

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 96

47 CFR FCC Part 2

Report No.: RFBFJZ-WTW-P22110126-8

FCC ID: V65E7200

Product: Smartphone

Brand: Kyocera Model No.: E7200

Received Date: 2022/12/7

Test Date: 2023/1/10 ~ 2023/3/15

Issued Date: 2023/4/11

Applicant: Kyocera Corporation % Kyocera International, Inc.

Address: 8611 Balboa Avenue, San Diego, CA 92123

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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FCC Registration / 788550 / TW0003

Designation Number:

Test Location (2): No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

FCC Registration / 281270 / TW0032

Designation Number:

Approved by:	Jeremy Lin	, Date:	2023/4/11	
		·		

Jeremy Lin / Project Engineer

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Prepared by : Celine Chou / Senior Specialist

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Table of Contents

Rele	as	e Control Record	4
1	(Certificate	5
2	5	Summary of Test Results	6
2.	1	Measurement Uncertainty	6
2.	2	Supplementary Information	
3	(General Information	7
3.	1	General Description of EUT	7
3.		Antenna Description of EUT	
3.	3	Test Mode Applicability and Tested Channel Detail	9
3.4	4	Test Program Used and Operation Descriptions	
3.	5	Connection Diagram of EUT and Peripheral Devices	
3.	6	Configuration of Peripheral Devices and Cable Connections	11
4	7	Test Instruments	12
4.	1	Maximum EIRP	12
4.	2	Modulation Characteristics	12
4.	3	Peak to Average Ratio	12
4.4	4	Bandwidth	12
4.	5	Conducted Spurious Emissions	
4.	6	Radiated Spurious Emissions below 1GHz	
4.		Radiated Spurious Emissions above 1GHz	
4.	8	Frequency Stability	15
5	L	Limits of Test Items	16
5.	1	Maximum EIRP	16
5.: 5.:		Modulation Characteristics	
5.		Peak to Average Ratio	
5.4		Bandwidth	
5.		Conducted Spurious Emissions	
5.		Radiated Spurious Emissions below 1GHz	
5.	7	Radiated Spurious Emissions above 1GHz	
5.	8	Frequency Stability	17
6	1	Test Arrangements	18
6.	1	Maximum EIRP	18
	1.1		
	1.2	·	
6.		Modulation Characteristics	
	2.1		
6.	2.2	·	
6.3	3	Peak to Average Ratio	
6.	3.1	Test Setup	19
6.	3.2	Test Procedure	19
6.4	4	Bandwidth	20
	4.1	·	
6.4	4.2		
6.		Conducted Spurious Emissions	
	5.1	· ·	
	5.2		
6.		Radiated Spurious Emissions below 1GHz	
	6.1	· ·	
	6.2		
6.		Radiated Spurious Emissions above 1GHz	
	7.1	•	
_	7.2		
6.	5 8.1	Frequency Stability Test Setup	
		·	oort Format Version: 7.1.0



	6.8.2	Test Procedure	25
7	Te	est Results of Test Item	26
	7.1	Maximum EIRP	26
	7.1.1	LTE Band 48	26
	7.2	Modulation Characteristics	44
	7.2.1	LTE Band 48	44
	7.3	Peak to Average Ratio	
	7.3.1	LTE Band 48	45
	7.4	Bandwidth	49
	7.4.1	LTE Band 48	49
	7.5	Conducted Spurious Emissions	
	7.5.1	LTE Band 48	
	7.6	Radiated Spurious Emissions below 1GHz	77
	7.6.1	LTE Band 48	
	7.7	Radiated Spurious Emissions above 1GHz	
	7.7.1	LTE Band 48	
	7.8	Frequency Stability	85
	7.8.1	LTE Band 48	
8	Р	Pictures of Test Arrangements	89
9	Ir	nformation of the Testing Laboratories	90



Release Control Record

Issue No.	Description	Date Issued
RFBFJZ-WTW-P22110126-8	Original release.	2023/4/11

Report No.: RFBFJZ-WTW-P22110126-8 Page No. 4 / 90 Report Format Version: 7.1.0



1 Certificate

Product: Smartphone

Brand: Kyocera

Test Model: E7200

Sample Status: Identical prototype

Applicant: Kyocera Corporation % Kyocera International, Inc.

Test Date: 2023/1/10 ~ 2023/3/15

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

	47 CFR FCC Part 96 & Part 2					
Standard / Clause Test Item		Result	Remark			
FCC 47 CFR Part 2.1046 FCC 47 CFR Part 96.41(b)	Maximum EIRP	Pass	Meet the requirement of limit.			
FCC 47 CFR Part 2.1047	Modulation Characteristics	Pass	Meet the requirement of limit.			
FCC 47 CFR Part 96.41(g)	Peak to Average Ratio	Pass	Meet the requirement of limit.			
FCC 47 CFR Part 2.1049	Bandwidth	Pass	Meet the requirement of limit.			
FCC 47 CFR Part 2.1051 FCC 47 CFR Part 96.41(e)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.			
FCC 47 CFR Part 2.1053 FCC 47 CFR Part 96.41(e)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -6.97 dB at 33.88 MHz			
FCC 47 CFR Part 2.1053 FCC 47 CFR Part 96.41(e)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -1.41 dB at 7250.00 MHz			
FCC 47 CFR Part 2.1055	Frequency Stability	Pass	Meet the requirement of limit.			

Note: 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:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
Redicted Spurious Emissions helpy 10Hz	9 kHz ~ 30 MHz	3.00 dB
Radiated Spurious Emissions below 1GHz	30 MHz ~ 1 GHz	2.93 dB
Redicted Spurious Emissions above 1047	1 GHz ~ 18 GHz	1.76 dB
Radiated Spurious Emissions above 1GHz	18 GHz ~ 40 GHz	1.77 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	Smartphone
Brand	Kyocera
Test Model	E7200
Status of EUT	Identical prototype
Davisa Comple Dating	20Vdc or 15Vdc or 9Vdc or 5Vdc (From adapter)
Power Supply Rating	3.87Vdc (From battery)

Note:

1. EUT Overview

Daniel / Daniel delle	TX Frequency	Max. EIRP Power			
Band / Bandwidth	Range (MHz)	QPSK	16QAM	64QAM	256QAM
LTE Band 48 (Channel Bandwidth 5MHz)	3552.5-3697.5	101.625mW	81.846mW	64.714mW	32.659mW
ETE Band 40 (Onarmor Bandwatti Olimiz)	0002.0 0001.0	(20.07dBm/10MHz)	QPSK 16QAM 64QAM		(15.14dBm/10MHz)
LTE Band 48 (Channel Bandwidth 10MHz)	3555.0-3695.0	103.514mW	82.224mW	63.973mW	32.359mW
2.2 Band 10 (Ghainier Bandwath 10111112)		(20.15dBm/10MHz)	16QAM 64QAM 81.846mW 64.714mW (19.13dBm/10MHz) (18.11dBm/10MHz) 82.224mW 63.973mW (19.15dBm/10MHz) (18.06dBm/10MHz) 107.152mW 85.704mW (20.30dBm/10MHz) (19.33dBm/10MHz) 82.794mW 65.013mW (19.18dBm/15MHz) (18.13dBm/15MHz) 110.154mW 88.716mW (20.42dBm/10MHz) (19.48dBm/10MHz) 83.753mW 67.143mW		(15.10dBm/10MHz)
	3557.5-3692.5	132.434mW	107.152mW	85.704mW	45.709mW
I TE Dand 40 (Channel Bandwidth 45MI)		(21.22dBm/10MHz)	(20.30dBm/10MHz)	(19.33dBm/10MHz)	(16.60dBm/10MHz)
LTE Band 48 (Channel Bandwidth 15MHz)		103.753mW	82.794mW	65.013mW	32.659mW
		(20.16dBm/15MHz)	(19.18dBm/15MHz)	(18.13dBm/15MHz)	(15.14dBm/15MHz)
		130.918mW	110.154mW	88.716mW	46.559mW
LTE Bond 40 (Channel Bondwidth 2014)	3560.0-3690.0	(21.17dBm/10MHz)	(20.42dBm/10MHz)	(19.48dBm/10MHz)	(16.68dBm/10MHz)
LTE Band 48 (Channel Bandwidth 20MHz)		105.439mW	83.753mW	67.143mW	32.734mW
		(20.23dBm/20MHz)	(19.23dBm/20MHz)	(18.27dBm/20MHz)	(15.15dBm/20MHz)

Don't / Don't still	TX Frequency	Emission Designator			
Band / Bandwidth	Range (MHz)	QPSK	16QAM	64QAM	256QAM
LTE Band 48 (Channel Bandwidth 5MHz)	3552.5-3697.5	4M49G7D	4M49D7W	4M49D7W	4M50D7W
LTE Band 48 (Channel Bandwidth 10MHz)	3555.0-3695.0	8M97G7D	8M98D7W	8M98D7W	8M98D7W
LTE Band 48 (Channel Bandwidth 15MHz)	3557.5-3692.5	13M5G7D	13M5D7W	13M5D7W	13M5D7W
LTE Band 48 (Channel Bandwidth 20MHz)	3560.0-3690.0	17M9G7D	17M9D7W	17M9D7W	17M9D7W

2. The EUT uses following accessories.

Battery					
Brand	Model	Specification			
Kyocera	SCP-76LBPS	Power Rating : 3.87Vdc, typ 4270mAh, typ. 16.6Wh			
USB Type A to USB type C cable	USB Type A to USB type C cable				
Brand	Model	Specification			
Kyocera	SCP-24 SDC	Signal Line : 1m shielded Type A to Type C USB			

3. The EUT uses following support unit only.

Adapter (Support unit)					
Brand	Model	Specification			
Kyocera	SCP-53ADT	AC Input: 100-240 Vac, 50/60 Hz, 0.6A DC Output: 5Vdc, 3A; 9Vdc, 3A; 15Vdc 1.8A; 20Vdc, 1.35A			

^{4.} 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.

Report No.: RFBFJZ-WTW-P22110126-8 Page No. 7 / 90 Report Format Version: 7.1.0



3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna Type		Monopole				
Antenna Connector		NA				
Item	Antenna No.	Band	Gain (dBi)			
		Band 2	-0.7			
		Band 4	-0.1			
		Band 5	-2.8			
		Band 7	-2.5			
		Band 12	-5.5			
		Band 13	-2.6			
	ANT0	Band 14	-2.6			
		Band 17	-5.5			
		Band 25	-0.7			
LTE		Band 30	-1.4			
		Band 41	0.5			
		Band 66	-0.1			
		Band 71	-6.2			
		Band 2	0.1			
		Band 4	-0.5			
	ANITA	Band 25	0.2			
	ANT1	Band 41	-1.5			
		Band 48	-2.0			
		Band 66	0.0			

^{*} 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: 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: X-axis/ Y-axis/ Z-axis Worst Condition: Z-axis

Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
	55265 (3552.50 MHz) 55990 (3625.00 MHz) 56715 (3697.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
EIRP	55290 (3555.00 MHz) 55990 (3625.00 MHz) 56690 (3695.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
LIKE	55315 (3557.50 MHz) 55990 (3625.00 MHz) 56665 (3692.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
	55340 (3560.00 MHz) 55990 (3625.00 MHz) 56640 (3690.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
Modulation Characteristics	55990 (3625.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	55265 (3552.50 MHz) 56715 (3697.50 MHz)	5 MHz	QPSK	Full RB
Frequency Stability	55290 (3555.00 MHz) 56690 (3695.00 MHz)	10 MHz	QPSK	Full RB
Frequency Stability	55315 (3557.50 MHz) 56665 (3692.50 MHz)	15 MHz	QPSK	Full RB
	55340 (3560.00 MHz) 56640 (3690.00 MHz)	20 MHz	QPSK	Full RB
	55265 (3552.50 MHz) 55990 (3625.00 MHz) 56715 (3697.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Occupied Randwidth	55290 (3555.00 MHz) 55990 (3625.00 MHz) 56690 (3695.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
Occupied Bandwidth	55315 (3557.50 MHz) 55990 (3625.00 MHz) 56665 (3692.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	55340 (3560.00 MHz) 55990 (3625.00 MHz) 56640 (3690.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	Full RB
	55265 (3552.50 MHz) 55990 (3625.00 MHz) 56715 (3697.50 MHz)	5 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
Peak to Average Ratio	55290 (3555.00 MHz) 55990 (3625.00 MHz) 56690 (3695.00 MHz)	10 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	55315 (3557.50 MHz) 55990 (3625.00 MHz) 56665 (3692.50 MHz)	15 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB
	55340 (3560.00 MHz) 55990 (3625.00 MHz) 56640 (3690.00 MHz)	20 MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB

Report No.: RFBFJZ-WTW-P22110126-8 Page No. 9 / 90 Report Format Version: 7.1.0

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BUREAU
VERITAS

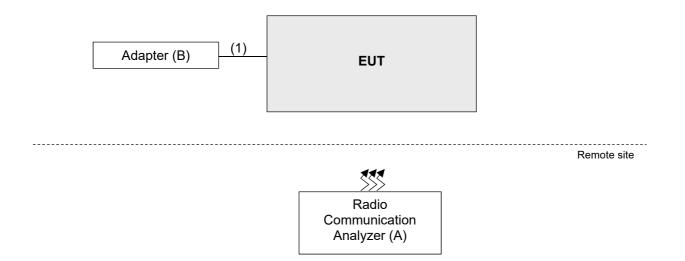
Test Item	Tested Channel	Channel Bandwidth	Modulation	Mode
	55265 (3552.50 MHz) 55990 (3625.00 MHz) 56715 (3697.50 MHz)	5 MHz	QPSK	1 RB Full RB
Conducted Emission	55290 (3555.00 MHz) 55990 (3625.00 MHz) 56690 (3695.00 MHz)	10 MHz	QPSK	1 RB Full RB
Conducted Emission	55315 (3557.50 MHz) 55990 (3625.00 MHz) 56665 (3692.50 MHz)	15 MHz	QPSK	1 RB Full RB
	55340 (3560.00 MHz) 55990 (3625.00 MHz) 56640 (3690.00 MHz)	20 MHz	QPSK	1 RB Full RB
RE Below 1GHz	55990 (3625.00 MHz)	5 MHz	QPSK	1 RB
	55265 (3552.50 MHz) 55990 (3625.00 MHz) 56715 (3697.50 MHz)	5 MHz	QPSK	1 RB
RE Above 1GHz	55315 (3557.50 MHz) 55990 (3625.00 MHz) 56665 (3692.50 MHz)	15 MHz	QPSK	1 RB
	55340 (3560.00 MHz) 55990 (3625.00 MHz) 56640 (3690.00 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
Α	Radio Communication Analyzer	Anritsu	MT8821C	6201462755	N/A	Provided by Lab
В	Adapter	Kyocera	SCP-53ADT	N/A	N/A	Provided by Client

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	USB Cable	1	1	Υ	0	Accessory of EUT

Report No.: RFBFJZ-WTW-P22110126-8 Page No. 11 / 90 Report Format Version: 7.1.0



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
N9030B - PXA Signal Analyzer KEYSIGHT	N9030B	MY57140488	2022/2/24	2023/2/23
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2022/3/3	2023/3/2
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.

2. Tested Date: 2023/1/10

4.2 Modulation Characteristics

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
N9030B - PXA Signal Analyzer KEYSIGHT	N9030B	MY57140938	2022/3/15	2023/3/14
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2022/3/3	2023/3/2
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.

2. Tested Date: 2023/1/10

4.3 Peak to Average Ratio

Refer to section 4.2 to get information of the instruments.

4.4 Bandwidth

Refer to section 4.2 to get information of the instruments.

4.5 Conducted Spurious Emissions

Refer to section 4.2 to get information of the instruments.

Report No.: RFBFJZ-WTW-P22110126-8 Page No. 12 / 90 Report Format Version: 7.1.0



Radiated Spurious Emissions below 1GHz 4.6

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Bi-log Broadband Antenna Schwarzbeck	VULB9168	9168-1213	2022/10/20	2023/10/19
Loop Antenna EMCI	EM-6879	269	2022/9/19	2023/9/18
Loop Antenna TESEQ	HLA 6121	45745	2022/7/27	2023/7/26
Pre-amplifier EMCI	EMC001340	980201	2022/9/23	2023/9/22
Pre_Amplifier EMCI	EMC330N	980782	2023/1/16	2024/1/15
	5D-NM-BM	140903+140902	2023/1/7	2024/1/6
RF Coaxial Cable	EMCCFD400-NM-NM- 500	201233	2023/1/16	2024/1/15
EMCI	EMCCFD400-NM-NM- 3000	201235	2023/1/16	2024/1/15
	EMCCFD400-NM-NM- 9000	201236	2023/1/16	2024/1/15
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Spectrum Analyzer R&S	FSW43	101866	2023/1/10	2024/1/9
Test Receiver R&S	ESR3+	102782	2022/12/12	2023/12/11
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2023/3/3	2024/3/2

Notes:

The test was performed in WM - 966 chamber 8.
 Tested Date: 2023/3/4

Page No. 13 / 90 Report No.: RFBFJZ-WTW-P22110126-8 Report Format Version: 7.1.0



4.7 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Horn Antenna RFSPIN	DRH18-E	210103A18E	2022/11/13	2023/11/12
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2022/11/13	2023/11/12
Pre_Amplifier	EMC118A45SE	980808	2022/12/29	2023/12/28
EMCI	EMC184045SE	980788	2023/1/16	2024/1/15
	EMC101G-KM-KM-2000	201254	2023/1/16	2024/1/15
	EMC101G-KM-KM-3000	201257	2023/1/16	2024/1/15
RF Coaxial Cable	EMC101G-KM-KM-5000	201260	2023/1/16	2024/1/15
EMCI	EMC104-SM-SM-1000	210102	2023/1/16	2024/1/15
	EMC104-SM-SM-3000	201231	2023/1/16	2024/1/15
	EMC104-SM-SM-9000	201243	2023/1/16	2024/1/15
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Spectrum Analyzer R&S	FSW43	101866	2023/1/10	2024/1/9
Test Receiver R&S	ESR3+	102782	2022/12/12	2023/12/11
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2023/3/3	2024/3/2

Notes:

1. The test was performed in WM - 966 chamber 8.

2. Tested Date: 2023/3/3

Report No.: RFBFJZ-WTW-P22110126-8 Page No. 14 / 90 Report Format Version: 7.1.0



4.8 **Frequency Stability**

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
3-channel DC power supply JIN YIH Technology	ODP3033	ODP30332128138	N/A	N/A
Digital Multimeter Fluke	87-III	70360742	2022/6/23	2023/6/22
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100980	2022/4/20	2023/4/19
Temperature & Humidity Chamber TERCHY	HRM-120RF	931022	2022/12/27	2023/12/26
Radio Communication Analyzer Anritsu	MT8821C	6201462755	2023/3/3	2024/3/2

Notes:

- The test was performed in Oven room.
 Tested Date: 2023/3/15

Report No.: RFBFJZ-WTW-P22110126-8 Page No. 15 / 90 Report Format Version: 7.1.0



5 Limits of Test Items

5.1 Maximum EIRP

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

5.2 Modulation Characteristics

A curve or equivalent data which shows that the equipment will meet the modulation requirements of the rules under which the equipment is to be licensed.

5.3 Peak to Average Ratio

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

5.4 Bandwidth

According to FCC 47 CFR part 2.1049, the occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5% of the total mean power radiated by a given emission.

5.5 Conducted Spurious Emissions

Power of any emissions outside the Fundamental	Limit	
Within 0-10MHz above the Assigned Channel	42 dDm/MUz	
Within 0-10MHz below the Assigned Channel	-13 dBm/MHz	
Greater than 10MHz above the Assigned Channel	25 dDm/M1 le	
Greater than 10MHz below the Assigned Channel	-25 dBm/MHz	
Power of any emission below 3530MHz	40 dPm/MLI=	
Power of any emission above 3720MHz	-40 dBm/MHz	

5.6 Radiated Spurious Emissions below 1GHz

Power of any emissions outside the Fundamental	Limit	
Within 0-10MHz above the Assigned Channel	-13 dBm/MHz	
Within 0-10MHz below the Assigned Channel	-13 UDIII/MITZ	
Greater than 10MHz above the Assigned Channel	-25 dBm/MHz	
Greater than 10MHz below the Assigned Channel	-23 UBIT/IMITZ	
Power of any emission below 3530MHz	40 dDm/MU-	
Power of any emission above 3720MHz	-40 dBm/MHz	

Report No.: RFBFJZ-WTW-P22110126-8 Page No. 16 / 90 Report Format Version: 7.1.0



5.7 Radiated Spurious Emissions above 1GHz

Power of any emissions outside the Fundamental	Limit	
Within 0-10MHz above the Assigned Channel	-13 dBm/MHz	
Within 0-10MHz below the Assigned Channel		
Greater than 10MHz above the Assigned Channel	OF JDrs/MI	
Greater than 10MHz below the Assigned Channel	-25 dBm/MHz	
Power of any emission below 3530MHz	-40 dBm/MHz	
Power of any emission above 3720MHz		

5.8 Frequency Stability

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation (authorized frequency block).

Report No.: RFBFJZ-WTW-P22110126-8 Page No. 17 / 90 Report Format Version: 7.1.0

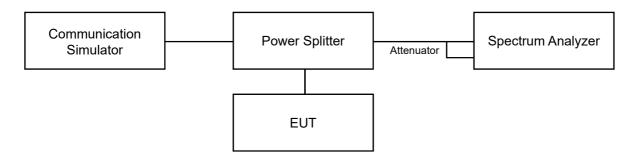


6 Test Arrangements

6.1 Maximum EIRP

6.1.1 Test Setup

Conducted Power Measurement:



6.1.2 Test Procedure

Conducted Power Measurement:

The EUT is configured by emulator to set data modulation and maximum power using WWAN technology. The power measurement was performed on emulator and power value was measured from power function on emulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

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 ≥ 3 × RBW.
- d. Set number of measurement points in sweep ≥ 2 × 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. 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.
- j. If Duty cycle < 98%, Add 10 log (1/duty cycle) to the measured power level to compute the average power during continuous transmission.
- k. For per 10MHz method, channel power integrating bandwidth 10MHz is used for bandwidth 5M, 10M, 15M and 20M. For full power method, channel power integrating bandwidth 10MHz is used for bandwidth 5M, 10M, integrating bandwidth 15MHz is used for bandwidth 15M, integrating bandwidth 20MHz is used for bandwidth 20M.

Maximum EIRP / ERP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

EIRP =
$$P_{Meas} + G_{T}$$

$$ERP = P_{Meas} + G_T - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as P_{Meas}, e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

Report No.: RFBFJZ-WTW-P22110126-8 Page No. 18 / 90 Report Format Version: 7.1.0



6.2 Modulation Characteristics

6.2.1 Test Setup

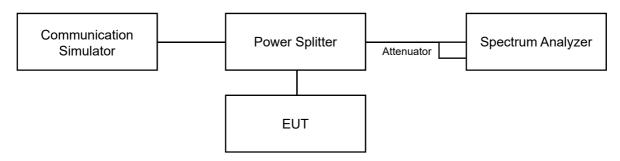


6.2.2 Test Procedure

Connect the EUT to Communication Simulator via the antenna connector, the frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

6.3 Peak to Average Ratio

6.3.1 Test Setup



6.3.2 Test Procedure

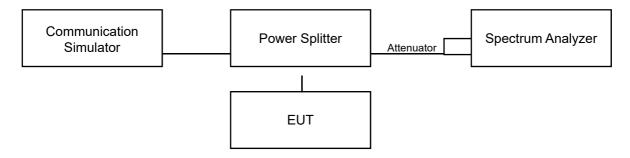
- a. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- b. Set the number of counts to a value that stabilizes the measured CCDF curve;
- c. Record the maximum PAPR level associated with a probability of 0.1%.

