

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 96
47 CFR FCC Part 2

Report No.: RFCDVB-WTW-P25100255-1

FCC ID: QYLEM7595G14

Product: Radio Module

Brand: Getac

Model No.: EM7595G14

Received Date: 2025/10/13

Test Date: 2025/11/12 ~ 2026/1/13

Issued Date: 2026/1/15

Applicant: Getac Technology Corporation.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 788550 / TW0003

Designation Number:

Approved by: Jeremy Lin , **Date:** 2026/1/15
Jeremy Lin / Project Engineer

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Prepared by : Vera Huang / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFCDVB-WTW-P25100255-1	Original Release	2026/1/15

1 Certificate

Product: Radio Module

Brand: Getac

Test Model: EM7595G14

Sample Status: Engineering sample

Applicant: Getac Technology Corporation.

Test Date: 2025/11/12 ~ 2026/1/13

Standard: 47 CFR FCC Part 96
47 CFR FCC Part 2

Measurement ANSI/TIA/EIA-603-E 2016

procedure: ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

KDB 940660 D01 Part 96 CBRS Eqpt v03

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

Standard / Clause	Test Item	Result	Remark
Part 2.1046 Part 96.41(b)	Maximum EIRP	Pass	Meet the requirement of limit.
Part 2.1047	Modulation Characteristics	N/A	Refer to Note
Part 2.1046 Part 96.41(b)	Maximum Power Spectral Density	N/A	This device is End User Device.
Part 96.41(g)	Peak to Average Ratio	N/A	Refer to Note
Part 2.1049	Bandwidth	N/A	Refer to Note
Part 2.1051 Part 96.41(e)	Conducted Spurious Emissions	N/A	Refer to Note
Part 2.1053 Part 96.41(e)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -4.44 dB at 51.34 MHz
Part 2.1053 Part 96.41(e)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -1.10 dB at 7340.40 MHz
Part 2.1055	Frequency Stability	N/A	Refer to Note

Note:

- Only test item of Maximum EIRP and Radiated Spurious Emissions were performed for this report. Other testing data please refer to WWAN module (FCC ID: N7NEM75Y, based on Reference FCC ID: N7NEM75T) certified report.
- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	Specification	Uncertainty (±)
Effective Radiated Power and Equivalent Isotropically Radiated Power	18 GHz ~ 40 GHz	2.29 dB
	1 GHz ~ 18 GHz	2.29 dB
Radiated Spurious Emissions below 1GHz	9 kHz ~ 30 MHz	3.59 dB
	30 MHz ~ 1 GHz	3.6 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Radio Module
Brand	Getac
Test Model	EM7595G14
Status of EUT	Engineering sample
Power Supply Rating	3.3Vdc from host equipment
EUT Category	End User Device
Modulation Type	QPSK, 16QAM, 64QAM
LTE support band	B48
LTE band support CA mode	48C

Note:

1. The EUT is authorized for use in specific End-product.

Product	Brand	Model	Difference
Tablet	Getac	G140	Marketing purpose
		G140Y (Y= 10 Characters, Y can be 0 to 9, A to Z, a to z, "/", "\", "-", "_ " or blank for marketing purpose)	

2. The End-product uses following accessories.

Item	Brand	Model	Specification
Battery 1	Getac	BP2S1P4070P	Power Rating : 7.74Vdc, 3800mAh, 29.42Wh 4070mAh, 31.51Wh
Battery 2	Getac	BP3S1P4070P	Power Rating : 11.61Vdc, 3800mAh, 44.12Wh 4070mAh, 47.26Wh
AC Adapter 1	FSP	FSP065-RBBN3	AC Input : 100-240Vac, 50-60Hz, 1.5A DC Output : 19.0Vdc, 3.42A, 65.0W DC Output Cable : 1.45M / 1core
AC Adapter 2 (Optional)	Getac	MTA190474W4	AC Input : 100-240Vac, 50-60Hz, 1.6A DC Output : 19.0Vdc, 4.74A, 90.0W
Digitizer Pen	EMRight	GT-090S	-

3. EUT Overview

LTE Band 48 (3.55 GHz ~ 3.7 GHz)

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
5 MHz	3552.5 ~ 3697.5	QPSK	0.182	22.59
		16QAM	0.143	21.56
		64QAM	0.112	20.48
10 MHz	3555 ~ 3695	QPSK	0.183	22.63
		16QAM	0.141	21.49
		64QAM	0.113	20.52
15 MHz	3557.5 ~ 3692.5	QPSK	0.196	22.93
		16QAM	0.15	21.76
		64QAM	0.117	20.68
20 MHz	3560 ~ 3690	QPSK	0.198	22.97
		16QAM	0.146	21.64
		64QAM	0.115	20.62

LTE Band 48C (3.55 GHz ~ 3.7 GHz)

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
20 MHz + 20 MHz	3560 ~ 3690	QPSK	0.189	22.77
		16QAM	0.155	21.89
		64QAM	0.125	20.96
20 MHz + 15 MHz	3560 ~ 3692.2	QPSK	0.196	22.93
		16QAM	0.160	22.04
		64QAM	0.129	21.11
15 MHz + 20 MHz	3557.8 ~ 3690	QPSK	0.196	22.93
		16QAM	0.160	22.05
		64QAM	0.129	21.1
20 MHz + 10 MHz	3560 ~ 3694.5	QPSK	0.193	22.86
		16QAM	0.158	22
		64QAM	0.130	21.13
10 MHz + 20 MHz	3555.5 ~ 3690	QPSK	0.196	22.93
		16QAM	0.159	22.02
		64QAM	0.129	21.11
20 MHz + 5 MHz	3560 ~ 3696.7	QPSK	0.193	22.85
		16QAM	0.158	21.98
		64QAM	0.128	21.07
5 MHz + 20 MHz	3553.3 ~ 3565	QPSK	0.195	22.89
		16QAM	0.159	22.02
		64QAM	0.130	21.13

4. The EUT support the following CA Configuration.

Band Configuration
48C

5. E-UTRA CA configuration / Bandwidth combination set.

E-UTRA CA configuration / Bandwidth combination set		
E-UTRA CA Configuration	Component carriers in order of increasing carrier frequency Channel bandwidth for PCC and SCC [MHz]	Maximum aggregated bandwidth [MHz]
CA_48C	20+5 / 5+20	25
	20+10 / 10+20	30
	20+15 / 15+20	35
	20+20	40

* For CA mode configuration, please consult the manufacturer to declare the test mode.

* 48C is continuous CA and maximum combination is 20M+20M.

6. For detailed information about each WWAN bands frequency range, bandwidth mode of the product, please refer to section 3.3 of the report.

7. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Ant. 0		Ant. 1	
Antenna Type	PIFA	Antenna Type	PIFA
Connector Type	I-PEX	Connector Type	I-PEX
Brand	AWAN	Brand	AWAN
Model	422GC2400001	Model	422GC2400002

Band		Freq. Range	Ant. 0 Gain (dBi)	Ant. 1 Gain (dBi)
WCDMA II	1TX (Ant. 0)	1850 ~ 1910	1.22	-2.18
WCDMA IV	1TX (Ant. 0)	1710 ~ 1755	1.73	-4.30
WCDMA V	1TX (Ant. 0)	824 ~ 849	0.77	-2.65
LTE Band 2	1TX (Ant. 0)	1850 ~ 1910	1.22	-2.18
LTE Band 4	1TX (Ant. 0)	1710 ~ 1755	1.73	-4.30
LTE Band 5	1TX (Ant. 0)	824 ~ 849	0.77	-2.65
LTE Band 7	1TX (Ant. 0)	2500 ~ 2570	2.03	1.32
LTE Band 12	1TX (Ant. 0)	698 ~ 716	-1.13	-6.04
LTE Band 13	1TX (Ant. 0)	777 ~ 787	-0.51	-4.52
LTE Band 14	1TX (Ant. 0)	788 ~ 798	-0.30	-4.61
LTE Band 25	1TX (Ant. 0)	1850 ~ 1915	1.22	-2.18
LTE Band 26	1TX (Ant. 0)	814 ~ 849	0.77	-2.65
LTE Band 41	1TX (Ant. 0)	2496 ~ 2690	2.03	1.46
LTE Band 48	1TX (Ant. 0)	3550 ~ 3700	1.99	3.12
LTE Band 66	1TX (Ant. 0)	1710 ~ 1780	1.73	-4.3
LTE Band 71	1TX (Ant. 0)	663 ~ 698	-1.32	-6.36
LTE Band 106	1TX (Ant. 0)	896 ~ 901	0.01	-2.26

