

 MOTOROLA SOLUTIONS	    CERTIFICATE 2518.08 SAMM 825																																
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.C																																
<table><tr><td>Date/s Tested</td><td>: 04-February-2026 - 12-February-2026</td></tr><tr><td>Report Issue Date</td><td>: 16-March-2026</td></tr><tr><td>Manufacturer/Location</td><td>: Motorola Solutions Malaysia Sdn Bhd</td></tr><tr><td>Manufacturer Address</td><td>: Motorola Solutions Malaysia Sdn Bhd, Plot 2A, Medan Bayan Lepas Mukim 12, S.W.D 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>Requestor</td><td>: Ooi VernYin</td></tr><tr><td>Product Type</td><td>: Hand-held</td></tr><tr><td>Product Marketing Name (PMN)</td><td>: TLK 200</td></tr><tr><td>Hardware Version Identification Number (HVIN)</td><td>: HK2300A</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>: D01.00.01 (BP), D01.06.08 (AP)</td></tr></table> The equipment was tested accordance to the requirement listed below: <table><tr><td>(LTE Band 17) FCC 47 CFR Part 2 / 27 ISED RSS-GEN (Issue 5), Amendment 1 (Mar 2019), Amendment 2 (Feb 2021) RSS-130 (Issue 2)</td><td>PASS</td></tr></table>		Date/s Tested	: 04-February-2026 - 12-February-2026	Report Issue Date	: 16-March-2026	Manufacturer/Location	: Motorola Solutions Malaysia Sdn Bhd	Manufacturer Address	: Motorola Solutions Malaysia Sdn Bhd, Plot 2A, Medan Bayan Lepas Mukim 12, S.W.D 11900 Bayan Lepas, Penang, Malaysia	Requestor	: Ooi VernYin	Product Type	: Hand-held	Product Marketing Name (PMN)	: TLK 200	Hardware Version Identification Number (HVIN)	: HK2300A	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)	: D01.00.01 (BP), D01.06.08 (AP)	(LTE Band 17) FCC 47 CFR Part 2 / 27 ISED RSS-GEN (Issue 5), Amendment 1 (Mar 2019), Amendment 2 (Feb 2021) RSS-130 (Issue 2)	PASS
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Prepared By:  Nur Amanina binti Ahmad Nizam Technician	Approve Signatory:  Zulhairudin bin Zulkifli Responsible Engineer																																

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REVISION HISTORY

Revision History	Description	Date	Originator
Rev. A	Initial Report	16-March-2026	Nur Amanina
Rev. B	Change of PMN from Scorpio-NA to TLK 200	07-April-2026	Nur Amanina
Rev. C	1.Amend data of OBW RBW BW 5MHz and 10MHz and BandEdge low channel RB=1 for BW 10MHz. 2.Update Detector =average at Section 1.11. 3.Update justification note at Section 1.12.	24-June-2026	Nur Amanina

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 4.6	Conducted RF Output Power	Pass	Meet the requirement of limit	64222BY0126
-	RSS-130 4.6	Peak-to-Average Power Ratio	Pass	Meet the requirement of limit	64222BY0126
2.1046	RSS-Gen 6.7	Occupied Bandwidth (26dBc, 99%)	Pass	Meet the requirement of limit	64222BY0126
2.1055 27.54	RSS-130 4.5	Frequency Stability	Pass	Meet the requirement of limit	64222BY0126
2.1051 27.53(g)	RSS-Gen 6.13 RSS-130 4.7	Band Edge Conducted Spurious Emission	Pass	Meet the requirement of limit	64222BY0126
2.1051 27.53(g)	RSS-Gen 6.13 RSS-130 4.7	Conducted Spurious Emissions	Pass	Meet the requirement of limit	64222BY0126
2.1053 27.53(g)	RSS-130 4.7	Radiated Spurious Emission	Pass	-53.31 dBm (Margin: 40.31 dB, Noise Floor)	64222BY0124
2.1049 27.50(c)(9)(10)	RSS-130 4.6	Effective Radiated Power (ERP)	Pass	Meet the requirement of limit	64222BY0126

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	172589	06-Nov-25	05-Nov-26
SIGNAL ANALYZER	FSV40	101431	07-Aug-25	06-Aug-26
CHAMBER	SH-641	92003150	09-Sep-25	09-Sep-26
POWER SUPPLY	6652A	3640A02941	20-Jan-26	20-Jan-27
TEST SOFTWARE	R&S CMWrun			
VERSION	V.1.9.8			
RADIATED SPURIOUS EMISSION (EMC CHAMBER 1)				
DRG HORN FREQ.	SAS-571	719	31-Oct-25	31-Oct-26
DRG HORN FREQ.	SAS-571	1027	21-Jul-25	21-Jul-26
DC POWER SUPPLY	N7977A	MY54420118	16-Apr-25	16-Apr-26
SIGNAL GENERATOR	SMB 100A	180683	20-Dec-24	20-Dec-27
EMI TEST RECEIVER	ESW44	101731	11-Aug-25	10-Aug-26
5M SEMI-ANECHOIC CHAMBER	S800-HX	J2308	Not Required	Not Required
BILOG ANTENNA	CBL 6112D	55546	30-Jun-25	30-Jun-26
BILOG ANTENNA	CBL6112D	30991	18-Mar-25	18-Mar-26
DATA LOGGER THERMOHYGROMETER	SDL500	A.016785	16-Jul-25	16-Jul-26
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	BBHA9170255	02-Apr-25	02-Apr-26
PREAMPLIFIER 18-40GHZ	JS44-18004000-33-8P	2034566	Not Required	Not Required
PREAMPLIFIER 1-18GHZ	EMC0518A45SE	981005	19-Sep-25	18-Sep-26
WIDEBAND RADIO COMMUNICATION TESTER	CMW500	153174	11-Jul-25	11-Jul-26
PREAMPLIFIER	PAM-0118P	361	29-Sep-23	29-Sep-26
LOOP ANTENNA	6502	00203479	02-Apr-25	02-Apr-26
TEST SOFTWARE	EMC.FCC.IC.RE.v1.8.1			
VERSION	1.8.1			

1.3. General Information

General Description of EUT

Product	TLK 200			
Brand	Motorola Solutions			
Test Model	HK2300A			
Power Supply Rating	3.8 Vdc			
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 RF Output Power	LTE Band 17 QPSK	Channel Bandwidth 5MHz	23.29dBm (0.21W)	
		Channel Bandwidth 10MHz	23.89dBm (0.25W)	
	LTE Band 17 16QAM	Channel Bandwidth 5MHz	22.28dBm (0.17W)	
		Channel Bandwidth 10MHz	22.78dBm (0.19W)	
Emission Designator	LTE Band 17		QPSK	16QAM
		Channel Bandwidth 5MHz	4M48G7D	4M47D7W
		Channel Bandwidth 10MHz	8M91G7D	8M91D7W
Antenna Type	LTE Band 17	Stubby, Antenna LTE Low Band 704 – 716MHz (1dBi)		
SW Version	D01.00.01 (BP), D01.06.08 (AP)			
HW Version	P2			

Note:

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

Item	Brand	Model or P/N	Specification
Li-Ion Battery	MOTOROLA	PMNN4578A	BATTERY PACK, BATTERY PACK, BATT LIION 2500T

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	172589	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
KDB 971168 D02 Misc OOB License Digital Systems v02r02
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 17	5 MHz	23755 ~ 23825	23755	23790	23825	706.5	710.0	713.5
	10 MHz	23780 ~ 23800	23780	23790	23800	709.0	710.0	711.0

1.5. Test Mode Applicability and Tested Channel Detail

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 17

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted RF Output Power	23755 ~ 23825	23755, 23710, 23825	5 MHz	QPSK, 16QAM	As per table 1.6.3
	23780 ~ 23800	23780, 23710, 23800	10 MHz		
Peak-to-Average Power Ratio	23755 ~ 23825	23755, 23710, 23825	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
	23780 ~ 23800	23780, 23710, 23800	10 MHz		50 RB / 0 RB Offset
Occupied Bandwidth	23755 ~ 23825	23755, 23710, 23825	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
	23780 ~ 23800	23780, 23710, 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, 23710, 23825	5 MHz	QPSK	1 RB / 13 RB Offset
	23780 ~ 23800	23780, 23710, 23800	10 MHz		1 RB / 25 RB Offset
Radiated Spurious Emission	23755 ~ 23825	23755	10 MHz	QPSK	1 RB / 25 RB Offset
	23780 ~ 23800	23710	10 MHz	QPSK	1 RB / 25 RB Offset
	23780 ~ 23800	23800	10 MHz	QPSK	1 RB / 25 RB Offset
Effective Radiated Power (ERP)	23755 ~ 23825	23755, 23710, 23825	5 MHz	QPSK, 16QAM	As per table 1.6.4
	23780 ~ 23800	23780, 23710, 23800	10 MHz		

NOTE:

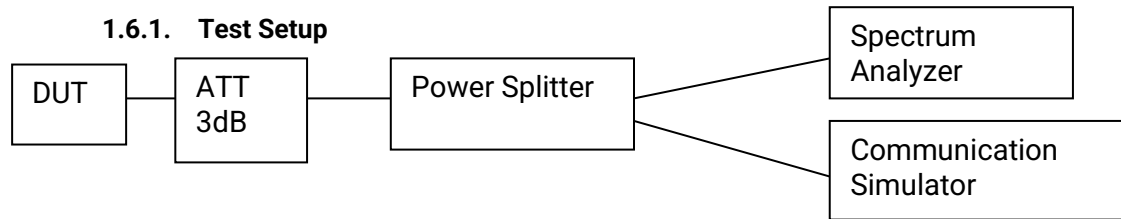
1. The Conducted RF Output Power for QPSK and 16QAM, measured value of QPSK mode is higher than 16QAM mode. Therefore, Conducted Spurious Emission and Radiated Emission had been tested under QPSK modes.
2. Band Edge was performed with 1 and full Resource Block at the lowest and highest operating frequency 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. The 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	3.8 Vdc	Nur Amanina
Peak-to-Average Power Ratio	25°C, 50% RH	3.8 Vdc	Nur Amanina
Occupied Bandwidth	25°C, 50% RH	3.8 Vdc	Nur Amanina
Frequency Stability	-30°C ~ 60°C	3.8 Vdc	Nur Amanina
Band Edge Conducted Spurious Emission	25°C, 50% RH	3.8 Vdc	Nur Amanina
Conducted Spurious Emission	25°C, 50% RH	3.8 Vdc	Nur Amanina
Radiated Spurious Emission	23.5°C, 68.8% RH	3.8 Vdc	Qawiman & Rezza Nazrin & Fuad
Effective Radiated Power (ERP)	25°C, 50% RH	3.8 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: 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.r.p. shall not exceed 3 watts for portable equipment and 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	23.11	23.20	23.12	22.22	22.21	22.06
	1	13	23.13	23.02	23.29	22.22	22.28	22.18
	1	24	23.10	22.92	22.88	22.10	21.98	21.66
	12	0	22.28	22.23	22.17	21.22	21.18	20.97
	12	6	22.39	22.26	22.26	21.11	21.11	21.05
	12	13	22.35	22.21	22.11	21.22	21.08	20.96
	25	0	22.32	22.24	22.22	21.25	21.34	21.15

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	23.68	23.11	23.12	21.94	22.67	22.78
	1	25	23.89	23.49	23.37	21.74	22.65	22.77
	1	49	23.38	22.94	23.08	21.53	22.08	22.53
	25	0	22.50	22.42	22.31	21.51	21.42	21.43
	25	13	22.45	22.24	22.27	21.64	21.30	21.33
	25	25	22.28	22.19	22.20	21.50	21.37	21.46
	50	0	22.36	22.28	22.24	21.33	21.15	21.16

1.6.4. Effective Radiated Power – 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	21.96	22.05	21.97	21.07	21.06	20.91
	1	13	21.98	21.87	22.14	21.07	21.13	21.03
	1	24	21.95	21.77	21.73	20.95	20.83	20.51
	12	0	21.13	21.08	21.02	20.07	20.03	19.82
	12	6	21.24	21.11	21.11	19.96	19.96	19.90
	12	13	21.20	21.06	20.96	20.07	19.93	19.81
	25	0	21.17	21.09	21.07	20.10	20.19	20.00

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	22.53	21.96	21.97	20.79	21.52	21.63
	1	25	22.74	22.34	22.22	20.59	21.50	21.62
	1	49	22.23	21.79	21.93	20.38	20.93	21.38
	25	0	21.35	21.27	21.16	20.36	20.27	20.28
	25	13	21.30	21.09	21.12	20.49	20.15	20.18
	25	25	21.13	21.04	21.05	20.35	20.22	20.31
	50	0	21.21	21.13	21.09	20.18	20.00	20.01