Report No.: RFBFJZ-WTW-P22110126-8 Page No. 19 / 90 Report Format Version: 7.1.0



6.4 Bandwidth

6.4.1 Test Setup



6.4.2 Test Procedure

For the 26 dBc bandwidth measurement method, please refer to section 5.4.3 of ANSI C63.26.

- a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.
- c. Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
- d. The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target "-X dB" requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e. Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- f. Determine the following reference values: 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).
- g. Determine the "-X dB amplitude" as equal to (Reference Value X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.
- h. 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 amplitude" determined in step f). If a marker is below this "-X dB amplitude" value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- i. The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Report No.: RFBFJZ-WTW-P22110126-8 Page No. 20 / 90 Report Format Version: 7.1.0



For the occupied bandwidth measurement method, please refer to section 5.4.4 of ANSI C63.26.

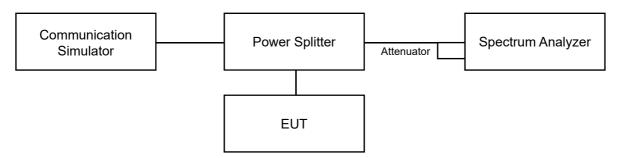
- a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.
- c. Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
- d. The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target "-X dB" requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e. Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- f. Determine the reference value by either of the following:
- g. 1) 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).
- h. 2) Set the EUT to transmit an unmodulated carrier. Set the spectrum analyzer marker to the level of the carrier.
- i. Determine the "-X dB amplitude" as equal to (Reference Value X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.
- j. If the reference value was determined using an unmodulated carrier, turn the EUT modulation on, then either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise the trace from step f) shall be used for step i).
- k. 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 amplitude" determined in step f). If a marker is below this "–X dB amplitude" value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers. The spectral envelope can cross the "–X dB amplitude" at multiple points. The lowest or highest frequency shall be selected as the frequencies that are the farthest away from the center frequency at which the spectral envelope crosses the "–X dB amplitude."
- I. The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Report No.: RFBFJZ-WTW-P22110126-8 Page No. 21 / 90 Report Format Version: 7.1.0



6.5 Conducted Spurious Emissions

6.5.1 Test Setup



6.5.2 Test Procedure

- a. Measurement refer to ANSI C63.26 section 5.7.
- b. All measurements were done at 3 channels: low, middle and high operational frequency range.
- c. Measuring frequency range is from 9 kHz up to the tenth harmonic of the hightest fundamental frequency or to 40 GHz, whichever is lower. 20 dB attenuation pad is connected with spectrum.
- d. The fundamental frequency above 1 GHz, the spectrum set RBW = 1 MHz, VBW = 3 MHz, Detector = Average.
- e. The fundamental frequency below 1 GHz, the spectrum set RBW ≥ 100 kHz, VBW ≥ 3 x RBW, Detector = Average.
- f. Measuring frequency band edge, narrow RBW (no less than 1% of the OBW) is used for conducted emission measurement.

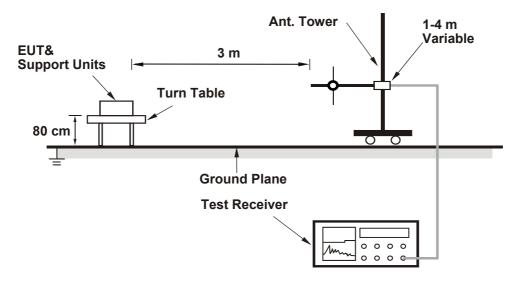
Report No.: RFBFJZ-WTW-P22110126-8 Page No. 22 / 90 Report Format Version: 7.1.0



6.6 Radiated Spurious Emissions below 1GHz

6.6.1 Test Setup

For radiated emission 30 MHz to 1 GHz



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

6.6.2 Test Procedure

The EUT is configured by emulator 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 C63.26 section 5.5 and 5.2.7
- e. EIRP (dBm) = E (dB μ V/m) + 20log(D) 104.8; where D is the measurement distance (in the far field region) in m.
- f. ERP (dBm) = E (dB μ V/m) + 20log(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.
- The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:
 The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

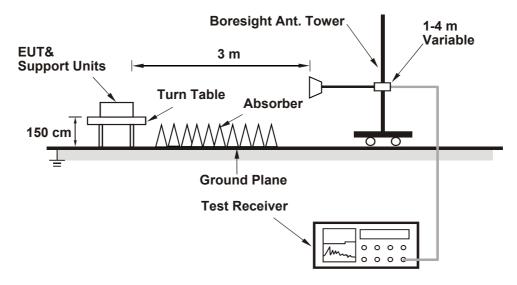
Report No.: RFBFJZ-WTW-P22110126-8 Page No. 23 / 90 Report Format Version: 7.1.0



6.7 Radiated Spurious Emissions above 1GHz

6.7.1 Test Setup

For radiated emission above 1 GHz



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

6.7.2 Test Procedure

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

- a. 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.
- 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 C63.26 section 5.5 and 5.2.7
- e. EIRP (dBm) = E (dBμV/m) + 20log(D) 104.8; where D is the measurement distance (in the far field region) in m.
- f. ERP (dBm) = E (dBμV/m) + 20log(D) 104.8 2.15; where D is the measurement distance (in the far field region) in m.

Note:

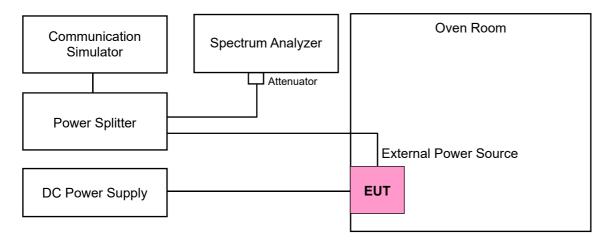
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

Report No.: RFBFJZ-WTW-P22110126-8 Page No. 24 / 90 Report Format Version: 7.1.0



6.8 Frequency Stability

6.8.1 Test Setup



6.8.2 Test Procedure

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

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}$ C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

Note: The frequency error was recorded frequency error from the communication simulator.



7 Test Results of Test Item

7.1 Maximum EIRP

Input Power:	3.87 Vdc	Environmental Conditions:	22°C, 70% RH	Tested By:	Willy Cheng
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7.1.1 LTE Band 48

Conducted Output Power (dBm/10MHz)

			LTE	Band 48		
		RB Size	RB Offset	Low	Mid	Mid
BW	MCS Index	Cha	nnel	55340	55990	56640
	index	Frequen	icy (MHz)	3560	3625	3690
		1	0	23.06	23.11	23.11
		1	50	23.02	23.17	23.09
		1	99	23.05	23.01	23.04
20M	QPSK	50	0	22.33	22.33	22.21
		50	25	22.10	22.26	22.14
		50	50	22.14	22.10	22.20
		100	0	18.93	18.99	18.95
		1	0	22.19	22.33	22.42
		1	50	22.08	22.40	22.22
		1	99	22.12	22.28	22.27
20M	16QAM	50	0	21.37	21.46	21.35
		50	25	21.11	21.43	21.24
		50	50	21.20	21.32	21.25
		100	0	18.06	18.13	18.10
		1	0	21.14	21.48	21.20
		1	50	21.25	21.37	21.17
		1	99	21.18	21.22	21.25
20M	64QAM	50	0	20.11	20.31	20.18
		50	25	20.11	20.28	20.16
		50	50	19.99	20.22	20.01
		100	0	17.22	17.28	17.11
		1	0	18.42	18.68	18.52
		1	50	18.33	18.61	18.47
		1	99	18.20	18.31	18.18
20M	256QAM	50	0	18.43	18.44	18.39
		50	25	18.30	18.30	18.31
		50	50	18.25	18.40	18.10
		100	0	16.08	16.12	16.03



			l Tr	E Band 48		VERITAS
		DD Ci		1	Mid	NA: al
DIA.	MCS	RB Size	RB Offset	Low	Mid	Mid
BW	Index		nnel	55315	55990	56665
			cy (MHz)	3557.5	3625	3692.5
		1	0	22.92	23.14	23.06
		1	37	22.83	23.22	23.10
		1	74	22.99	23.12	22.99
15M	QPSK	36	0	22.28	22.29	22.25
		36	19	22.10	22.16	22.14
		36	39	21.95	22.15	21.94
		75	0	19.13	19.20	19.16
		1	0	22.18	22.28	22.30
		1	37	21.99	22.20	22.13
		1	74	22.08	22.08	22.25
15M	16QAM	36	0	21.40	21.52	21.28
		36	19	21.22	21.24	21.12
		36	39	21.01	21.28	21.28
		75	0	18.25	18.32	18.26
		1	0	21.23	21.31	21.15
		1	37	21.13	21.33	21.09
		1	74	21.09	21.10	20.99
15M	64QAM	36	0	20.09	20.42	20.09
		36	19	19.97	20.27	20.23
		36	39	20.05	20.07	20.10
		75	0	17.38	17.42	17.34
		1	0	18.42	18.60	18.50
		1	37	18.42	18.52	18.33
		1	74	18.17	18.44	18.24
15M	256QAM	36	0	18.24	18.57	18.28
		36	19	18.20	18.35	18.30
		36	39	18.07	18.14	18.17
		75	0	16.25	16.35	16.24

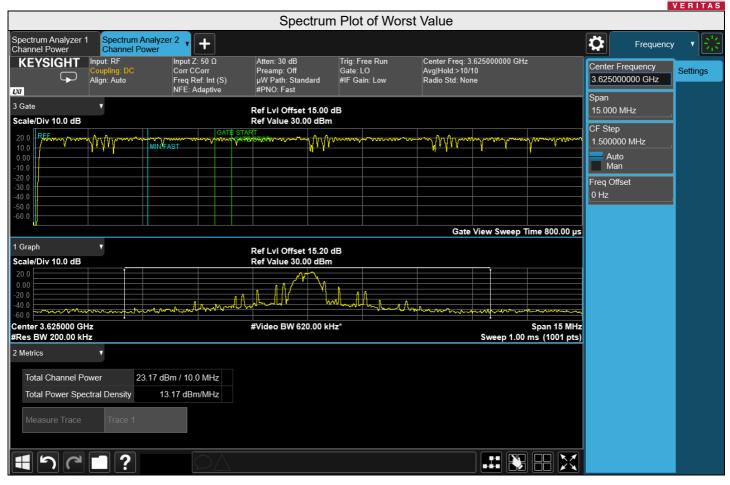


			1 7	Dond 10		VERITAS
		DD 0:	ı	E Band 48	N. C. C.	N. 42 - 1
	MCS	RB Size	RB Offset	Low	Mid	Mid
BW	Index		nnel	55290	55990	56690
			cy (MHz)	3555	3625	3695
		1	0	22.15	22.02	22.08
		1	24	22.03	21.96	21.91
		1	49	21.89	21.80	21.81
10M	QPSK	25	0	21.05	21.12	21.06
		25	12	21.01	21.02	20.93
		25	25	20.91	21.00	20.86
		50	0	20.93	21.00	20.97
		1	0	21.12	21.15	21.09
		1	24	20.99	20.97	20.96
	16QAM	1	49	20.87	20.68	20.82
10M		25	0	20.12	20.02	20.04
		25	12	19.95	19.89	20.01
		25	25	19.93	19.73	19.92
		50	0	19.98	19.69	19.93
		1	0	20.06	19.97	20.01
		1	24	19.98	19.91	20.00
		1	49	19.87	19.82	19.85
10M	64QAM	25	0	19.13	19.03	19.01
		25	12	18.94	18.91	18.94
		25	25	18.97	18.70	18.92
		50	0	18.94	18.86	18.91
		1	0	17.10	16.99	17.04
		1	24	17.02	16.82	16.97
		1	49	16.85	16.63	16.88
10M	256QAM	25	0	17.09	16.91	17.03
		25	12	16.98	16.83	16.94
		25	25	16.86	16.83	16.84
		50	0	16.84	16.91	16.85