* The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The EUT has the following Battery: Battery 1 / Battery 2. Pre-scan these batteries and find the worst case as a representative test condition. 2. The EUT has the following AC Adapter: AC Adapter 1 / AC Adapter 2. Pre-scan these AC Adapters and find the worst case as a representative test condition. 3. EUT can be used in the following ways: X-axis / Y-axis / Z-axis. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	1. Battery Worst Condition: Battery 2 2. AC Adapter Worst Condition: AC Adapter 1 3. X-axis / Y-axis / Z-axis Worst Condition: X-axis

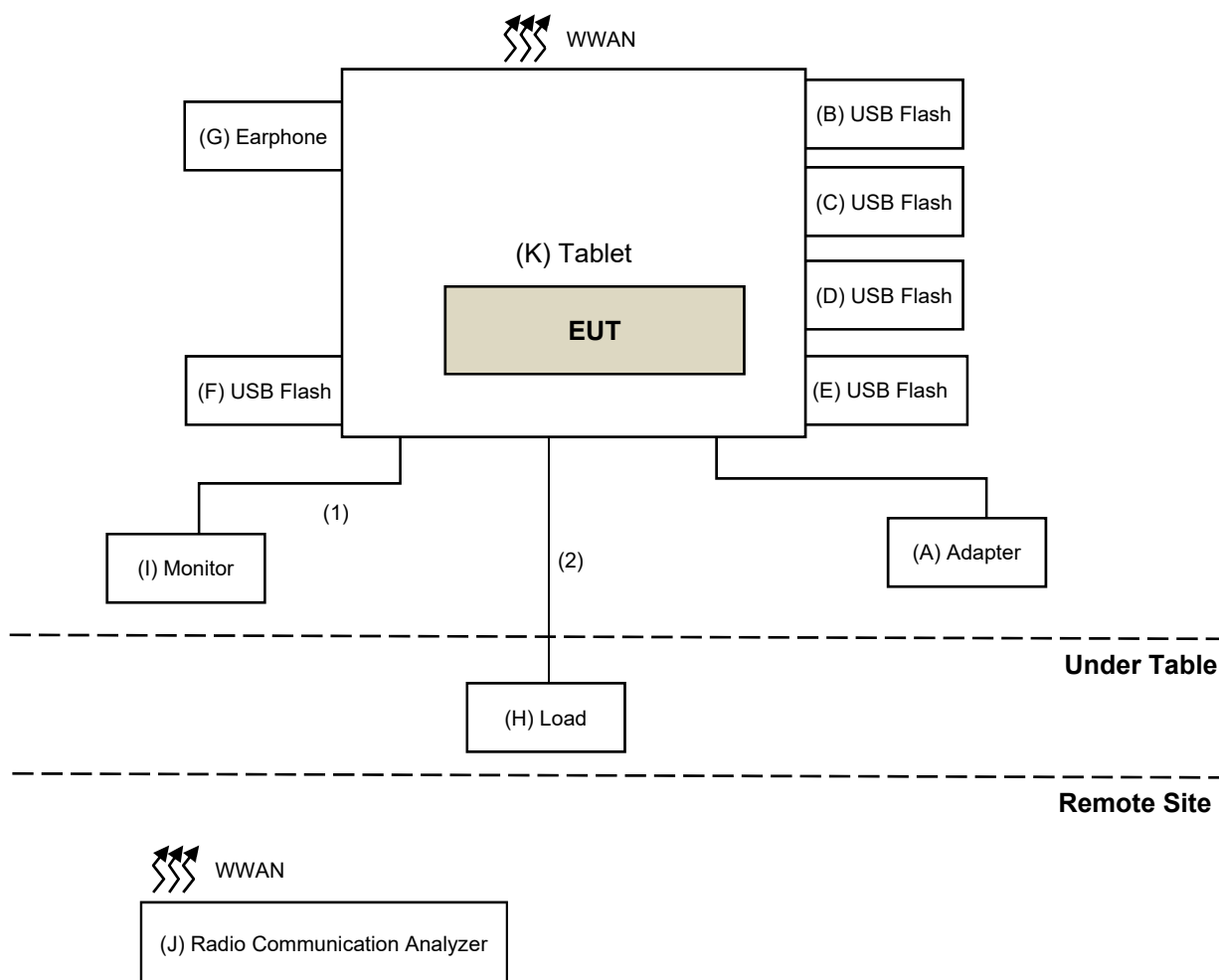
3.3.1 LTE Band 48 / LTE Band 48C (3.55 GHz ~ 3.7 GHz)

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
Maximum EIRP	55265(3552.50 MHz) 55990(3625.00 MHz) 56715(3697.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM	1 RB
	55290(3555.00 MHz) 55990(3625.00 MHz) 56690(3695.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM	1 RB
	55315(3557.50 MHz) 55990(3625.00 MHz) 56665(3692.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM	1 RB
	55340(3560.00 MHz) 55990(3625.00 MHz) 56640(3690.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM	1 RB
	55340(3560.00 MHz) + 55538(3579.80 MHz) 55891(3615.10 MHz) + 56089(3634.90 MHz) 56442(3670.20 MHz) + 56640(3690.00 MHz)	20 MHz + 20 MHz	QPSK / 16QAM / 64QAM	1 RB
	55340(3560.00 MHz) + 55511(3577.10 MHz) 55916(3617.60 MHz) + 56087(3634.70 MHz) 56491(3675.10 MHz) + 56662(3692.20 MHz)	20 MHz + 15 MHz	QPSK / 16QAM / 64QAM	1 RB
	55318(3557.80 MHz) + 55489(3574.90 MHz) 55893(3615.30 MHz) + 56064(3632.40 MHz) 56469(3672.90 MHz) + 56640(3690.00 MHz)	15 MHz + 20 MHz	QPSK / 16QAM / 64QAM	1 RB
	55340(3560.00 MHz) + 55484(3574.40 MHz) 55941(3620.10 MHz) + 56085(3634.50 MHz) 56541(3680.10 MHz) + 56685(3694.50 MHz)	20 MHz + 10 MHz	QPSK / 16QAM / 64QAM	1 RB
	55295(3555.50 MHz) + 55439(3569.90 MHz) 55896(3615.60 MHz) + 56040(3630.00 MHz) 56496(3675.60 MHz) + 56640(3690.00 MHz)	10 MHz + 20 MHz	QPSK / 16QAM / 64QAM	1 RB
	55340(3560.00 MHz) + 55457(3571.70 MHz) 55965(3622.50 MHz) + 56082(3634.20 MHz) 56590(3685.00 MHz) + 56707(3696.70 MHz)	20 MHz + 5 MHz	QPSK / 16QAM / 64QAM	1 RB
	55273(3553.30 MHz) + 55390(3565.00 MHz) 55898(3615.80 MHz) + 56015(3627.50 MHz) 56523(3678.30 MHz) + 56640(3690.00 MHz)	5 MHz + 20 MHz	QPSK / 16QAM / 64QAM	1 RB
Radiated Spurious Emissions below 1GHz	55990(3625.00 MHz)	20 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	55990(3625.00 MHz)	20 MHz	QPSK	1 RB
	56442(3670.20 MHz) + 56640(3690.00 MHz)	20 MHz + 20 MHz	QPSK	1 RB

3.4 Test Program Used and Operation Descriptions

There is no need to controlling software during the test, and the EUT can be paired with the Radio Communication Analyzer to test the connection when it is powered on.

