



RF TEST REPORT

Product Name: Mobile phone

Model Name: P41

FCC ID: 2ALJJP41

Issued For : PCD, LLC

1500 Tradeport Drive, Suite A, Orlando, United States 32824

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Chen Hsong Industrial Park,
No.177 Renmin West Road, Jinsha Community, Kengzi
Street, Pingshan New District, Shenzhen, China

Report Number: LGT22J010RF05

Sample Received Date: October 11, 2022

Date of Tested: October 11, 2022 – November 21, 2022

Date of Issue: November 24, 2022

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TEST REPORT CERTIFICATION

Applicant PCD, LLC
Address 1500 Tradeport Drive, Suite A, Orlando, United States
32824
Manufacturer PCD, LLC
Address 1500 Tradeport Drive, Suite A, Orlando, United States
32824
Product Name Mobile phone
Trademark N/A
Model Name P41
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 22H and 24E, 27 KDB 971168 D01 v03r01, ANSI C63.26(2015)	PASS

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Revision History

Rev.	Issue Date	Effect Page	Contents
00	November 24, 2022	ALL	Initial Issue

1. TEST FACTORY & MEASUREMENT UNCERTAINTY

1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China
Accreditation Certificate	FCC Registration No.: 746540
	A2LA Certificate No.: 6727.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 3.2 \%$
RF Output Power, Conducted	$\pm 0.87\text{dB}$
Power Spectral Density, Conducted	$\pm 2.11 \text{ dB}$
Unwanted Emission, Conducted	$\pm 0.86\text{dB}$
All Emissions, Radiated (Below 1GHz)	$\pm 3.54\text{dB}$
All Emissions, Radiated (1GHz-18GHz)	$\pm 4.22\text{dB}$
All Emissions, Radiated (18GHz-25GHz)	$\pm 4.81\text{dB}$
Temperature	$\pm 0.5^{\circ}\text{C}$
Humidity	$\pm 2\%$

2. GENERAL INFORMATION

2.1 TECHNICAL SPECIFICATIONS AND REGULATIONS

2.1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Name	Mobile phone
Trademark	N/A
Model Name	P41
Series Model	N/A
Model Difference	N/A
Frequency Bands	U.S. Bands: LTE FDD Band 4 LTE FDD Band 5 LTE FDD Band 12 LTE FDD Band 13 LTE FDD Band 66
SIM Card	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested.
Antenna	PIFA
Antenna gain	LTEB4: 1.15dBi, LTEB5:1.31dBi, LTEB12/B13:1.07dBi LTEB66: 1.15dBi,
Battery parameter	Capacity: 1400mAh Rated Voltage: 3.8 V Charge Limit Voltage:4.2V
Adapter	Input: 100-240V, 50-60Hz, 0.2A Ouput: 5V, 0.5A
Extreme Vol. Limits	4.2V to 3.6V (Nominal 3.8V)
Extreme Temp. Tolerance	-0°C to +40°C
Hardware version number	MM3971_MB_V1.0
Software version number	PCD_P41_CLARO_PR_V1.0

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sa-mple identified in the report.

2.1.2 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Product Specification Subjective To This Standard	
Tx Frequency	LTE Band 4:1710~1755MHz LTE Band 5:824~849MHz LTE Band 12:699~716MHz LTE Band 13:777~787MHz LTE Band 66:1710~1780MHz
Rx Frequency	LTE Band 4:2110~2155MHz LTE Band 5:869~894MHz LTE Band 12:729~746MHz LTE Band 13:746~756MHz LTE Band 66:2110~2200MHz
Bandwidth	LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /20MHz LTE Band 5: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 12: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13: 5MHz / 10MHz LTE Band 66: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /20MHz
Maximum Output Power	LTE Band 4: 22.47 dBm LTE Band 5: 23.48 dBm LTE Band 12: 23.42 dBm LTE Band 13: 23.39 dBm LTE Band 66: 22.39 dBm
Type of Modulation	QPSK /16QAM, 64QAM

2.1.3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 v03r01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power. Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Remark:

1. The mark 'v' means that this configuration is chosen for testing
2. The mark '-' means that this bandwidth is not supported.
3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated.

ITEMS	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v			v	v	v	v	v	v	v	v
	12			v	v	v	v	v	v	v	v	v	v	v	v
	13			v	v			v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak&Avera Ratio	4						v	v	v	v		v	v	v	v
	5				v			v	v	v		v	v	v	v
	12						v	v	v	v		v	v	v	v
	13				v			v	v	v		v	v	v	v
	66						v	v	v	v		v	v	v	v
26dB&99% Bandwidth	4	v	v	v	v	v	v	v	v			v	v	v	v
	5	v	v	v	v			v	v			v	v	v	v
	12			v	v	v	v	v	v			v	v	v	v
	13			v	v			v	v			v	v	v	v
	66	v	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	4	v	v	v	v	v	v	v	v	v		v	v	v	v
	5	v	v	v	v			v	v	v		v	v	v	v
	12			v	v	v	v	v	v	v		v	v	v	v
	13			v	v			v	v	v		v	v	v	v
	66	v	v	v	v	v	v	v	v	v		v	v	v	v
Conducted Spurious Emission	4	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v			v	v	v			v	v	v
	12			v	v	v	v	v	v	v			v	v	v
	13			v	v			v	v	v			v	v	v
	66	v	v	v	v	v	v	v	v	v			v	v	v

Frequency Stability	4				v			v				v		v	
	5				v			v				v		v	
	12				v			v				v		v	
	13				v			v				v		v	
	66				v			v				v		v	
E.R.P.& E.I.R.P.	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v			v	v	v	v	v	v	v	v
	12			v	v	v	v	v	v	v	v	v	v	v	v
	13			v	v			v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	4	v	v	v	v	v	v	v		v			v	v	v
	5	v	v	v	v			v		v			v	v	v
	12			v	v	v	v	v		v			v	v	v
	13			v	v			v		v			v	v	v
	66	v	v	v	v	v	v	v		v			v	v	v

2.1.4 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for filing to comply with the 47 CFR Part 2, 24(E), 27.

2.1.5 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with eut intended for fcc grant together.

2.1.6 EUT CONFIGURATION

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

2.1.7 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

2.1.8 CONFIGURATION OF EUT SYSTEM

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

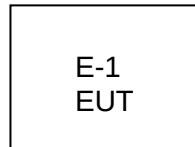


Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	Length	Note
N/A	Earphone	39630078	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.

2.1.9 MEASUREMENT INSTRUMENTS

The radiated emission testing was performed according to the procedures of ANSI C63.26 2015 and FCC CFR 47 rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2022.04.12	2023.04.11
Active loop Antenna	R&S	HFH2-Z2	POS871398181	2022.06.02	2024.06.01
Spectrum Analyzer	Kesight	N9010B	MY60242508	2022.04.29	2023.04.28
Bilog Antenna	SCHAFFNER	CBL6112B	2705	2022.06.05	2024.06.04
Horn Antenna	SCHWARZBECK	3115	10SL0060	2022.06.02	2024.06.01
Pre-amplifier(0.1M-3GHz)	HP	8447D	2727A05655	2022.04.11	2023.04.10
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2022.04.13	2023.04.12
RE Cable (9K-1G)	N.A	R01	N.A	2022.05.05	2023.05.04
RE Cable (1-26G)	N.A	R02	N.A	2022.05.05	2023.05.04
Wireless Communications Test Set	R&S	CMW 500	137737	2022.04.29	2023.04.28
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Testing Software	EMC-I_V1.4.0.3_SKET				

Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	keysight	N9010B	MY60242508	2022.04.29	2023.04.28
Wireless Communications Test Set	R&S	CMW 500	137737	2022.04.29	2023.04.28
MXG Vector Signal Generator	keysight	N5182B	MY59100717	2022.06.02	2023.06.01
RF Automatic Test system	MW	MW100-RFCB	MW220324LG-33	2022.04.29	2023.04.28
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2022.05.10	2023.05.09
Attenuator	eastsheep	90db	N.A	2022.04.29	2023.04.28
Router	WAVLINK	WL-WN575A2	WL1512260336	N.C.R	N.C.R
Router	TP-LINK	TL-WR885N	1125074010735	N.C.R	N.C.R
Testing Software	MTS8200_V2.0.0.0				

3. CONDUCTED OUTPUT POWER

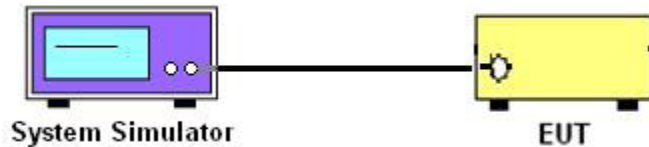
3.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

3.1.1 MEASUREMENT METHOD

A system simulator was used to establish communication with the eut. Its parameters were set to force the eut transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

Configuration follows KDB 971168 D01 v03r01.

3.1.2 TEST SETUP



3.1.3 TEST PROCEDURES

1. The transmitter output port was connected to system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest/middle/highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

3.1.4 TEST RESULTS

Note: Test chart See Appendix II

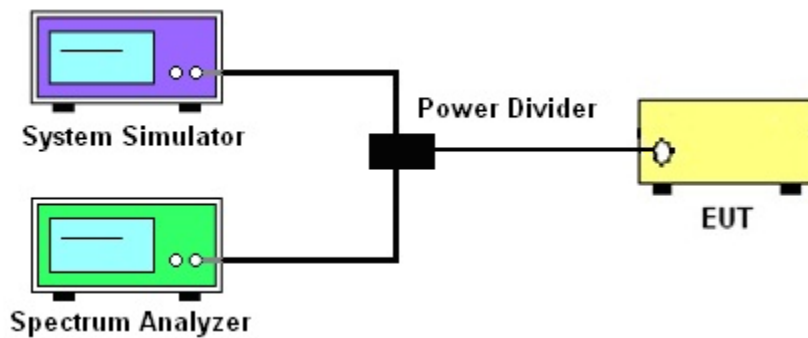
4. PEAK-TO-AVERAGE RATIO

4.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

4.1.1 MEASUREMENT METHOD

Use one of the procedures presented in 4.1.3 to measure the total peak power and record as P_{Pk}. Use one of the applicable procedures presented 4.1.3 to measure the total average power and record as P_{Avg}. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:
 $PAPR (dB) = P_{Pk} (dBm) - P_{Avg} (dBm)$.

4.1.2 TEST SETUP



4.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.7 and ANSI C63.26 2015 Section 5.2.6.
2. The EUT was connected to spectrum and system simulator via a power divider
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure the peak and average power of the spectrum analyzer
5. Record the deviation as Peak to Average Ratio.

	LTE					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz
Detector	PK/AVG	PK/AVG	PK/AVG	PK/AVG	PK/AVG	PK/AVG
Trace	Max	Max	Max	Max	Max	Max
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto

4.1.4 TEST RESULTS

Note: Test chart See Appendix II

5. RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

5.1 DESCRIPTION OF THE ERP/EIRP MEASUREMENT

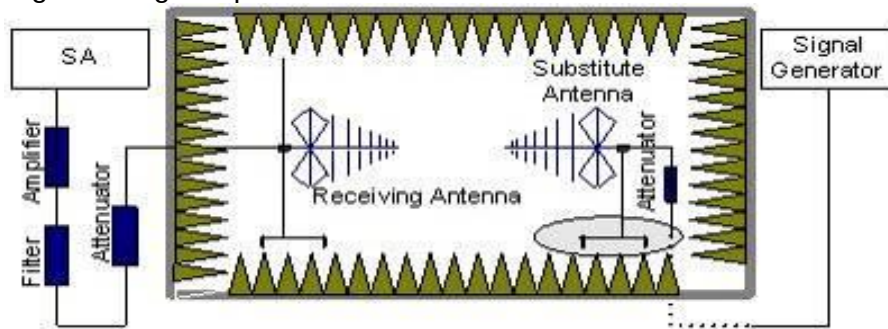
5.1.1 MEASUREMENT METHOD

Effective radiated power output measurements by substitution method according to ANSI C63.26 2015, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems. Mobile and portable (hand-held) stations operating are limited to average ERP, Equivalent isotropic radiated power output measurements by substitution method according to ANSI C63.26 2015, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas, Mobile and portable (hand-held) stations operating are limited to average EIRP.