			E Band 48		VERITAS	
		RB Size	RB Offset	Low	Mid	Mid
BW	MCS	Cha	nnel	55265	55990	56715
	Index	Frequen	cy (MHz)	3552.5	3625	3697.5
		1	0	22.07	21.94	22.02
		1	12	21.97	21.96	21.97
		1	24	21.91	21.76	21.91
5M	QPSK	12	0	21.08	21.01	21.10
		12	6	21.03	20.90	21.00
		12	13	20.95	20.92	20.92
		25	0	20.88	20.93	20.91
		1	0	21.13	21.09	21.06
		1	12	20.98	20.83	20.95
	16QAM	1	24	20.94	20.55	20.88
5M		12	0	20.06	19.92	20.03
		12	6	19.97	19.89	19.93
		12	13	19.94	19.70	19.91
		25	0	19.91	19.66	19.94
		1	0	20.11	19.95	20.01
		1	12	20.03	19.81	19.91
		1	24	19.85	19.79	19.90
5M	64QAM	12	0	19.15	18.92	19.11
		12	6	18.93	18.79	18.95
		12	13	18.96	18.70	18.90
		25	0	18.97	18.78	18.92
		1	0	17.14	16.89	17.01
		1	12	17.03	16.71	16.92
		1	24	16.85	16.48	16.83
5M	256QAM	12	0	17.07	16.90	16.98
		12	6	17.04	16.69	16.90
		12	13	16.92	16.79	16.92
		25	0	16.90	16.79	16.95







Full Conducted Output Power (dBm/20MHz)

			LTE	Band 48		
		RB Size	RB Offset	Low	Mid	Mid
BW	MCS Index	Cha	annel	55340	55990	56640
	IIIdex	Frequen	ıcy (MHz)	3560	3625	3690
		1	0	23.21	23.34	23.32
		1	50	23.11	23.42	23.20
		1	99	23.21	23.26	23.22
20M	QPSK	50	0	22.40	22.52	22.40
		50	25	22.28	22.44	22.33
		50	50	22.18	22.33	22.25
		100	0	22.18	22.35	22.27
		1	0	22.37	22.52	22.47
		1	50	22.27	22.44	22.34
		1	99	22.23	22.35	22.30
20M	16QAM	50	0	21.45	21.55	21.49
		50	25	21.35	21.46	21.35
		50	50	21.28	21.37	21.32
		100	0	21.27	21.38	21.34
		1	0	21.38	21.57	21.40
		1	50	21.39	21.46	21.39
		1	99	21.32	21.38	21.32
20M	64QAM	50	0	20.34	20.52	20.36
		50	25	20.29	20.45	20.34
		50	50	20.17	20.34	20.21
		100	0	20.13	20.38	20.23
		1	0	18.59	18.71	18.64
		1	50	18.54	18.64	18.56
		1	99	18.38	18.53	18.41
20M	256QAM	50	0	18.49	18.61	18.51
		50	25	18.44	18.54	18.52
		50	50	18.31	18.43	18.32
		100	0	18.35	18.42	18.35



Full Conducted Output Power (dBm/15MHz)

			LTE	Band 48		
		RB Size	RB Offset	Low	Mid	Mid
BW	MCS Index	Cha	innel	55315	55990	56665
	IIIdex	Frequen	cy (MHz)	3557.5	3625	3692.5
		1	0	23.12	23.37	23.24
		1	37	23.01	23.34	23.20
		1	74	23.17	23.18	23.20
15M	QPSK	36	0	22.36	22.49	22.37
		36	19	22.21	22.35	22.27
		36	39	22.09	22.27	22.15
		75	0	22.15	22.26	22.23
		1	0	22.36	22.44	22.39
		1	37	22.19	22.39	22.33
		1	74	22.22	22.27	22.30
15M	16QAM	36	0	21.45	21.55	21.47
		36	19	21.27	21.43	21.26
		36	39	21.20	21.32	21.32
		75	0	21.19	21.38	21.30
		1	0	21.31	21.48	21.33
		1	37	21.30	21.39	21.30
		1	74	21.30	21.35	21.24
15M	64QAM	36	0	20.30	20.46	20.27
		36	19	20.19	20.36	20.30
		36	39	20.12	20.27	20.15
		75	0	20.09	20.37	20.23
		1	0	18.55	18.70	18.55
		1	37	18.52	18.64	18.47
		1	74	18.33	18.48	18.36
15M	256QAM	36	0	18.41	18.60	18.49
		36	19	18.38	18.49	18.45
		36	39	18.28	18.39	18.32
		75	0	18.26	18.36	18.29



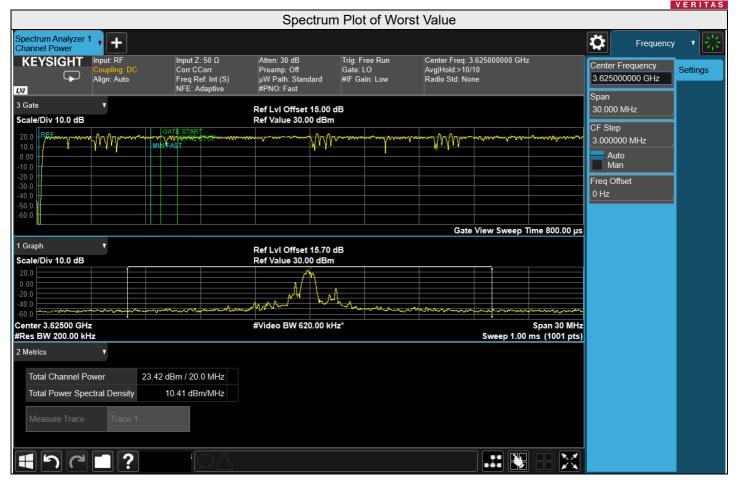
Full Conducted Output Power (dBm/10MHz)

			LTE	Band 48		
		RB Size	RB Offset	Low	Mid	Mid
BW	MCS Index	Cha	innel	55290	55990	56690
	IIIdex	Frequen	cy (MHz)	3555	3625	3695
		1	0	22.15	22.02	22.08
		1	24	22.03	21.96	21.91
		1	49	21.89	21.80	21.81
10M	QPSK	25	0	21.05	21.12	21.06
		25	12	21.01	21.02	20.93
		25	25	20.91	21.00	20.86
		50	0	20.93	21.00	20.97
		1	0	21.12	21.15	21.09
		1	24	20.99	20.97	20.96
		1	49	20.87	20.68	20.82
10M	16QAM	25	0	20.12	20.02	20.04
		25	12	19.95	19.89	20.01
		25	25	19.93	19.73	19.92
		50	0	19.98	19.69	19.93
		1	0	20.06	19.97	20.01
		1	24	19.98	19.91	20.00
		1	49	19.87	19.82	19.85
10M	64QAM	25	0	19.13	19.03	19.01
		25	12	18.94	18.91	18.94
		25	25	18.97	18.70	18.92
		50	0	18.94	18.86	18.91
		1	0	17.10	16.99	17.04
		1	24	17.02	16.82	16.97
		1	49	16.85	16.63	16.88
10M	256QAM	25	0	17.09	16.91	17.03
		25	12	16.98	16.83	16.94
		25	25	16.86	16.83	16.84
		50	0	16.84	16.91	16.85



	LTE Band 48									
		DD 0:		I .	N.C. 1					
	MCS	RB Size	RB Offset	Low	Mid	Mid				
BW	Index		innel	55265	55990	56715				
		Frequen	cy (MHz)	3552.5	3625	3697.5				
		1	0	22.07	21.94	22.02				
		1	12	21.97	21.96	21.97				
		1	24	21.91	21.76	21.91				
5M	QPSK	12	0	21.08	21.01	21.10				
		12	6	21.03	20.90	21.00				
		12	13	20.95	20.92	20.92				
		25	0	20.88	20.93	20.91				
		1	0	21.13	21.09	21.06				
		1	12	20.98	20.83	20.95				
		1	24	20.94	20.55	20.88				
5M	16QAM	12	0	20.06	19.92	20.03				
		12	6	19.97	19.89	19.93				
		12	13	19.94	19.70	19.91				
		25	0	19.91	19.66	19.94				
		1	0	20.11	19.95	20.01				
		1	12	20.03	19.81	19.91				
		1	24	19.85	19.79	19.90				
5M	64QAM	12	0	19.15	18.92	19.11				
		12	6	18.93	18.79	18.95				
		12	13	18.96	18.70	18.90				
		25	0	18.97	18.78	18.92				
		1	0	17.14	16.89	17.01				
		1	12	17.03	16.71	16.92				
		1	24	16.85	16.48	16.83				
5M	256QAM	12	0	17.07	16.90	16.98				
		12	6	17.04	16.69	16.90				
		12	13	16.92	16.79	16.92				
		25	0	16.90	16.79	16.95				







Maximum EIRP (dBm/10MHz)

			LTE	Band 48		
		RB Size	RB Offset	Low	Mid	Mid
BW	MCS Index	Cha	nnel	55340	55990	56640
	macx	Frequen	cy (MHz)	3560	3625	3690
		1	0	21.06	21.11	21.11
		1	50	21.02	21.17	21.09
		1	99	21.05	21.01	21.04
20M	QPSK	50	0	20.33	20.33	20.21
		50	25	20.10	20.26	20.14
		50	50	20.14	20.10	20.20
		100	0	16.93	16.99	16.95
		1	0	20.19	20.33	20.42
		1	50	20.08	20.40	20.22
		1	99	20.12	20.28	20.27
20M	16QAM	50	0	19.37	19.46	19.35
		50	25	19.11	19.43	19.24
		50	50	19.20	19.32	19.25
		100	0	16.06	16.13	16.10
		1	0	19.14	19.48	19.20
		1	50	19.25	19.37	19.17
		1	99	19.18	19.22	19.25
20M	64QAM	50	0	18.11	18.31	18.18
		50	25	18.11	18.28	18.16
		50	50	17.99	18.22	18.01
		100	0	15.22	15.28	15.11
		1	0	16.42	16.68	16.52
		1	50	16.33	16.61	16.47
		1	99	16.20	16.31	16.18
20M	256QAM	50	0	16.43	16.44	16.39
		50	25	16.30	16.30	16.31
		50	50	16.25	16.40	16.10
		100	0	14.08	14.12	14.03

^{*}EIRP (dBm/10MHz) = Conducted Output Power (dBm/10MHz) + Antenna Gain (dBi).



