



FCC RADIO TEST REPORT

FCC ID : ACJ9TGWW24A
Equipment : Radio Module
Brand Name : Panasonic
Model Name : WW24A
Applicant : Panasonic Corporation of North America
Two Riverfront Plaza, Newark, New Jersey, 07102-5490, USA
Standard : FCC 47 CFR Part 2, 96

The product was received on May 05, 2025 and testing was performed from May 08, 2025 to Dec. 14, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FG4D1252-01B	01	Initial issue of report	Dec. 19, 2025
FG4D1252-01B	02	Revised Appendix B, Summary, Product Feature of Equipment Under Test, and Frequency List of Low/Middle/High Channels This report is an updated version, replacing the report issued on Dec. 19, 2025.	Jan. 12, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
-	§96.41	Peak-to-Average Ratio	Pass	See Note
3.3	§96.41	Effective Isotropic Radiated Power TRP	Pass	-
3.4	§2.1049 §96.41	Occupied Bandwidth	Pass	-
3.5	§2.1051 §96.41	Conducted Band Edge Measurement	Pass	-
3.6	§2.1051 §96.41	Conducted Spurious Emission	Pass	-
-	§2.1055	Frequency Stability for Temperature & Voltage	Pass	See Note
4.4	§2.1053 §96.41	Radiated Spurious Emission	Pass	-

Remark:

- For host device, except for B48B is full test, other band is the spot check Radiated Spurious Emission and complies with the limit in this test report.
- For host device, except for B48B is full test, other band is the spot check Conducted Output Power is no difference after compared to module (Model: Panasonic WW24A)

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Keven Cheng

Report Producer: Shannon Huang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs	WCDMA /LTE/5G NR
Installed into the Host	Brand Name: Panasonic Model Name: FZ-40
Antenna Type for Host	Monopole Antenna
Antenna Gain for Host	B48: 2.3 dBi

The product was installed into Portable Computer (Brand Name: Panasonic, Model Name: FZ-40(mk3) during test

Support band and evaluated information	
Supported band	B48, B48B, B48C
Evaluated and Tested band	B48, B48B, B48C

TDD band Power Class				
	PC3	PC2		
B48/B48B/48C	V			

Antenna information(dBi)						
Band	Ant 1 (WWAN-3rd)	Ant 3 (WWAN-4th)		Main Ant. #		
B48	0.42	2.3		3		

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Site

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
Test Site No.	Sporton Site No.
	TH03-HY
Test Engineer	Wei Shun Hung
Temperature (°C)	22.3 ~ 22.9
Relative Humidity (%)	53.2 ~ 55.2
Remark	The Conducted test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	Sporton International Inc. Wensan Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)	
Test Site No.	Sporton Site No.	
	03CH20-HY	TH05-HY
Test Engineer	John Chuang, David Dai, and Sam Chou	Diego Huang
Temperature (°C)	19.1 ~ 22.6	22.3 ~ 22.9
Relative Humidity (%)	64.1 ~ 70.6	53.2 ~ 55.5

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786

1.4 Applied Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 96
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable and verify accessory (Adapter) and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report..

Modulation Type	Modulation
A	QPSK
B	16QAM
C	64QAM
D	256QAM

<LTE B48>

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A,B	All	1RB	L, M, H
EIRP	A,B	All	1RB	L, M, H
RSE	A	Max	1RB	M
Remark: 1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types. 2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.				

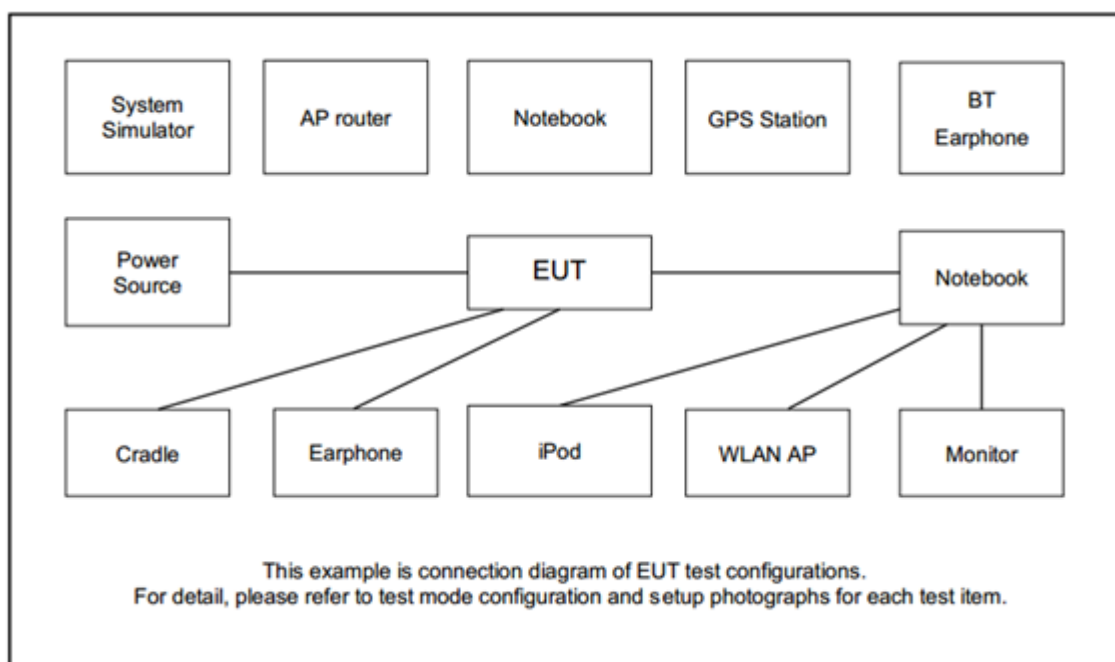
<LTE B48C>

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B,C	All	1RB	L, M, H
EIRP	A, B,C	All	1RB	L, M, H
RSE	A	Max	1RB	M
Remark: 1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types. 2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.				

<B48B>

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D	10+10 MHz	1, Half, Full	L, M, H
EIRP	A, B, C, D	10+10 MHz	1, Half, Full	L, M, H
Bandwidth	A, B	10+10 MHz	Full	M
ACLR, Mask	A	10+10 MHz	1RB Full	L, M, H
CSE	A	10+10 MHz	1RB	L, M, H
RSE	A	10+10 MHz	1RB	L, M, H
Remark: 1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types. 2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported. 3. One representative bandwidth is selected to perform PAR and frequency stability.				

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	Latitude5310	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
2.	Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Frequency List of Low/Middle/High Channels

LTE Band 48 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	55340	55990	56640
	Frequency	3560	3625	3690
15	Channel	55315	55990	56665
	Frequency	3557.5	3625	3692.5
10	Channel	55290	55990	56690
	Frequency	3555	3625	3695
5	Channel	55265	55990	56715
	Frequency	3552.5	3625	3697.5

LTE Band 48B Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
10+10	PCC	Channel	55290	55945	56591
		Frequency	3555	3623.5	3685.1
	SCC	Channel	55389	56044	56690
		Frequency	3564.9	3630.4	3695

LTE Band 48C Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	55340	55891	56442
		Frequency	3560	3615.1	3670.2
	SCC	Channel	55538	56089	56640
		Frequency	3579.8	3634.9	3690.0
20 + 15	PCC	Channel	55340	55916	56491
		Frequency	3560	3617.6	3675.1
	SCC	Channel	55511	56087	56662
		Frequency	3577.1	3634.7	3692.2
15 + 20	PCC	Channel	55318	55893	56469
		Frequency	3557.8	3615.3	3672.9
	SCC	Channel	55489	56064	56640
		Frequency	3574.9	3632.4	3690.0
20 + 10	PCC	Channel	55340	55941	56541
		Frequency	3560	3620.1	3680.1
	SCC	Channel	55484	56085	56685
		Frequency	3574.4	3634.5	3694.5
10 + 20	PCC	Channel	55295	55896	56496
		Frequency	3555.5	3615.6	3675.6
	SCC	Channel	55439	56040	56640
		Frequency	3569.9	3630	3690
20 + 5	PCC	Channel	55340	55965	56590
		Frequency	3560	3622.5	3685
	SCC	Channel	55457	56082	56707
		Frequency	3571.7	3634.2	3696.7
5 + 20	PCC	Channel	55273	55896	56523
		Frequency	3553.3	3615.6	3678.3
	SCC	Channel	55390	56015	56640
		Frequency	3565	3627.5	3690.0

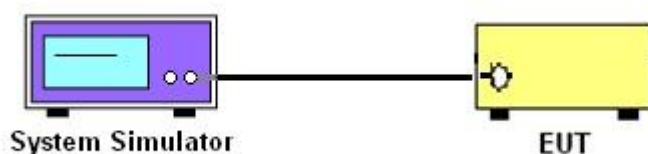
3 Conducted Test Items

3.1 Measuring Instruments

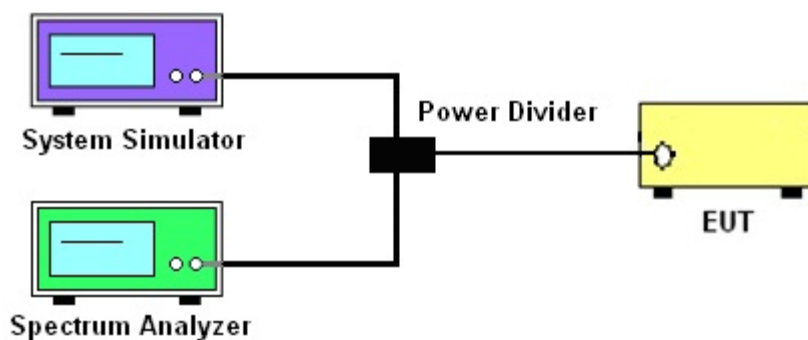
See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 EIRP, Occupied Bandwidth, Conducted Band-Edge, and Conducted Spurious Emission



3.1.4 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power Measurement

3.2.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.2.2 Test Procedures

1. The transmitter output port was connected to base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.



3.3 EIRP

3.3.1 Description of the EIRP Measurement

The EIRP of mobile transmitters must not exceed 23 dBm /10 megahertz for LTE Band 48.

The testing follows ANSI C63.26-2015 Section 5.2.5.5.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - LC$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

Device	Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a

Remark: Total channel power is complied with EIRP limit 23dBm/10MHz.

3.3.2 Test Procedures

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 CBRS Eqpt v03 Section 3.2(b)(2)

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.

3.4 Occupied Bandwidth

3.4.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

For Adjacent Channel Leakage Ratio (ACLR) measurement,

1. The Adjacent Channel Leakage Ratio (ACLR) is the ratio of the average power in the assigned aggregated channel bandwidth to the average power over the equivalent adjacent channel bandwidth.
2. The option ACLR of spectrum analyzer is used and measures the ACLR ratio by setting equivalent channel bandwidth.
3. The measured ACLR ratio shall be at least 30 dB.

3.6 Conducted Spurious Emission

3.6.1 Description of Conducted Spurious Emission Measurement

96.41 (e)(2)

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is -40dBm/MHz.
10. The test reduction is applied to 1RB case for 10MHz Bandwidth to cover the all operation bandwidths. RBW 500kHz is applied to the 0-1MHz offset from the edge of the frequency block group for 1RB mode in order to represent the worst case condition.

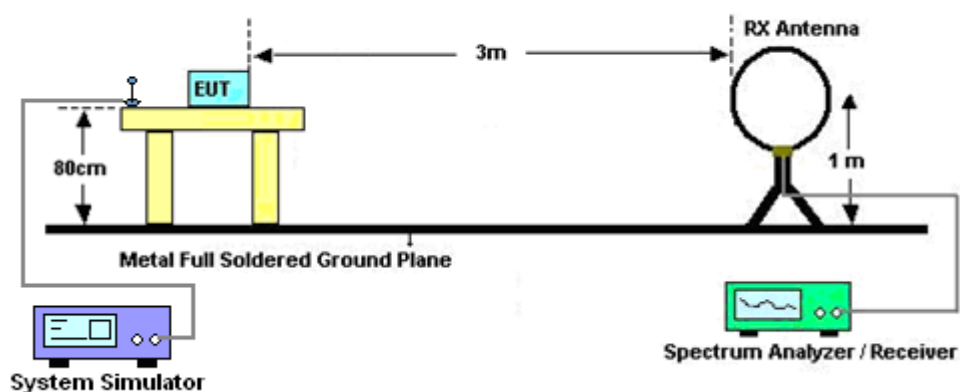
4 Radiated Test Items

4.1 Measuring Instruments

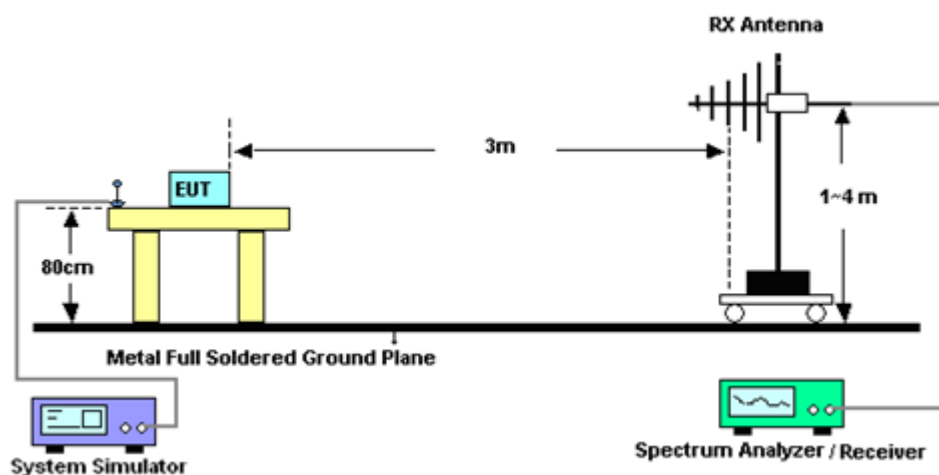
See list of measuring instruments of this test report.

