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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

0F

Applicant: Taiyo Yuden Co., Ltd.

8-1 Sakae-cyou Takasaki-shi Gunnma, Japan

Product Name: CatM1 Module

Brand Name: TAIYO YUDEN

Model No.: CL5ADAH2Z

Model Difference: N/A

Report Number: ER/2020/70059

FCC ID: RYYCL5AD

IC: 4389B-CL5AD

FCC Rule Part: 2, 22H & 24E & 27C & 90S

ISED Rule: RSS-130, 132, 133, 139

Issue Date: Nov. 11, 2020

Date of Test: Jul. 08, 2020 ~ Sep. 11, 2020

Date of EUT Received: Jul. 08, 2020

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Approved By:

Blue Yang / Asst. Manager

Mlen Lay





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Revision History						
Report Number	Revision	Description	Issue Date	Remark		
ER/2020/70059	Rev.00	Original.	Nov. 11, 2020	Revised By: Tiffany Kao		

Note:

1 · Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	CatM1 Module
Brand Name:	TAIYO YUDEN
Model No.:	CL5ADAH2Z
Model difference:	N/A
Hardware Version:	V_2_0
Software Version:	RK_02_01_02_00_94.
Power Supply:	3.6Vdc

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1.2 Frequency Range

1.2.1 Cat. M1

M1 Band	BW (MHz)	Operation F	reque	ncy (MHz)	M1 Band	BW (MHz)	Operation	n Frequer	ıcy (MHz)
	1.4	1850.7	-	1909.3		1.4	824.7	-	848.3
	3	1851.5	-	1908.5		3	825.5	-	847.5
2	5	1852.5	-	1907.5	26	5	826.5	-	846.5
2	10	1855.0	-	1905.0		10	829.0	-	844.0
	15	1857.5	-	1902.5		15	831.5	-	841.5
	20	1860.0	-	1900.0	26 Part90	1.4	814.7	-	823.3
	1.4	1710.7	-	1754.3		3	815.5	-	822.5
	3	1711.5	-	1753.5		5	816.5	-	821.5
4	5	1712.5	-	1752.5		10		819.0	
4	10	1715.0	-	1750.0					
	15	1717.5	-	1747.5					
	20	1720.0	-	1745.0					
	1.4	699.7	-	715.3					
12	3	700.5	-	714.5					
12	5	701.5	-	713.5					
	10	704.0	-	711.0					

Note: Operation frequency 814~824MHz is diabled in Canada

1.3 Antenna Designation

Antenna Type	Antenna Model No.	
Monopole	FMM800W-SMAP-L-A	

Operating Frequer	Peak Gain (dBi)	
M1-Band 2	1850.7 ~ 1909.3	2.63
M1-Band 26	824.7 ~ 848.3	1.9
M1-Band 26 Part 90	814.7 ~ 823.3	1.83

Antenna Type	Antenna Model No.
Monopole	T17-058-1070

Operating Frequ	Peak Gain (dBi)	
M1-Band 4	1710.7 ~ 1754.3	3
M1-Band 12	699.7 ~ 715.5	3

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279 f (886-2) 2298-0488 www.sgs.com.tw

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1.4 Type of Emission & Max ERP/EIRP Power Measurement Result:

1.4.1 Cat. M1

4.1 Cat. I	VI1								
M1 Band	BW	Frequ	uency	Modulation		/EIRP Bm)	(W)	99%	Type of Emission
2	1.4	1850.7	1909.3	QPSK	27.24	EIRP	0.530	1.1011	1M10G7D
2	1.4	1050.7	1650.7	16QAM	25.42	EIRP	0.348	1.1051	1M11D7W
0		10E1 E	1000 F	QPSK	27.26	EIRP	0.532	1.1512	1M15G7D
2	3	1851.5	1908.5	16QAM	25.37	EIRP	0.344	1.1620	1M16D7W
2	5	1852.5	1007.5	QPSK	27.15	EIRP	0.519	1.2345	1M23G7D
2	5	1002.0	1907.5	16QAM	26.73	EIRP	0.471	1.2303	1M23D7W
2	10	1055.0	1005.0	QPSK	27.11	EIRP	0.514	1.3891	1M39G7D
2	10	1855.0	1905.0	16QAM	26.66	EIRP	0.463	1.3554	1M36D7W
0	15	1057.5	4000 F	QPSK	26.81	EIRP	0.480	1.614	1M61G7D
2	15	1857.5	1902.5	16QAM	26.89	EIRP	0.489	1.686	1M69D7W
2	20	1860.0	1000.0	QPSK	26.84	EIRP	0.483	1.813	1M81G7D
2	20	1000.0	1900.0	16QAM	26.81	EIRP	0.480	1.948	1M95D7W
4	1.1	1710.7	1751 2	QPSK	27.53	EIRP	0.566	1.1018	1M10G7D
4	1.4	1710.7	1754.3	16QAM	26.16	EIRP	0.413	1.1045	1M10D7W
4		4744.5	47F0 F	QPSK	27.22	EIRP	0.527	1.1553	1M16G7D
4	3	1711.5	1753.5	16QAM	27.18	EIRP	0.522	1.1613	1M16D7W
4	_	4740 F	47E0 E	QPSK	27.58	EIRP	0.573	1.2301	1M23G7D
4	5	1712.5	1752.5	16QAM	27.25	EIRP	0.531	1.2302	1M23D7W
4	10	1715.0	1750.0	QPSK	27.44	EIRP	0.555	1.3972	1M40G7D
4	10	1715.0	1750.0	16QAM	26.46	EIRP	0.443	1.3653	1M37D7W
4	15	4747.5	1717 5	QPSK	27.43	EIRP	0.553	1.580	1M58G7D
4	15	1717.5	1747.5	16QAM	27.34	EIRP	0.542	1.611	1M61D7W
4	20	1720.0	1745.0	QPSK	27.51	EIRP	0.564	1.762	1M76G7D
4	20	1720.0	1745.0	16QAM	26.90	EIRP	0.490	1.764	1M76D7W
12	1.4	699.7	715.3	QPSK	24.30	ERP	0.269	1.1006	1M10G7D
12	1.4	099.7	715.5	16QAM	23.23	ERP	0.210	1.1102	1M11D7W
12	3	700.5	714.5	QPSK	24.33	ERP	0.271	1.1506	1M15G7D
12	°	700.5	7 14.5	16QAM	23.23	ERP	0.210	1.1463	1M15D7W
40	E	704 5	713.5	QPSK	24.34	ERP	0.272	1.2187	1M22G7D
12	5	701.5	113.5	16QAM	24.79	ERP	0.301	1.2164	1M22D7W
10	10	704.0	711.0	QPSK	24.67	ERP	0.293	1.3709	1M37G7D
12	12 10 704.0	704.0	U4.U / 11.U	16QAM	24.82	ERP	0.303	1.3626	1M36D7W

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QPSK 23.70 **ERP** 0.234 1.1077 1M11G7D 1.4 824.7 848.3 26 1M11D7W 16QAM 22.03 **ERP** 0.160 1.1068 **QPSK** 23.28 **ERP** 0.213 1.1494 1M15G7D 3 825.5 26 847.5 16QAM 22.02 **ERP** 0.159 1.1590 1M16D7W **QPSK** 23.36 **ERP** 0.217 1.2315 1M23G7D 26 5 826.5 846.5 16QAM 23.51 **ERP** 0.224 1.2292 1M23D7W **QPSK** 0.235 1.3822 23.71 **ERP** 1M38G7D 26 10 829.0 844.0 16QAM 23.55 **ERP** 0.226 1.3731 1M37D7W **QPSK** 23.36 **ERP** 0.217 2.088 2M09G7D 26 15 831.0 841.5 1.579 23.51 **16QAM ERP** 0.224 1M58D7W **QPSK** 23.51 **ERP** 0.224 1.1008 1M10G7D 26 1.4 814.7 823.3 (Part 90S) 16QAM 21.74 **ERP** 0.149 1.1088 1M11D7W **QPSK** 23.23 **ERP** 0.210 1.1517 1M15G7D 26 3 815.5 822.5 (Part 90S) 16QAM **ERP** 0.153 1.1663 1M17D7W 21.84 **QPSK** 23.47 **ERP** 0.222 1.2323 1M23G7D 26 5 816.5 822.5 (Part 90S) 16QAM 23.39 **ERP** 0.218 1.2311 1M23D7W **QPSK** 23.31 **ERP** 0.214 1.3561 1M36G7D 26 10 819.0 819.0 (Part 90S) 16QAM 23.42 **ERP** 0.220 1.3616 1M36D7W

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1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C, Part 90

ISED RSS-130 Issue 2 Feb. 2019,

ISED RSS-132 Issue 3 Jan. 2013

ISED RSS-133 Issue 6, Amendment 1 Jan. 18, 2018, ISED RSS-139 Issue 3 July 16, 2015

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

TS 151 010-1 is used to set, and measure the output power.

1.6 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

FCC Designation number: TW0027

ISED CAB identifier: TW3702

1.7 Special Accessories

No special accessories were used during testing.

1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

Radiated Emissions (ERP/EIRP) 2.3.2

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

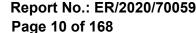
Following shows an offset computation in physical test.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	3.5	10	13.5
High Band (Above 1 GHz)	3.6	10	13.6

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2.5 Final Amplifier Voltage and Current Information:

2.5.1 Cat M1

M1 Band 2

WII Dullu Z		
Test mode	DC voltage (V)	DC current (mA)
M1 Band 2_1.4M QPSK	3.6	196
M1 Band 2_1.4M 16QAM	3.6	216
M1 Band 2_3M QPSK	3.6	220
M1 Band 2_3M 16QAM	3.6	197
M1 Band 2_5M QPSK	3.6	204
M1 Band 2_5M 16QAM	3.6	217
M1 Band 2_10M QPSK	3.6	214
M1 Band 2_10M 16QAM	3.6	214
M1 Band 2_15M QPSK	3.6	218
M1 Band 2_15M 16QAM	3.6	195
M1 Band 2_20M QPSK	3.6	200
M1 Band 2_20M 16QAM	3.6	220

M1 Rand 4

IVIT Dariu 4		
Test mode	DC voltage (V)	DC current (mA)
M1 Band 4_1.4M QPSK	3.6	211
M1 Band 4_1.4M 16QAM	3.6	202
M1 Band 4_3M QPSK	3.6	209
M1 Band 4_3M 16QAM	3.6	209
M1 Band 4_5M QPSK	3.6	202
M1 Band 4_5M 16QAM	3.6	197
M1 Band 4_10M QPSK	3.6	195
M1 Band 4_10M 16QAM	3.6	205
M1 Band 4_15M QPSK	3.6	195
M1 Band 4_15M 16QAM	3.6	213
M1 Band 4_20M QPSK	3.6	195
M1 Band 4_20M 16QAM	3.6	220

M1 Band 12

Test mode	DC voltage (V)	DC current (mA)
M1 Band 5_1.4M QPSK	3.6	217
M1 Band 5_1.4M 16QAM	3.6	192
M1 Band 5_3M QPSK	3.6	212
M1 Band 5_3M 16QAM	3.6	197
M1 Band 5_5M QPSK	3.6	215
M1 Band 5_5M 16QAM	3.6	217
M1 Band 5_10M QPSK	3.6	218
M1 Band 5_10M 16QAM	3.6	200
M1 Band 5_10M 64QAM	3.6	192

M1 Band 26

IVIT Datiu 20		
Test mode	DC voltage (V)	
M1 Band 26_1.4M QPSK	3.6	199
M1 Band 26_1.4M 16QAM	3.6	191
M1 Band 26_3M QPSK	3.6	200
M1 Band 26_3M 16QAM	3.6	205
M1 Band 26_5M QPSK	3.6	190
M1 Band 26_5M 16QAM	3.6	200
M1 Band 26_10M QPSK	3.6	193
M1 Band 26_10M 16QAM	3.6	201
M1 Band 26_15M QPSK	3.6	205
M1 Band 26_15M 16QAM	3.6	197

M1 Band 26 for Part 90S

WI Balla 20 lol I alt 703					
Test Mode	DC voltage (V)	DC current (mA)			
M1 Band 26_1.4M QPSK	3.6	190			
M1 Band 26_1.4M 16QAM	3.6	208			
M1 Band 26_3M QPSK	3.6	203			
M1 Band 26_3M 16QAM	3.6	211			
M1 Band 26_5M QPSK	3.6	211			
M1 Band 26_5M 16QAM	3.6	198			
M1 Band 26_10M QPSK	3.6	217			
M1 Band 26_10M 16QAM	3.6	210			

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prosecuted to the fullest extent of the law.

台灣檢驗科技股份有限公司





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2.6 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)

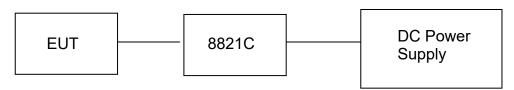
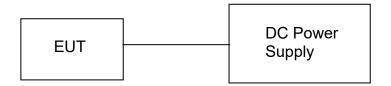


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side

8821C

Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model / Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyer	Anritsu	MT8821C	6261786084	shielded	Un-shielded
2.	DC Power Supply	Agilent	E3640A	MY40000811	shielded	Un-shielded

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SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	RSS-GEN §6.12	RF Power Output	Compliant
§22.913(a)(5) §24.232(c) §27.50(c)(9) §27.50(d)(4) §90.635(b)	RSS-130 §4.6 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.5	ERP/ EIRP measurement	Compliant
§2.1049(h)	RSS-GEN §6.7	99% & 26dB Occuupied Bandwidth	Compliant
§2.1051 §22.917(a)(b) §24.238(a) §27.53(g) §27.53(h) §90.691(a)(1)	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §2.1057(a)(1) §22.917(a) §24.238(a) §27.53(g) §27.53(h) §90.691(a)(1)	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50 (B)	RSS-130 §4.6.1 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.5	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	RSS-130 §4.5 RSS-132 §5.3 RSS-133 §6.3 RSS-139 §6.4	Frequency Stability	Compliant

DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Configuration

- 1. The EUT has been tested under operating condition.
- 2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

EUT	Serial Number	Note
CatM1 Module	355950100010914	N/A

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4.2 Cat M1

M1 Band 2

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
FIDD	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
EIRP	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STA- BILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM,	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	Full RB
WIDTH	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	Full RB
	18607 to 19193	18607, 18900, 19193	1.4MHz	16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	16QAM	Full RB
PEAK TO AVERAGE	18625 to 19175	18625, 18900, 19175	5MHz	16QAM	Full RB
RATIO	18650 to 19150	18650, 18900, 19150	10MHz	16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	16QAM	Full RB
	18607 to 19193	18607, 19193	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
BAND EDGE	18650 to 19150	18650, 19150	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
CONDCUDETED EMISSION	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	18615 to 19185	18615, 18900, 19185	3MHz	QPSK	1 RB, 0 RB Offest

Remark: Maximum RB allocation is 6 RB, 0RB offset.

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M1 Band 4

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
LIDD	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
EIRP	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STA- BILITY	20000 to 20350	20175	10MHz	QPSK,	Full RB
	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM,	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	Full RB
WIDTH	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	Full RB
	19957 to 19393	19957, 20175, 19393	1.4MHz	16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	16QAM	Full RB
PEAK TO AVERAGE	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	Full RB
RATIO	20000 to 20350	20000, 20175, 20350	10MHz	16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	16QAM	Full RB
	19957 to 19393	19957, 19393	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
BAND EDGE	20000 to 20350	20000, 20350	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK,	1 RB, 0 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK,	1 RB, 0 RB Offest
CONDCUDETED	19975 to 20375	19975, 20175, 20375	5MHz	QPSK,	1 RB, 0 RB Offest
EMISSION	20000 to 20350	20000, 20175, 20350	10MHz	QPSK,	1 RB, 0 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK,	1 RB, 0 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS- SION	19975 to 20375	19975, 20175, 20375	5MHz	QPSK,	1 RB, 0 RB Offest

Remark: Maximum RB allocation is 6 RB, 0RB offset.

