

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 27 SUBPART B, C & SUBPART L and PART 90S REQUIREMENT

OF

Applicant: Huawei Technologies Co., Ltd.
Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

Product Name: Smart Phone

Brand Name: HUAWEI

Model No.: BLA-A09

Model Difference: N/A

FCC ID: QISBLA-A09

Report Number: ER/2017/B0215

FCC Rule Part: 2, 22H & 27B, C & L & 90S

Issue Date: Dec. 08, 2017

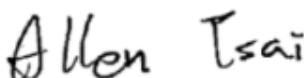
Date of Test: Nov. 16, 2017~ Dec. 01, 2017


Date of EUT Received: Nov. 16, 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 ANSI C63.10:2013 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.

Prepared By: 
Allen Tsai / Engineer

Approved By: 
Jim Chang / Asst. Manager



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Revision History

Report Number	Revision	Description	Issue Date
ER/2017/B0215	Rev.00	Initial creation of document	Dec. 08, 2017

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Smart Phone	
Brand Name:	HUAWEI	
Model No.:	BLA-A09	
Model Difference:	N/A	
Product SW/HW version:	N/A / N/A	
Power Supply:	3.82Vdc from Rechargeable Li-ion polymer Battery or 5Vdc from AC/DC Adapter	
	Battery:	Model No.: HB436486ECW, Supplier: HUAWEI
	Adapter:	Model No.:HW-050450U00, Supplier: HUAWEI

LTE:

Cellular Phone Standards Frequency Range and Power	Operating Frequency	
	LTE-Band 14 (5MHz)	790.5 MHz – 795.5 MHz
	LTE-Band 14 (10MHz)	793 MHz
	LTE-Band 18 (5MHz) (for Part 90S)	817.5 MHz – 821.5 MHz
	LTE-Band 18 (5MHz)	826.5 MHz – 827.5 MHz
IMEI:	866730030033604	

***Note:** BLA-A09 is subscriber equipment in the LTE/ WCDMA/GSM system. The LTE frequency band is Band 1,Band 2,Band 3,Band 4,Band 5, Band 7,Band 8, Band 12,Band14, Band 18 , Band 20, Band 28, Band 29, Band 30,Band 66,Band 46,and Band39.But only LTE Band 14/18 test data in this report.

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

LTE Band	BW (MHz)	Modulation	ERP (dBm)		(W)	Type of Emission
14	5	QPSK	14.64	ERP	0.029	4M96G7D
14	5	16QAM	13.86	ERP	0.024	4M53D7W
14	5	64QAM	13.83	ERP	0.024	4M54D7W
14	10	QPSK	14.58	ERP	0.029	8M92G7D
14	10	16QAM	13.80	ERP	0.024	8M96D7W
14	10	64QAM	13.96	ERP	0.025	8M96D7W
18 (part22)	5	QPSK	17.79	ERP	0.060	4M55G7D
18 (part22)	5	16QAM	17.39	ERP	0.055	4M53D7W
18 (part22)	5	64QAM	16.10	ERP	0.041	4M52D7W
18 (part90S)	5	QPSK	17.21	ERP	0.053	4M54G7D
18 (part90S)	5	16QAM	17.39	ERP	0.055	4M52D7W
18 (part90S)	5	64QAM	15.84	ERP	0.038	4M53D7W

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1.2. Test Methodology of Applied Standards

CC 47 CFR Part 2, 22, 27, Part 90S.

ANSI C63.26-2015

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.

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 / TW0001

1.4. Special Accessories

No special accessories were used during testing.

1.5. Equipment Modifications

There were no modifications incorporated into the EUT.

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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 ANSI C63.26-2015, 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 ANSI C63.26-2015, The EUT is a placed on as turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna 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 0.4 dB and 10 dB attenuator and 4 dB for splitter.

$$\text{Offset} = \text{RF cable loss (dB)} + \text{attenuation factor(dB)} = 0.4 + 14.0 = 14.4(\text{dB})$$

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 14_5M QPSK	3.82	0.52
LTE Band 14_5M 16QAM	3.82	0.55
LTE Band 14_5M 64QAM	3.82	0.52
LTE Band 14_10M QPSK	3.82	0.54
LTE Band 14_10M 16QAM	3.82	0.52
LTE Band 14_10M 64QAM	3.82	0.55
LTE Band 18_5M QPSK	3.82	0.5
LTE Band 18_5M 16QAM	3.82	0.49
LTE Band 18_5M 64QAM	3.82	0.48
LTE Band 18_5M QPSK (Part 90S)	3.82	0.49
LTE Band 18_5M 16QAM (Part 90S)	3.82	0.49
LTE Band 18_5M 64QAM (Part 90S)	3.82	0.48

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2.6. Configuration of Tested System

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

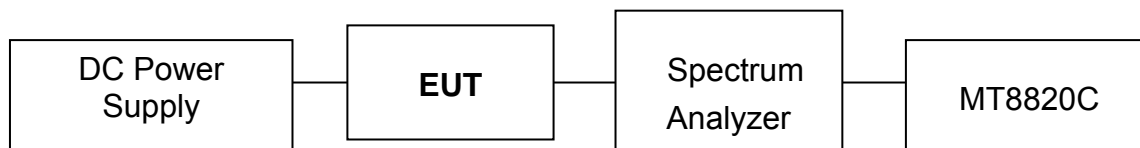
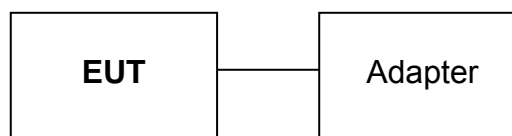


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side

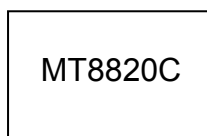


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
2.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	shielded	Un-shielded

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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) §27.50(c)(10) §90.635	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §27.53(g) §27.50(c)(5) §27.53(h) §90.691	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(f) §27.53(g) §27.53(h) §90.691(a)(1)(2)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.53(d) (5) §27.50(i) (B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §27.54 §90.213	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
LTE Band 14	H-plan	H-plan
LTE Band 18	H-plan	H-plan
LTE Band 18 for Part 90S	H-plan	H-plan

LTE Band 14 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23305 to 23355	23305, 23330, 23355	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	23330	23330	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23330	23330	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23305 to 23355	23305, 23330, 23355	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23330	23330	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	23305 to 23355	23305, 23330, 23355	5MHz	64QAM	Full RB
	23330	23330	10MHz	64QAM	Full RB
BAND EDGE	23305 to 23355	23305, 23330, 23355	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23330	23330	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23305 to 23355	23305, 23330, 23355	5MHz	QPSK,	1 RB, 0 RB Offest
	23330	23330	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23205 to 23255	23205, 23230, 23255	10MHz	QPSK	1 RB/ 0 RB Offest

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LTE Band 18 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23965 to 23975	23965, 23970, 23975	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
FREQUENCY STABILITY	23965 to 23975	23970	5MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23965 to 23975	23965, 23970, 23975	5MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	23965 to 23975	23965, 23970, 23975	5MHz	64QAM	Full RB
BAND EDGE	23965 to 23975	23965, 23975	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
CONDCUDED EMISSION	23965 to 23975	23965, 23970, 23975	5MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23965 to 23975	23965, 23970, 23975	5MHz	QPSK,	1 RB, 0 RB Offest

LTE Band 18 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23875 to 23915	23875, 23895, 23915	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
FREQUENCY STABILITY	23875 to 23915	23895	5MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23875 to 23915	23875, 23895, 23915	5MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	23875 to 23915	23875, 23895, 23915	5MHz	64QAM	Full RB
BAND EDGE	23875 to 23915	23875, 23915	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
CONDCUDED EMISSION	23875 to 23915	23875, 23895, 23915	5MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23875 to 23915	23875, 23895, 23915	5MHz	16QAM,	1 RB, 0.24 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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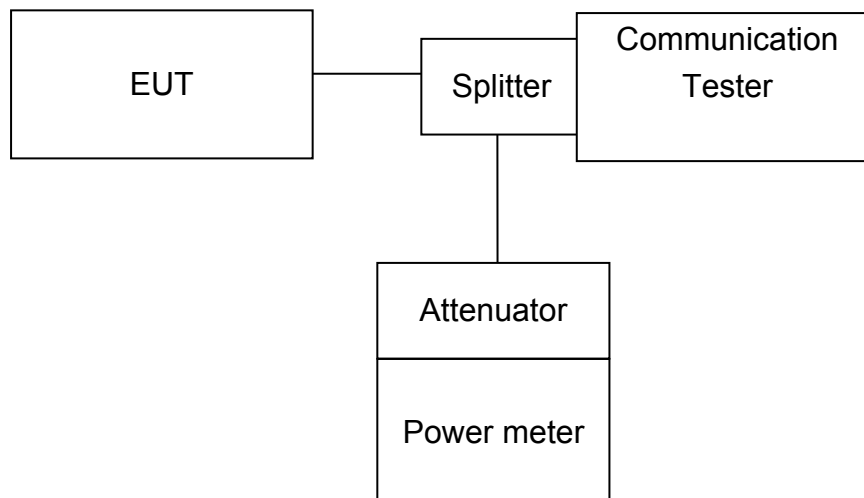
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

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, (WCD-MA/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	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	02/26/2017	02/25/2018
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018
Radio Communication Analyzer	R&S	CMU200	102189	02/10/2017	02/09/2018
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

6.5. Measurement Result

RF Conducted Output Power

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:

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LTE Result:

LTE Band 14

LTE Band 14_Uplink frequency band : 788 to 798 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 23305	CH (Mid) 23330	CH (High) 23355	CH (Low) 23305	CH (Mid) 23330	CH (High) 23355	CH (Low) 23305	CH (Mid) 23330	CH (High) 23355
5	1	0	23.3	23.35	22.83	21.97	21.21	21.44	21.74	21.35	21.91
	1	24	23.34	23.66	22.46	21.47	21.74	21.55	21.61	21.39	20.98
	12	6	21.64	21.58	21.6	21.39	21.12	21.26	21.29	21.14	21.55
	25	0	21.6	21.63	21.59	21.19	21.42	21.13	21.58	21.41	21.57

LTE Band 2_Uplink frequency band : 793 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 23330	CH (Mid) 23330	CH (High) 23330	CH (Low) 23330	CH (Mid) 23330	CH (High) 23330	CH (Low) 23330	CH (Mid) 23330	CH (High) 23330
10	1	0		22.31			22.05			21.78	
	1	49		22.42			22.01			21.65	
	25	12		21.67			21.25			21.63	
	50	0		21.65			21.41			20.6	

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LTE Band 18

LTE Band 18_Uplink frequency band : 815 to 830 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 23965	CH (Mid) 23970	CH (High) 23975	CH (Low) 23965	CH (Mid) 23970	CH (High) 23975	CH (Low) 23965	CH (Mid) 23970	CH (High) 23975
5	1	0	21.88	22.27	21.76	21.91	21.81	21.91	21.66	21.42	21.66
	1	24	21.95	21.87	21.75	21.74	21.98	21.74	21.83	21.58	21.83
	12	6	21.67	21.72	21.67	21.3	21.41	21.3	21.34	21.02	21.34
	25	0	21.72	22.09	21.72	21.39	21.32	21.39	21.16	21.29	21.16

LTE Band 18 (Part 90S)

LTE Band 18_Uplink frequency band : 815 to 830 MHz											
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)								
			QPSK			16QAM			64QAM		
			CH (Low) 23875	CH (Mid) 23895	CH (High) 23915	CH (Low) 23875	CH (Mid) 23895	CH (High) 23915	CH (Low) 23875	CH (Mid) 23895	CH (High) 23915
5	1	0	21.85	21.73	21.76	22	21.83	21.71	21.57	21.91	21.03
	1	24	21.96	21.97	21.75	21.98	21.74	21.53	21.54	21.18	21.08
	12	6	21.68	21.64	21.65	21.39	21.31	21.05	21.07	21.08	20.83
	25	0	21.76	21.59	21.68	21.34	21.19	21.01	21.02	21.24	21.17

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7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

7.1. Standard Applicable

According to FCC §2.1046

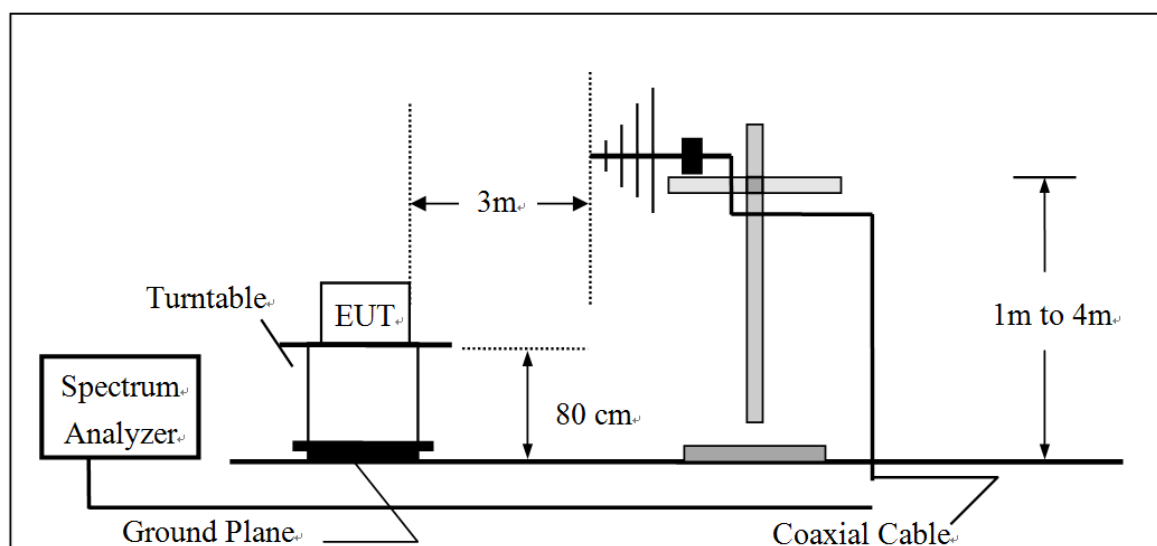
FCC 22.913(a) Mobile station is limited to 7W ERP.

FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

FCC 90.635(b) Mobile station is limited to 100W ERP

7.2. Test SET-UP

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



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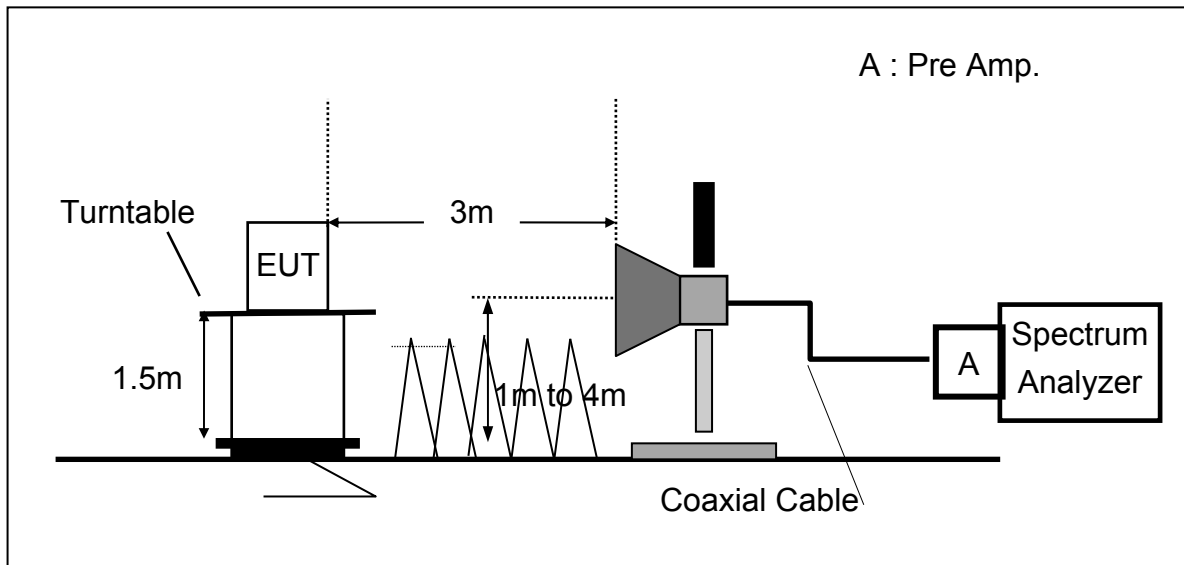
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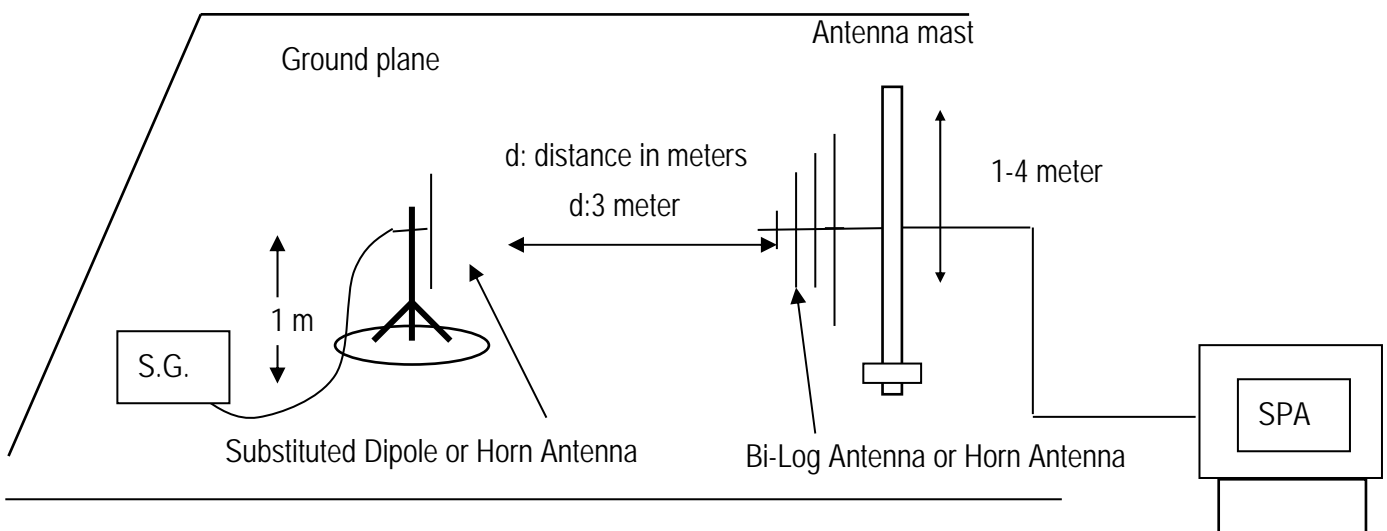
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(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 $\approx 1 \sim 5\%$ 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	09/20/2017	09/19/2018
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/04/2017	08/03/2018
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
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
LTE BAND 14 BW: 5M QPSK RB: 1,0	790.5	23305	V	11.67	3.31	-2.90	12.08	34.77
			H	7.77	3.31	-2.90	8.18	34.77
	793.0	23330	V	11.61	3.32	-2.90	12.04	34.77
			H	7.48	3.32	-2.90	7.90	34.77
	795.5	23355	V	12.49	3.33	-2.90	12.92	34.77
			H	8.47	3.33	-2.90	8.90	34.77
LTE BAND 14 BW: 5M QPSK RB: 1,24	790.5	23305	V	11.75	3.31	-2.90	12.17	34.77
			H	7.46	3.31	-2.90	7.87	34.77
	793.0	23330	V	13.49	3.33	-2.90	13.92	34.77
			H	9.02	3.32	-2.90	9.44	34.77
	795.5	23355	V	14.21	3.33	-2.90	14.64	34.77
			H	9.69	3.33	-2.90	10.12	34.77
LTE BAND 14 BW: 5M 16QAM RB: 1,0	790.5	23305	V	11.05	3.31	-2.90	11.46	34.77
			H	7.47	3.31	-2.90	7.87	34.77
	793.0	23330	V	11.13	3.32	-2.90	11.55	34.77
			H	6.85	3.31	-2.90	7.25	34.77
	795.5	23355	V	12.02	3.33	-2.90	12.45	34.77
			H	7.72	3.32	-2.90	8.14	34.77
LTE BAND 14 BW: 5M 16QAM RB: 1,24	790.5	23305	V	11.51	3.31	-2.90	11.93	34.77
			H	7.52	3.31	-2.90	7.93	34.77
	793.0	23330	V	12.99	3.33	-2.90	13.42	34.77
			H	8.65	3.32	-2.90	9.07	34.77
	795.5	23355	V	13.43	3.33	-2.90	13.86	34.77
			H	9.01	3.33	-2.90	9.43	34.77
LTE BAND 14 BW: 5M 64QAM RB: 1,0	790.5	23305	V	11.71	3.31	-2.90	12.11	34.77
			H	5.47	3.31	-2.90	5.88	34.77
	793.0	23330	V	11.31	3.32	-2.90	11.73	34.77
			H	5.12	3.32	-2.90	5.54	34.77
	795.5	23355	V	12.10	3.32	-2.90	12.52	34.77
			H	5.93	3.32	-2.90	6.35	34.77
LTE BAND 14 BW: 5M 64QAM RB: 1,24	790.5	23305	V	12.05	3.31	-2.90	12.47	34.77
			H	5.63	3.32	-2.90	6.04	34.77
	793.0	23330	V	13.16	3.32	-2.90	13.58	34.77
			H	6.61	3.32	-2.90	7.03	34.77
	795.5	23355	V	13.39	3.34	-2.90	13.83	34.77
			H	7.02	3.33	-2.90	7.45	34.77

Remark :

(1)The RBW,VBW of SPA for frequency RBW= 8MHz , 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
LTE BAND 14 BW: 10M QPSK RB: 1,0	793.0	23330	V	11.18	3.31	-2.90	11.59	34.77
			H	7.36	3.31	-2.90	7.77	34.77
LTE BAND 14 BW: 10M QPSK RB: 1,49	793.0	23330	V	14.15	3.33	-2.90	14.58	34.77
			H	9.59	3.33	-2.90	10.02	34.77
LTE BAND 14 BW: 10M 16QAM RB: 1,0	793.0	23330	V	11.12	3.31	-2.90	11.53	34.77
			H	7.30	3.31	-2.90	7.71	34.77
LTE BAND 14 BW: 10M 16QAM RB: 1,49	793.0	23330	V	13.37	3.33	-2.90	13.80	34.77
			H	9.03	3.33	-2.90	9.46	34.77
LTE BAND 14 BW: 10M 64QAM RB: 1,0	793.0	23330	V	12.02	3.31	-2.90	12.43	34.77
			H	4.66	3.32	-2.90	5.07	34.77
LTE BAND 14 BW: 10M 64QAM RB: 1,49	793.0	23330	V	13.53	3.33	-2.90	13.96	34.77
			H	6.33	3.33	-2.90	6.76	34.77