4.2 Test Setup

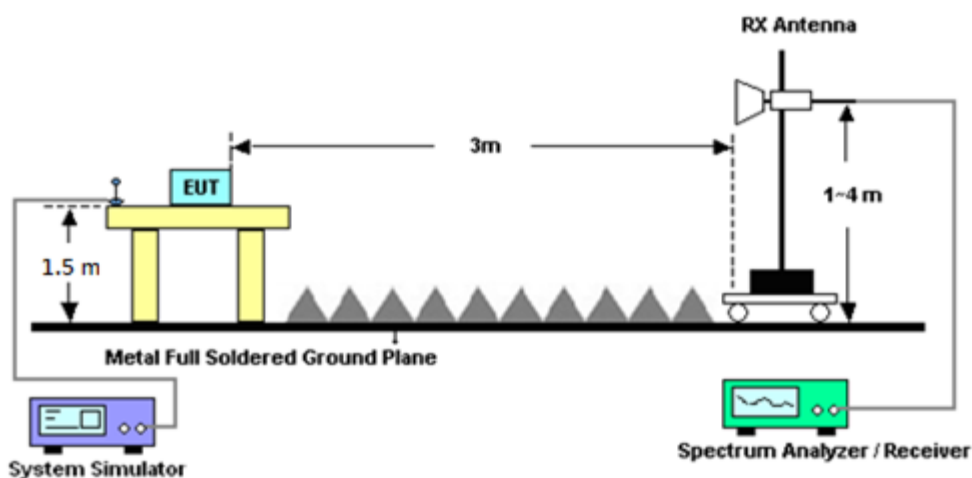
For radiated test below 30MHz



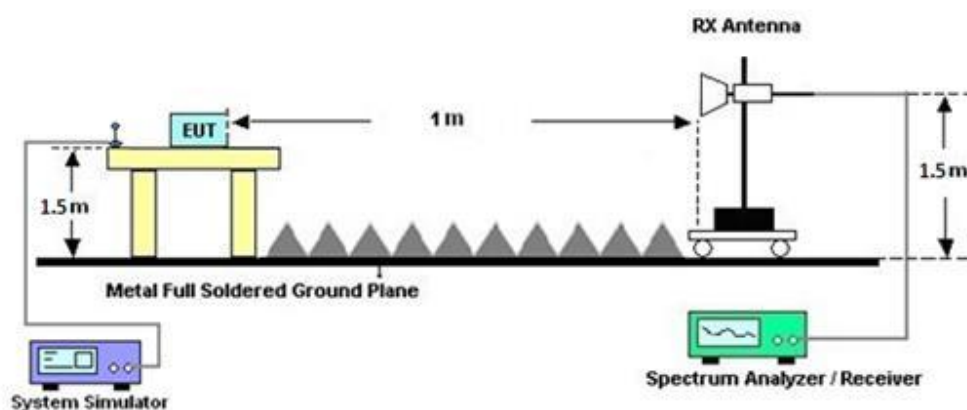
For radiated test from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



For radiated emissions above 18GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least -40dBm / MHz

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
8. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
9. ERP (dBm) = EIRP (dBm) - 2.15
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038B	MY62210111	N/A	Aug. 29, 2025	Sep. 03, 2025~ Oct. 15, 2025	Aug. 28, 2026	Radiation (03CH20-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	N/A	Oct. 16, 2025	Oct. 16, 2025~ Dec. 08, 2025	Oct. 15, 2026	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 18, 2024	Sep. 03, 2025~ Dec. 08, 2025	Dec. 17, 2025	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060872	18GHz~40GHz	Nov. 29, 2024	Sep. 03, 2025~ Oct. 27, 2025	Nov. 28, 2025	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	Oct. 28, 2025~ Dec. 08, 2025	Aug. 25, 2026	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Sep. 03, 2025~ Dec. 08, 2025	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Sep. 03, 2025~ Dec. 08, 2025	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Sep. 03, 2025~ Dec. 08, 2025	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	N/A	Dec. 09, 2024	Sep. 03, 2025~ Oct. 27, 2025	Dec. 08, 2025	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY54200485	N/A	Aug. 27, 2025	Oct. 28, 2025~ Dec. 08, 2025	Aug 26, 2026	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	55606 & 08	30MHz~1GHz	Nov. 27, 2024	Sep. 03, 2025~ Oct. 27, 2025	Nov. 26, 2025	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01 N-06	47020 & 06	30MHz~1GHz	Oct. 04, 2025	Oct. 28, 2025~ Dec. 08, 2025	Oct. 03, 2026	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	02360	1GHz-18GHz	Nov. 01, 2024	Sep. 03, 2025~ Oct. 27, 2025	Oct. 31, 2025	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	1212	1GHz-18GHz	Mar. 27, 2025	Oct. 28, 2025~ Nov. 04, 2025	Mar. 26, 2026	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	02360	1GHz-18GHz	Nov. 05, 2025	Nov. 05, 2025~ Dec. 08, 2025	Nov. 04, 2026	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1223	18GHz-40GHz	Jul. 02, 2025	Sep. 03, 2025~ Oct. 27, 2025	Jul. 01, 2026	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1225	18GHz-40GHz	Jul. 02, 2025	Oct. 28, 2025~ Dec. 08, 2025	Jul. 01, 2026	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Dec. 31, 2024	Sep. 03, 2025~ Dec. 08, 2025	Dec. 30, 2025	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45S E	980792	N/A	Nov. 12, 2024	Sep. 03, 2025~ Nov. 10, 2025	Nov. 11, 2025	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45S E	980792	N/A	Nov. 11, 2025	Nov. 11, 2025~ Dec. 08, 2025	Nov. 10, 2026	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,8 04015/2,80 4027/2	N/A	Jan. 16, 2025	Sep. 03, 2025~ Dec. 08, 2025	Jan. 15, 2026	Radiation (03CH20-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEPEL	DTM-303A	TP211382	N/A	Mar. 31, 2025	Sep. 03, 2025~ Dec. 08, 2025	Mar. 30, 2026	Radiation (03CH20-HY)
Software	Audix	N/A	RK- 002156	N/A	N/A	Sep. 03, 2025~ Dec. 08, 2025	N/A	Radiation (03CH20-HY)
Radio Communication Analyzer	Anritsu	MT8821C	626202535 3	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 01, 2024	May 08, 2025~ Sep. 03, 2025	Sep. 30, 2025	Conducted (TH03-HY)
Coupler+10dB+ RFCable	Warison + WoKen + E-Instument	20dB 25W SMA Directional Coupler+ 10dB 18GHz_5W+ SFL405_1.5M	#A+#1+#1 +#7	1-18GHz	Jan. 03, 2025	May 08, 2025~ Sep. 03, 2025	Jan. 02, 2026	Conducted (TH03-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13, 2024	May 08, 2025~ Sep. 03, 2025	Jun. 12, 2025	Conducted (TH03-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13, 2025	May 08, 2025~ Sep. 03, 2025	Jun. 12, 2026	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101905	10Hz~40GHz	Jul. 11, 2024	May 08, 2025~ Sep. 03, 2025	Jul. 10, 2025	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101905	10Hz~40GHz	Jul. 21, 2025	May 08, 2025~ Sep. 03, 2025	Jul. 20, 2026	Conducted (TH03-HY)
Software	Sporton	LTE Conducted Test Tools	N/A	Conducted Test Item	N/A	May 08, 2025~ Sep. 03, 2025	N/A	Conducted (TH03-HY)
Hygrometer	TECEPEL	DTM-303B	TP200886	-10 ~ 50°C / 20 ~ 95%RH	Mar. 03, 2025	May 08, 2025~ Sep. 03, 2025	Mar. 02, 2026	Conducted (TH03-HY)
Radio Communication Analyzer	Anritsu	MT8821C	626202534 1	LTE FDD/TDD LTE-2CC ULCA/DLCA	Sep. 16, 2025	Dec. 07, 2025~ Dec. 14, 2025	Sep. 15, 2026	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GET86154 6	0V~64V ; 0A~6A	Jun. 03, 2025	Dec. 07, 2025~ Dec. 14, 2025	Jun. 02, 2026	Conducted (TH05-HY)
Coupler	MVE	MVE4816	#Y	0.5~18GHz	Oct. 16, 2025	Dec. 07, 2025~ Dec. 14, 2025	Oct. 15, 2026	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101907	10Hz~40GHz	Aug. 25, 2025	Dec. 07, 2025~ Dec. 14, 2025	Aug. 24, 2026	Conducted (TH05-HY)
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	Apr. 25, 2025	Dec. 07, 2025~ Dec. 14, 2025	Apr. 24, 2026	Conducted (TH05-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13, 2025	Dec. 07, 2025~ Dec. 14, 2025	Jun. 12, 2026	Conducted (TH05-HY)
Software	Sporton	LTE Conducted Test Tools	N/A	Conducted Test Item	N/A	Dec. 07, 2025~ Dec. 14, 2025	N/A	Conducted (TH05-HY)
Hygrometer	TECEPEL	DTM-303B	TP200886	-10 ~ 50°C / 20 ~ 95%RH	Mar. 03, 2025	Dec. 07, 2025~ Dec. 14, 2025	Mar. 02, 2026	Conducted (TH05-HY)

6 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.7 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.4 dB
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Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.6 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power and EIRP)