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M1 Band 12

Band 12					
TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
ERP	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
ERP	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23060 to 23130	23095	10MHz	QPSK,	Full RB
	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM,	Full RB
OCCUPIED	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	Full RB
BANDWIDTH	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	Full RB
	23017 to 23173	23017, 23095, 23173	1.4MHz	16QAM	Full RB
PEAK TO AV-	23025 to 23165	23025, 23095, 23165	3MHz	16QAM	Full RB
ERAGE RATIO	23035 to 23155	23035, 23095, 23155	5MHz	16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	16QAM	Full RB
	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
BAND EDGE	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCU-	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB, 0 RB Offest
DETED EMIS-	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB, 0 RB Offest
SION	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23060 to 23130	23060, 23095, 23130	10MHz	16QAM	1 RB, 0 RB Offest

Remark: Maximum RB allocation is 6 RB, 0RB offset.

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SCST Taywan Ltd* No. 134 Weeking Road New Tainei Industrial Park, Weeking Taywan Tainei City, Taiwan Keith & Tawan Keith



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M1 Band 26 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
ERP	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
FREQUENCY STA- BILITY	26865 to 26965	26915	15MHz	QPSK,	Full RB
	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	Full RB
WIDTH	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	Full RB
MIDIH	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	Full RB
	26797 to 27033	26797, 26915, 27033	1.4MHz	16QAM	Full RB
PEAK TO AVERAGE	26805 to 27025	26805, 26915, 27025	3MHz	16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	16QAM	Full RB
RATIO	26840 to 26990	26840, 26915, 26990	10MHz	16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	16QAM	Full RB
	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
BAND EDGE	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB/ 0,74 RB Offest
	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB, 0 RB Offest
CONDCUDETED	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB, 0 RB Offest
CONDCUDETED	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB, 0 RB Offest
EMISSION	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB, 0 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMIS- SION	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB, 0 RB Offest

Remark: Maximum RB allocation is 6 RB, 0RB offset.

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M1 Band 26 for 90S MODE

VII Dallu 20 IUI 90					
TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
ERP	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
LKF	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26740	26740	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STA- BILITY	26697 to 26783	26740	1.4MHz	QPSK,	Full RB
	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	Full RB
WIDTH	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	Full RB
	26740	26740	10MHz	QPSK, 16QAM	Full RB
	26697 to 26783	26697, 26740, 26783	1.4MHz	16QAM	Full RB
PEAK TO AVERAGE	26705 to 26775	26705, 26740, 26775	3MHz	16QAM	Full RB
RATIO	26715 to 26765	26715, 26740, 26765	5MHz	16QAM	Full RB
	26740	26740	10MHz	16QAM	Full RB
	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
EMISSION MASK	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26740	26740	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB, 0 RB Offest
CONDCUDETED	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB, 0 RB Offest
EMISSION	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB, 0 RB Offest

Remark: Maximum RB allocation is 6 RB, 0RB offset.

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MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization =+/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC=+/- 0.2%

Radiated Spurious Emission:

	9kHz – 30MHz: +/- 2.87 dB
Management up a estainte	30MHz - 180MHz: +/- 3.37dB
Measurement uncertainty (Polarization : Vertical)	180MHz -417MHz: +/- 3.19dB
(1 Statization : Voltion)	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

	9kHz – 30MHz: +/- 2.87 dB
NA	30MHz - 167MHz: +/- 4.22dB
Measurement uncertainty (Polarization : Horizontal)	167MHz -500MHz: +/- 3.44dB
(1 Glanzation : Horizontal)	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 MAXMUM OUTPUT POWER

6.1 Standard Applicable

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

6.2 FCC ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(c)

(9) Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

FCC 90.635(b)

Mobile station is limited to 100W ERP

RSS-130 §4.6

The e.r.p. shall not exceed 3 watts for mobile equipment, fixed subscriber equipment and portable equipment operating in the Band 617-652 and 663-698MHz.

RSS-132 §5.4

The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment in operating in the Bands 824-849 and 869-894MHz shall not exceed 11.5 watts.

RSS-133 §6.4

The equivalent isotropically radiated power (e.i.r.p.) for transmitters shall not exceed the limits given in SRSP-510.

According to section 5.1.2 of SRSP-510, Mobile stations and hand-held portables are limited to 2 watts maximum e.i.r.p. The equipment shall employ means to limit the power to the minimum necessary for successful communication.

RSS-139 §6.5

The equivalent isotropically radiated power (e.i.r.p.) for mobile and portable transmitters in the Bands 1710-1780MHz shall not exceed one watt.

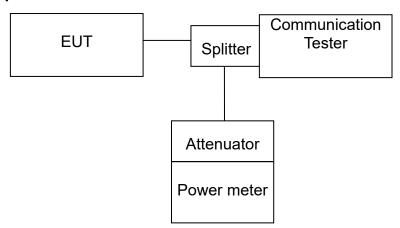
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6.3 Test Set-up



Note: Measurement setup for testing on Antenna connector

6.4 Output Power Measurement Applicable Guideance

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the measurement of output power. The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results. WAll bands conducted average power is obtained from

6.5 Determining ERP and/or EIRP from conducted RF output power measurements

ERP/EIRP = PMeas + GT-LC

the simulator telecommunication test set.

Where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the

same units as PMeas, typically dBW or dBm);

= measured transmitter output power or PSD, in dBm or dBW; **PMeas** = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP) GT

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

antenna, in dB.2

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

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6.6 Measurement Equipment Used

Conduc	ted Emission	(measured at a	ntenna port)	Test Site	
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
Radio Communication Analyer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412- 018	01/02/2020	01/01/2021

6.7 Measurement Result

6.7.1 Cat M1

Antenna gain (dBi) 2.63

Antenna	, , ,		M1	Band 2_Uplink	frequency ba	ind: 1850 to	1910 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	0	24.61	27.24	33	-5.76
	18607	1850.7	QPSK	1	5	0	24.58	27.21	33	-5.79
				6	0	0	20.78	23.41	33	-9.59
				1	0	0	24.08	26.71	33	-6.29
	18900	1880	QPSK	1	5	0	24.04	26.67	33	-6.33
				6	0	0	21.39	24.02	33	-8.98
				1	0	0	24.41	27.04	33	-5.96
	19193	1909.3	QPSK	1	5	0	24.40	27.03	33	-5.97
1.4				6	0	0	21.75	24.38	33	-8.62
1.4				1	0	11	22.79	25.42	33	-7.58
	18607	1850.7	16QAM	1	5	11	22.68	25.31	33	-7.69
				6	0	11	21.79	24.42	33	-8.58
				1	0	11	22.46	25.09	33	-7.91
	18900	1880	16QAM	1	5	11	22.38	25.01	33	-7.99
				6	0	11	21.46	24.09	33	-8.91
				1	0	11	22.65	25.28	33	-7.72
	19193	1909.3	16QAM	1	5	11	22.62	25.25	33	-7.75
				6	0	11	20.69	23.32	33	-9.68

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Antenna gain (dRi) 2.63

Antenna	gaiii (abi)	2.03	M1	Band 2_Uplinl	c frequency ba	and : 1850 to 1	910 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	0	24.63	27.26	33	-5.74
	18615	1851.5	QPSK	1	5	0	24.57	27.20	33	-5.8
				6	0	0	22.12	24.75	33	-8.25
				1	0	0	23.99	26.62	33	-6.38
	18900	1880	QPSK	1	5	0	23.97	26.60	33	-6.4
				6	0	0	21.58	24.21	33	-8.79
				1	0	0	24.40	27.03	33	-5.97
	19185	1908.5	QPSK	1	5	0	24.39	27.02	33	-5.98
3				6	0	0	22.01	24.64	33	-8.36
				1	0	11	22.74	25.37	33	-7.63
	18615	1851.5	16QAM	1	5	11	22.71	25.34	33	-7.66
				6	0	11	21.98	24.61	33	-8.39
				1	0	11	22.45	25.08	33	-7.92
	18900	1880	16QAM	1	5	11	22.37	25.00	33	-8
				6	0	11	21.41	24.04	33	-8.96
				1	0	11	22.67	25.30	33	-7.7
	19185	19185 1908.5	16QAM	1	5	11	22.57	25.20	33	-7.8
				6	0	11	21.56	24.19	33	-8.81

Antenna gain (dBi) 2.63

			M1	Band 2_Uplinl	k frequency ba	and : 1850 to 19	910 MHz																				
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)																	
				1	0	0	24.52	27.15	33	-5.85																	
	18625	1852.5	QPSK	1	5	0	24.50	27.13	33	-5.87																	
				6	0	0	23.15	25.78	33	-7.22																	
				1	0	0	24.09	26.72	33	-6.28																	
	18900	1880	QPSK	1	5	0	24.06	26.69	33	-6.31																	
				6	0	0	22.66	25.29	33	-7.71																	
				1	0	0	24.38	27.01	33	-5.99																	
	19175	1907.5	QPSK	1	5	0	24.37	27.00	33	-6																	
5				6	0	0	22.93	25.56	33	-7.44																	
				1	0	11	23.56	26.19	33	-6.81																	
	18625	1852.5	16QAM	1	5	11	23.57	26.20	33	-6.8																	
				6	0	11	21.80	24.43	33	-8.57																	
				1	0	11	24.10	26.73	33	-6.27																	
	18900	1880	16QAM	1	5	11	24.10	26.73	33	-6.27																	
				6	0	11	21.54	24.17	33	-8.83																	
			.5 16QAM	1	0	11	23.32	25.95	33	-7.05																	
	19175	1907.5		16QAM	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM	1	5	11	24.08	26.71	33
				6	0	11	21.51	24.14	33	-8.86																	

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Antenna gain (dBi) 2.63

, unconnic	<u>, , , , , , , , , , , , , , , , , , , </u>		M1	Band 2_Uplink	c frequency ba	and: 1850 to 1	910 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	0	24.48	27.11	33	-5.89
	18650	1855	QPSK	1	5	0	24.45	27.08	33	-5.92
				6	0	0	23.10	25.73	33	-7.27
				1	0	0	24.03	26.66	33	-6.34
	18900	1880	QPSK	1	5	0	24.02	26.65	33	-6.35
				6	0	0	22.65	25.28	33	-7.72
				1	0	0	24.35	26.98	33	-6.02
	19150 1905	1905	QPSK	1	5	0	24.35	26.98	33	-6.02
10				6	0	0	22.79	25.42	33	-7.58
10				1	0	11	23.49	26.12	33	-6.88
	18650	1855	16QAM	1	5	11	23.53	26.16	33	-6.84
				6	0	11	21.62	24.25	33	-8.75
				1	0	11	24.03	26.66	33	-6.34
	18900	1880	16QAM	1	5	11	23.08	25.71	33	-7.29
				6	0	11	21.36	23.99	33	-9.01
				1	0	11	23.20	25.83	33	-7.17
	19150	1905	16QAM	1	5	11	23.21	25.84	33	-7.16
				6	0	11	21.51	24.14	33	-8.86

Antenna gain (dBi) 2.63

			M1	Band 2_Uplinl	k frequency ba	and : 1850 to 1	910 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	0	24.18	26.81	33	-6.19
	18675	1857.5	QPSK	1	5	0	24.16	26.79	33	-6.21
				6	0	0	23.97	26.60	33	-6.4
				1	0	0	24.05	26.68	33	-6.32
	18900	1880	QPSK	1	5	0	24.03	26.66	33	-6.34
				6	0	0	23.59	26.22	33	-6.78
				1	0	0	23.94	26.57	33	-6.43
	19125	1902.5	2.5 QPSK	1	5	0	23.92	26.55	33	-6.45
15				6	0	0	23.74	26.37	33	-6.63
15				1	0	11	23.68	26.31	33	-6.69
	18675	1857.5	16QAM	1	5	11	24.26	26.89	33	-6.11
				6	0	11	23.88	26.51	33	-6.49
				1	0	11	24.11	26.74	33	-6.26
	18900	1880	16QAM	1	5	11	24.15	26.78	33	-6.22
				6	0	11	23.42	26.05	33	-6.95
				1	0	11	24.15	26.78	33	-6.22
	19125 1902.5	16QAM	1	5	11	23.23	25.86	33	-7.14	
				6	0	11	23.53	26.16	33	-6.84

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Antenna gain ('dRi)	2.63
Antenna yani (udi)	2.03

Antenna	y (* ,	2.03	M1	Band 2_Uplink	c frequency ba	nd: 1850 to 1	1910 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	0	24.21	26.84	33	-6.16
	18700	1860	QPSK	1	5	0	24.18	26.81	33	-6.19
				6	0	0	23.95	26.58	33	-6.42
				1	0	0	23.96	26.59	33	-6.41
	18900	1880	QPSK	1	5	0	23.94	26.57	33	-6.43
				6	0	0	23.57	26.20	33	-6.8
				1	0	0	24.10	26.73	33	-6.27
	19100	1900	QPSK	1	5	0	24.07	26.70	33	-6.3
20				6	0	0	23.72	26.35	33	-6.65
20				1	0	11	23.47	26.10	33	-6.9
	18700	1860	16QAM	1	5	11	23.48	26.11	33	-6.89
				6	0	11	23.81	26.44	33	-6.56
				1	0	11	24.14	26.77	33	-6.23
	18900	1880	16QAM	1	5	11	24.09	26.72	33	-6.28
				6	0	11	23.22	25.85	33	-7.15
				1	0	11	23.02	25.65	33	-7.35
	19100	1900	16QAM	1	5	11	24.18	26.81	33	-6.19
				6	0	11	23.34	25.97	33	-7.03

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Antenna gain (dBi)

Antenna gain (dBi)		3	M4 D	and A. Harlinda	£	- 1 1710 1- 17	TET BALL			
			M1 Ba	ina 4_Uplink	frequency bar	na : 1/10 to 17				
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	0	24.34	27.34	30	-2.66
	19957	1710.7	QPSK	1	5	0	24.31	27.31	30	-2.69
				6	0	0	21.93	24.93	30	-5.07
				1	0	0	24.05	27.05	30	-2.95
	20175	1732.5	QPSK	1	5	0	23.97	26.97	30	-3.03
				6	0	0	21.61	24.61	30	-5.39
				1	0	0	24.53	27.53	30	-2.47
	20393	1754.3	QPSK	1	5	0	24.44	27.44	30	-2.56
1.4				6	0	0	22.06	25.06	30	-4.94
1.4				1	0	11	23.16	26.16	30	-3.84
	19957	1710.7	16QAM	1	5	11	23.07	26.07	30	-3.93
				6	0	11	21.18	24.18	30	-5.82
				1	0	11	22.94	25.94	30	-4.06
	20175	1732.5	16QAM	1	5	11	22.87	25.87	30	-4.13
				6	0	11	21.95	24.95	30	-5.05
				1	0	11	23.02	26.02	30	-3.98
	20393	1754.3	16QAM	1	5	11	22.97	25.97	30	-4.03
		Ì		6	0	11	22.03	25.03	30	-4.97