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , 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
LTE BAND 18 BW: 5M QPSK RB: 1,0	826.5	23965	V	17.42	3.3	-2.93	17.79	38.45
			H	12.39	3.31	-2.92	12.78	38.45
	827.0	23970	V	16.68	3.3	-2.93	17.05	38.45
			H	12.39	3.3	-2.93	12.76	38.45
	827.5	23975	V	16.53	3.3	-2.93	16.9	38.45
			H	12.27	3.3	-2.93	12.64	38.45
LTE BAND 18 BW: 5M QPSK RB: 1,5	826.5	23965	V	16.63	3.31	-2.92	17.01	38.45
			H	12.3	3.31	-2.92	12.68	38.45
	827.0	23970	V	16.45	3.31	-2.92	16.83	38.45
			H	12.34	3.3	-2.93	12.71	38.45
	827.5	23975	V	16.44	3.3	-2.93	16.82	38.45
			H	12.07	3.3	-2.93	12.44	38.45
LTE BAND 18 BW: 5M 16QAM RB: 1,0	826.5	23965	V	16.76	3.31	-2.92	17.15	38.45
			H	12.75	3.31	-2.92	13.15	38.45
	827.0	23970	V	17.17	3.31	-2.92	17.55	38.45
			H	12.62	3.31	-2.92	13.01	38.45
	827.5	23975	V	16.81	3.31	-2.92	17.19	38.45
			H	12.57	3.31	-2.92	12.96	38.45
LTE BAND 18 BW: 5M 16QAM RB: 1,5	826.5	23965	V	17.01	3.31	-2.92	17.39	38.45
			H	12.69	3.31	-2.92	13.08	38.45
	827.0	23970	V	16.93	3.31	-2.92	17.31	38.45
			H	12.6	3.31	-2.92	12.98	38.45
	827.5	23975	V	16.84	3.31	-2.93	17.22	38.45
			H	12.46	3.31	-2.93	12.84	38.45
LTE BAND 18 BW: 5M 64QAM RB: 1,0	826.5	23965	V	15.73	3.31	-2.92	16.12	38.45
			H	8.43	3.31	-2.92	8.83	38.45
	827.0	23970	V	15.71	3.31	-2.92	16.1	38.45
			H	8.31	3.31	-2.92	8.7	38.45
	827.5	23975	V	15.66	3.31	-2.92	16.04	38.45
			H	8.18	3.31	-2.92	8.57	38.45
LTE BAND 18 BW: 5M 64QAM RB: 1,5	826.5	23965	V	15.57	3.31	-2.92	15.95	38.45
			H	8.08	3.31	-2.92	8.46	38.45
	827.0	23970	V	15.54	3.31	-2.92	15.93	38.45
			H	8.16	3.31	-2.92	8.54	38.45
	827.5	23975	V	15.54	3.31	-2.92	15.92	38.45
			H	8.08	3.31	-2.92	8.46	38.45

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , 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
LTE BAND 18 BW: 5M QPSK RB: 1,0	817.5	23875	V	15.42	3.32	-2.89	15.85	50.00
			H	11.91	3.32	-2.89	12.34	50.00
	819.5	23895	V	16.14	3.32	-2.9	16.56	50.00
			H	12.6	3.32	-2.9	13.02	50.00
	821.5	23915	V	16.79	3.32	-2.9	17.21	50.00
			H	12.74	3.32	-2.9	13.15	50.00
LTE BAND 18 BW: 5M QPSK RB: 1,5	817.5	23875	V	15.84	3.32	-2.89	16.26	50.00
			H	12.39	3.32	-2.89	12.82	50.00
	819.5	23895	V	16.58	3.32	-2.9	17	50.00
			H	12.69	3.32	-2.9	13.11	50.00
	821.5	23915	V	16.59	3.31	-2.9	17	50.00
			H	12.77	3.31	-2.9	13.18	50.00
LTE BAND 18 BW: 5M 16QAM RB: 1,0	817.5	23875	V	15.57	3.32	-2.89	16	50.00
			H	12.12	3.32	-2.89	12.55	50.00
	819.5	23895	V	16.21	3.32	-2.9	16.63	50.00
			H	12.72	3.32	-2.89	13.14	50.00
	821.5	23915	V	16.68	3.32	-2.9	17.09	50.00
			H	13.12	3.32	-2.9	13.53	50.00
LTE BAND 18 BW: 5M 16QAM RB: 1,5	817.5	23875	V	15.88	3.32	-2.89	16.31	50.00
			H	13.07	3.32	-2.9	13.48	50.00
	819.5	23895	V	16.57	3.32	-2.9	16.98	50.00
			H	12.97	3.32	-2.9	13.39	50.00
	821.5	23915	V	16.98	3.31	-2.91	17.39	50.00
			H	13.12	3.31	-2.9	13.53	50.00
LTE BAND 18 BW: 5M 64QAM RB: 1,0	817.5	23875	V	14.55	3.32	-2.89	14.98	50.00
			H	8.87	3.32	-2.89	9.3	50.00
	819.5	23895	V	15.37	3.32	-2.9	15.79	50.00
			H	9.73	3.32	-2.9	10.15	50.00
	821.5	23915	V	15.21	3.32	-2.9	15.63	50.00
			H	9.89	3.32	-2.9	10.3	50.00
LTE BAND 18 BW: 5M 64QAM RB: 1,5	817.5	23875	V	15.17	3.32	-2.89	15.6	50.00
			H	9.4	3.32	-2.89	9.83	50.00
	819.5	23895	V	15.42	3.32	-2.9	15.84	50.00
			H	9.76	3.32	-2.9	10.18	50.00
	821.5	23915	V	15.24	3.31	-2.91	15.64	50.00
			H	10.03	3.31	-2.91	10.44	50.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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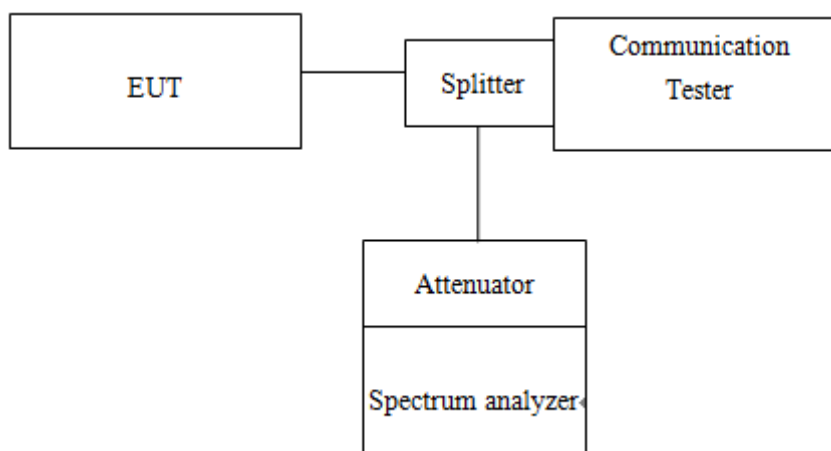
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8. OCCUPIED BANDWIDTH MEASUREMENT

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	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

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8.5. Measurement Result

LTE BAND 14 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99%BW (MHz)	99%BW (MHz)	99%BW (MHz)	26 dB BW(MHz)	26 dB BW(MHz)	26 dB BW(MHz)
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
790.5	23305	4.9580	4.5257	4.5360	4.5202	6.8070	6.0830
793.0	23330	4.5153	4.5104	4.5373	5.0110	5.5440	6.2380
795.5	23355	4.5161	4.5224	4.5169	4.9720	5.3290	4.9740

LTE BAND 14 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99%BW (MHz)	99%BW (MHz)	99%BW (MHz)	26 dB BW(MHz)	26 dB BW(MHz)	26 dB BW(MHz)
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
793.0	23330	8.9153	8.9587	8.9636	9.7800	9.7440	9.7890

LTE BAND 18 (Part 22) Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99%BW (MHz)	99%BW (MHz)	99%BW (MHz)	26 dB BW(MHz)	26 dB BW(MHz)	26 dB BW(MHz)
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
824.7	26797	4.5303	4.5258	4.5168	4.9880	4.9190	4.9900
836.5	26915	4.5223	4.5149	4.5212	4.9820	4.9720	4.9850
848.3	27033	4.5487	4.5195	4.5222	4.9980	4.9910	4.9470

LTE BAND 18 (Part 90S) Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99%BW (MHz)	99%BW (MHz)	99%BW (MHz)	26 dB BW(MHz)	26 dB BW(MHz)	26 dB BW(MHz)
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2572.5	37775	4.5199	4.5197	4.4972	4.9420	4.9540	4.9670
2595.0	38000	4.5378	4.4976	4.5141	4.9580	4.9380	4.9090
2617.5	38225	4.5270	4.5199	4.5316	4.9730	4.9680	4.9570

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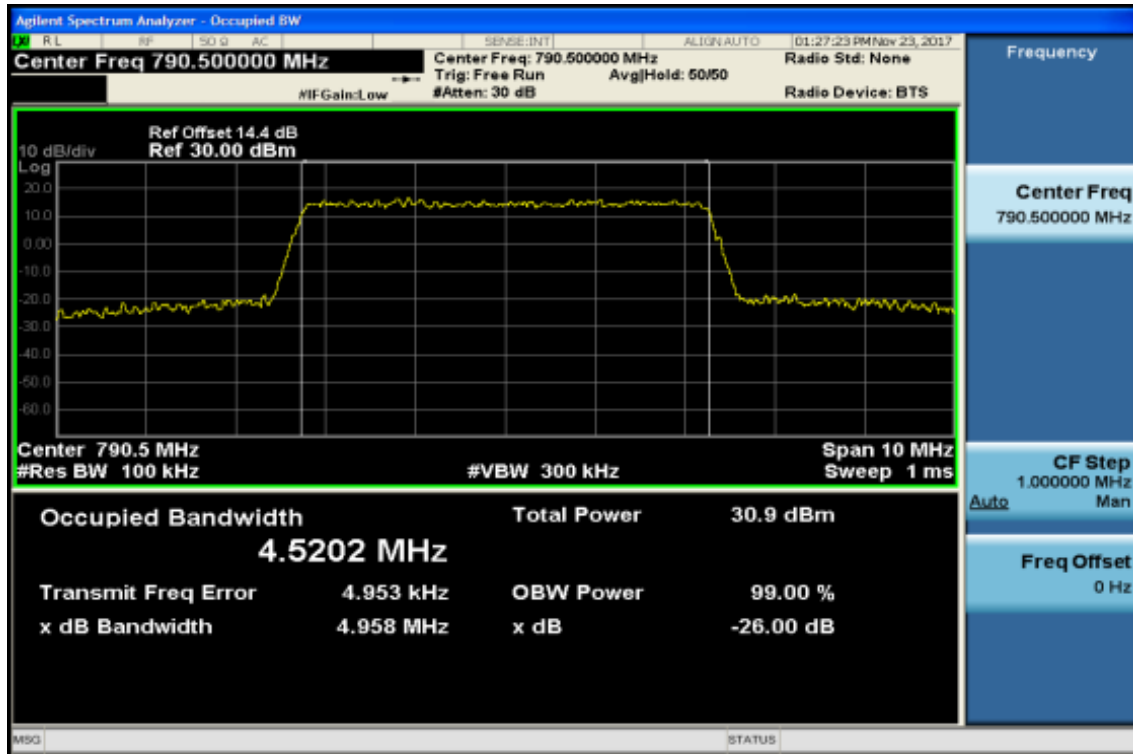
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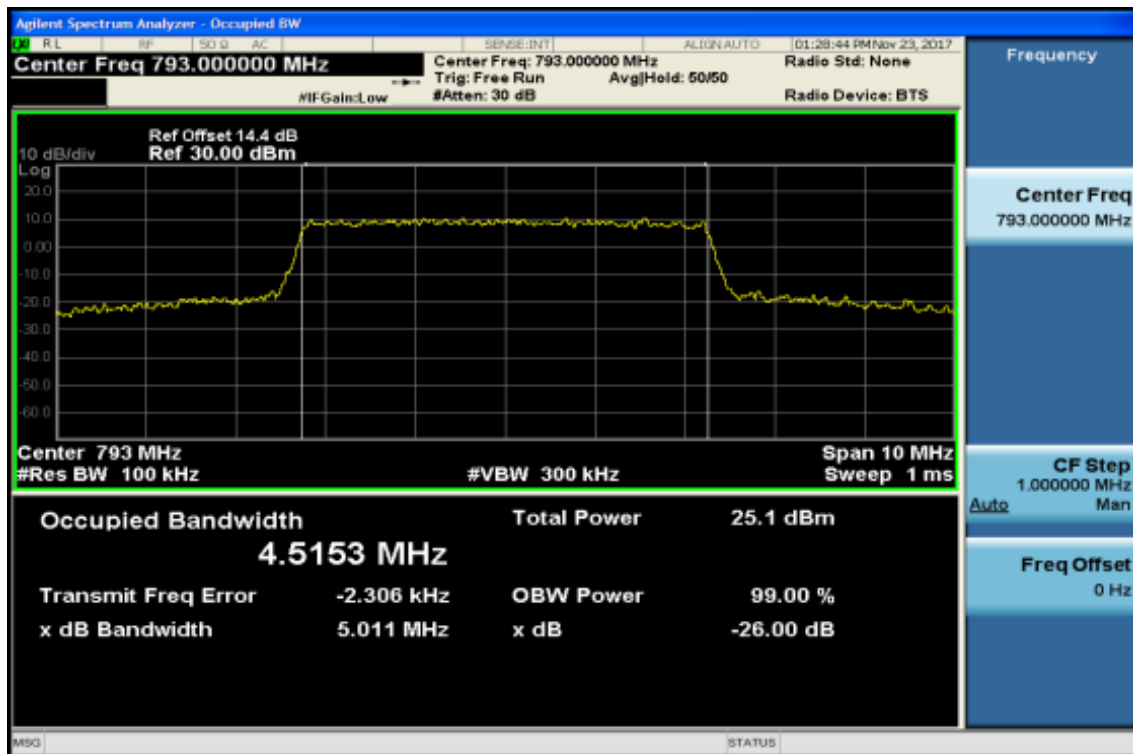
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Band14_5MHz_QPSK_25_0_Low



Band14_5MHz_QPSK_25_0_Mid



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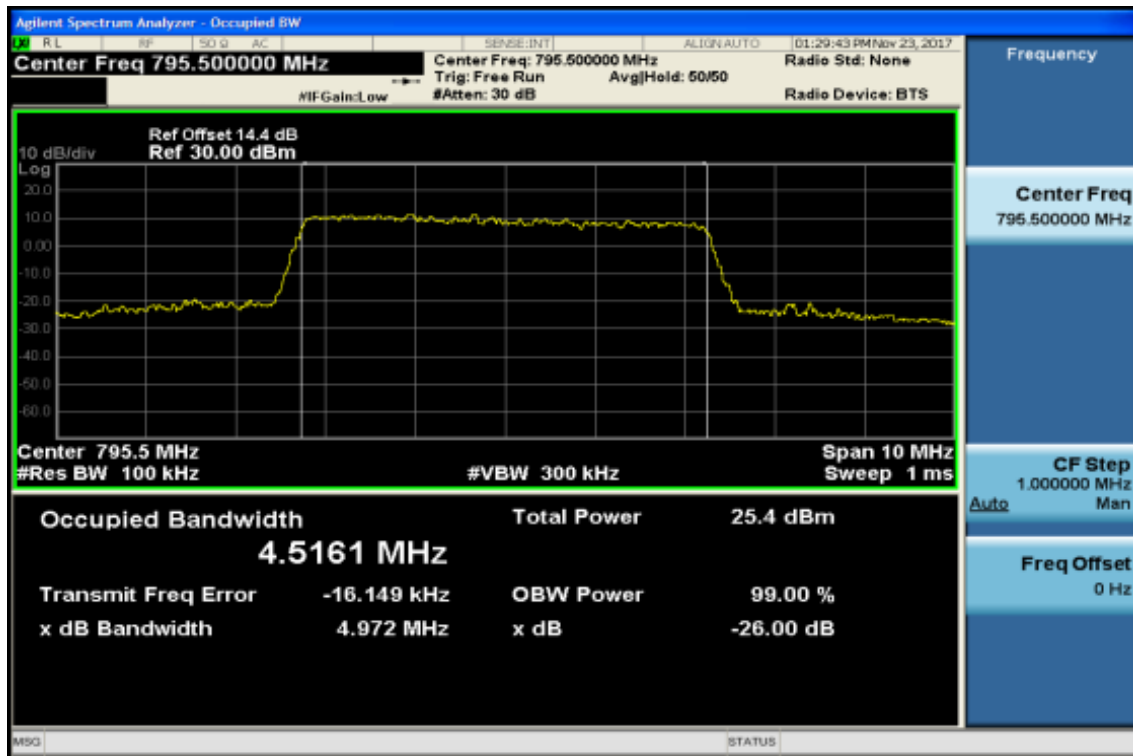
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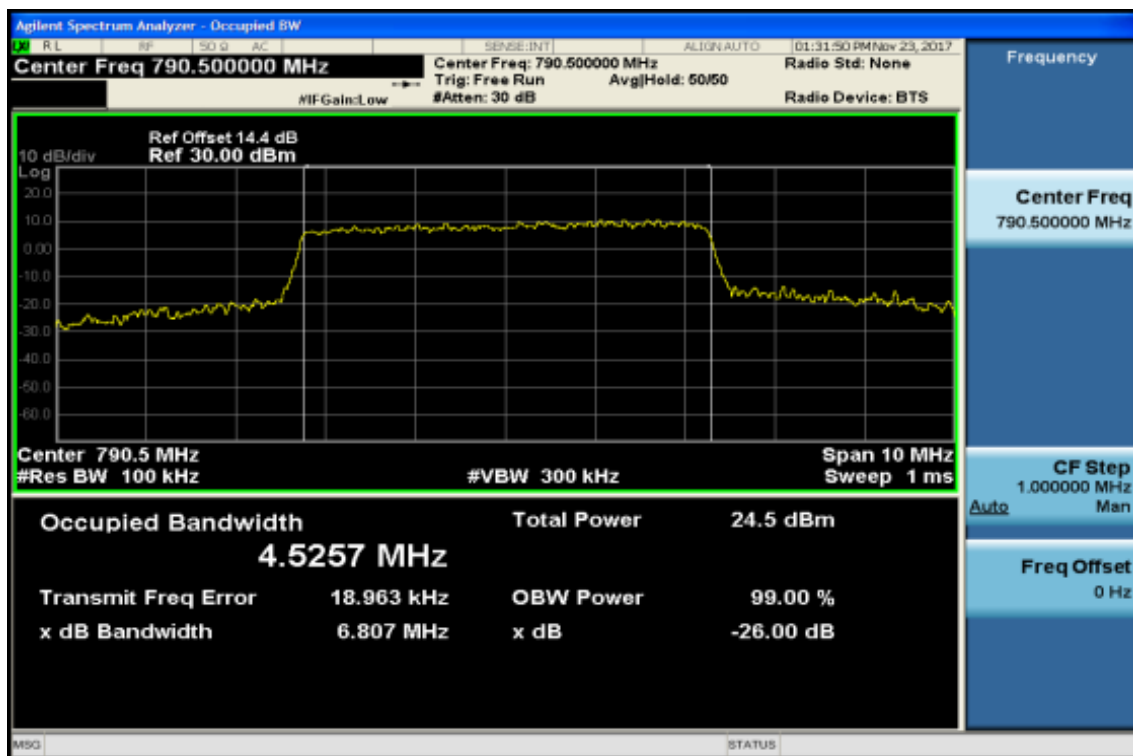
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Band14_5MHz_QPSK_25_0_High



Band14_5MHz_16QAM_25_0_Low



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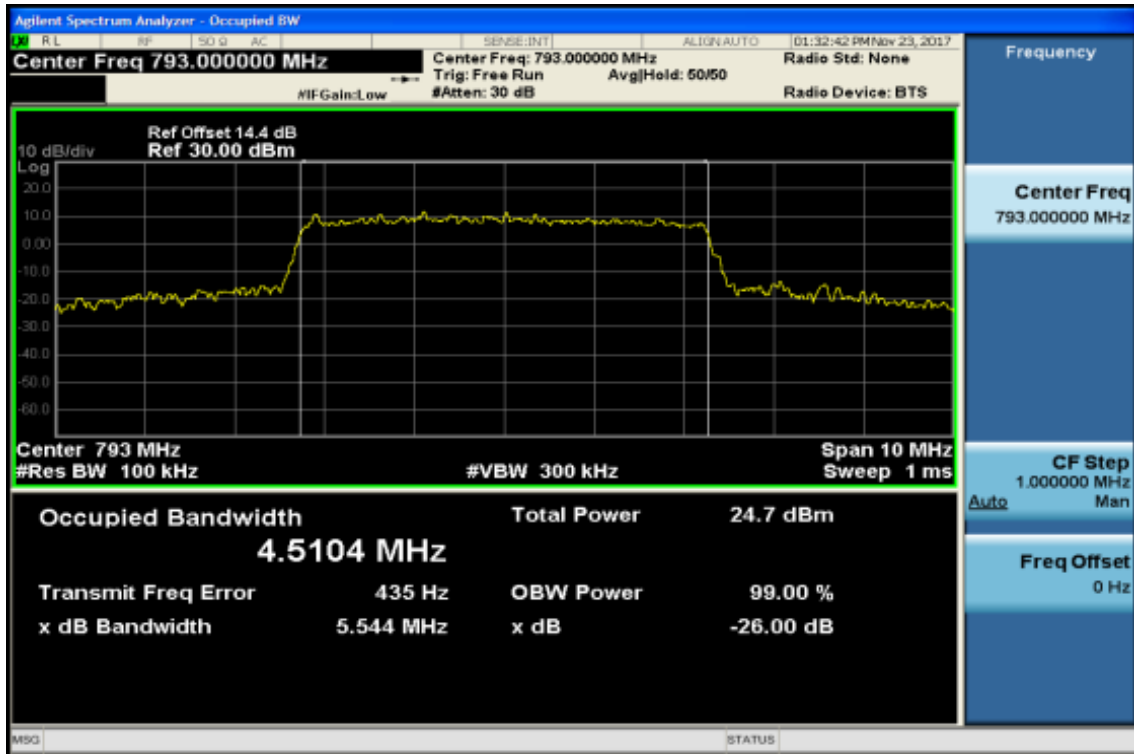
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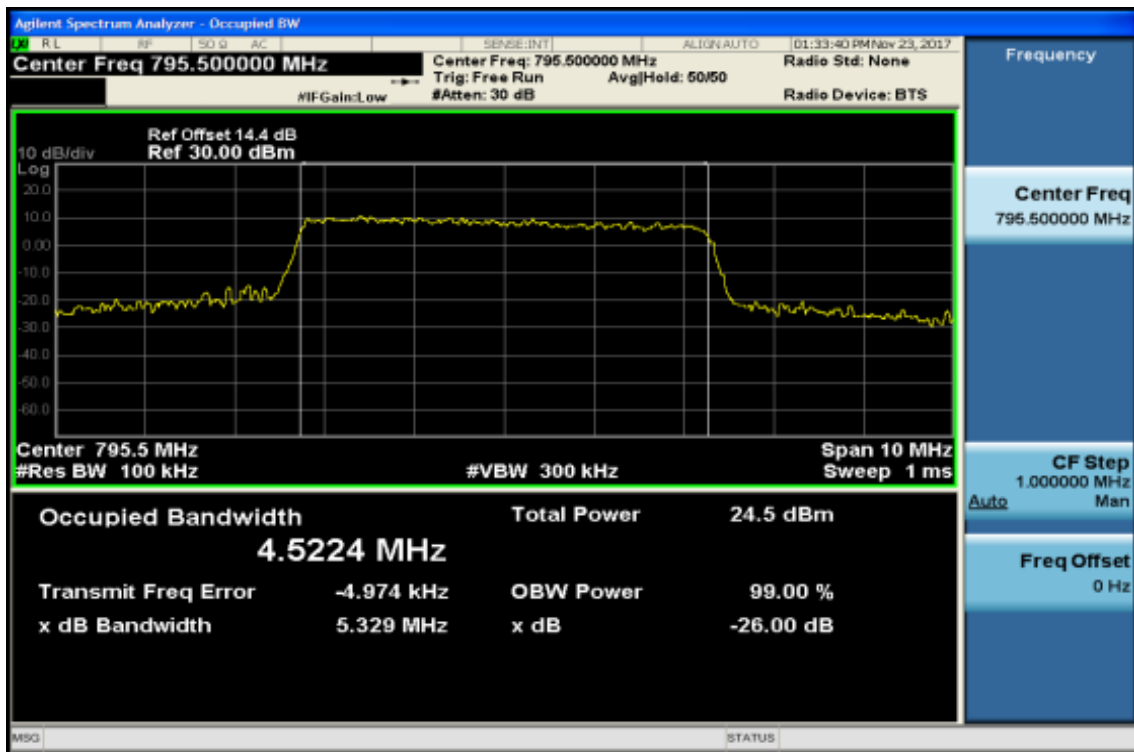
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Band14_5MHz_16QAM_25_0_Mid