			LTE	E Band 48		VERITAS
		RB Size	RB Offset	Low	Mid	Mid
BW	MCS Index	Cha	nnel	55315	55990	56665
	ilidex	Frequen	cy (MHz)	3557.5	3625	3692.5
		1	0	20.92	21.14	21.06
		1	37	20.83	21.22	21.10
		1	74	20.99	21.12	20.99
15M	QPSK	36	0	20.28	20.29	20.25
		36	19	20.10	20.16	20.14
		36	39	19.95	20.15	19.94
		75	0	17.13	17.20	17.16
		1	0	20.18	20.28	20.30
		1	37	19.99	20.20	20.13
		1	74	20.08	20.08	20.25
15M	16QAM	36	0	19.40	19.52	19.28
		36	19	19.22	19.24	19.12
		36	39	19.01	19.28	19.28
		75	0	16.25	16.32	16.26
		1	0	19.23	19.31	19.15
		1	37	19.13	19.33	19.09
		1	74	19.09	19.10	18.99
15M	64QAM	36	0	18.09	18.42	18.09
		36	19	17.97	18.27	18.23
		36	39	18.05	18.07	18.10
		75	0	15.38	15.42	15.34
		1	0	16.42	16.60	16.50
		1	37	16.42	16.52	16.33
		1	74	16.17	16.44	16.24
15M	256QAM	36	0	16.24	16.57	16.28
		36	19	16.20	16.35	16.30
		36	39	16.07	16.14	16.17
		75	0	14.25	14.35	14.24

^{*}EIRP (dBm/10MHz) = Conducted Output Power (dBm/10MHz) + Antenna Gain (dBi).



			LTE	E Band 48		VERITAS
		RB Size	RB Offset	Low	Mid	Mid
BW	MCS	Cha	nnel	55290	55990	56690
	Index	Frequen	cy (MHz)	3555	3625	3695
		1	0	20.15	20.02	20.08
		1	24	20.03	19.96	19.91
		1	49	19.89	19.80	19.81
10M	QPSK	25	0	19.05	19.12	19.06
		25	12	19.01	19.02	18.93
		25	25	18.91	19.00	18.86
		50	0	18.93	19.00	18.97
		1	0	19.12	19.15	19.09
		1	24	18.99	18.97	18.96
	16QAM	1	49	18.87	18.68	18.82
10M		25	0	18.12	18.02	18.04
		25	12	17.95	17.89	18.01
		25	25	17.93	17.73	17.92
		50	0	17.98	17.69	17.93
		1	0	18.06	17.97	18.01
		1	24	17.98	17.91	18.00
		1	49	17.87	17.82	17.85
10M	64QAM	25	0	17.13	17.03	17.01
		25	12	16.94	16.91	16.94
		25	25	16.97	16.70	16.92
		50	0	16.94	16.86	16.91
		1	0	15.10	14.99	15.04
		1	24	15.02	14.82	14.97
		1	49	14.85	14.63	14.88
10M	256QAM	25	0	15.09	14.91	15.03
		25	12	14.98	14.83	14.94
		25	25	14.86	14.83	14.84
		50	0	14.84	14.91	14.85

^{*}EIRP (dBm/10MHz) = Conducted Output Power (dBm/10MHz) + Antenna Gain (dBi).



			I TE	E Band 48		VERITAS
		RB Size	RB Offset	Low	Mid	Mid
BW	MCS		annel	55265	55990	56715
DVV	Index					
			cy (MHz)	3552.5	3625	3697.5
		1		20.07	19.94	20.02
		1	12	19.97	19.96	19.97
	0.0014	1	24	19.91	19.76	19.91
5M	QPSK	12	0	19.08	19.01	19.10
		12	6	19.03	18.90	19.00
		12	13	18.95	18.92	18.92
		25	0	18.88	18.93	18.91
		1	0	19.13	19.09	19.06
		1	12	18.98	18.83	18.95
		1	24	18.94	18.55	18.88
5M	16QAM	12	0	18.06	17.92	18.03
		12	6	17.97	17.89	17.93
		12	13	17.94	17.70	17.91
		25	0	17.91	17.66	17.94
		1	0	18.11	17.95	18.01
		1	12	18.03	17.81	17.91
		1	24	17.85	17.79	17.90
5M	64QAM	12	0	17.15	16.92	17.11
		12	6	16.93	16.79	16.95
		12	13	16.96	16.70	16.90
		25	0	16.97	16.78	16.92
		1	0	15.14	14.89	15.01
		1	12	15.03	14.71	14.92
		1	24	14.85	14.48	14.83
5M	256QAM	12	0	15.07	14.90	14.98
		12	6	15.04	14.69	14.90
		12	13	14.92	14.79	14.92
		25	0	14.90	14.79	14.95

^{*}EIRP (dBm/10MHz) = Conducted Output Power (dBm/10MHz) + Antenna Gain (dBi).



Full Maximum EIRP (dBm/20MHz)

			LTE	Band 48		
		RB Size	RB Offset	Low	Mid	Mid
BW	MCS Index	Cha	nnel	55340	55990	56640
	IIIdex	Frequen	cy (MHz)	3560	3625	3690
		1	0	20.15	20.23	20.10
		1	50	20.04	20.14	20.00
		1	99	19.95	20.00	19.91
20M	QPSK	50	0	19.19	19.23	19.11
		50	25	19.03	19.18	19.03
		50	50	18.98	19.15	18.94
		100	0	19.14	19.12	19.01
		1	0	19.17	19.23	19.09
		1	50	19.03	19.13	19.00
		1	99	18.95	18.92	18.90
20M	16QAM	50	0	18.13	18.08	18.07
		50	25	18.04	18.05	17.99
		50	50	17.93	17.88	17.92
		100	0	17.94	17.95	17.95
		1	0	18.12	18.14	18.27
		1	50	18.03	18.06	18.18
		1	99	17.96	18.00	18.09
20M	64QAM	50	0	17.14	17.15	17.13
		50	25	17.07	17.09	17.04
		50	50	16.91	16.88	16.96
		100	0	17.02	16.99	16.95
		1	0	15.14	15.14	15.15
		1	50	15.05	15.05	15.08
		1	99	14.93	14.88	14.96
20M	256QAM	50	0	15.14	15.08	15.05
		50	25	14.93	14.95	14.97
		50	50	14.96	15.00	14.89
		100	0	14.97	15.01	14.92

^{*}EIRP (dBm/20MHz) = Conducted Output Power (dBm/20MHz) + Antenna Gain (dBi).



Full Maximum EIRP (dBm/15MHz)

			LTE	Band 48		
		RB Size	RB Offset	Low	Mid	Mid
BW	MCS Index	Channel		55315	55990	56665
	IIIdex	Frequen	cy (MHz)	3557.5	3625	3692.5
		1	0	20.15	20.16	20.07
		1	37	19.98	20.06	19.97
		1	74	19.85	19.90	19.84
15M	QPSK	36	0	19.15	19.15	19.08
		36	19	18.94	19.17	18.97
		36	39	18.94	19.07	18.91
		75	0	18.89	19.09	18.90
		1	0	19.13	19.18	19.03
		1	37	18.95	19.00	18.94
		1	74	18.90	18.78	18.84
15M	16QAM	36	0	18.07	18.08	18.04
		36	19	18.01	17.94	18.01
		36	39	17.93	17.85	17.89
		75	0	17.91	17.82	17.92
		1	0	18.13	17.99	18.01
		1	37	18.03	17.97	17.96
		1	74	17.92	17.86	17.89
15M	64QAM	36	0	17.05	17.03	17.08
		36	19	16.93	17.05	16.95
		36	39	16.92	16.80	16.91
		75	0	16.88	16.98	16.89
		1	0	15.14	15.08	15.00
		1	37	14.95	14.93	14.96
		1	74	14.93	14.74	14.88
15M	256QAM	36	0	15.03	15.02	14.97
		36	19	15.03	14.93	14.96
		36	39	14.91	14.98	14.90
		75	0	14.85	14.94	14.88

^{*}EIRP (dBm/15MHz) = Conducted Output Power (dBm/15MHz) + Antenna Gain (dBi).



Full Maximum EIRP (dBm/10MHz)

			LTE	Band 48		
		RB Size	RB Offset	Low	Mid	Mid
BW	MCS Index	Cha	nnel	55290	55990	56690
	macx	Frequen	cy (MHz)	3555	3625	3695
		1	0	20.15	20.02	20.08
		1	24	20.03	19.96	19.91
		1	49	19.89	19.80	19.81
10M	QPSK	25	0	19.05	19.12	19.06
		25	12	19.01	19.02	18.93
		25	25	18.91	19.00	18.86
		50	0	18.93	19.00	18.97
		1	0	19.12	19.15	19.09
		1	24	18.99	18.97	18.96
		1	49	18.87	18.68	18.82
10M	16QAM	25	0	18.12	18.02	18.04
		25	12	17.95	17.89	18.01
		25	25	17.93	17.73	17.92
		50	0	17.98	17.69	17.93
		1	0	18.06	17.97	18.01
		1	24	17.98	17.91	18.00
		1	49	17.87	17.82	17.85
10M	64QAM	25	0	17.13	17.03	17.01
		25	12	16.94	16.91	16.94
		25	25	16.97	16.70	16.92
		50	0	16.94	16.86	16.91
		1	0	15.10	14.99	15.04
		1	24	15.02	14.82	14.97
		1	49	14.85	14.63	14.88
10M	256QAM	25	0	15.09	14.91	15.03
		25	12	14.98	14.83	14.94
		25	25	14.86	14.83	14.84
		50	0	14.84	14.91	14.85

^{*}EIRP (dBm/10MHz) = Conducted Output Power (dBm/10MHz) + Antenna Gain (dBi).



			I TE	E Band 48		VERITAS
		RB Size	RB Offset	Low	Mid	Mid
BW	MCS		annel	55265	55990	56715
DVV	Index					
			cy (MHz)	3552.5	3625	3697.5
		1		20.07	19.94	20.02
		1	12	19.97	19.96	19.97
	0.0014	1	24	19.91	19.76	19.91
5M	QPSK	12	0	19.08	19.01	19.10
		12	6	19.03	18.90	19.00
		12	13	18.95	18.92	18.92
		25	0	18.88	18.93	18.91
		1	0	19.13	19.09	19.06
		1	12	18.98	18.83	18.95
		1	24	18.94	18.55	18.88
5M	16QAM	12	0	18.06	17.92	18.03
		12	6	17.97	17.89	17.93
		12	13	17.94	17.70	17.91
		25	0	17.91	17.66	17.94
		1	0	18.11	17.95	18.01
		1	12	18.03	17.81	17.91
		1	24	17.85	17.79	17.90
5M	64QAM	12	0	17.15	16.92	17.11
		12	6	16.93	16.79	16.95
		12	13	16.96	16.70	16.90
		25	0	16.97	16.78	16.92
		1	0	15.14	14.89	15.01
		1	12	15.03	14.71	14.92
		1	24	14.85	14.48	14.83
5M	256QAM	12	0	15.07	14.90	14.98
		12	6	15.04	14.69	14.90
		12	13	14.92	14.79	14.92
		25	0	14.90	14.79	14.95

^{*}EIRP (dBm/10MHz) = Conducted Output Power (dBm/10MHz) + Antenna Gain (dBi).