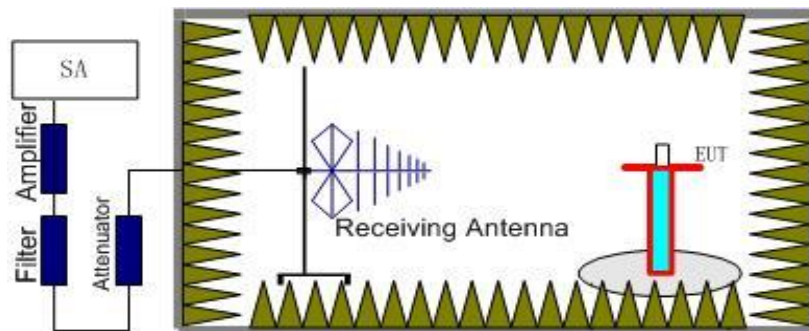
5.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, $RSE = R_x \text{ (dBuV)} + CL \text{ (dB)} + SA \text{ (dB)} + \text{Gain (dBi)} - 107 \text{ (dBuV to dBm)}$ The SA is calibrated using following setup.



b) EUT was placed on a 1.5m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic measured with peak detector and 1MHz bandwidth.



Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below:

$\text{Power} = \text{PMea} + \text{ARpl}$

5.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01v03r01 Section 5.6 and ANSI C63.26 2015 Section 5.2.
2. The EUT was placed on a non-conductive rotating platform 1.5 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with Peak detector.
3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 m in both horizontally and vertically polarized orientations.
4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to ANSI C63.26 2015. The EUT was replaced by dipole antenna (substitution antenna) at same location and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. $EIRP = S.G \text{ Level} + \text{Gain} - \text{Cable loss}$; $ERP = S.G \text{ Level} + \text{Gain} - \text{Cable loss} - 2.15$.
5. RB Set greater than bandwidth, VB Set spectrum analyzer Maximum support.

5.1.4 TEST RESULTS

Note: Test is divided into three directions, X/Y/Z. X pattern for the worst.

Note: Test chart See Appendix II

6. OCCUPIED BANDWIDTH

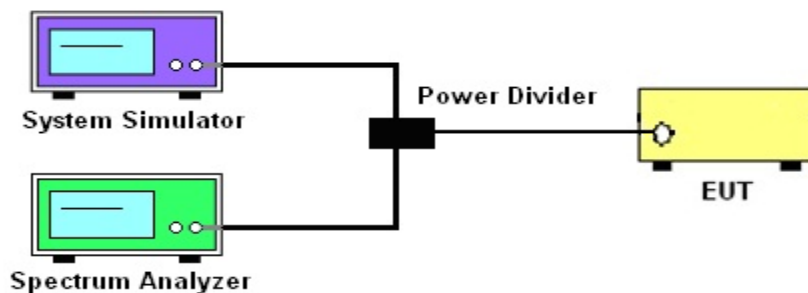
6.1 DESCRIPTION OF OCCUPIED BANDWIDTH MEASUREMENT

6.1.1 MEASUREMENT METHOD

1. The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

2. The 26 db emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 db below the maximum in-band spectral density of the modulated signal. spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

6.1.2 TEST SETUP



6.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01 v03r01 Section 4.2 and 4.3.
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure the Occupied Bandwidth of the spectrum analyzer.
5. Measure and record the Occupied Bandwidth from the Spectrum Analyzer.

	LTE					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz
Detector	PK	PK	PK	PK	PK	PK
Trace	Max	Max	Max	Max	Max	Max
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto

6.1.4 MEASUREMENT RESULT

Note: Test chart See Appendix II

7. CONDUCTED BAND EDGE

7.1 DESCRIPTION OF CONDUCTED BAND EDGE MEASUREMENT

7.1.1 MEASUREMENT METHOD

1. §22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz 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.

2. §24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. 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

3. §27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz 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.

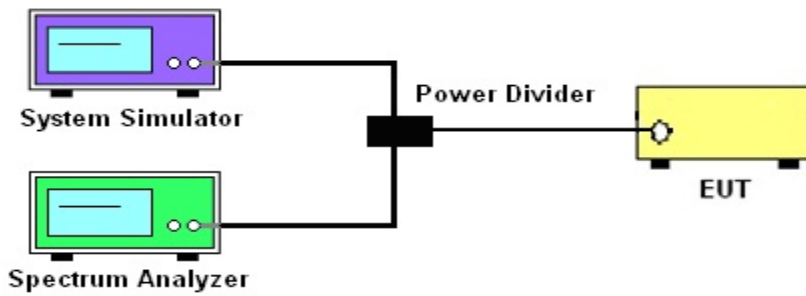
4. §27.53(m)(4)

For operations in the 2500 MHz ~ 2570 MHz band this section, 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 that $43 + 10 \log (P)$ 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.

5. §27.53 (g)

For operations in the 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. 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.

7.1.2 TEST SETUP



7.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Set spectrum analyzer with RMS/AVG detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.

Band 7:

$$\begin{aligned} &= P(W) - [55 + 10\log(P)] \text{ (dB)} \\ &= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)} \\ &= -25 \text{ dBm.} \end{aligned}$$

	LTE					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	12MHz	13MHz	15MHz	20MHz	25MHz	30MHz
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz
Detector	RMS	RMS	RMS	RMS	RMS	RMS
Trace	Max	Max	Max	Max	Max	Max
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto

7.1.4 MEASUREMENT RESULT

Note: Test chart See Appendix II

8. CONDUCTED SPURIOUS EMISSION

8.1 DESCRIPTION OF CONDUCTED SPURIOUS EMISSION MEASUREMENT

8.1.1 MEASUREMENT METHOD

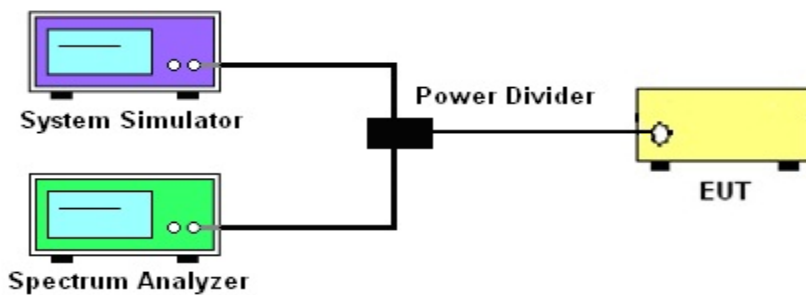
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

8.1.2 TEST SETUP



8.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement
4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)} = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

For Band 7: $P(W) - [43 + 10\log(P)] \text{ (dB)} = -25\text{dBm}$

	LTE					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	Auto	Auto	Auto	Auto	Auto	Auto
RBW	1000kHz	1000kHz	1000kHz	1000kHz	1000kHz	1000kHz
VBW	3000kHz	3000kHz	3000kHz	3000kHz	3000kHz	3000kHz
Detector	PK	PK	PK	PK	PK	PK
Trace	Max	Max	Max	Max	Max	Max

8.1.4 TEST RESULTS

Note: Test chart See Appendix II

9. RADIATED SPURIOUS EMISSION

9.1 DESCRIPTION OF RADIATED SPURIOUS EMISSION

9.1.1 MEASUREMENT METHOD

The radiated spurious emission was measured by substitution method according to ANSI C63.26 2015. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7 The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

9.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, $RSE = Rx \text{ (dBuV)} + CL \text{ (dB)} + SA \text{ (dB)} + Gain \text{ (dBi)} - 107 \text{ (dBuV to dBm)}$ The SA is calibrated using following setup.

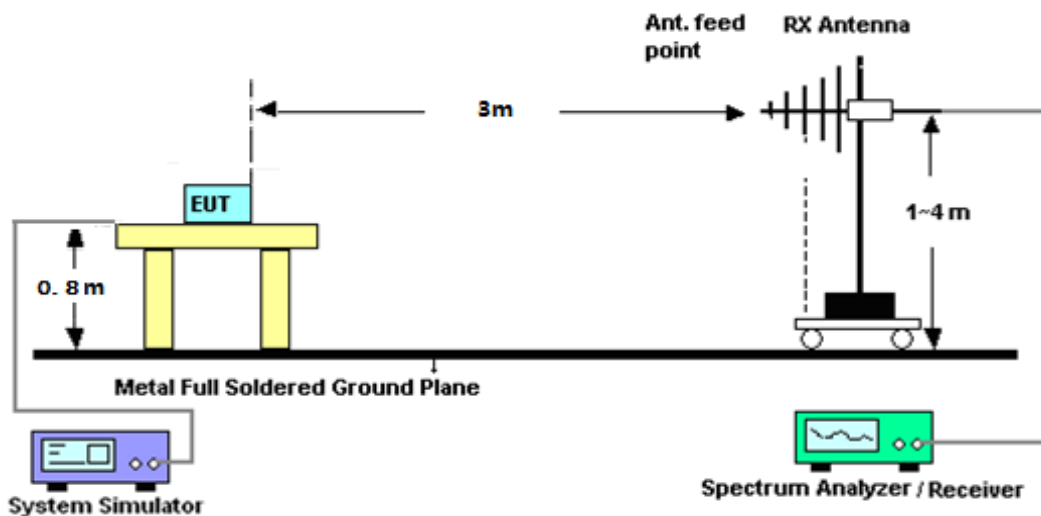
b) EUT was placed on 1.5 m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic measured with peak detector and 1MHz bandwidth.