Antenna gain (dBi)		3								
			M1 Ba	and 4_Uplink	frequency bar	nd: 1710 to 17	755 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	0	24.22	27.22	30	-2.78
	19965	1711.5	QPSK	1	5	0	24.14	27.14	30	-2.86
				6	0	0	22.23	25.23	30	-4.77
				1	0	0	24.06	27.06	30	-2.94
	20175	1732.5	QPSK	1	5	0	24.01	27.01	30	-2.99
				6	0	0	22.22	25.22	30	-4.78
				1	0	0	24.21	27.21	30	-2.79
	20385	1753.5	1753.5 QPSK	1	5	0	24.16	27.16	30	-2.84
3				6	0	0	21.97	24.97	30	-5.03
3				1	0	11	23.09	26.09	30	-3.91
	19965	1711.5	16QAM	1	5	11	23.01	26.01	30	-3.99
				6	0	11	22.15	25.15	30	-4.85
				1	0	11	22.92	25.92	30	-4.08
	20175	1732.5	16QAM	1	5	11	22.88	25.88	30	-4.12
	20170 1702.0			6	0	11	21.99	24.99	30	-5.01
				1	0	11	24.18	27.18	30	-2.82
	20385 1753.5			1	5	11	24.15	27.15	30	-2.85
				6	0	11	22.18	25.18	30	-4.82

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Antenna gain (dBi)		3									
			M1 Ba	and 4_Uplink	frequency bar	nd: 1710 to 17	755 MHz				
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)	
				1	0	0	24.58	27.58	30	-2.42	
	19975	1712.5	QPSK	1	5	0	24.53	27.53	30	-2.47	
				6	0	0	23.32	26.32	30	-3.68	
				1	0	0	24.27	27.27	30	-2.73	
	20175	1732.5	QPSK	1	5	0	24.20	27.20	30	-2.8	
				6	0	0	23.12	26.12	30	-3.88	
			QPSK	1	0	0	24.41	27.41	30	-2.59	
	20375	1752.5		QPSK	1	5	0	24.37	27.37	30	-2.63
5				6	0	0	23.03	26.03	30	-3.97	
5				1	0	11	23.57	26.57	30	-3.43	
	19975	1712.5	16QAM	1	5	11	23.59	26.59	30	-3.41	
				6	0	11	21.82	24.82	30	-5.18	
				1	0	11	23.34	26.34	30	-3.66	
	20175	1732.5	16QAM	1	5	11	23.36	26.36	30	-3.64	
				6	0	11	21.75	24.75	30	-5.25	
				1	0	11	23.34	26.34	30	-3.66	
	20375	1752.5	16QAM	1	5	11	24.25	27.25	30	-2.75	
		1752.5		6	0	11	21.57	24.57	30	-5.43	

Antenna gain (dBi)

			M1 Ba	and 4_Uplink	frequency bar	nd: 1710 to 17	'55 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	0	24.44	27.44	30	-2.56
	20000	1715	QPSK	1	5	0	24.37	27.37	30	-2.63
				6	0	0	23.22	26.22	30	-3.78
				1	0	0	24.28	27.28	30	-2.72
	20175	1732.5	QPSK	1	5	0	24.23	27.23	30	-2.77
-				6	0	0	23.12	26.12	30	-3.88
		1750		1	0	0	24.38	27.38	30	-2.62
	20375	1750	QPSK	1	5	0	24.31	24.31 27.31		-2.69
10		1730		6	0	0	23.04	26.04	30	-3.96
10				1	0	11	23.44	26.44	30	-3.56
	20000	1715	16QAM	1	5	11	23.46	26.46	30	-3.54
				6	0	11	21.80	24.80	30	-5.2
				1	0	11	23.31	26.31	30	-3.69
	20175	1732.5	16QAM	1	5	11	23.30	26.30	30	-3.7
				6	0	11	21.48	24.48	30	-5.52
				1	0	11	23.34	26.34	30	-3.66
	20375	1750	16QAM	1	5	11	23.31	26.31	30	-3.69
				6	0	11	21.47	24.47	30	-5.53

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Antenna gain (dBi)

Апісіна уані (ибі)		3	M1 Ba	nd 4_Uplink	frequency bar	nd : 1710 to 17	55 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	0	24.43	27.43	30	-2.57
	20025	1717.5	QPSK	1	5	0	24.36	27.36	30	-2.64
				6	0	0	24.14	27.14	30	-2.86
				1	0	0	24.34	27.34	30	-2.66
	20175	1732.5	QPSK	1	5	0	24.27	27.27	30	-2.73
				6	0	0	24.06	27.06	30	-2.94
		4747.5	QPSK	1	0	0	24.36	27.36	30	-2.64
	20325	1747.5		1	5	0	24.27	27.27	30	-2.73
15				6	0	0	24.08	27.08	30	-2.92
15				1	0	11	23.48	26.48	30	-3.52
	20025	1717.5	16QAM	1	5	11	23.45	26.45	30	-3.55
				6	0	11	23.90	26.90	30	-3.1
				1	0	11	23.44	26.44	30	-3.56
	20175	1732.5	16QAM	1	5	11	23.38	26.38	30	-3.62
				6	0	11	23.80	26.80	30	-3.2
				1	0	11	24.34	27.34	30	-2.66
	20325	1747.5	16QAM	1	5	11	24.28	27.28	30	-2.72
				6	0	11	24.08	27.08	30	-2.92

ntenna gain (dBi)		3									
			M1 Ba	and 4_Uplink	frequency bar	nd: 1710 to 17	755 MHz				
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)	
				1	0	0	24.51	27.51	30	-2.49	
	20050	1720	QPSK	1	5	0	24.46	27.46	30	-2.54	
				6	0	0	24.25	27.25	30	-2.75	
				1	0	0	24.42	27.42	30	-2.58	
	20175	1732.5	QPSK	1	5	0	24.23	27.23	30	-2.77	
				6	0	0	24.09	27.09	30	-2.91	
			QPSK	1	0	0	24.43	27.43	30	-2.57	
	20300	1745		QPSK	1	5	0	24.37	27.37	30	-2.63
20				6	0	0	24.10	27.10	30	-2.9	
20				1	0	11	23.49	26.49	30	-3.51	
	20050	1720	16QAM	1	5	11	23.52	26.52	30	-3.48	
				6	0	11	23.90	26.90	30	-3.1	
				1	0	11	23.40	26.40	30	-3.6	
	20175	1732.5	16QAM	1	5	11	23.41	26.41	30	-3.59	
				6	0	11	23.78	26.78	30	-3.22	
				1	0	11	23.41	26.41	30	-3.59	
	20300	1745	16QAM	1	5	11	23.36	26.36	30	-3.64	
				6	0	11	23.71	26.71	30	-3.29	

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prosecuted to the fullest extent of the law.

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Antenna gain (dBi)

	gairi (ubi)	J		M1 Band 12	_Uplink freque	ncy band: 699	to 716 MHz				
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	0	23.37	24.22	26.37	34.77	-8.4
	23017	699.7	QPSK	1	5	0	23.45	24.30	26.45	34.77	-8.32
				6	0	0	21.26	22.11	24.26	34.77	-10.51
				1	0	0	23.21	24.06	26.21	34.77	-8.56
	23095	707.5	QPSK	1	5	0	23.19	24.04	26.19	34.77	-8.58
				6	0	0	20.96	21.81	23.96	34.77	-10.81
		715.5	QPSK	1	0	0	22.97	23.82	25.97	34.77	-8.8
	23173			1	5	0	22.93	23.78	25.93	34.77	-8.84
1.4				6	0	0	21.02	21.87	24.02	34.77	-10.75
1				1	0	11	22.38	23.23	25.38	34.77	-9.39
	23017	699.7	16QAM	1	5	11	22.33	23.18	25.33	34.77	-9.44
				6	0	11	21.34	22.19	24.34	34.77	-10.43
				1	0	11	22.23	23.08	25.23	34.77	-9.54
	23095	707.5	16QAM	1	5	11	22.11	22.96	25.11	34.77	-9.66
	23173			6	0	11	21.03	21.88	24.03	34.77	-10.74
				1	0	11	21.88	22.73	24.88	34.77	-9.89
		715.5	16QAM	1	5	11	21.75	22.60	24.75	34.77	-10.02
				6	0	11	20.99	21.84	23.99	34.77	-10.78

Antenna gain (dBi)

	gairi (ubi)	<u> </u>		M1 Band 12	_Uplink freque	ncy band: 699	to 716 MHz							
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)			
				1	0	0	23.44	24.29	26.44	34.77	-8.33			
	23025	700.5	QPSK	1	5	0	23.48	24.33	26.48	34.77	-8.29			
				6	0	0	21.44	22.29	24.44	34.77	-10.33			
				1	0	0	23.06	23.91	26.06	34.77	-8.71			
	23095	707.5	QPSK	1	5	0	23.02	23.87	26.02	34.77	-8.75			
				6	0	0	21.51	22.36	24.51	34.77	-10.26			
			QPSK	1	0	0	22.87	23.72	25.87	34.77	-8.9			
	23165	714.5		1	5	0	22.84	23.69	25.84	34.77	-8.93			
3				6	0	0	21.57	22.42	24.57	34.77	-10.2			
				1	0	11	22.38	23.23	25.38	34.77	-9.39			
	23025	700.5	16QAM	1	5	11	22.38	23.23	25.38	34.77	-9.39			
				6	0	11	21.46	22.31	24.46	34.77	-10.31			
							1	0	11	22.33	23.18	25.33	34.77	-9.44
	23095	707.5	16QAM	1	5	11	22.11	22.96	25.11	34.77	-9.66			
				6	0	11	21.64	22.49	24.64	34.77	-10.13			
	23165			1	0	11	22.13	22.98	25.13	34.77	-9.64			
		714.5	16QAM	1	5	11	22.14	22.99	25.14	34.77	-9.63			
				6	0	11	21.23	22.08	24.23	34.77	-10.54			

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Antenna gain (dBi)

	gairi (ubi)	<u> </u>		M1 Band 12	_Uplink freque	ncy band: 699	to 716 MHz				
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation	RB Start	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	0	23.47	24.32	26.47	34.77	-8.3
	23035	701.5	QPSK	1	5	0	23.49	24.34	26.49	34.77	-8.28
				6	0	0	22.62	23.47	25.62	34.77	-9.15
				1	0	0	23.22	24.07	26.22	34.77	-8.55
	23095	707.5	QPSK	1	5	0	23.15	24.00	26.15	34.77	-8.62
				6	0	0	22.76	23.61	25.76	34.77	-9.01
	23155	713.5	G QPSK	1	0	0	22.86	23.71	25.86	34.77	-8.91
				1	5	0	22.80	23.65	25.80	34.77	-8.97
5				6	0	0	22.32	23.17	25.32	34.77	-9.45
	5			1	0	11	23.92	24.77	26.92	34.77	-7.85
	23035	701.5	16QAM	1	5	11	23.94	24.79	26.94	34.77	-7.83
				6	0	11	21.17	22.02	24.17	34.77	-10.6
				1	0	11	23.65	24.50	26.65	34.77	-8.12
	23095	707.5	16QAM	1	5	11	23.66	24.51	26.66	34.77	-8.11
				6	0	11	21.46	22.31	24.46	34.77	-10.31
	23155		113.5 16QAM	1	0	11	23.22	24.07	26.22	34.77	-8.55
		713.5		1	5	11	23.35	24.20	26.35	34.77	-8.42
				6	0	11	21.20	22.05	24.20	34.77	-10.57

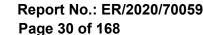
Antenna gain (dBi)

Antenna	gair (abi)	<u>ა</u>		M1 Band 12	Uplink freque	ncy band : 699) to 716 MHz				
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB allocation		Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	0	23.51	24.36	26.51	34.77	-8.26
	23060	704	QPSK	1	5	0	23.52	24.37	26.52	34.77	-8.25
				6	0	0	22.55	23.40	25.55	34.77	-9.22
				1	0	0	23.82	24.67	26.82	34.77	-7.95
	23095	707.5	QPSK	1	5	0	23.11	23.96	26.11	34.77	-8.66
			6	0	0	22.65	23.50	25.65	34.77	-9.12	
	23130	711		1	0	0	23.24	24.09	26.24	34.77	-8.53
			711 QPSK	QPSK	1	5	0	23.20	24.05	26.20	34.77
10				6	0	0	22.33	23.18	25.33	34.77	-9.44
10				1	0	11	23.97	24.82	26.97	34.77	-7.8
	23060	704	16QAM	1	5	11	23.97	24.82	26.97	34.77	-7.8
				6	0	11	21.25	22.10	24.25	34.77	-10.52
			1	1	0	11	23.60	24.45	26.60	34.77	-8.17
	23095	707.5	16QAM	1	5	11	23.60	24.45	26.60	34.77	-8.17
				6	0	11	21.38	22.23	24.38	34.77	-10.39
	23130		11 16QAM	1	0	11	23.69	24.54	26.69	34.77	-8.08
		711		1	5	11	23.60	24.45	26.60	34.77	-8.17
				6	0	11	20.98	21.83	23.98	34.77	-10.79

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Antenna gain (dBi) 1.9

	gairi (ubi)			LTE Band 26	_Uplink freque	ency band: 82	4 to 849 MHz					
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)	
				1	0	0	23.74	23.49	25.64	38.45	-14.96	
	26797	824.7	QPSK	1	5	0	23.66	23.41	25.56	38.45	-15.04	
				6	0	0	21.18	20.93	23.08	38.45	-17.52	
				1	0	0	23.63	23.38	25.53	38.45	-15.07	
	26915	836.5	QPSK	1	5	0	23.65	23.40	25.55	38.45	-15.05	
				6	0	0	21.23	20.98	23.13	38.45	-17.47	
		848.3		1	0	0	23.94	23.69	25.84	38.45	-14.76	
	27033		QPSK	QPSK	1	5	0	23.95	23.70	25.85	38.45	-14.75
1.4				6	0	0	21.19	20.94	23.09	38.45	-17.51	
1.4				1	0	11	22.18	21.93	24.08	38.45	-16.52	
	26797	824.7	16QAM	1	5	11	22.05	21.80	23.95	38.45	-16.65	
				6	0	11	21.17	20.92	23.07	38.45	-17.53	
		26915 836.5 16QA		1	0	11	22.24	21.99	24.14	38.45	-16.46	
	26915		16QAM	1	5	11	22.10	21.85	24.00	38.45	-16.60	
	27033			6	0	11	21.34	21.09	23.24	38.45	-17.36	
			16QAM	1	0	11	22.28	22.03	24.18	38.45	-16.42	
		848.3		1	5	11	22.23	21.98	24.13	38.45	-16.47	
				6	0	11	21.17	20.92	23.07	38.45	-17.53	

Antenna gain (dRi) 19

Antonia	yaiii (ubi)	1.9		LTE Band 26	_Uplink freque	ency band : 82	4 to 849 MHz				
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	0	23.46	23.21	25.36	38.45	-15.24
	26805	825.5	QPSK	1	5	0	23.41	23.16	25.31	38.45	-15.29
				6	0	0	21.25	21.00	23.15	38.45	-17.45
				1	0	0	23.50	23.25	25.40	38.45	-15.20
	26915	836.5	QPSK	1	5	0	23.48	23.23	25.38	38.45	-15.22
			6	0	0	21.27	21.02	23.17	38.45	-17.43	
		847.5	47.5 QPSK	1	0	0	23.53	23.28	25.43	38.45	-15.17
	27025			1	5	0	23.53	23.28	25.43	38.45	-15.17
3				6	0	0	21.57	21.32	23.47	38.45	-17.13
				1	0	11	22.19	21.94	24.09	38.45	-16.51
	26805	825.5	16QAM	1	5	11	22.07	21.82	23.97	38.45	-16.63
				6	0	11	21.28	21.03	23.18	38.45	-17.42
				1	0	11	22.18	21.93	24.08	38.45	-16.52
	26915	836.5	16QAM	1	5	11	22.10	21.85	24.00	38.45	-16.60
				6	0	11	21.36	21.11	23.26	38.45	-17.34
	27025		16QAM	1	0	11	22.27	22.02	24.17	38.45	-16.43
		847.5		1	5	11	22.24	21.99	24.14	38.45	-16.46
				6	0	11	21.53	21.28	23.43	38.45	-17.17