Band14_5MHz_16QAM_25_0_High



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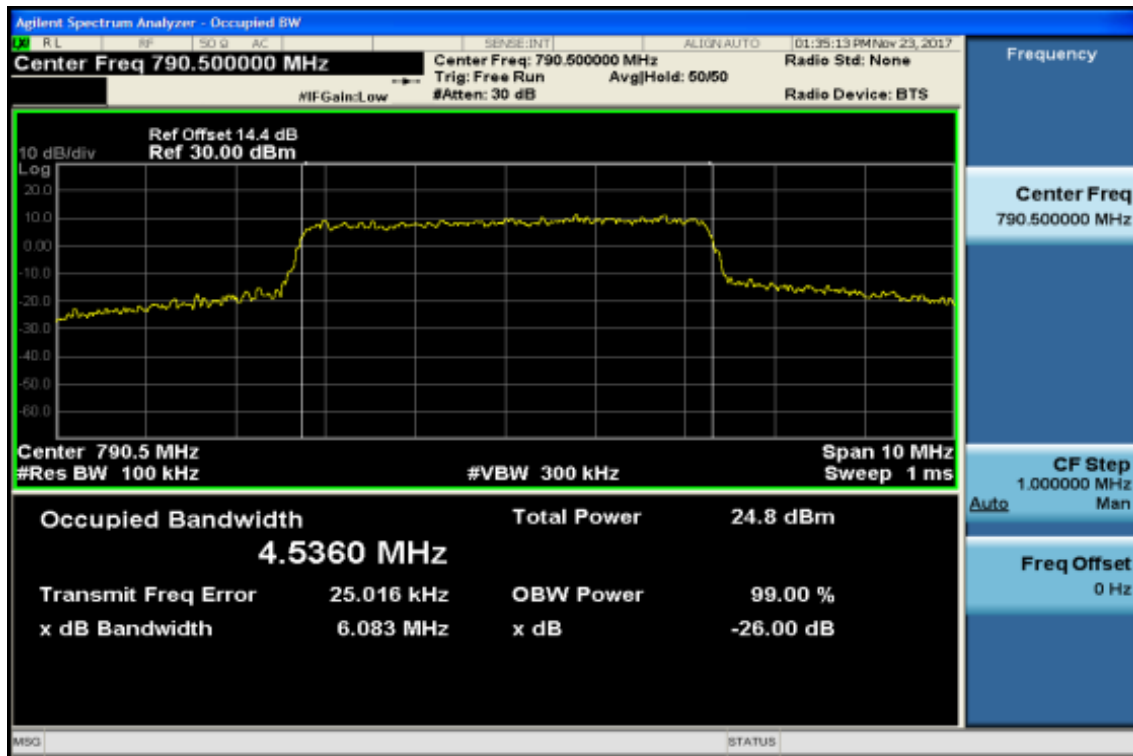
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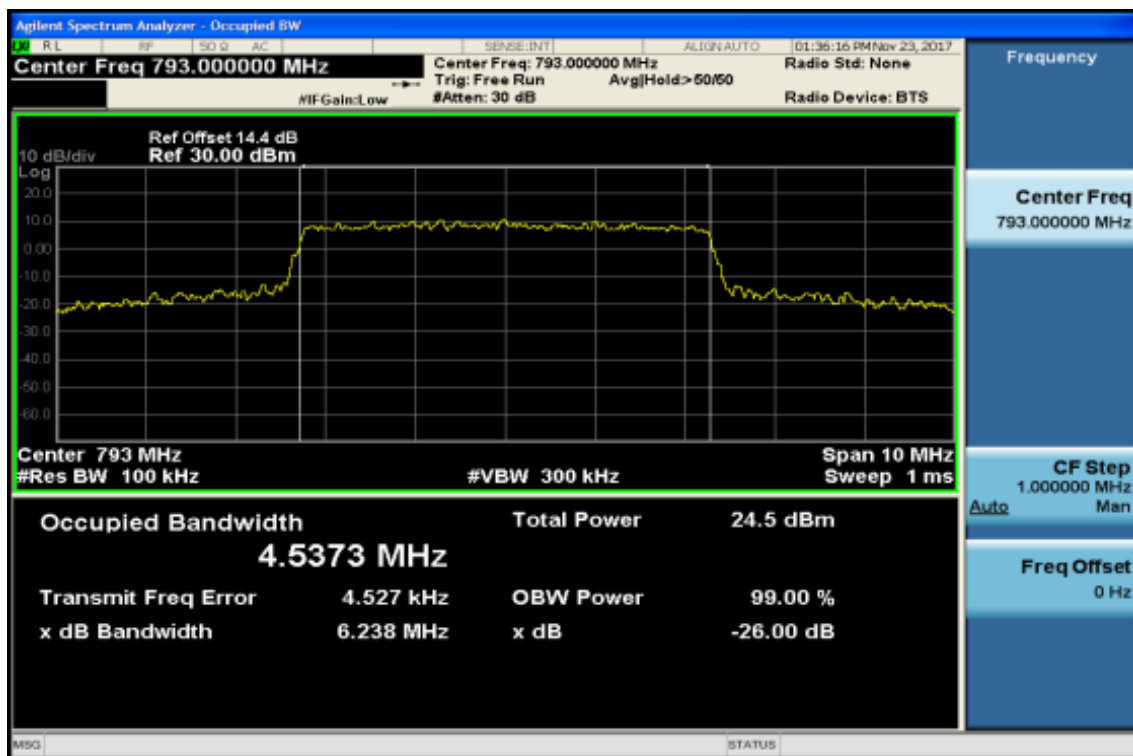
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Band14_5MHz_64QAM_25_0_Low



Band14_5MHz_64QAM_25_0_Mid



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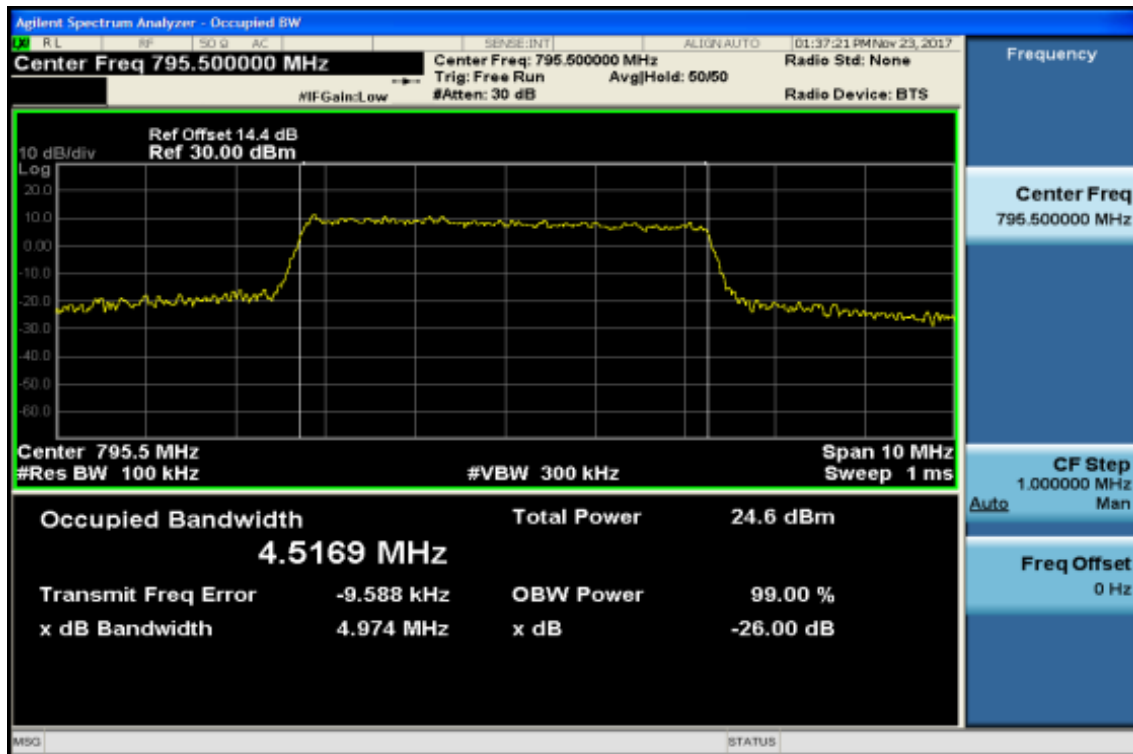
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Band14_5MHz_64QAM_25_0_High



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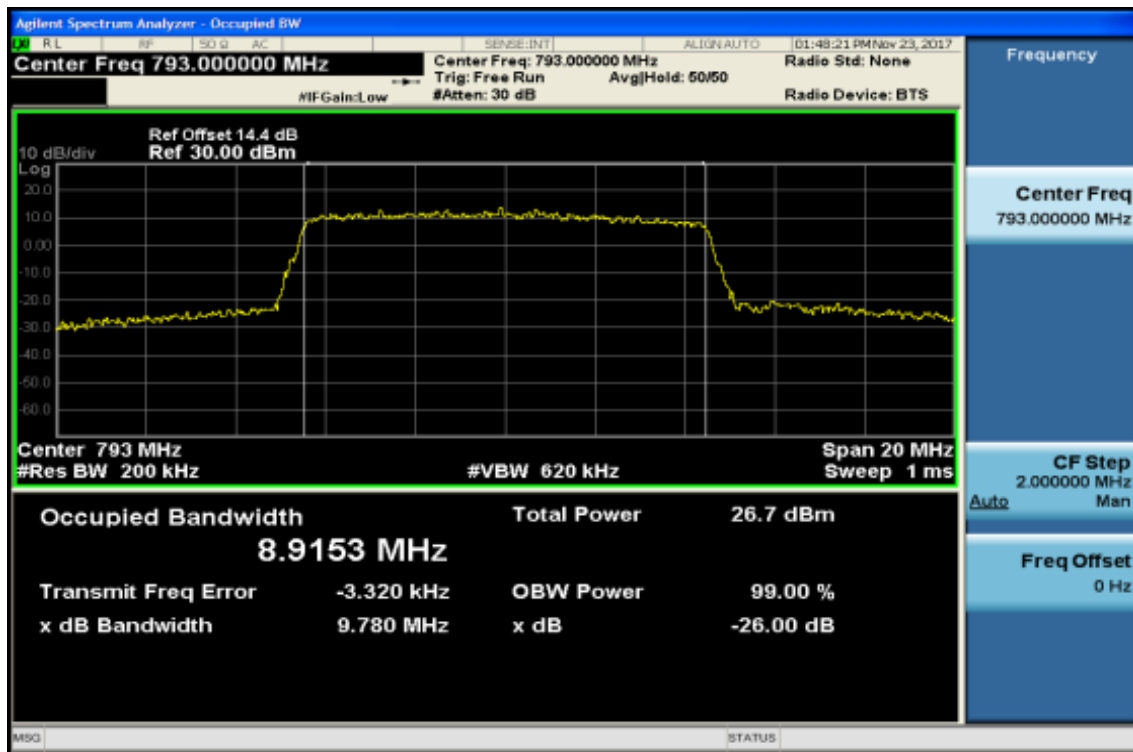
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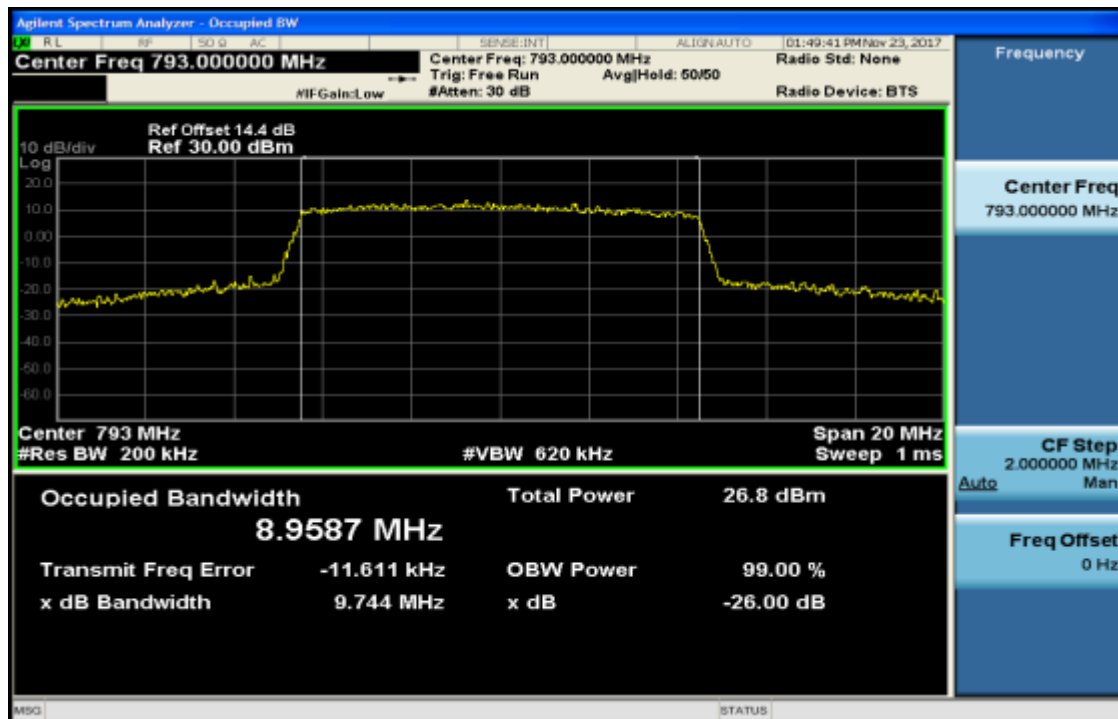
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Band14_10MHz_QPSK_50_0_Mid



Band14_10MHz_16QAM_50_0_Mid



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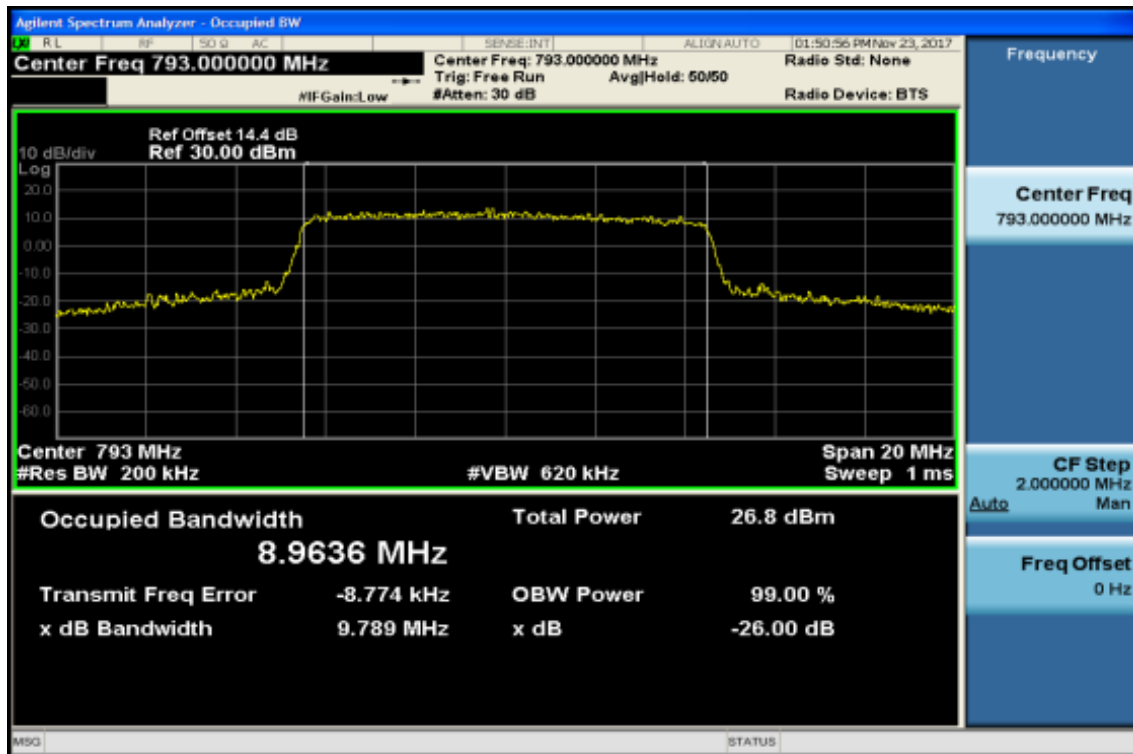
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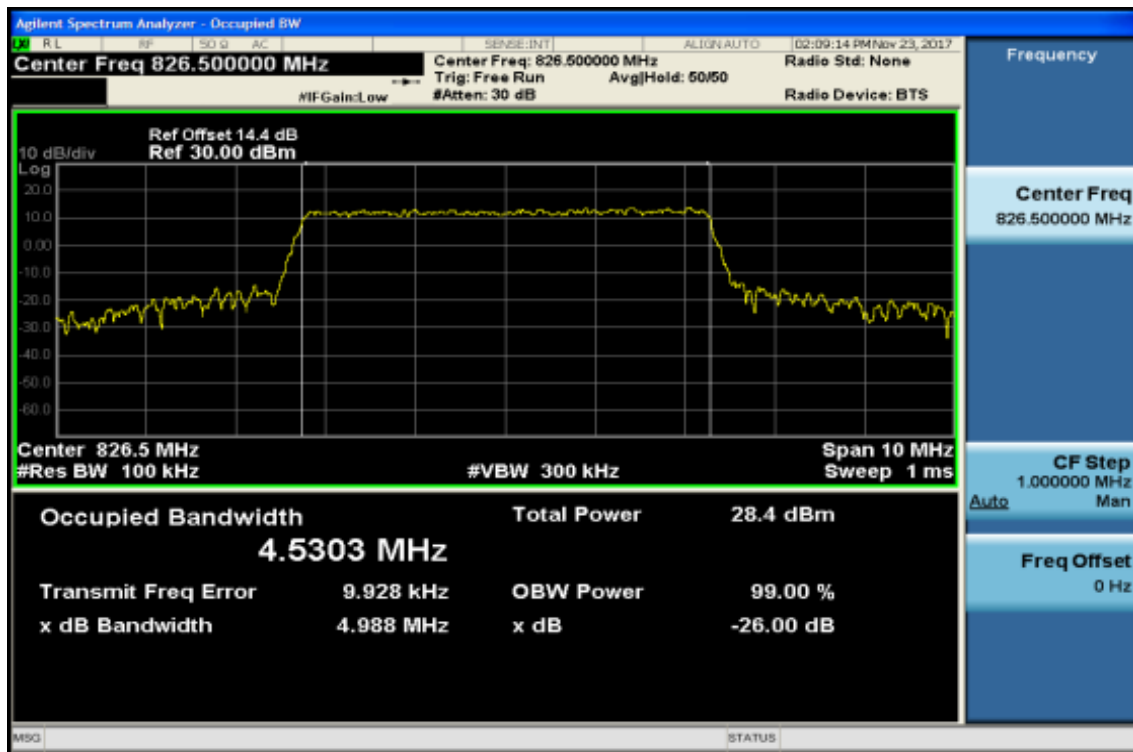
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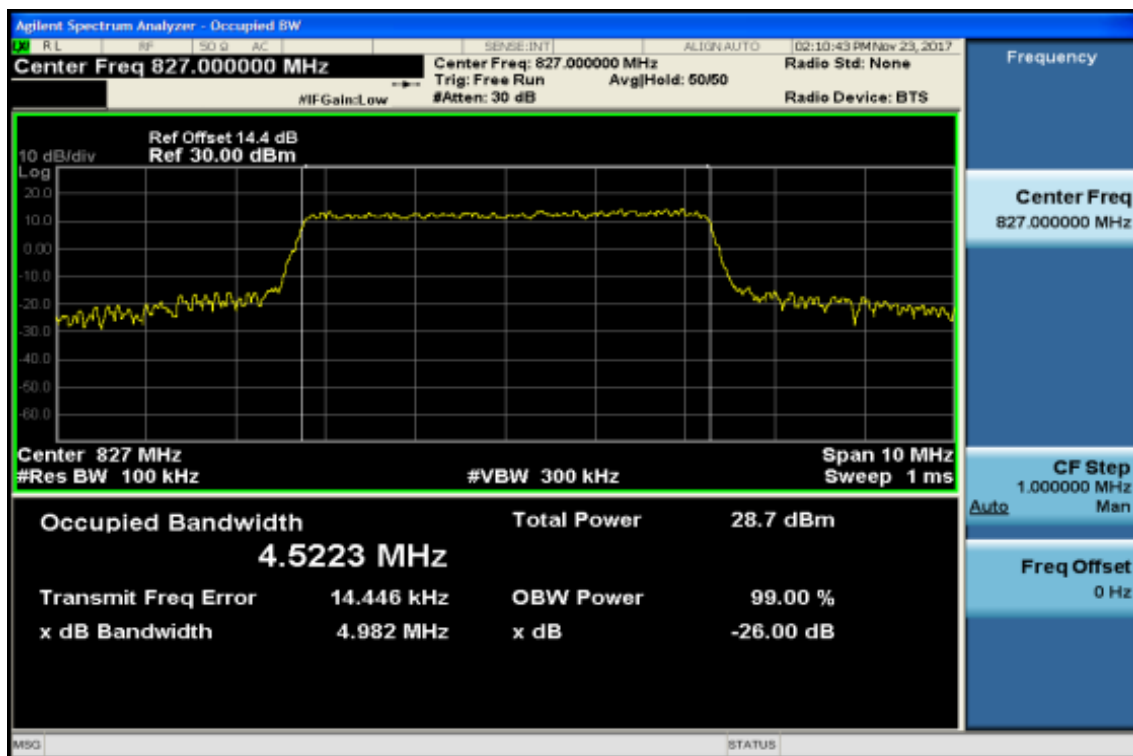
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(Part22) Band18_5MHz_QPSK_25_0_Low