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

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

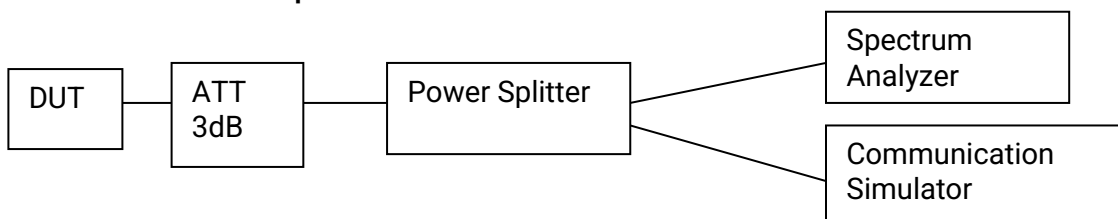
$$\text{ERP} = \text{EIRP} - 2.15$$

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



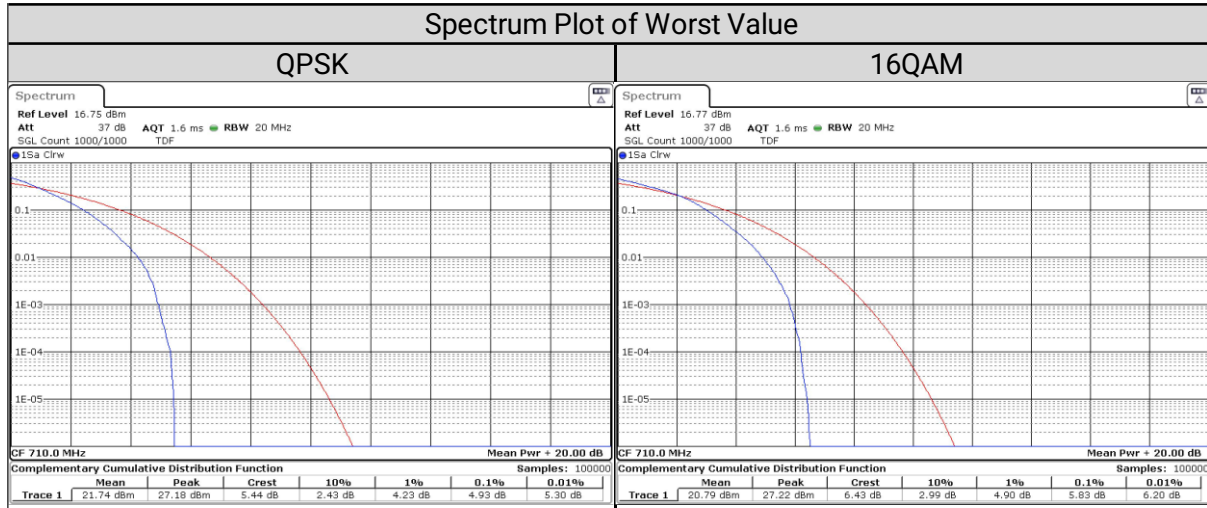
1. The DUT transmitter output port was connected to communication simulator with above setup.
2. Path loss for the measurement included.
3. Set DUT to transmit maximum power through communication simulator
4. Set the CCDF (Complementary Cumulative Distribution Function) option in the spectrum analyzer.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

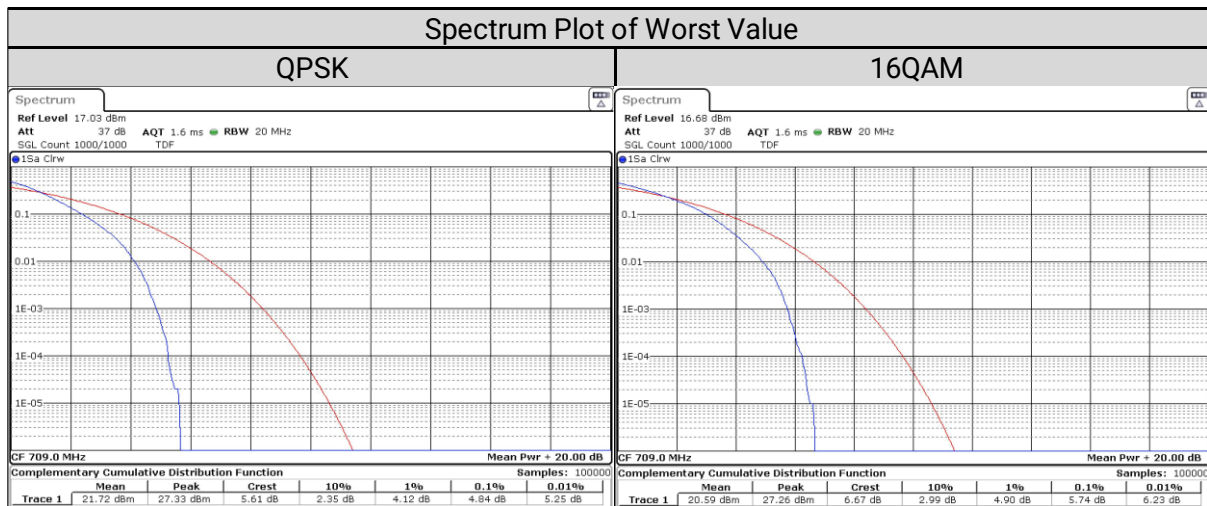
In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

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	4.754	5.623
	Mid CH 23790	710 MHz	4.928	5.826
	High CH 23825	713.5 MHz	4.493	5.333

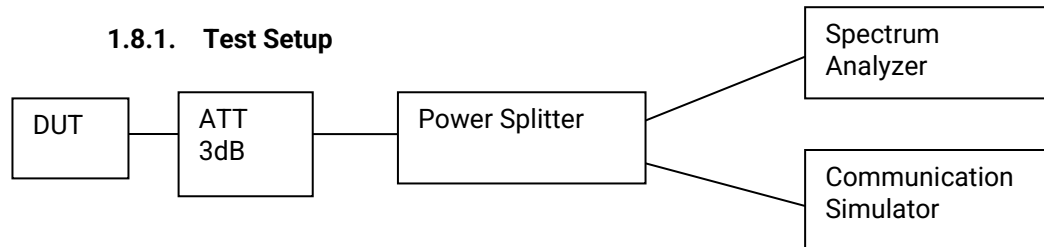


LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 17/10MHz/50/0	Low CH 23780	709 MHz	4.841	5.739
	Mid CH 23790	710 MHz	4.783	5.652
	High CH 23800	711 MHz	4.667	5.623



1.8. Occupied Bandwidth

1.8.1. Test Setup



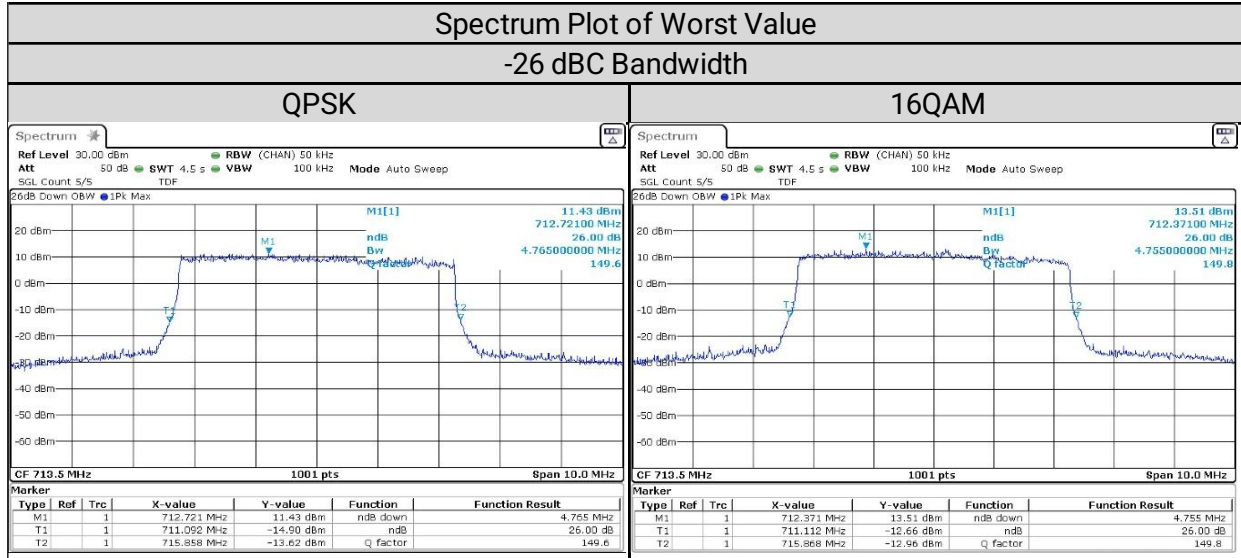
- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) For LTE measurement, set DUT to transmit maximum power & full RB size through communication simulator.
- 4) For LTE measurement, set DUT to transmit maximum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

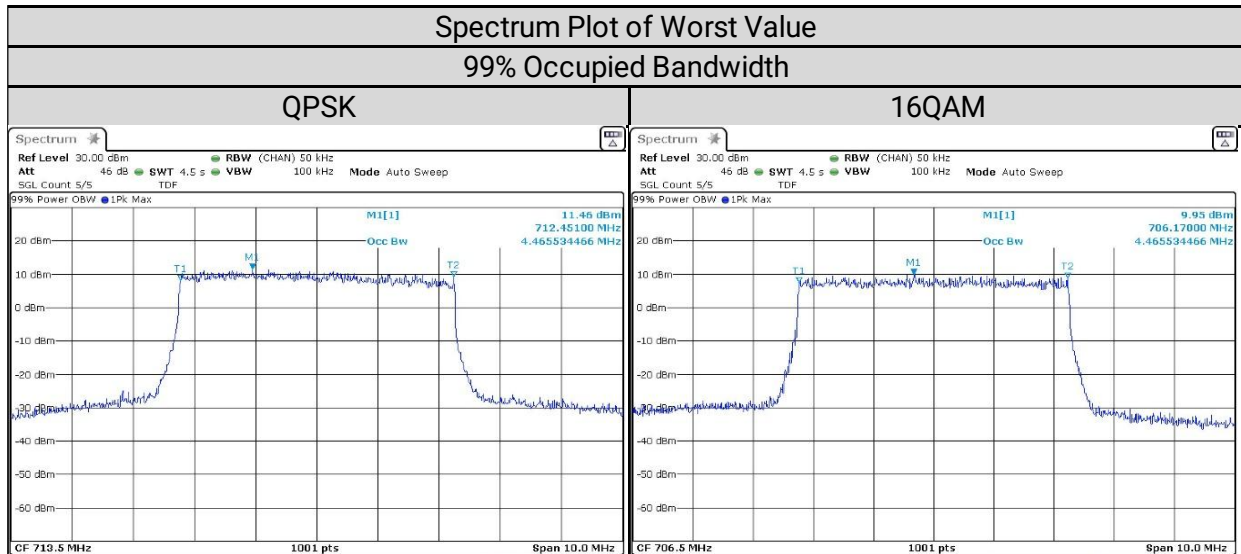
For measurement 99% of occupied bandwidth that is required by FCC 2.1046 and RSS Gen 6.7.

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

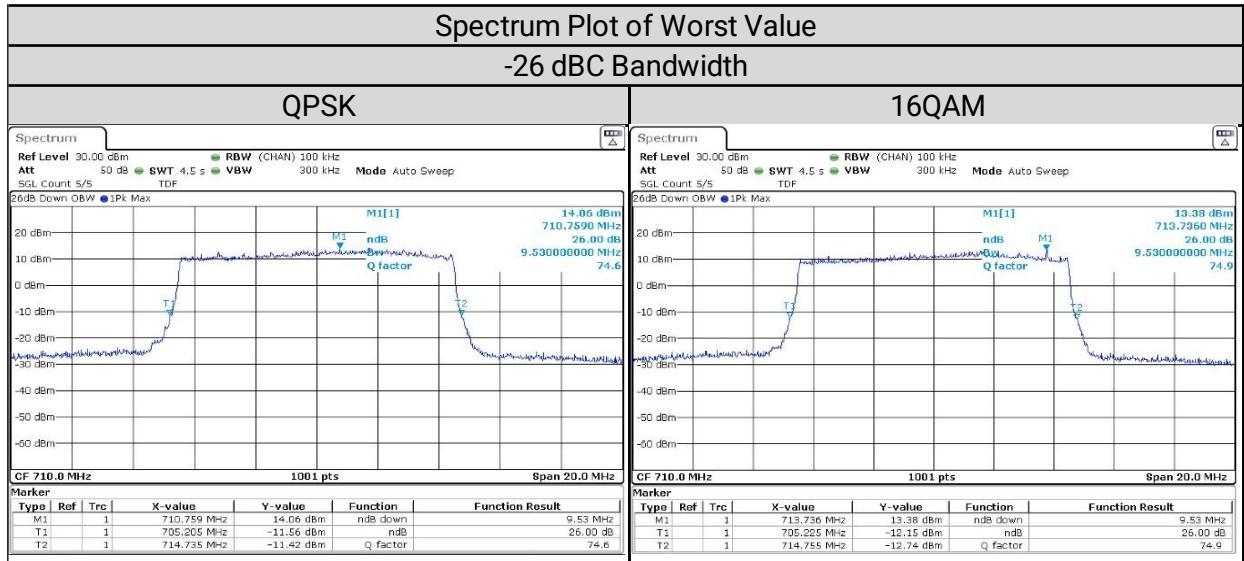
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 17/5MHz/25/0	Low CH 23755	706.5 MHz	4.466	4.745
	Mid CH 23790	710 MHz	4.735	4.71
	High CH 23825	713.5 MHz	4.765	4.755