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Antenna gain (dBi) 1.9

				LTE Band 26	_Uplink freque	ency band: 82	4 to 849 MHz				
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	0	23.61	23.36	25.51	38.45	-15.09
	26815	826.5	QPSK	1	5	0	23.60	23.35	25.50	38.45	-15.10
				6	0	0	22.30	22.05	24.20	38.45	-16.40
				1	0	0	23.55	23.30	25.45	38.45	-15.15
	26915	836.5	QPSK	1	5	0	23.56	23.31	25.46	38.45	-15.14
				6	0	0	22.48	22.23	24.38	38.45	-16.22
		846.5	QPSK	1	0	0	23.49	23.24	25.39	38.45	-15.21
	27015			1	5	0	23.50	23.25	25.40	38.45	-15.20
5				6	0	0	22.41	22.16	24.31	38.45	-16.29
3				1	0	11	23.74	23.49	25.64	38.45	-14.96
	26815	826.5	16QAM	1	5	11	23.71	23.46	25.61	38.45	-14.99
				6	0	11	21.27	21.02	23.17	38.45	-17.43
				1	0	11	23.73	23.48	25.63	38.45	-14.97
	26915	836.5	16QAM	1	5	11	23.70	23.45	25.60	38.45	-15.00
	27015			6	0	11	21.18	20.93	23.08	38.45	-17.52
			16QAM	1	0	11	23.76	23.51	25.66	38.45	-14.94
		846.5		1	5	11	23.73	23.48	25.63	38.45	-14.97
				6	0	11	21.22	20.97	23.12	38.45	-17.48

Antonna gain (dRi) 10

Antenna	gain (dBi)	1.9		LTF Rand 26	_Uplink freque	ency hand · 92	4 to 849 MHz				
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	0	23.60	23.35	25.50	38.45	-15.10
	26840	829	QPSK	1	5	0	23.58	23.33	25.48	38.45	-15.12
				6	0	0	22.36	22.11	24.26	38.45	-16.34
				1	0	0	23.96	23.71	25.86	38.45	-14.74
	26915	836.5	QPSK	1	5	0	23.94	23.69	25.84	38.45	-14.76
				6	0	0	22.39	22.14	24.29	38.45	-16.31
		844		1	0	0	23.95	23.70	25.85	38.45	-14.75
	26990		QPSK	1	5	0	23.95	23.70	25.85	38.45	-14.75
10				6	0	0	22.39	22.14	24.29	38.45	-16.31
10				1	0	11	23.80	23.55	25.70	38.45	-14.90
	26840	829	16QAM	1	5	11	23.76	23.51	25.66	38.45	-14.94
				6	0	11	21.11	20.86	23.01	38.45	-17.59
				1	0	11	23.66	23.41	25.56	38.45	-15.04
	26915	836.5 16QAM	16QAM	1	5	11	23.67	23.42	25.57	38.45	-15.03
				6	0	11	21.11	20.86	23.01	38.45	-17.59
		+		1	0	11	23.57	23.32	25.47	38.45	-15.13
	26990	844	16QAM	1	5	11	23.74	23.49	25.64	38.45	-14.96
	26990	844		6	0	11	21.33	21.08	23.23	38.45	-17.37

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Antenna gain (dBi) 1.9

Tuncoma	LTE Band 26_Uplink frequency band : 824 to 849 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)	
				1	0	0	23.61	23.36	25.51	38.45	-15.09	
	26865	831.5	QPSK	1	5	0	23.59	23.34	25.49	38.45	-15.11	
				6	0	0	23.30	23.05	25.20	38.45	-15.40	
				1	0	0	23.49	23.24	25.39	38.45	-15.21	
	26915	836.5	QPSK	1	5	0	23.48	23.23	25.38	38.45	-15.22	
				6	0	0	23.23	22.98	25.13	38.45	-15.47	
				1	0	0	23.54	23.29	25.44	38.45	-15.16	
	26965	841.5	QPSK	1	5	0	23.54	23.29	25.44	38.45	-15.16	
15				6	0	0	23.38	23.13	25.28	38.45	-15.32	
15				1	0	11	23.76	23.51	25.66	38.45	-14.94	
	26865	831.5	16QAM	1	5	11	23.52	23.27	25.42	38.45	-15.18	
				6	0	11	23.30	23.05	25.20	38.45	-15.40	
				1	0	11	23.71	23.46	25.61	38.45	-14.99	
	26915	836.5	16QAM	1	5	11	23.66	23.41	25.56	38.45	-15.04	
				6	0	11	21.15	20.90	23.05	38.45	-17.55	
				1	0	11	23.69	23.44	25.59	38.45	-15.01	
	26965	841.5	16QAM	1	5	11	23.64	23.39	25.54	38.45	-15.06	
				6	0	11	23.20	22.95	25.10	38.45	-15.50	

intenna gain (dBi)	1.83										
			Part 9	OS_LTE Band	d 26_Uplink fr	equency band	: 814 to 824 MF	ŀΙz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	0	23.83	23.51	25.66	50	-26.49
	26697	814.7	QPSK	1	5	0	23.46	23.14	25.29	50	-26.86
				6	0	0	21.24	20.92	23.07	50	-29.08
				1	0	0	23.47	23.15	25.30	50	-26.85
	26740 819	QPSK	1	5	0	23.43	23.11	25.26	50	-26.89	
				6	0	0	21.06	20.74	22.89	50	-29.26
		823.3	QPSK	1	0	0	23.50	23.18	25.33	50	-26.82
	26783			1	5	0	23.45	23.13	25.28	50	-26.87
1.4				6	0	0	21.20	20.88	23.03	50	-29.12
1.4				1	0	11	22.03	21.71	23.86	50	-28.29
	26697	814.7	16QAM	1	5	11	21.88	21.56	23.71	50	-28.44
				6	0	11	20.96	20.64	22.79	50	-29.36
				1	0	11	22.06	21.74	23.89	50	-28.26
	26740	819	16QAM	1	5	11	21.94	21.62	23.77	50	-28.38
				6	0	11	21.06	20.74	22.89	50	-29.26
				1	0	11	22.05	21.73	23.88	50	-28.27
	26783	823.3	16QAM	1	5	11	21.96	21.64	23.79	50	-28.36
				6	0	11	21.04	20.72	22.87	50	-29.28

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Antenna gain (dBi) 1.83

Anterina gain (dbi)		1.03	Part 9	OS_LTE Band	d 26_Uplink fr	equency band	: 814 to 824 MF	-lz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	0	23.32	23.00	25.15	50	-27.00
	26705	815.5	QPSK	1	5	0	23.28	22.96	25.11	50	-27.04
				6	0	0	21.20	20.88	23.03	50	-29.12
				1	0	0	23.43	23.11	25.26	50	-26.89
	26740	819	QPSK	1	5	0	23.38	23.06	25.21	50	-26.94
				6	0	0	21.21	20.89	23.04	50	-29.11
	26775	822.5	QPSK	1	0	0	23.55	23.23	25.38	50	-26.77
				1	5	0	23.47	23.15	25.30	50	-26.85
3				6	0	0	21.29	20.97	23.12	50	-29.03
				1	0	11	22.07	21.75	23.90	50	-28.25
	26705	815.5	16QAM	1	5	11	21.95	21.63	23.78	50	-28.37
				6	0	11	21.17	20.85	23.00	50	-29.15
				1	0	11	22.16	21.84	23.99	50	-28.16
	26740	819	16QAM	1	5	11	22.03	21.71	23.86	50	-28.29
				6	0	11	21.18	20.86	23.01	50	-29.14
				1	0	11	22.01	21.69	23.84	50	-28.31
	26775	822.5	16QAM	1	5	11	21.93	21.61	23.76	50	-28.39
				6	0	11	21.20	20.88	23.03	50	-29.12

Antenna gain (dBi) 1.83

	Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)	
				1	0	0	23.79	23.47	25.62	50	-26.53	
	26715	816.5	QPSK	1	5	0	23.74	23.42	25.57	50	-26.58	
				6	0	0	22.27	21.95	24.10	50	-28.05	
				1	0	0	23.55	23.23	25.38	50	-26.77	
	26740	819	QPSK	1	5	0	23.52	23.20	25.35	50	-26.80	
				6	0	0	22.27	21.95	24.10	50	-28.05	
		821.5	QPSK	1	0	0	23.53	23.21	25.36	50	-26.79	
	26765			1	5	0	23.53	23.21	25.36	50	-26.79	
5				6	0	0	22.30	21.98	24.13	50	-28.02	
5				1	0	11	23.59	23.27	25.42	50	-26.73	
	26715	816.5	16QAM	1	5	11	22.55	22.23	24.38	50	-27.77	
				6	0	11	21.18	20.86	23.01	50	-29.14	
				1	0	11	23.67	23.35	25.50	50	-26.65	
	26740	819	16QAM	1	5	11	23.63	23.31	25.46	50	-26.69	
				6	0	11	21.34	21.02	23.17	50	-28.98	
				1	0	11	23.71	23.39	25.54	50	-26.61	
	26765	821.5	16QAM	1	5	11	23.61	23.29	25.44	50	-26.71	
				6	0	11	21.06	20.74	22.89	50	-29.26	

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Antenna gain (dBi) 1.83

J. (*)			Part 9	OS_LTE Band	d 26_Uplink fr	equency band	: 814 to 824 MF	łz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Index	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	0	23.63	23.31	25.46	50	-26.69
	26740	26740 819	QPSK	1	5	0	23.59	23.27	25.42	50	-26.73
10				6	0	0	23.38	23.06	25.21	50	-26.94
10				1	0	11	23.74	23.42	25.57	50	-26.58
	26740	819	16QAM	1	5	11	23.67	23.35	25.50	50	-26.65
				6	0	11	21.03	20.71	22.86	50	-29.29

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prosecuted to the fullest extent of the law.



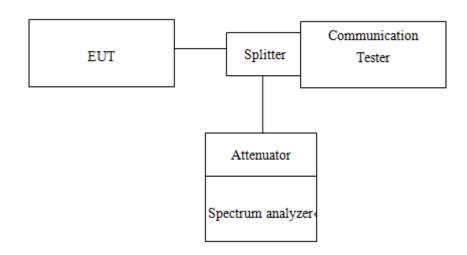
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7 OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

The occupied bandwidth 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 percent of the total mean power.

7.2 Test Set-up



7.3 Measurement Procedure

99% &26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about $1\% \sim 5\%$ of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= $1\% \sim 5\%$, VBW= 3 RBW, with span > 2* Signal BW, set % Power = 99%.

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7.4 Measurement Equipment Used

Conducte	ed Emission (m	neasured at a	antenna port)	Test Site	
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Radio Communication Analyer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G1 8G	11-JSPF412- 018	01/02/2020	01/01/2021

7.5 Measurement Result

7.5.1 Cat M1

	M1 BAND 2 Channel bandwidth: 1.4MHz									
Freq.	СН	99% B\	N (MHz)	26 dB BW (MHz)						
(MHz)	CH	QPSK	16QAM	QPSK	16QAM					
1850.7	18607	1.1011	1.1051	1.288	1.323					
1880.0	18900	1.0904	1.0937	1.308	1.314					
1909.3	19193	1.0957	1.1040	1.296	1.308					

	M1 BAND 2 Channel bandwidth: 3MHz									
Freq.	СН	99% BV	V (MHz)	26 dB BW (MHz)						
(MHz)	CH	QPSK	16QAM	QPSK	16QAM					
1851.5	18615	1.1461	1.1598	1.370	1.405					
1880.0	18900	1.1498	1.1519	1.374	1.398					
1908.5	19185	1.1512	1.1620	1.363	1.379					

	M1 BAND 2 Channel bandwidth: 5MHz									
Freq.	СП	CH 99% BW (MHz) 26 dB BW (MHz)								
(MHz)	CH	QPSK	16QAM	QPSK	16QAM					
1852.5	18625	1.2260	1.2303	1.603	1.472					
1880.0	18900	1.2345	1.2223	1.526	1.461					
1907.5	19175	1.2325	1.2235	1.470	1.443					

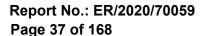
	M1 BAND 2 Channel bandwidth: 10MHz									
Freq.										
(MHz)	CH	QPSK	16QAM	QPSK	16QAM					
1855.0	18650	1.3672	1.3539	2.215	2.063					
1880.0	18900	1.3594	1.3476	1.976	2.115					
1905.0	19150	1.3891	1.3554	2.156	2.290					

	M1 BAND 2 Channel bandwidth: 15MHz									
Freq.	СН	99% B\	N (MHz)	26 dB BW (MHz)						
(MHz)	CH	QPSK	16QAM	QPSK	16QAM					
1857.5	18675	1.614	1.686	2.855	2.945					
1880.0	18900	1.597	1.637	2.680	3.020					
1902.5	19125	1.565	1.613	2.561	3.044					

	M1 BAND 2 Channel bandwidth: 20MHz									
Freq.	СН	99% BV	V (MHz)	26 dB BW (MHz)						
(MHz)	СП	QPSK	16QAM	QPSK	16QAM					
1860.0	18700	1.803	1.948	2.919	3.081					
1880.0	18900	1.775	1.738	2.853	2.875					
1900.0	19100	1.813	1.812	2.886	2.928					

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M1 BAND 4 Channel bandwidth: 1.4MHz								
Freq.	Freq. CH		99% BW (MHz)		26 dB BW (MHz)			
(MHz)	CH	QPSK	16QAM	QPSK	16QAM			
1710.7	19957	1.1015	1.1038	1.314	1.328			
1732.5	20175	1.1018	1.1045	1.295	1.348			
1754.3	20393	1.1009	1.0979	1.317	1.332			

M1 BAND 4 Channel bandwidth: 3MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz)	CH	QPSK	16QAM	QPSK	16QAM			
1711.5	19965	1.1503	1.1524	1.364	1.435			
1732.5	20175	1.1553	1.1512	1.371	1.396			
1753.5	20385	1.1378	1.1613	1.369	1.387			

- 1									
	M1 BAND 4 Channel bandwidth: 5MHz								
	Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
	(MHz)	CH	QPSK	16QAM	QPSK	16QAM			
	1712.5	19975	1.2301	1.2269	1.560	1.427			
	1732.5	20175	1.2250	1.2195	1.545	1.438			
	1752.5	20375	1.2298	1.2302	1.613	1.439			

M1 BAND 4 Channel bandwidth: 10MHz								
Freq.	Freq. CH	99% BW (MHz)		26 dB BW (MHz)				
(MHz)	СП	QPSK	16QAM	QPSK	16QAM			
1715.0	20000	1.3551	1.3434	1.908	1.692			
1732.5	20175	1.3398	1.3537	2.057	1.701			
1750.0	20350	1.3972	1.3653	1.994	1.706			

M1 BAND 4 Channel bandwidth: 15MHz								
Freq.		99% B\	99% BW (MHz)		26 dB BW (MHz)			
(MHz)	CH	QPSK	16QAM	QPSK	16QAM			
1717.5	20025	1.580	1.545	2.426	2.444			
1732.5	20175	1.574	1.526	2.460	2.255			
1747.5	20325	1.565	1.611	2.586	2.687			