Band18_5MHz_QPSK_25_0_Mid



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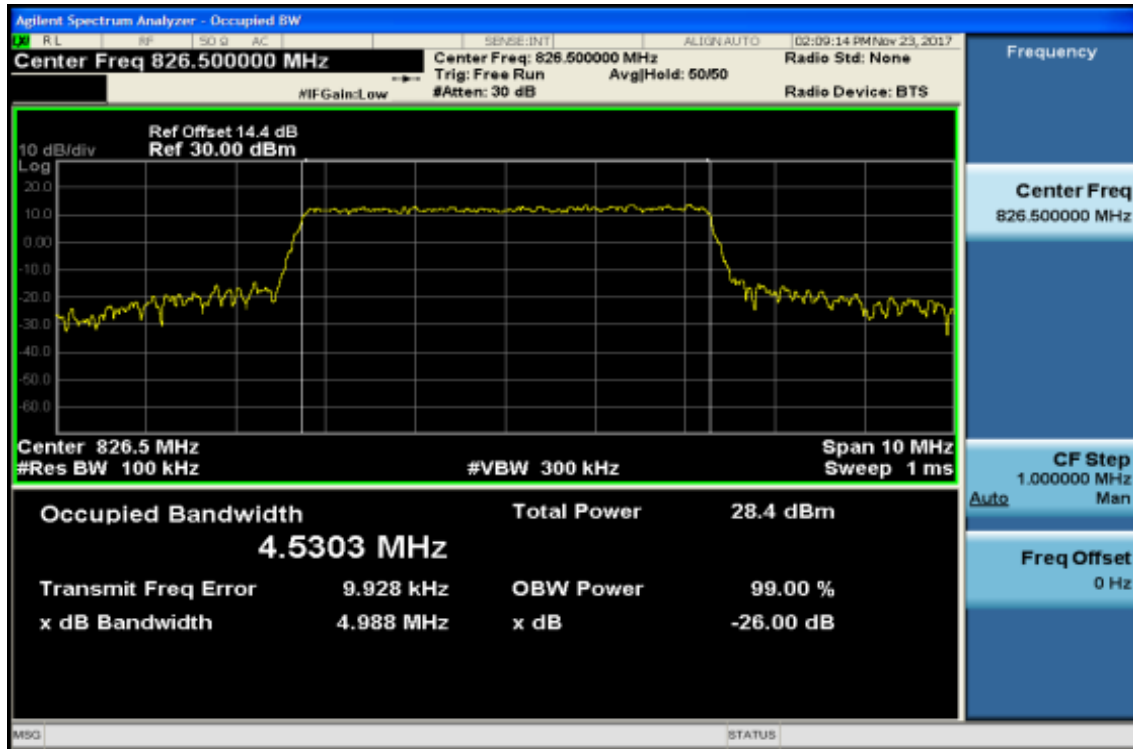
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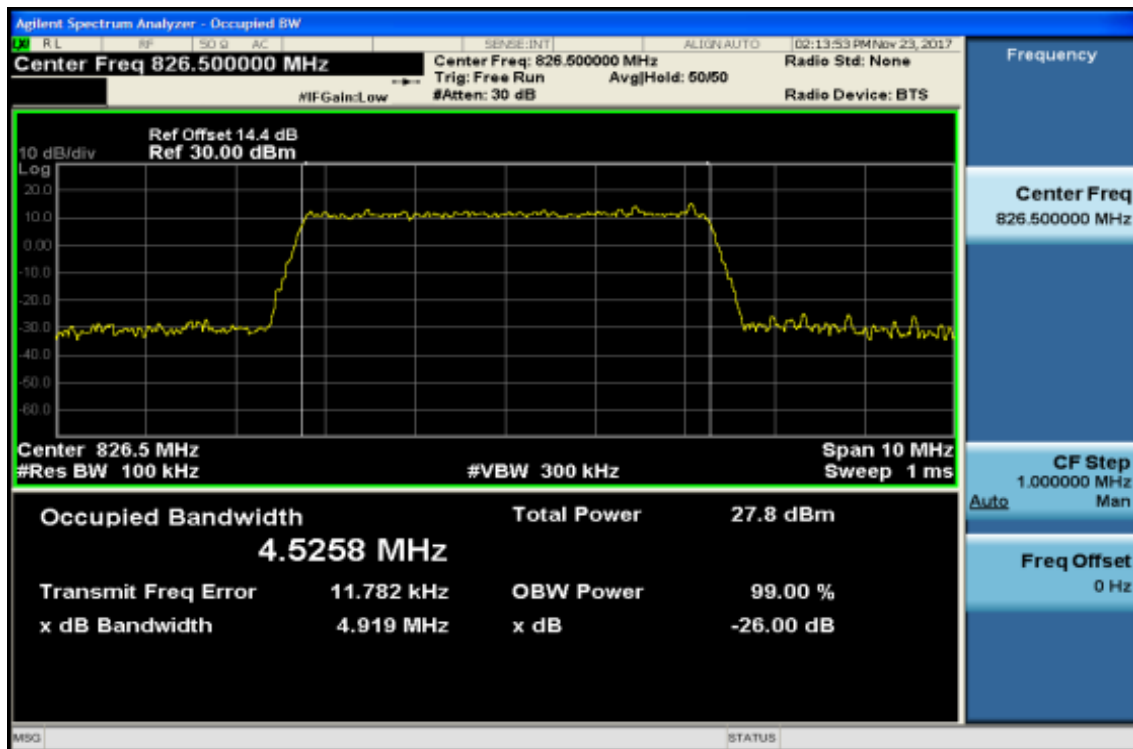
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Band18_5MHz_QPSK_25_0_High



Band18_5MHz_16QAM_25_0_Low



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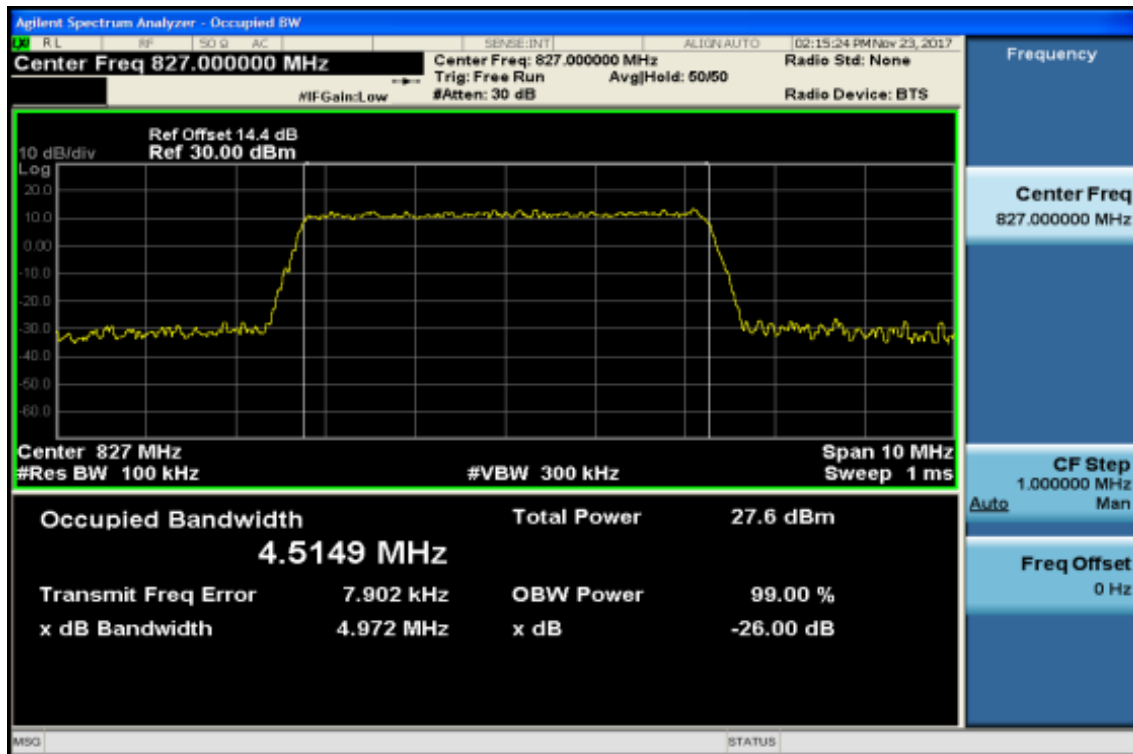
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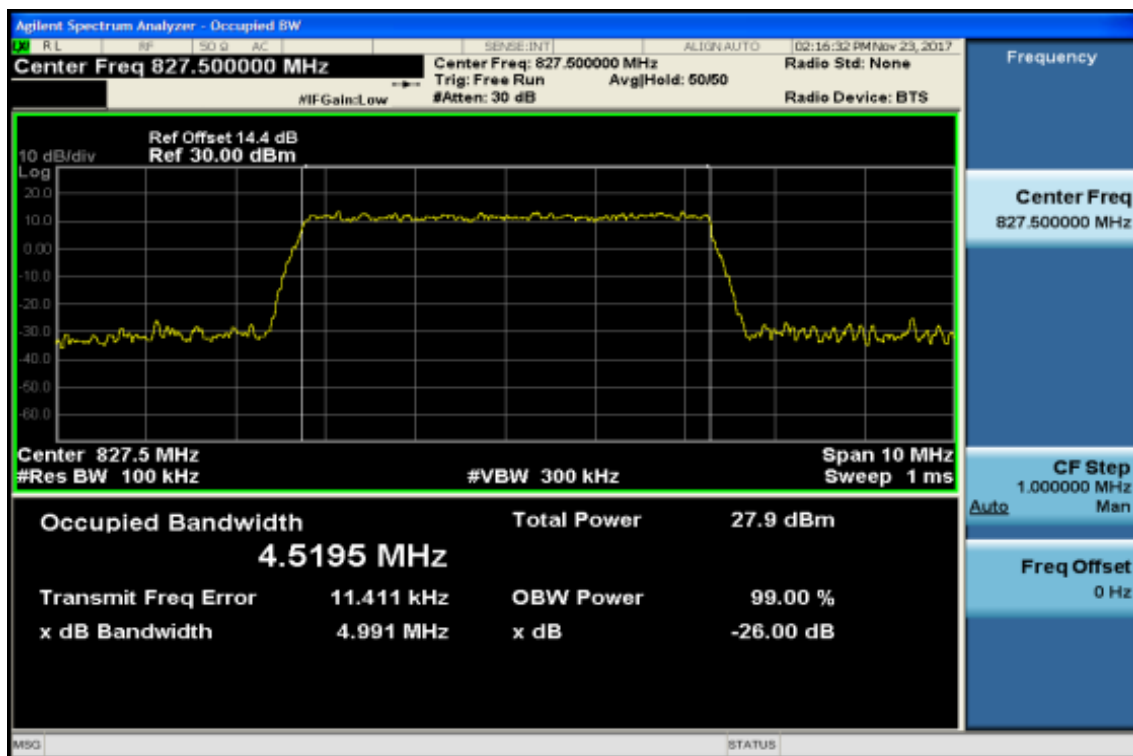
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Band18_5MHz_16QAM_25_0_Mid



Band18_5MHz_16QAM_25_0_High



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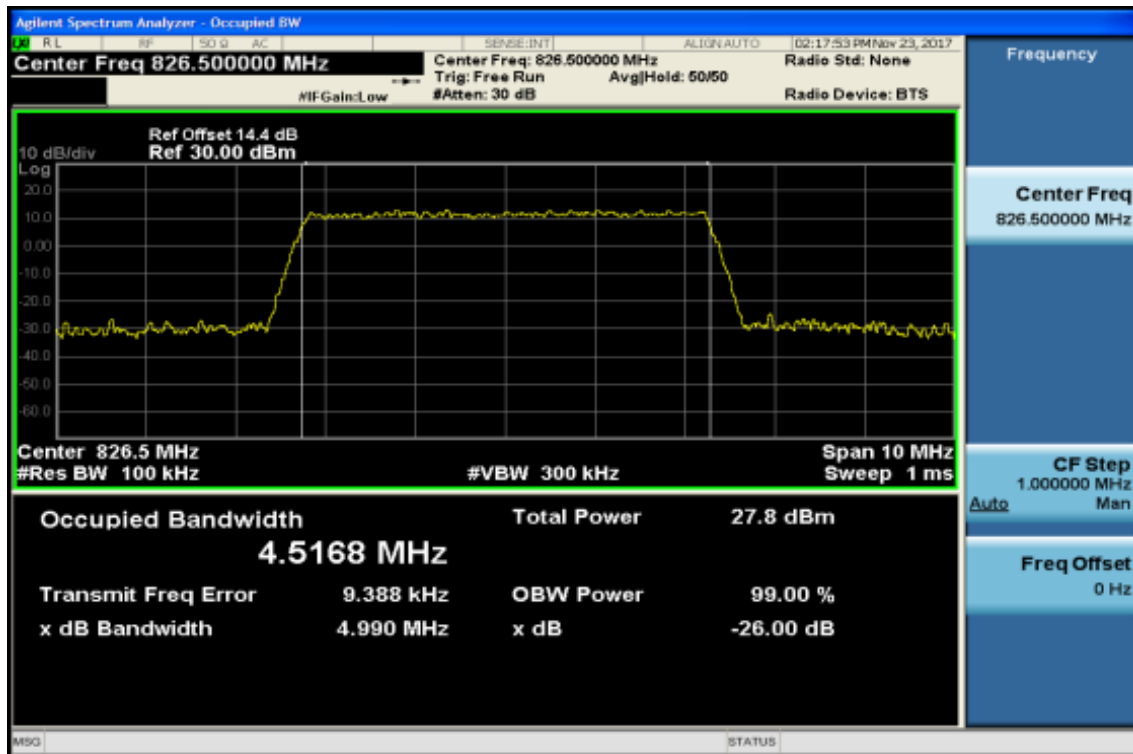
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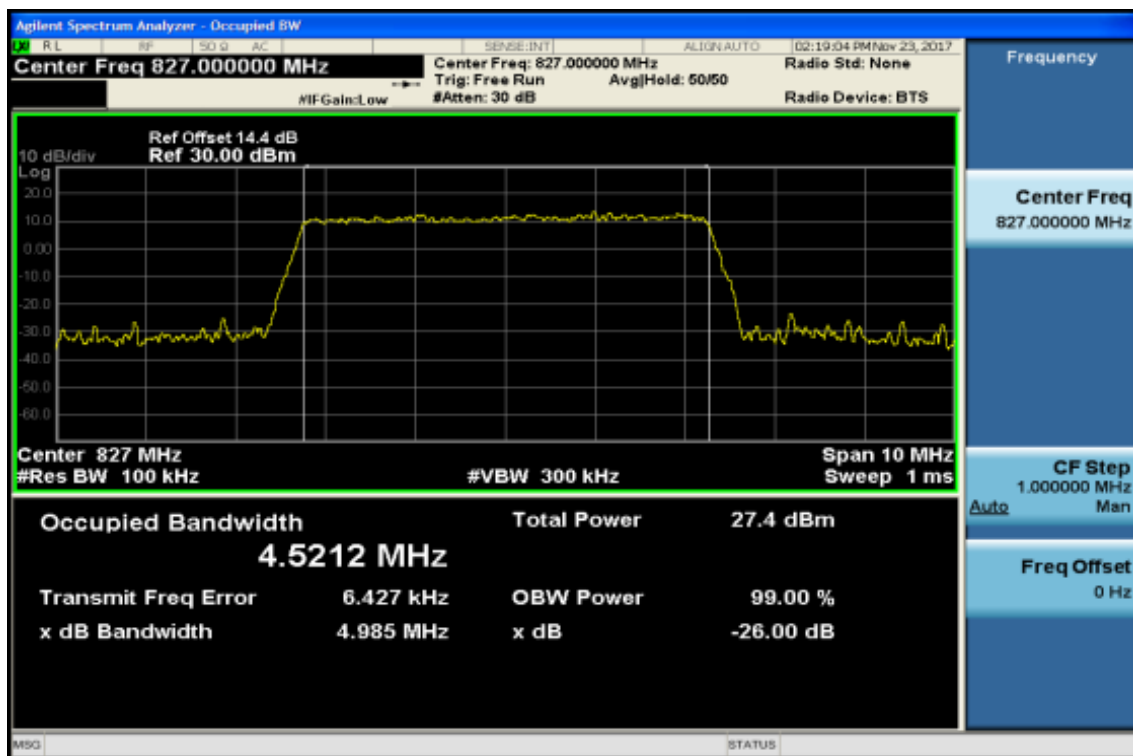
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Band18_5MHz_64QAM_25_0_Low



Band18_5MHz_64QAM_25_0_Mid



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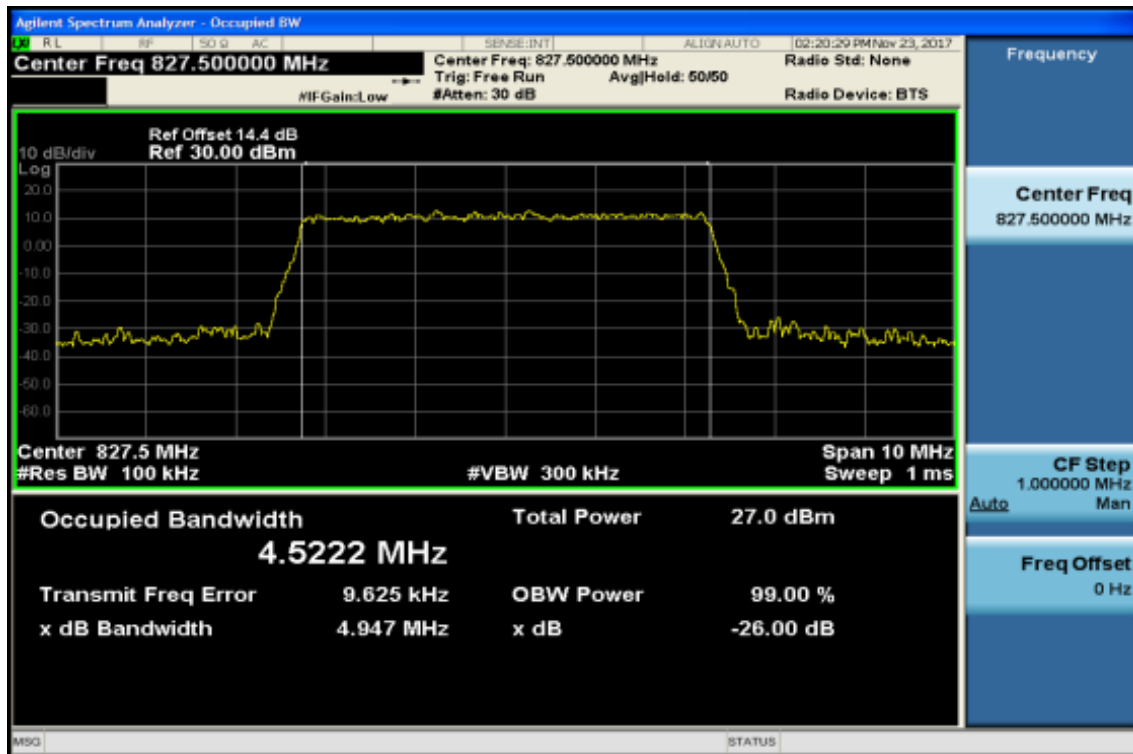
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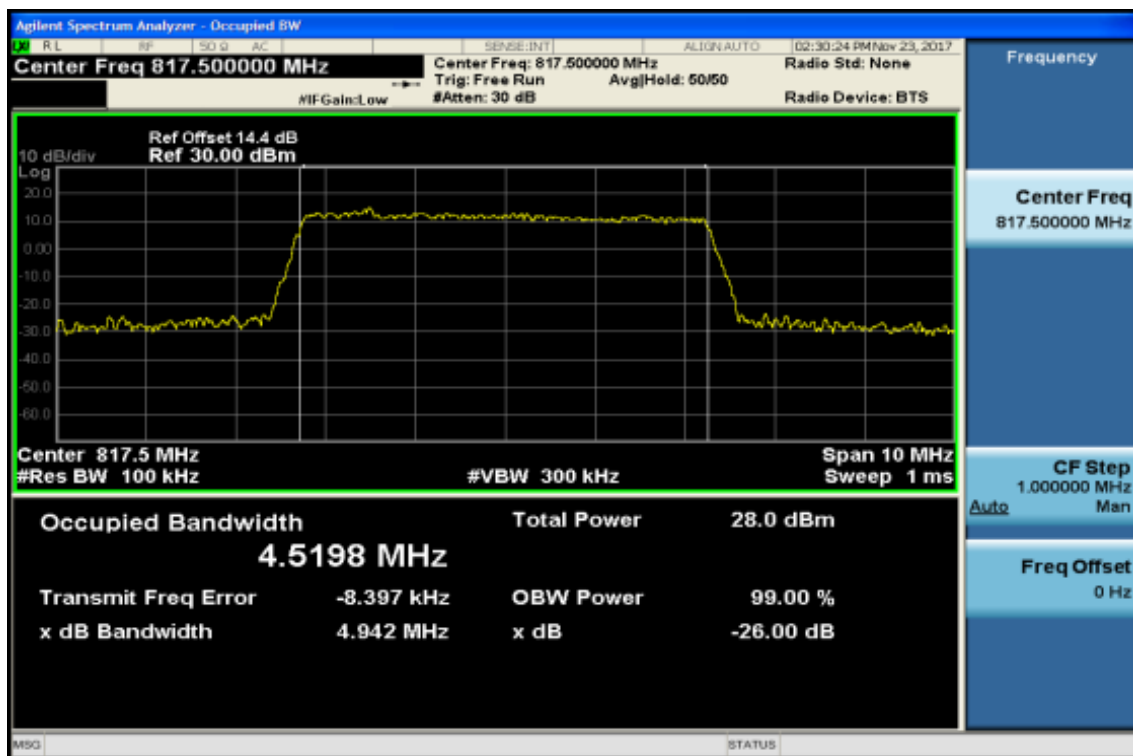
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Band18_5MHz_64QAM_25_0_High



(Part90S) Band18_5MHz_QPSK_25_0_Low



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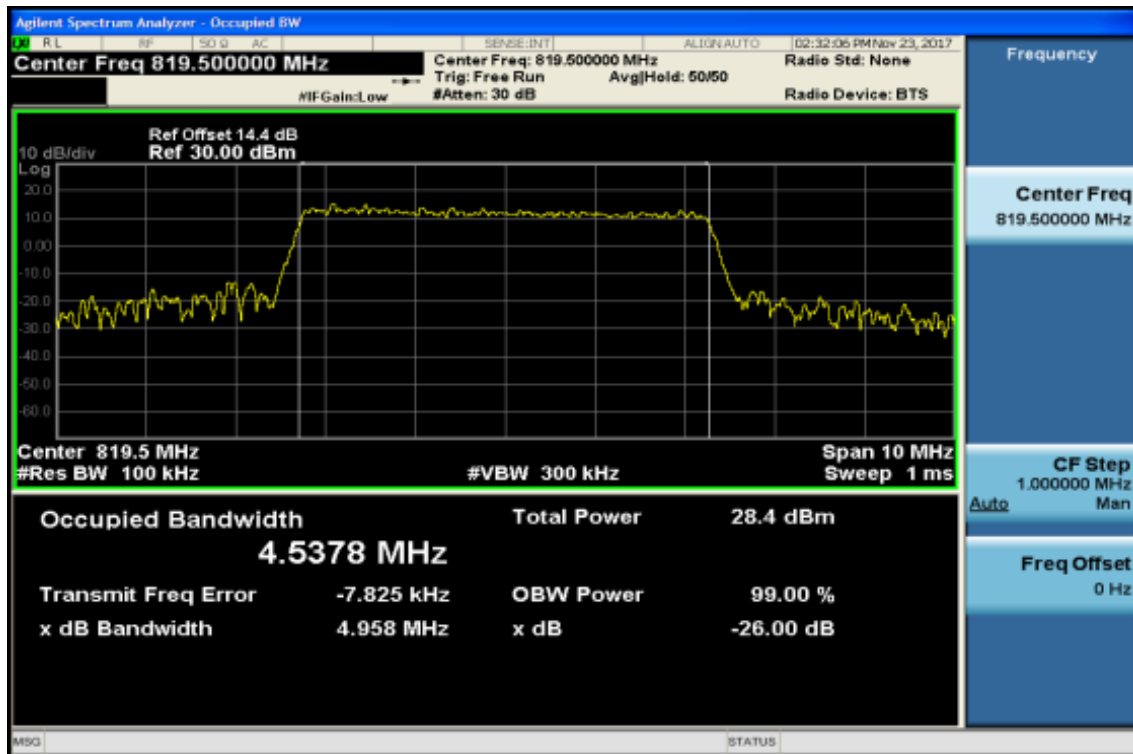
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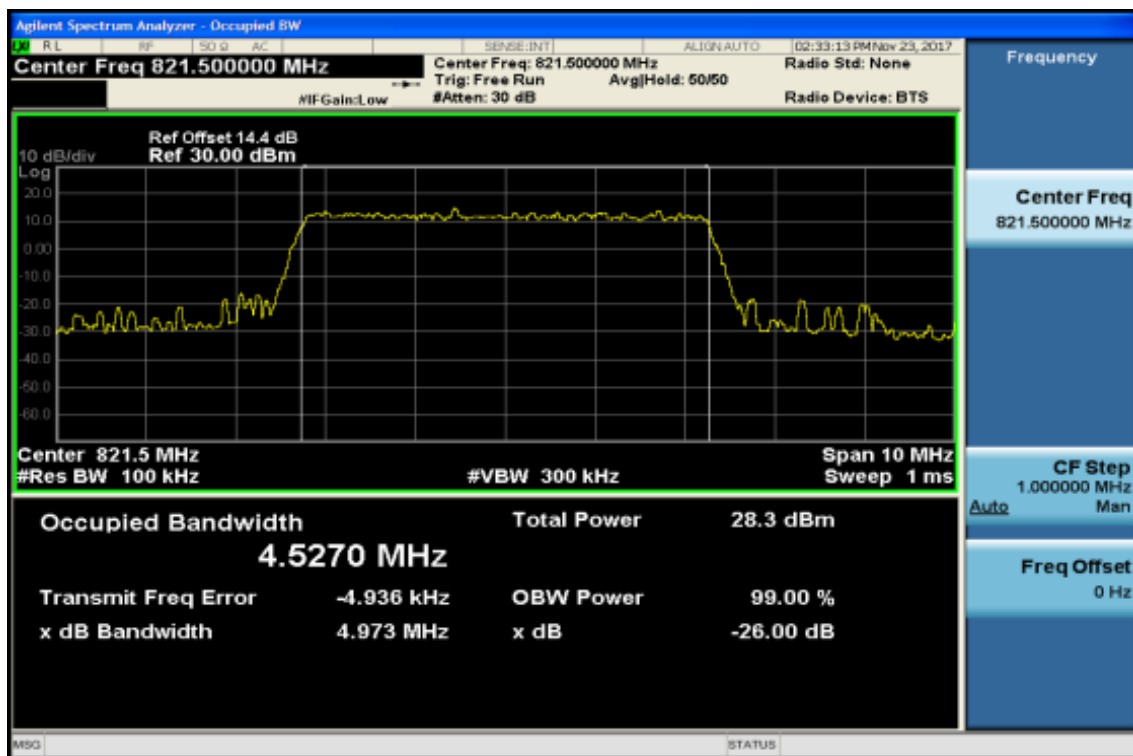
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Band18_5MHz_QPSK_25_0_Mid