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

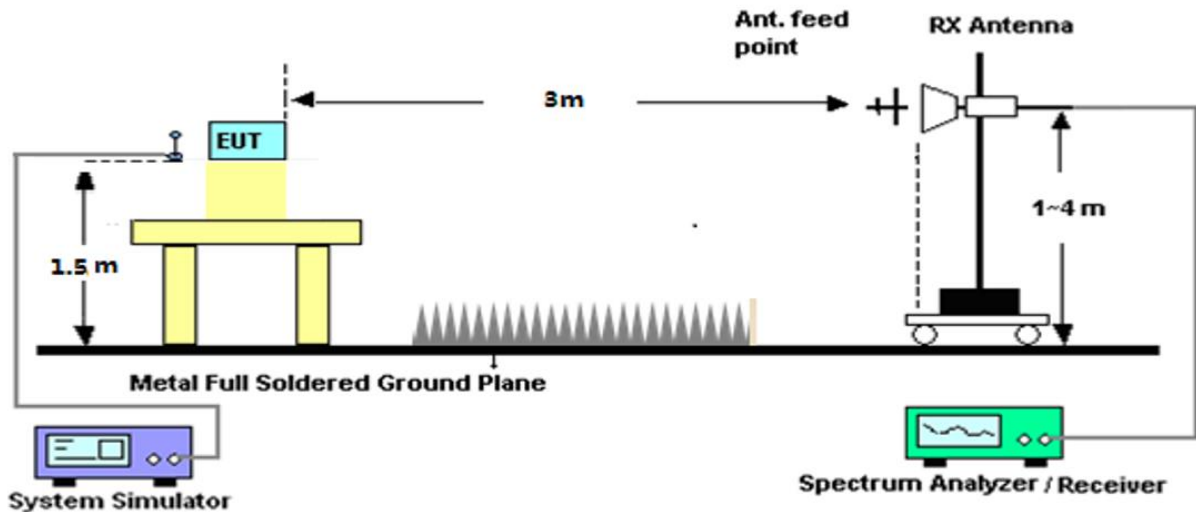
The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below:

Power = P_{Mea} + AR_{pl}

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



9.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 Section 7 and ANSI C63.26 2015 Section 5.5.
2. The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$

$$= P(\text{W}) - [43 + 10\log(P)] (\text{dB})$$

$$= [30 + 10\log(P)] (\text{dBm}) - [43 + 10\log(P)] (\text{dB})$$

$$= -13\text{dBm}$$

For Band 7:

The limit line is derived from $55 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$

$$= [30 + 10\log(P)] (\text{dBm}) - [55 + 10\log(P)] (\text{dB})$$

$$= -25\text{dBm}$$

$$P_{\text{Mea}} = S.G \text{ Level} + \text{Ant-Cable loss}; \text{Margin} = P_{\text{Mea}} - \text{Limit}.$$

9.1.4 TEST RESULTS

Note: Test chart See Appendix II

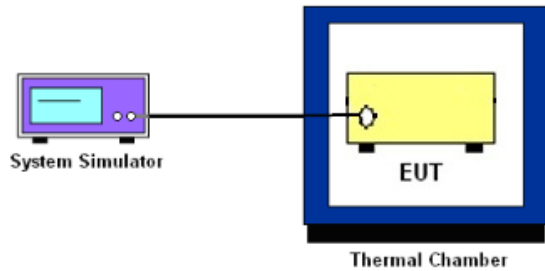
10. FREQUENCY STABILITY

10.1 DESCRIPTION OF FREQUENCY STABILITY MEASUREMENT

10.1.1 MEASUREMENT METHOD

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

10.1.2 TEST SETUP



10.1.3 TEST PROCEDURES FOR TEMPERATURE VARIATION

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

10.1.4 TEST PROCEDURES FOR VOLTAGE VARIATION

1. The testing follows FCC KDB 971168 D01v01r03 Section 9.
2. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

10.1.5 TEST RESULTS

Note: Test chart See Appendix II

APPENDIX I-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

APPENDIX II-TEST DATA

CONDUCTED OUTPUT POWER

<i>Band</i>	<i>Bandwidth (MHz)</i>	<i>UL Channel</i>	<i>RB Size</i>	<i>RB Position</i>	<i>Modulation</i>	<i>Power (dBm)</i>	<i>Gain (dB)</i>	<i>EIRP (dBm)</i>	<i>EIRP Limit (dBm)</i>	<i>Verdict</i>
Band4	1.4	19957	1	#0	QPSK	22.44	1.15	23.59	30	PASS
Band4	1.4	19957	1	#Mid	QPSK	22.47	1.15	23.62	30	PASS
Band4	1.4	19957	1	#Max	QPSK	21.85	1.15	23	30	PASS
Band4	1.4	19957	3	#0	QPSK	21.68	1.15	22.83	30	PASS
Band4	1.4	19957	3	#Mid	QPSK	21.72	1.15	22.87	30	PASS
Band4	1.4	19957	3	#Max	QPSK	21.71	1.15	22.86	30	PASS
Band4	1.4	19957	6	#0	QPSK	20.84	1.15	21.99	30	PASS
Band4	1.4	19957	1	#0	QAM16	20.72	1.15	21.87	30	PASS
Band4	1.4	19957	1	#Mid	QAM16	20.85	1.15	22	30	PASS
Band4	1.4	19957	1	#Max	QAM16	20.72	1.15	21.87	30	PASS
Band4	1.4	19957	3	#0	QAM16	20.84	1.15	21.99	30	PASS
Band4	1.4	19957	3	#Mid	QAM16	20.84	1.15	21.99	30	PASS
Band4	1.4	19957	3	#Max	QAM16	20.83	1.15	21.98	30	PASS
Band4	1.4	19957	6	#0	QAM16	19.84	1.15	20.99	30	PASS
Band4	1.4	20175	1	#0	QPSK	21.25	1.15	22.4	30	PASS
Band4	1.4	20175	1	#Mid	QPSK	21.24	1.15	22.39	30	PASS
Band4	1.4	20175	1	#Max	QPSK	20.92	1.15	22.07	30	PASS
Band4	1.4	20175	3	#0	QPSK	21.16	1.15	22.31	30	PASS
Band4	1.4	20175	3	#Mid	QPSK	21.11	1.15	22.26	30	PASS
Band4	1.4	20175	3	#Max	QPSK	20.94	1.15	22.09	30	PASS
Band4	1.4	20175	6	#0	QPSK	20.39	1.15	21.54	30	PASS
Band4	1.4	20175	1	#0	QAM16	20.2	1.15	21.35	30	PASS
Band4	1.4	20175	1	#Mid	QAM16	20.29	1.15	21.44	30	PASS
Band4	1.4	20175	1	#Max	QAM16	20.2	1.15	21.35	30	PASS
Band4	1.4	20175	3	#0	QAM16	20.18	1.15	21.33	30	PASS
Band4	1.4	20175	3	#Mid	QAM16	20.2	1.15	21.35	30	PASS
Band4	1.4	20175	3	#Max	QAM16	20.17	1.15	21.32	30	PASS
Band4	1.4	20175	6	#0	QAM16	19.28	1.15	20.43	30	PASS
Band4	1.4	20393	1	#0	QPSK	21.35	1.15	22.5	30	PASS
Band4	1.4	20393	1	#Mid	QPSK	21.46	1.15	22.61	30	PASS
Band4	1.4	20393	1	#Max	QPSK	21.33	1.15	22.48	30	PASS
Band4	1.4	20393	3	#0	QPSK	21.35	1.15	22.5	30	PASS
Band4	1.4	20393	3	#Mid	QPSK	21.43	1.15	22.58	30	PASS
Band4	1.4	20393	3	#Max	QPSK	21.38	1.15	22.53	30	PASS
Band4	1.4	20393	6	#0	QPSK	20.32	1.15	21.47	30	PASS
Band4	1.4	20393	1	#0	QAM16	20.25	1.15	21.4	30	PASS
Band4	1.4	20393	1	#Mid	QAM16	20.36	1.15	21.51	30	PASS
Band4	1.4	20393	1	#Max	QAM16	20.28	1.15	21.43	30	PASS
Band4	1.4	20393	3	#0	QAM16	20.62	1.15	21.77	30	PASS
Band4	1.4	20393	3	#Mid	QAM16	20.61	1.15	21.76	30	PASS
Band4	1.4	20393	3	#Max	QAM16	20.63	1.15	21.78	30	PASS

Band4	1.4	20393	6	#0	QAM16	19.57	1.15	20.72	30	PASS
Band4	3	19965	1	#0	QPSK	21.93	1.15	23.08	30	PASS
Band4	3	19965	1	#Mid	QPSK	22.12	1.15	23.27	30	PASS
Band4	3	19965	1	#Max	QPSK	21.76	1.15	22.91	30	PASS
Band4	3	19965	8	#0	QPSK	20.84	1.15	21.99	30	PASS
Band4	3	19965	8	#Mid	QPSK	20.88	1.15	22.03	30	PASS
Band4	3	19965	8	#Max	QPSK	20.84	1.15	21.99	30	PASS
Band4	3	19965	15	#0	QPSK	20.81	1.15	21.96	30	PASS
Band4	3	19965	1	#0	QAM16	20.87	1.15	22.02	30	PASS
Band4	3	19965	1	#Mid	QAM16	21.17	1.15	22.32	30	PASS
Band4	3	19965	1	#Max	QAM16	20.86	1.15	22.01	30	PASS
Band4	3	19965	8	#0	QAM16	19.77	1.15	20.92	30	PASS
Band4	3	19965	8	#Mid	QAM16	19.81	1.15	20.96	30	PASS
Band4	3	19965	8	#Max	QAM16	19.78	1.15	20.93	30	PASS
Band4	3	19965	15	#0	QAM16	19.75	1.15	20.9	30	PASS
Band4	3	20175	1	#0	QPSK	21.19	1.15	22.34	30	PASS
Band4	3	20175	1	#Mid	QPSK	20.99	1.15	22.14	30	PASS
Band4	3	20175	1	#Max	QPSK	20.56	1.15	21.71	30	PASS
Band4	3	20175	8	#0	QPSK	20.45	1.15	21.6	30	PASS
Band4	3	20175	8	#Mid	QPSK	20.5	1.15	21.65	30	PASS
Band4	3	20175	8	#Max	QPSK	20.44	1.15	21.59	30	PASS
Band4	3	20175	15	#0	QPSK	20.3	1.15	21.45	30	PASS
Band4	3	20175	1	#0	QAM16	20.03	1.15	21.18	30	PASS
Band4	3	20175	1	#Mid	QAM16	20.25	1.15	21.4	30	PASS
Band4	3	20175	1	#Max	QAM16	20.04	1.15	21.19	30	PASS
Band4	3	20175	8	#0	QAM16	19.26	1.15	20.41	30	PASS
Band4	3	20175	8	#Mid	QAM16	19.3	1.15	20.45	30	PASS
Band4	3	20175	8	#Max	QAM16	19.23	1.15	20.38	30	PASS
Band4	3	20175	15	#0	QAM16	19.21	1.15	20.36	30	PASS
Band4	3	20385	1	#0	QPSK	21.5	1.15	22.65	30	PASS
Band4	3	20385	1	#Mid	QPSK	21.67	1.15	22.82	30	PASS
Band4	3	20385	1	#Max	QPSK	21.4	1.15	22.55	30	PASS
Band4	3	20385	8	#0	QPSK	20.44	1.15	21.59	30	PASS
Band4	3	20385	8	#Mid	QPSK	20.48	1.15	21.63	30	PASS
Band4	3	20385	8	#Max	QPSK	20.48	1.15	21.63	30	PASS
Band4	3	20385	15	#0	QPSK	20.44	1.15	21.59	30	PASS
Band4	3	20385	1	#0	QAM16	20.92	1.15	22.07	30	PASS
Band4	3	20385	1	#Mid	QAM16	21.2	1.15	22.35	30	PASS
Band4	3	20385	1	#Max	QAM16	20.87	1.15	22.02	30	PASS
Band4	3	20385	8	#0	QAM16	19.5	1.15	20.65	30	PASS
Band4	3	20385	8	#Mid	QAM16	19.54	1.15	20.69	30	PASS
Band4	3	20385	8	#Max	QAM16	19.51	1.15	20.66	30	PASS
Band4	3	20385	15	#0	QAM16	19.53	1.15	20.68	30	PASS
Band4	5	19975	1	#0	QPSK	21.68	1.15	22.83	30	PASS
Band4	5	19975	1	#Mid	QPSK	21.94	1.15	23.09	30	PASS
Band4	5	19975	1	#Max	QPSK	21.45	1.15	22.6	30	PASS