M1 BAND 4 Channel bandwidth: 20MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz)	СП	QPSK	16QAM	QPSK	16QAM			
1720.0	20050	1.762	1.729	2.729	2.623			
1732.5	20175	1.740	1.764	2.586	2.814			
1745.0	20300	1.744	1.745	2.632	2.775			

N	M1 BAND 12 Channel bandwidth: 1.4MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)				
(MHz)	CH	QPSK	16QAM	QPSK	16QAM				
699.7	23017	1.1006	1.1102	1.297	1.323				
707.5	23095	1.1002	1.1017	1.303	1.319				
715.3	23173	1.0991	1.1020	1.303	1.325				

M1 BAND 12 Channel bandwidth: 3MHz								
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)			
(MHz)	CH	QPSK	16QAM	QPSK	16QAM			
700.5	23025	1.1506	1.1434	1.367	1.371			
707.5	23095	1.1499	1.1463	1.375	1.364			
714.5	23165	1.1448	1.1424	1.366	1.362			

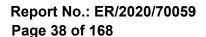
M1 BAND 12 Channel bandwidth: 5MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz)	CH	QPSK	16QAM	QPSK	16QAM			
701.5	23035	1.2062	1.1998	1.497	1.503			
707.5	23095	1.2062	1.2164	1.497	1.480			
713.5	23155	1.2187	1.2066	1.552	1.416			

M1 BAND 12 Channel bandwidth: 10MHz									
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)				
(MHz)	CH	QPSK	16QAM	QPSK	16QAM				
704.0	23060	1.3325	1.3626	1.668	1.644				
707.5	23095	1.3408	1.3568	1.715	1.722				
711.0	23130	1.3709	1.3412	1.857	1.634				

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M1 BAND 26 Channel bandwidth: 1.4MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz)		QPSK	16QAM	QPSK	16QAM			
824.7	26797	1.1077	1.1048	1.279	1.319			
836.5	26915	1.1029	1.1068	1.316	1.314			
848.3	27033	1.0937	1.1005	1.304	1.323			

M1 BAND 26 Channel bandwidth: 3MHz									
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)				
(MHz)	CH	QPSK	16QAM	QPSK	16QAM				
825.5	26805	1.1449	1.1578	1.371	1.391				
836.5	26915	1.1494	1.1471	1.363	1.374				
847.5	27025	1.1436	1.1590	1.366	1.383				

M1 BAND 26 Channel bandwidth: 5MHz							
Freq. (MHz)	СН	99% B\	V (MHz)	26 dB BW (MHz)			
(MHz)		QPSK	16QAM	QPSK	16QAM		
826.5	26815	1.2081	1.2281	1.522	1.434		
836.5	26915	1.2315	1.2292	1.544	1.436		
846.5	27015	1.2189	1.2105	1.676	1.450		

M1 BAND 26 Channel bandwidth: 10MHz							
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)			
(MHz)	CH	QPSK	16QAM	QPSK	16QAM		
829.0	26840	1.3460	1.3731	1.896	1.863		
836.5	26915	1.3527	1.3394	1.941	1.761		
844.0	26990	1.3822	1.3231	1.897	1.774		

M1 BAND 26 Channel bandwidth: 15MHz							
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)			
(MHz)		QPSK	16QAM	QPSK	16QAM		
831.5	26865	1.578	1.569	2.702	2.570		
836.5	26915	2.088	1.553	3.298	2.661		
841.5	26965	1.553	1.579	2.459	2.667		

M1 BAND 26 for part 90S Channel bandwidth: 1.4MHz							
Freq.	СН	99% B\	N (MHz)	26 dB BW (MHz)			
(MHz)	CH	QPSK	16QAM	QPSK	16QAM		
814.7	26697	1.0971	1.1088	1.310	1.322		
819.0	26740	1.0992	1.1032	1.311	1.318		
823.3	26783	1.1008	1.0999	1.310	1.312		

M1 BA	M1 BAND 26 for part 90S Channel bandwidth: 3MHz							
Freq.	СН	99% B\	N (MHz)	26 dB BW (MHz)				
(MHz)	CH	QPSK	16QAM	QPSK	16QAM			
815.5	26705	1.1457	1.1439	1.369	1.396			
819.0	26740	1.1466	1.1543	1.363	1.438			
822.5	26775	1.1517	1.1663	1.365	1.427			

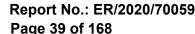
M1 BAND 26 for part 90S Channel bandwidth: 5MHz							
Freq.	СН	99% B\	N (MHz)	26 dB BW (MHz)			
(MHz)	CH	QPSK	16QAM	QPSK	16QAM		
816.5	26715	1.2320	1.2311	1.559	1.451		
819.0	26740	1.2170	1.2237	1.514	1.595		
821.5	26765	1.2323	1.1850	1.575	1.327		

M1 BAND 26 for part 90S Channel bandwidth: 10MHz							
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)			
(MHz)		QPSK	16QAM	QPSK	16QAM		
819.0	26740	1.3561	1.3616	1.760	1.934		

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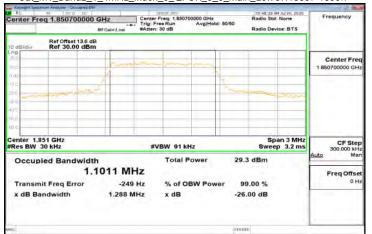
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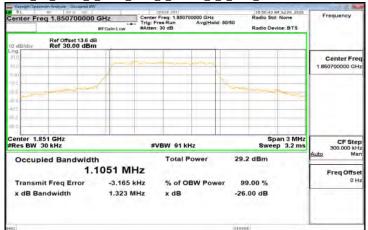




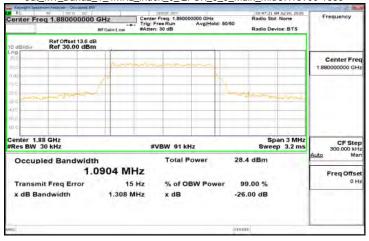
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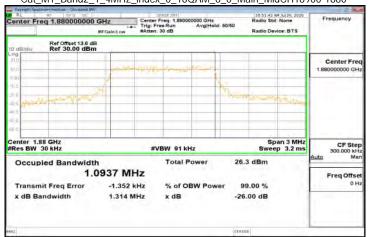




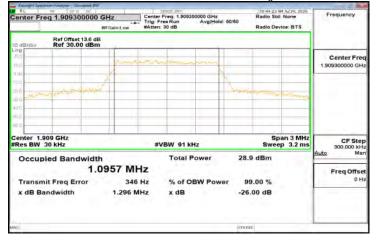
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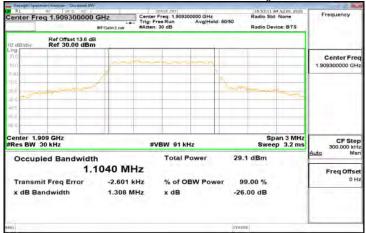
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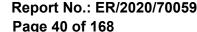


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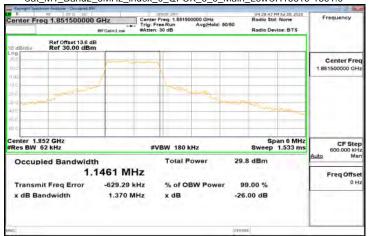
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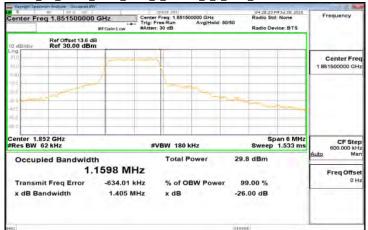




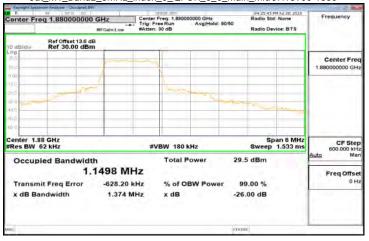
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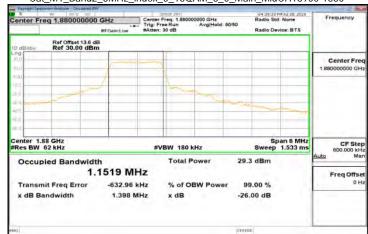




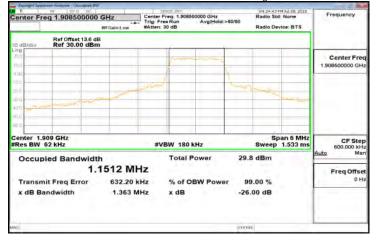
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Cat_M1_Band2_3MHz_index_1_16QAM_6_0_Main_HighCH19185-1908.5



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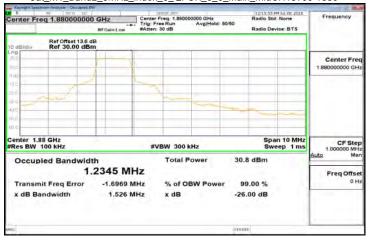
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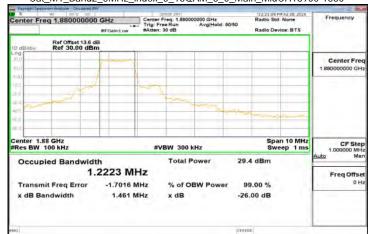




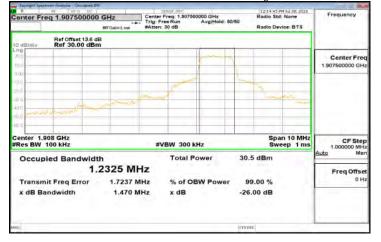
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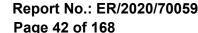
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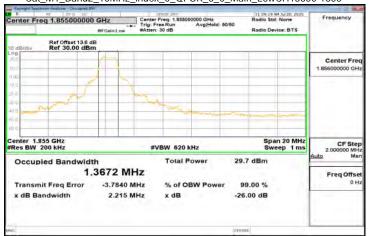
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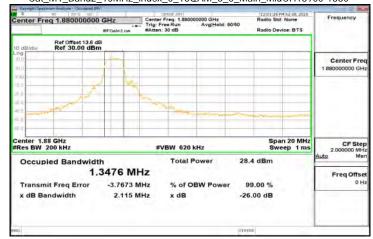




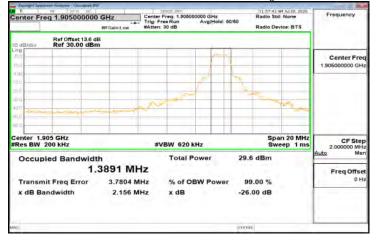
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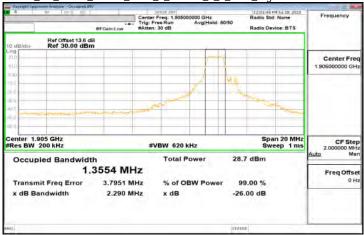
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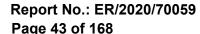


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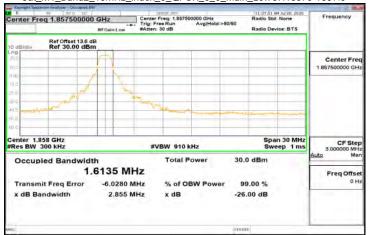
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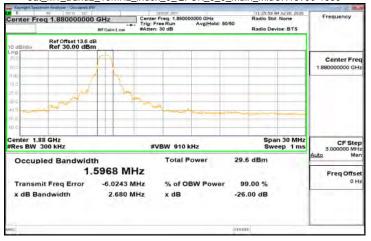




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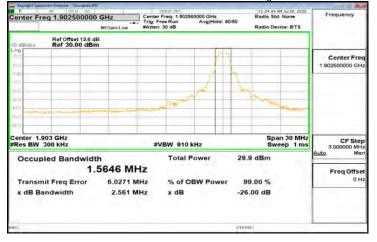
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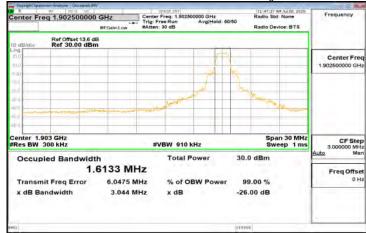
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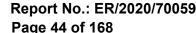


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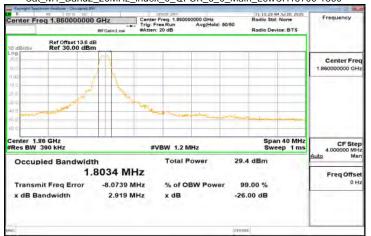
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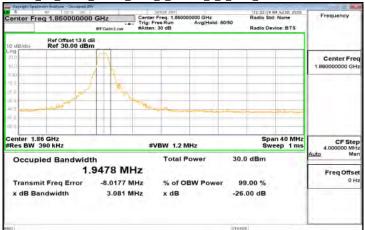




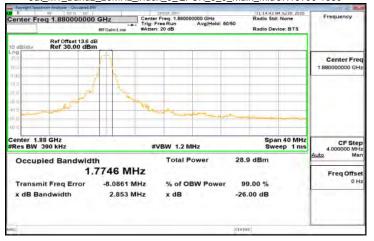
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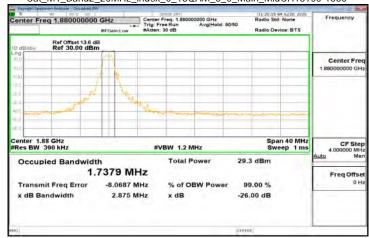




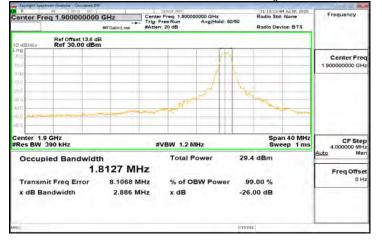
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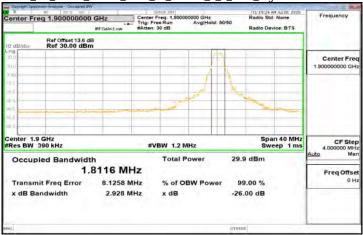
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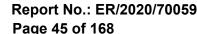
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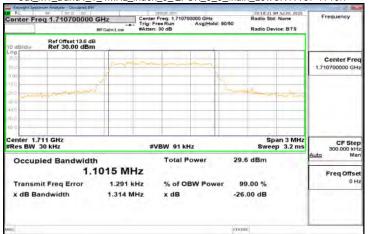
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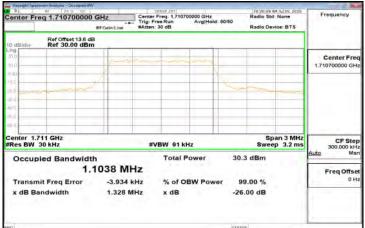




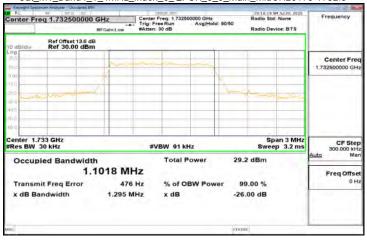
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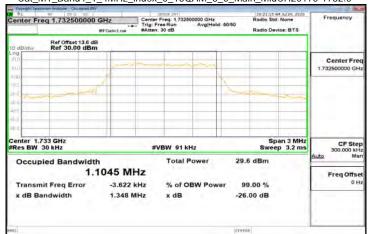




