

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART C REQUIREMENT

OF

Product Name:	Smart Phone
Brand Name:	Nokia
Model No.:	TA-1007
Model Difference:	N/A
FCC ID:	2AJOTTA-1007
Report No.:	ER/2017/60114
Issue Date:	Jul. 17, 2017
FCC Rule Part:	2 , 22H & 24E & 27C
Prepared for:	HMD Global Oy Karaportti 2, 02610 Espoo, Finland SGS Taiwan Ltd. Electronics & Communication Laboratory
Prepared by:	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803



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VERIFICATION OF COMPLIANCE

Applicant: HMD Global Oy
Karaportti 2, 02610 Espoo, Finland

Product Name: Smart Phone

Brand Name: Nokia

Model No.: TA-1007

Model Difference: N/A

FCC ID: 2AJOTTA-1007

File Number: ER/2017/60114

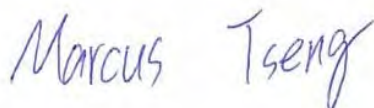
Date of test: Jun. 24, 2017 ~ Jul. 04, 2017

Date of EUT Received: Jun. 24, 2017

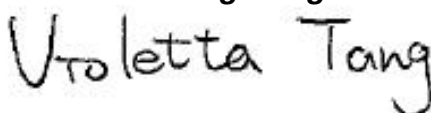
We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-D-2010 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

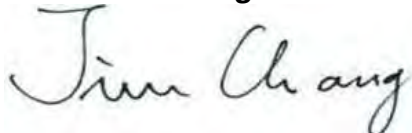
The test results of this report relate only to the tested sample identified in this report.

Test By:**Date:**

Jul. 16, 2017

Marcus Tseng / Engineer**Prepared By:****Date:**

Jul. 16, 2017

Violetta Tang / Clerk**Approved By:****Date:**

Jul. 16, 2017

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
ER/2017/60114	Rev.00	Initial creation of document	Jul. 16, 2017

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1. GENERAL PRODUCT INFORMATION

1.1 Product Description

General:

Product Name:	Smart Phone		
Brand Name:	Nokia		
Model No.:	TA-1007		
Model difference:	N/A		
Hardware Version:	870		
Software Version:	V0.140		
USB Cable:	Model No.: CUBB01M-FA010-DH, Supplier: Nokia		
Headset	Model No.: WH-108, Supplier: Nokia		
Power Supply:	3.85Vdc from Rechargeable Li-polymer Battery or 5V from AC/DC Adapter		
	Battery:	Model No.: HE338, Supplier: Nokia	
	Adapter:	Model No.: FC0102, Supplier: Nokia	

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GSM / WCDMA / LTE:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	GSM/GPRS 850	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850	824.2 MHz– 848.8 MHz	27dBm
	GSM/GPRS 1900	1850.2MHz – 1909.8MHz	30dBm
	EDGE 1900	1850.2MHz – 1909.8MHz	26dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	23.5dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
	LTE-Band 5 (1.4MHz)	824.7MHz – 848.3MHz	23dBm
	LTE-Band 5 (3MHz)	825.5MHz – 847.5MHz	23dBm
	LTE-Band 5 (5MHz)	826.5MHz – 846.5MHz	23dBm
	LTE-Band 5 (10MHz)	829.0MHz – 844.0MHz	23dBm
	LTE-Band 7 (5MHz)	2502.5MHz – 2567.5MHz	23dBm
	LTE-Band 7 (10MHz)	2505.0MHz – 2565.0MHz	23dBm
	LTE-Band 7 (15MHz)	2507.5MHz – 2562.5MHz	23dBm
	LTE-Band 7 (20MHz)	2510.0MHz – 2560MHz	23dBm
	LTE-Band 38 (5MHz)	2572.5MHz – 2617.5MHz	23dBm
	LTE-Band 38 (10MHz)	2575MHz – 2615MHz	23dBm
	LTE-Band 38 (15MHz)	2577.5MHz – 2612.5MHz	23dBm
	LTE-Band 38 (20MHz)	2580MHz – 2610MHz	23dBm
IMEI:	356038080015894		

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Type of Emission:

Frequency Band	Type of Emission:
GSM 850	245KGXW
GPRS 850	244KGXW
EDGE 850	246KG7W
GSM 1900	245KGXW
GPRS 1900	247KGXW
EDGE 1900	249KG7W
WCDMA Band II	4M16F9W
HSDPA Band II	4M17F9W
HSUPA Band II	4M16F9W
WCDMA Band V	4M15F9W
HSDPA Band V	4M15F9W
HSUPA Band V	4M15F9W

LTE Band	BW (MHz)	Modulation	Type of Emission
LTE Band 5	1.4MHz	QPSK	1M10G7D
LTE Band 5	1.4MHz	16QAM	1M10D7W
LTE Band 5	3MHz	QPSK	2M71G7D
LTE Band 5	3MHz	16QAM	2M71D7W
LTE Band 5	5MHz	QPSK	4M52G7D
LTE Band 5	5MHz	16QAM	4M51D7W
LTE Band 5	10MHz	QPSK	9M03G7D
LTE Band 5	10MHz	16QAM	8M98D7W
LTE Band 7	5MHz	QPSK	4M52G7D
LTE Band 7	5MHz	16QAM	4M51D7W
LTE Band 7	10MHz	QPSK	9M00G7D
LTE Band 7	10MHz	16QAM	8M97D7W
LTE Band 7	15MHz	QPSK	13M5G7D
LTE Band 7	15MHz	16QAM	13M5D7W
LTE Band 7	20MHz	QPSK	18M0G7D
LTE Band 7	20MHz	16QAM	18M0D7W
LTE Band 38	5MHz	QPSK	4M53G7D
LTE Band 38	5MHz	16QAM	4M52D7W
LTE Band 38	10MHz	QPSK	8M99G7D
LTE Band 38	10MHz	16QAM	8M97D7W
LTE Band 38	15MHz	QPSK	13M5G7D
LTE Band 38	15MHz	16QAM	13M5D7W
LTE Band 38	20MHz	QPSK	18M0G7D
LTE Band 38	20MHz	16QAM	17M9D7W

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Max ERP/EIRP Power Measurement Result:

	dBm		W
GSM 850	15.64	ERP	0.037
GPRS 850	19.15	ERP	0.082
EDGE 850	16.94	ERP	0.049
GSM 1900	23.49	EIRP	0.223
GPRS 1900	26.14	EIRP	0.411
EDGE 1900	24.95	EIRP	0.313
WCDMA Band II	21.10	EIRP	0.129
HSDPA Band II	24.69	EIRP	0.294
HSUPA Band II	22.56	EIRP	0.180
WCDMA Band V	10.48	ERP	0.011
HSDPA Band V	12.26	ERP	0.017
HSUPA Band V	11.63	ERP	0.015

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	dBm		W
LTE-Band 5 (Bandwidth 1.4MHz) QPSK	15.54	ERP	0.036
LTE-Band 5 (Bandwidth 1.4MHz) 16QAM	15.60	ERP	0.036
LTE-Band 5 (Bandwidth 3MHz) QPSK	15.48	ERP	0.035
LTE-Band 5 (Bandwidth 3MHz) 16QAM	15.65	ERP	0.037
LTE-Band 5 (Bandwidth 5MHz) QPSK	15.52	ERP	0.036
LTE-Band 5 (Bandwidth 5MHz) 16QAM	16.04	ERP	0.040
LTE-Band 5 (Bandwidth 10MHz) QPSK	15.24	ERP	0.033
LTE-Band 5 (Bandwidth 10MHz) 16QAM	15.89	ERP	0.039
LTE-Band 7 (Bandwidth 5MHz) QPSK	20.79	EIRP	0.120
LTE-Band 7 (Bandwidth 5MHz) 16QAM	21.01	EIRP	0.126
LTE-Band 7 (Bandwidth 10MHz) QPSK	23.67	EIRP	0.233
LTE-Band 7 (Bandwidth 10MHz) 16QAM	23.10	EIRP	0.204
LTE-Band 7 (Bandwidth 15MHz) QPSK	21.32	EIRP	0.136
LTE-Band 7 (Bandwidth 15MHz) 16QAM	22.40	EIRP	0.174
LTE-Band 7 (Bandwidth 20MHz) QPSK	20.77	EIRP	0.119
LTE-Band 7 (Bandwidth 20MHz) 16QAM	20.63	EIRP	0.116
LTE-Band 38 (Bandwidth 5MHz) QPSK	24.10	EIRP	0.257
LTE-Band 38 (Bandwidth 5MHz) 16QAM	21.05	EIRP	0.127
LTE-Band 38 (Bandwidth 10MHz) QPSK	20.98	EIRP	0.125
LTE-Band 38 (Bandwidth 10MHz) 16QAM	20.87	EIRP	0.122
LTE-Band 38 (Bandwidth 15MHz) QPSK	20.79	EIRP	0.120
LTE-Band 38 (Bandwidth 15MHz) 16QAM	20.35	EIRP	0.108
LTE-Band 38 (Bandwidth 20MHz) QPSK	20.80	EIRP	0.120
LTE-Band 38 (Bandwidth 20MHz) 16QAM	20.60	EIRP	0.115

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1.2 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22, 24, 27

ANSI / TIA / EIA 603-D-2010

KDB971168 D01 Power Meas license Digital System

KDB941225 of the Output power Procedure of (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

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

1. Note: All test items have been performed and record as per the above standards.

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 509634

1.4 Special Accessories

No special accessories were used during testing.

1.5 Equipment Modifications

There were no modifications incorporated into the EUT.

1.6 Referencing test data across separate equipment authorization

The test data in PCE test report (ER/2017/ 60102) under original FCC ID: 2AJOTTA-1029 are **fully** referred for the FCC ID: 2AJOTTA-1007 in this test report.

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2. 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

According to measurement procured TIA/EIA 603C, the EUT is placed on a turn 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.

2.3.2 Radiated Emissions (ERP/EIRP)

According to measurement procured TIA/EIA 603C, The EUT is placed on a turn table which is 0.8 m above ground plane. 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 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 according to the requirements in Section 8 and 13.

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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 example with cable loss 1 dB for low band and 1 for high band with 10 dB attenuator and 3.2 splitter.

Low Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =0.6+10=10.6(dB)

High Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =0.8+10=10.8(dB)

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.85Vdc	318
GSM1900	3.85Vdc	216
GPRS 850	3.85Vdc	329
GPRS 1900	3.85Vdc	226
EDGE 850	3.85Vdc	344
EDGE 1900	3.85Vdc	229
WCDMA B2	3.85Vdc	351
WCDMA B5	3.85Vdc	314
HSUPA B2	3.85Vdc	219
HSUPA B5	3.85Vdc	238
HSDPA B2	3.85Vdc	337
HSDPA B5	3.85Vdc	358

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 5_1.4M QPSK	3.85Vdc	550
LTE Band 5_1.4M 16QAM	3.85Vdc	494
LTE Band 5_3M QPSK	3.85Vdc	523
LTE Band 5_3M 16QAM	3.85Vdc	494
LTE Band 5_5M QPSK	3.85Vdc	550
LTE Band 5_5M 16QAM	3.85Vdc	504
LTE Band 5_10M QPSK	3.85Vdc	534
LTE Band 5_10M 16QAM	3.85Vdc	485

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 7_5M QPSK	3.85Vdc	743
LTE Band 7_5M 16QAM	3.85Vdc	665
LTE Band 7_10M QPSK	3.85Vdc	755
LTE Band 7_10M 16QAM	3.85Vdc	650
LTE Band 7_15M QPSK	3.85Vdc	754
LTE Band 7_15M 16QAM	3.85Vdc	667
LTE Band 7_20M QPSK	3.85Vdc	728
LTE Band 7_20M 16QAM	3.85Vdc	649

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 38_5M QPSK	3.85 Vdc	335
LTE Band 38_5M 16QAM	3.85 Vdc	291
LTE Band 38_10M QPSK	3.85 Vdc	314
LTE Band 38_10M 16QAM	3.85 Vdc	277
LTE Band 38_15M QPSK	3.85 Vdc	316
LTE Band 38_15M 16QAM	3.85 Vdc	281
LTE Band 38_20M QPSK	3.85 Vdc	305
LTE Band 38_20M 16QAM	3.85 Vdc	276

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2.6. Configuration of Tested System

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

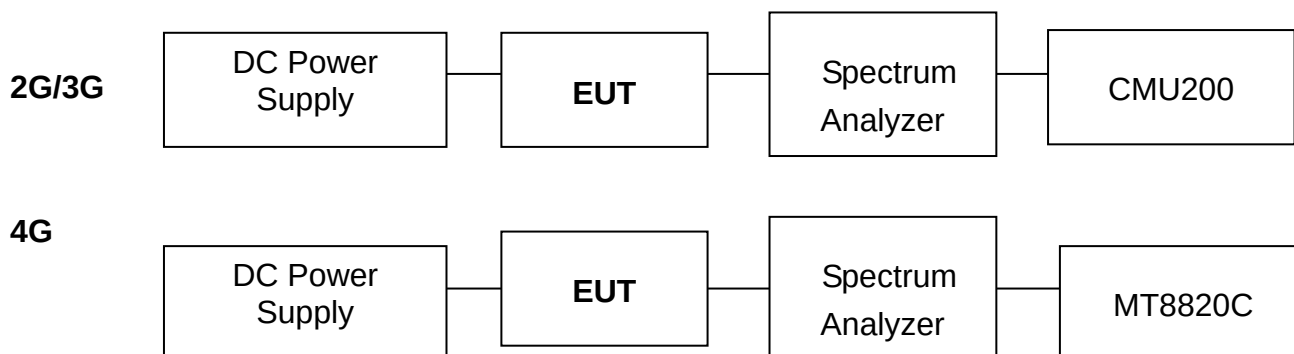


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

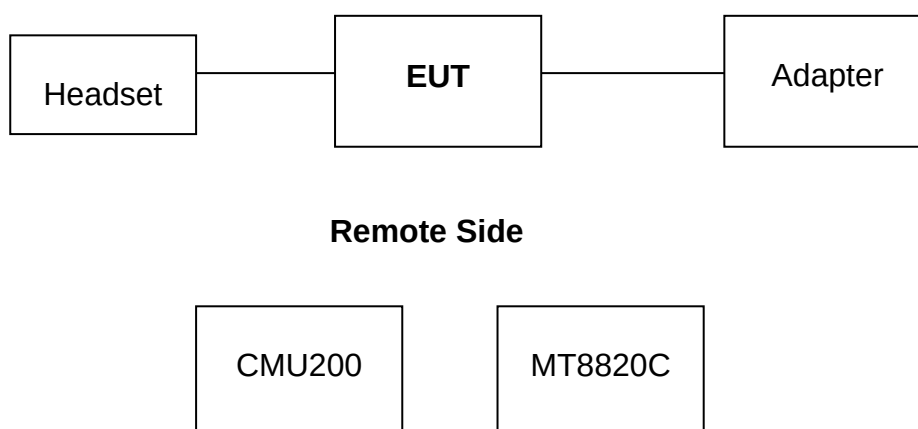


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded
2.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	shielded	Un-shielded
3.	DC Power Supply	HP	E3640A	KR93300208	N/A	Unshielded
4.	Headset	Nokia	WH-108	N/A	N/A	N/A

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(5) GSM 850 and band 5 §24.232(c) GSM 1900 and band 2 §27.50(h)(2) band 7 and 38	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h)(3) §27.53(m)(4) (6)	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.50(c)(5) §27.53(g) §27.53(h)(3) §27.53(m)(4)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.53(d) (5)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability	Compliant

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

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:

BAND	ERP/EIRP	RADIATED EMISSION and Wireless charging Cover
GSM/GPRS/EDGE 850	E2-plan	E2-plan
GSM/GPRS/EDGE 1900	E2-plan	E2-plan
WCDMA/HSPA Band II	E2-plan	E2-plan
WCDMA/HSPA Band IV	E2-plan	E2-plan
WCDMA/HSPA Band V	E2-plan	E2-plan
LTE Band 5	E2-plan	E2-plan
LTE Band 7	H-plan	H-plan
LTE Band 38	H-plan	H-plan

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GSM/GPRS/EDGE MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	128 to 251	128, 190, 251	GSM/GPRS/EDGE 850
EIRP	512 to 810	512, 661, 810	GSM/GPRS/EDGE 1900
FREQUENCY STABILITY	128 to 251 512 to 810	190 661	GPRS 850 GPRS 1900
OCCUPIED BANDWIDTH	128 to 251 512 to 810	190 661	GSM/GPRS/EDGE 850 GSM/GPRS/EDGE 1900
PEAK TO AVERAGE RATIO	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GSM/GPRS/EDGE 850 GSM/GPRS/EDGE 1900
BAND EDGE	128 to 251 512 to 810	128, 251 512, 810	GSM/GPRS/EDGE 850 GSM/GPRS/EDGE 1900
CONDCUDED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GSM/GPRS/EDGE 850 GSM/GPRS/EDGE 1900
RADIATED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GPRS 850 GPRS 1900

WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538	9262, 9400, 9583	WCDMA/HSPA Band II
FREQUENCY STABILITY	4132 to 4233 9262 to 9538	4183 9400	WCDMA Band II WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band V
BAND EDGE	4132 to 4233 9262 to 9538	4132, 4233 9262, 9583	WCDMA Band II WCDMA Band V
CONDCUDED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9583	WCDMA Band II WCDMA Band V
RADIATED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9583	HSDPA Band II HSDPA Band V

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LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	20450 to 20600	20525	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	16QAM	Full RB
BAND EDGE	20470 to 20643	20470, 20643	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK,	1 RB, 0 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,	1 RB, 0 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,	1 RB, 0 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20425 to 20625	20425, 20525, 20625	5MHz	16QAM	1 RB/ 0 RB Offest

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LTE Band 7 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20800 to 21400	21100	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	20775 to 21425	20775, 21100, 21425	5MHz	16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	16QAM	Full RB
BAND EDGE / EMISSION MASK	20775 to 21425	20775, 21100, 21425	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK,	1 RB, 0 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK,	1 RB, 0 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK,	1 RB, 0 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20775 to 21425	20775, 21100, 21425	10MHz	QPSK,	1 RB, 49 RB Offest

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LTE Band 38 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	37775 to 38225	37775, 38000, 38225	5MHz	16QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	16QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	16QAM	Full RB
BAND EDGE / EMISSION MASK	37775 to 38225	37775, 38000, 38225	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	37775 to 38225	37775, 38000, 38225	5MHz	QPSK,	1 RB, 0 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK,	1 RB, 0 RB Offest
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK,	1 RB, 0 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	37775 to 38225	37775, 38000, 38225	5MHz	QPSK,	1 RB, 0 RB Offest

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5. 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:

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

Measurement uncertainty (Polarization : Horizontal)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	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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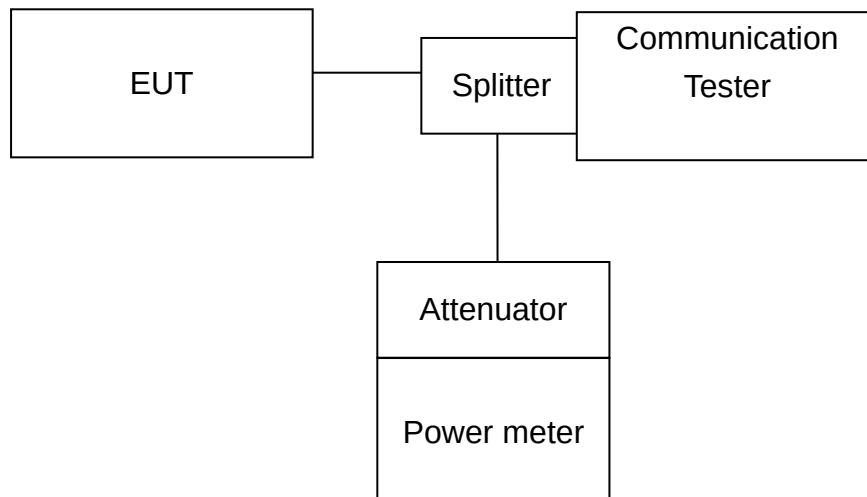
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

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. Test Set-up



Note: Measurement setup for testing on Antenna connector

6.3. Measurement Procedure

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 test 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

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6.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2017	02/10/2018
Radio Communication Analyser	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

6.5. Measurement Result

RF Conducted Output Power

GSM/GPRS/EDGE (GMSK; 8-PSK) Result:

EUT Mode	Frequency (MHz)	CH	Average Burst Power (1DN 1UP) Class 8 (dBm)
GSM 850	824.2	128	33.27
	836.6	190	33.53
	848.8	251	33.23
GSM 1900	1850.2	512	29.80
	1880.0	661	30.08
	1909.8	810	30.64

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EUT Mode	Frequency (MHz)	CH	Average Burst Power (1DN 1UP) Class 8 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 3UP) Class 12 (dBm)	Average Burst Power (1DN 4UP) Class 12 (dBm)
GPRS 850	824.2	128	33.27	28.62	27.67	26.32
	836.6	190	33.53	28.78	27.05	25.68
	848.8	251	33.23	28.88	26.80	25.36
GPRS 1900	1850.2	512	29.80	27.87	26.69	25.31
	1880.0	661	30.08	27.83	25.96	24.55
	1909.8	810	30.64	28.33	26.00	24.62
EDGE 850	824.2	128	25.98	25.16	23.71	22.07
	836.6	190	25.94	25.12	23.57	22.04
	848.8	251	25.93	25.13	23.54	22.05
EDGE 1900	1850.2	512	25.27	24.22	22.84	21.38
	1880.0	661	25.31	24.25	22.81	21.29
	1909.8	810	25.68	24.44	23.24	21.72

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WCDMA MODE:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

Results:

EUT Mode		WCDMA Band II	HSDPA Band II	HSUPA Band II
Frequency (MHz)	CH	Avg. Power (dBm)	Avg. Power (dBm)	Avg. Power (dBm)
1852.4	9262	23.47	22.32	21.94
1880.0	9400	23.43	22.38	22.06
1907.6	9538	23.19	22.02	22.18

EUT Mode		WCDMA Band V	HSDPA Band V	HSUPA Band V
Frequency (MHz)	CH	Avg. Power (dBm)	Avg. Power (dBm)	Avg. Power (dBm)
826.4	4132	24.21	23.09	22.88
836.6	4183	24.07	23.00	22.60
846.6	4233	24.34	23.07	22.19

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LTE Result:

LTE Band 5

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel I (Low) 20407	Channel I (Mid) 20525	Channel I (High) 20643	Channel I (Low) 20407	Channel I (Mid) 20525	Channel I (High) 20643
1.4	1	0	23.26	23.36	23.45	22.29	22.12	22.64
	1	5	23.13	23.30	23.38	22.11	22.27	22.42
	3	2	23.41	23.45	23.41	22.23	22.33	22.73
	6	0	22.40	22.51	22.54	21.32	21.28	21.35

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20415	Channel (Mid) 20525	Channel (High) 20635	Channel (Low) 20415	Channel (Mid) 20525	Channel (High) 20635
3	1	0	23.30	23.45	23.53	22.73	22.95	22.47
	1	14	23.24	23.45	23.37	22.16	22.34	22.07
	8	4	22.21	22.36	22.52	21.30	21.55	21.62
	15	0	22.20	22.37	22.52	21.17	21.38	21.55

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel I (Low) 20425	Channel I (Mid) 20525	Channel I (High) 20625	Channel I (Low) 20425	Channel I (Mid) 20525	Channel I (High) 20625
5	1	0	23.38	23.70	23.62	22.86	22.96	22.80
	1	24	23.49	23.51	23.43	22.73	22.27	22.94
	12	6	22.23	22.41	22.54	21.24	21.16	21.54
	25	0	22.31	22.40	22.61	21.27	21.27	21.66

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20450	Channel (Mid) 20525	Channel (High) 20600	Channel (Low) 20450	Channel (Mid) 20525	Channel (High) 20600
10	1	0	23.18	23.55	23.51	22.32	22.98	22.84
	1	49	23.23	23.52	23.40	22.49	22.51	22.12
	25	12	22.62	22.52	22.60	21.42	21.64	21.71
	50	0	22.53	22.51	22.65	21.47	21.39	21.41

LTE Band 7

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel I (Low) 20775	Channel I (Mid) 21100	Channel I (High) 21425	Channel I (Low) 20775	Channel I (Mid) 21100	Channel I (High) 21425
5	1	0	22.74	22.46	22.87	21.82	21.82	21.90
	1	24	22.75	22.53	22.95	21.65	21.51	21.63
	12	6	21.58	21.60	21.96	20.69	20.50	20.98
	25	0	21.65	21.59	21.82	20.98	20.55	20.84

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20800	Channel (Mid) 21100	Channel (High) 21400	Channel (Low) 20800	Channel (Mid) 21100	Channel (High) 21400
10	1	0	22.77	22.69	22.92	21.79	21.68	21.63
	1	49	22.80	22.72	22.81	21.66	21.87	21.82
	25	12	21.62	21.56	21.94	20.77	20.54	20.98
	50	0	21.53	21.58	21.92	20.54	20.52	20.95

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel I (Low) 20825	Channel I (Mid) 21100	Channel I (High) 21375	Channel I (Low) 20825	Channel I (Mid) 21100	Channel I (High) 21375
15	1	0	22.92	22.54	22.79	21.94	21.46	21.82
	1	74	22.83	22.60	22.95	21.84	21.48	21.95
	36	19	21.78	21.44	21.89	20.42	20.44	20.95
	75	0	21.65	21.49	21.94	20.54	20.50	20.92

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20850	Channel (Mid) 21100	Channel (High) 21350	Channel (Low) 20850	Channel (Mid) 21100	Channel (High) 21350
20	1	0	22.65	22.58	22.81	21.79	21.36	21.88
	1	99	22.60	22.55	22.95	21.79	21.64	21.85
	50	25	21.47	21.50	21.96	20.50	20.39	20.83
	100	0	21.49	21.56	21.95	20.61	20.52	20.79

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LTE Band 38

LTE Band 38 Uplink frequency band : 2570 to 2620 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel I (Low) 37775	Channel I (Mid) 38000	Channel I (High) 38225	Channel I (Low) 37775	Channel I (Mid) 38000	Channel I (High) 38225
5	1	0	23.46	23.72	23.39	22.73	22.87	22.67
	1	24	23.50	23.61	23.24	22.66	22.82	22.47
	12	6	22.58	22.64	22.46	21.80	21.87	21.40
	25	0	22.65	22.79	22.38	21.89	21.94	21.49

LTE Band 38 Uplink frequency band : 2570 to 2620 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 37800	Channel (Mid) 38000	Channel (High) 38200	Channel (Low) 37800	Channel (Mid) 38000	Channel (High) 38200
10	1	0	23.42	23.84	23.49	22.85	22.99	22.75
	1	49	23.63	23.60	23.49	22.87	22.58	22.47
	25	12	22.73	22.91	22.64	21.99	21.95	21.90
	50	0	22.76	22.84	22.55	21.79	21.80	21.64

LTE Band 38 Uplink frequency band : 2570 to 2620 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel I (Low) 37825	Channel I (Mid) 38000	Channel I (High) 38175	Channel I (Low) 37825	Channel I (Mid) 38000	Channel I (High) 38175
15	1	0	23.82	23.81	23.72	23.00	22.83	22.96
	1	74	23.87	23.57	23.39	22.93	22.79	22.39
	36	19	22.90	22.82	22.60	21.52	21.60	21.65
	75	0	22.93	22.77	22.60	21.61	21.68	21.57

LTE Band 38 Uplink frequency band : 2570 to 2620 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 37850	Channel (Mid) 38000	Channel (High) 38150	Channel (Low) 37850	Channel (Mid) 38000	Channel (High) 38150
20	1	0	23.63	23.89	23.69	22.87	22.98	22.89
	1	99	23.50	23.34	23.31	22.79	22.74	22.28
	50	25	22.78	22.91	22.69	21.86	21.95	21.70
	100	0	22.75	22.86	22.67	21.96	21.77	21.65

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HSDPA Release 6 MODE:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing.

HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	22.32	22.38	22.02	20.3dBm – 25.7dBm	Pass
	2	21.9	21.98	21.60	20.3dBm – 25.7dBm	Pass
	3	21.93	22.03	21.64	19.8dBm – 25.7dBm	Pass
	4	21.95	22.06	21.70	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	23.09	23.00	23.07	20.3dBm – 25.7dBm	Pass
	2	22.61	22.39	22.57	20.3dBm – 25.7dBm	Pass
	3	22.61	22.39	22.56	19.8dBm – 25.7dBm	Pass
	4	22.60	22.38	22.56	19.8dBm – 25.7dBm	Pass

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HSPA (HSDPA & HSUPA) Release 6 MODE

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Code s)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	21.94	22.06	22.18	18.8dBm – 25.7dBm	Pass
	2	21.03	20.98	20.74	16.8dBm – 25.7dBm	Pass
	3	20.88	20.57	20.92	17.8dBm – 25.7dBm	Pass
	4	21.77	21.46	21.61	16.8dBm – 25.7dBm	Pass
	5	22.4	22.5	22	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	22.88	22.60	22.19	18.8dBm – 25.7dBm	Pass
	2	21.57	21.87	21.76	16.8dBm – 25.7dBm	Pass
	3	21.52	21.49	21.39	17.8dBm – 25.7dBm	Pass
	4	21.89	22.18	22.14	16.8dBm – 25.7dBm	Pass
	5	22.90	22.80	22.8	18.8dBm – 25.7dBm	Pass

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Minimum Communications Power Measurement

PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	29.8	27.95	26.15	24.15	22.25	20.3	18.31	16.37	14.36

PCL	9	10	11	12	13	14	15
Output power (dBm)	12.41	10.42	8.22	6.07	3.96	1.86	-0.06

Note: The EUT output power was controlled by simulator. Set Communication Tester [MT8820C](#) PCL as above, and get the mobile phone output power reading.

WCDMA/HSDPA/HSUPA band II, V

The EUT output power was controlled by simulator. Set Communication Tester [MT8820C](#) function key "UE Power Control" and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data). The min. power was measures by a function key "minimum power" then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

7.1. Standard Applicable

According to FCC §2.1046

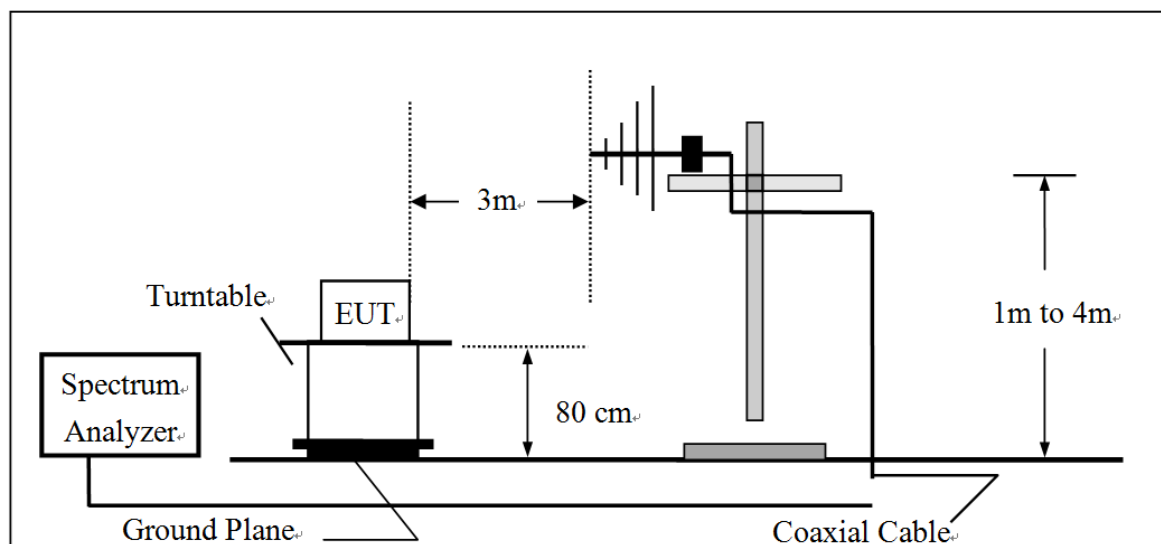
FCC 22.913(a) Mobile station is limited to 7W ERP.

FCC 24.232(c) Mobile and portable stations are limited to 2 W EIRP.

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W EIRP

7.2. Test SET-UP

(A) Radiated Power Test Set-Up, Frequency Below 1000MHz



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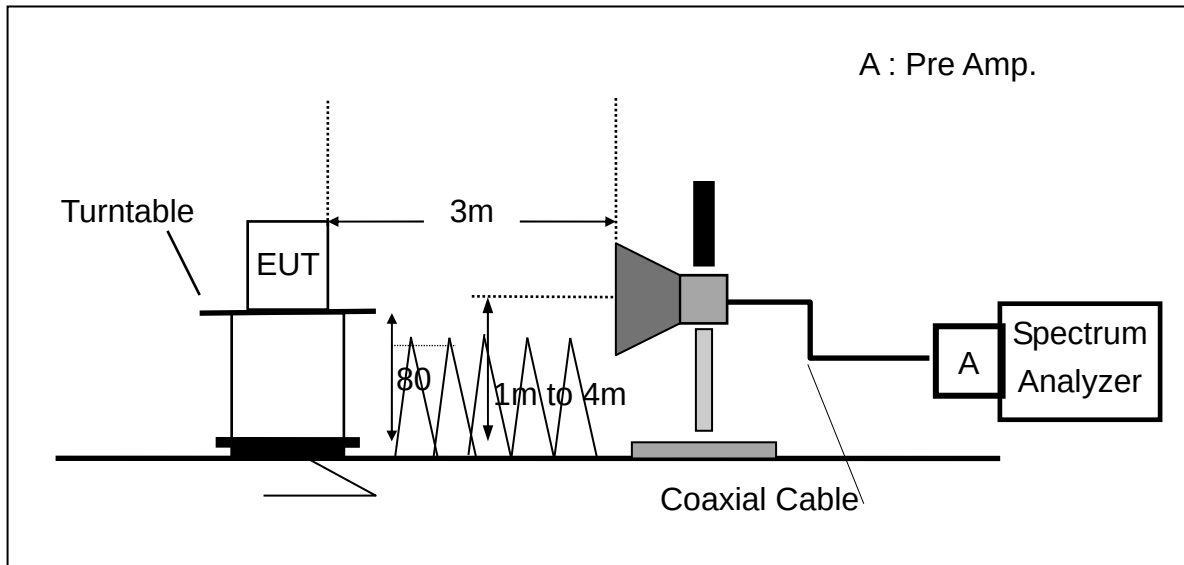
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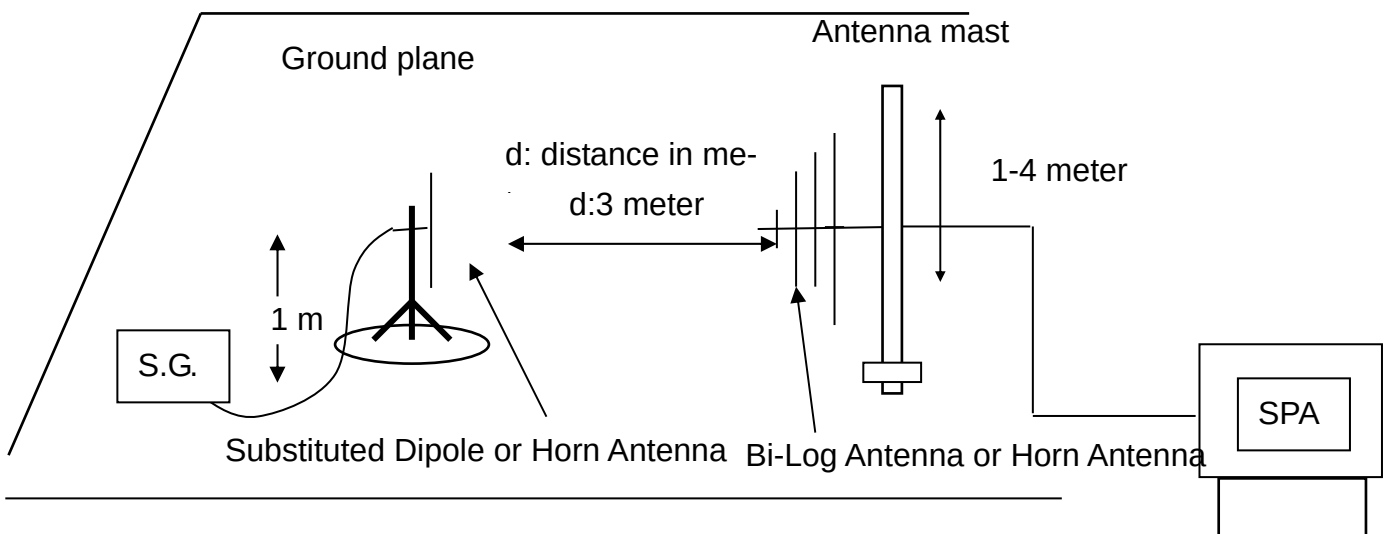
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 971168 D01
2. The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
3. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated
4. The testing follows the Measurement Procedure of FCC KDB 971168 D01
5. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
6. $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
7. $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
8. Spectrum setting:
 - (1) Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and $VBW \geq 3 \times RBW$.
 - (2) KDB 971168 D01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.

Set frequency = nominal signal center frequency;
 Set span = 2 X occupied BW;
 Set RBW $\approx$ 1~5% of the span, not to exceed 1 MHz
 Set VBW = 3 x RBW;
 Select average power (RMS) detector
 Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt integration time (ex. Point = 601points, then sweep time = $601 \times 10^{-3} = 6s$).

Activate trace averaging routine over a minimum of 10 sweeps;

Activate marker/span pair and set span = signal or channel bandwidth;

Activate the band/interval power marker function;

Record the band power level;

Record adjusted value as the average signal power level. Then activate the occupied bandwidth measurement function.

The proper adjustment due to limitation of spectrum capability is given compensated to spectrum with conversion factor of $10 \times \log(TBW/RBW)$, where TBW is the transmission of UE exceeding the maximum BW UE can extends, and RBW is the resolution BW in UE.