Band18_5MHz_QPSK_25_0_High



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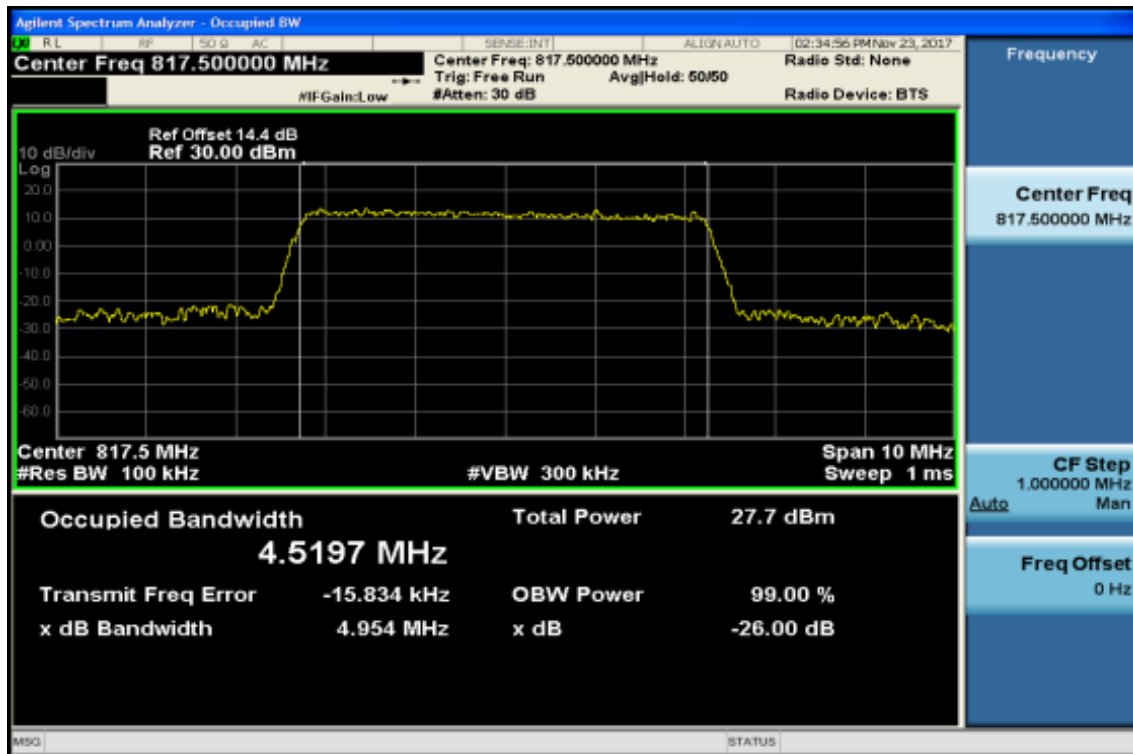
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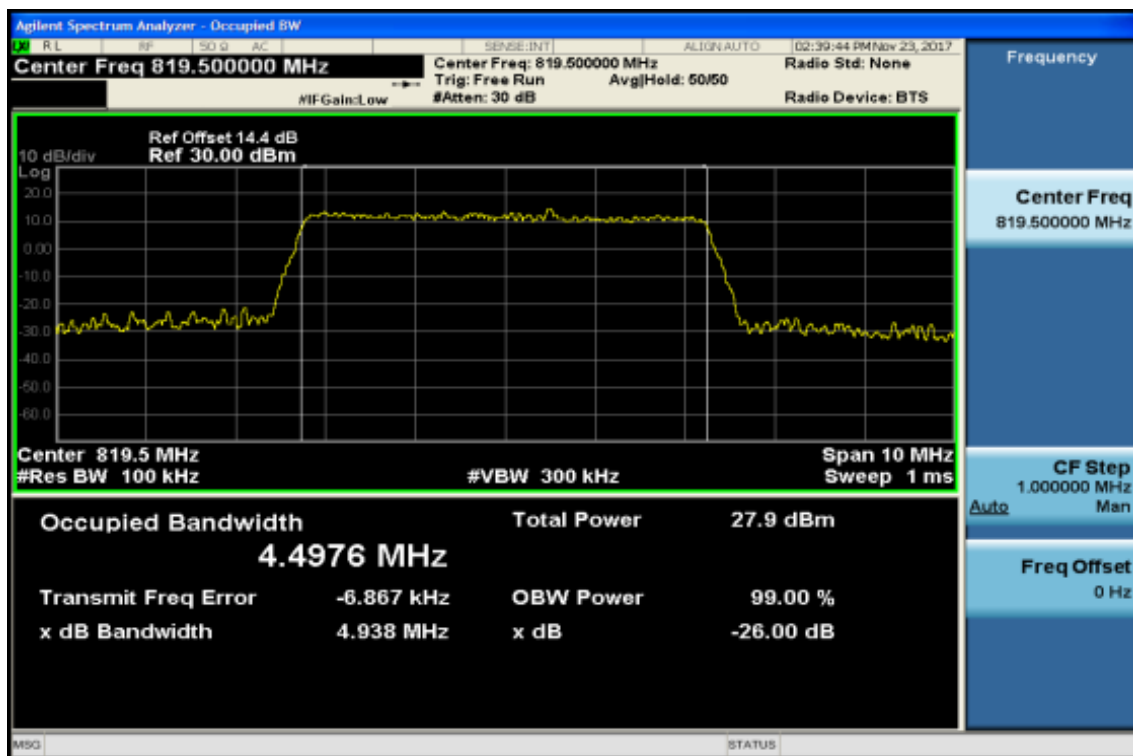
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Band18_5MHz_16QAM_25_0_Low



Band18_5MHz_16QAM_25_0_Mid



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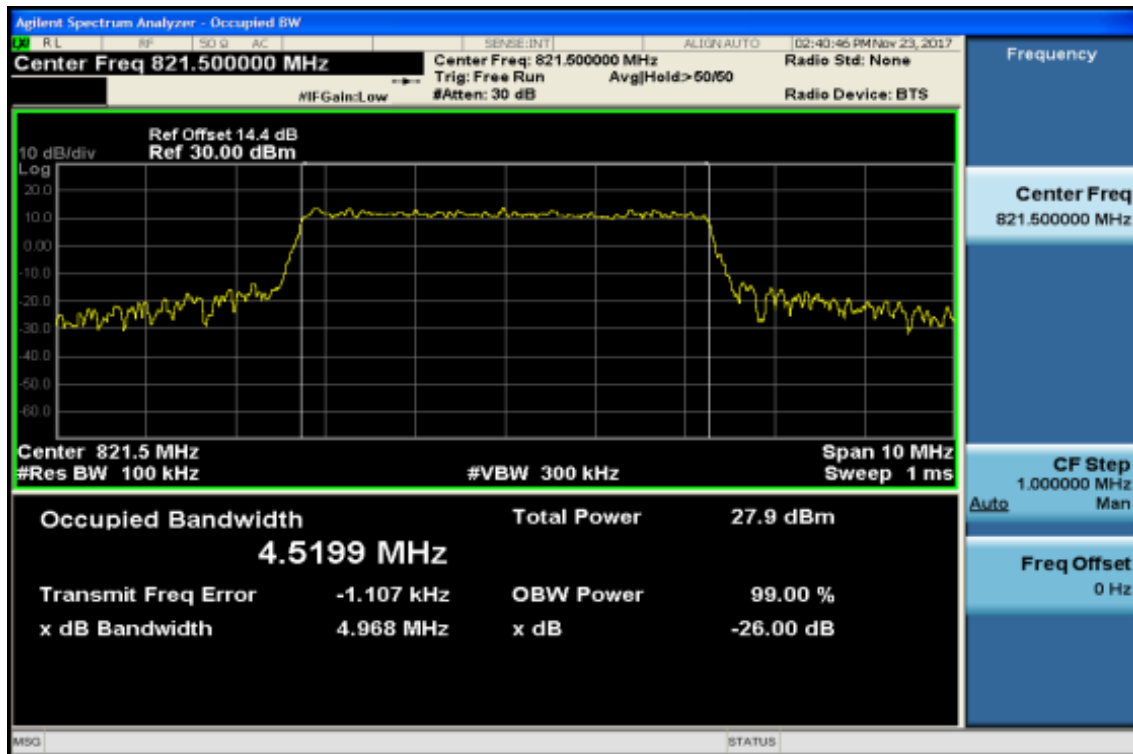
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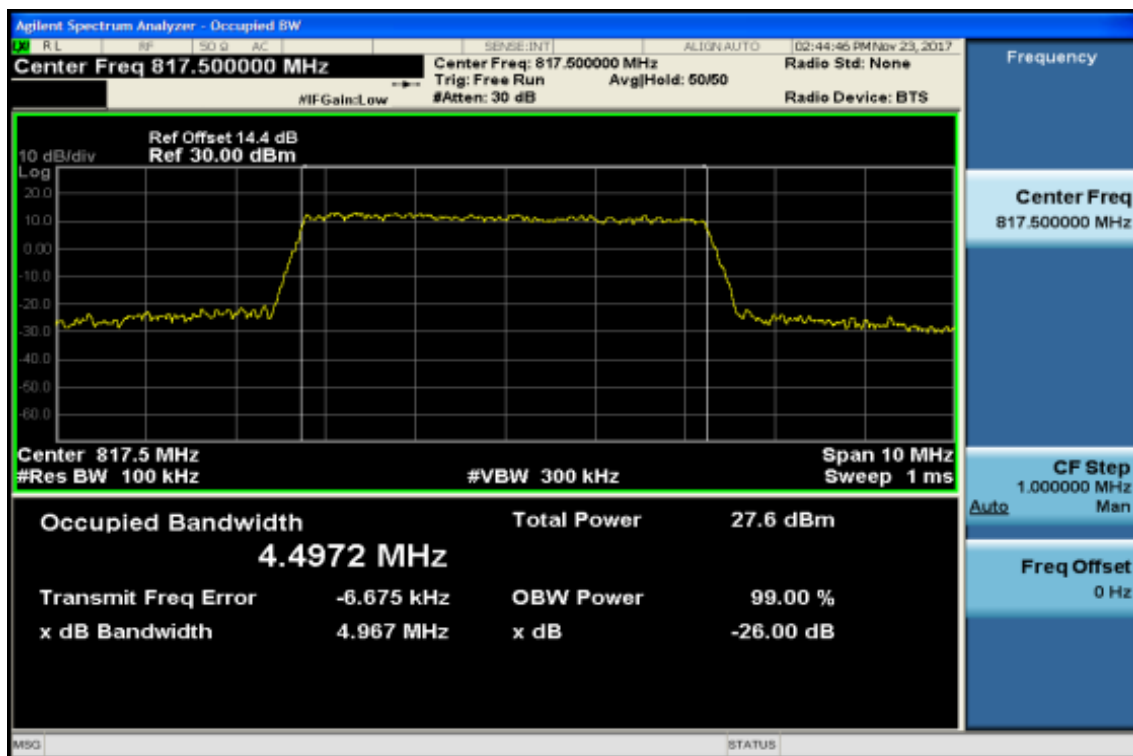
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Band18_5MHz_16QAM_25_0_High



Band18_5MHz_64QAM_25_0_Low



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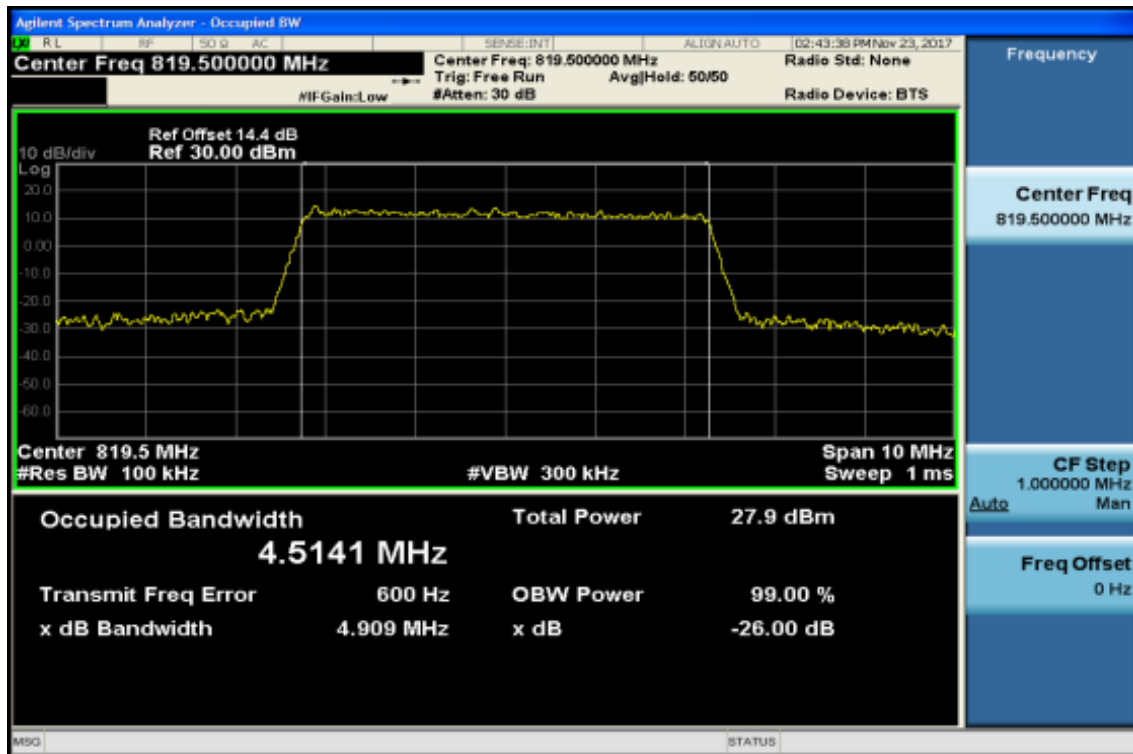
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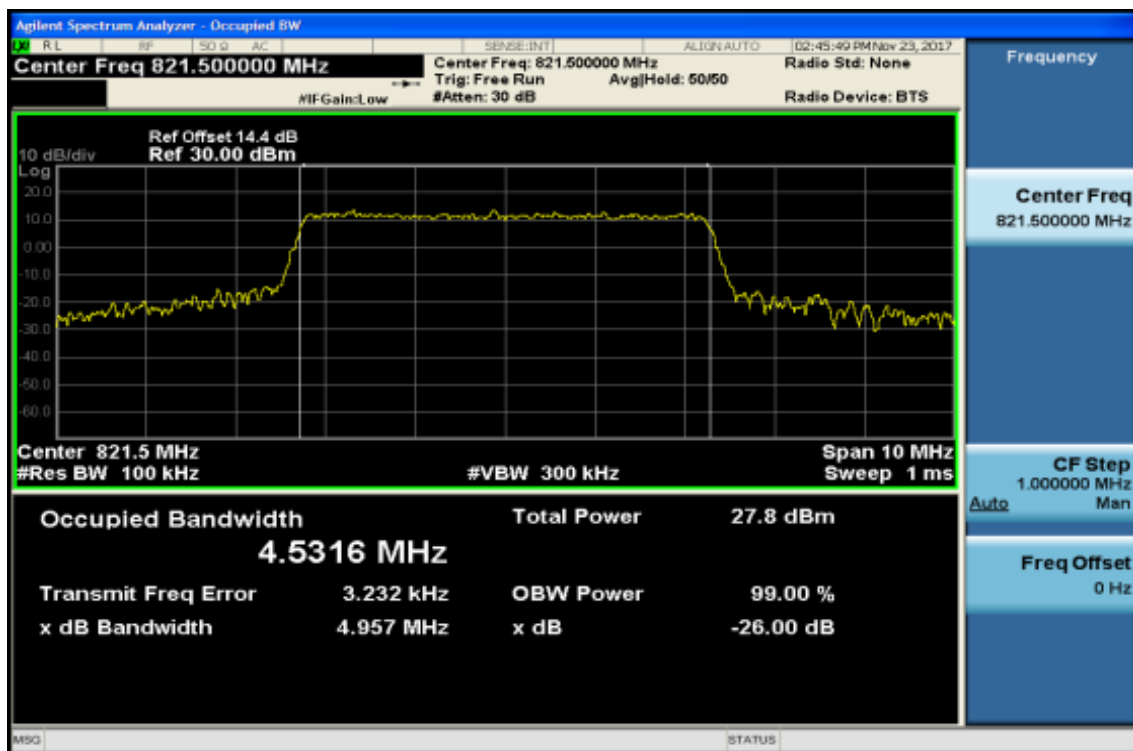
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Band18_5MHz_64QAM _25_0_Mid



Band18_5MHz_64QAM _25_0_High



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

FCC §22.917(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)

(c) For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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.

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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.

§90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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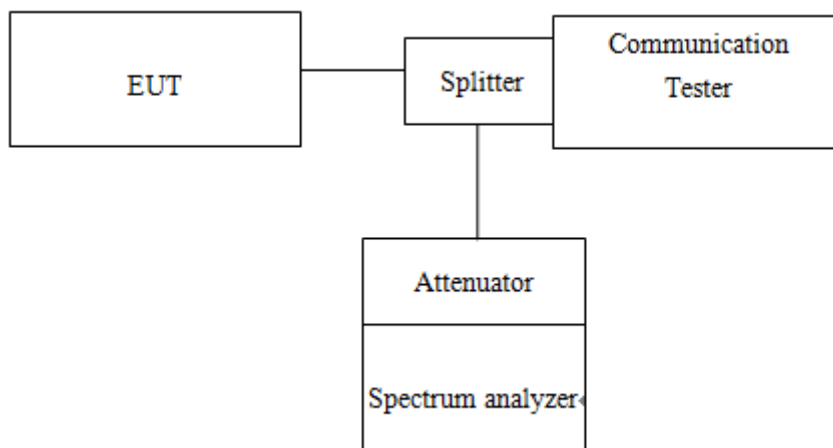
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9.2. Test SET-UP



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 $RBW \geq 1\% EBW$.
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	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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Band14_5MHz_QPSK_1_0_Low



Band14_5MHz_QPSK_1_24_High



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Band14_10MHz_QPSK_1_49_High



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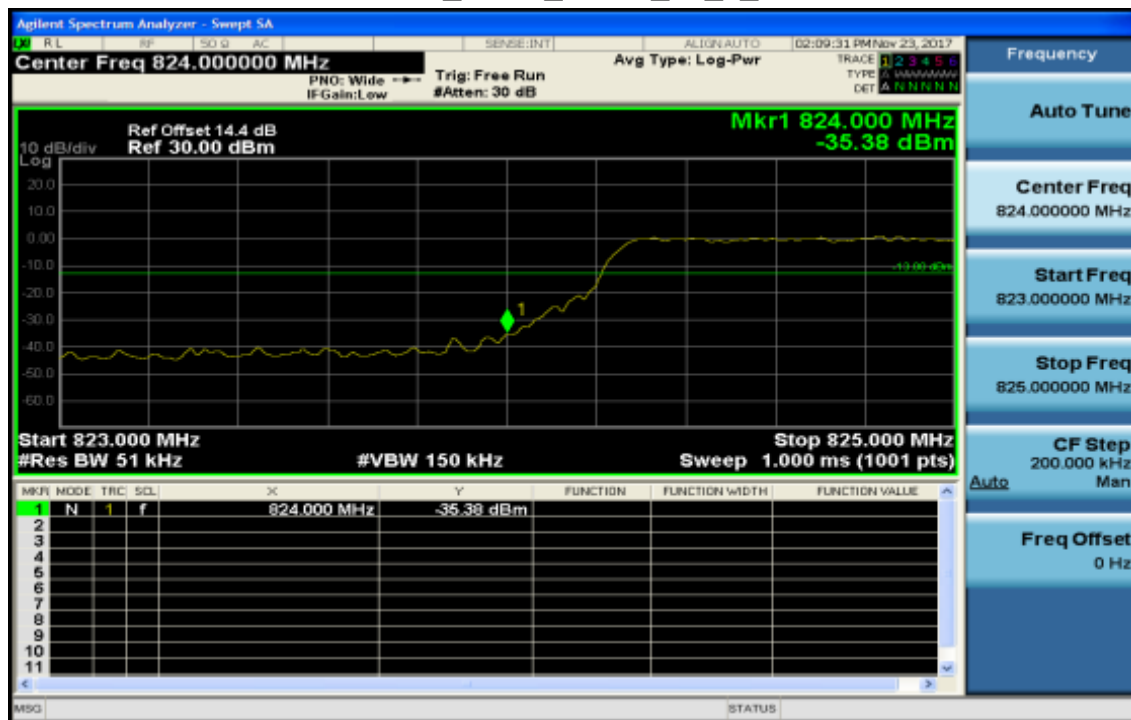
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For Part 90S Band18_5MHz_QPSK_1_0_Low