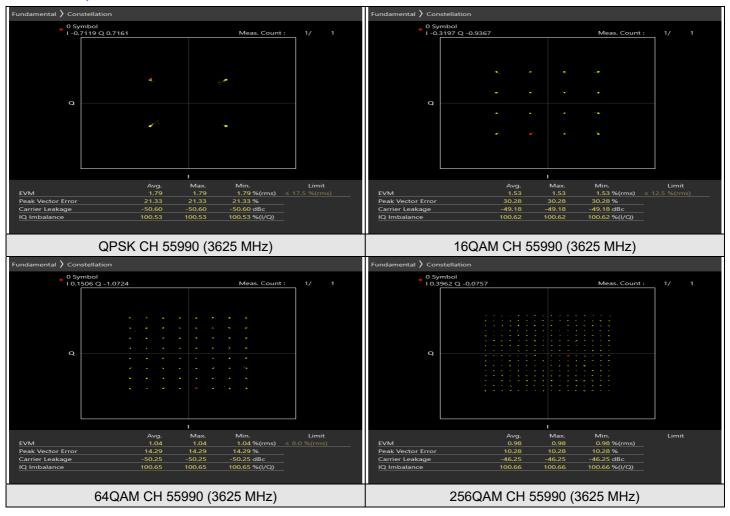


7.2 Modulation Characteristics

Input Power:	3.87 Vdc	Environmental Conditions:	22°C, 70% RH	Tested By:	Willy Cheng
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7.2.1 LTE Band 48

LTE Band 48, Channel Bandwidth: 20 MHz





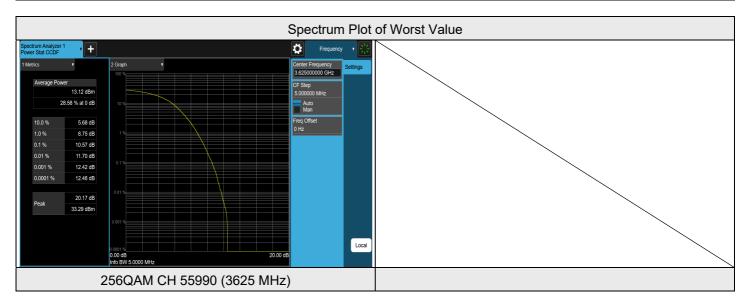
7.3 Peak to Average Ratio

Input Power:	3.87 Vdc	Environmental Conditions:	22°C, 70% RH	Tested By:	Willy Cheng
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7.3.1 LTE Band 48

LTE Band 48, Channel Bandwidth: 5 MHz

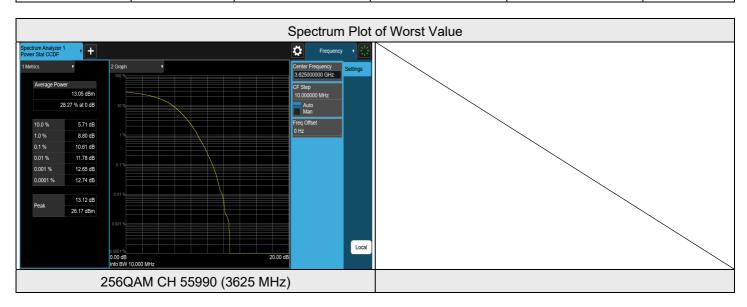
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	55265	3552.5	7.58	13	PASS
QPSK	55990	3625	7.60	13	PASS
QPSK	56715	3697.5	7.88	13	PASS
16QAM	55265	3552.5	8.32	13	PASS
16QAM	55990	3625	8.30	13	PASS
16QAM	56715	3697.5	8.38	13	PASS
64QAM	55265	3552.5	9.02	13	PASS
64QAM	55990	3625	9.19	13	PASS
64QAM	56715	3697.5	8.93	13	PASS
256QAM	55265	3552.5	9.56	13	PASS
256QAM	55990	3625	10.57	13	PASS
256QAM	56715	3697.5	10.26	13	PASS





LTE Band 48, Channel Bandwidth: 10 MHz

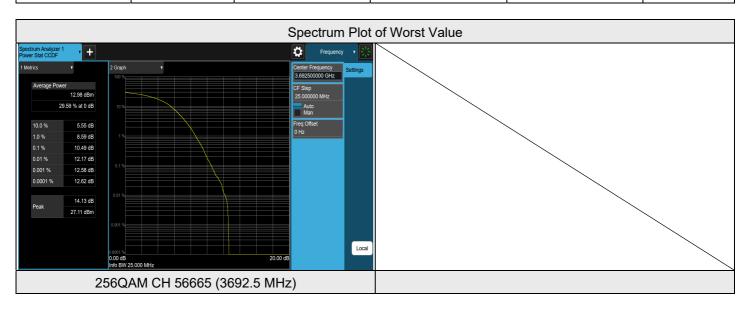
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	55290	3555	7.56	13	PASS
QPSK	55990	3625	7.45	13	PASS
QPSK	56690	3695	7.48	13	PASS
16QAM	55290	3555	8.27	13	PASS
16QAM	55990	3625	8.29	13	PASS
16QAM	56690	3695	8.19	13	PASS
64QAM	55290	3555	8.66	13	PASS
64QAM	55990	3625	9.74	13	PASS
64QAM	56690	3695	9.35	13	PASS
256QAM	55290	3555	9.35	13	PASS
256QAM	55990	3625	10.61	13	PASS
256QAM	56690	3695	10.18	13	PASS





LTE Band 48, Channel Bandwidth: 15 MHz

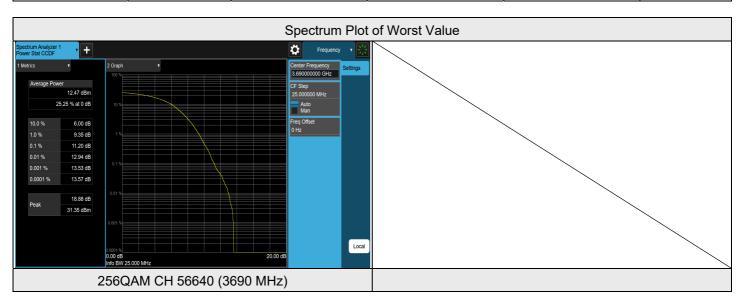
Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	55315	3557.5	8.61	13	PASS
QPSK	55990	3625	8.74	13	PASS
QPSK	56665	3692.5	7.13	13	PASS
16QAM	55315	3557.5	8.69	13	PASS
16QAM	55990	3625	8.87	13	PASS
16QAM	56665	3692.5	9.21	13	PASS
64QAM	55315	3557.5	8.60	13	PASS
64QAM	55990	3625	9.35	13	PASS
64QAM	56665	3692.5	9.41	13	PASS
256QAM	55315	3557.5	10.24	13	PASS
256QAM	55990	3625	9.83	13	PASS
256QAM	56665	3692.5	10.49	13	PASS





LTE Band 48, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Measurement Value(dB)	Limit (dB)	Result
QPSK	55340	3560	6.98	13	PASS
QPSK	55990	3625	7.88	13	PASS
QPSK	56640	3690	8.05	13	PASS
16QAM	55340	3560	9.14	13	PASS
16QAM	55990	3625	8.80	13	PASS
16QAM	56640	3690	9.32	13	PASS
64QAM	55340	3560	8.87	13	PASS
64QAM	55990	3625	9.05	13	PASS
64QAM	56640	3690	9.03	13	PASS
256QAM	55340	3560	9.86	13	PASS
256QAM	55990	3625	10.32	13	PASS
256QAM	56640	3690	11.20	13	PASS





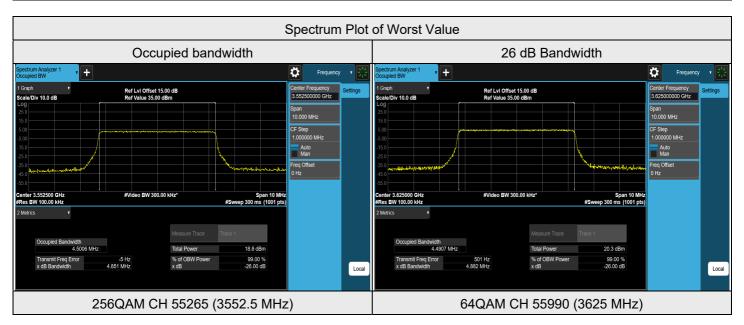
7.4 Bandwidth

Input Power:	3.87 Vdc	Environmental Conditions:	22°C, 70% RH	Tested By:	Willy Cheng
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7.4.1 LTE Band 48

LTE Band 48, Channel Bandwidth: 5 MHz

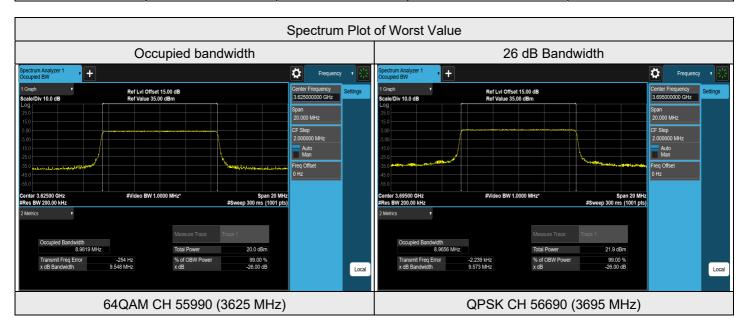
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	55265	3552.5	4.4860	4.819
QPSK	55990	3625	4.4937	4.870
QPSK	56715	3697.5	4.4914	4.873
16QAM	55265	3552.5	4.4919	4.859
16QAM	55990	3625	4.4884	4.867
16QAM	56715	3697.5	4.4922	4.879
64QAM	55265	3552.5	4.4926	4.873
64QAM	55990	3625	4.4907	4.882
64QAM	56715	3697.5	4.4921	4.840
256QAM	55265	3552.5	4.5006	4.851
256QAM	55990	3625	4.4926	4.857
256QAM	56715	3697.5	4.4911	4.864





LTE Band 48, Channel Bandwidth: 10 MHz

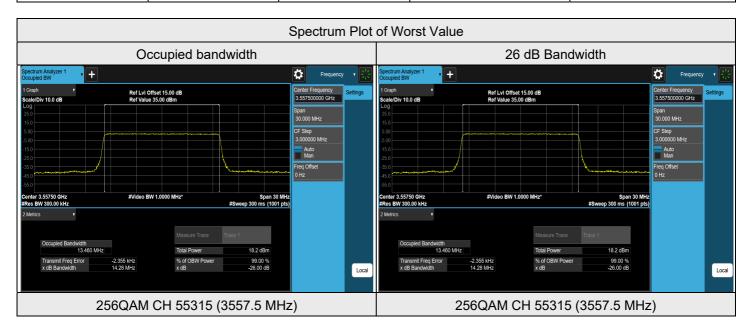
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	55290	3555	8.9717	9.560
QPSK	55990	3625	8.9695	9.535
QPSK	56690	3695	8.9656	9.573
16QAM	55290	3555	8.9752	9.562
16QAM	55990	3625	8.9633	9.534
16QAM	56690	3695	8.9785	9.563
64QAM	55290	3555	8.9759	9.528
64QAM	55990	3625	8.9819	9.548
64QAM	56690	3695	8.9156	9.521
256QAM	55290	3555	8.9775	9.517
256QAM	55990	3625	8.9793	9.507
256QAM	56690	3695	8.9702	9.535





LTE Band 48, Channel Bandwidth: 15 MHz

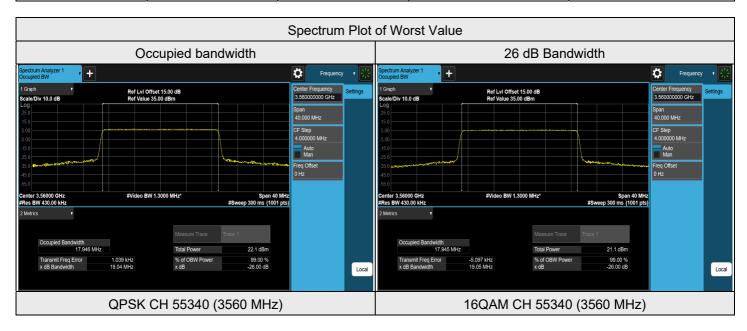
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	55315	3557.5	13.4523	14.255
QPSK	55990	3625	13.4496	14.254
QPSK	56665	3692.5	13.4457	14.279
16QAM	55315	3557.5	13.4488	14.257
16QAM	55990	3625	13.4533	14.245
16QAM	56665	3692.5	13.4550	14.246
64QAM	55315	3557.5	13.4520	14.253
64QAM	55990	3625	13.4399	14.240
64QAM	56665	3692.5	13.4498	14.239
256QAM	55315	3557.5	13.4602	14.283
256QAM	55990	3625	13.4474	14.252
256QAM	56665	3692.5	13.4443	14.252