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7.4. Measurement Equipment Used

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/11/2017	05/10/2018
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/25/2017	04/24/2018
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2016	09/19/2017
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/05/2017	01/04/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/05/2017	01/04/2018
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/05/2017	01/04/2018
3m Site NSA	SGS	966 chamber	N/A	07/01/2017	06/30/2018
Low Loss Cable	Huber Suhner	966 TX	1	01/05/2017	01/04/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/05/2017	01/04/2018
EMI Test Receiver	R&S	ESCI7	100760	05/11/2017	05/10/2018
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2017	02/10/2018
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

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7.5. Measurement Result: (Peak) –using option of peak measurement

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GSM 850	824.2	128	V	7.52	3.31	-2.92	7.74	38.45
			H	6.67	3.31	-2.92	15.36	38.45
	836.6	190	V	7.14	3.29	-2.96	7.68	38.45
			H	6.57	3.29	-2.96	14.61	38.45
	848.8	251	V	7.46	3.27	-3.00	1.78	38.45
			H	6.97	3.27	-3.00	15.64	38.45
GPRS 850	824.2	128	V	7.52	3.31	-2.92	10.02	38.45
			H	6.67	3.31	-2.92	19.15	38.45
	836.6	190	V	7.15	3.29	-2.96	10.31	38.45
			H	6.57	3.29	-2.96	17.88	38.45
	848.8	251	V	7.47	3.27	-3.00	9.27	38.45
			H	6.97	3.27	-3.00	17.93	38.45
EDGE 850	824.2	128	V	7.51	3.31	-2.92	9.13	38.45
			H	6.67	3.31	-2.92	16.94	38.45
	836.6	190	V	7.14	3.29	-2.96	8.93	38.45
			H	6.57	3.29	-2.96	15.44	38.45
	848.8	251	V	7.46	3.27	-3.00	6.88	38.45
			H	6.97	3.27	-3.00	16.02	38.45

Remark : (1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GSM 1900	1850.2	512	V	0.51	9.94	-4.46	17.93	33.00
			H	0.91	9.94	-4.46	20.18	33.00
	1880.0	661	V	0.55	10.03	-4.51	17.74	33.00
			H	1.10	10.03	-4.51	23.49	33.00
	1909.8	810	V	0.45	10.13	-4.55	14.89	33.00
			H	0.96	10.13	-4.55	22.33	33.00
GPRS 1900	1850.2	512	V	0.51	9.94	-4.46	21.35	33.00
			H	0.91	9.94	-4.46	23.73	33.00
	1880.0	661	V	0.55	10.03	-4.51	19.72	33.00
			H	1.10	10.03	-4.51	26.14	33.00
	1909.8	810	V	0.45	10.13	-4.55	19.47	33.00
			H	0.96	10.13	-4.55	26.04	33.00
EDGE 1900	1850.2	512	V	0.51	9.94	-4.46	19.15	33.00
			H	0.91	9.94	-4.46	21.72	33.00
	1880.0	661	V	0.55	10.03	-4.51	19.18	33.00
			H	1.10	10.03	-4.51	24.95	33.00
	1909.8	810	V	0.45	10.13	-4.55	18.25	33.00
			H	0.96	10.13	-4.55	24.25	33.00

Remark: 1) (1) The RBW,VBW of SPA for frequency RBW=300K, VBW=1MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA B2	1852.4	9262	V	0.51	9.95	-4.46	12.71	33.00
			H	0.92	9.95	-4.46	20.39	33.00
	1880.0	9400	V	0.55	10.03	-4.51	16.54	33.00
			H	1.10	10.04	-4.51	21.10	33.00
	1907.6	9538	V	0.46	10.12	-4.55	12.67	33.00
			H	0.97	10.12	-4.55	19.18	33.00
HSDPA B2	1852.4	9262	V	0.51	9.95	-4.46	17.23	33.00
			H	0.92	9.95	-4.46	24.69	33.00
	1880.0	9400	V	0.55	10.03	-4.51	17.56	33.00
			H	1.09	10.03	-4.51	23.36	33.00
	1907.6	9538	V	0.46	10.12	-4.55	16.44	33.00
			H	0.97	10.12	-4.55	22.95	33.00
HSUPA B2	1852.4	9262	V	0.51	9.95	-4.46	13.90	33.00
			H	0.92	9.95	-4.46	22.53	33.00
	1880.0	9400	V	0.55	10.03	-4.51	17.15	33.00
			H	1.09	10.03	-4.51	22.56	33.00
	1907.6	9538	V	0.46	10.12	-4.55	14.39	33.00
			H	0.97	10.12	-4.55	20.54	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA B5	826.4	4132	V	7.57	3.30	-2.93	4.28	38.45
			H	6.73	3.30	-2.93	10.48	38.45
	836.6	4183	V	7.14	3.29	-2.96	1.88	38.45
			H	6.57	3.29	-2.96	9.22	38.45
	846.6	4233	V	7.20	3.27	-3.00	0.64	38.45
			H	6.78	3.27	-3.00	9.02	38.45
HSDPA B5	826.4	4132	V	7.56	3.30	-2.93	5.63	38.45
			H	6.74	3.30	-2.93	12.26	38.45
	836.6	4183	V	7.13	3.29	-2.96	3.50	38.45
			H	6.59	3.29	-2.96	10.22	38.45
	846.6	4233	V	7.16	3.27	-3.00	2.62	38.45
			H	6.74	3.27	-3.00	10.44	38.45
HSUPA B5	826.4	4132	V	7.56	3.30	-2.93	4.90	38.45
			H	6.75	3.30	-2.93	11.63	38.45
	836.6	4183	V	7.18	3.29	-2.96	3.09	38.45
			H	6.56	3.29	-2.96	9.78	38.45
	846.6	4233	V	7.10	3.27	-3.00	1.40	38.45
			H	6.79	3.27	-3.00	9.68	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 5 BW: 1.4M QPSK RB: 1,0	824.7	20407	V	11.59	3.30	-2.93	11.97	38.45
			H	14.02	3.30	-2.93	14.39	38.45
	836.5	20525	V	12.40	3.29	-2.96	12.73	38.45
			H	15.21	3.29	-2.96	15.54	38.45
	848.3	20643	V	9.75	3.27	-2.99	10.03	38.45
			H	12.30	3.27	-2.99	12.58	38.45
BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	11.40	3.31	-2.92	11.78	38.45
			H	13.79	3.31	-2.92	14.17	38.45
	836.5	20525	V	11.85	3.29	-2.96	12.18	38.45
			H	14.55	3.29	-2.96	14.88	38.45
	848.3	20643	V	9.32	3.27	-3.00	9.59	38.45
			H	11.78	3.27	-3.00	12.05	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	12.20	3.30	-2.93	12.57	38.45
			H	14.62	3.30	-2.93	15.00	38.45
	836.5	20525	V	12.58	3.29	-2.96	12.92	38.45
			H	15.27	3.29	-2.96	15.60	38.45
	848.3	20643	V	10.52	3.27	-2.99	10.80	38.45
			H	12.45	3.27	-2.99	12.73	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	12.13	3.31	-2.92	12.51	38.45
			H	14.44	3.31	-2.92	14.83	38.45
	836.5	20525	V	12.47	3.29	-2.96	12.80	38.45
			H	15.13	3.29	-2.96	15.46	38.45
	848.3	20643	V	10.27	3.27	-3.00	10.55	38.45
			H	12.62	3.27	-3.00	12.90	38.45

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 5 BW: 3M QPSK RB: 1,0	825.5	20415	V	10.65	3.30	-2.93	11.02	38.45
			H	14.33	3.30	-2.93	14.70	38.45
	836.5	20525	V	11.72	3.29	-2.95	12.06	38.45
			H	15.14	3.29	-2.95	15.48	38.45
	847.5	20635	V	8.89	3.28	-2.99	9.17	38.45
			H	11.78	3.28	-2.99	12.07	38.45
BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	10.72	3.30	-2.93	11.10	38.45
			H	14.22	3.30	-2.93	14.60	38.45
	836.5	20525	V	11.15	3.29	-2.96	11.48	38.45
			H	14.50	3.29	-2.96	14.83	38.45
	847.5	20635	V	9.32	3.27	-3.00	9.60	38.45
			H	11.59	3.27	-3.00	11.86	38.45
BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	11.27	3.30	-2.93	11.65	38.45
			H	14.96	3.30	-2.93	15.33	38.45
	836.5	20525	V	11.93	3.29	-2.95	12.26	38.45
			H	15.32	3.29	-2.96	15.65	38.45
	847.5	20635	V	9.60	3.28	-2.99	9.89	38.45
			H	12.38	3.28	-2.99	12.67	38.45
BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	11.44	3.30	-2.93	11.82	38.45
			H	14.90	3.30	-2.93	15.28	38.45
	836.5	20525	V	11.66	3.29	-2.96	11.99	38.45
			H	14.84	3.29	-2.96	15.17	38.45
	847.5	20635	V	10.11	3.27	-3.00	10.39	38.45
			H	12.49	3.27	-3.00	12.77	38.45

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 5 BW: 5M QPSK RB: 1,0	826.5	20425	V	10.24	3.30	-2.93	10.61	38.45
			H	15.03	3.30	-2.93	15.41	38.45
	836.5	20525	V	11.45	3.29	-2.95	11.79	38.45
			H	15.18	3.29	-2.95	15.52	38.45
	846.5	20625	V	9.81	3.28	-2.98	10.11	38.45
			H	12.71	3.28	-2.98	13.01	38.45
BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	10.95	3.30	-2.93	11.32	38.45
			H	14.63	3.30	-2.93	15.00	38.45
	836.5	20525	V	10.36	3.29	-2.97	10.68	38.45
			H	13.81	3.29	-2.96	14.13	38.45
	846.5	20625	V	9.83	3.27	-3.00	10.11	38.45
			H	12.66	3.27	-3.00	12.94	38.45
BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	10.92	3.30	-2.93	11.29	38.45
			H	15.53	3.30	-2.93	15.90	38.45
	836.5	20525	V	12.36	3.29	-2.95	12.71	38.45
			H	15.70	3.29	-2.95	16.04	38.45
	846.5	20625	V	10.12	3.28	-2.98	10.41	38.45
			H	12.92	3.28	-2.98	13.21	38.45
BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	11.50	3.30	-2.93	11.87	38.45
			H	15.39	3.30	-2.93	15.76	38.45
	836.5	20525	V	11.49	3.29	-2.96	11.82	38.45
			H	14.72	3.29	-2.96	15.04	38.45
	846.5	20625	V	10.88	3.27	-3.00	11.16	38.45
			H	13.52	3.27	-3.00	13.80	38.45

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 5 BW: 10M QPSK RB: 1,0	829.0	20450	V	10.96	3.30	-2.93	11.33	38.45
			H	14.87	3.30	-2.93	15.24	38.45
	836.5	20525	V	11.54	3.30	-2.94	11.89	38.45
			H	14.68	3.30	-2.94	15.03	38.45
	844.0	20600	V	10.21	3.29	-2.97	10.53	38.45
			H	13.50	3.29	-2.97	13.82	38.45
BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	11.82	3.29	-2.95	12.17	38.45
			H	14.34	3.29	-2.95	14.69	38.45
	836.5	20525	V	9.45	3.28	-2.97	9.76	38.45
			H	12.78	3.28	-2.98	13.08	38.45
	844.0	20600	V	9.64	3.27	-3.00	9.92	38.45
			H	12.43	3.27	-3.00	12.71	38.45
BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	11.62	3.30	-2.93	12.00	38.45
			H	15.44	3.30	-2.93	15.81	38.45
	836.5	20525	V	12.38	3.30	-2.94	12.73	38.45
			H	15.54	3.30	-2.94	15.89	38.45
	844.0	20600	V	10.88	3.29	-2.97	11.20	38.45
			H	14.18	3.29	-2.97	14.50	38.45
BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	12.57	3.29	-2.95	12.92	38.45
			H	15.41	3.29	-2.95	15.75	38.45
	836.5	20525	V	10.06	3.28	-2.97	10.37	38.45
			H	13.42	3.28	-2.97	13.73	38.45
	844.0	20600	V	10.64	3.27	-3.00	10.92	38.45
			H	13.50	3.27	-3.00	13.78	38.45

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 7 BW: 5M QPSK RB: 1,0	2502.5	20775	V	8.24	10.90	-5.25	13.89	33.01
			H	14.64	10.90	-5.25	20.28	33.01
	2535.0	21100	V	9.16	10.94	-5.30	14.80	33.01
			H	15.15	10.94	-5.30	20.79	33.01
	2567.5	21425	V	7.95	10.98	-5.34	13.60	33.01
			H	14.71	10.98	-5.34	20.35	33.01
BAND 7 BW: 5M QPSK RB: 1,24	2502.5	20775	V	8.84	10.90	-5.26	14.49	33.01
			H	15.04	10.90	-5.26	20.69	33.01
	2535.0	21100	V	9.04	10.95	-5.31	14.68	33.01
			H	15.02	10.95	-5.31	20.66	33.01
	2567.5	21425	V	7.31	10.99	-5.34	12.96	33.01
			H	14.32	10.99	-5.34	19.97	33.01
BAND 7 BW: 5M 16QAM RB: 1,0	2502.5	20775	V	8.32	10.90	-5.26	13.96	33.01
			H	14.57	10.90	-5.25	20.22	33.01
	2535.0	21100	V	8.90	10.94	-5.30	14.54	33.01
			H	15.37	10.94	-5.30	21.01	33.01
	2567.5	21425	V	7.79	10.98	-5.34	13.44	33.01
			H	14.69	10.98	-5.34	20.34	33.01
BAND 7 BW: 5M 16QAM RB: 1,24	2502.5	20775	V	9.09	10.90	-5.26	14.73	33.01
			H	14.95	10.90	-5.26	20.60	33.01
	2535.0	21100	V	9.13	10.95	-5.31	14.77	33.01
			H	14.95	10.95	-5.31	20.59	33.01
	2567.5	21425	V	7.21	10.99	-5.34	12.86	33.01
			H	14.40	10.99	-5.34	20.05	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 7 BW: 10M QPSK RB: 1,0	2505.0	20800	V	8.97	10.90	-5.26	14.62	33.01
			H	17.64	10.90	-5.26	23.29	33.01
	2535.0	21100	V	9.74	10.94	-5.29	15.38	33.01
			H	15.58	10.94	-5.29	21.22	33.01
	2565.0	21400	V	9.09	10.98	-5.34	14.73	33.01
			H	15.14	10.98	-5.34	20.78	33.01
BAND 7 BW: 10M QPSK RB: 1,49	2505.0	20800	V	9.59	10.91	-5.26	15.24	33.01
			H	18.02	10.91	-5.26	23.67	33.01
	2535.0	21100	V	9.04	10.95	-5.31	14.68	33.01
			H	14.89	10.95	-5.31	20.53	33.01
	2565.0	21400	V	7.21	10.99	-5.34	12.86	33.01
			H	13.45	10.99	-5.34	19.10	33.01
BAND 7 BW: 10M 16QAM RB: 1,0	2505.0	20800	V	8.82	10.90	-5.26	14.46	33.01
			H	17.45	10.90	-5.25	23.10	33.01
	2535.0	21100	V	9.57	10.94	-5.29	15.21	33.01
			H	15.08	10.94	-5.29	20.73	33.01
	2565.0	21400	V	9.76	10.98	-5.34	15.39	33.01
			H	15.50	10.98	-5.34	21.14	33.01
BAND 7 BW: 10M 16QAM RB: 1,49	2505.0	20800	V	9.17	10.91	-5.26	14.82	33.01
			H	15.84	10.91	-5.26	21.49	33.01
	2535.0	21100	V	9.18	10.95	-5.31	14.81	33.01
			H	14.31	10.95	-5.31	19.94	33.01
	2565.0	21400	V	7.35	10.99	-5.34	13.00	33.01
			H	13.60	10.99	-5.34	19.25	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 7 BW: 15M QPSK RB: 1,0	2507.5	20825	V	9.08	10.90	-5.26	14.73	33.01
			H	14.18	10.90	-5.25	19.82	33.01
	2535.0	21100	V	9.84	10.94	-5.29	15.48	33.01
			H	14.97	10.94	-5.29	20.61	33.01
	2562.5	21375	V	9.78	10.97	-5.34	15.41	33.01
			H	15.69	10.97	-5.34	21.32	33.01
BAND 7 BW: 15M QPSK RB: 1,74	2507.5	20825	V	9.88	10.92	-5.27	15.53	33.01
			H	15.14	10.92	-5.27	20.79	33.01
	2535.0	21100	V	9.06	10.95	-5.32	14.70	33.01
			H	14.15	10.95	-5.32	19.78	33.01
	2562.5	21375	V	6.86	10.99	-5.34	12.51	33.01
			H	13.01	10.99	-5.34	18.65	33.01
BAND 7 BW: 15M 16QAM RB: 1,0	2507.5	20825	V	8.96	10.90	-5.25	14.61	33.01
			H	14.01	10.90	-5.26	19.66	33.01
	2535.0	21100	V	9.58	10.94	-5.29	15.22	33.01
			H	14.78	10.93	-5.29	20.42	33.01
	2562.5	21375	V	10.08	10.97	-5.34	15.71	33.01
			H	16.77	10.97	-5.34	22.40	33.01
BAND 7 BW: 15M 16QAM RB: 1,74	2507.5	20825	V	9.74	10.92	-5.27	15.39	33.01
			H	15.04	10.92	-5.27	20.69	33.01
	2535.0	21100	V	8.83	10.95	-5.32	14.47	33.01
			H	14.01	10.95	-5.32	19.64	33.01
	2562.5	21375	V	6.94	10.99	-5.34	12.59	33.01
			H	15.71	10.99	-5.34	21.36	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 7 BW: 20M QPSK RB: 1,0	2510.0	20850	V	8.45	10.90	-5.26	14.10	33.01
			H	13.95	10.90	-5.26	19.60	33.01
	2535.0	21100	V	5.56	10.93	-5.29	11.21	33.01
			H	14.81	10.93	-5.29	20.46	33.01
	2560.0	21350	V	9.13	10.96	-5.33	14.76	33.01
			H	15.08	10.96	-5.33	20.71	33.01
BAND 7 BW: 20M QPSK RB: 1,99	2510.0	20850	V	5.67	10.92	-5.27	11.32	33.01
			H	15.12	10.92	-5.27	20.77	33.01
	2535.0	21100	V	4.83	10.95	-5.32	10.46	33.01
			H	13.89	10.95	-5.32	19.53	33.01
	2560.0	21350	V	6.31	10.99	-5.34	11.96	33.01
			H	12.85	10.99	-5.34	18.49	33.01
BAND 7 BW: 20M 16QAM RB: 1,0	2510.0	20850	V	5.71	10.90	-5.25	11.35	33.01
			H	13.87	10.90	-5.26	19.52	33.01
	2535.0	21100	V	5.51	10.93	-5.29	11.16	33.01
			H	14.66	10.93	-5.29	20.30	33.01
	2560.0	21350	V	9.21	10.96	-5.33	14.84	33.01
			H	14.93	10.96	-5.33	20.56	33.01
BAND 7 BW: 20M 16QAM RB: 1,99	2510.0	20850	V	5.18	10.92	-5.27	10.83	33.01
			H	14.98	10.92	-5.27	20.63	33.01
	2535.0	21100	V	4.76	10.95	-5.32	10.39	33.01
			H	13.48	10.96	-5.32	19.12	33.01
	2560.0	21350	V	6.53	10.99	-5.34	12.18	33.01
			H	13.01	10.99	-5.34	18.66	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 38 BW: 5M QPSK RB: 1,0	2572.5	37775	V	9.15	10.99	-5.34	14.81	33.01
			H	18.44	10.99	-5.34	24.10	33.01
	2595.0	38000	V	10.70	11.02	-5.34	16.37	33.01
			H	15.83	11.02	-5.34	21.51	33.01
	2617.5	38225	V	9.19	11.05	-5.37	14.87	33.01
			H	14.14	11.05	-5.37	19.82	33.01
BAND 38 BW: 5M QPSK RB: 1,24	2572.5	37775	V	10.09	10.99	-5.34	15.74	33.01
			H	14.41	10.99	-5.34	20.07	33.01
	2595.0	38000	V	10.53	11.02	-5.35	16.21	33.01
			H	15.42	11.02	-5.35	21.09	33.01
	2617.5	38225	V	9.90	11.05	-5.37	15.59	33.01
			H	14.07	11.05	-5.37	19.75	33.01
BAND 38 BW: 5M 16QAM RB: 1,0	2572.5	37775	V	8.59	10.99	-5.34	14.24	33.01
			H	13.48	10.99	-5.34	19.14	33.01
	2595.0	38000	V	10.72	11.02	-5.34	16.39	33.01
			H	15.37	11.02	-5.34	21.05	33.01
	2617.5	38225	V	8.79	11.05	-5.37	14.48	33.01
			H	13.61	11.05	-5.37	19.29	33.01
BAND 38 BW: 5M 16QAM RB: 1,24	2572.5	37775	V	9.63	10.99	-5.34	15.29	33.01
			H	14.31	10.99	-5.34	19.97	33.01
	2595.0	38000	V	10.44	11.02	-5.35	16.11	33.01
			H	15.19	11.02	-5.35	20.87	33.01
	2617.5	38225	V	9.20	11.05	-5.37	14.88	33.01
			H	13.74	11.05	-5.37	19.42	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 38 BW: 10M QPSK RB: 1,0	2575.0	37800	V	9.30	10.99	-5.34	14.96	33.01
			H	13.47	10.99	-5.34	19.12	33.01
	2595.0	38000	V	10.60	11.02	-5.34	16.27	33.01
			H	15.22	11.02	-5.34	20.90	33.01
	2615.0	38200	V	9.35	11.04	-5.36	15.03	33.01
			H	14.26	11.04	-5.36	19.94	33.01
BAND 38 BW: 10M QPSK RB: 1,49	2575.0	37800	V	10.83	11.00	-5.34	16.49	33.01
			H	15.31	11.00	-5.34	20.98	33.01
	2595.0	38000	V	10.54	11.03	-5.35	16.22	33.01
			H	15.02	11.03	-5.35	20.70	33.01
	2615.0	38200	V	9.65	11.05	-5.37	15.33	33.01
			H	14.19	11.05	-5.37	19.87	33.01
BAND 38 BW: 10M 16QAM RB: 1,0	2575.0	37800	V	8.94	10.99	-5.34	14.59	33.01
			H	13.52	10.99	-5.34	19.18	33.01
	2595.0	38000	V	10.59	11.02	-5.34	16.27	33.01
			H	15.19	11.02	-5.34	20.87	33.01
	2615.0	38200	V	8.65	11.04	-5.36	14.33	33.01
			H	13.40	11.04	-5.36	19.08	33.01
BAND 38 BW: 10M 16QAM RB: 1,49	2575.0	37800	V	10.22	11.00	-5.34	15.89	33.01
			H	14.81	11.00	-5.34	20.47	33.01
	2595.0	38000	V	10.24	11.03	-5.35	15.91	33.01
			H	14.78	11.03	-5.35	20.46	33.01
	2615.0	38200	V	9.10	11.05	-5.37	14.78	33.01
			H	13.62	11.05	-5.37	19.30	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 38 BW: 15M QPSK RB: 1,0	2577.5	37825	V	8.73	10.99	-5.34	14.39	33.01
			H	13.22	10.99	-5.34	18.87	33.01
	2595.0	38000	V	10.50	11.02	-5.34	16.18	33.01
			H	14.98	11.02	-5.34	20.66	33.01
	2612.5	38175	V	9.21	11.04	-5.36	14.89	33.01
			H	13.73	11.04	-5.36	19.41	33.01
BAND 38 BW: 15M QPSK RB: 1,74	2577.5	37825	V	10.78	11.01	-5.34	16.45	33.01
			H	15.12	11.01	-5.34	20.79	33.01
	2595.0	38000	V	10.11	11.03	-5.35	15.79	33.01
			H	14.29	11.03	-5.35	19.97	33.01
	2612.5	38175	V	9.10	11.05	-5.37	14.78	33.01
			H	13.35	11.05	-5.37	19.04	33.01
BAND 38 BW: 15M 16QAM RB: 1,0	2577.5	37825	V	8.78	10.99	-5.34	14.43	33.01
			H	13.03	10.99	-5.34	18.69	33.01
	2595.0	38000	V	10.25	11.02	-5.34	15.92	33.01
			H	14.33	11.02	-5.34	20.01	33.01
	2612.5	38175	V	9.06	11.04	-5.36	14.74	33.01
			H	13.60	11.04	-5.36	19.28	33.01
BAND 38 BW: 15M 16QAM RB: 1,74	2577.5	37825	V	10.46	11.01	-5.34	16.12	33.01
			H	14.68	11.01	-5.34	20.35	33.01
	2595.0	38000	V	9.96	11.03	-5.35	15.64	33.01
			H	14.34	11.03	-5.35	20.02	33.01
	2612.5	38175	V	9.00	11.05	-5.37	14.68	33.01
			H	13.28	11.05	-5.37	18.96	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 38 BW: 20M QPSK RB: 1,0	2580	37850	V	8.93	10.99	-5.34	14.59	33.01
			H	13.24	10.99	-5.34	18.90	33.01
	2595	38000	V	10.80	11.01	-5.34	16.47	33.01
			H	15.13	11.01	-5.34	20.80	33.01
	2610	38150	V	10.18	11.03	-5.35	15.86	33.01
			H	14.60	11.03	-5.35	20.28	33.01
BAND 38 BW: 20M QPSK RB: 1,99	2580	37850	V	10.87	11.01	-5.34	16.54	33.01
			H	15.10	11.01	-5.34	20.77	33.01
	2595	38000	V	9.84	11.03	-5.35	15.52	33.01
			H	14.22	11.03	-5.35	19.90	33.01
	2610	38150	V	9.15	11.05	-5.37	14.83	33.01
			H	13.43	11.05	-5.37	19.11	33.01
BAND 38 BW: 20M 16QAM RB: 1,0	2580	37850	V	8.95	10.99	-5.34	14.60	33.01
			H	13.18	10.99	-5.34	18.83	33.01
	2595	38000	V	10.29	11.01	-5.34	15.96	33.01
			H	14.93	11.01	-5.34	20.60	33.01
	2610	38150	V	10.22	11.03	-5.35	15.90	33.01
			H	14.50	11.03	-5.35	20.18	33.01
BAND 38 BW: 20M 16QAM RB: 1,99	2580	37850	V	10.60	11.01	-5.34	16.27	33.01
			H	14.88	11.01	-5.34	20.56	33.01
	2595	38000	V	9.67	11.03	-5.35	15.35	33.01
			H	14.06	11.03	-5.35	19.74	33.01
	2610	38150	V	9.03	11.05	-5.37	14.71	33.01
			H	13.26	11.05	-5.37	18.94	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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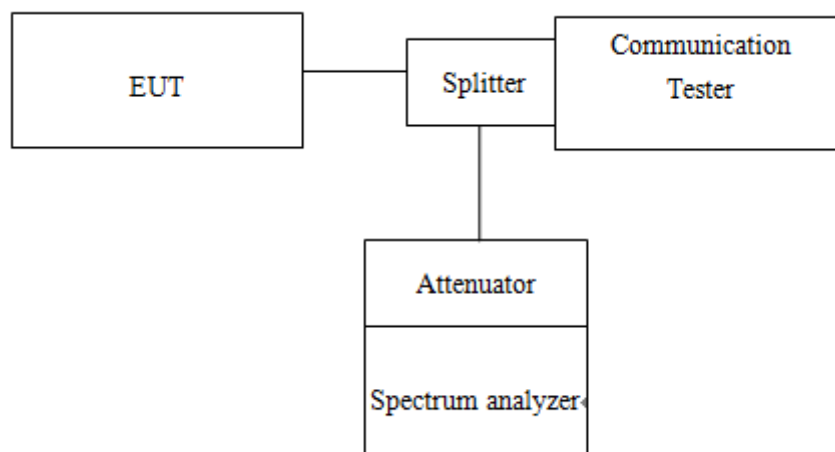
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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. 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.

8.2. Test Set-up



8.3. 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% ~ 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% ~ 5%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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8.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HU-BER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2017	02/10/2018
Radio Communication Analyser	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

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8.5. Measurement Result

Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		GSM 850	GPRS 850	EDGE 850	GSM 850	GPRS 850	EDGE 850
824.2	128	0.24348	0.24318	0.24626	0.3222	0.3205	0.3132
836.6	190	0.24486	0.24155	0.24204	0.3522	0.3160	0.3113
848.8	251	0.24270	0.24415	0.24087	0.3193	0.3164	0.3153

Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		GSM 1900	GPRS 1900	EDGE 1900	GSM 1900	GPRS 1900	EDGE 1900
1850.2	512	0.24376	0.24678	0.24740	0.3210	0.3180	0.3031
1880.0	661	0.24470	0.24521	0.24627	0.3203	0.3186	0.3229
1909.8	810	0.24350	0.24491	0.24918	0.3180	0.3191	0.3215

Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.1591	4.1654	4.1478	0.4718	0.4721	0.4736
1880.00	9400	4.1544	4.1548	4.1513	0.4716	0.4723	0.4717
1909.80	9538	4.1461	4.1560	4.1568	0.4713	0.4743	0.4709

Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		WCDMA V	HSDPA V	HSUPA V	WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.1349	4.1410	4.1338	0.4692	0.4714	0.4705
836.60	4183	4.1510	4.1517	4.1464	0.4701	0.4690	0.4713
846.60	4233	4.1493	4.1396	4.1510	0.4699	0.4712	0.4709

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LTE BAND 5 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
824.7	20407	1.0977	1.1014	1.297	1.291
836.5	20525	1.0982	1.0999	1.294	1.300
848.3	20643	1.0979	1.0991	1.296	1.293

LTE BAND 5 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
825.5	20415	2.6985	2.7025	2.982	2.984
836.5	20525	2.7043	2.7056	2.978	2.991
847.5	20635	2.7052	2.7079	2.991	2.998

LTE BAND 5 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
826.5	20425	4.5075	4.5124	5.037	4.999
836.5	20525	4.5188	4.5139	5.068	5.043
846.5	20625	4.5165	4.5095	5.058	5.008

LTE BAND 5 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
829.0	20450	9.0012	8.9472	9.906	9.816
836.5	20525	9.0312	8.9758	9.938	9.830
844.0	20600	8.9847	8.9481	9.903	9.854

LTE BAND 7 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2502.5	20775	4.5095	4.5145	5.047	5.057
2535.0	21100	4.5165	4.5143	5.071	5.038
2567.5	21425	4.5174	4.5099	5.067	5.042

LTE BAND 7 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2505.0	20800	9.0000	8.9707	9.890	9.807
2535.0	21100	9.0040	8.9671	9.964	9.897
2565.0	21400	8.9959	8.9498	9.953	9.885

LTE BAND 7 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2507.5	20825	13.479	13.488	14.88	14.93
2535.0	21100	13.503	13.471	14.74	14.76
2562.5	21375	13.475	13.467	14.63	14.63

LTE BAND 7 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2510.0	20850	17.950	17.989	19.42	19.53
2535.0	21100	17.944	17.966	19.52	19.49
2560.0	21350	17.911	17.935	19.51	19.56

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LTE BAND 38 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2752.5	37775	4.5266	4.5134	5.360	5.056
2595.0	38000	4.5185	4.5076	5.309	4.989
2617.5	38225	4.5188	4.5158	5.458	5.011

LTE BAND 38 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2575.0	37800	8.9871	8.9594	9.895	9.769
2595.0	38000	8.9554	8.9541	9.734	9.764
2615.0	38200	8.9604	8.9686	9.758	9.873

LTE BAND 38 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2577.5	37825	13.487	13.500	15.57	14.98
2595.0	38000	13.460	13.505	15.65	15.23
2612.5	38175	13.473	13.489	15.70	14.95

LTE BAND 38 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2580.0	37850	17.940	17.947	20.18	19.64
2595.0	38000	17.903	17.920	20.56	19.79
2610.0	38150	17.895	17.943	19.88	19.68

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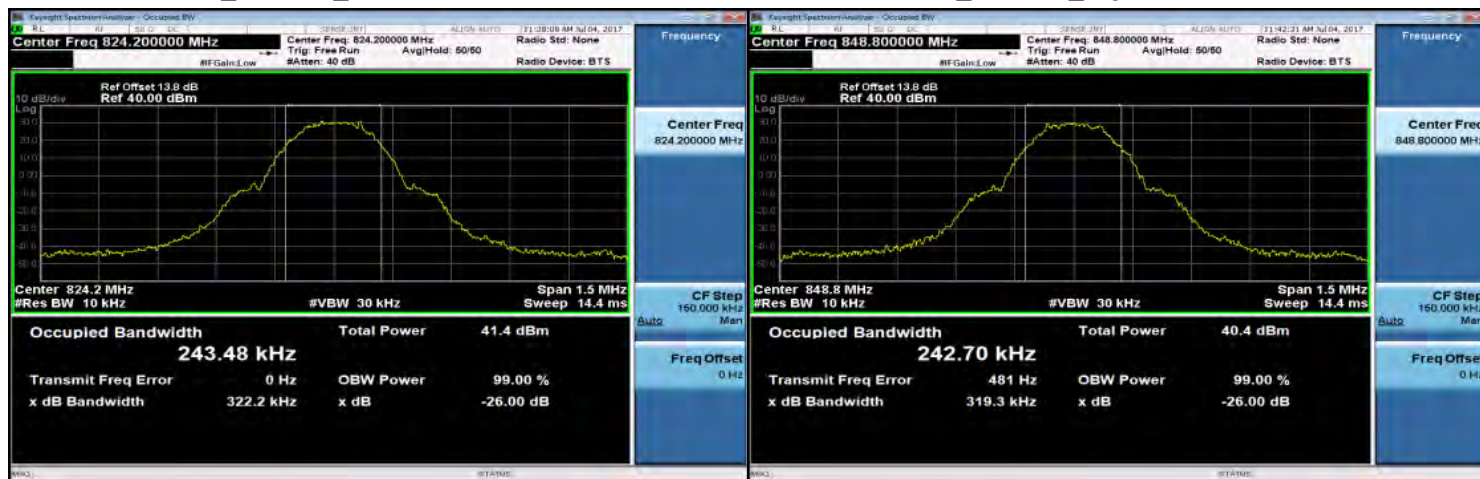
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99% & 26dB Bandwidth Test Data (Detector Peak)

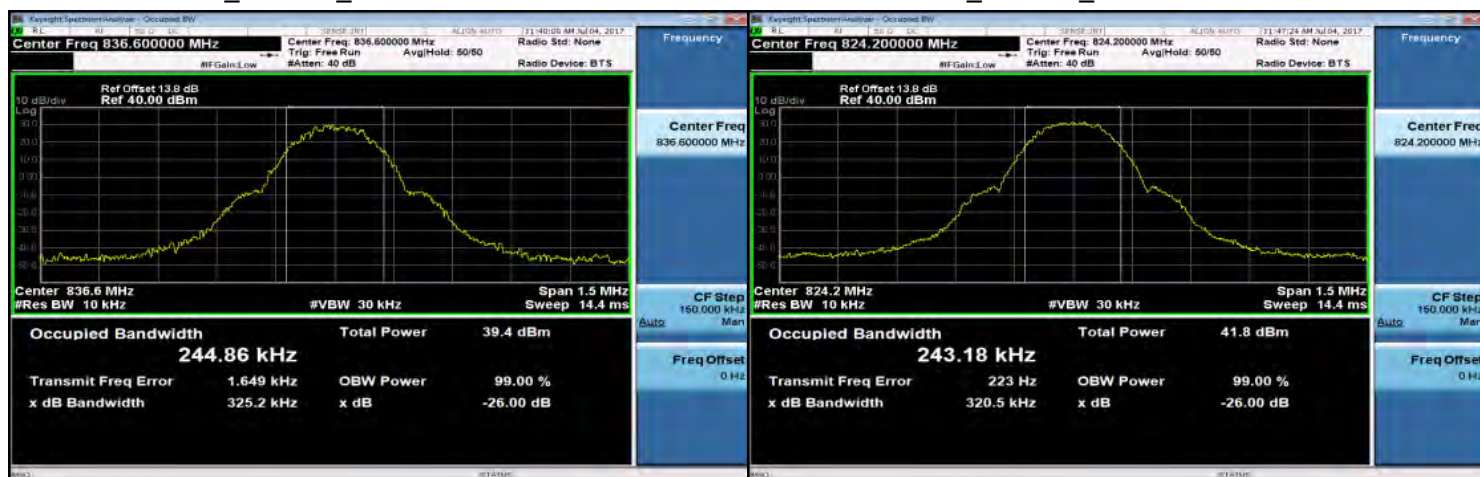
GSM_850MHz_LowCH128-824.2

GSM_850MHz_HighCH251-848.8



GSM_850MHz_MidCH190-836.6

GPRS_850MHz_LowCH128-824.2



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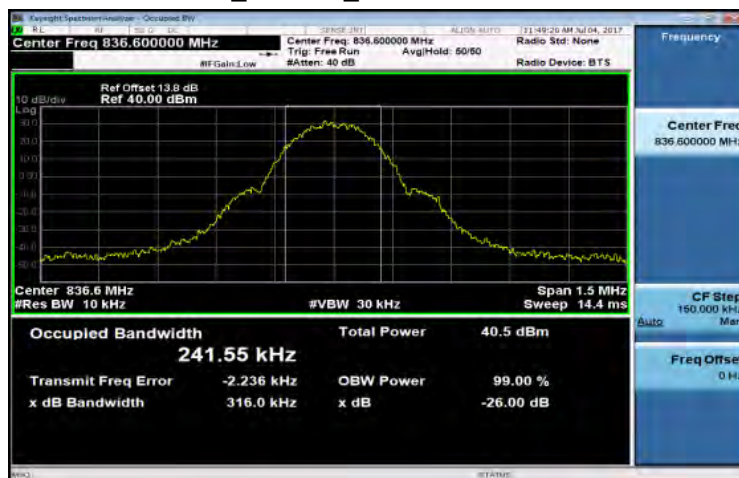
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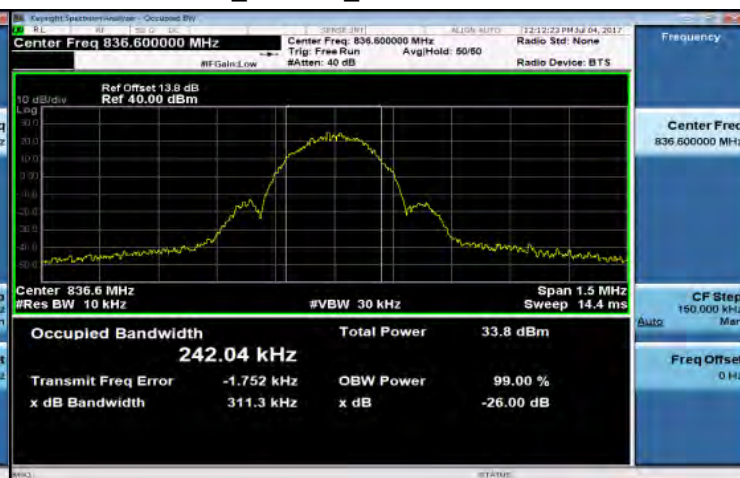
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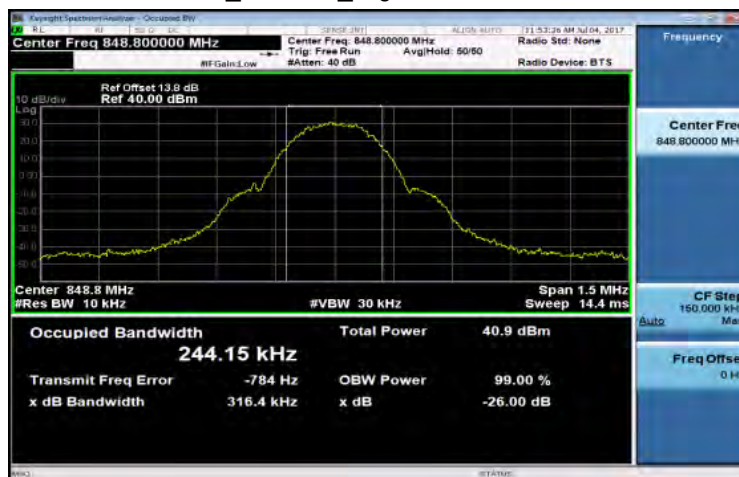
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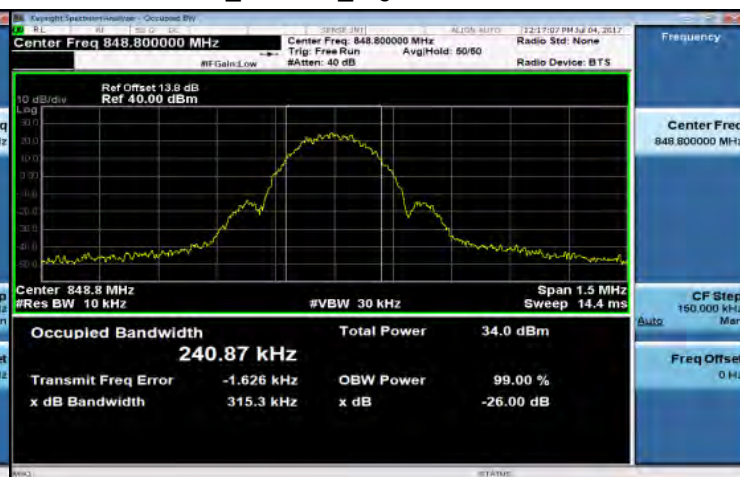
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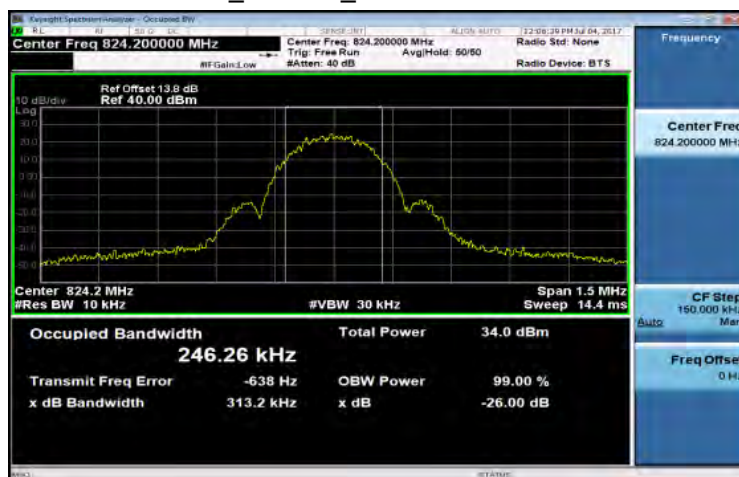
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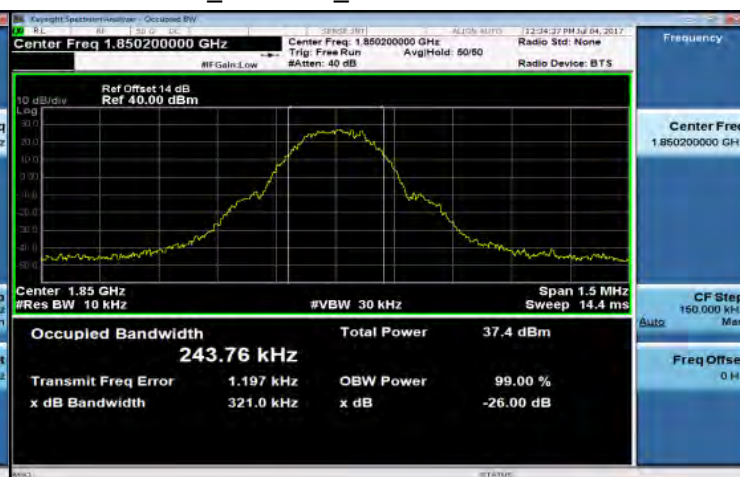
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EDGE_850MHz_LowCH128-824.2