Band4	5	19975	12	#0	QPSK	20.55	1.15	21.7	30	PASS
Band4	5	19975	12	#Mid	QPSK	20.69	1.15	21.84	30	PASS
Band4	5	19975	12	#Max	QPSK	20.71	1.15	21.86	30	PASS
Band4	5	19975	25	#0	QPSK	20.73	1.15	21.88	30	PASS
Band4	5	19975	1	#0	QAM16	20.83	1.15	21.98	30	PASS
Band4	5	19975	1	#Mid	QAM16	21.24	1.15	22.39	30	PASS
Band4	5	19975	1	#Max	QAM16	20.85	1.15	22	30	PASS
Band4	5	19975	12	#0	QAM16	19.64	1.15	20.79	30	PASS
Band4	5	19975	12	#Mid	QAM16	19.75	1.15	20.9	30	PASS
Band4	5	19975	12	#Max	QAM16	19.82	1.15	20.97	30	PASS
Band4	5	19975	25	#0	QAM16	19.68	1.15	20.83	30	PASS
Band4	5	20175	1	#0	QPSK	21.18	1.15	22.33	30	PASS
Band4	5	20175	1	#Mid	QPSK	20.74	1.15	21.89	30	PASS
Band4	5	20175	1	#Max	QPSK	20.27	1.15	21.42	30	PASS
Band4	5	20175	12	#0	QPSK	20.28	1.15	21.43	30	PASS
Band4	5	20175	12	#Mid	QPSK	20.27	1.15	21.42	30	PASS
Band4	5	20175	12	#Max	QPSK	20.14	1.15	21.29	30	PASS
Band4	5	20175	25	#0	QPSK	20.19	1.15	21.34	30	PASS
Band4	5	20175	1	#0	QAM16	20.39	1.15	21.54	30	PASS
Band4	5	20175	1	#Mid	QAM16	20.54	1.15	21.69	30	PASS
Band4	5	20175	1	#Max	QAM16	20.21	1.15	21.36	30	PASS
Band4	5	20175	12	#0	QAM16	19.19	1.15	20.34	30	PASS
Band4	5	20175	12	#Mid	QAM16	19.18	1.15	20.33	30	PASS
Band4	5	20175	12	#Max	QAM16	19.05	1.15	20.2	30	PASS
Band4	5	20175	25	#0	QAM16	19.06	1.15	20.21	30	PASS
Band4	5	20375	1	#0	QPSK	21.3	1.15	22.45	30	PASS
Band4	5	20375	1	#Mid	QPSK	21.67	1.15	22.82	30	PASS
Band4	5	20375	1	#Max	QPSK	21.25	1.15	22.4	30	PASS
Band4	5	20375	12	#0	QPSK	20.27	1.15	21.42	30	PASS
Band4	5	20375	12	#Mid	QPSK	20.44	1.15	21.59	30	PASS
Band4	5	20375	12	#Max	QPSK	20.48	1.15	21.63	30	PASS
Band4	5	20375	25	#0	QPSK	20.46	1.15	21.61	30	PASS
Band4	5	20375	1	#0	QAM16	20.63	1.15	21.78	30	PASS
Band4	5	20375	1	#Mid	QAM16	21.17	1.15	22.32	30	PASS
Band4	5	20375	1	#Max	QAM16	20.64	1.15	21.79	30	PASS
Band4	5	20375	12	#0	QAM16	19.27	1.15	20.42	30	PASS
Band4	5	20375	12	#Mid	QAM16	19.47	1.15	20.62	30	PASS
Band4	5	20375	12	#Max	QAM16	19.53	1.15	20.68	30	PASS
Band4	5	20375	25	#0	QAM16	19.46	1.15	20.61	30	PASS
Band4	10	20000	1	#0	QPSK	21.78	1.15	22.93	30	PASS
Band4	10	20000	1	#Mid	QPSK	21.76	1.15	22.91	30	PASS
Band4	10	20000	1	#Max	QPSK	21.43	1.15	22.58	30	PASS
Band4	10	20000	25	#0	QPSK	20.52	1.15	21.67	30	PASS
Band4	10	20000	25	#Mid	QPSK	20.72	1.15	21.87	30	PASS
Band4	10	20000	25	#Max	QPSK	20.85	1.15	22	30	PASS
Band4	10	20000	50	#0	QPSK	20.76	1.15	21.91	30	PASS

Band4	10	20000	1	#0	QAM16	20.78	1.15	21.93	30	PASS
Band4	10	20000	1	#Mid	QAM16	20.94	1.15	22.09	30	PASS
Band4	10	20000	1	#Max	QAM16	20.65	1.15	21.8	30	PASS
Band4	10	20000	25	#0	QAM16	19.54	1.15	20.69	30	PASS
Band4	10	20000	25	#Mid	QAM16	19.7	1.15	20.85	30	PASS
Band4	10	20000	25	#Max	QAM16	19.89	1.15	21.04	30	PASS
Band4	10	20000	50	#0	QAM16	19.8	1.15	20.95	30	PASS
Band4	10	20175	1	#0	QPSK	21.31	1.15	22.46	30	PASS
Band4	10	20175	1	#Mid	QPSK	20.88	1.15	22.03	30	PASS
Band4	10	20175	1	#Max	QPSK	20.32	1.15	21.47	30	PASS
Band4	10	20175	25	#0	QPSK	20.46	1.15	21.61	30	PASS
Band4	10	20175	25	#Mid	QPSK	20.3	1.15	21.45	30	PASS
Band4	10	20175	25	#Max	QPSK	20.23	1.15	21.38	30	PASS
Band4	10	20175	50	#0	QPSK	20.28	1.15	21.43	30	PASS
Band4	10	20175	1	#0	QAM16	19.98	1.15	21.13	30	PASS
Band4	10	20175	1	#Mid	QAM16	20.13	1.15	21.28	30	PASS
Band4	10	20175	1	#Max	QAM16	19.79	1.15	20.94	30	PASS
Band4	10	20175	25	#0	QAM16	19.41	1.15	20.56	30	PASS
Band4	10	20175	25	#Mid	QAM16	19.2	1.15	20.35	30	PASS
Band4	10	20175	25	#Max	QAM16	19.1	1.15	20.25	30	PASS
Band4	10	20175	50	#0	QAM16	19.22	1.15	20.37	30	PASS
Band4	10	20350	1	#0	QPSK	21.42	1.15	22.57	30	PASS
Band4	10	20350	1	#Mid	QPSK	21.57	1.15	22.72	30	PASS
Band4	10	20350	1	#Max	QPSK	21.25	1.15	22.4	30	PASS
Band4	10	20350	25	#0	QPSK	20.33	1.15	21.48	30	PASS
Band4	10	20350	25	#Mid	QPSK	20.55	1.15	21.7	30	PASS
Band4	10	20350	25	#Max	QPSK	20.82	1.15	21.97	30	PASS
Band4	10	20350	50	#0	QPSK	20.66	1.15	21.81	30	PASS
Band4	10	20350	1	#0	QAM16	20.62	1.15	21.77	30	PASS
Band4	10	20350	1	#Mid	QAM16	20.94	1.15	22.09	30	PASS
Band4	10	20350	1	#Max	QAM16	20.84	1.15	21.99	30	PASS
Band4	10	20350	25	#0	QAM16	19.36	1.15	20.51	30	PASS
Band4	10	20350	25	#Mid	QAM16	19.59	1.15	20.74	30	PASS
Band4	10	20350	25	#Max	QAM16	19.87	1.15	21.02	30	PASS
Band4	10	20350	50	#0	QAM16	19.67	1.15	20.82	30	PASS
Band4	15	20025	1	#0	QPSK	21.61	1.15	22.76	30	PASS
Band4	15	20025	1	#Mid	QPSK	21.82	1.15	22.97	30	PASS
Band4	15	20025	1	#Max	QPSK	21.16	1.15	22.31	30	PASS
Band4	15	20025	36	#0	QPSK	20.39	1.15	21.54	30	PASS
Band4	15	20025	36	#Mid	QPSK	20.54	1.15	21.69	30	PASS
Band4	15	20025	36	#Max	QPSK	20.32	1.15	21.47	30	PASS
Band4	15	20025	75	#0	QPSK	20.39	1.15	21.54	30	PASS
Band4	15	20025	1	#0	QAM16	20.62	1.15	21.77	30	PASS
Band4	15	20025	1	#Mid	QAM16	21.03	1.15	22.18	30	PASS
Band4	15	20025	1	#Max	QAM16	20.34	1.15	21.49	30	PASS
Band4	15	20025	36	#0	QAM16	19.46	1.15	20.61	30	PASS

Band4	15	20025	36	#Mid	QAM16	19.6	1.15	20.75	30	PASS
Band4	15	20025	36	#Max	QAM16	19.39	1.15	20.54	30	PASS
Band4	15	20025	75	#0	QAM16	19.32	1.15	20.47	30	PASS
Band4	15	20175	1	#0	QPSK	21.09	1.15	22.24	30	PASS
Band4	15	20175	1	#Mid	QPSK	20.95	1.15	22.1	30	PASS
Band4	15	20175	1	#Max	QPSK	20.53	1.15	21.68	30	PASS
Band4	15	20175	36	#0	QPSK	20.54	1.15	21.69	30	PASS
Band4	15	20175	36	#Mid	QPSK	20.43	1.15	21.58	30	PASS
Band4	15	20175	36	#Max	QPSK	20.29	1.15	21.44	30	PASS
Band4	15	20175	75	#0	QPSK	20.49	1.15	21.64	30	PASS
Band4	15	20175	1	#0	QAM16	20.16	1.15	21.31	30	PASS
Band4	15	20175	1	#Mid	QAM16	20.41	1.15	21.56	30	PASS
Band4	15	20175	1	#Max	QAM16	20.19	1.15	21.34	30	PASS
Band4	15	20175	36	#0	QAM16	19.41	1.15	20.56	30	PASS
Band4	15	20175	36	#Mid	QAM16	19.29	1.15	20.44	30	PASS
Band4	15	20175	36	#Max	QAM16	19.27	1.15	20.42	30	PASS
Band4	15	20175	75	#0	QAM16	19.38	1.15	20.53	30	PASS
Band4	15	20325	1	#0	QPSK	20.49	1.15	21.64	30	PASS
Band4	15	20325	1	#Mid	QPSK	21.75	1.15	22.9	30	PASS
Band4	15	20325	1	#Max	QPSK	21.15	1.15	22.3	30	PASS
Band4	15	20325	36	#0	QPSK	20.43	1.15	21.58	30	PASS
Band4	15	20325	36	#Mid	QPSK	20.6	1.15	21.75	30	PASS
Band4	15	20325	36	#Max	QPSK	20.7	1.15	21.85	30	PASS
Band4	15	20325	75	#0	QPSK	20.62	1.15	21.77	30	PASS
Band4	15	20325	1	#0	QAM16	20.33	1.15	21.48	30	PASS
Band4	15	20325	1	#Mid	QAM16	20.98	1.15	22.13	30	PASS
Band4	15	20325	1	#Max	QAM16	20.67	1.15	21.82	30	PASS
Band4	15	20325	36	#0	QAM16	19.36	1.15	20.51	30	PASS
Band4	15	20325	36	#Mid	QAM16	19.57	1.15	20.72	30	PASS
Band4	15	20325	36	#Max	QAM16	19.74	1.15	20.89	30	PASS
Band4	15	20325	75	#0	QAM16	19.59	1.15	20.74	30	PASS
Band4	20	20050	1	#0	QPSK	21.44	1.15	22.59	30	PASS
Band4	20	20050	1	#Mid	QPSK	21.41	1.15	22.56	30	PASS
Band4	20	20050	1	#Max	QPSK	20.98	1.15	22.13	30	PASS
Band4	20	20050	50	#0	QPSK	20.12	1.15	21.27	30	PASS
Band4	20	20050	50	#Mid	QPSK	20.42	1.15	21.57	30	PASS
Band4	20	20050	50	#Max	QPSK	19.93	1.15	21.08	30	PASS
Band4	20	20050	100	#0	QPSK	20.03	1.15	21.18	30	PASS
Band4	20	20050	1	#0	QAM16	20.61	1.15	21.76	30	PASS
Band4	20	20050	1	#Mid	QAM16	20.82	1.15	21.97	30	PASS
Band4	20	20050	1	#Max	QAM16	20.19	1.15	21.34	30	PASS
Band4	20	20050	50	#0	QAM16	19.19	1.15	20.34	30	PASS
Band4	20	20050	50	#Mid	QAM16	19.47	1.15	20.62	30	PASS
Band4	20	20050	50	#Max	QAM16	18.95	1.15	20.1	30	PASS
Band4	20	20050	100	#0	QAM16	19.06	1.15	20.21	30	PASS
Band4	20	20175	1	#0	QPSK	20.99	1.15	22.14	30	PASS