3.5 Connection Diagram of EUT and Peripheral Devices



3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	FSP	FSP065-RBBN3	N/A	N/A	Supplied by applicant
B	USB Flash	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
C	USB Flash	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
D	USB Flash	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
E	USB Flash	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
F	USB Flash	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
G	Earphone	APPLE	MB77PFEB	N/A	N/A	Provided by Lab
H	Load	N/A	N/A	N/A	N/A	Provided by Lab
I	Monitor	DELL	A14S2421HSXmTW	CN-01KFWF- WSL00-24C-714B	N/A	Provided by Lab
J	Radio Communication Analyzer	Anritsu	MT8821C	6201462755	N/A	Provided by Lab
K	Tablet	Getac	G140	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	HDMI Cable	1	1.5	Yes	0	Provided by Lab
2	RJ-45 Cable	1	1.5	No	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Maximum EIRP

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn BV ADT	AT100	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1169	2025/11/9	2026/11/8
	BBHA 9170	9170-480	2025/11/9	2026/11/8
		BBHA9170243	2025/11/9	2026/11/8
Preamplifier Agilent	8449B	3008A02367	2025/1/5 2026/1/3	2026/1/4 2027/1/2
Preamplifier EMCI	EMC 184045	980116	2025/9/21	2026/9/20
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2025/4/8	2026/4/7
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2025/6/30	2026/6/29
	EMC102-KM-KM-3000	150929	2025/6/30	2026/6/29
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2025/1/5 2026/1/3	2026/1/4 2027/1/2
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2025/1/5 2026/1/3	2026/1/4 2027/1/2
Signal & Spectrum Analyzer R&S	FSW43	101866	2025/3/25	2026/3/24
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2025/11/27 ~ 2026/1/13

4.2 Radiated Spurious Emissions below 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn BV ADT	AT100	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-160	2025/9/16	2026/9/15
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
Preamplifier Agilent	8447D	2944A10638	2025/4/27	2026/4/26
Preamplifier EMCI	EMC001340	980201	2025/9/21	2026/9/20
RF Coaxial Cable Woken	8D-FB	Cable-CH9-01	2025/4/27	2026/4/26
Signal & Spectrum Analyzer R&S	FSW43	101866	2025/3/25	2026/3/24
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2025/11/14

4.3 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn BV ADT	AT100	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1169	2025/11/9	2026/11/8
	BBHA 9170	9170-480	2025/11/9	2026/11/8
		BBHA9170243	2025/11/9	2026/11/8
Preamplifier Agilent	8449B	3008A02367	2025/1/5	2026/1/4
Preamplifier EMCI	EMC 184045	980116	2025/9/21	2026/9/20
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2025/6/30	2026/6/29
	EMC102-KM-KM-3000	150929	2025/6/30	2026/6/29
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2025/1/5	2026/1/4
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2025/1/5	2026/1/4
Signal & Spectrum Analyzer R&S	FSW43	101866	2025/3/25	2026/3/24
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2025/11/12 ~ 2025/11/27

5 Limits of Test Items

5.1 Maximum EIRP

For LTE Band 48 / LTE Band 48C (3.55 GHz ~ 3.7 GHz):

Device Category	Maximum EIRP (dBm/10 MHz)
End User Device	23
Category A CBSD	30
Category B CBSD	47

5.2 Radiated Spurious Emissions below 1GHz

For LTE Band 48 / LTE Band 48C (3.55 GHz ~ 3.7 GHz):

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

5.3 Radiated Spurious Emissions above 1GHz

For LTE Band 48 / LTE Band 48C (3.55 GHz ~ 3.7 GHz):

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

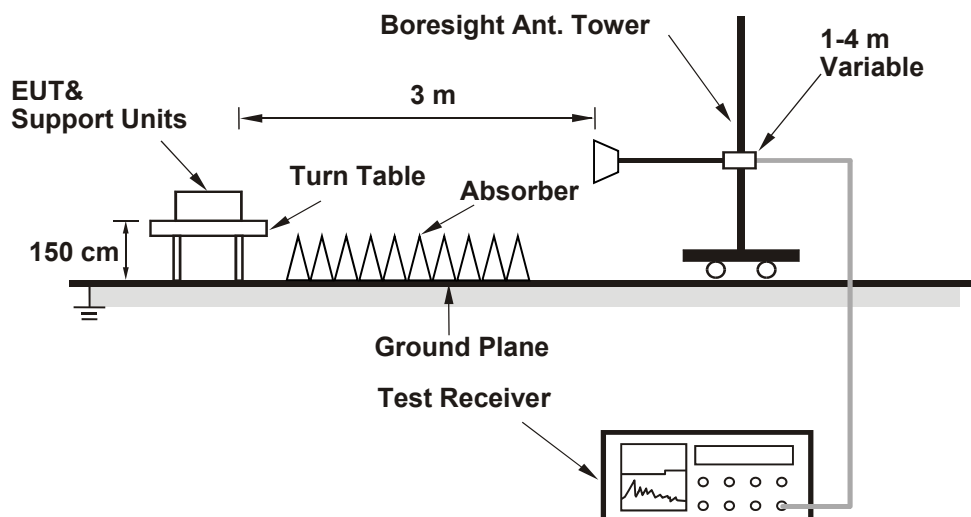
6 Test Arrangements

6.1 Maximum EIRP

6.1.1 Test Setup

Radiated Power EIRP / ERP Measurement:

For Radiated Emission above 1 GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.1.2 Test Procedure

Radiated Power EIRP / ERP Measurement:

The EUT is configured by emulator to set data modulation and maximum power using WWAN technology.

Set the EUT to transmit under low, middle and high channel and record the power level shown on spectrum analyzer.

- In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, 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 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
 - The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
 - Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
 - Following C63.26 section 5.5 and 5.2.7. Set the detector to power averaging (rms) detector.
- EIRP (dBm) = $E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
 - ERP (dBm) = $E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

Spectrum analyzer setting as below:

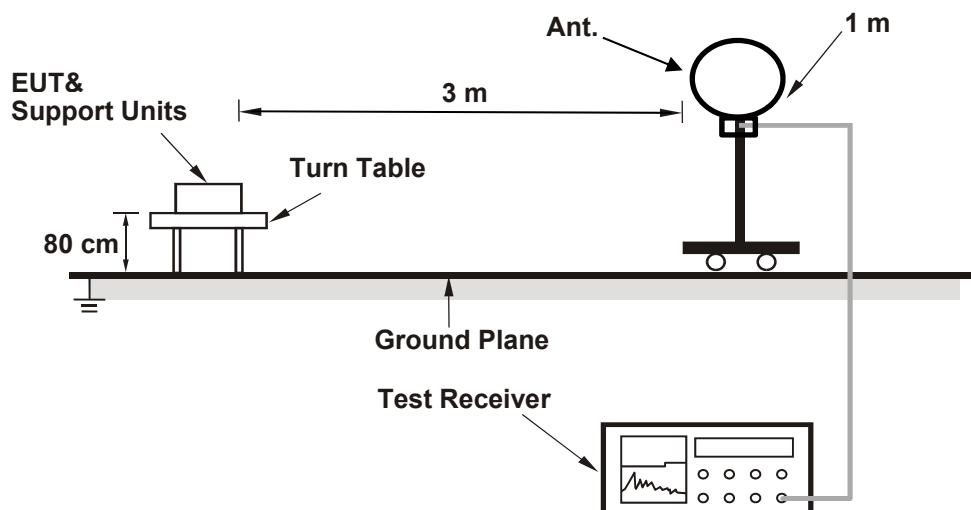
Measurement method refers to ANSI C63.26 section 5.2.4.4.

- a. Set span to $2 \times$ to $3 \times$ the OBW.
- b. Set RBW = 1% to 5% of the OBW.
- c. Set VBW $\geq 3 \times$ RBW.
- d. Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
- e. Set Sweep time = auto-couple.
- f. Detector = power averaging (rms).
- g. Set sweep trigger to "free run."
- h. Trace average at least 100 traces in power averaging (rms) mode.
- i. Use the Band/Channel Power function to determine the integrated power per 10 MHz bandwidth and full bandwidth, according to the 47 CFR FCC Part 96 standard.
- j. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function with band/channel limits set equal to the OBW band edges.
- k. If Duty cycle < 98%, Add $10 \log (1/\text{duty cycle})$ to the measured power level to compute the average power during continuous transmission.