GSM_1900MHz_LowCH512-1850.2

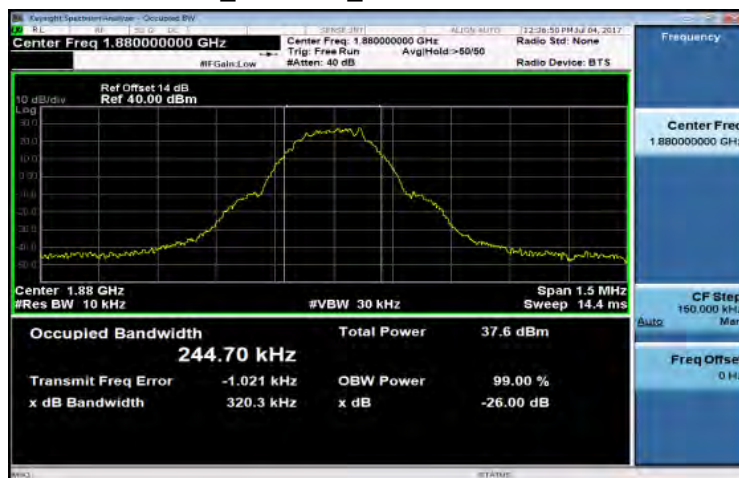


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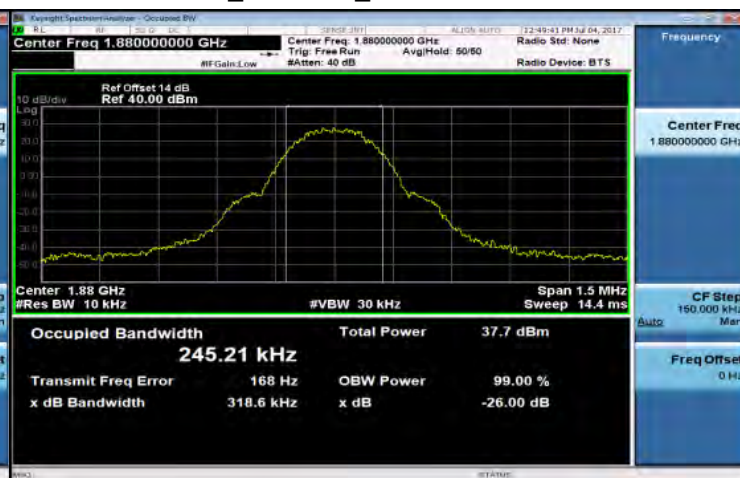
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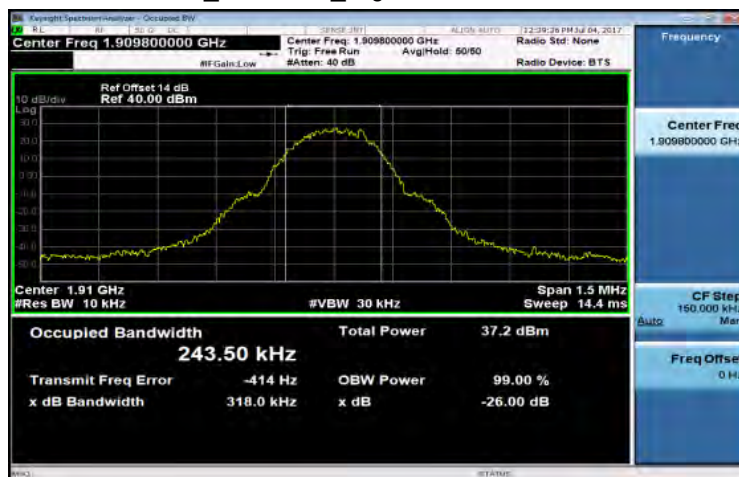
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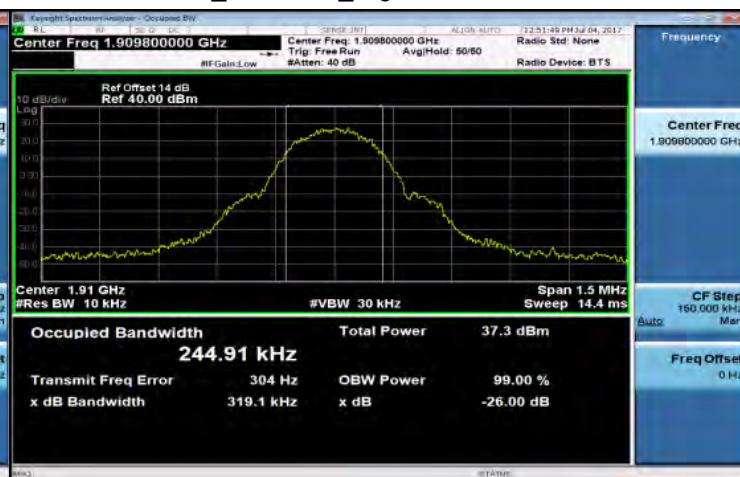
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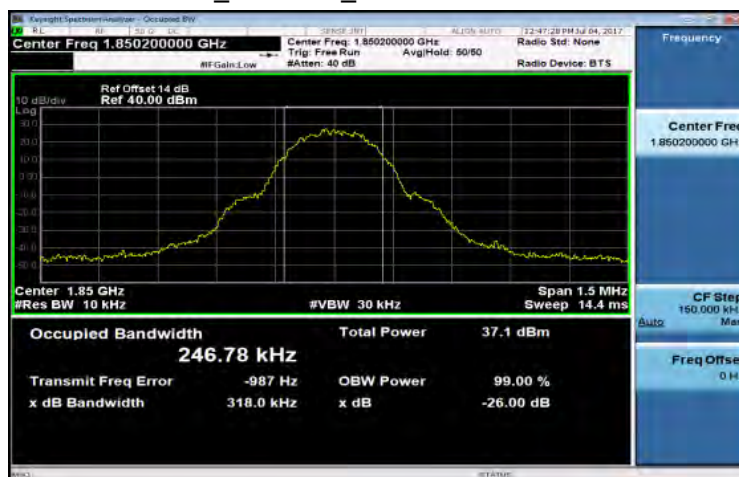
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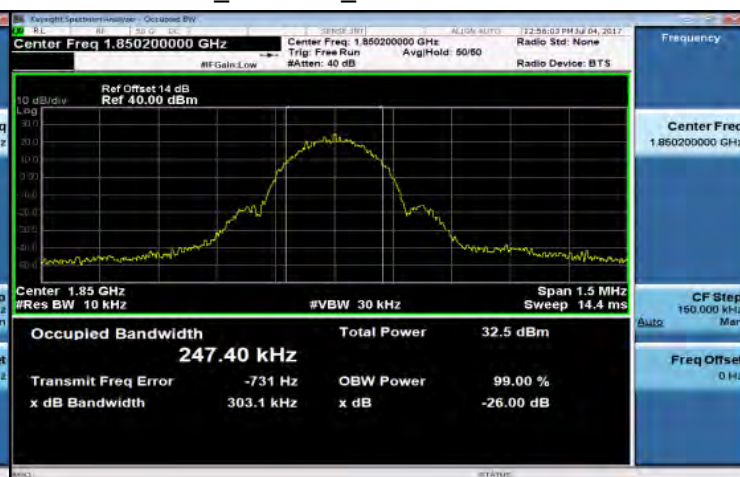
GP RS_1900MHz_HighCH810-1909.8



GP RS_1900MHz_LowCH512-1850.2



EDGE_1900MHz_LowCH512-1850.2



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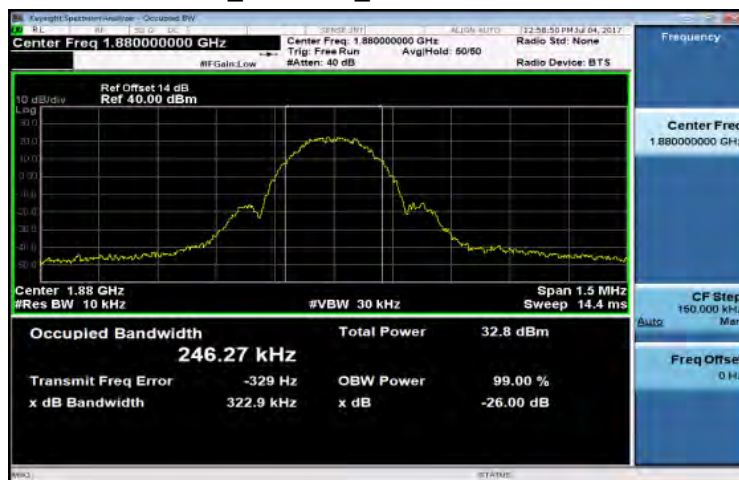
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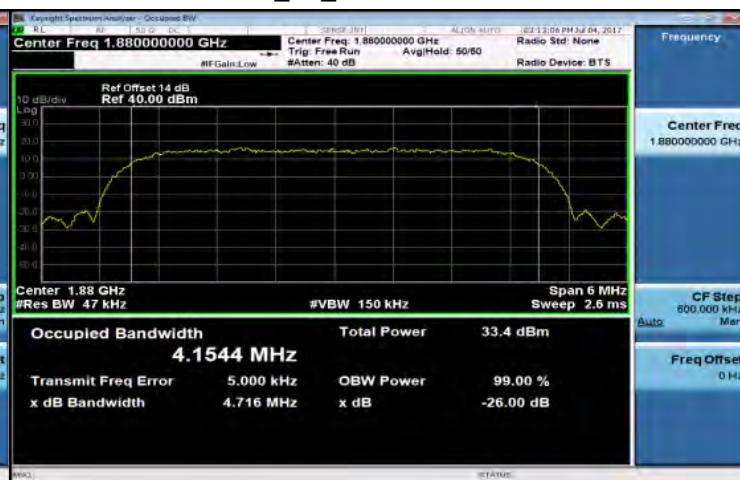
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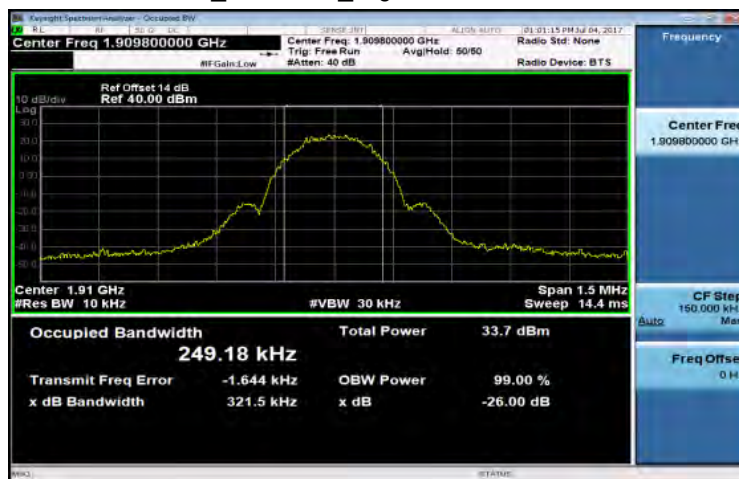
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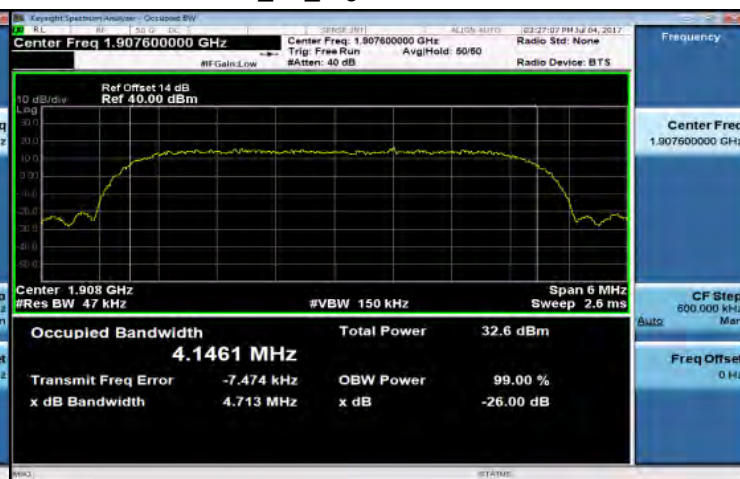
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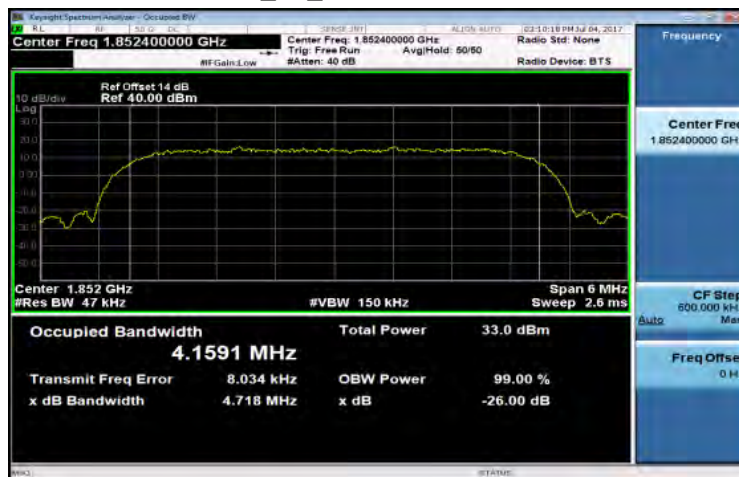
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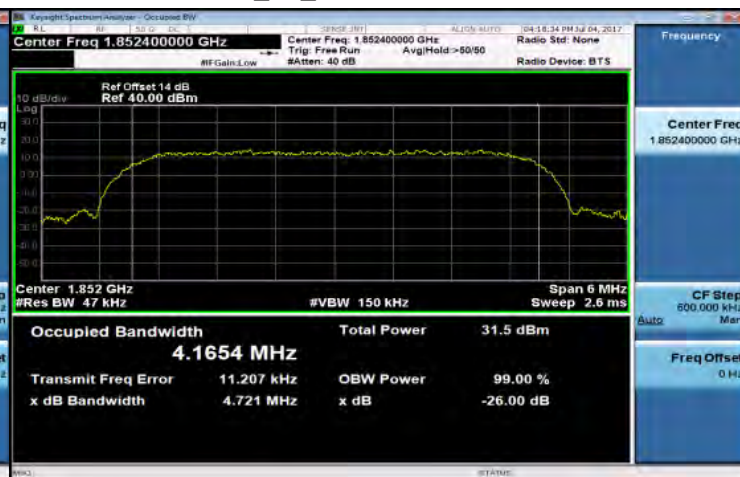
WCDMA_B2_HighCH9538-1907.6



WCDMA_B2_LowCH9262-1852.4



HSDPA_B2_LowCH9262-1852.4



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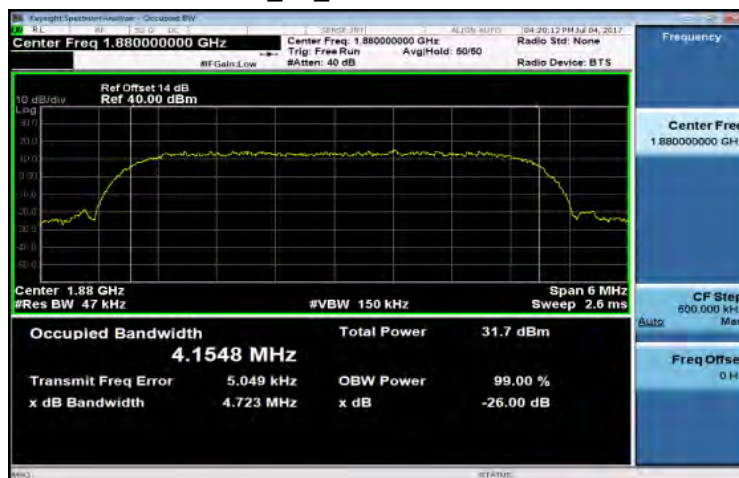
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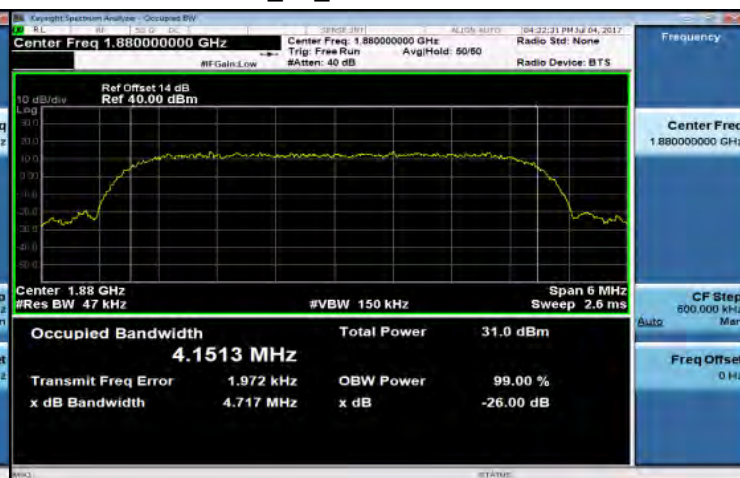
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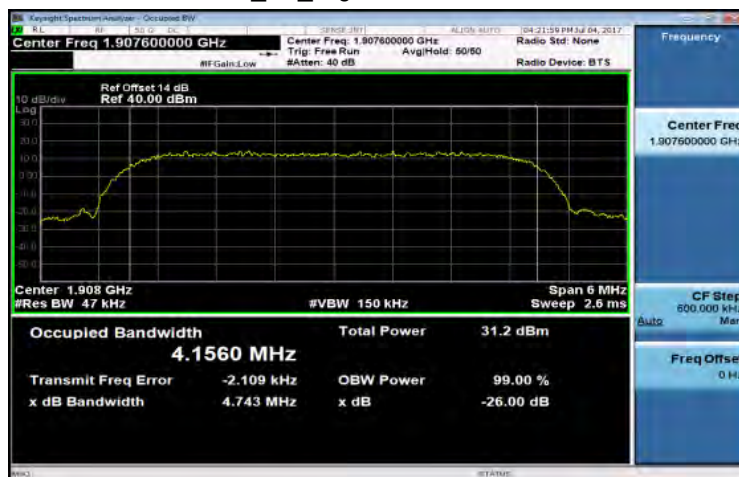
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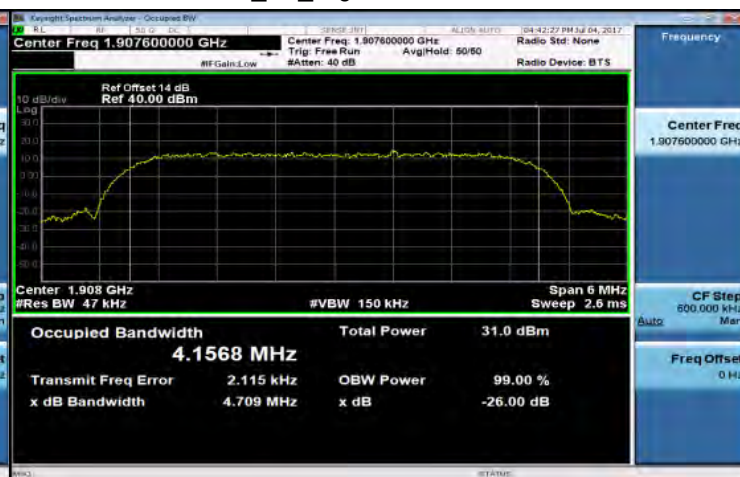
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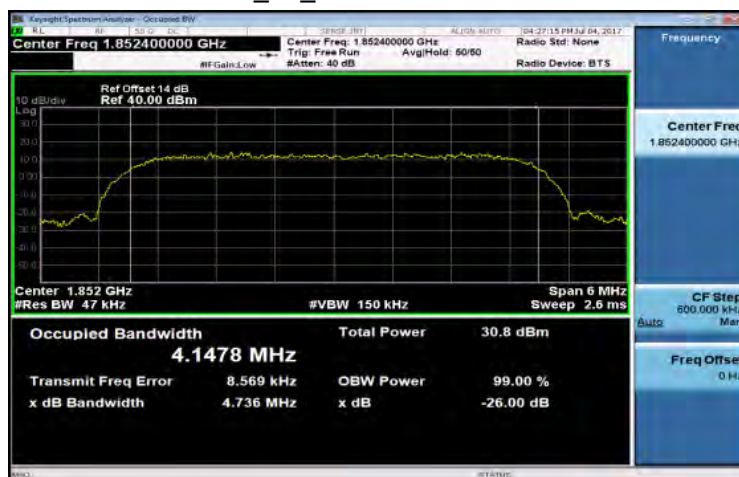
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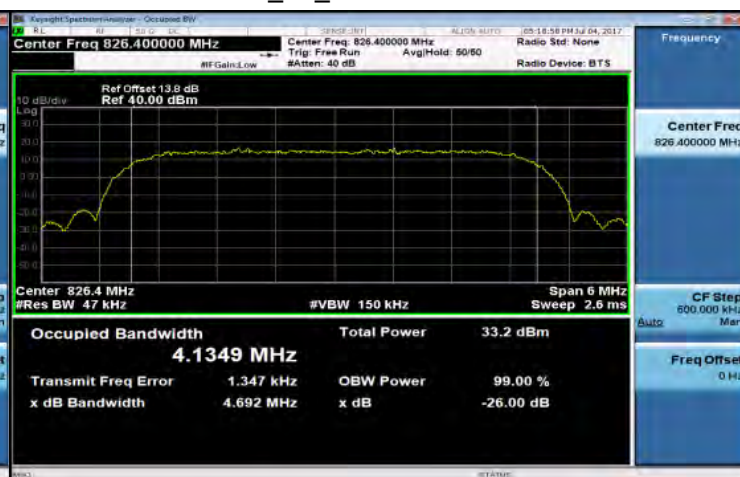
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HSUPA_B2_LowCH9262-1852.4



WCDMA_B5_LowCH4132-826.4

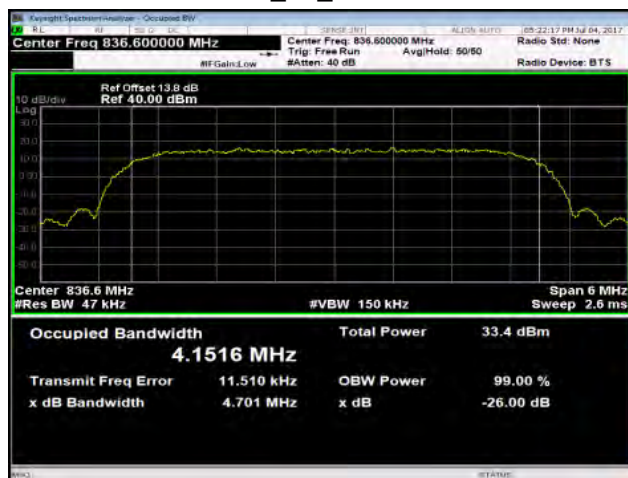


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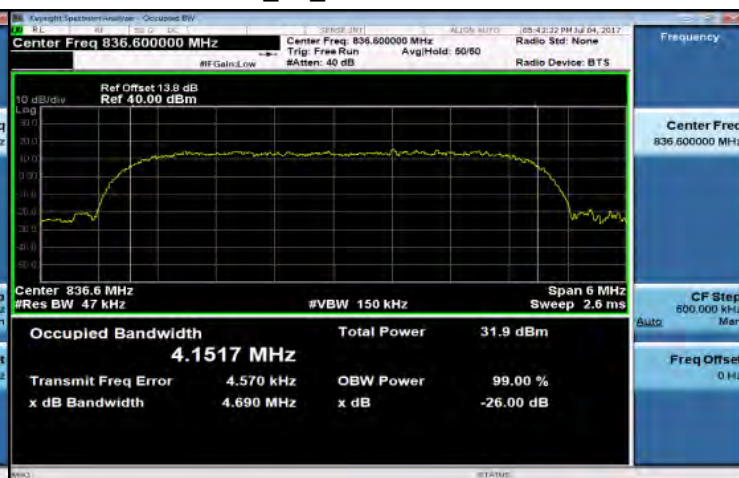
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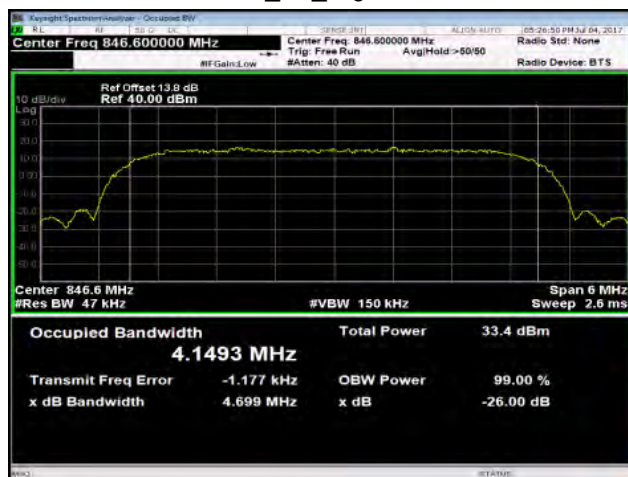
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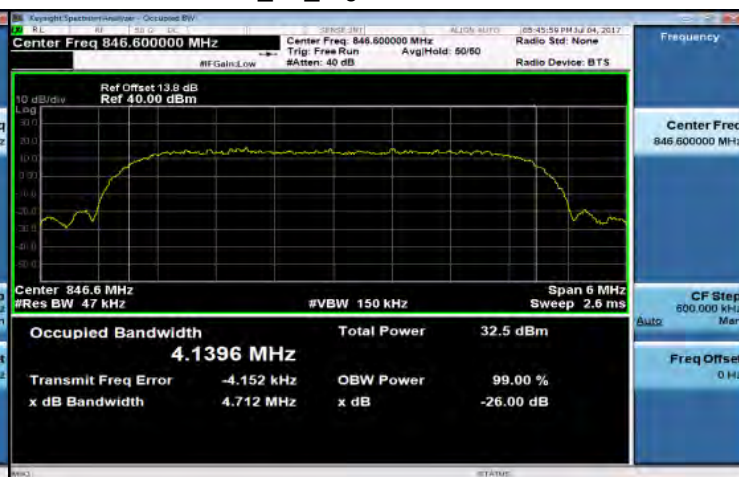
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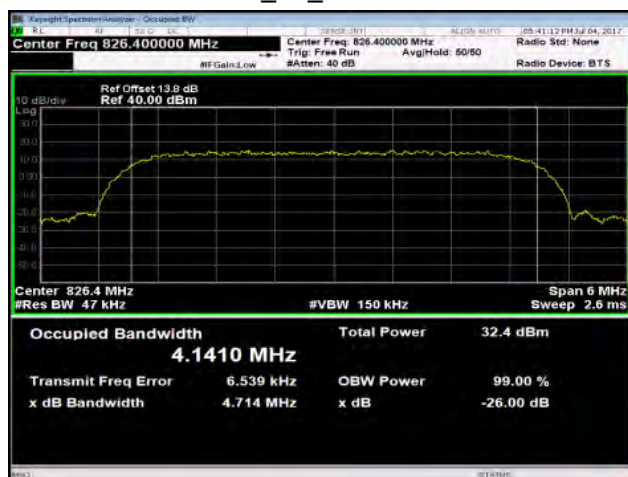
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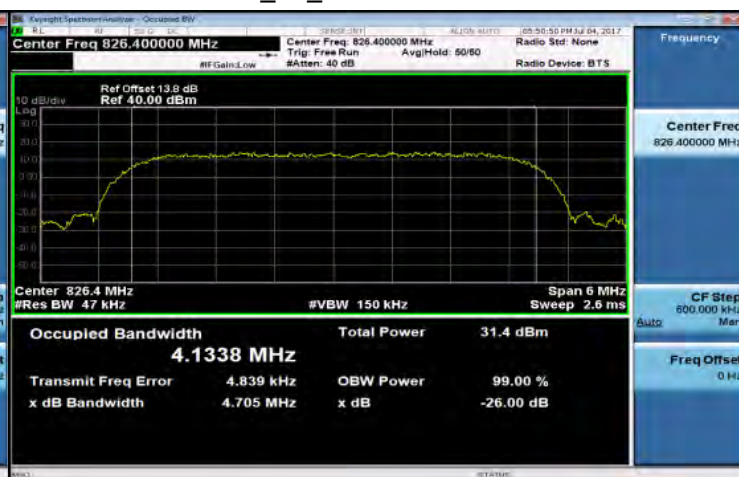
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HSUPA_B5_LowCH4132-826.4

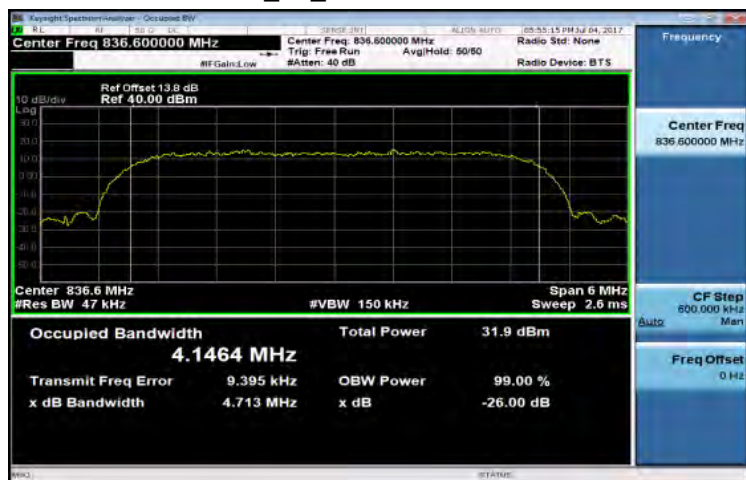


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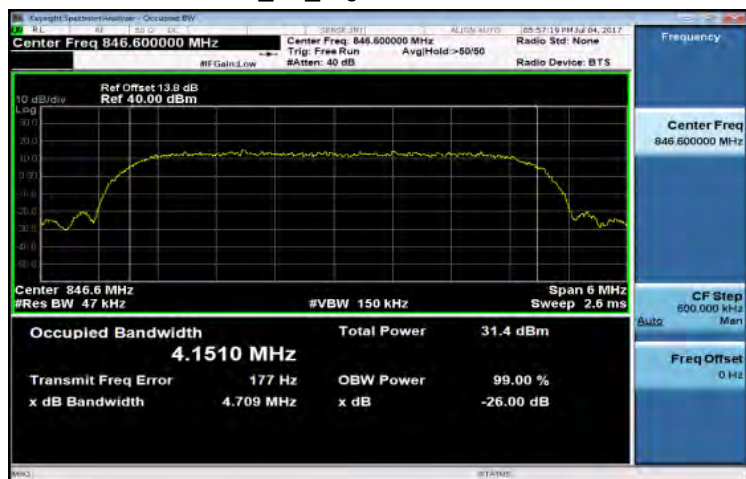
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HSUPA_B5_MidCH4183-836.6



HSUPA_B5_HighCH4233-846.6



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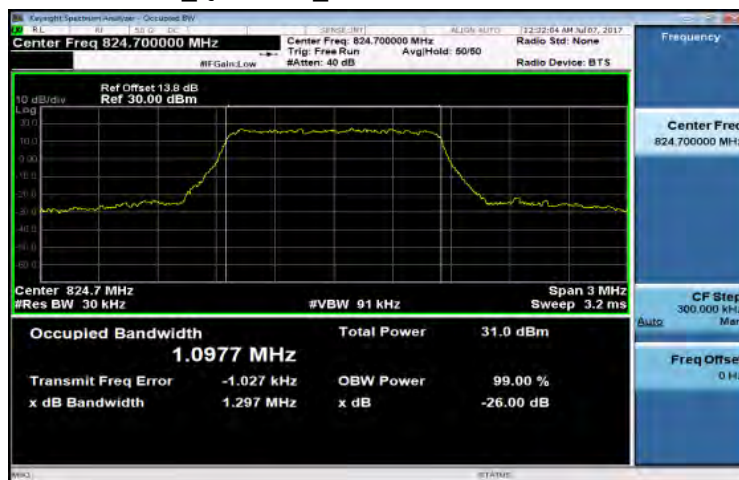
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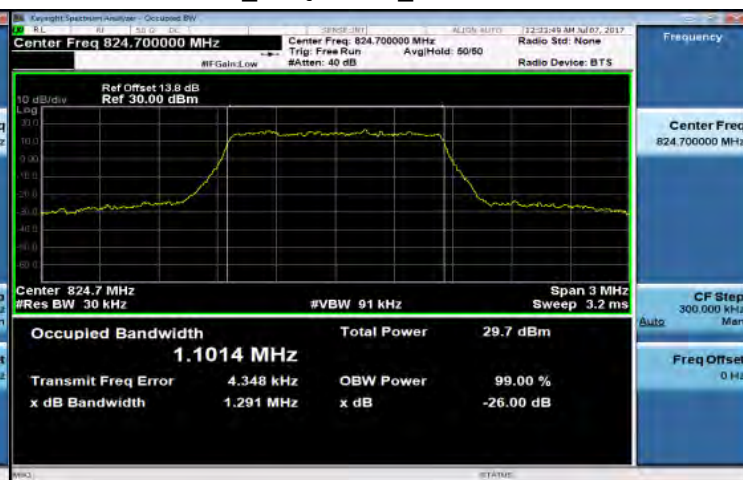
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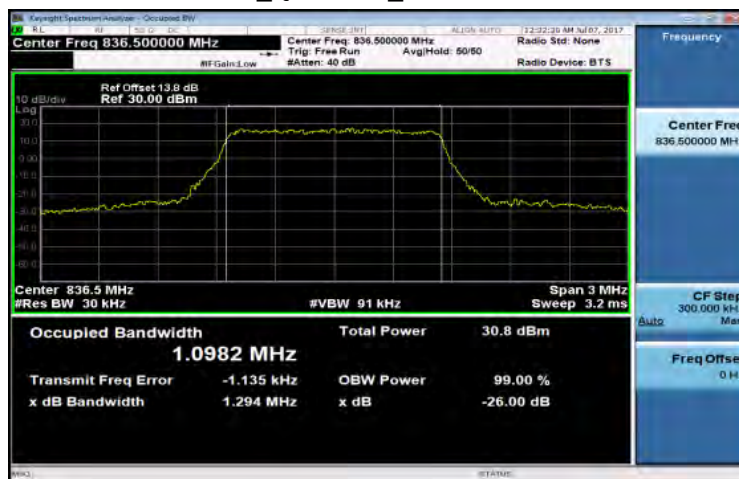
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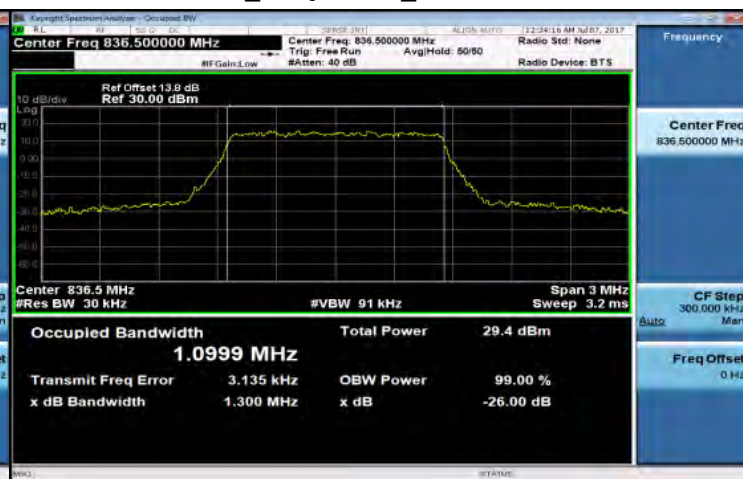
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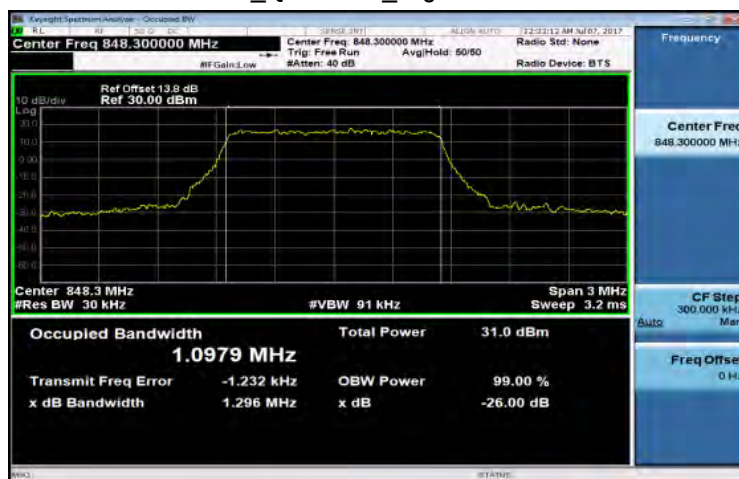
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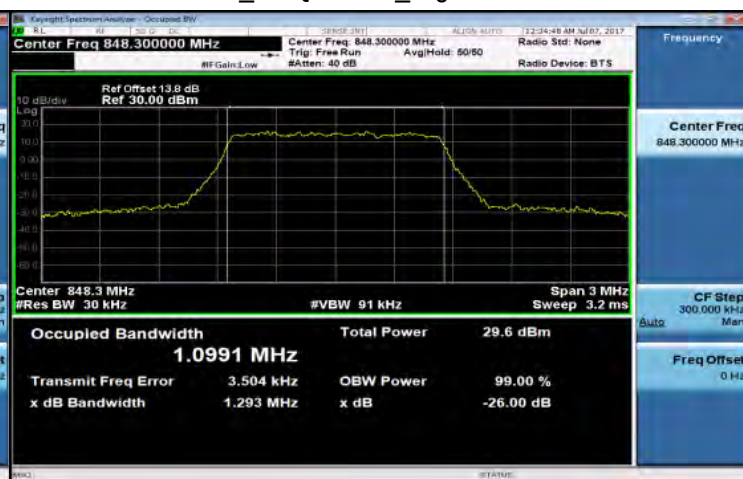
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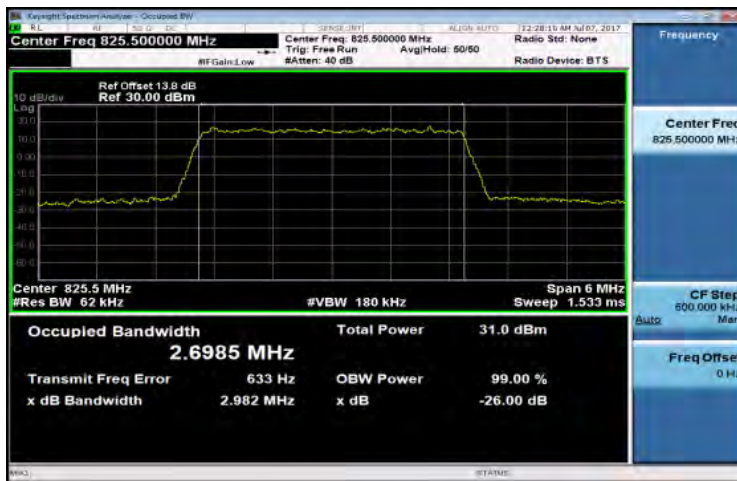