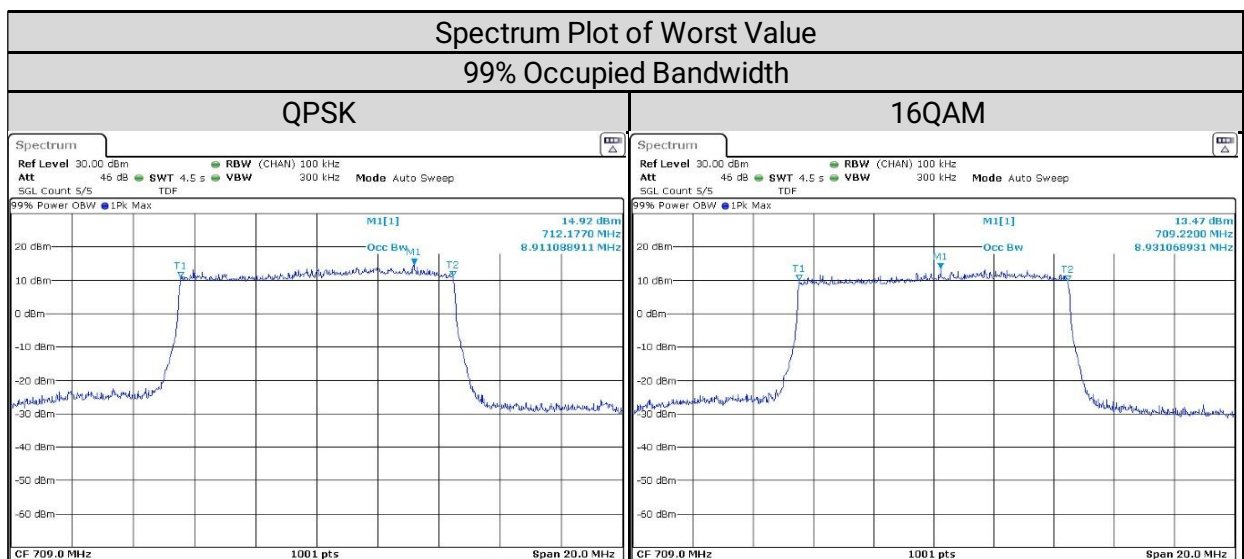
LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 17/5MHz/25/0	Low CH 23755	706.5 MHz	4.456	4.446
	Mid CH 23790	710 MHz	4.446	4.446
	High CH 23825	713.5 MHz	4.466	4.446



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	9.29	9.251
	Mid CH 23790	710 MHz	9.53	9.53
	High CH 23800	711 MHz	9.231	9.251

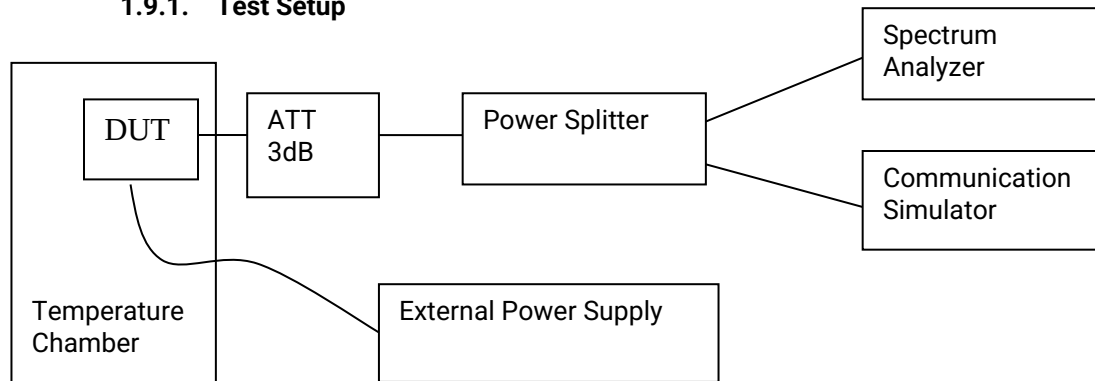


LTE Band/BW/RB Size/RB Offset	Channel Number	Tx Frequency	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 17/10MHz/50/0	Low CH 23780	709 MHz	8.911	8.931
	Mid CH 23790	710 MHz	8.871	8.891
	High CH 23800	711 MHz	8.871	8.891



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	706.500008	0.004896	713.50023	0.005344
	50	706.500002	0.007620	713.50023	0.005556
	40	706.500004	0.004827	713.50023	0.006387
	30	706.500003	0.006575	713.50023	0.004767
	20	706.500002	0.005599	713.50023	0.007058
	10	706.500006	0.007009	713.50023	0.006522
	0	706.500008	0.007997	713.50023	0.008028
	-10	706.500001	0.005518	713.50023	0.009004
	-20	706.500008	0.007708	713.50023	0.007282
	-30	706.500008	0.006486	713.50023	0.007917

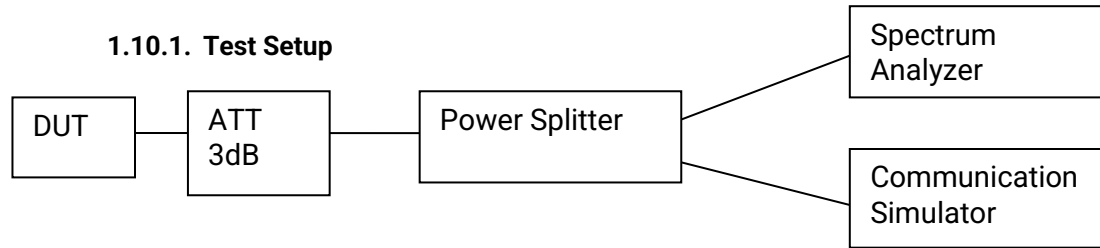
Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 5 MHz			
		Low Channel		High Channel	
		706.5MHz		713.5MHz	
LTE Band 17		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	4.3	706.500011	0.004926	713.50023	0.005489
	3.9	706.500002	0.006507	713.50023	0.006212
	3.5	706.500003	-0.004608	713.50023	0.004075

Band	Temp (Deg C)	Frequency Error VS Temperature			
		Channel Bandwidth: 10 MHz			
		Low Channel		High Channel	
		709MHz		711MHz	
LTE Band 17		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	60	709.000181	0.005081	711.000649	0.004888
	50	709.000361	0.006256	711.000611	-0.005518
	40	709.000133	-0.004121	711.000098	-0.004705
	30	709.000156	0.005122	711.000644	-0.005006
	20	709.000101	0.004495	711.000567	-0.004799
	10	709.000188	0.007011	711.000637	0.005806
	0	709.000189	0.006604	711.000871	0.006836
	-10	709.000567	0.004901	711.000567	0.004309
	-20	709.000181	0.005677	711.000692	0.006061
	-30	709.000135	0.004844	711.000647	0.005003

Band	Voltage (V)	Frequency Error VS Voltage			
		Channel Bandwidth: 10 MHz			
		Low Channel		High Channel	
		709MHz		711MHz	
LTE Band 17		Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
	4.3	709.000103	0.004588	711.000182	-0.004314
	3.7	709.000167	0.005755	711.000492	-0.005111
	3.4	709.000111	0.005328	711.000643	0.005234

1.10. Band Edge Conducted Spurious Emission

1.10.1. Test Setup



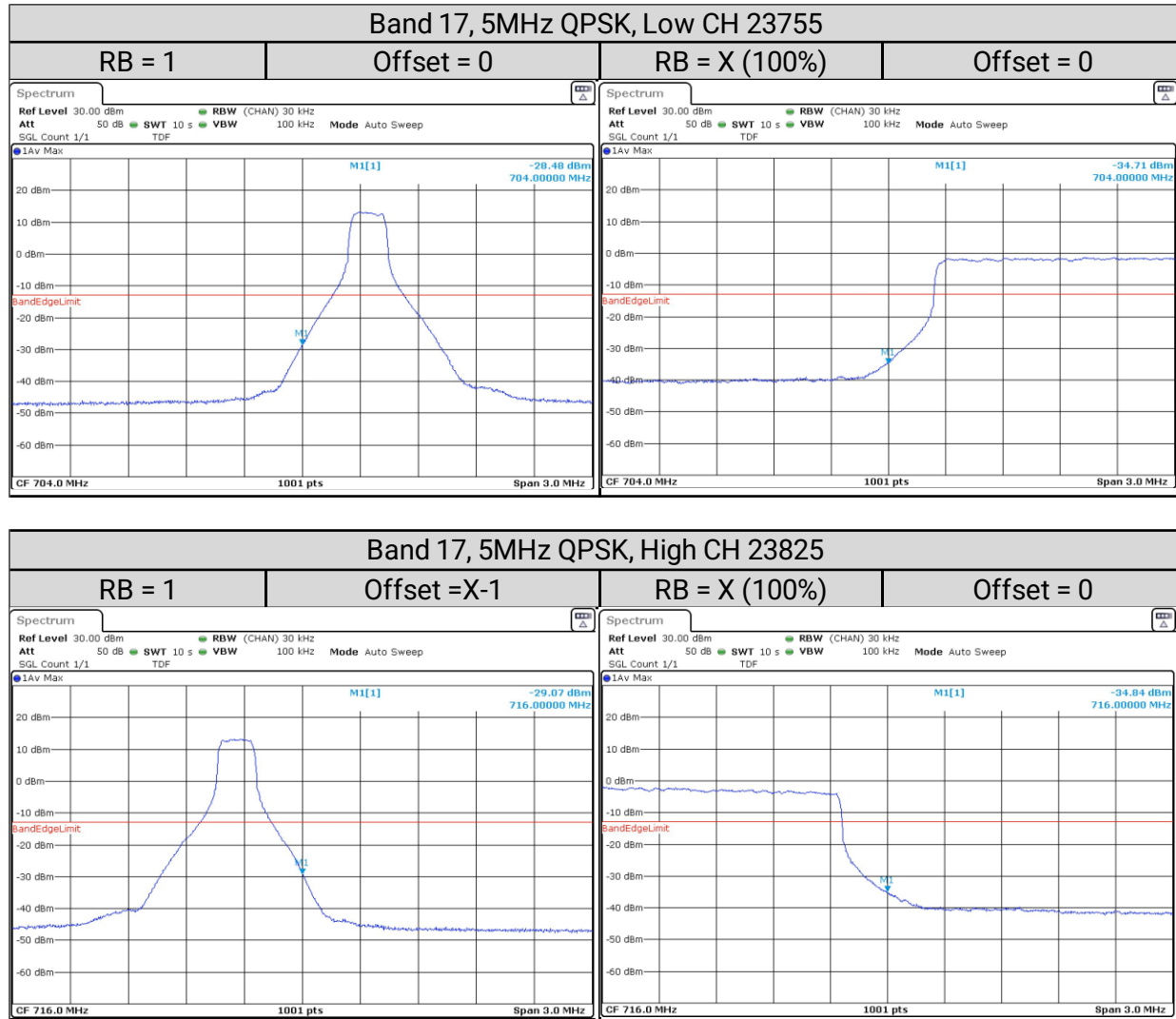
- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) Set DUT to transmit maximum power through communication simulator.
- 4) The band edges of lowest and highest channels with the highest RF powers were measured.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