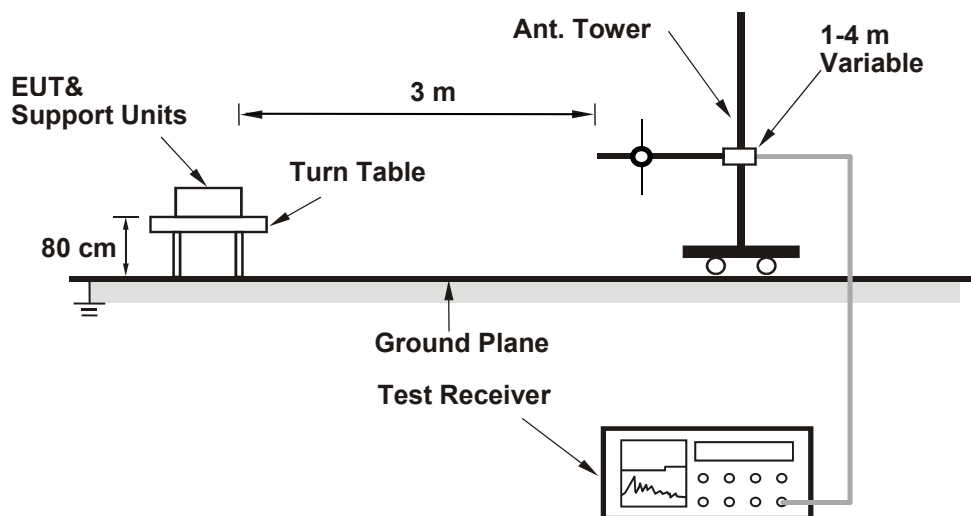
6.2 Radiated Spurious Emissions below 1GHz

6.2.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.2.2 Test Procedure

The EUT is configured to set data modulation and maximum power using WWAN technology.

- a. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) height of turn table, 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 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- d. Following ANSI C63.26 section 5.5 and 5.2.7
- e. $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- f. $ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

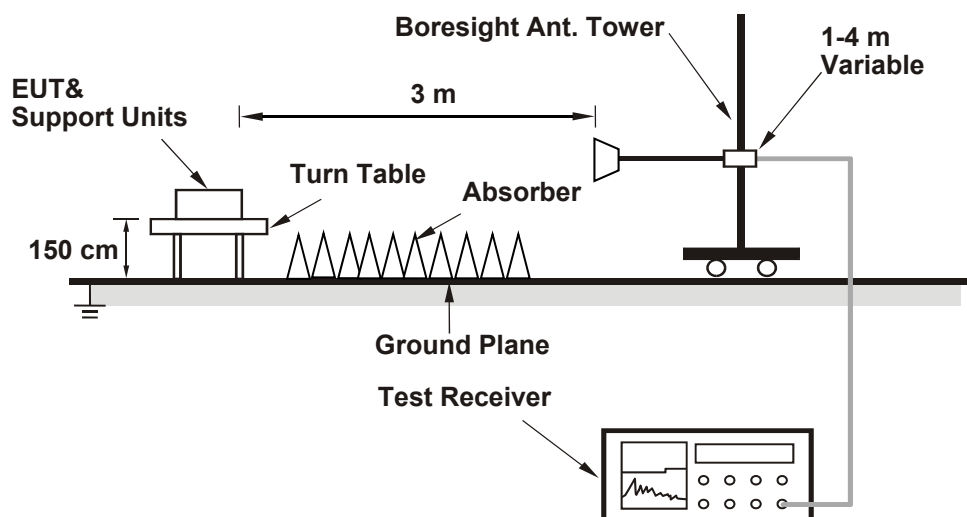
Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.
2. The amplitude of spurious emissions in the range 9 kHz to 30 MHz which are attenuated more than 20 dB below the permissible value need not be reported.

6.3 Radiated Spurious Emissions above 1GHz

6.3.1 Test Setup

For radiated emission above 1 GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.3.2 Test Procedure

The EUT is configured to set data modulation and maximum power using WWAN technology.

- In the semi-anechoic chamber, EUT placed on the 1.5 m height of turn table, 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 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- Following ANSI C63.26 section 5.5 and 5.2.7
- $EIRP \text{ (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- $ERP \text{ (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.

7 Test Results of Test Item

7.1 Maximum EIRP

Environmental Conditions:	25°C, 60% RH	Tested By:	Rex Wang
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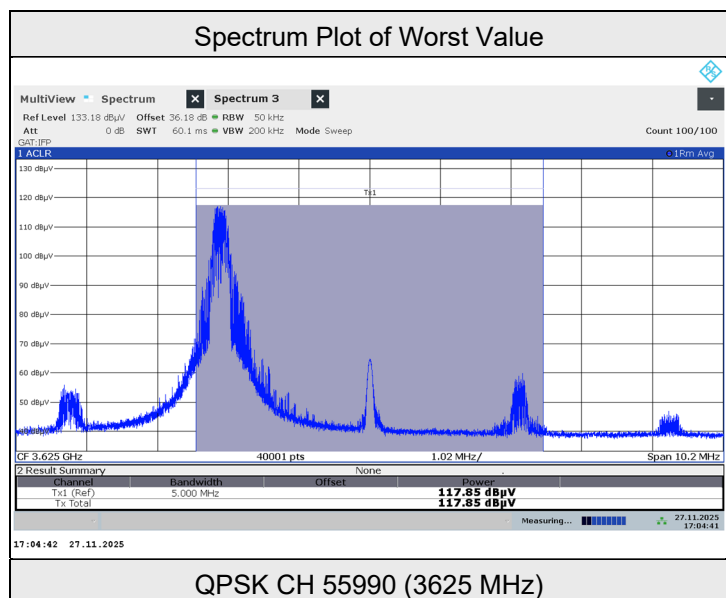
7.1.1 LTE Band 48 (3.55 GHz ~ 3.7 GHz)

LTE Band 48 (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 5 MHz

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55265	3552.5	117.78	-95.26	178.649	22.52	23
	55990	3625	117.85	-95.26	181.552	22.59	23
	56715	3697.5	117.8	-95.26	179.473	22.54	23
16QAM	55265	3552.5	116.72	-95.26	139.959	21.46	23
	55990	3625	116.82	-95.26	143.219	21.56	23
	56715	3697.5	116.65	-95.26	137.721	21.39	23
64QAM	55265	3552.5	115.66	-95.26	109.648	20.4	23
	55990	3625	115.74	-95.26	111.686	20.48	23
	56715	3697.5	115.6	-95.26	108.143	20.34	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

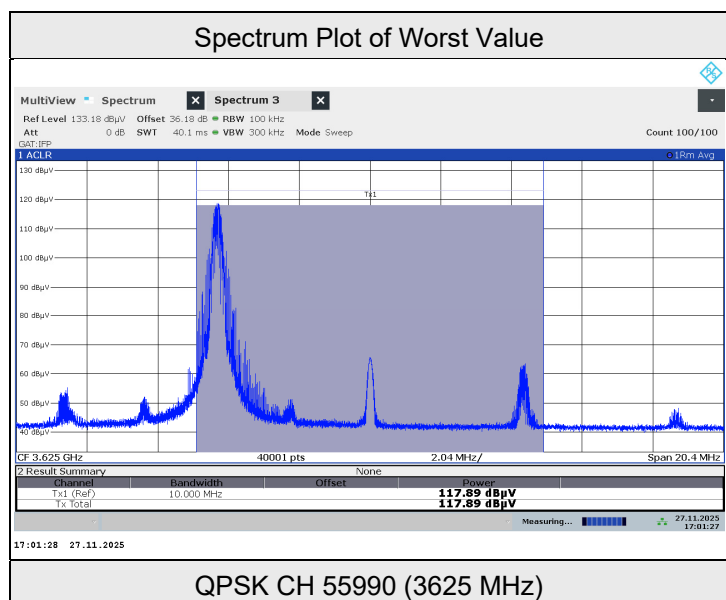


LTE Band 48 (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 10 MHz

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55290	3555	117.8	-95.26	179.473	22.54	23
	55990	3625	117.89	-95.26	183.231	22.63	23
	56690	3695	117.82	-95.26	180.302	22.56	23
16QAM	55290	3555	116.72	-95.26	139.959	21.46	23
	55990	3625	116.75	-95.26	140.929	21.49	23
	56690	3695	116.73	-95.26	140.281	21.47	23
64QAM	55290	3555	115.67	-95.26	109.901	20.41	23
	55990	3625	115.78	-95.26	112.72	20.52	23
	56690	3695	115.64	-95.26	109.144	20.38	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