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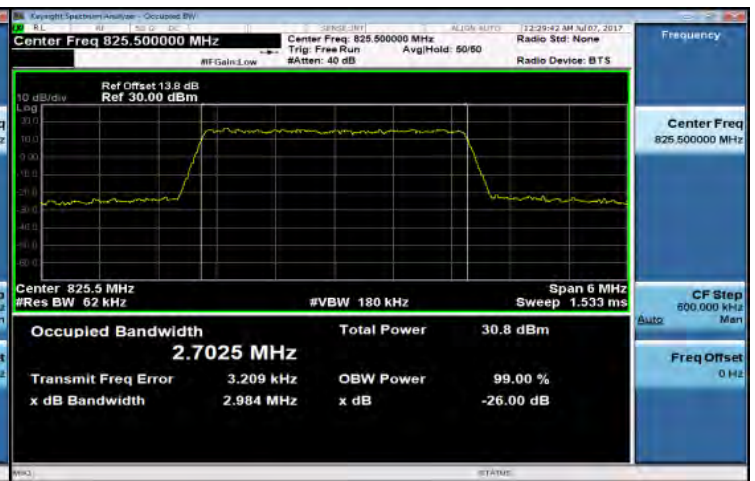
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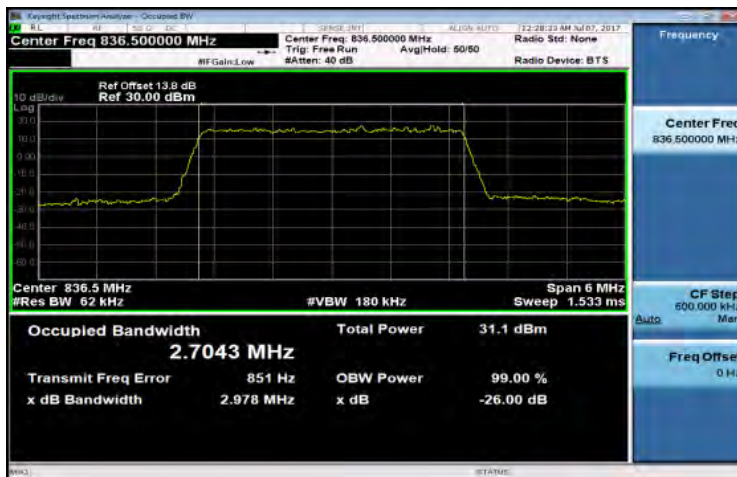
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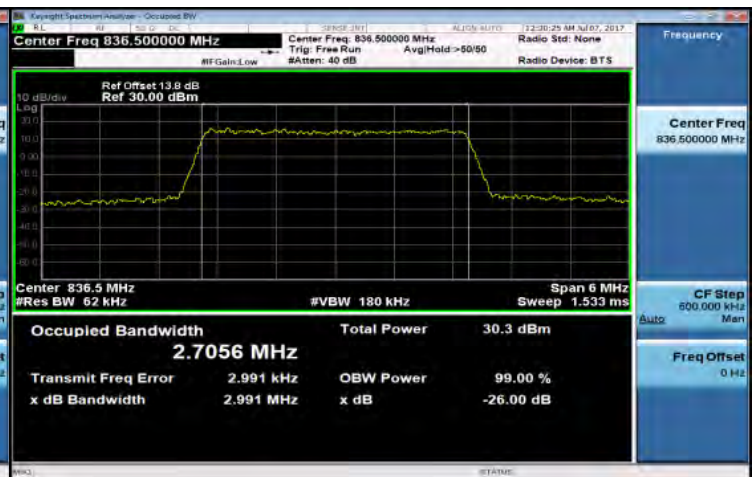
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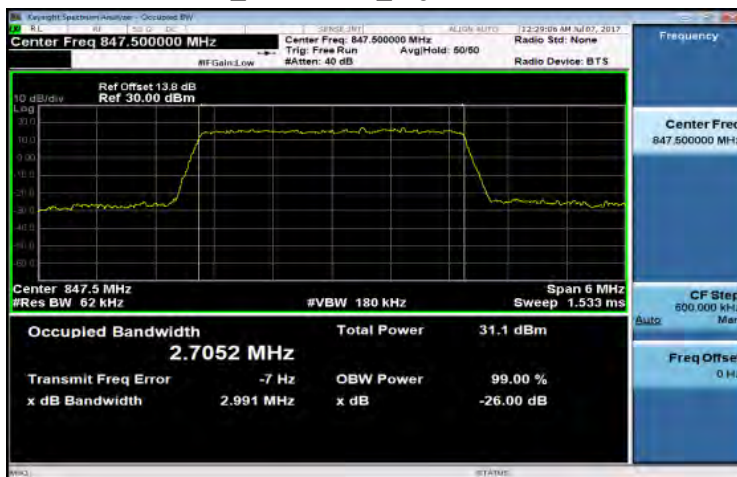
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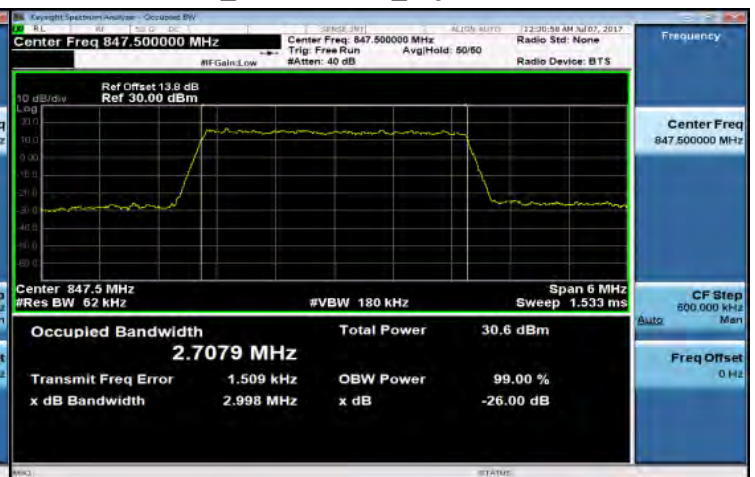
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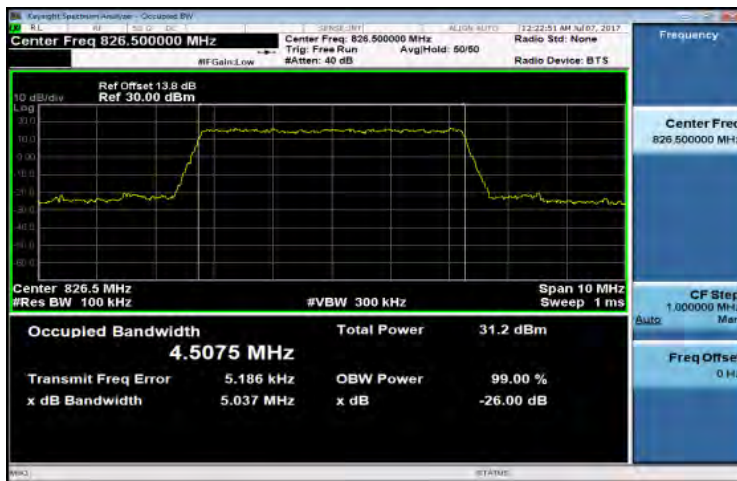


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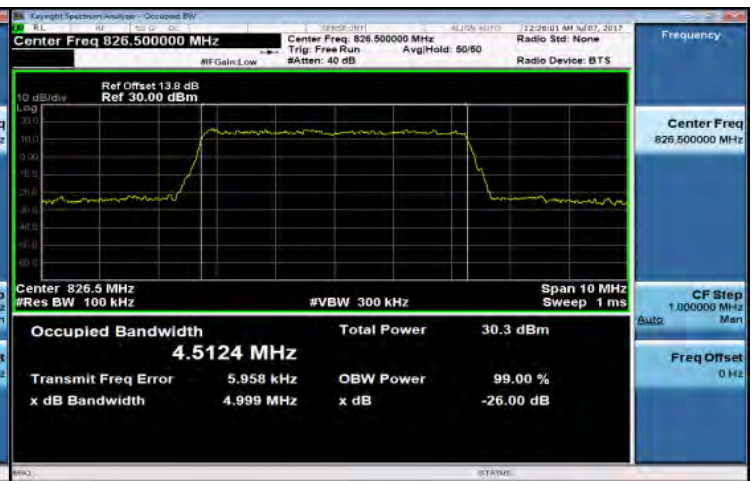
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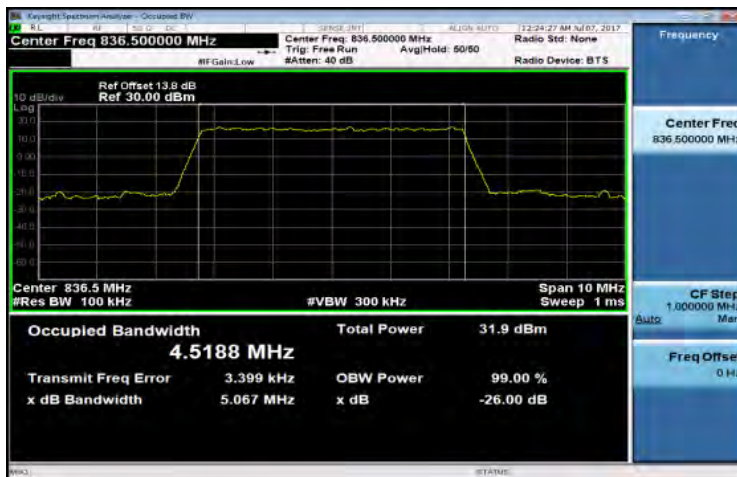
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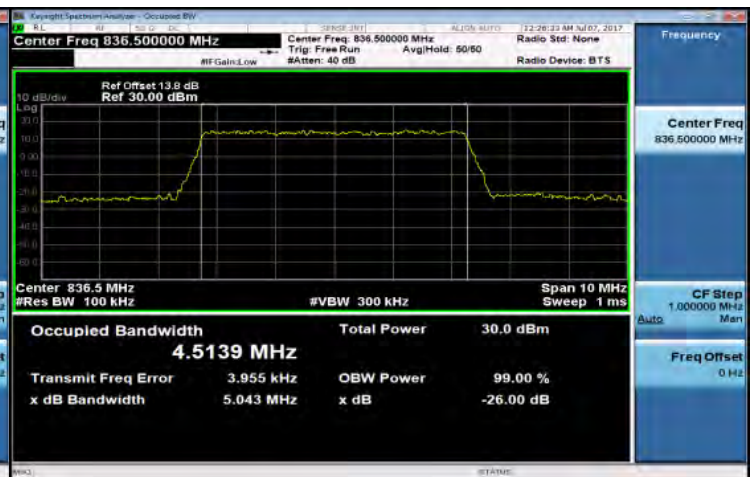
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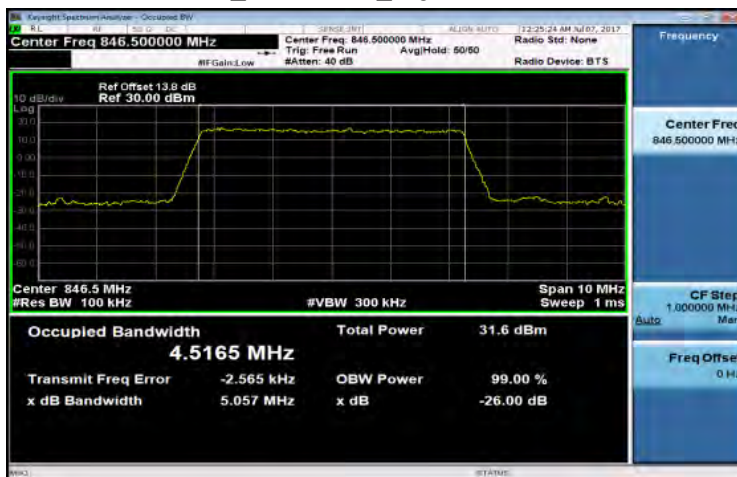
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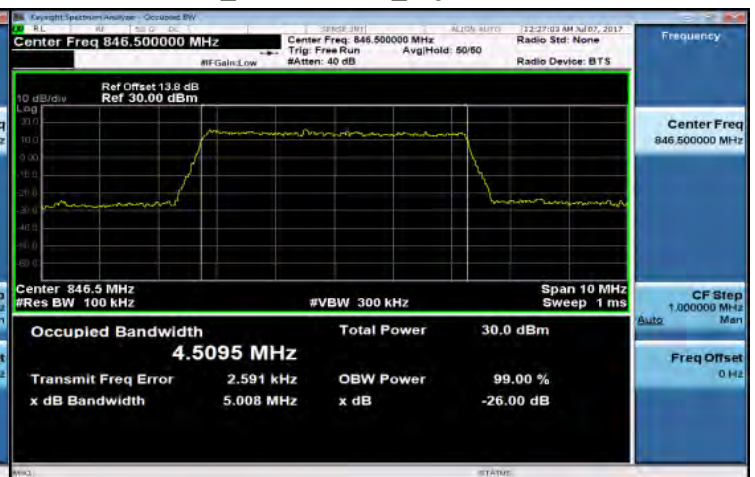
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Band5 5MHz_QPSK 25 0_HighCH20625-846.5



Band5 5MHz_16-QAM 25 0_HighCH20625-846.5



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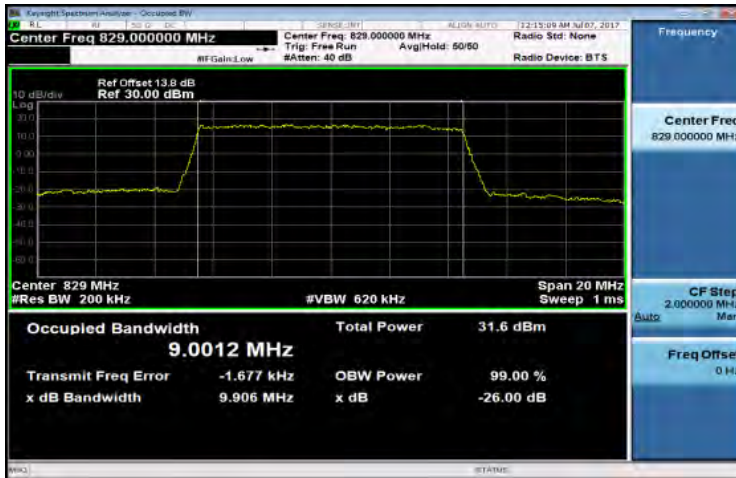
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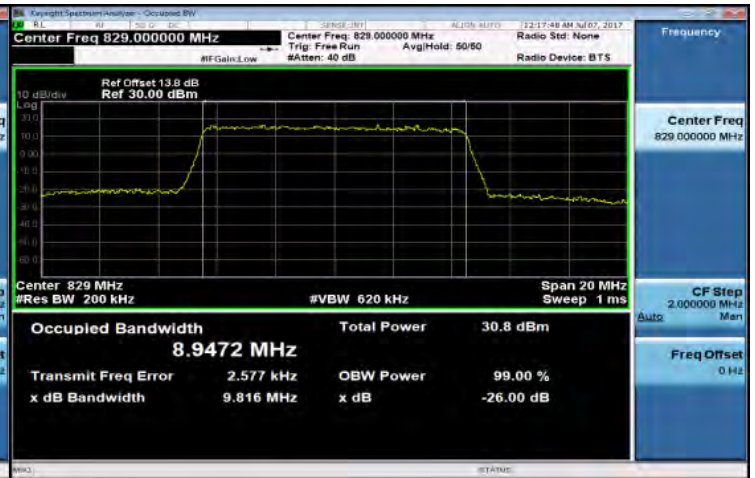
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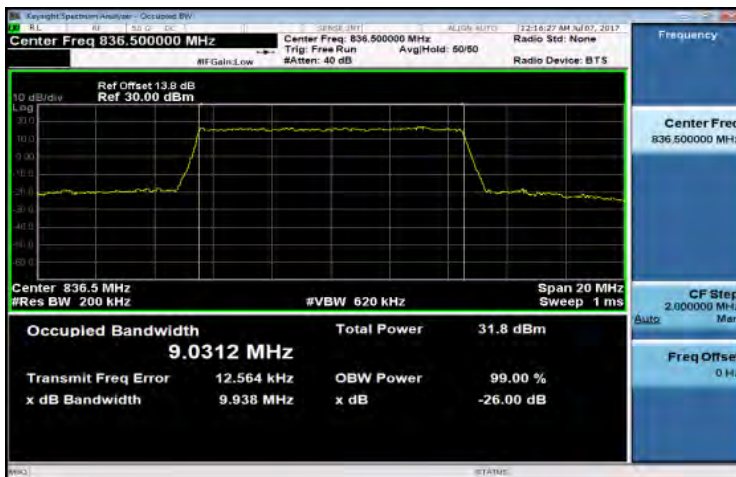
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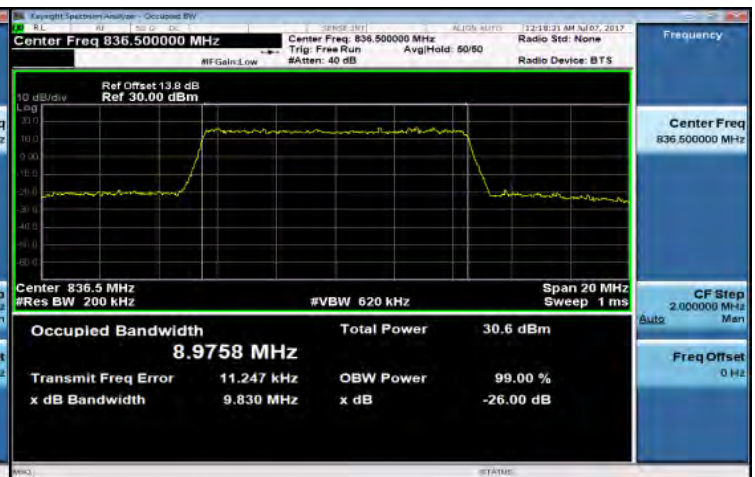
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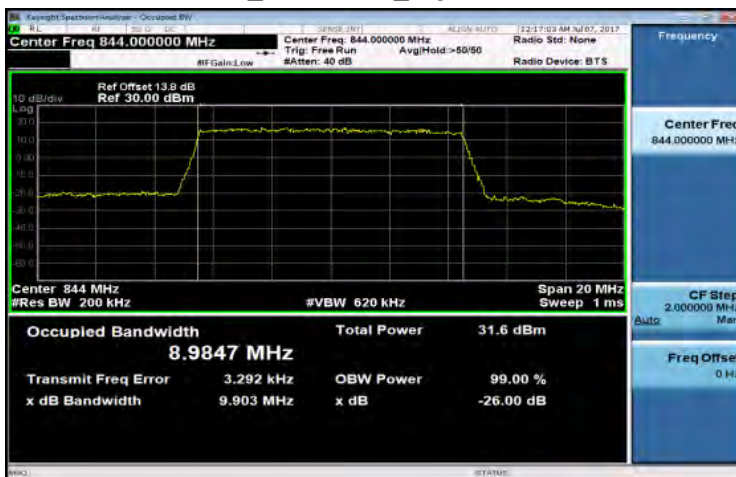
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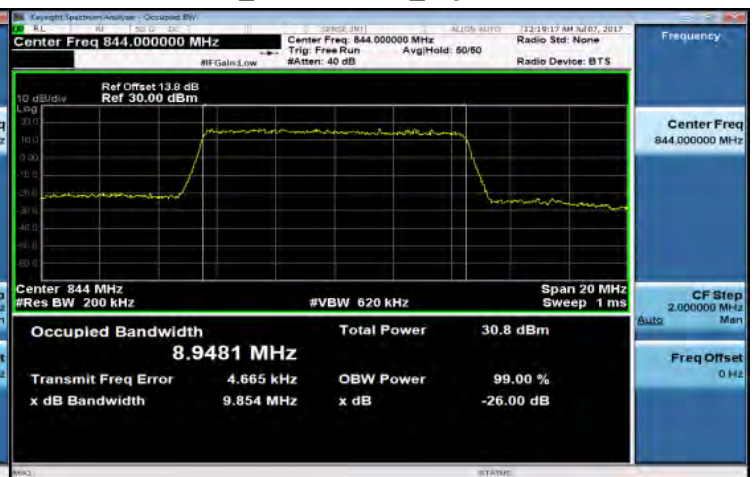
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Band5 10MHz_QPSK 50 0_HighCH20600-844



Band5 10MHz_16-QAM 50 0_HighCH20600-844



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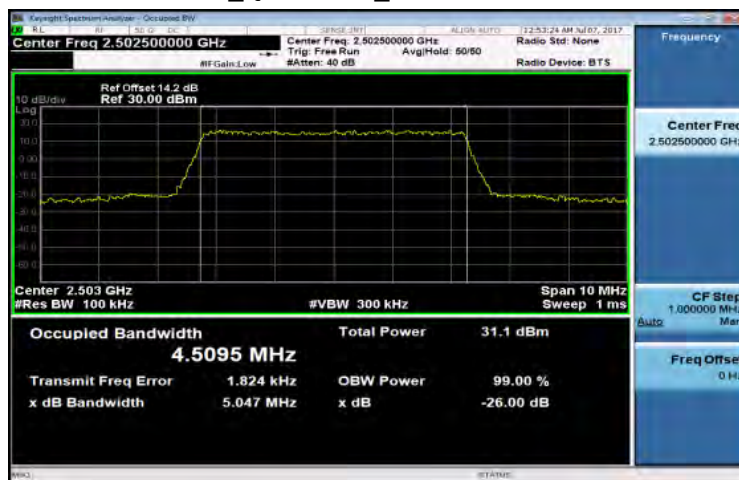
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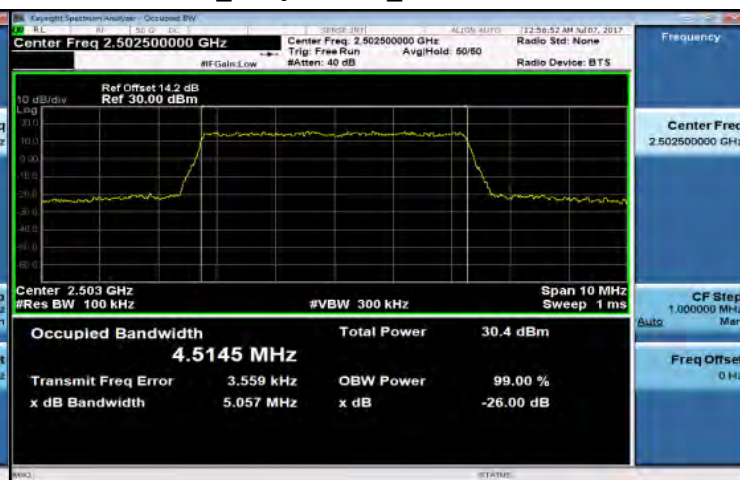
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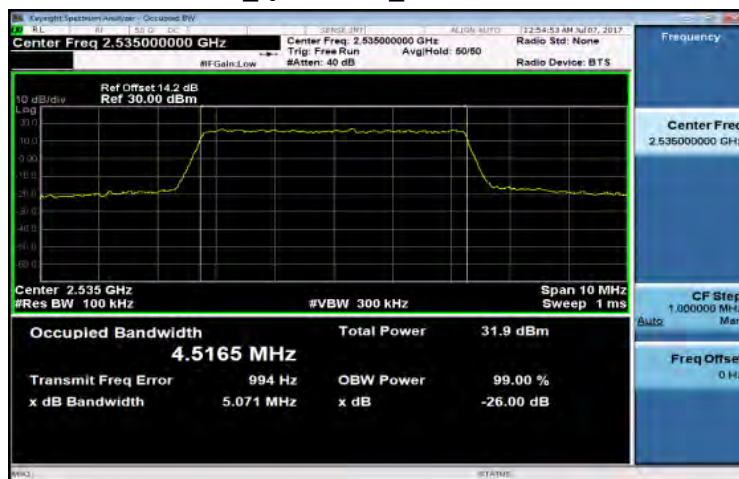
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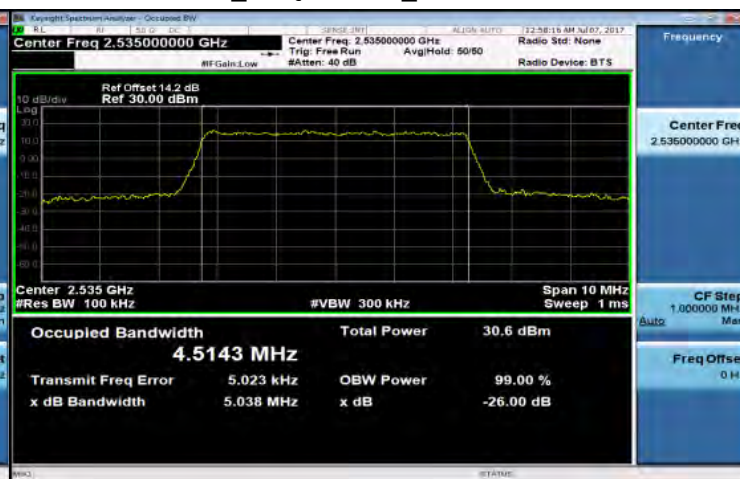
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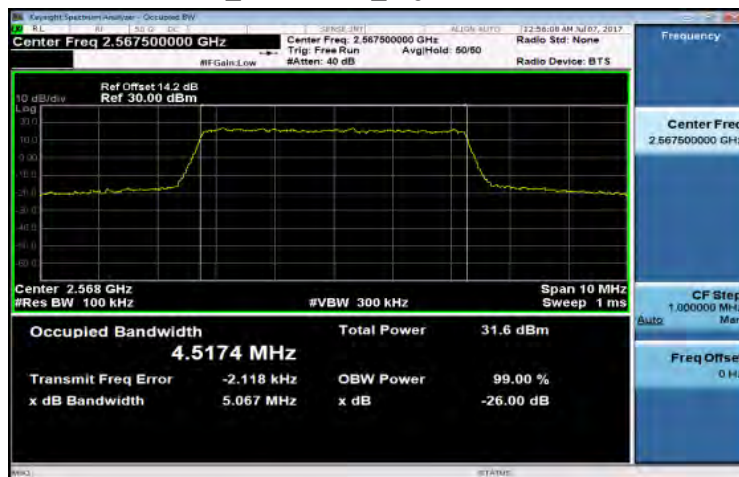
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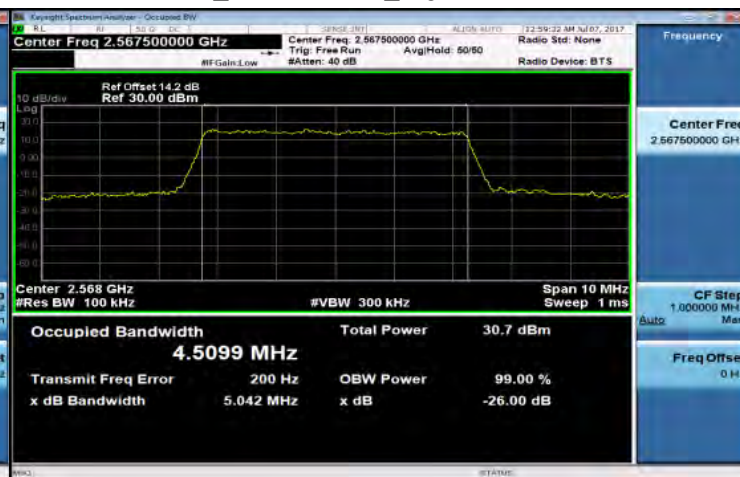
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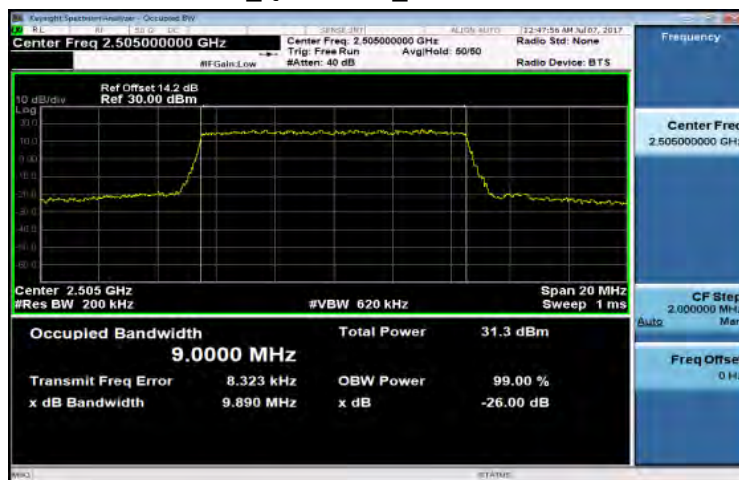


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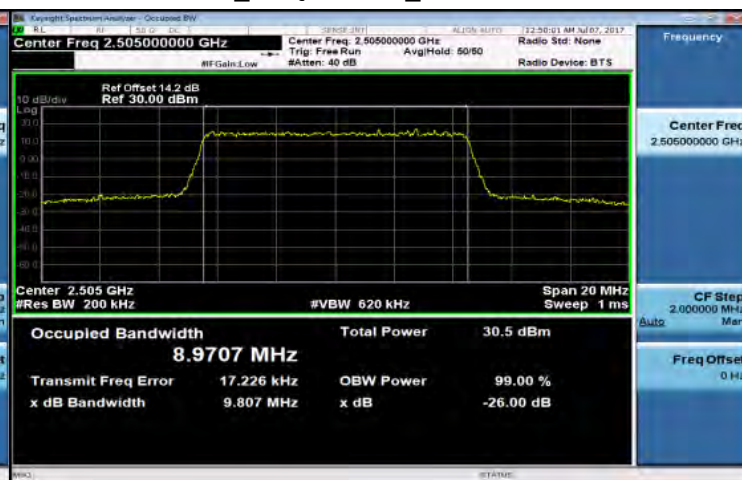
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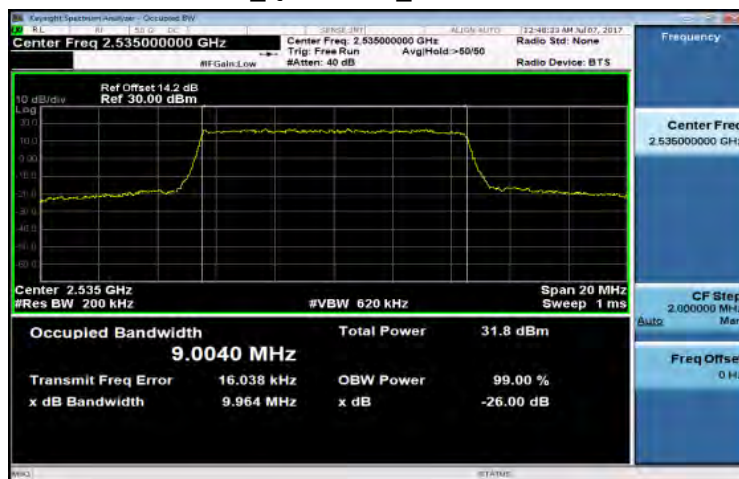
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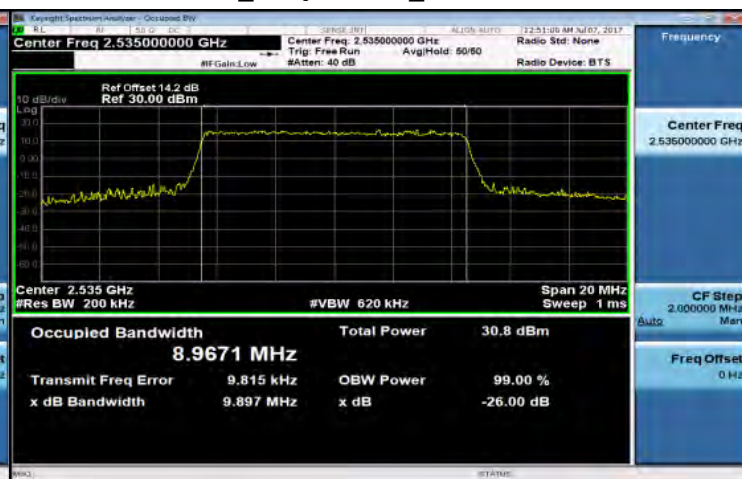
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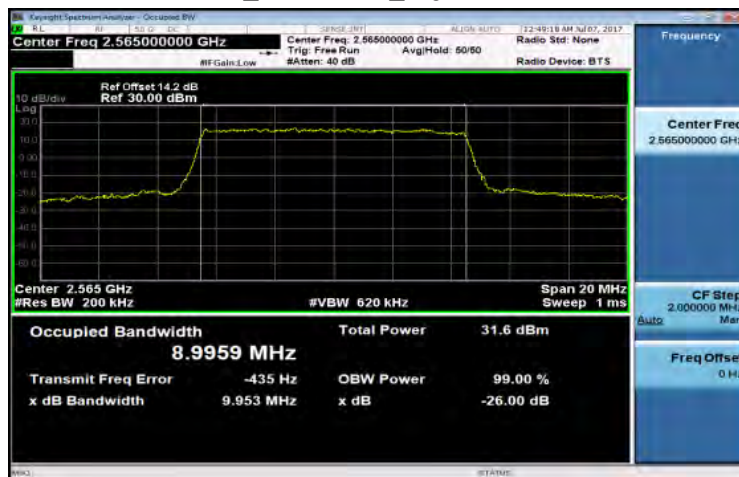
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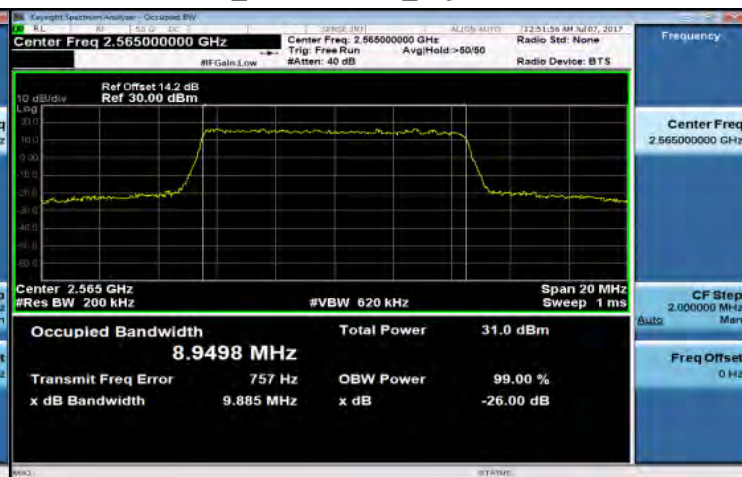
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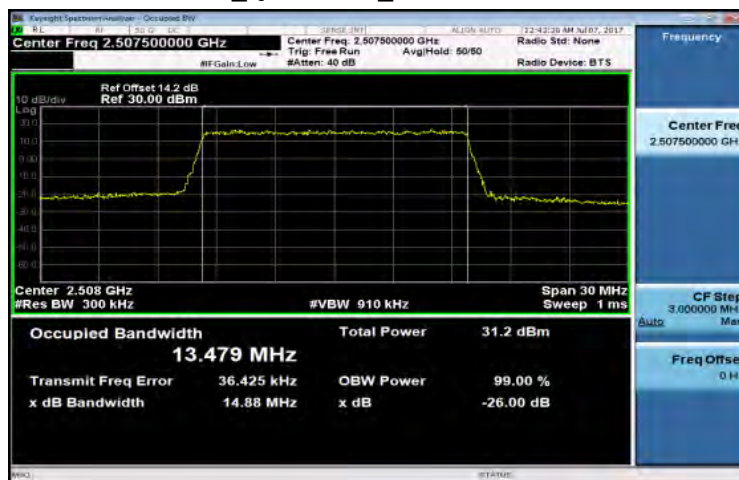