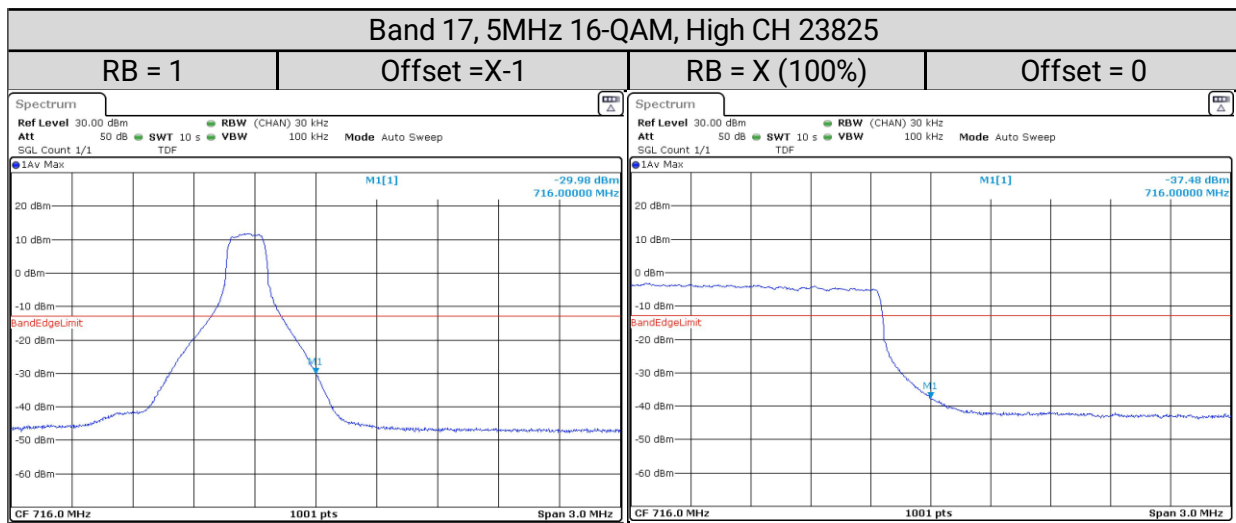
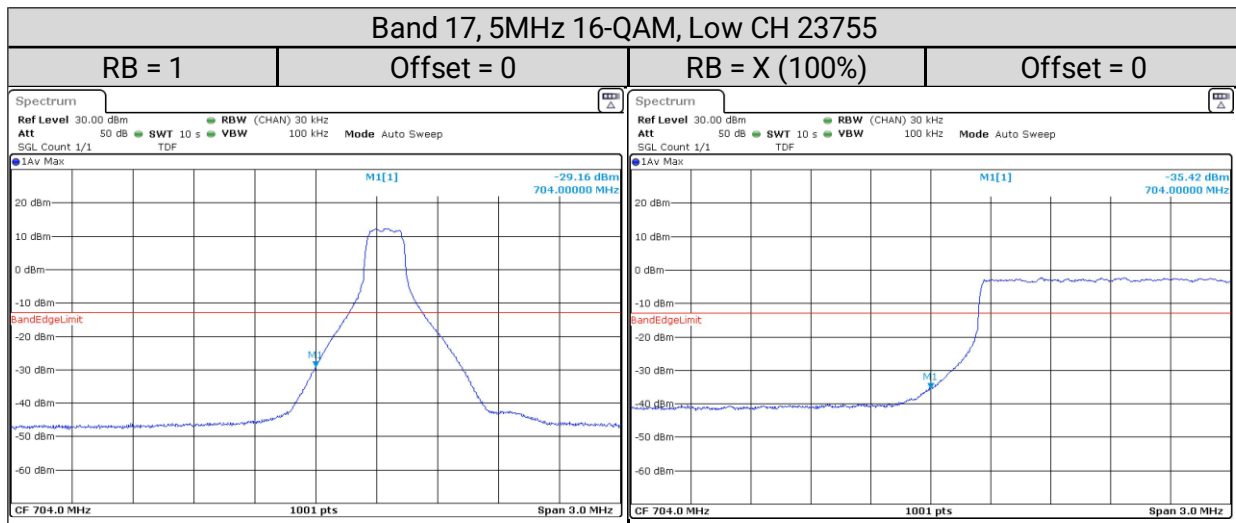
1.10.2. Test Limit

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.

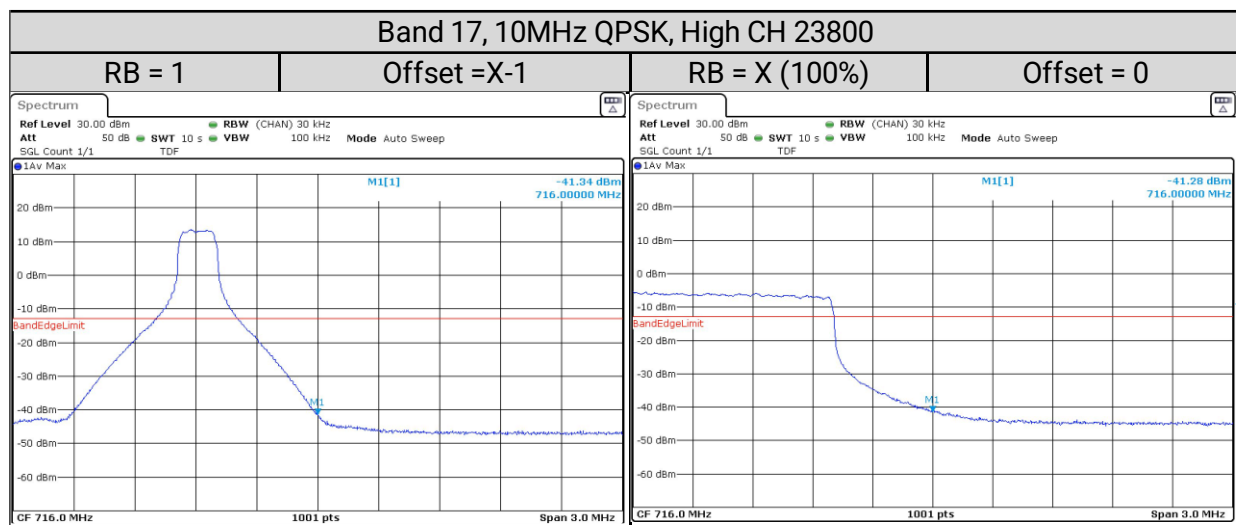
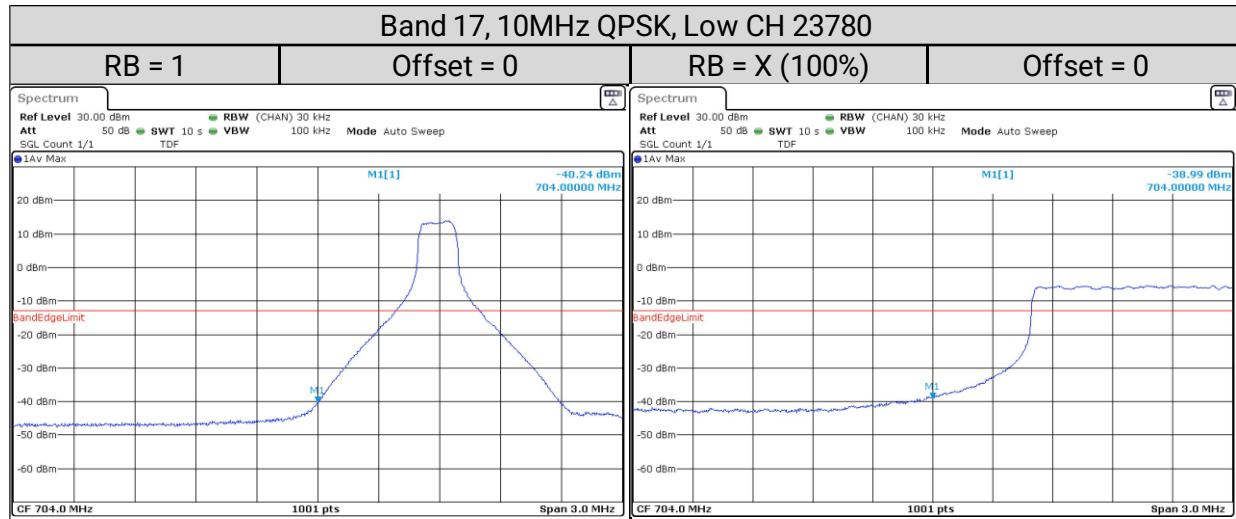
1.10.3. Band Edge Conducted Spurious Emission – LTE Band 17 (704-716MHz)

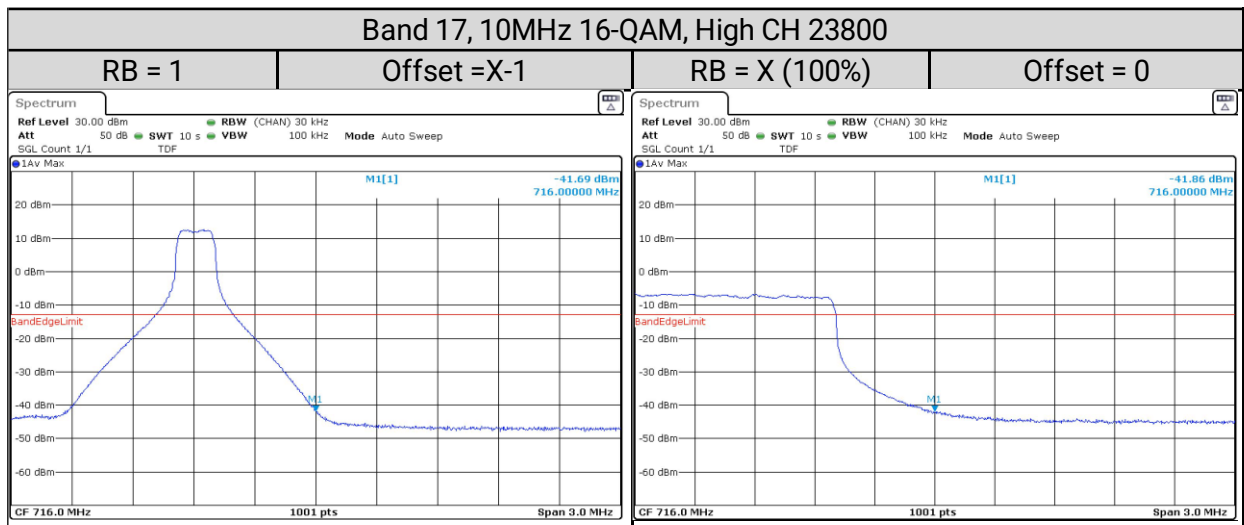
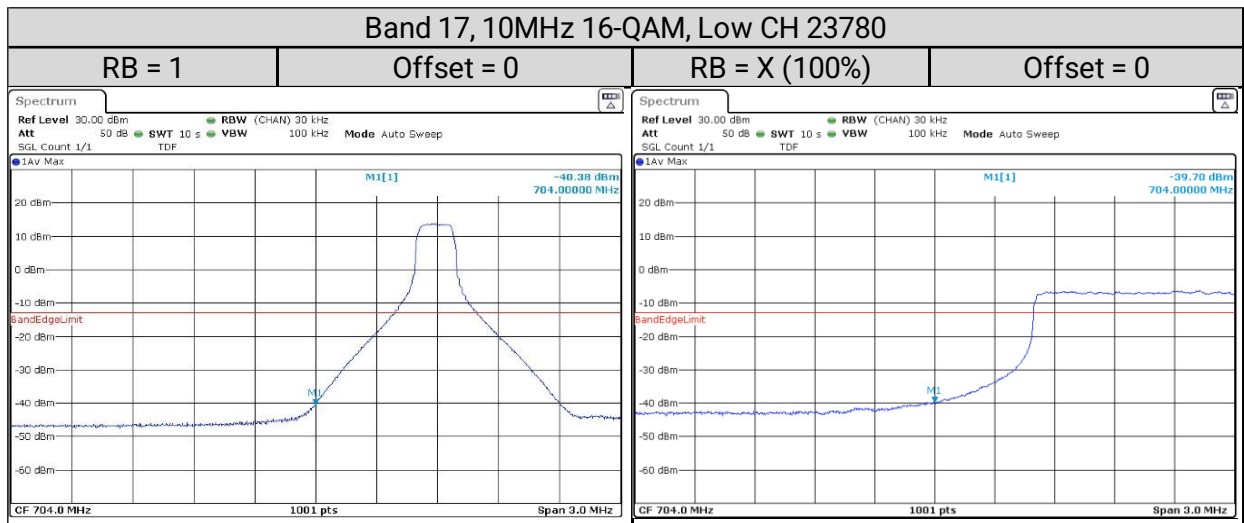
5MHz