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = 2.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	18.33	17.80	17.53	20.63	0.1156
20	1	49		17.95	17.74	17.25		
20	1	99		17.59	17.41	17.34		
20	50	0		18.02	17.75	17.49		
20	50	24		18.03	17.79	17.55		
20	50	50		17.78	17.56	17.51		
20	100	0		18.00	17.83	17.63		
20	1	0	16-QAM	18.09	18.05	17.39	20.39	0.1094
20	1	49		17.74	18.01	17.39		
20	1	99		17.56	17.56	17.01		
20	50	0		18.01	17.89	17.64		
20	50	24		17.96	17.82	17.60		
20	50	50		17.83	17.60	17.42		
20	100	0		17.92	17.75	17.54		
20	1	0	64-QAM	17.93	17.68	17.64	20.31	0.1074
20	1	49		17.90	17.76	17.14		
20	1	99		17.89	17.23	17.88		
20	50	0		18.01	17.71	17.59		
20	50	24		17.99	17.87	17.56		
20	50	50		17.83	17.67	17.46		
20	100	0		17.93	17.71	17.49		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = 2.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	18.16	17.68	17.35	20.46	0.1112
15	1	37		17.76	17.54	17.07		
15	1	74		17.39	17.26	17.16		
15	36	0		17.87	17.64	17.59		
15	36	20		17.85	17.59	17.36		
15	36	39		17.67	17.36	17.39		
15	75	0		17.82	17.65	17.53		
15	1	0	16-QAM	17.97	17.93	17.27	20.27	0.1064
15	1	37		17.62	17.89	17.25		
15	1	74		17.40	17.38	17.02		
15	36	0		17.87	17.78	17.47		
15	36	20		17.82	17.65	17.49		
15	36	39		17.67	17.42	17.26		
15	75	0		17.81	17.58	17.36		
15	1	0	64-QAM	17.74	17.57	17.54	20.19	0.1045
15	1	37		17.70	17.59	17.02		
15	1	74		17.71	17.10	17.75		
15	36	0		17.84	17.58	17.49		
15	36	20		17.89	17.68	17.40		
15	36	39		17.65	17.50	17.33		
15	75	0		17.81	17.53	17.31		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = 2.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	18.18	17.65	17.39	20.48	0.1117
10	1	25		17.82	17.54	17.15		
10	1	49		17.43	17.30	17.24		
10	25	0		17.87	17.60	17.51		
10	25	12		17.89	17.61	17.39		
10	25	25		17.68	17.39	17.37		
10	50	0		17.86	17.72	17.52		
10	1	0	16-QAM	17.93	17.94	17.20	20.24	0.1057
10	1	25		17.61	17.82	17.21		
10	1	49		17.42	17.44	17.05		
10	25	0		17.89	17.79	17.46		
10	25	12		17.85	17.66	17.44		
10	25	25		17.67	17.41	17.24		
10	50	0		17.72	17.61	17.41		
10	1	0	64-QAM	17.75	17.55	17.54	20.19	0.1045
10	1	25		17.73	17.56	17.10		
10	1	49		17.78	17.12	17.68		
10	25	0		17.81	17.55	17.45		
10	25	12		17.89	17.69	17.43		
10	25	25		17.72	17.57	17.31		
10	50	0		17.75	17.57	17.33		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = 2.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	18.21	17.68	17.41	20.51	0.1125
5	1	12		17.85	17.59	17.07		
5	1	24		17.49	17.21	17.20		
5	12	0		17.91	17.58	17.56		
5	12	7		17.89	17.60	17.39		
5	12	13		17.62	17.37	17.31		
5	25	0		17.82	17.67	17.53		
5	1	0	16-QAM	17.92	17.90	17.21	20.22	0.1052
5	1	12		17.62	17.86	17.22		
5	1	24		17.38	17.36	17.11		
5	12	0		17.86	17.75	17.52		
5	12	7		17.79	17.65	17.40		
5	12	13		17.70	17.50	17.23		
5	25	0		17.72	17.63	17.38		
5	1	0	64-QAM	17.82	17.53	17.44	20.18	0.1042
5	1	12		17.74	17.63	17.14		
5	1	24		17.77	17.09	17.74		
5	12	0		17.85	17.61	17.43		
5	12	7		17.88	17.73	17.37		
5	12	13		17.69	17.48	17.29		
5	25	0		17.77	17.58	17.37		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part 96 LTE Band 48C_CA Maximum Average Power [dBm] (GT - LC = 2.3 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	100	0	100	0	QPSK	18.39	18.25	18.05	20.69	0.1172
20+20	1	0	1	99		14.92	14.75	14.52		
20+20	1	99	1	0		18.21	18.18	17.90		
20+20	100	0	100	0	16-QAM	18.36	18.27	18.07	21.16	0.1306
20+20	1	0	1	99		15.57	15.36	14.90		
20+20	1	99	1	0		18.86	18.62	18.38		
20+20	100	0	100	0	64-QAM	18.37	18.34	18.05	21.04	0.1271
20+20	1	0	1	99		15.25	15.25	15.02		
20+20	1	99	1	0		18.74	18.67	18.16		
20+20	100	0	100	0	256-QAM	18.41	18.28	18.11	20.93	0.1239
20+20	1	0	1	99		15.19	15.16	14.72		
20+20	1	99	1	0		18.63	18.49	18.26		
20+15	100	0	75	0	QPSK	18.34	18.26	18.08	20.64	0.1159
20+15	1	0	1	74		14.97	14.86	14.58		
20+15	1	99	1	0		18.21	18.12	17.89		
20+15	100	0	75	0	16-QAM	18.45	18.22	18.08	21.08	0.1282
20+15	1	0	1	74		15.44	15.43	15.15		
20+15	1	99	1	0		18.78	18.65	18.47		
20+15	100	0	75	0	64-QAM	18.33	18.26	18.02	21.12	0.1294
20+15	1	0	1	74		15.40	15.22	15.02		
20+15	1	99	1	0		18.82	18.72	18.45		
20+15	100	0	75	0	256-QAM	18.41	18.28	18.02	20.85	0.1216
20+15	1	0	1	74		15.26	15.05	14.77		
20+15	1	99	1	0		18.55	18.40	18.24		
15+20	75	0	100	0	QPSK	18.36	18.25	18.08	20.66	0.1164
15+20	1	0	1	99		14.96	14.75	14.55		
15+20	1	74	1	0		18.19	18.11	17.90		
15+20	75	0	100	0	16-QAM	18.37	18.31	18.07	21.16	0.1306
15+20	1	0	1	99		15.63	15.45	15.17		
15+20	1	74	1	0		18.86	18.71	18.49		
15+20	75	0	100	0	64-QAM	18.41	18.32	18.05	21.24	0.1330
15+20	1	0	1	99		15.42	15.42	15.00		
15+20	1	74	1	0		18.84	18.94	18.42		
15+20	75	0	100	0	256-QAM	18.44	18.29	18.10	20.9	0.1230
15+20	1	0	1	99		14.94	15.04	14.83		
15+20	1	74	1	0		18.60	18.60	18.41		
Limit	EIRP < 23dBm/10MHz					Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part 96 LTE Band 48C_CA Maximum Average Power [dBm] (GT - LC = 2.3 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+10	100	0	50	0	QPSK	18.32	18.23	18.05	20.62	0.1153
20+10	1	0	1	49		14.96	14.88	14.59		
20+10	1	99	1	0		18.23	18.13	17.88		
20+10	100	0	50	0	16-QAM	18.36	18.25	18.00	21.09	0.1285
20+10	1	0	1	49		15.58	15.44	15.16		
20+10	1	99	1	0		18.79	18.69	18.40		
20+10	100	0	50	0	64-QAM	18.40	18.27	18.02	21.11	0.1291
20+10	1	0	1	49		15.42	15.36	15.12		
20+10	1	99	1	0		18.81	18.56	18.29		
20+10	100	0	50	0	256-QAM	18.39	18.31	18.00	20.86	0.1219
20+10	1	0	1	49		15.23	15.10	14.81		
20+10	1	99	1	0		18.56	18.56	18.14		
10+20	50	0	100	0	QPSK	18.35	18.24	18.01	20.65	0.1161
10+20	1	0	1	99		14.95	14.85	14.57		
10+20	1	49	1	0		18.24	18.14	17.89		
10+20	50	0	100	0	16-QAM	18.33	18.29	18.10	20.99	0.1256
10+20	1	0	1	99		15.32	15.40	15.15		
10+20	1	49	1	0		18.69	18.63	18.45		
10+20	50	0	100	0	64-QAM	18.38	18.28	18.11	21.1	0.1288
10+20	1	0	1	99		15.44	15.30	15.02		
10+20	1	49	1	0		18.80	18.55	18.39		
10+20	50	0	100	0	256-QAM	18.38	18.32	18.07	21.01	0.1262
10+20	1	0	1	99		15.17	15.15	14.71		
10+20	1	49	1	0		18.71	18.44	18.49		
20+5	100	0	25	0	QPSK	18.40	18.20	17.95	20.7	0.1175
20+5	1	0	1	24		14.94	14.82	14.57		
20+5	1	99	1	0		18.17	18.00	17.88		
20+5	100	0	25	0	16-QAM	18.37	18.25	17.95	21.08	0.1282
20+5	1	0	1	24		15.57	15.40	15.09		
20+5	1	99	1	0		18.78	18.65	18.43		
20+5	100	0	25	0	64-QAM	18.35	18.29	18.03	21.04	0.1271
20+5	1	0	1	24		15.50	15.33	14.88		
20+5	1	99	1	0		18.74	18.58	18.31		
20+5	100	0	25	0	256-QAM	18.42	18.25	18.06	20.86	0.1219
20+5	1	0	1	24		14.97	15.10	14.85		
20+5	1	99	1	0		18.56	18.36	18.18		
Limit	EIRP < 23dBm/10MHz					Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part 96 LTE Band 48C_CA Maximum Average Power [dBm] (GT - LC = 2.3 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
5+20	25	0	100	0	QPSK	18.38	18.27	17.99	20.68	0.1169
5+20	1	0	1	99		14.85	14.79	14.54		
5+20	1	24	1	0		18.30	18.17	17.91		
5+20	25	0	100	0	16-QAM	18.46	18.32	18.07	21.27	0.1340
5+20	1	0	1	99		15.60	15.34	15.20		
5+20	1	24	1	0		18.97	18.79	18.47		
5+20	25	0	100	0	64-QAM	18.40	18.33	18.09	21.06	0.1276
5+20	1	0	1	99		15.40	15.34	15.10		
5+20	1	24	1	0		18.76	18.73	18.37		
5+20	25	0	100	0	256-QAM	18.48	18.33	18.06	20.92	0.1236
5+20	1	0	1	99		15.03	14.87	14.81		
5+20	1	24	1	0		18.60	18.62	18.13		
Limit	EIRP < 23dBm/10MHz					Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part 96 LTE Band 48B_CA Maximum Average Power [dBm] (GT - LC = 2.3 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
10+10	50	0	50	0	QPSK	15.70	15.72	15.73	19.78	0.0951
10+10	1	0	1	49		7.08	7.21	7.14		
10+10	1	49	1	0		17.36	17.48	17.37		
10+10	50	0	50	0	16-QAM	14.77	14.74	14.66	19.38	0.0867
10+10	1	0	1	49		7.82	7.79	7.90		
10+10	1	49	1	0		17.02	17.08	16.75		
10+10	50	0	50	0	64-QAM	14.56	14.62	14.53	18.13	0.0650
10+10	1	0	1	49		7.36	7.39	7.22		
10+10	1	49	1	0		15.40	15.82	15.83		
10+10	50	0	50	0	256-QAM	13.23	13.13	7.74	15.78	0.0378
10+10	1	0	1	49		7.69	7.71	7.99		
10+10	1	49	1	0		13.36	13.41	13.48		
Limit	EIRP < 23dBm/10MHz					Result			Pass	

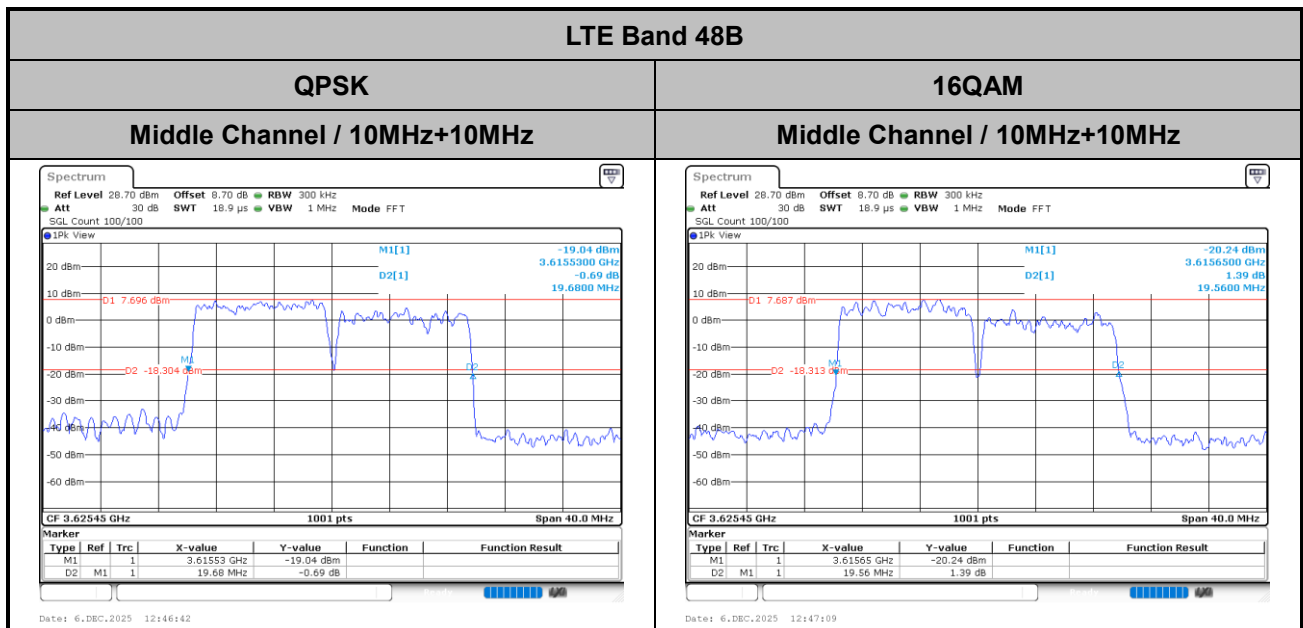
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



LTE Band 48B

26dB Bandwidth

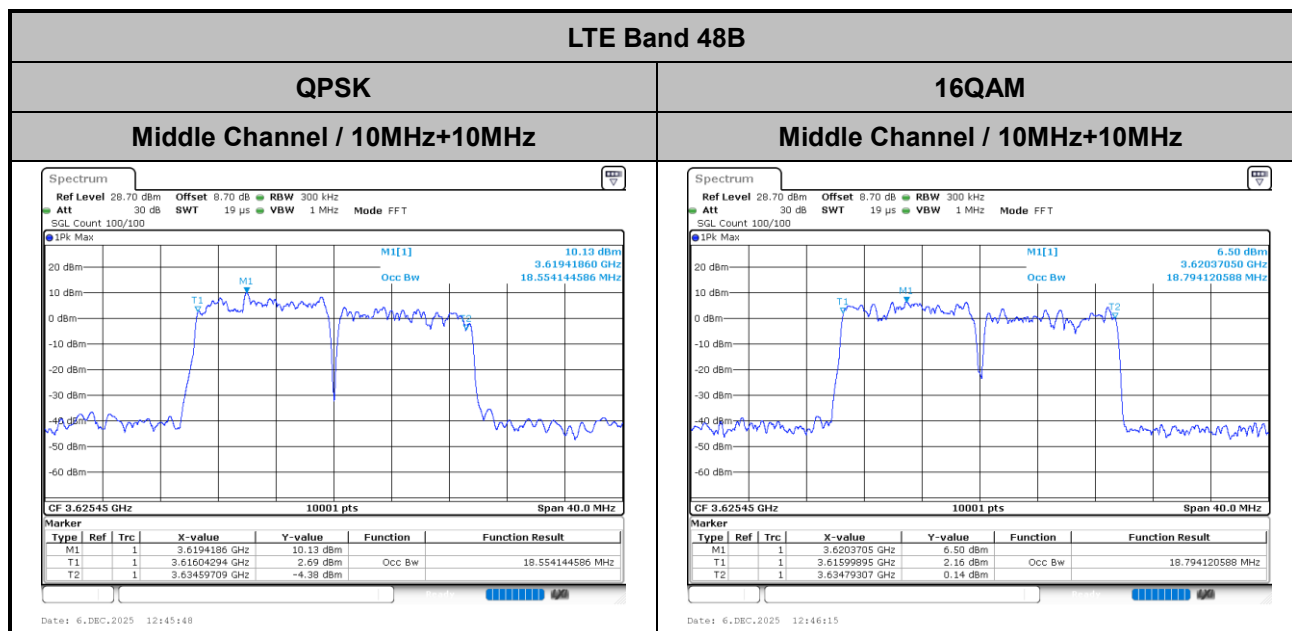
Mode	LTE Band 48B : 26dB BW(MHz)	
	10MHz+10MHz	
BW	QPSK	16QAM
Middle CH	19.68	19.56