LTE Band 48, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	55340	3560	17.9456	19.042
QPSK	55990	3625	17.9415	19.031
QPSK	56640	3690	17.9331	19.034
16QAM	55340	3560	17.9450	19.051
16QAM	55990	3625	17.9268	19.044
16QAM	56640	3690	17.9427	19.034
64QAM	55340	3560	17.9291	19.023
64QAM	55990	3625	17.9275	19.016
64QAM	56640	3690	17.9256	19.028
256QAM	55340	3560	17.9363	19.018
256QAM	55990	3625	17.9289	19.031
256QAM	56640	3690	17.9342	19.043



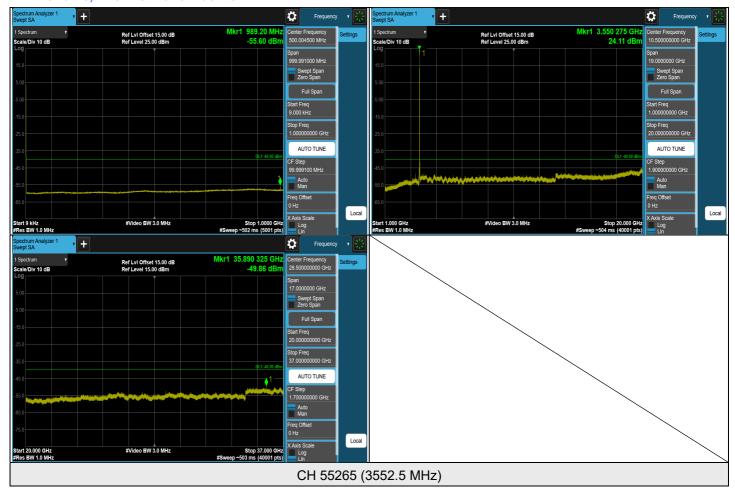


7.5 Conducted Spurious Emissions

Input Power:	3.87 Vdc	Environmental Conditions:	22°C, 70% RH	Tested By:	Willy Cheng
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7.5.1 LTE Band 48

LTE Band 48, Channel Bandwidth: 5 MHz

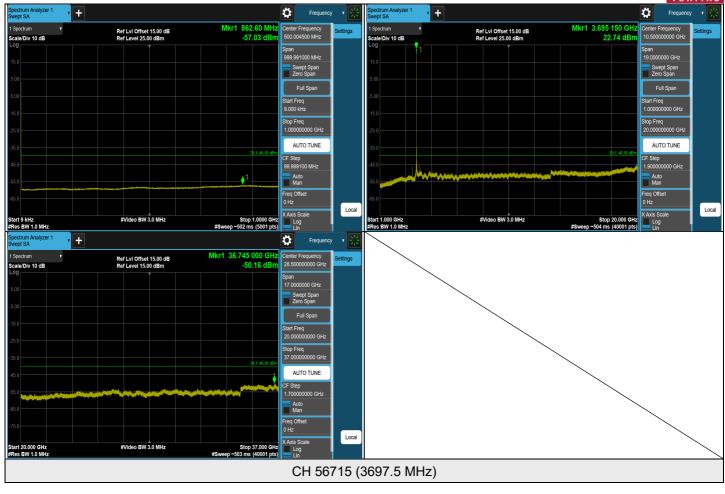


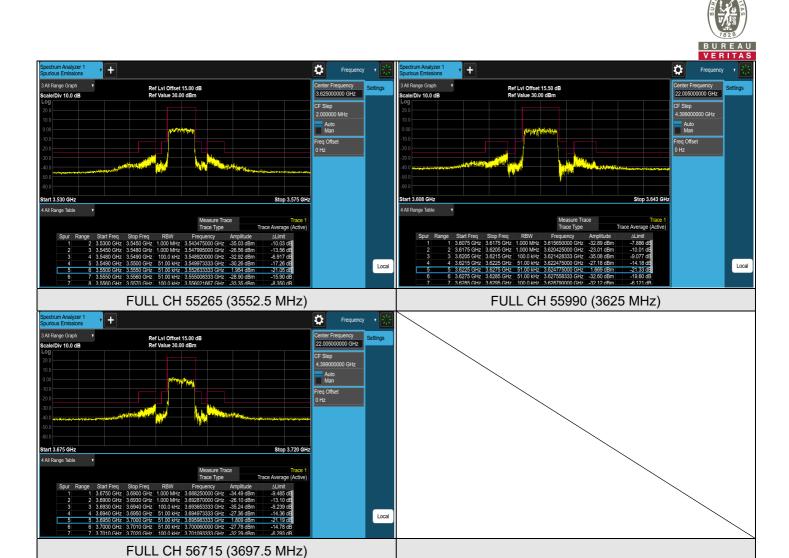


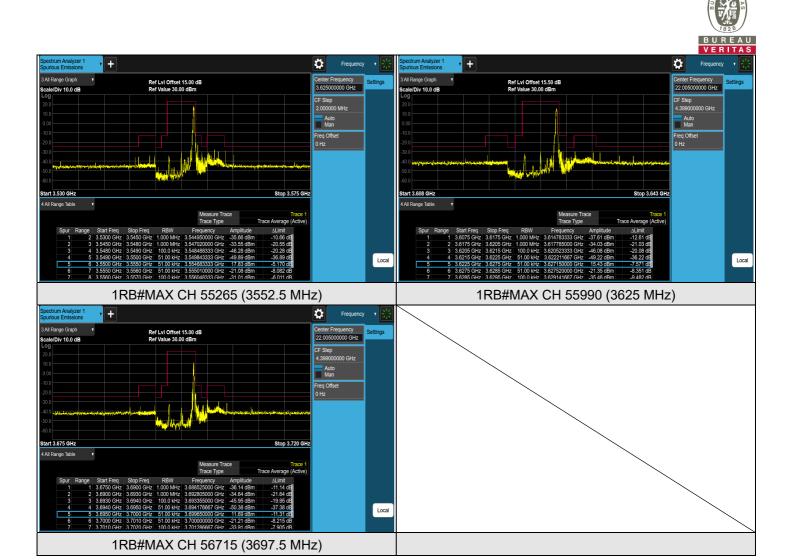
Local

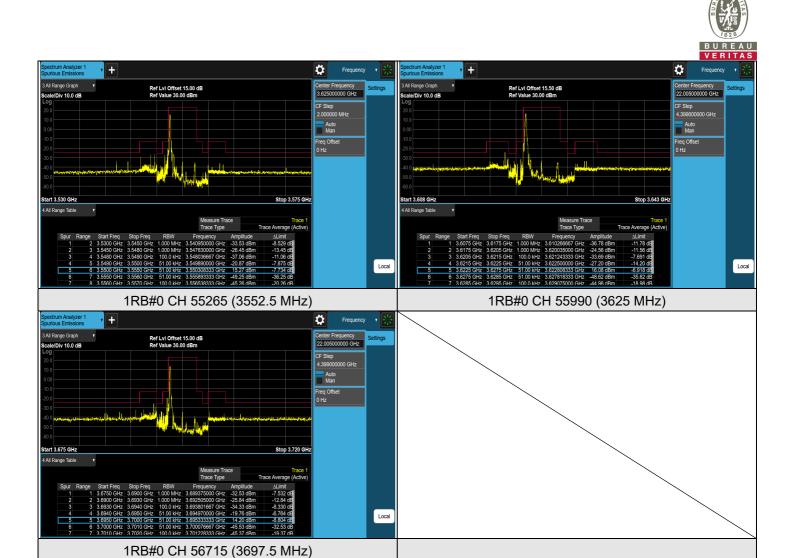
CH 55990 (3625 MHz)