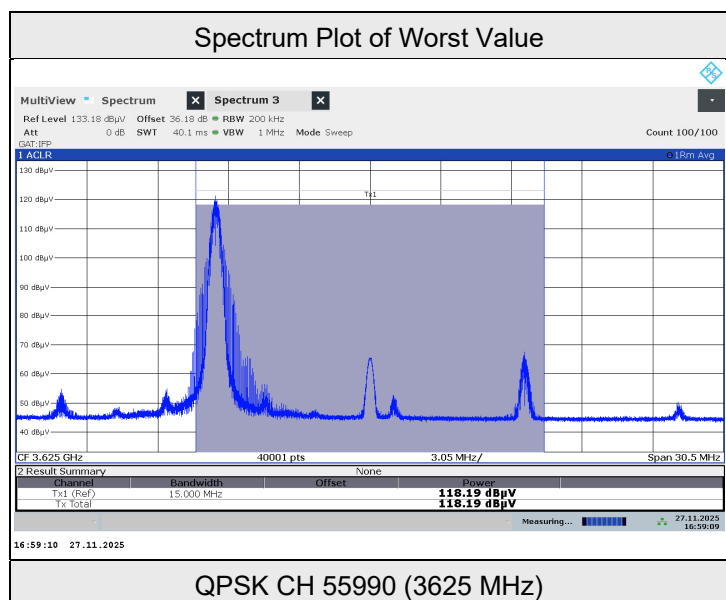


LTE Band 48 (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 15 MHz, Output Power: Full Power

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55315	3557.5	118.05	-95.26	190.108	22.79	23
	55990	3625	118.19	-95.26	196.336	22.93	23
	56665	3692.5	118.14	-95.26	194.089	22.88	23
16QAM	55315	3557.5	116.95	-95.26	147.571	21.69	23
	55990	3625	117.02	-95.26	149.968	21.76	23
	56665	3692.5	116.94	-95.26	147.231	21.68	23
64QAM	55315	3557.5	115.82	-95.26	113.763	20.56	23
	55990	3625	115.94	-95.26	116.95	20.68	23
	56665	3692.5	115.74	-95.26	111.686	20.48	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

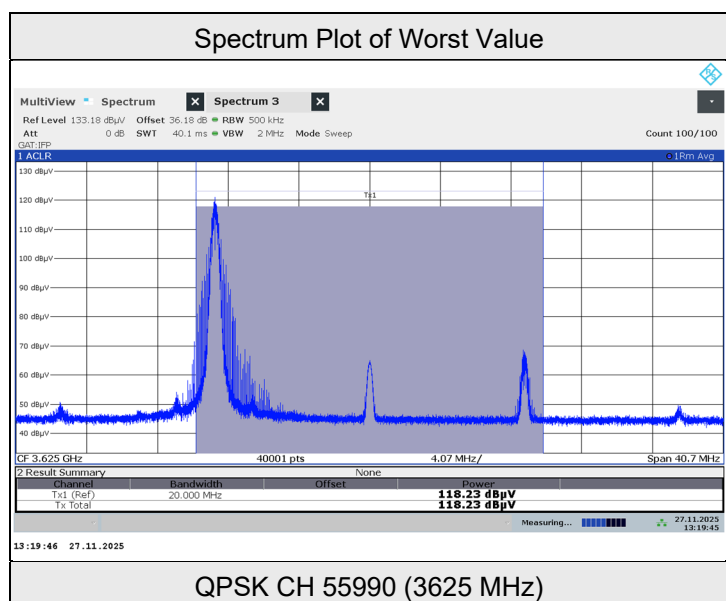


LTE Band 48 (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 20 MHz, Output Power: Full Power

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55340	3560	117.96	-95.26	186.209	22.7	23
	55990	3625	118.23	-95.26	198.153	22.97	23
	56640	3690	118.05	-95.26	190.108	22.79	23
16QAM	55340	3560	116.82	-95.26	143.219	21.56	23
	55990	3625	116.9	-95.26	145.881	21.64	23
	56640	3690	116.84	-95.26	143.88	21.58	23
64QAM	55340	3560	115.78	-95.26	112.72	20.52	23
	55990	3625	115.88	-95.26	115.345	20.62	23
	56640	3690	115.72	-95.26	111.173	20.46	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance at 3 meters.

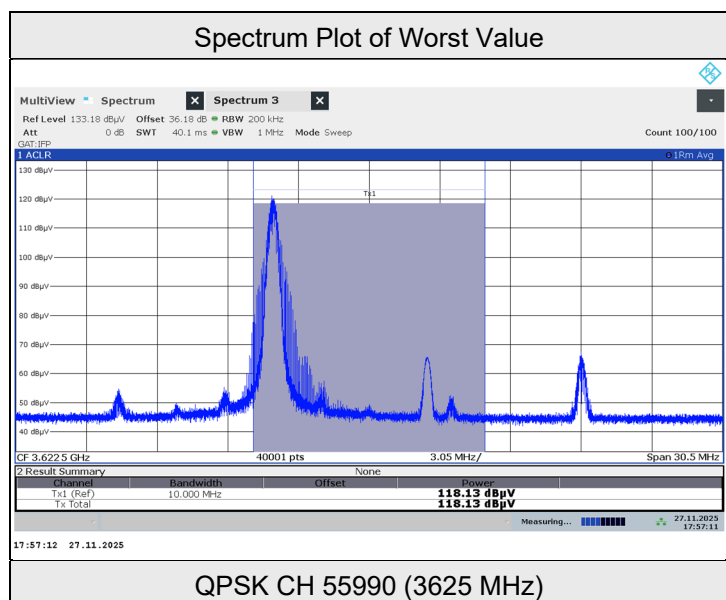


LTE Band 48 (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 15 MHz, Output Power: dBm/10 MHz

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55315	3557.5	117.95	-95.26	185.78	22.69	23
	55990	3625	118.13	-95.26	193.642	22.87	23
	56665	3692.5	118.03	-95.26	189.234	22.77	23
16QAM	55315	3557.5	116.78	-95.26	141.906	21.52	23
	55990	3625	116.94	-95.26	147.231	21.68	23
	56665	3692.5	116.65	-95.26	137.721	21.39	23
64QAM	55315	3557.5	115.67	-95.26	109.901	20.41	23
	55990	3625	115.88	-95.26	115.345	20.62	23
	56665	3692.5	115.74	-95.26	111.686	20.48	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.

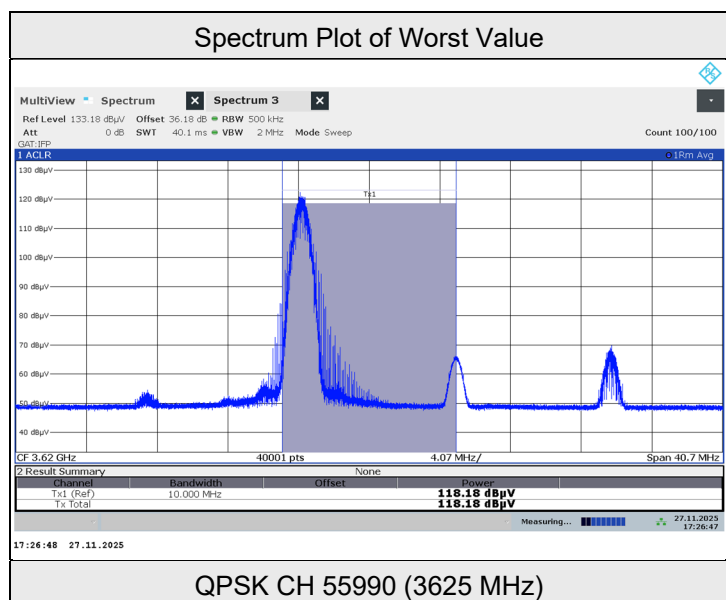


LTE Band 48 (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 20 MHz, Output Power: dBm/10 MHz

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55340	3560	117.89	-95.26	183.231	22.63	23
	55990	3625	118.18	-95.26	195.884	22.92	23
	56640	3690	117.98	-95.26	187.068	22.72	23
16QAM	55340	3560	116.78	-95.26	141.906	21.52	23
	55990	3625	116.94	-95.26	147.231	21.68	23
	56640	3690	116.8	-95.26	142.561	21.54	23
64QAM	55340	3560	115.8	-95.26	113.24	20.54	23
	55990	3625	115.84	-95.26	114.288	20.58	23
	56640	3690	115.74	-95.26	111.686	20.48	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.