Occupied Bandwidth

Mode	LTE Band 48B : 99%OBW(MHz)	
	10MHz+10MHz	
BW	QPSK	16QAM
Middle CH	18.55	18.79





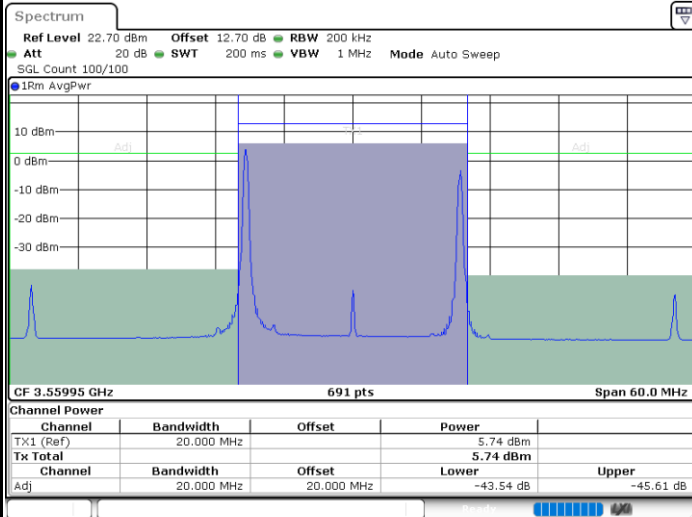
ACLR

LTE Band 48B / 10MHz+10MHz

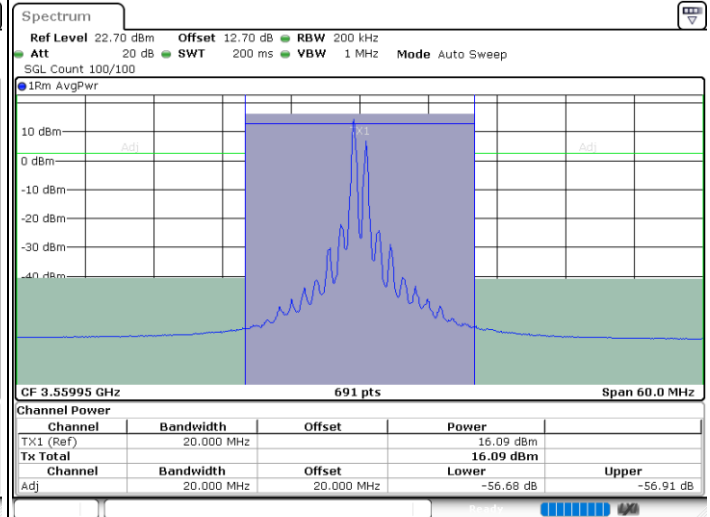
QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB49 and 1RB0



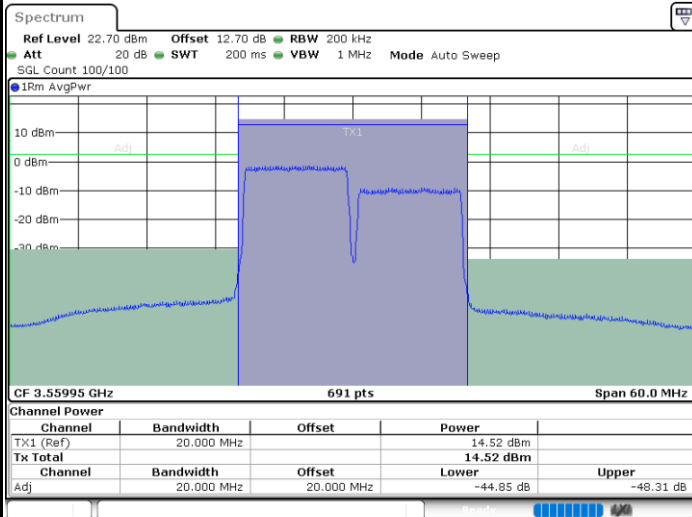
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Date: 6.DEC.2025 12:33:02

Lowest Channel / FullRB

N/A



Date: 6.DEC.2025 12:31:29

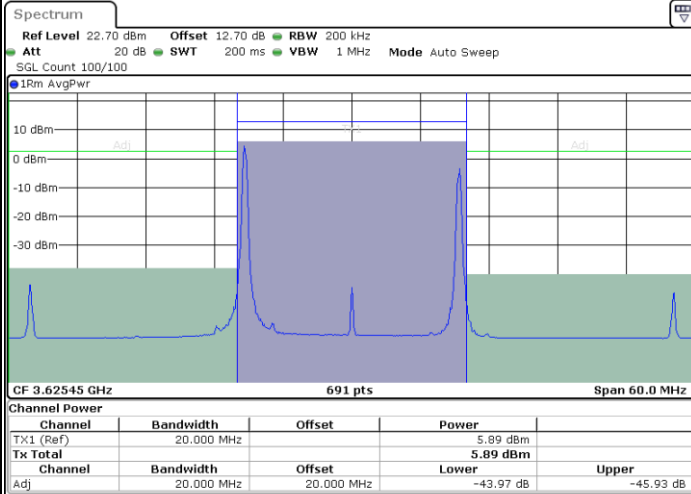


LTE Band 48B / 10MHz+10MHz

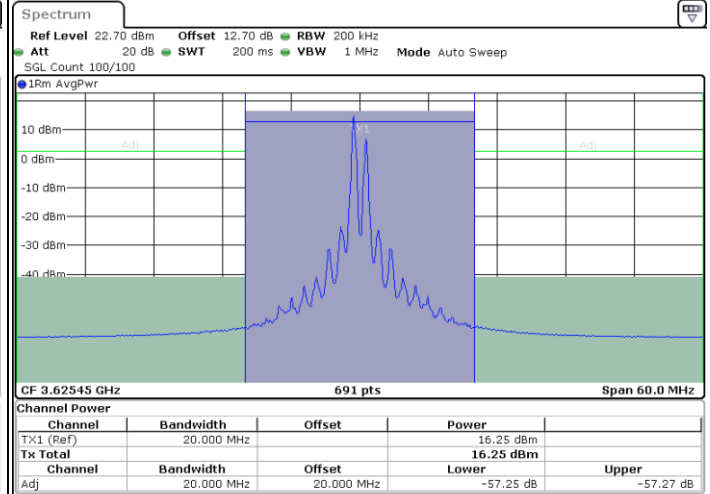
QPSK

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0



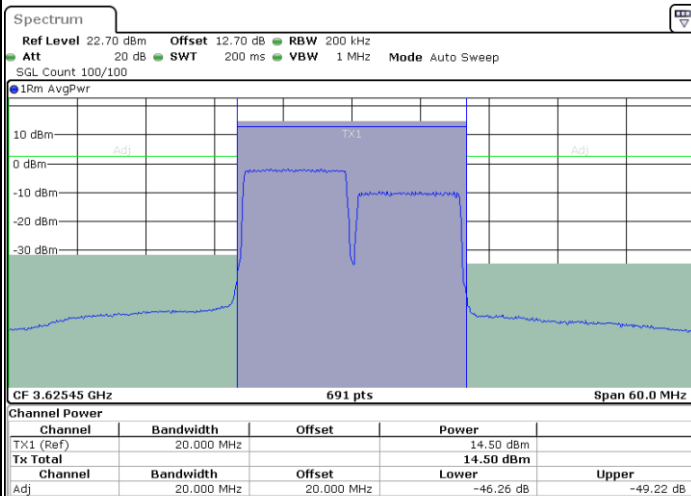
Date: 6, DEC, 2025 12:34:35



Date: 6, DEC, 2025 12:35:22

Middle Channel / FullRB

N/A



Date: 6, DEC, 2025 12:33:48

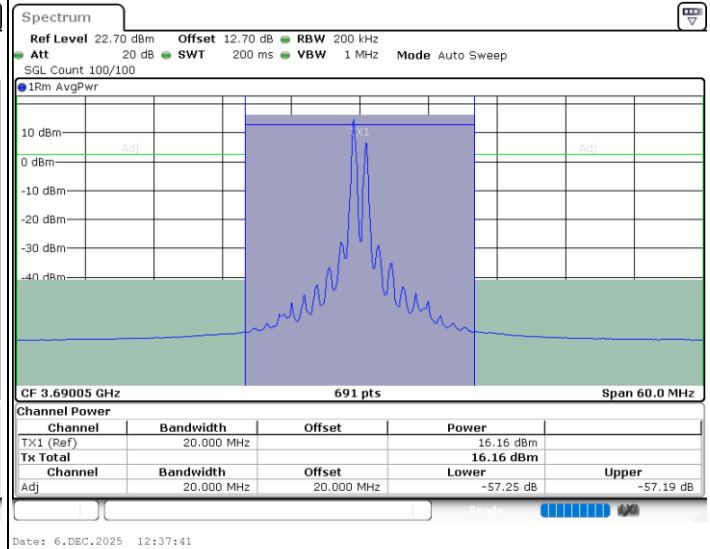
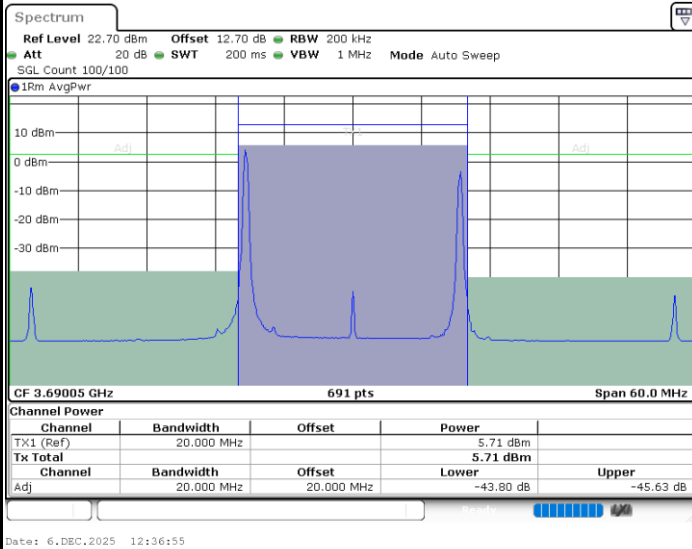


LTE Band 48B / 10MHz+10MHz

QPSK

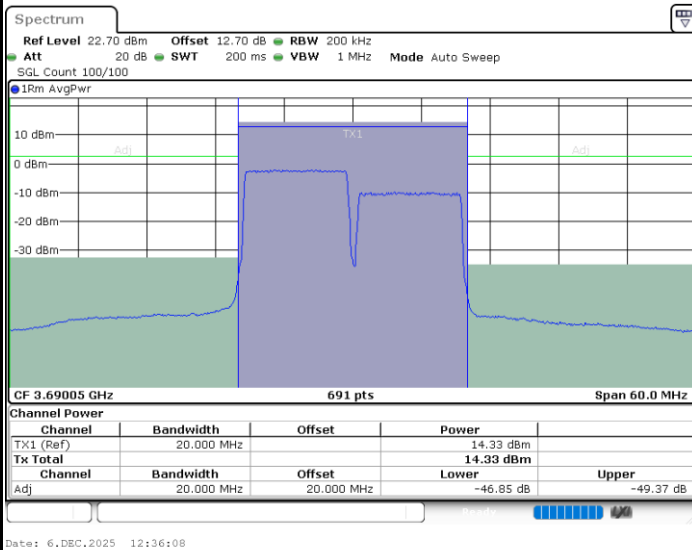
Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0