Band4	20	20175	1	#Mid	QPSK	20.9	1.15	22.05	30	PASS
Band4	20	20175	1	#Max	QPSK	20.81	1.15	21.96	30	PASS
Band4	20	20175	50	#0	QPSK	20.75	1.15	21.9	30	PASS
Band4	20	20175	50	#Mid	QPSK	20.27	1.15	21.42	30	PASS
Band4	20	20175	50	#Max	QPSK	20.25	1.15	21.4	30	PASS
Band4	20	20175	100	#0	QPSK	20.57	1.15	21.72	30	PASS
Band4	20	20175	1	#0	QAM16	20.26	1.15	21.41	30	PASS
Band4	20	20175	1	#Mid	QAM16	20.31	1.15	21.46	30	PASS
Band4	20	20175	1	#Max	QAM16	20.12	1.15	21.27	30	PASS
Band4	20	20175	50	#0	QAM16	19.74	1.15	20.89	30	PASS
Band4	20	20175	50	#Mid	QAM16	19.15	1.15	20.3	30	PASS
Band4	20	20175	50	#Max	QAM16	19.12	1.15	20.27	30	PASS
Band4	20	20175	100	#0	QAM16	19.49	1.15	20.64	30	PASS
Band4	20	20300	1	#0	QPSK	20.2	1.15	21.35	30	PASS
Band4	20	20300	1	#Mid	QPSK	21.27	1.15	22.42	30	PASS
Band4	20	20300	1	#Max	QPSK	21.05	1.15	22.2	30	PASS
Band4	20	20300	50	#0	QPSK	20.17	1.15	21.32	30	PASS
Band4	20	20300	50	#Mid	QPSK	20.48	1.15	21.63	30	PASS
Band4	20	20300	50	#Max	QPSK	21.03	1.15	22.18	30	PASS
Band4	20	20300	100	#0	QPSK	20.74	1.15	21.89	30	PASS
Band4	20	20300	1	#0	QAM16	19.84	1.15	20.99	30	PASS
Band4	20	20300	1	#Mid	QAM16	20.57	1.15	21.72	30	PASS
Band4	20	20300	1	#Max	QAM16	20.34	1.15	21.49	30	PASS
Band4	20	20300	50	#0	QAM16	19.13	1.15	20.28	30	PASS
Band4	20	20300	50	#Mid	QAM16	19.48	1.15	20.63	30	PASS
Band4	20	20300	50	#Max	QAM16	20.09	1.15	21.24	30	PASS
Band4	20	20300	100	#0	QAM16	19.73	1.15	20.88	30	PASS
Band66	1.4	131979	1	#0	QPSK	22.26	1.15	23.41	30	PASS
Band66	1.4	131979	1	#Mid	QPSK	22.39	1.15	23.54	30	PASS
Band66	1.4	131979	1	#Max	QPSK	22.18	1.15	23.33	30	PASS
Band66	1.4	131979	3	#0	QPSK	21.97	1.15	23.12	30	PASS
Band66	1.4	131979	3	#Mid	QPSK	21.95	1.15	23.1	30	PASS
Band66	1.4	131979	3	#Max	QPSK	21.96	1.15	23.11	30	PASS
Band66	1.4	131979	6	#0	QPSK	21.2	1.15	22.35	30	PASS
Band66	1.4	131979	1	#0	QAM16	21.02	1.15	22.17	30	PASS
Band66	1.4	131979	1	#Mid	QAM16	21.15	1.15	22.3	30	PASS
Band66	1.4	131979	1	#Max	QAM16	20.98	1.15	22.13	30	PASS
Band66	1.4	131979	3	#0	QAM16	21.05	1.15	22.2	30	PASS
Band66	1.4	131979	3	#Mid	QAM16	21.07	1.15	22.22	30	PASS
Band66	1.4	131979	3	#Max	QAM16	21.04	1.15	22.19	30	PASS
Band66	1.4	131979	6	#0	QAM16	20.12	1.15	21.27	30	PASS
Band66	1.4	132322	1	#0	QPSK	21.81	1.15	22.96	30	PASS
Band66	1.4	132322	1	#Mid	QPSK	21.95	1.15	23.1	30	PASS
Band66	1.4	132322	1	#Max	QPSK	21.78	1.15	22.93	30	PASS
Band66	1.4	132322	3	#0	QPSK	21.68	1.15	22.83	30	PASS
Band66	1.4	132322	3	#Mid	QPSK	21.69	1.15	22.84	30	PASS

Band66	1.4	132322	3	#Max	QPSK	21.68	1.15	22.83	30	PASS
Band66	1.4	132322	6	#0	QPSK	20.88	1.15	22.03	30	PASS
Band66	1.4	132322	1	#0	QAM16	20.72	1.15	21.87	30	PASS
Band66	1.4	132322	1	#Mid	QAM16	20.83	1.15	21.98	30	PASS
Band66	1.4	132322	1	#Max	QAM16	20.77	1.15	21.92	30	PASS
Band66	1.4	132322	3	#0	QAM16	20.7	1.15	21.85	30	PASS
Band66	1.4	132322	3	#Mid	QAM16	20.76	1.15	21.91	30	PASS
Band66	1.4	132322	3	#Max	QAM16	20.78	1.15	21.93	30	PASS
Band66	1.4	132322	6	#0	QAM16	19.83	1.15	20.98	30	PASS
Band66	1.4	132665	1	#0	QPSK	21.49	1.15	22.64	30	PASS
Band66	1.4	132665	1	#Mid	QPSK	21.65	1.15	22.8	30	PASS
Band66	1.4	132665	1	#Max	QPSK	21.48	1.15	22.63	30	PASS
Band66	1.4	132665	3	#0	QPSK	21.53	1.15	22.68	30	PASS
Band66	1.4	132665	3	#Mid	QPSK	21.52	1.15	22.67	30	PASS
Band66	1.4	132665	3	#Max	QPSK	21.51	1.15	22.66	30	PASS
Band66	1.4	132665	6	#0	QPSK	20.49	1.15	21.64	30	PASS
Band66	1.4	132665	1	#0	QAM16	20.22	1.15	21.37	30	PASS
Band66	1.4	132665	1	#Mid	QAM16	20.35	1.15	21.5	30	PASS
Band66	1.4	132665	1	#Max	QAM16	20.26	1.15	21.41	30	PASS
Band66	1.4	132665	3	#0	QAM16	20.57	1.15	21.72	30	PASS
Band66	1.4	132665	3	#Mid	QAM16	20.6	1.15	21.75	30	PASS
Band66	1.4	132665	3	#Max	QAM16	20.63	1.15	21.78	30	PASS
Band66	1.4	132665	6	#0	QAM16	19.63	1.15	20.78	30	PASS
Band66	3	131987	1	#0	QPSK	22.24	1.15	23.39	30	PASS
Band66	3	131987	1	#Mid	QPSK	22.37	1.15	23.52	30	PASS
Band66	3	131987	1	#Max	QPSK	22.04	1.15	23.19	30	PASS
Band66	3	131987	8	#0	QPSK	21.2	1.15	22.35	30	PASS
Band66	3	131987	8	#Mid	QPSK	21.22	1.15	22.37	30	PASS
Band66	3	131987	8	#Max	QPSK	21.17	1.15	22.32	30	PASS
Band66	3	131987	15	#0	QPSK	21.07	1.15	22.22	30	PASS
Band66	3	131987	1	#0	QAM16	21.36	1.15	22.51	30	PASS
Band66	3	131987	1	#Mid	QAM16	21.57	1.15	22.72	30	PASS
Band66	3	131987	1	#Max	QAM16	21.3	1.15	22.45	30	PASS
Band66	3	131987	8	#0	QAM16	20.11	1.15	21.26	30	PASS
Band66	3	131987	8	#Mid	QAM16	20.09	1.15	21.24	30	PASS
Band66	3	131987	8	#Max	QAM16	20.07	1.15	21.22	30	PASS
Band66	3	131987	15	#0	QAM16	20.06	1.15	21.21	30	PASS
Band66	3	132322	1	#0	QPSK	21.49	1.15	22.64	30	PASS
Band66	3	132322	1	#Mid	QPSK	21.96	1.15	23.11	30	PASS
Band66	3	132322	1	#Max	QPSK	21.93	1.15	23.08	30	PASS
Band66	3	132322	8	#0	QPSK	20.91	1.15	22.06	30	PASS
Band66	3	132322	8	#Mid	QPSK	20.95	1.15	22.1	30	PASS
Band66	3	132322	8	#Max	QPSK	20.93	1.15	22.08	30	PASS
Band66	3	132322	15	#0	QPSK	20.82	1.15	21.97	30	PASS
Band66	3	132322	1	#0	QAM16	20.79	1.15	21.94	30	PASS
Band66	3	132322	1	#Mid	QAM16	21.06	1.15	22.21	30	PASS