For Part 90S Band18_5MHz_QPSK_1_24_High



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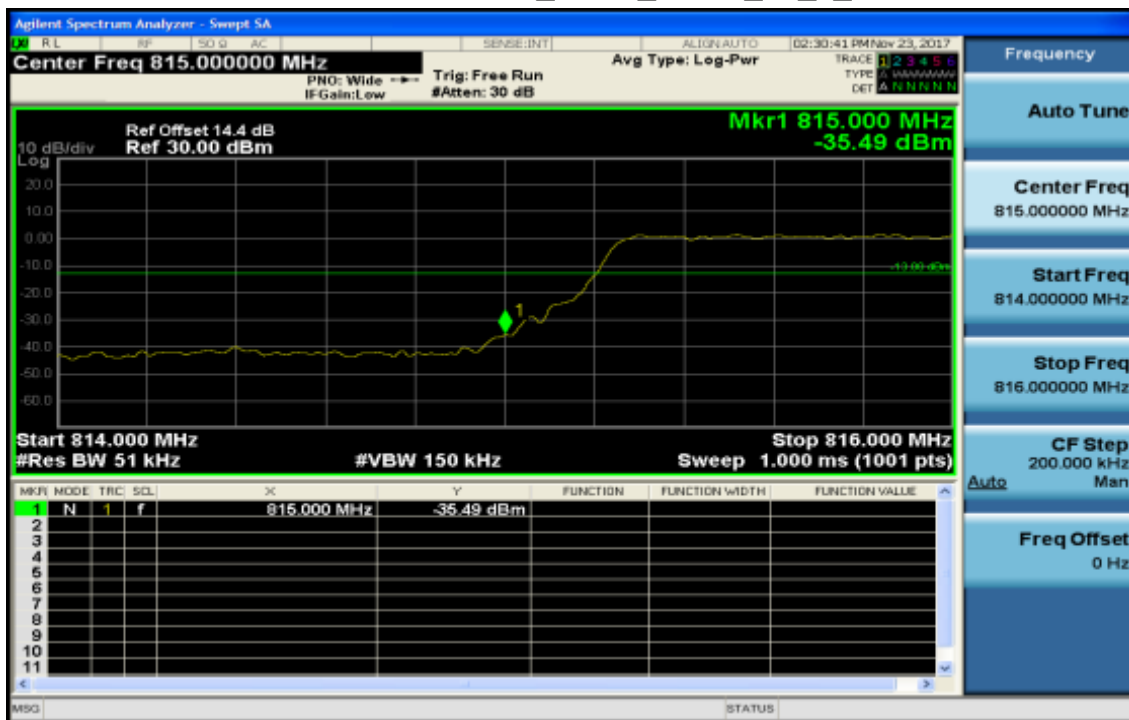
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For Part 90S Band18_5MHz_QPSK_25_0_Low



For Part 90S Band18_5MHz_QPSK_25_0_High



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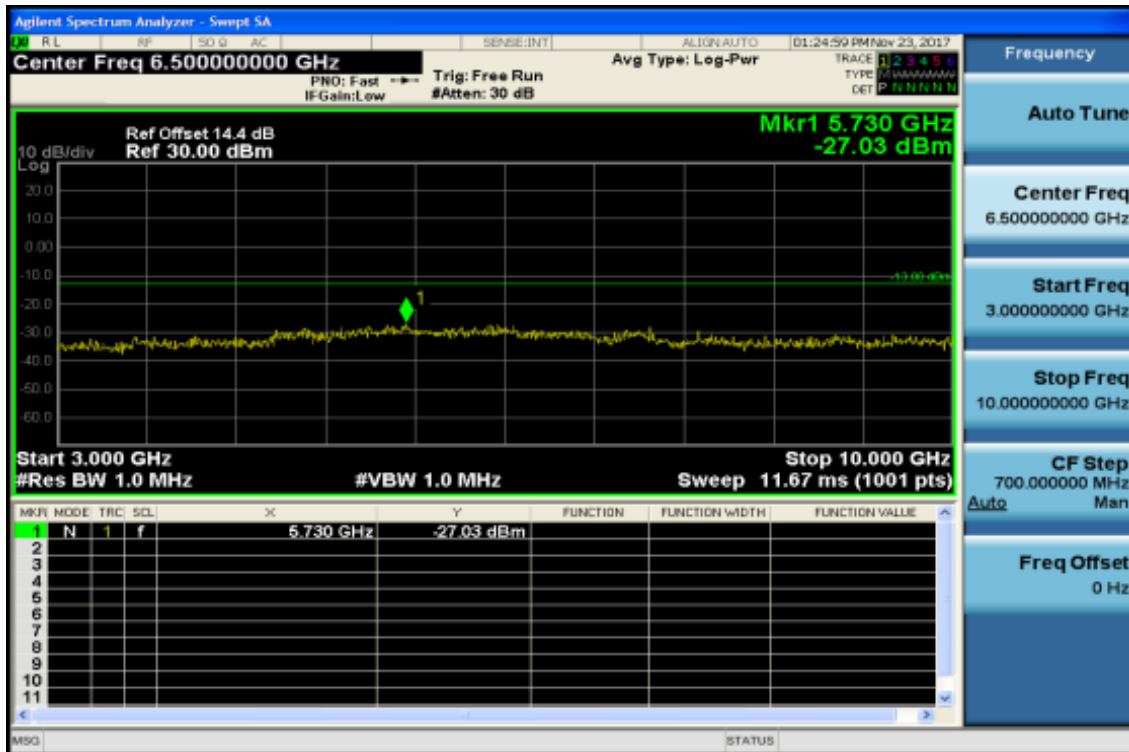
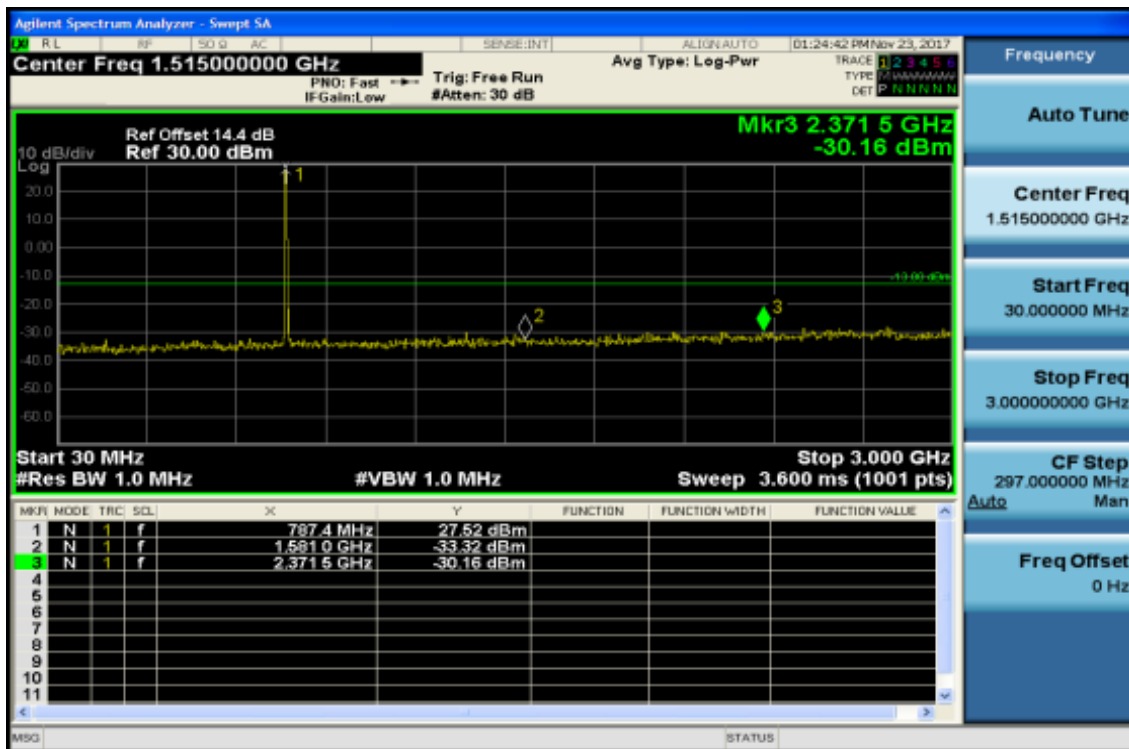
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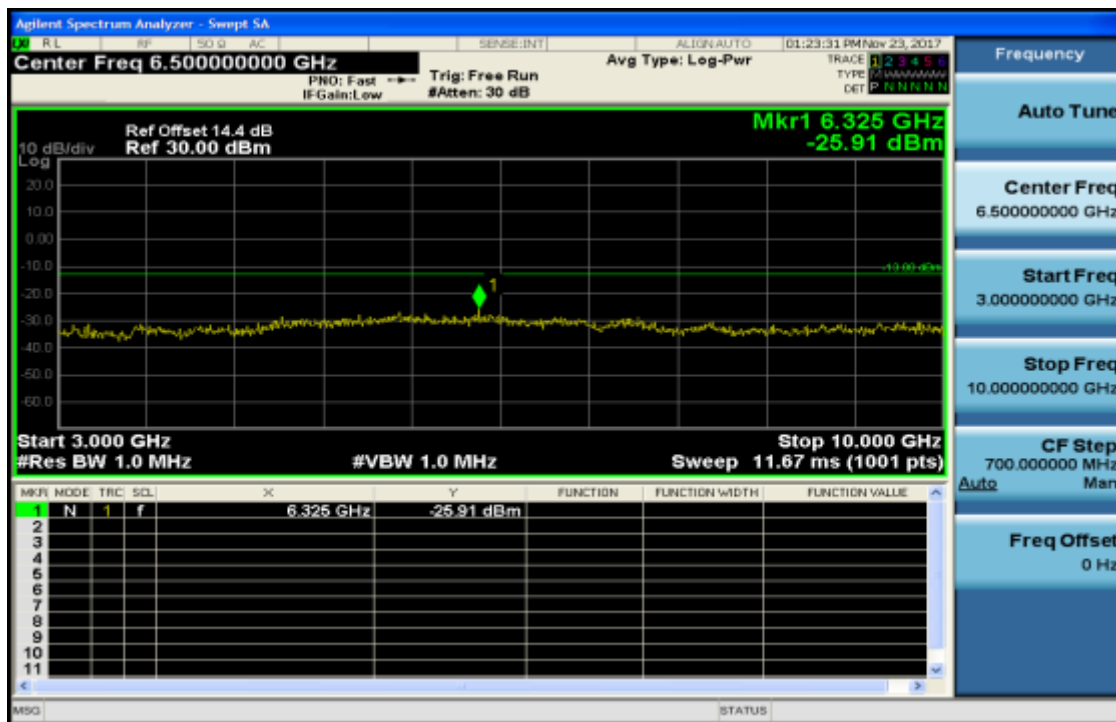
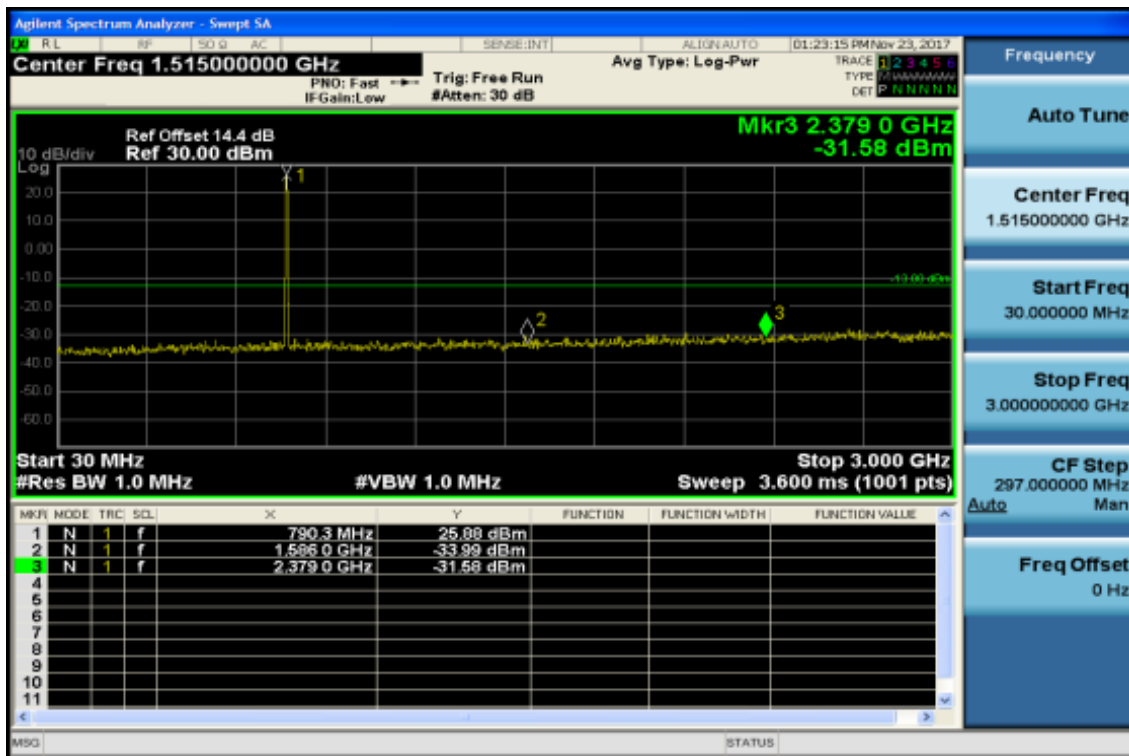
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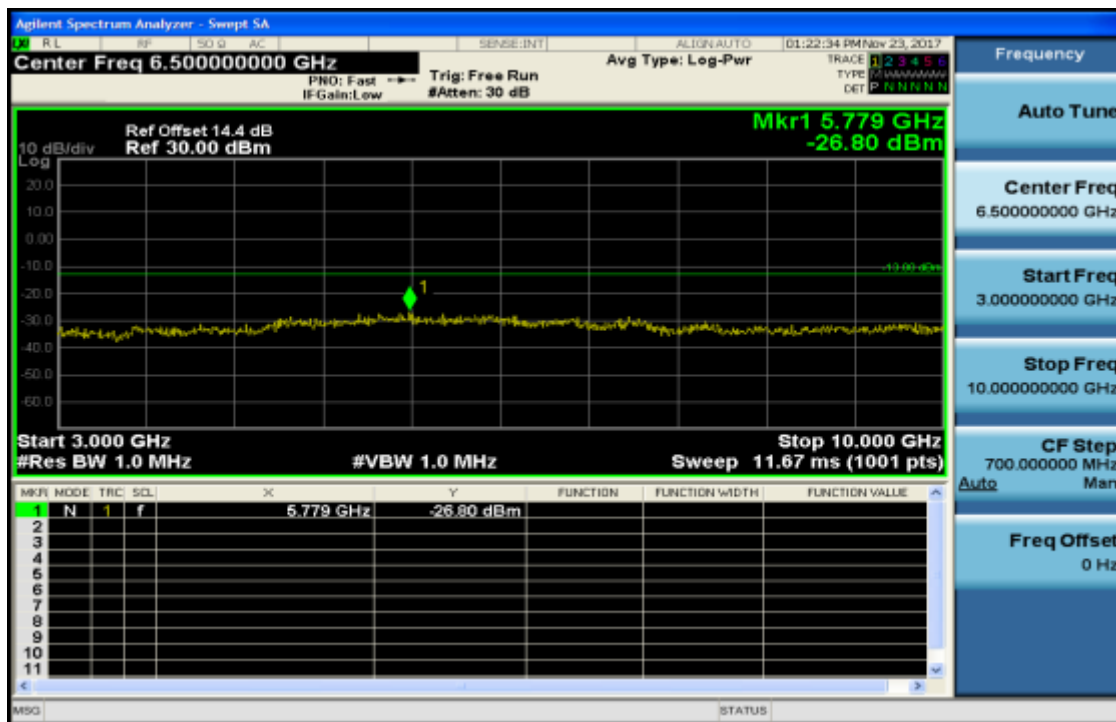
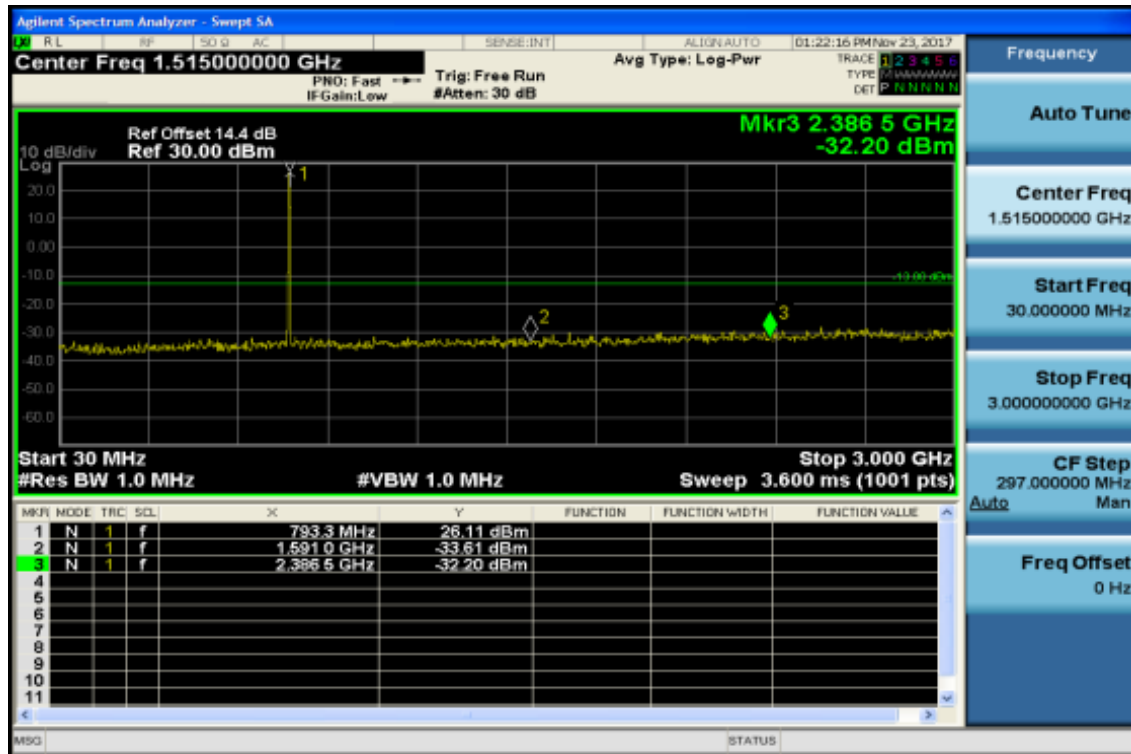
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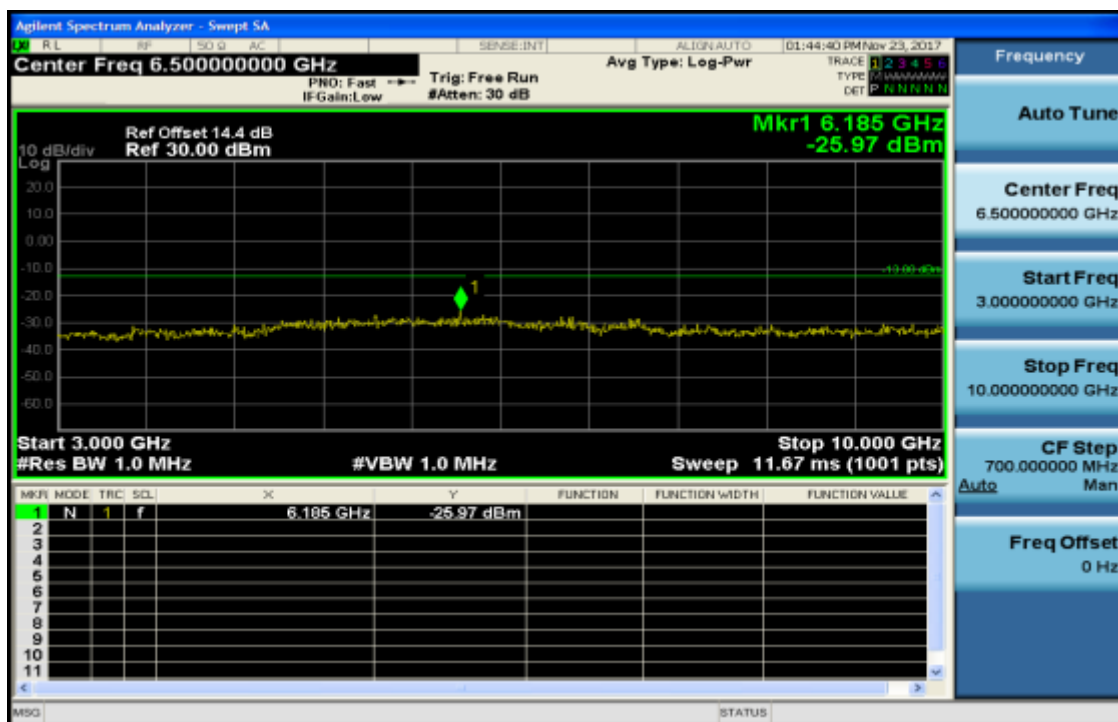
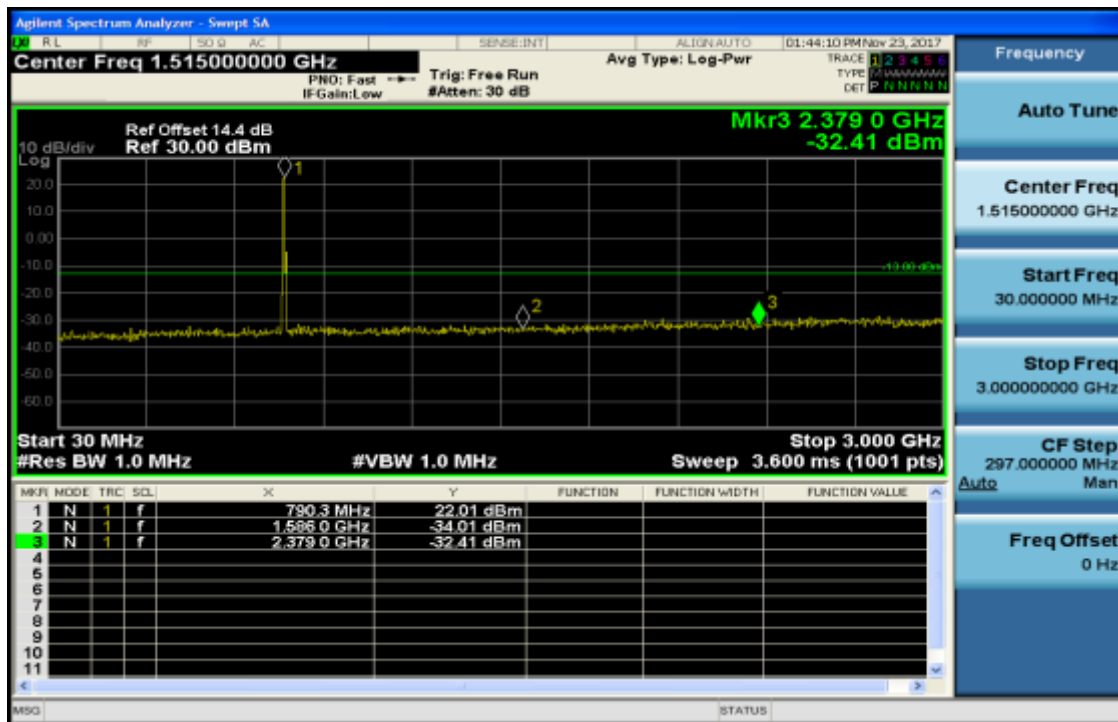
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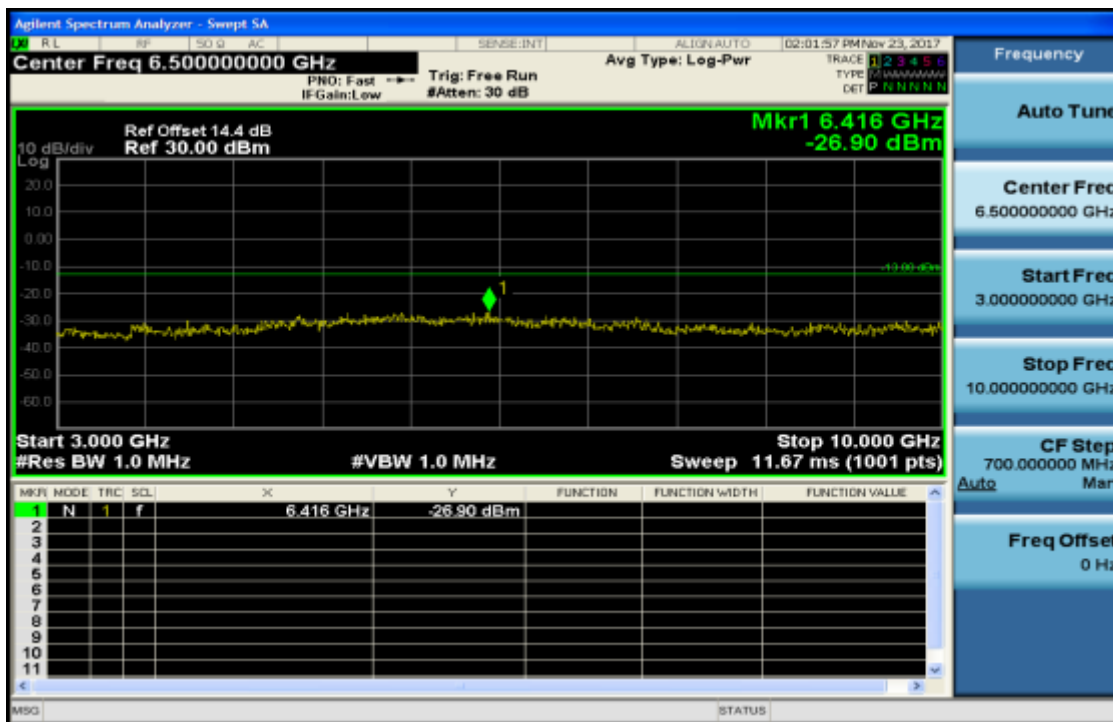
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Band18_5MHz_QPSK_1_0_Low