Highest Channel / FullIRB

N/A



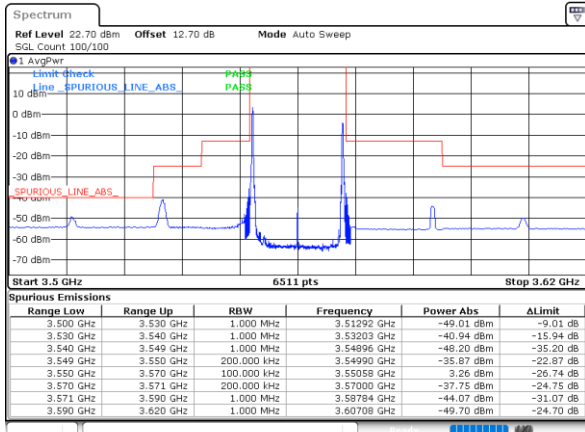


Conducted Band Edge

LTE Band 48B / 10MHz+10MHz

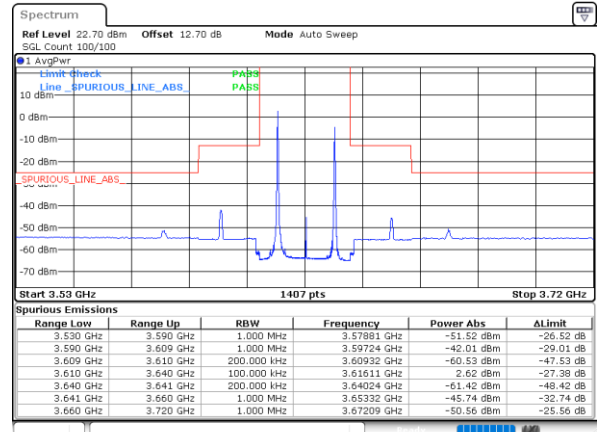
QPSK

Lowest Band Edge / 1RB0 and 1RB49



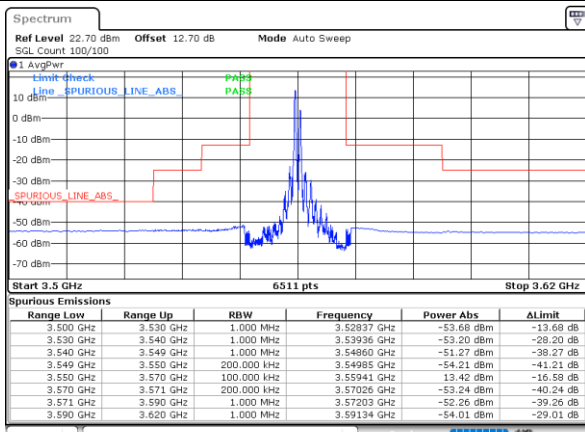
Date: 6.DEC.2025 12:22:49

Middle Band Edge / 1RB0 and 1RB49



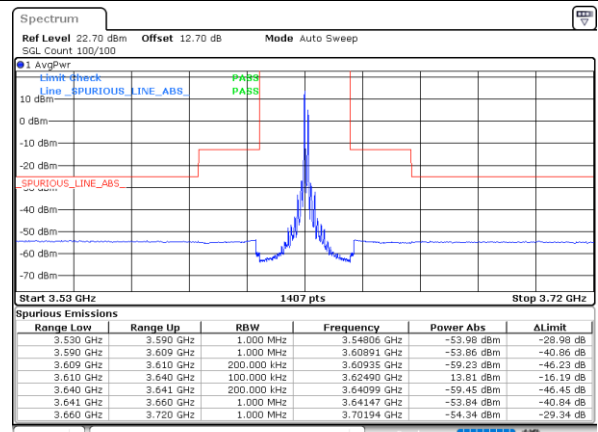
Date: 6.DEC.2025 12:26:09

Lowest Band Edge / 1RB49 and 1RB0



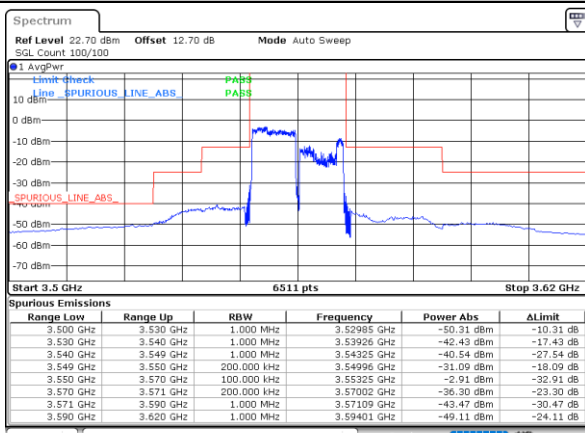
Date: 6.DEC.2025 12:23:56

Middle Band Edge / 1RB49 and 1RB0



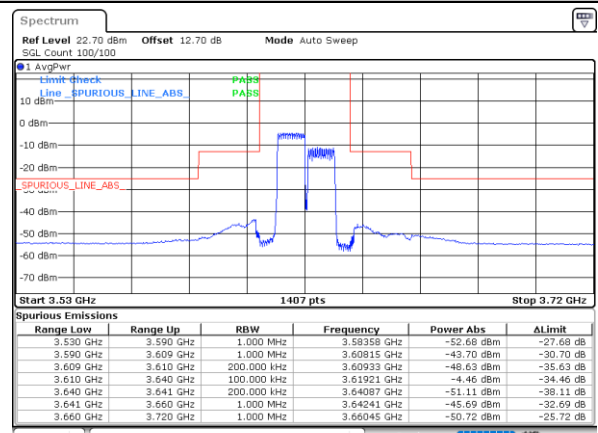
Date: 6.DEC.2025 12:27:16

Lowest Band Edge / Full RB



Date: 6.DEC.2025 12:21:41

Middle Band Edge / Full RB



Date: 6.DEC.2025 12:25:02

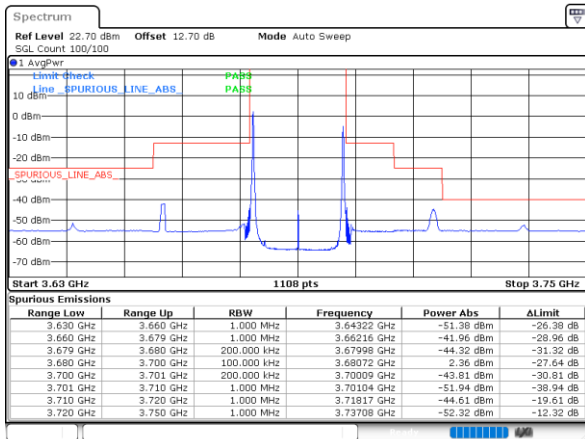


LTE Band 48B / 10MHz+10MHz

QPSK

Highest Band Edge / 1RB0 and 1RB49

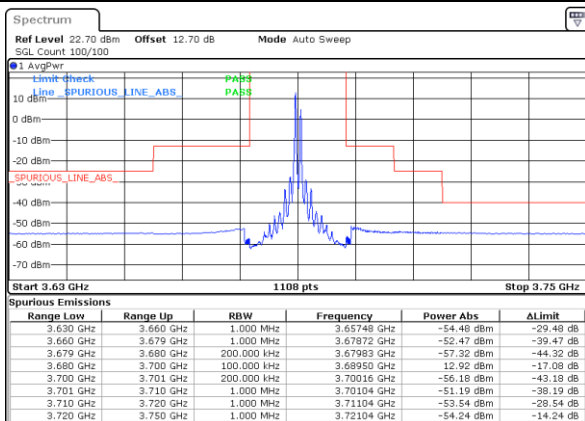
N/A



Date: 6.DEC.2025 12:29:35

Highest Band Edge / 1RB49 and 1RB0

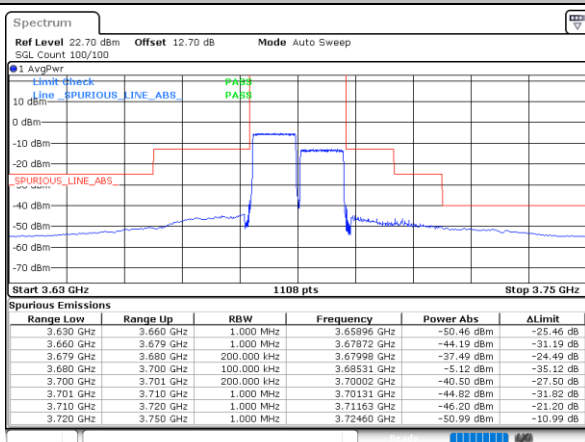
N/A



Date: 6.DEC.2025 12:30:42

Highest Band Edge / Full RB

N/A



Date: 6.DEC.2025 12:28:28



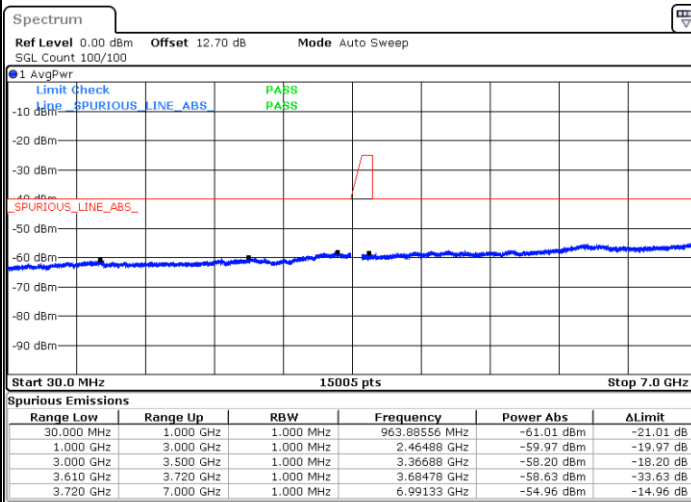
Conducted Spurious Emission

LTE Band 48B / 10MHz+10MHz

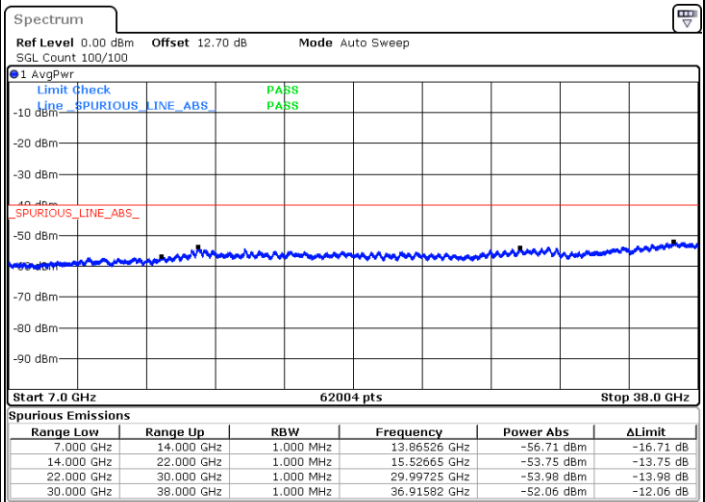
QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB49 and 1RB0