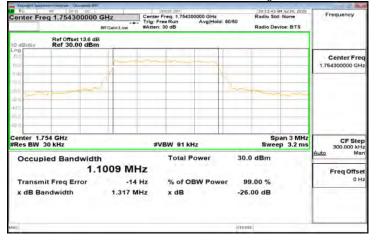
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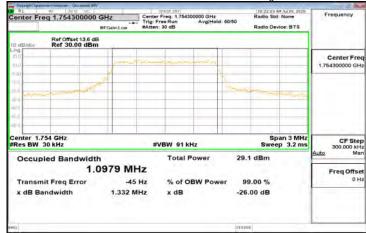
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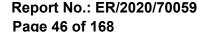


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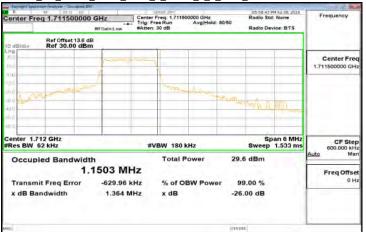
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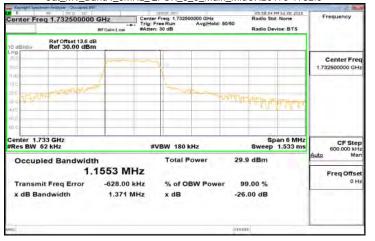
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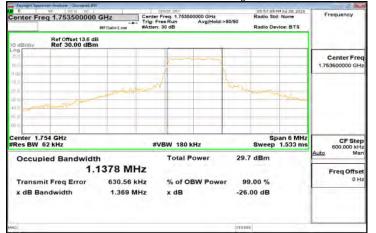
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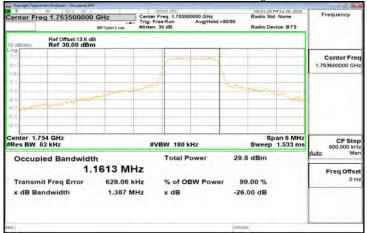
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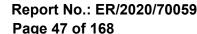


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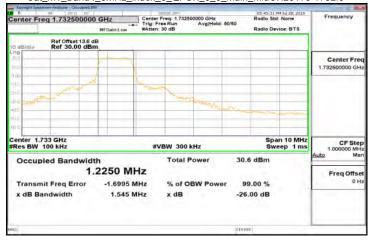
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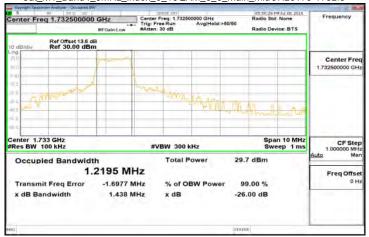




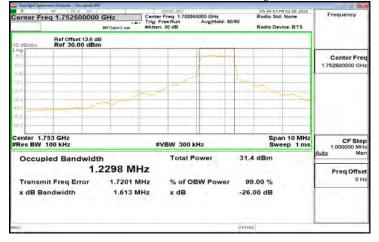
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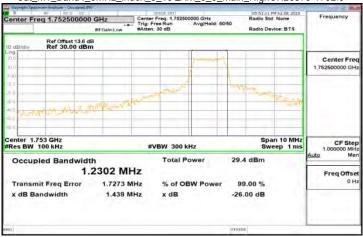
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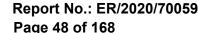


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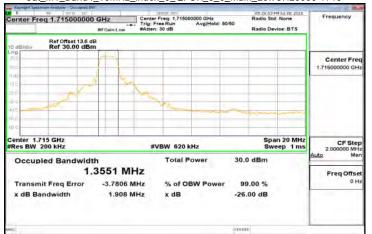
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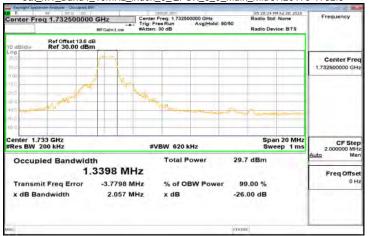
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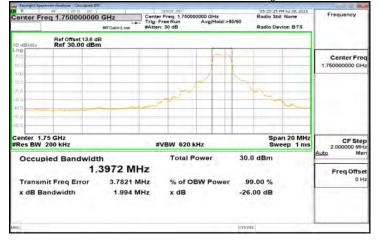
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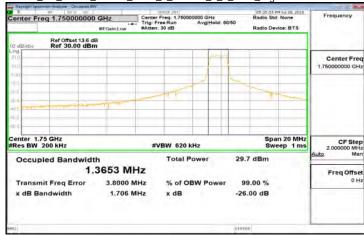
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Cat_M1_Band4_10MHz_index_7_16QAM_6_0_Main_HighCH20350-1750



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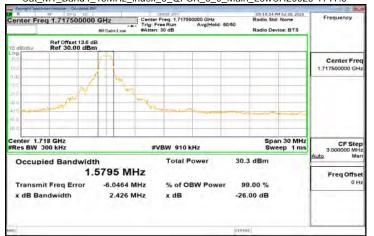
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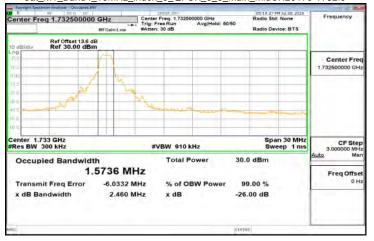
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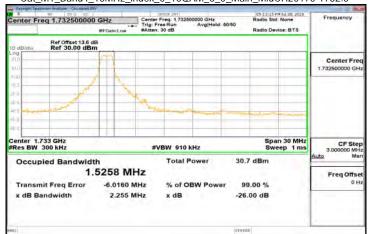




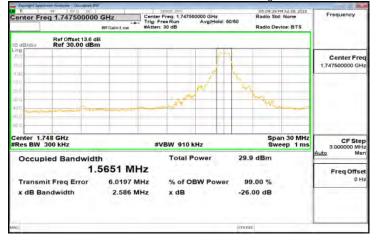
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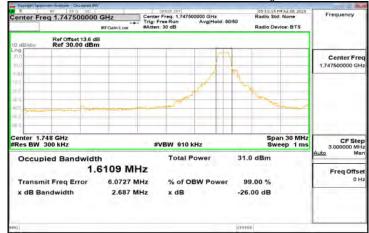
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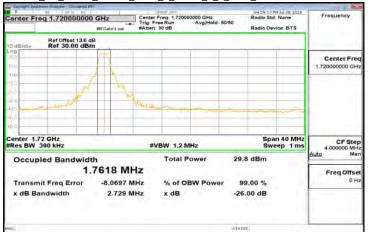
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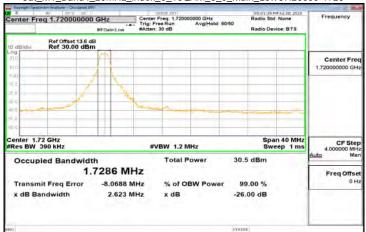


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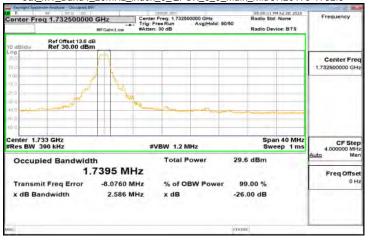




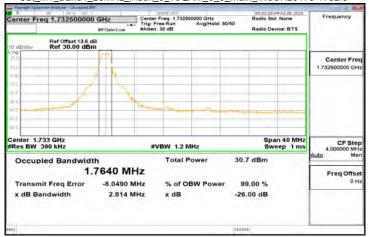
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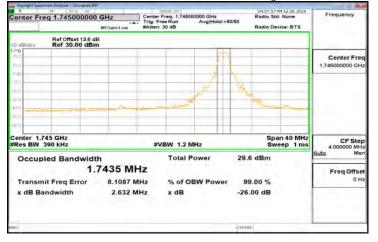
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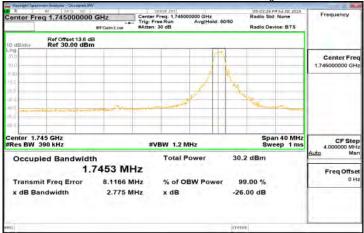
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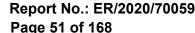


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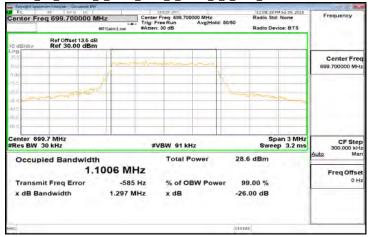
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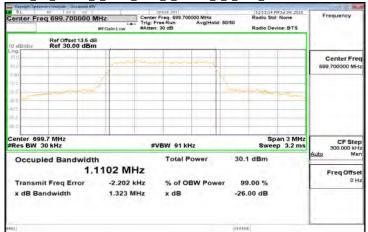




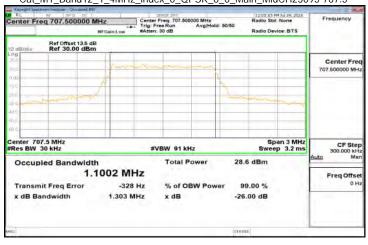




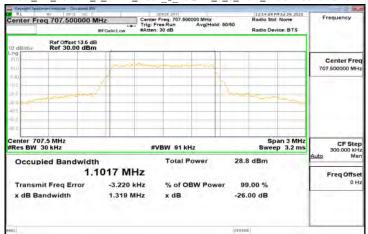
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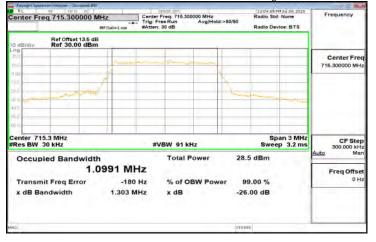
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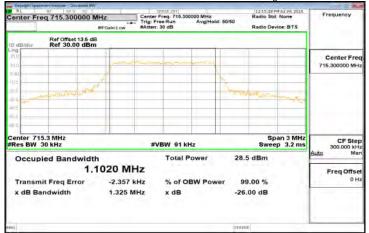
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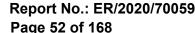


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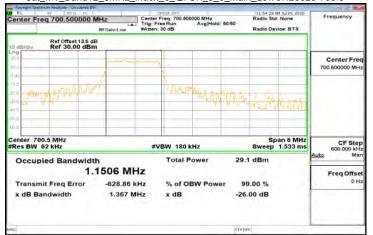
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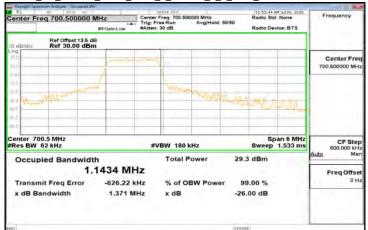




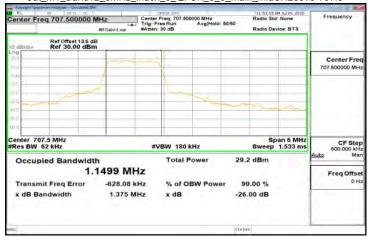




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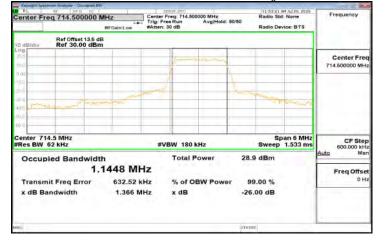
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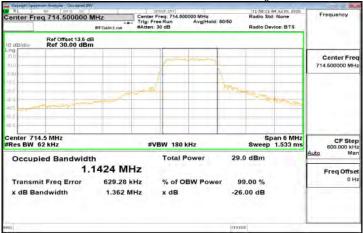
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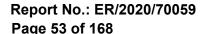


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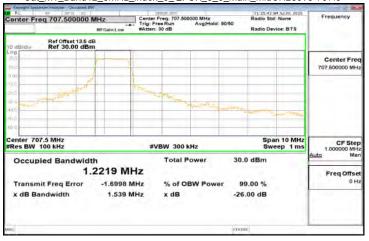
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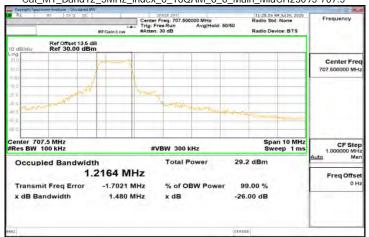




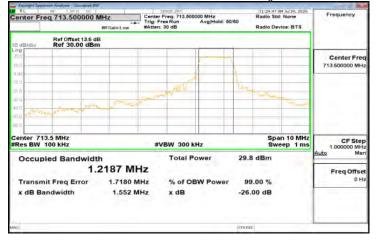
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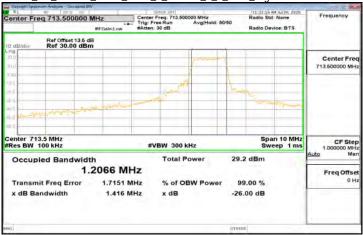
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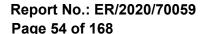


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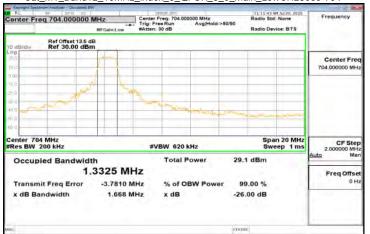
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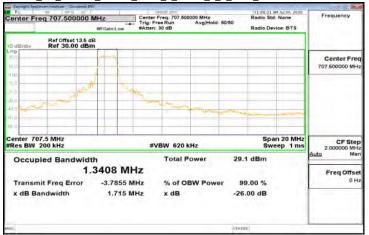
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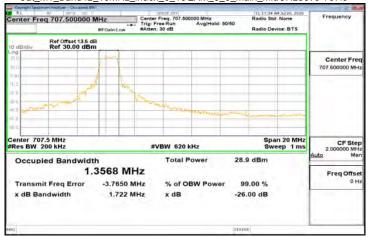




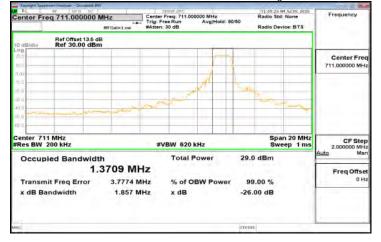
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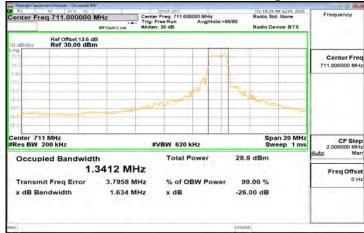
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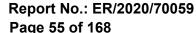


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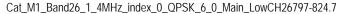
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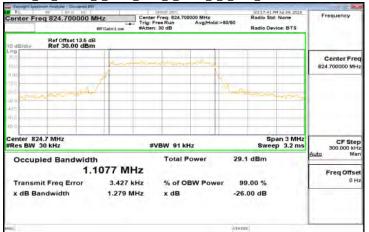
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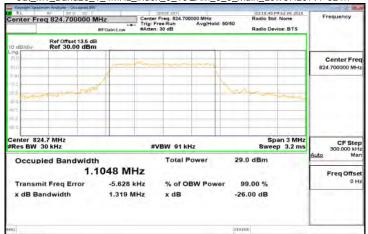