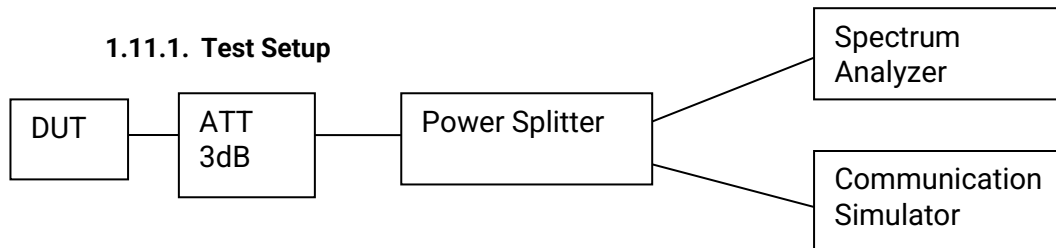
10MHz





1.11. Conducted Spurious Emission

1.11.1. Test Setup



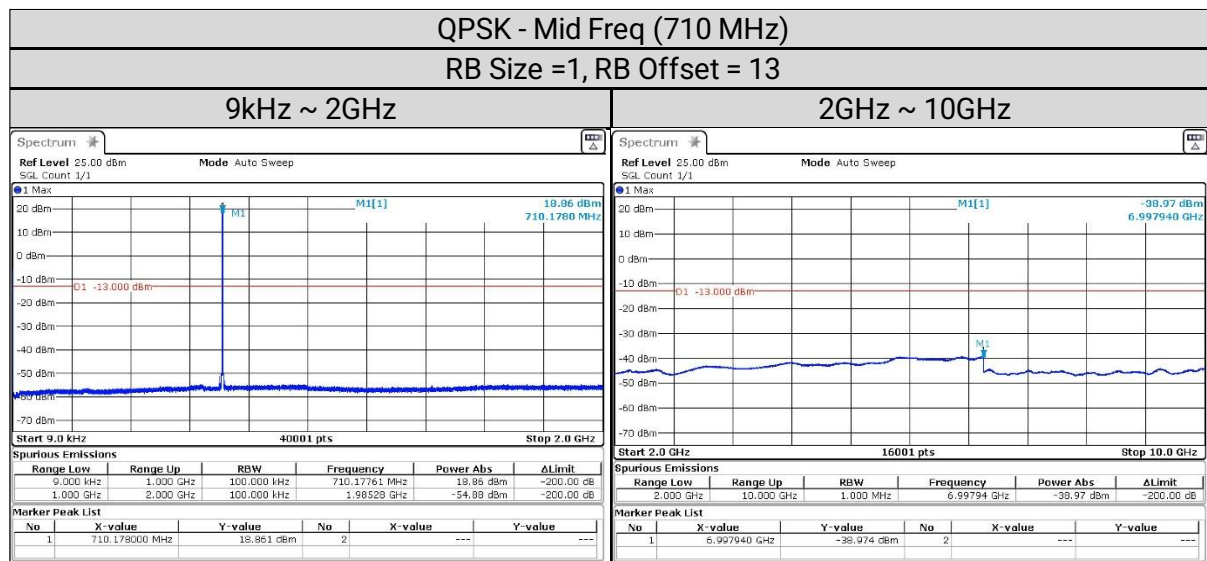
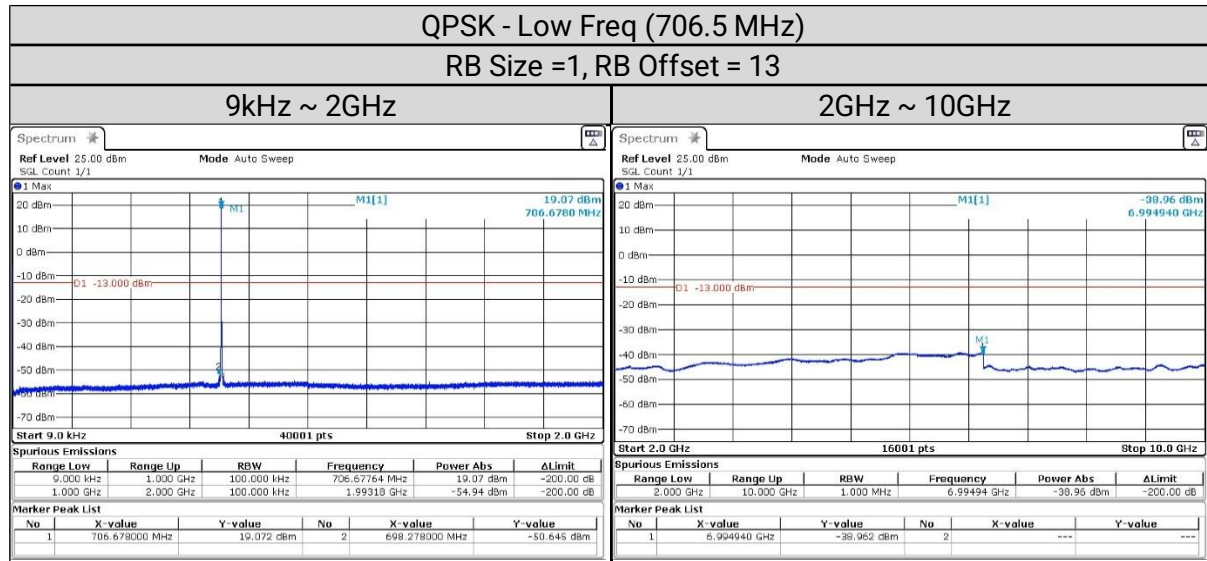
- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) Set DUT to transmit maximum power through communication simulator.
- 4) Spectrum Analyzer setting, RBW = 1 MHz, VBW = 3 MHz. Detector =average.
- 5) The spurious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

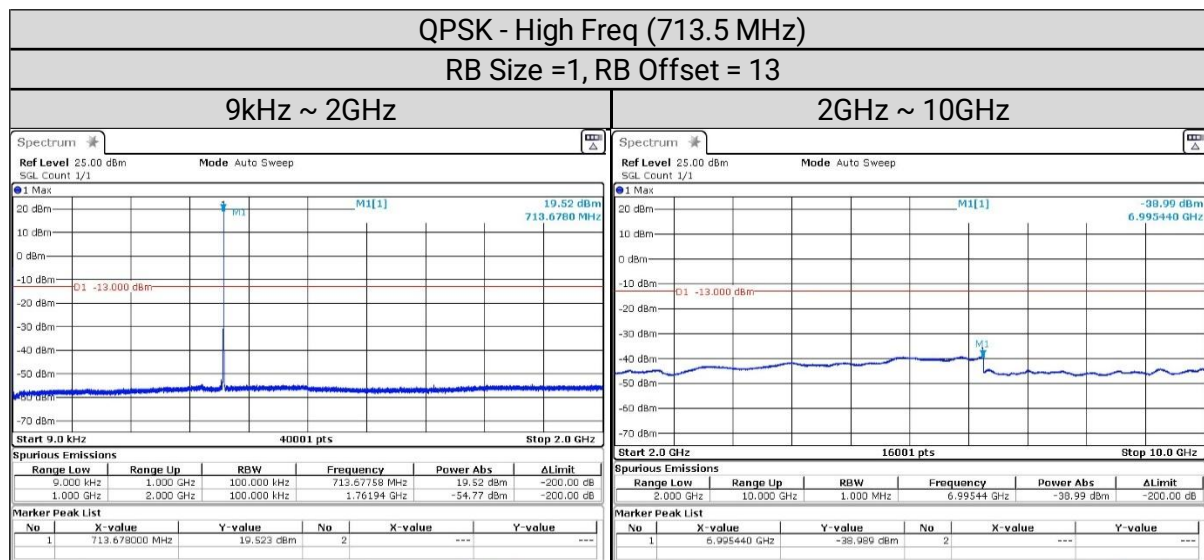
1.11.2. Test Limit

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.

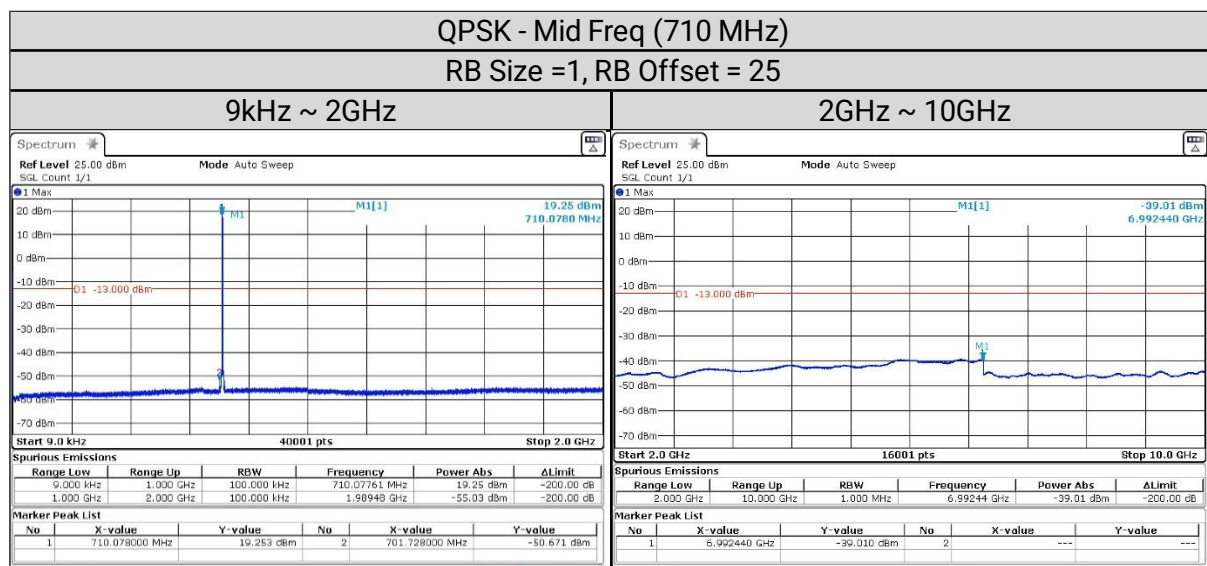
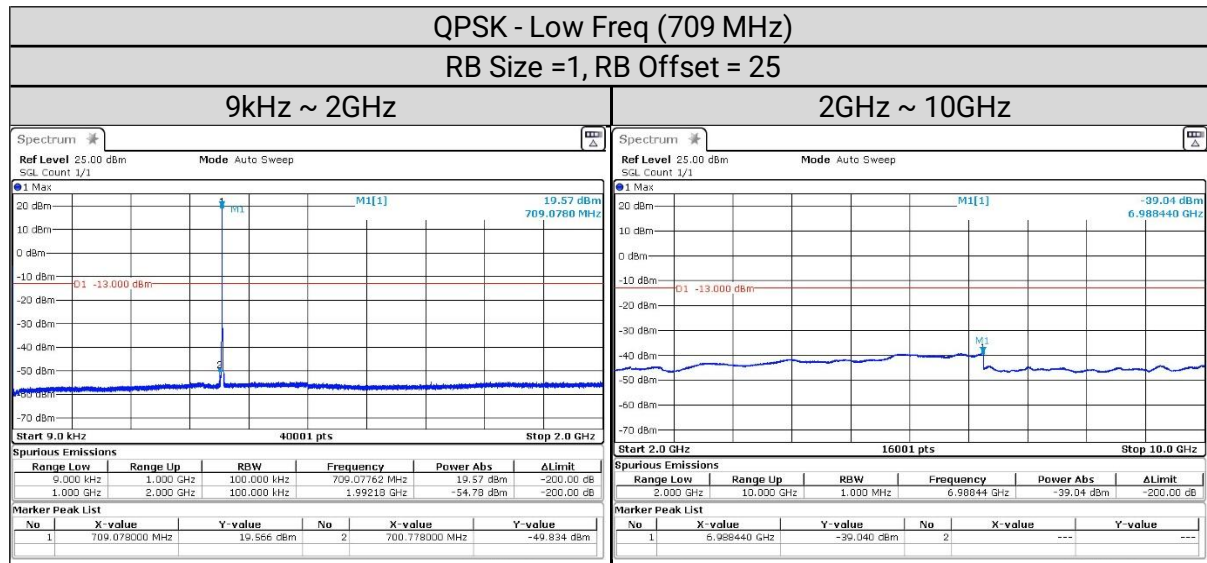
1.11.3. Conducted Spurious Emissions – LTE Band 17 (704-716MHz)

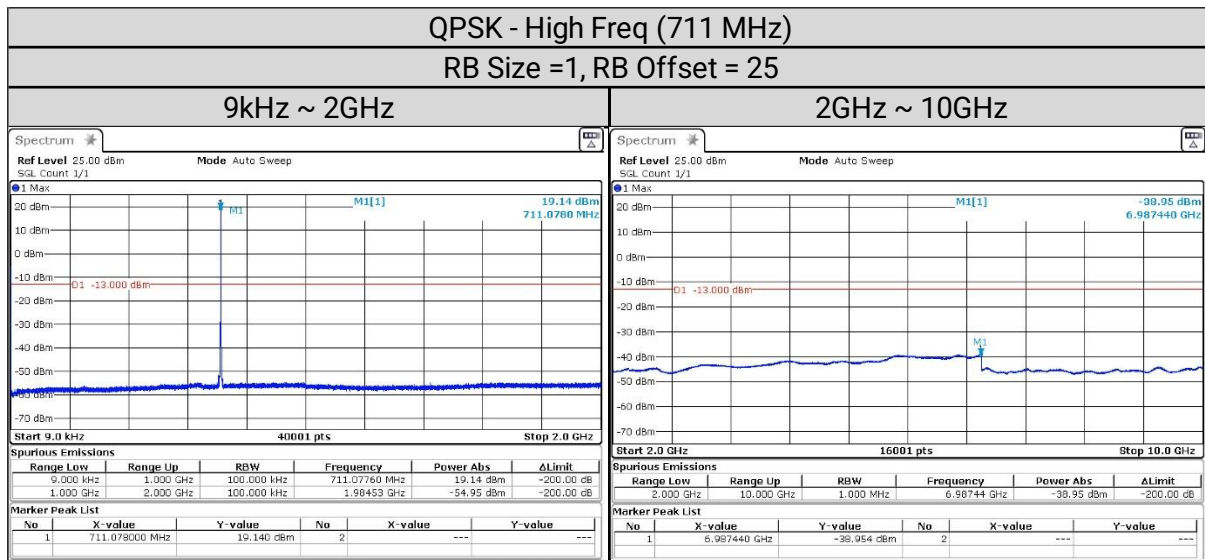
5MHz





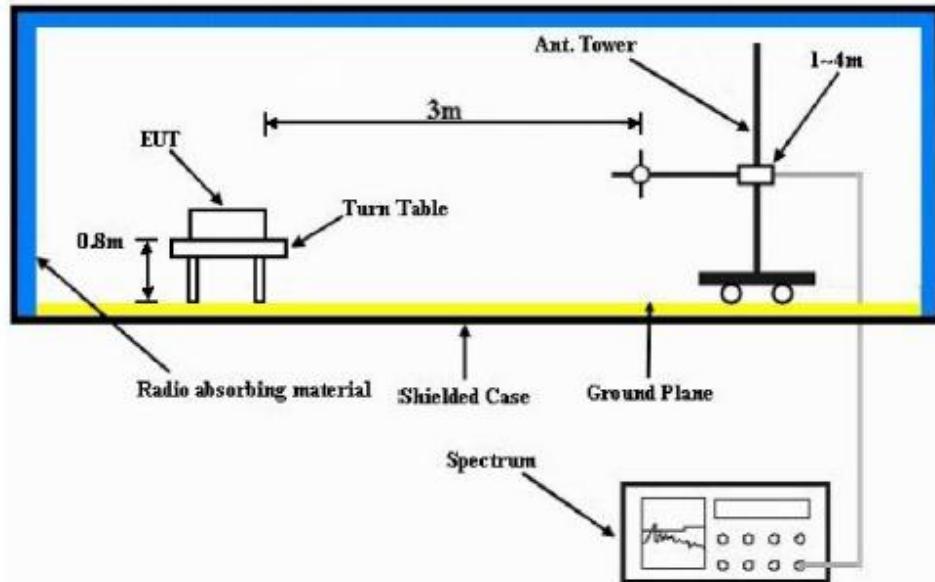
10MHz





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.