Band66	3	132322	1	#Max	QAM16	20.86	1.15	22.01	30	PASS
Band66	3	132322	8	#0	QAM16	19.8	1.15	20.95	30	PASS
Band66	3	132322	8	#Mid	QAM16	19.84	1.15	20.99	30	PASS
Band66	3	132322	8	#Max	QAM16	19.83	1.15	20.98	30	PASS
Band66	3	132322	15	#0	QAM16	19.7	1.15	20.85	30	PASS
Band66	3	132657	1	#0	QPSK	21.7	1.15	22.85	30	PASS
Band66	3	132657	1	#Mid	QPSK	21.98	1.15	23.13	30	PASS
Band66	3	132657	1	#Max	QPSK	21.67	1.15	22.82	30	PASS
Band66	3	132657	8	#0	QPSK	20.59	1.15	21.74	30	PASS
Band66	3	132657	8	#Mid	QPSK	20.63	1.15	21.78	30	PASS
Band66	3	132657	8	#Max	QPSK	20.66	1.15	21.81	30	PASS
Band66	3	132657	15	#0	QPSK	20.57	1.15	21.72	30	PASS
Band66	3	132657	1	#0	QAM16	20.3	1.15	21.45	30	PASS
Band66	3	132657	1	#Mid	QAM16	20.57	1.15	21.72	30	PASS
Band66	3	132657	1	#Max	QAM16	20.39	1.15	21.54	30	PASS
Band66	3	132657	8	#0	QAM16	19.49	1.15	20.64	30	PASS
Band66	3	132657	8	#Mid	QAM16	19.57	1.15	20.72	30	PASS
Band66	3	132657	8	#Max	QAM16	19.59	1.15	20.74	30	PASS
Band66	3	132657	15	#0	QAM16	19.58	1.15	20.73	30	PASS
Band66	5	131997	1	#0	QPSK	22.05	1.15	23.2	30	PASS
Band66	5	131997	1	#Mid	QPSK	22.22	1.15	23.37	30	PASS
Band66	5	131997	1	#Max	QPSK	21.73	1.15	22.88	30	PASS
Band66	5	131997	12	#0	QPSK	20.89	1.15	22.04	30	PASS
Band66	5	131997	12	#Mid	QPSK	20.97	1.15	22.12	30	PASS
Band66	5	131997	12	#Max	QPSK	20.99	1.15	22.14	30	PASS
Band66	5	131997	25	#0	QPSK	20.98	1.15	22.13	30	PASS
Band66	5	131997	1	#0	QAM16	21.28	1.15	22.43	30	PASS
Band66	5	131997	1	#Mid	QAM16	21.6	1.15	22.75	30	PASS
Band66	5	131997	1	#Max	QAM16	21.22	1.15	22.37	30	PASS
Band66	5	131997	12	#0	QAM16	19.85	1.15	21	30	PASS
Band66	5	131997	12	#Mid	QAM16	19.95	1.15	21.1	30	PASS
Band66	5	131997	12	#Max	QAM16	20	1.15	21.15	30	PASS
Band66	5	131997	25	#0	QAM16	19.92	1.15	21.07	30	PASS
Band66	5	132322	1	#0	QPSK	21.31	1.15	22.46	30	PASS
Band66	5	132322	1	#Mid	QPSK	21.87	1.15	23.02	30	PASS
Band66	5	132322	1	#Max	QPSK	21.75	1.15	22.9	30	PASS
Band66	5	132322	12	#0	QPSK	20.63	1.15	21.78	30	PASS
Band66	5	132322	12	#Mid	QPSK	20.75	1.15	21.9	30	PASS
Band66	5	132322	12	#Max	QPSK	20.76	1.15	21.91	30	PASS
Band66	5	132322	25	#0	QPSK	20.72	1.15	21.87	30	PASS
Band66	5	132322	1	#0	QAM16	20.73	1.15	21.88	30	PASS
Band66	5	132322	1	#Mid	QAM16	21.18	1.15	22.33	30	PASS
Band66	5	132322	1	#Max	QAM16	20.85	1.15	22	30	PASS
Band66	5	132322	12	#0	QAM16	19.53	1.15	20.68	30	PASS
Band66	5	132322	12	#Mid	QAM16	19.67	1.15	20.82	30	PASS
Band66	5	132322	12	#Max	QAM16	19.74	1.15	20.89	30	PASS

Band66	5	132322	25	#0	QAM16	19.63	1.15	20.78	30	PASS
Band66	5	132647	1	#0	QPSK	21.32	1.15	22.47	30	PASS
Band66	5	132647	1	#Mid	QPSK	21.63	1.15	22.78	30	PASS
Band66	5	132647	1	#Max	QPSK	21.34	1.15	22.49	30	PASS
Band66	5	132647	12	#0	QPSK	20.26	1.15	21.41	30	PASS
Band66	5	132647	12	#Mid	QPSK	20.43	1.15	21.58	30	PASS
Band66	5	132647	12	#Max	QPSK	20.58	1.15	21.73	30	PASS
Band66	5	132647	25	#0	QPSK	20.51	1.15	21.66	30	PASS
Band66	5	132647	1	#0	QAM16	20.46	1.15	21.61	30	PASS
Band66	5	132647	1	#Mid	QAM16	20.78	1.15	21.93	30	PASS
Band66	5	132647	1	#Max	QAM16	20.67	1.15	21.82	30	PASS
Band66	5	132647	12	#0	QAM16	19.26	1.15	20.41	30	PASS
Band66	5	132647	12	#Mid	QAM16	19.53	1.15	20.68	30	PASS
Band66	5	132647	12	#Max	QAM16	19.66	1.15	20.81	30	PASS
Band66	5	132647	25	#0	QAM16	19.42	1.15	20.57	30	PASS
Band66	10	132022	1	#0	QPSK	22.2	1.15	23.35	30	PASS
Band66	10	132022	1	#Mid	QPSK	22.06	1.15	23.21	30	PASS
Band66	10	132022	1	#Max	QPSK	21.64	1.15	22.79	30	PASS
Band66	10	132022	25	#0	QPSK	20.79	1.15	21.94	30	PASS
Band66	10	132022	25	#Mid	QPSK	20.97	1.15	22.12	30	PASS
Band66	10	132022	25	#Max	QPSK	21.13	1.15	22.28	30	PASS
Band66	10	132022	50	#0	QPSK	20.99	1.15	22.14	30	PASS
Band66	10	132022	1	#0	QAM16	20.81	1.15	21.96	30	PASS
Band66	10	132022	1	#Mid	QAM16	20.86	1.15	22.01	30	PASS
Band66	10	132022	1	#Max	QAM16	20.54	1.15	21.69	30	PASS
Band66	10	132022	25	#0	QAM16	19.74	1.15	20.89	30	PASS
Band66	10	132022	25	#Mid	QAM16	19.93	1.15	21.08	30	PASS
Band66	10	132022	25	#Max	QAM16	20.06	1.15	21.21	30	PASS
Band66	10	132022	50	#0	QAM16	19.97	1.15	21.12	30	PASS
Band66	10	132322	1	#0	QPSK	21.04	1.15	22.19	30	PASS
Band66	10	132322	1	#Mid	QPSK	21.81	1.15	22.96	30	PASS
Band66	10	132322	1	#Max	QPSK	21.67	1.15	22.82	30	PASS
Band66	10	132322	25	#0	QPSK	20.68	1.15	21.83	30	PASS
Band66	10	132322	25	#Mid	QPSK	20.79	1.15	21.94	30	PASS
Band66	10	132322	25	#Max	QPSK	20.99	1.15	22.14	30	PASS
Band66	10	132322	50	#0	QPSK	20.8	1.15	21.95	30	PASS
Band66	10	132322	1	#0	QAM16	20.77	1.15	21.92	30	PASS
Band66	10	132322	1	#Mid	QAM16	21.04	1.15	22.19	30	PASS
Band66	10	132322	1	#Max	QAM16	20.96	1.15	22.11	30	PASS
Band66	10	132322	25	#0	QAM16	19.57	1.15	20.72	30	PASS
Band66	10	132322	25	#Mid	QAM16	19.73	1.15	20.88	30	PASS
Band66	10	132322	25	#Max	QAM16	20.01	1.15	21.16	30	PASS
Band66	10	132322	50	#0	QAM16	19.8	1.15	20.95	30	PASS
Band66	10	132622	1	#0	QPSK	20.55	1.15	21.7	30	PASS
Band66	10	132622	1	#Mid	QPSK	21.14	1.15	22.29	30	PASS
Band66	10	132622	1	#Max	QPSK	21.44	1.15	22.59	30	PASS

Band66	10	132622	25	#0	QPSK	20.41	1.15	21.56	30	PASS
Band66	10	132622	25	#Mid	QPSK	20.5	1.15	21.65	30	PASS
Band66	10	132622	25	#Max	QPSK	20.82	1.15	21.97	30	PASS
Band66	10	132622	50	#0	QPSK	20.54	1.15	21.69	30	PASS
Band66	10	132622	1	#0	QAM16	20.28	1.15	21.43	30	PASS
Band66	10	132622	1	#Mid	QAM16	20.53	1.15	21.68	30	PASS
Band66	10	132622	1	#Max	QAM16	20.53	1.15	21.68	30	PASS
Band66	10	132622	25	#0	QAM16	19.22	1.15	20.37	30	PASS
Band66	10	132622	25	#Mid	QAM16	19.38	1.15	20.53	30	PASS
Band66	10	132622	25	#Max	QAM16	19.76	1.15	20.91	30	PASS
Band66	10	132622	50	#0	QAM16	19.52	1.15	20.67	30	PASS
Band66	15	132047	1	#0	QPSK	22.04	1.15	23.19	30	PASS
Band66	15	132047	1	#Mid	QPSK	22	1.15	23.15	30	PASS
Band66	15	132047	1	#Max	QPSK	21.37	1.15	22.52	30	PASS
Band66	15	132047	36	#0	QPSK	20.67	1.15	21.82	30	PASS
Band66	15	132047	36	#Mid	QPSK	20.75	1.15	21.9	30	PASS
Band66	15	132047	36	#Max	QPSK	20.55	1.15	21.7	30	PASS
Band66	15	132047	75	#0	QPSK	20.67	1.15	21.82	30	PASS
Band66	15	132047	1	#0	QAM16	20.9	1.15	22.05	30	PASS
Band66	15	132047	1	#Mid	QAM16	21.07	1.15	22.22	30	PASS
Band66	15	132047	1	#Max	QAM16	20.51	1.15	21.66	30	PASS
Band66	15	132047	36	#0	QAM16	19.64	1.15	20.79	30	PASS
Band66	15	132047	36	#Mid	QAM16	19.73	1.15	20.88	30	PASS
Band66	15	132047	36	#Max	QAM16	19.54	1.15	20.69	30	PASS
Band66	15	132047	75	#0	QAM16	19.67	1.15	20.82	30	PASS
Band66	15	132322	1	#0	QPSK	20.84	1.15	21.99	30	PASS
Band66	15	132322	1	#Mid	QPSK	21.79	1.15	22.94	30	PASS
Band66	15	132322	1	#Max	QPSK	21.4	1.15	22.55	30	PASS
Band66	15	132322	36	#0	QPSK	20.78	1.15	21.93	30	PASS
Band66	15	132322	36	#Mid	QPSK	20.94	1.15	22.09	30	PASS
Band66	15	132322	36	#Max	QPSK	21	1.15	22.15	30	PASS
Band66	15	132322	75	#0	QPSK	20.94	1.15	22.09	30	PASS
Band66	15	132322	1	#0	QAM16	20.58	1.15	21.73	30	PASS
Band66	15	132322	1	#Mid	QAM16	21.14	1.15	22.29	30	PASS
Band66	15	132322	1	#Max	QAM16	20.86	1.15	22.01	30	PASS
Band66	15	132322	36	#0	QAM16	19.7	1.15	20.85	30	PASS
Band66	15	132322	36	#Mid	QAM16	19.87	1.15	21.02	30	PASS
Band66	15	132322	36	#Max	QAM16	19.97	1.15	21.12	30	PASS
Band66	15	132322	75	#0	QAM16	19.87	1.15	21.02	30	PASS
Band66	15	132597	1	#0	QPSK	21.22	1.15	22.37	30	PASS
Band66	15	132597	1	#Mid	QPSK	20.41	1.15	21.56	30	PASS
Band66	15	132597	1	#Max	QPSK	21.26	1.15	22.41	30	PASS
Band66	15	132597	36	#0	QPSK	20.63	1.15	21.78	30	PASS
Band66	15	132597	36	#Mid	QPSK	20.63	1.15	21.78	30	PASS
Band66	15	132597	36	#Max	QPSK	20.8	1.15	21.95	30	PASS
Band66	15	132597	75	#0	QPSK	20.68	1.15	21.83	30	PASS