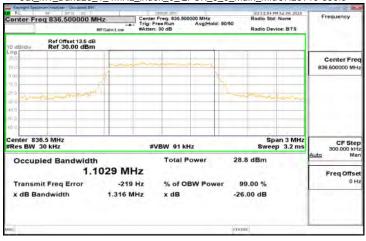




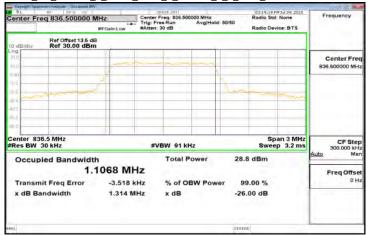
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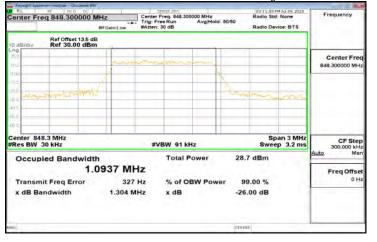
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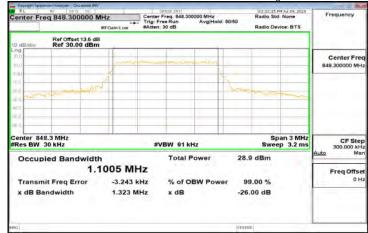
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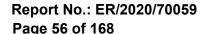


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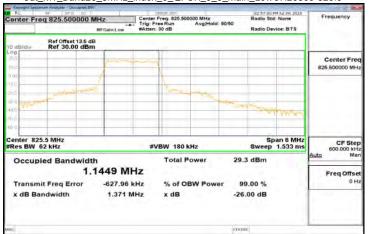
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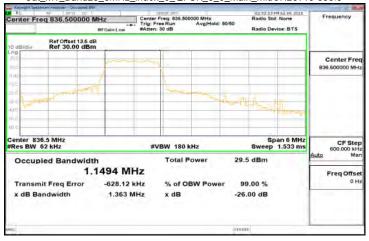
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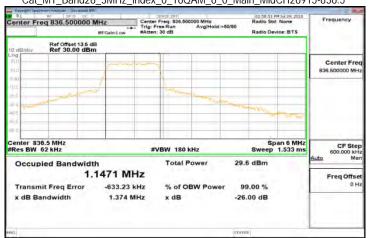




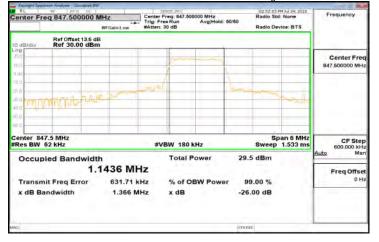
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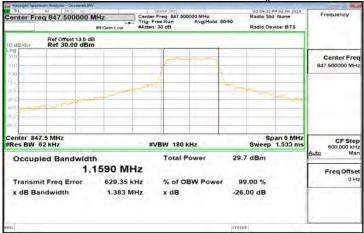
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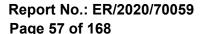
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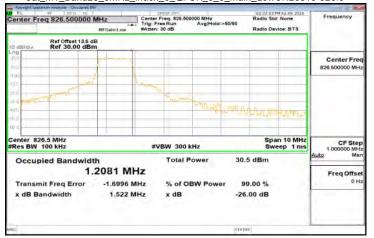
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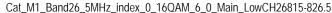
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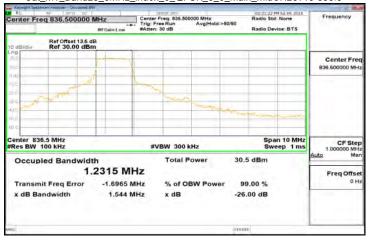
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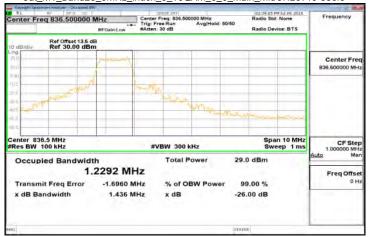




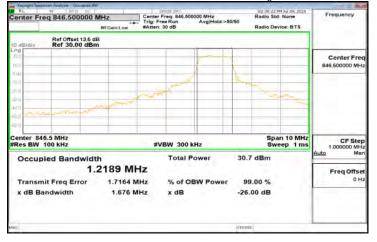
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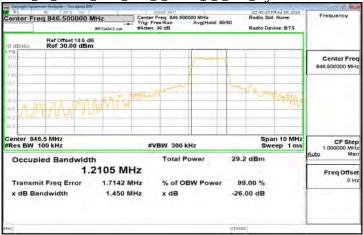
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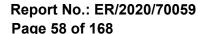


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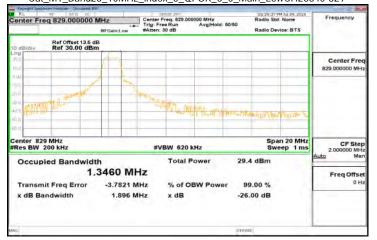
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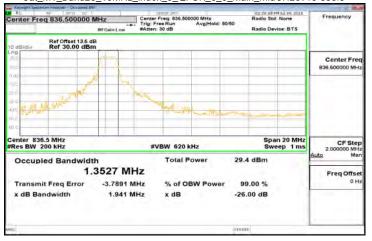
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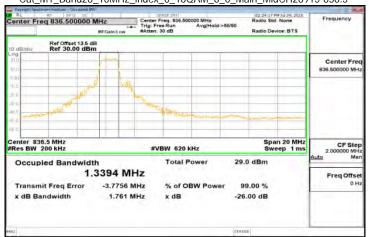




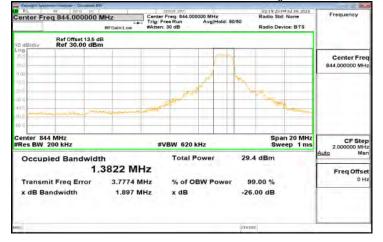
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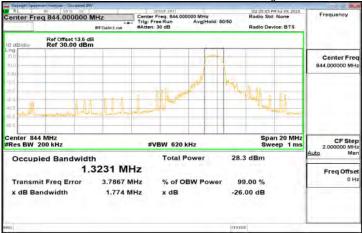
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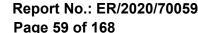
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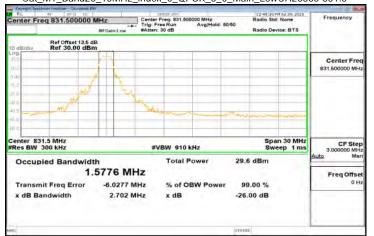
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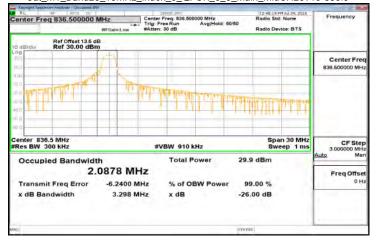
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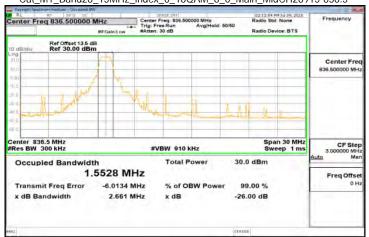




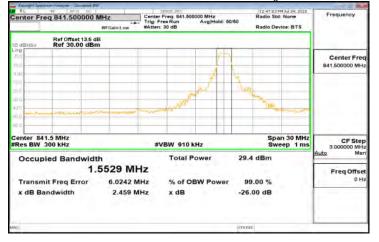
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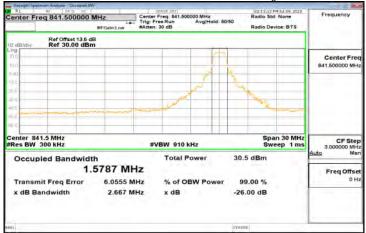
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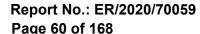
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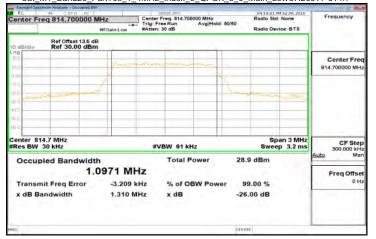
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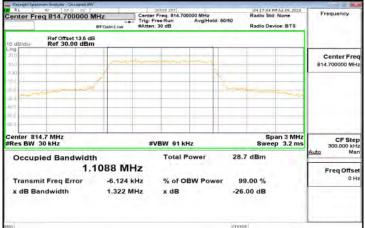




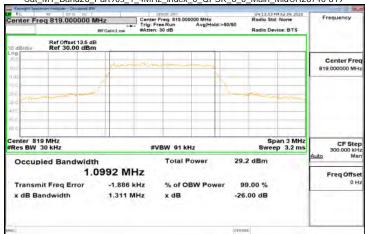
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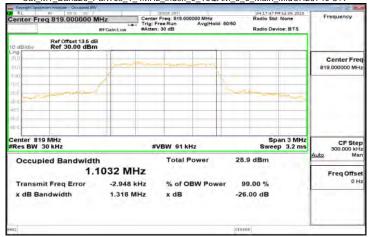




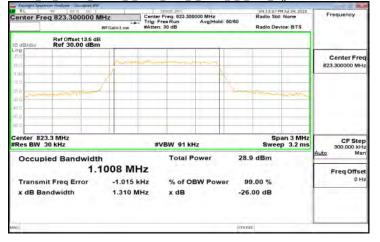
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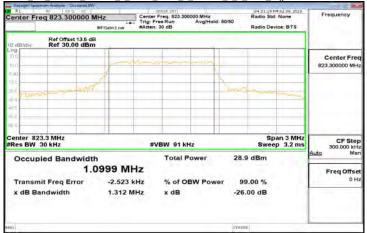




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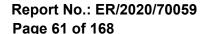


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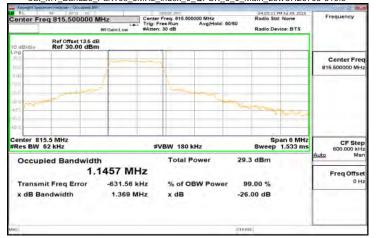
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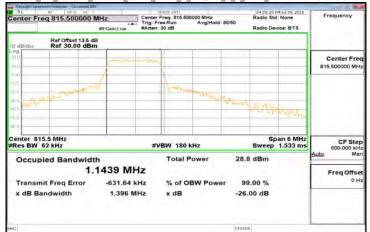




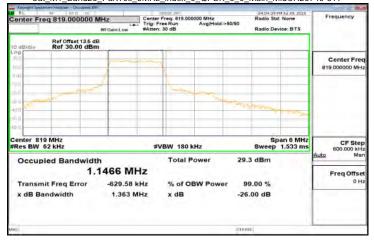




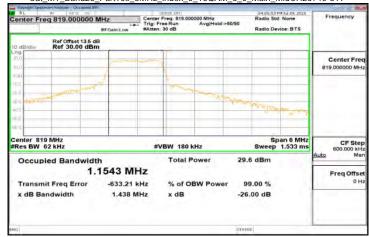
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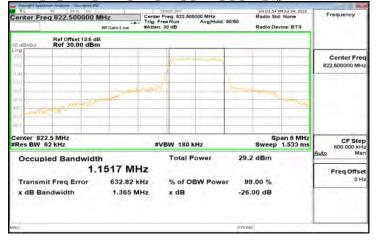
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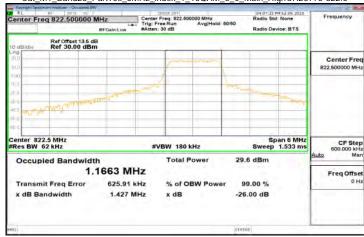
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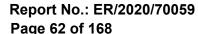


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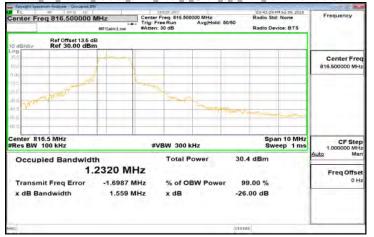
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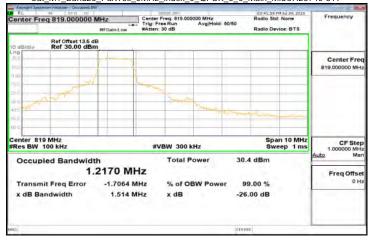




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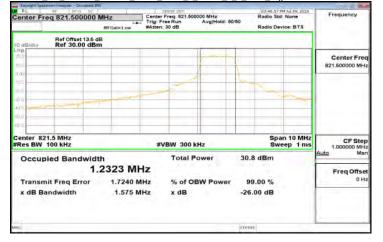
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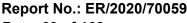


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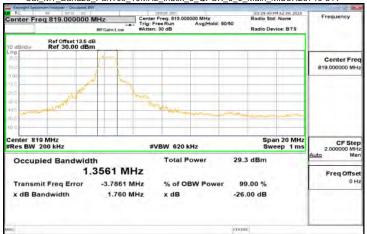
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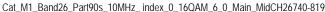


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Cat_M1_Band26_Part90s_10MHz_index_0_QPSK_6_0_Main_MidCH26740-819







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prosecuted to the fullest extent of the law.



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OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h), §90.543(a)(1)

RSS-130 §4.7, RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §6.5, RSS-139 §6.6

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

FCC §27.53(g) for B12

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

ISED RSS-130 §4.7.1 for B12

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least 43 + 10 log10 p (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

FCC §27.53(h)(3) for B4

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

RSS-139 §6.6 for B4

In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log10 p (watts) dB.

After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log10 p (watts) dB.

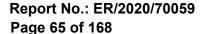
FCC §90.691 Emission mask requirements for EA-based systems for B26

- (a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
- (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log 10(f/6.1) decibels or 50 + 10 Log 10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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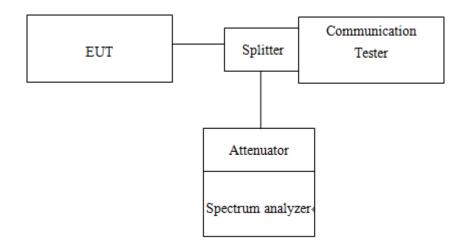
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8.2 Test SET-UP



8.3 Measurement Procedure

8.3.1 Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

8.3.2 Band Edge

- To connect Antenna Port of EUT to Spectrum.
- 2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW ≥ 1% EBW.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

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Report No.: ER/2020/70059

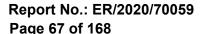
Page 66 of 168

8.4 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site									
EQUIPMENT	MFR	MODEL	MODEL SERIAL		CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020				
Radio Communication Analyer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021				
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021				
EXA Spectrum Analyz- er	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021				
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021				
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021				
Splitter	RF-LAMBAD	RFLT2W1G1 8G	11-JSPF412- 018	01/02/2020	01/01/2021				

8.5 Measurement Result:

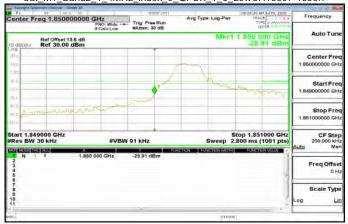
Refer to next pages.