Note: Radiated Spurious Emissions were evaluated on a single worst-case channel bandwidth, selected based on the highest conducted output power. This approach is justified because full scan data across all supported bandwidths demonstrated consistent compliance and identical harmonic profiles during conducted emission testing

1.12.2. 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.

1.12.3. Radiated Spurious Emission – LTE Band 17 (704-716MHz)

SAC TX Radiated Emission : 1490N00-EMC-00035

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	LTE - QPSK RB Allocation: 1,25	Channel SP/Bandwidth (kHz) :	10000.0000
Test Frequency (MHz) :	709.0000	Power :	0.25 Watt/MAX
Plane :	X-Plane	Band :	FDD Band 17
Test Standard :	ANSI C63.26-2015; KDB 971168		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	1418.0000	-68.44 **	-13.00	55.44
Horizontal	Peak	1418.0000	-68.04 **	-13.00	55.04
Vertical	Peak	2127.0000	-63.22 **	-13.00	50.22
Horizontal	Peak	2127.0000	-64.04 **	-13.00	51.04
Vertical	Peak	2836.0000	-63.29 **	-13.00	50.29
Horizontal	Peak	2836.0000	-63.22 **	-13.00	50.22
Vertical	Peak	3545.0000	-60.85 **	-13.00	47.85
Horizontal	Peak	3545.0000	-61.22 **	-13.00	48.22
Vertical	Peak	4254.0000	-57.89 **	-13.00	44.89
Horizontal	Peak	4254.0000	-58.52 **	-13.00	45.52
Vertical	Peak	4963.0000	-57.18 **	-13.00	44.18
Horizontal	Peak	4963.0000	-58.64 **	-13.00	45.64
Vertical	Peak	5672.0000	-57.47 **	-13.00	44.47
Horizontal	Peak	5672.0000	-58.08 **	-13.00	45.08
Vertical	Peak	6381.0000	-55.21 **	-13.00	42.21
Horizontal	Peak	6381.0000	-56.10 **	-13.00	43.10
Vertical	Peak	7090.0000	-53.53 **	-13.00	40.53
Horizontal	Peak	7090.0000	-55.22 **	-13.00	42.22

Temperature (°C) :	23.5	Humidity (%) :	68.8
Test Performed by :	Qawiman & Rezza	Test Date :	Thu, 12 Feb, 2026
System MU :	4.03 dB (30MHz-1000MHz); 4.03 dB (1000MHz-18000MHz); 4.03 dB (18000MHz-40000MHz)		

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

Remarks:

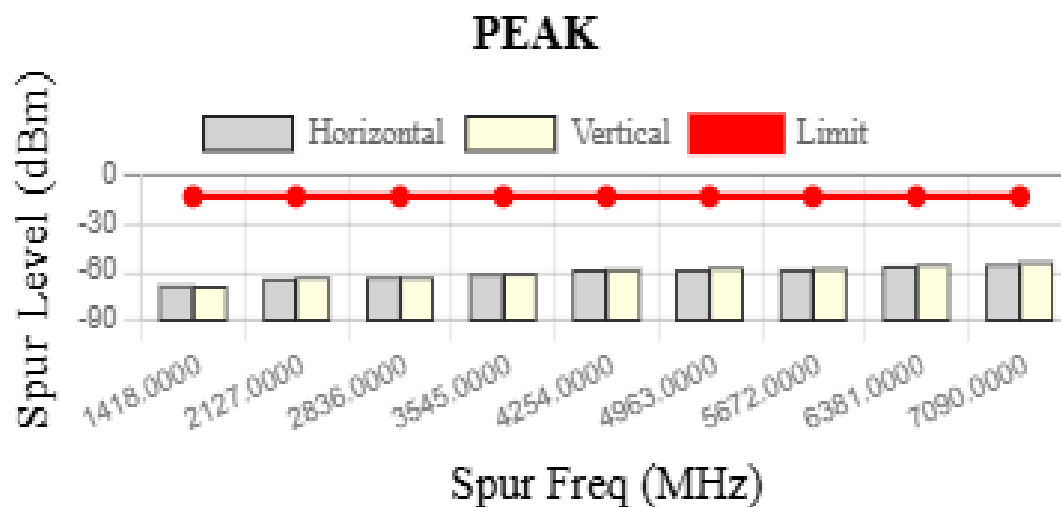
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

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

NOTE :

1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.

2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1490N00-EMC-00035

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	LTE - QPSK RB Allocation: 1,25	Channel SP/Bandwidth (kHz) :	10000.0000
Test Frequency (MHz) :	710.0000	Power :	0.25 Watt/MAX
Plane :	X-Plane	Band :	FDD Band 17
Test Standard :	ANSI C63.26-2015; KDB 971168		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	1420.0000	-67.14 **	-13.00	54.14
Horizontal	Peak	1420.0000	-67.73 **	-13.00	54.73
Vertical	Peak	2130.0000	-62.92 **	-13.00	49.92
Horizontal	Peak	2130.0000	-62.63 **	-13.00	49.63
Vertical	Peak	2840.0000	-62.74 **	-13.00	49.74
Horizontal	Peak	2840.0000	-62.32 **	-13.00	49.32
Vertical	Peak	3550.0000	-60.77 **	-13.00	47.77
Horizontal	Peak	3550.0000	-61.44 **	-13.00	48.44
Vertical	Peak	4260.0000	-59.09 **	-13.00	46.09
Horizontal	Peak	4260.0000	-57.41 **	-13.00	44.41
Vertical	Peak	4970.0000	-58.71 **	-13.00	45.71
Horizontal	Peak	4970.0000	-58.74 **	-13.00	45.74
Vertical	Peak	5680.0000	-57.85 **	-13.00	44.85
Horizontal	Peak	5680.0000	-58.82 **	-13.00	45.82
Vertical	Peak	6390.0000	-55.89 **	-13.00	42.89
Horizontal	Peak	6390.0000	-55.91 **	-13.00	42.91
Vertical	Peak	7100.0000	-53.31 **	-13.00	40.31
Horizontal	Peak	7100.0000	-55.05 **	-13.00	42.05

Temperature (°C) :	23.5	Humidity (%) :	68.8
Test Performed by :	Qawiman & Rezza	Test Date :	Thu, 12 Feb, 2026
System MU :	4.03 dB (30MHz-1000MHz); 4.03 dB (1000MHz-18000MHz); 4.03 dB (18000MHz-40000MHz)		

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

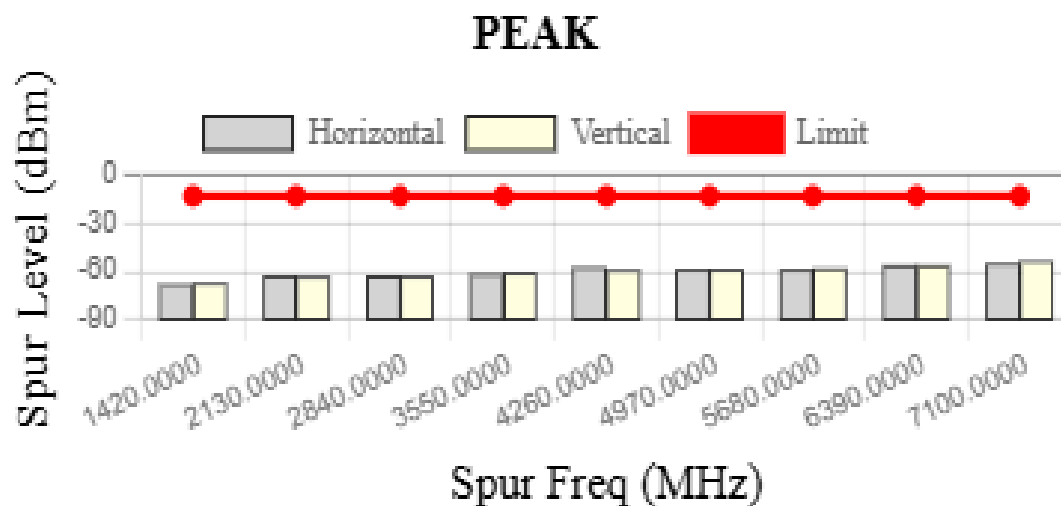
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1490N00-EMC-00035

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	LTE - QPSK RB Allocation: 1,25	Channel SP/Bandwidth (kHz) :	10000.0000
Test Frequency (MHz) :	711.0000	Power :	0.25 Watt/MAX
Plane :	X-Plane	Band :	FDD Band 17
Test Standard :	ANSI C63.26-2015; KDB 971168		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	1422.0000	-66.88 **	-13.00	53.88
Horizontal	Peak	1422.0000	-67.53 **	-13.00	54.53
Vertical	Peak	2133.0000	-63.78 **	-13.00	50.78
Horizontal	Peak	2133.0000	-63.36 **	-13.00	50.36
Vertical	Peak	2844.0000	-61.39 **	-13.00	48.39
Horizontal	Peak	2844.0000	-62.11 **	-13.00	49.11
Vertical	Peak	3555.0000	-60.51 **	-13.00	47.51
Horizontal	Peak	3555.0000	-61.67 **	-13.00	48.67
Vertical	Peak	4266.0000	-58.96 **	-13.00	45.96
Horizontal	Peak	4266.0000	-58.47 **	-13.00	45.47
Vertical	Peak	4977.0000	-57.67 **	-13.00	44.67
Horizontal	Peak	4977.0000	-57.74 **	-13.00	44.74
Vertical	Peak	5688.0000	-58.45 **	-13.00	45.45
Horizontal	Peak	5688.0000	-58.62 **	-13.00	45.62
Vertical	Peak	6399.0000	-54.91 **	-13.00	41.91
Horizontal	Peak	6399.0000	-55.55 **	-13.00	42.55
Vertical	Peak	7110.0000	-54.58 **	-13.00	41.58
Horizontal	Peak	7110.0000	-55.30 **	-13.00	42.30

Temperature (°C) :	23.5	Humidity (%) :	68.8
Test Performed by :	Nazrin & Fuad	Test Date :	Thu, 12 Feb, 2026
System MU :	4.03 dB (30MHz-1000MHz); 4.03 dB (1000MHz-18000MHz); 4.03 dB (18000MHz-40000MHz)		

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

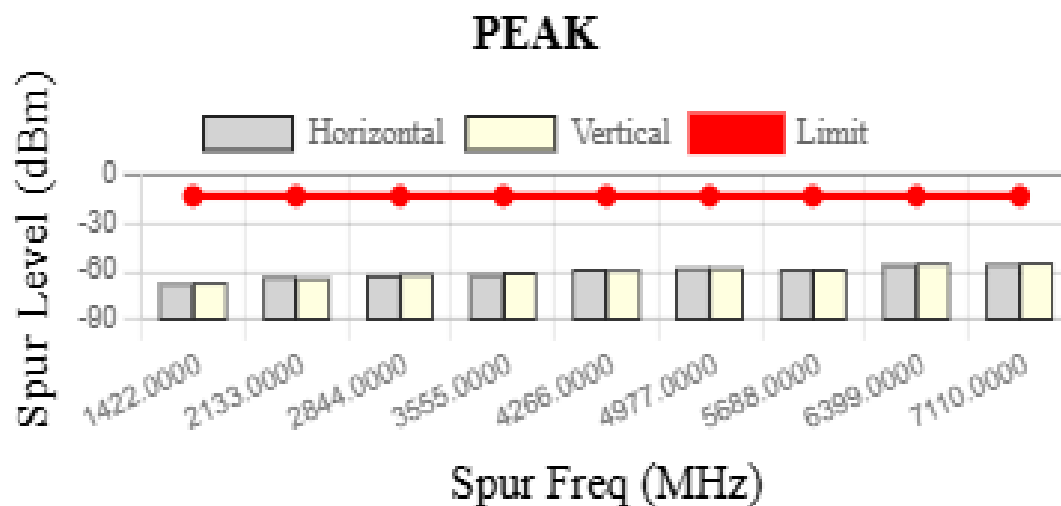
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1490N00-EMC-00035