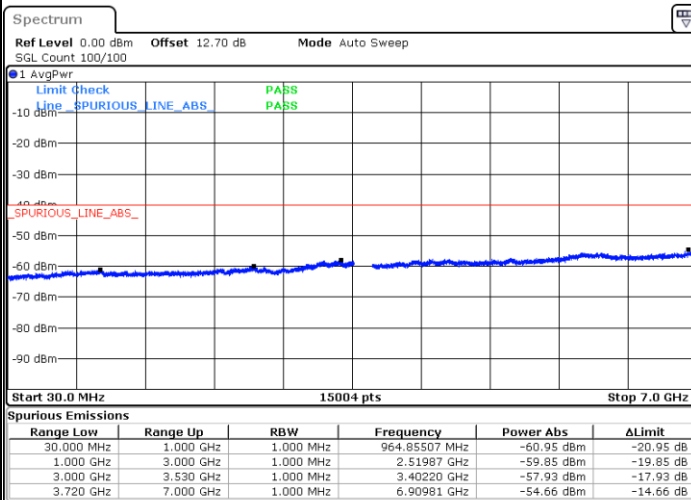
Date: 6.DEC.2025 12:40:14



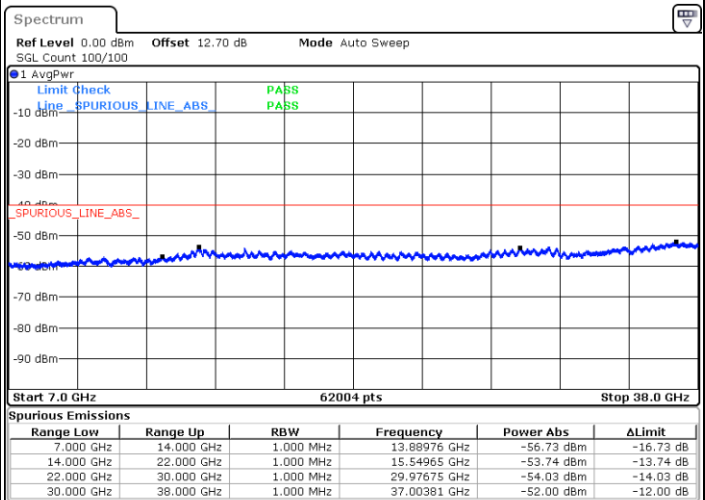
Date: 14.DEC.2025 02:07:37

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0



Date: 6.DEC.2025 12:41:30



Date: 14.DEC.2025 02:08:57

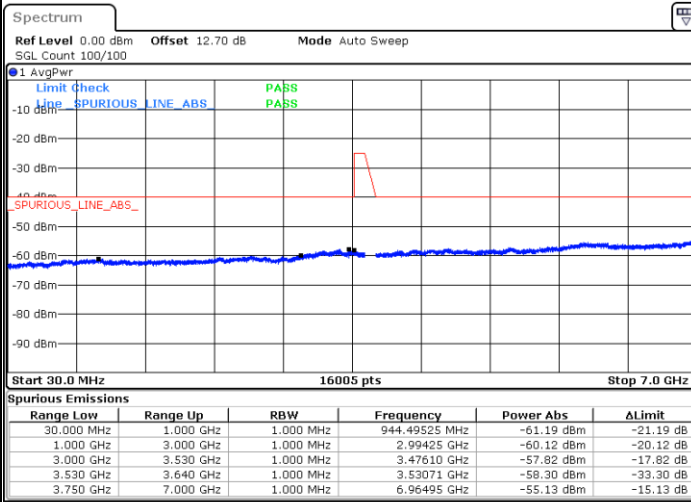


LTE Band 48B / 10MHz+10MHz

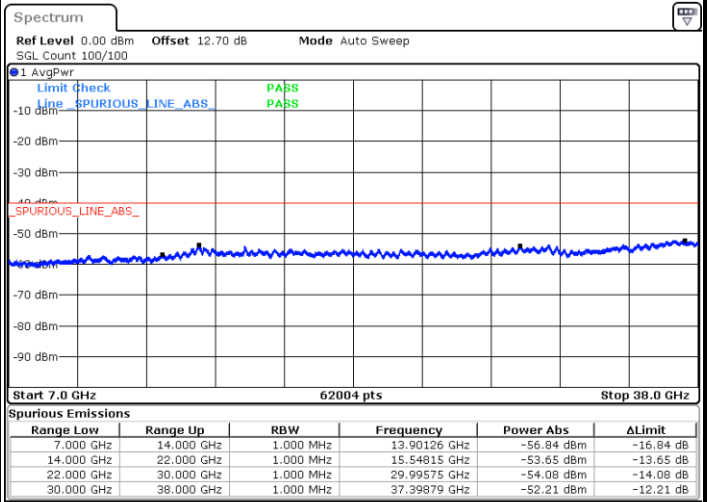
QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0



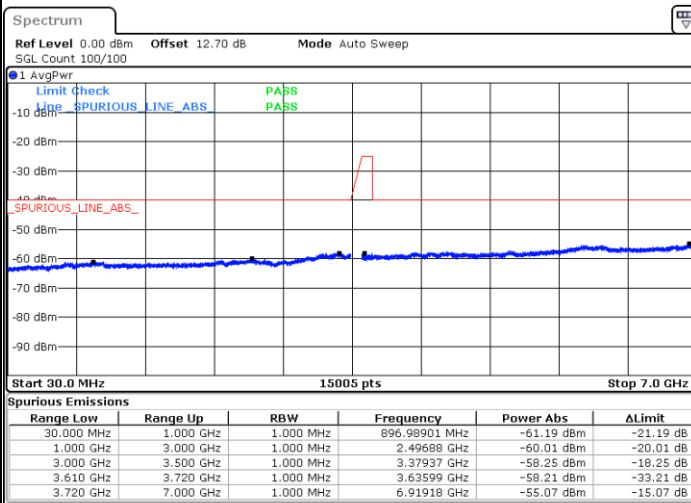
Date: 6.DEC.2025 12:45:19



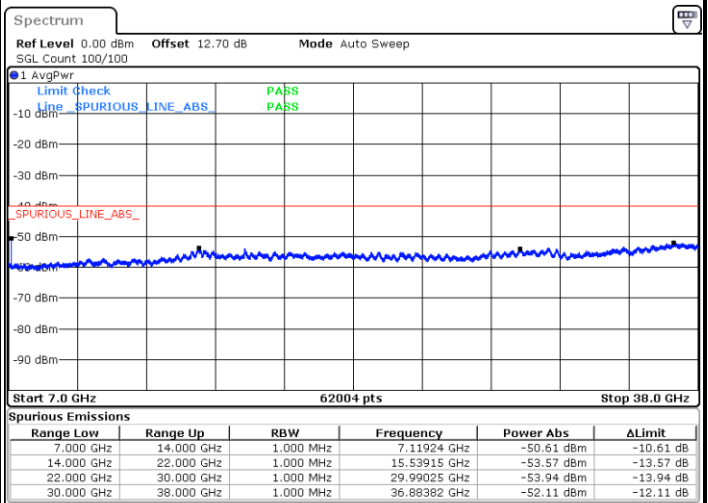
Date: 14.DEC.2025 02:12:49

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB49 and 1RB0



Date: 6.DEC.2025 12:38:57



Date: 14.DEC.2025 02:06:18

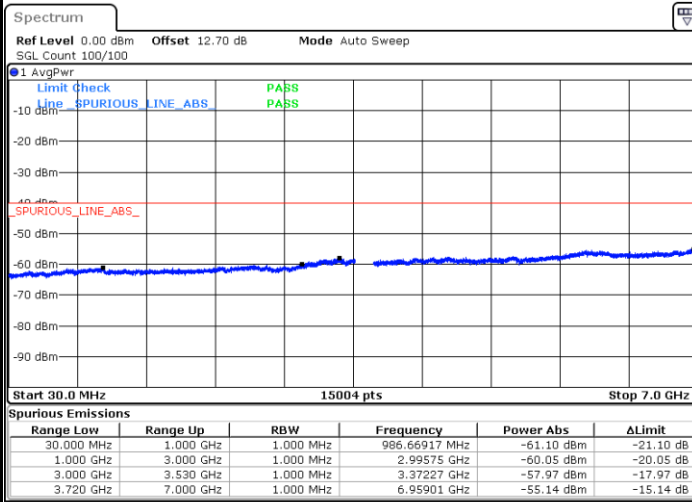


LTE Band 48B / 10MHz+10MHz

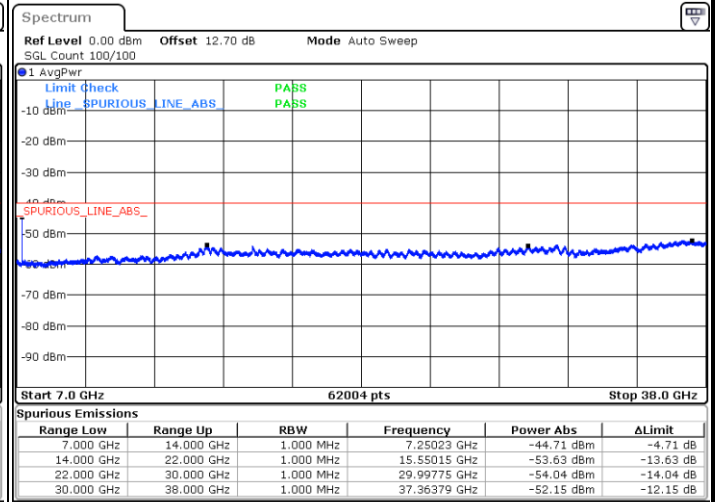
QPSK

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0



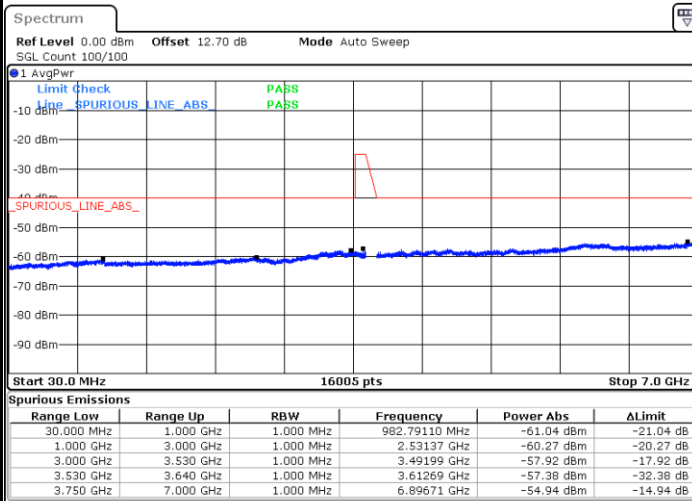
Date: 6.DEC.2025 12:42:46



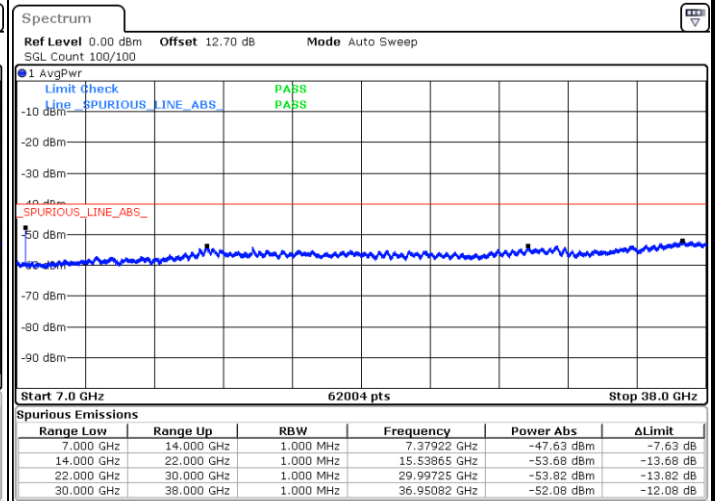
Date: 14.DEC.2025 02:10:15

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0



Date: 6.DEC.2025 12:44:03



Date: 14.DEC.2025 02:11:32



Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	John Chuang, David Dai, and Sam Chou	Relative Humidity(%):	64.6 ~ 70.0
		Temperature(°C):	19.0 ~ 22.2

B1. Summary of each worse mode

Mode	Band	Part	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	AmplCbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
1	LTE B48	Part 96	M	14464	-50.70	RMS	39.33	-22.40	0.53	-95.23	27.07	-40.00	-10.70	H	3
2	LTE CA B48C	Part 96	M	14503	-51.39	RMS	39.41	-22.43	0.53	-95.23	26.33	-40.00	-11.39	V	3
6	LTE CA B48B	Part 96	L	14240	-51.51	RMS	40.14	-22.27	0.56	-95.23	25.29	-40.00	-11.51	V	3

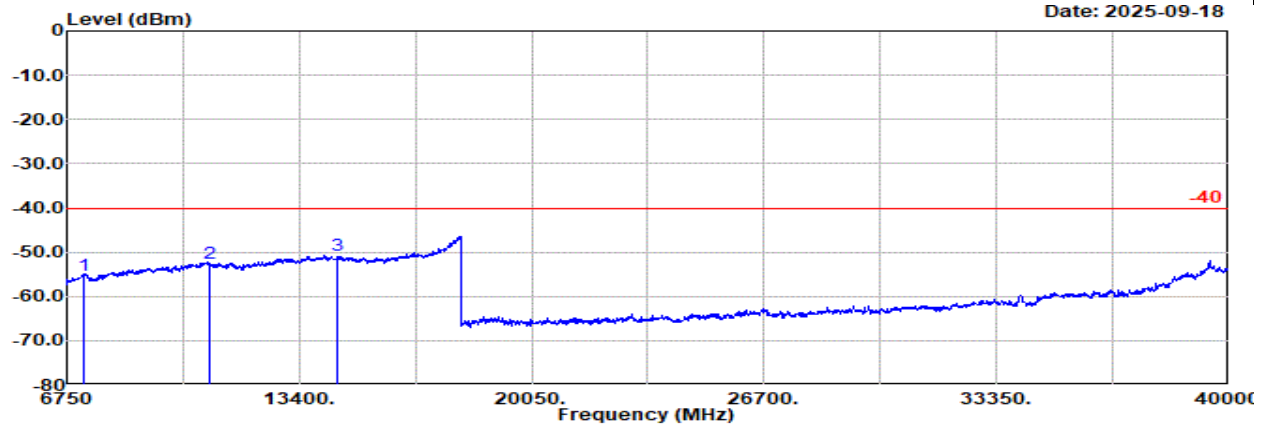


Ant 3

Part 96 Mode 1

LTE B48 20M Ch55990 1RB0 QPSK

M

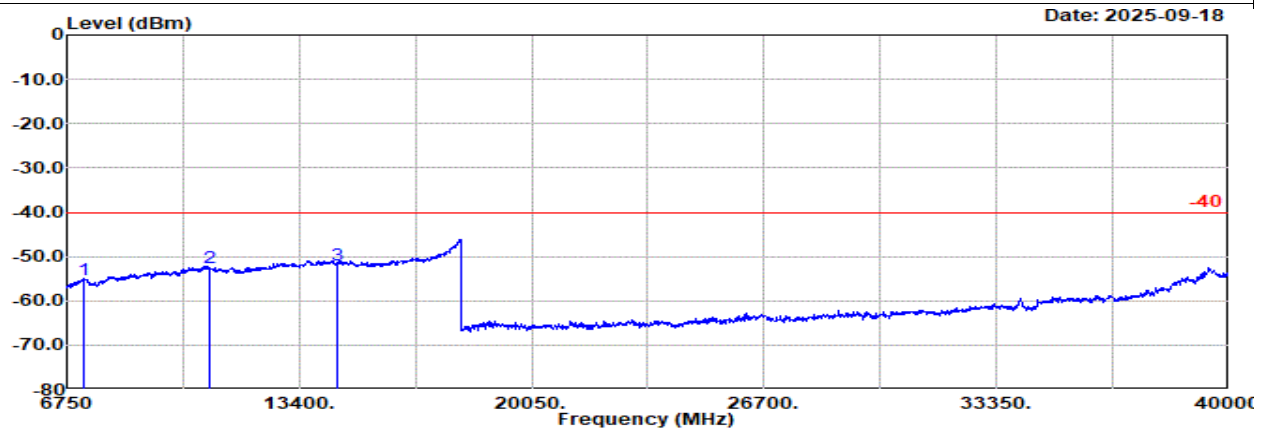


Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Horizontal

: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq MHz	Level dBm	Detector	Ant Amp\Cb		Filter	EIRPCF	Readin g	Limit	Margin	Pol
				Factor	1						
1	7232.00	-55.38	RMS	36.90	-23.13	0.93	-95.23	25.15	-40.00	-15.38	Horizontal
2	10848.00	-52.45	RMS	39.11	-22.94	0.66	-95.23	25.95	-40.00	-12.45	Horizontal
3	14464.00	-50.70	RMS	39.33	-22.40	0.53	-95.23	27.07	-40.00	-10.70	Horizontal



Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Vertical

: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq MHz	Level dBm	Detector	Ant Amp\Cb		Filter	EIRPCF	Readin g	Limit	Margin	Pol
				Factor	1						
1	7232.00	-55.12	RMS	36.90	-23.13	0.93	-95.23	25.41	-40.00	-15.12	Vertical
2	10848.00	-52.67	RMS	39.11	-22.94	0.66	-95.23	25.73	-40.00	-12.67	Vertical
3	14464.00	-51.87	RMS	39.33	-22.40	0.53	-95.23	25.90	-40.00	-11.87	Vertical

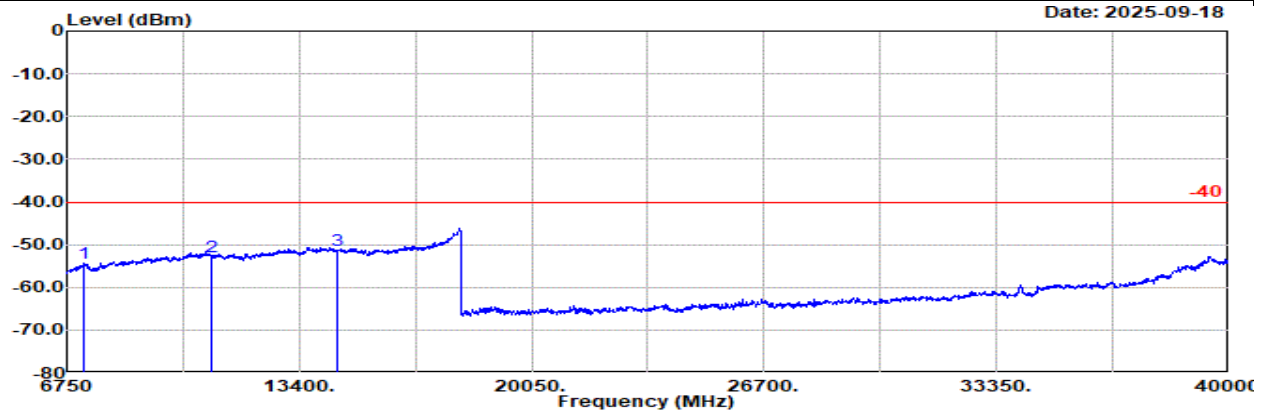


Ant 3

Part 96 Mode 2

LTE CA B48C 20M + 20M Ch55891 1RB99 QPSK + Ch56089 1RB0 QPSK

M



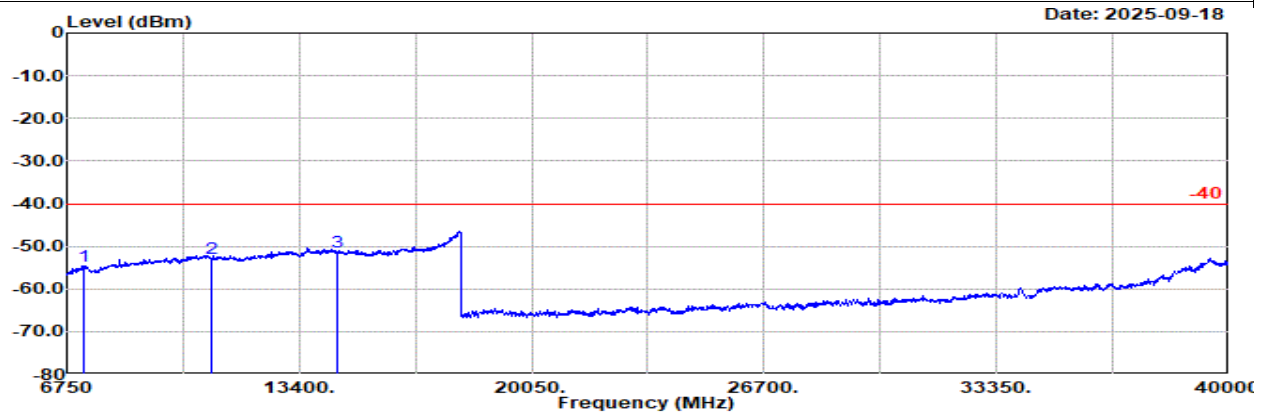
Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Horizontal

: LTE Band 48 20M Ch55891 1RB99 QPSK

: LTE Band 48 20M Ch56089 1RB0 QPSK

	Freq	Level	Detector	Ant		Filter	Readin		Limit	Margin	Pol
				Factor	Amp\Cb		EIRPCF	g			
	MHz	dBm			1						
1	7251.00	-54.22	RMS	36.90	-23.13	0.92	-95.23	26.32	-40.00	-14.22	Horizontal
2	10877.00	-52.88	RMS	39.05	-22.94	0.65	-95.23	25.59	-40.00	-12.88	Horizontal
3	14503.00	-51.46	RMS	39.41	-22.43	0.53	-95.23	26.26	-40.00	-11.46	Horizontal



Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Vertical

: LTE Band 48 20M Ch55891 1RB99 QPSK

: LTE Band 48 20M Ch56089 1RB0 QPSK

	Freq	Level	Detector	Ant		Filter	Readin		Limit	Margin	Pol
				Factor	Amp\Cb		EIRPCF	g			
	MHz	dBm			1						
1	7251.00	-54.78	RMS	36.90	-23.13	0.92	-95.23	25.76	-40.00	-14.78	Vertical
2	10877.00	-52.96	RMS	39.05	-22.94	0.65	-95.23	25.51	-40.00	-12.96	Vertical
3	14503.00	-51.39	RMS	39.41	-22.43	0.53	-95.23	26.33	-40.00	-11.39	Vertical

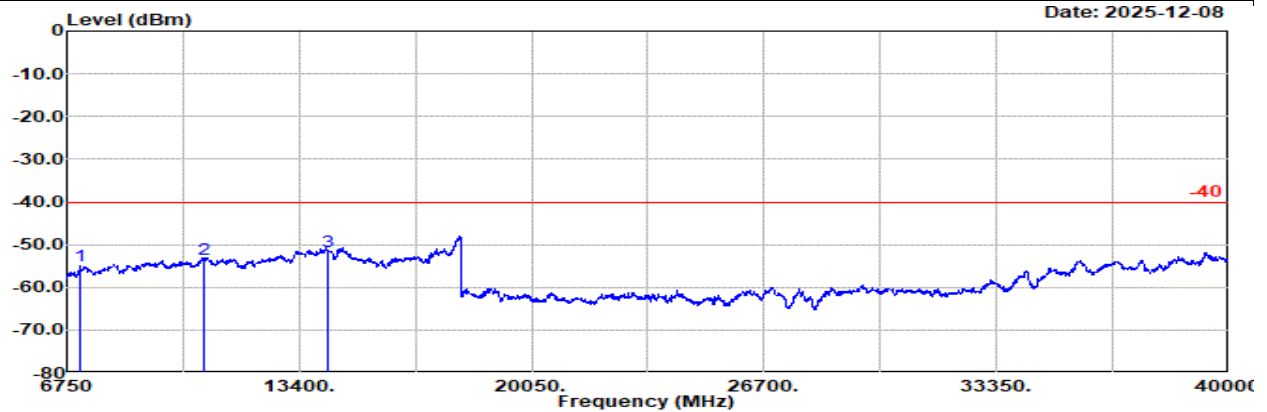


Ant 3

Part 96 Mode 6

LTE CA B48B 10M + 10M Ch55290 1RB49 QPSK + Ch55389 1RB0 QPSK

L



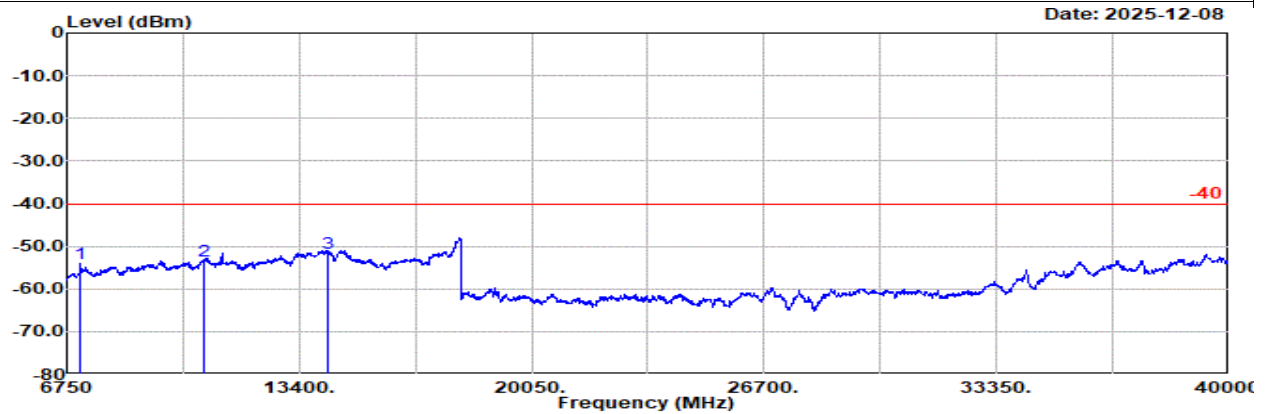
Site : 03CH20-HY

Condition: -40 1m BBHA9170_1225_250702 Horizontal

: LTE B48 10M Ch55290 1RB49 QPSK

: LTE B48 10M Ch55389 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dBuV	dBm	dB	
1	7120.00	-54.95	RMS		36.52	-22.90	1.09	-95.23	25.57	-40.00	-14.95 Horizontal
2	10680.00	-53.38	RMS		39.14	-22.82	0.45	-95.23	25.08	-40.00	-13.38 Horizontal
3	14240.00	-51.72	RMS		40.14	-22.27	0.56	-95.23	25.08	-40.00	-11.72 Horizontal



Site : 03CH20-HY

Condition: -40 1m BBHA9170_1225_250702 Vertical

: LTE B48 10M Ch55290 1RB49 QPSK

: LTE B48 10M Ch55389 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb l	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7120.00	-54.07	RMS	36.52	-22.90	1.09	-95.23	26.45	-40.00	-14.07	Vertical
2	10680.00	-53.39	RMS	39.14	-22.82	0.45	-95.23	25.07	-40.00	-13.39	Vertical
3	14240.00	-51.51	RMS	40.14	-22.27	0.56	-95.23	25.29	-40.00	-11.51	Vertical