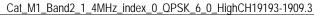




8.5.1 Bandedge

Cat_M1_Band2_1_4MHz_index_0_QPSK_1_0_LowCH18607-1850.7







Cat_M1_Band2_1_4MHz_index_0_QPSK_1_5_HighCH19193-1909.3



Cat_M1_Band2_3MHz_index_0_QPSK_1_0_LowCH18615-1851.5



Cat_M1_Band2_1_4MHz_index_0_QPSK_6_0_LowCH18607-1850.7



Cat_M1_Band2_3MHz_index_1_QPSK_1_5_HighCH19185-1908.5

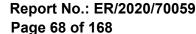


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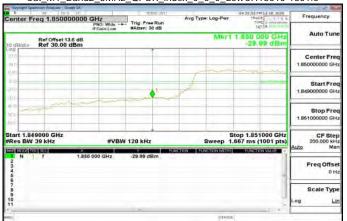
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Cat_M1_Band2_3MHz_QPSK_index_0_6_0_LowCH18615-1851.5



Cat_M1_Band2_5MHz_index_3_QPSK_1_5_HighCH19175-1907.5



Cat_M1_Band2_3MHz_index_1_QPSK_6_0_HighCH19185-1908.5



Cat_M1_Band2_5MHz_index_0_QPSK_6_0_LowCH18625-1852.5



Cat_M1_Band2_5MHz_index_0_QPSK_1_0_LowCH18625-1852.5



Cat_M1_Band2_5MHz_index_3_QPSK_6_0_HighCH19175-1907.5

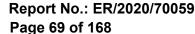


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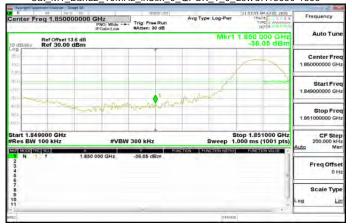
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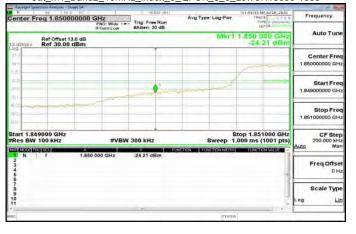
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Cat_M1_Band2_15MHz_index_0_QPSK_1_0_LowCH18675-1857.5



Cat_M1_Band2_10MHz_index_0_QPSK_6_0_LowCH18650-1855



Cat_M1_Band2_15MHz_index_11_QPSK_1_5_HighCH19125-1902.5



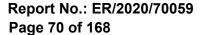
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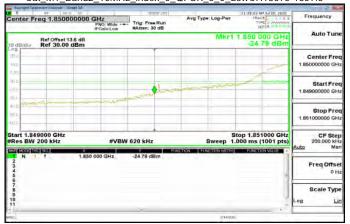
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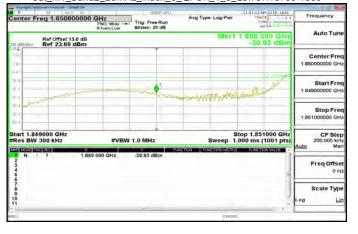
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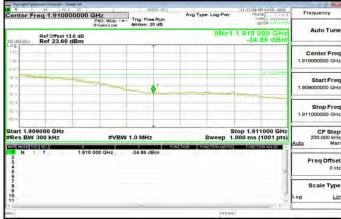
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Cat_M1_Band2_20MHz_index_0_QPSK_1_0_LowCH18700-1860



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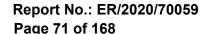


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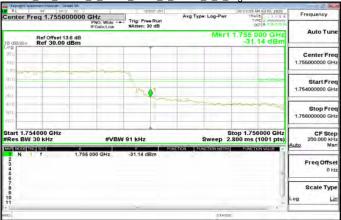




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Cat_M1_Band4_1_4MHz_index_0_QPSK_6_0_HighCH20393-1754.3



Cat_M1_Band4_1_4MHz_index_0_QPSK_1_5_HighCH20393-1754.3



Cat_M1_Band4_3MHz_index_0QPSK_1_0_LowCH19965-1711.5



Cat_M1_Band4_1_4MHz_ index_0_QPSK_6_0_LowCH19957-1710.7



Cat_M1_Band4_3MHz_index_1_QPSK_1_5_HighCH20385-1753.5



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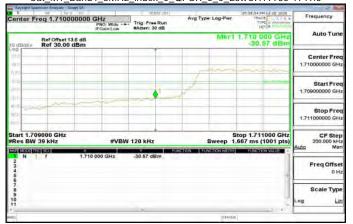
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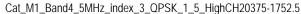
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Cat_M1_Band4_3MHz_index_0_QPSK_6_0_LowCH19965-1711.5







Cat_M1_Band4_3MHz_index_1_QPSK_6_0_HighCH20385-1753.5



Cat_M1_Band4_5MHz_index_0_QPSK_6_0_LowCH19975-1712.5



Cat_M1_Band4_5MHz_index_0_QPSK_1_0_LowCH19975-1712.5



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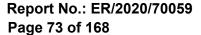
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Cat_M1_Band4_10MHz_index_0_QPSK_1_0_LowCH20000-1715



Cat_M1_Band4_10MHz_index_7_QPSK_6_0_HighCH20350-1750



Cat_M1_Band4_10MHz_index_7_QPSK_1_5_HighCH20350-1750



Cat_M1_Band4_15MHz_index_0_QPSK_1_0_LowCH20025-1717.5



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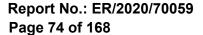


Cat_M1_Band4_15MHz_index_11_QPSK_1_5_HighCH20325-1747.5



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Cat_M1_Band4_15MHz_index_0_QPSK_6_0_LowCH20025-1717.5



Cat_M1_Band4_20MHz_index_15_QPSK_1_5_HighCH20300-1745



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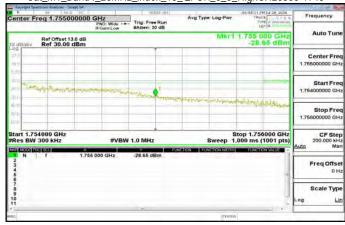
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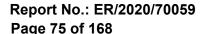
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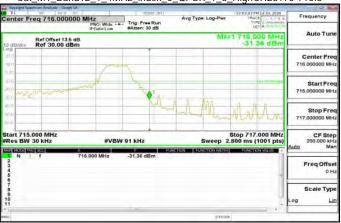
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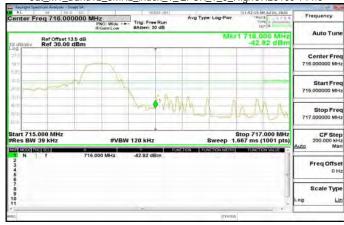
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Cat_M1_Band12_3MHz_index_1_QPSK_1_5_HighCH23165-714.5



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Cat_M1_Band12_3MHz_index_0_QPSK_6_0_LowCH23025-700.5



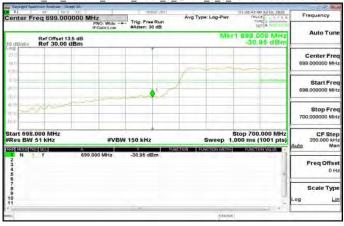
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Cat_M1_Band12_5MHz_index_0_QPSK_6_0_LowCH23035-701.5



Cat_M1_Band12_5MHz_index_0_QPSK_1_0_LowCH23035-701.5



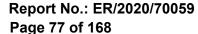
Cat_M1_Band12_5MHz_index_3_QPSK_6_0_HighCH23155-713.5



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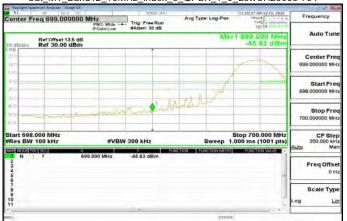
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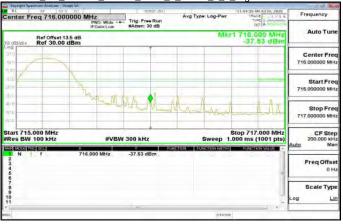
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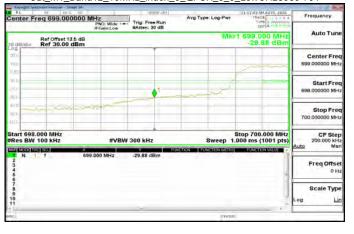
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Cat_M1_Band26_1_4MHz_index_0_QPSK_1_0_LowCH26797-824.7



Cat_M1_Band12_10MHz_index_0_QPSK_6_0_LowCH23060-704

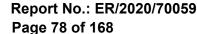


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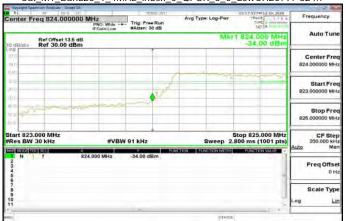
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Cat_M1_Band26_1_4MHz_index_0_QPSK_6_0_LowCH26797-824.7



Cat_M1_Band26_3MHz_index_1_QPSK_1_5_HighCH27025-847.5



Cat_M1_Band26_1_4MHz_index_0_QPSK_6_0_HighCH27033-848.3



Cat_M1_Band26_3MHz_index_0_QPSK_6_0_LowCH26805-825.5



Cat_M1_Band26_3MHz_index_0_QPSK_1_0_LowCH26805-825.5



Cat_M1_Band26_3MHz_index_1_QPSK_6_0_HighCH27025-847.5



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Cat_M1_Band26_5MHz_index_0_QPSK_1_0_LowCH26815-826.5



Cat_M1_Band26_5MHz_index_3_QPSK_6_0_HighCH27015-846.5



Cat_M1_Band26_5MHz_index_3_QPSK_1_5_HighCH27015-846.5



Cat_M1_Band26_10MHz_index_0_QPSK_1_0_LowCH26840-829



Cat_M1_Band26_5MHz_index_0_QPSK_6_0_LowCH26815-826.5



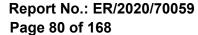
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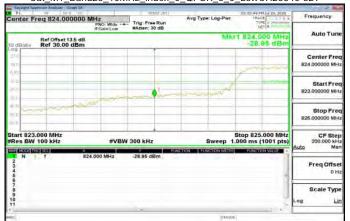
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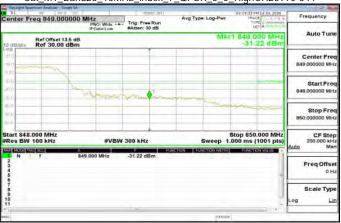
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Cat_M1_Band26_15MHz_index_11_QPSK_1_5_HighCH26965-841.5



Cat_M1_Band26_10MHz_index_7_QPSK_6_0_HighCH26990-844



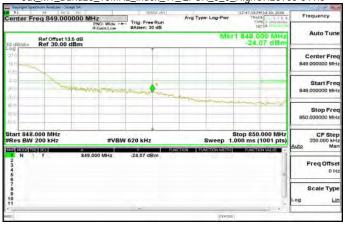
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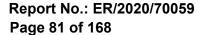
Cat_M1_Band26_15MHz_index_11_QPSK_6_0_HighCH26965-841.5



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Cat_M1_Band26_Part90s_1_4MHz_index_0_QPSK_1_0_LowCH26697-814.7







Cat_M1_Band26_Part90s_1_4MHz_index_0_QPSK_1_5_HighCH26783-823.3



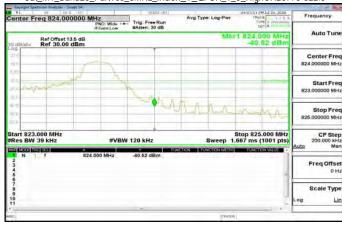
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Cat_M1_Band26_Part90s_1_4MHz_index_0_QPSK_6_0_LowCH26697-814.7



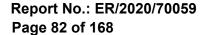
Cat_M1_Band26_Part90s_3MHz_index_1_QPSK_1_5_HighCH26775-822.5



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Cat_M1_Band26_Part90s_3MHz_index_0_QPSK_6_0_LowCH26705-815.5



Cat_M1_Band26_Part90s_5MHz_index_3_QPSK_1_5_HighCH26765-821.5



Cat_M1_Band26_Part90s_3MHz_index_1_QPSK_6_0_HighCH26775-822.5



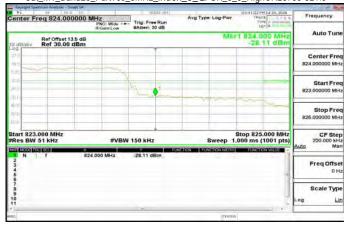
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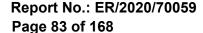
Cat_M1_Band26_Part90s_5MHz_index_3_QPSK_6_0_HighCH26765-821.5



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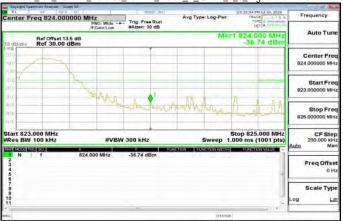


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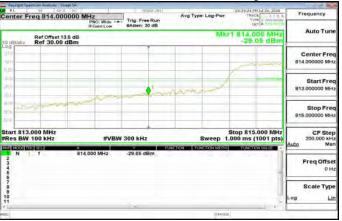




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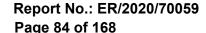
Cat_M1_Band26_Part90s_10MHz_index_0_QPSK_6_0_HighCH26740-819



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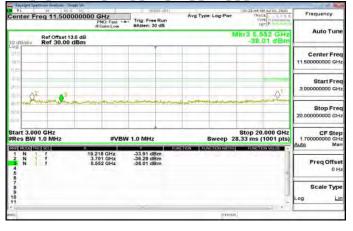
8.5.2 **Spurious Emission**

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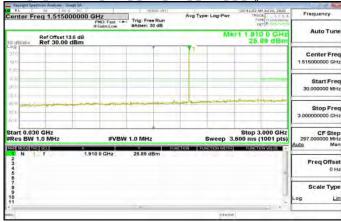




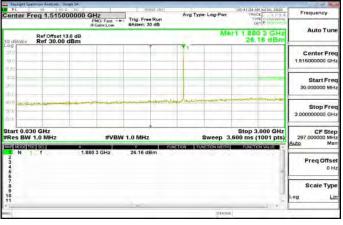
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Cat_M1_30MHz~3GHz_Band2_1_4MHz_index_0_QPSK_1_0_HighCH19193-1909.3



Cat_M1_30MHz~3GHz_Band2_1_4MHz_index_0_QPSK_1_0_MidCH18900-1880



Cat_M1_3GHz~10GHz_Band2_1_4MHz_index_0_QPSK_1_0_HighCH19193-1909.3



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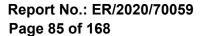
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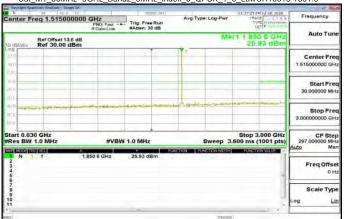
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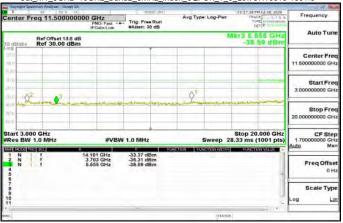


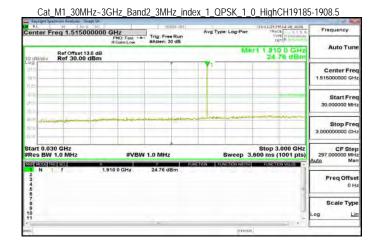
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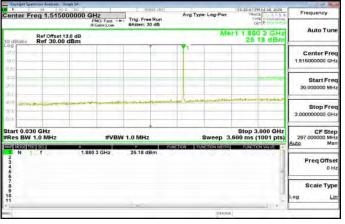


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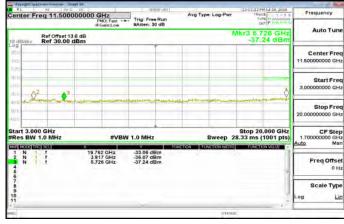




Cat_M1_30MHz~3GHz_Band2_3MHz_index_0_QPSK_1_0_MidCH18900-1880







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