Band66	15	132597	1	#0	QAM16	20.17	1.15	21.32	30	PASS
Band66	15	132597	1	#Mid	QAM16	20.29	1.15	21.44	30	PASS
Band66	15	132597	1	#Max	QAM16	20.38	1.15	21.53	30	PASS
Band66	15	132597	36	#0	QAM16	19.56	1.15	20.71	30	PASS
Band66	15	132597	36	#Mid	QAM16	19.51	1.15	20.66	30	PASS
Band66	15	132597	36	#Max	QAM16	19.73	1.15	20.88	30	PASS
Band66	15	132597	75	#0	QAM16	19.56	1.15	20.71	30	PASS
Band66	20	132072	1	#0	QPSK	21.82	1.15	22.97	30	PASS
Band66	20	132072	1	#Mid	QPSK	21.71	1.15	22.86	30	PASS
Band66	20	132072	1	#Max	QPSK	21.34	1.15	22.49	30	PASS
Band66	20	132072	50	#0	QPSK	20.35	1.15	21.5	30	PASS
Band66	20	132072	50	#Mid	QPSK	20.6	1.15	21.75	30	PASS
Band66	20	132072	50	#Max	QPSK	20.12	1.15	21.27	30	PASS
Band66	20	132072	100	#0	QPSK	20.24	1.15	21.39	30	PASS
Band66	20	132072	1	#0	QAM16	20.76	1.15	21.91	30	PASS
Band66	20	132072	1	#Mid	QAM16	20.95	1.15	22.1	30	PASS
Band66	20	132072	1	#Max	QAM16	20.35	1.15	21.5	30	PASS
Band66	20	132072	50	#0	QAM16	19.35	1.15	20.5	30	PASS
Band66	20	132072	50	#Mid	QAM16	19.61	1.15	20.76	30	PASS
Band66	20	132072	50	#Max	QAM16	19.12	1.15	20.27	30	PASS
Band66	20	132072	100	#0	QAM16	19.27	1.15	20.42	30	PASS
Band66	20	132322	1	#0	QPSK	20.89	1.15	22.04	30	PASS
Band66	20	132322	1	#Mid	QPSK	21.79	1.15	22.94	30	PASS
Band66	20	132322	1	#Max	QPSK	21.23	1.15	22.38	30	PASS
Band66	20	132322	50	#0	QPSK	20.53	1.15	21.68	30	PASS
Band66	20	132322	50	#Mid	QPSK	20.75	1.15	21.9	30	PASS
Band66	20	132322	50	#Max	QPSK	21.23	1.15	22.38	30	PASS
Band66	20	132322	100	#0	QPSK	20.98	1.15	22.13	30	PASS
Band66	20	132322	1	#0	QAM16	20.22	1.15	21.37	30	PASS
Band66	20	132322	1	#Mid	QAM16	20.85	1.15	22	30	PASS
Band66	20	132322	1	#Max	QAM16	20.5	1.15	21.65	30	PASS
Band66	20	132322	50	#0	QAM16	19.44	1.15	20.59	30	PASS
Band66	20	132322	50	#Mid	QAM16	19.75	1.15	20.9	30	PASS
Band66	20	132322	50	#Max	QAM16	20.31	1.15	21.46	30	PASS
Band66	20	132322	100	#0	QAM16	19.95	1.15	21.1	30	PASS
Band66	20	132572	1	#0	QPSK	20.93	1.15	22.08	30	PASS
Band66	20	132572	1	#Mid	QPSK	20.69	1.15	21.84	30	PASS
Band66	20	132572	1	#Max	QPSK	21.19	1.15	22.34	30	PASS
Band66	20	132572	50	#0	QPSK	20.94	1.15	22.09	30	PASS
Band66	20	132572	50	#Mid	QPSK	20.4	1.15	21.55	30	PASS
Band66	20	132572	50	#Max	QPSK	20.67	1.15	21.82	30	PASS
Band66	20	132572	100	#0	QPSK	20.78	1.15	21.93	30	PASS
Band66	20	132572	1	#0	QAM16	20.29	1.15	21.44	30	PASS
Band66	20	132572	1	#Mid	QAM16	20.53	1.15	21.68	30	PASS
Band66	20	132572	1	#Max	QAM16	20.4	1.15	21.55	30	PASS
Band66	20	132572	50	#0	QAM16	19.96	1.15	21.11	30	PASS

Band66	20	132572	50	#Mid	QAM16	19.33	1.15	20.48	30	PASS
Band66	20	132572	50	#Max	QAM16	19.68	1.15	20.83	30	PASS
Band66	20	132572	100	#0	QAM16	19.79	1.15	20.94	30	PASS

<i>Band</i>	<i>Bandwidth (MHz)</i>	<i>UL Channel</i>	<i>RB Size</i>	<i>RB Position</i>	<i>Modulation</i>	<i>Power (dBm)</i>	<i>Gain (dB)</i>	<i>ERP (dBm)</i>	<i>ERP Limit (dBm)</i>	<i>Verdict</i>
Band5	1.4	20407	1	#0	QPSK	22.92	1.31	22.08	38.45	PASS
Band5	1.4	20407	1	#Mid	QPSK	23.08	1.31	22.24	38.45	PASS
Band5	1.4	20407	1	#Max	QPSK	22.89	1.31	22.05	38.45	PASS
Band5	1.4	20407	3	#0	QPSK	22.97	1.31	22.13	38.45	PASS
Band5	1.4	20407	3	#Mid	QPSK	22.88	1.31	22.04	38.45	PASS
Band5	1.4	20407	3	#Max	QPSK	22.92	1.31	22.08	38.45	PASS
Band5	1.4	20407	6	#0	QPSK	21.88	1.31	21.04	38.45	PASS
Band5	1.4	20407	1	#0	QAM16	22.03	1.31	21.19	38.45	PASS
Band5	1.4	20407	1	#Mid	QAM16	22.11	1.31	21.27	38.45	PASS
Band5	1.4	20407	1	#Max	QAM16	22.06	1.31	21.22	38.45	PASS
Band5	1.4	20407	3	#0	QAM16	22.09	1.31	21.25	38.45	PASS
Band5	1.4	20407	3	#Mid	QAM16	22.1	1.31	21.26	38.45	PASS
Band5	1.4	20407	3	#Max	QAM16	22.11	1.31	21.27	38.45	PASS
Band5	1.4	20407	6	#0	QAM16	21.07	1.31	20.23	38.45	PASS
Band5	1.4	20525	1	#0	QPSK	23.03	1.31	22.19	38.45	PASS
Band5	1.4	20525	1	#Mid	QPSK	23.21	1.31	22.37	38.45	PASS
Band5	1.4	20525	1	#Max	QPSK	22.98	1.31	22.14	38.45	PASS
Band5	1.4	20525	3	#0	QPSK	23.1	1.31	22.26	38.45	PASS
Band5	1.4	20525	3	#Mid	QPSK	23.05	1.31	22.21	38.45	PASS
Band5	1.4	20525	3	#Max	QPSK	23.06	1.31	22.22	38.45	PASS
Band5	1.4	20525	6	#0	QPSK	22.02	1.31	21.18	38.45	PASS
Band5	1.4	20525	1	#0	QAM16	22.22	1.31	21.38	38.45	PASS
Band5	1.4	20525	1	#Mid	QAM16	22.3	1.31	21.46	38.45	PASS
Band5	1.4	20525	1	#Max	QAM16	22.22	1.31	21.38	38.45	PASS
Band5	1.4	20525	3	#0	QAM16	22.33	1.31	21.49	38.45	PASS
Band5	1.4	20525	3	#Mid	QAM16	22.34	1.31	21.5	38.45	PASS
Band5	1.4	20525	3	#Max	QAM16	22.34	1.31	21.5	38.45	PASS
Band5	1.4	20525	6	#0	QAM16	21.25	1.31	20.41	38.45	PASS
Band5	1.4	20643	1	#0	QPSK	22.83	1.31	21.99	38.45	PASS
Band5	1.4	20643	1	#Mid	QPSK	22.97	1.31	22.13	38.45	PASS
Band5	1.4	20643	1	#Max	QPSK	22.79	1.31	21.95	38.45	PASS
Band5	1.4	20643	3	#0	QPSK	22.83	1.31	21.99	38.45	PASS
Band5	1.4	20643	3	#Mid	QPSK	22.8	1.31	21.96	38.45	PASS
Band5	1.4	20643	3	#Max	QPSK	22.81	1.31	21.97	38.45	PASS
Band5	1.4	20643	6	#0	QPSK	21.79	1.31	20.95	38.45	PASS
Band5	1.4	20643	1	#0	QAM16	21.63	1.31	20.79	38.45	PASS
Band5	1.4	20643	1	#Mid	QAM16	21.78	1.31	20.94	38.45	PASS
Band5	1.4	20643	1	#Max	QAM16	21.65	1.31	20.81	38.45	PASS
Band5	1.4	20643	3	#0	QAM16	21.98	1.31	21.14	38.45	PASS
Band5	1.4	20643	3	#Mid	QAM16	22.01	1.31	21.17	38.45	PASS

Band5	1.4	20643	3	#Max	QAM16	21.97	1.31	21.13	38.45	PASS
Band5	1.4	20643	6	#0	QAM16	21.01	1.31	20.17	38.45	PASS
Band5	3	20415	1	#0	QPSK	22.97	1.31	22.13	38.45	PASS
Band5	3	20415	1	#Mid	QPSK	23.31	1.31	22.47	38.45	PASS
Band5	3	20415	1	#Max	QPSK	22.99	1.31	22.15	38.45	PASS
Band5	3	20415	8	#0	QPSK	21.92	1.31	21.08	38.45	PASS
Band5	3	20415	8	#Mid	QPSK	21.97	1.31	21.13	38.45	PASS
Band5	3	20415	8	#Max	QPSK	22.01	1.31	21.17	38.45	PASS
Band5	3	20415	15	#0	QPSK	21.91	1.31	21.07	38.45	PASS
Band5	3	20415	1	#0	QAM16	22.41	1.31	21.57	38.45	PASS
Band5	3	20415	1	#Mid	QAM16	22.72	1.31	21.88	38.45	PASS
Band5	3	20415	1	#Max	QAM16	22.44	1.31	21.6	38.45	PASS
Band5	3	20415	8	#0	QAM16	21	1.31	20.16	38.45	PASS
Band5	3	20415	8	#Mid	QAM16	21.04	1.31	20.2	38.45	PASS
Band5	3	20415	8	#Max	QAM16	21.07	1.31	20.23	38.45	PASS
Band5	3	20415	15	#0	QAM16	21	1.31	20.16	38.45	PASS
Band5	3	20525	1	#0	QPSK	23.19	1.31	22.35	38.45	PASS
Band5	3	20525	1	#Mid	QPSK	23.46	1.31	22.62	38.45	PASS
Band5	3	20525	1	#Max	QPSK	23.18	1.31	22.34	38.45	PASS
Band5	3	20525	8	#0	QPSK	22.12	1.31	21.28	38.45	PASS
Band5	3	20525	8	#Mid	QPSK	22.13	1.31	21.29	38.45	PASS
Band5	3	20525	8	#Max	QPSK	22.1	1.31	21.26	38.45	PASS
Band5	3	20525	15	#0	QPSK	22.1	1.31	21.26	38.45	PASS
Band5	3	20525	1	#0	QAM16	22.36	1.31	21.52	38.45	PASS
Band5	3	20525	1	#Mid	QAM16	22.66	1.31	21.82	38.45	PASS
Band5	3	20525	1	#Max	QAM16	22.37	1.31	21.53	38.45	PASS
Band5	3	20525	8	#0	QAM16	21.16	1.31	20.32	38.45	PASS
Band5	3	20525	8	#Mid	QAM16	21.17	1.31	20.33	38.45	PASS
Band5	3	20525	8	#Max	QAM16	21.15	1.31	20.31	38.45	PASS
Band5	3	20525	15	#0	QAM16	21.13	1.31	20.29	38.45	PASS
Band5	3	20635	1	#0	QPSK	22.95	1.31	22.11	38.45	PASS
Band5	3	20635	1	#Mid	QPSK	23.32	1.31	22.48	38.45	PASS
Band5	3	20635	1	#Max	QPSK	22.97	1.31	22.13	38.45	PASS
Band5	3	20635	8	#0	QPSK	21.93	1.31	21.09	38.45	PASS
Band5	3	20635	8	#Mid	QPSK	21.9	1.31	21.06	38.45	PASS
Band5	3	20635	8	#Max	QPSK	21.83	1.31	20.99	38.45	PASS
Band5	3	20635	15	#0	QPSK	21.87	1.31	21.03	38.45	PASS
Band5	3	20635	1	#0	QAM16	21.77	1.31	20.93	38.45	PASS
Band5	3	20635	1	#Mid	QAM16	22.05	1.31	21.21	38.45	PASS
Band5	3	20635	1	#Max	QAM16	21.79	1.31	20.95	38.45	PASS
Band5	3	20635	8	#0	QAM16	20.93	1.31	20.09	38.45	PASS
Band5	3	20635	8	#Mid	QAM16	20.94	1.31	20.1	38.45	PASS
Band5	3	20635	8	#Max	QAM16	20.89	1.31	20.05	38.45	PASS
Band5	3	20635	15	#0	QAM16	20.99	1.31	20.15	38.45	PASS
Band5	5	20425	1	#0	QPSK	22.74	1.31	21.9	38.45	PASS
Band5	5	20425	1	#Mid	QPSK	23.26	1.31	22.42	38.45	PASS