7.1.2 LTE Band 48C (3.55 GHz ~ 3.7 GHz)

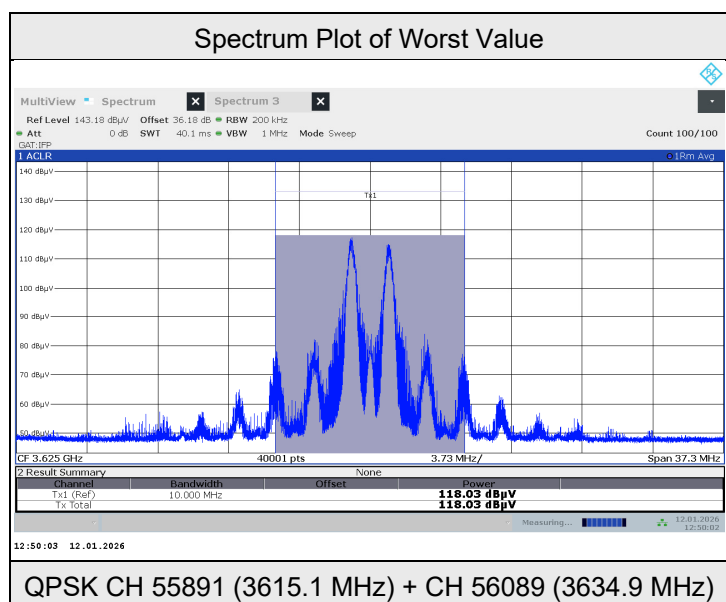
LTE Band 48 (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 20 MHz + 20 MHz

Output Power: dBm/10 MHz

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55340+55538	3560+3579.8	118	-95.26	187.932	22.74	23
	55891+56089	3615.1+3634.9	118.03	-95.26	189.234	22.77	23
	56442+56640	3670.2+3690	118.01	-95.26	188.365	22.75	23
16QAM	55340+55538	3560+3579.8	117.12	-95.26	153.462	21.86	23
	55891+56089	3615.1+3634.9	117.15	-95.26	154.525	21.89	23
	56442+56640	3670.2+3690	117.13	-95.26	153.815	21.87	23
64QAM	55340+55538	3560+3579.8	116.19	-95.26	123.88	20.93	23
	55891+56089	3615.1+3634.9	116.22	-95.26	124.738	20.96	23
	56442+56640	3670.2+3690	116.2	-95.26	124.165	20.94	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.



Note: For the channel bandwidth is less than or equal to 10 MHz, the full power test data please refer to the power per 10 MHz corresponding to the channel bandwidth.

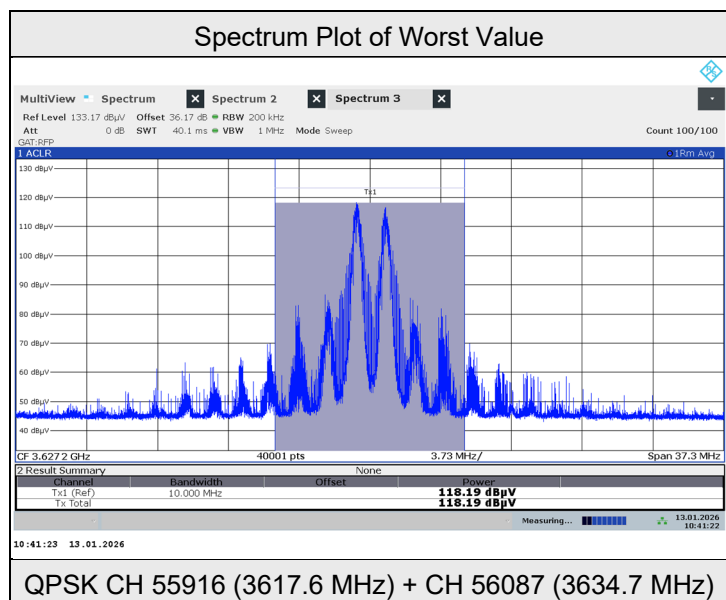
LTE Band 48 (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 20 MHz + 15 MHz

Output Power: dBm/10 MHz

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dB μ V/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55340+55511	3560+3577.1	118.16	-95.26	194.984	22.9	23
	55916+56087	3617.6+3634.7	118.19	-95.26	196.336	22.93	23
	56491+56662	3675.1+3692.2	118.17	-95.26	195.434	22.91	23
16QAM	55340+55511	3560+3577.1	117.27	-95.26	158.855	22.01	23
	55916+56087	3617.6+3634.7	117.3	-95.26	159.956	22.04	23
	56491+56662	3675.1+3692.2	117.29	-95.26	159.588	22.03	23
64QAM	55340+55511	3560+3577.1	116.34	-95.26	128.233	21.08	23
	55916+56087	3617.6+3634.7	116.37	-95.26	129.122	21.11	23
	56491+56662	3675.1+3692.2	116.35	-95.26	128.529	21.09	23

Notes:

1. EIRP (dBm) = Field Strength (dB μ V/m) + Correction Factor (dB)
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance at 3 meters.



Note: For the channel bandwidth is less than or equal to 10 MHz, the full power test data please refer to the power per 10 MHz corresponding to the channel bandwidth.

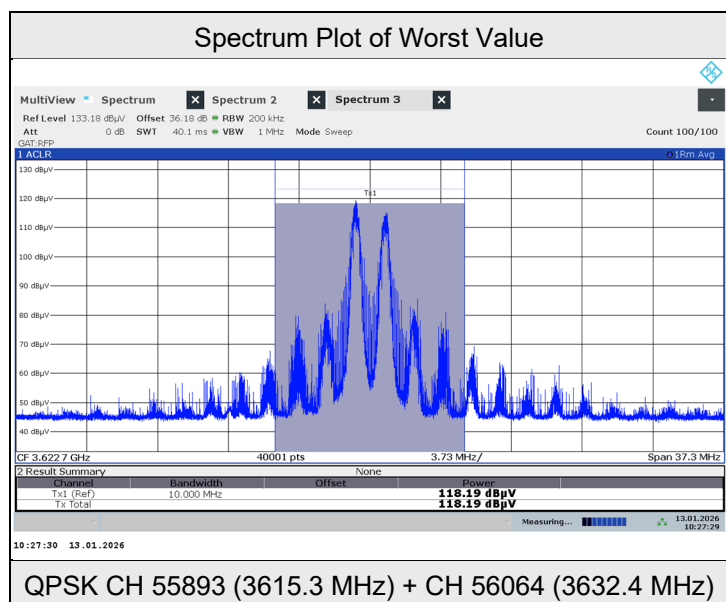
LTE Band 48 (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 15 MHz + 20 MHz

Output Power: dBm/10 MHz

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dB μ V/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55318+55489	3557.8+3574.9	118.14	-95.26	194.089	22.88	23
	55893+56064	3615.3+3632.4	118.19	-95.26	196.336	22.93	23
	56469+56640	3672.9+3690	118.16	-95.26	194.984	22.9	23
16QAM	55318+55489	3557.8+3574.9	117.27	-95.26	158.855	22.01	23
	55893+56064	3615.3+3632.4	117.31	-95.26	160.325	22.05	23
	56469+56640	3672.9+3690	117.29	-95.26	159.588	22.03	23
64QAM	55318+55489	3557.8+3574.9	116.33	-95.26	127.938	21.07	23
	55893+56064	3615.3+3632.4	116.36	-95.26	128.825	21.1	23
	56469+56640	3672.9+3690	116.35	-95.26	128.529	21.09	23

Notes:

1. EIRP (dBm) = Field Strength (dB μ V/m) + Correction Factor (dB)
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance at 3 meters.