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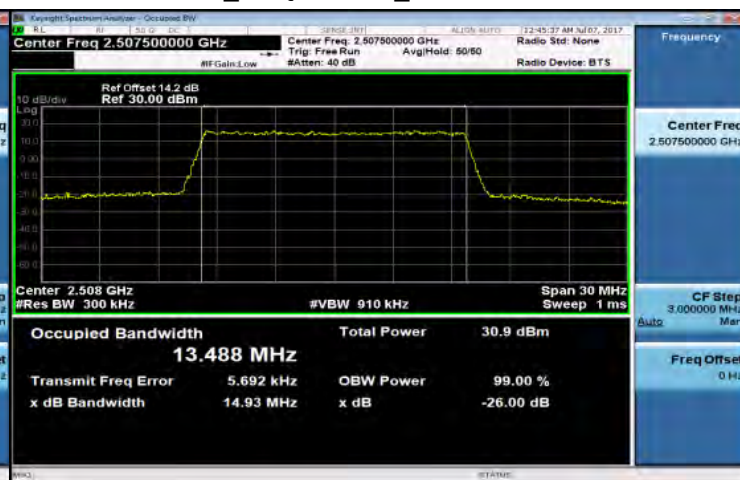
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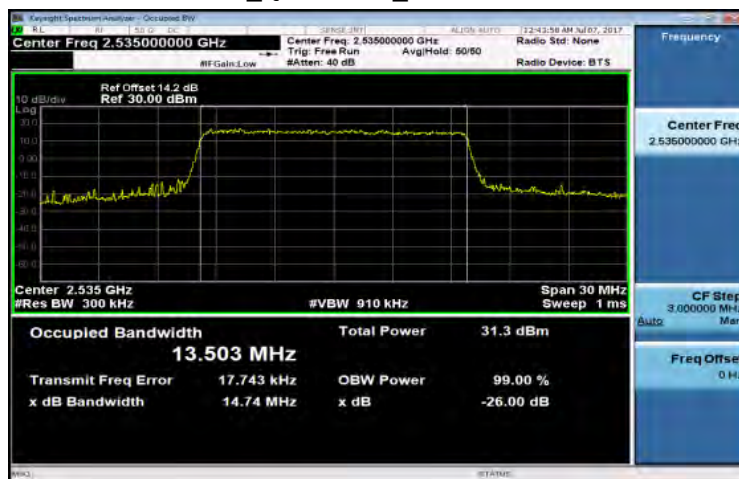
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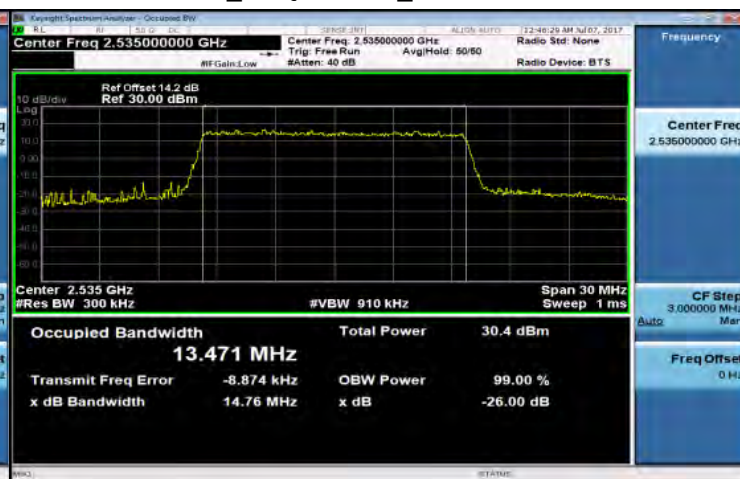
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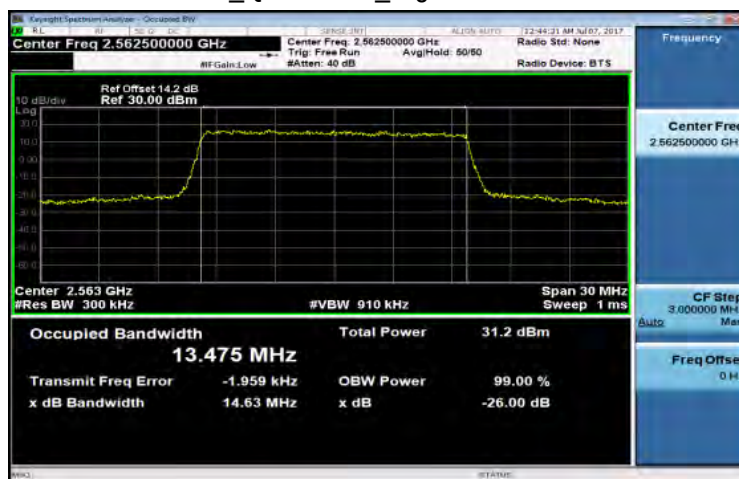
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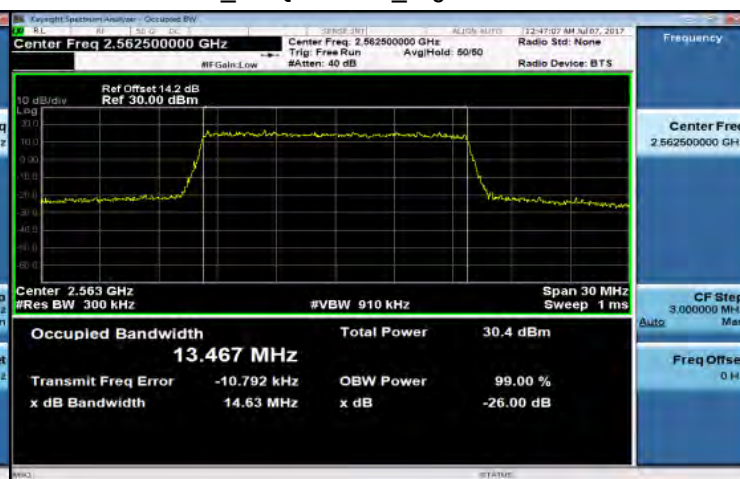
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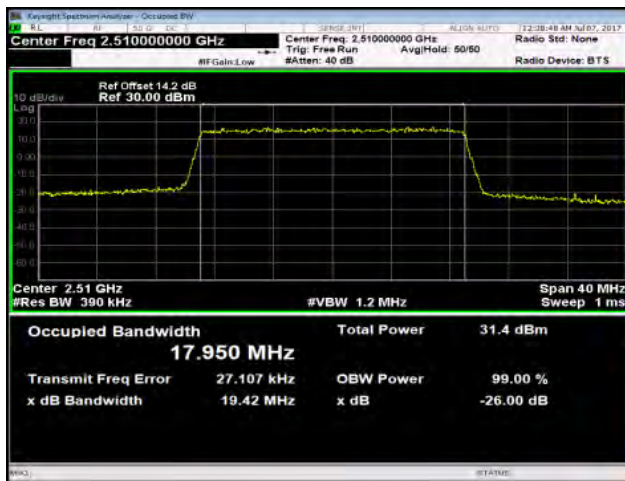
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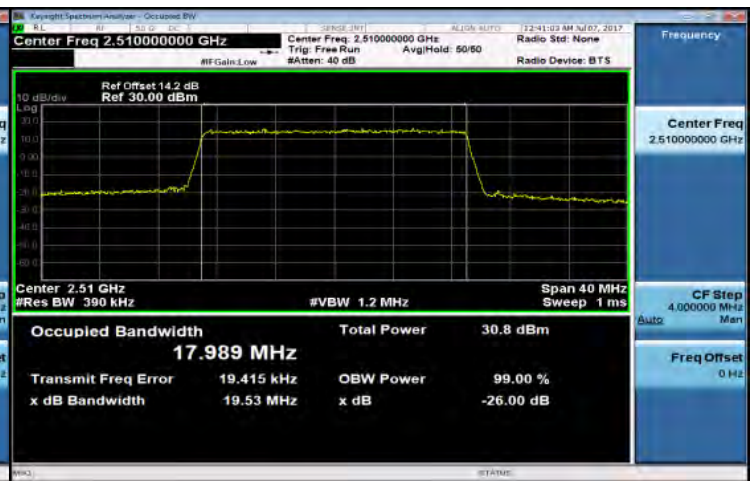
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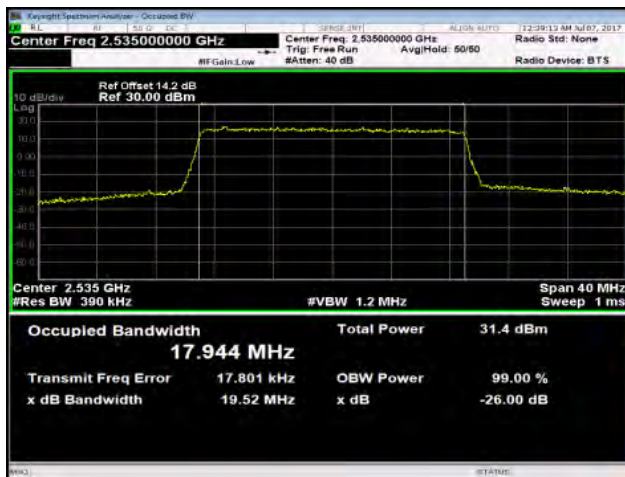
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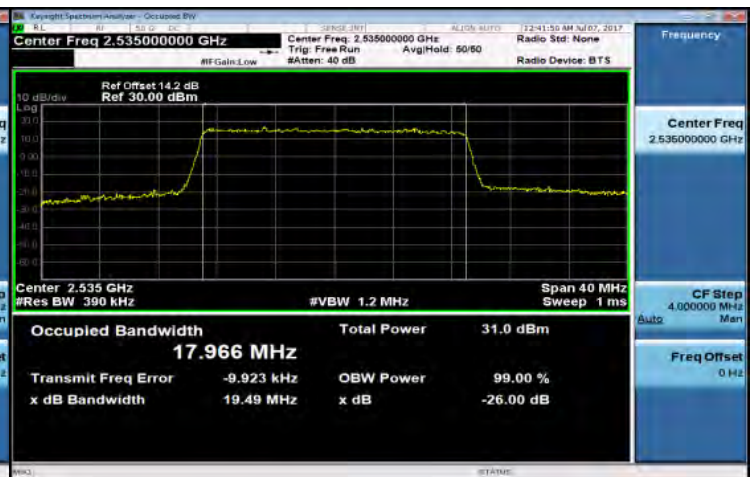
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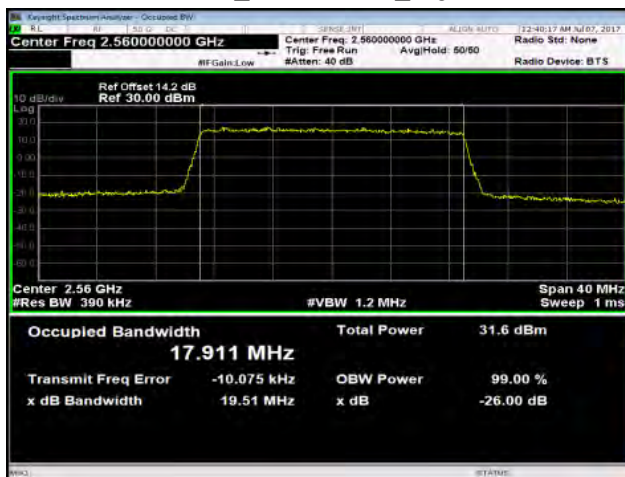
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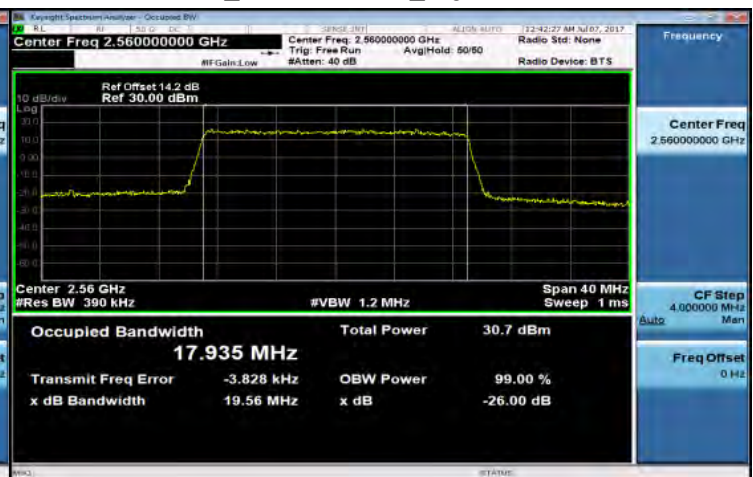
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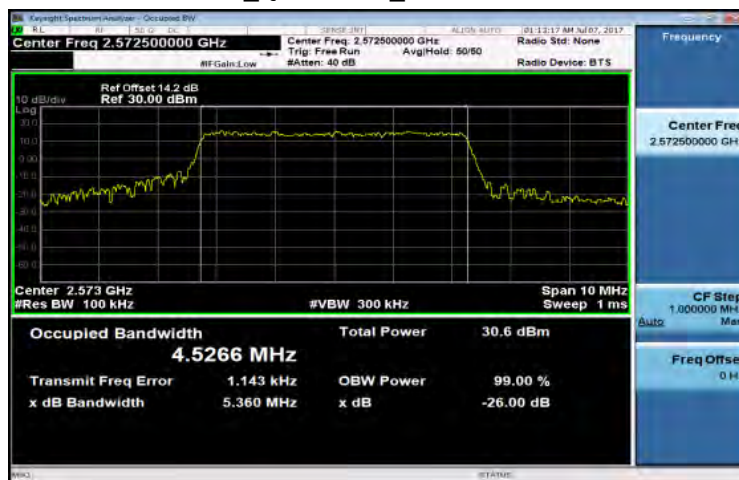


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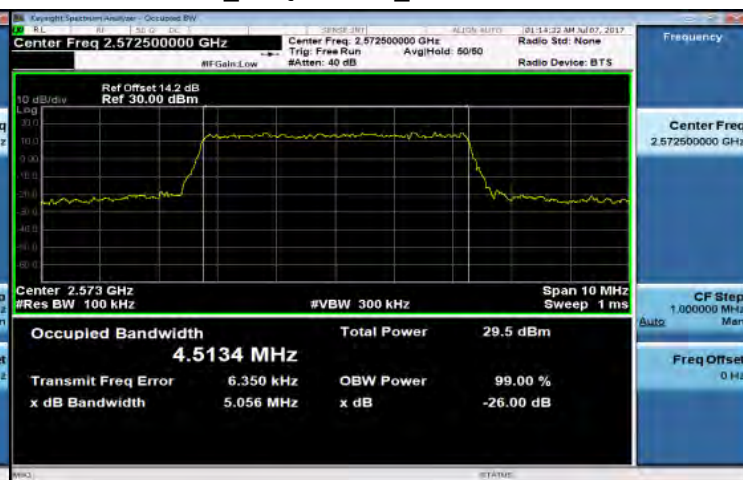
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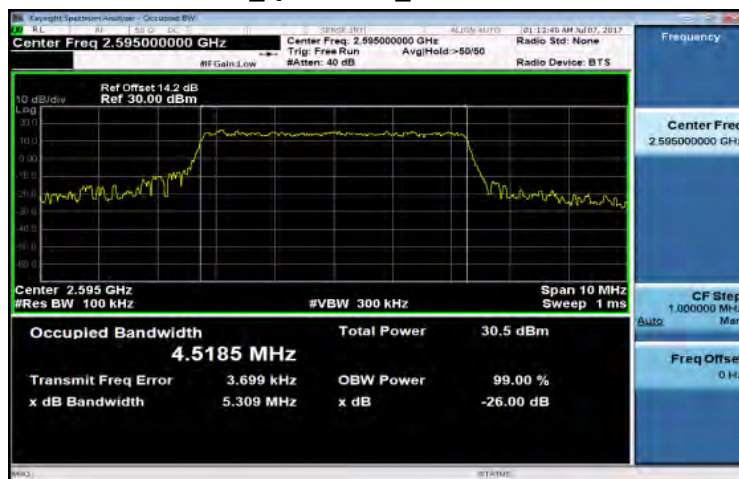
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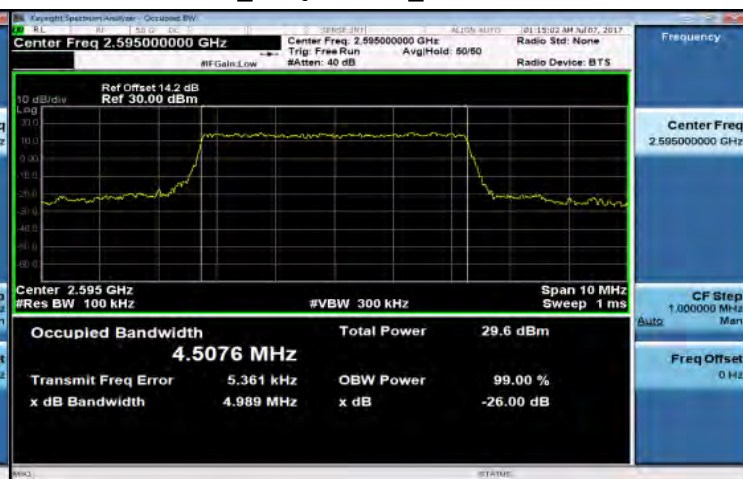
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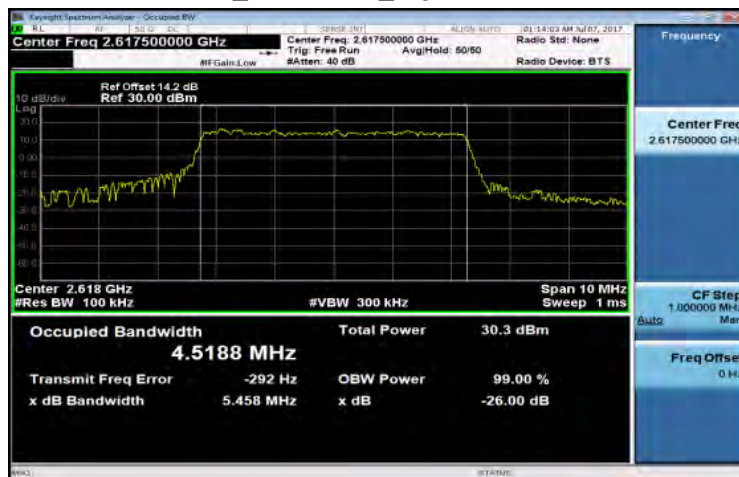
Band38 5MHz_QPSK 25 0_MidCH38000-2595



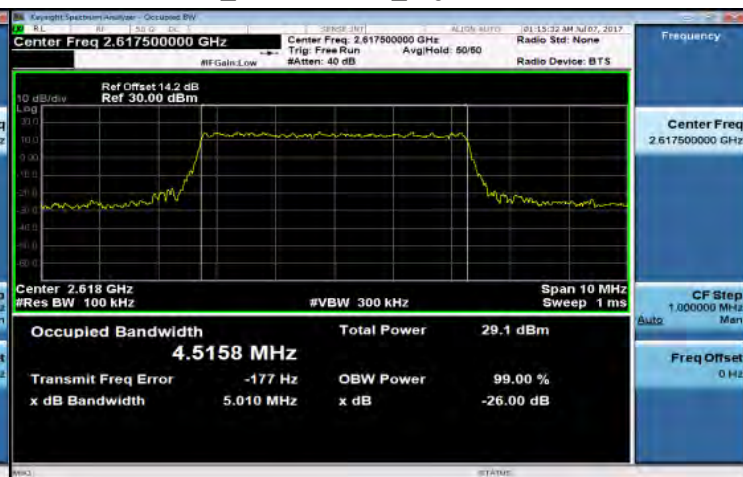
Band38 5MHz_16-QAM 25 0_MidCH38000-2595



Band38 5MHz_QPSK 25 0_HighCH38225-2617.5



Band38 5MHz_16-QAM 25 0_HighCH38225-2617.5



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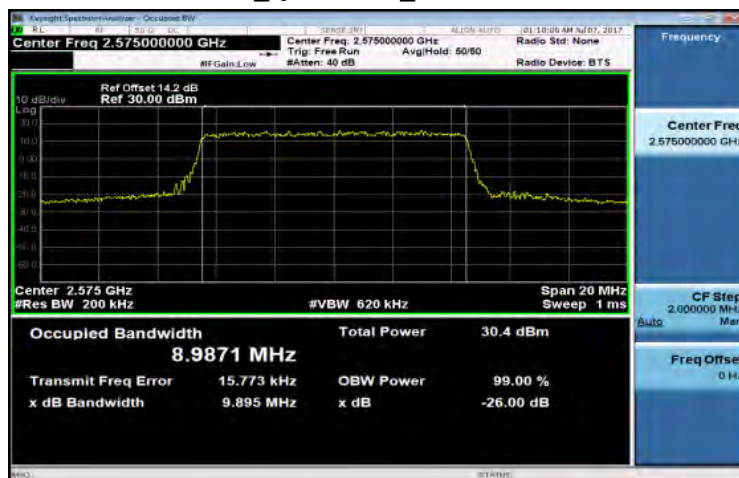
t (886-2) 2299-3279

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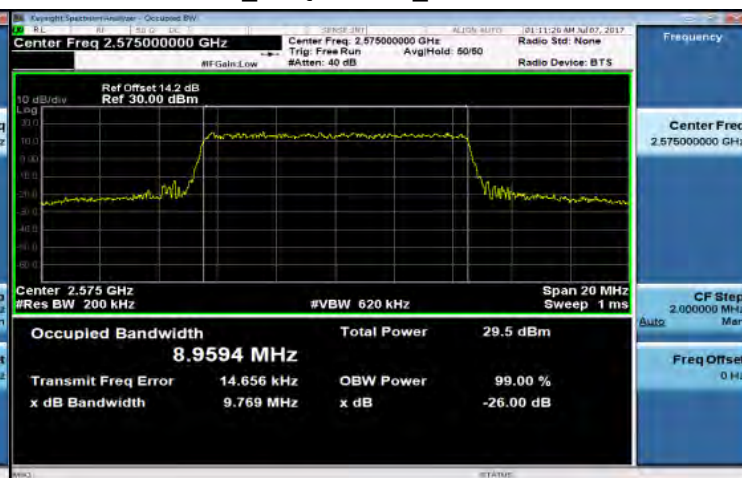
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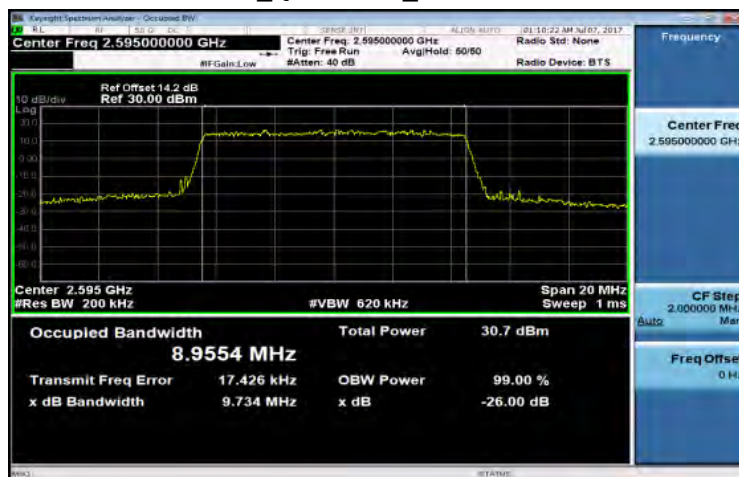
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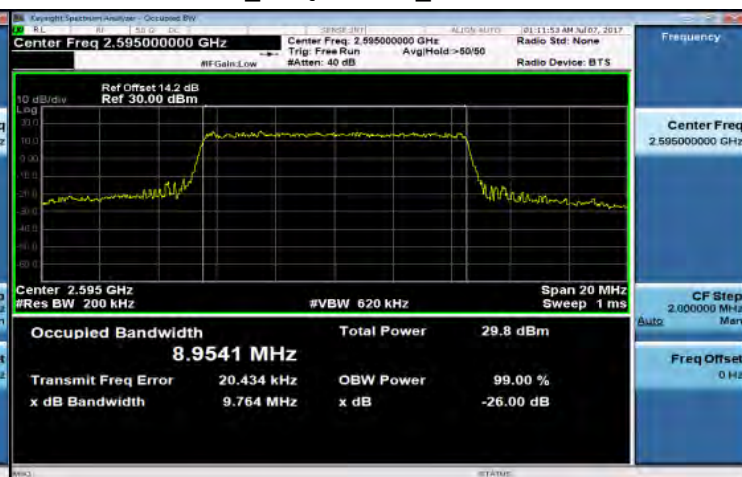
Band38 10MHz_16-QAM 50 0_LowCH37800-2575



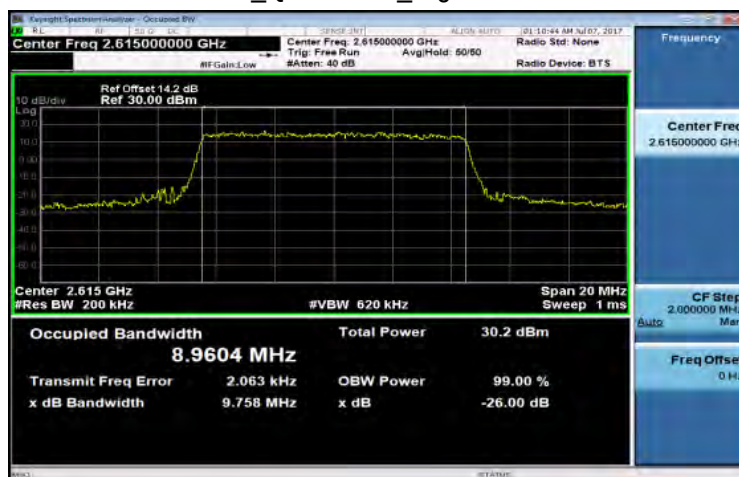
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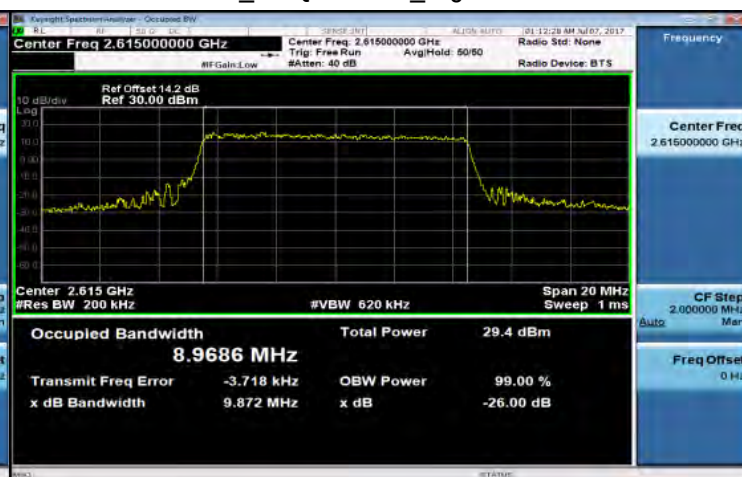
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Band38 10MHz_QPSK 50 0_HighCH38200-2615



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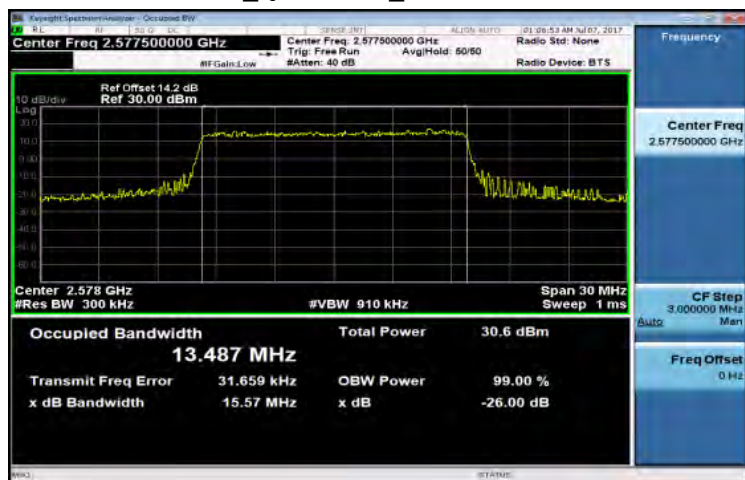


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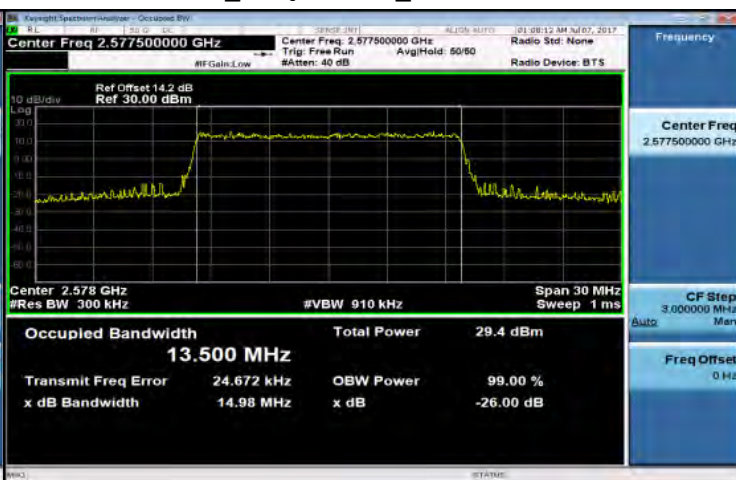
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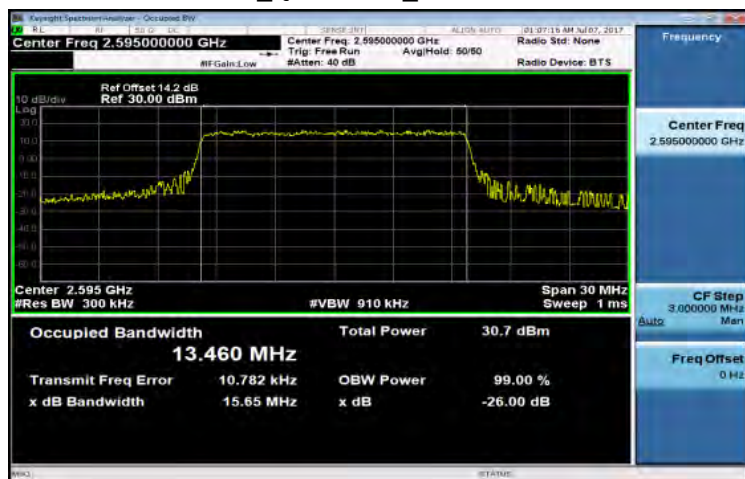
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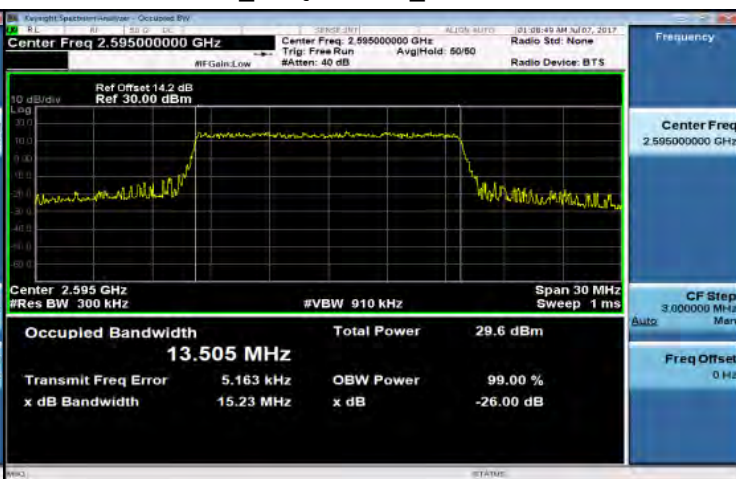
Band38 15MHz_16-QAM 75 0_LowCH37825-2577.5



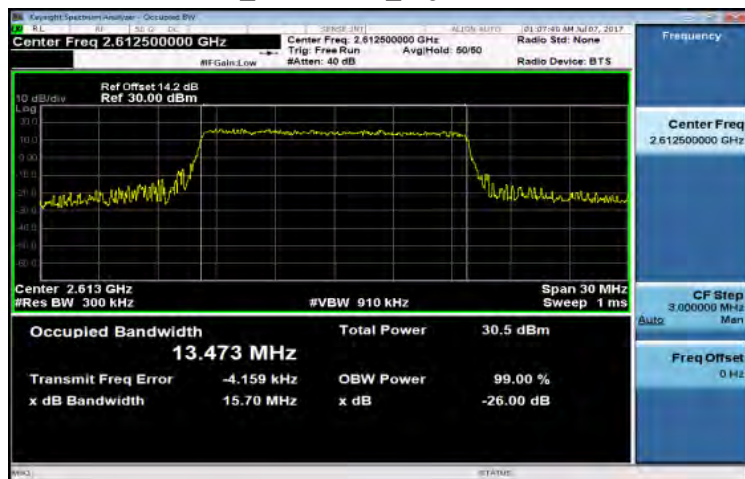
Band38 15MHz_QPSK 75 0_MidCH38000-2595



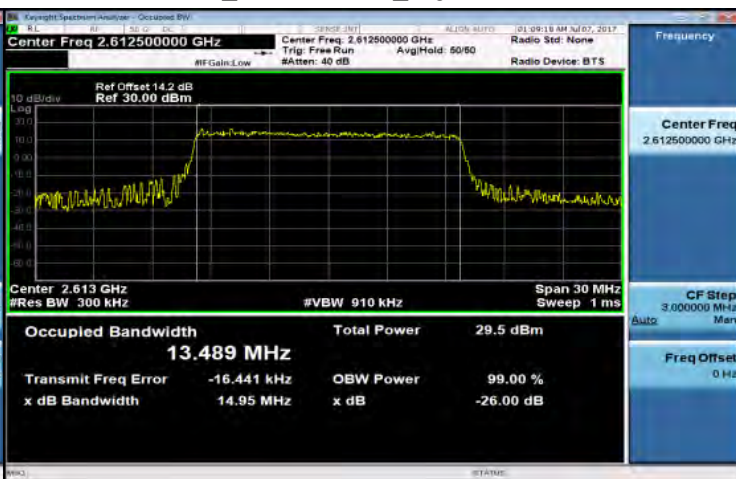
Band38 15MHz_16-QAM 75 0_MidCH38000-2595



Band38 15MHz_QPSK 75 0_HighCH38175-2612.5



Band38 15MHz_16-QAM 75 0_HighCH38175-2612.5

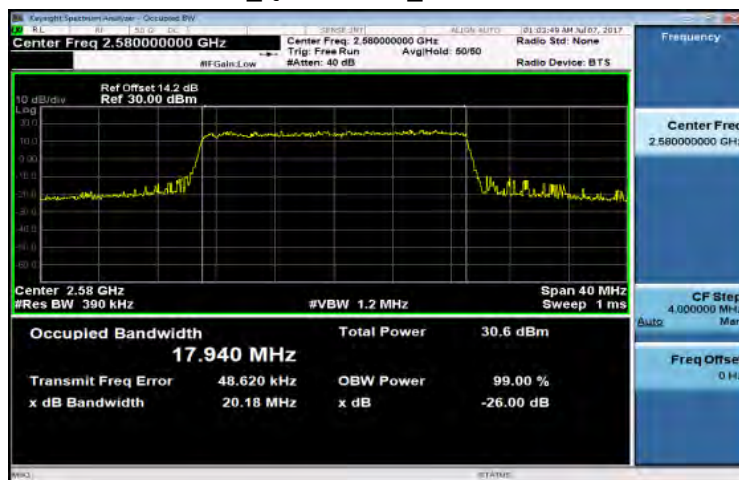


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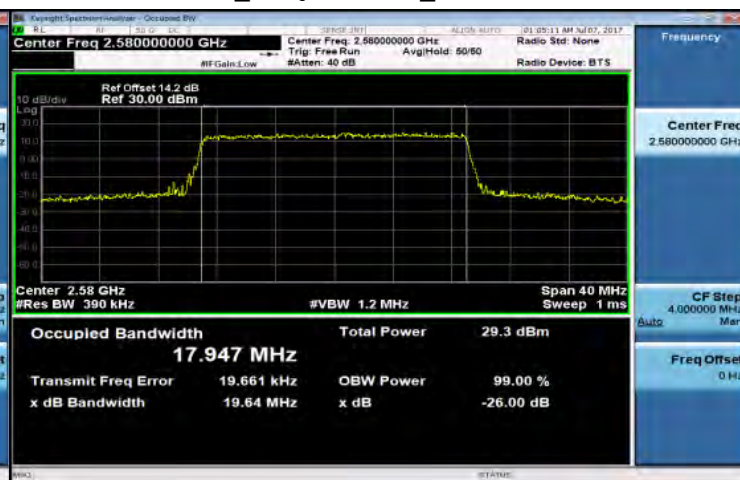
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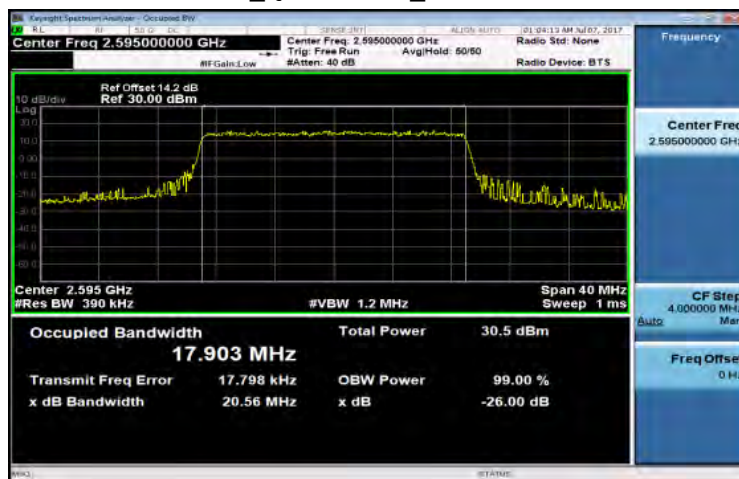
Band38 20MHz_QPSK 100 0_LowCH37850-2580



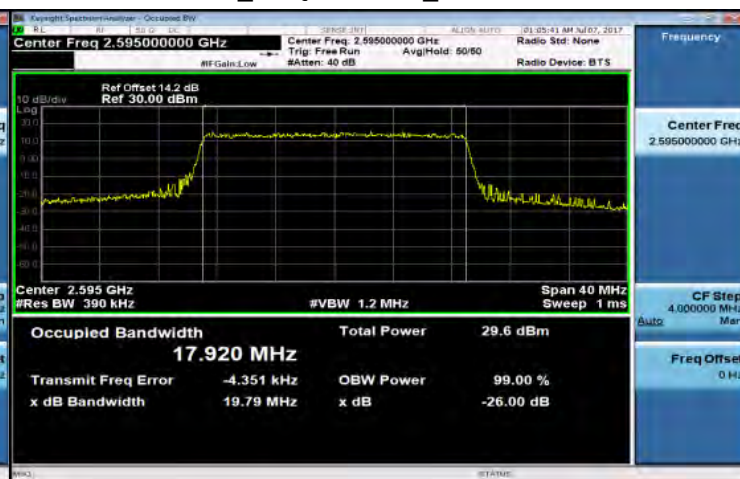
Band38 20MHz_16-QAM 100 0_LowCH37850-2580



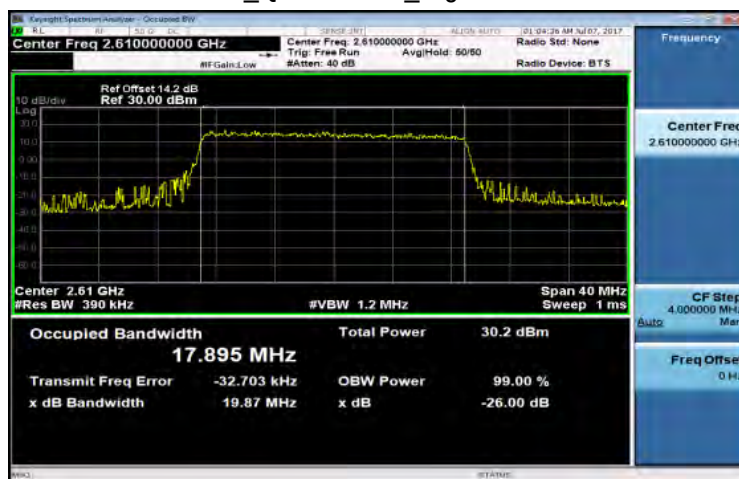
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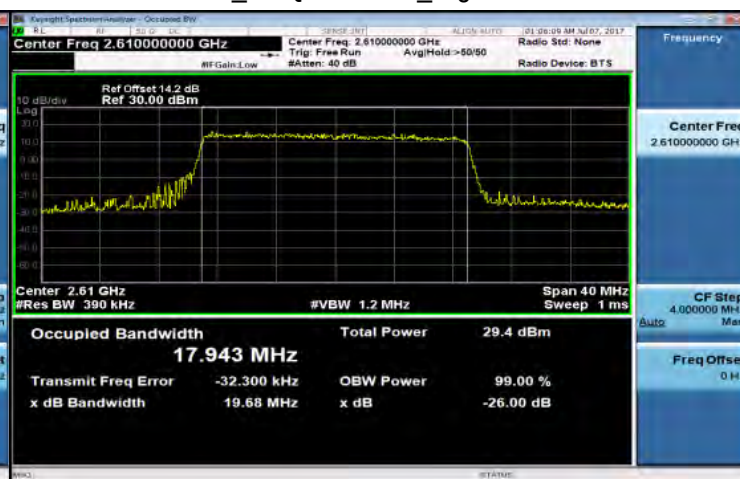
Band38 20MHz_16-QAM 100 0_MidCH38000-2595



Band38 20MHz_QPSK 100 0_HighCH38150-2610



Band38 20MHz_16-QAM 100 0_HighCH38150-2610



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h), *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(c) (5) & FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h) (3)

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.

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FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). 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. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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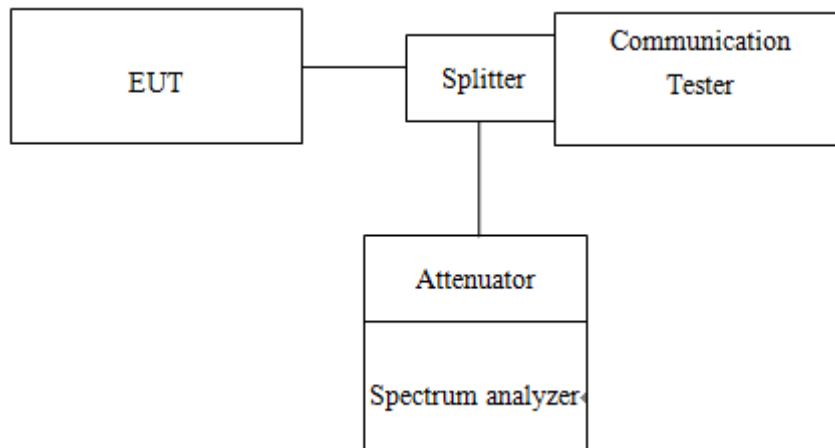
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9.2. Test SET-UP



9.3. Measurement Procedure

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.

Band Edge

1. 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 $RBW \geq 1\% \text{ EBW}$.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

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9.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HU-BER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2017	02/10/2018
Radio Communication Analyser	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

9.5. Measurement Result:

Refer to next pages.

NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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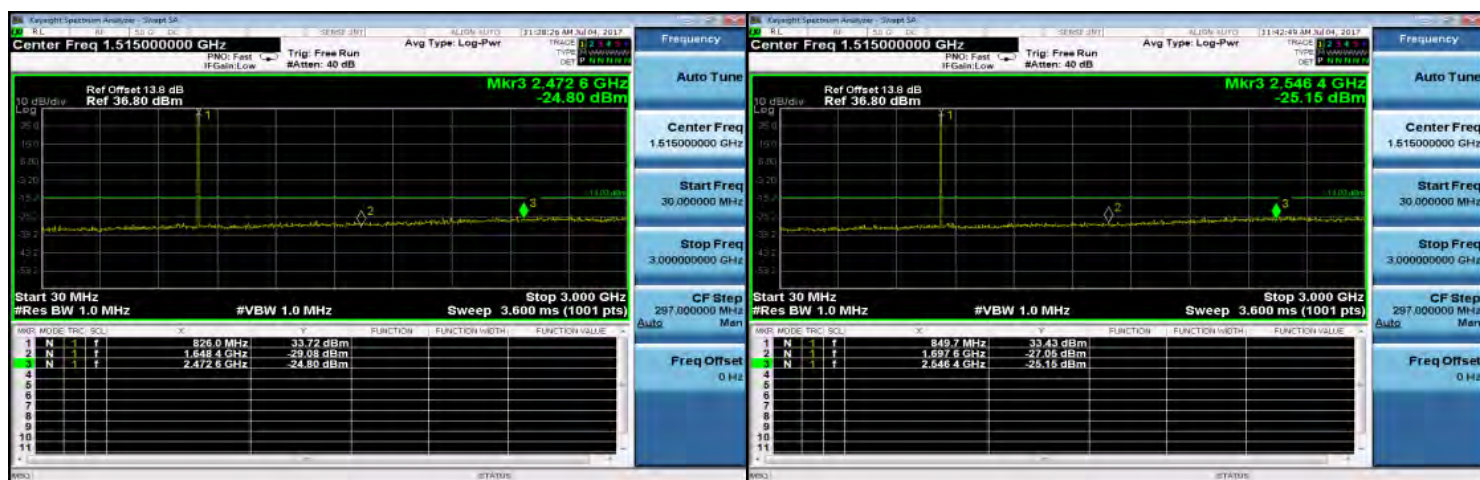
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Out of Band Emission Low_GSM_850MHz_LowCH128-824.2

Out of Band Emission Low_GSM_850MHz_HighCH251-848.8



Out of Band Emission Low_GSM_850MHz_MidCH190-836.6

Out of Band Emission Low_GPRS_850MHz_LowCH128-824.2



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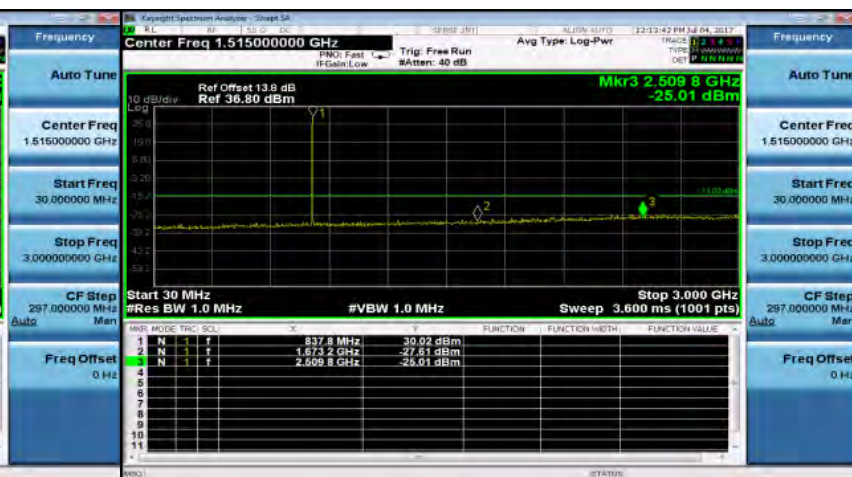
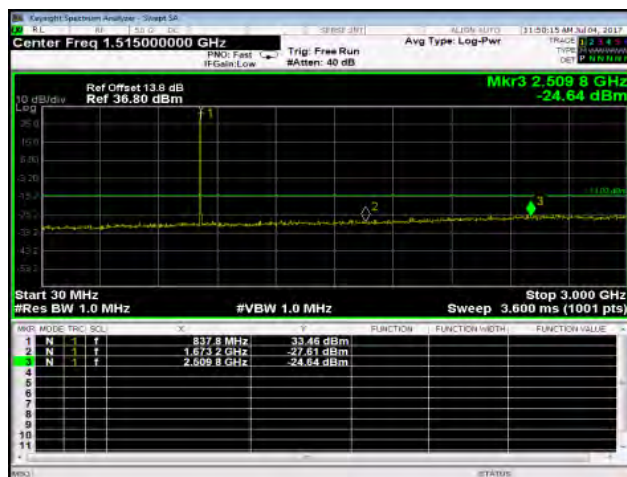
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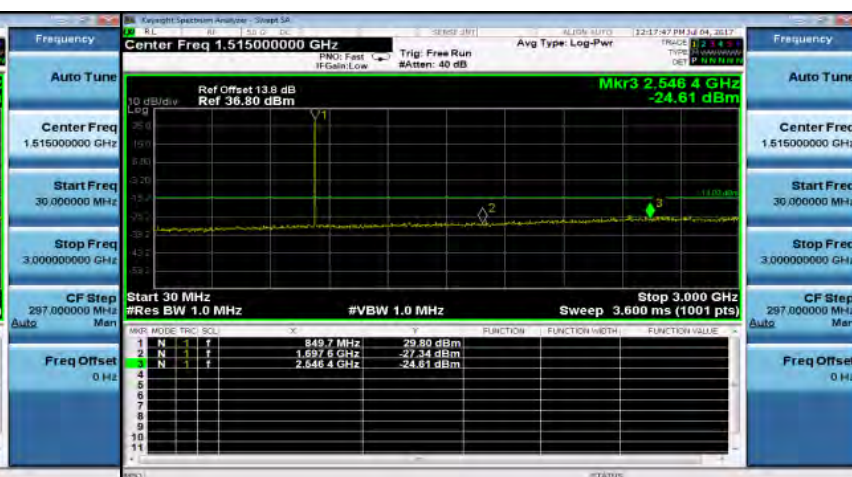
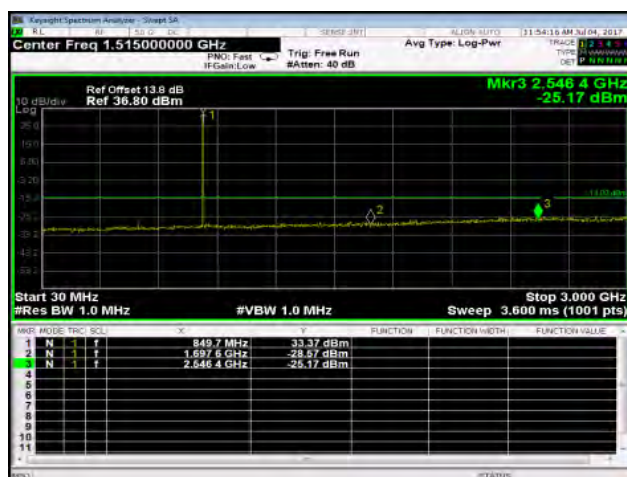
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Out of Band Emission Low_EDGE_850MHz_MidCH190-836.6



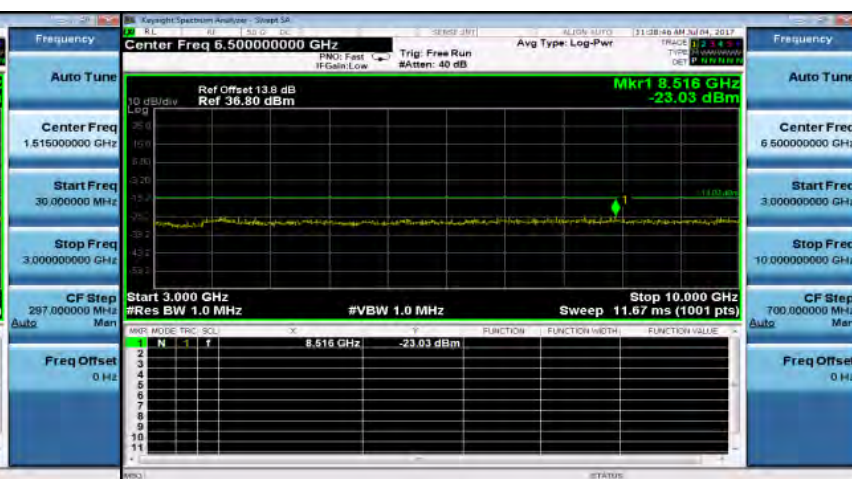
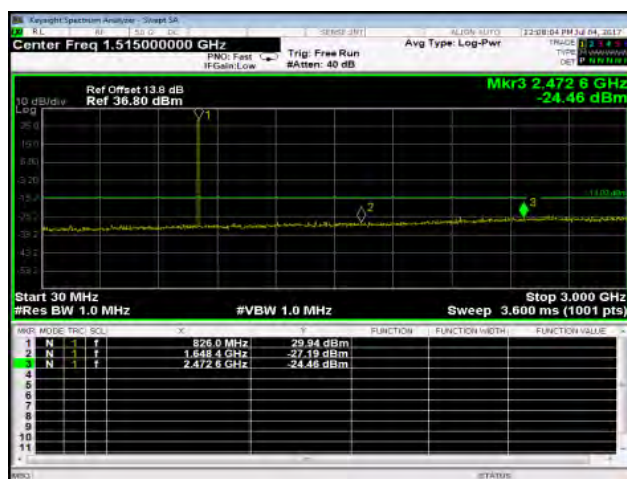
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Out of Band Emission Low_EDGE_850MHz_HighCH251-848.8



Out of Band Emission Low_EDGE_850MHz_LowCH128-824.2

Out of Band Emission High_GSM_850MHz_LowCH128-824.2



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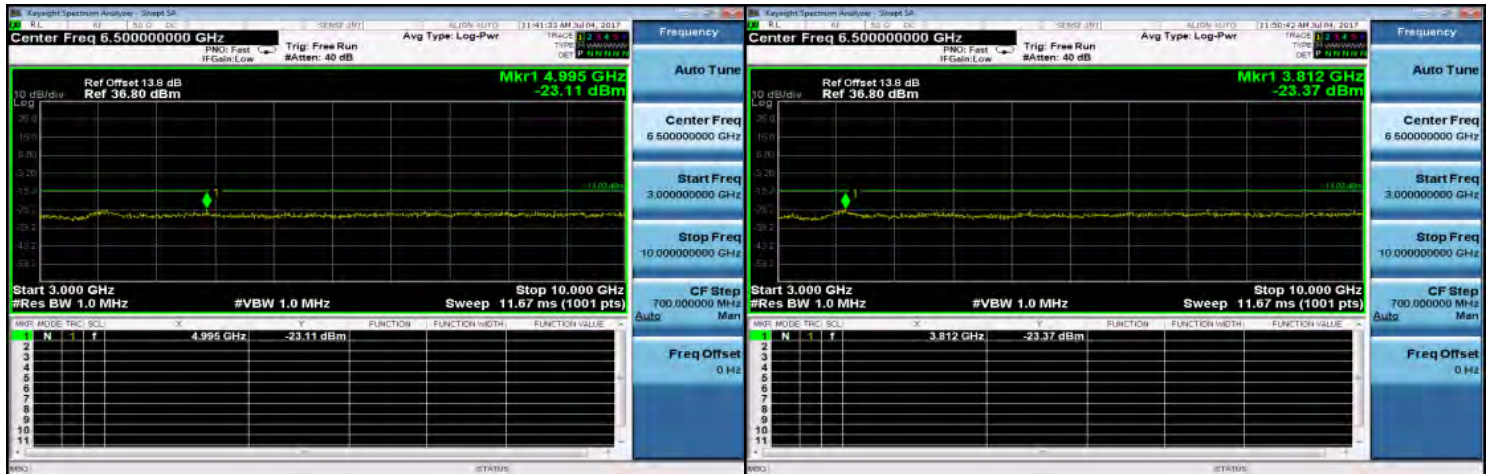
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Out of Band Emission High_GSM_850MHz_MidCH190-836.6

Out of Band Emission High_GPRS_850MHz_MidCH190-836.6



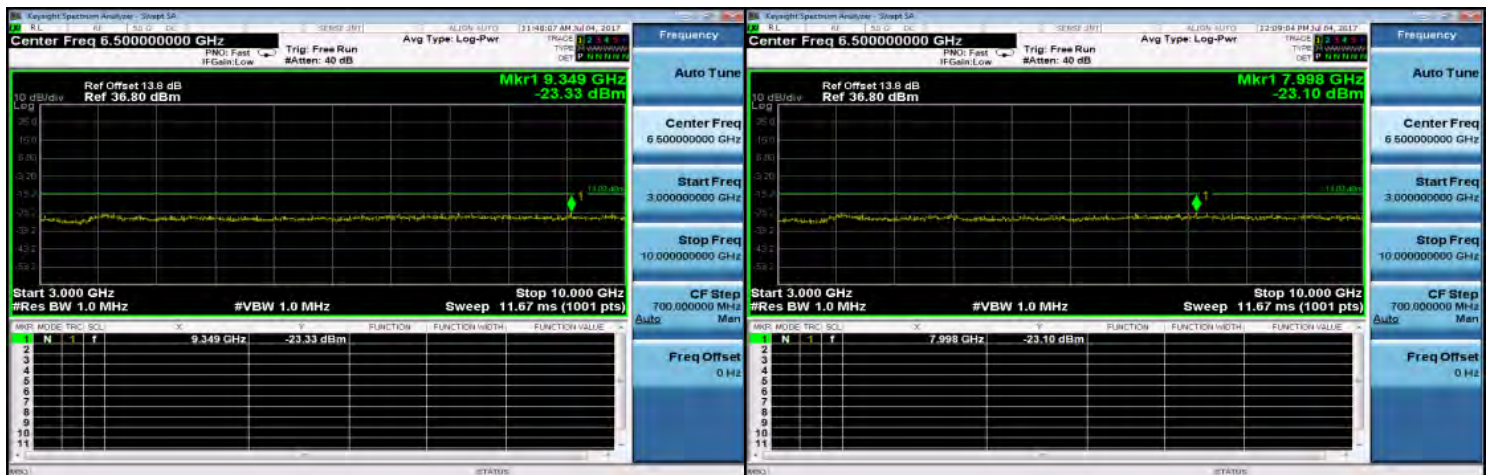
Out of Band Emission High_GSM_850MHz_HighCH251-848.8

Out of Band Emission High_GPRS_850MHz_HighCH251-848.8



Out of Band Emission High_GPRS_850MHz_LowCH128-824.2

Out of Band Emission High_EDGE_850MHz_LowCH128-824.2



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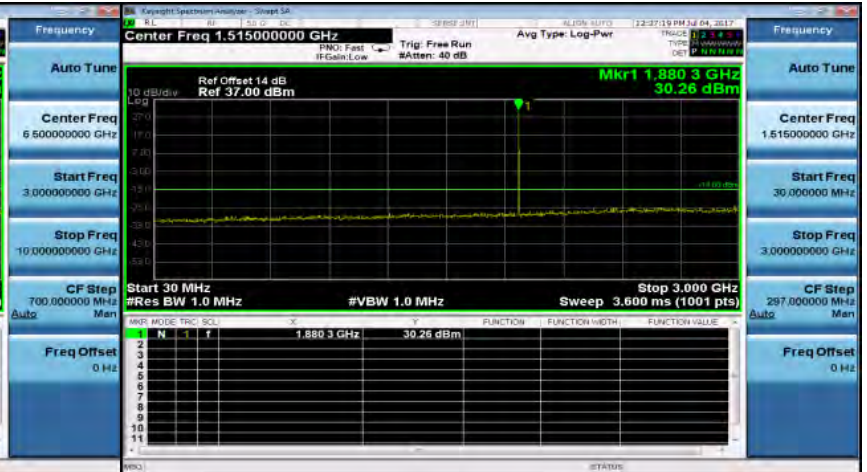
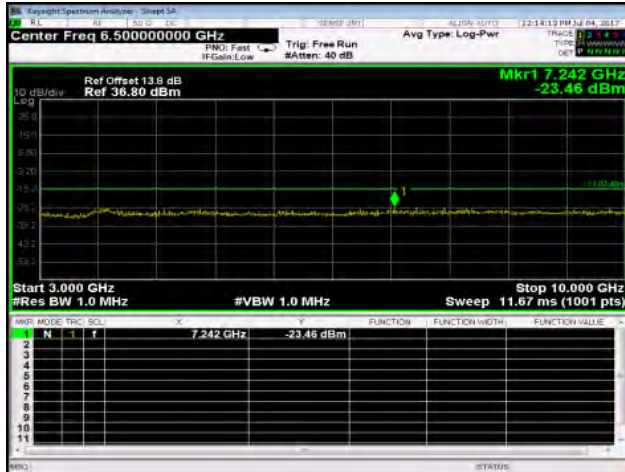
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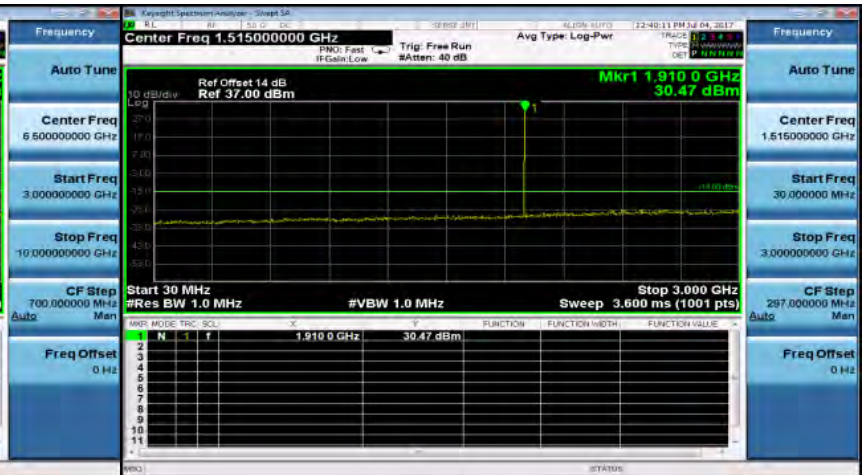
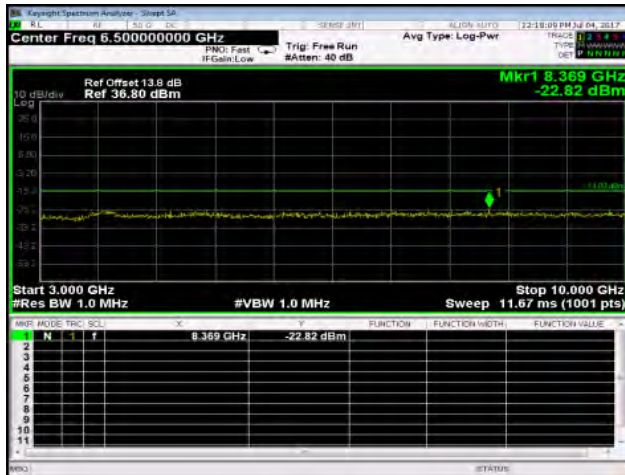
Out of Band Emission High_EDGE_850MHz_MidCH190-836.6

Out of Band Emission Low_GSM_1900MHz_MidCH661-1880



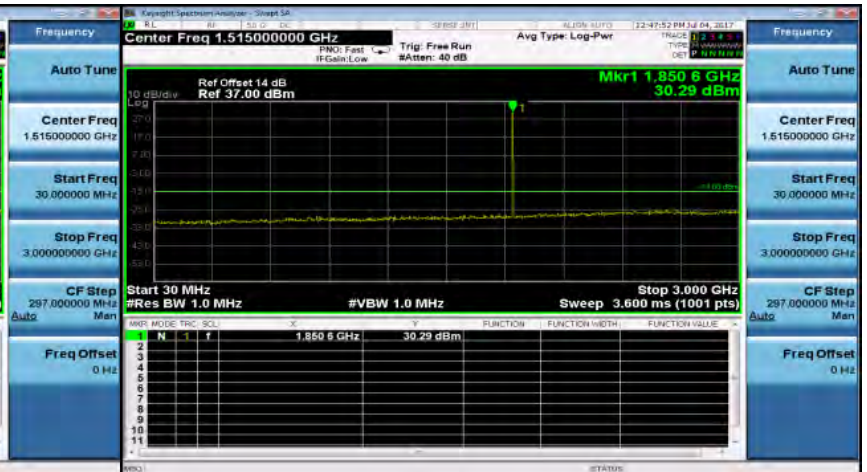
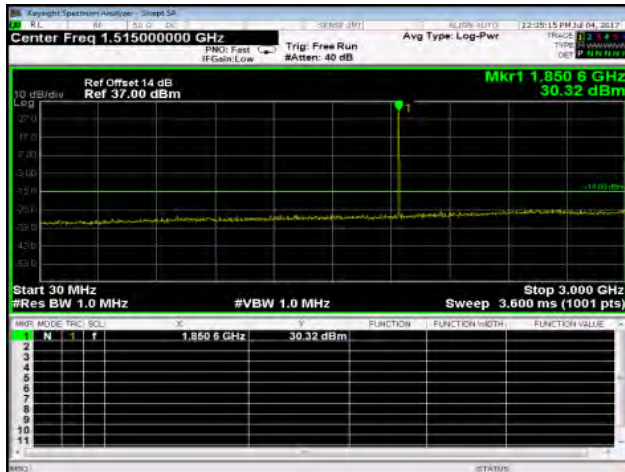
Out of Band Emission High_EDGE_850MHz_HighCH251-848.8

Out of Band Emission Low_GSM_1900MHz_HighCH810-1909.8



Out of Band Emission Low_GSM_1900MHz_LowCH512-1850.2

Out of Band Emission Low_GPRS_1900MHz_LowCH512-1850.2



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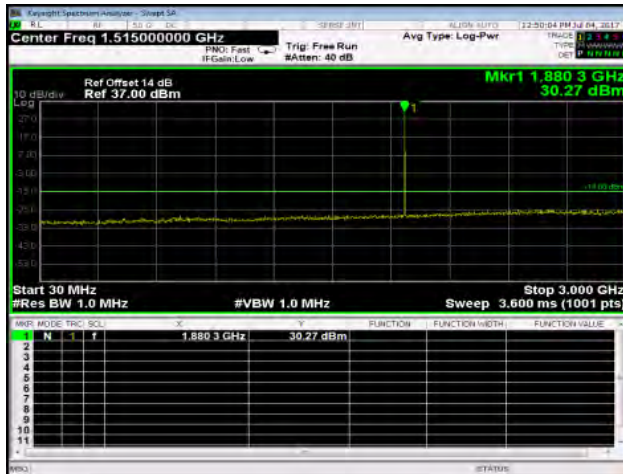
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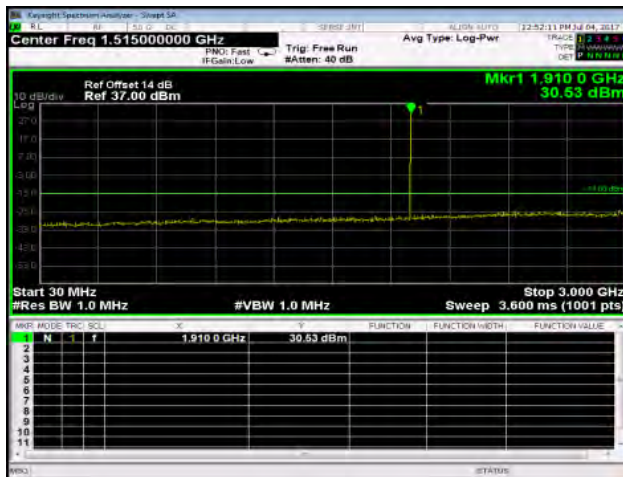
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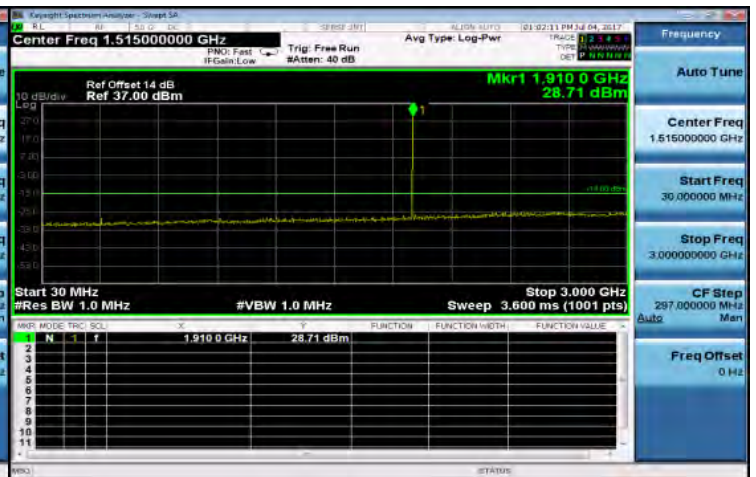
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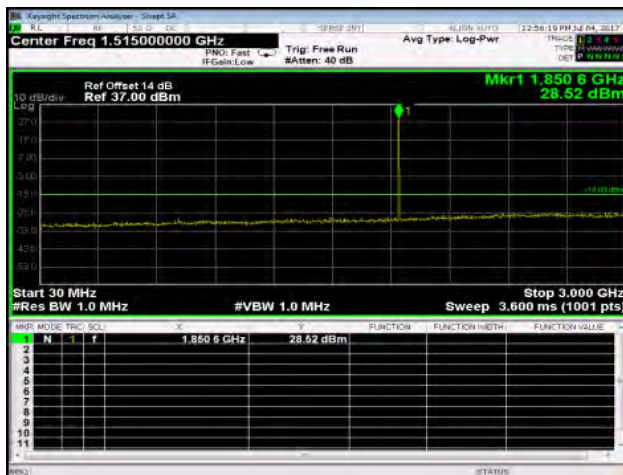
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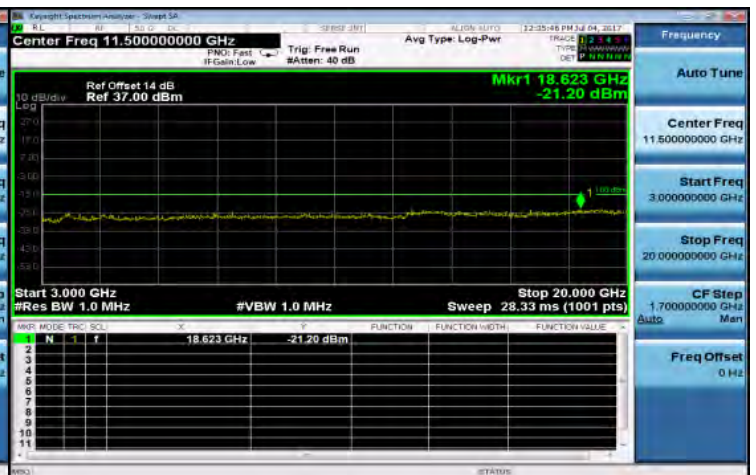
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Out of Band Emission Low_EDGE_1900MHz_LowCH512-1850.2



Out of Band Emission High_GSM_1900MHz_LowCH512-1850.2



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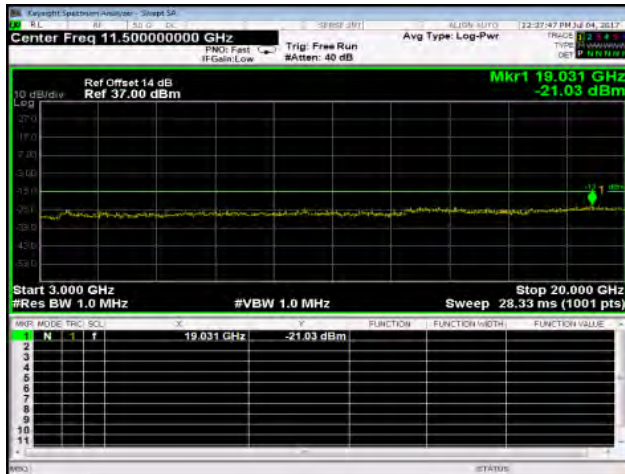
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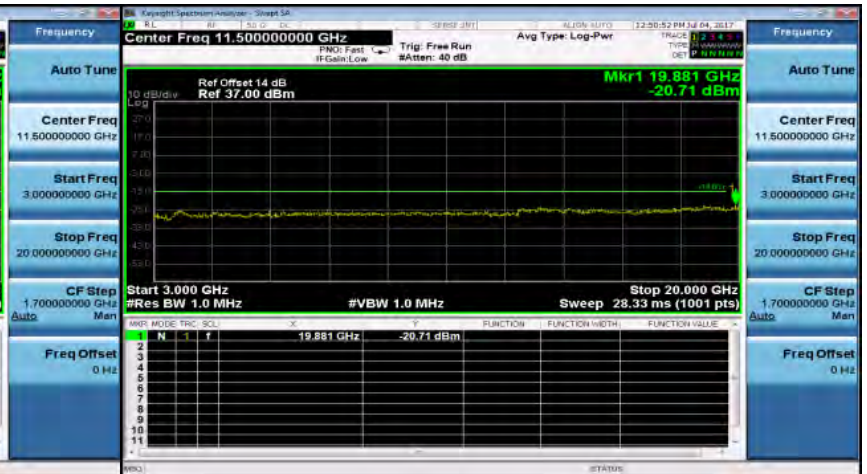
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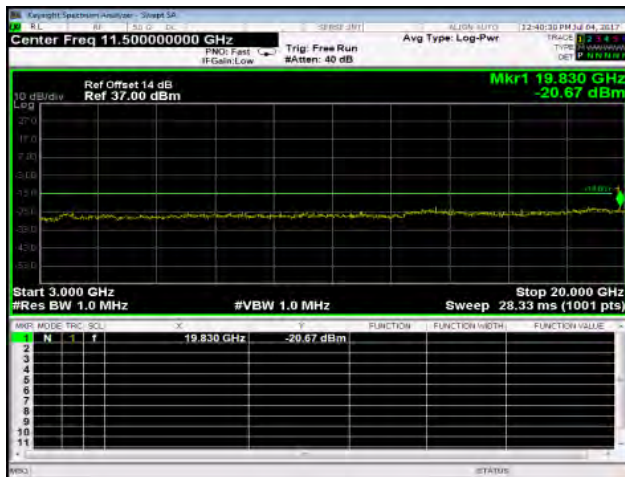
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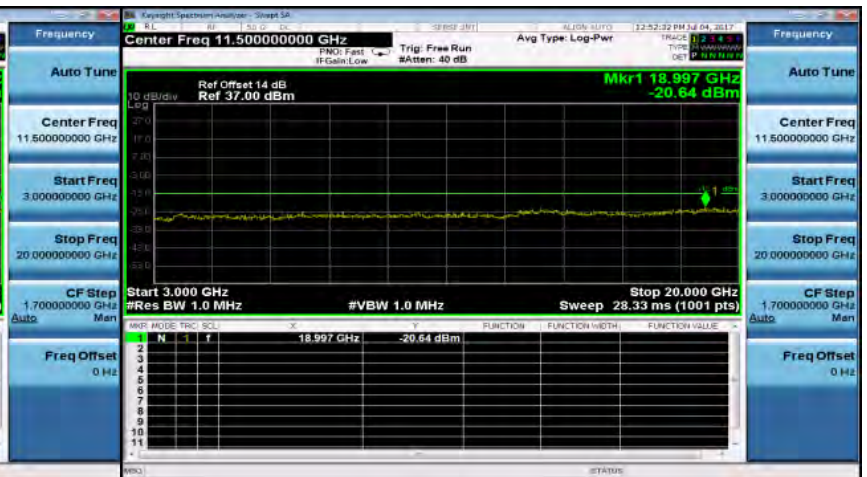
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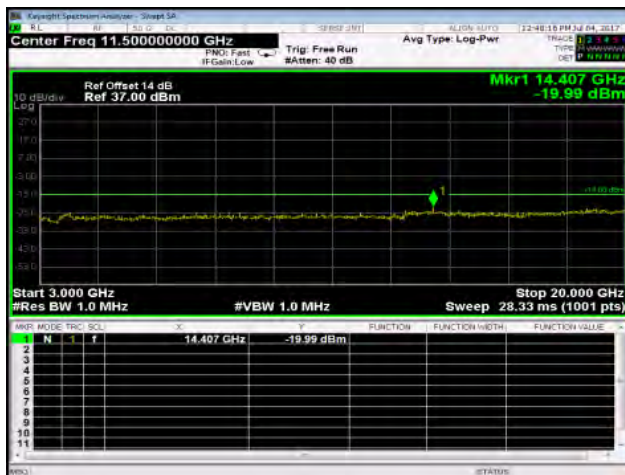
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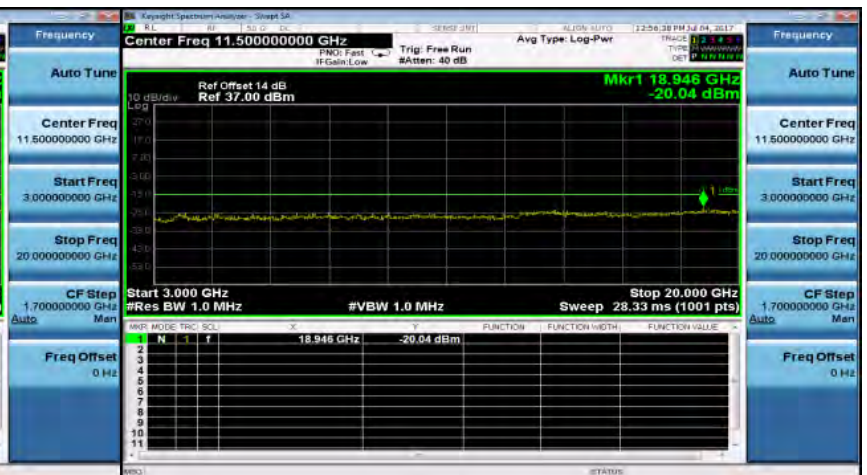
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Out of Band Emission High_GPRS_1900MHz_LowCH512-1850.2



Out of Band Emission High_EDGE_1900MHz_LowCH512-1850.2



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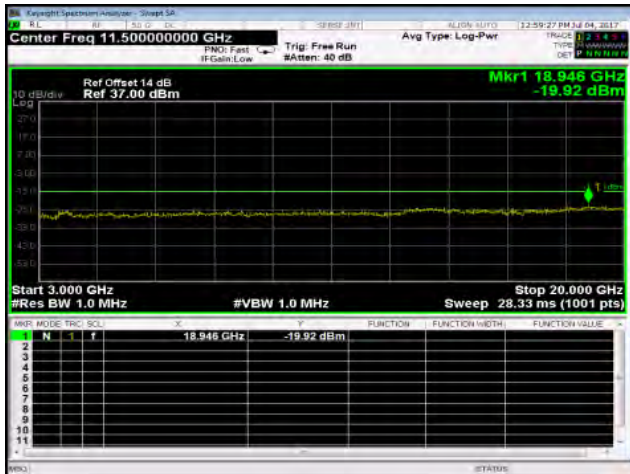
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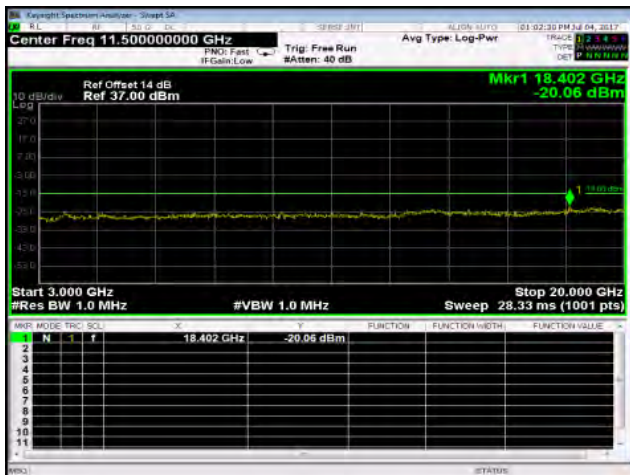
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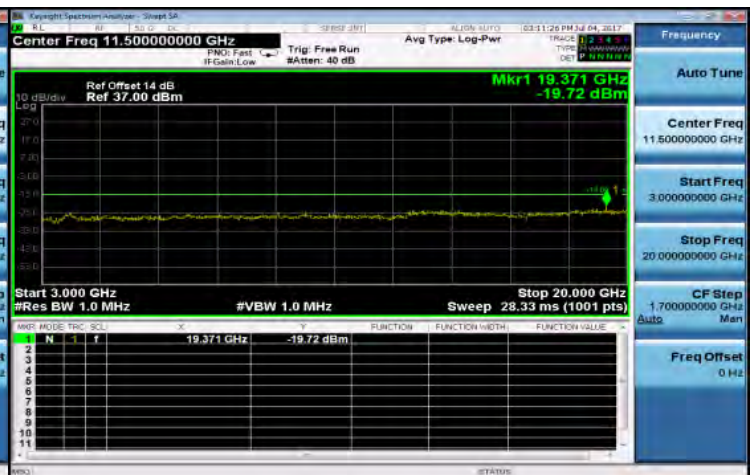
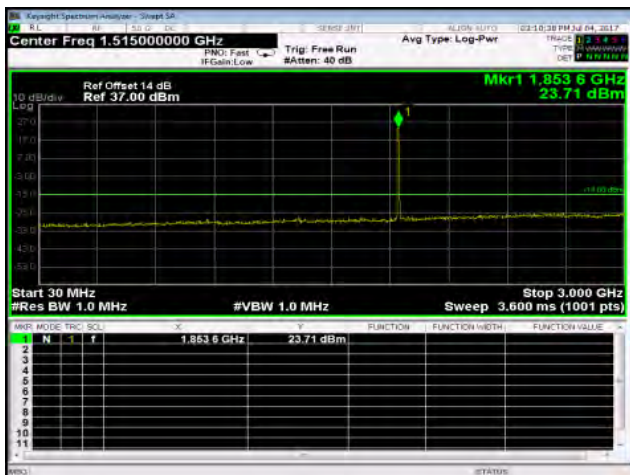
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Out of Band Emission Low_WCDMA_B2_HighCH9538-1907.6



Out of Band Emission Low_WCDMA_B2_LowCH9262-1852.4

Out of Band Emission High_WCDMA_B2_LowCH9262-1852.4



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Out of Band Emission Low_WCDMA_B5_MidCH4183-836.6



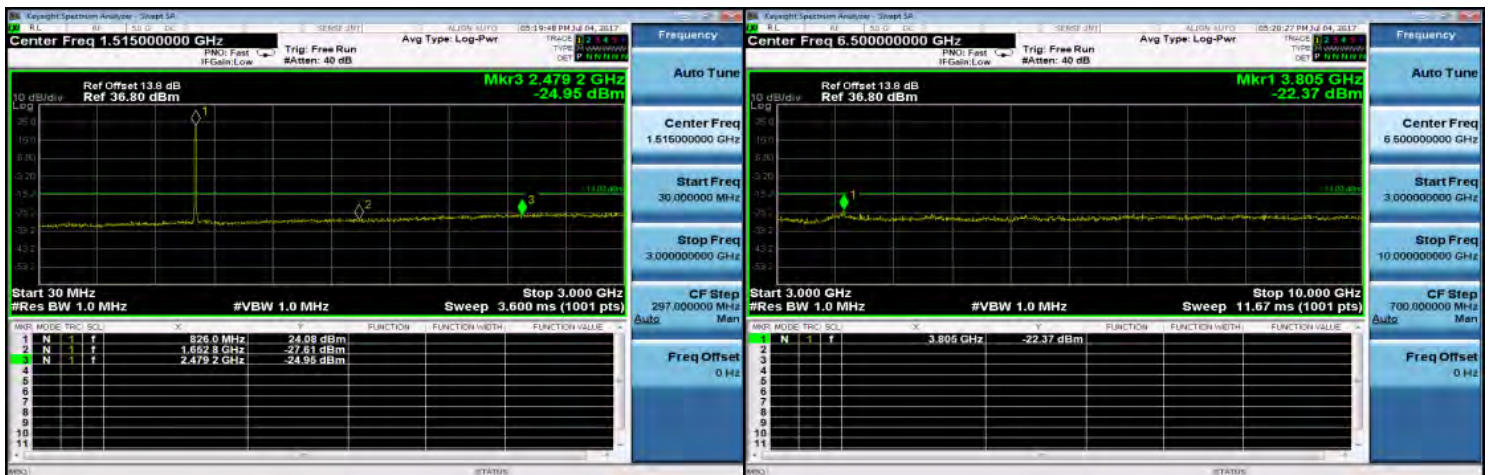
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Out of Band Emission Low_WCDMA_B5_HighCH4233-846.6



Out of Band Emission Low_WCDMA_B5_LowCH4132-826.4

Out of Band Emission High_WCDMA_B5_LowCH4132-826.4



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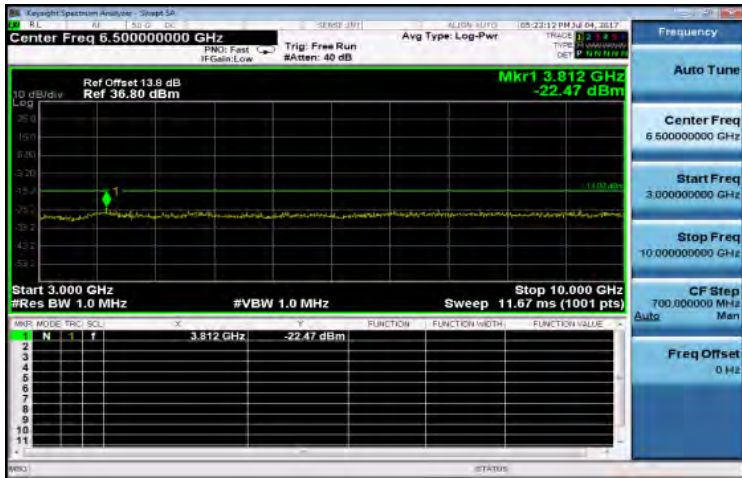
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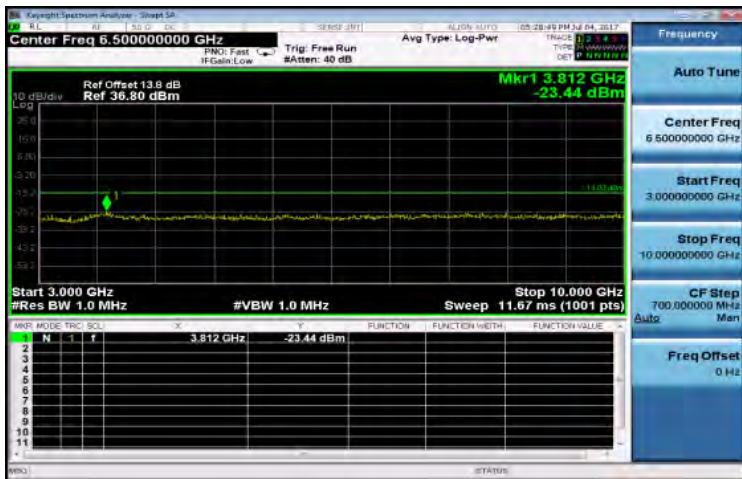
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Out of Band Emission High_WCDMA_B5_MidCH4183-836.6