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	LTE - QPSK RB Allocation: 1,25	Channel SP/Bandwidth (kHz) :	10000.0000
Test Frequency (MHz) :	709.0000	Power :	0.25 Watt/MAX
Plane :	Y-Plane	Band :	FDD Band 17
Test Standard :	ANSI C63.26-2015; KDB 971168		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	1418.0000	-68.20 **	-13.00	55.20
Horizontal	Peak	1418.0000	-66.76 **	-13.00	53.76
Vertical	Peak	2127.0000	-64.06 **	-13.00	51.06
Horizontal	Peak	2127.0000	-64.65 **	-13.00	51.65
Vertical	Peak	2836.0000	-62.60 **	-13.00	49.60
Horizontal	Peak	2836.0000	-63.12 **	-13.00	50.12
Vertical	Peak	3545.0000	-60.67 **	-13.00	47.67
Horizontal	Peak	3545.0000	-60.95 **	-13.00	47.95
Vertical	Peak	4254.0000	-58.99 **	-13.00	45.99
Horizontal	Peak	4254.0000	-58.74 **	-13.00	45.74
Vertical	Peak	4963.0000	-58.10 **	-13.00	45.10
Horizontal	Peak	4963.0000	-57.70 **	-13.00	44.70
Vertical	Peak	5672.0000	-58.03 **	-13.00	45.03
Horizontal	Peak	5672.0000	-57.63 **	-13.00	44.63
Vertical	Peak	6381.0000	-56.09 **	-13.00	43.09
Horizontal	Peak	6381.0000	-55.13 **	-13.00	42.13
Vertical	Peak	7090.0000	-55.37 **	-13.00	42.37
Horizontal	Peak	7090.0000	-54.26 **	-13.00	41.26

Temperature (°C) :	23.5	Humidity (%) :	68.8
Test Performed by :	Qawiman & Rezza	Test Date :	Thu, 12 Feb, 2026
System MU :	4.03 dB (30MHz-1000MHz); 4.03 dB (1000MHz-18000MHz); 4.03 dB (18000MHz-40000MHz)		

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

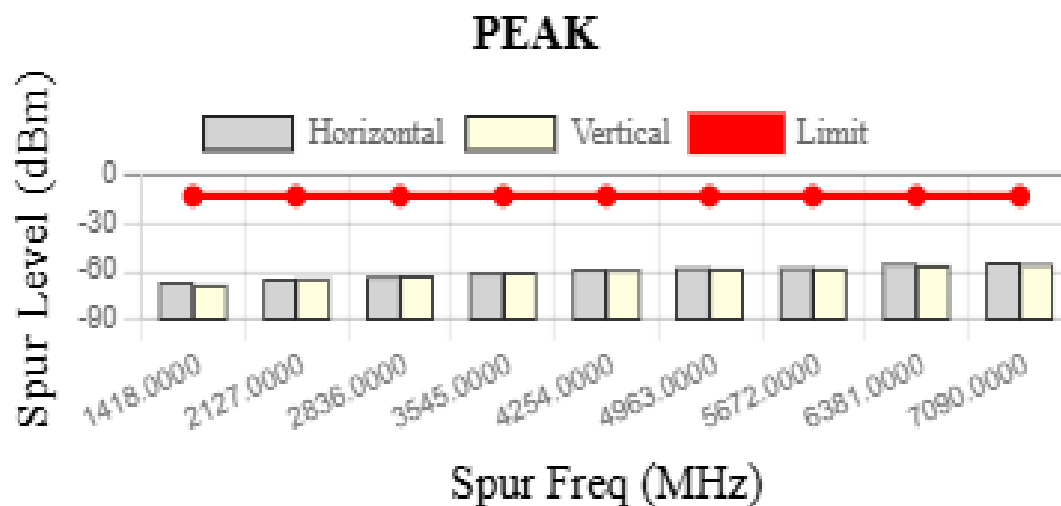
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1490N00-EMC-00035

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	LTE - QPSK RB Allocation: 1,25	Channel SP/Bandwidth (kHz) :	10000.0000
Test Frequency (MHz) :	710.0000	Power :	0.25 Watt/MAX
Plane :	Y-Plane	Band :	FDD Band 17
Test Standard :	ANSI C63.26-2015; KDB 971168		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	1420.0000	-67.26 **	-13.00	54.26
Horizontal	Peak	1420.0000	-65.93 **	-13.00	52.93
Vertical	Peak	2130.0000	-64.61 **	-13.00	51.61
Horizontal	Peak	2130.0000	-64.11 **	-13.00	51.11
Vertical	Peak	2840.0000	-62.35 **	-13.00	49.35
Horizontal	Peak	2840.0000	-62.08 **	-13.00	49.08
Vertical	Peak	3550.0000	-61.40 **	-13.00	48.40
Horizontal	Peak	3550.0000	-61.25 **	-13.00	48.25
Vertical	Peak	4260.0000	-58.59 **	-13.00	45.59
Horizontal	Peak	4260.0000	-59.52 **	-13.00	46.52
Vertical	Peak	4970.0000	-58.17 **	-13.00	45.17
Horizontal	Peak	4970.0000	-58.14 **	-13.00	45.14
Vertical	Peak	5680.0000	-58.26 **	-13.00	45.26
Horizontal	Peak	5680.0000	-57.71 **	-13.00	44.71
Vertical	Peak	6390.0000	-55.59 **	-13.00	42.59
Horizontal	Peak	6390.0000	-55.71 **	-13.00	42.71
Vertical	Peak	7100.0000	-54.34 **	-13.00	41.34
Horizontal	Peak	7100.0000	-54.93 **	-13.00	41.93

Temperature (°C) :	23.5	Humidity (%) :	68.8
Test Performed by :	Qawiman & Rezza	Test Date :	Thu, 12 Feb, 2026
System MU :	4.03 dB (30MHz-1000MHz); 4.03 dB (1000MHz-18000MHz); 4.03 dB (18000MHz-40000MHz)		

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

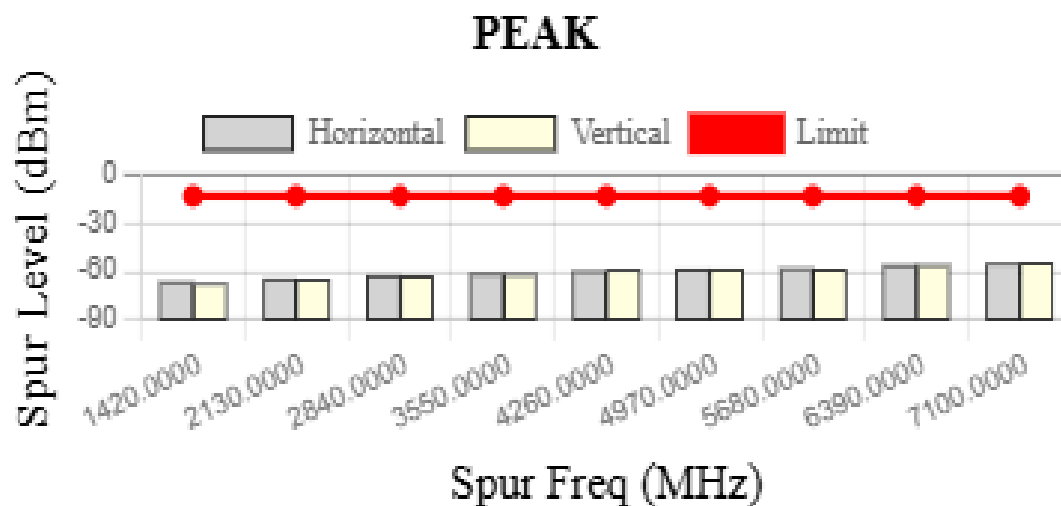
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1490N00-EMC-00035

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	LTE - QPSK RB Allocation: 1,25	Channel SP/Bandwidth (kHz) :	10000.0000
Test Frequency (MHz) :	711.0000	Power :	0.25 Watt/MAX
Plane :	Y-Plane	Band :	FDD Band 17
Test Standard :	ANSI C63.26-2015; KDB 971168		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	1422.0000	-66.87 **	-13.00	53.87
Horizontal	Peak	1422.0000	-67.26 **	-13.00	54.26
Vertical	Peak	2133.0000	-62.85 **	-13.00	49.85
Horizontal	Peak	2133.0000	-63.32 **	-13.00	50.32
Vertical	Peak	2844.0000	-62.65 **	-13.00	49.65
Horizontal	Peak	2844.0000	-62.33 **	-13.00	49.33
Vertical	Peak	3555.0000	-60.24 **	-13.00	47.24
Horizontal	Peak	3555.0000	-61.20 **	-13.00	48.20
Vertical	Peak	4266.0000	-56.98 **	-13.00	43.98
Horizontal	Peak	4266.0000	-58.32 **	-13.00	45.32
Vertical	Peak	4977.0000	-58.34 **	-13.00	45.34
Horizontal	Peak	4977.0000	-58.14 **	-13.00	45.14
Vertical	Peak	5688.0000	-57.54 **	-13.00	44.54
Horizontal	Peak	5688.0000	-57.47 **	-13.00	44.47
Vertical	Peak	6399.0000	-55.86 **	-13.00	42.86
Horizontal	Peak	6399.0000	-54.76 **	-13.00	41.76
Vertical	Peak	7110.0000	-54.07 **	-13.00	41.07
Horizontal	Peak	7110.0000	-54.63 **	-13.00	41.63

Temperature (°C) :	23.5	Humidity (%) :	68.8
Test Performed by :	Nazrin & Fuad	Test Date :	Thu, 12 Feb, 2026
System MU :	4.03 dB (30MHz-1000MHz); 4.03 dB (1000MHz-18000MHz); 4.03 dB (18000MHz-40000MHz)		

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

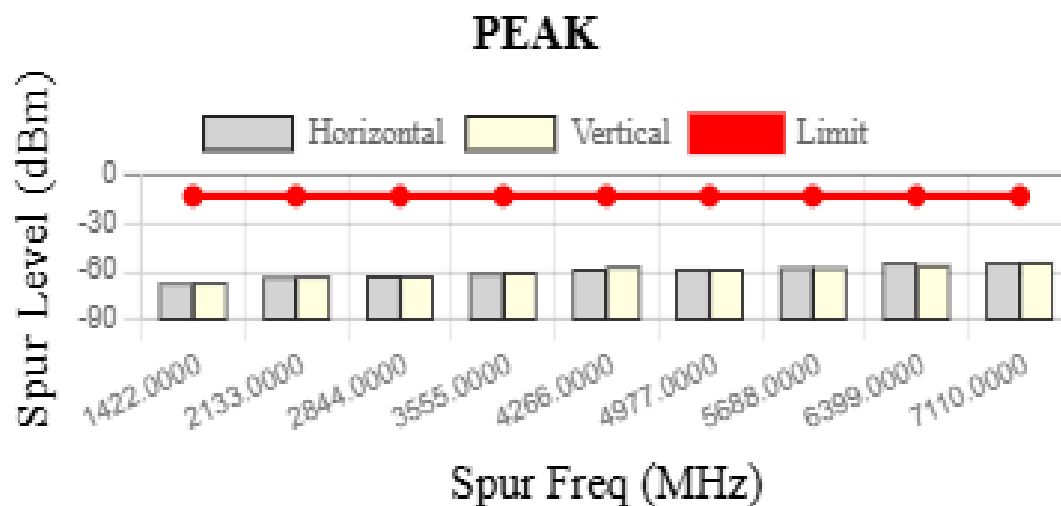
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1490N00-EMC-00035