Note: For the channel bandwidth is less than or equal to 10 MHz, the full power test data please refer to the power per 10 MHz corresponding to the channel bandwidth.

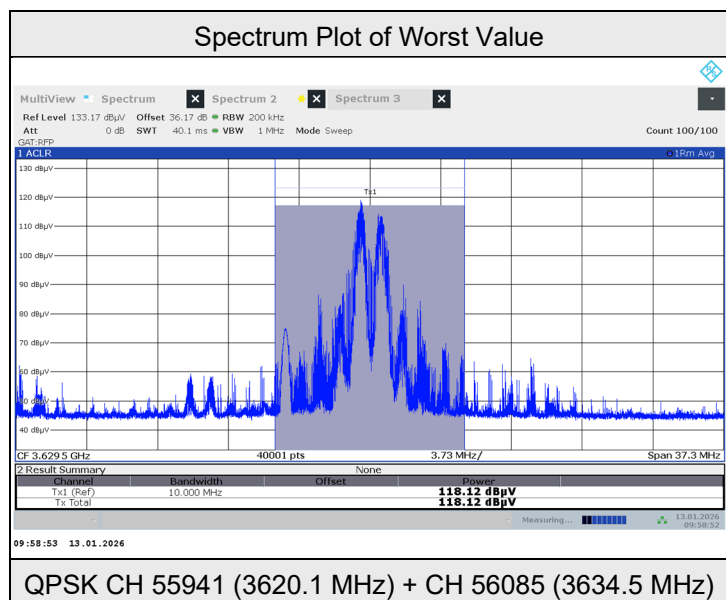
LTE Band 48 (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 20 MHz + 10 MHz

Output Power: dBm/10 MHz

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dB μ V/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55340+55484	3560+3574.4	118.1	-95.26	192.309	22.84	23
	55941+56085	3620.1+3634.5	118.12	-95.26	193.197	22.86	23
	56541+56685	3680.1+3694.5	118.08	-95.26	191.426	22.82	23
16QAM	55340+55484	3560+3574.4	117.22	-95.26	157.036	21.96	23
	55941+56085	3620.1+3634.5	117.26	-95.26	158.489	22	23
	56541+56685	3680.1+3694.5	117.25	-95.26	158.125	21.99	23
64QAM	55340+55484	3560+3574.4	116.35	-95.26	128.529	21.09	23
	55941+56085	3620.1+3634.5	116.39	-95.26	129.718	21.13	23
	56541+56685	3680.1+3694.5	116.37	-95.26	129.122	21.11	23

Notes:

1. EIRP (dBm) = Field Strength (dB μ V/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.



Note: For the channel bandwidth is less than or equal to 10 MHz, the full power test data please refer to the power per 10 MHz corresponding to the channel bandwidth.

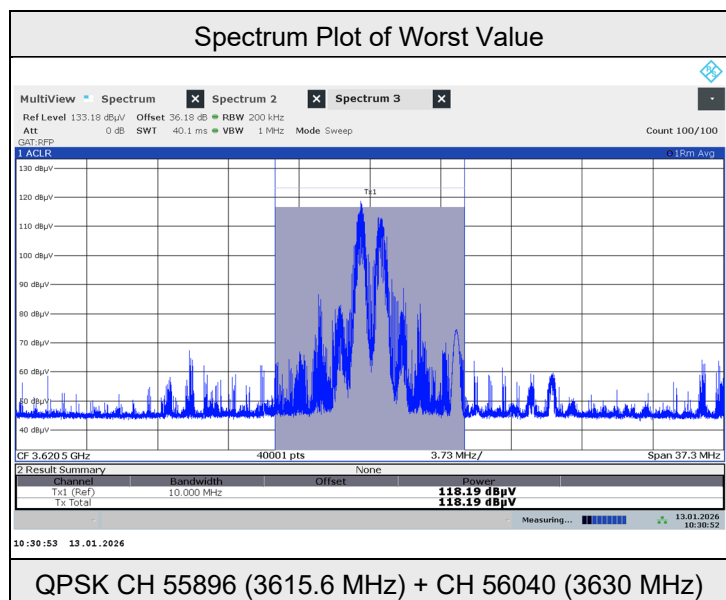
LTE Band 48 (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 10 MHz + 20 MHz

Output Power: dBm/10 MHz

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dB μ V/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55295+55439	3555.5+3569.9	118.17	-95.26	195.434	22.91	23
	55896+56040	3615.6+3630	118.19	-95.26	196.336	22.93	23
	56496+56640	3675.6+3690	118.16	-95.26	194.984	22.9	23
16QAM	55295+55439	3555.5+3569.9	117.25	-95.26	158.125	21.99	23
	55896+56040	3615.6+3630	117.28	-95.26	159.221	22.02	23
	56496+56640	3675.6+3690	117.23	-95.26	157.398	21.97	23
64QAM	55295+55439	3555.5+3569.9	116.34	-95.26	128.233	21.08	23
	55896+56040	3615.6+3630	116.37	-95.26	129.122	21.11	23
	56496+56640	3675.6+3690	116.32	-95.26	127.644	21.06	23

Notes:

1. EIRP (dBm) = Field Strength (dB μ V/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.



Note: For the channel bandwidth is less than or equal to 10 MHz, the full power test data please refer to the power per 10 MHz corresponding to the channel bandwidth.

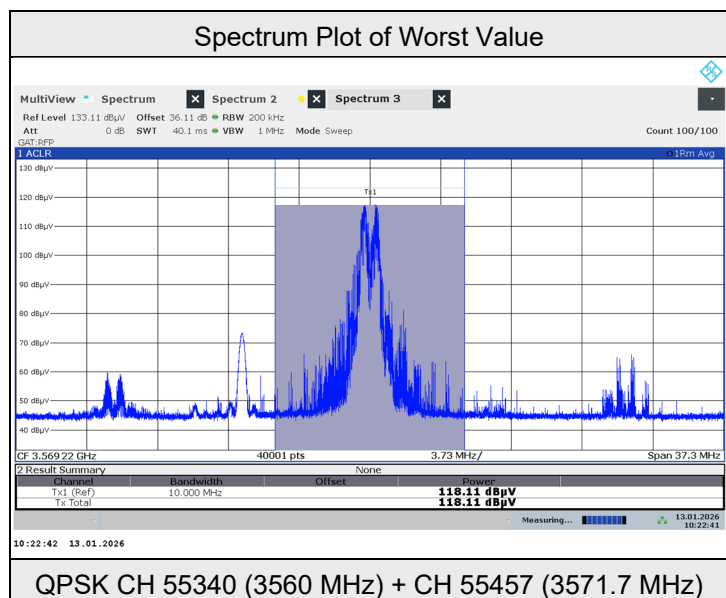
LTE Band 48 (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 20 MHz + 5 MHz

Output Power: dBm/10 MHz

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55340+55457	3560+3571.7	118.11	-95.26	192.752	22.85	23
	55965+56082	3622.5+3634.2	118.09	-95.26	191.867	22.83	23
	56590+56707	3685+3696.7	118.06	-95.26	190.546	22.8	23
16QAM	55340+55457	3560+3571.7	117.24	-95.26	157.761	21.98	23
	55965+56082	3622.5+3634.2	117.21	-95.26	156.675	21.95	23
	56590+56707	3685+3696.7	117.19	-95.26	155.955	21.93	23
64QAM	55340+55457	3560+3571.7	116.33	-95.26	127.938	21.07	23
	55965+56082	3622.5+3634.2	116.29	-95.26	126.765	21.03	23
	56590+56707	3685+3696.7	116.26	-95.26	125.893	21	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.