Out of Band Emission High_WCDMA_B5_HighCH4233-846.6



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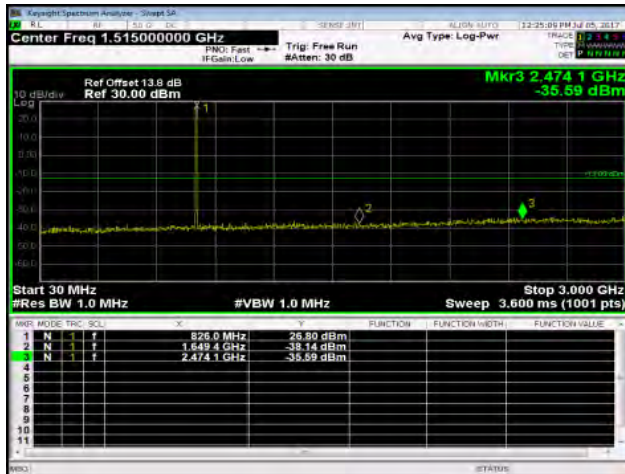
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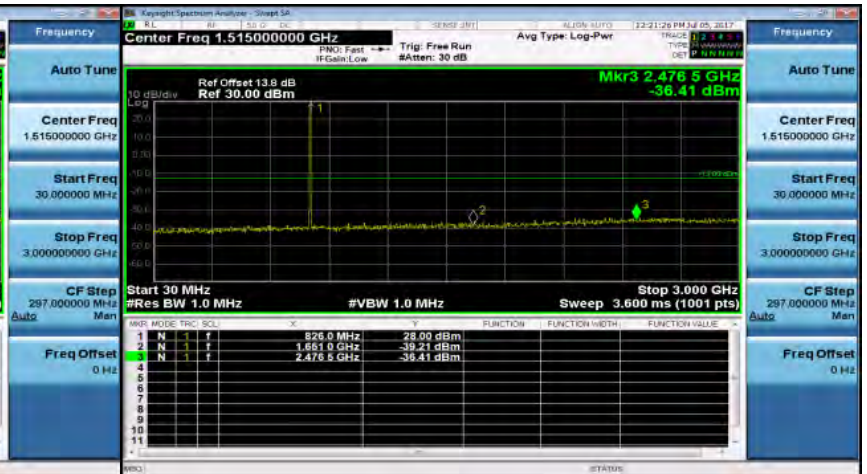
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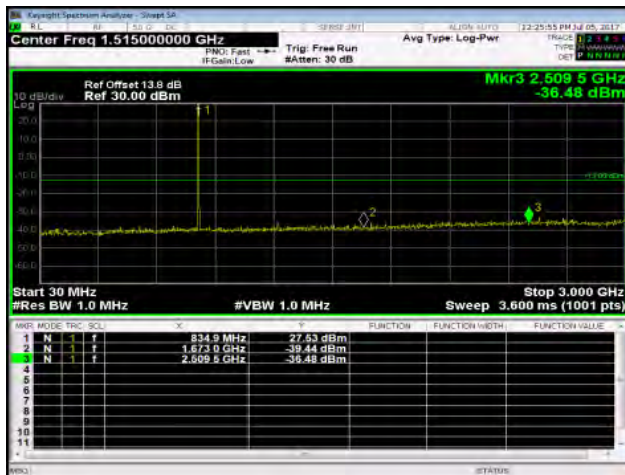
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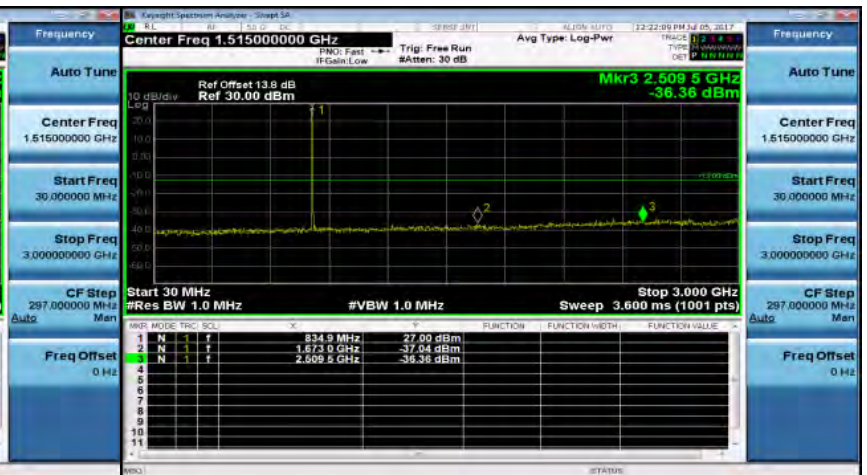
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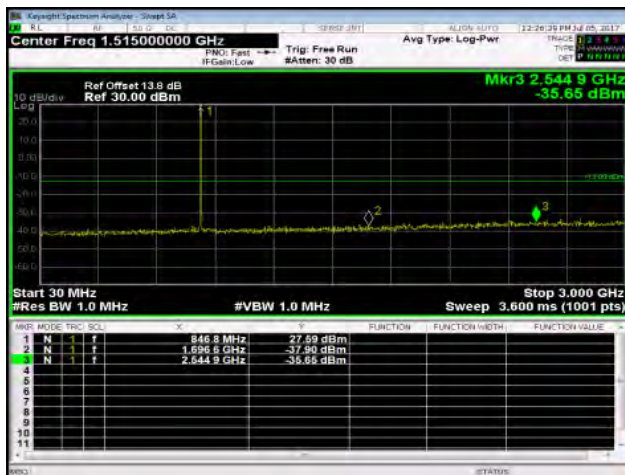
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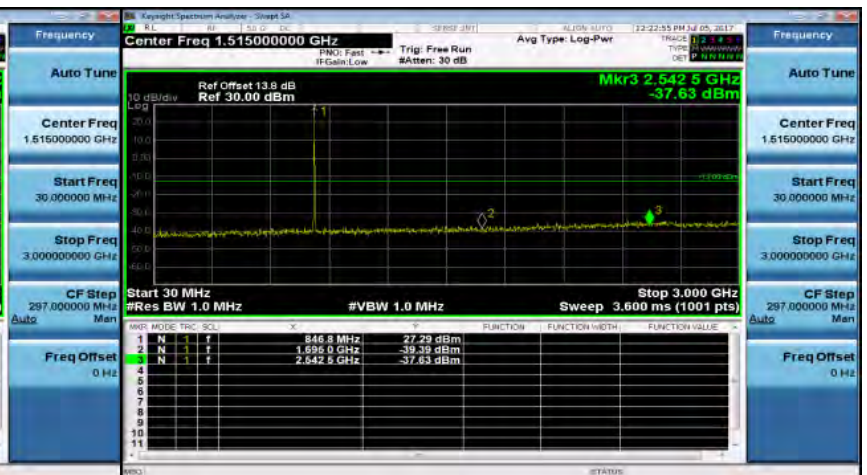
Out of Band Emission Low_Band5 3MHz_QPSK 1 0_MidCH20525-836.5



Out of Band Emission Low_Band5 1.4MHz_QPSK 1 0_HighCH20643-848.3



Out of Band Emission Low_Band5 3MHz_QPSK 1 0_HighCH20635-847.5



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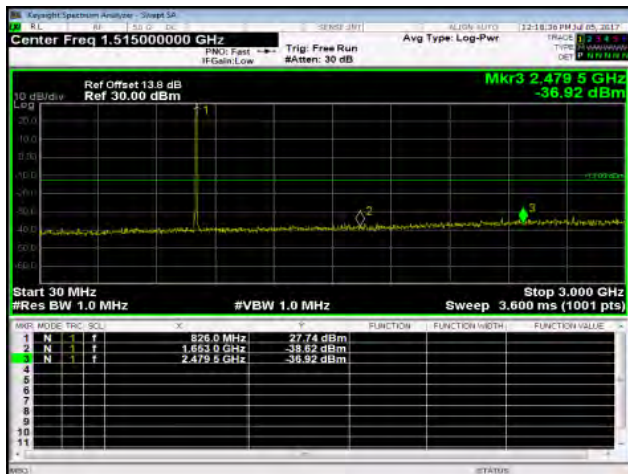
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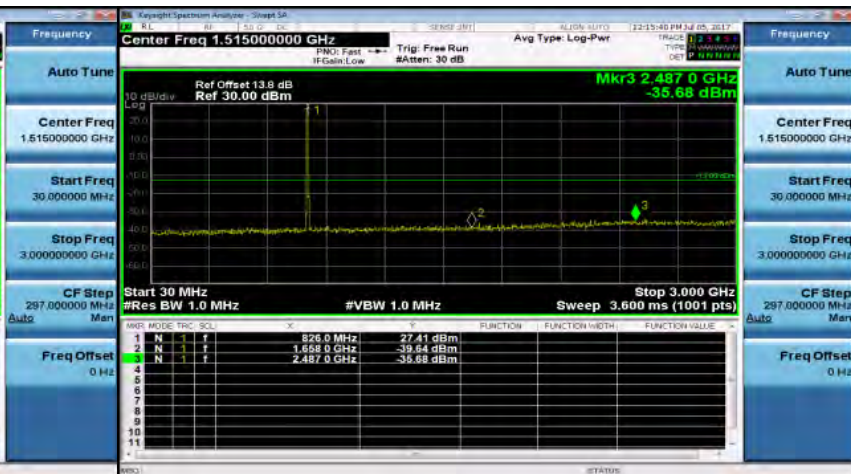
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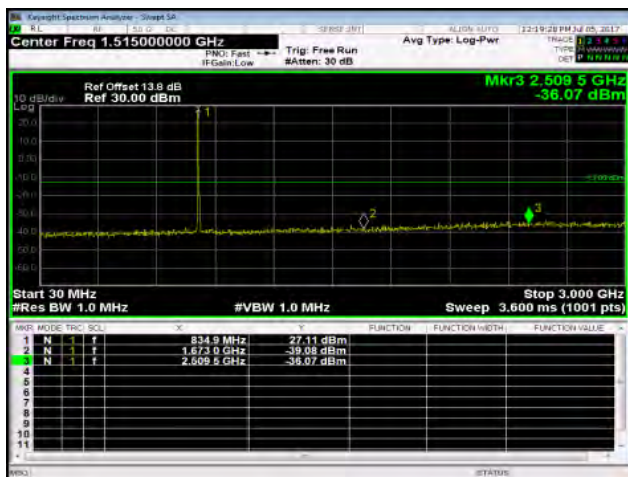
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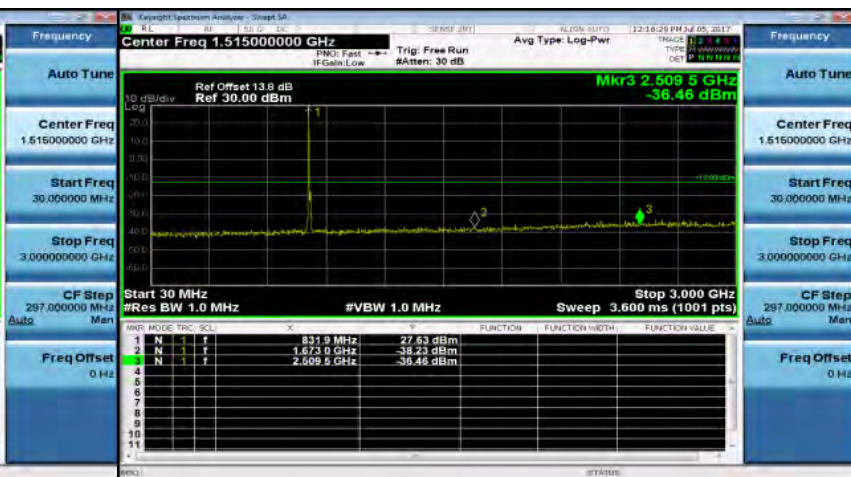
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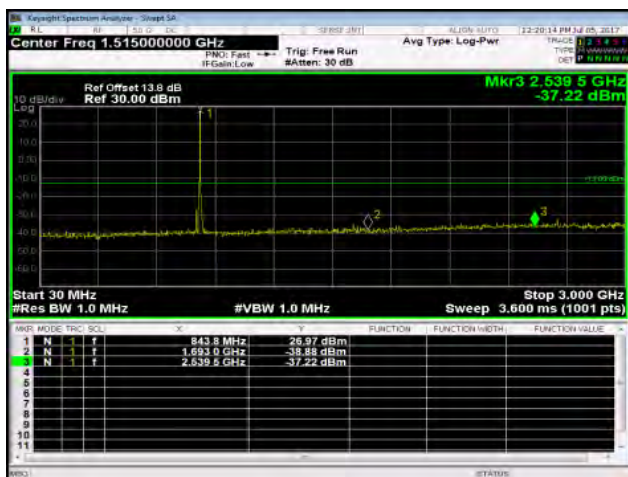
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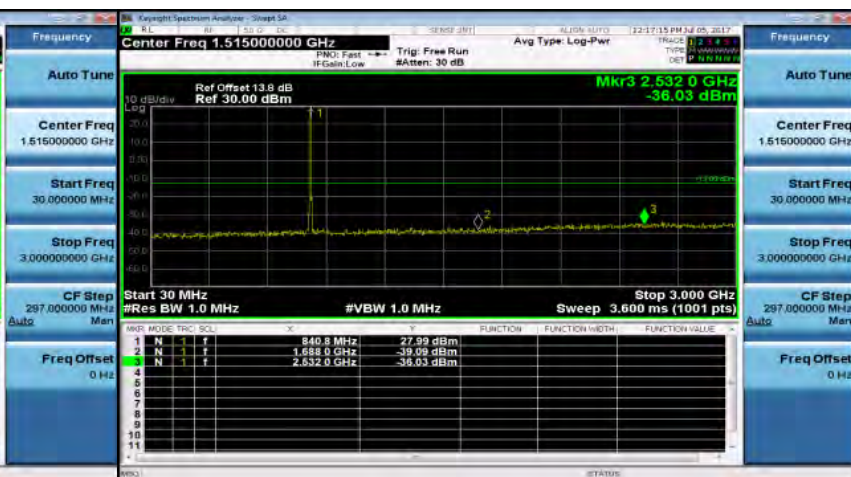
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Out of Band Emission Low_Band5 5MHz_QPSK 1 0_HighCH20625-846.5



Out of Band Emission Low_Band5 10MHz_QPSK 1 0_HighCH20600-844



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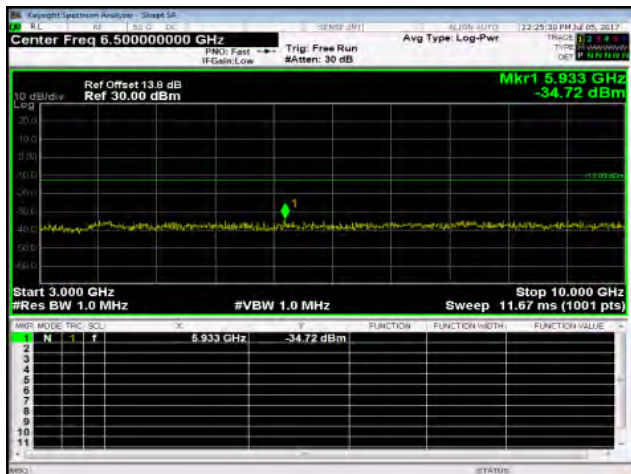
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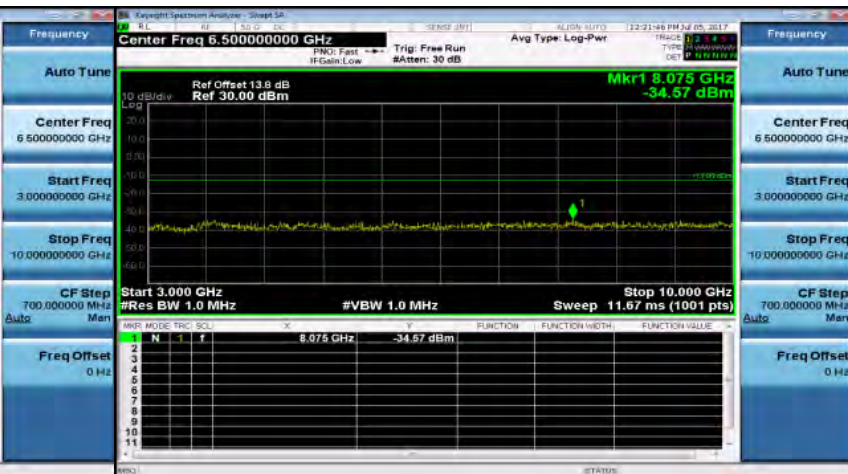
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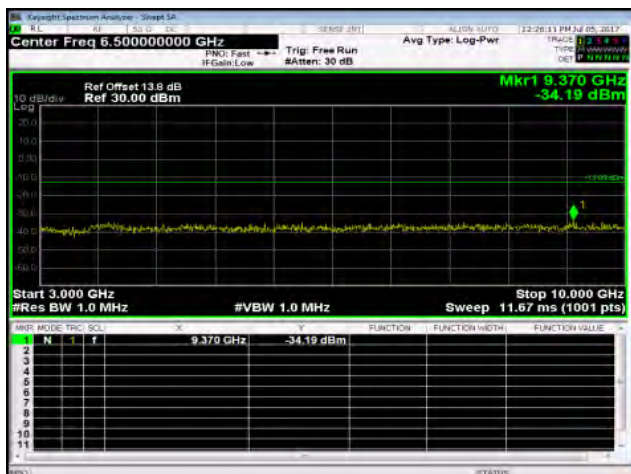
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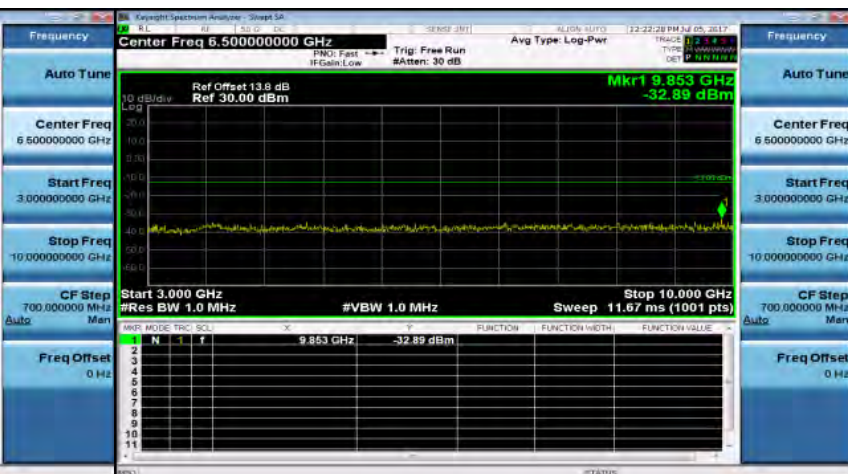
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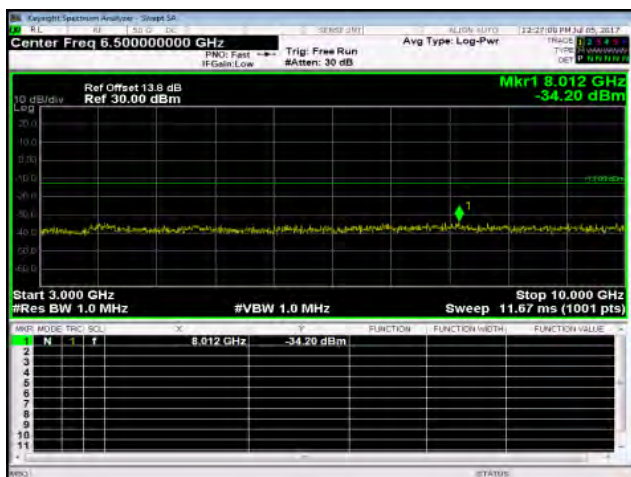
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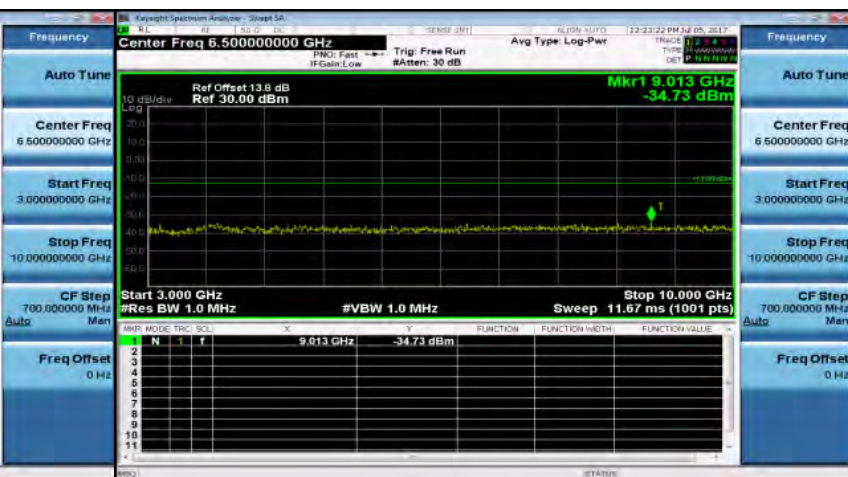
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Out of Band Emission High_Band5 3MHz_QPSK 1 0_HighCH20635-847.5



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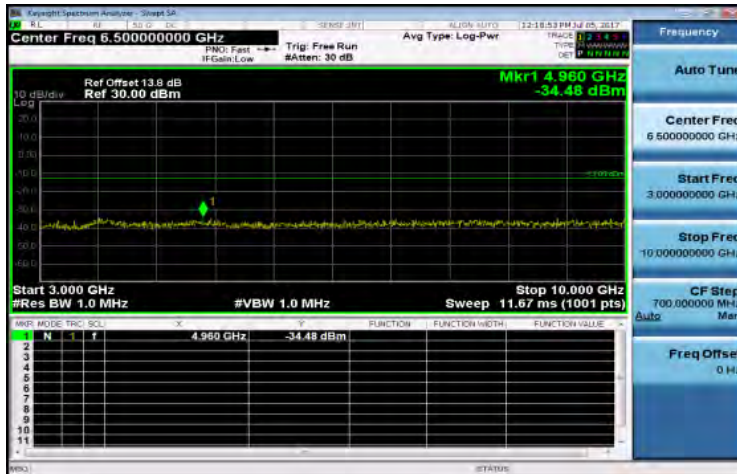
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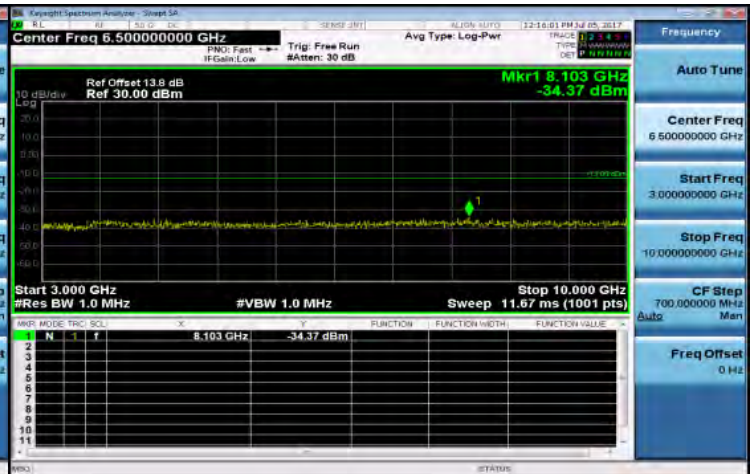
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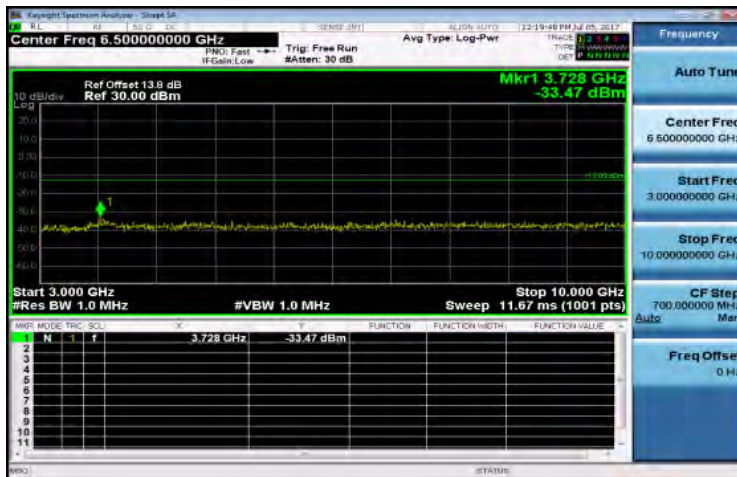
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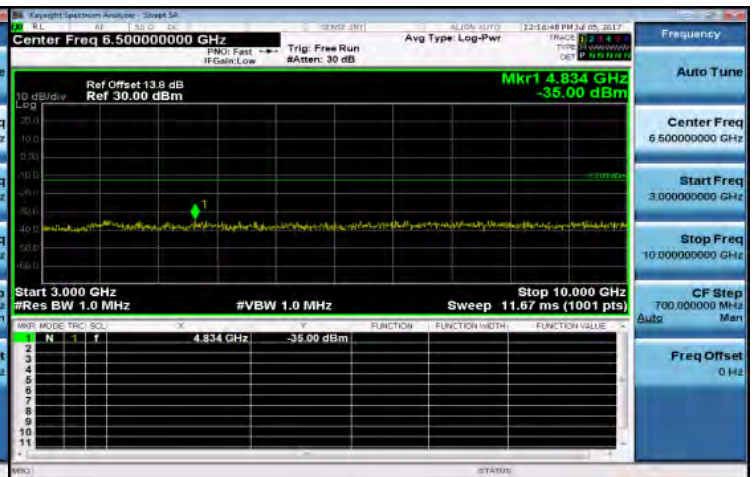
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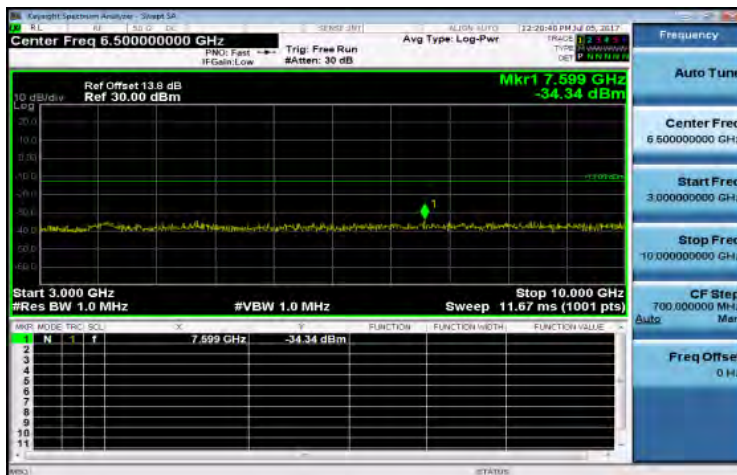
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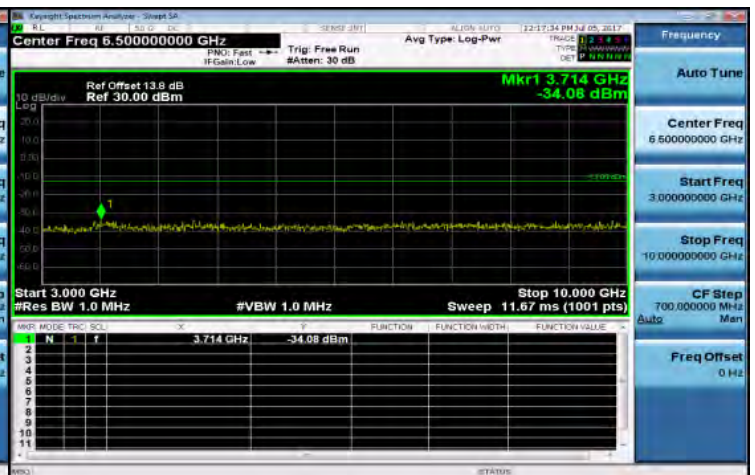
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Out of Band Emission High_Band5 10MHz_QPSK 1 0_HighCH20600-844



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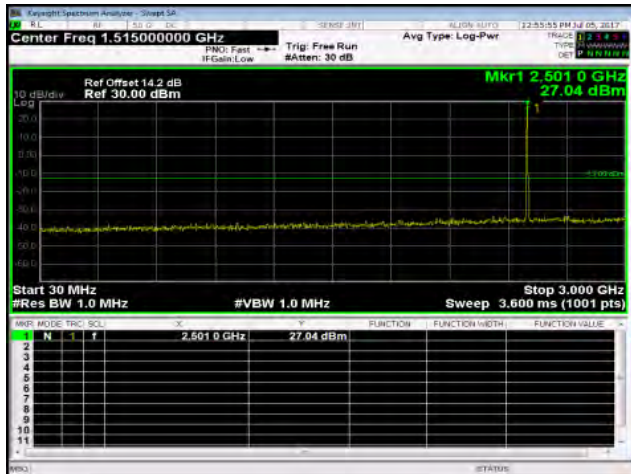
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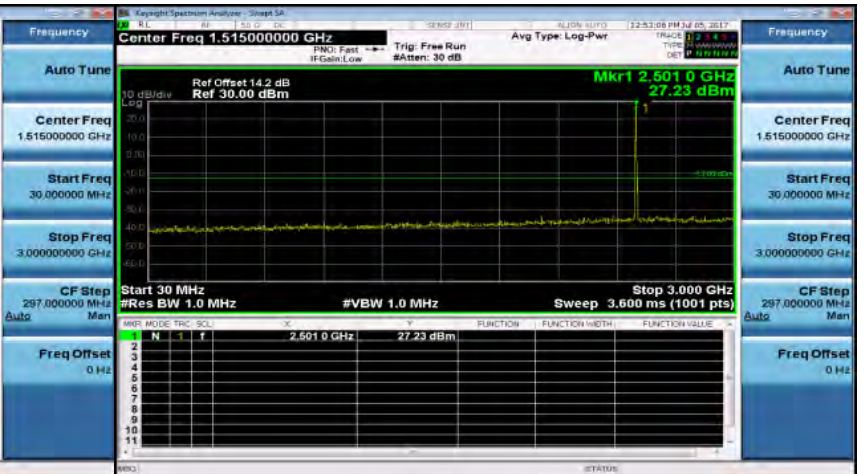
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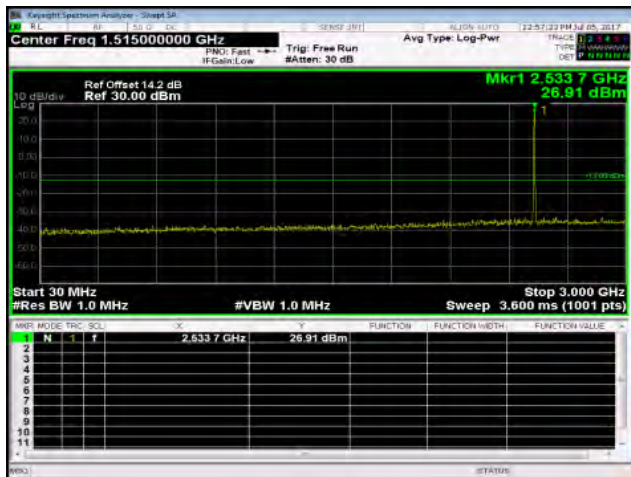
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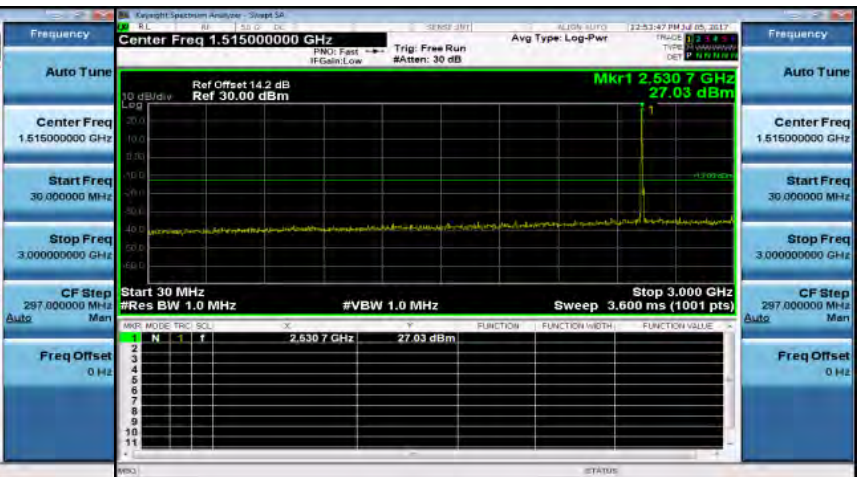
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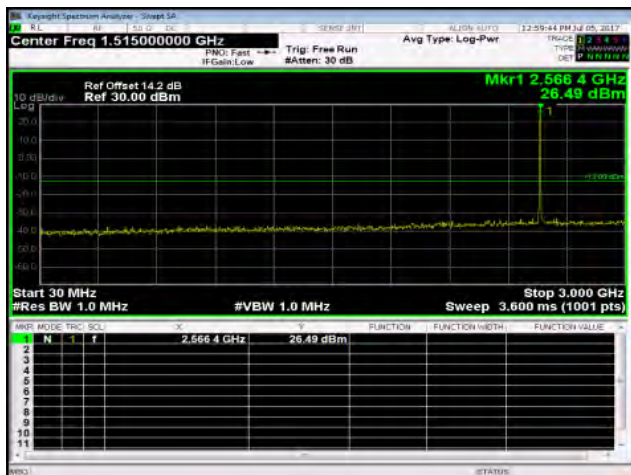
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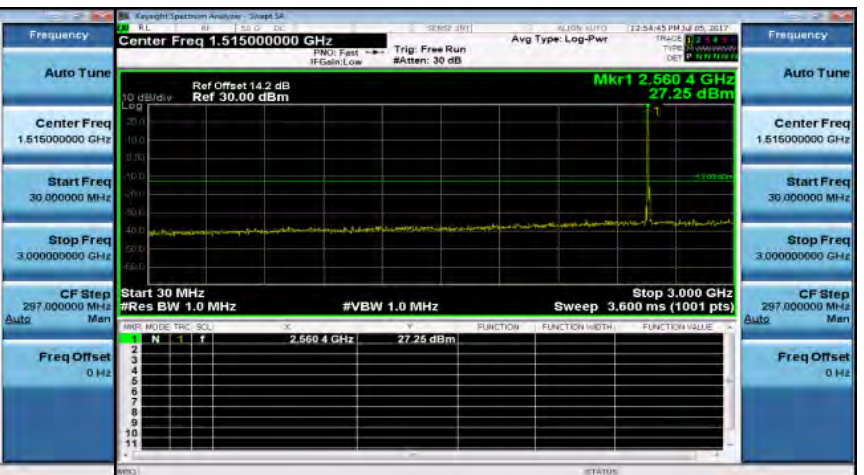
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Out of Band Emission Low_Band7 5MHz_QPSK 1 0_HighCH21425-2567.5



Out of Band Emission Low_Band7 10MHz_QPSK 1 0_HighCH21400-2565



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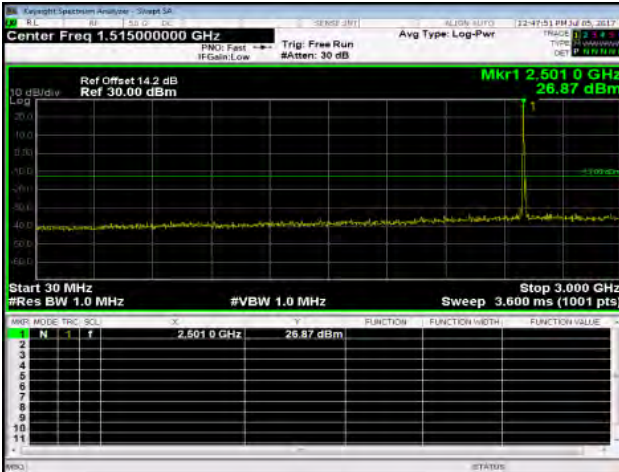
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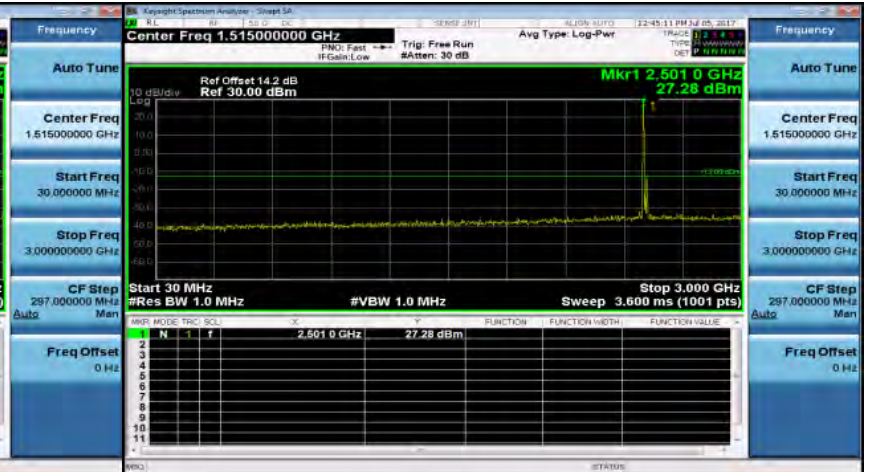
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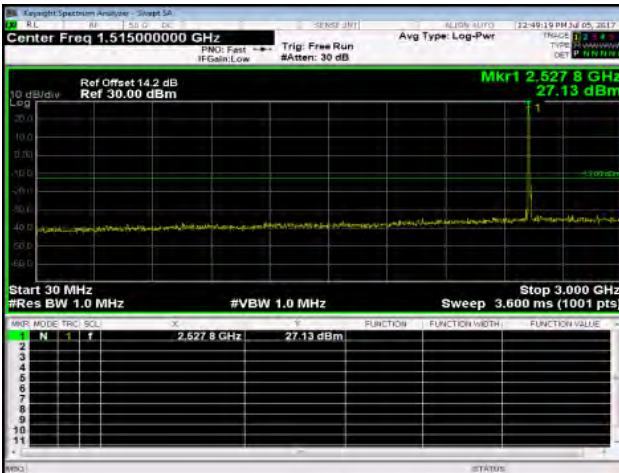
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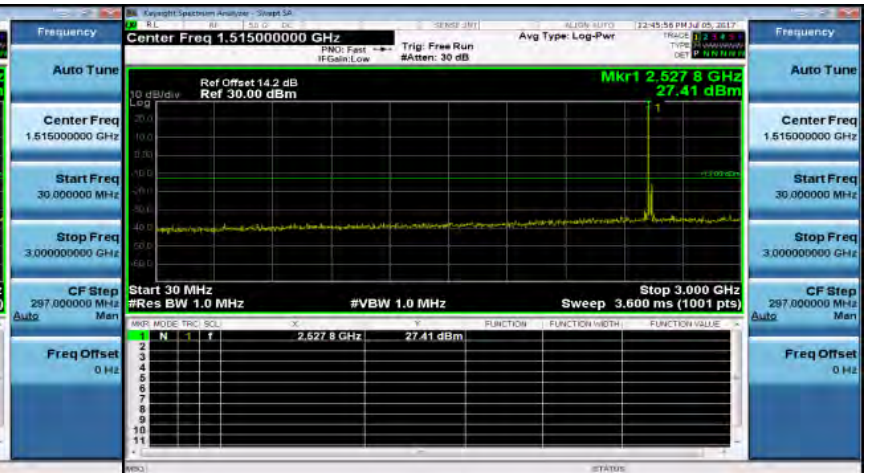
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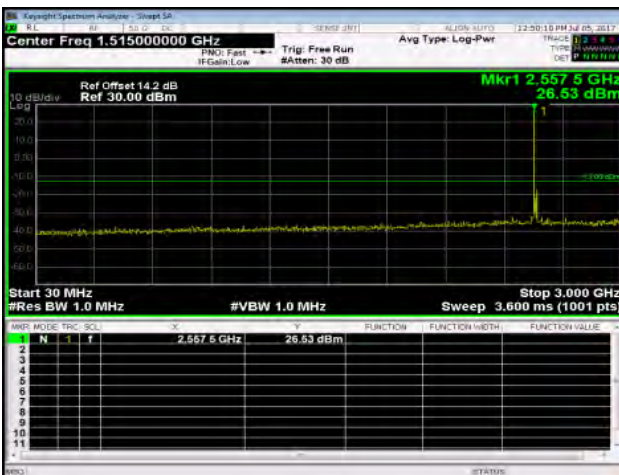
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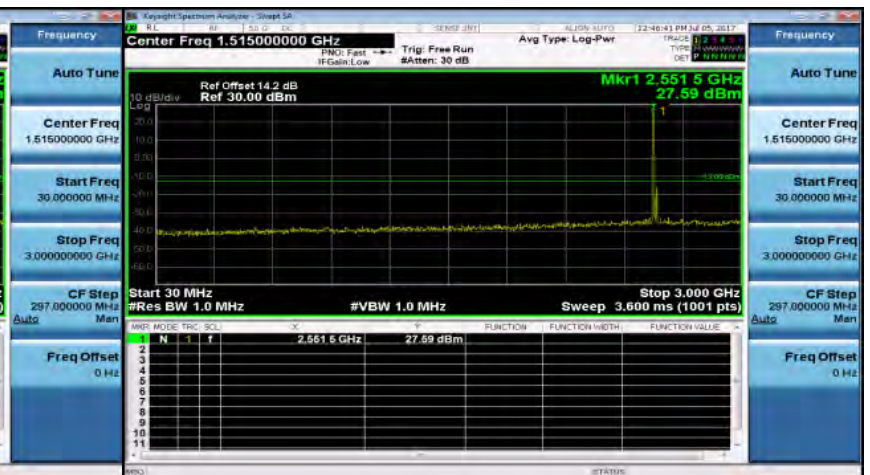
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Out of Band Emission Low_Band7 20MHz_QPSK 1 0_HighCH21350-2560