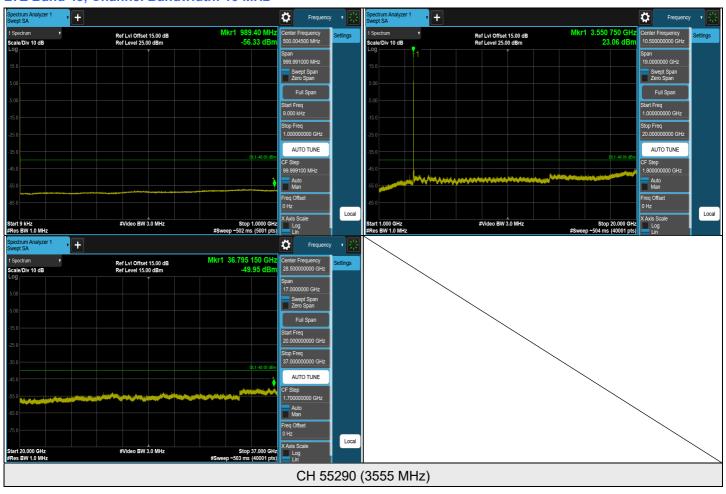


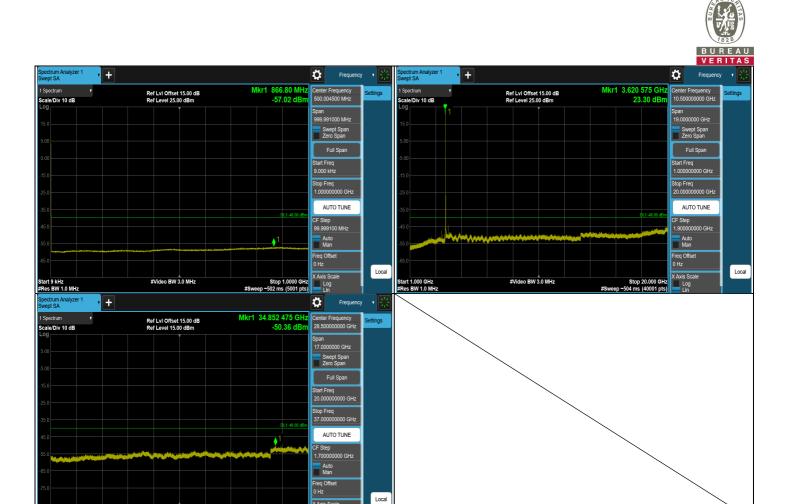




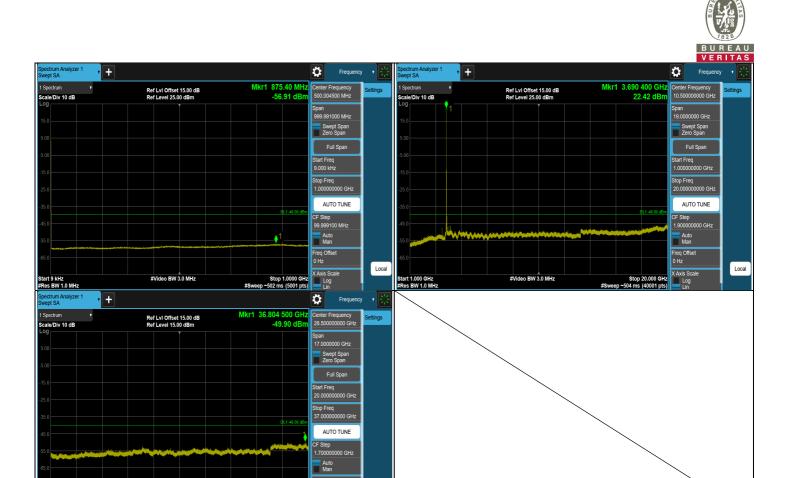


LTE Band 48, Channel Bandwidth: 10 MHz



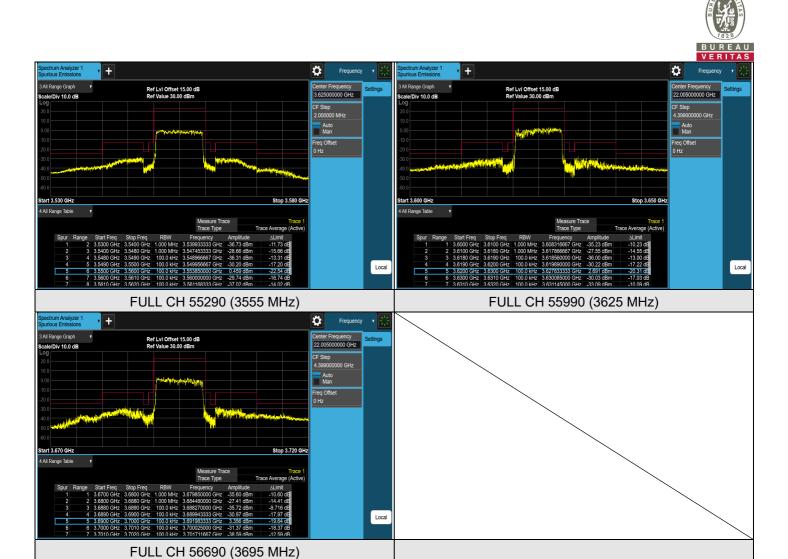


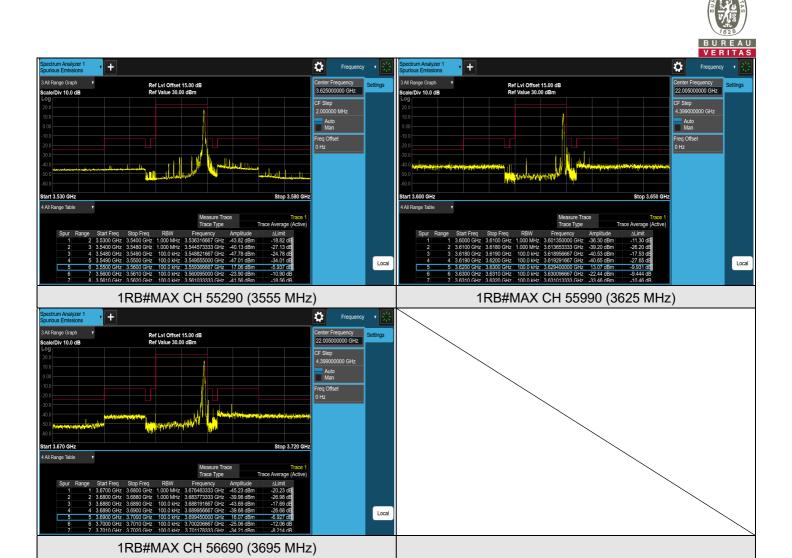
CH 55990 (3625 MHz)

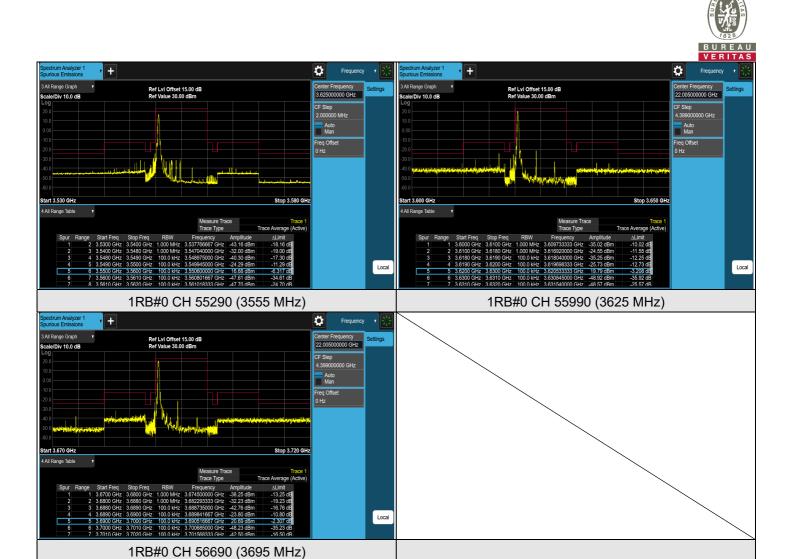


Local

CH 56690 (3695 MHz)



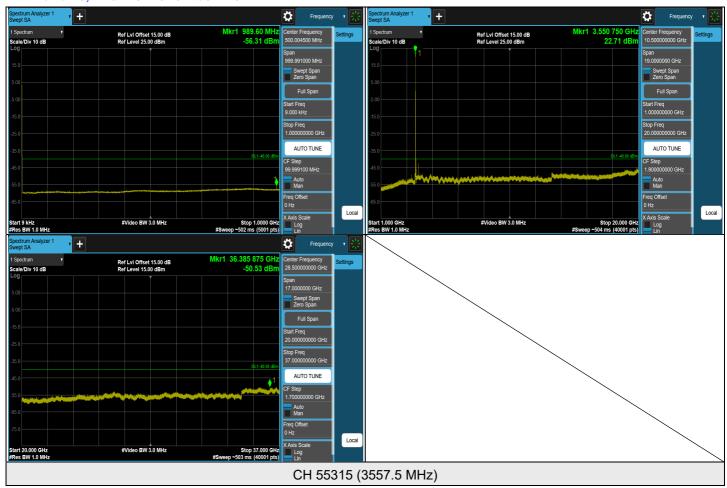


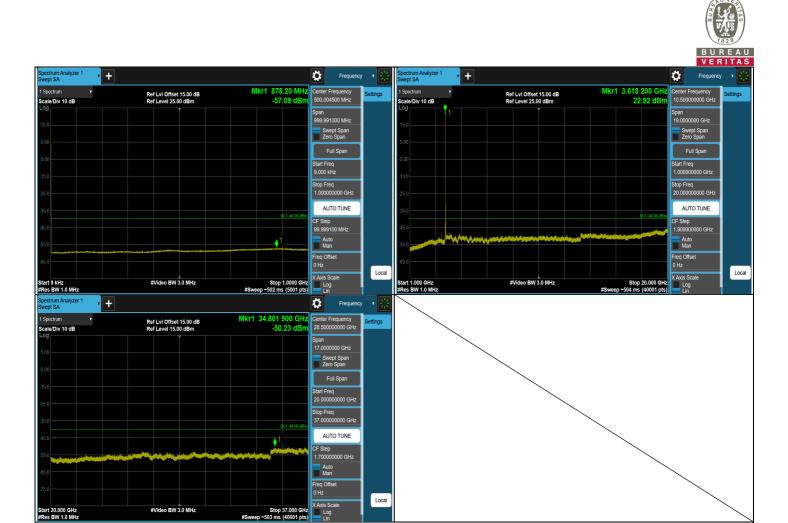


Report Format Version: 7.1.0



LTE Band 48, Channel Bandwidth: 15 MHz



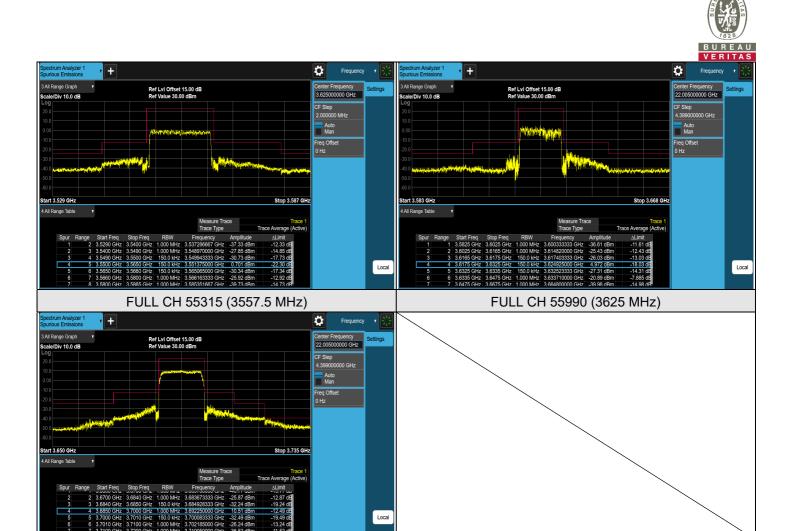


CH 55990 (3625 MHz)

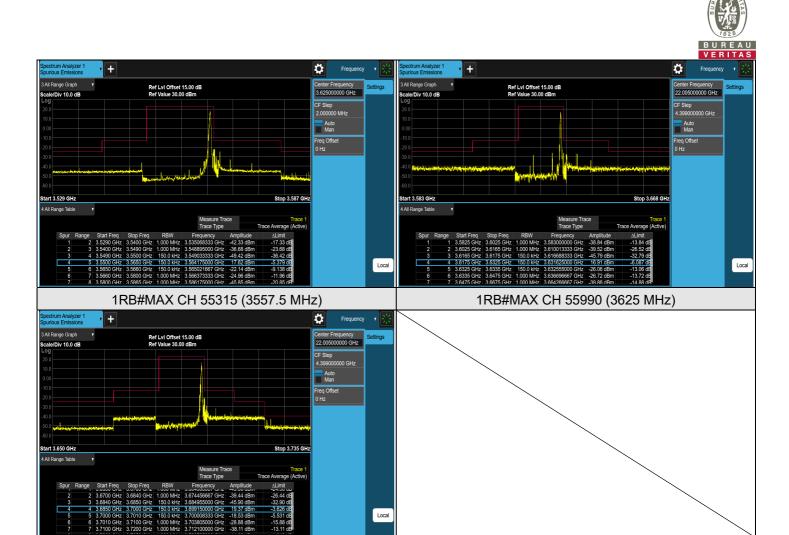


CH 56665 (3692.5 MHz)

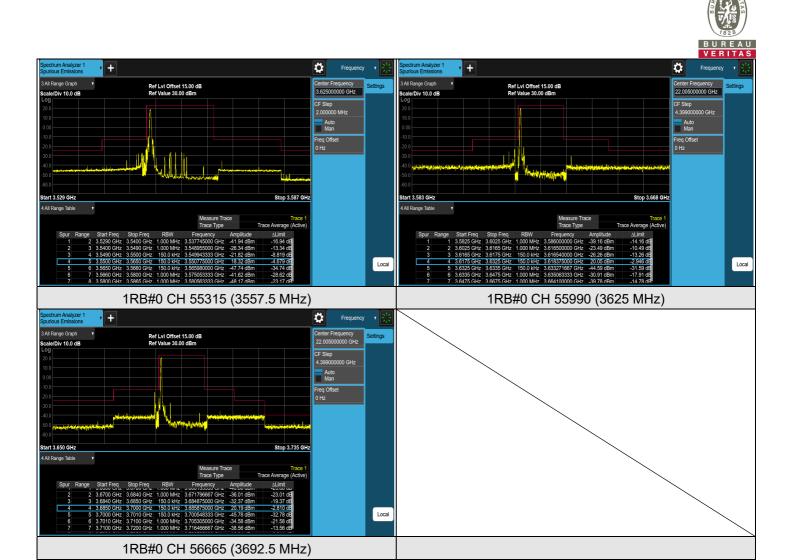
Report Format Version: 7.1.0



FULL CH 56665 (3692.5 MHz)



1RB#MAX CH 56665 (3692.5 MHz)





LTE Band 48, Channel Bandwidth: 20 MHz