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	LTE - QPSK RB Allocation: 1,25	Channel SP/Bandwidth (kHz) :	10000.0000
Test Frequency (MHz) :	709.0000	Power :	0.25 Watt/MAX
Plane :	Z-Plane	Band :	FDD Band 17
Test Standard :	ANSI C63.26-2015; KDB 971168		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	1418.0000	-68.14 **	-13.00	55.14
Horizontal	Peak	1418.0000	-67.78 **	-13.00	54.78
Vertical	Peak	2127.0000	-62.76 **	-13.00	49.76
Horizontal	Peak	2127.0000	-60.47 **	-13.00	47.47
Vertical	Peak	2836.0000	-63.85 **	-13.00	50.85
Horizontal	Peak	2836.0000	-62.50 **	-13.00	49.50
Vertical	Peak	3545.0000	-60.31 **	-13.00	47.31
Horizontal	Peak	3545.0000	-60.75 **	-13.00	47.75
Vertical	Peak	4254.0000	-58.32 **	-13.00	45.32
Horizontal	Peak	4254.0000	-57.57 **	-13.00	44.57
Vertical	Peak	4963.0000	-58.49 **	-13.00	45.49
Horizontal	Peak	4963.0000	-58.95 **	-13.00	45.95
Vertical	Peak	5672.0000	-56.69 **	-13.00	43.69
Horizontal	Peak	5672.0000	-58.20 **	-13.00	45.20
Vertical	Peak	6381.0000	-55.63 **	-13.00	42.63
Horizontal	Peak	6381.0000	-55.61 **	-13.00	42.61
Vertical	Peak	7090.0000	-54.69 **	-13.00	41.69
Horizontal	Peak	7090.0000	-53.58 **	-13.00	40.58

Temperature (°C) :	23.5	Humidity (%) :	68.8
Test Performed by :	Qawiman & Rezza	Test Date :	Thu, 12 Feb, 2026
System MU :	4.03 dB (30MHz-1000MHz); 4.03 dB (1000MHz-18000MHz); 4.03 dB (18000MHz-40000MHz)		

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

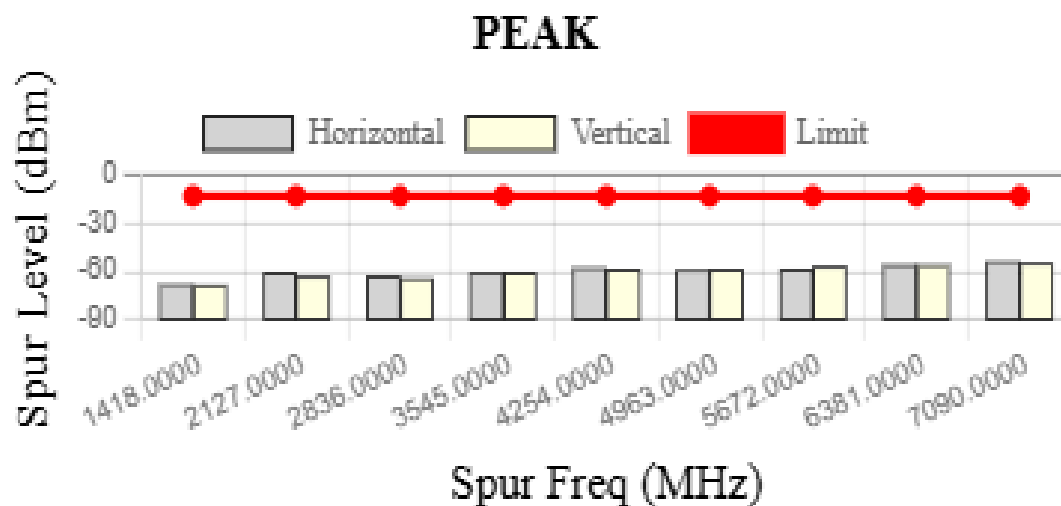
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1490N00-EMC-00035

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	LTE - QPSK RB Allocation: 1,25	Channel SP/Bandwidth (kHz) :	10000.0000
Test Frequency (MHz) :	710.0000	Power :	0.25 Watt/MAX
Plane :	Z-Plane	Band :	FDD Band 17
Test Standard :	ANSI C63.26-2015; KDB 971168		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	1420.0000	-67.70 **	-13.00	54.70
Horizontal	Peak	1420.0000	-67.73 **	-13.00	54.73
Vertical	Peak	2130.0000	-63.14 **	-13.00	50.14
Horizontal	Peak	2130.0000	-62.56 **	-13.00	49.56
Vertical	Peak	2840.0000	-62.92 **	-13.00	49.92
Horizontal	Peak	2840.0000	-62.14 **	-13.00	49.14
Vertical	Peak	3550.0000	-60.93 **	-13.00	47.93
Horizontal	Peak	3550.0000	-61.16 **	-13.00	48.16
Vertical	Peak	4260.0000	-59.11 **	-13.00	46.11
Horizontal	Peak	4260.0000	-58.57 **	-13.00	45.57
Vertical	Peak	4970.0000	-58.01 **	-13.00	45.01
Horizontal	Peak	4970.0000	-57.96 **	-13.00	44.96
Vertical	Peak	5680.0000	-57.24 **	-13.00	44.24
Horizontal	Peak	5680.0000	-58.67 **	-13.00	45.67
Vertical	Peak	6390.0000	-56.56 **	-13.00	43.56
Horizontal	Peak	6390.0000	-56.18 **	-13.00	43.18
Vertical	Peak	7100.0000	-54.99 **	-13.00	41.99
Horizontal	Peak	7100.0000	-54.60 **	-13.00	41.60

Temperature (°C) :	23.5	Humidity (%) :	68.8
Test Performed by :	Qawiman & Rezza	Test Date :	Thu, 12 Feb, 2026
System MU :	4.03 dB (30MHz-1000MHz); 4.03 dB (1000MHz-18000MHz); 4.03 dB (18000MHz-40000MHz)		

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

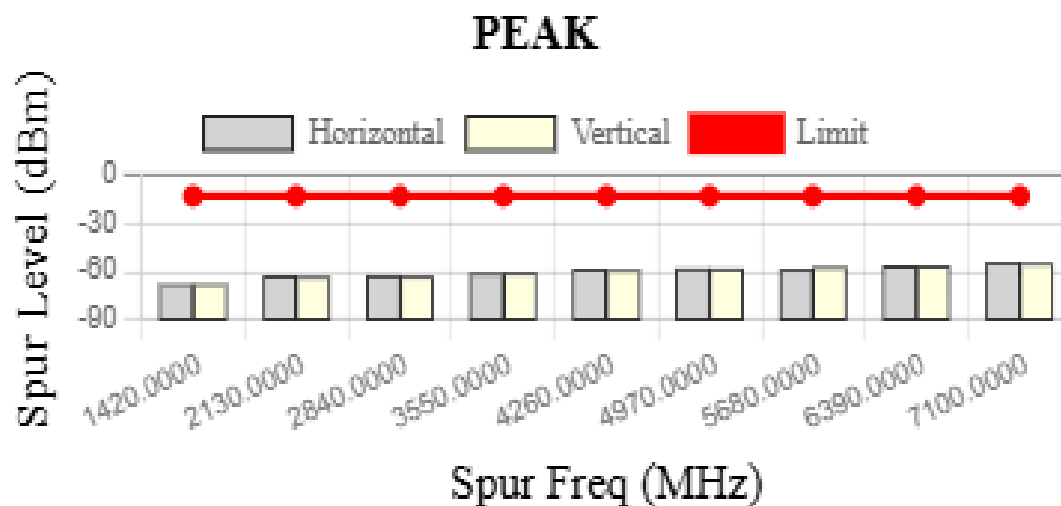
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1490N00-EMC-00035

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	LTE - QPSK RB Allocation: 1,25	Channel SP/Bandwidth (kHz) :	10000.0000
Test Frequency (MHz) :	711.0000	Power :	0.25 Watt/MAX
Plane :	Z-Plane	Band :	FDD Band 17
Test Standard :	ANSI C63.26-2015; KDB 971168		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	1422.0000	-65.56 **	-13.00	52.56
Horizontal	Peak	1422.0000	-67.84 **	-13.00	54.84
Vertical	Peak	2133.0000	-63.59 **	-13.00	50.59
Horizontal	Peak	2133.0000	-62.74 **	-13.00	49.74
Vertical	Peak	2844.0000	-62.95 **	-13.00	49.95
Horizontal	Peak	2844.0000	-62.28 **	-13.00	49.28
Vertical	Peak	3555.0000	-61.65 **	-13.00	48.65
Horizontal	Peak	3555.0000	-61.33 **	-13.00	48.33
Vertical	Peak	4266.0000	-58.99 **	-13.00	45.99
Horizontal	Peak	4266.0000	-57.97 **	-13.00	44.97
Vertical	Peak	4977.0000	-57.90 **	-13.00	44.90
Horizontal	Peak	4977.0000	-58.23 **	-13.00	45.23
Vertical	Peak	5688.0000	-58.07 **	-13.00	45.07
Horizontal	Peak	5688.0000	-57.54 **	-13.00	44.54
Vertical	Peak	6399.0000	-54.95 **	-13.00	41.95
Horizontal	Peak	6399.0000	-55.35 **	-13.00	42.35
Vertical	Peak	7110.0000	-54.12 **	-13.00	41.12
Horizontal	Peak	7110.0000	-54.79 **	-13.00	41.79

Temperature (°C) :	23.5	Humidity (%) :	68.8
Test Performed by :	Nazrin & Fuad	Test Date :	Thu, 12 Feb, 2026
System MU :	4.03 dB (30MHz-1000MHz); 4.03 dB (1000MHz-18000MHz); 4.03 dB (18000MHz-40000MHz)		

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

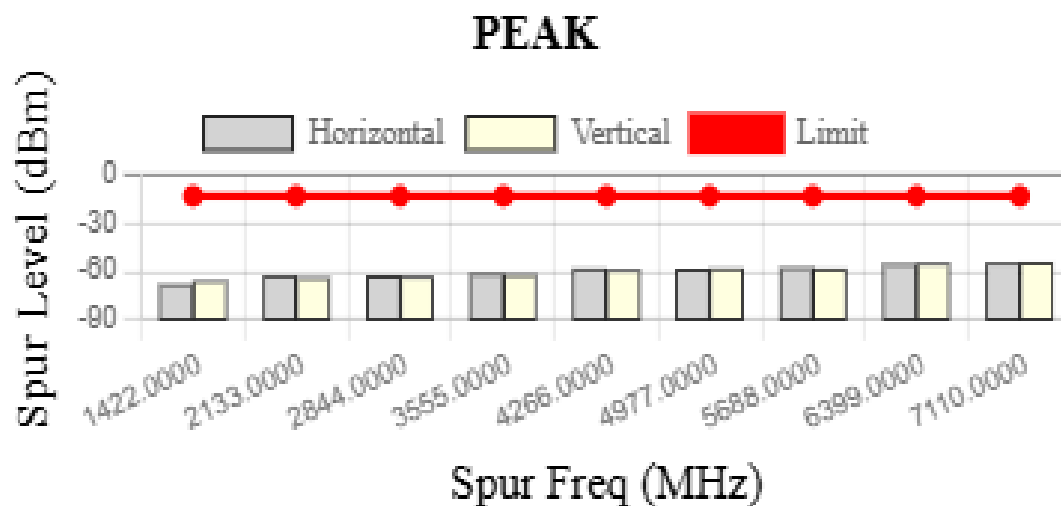
Remarks:

** 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.

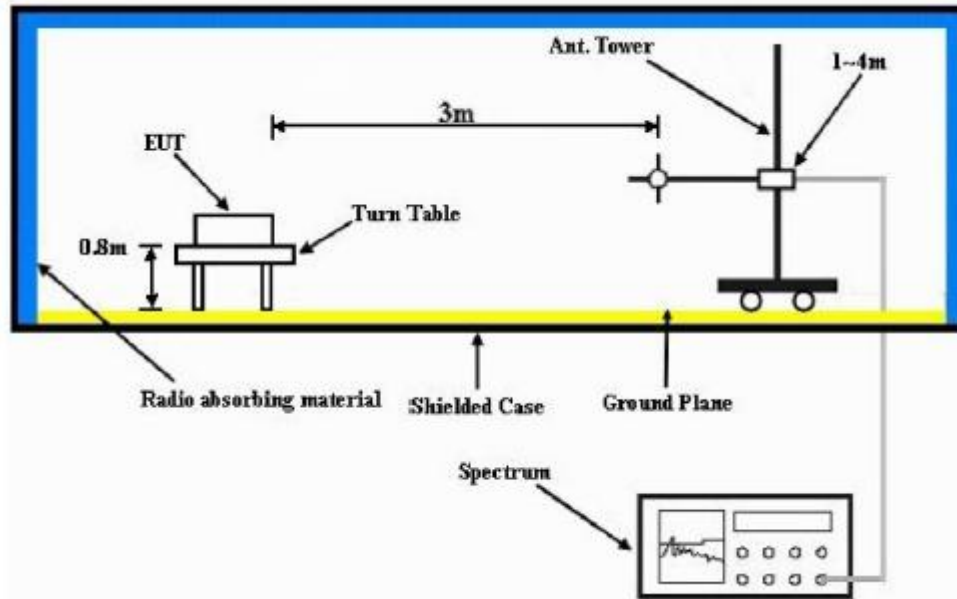
NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



1.13. Effective Radiated Power (ERP)

1.13.1. 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 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) EIRP = "Read Value" + Measured substitution value.

1.13.2. Test Limit

The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw). Power is given in terms of effective radiated power (ERP).

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

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

--End of Test Report--