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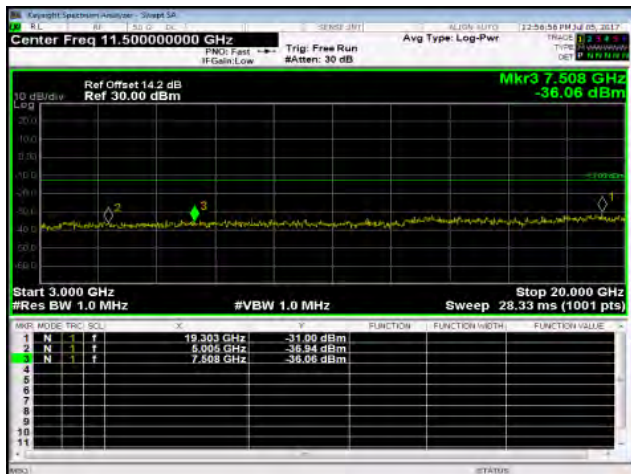
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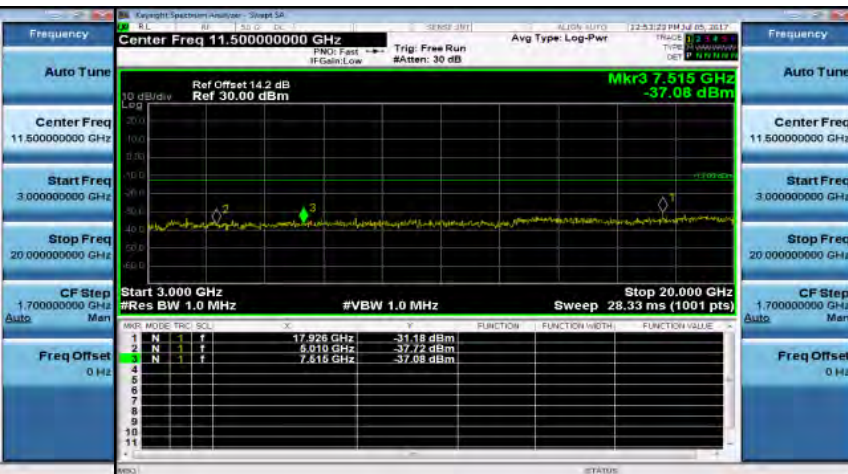
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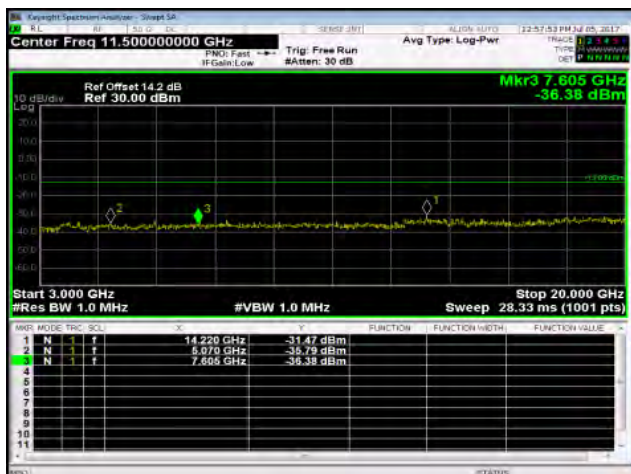
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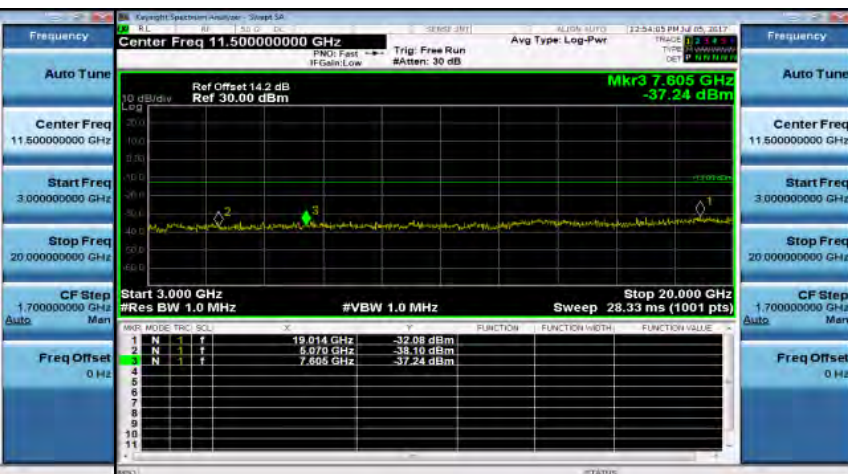
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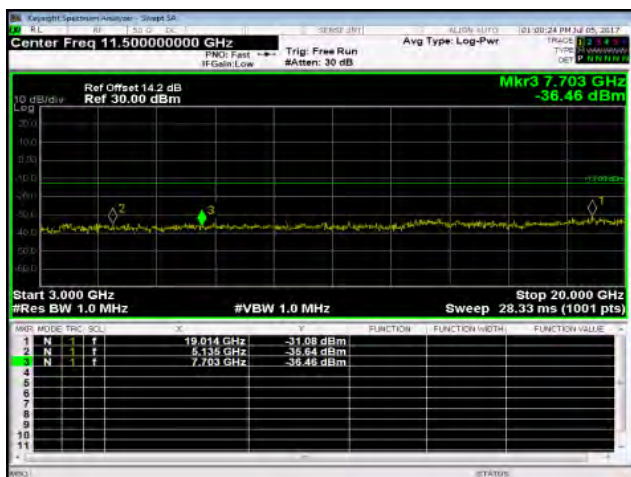
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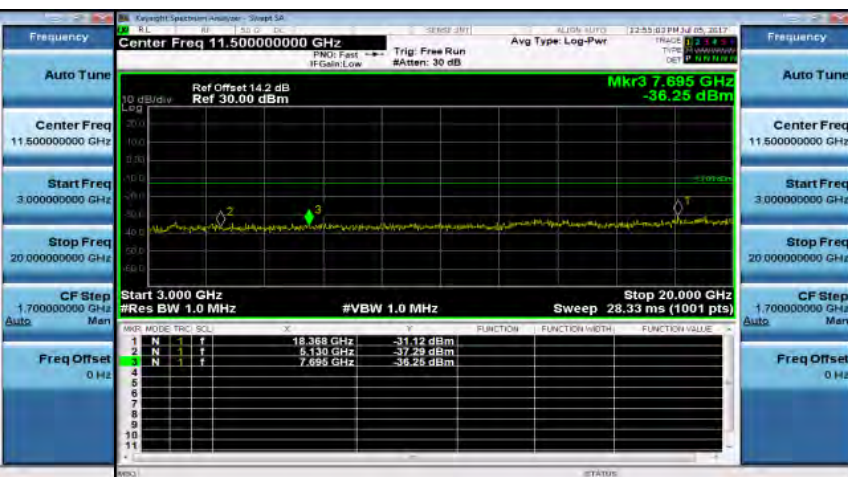
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Out of Band Emission High_Band7 5MHz_QPSK 1 0_HighCH21425-2567.5



Out of Band Emission High_Band7 10MHz_QPSK 1 0_HighCH21400-2565



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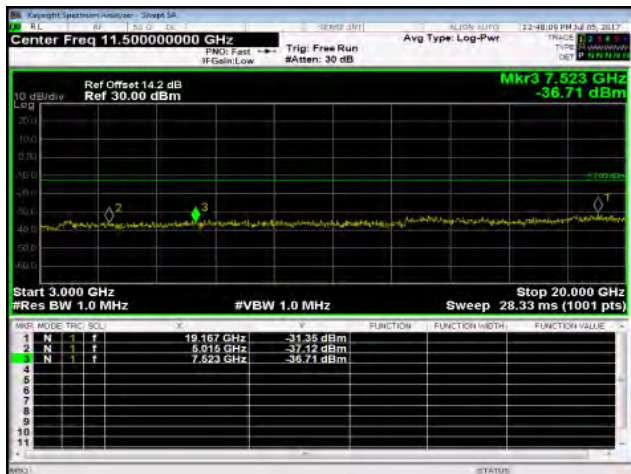
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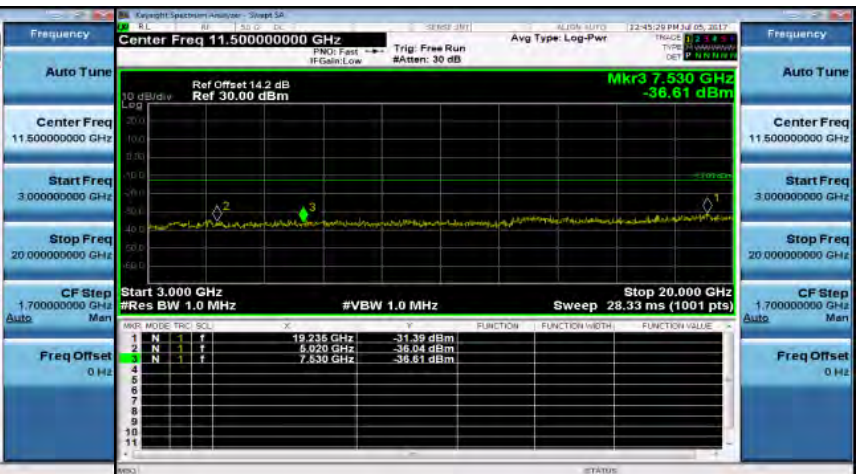
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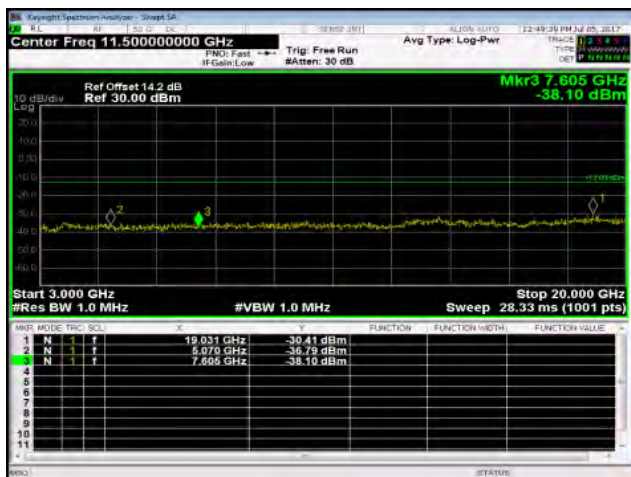
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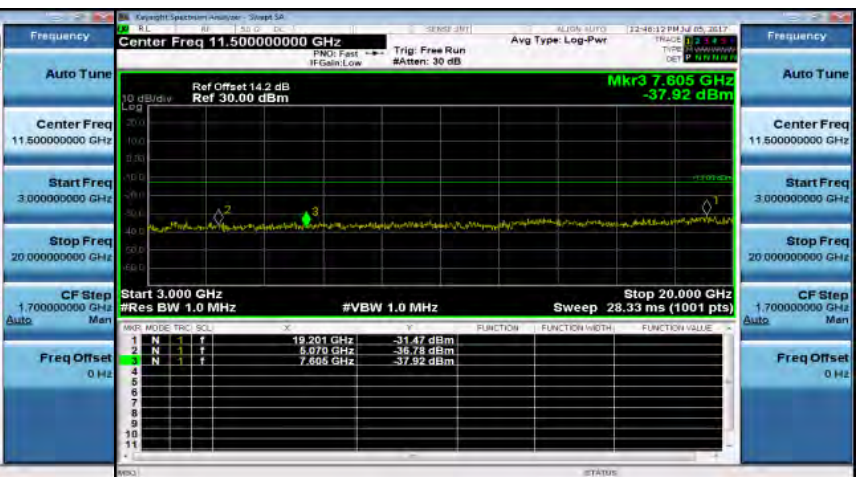
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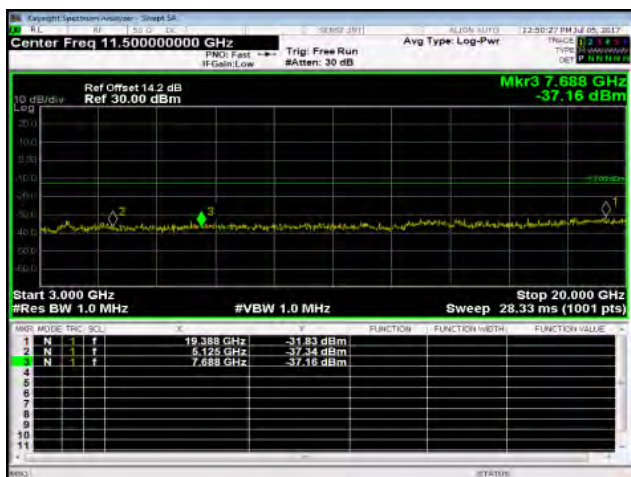
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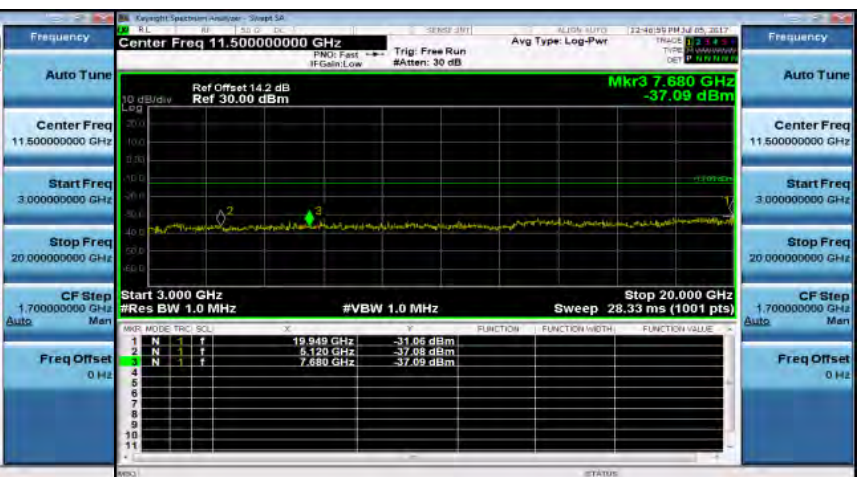
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Out of Band Emission High_Band7 15MHz_QPSK 1 0_HighCH21375-2562.5



Out of Band Emission High_Band7 20MHz_QPSK 1 0_HighCH21350-2560



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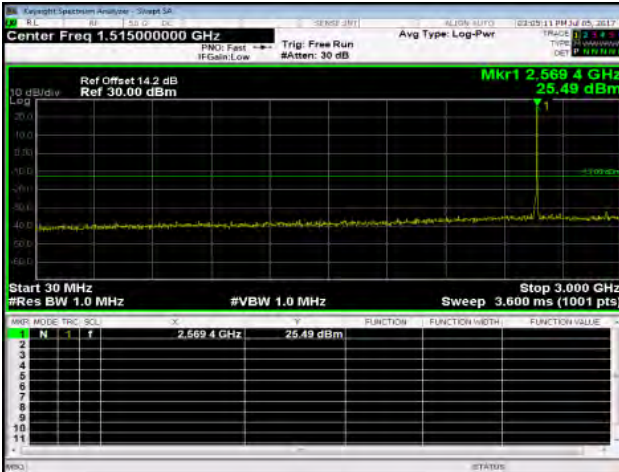
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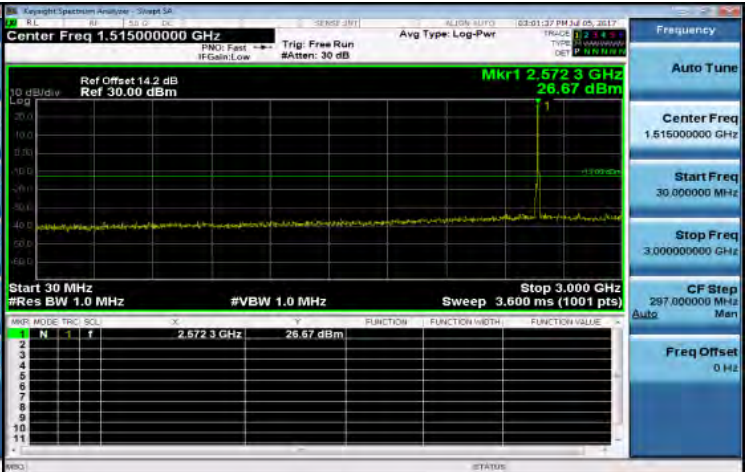
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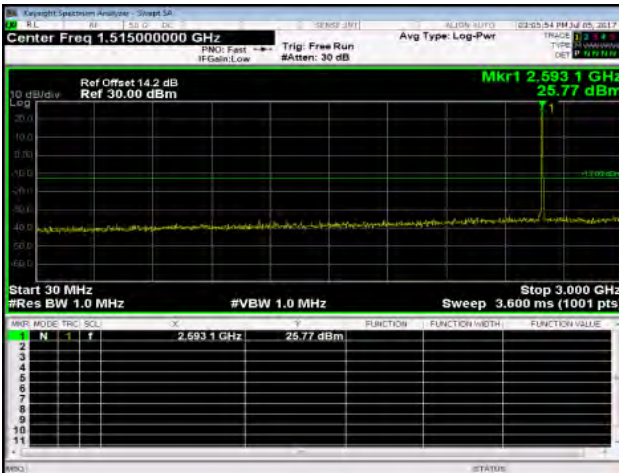
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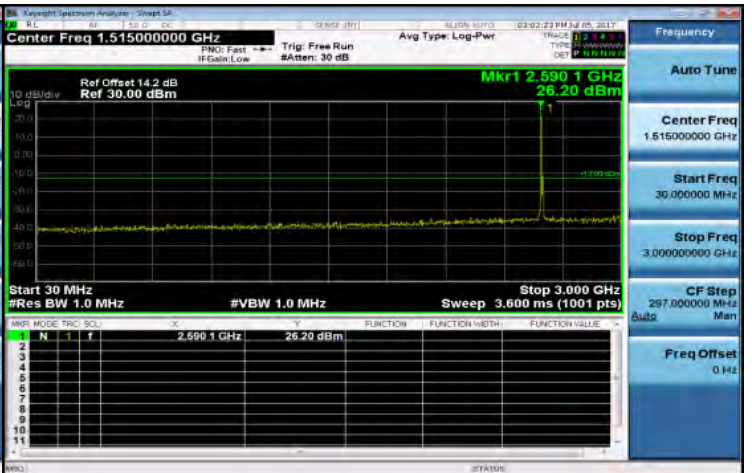
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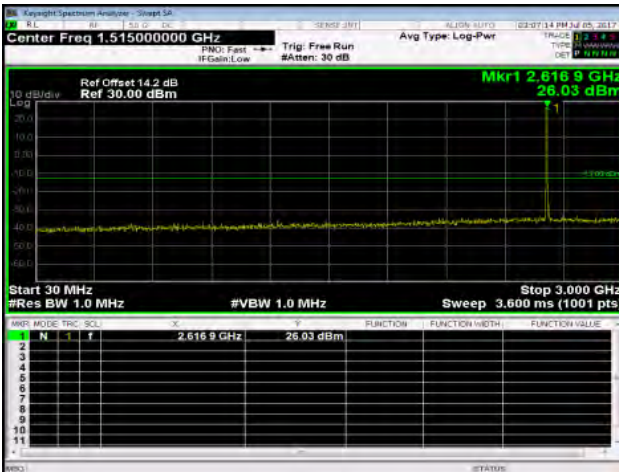
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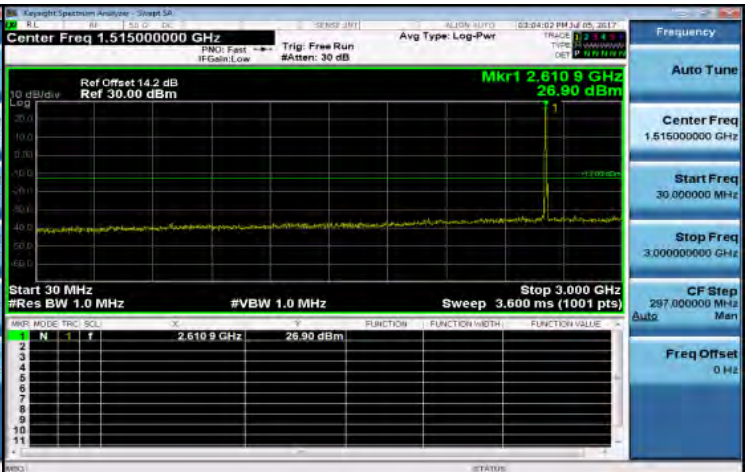
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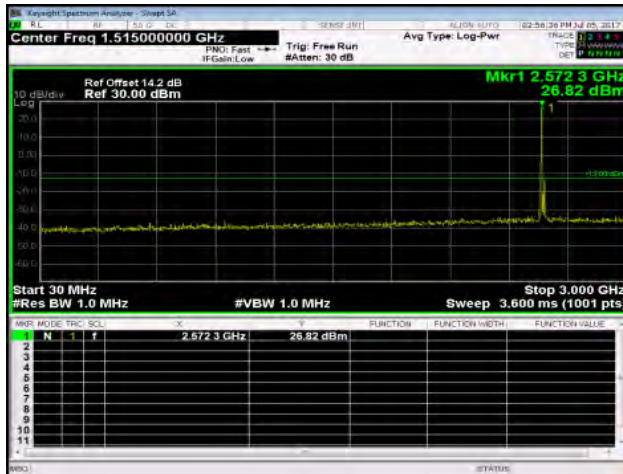
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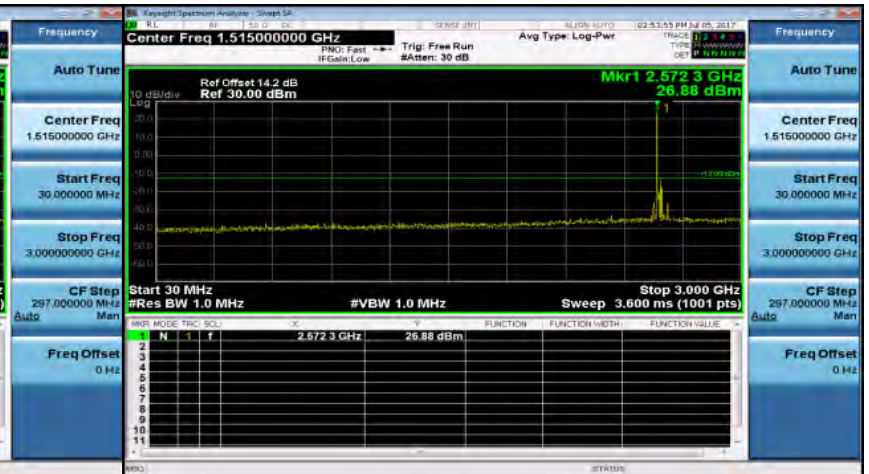
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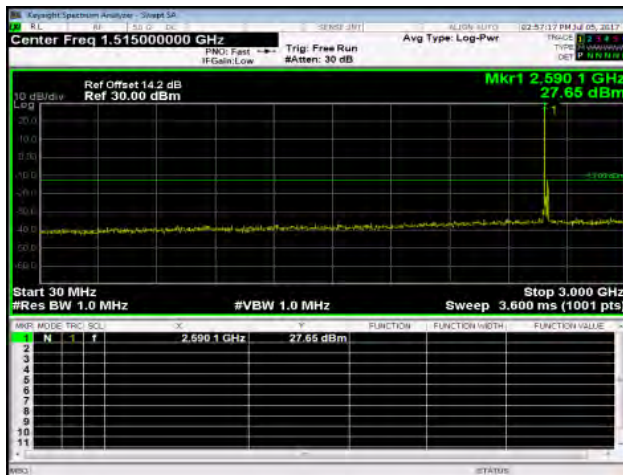
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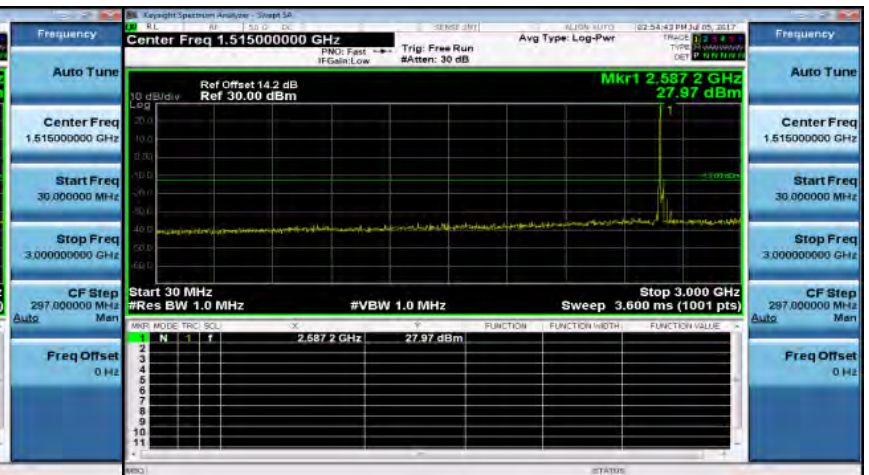
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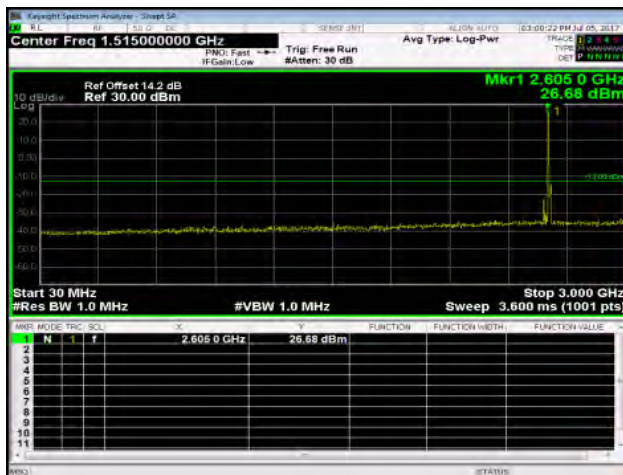
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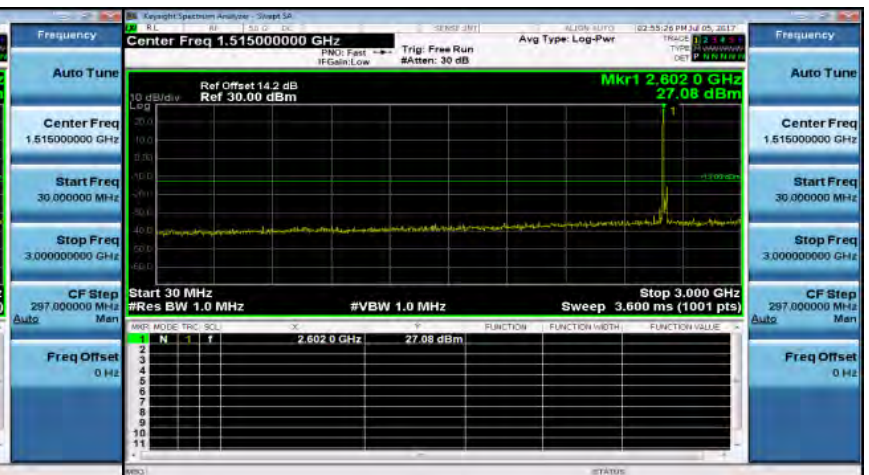
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Out of Band Emission Low_Band38 20MHz_QPSK 1 0_HighCH38150-2610



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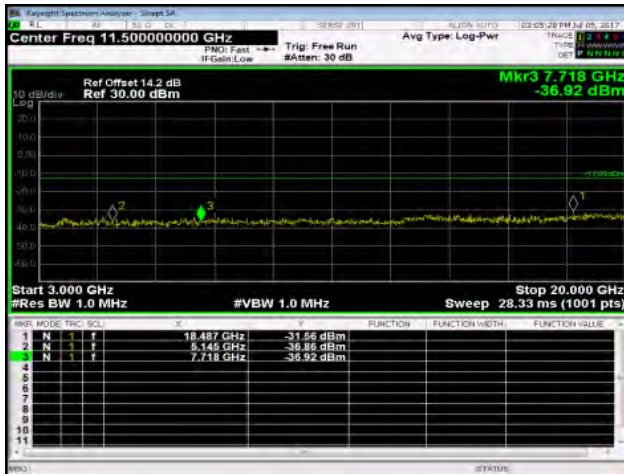
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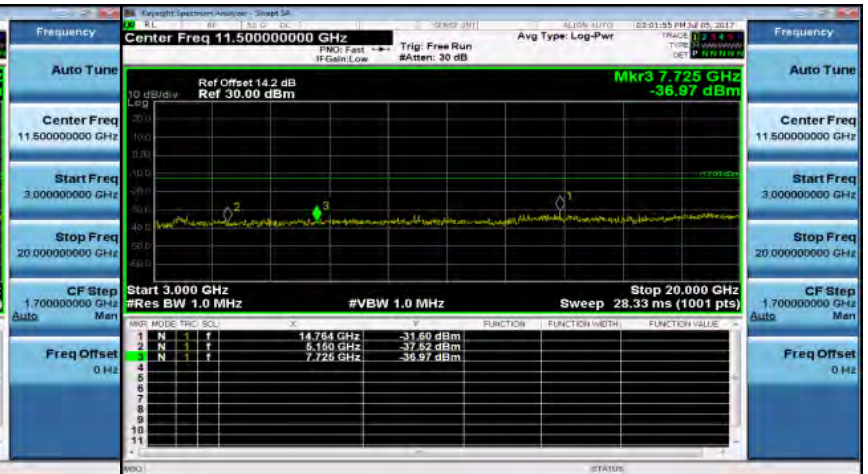
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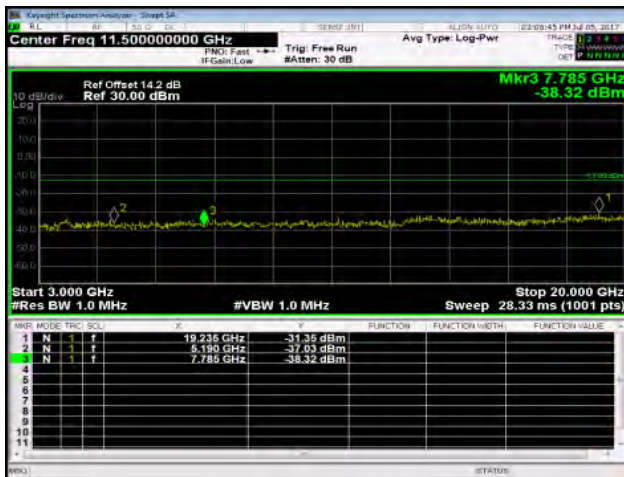
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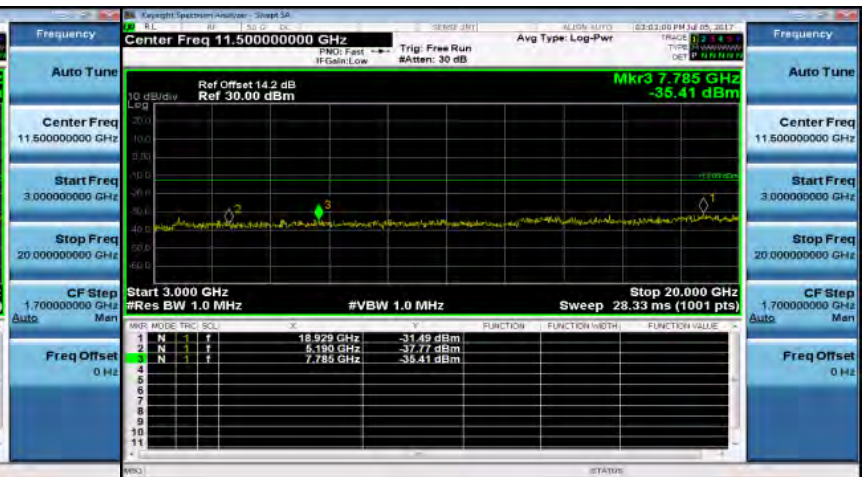
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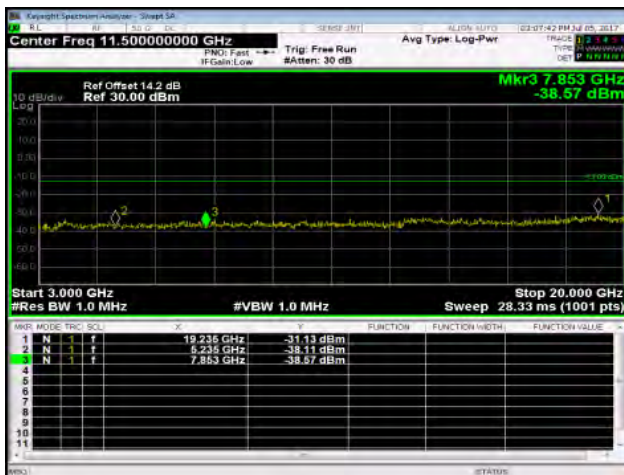
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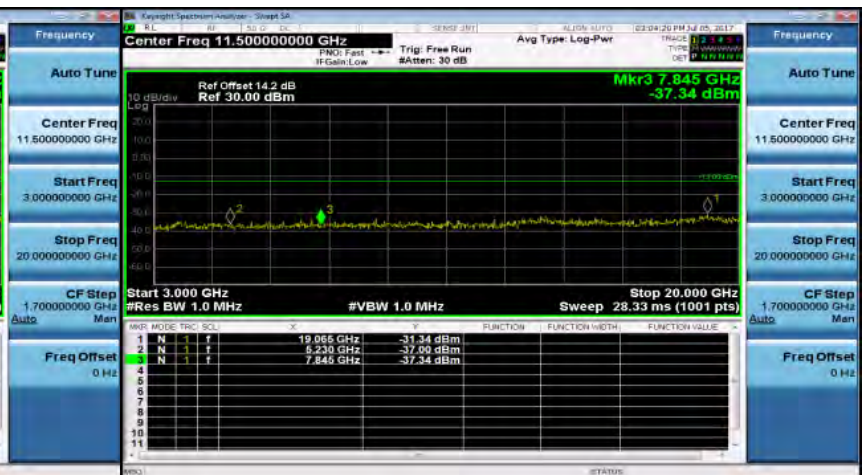
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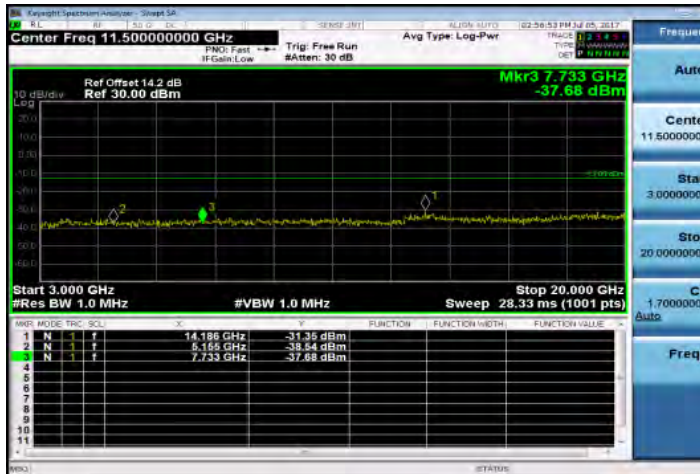
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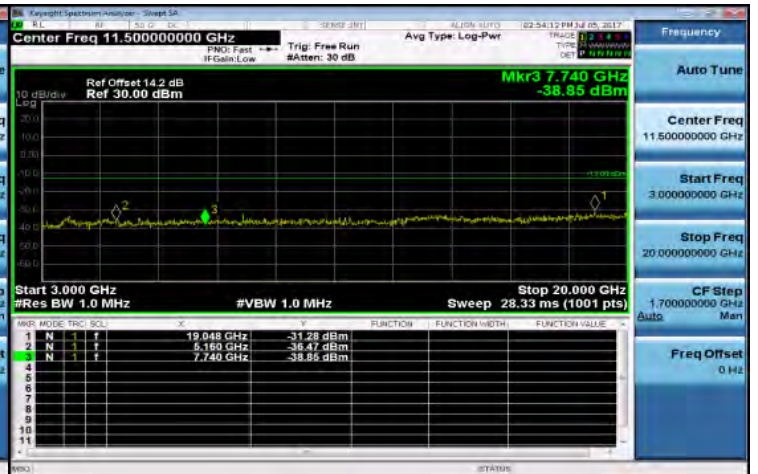
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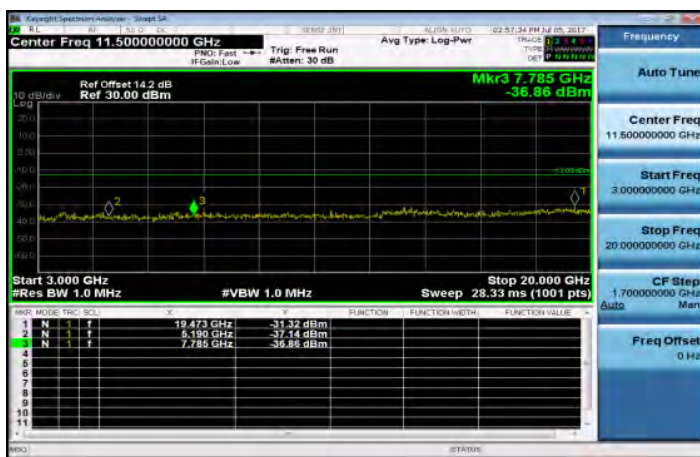
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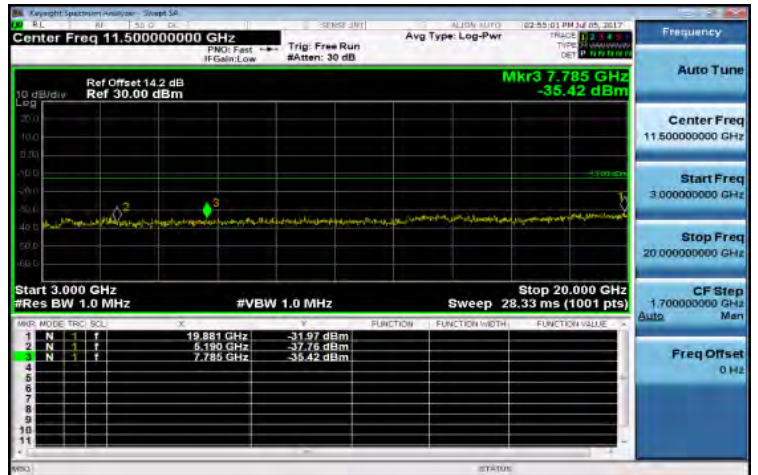
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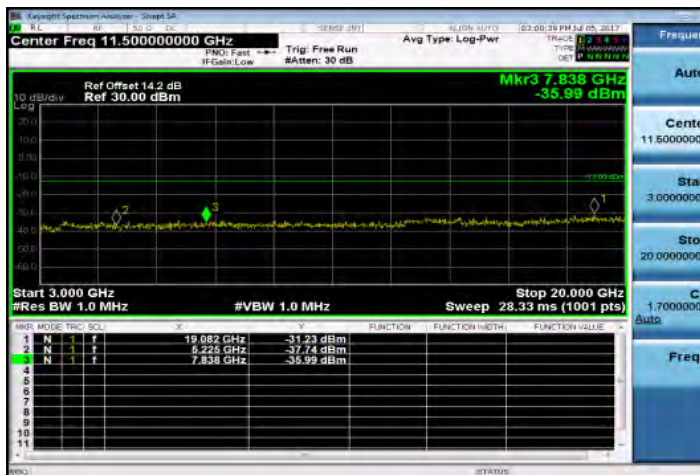
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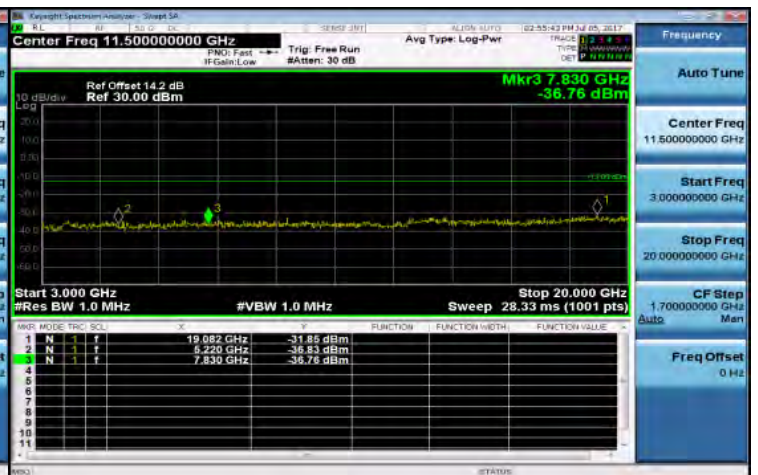
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Out of Band Emission High_Band38 20MHz_QPSK 1 0_HighCH38150-2610



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