Note: For the channel bandwidth is less than or equal to 10 MHz, the full power test data please refer to the power per 10 MHz corresponding to the channel bandwidth.

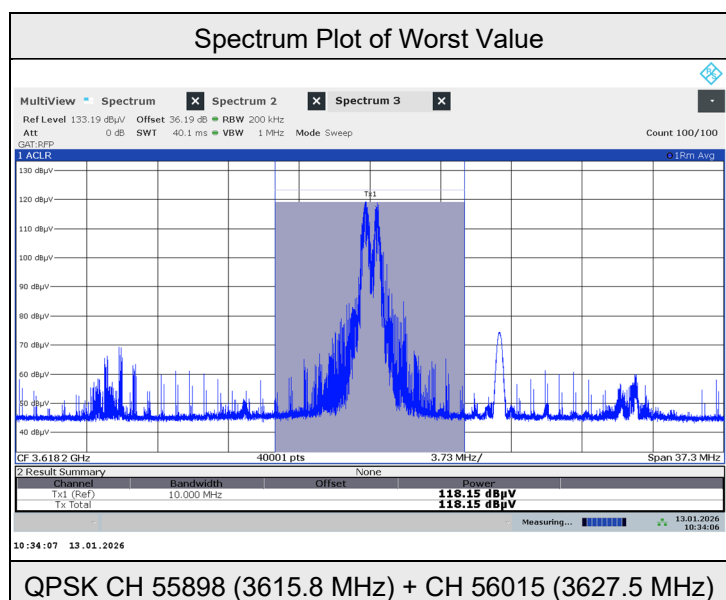
LTE Band 48 (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 5 MHz + 20 MHz

Output Power: dBm/10 MHz

Modulation	Channel	Channel Frequency (MHz)	Field Strength (dBμV/m)	Correction Factor (dB)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)
QPSK	55273+55390	3553.3+3565	118.11	-95.26	192.752	22.85	23
	55898+56015	3615.8+3627.5	118.15	-95.26	194.536	22.89	23
	56523+56640	3678.3+3690	118.13	-95.26	193.642	22.87	23
16QAM	55273+55390	3553.3+3565	117.22	-95.26	157.036	21.96	23
	55898+56015	3615.8+3627.5	117.28	-95.26	159.221	22.02	23
	56523+56640	3678.3+3690	117.26	-95.26	158.489	22	23
64QAM	55273+55390	3553.3+3565	116.34	-95.26	128.233	21.08	23
	55898+56015	3615.8+3627.5	116.39	-95.26	129.718	21.13	23
	56523+56640	3678.3+3690	116.37	-95.26	129.122	21.11	23

Notes:

1. EIRP (dBm) = Field Strength (dBμV/m) + Correction Factor (dB)
2. Correction Factor (dB) = $20\log(D) - 104.8$; where D is the measurement distance at 3 meters.



Note: For the channel bandwidth is less than or equal to 10 MHz, the full power test data please refer to the power per 10 MHz corresponding to the channel bandwidth.

7.2 Radiated Spurious Emissions below 1GHz

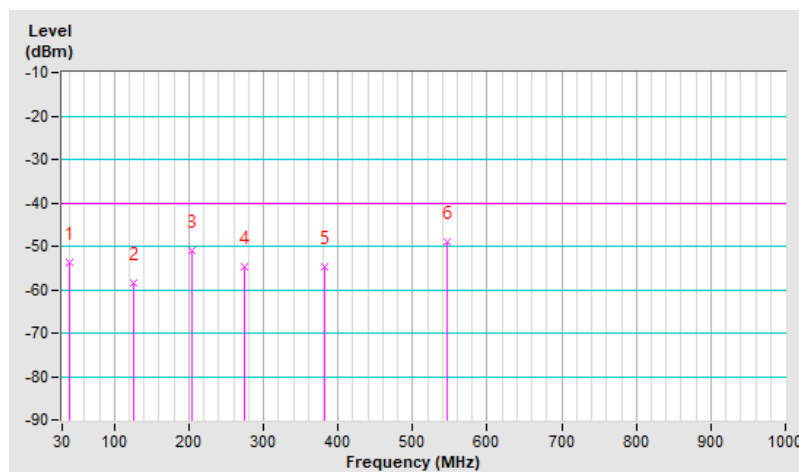
7.2.1 LTE Band 48 (3.55 GHz ~ 3.7 GHz)

RF Mode	LTE Band 48 Channel Bandwidth: 20MHz	Channel	CH 55990 : 3625 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 76% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	40.67	-53.80	-40.00	-13.80	1.99 H	36	50.84	-104.64
2	126.03	-58.50	-40.00	-18.50	1.99 H	129	46.84	-105.34
3	204.60	-51.18	-40.00	-11.18	1.49 H	2	55.04	-106.22
4	275.41	-54.79	-40.00	-14.79	1.49 H	129	47.65	-102.44
5	382.11	-54.82	-40.00	-14.82	1.99 H	196	45.14	-99.96
6	546.04	-49.01	-40.00	-9.01	1.49 H	311	48.13	-97.14

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

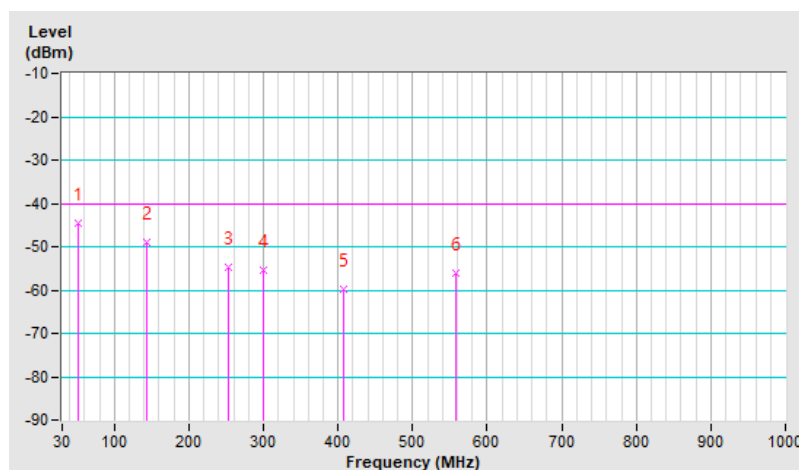


RF Mode	LTE Band 48 Channel Bandwidth: 20MHz	Channel	CH 55990 : 3625 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 76% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	51.34	-44.44	-40.00	-4.44	1.50 V	134	59.66	-104.10
2	142.52	-48.85	-40.00	-8.85	1.50 V	118	54.99	-103.84
3	252.13	-54.60	-40.00	-14.60	1.50 V	118	49.10	-103.70
4	299.66	-55.35	-40.00	-15.35	1.50 V	118	46.41	-101.76
5	407.33	-59.72	-40.00	-19.72	1.50 V	118	39.82	-99.54
6	558.65	-56.24	-40.00	-16.24	1.50 V	238	40.64	-96.88

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.3 Radiated Spurious Emissions above 1GHz

7.3.1 LTE Band 48 (3.55 GHz ~ 3.7 GHz)

RF Mode	LTE Band 48 Channel Bandwidth: 20MHz	Channel	CH 55990 : 3625 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 76% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7250.00	-41.49	-40.00	-1.49	1.56 H	224	43.89	-85.38
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7250.00	-41.42	-40.00	-1.42	1.88 V	345	43.96	-85.38

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

7.3.2 LTE Band 48C (3.55 GHz ~ 3.7 GHz)

RF Mode	LTE Band 48C Channel Bandwidth: 20MHz + 20MHz	Channel	CH 56442 : 3670.2 MHz + CH 56640 : 3690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 76% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7340.40	-41.54	-40.00	-1.54	1.55 H	220	43.45	-84.99
2	7380.00	-41.50	-40.00	-1.50	1.60 H	224	43.30	-84.80
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7340.40	-41.10	-40.00	-1.10	1.88 V	345	43.89	-84.99
2	7380.00	-41.15	-40.00	-1.15	1.95 V	347	43.65	-84.80

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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