-60.1199 **
4182.5000	-13.0000	-58.8710 **	-58.2984 **
5019.0000	-13.0000	-56.8085 **	-57.6265 **
5855.5000	-13.0000	-56.2957 **	-56.2265 **
6692.0000	-13.0000	-55.3765 **	-55.3209 **
7528.5000	-13.0000	-50.7784 **	-52.8958 **
8365.0000	-13.0000	-53.2501 **	-52.5099 **



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Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Tue, 13 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH):68.6

Remarks:

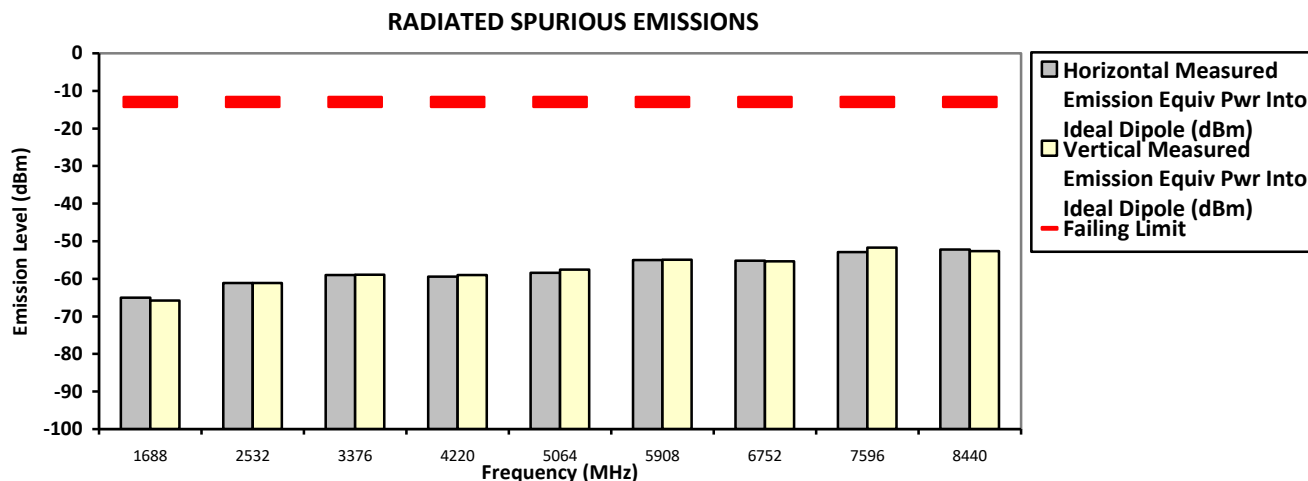
Passed Results

Marginal Results

Failed Results

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (Y-Plane)	Test Frequency: 844.000000 MHz (High)
Channel Bandwidth: 10MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1688.0000	-13.0000	-65.0497 **	-65.7712 **
2532.0000	-13.0000	-61.1243 **	-61.1454 **
3376.0000	-13.0000	-59.0343 **	-58.8992 **
4220.0000	-13.0000	-59.4251 **	-59.0105 **
5064.0000	-13.0000	-58.4309 **	-57.5574 **
5908.0000	-13.0000	-54.9945 **	-54.8851 **
6752.0000	-13.0000	-55.1506 **	-55.3376 **
7596.0000	-13.0000	-52.8768 **	-51.6989 **
8440.0000	-13.0000	-52.2247 **	-52.6293 **



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Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Tue, 13 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH):68.6

Remarks:

Passed Results

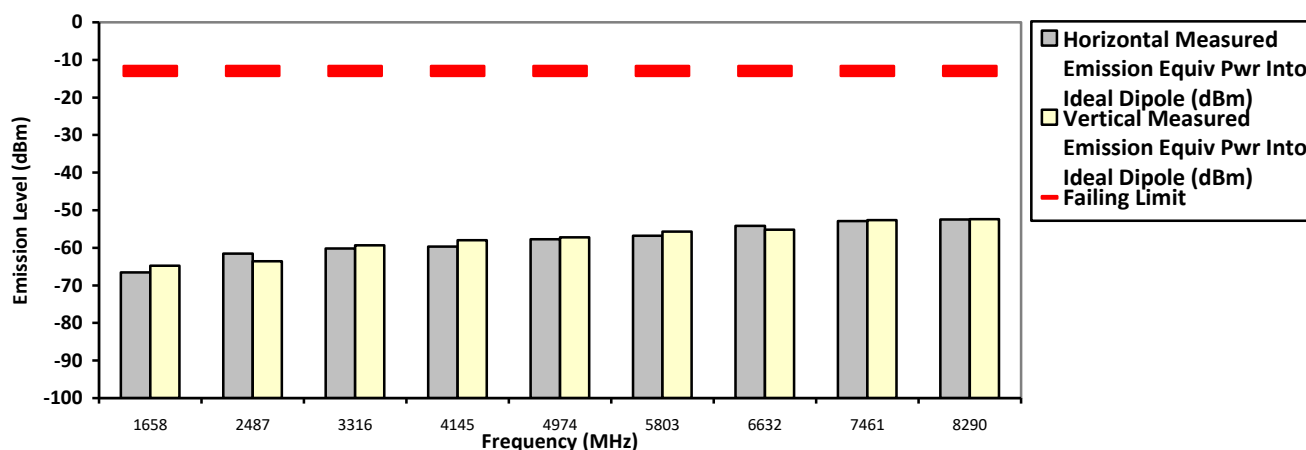
Marginal Results

Failed Results

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (Z-Plane)	Test Frequency: 829.000000 MHz (Low)
Channel Bandwidth: 10MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1658.0000	-13.0000	-66.5134 **	-64.7453 **
2487.0000	-13.0000	-61.5471 **	-63.6134 **
3316.0000	-13.0000	-60.1799 **	-59.3019 **
4145.0000	-13.0000	-59.6922 **	-57.9914 **
4974.0000	-13.0000	-57.6884 **	-57.2226 **
5803.0000	-13.0000	-56.8269 **	-55.6754 **
6632.0000	-13.0000	-54.1737 **	-55.1602 **
7461.0000	-13.0000	-52.8972 **	-52.6318 **
8290.0000	-13.0000	-52.4965 **	-52.3833 **

RADIATED SPURIOUS EMISSIONS



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Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Tue, 13 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH):68.6

Remarks:

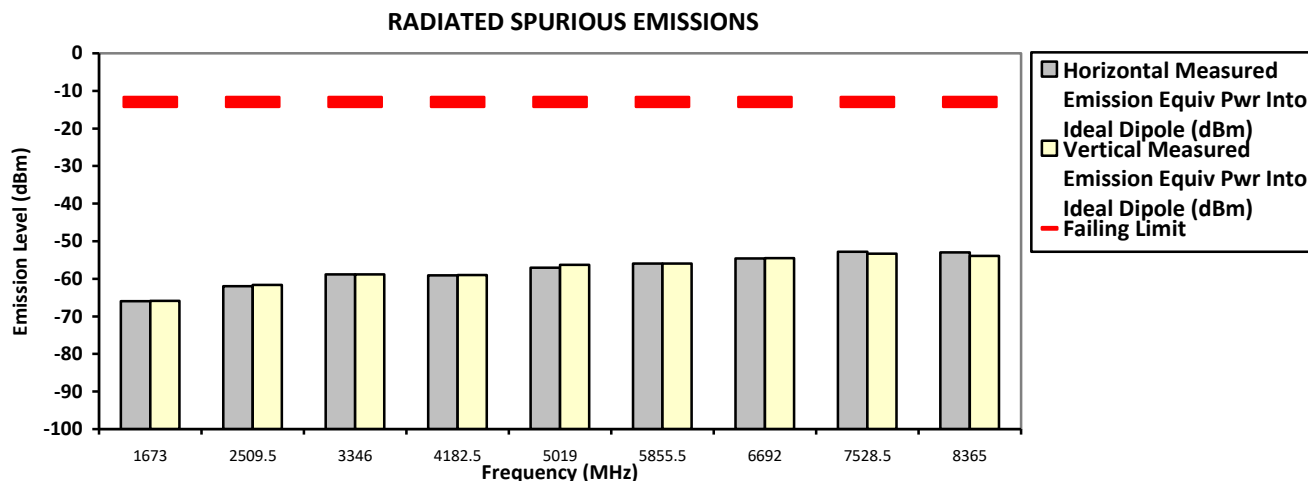
Passed Results

Marginal Results

Failed Results

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (Z-Plane)	Test Frequency: 836.500000 MHz (Mid)
Channel Bandwidth: 5MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1673.0000	-13.0000	-65.9592 **	-65.9061 **
2509.5000	-13.0000	-61.9415 **	-61.6139 **
3346.0000	-13.0000	-58.8045 **	-58.8168 **
4182.5000	-13.0000	-59.1213 **	-58.9843 **
5019.0000	-13.0000	-57.0116 **	-56.3128 **
5855.5000	-13.0000	-55.9333 **	-55.9421 **
6692.0000	-13.0000	-54.6228 **	-54.4606 **
7528.5000	-13.0000	-52.8211 **	-53.3446 **
8365.0000	-13.0000	-52.9694 **	-53.8769 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Tue, 13 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH):68.6

Remarks:

Passed Results

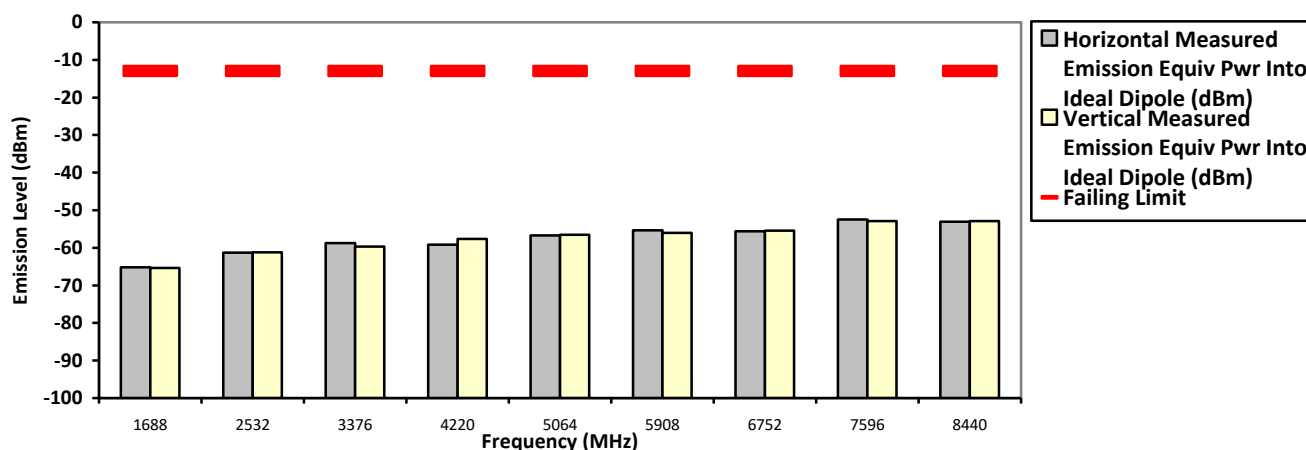
Marginal Results

Failed Results

Test: SAC Transmitter Radiated Emission	EMC SR ID: 0875N00-EMC-00079
Model Number: H55TGT9PW8BN	S/N: 437ZBG0594
Battery: PMNN4895A	
Accessory: AN000297A01	
Test Mode: TX LTE Band 5 (Z-Plane)	Test Frequency: 844.000000 MHz (High)
Channel Bandwidth: 10MHz	Power: 0.25119 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1688.0000	-13.0000	-65.2109 **	-65.3445 **
2532.0000	-13.0000	-61.2565 **	-61.1903 **
3376.0000	-13.0000	-58.7814 **	-59.6845 **
4220.0000	-13.0000	-59.2005 **	-57.6824 **
5064.0000	-13.0000	-56.7045 **	-56.5438 **
5908.0000	-13.0000	-55.3419 **	-56.0440 **
6752.0000	-13.0000	-55.6363 **	-55.4041 **
7596.0000	-13.0000	-52.4816 **	-52.9223 **
8440.0000	-13.0000	-53.0703 **	-52.8451 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Motorola Penang EMC Lab - Test Performed by: Nazrin & Fuad

Tue, 13 May, 2025

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH):68.6

Remarks:

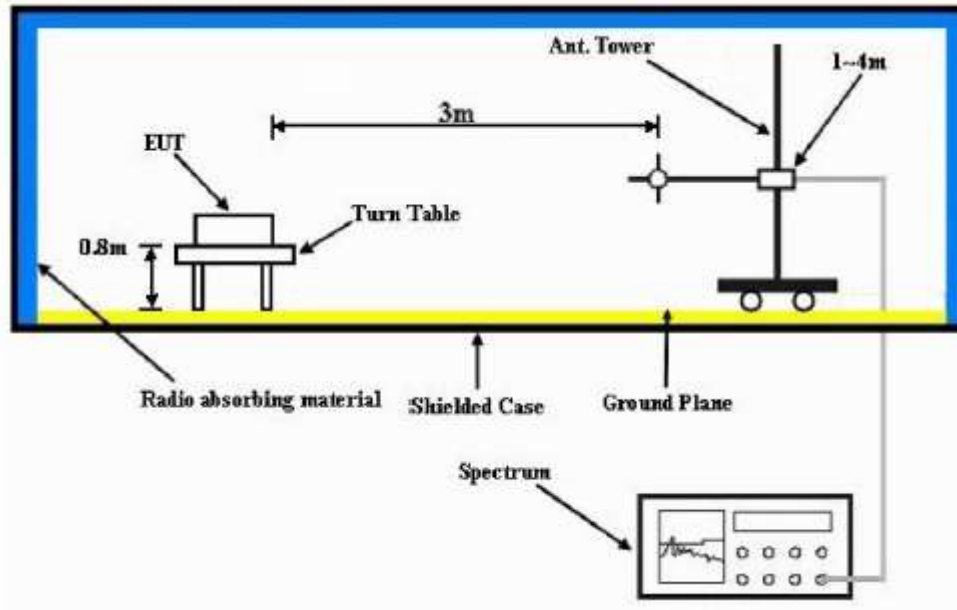
Passed Results

Marginal Results

Failed Results

1.13. Effective Radiated Power (ERP)

1.13.1. Test Setup



- 1) The spectrum setting for Effective Radiated Power (ERP) is RBW = 100 kHz, VBW = 300 kHz. Detector Mode is RMS.
- 2) In the semi-anechoic chamber, setup as illustrated above the EUT placed on the Turn Table at 0.8m height for below 1GHz measurement and at 1.5m height for above 1GHz measurement, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- 3) The substitution antenna is substituted for EUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
- 4) $ERP = \text{"Read Value"} + \text{Measured substitution value.}$

1.13.2. Test Limit

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

[Refer to 1.6.4 / Not Performed.](#)

--End of Test Report--