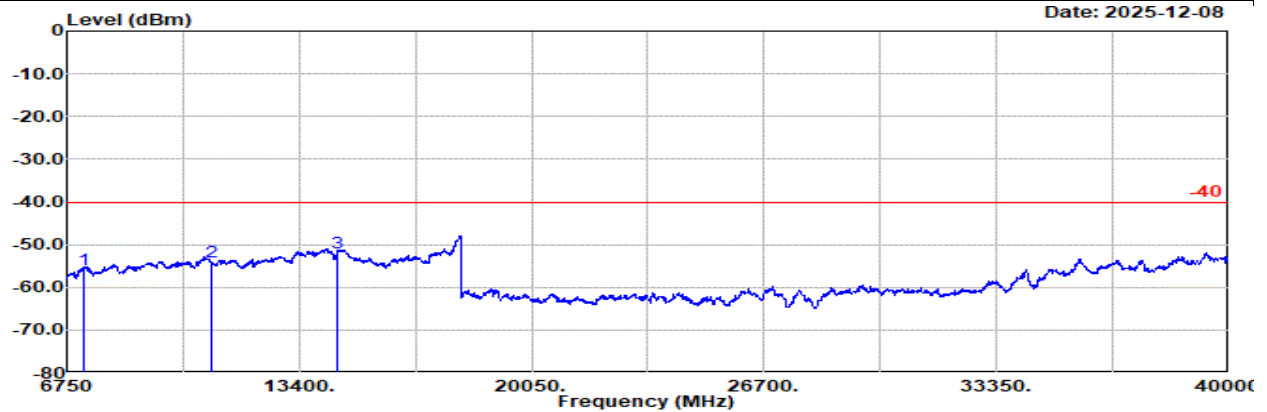


Ant 3

Part 96 Mode 6

LTE CA B48B 10M + 10M Ch55945 1RB49 QPSK + Ch56044 1RB0 QPSK

M



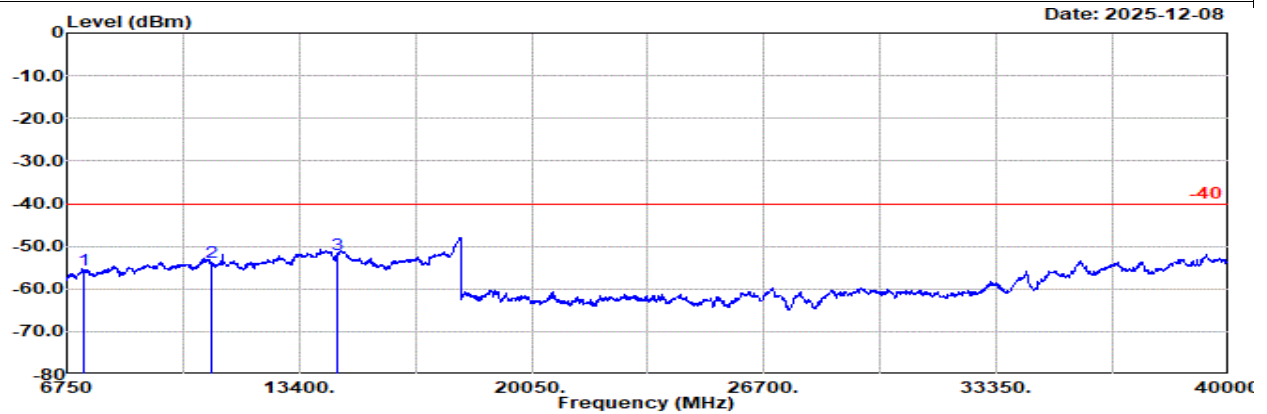
Site : 03CH20-HY

Condition: -40 1m BBHA9170_1225_250702 Horizontal

: LTE B48 10M Ch55945 1RB49 QPSK

: LTE B48 10M Ch56044 1RB0 QPSK

	Freq	Level	Detector	Ant		Filter	Readin		Limit	Margin	Pol
				Factor	Amp\Cb		EIRPCF	g			
	MHz	dBm			1						
1	7251.00	-55.79	RMS	37.00	-22.88	0.97	-95.23	24.35	-40.00	-15.79	Horizontal
2	10876.00	-54.15	RMS	39.05	-22.79	0.44	-95.23	24.38	-40.00	-14.15	Horizontal
3	14502.00	-51.84	RMS	40.10	-22.32	0.51	-95.23	25.10	-40.00	-11.84	Horizontal



Site : 03CH20-HY

Condition: -40 1m BBHA9170_1225_250702 Vertical

: LTE B48 10M Ch55945 1RB49 QPSK

: LTE B48 10M Ch56044 1RB0 QPSK

	Freq	Level	Detector	Ant		Filter	Readin		Limit	Margin	Pol
				Factor	Amp\Cb		EIRPCF	g			
	MHz	dBm			1						
1	7251.00	-55.43	RMS	37.00	-22.88	0.97	-95.23	24.71	-40.00	-15.43	Vertical
2	10876.00	-53.79	RMS	39.05	-22.79	0.44	-95.23	24.74	-40.00	-13.79	Vertical
3	14502.00	-52.07	RMS	40.10	-22.32	0.51	-95.23	24.87	-40.00	-12.07	Vertical

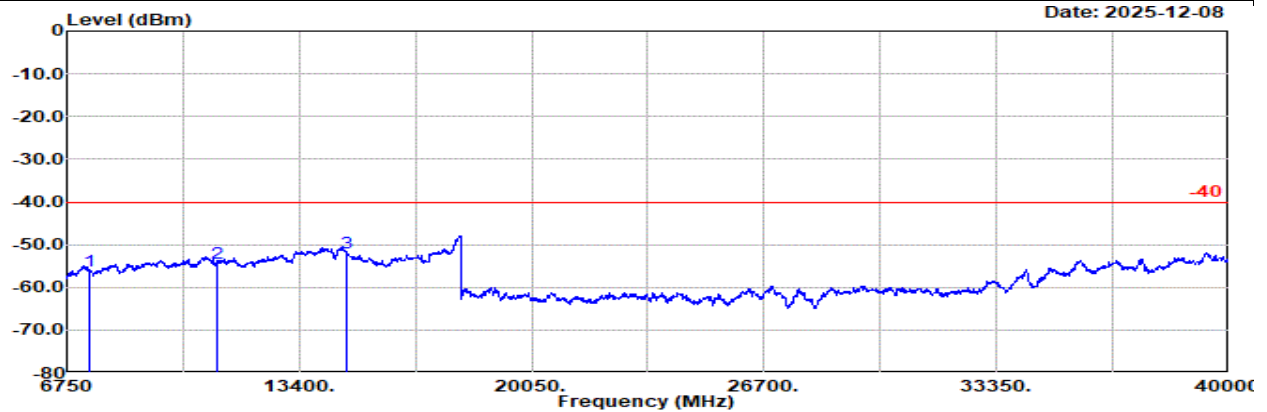


Ant 3

Part 96 Mode 6

LTE CA B48B 10M + 10M Ch56591 1RB49 QPSK + Ch56690 1RB0 QPSK

H



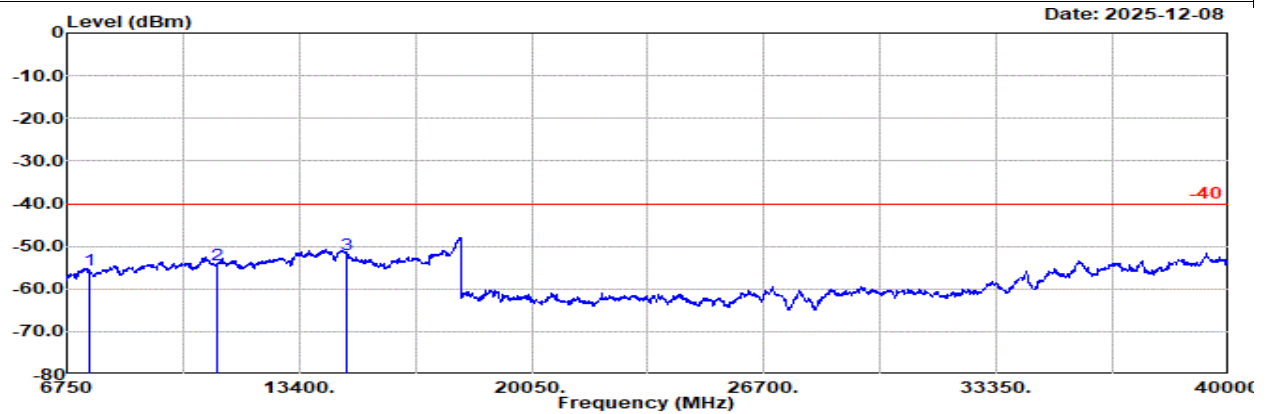
Site : 03CH20-HY

Condition: -40 1m BBHA9170_1225_250702 Horizontal

: LTE B48 10M Ch56591 1RB49 QPSK

: LTE B48 10M Ch56690 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF		Readin g	Limit	Margin	Pol
					dB/m	dB		dB	dB				
1	7380.00	-56.11	RMS		36.48	-22.86	0.80	-95.23		24.70	-40.00	-16.11	Horizontal
2	11070.00	-54.44	RMS		38.90	-22.80	0.43	-95.23		24.26	-40.00	-14.44	Horizontal
3	14760.00	-51.98	RMS		39.90	-22.45	0.46	-95.23		25.34	-40.00	-11.98	Horizontal



Site : 03CH20-HY

Condition: -40 1m BBHA9170_1225_250702 Vertical

: LTE B48 10M Ch56591 1RB49 QPSK

: LTE B48 10M Ch56690 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF		Readin g	Limit	Margin	Pol
					dB/m	dB		dB	dB				
1	7380.00	-55.62	RMS		36.48	-22.86	0.80	-95.23		25.19	-40.00	-15.62	Vertical
2	11070.00	-54.35	RMS		38.90	-22.80	0.43	-95.23		24.35	-40.00	-14.35	Vertical
3	14760.00	-51.92	RMS		39.90	-22.45	0.46	-95.23		25.40	-40.00	-11.92	Vertical

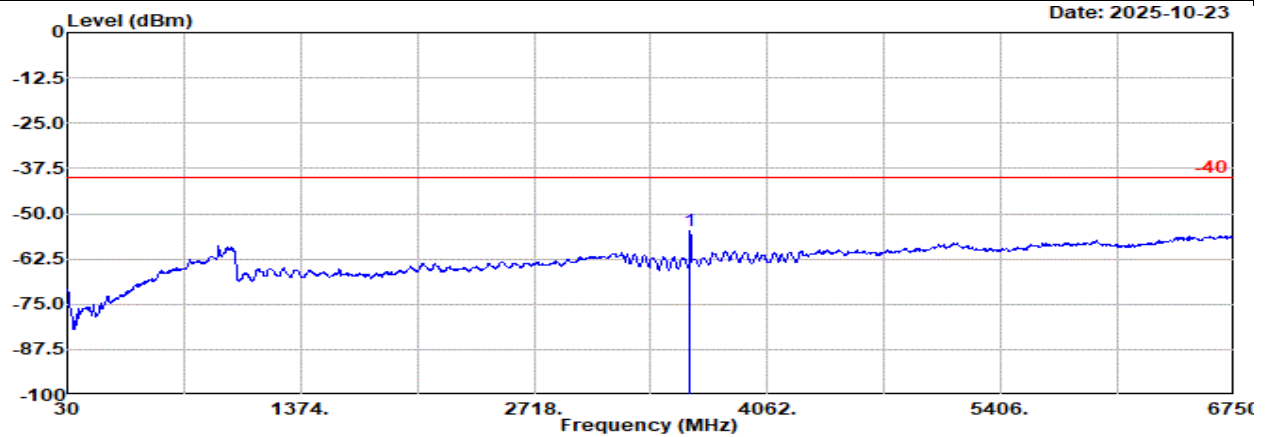


Ant 3

Part 96 Mode 1

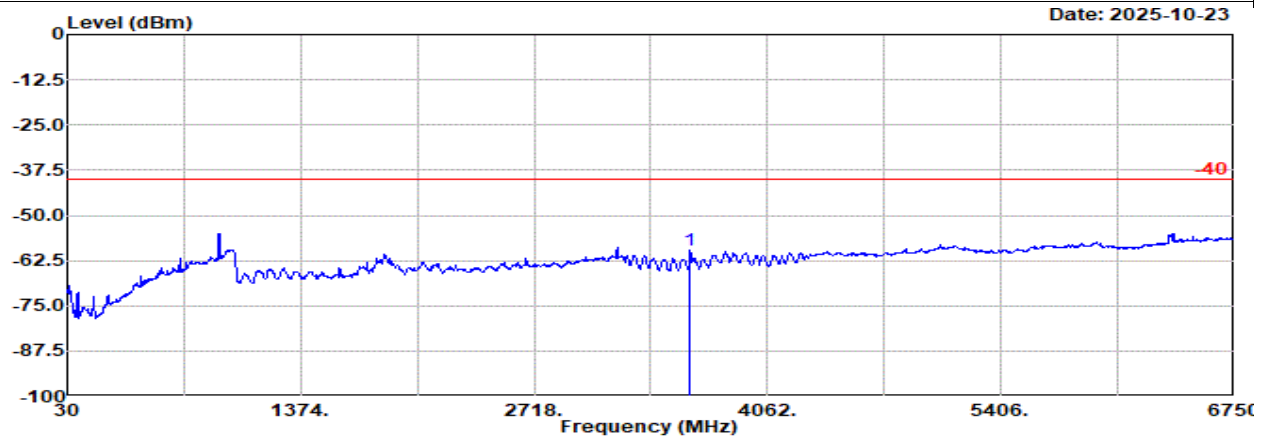
LTE B48 20M Ch55990 1RB0 QPSK

M



Site : 03CH20-HY
Condition: -40 3m HF_9120D_02360_241101 Horizontal
: LTE Band 48 20M Ch55990 1RB0 QPSK
: #1 is fundamental signal can be ignored

	Freq	Level	Detector	Ant Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
				Factor	1						
	MHz	dBm				dB	dB	dBuV	dBm	dB	
1	3616.25	-54.83	RMS	29.60	-25.64	0.00	-95.23	36.44	-40.00	-14.83	Horizontal



Site : 03CH20-HY
Condition: -40 3m HF_9120D_02360_241101 Vertical
: LTE Band 48 20M Ch55990 1RB0 QPSK
: #1 is fundamental signal can be ignored

	Freq	Level	Detector	Ant Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
				Factor	1						
	MHz	dBm				dB	dB	dBuV	dBm	dB	
1	3616.25	-59.67	RMS	29.60	-25.64	0.00	-95.23	31.60	-40.00	-19.67	Vertical