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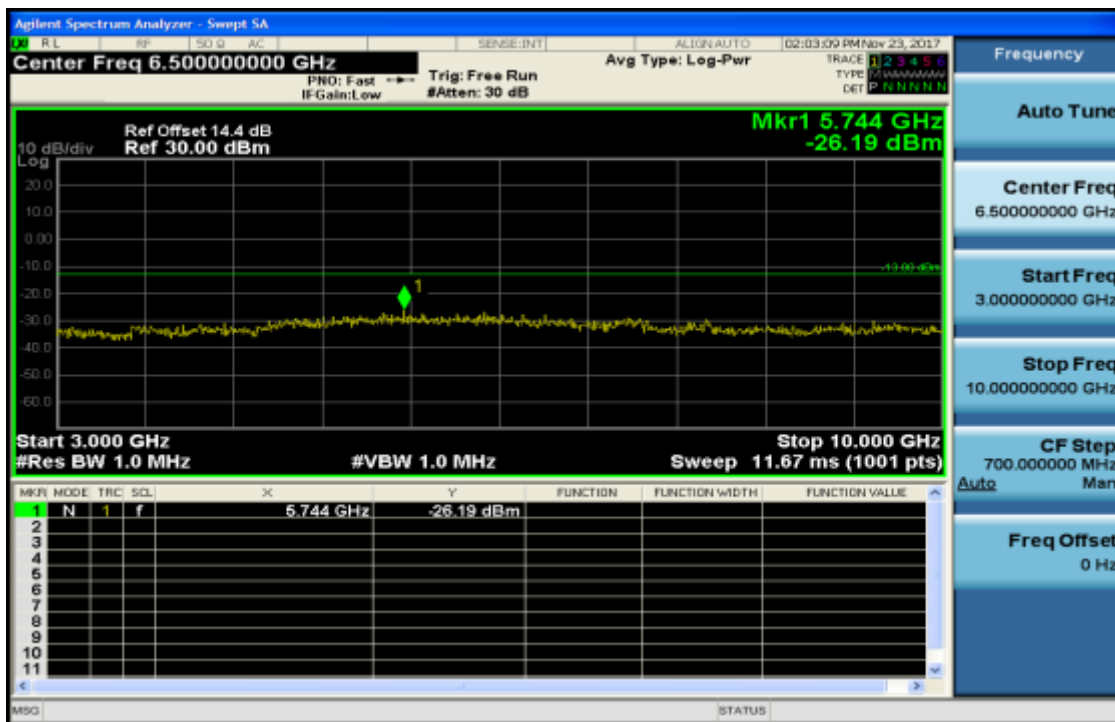
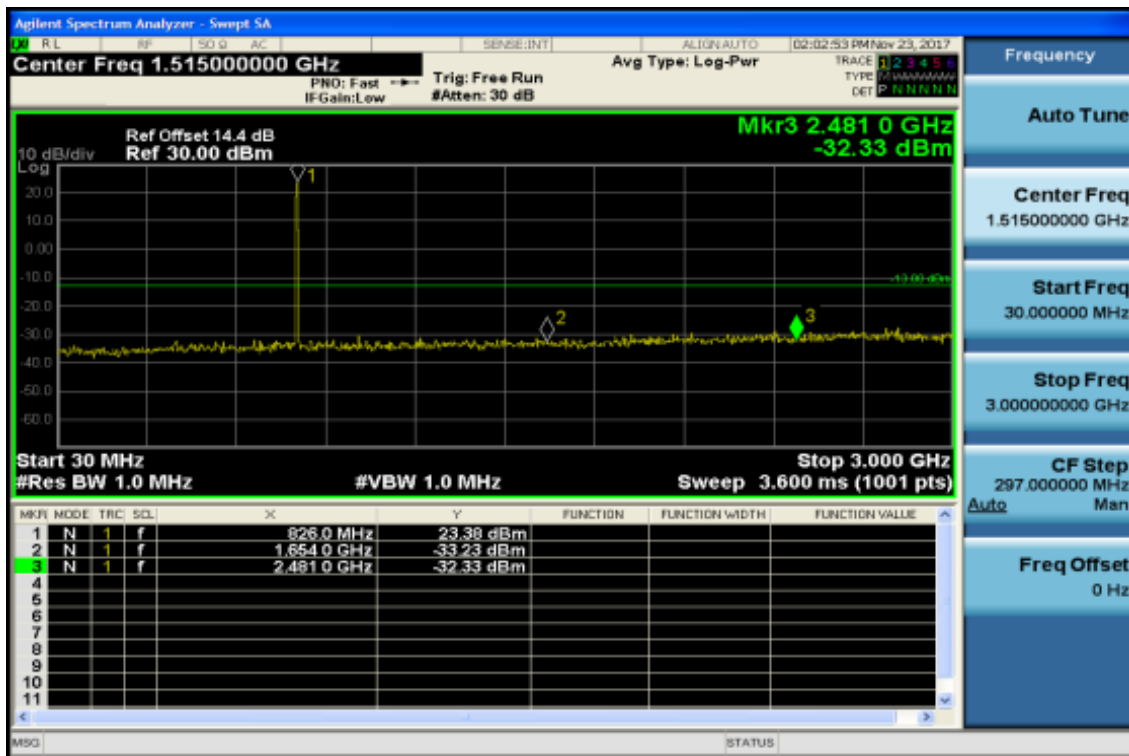
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台灣檢驗科技股份有限公司

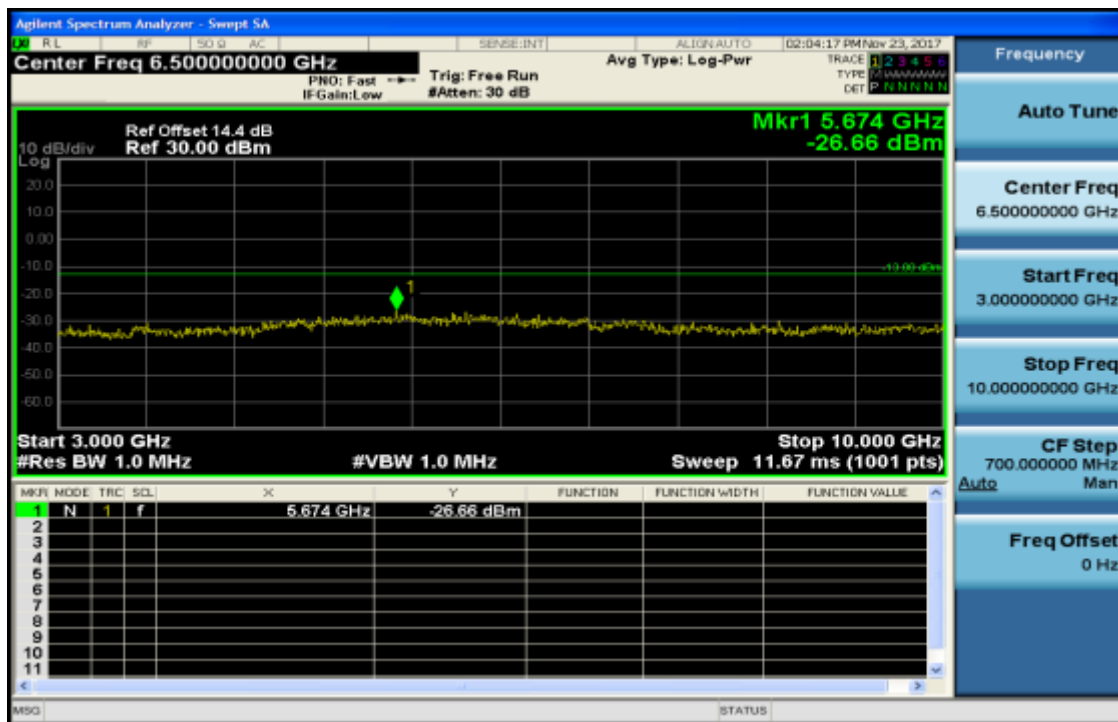
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Band18_5MHz_QPSK_1_0_High



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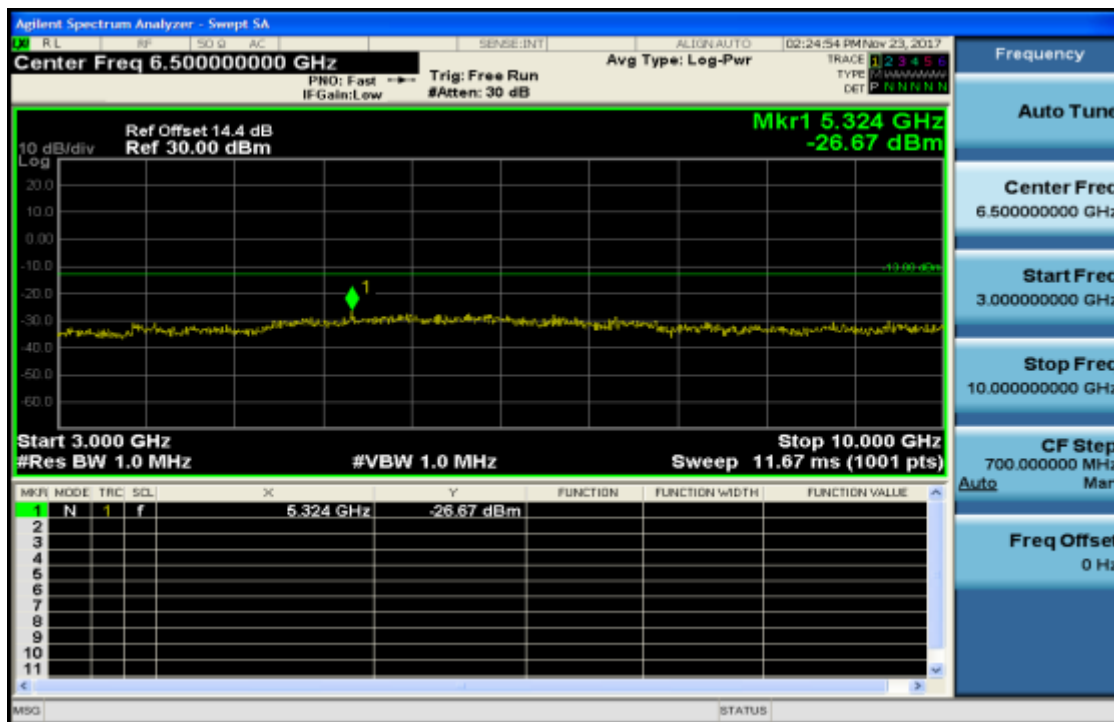
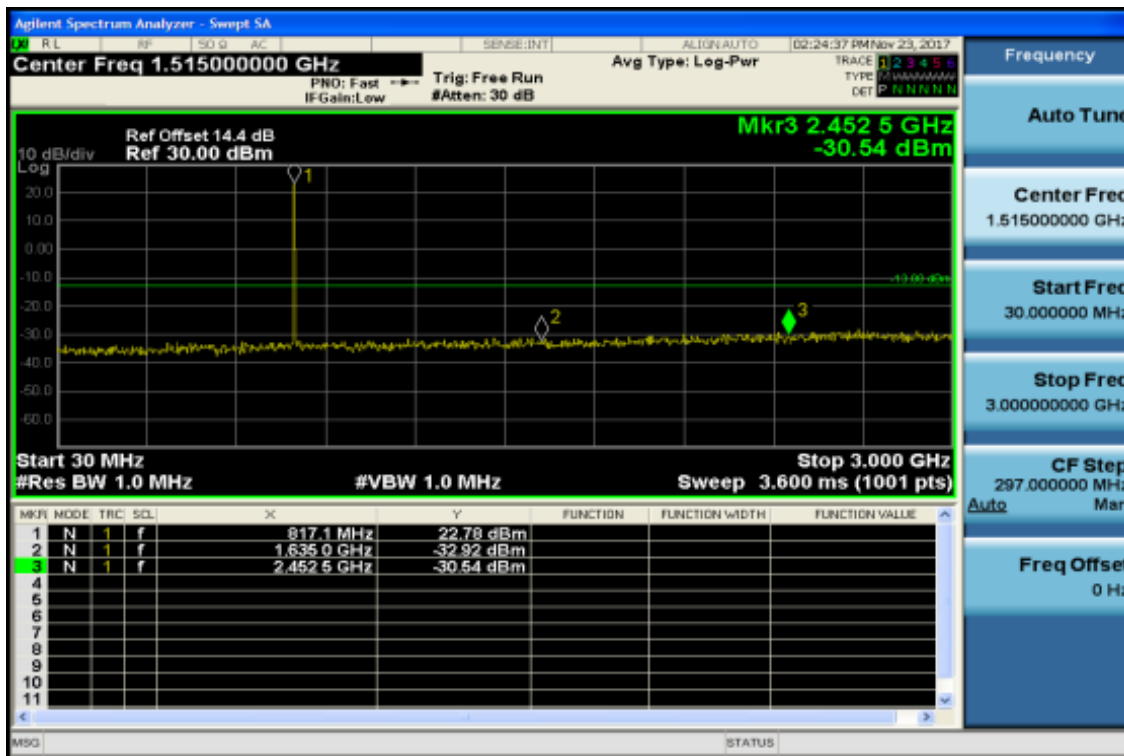
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For Part 90S Band18_5MHz_QPSK_1_0_Low



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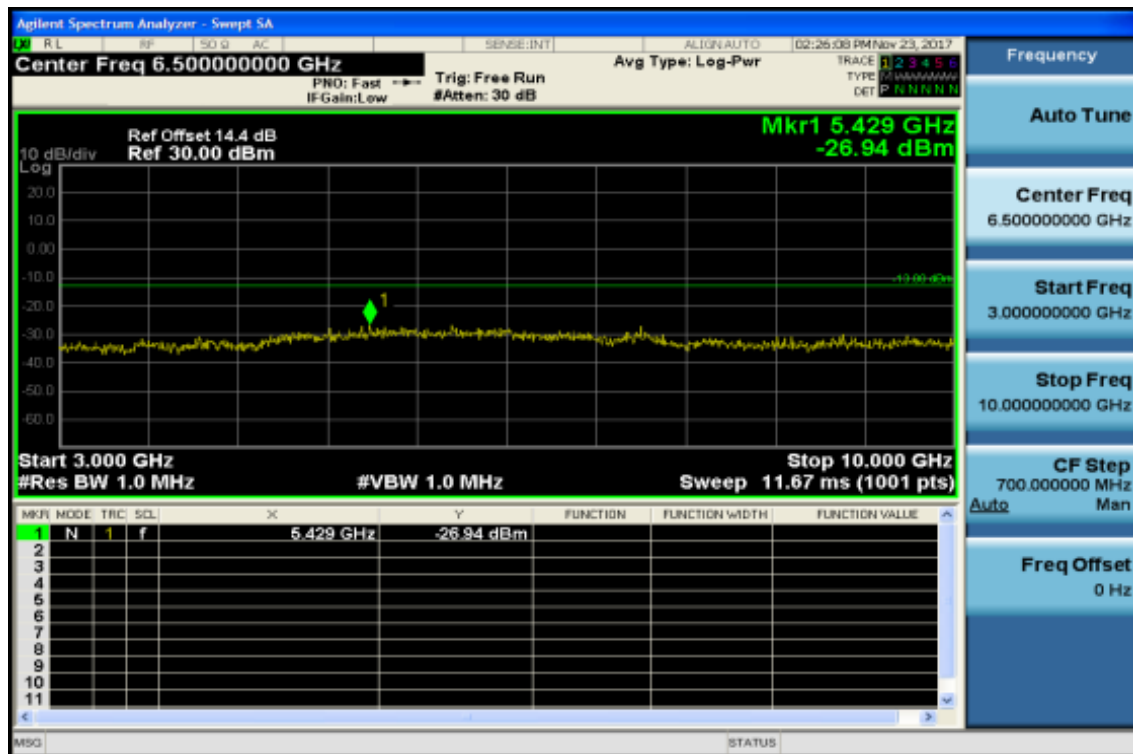
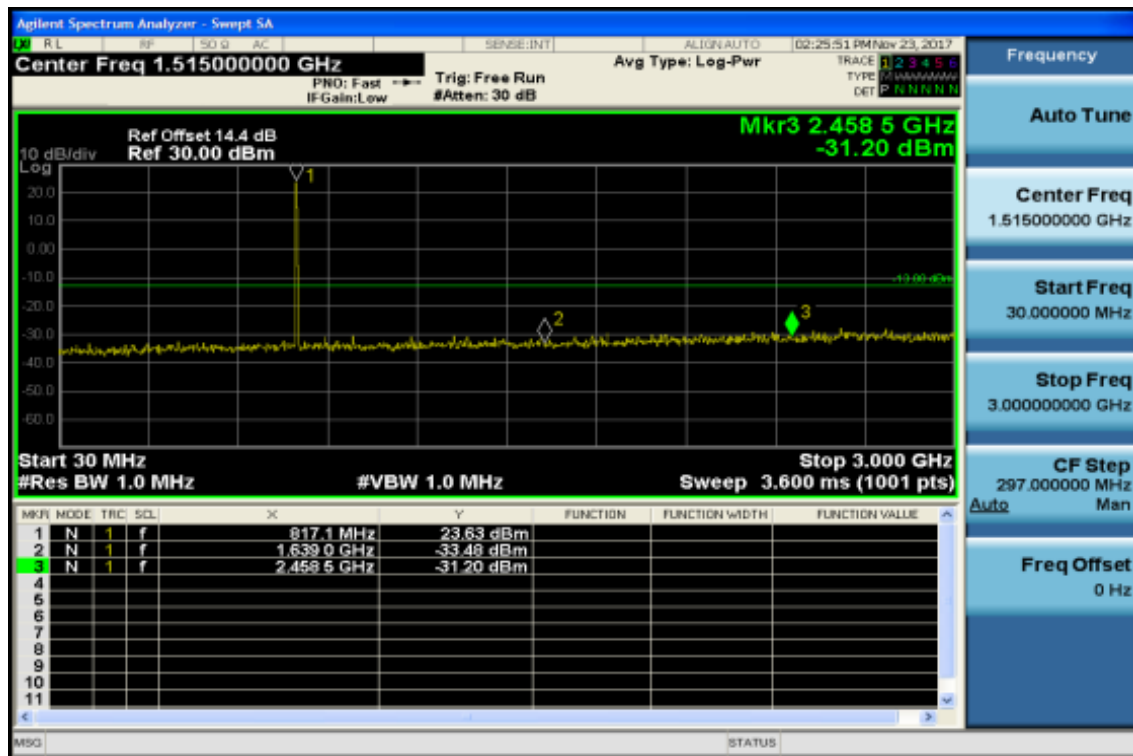
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For Part 90S Band18_5MHz_QPSK_1_0_Mid



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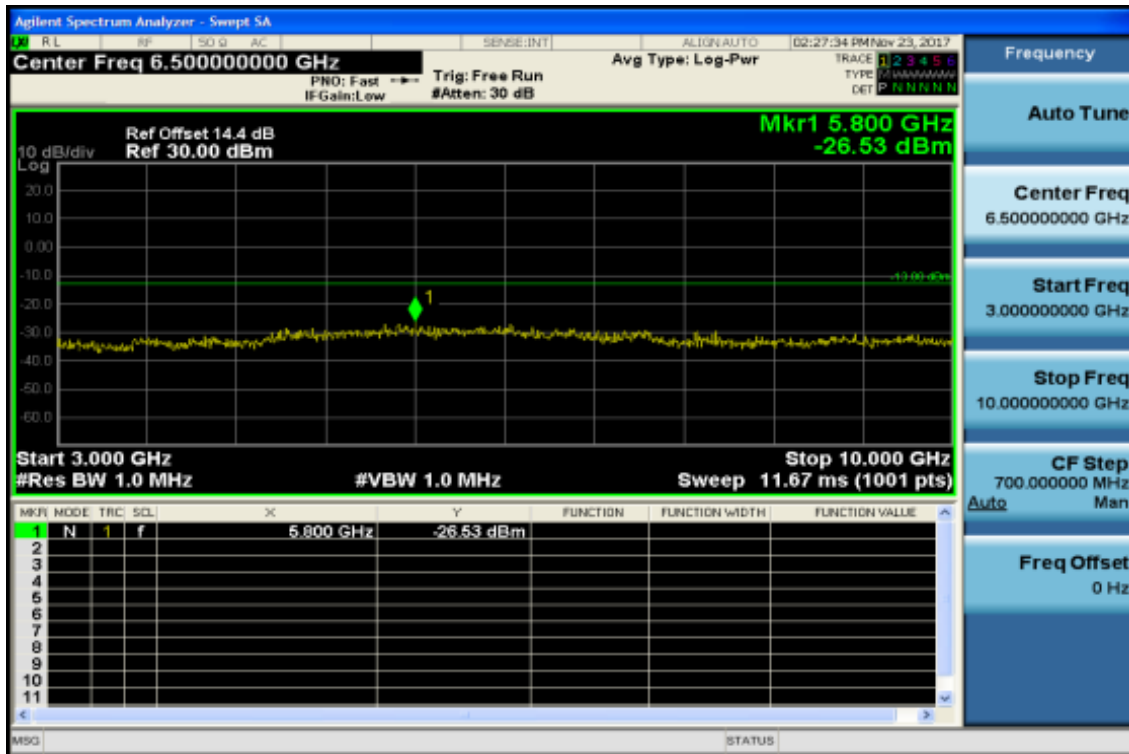
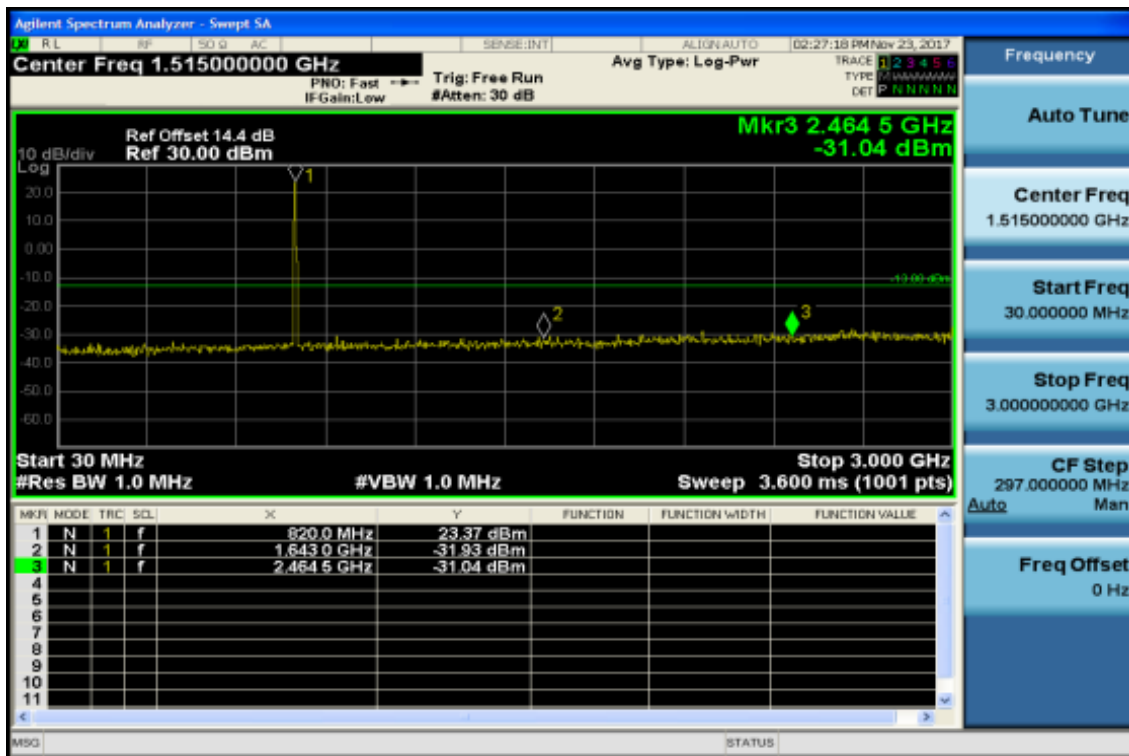
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For Part 90S Band18_5MHz_QPSK_1_0_High



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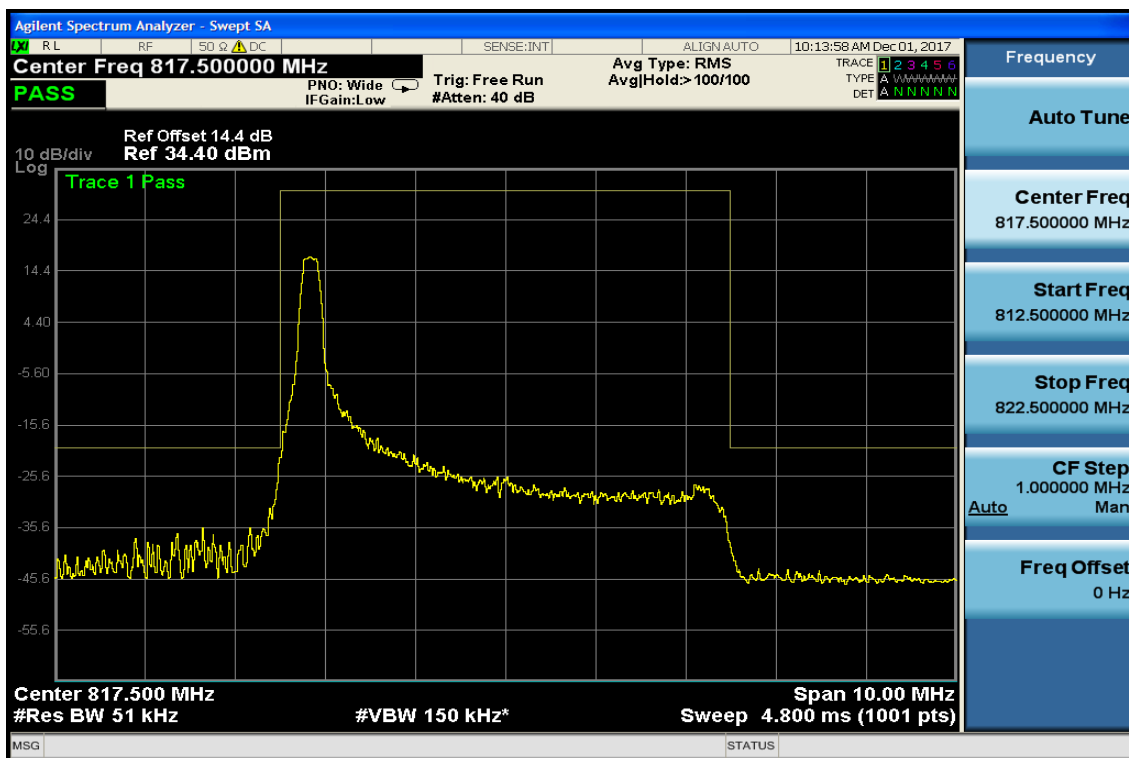
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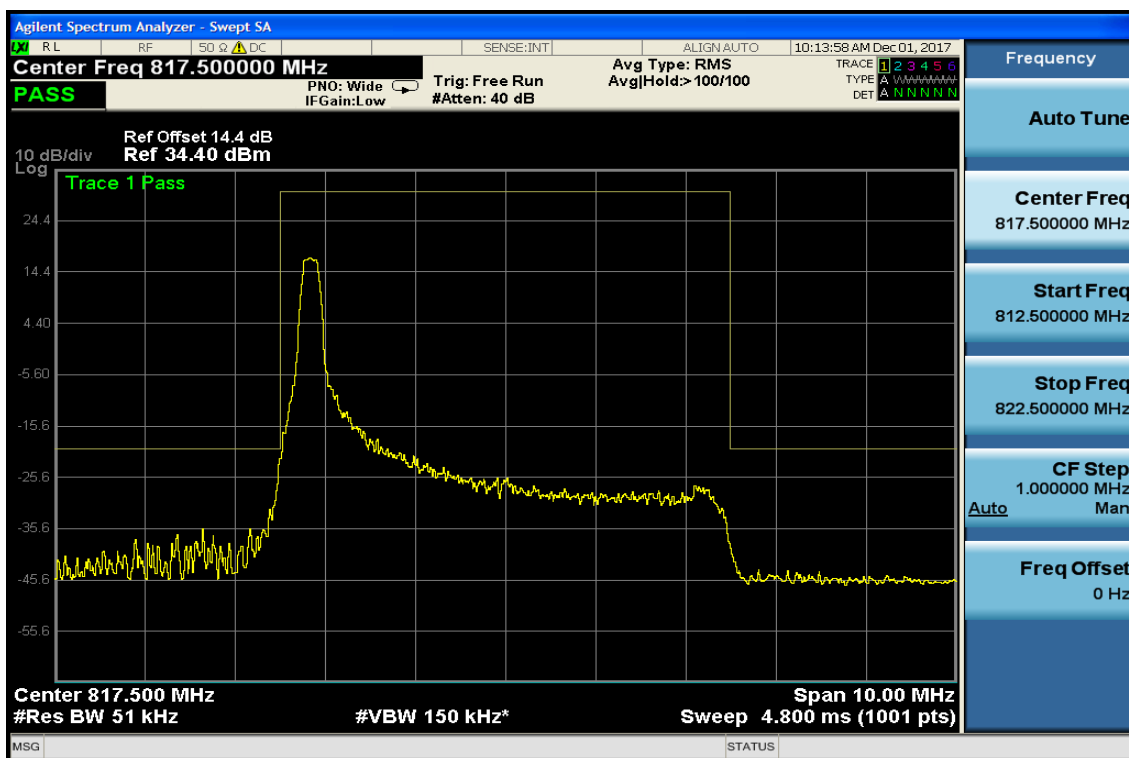
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Emission Mask B18 QPSK 5M 1 0 23875 Low



B18 QPSK 5M 1 0 23895 Mid



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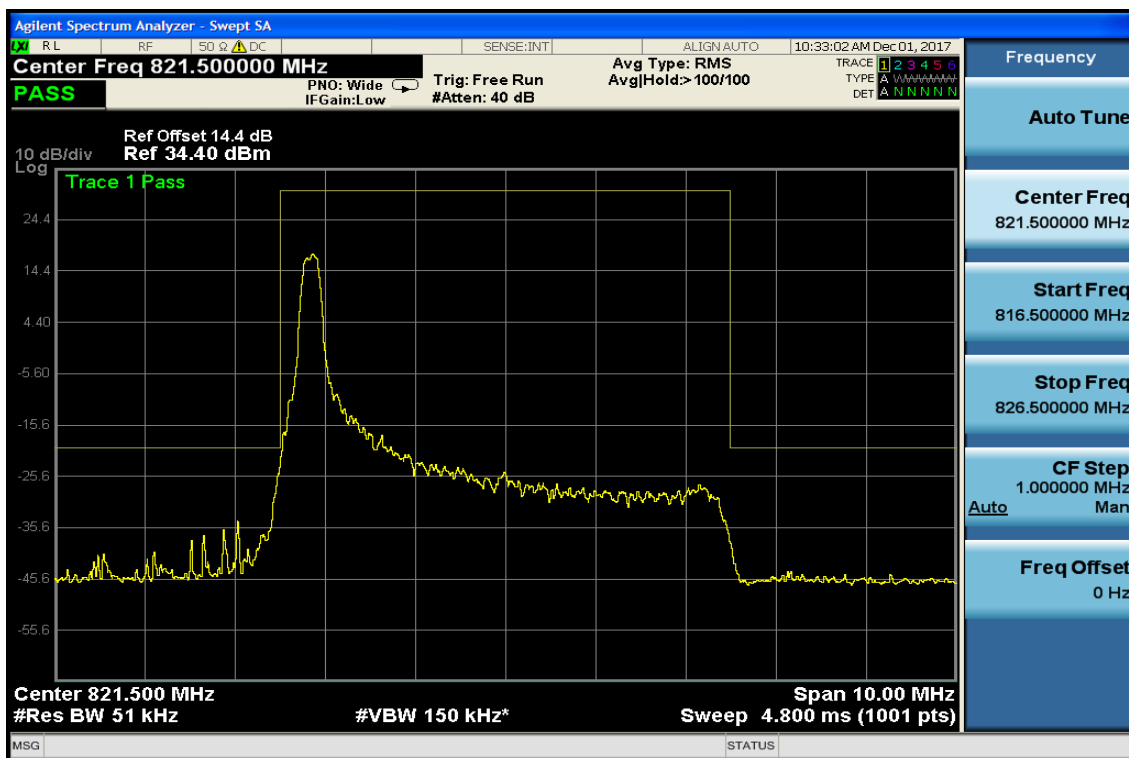
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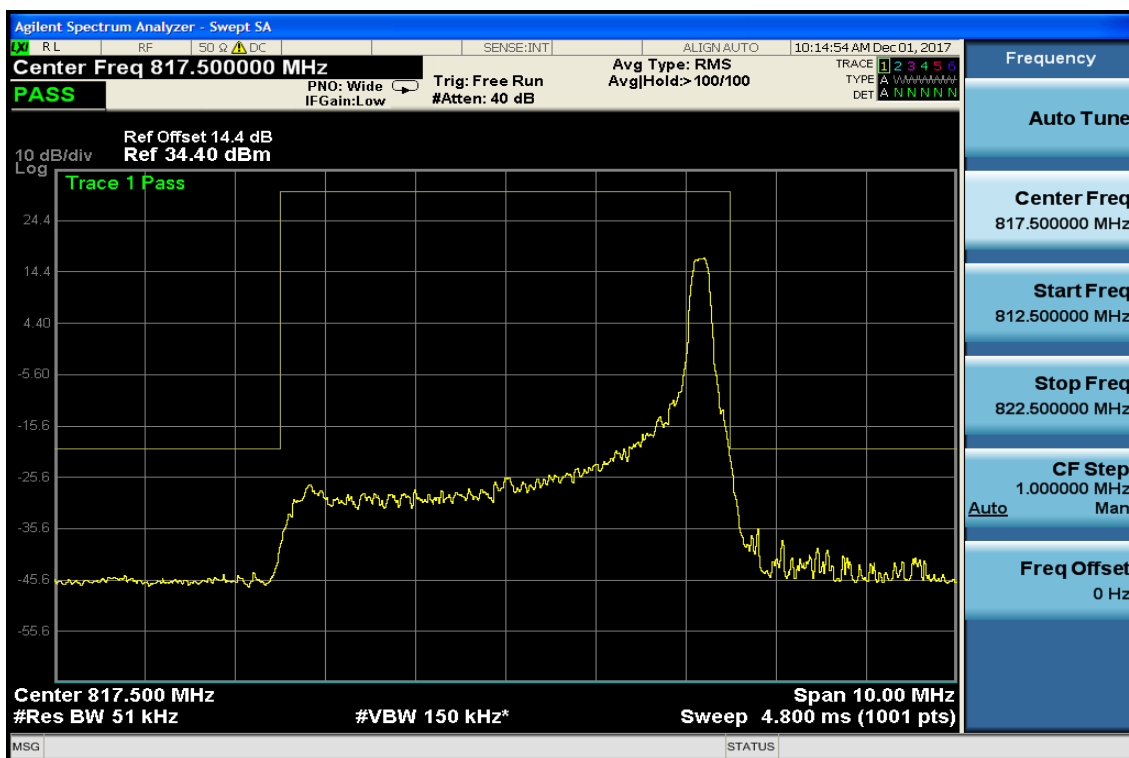
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B18 QPSK 5M 1 0 23915 High



B18 QPSK 5M 1 24 23875 Low



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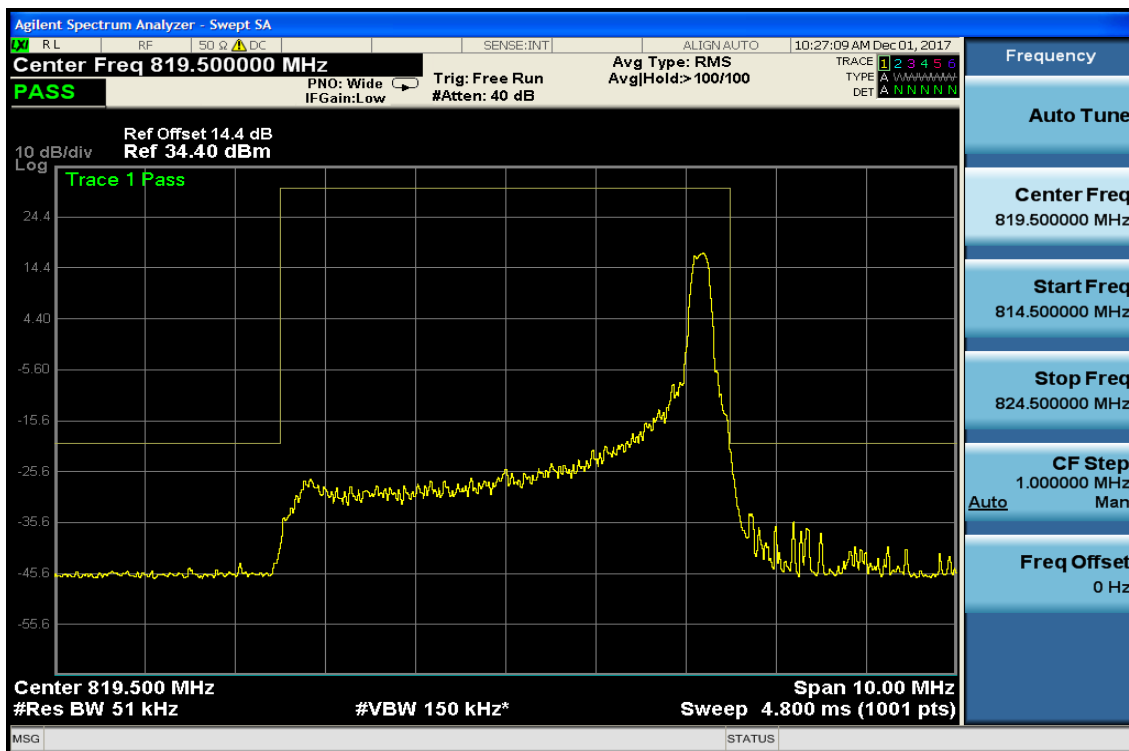
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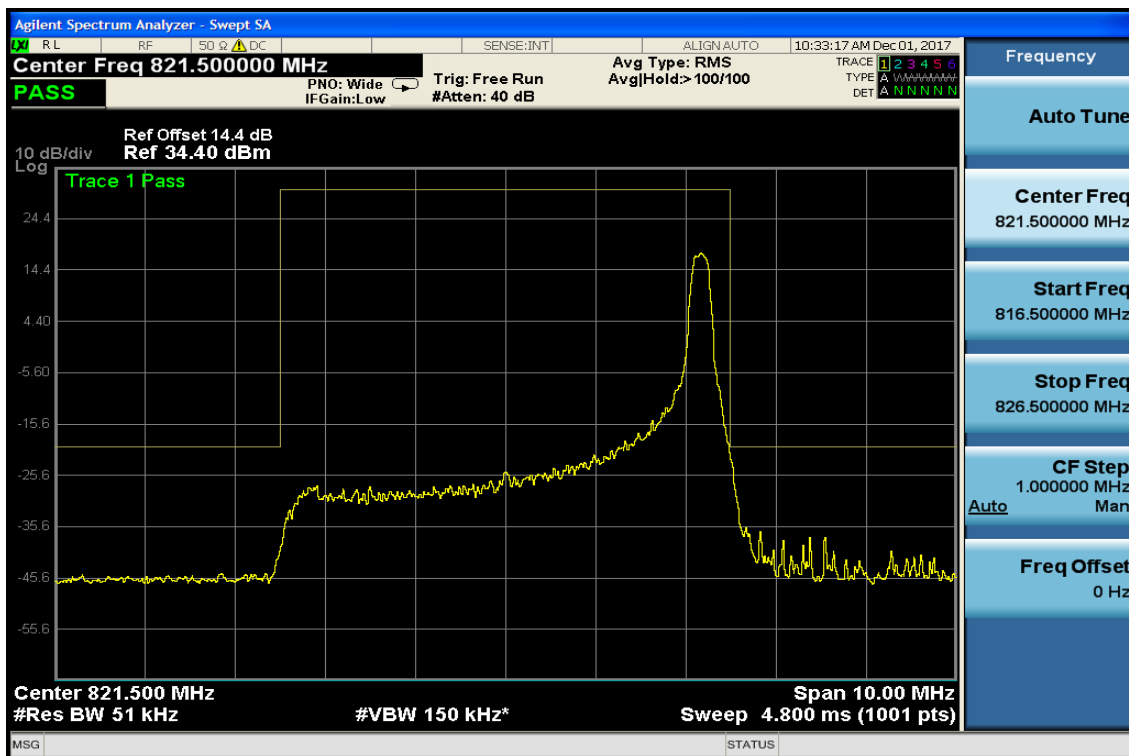
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B18 QPSK 5M 1 24 23895 Mid



B18 QPSK 5M 1 24 23915 High



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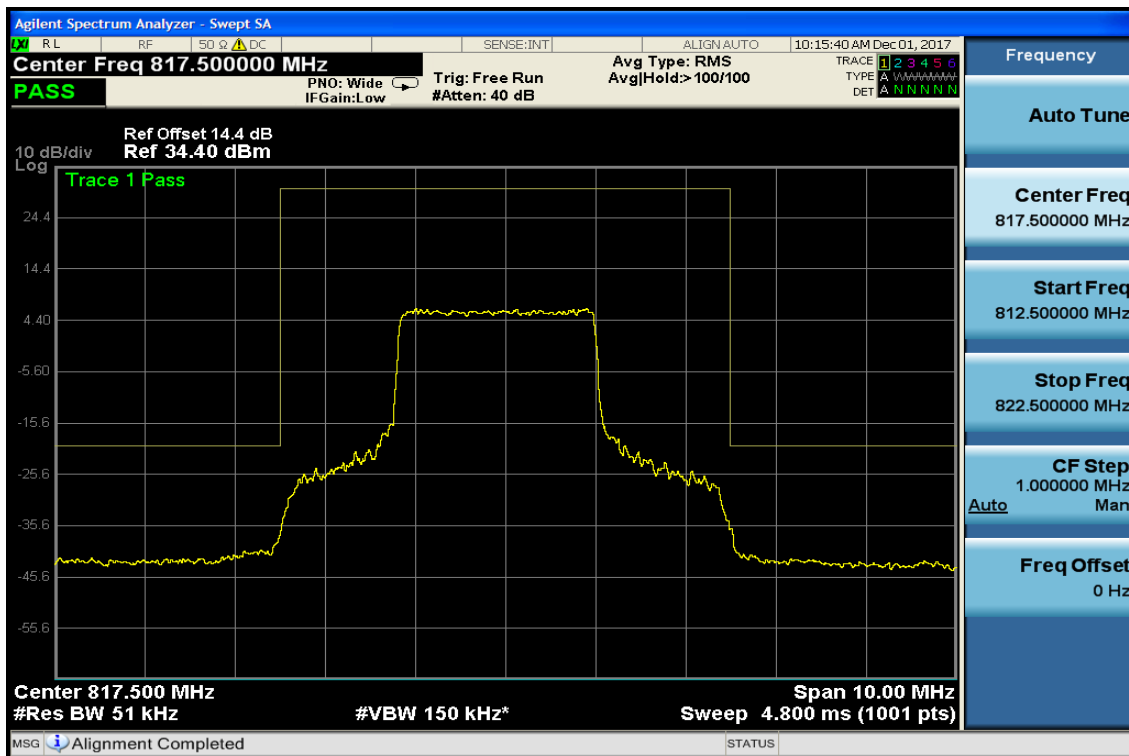
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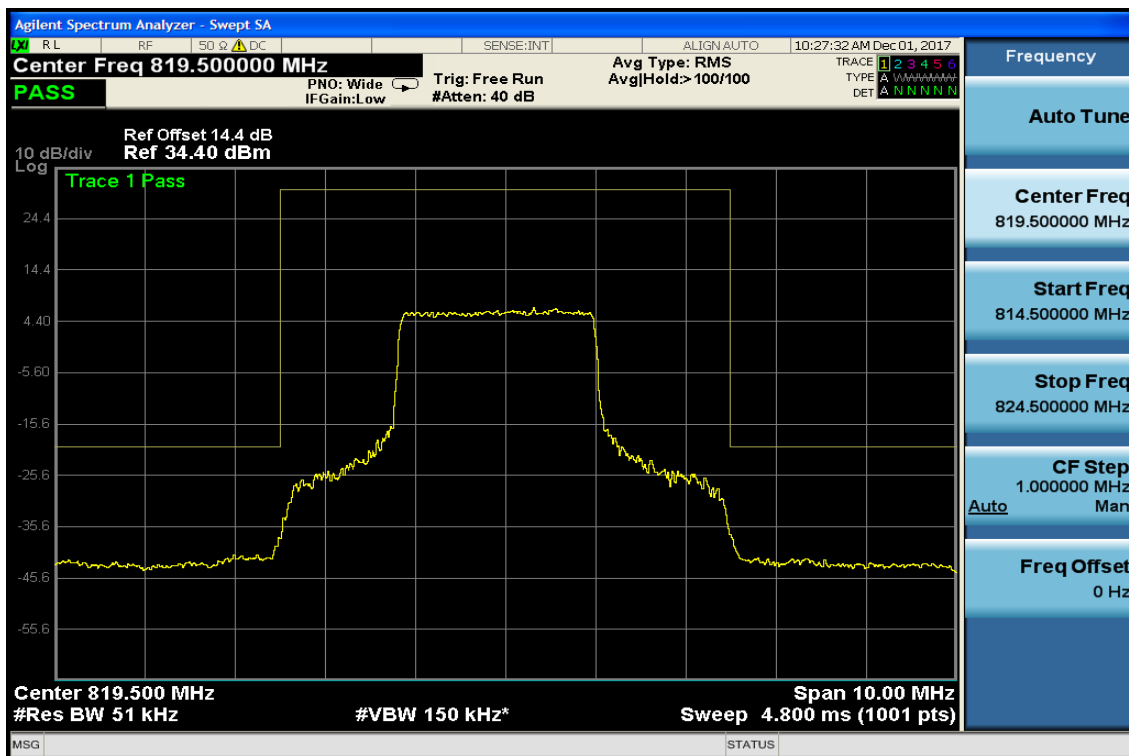
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B18 QPSK 5M 12 6 23875 Low



B18 QPSK 5M 12 6 23895 Mid



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