Band5	5	20425	1	#Max	QPSK	22.9	1.31	22.06	38.45	PASS
Band5	5	20425	12	#0	QPSK	21.71	1.31	20.87	38.45	PASS
Band5	5	20425	12	#Mid	QPSK	21.95	1.31	21.11	38.45	PASS
Band5	5	20425	12	#Max	QPSK	21.92	1.31	21.08	38.45	PASS
Band5	5	20425	25	#0	QPSK	21.89	1.31	21.05	38.45	PASS
Band5	5	20425	1	#0	QAM16	22.32	1.31	21.48	38.45	PASS
Band5	5	20425	1	#Mid	QAM16	22.83	1.31	21.99	38.45	PASS
Band5	5	20425	1	#Max	QAM16	22.47	1.31	21.63	38.45	PASS
Band5	5	20425	12	#0	QAM16	20.83	1.31	19.99	38.45	PASS
Band5	5	20425	12	#Mid	QAM16	21.04	1.31	20.2	38.45	PASS
Band5	5	20425	12	#Max	QAM16	21.03	1.31	20.19	38.45	PASS
Band5	5	20425	25	#0	QAM16	20.88	1.31	20.04	38.45	PASS
Band5	5	20525	1	#0	QPSK	22.98	1.31	22.14	38.45	PASS
Band5	5	20525	1	#Mid	QPSK	23.48	1.31	22.64	38.45	PASS
Band5	5	20525	1	#Max	QPSK	23	1.31	22.16	38.45	PASS
Band5	5	20525	12	#0	QPSK	22.07	1.31	21.23	38.45	PASS
Band5	5	20525	12	#Mid	QPSK	22.06	1.31	21.22	38.45	PASS
Band5	5	20525	12	#Max	QPSK	21.95	1.31	21.11	38.45	PASS
Band5	5	20525	25	#0	QPSK	22.08	1.31	21.24	38.45	PASS
Band5	5	20525	1	#0	QAM16	22.32	1.31	21.48	38.45	PASS
Band5	5	20525	1	#Mid	QAM16	22.73	1.31	21.89	38.45	PASS
Band5	5	20525	1	#Max	QAM16	22.31	1.31	21.47	38.45	PASS
Band5	5	20525	12	#0	QAM16	21.15	1.31	20.31	38.45	PASS
Band5	5	20525	12	#Mid	QAM16	21.13	1.31	20.29	38.45	PASS
Band5	5	20525	12	#Max	QAM16	20.98	1.31	20.14	38.45	PASS
Band5	5	20525	25	#0	QAM16	21.14	1.31	20.3	38.45	PASS
Band5	5	20625	1	#0	QPSK	22.73	1.31	21.89	38.45	PASS
Band5	5	20625	1	#Mid	QPSK	23.2	1.31	22.36	38.45	PASS
Band5	5	20625	1	#Max	QPSK	22.69	1.31	21.85	38.45	PASS
Band5	5	20625	12	#0	QPSK	21.77	1.31	20.93	38.45	PASS
Band5	5	20625	12	#Mid	QPSK	21.86	1.31	21.02	38.45	PASS
Band5	5	20625	12	#Max	QPSK	21.75	1.31	20.91	38.45	PASS
Band5	5	20625	25	#0	QPSK	21.81	1.31	20.97	38.45	PASS
Band5	5	20625	1	#0	QAM16	22.08	1.31	21.24	38.45	PASS
Band5	5	20625	1	#Mid	QAM16	22.56	1.31	21.72	38.45	PASS
Band5	5	20625	1	#Max	QAM16	22.04	1.31	21.2	38.45	PASS
Band5	5	20625	12	#0	QAM16	20.91	1.31	20.07	38.45	PASS
Band5	5	20625	12	#Mid	QAM16	20.98	1.31	20.14	38.45	PASS
Band5	5	20625	12	#Max	QAM16	20.84	1.31	20	38.45	PASS
Band5	5	20625	25	#0	QAM16	20.81	1.31	19.97	38.45	PASS
Band5	10	20450	1	#0	QPSK	22.87	1.31	22.03	38.45	PASS
Band5	10	20450	1	#Mid	QPSK	23.14	1.31	22.3	38.45	PASS
Band5	10	20450	1	#Max	QPSK	23.15	1.31	22.31	38.45	PASS
Band5	10	20450	25	#0	QPSK	21.9	1.31	21.06	38.45	PASS
Band5	10	20450	25	#Mid	QPSK	22.04	1.31	21.2	38.45	PASS
Band5	10	20450	25	#Max	QPSK	21.95	1.31	21.11	38.45	PASS

Band5	10	20450	50	#0	QPSK	21.94	1.31	21.1	38.45	PASS
Band5	10	20450	1	#0	QAM16	21.66	1.31	20.82	38.45	PASS
Band5	10	20450	1	#Mid	QAM16	22	1.31	21.16	38.45	PASS
Band5	10	20450	1	#Max	QAM16	21.94	1.31	21.1	38.45	PASS
Band5	10	20450	25	#0	QAM16	20.93	1.31	20.09	38.45	PASS
Band5	10	20450	25	#Mid	QAM16	21.06	1.31	20.22	38.45	PASS
Band5	10	20450	25	#Max	QAM16	21.04	1.31	20.2	38.45	PASS
Band5	10	20450	50	#0	QAM16	20.95	1.31	20.11	38.45	PASS
Band5	10	20525	1	#0	QPSK	22.99	1.31	22.15	38.45	PASS
Band5	10	20525	1	#Mid	QPSK	23.2	1.31	22.36	38.45	PASS
Band5	10	20525	1	#Max	QPSK	22.97	1.31	22.13	38.45	PASS
Band5	10	20525	25	#0	QPSK	22.25	1.31	21.41	38.45	PASS
Band5	10	20525	25	#Mid	QPSK	22.12	1.31	21.28	38.45	PASS
Band5	10	20525	25	#Max	QPSK	22.14	1.31	21.3	38.45	PASS
Band5	10	20525	50	#0	QPSK	22.21	1.31	21.37	38.45	PASS
Band5	10	20525	1	#0	QAM16	22.43	1.31	21.59	38.45	PASS
Band5	10	20525	1	#Mid	QAM16	22.63	1.31	21.79	38.45	PASS
Band5	10	20525	1	#Max	QAM16	22.4	1.31	21.56	38.45	PASS
Band5	10	20525	25	#0	QAM16	21.33	1.31	20.49	38.45	PASS
Band5	10	20525	25	#Mid	QAM16	21.18	1.31	20.34	38.45	PASS
Band5	10	20525	25	#Max	QAM16	21.22	1.31	20.38	38.45	PASS
Band5	10	20525	50	#0	QAM16	21.26	1.31	20.42	38.45	PASS
Band5	10	20600	1	#0	QPSK	22.96	1.31	22.12	38.45	PASS
Band5	10	20600	1	#Mid	QPSK	23.09	1.31	22.25	38.45	PASS
Band5	10	20600	1	#Max	QPSK	22.83	1.31	21.99	38.45	PASS
Band5	10	20600	25	#0	QPSK	21.91	1.31	21.07	38.45	PASS
Band5	10	20600	25	#Mid	QPSK	21.97	1.31	21.13	38.45	PASS
Band5	10	20600	25	#Max	QPSK	21.95	1.31	21.11	38.45	PASS
Band5	10	20600	50	#0	QPSK	21.97	1.31	21.13	38.45	PASS
Band5	10	20600	1	#0	QAM16	22.15	1.31	21.31	38.45	PASS
Band5	10	20600	1	#Mid	QAM16	22.21	1.31	21.37	38.45	PASS
Band5	10	20600	1	#Max	QAM16	21.97	1.31	21.13	38.45	PASS
Band5	10	20600	25	#0	QAM16	21	1.31	20.16	38.45	PASS
Band5	10	20600	25	#Mid	QAM16	20.98	1.31	20.14	38.45	PASS
Band5	10	20600	25	#Max	QAM16	21.02	1.31	20.18	38.45	PASS
Band5	10	20600	50	#0	QAM16	21	1.31	20.16	38.45	PASS
Band12	1.4	23017	1	#0	QPSK	23.08	1.07	22	34.77	PASS
Band12	1.4	23017	1	#Mid	QPSK	23.2	1.07	22.12	34.77	PASS
Band12	1.4	23017	1	#Max	QPSK	23.08	1.07	22	34.77	PASS
Band12	1.4	23017	3	#0	QPSK	23.09	1.07	22.01	34.77	PASS
Band12	1.4	23017	3	#Mid	QPSK	23.04	1.07	21.96	34.77	PASS
Band12	1.4	23017	3	#Max	QPSK	23.05	1.07	21.97	34.77	PASS
Band12	1.4	23017	6	#0	QPSK	22.09	1.07	21.01	34.77	PASS
Band12	1.4	23017	1	#0	QAM16	21.91	1.07	20.83	34.77	PASS
Band12	1.4	23017	1	#Mid	QAM16	22.04	1.07	20.96	34.77	PASS
Band12	1.4	23017	1	#Max	QAM16	21.9	1.07	20.82	34.77	PASS

Band12	1.4	23017	3	#0	QAM16	22.24	1.07	21.16	34.77	PASS
Band12	1.4	23017	3	#Mid	QAM16	22.26	1.07	21.18	34.77	PASS
Band12	1.4	23017	3	#Max	QAM16	22.28	1.07	21.2	34.77	PASS
Band12	1.4	23017	6	#0	QAM16	21.22	1.07	20.14	34.77	PASS
Band12	1.4	23095	1	#0	QPSK	23.2	1.07	22.12	34.77	PASS
Band12	1.4	23095	1	#Mid	QPSK	23.35	1.07	22.27	34.77	PASS
Band12	1.4	23095	1	#Max	QPSK	23.21	1.07	22.13	34.77	PASS
Band12	1.4	23095	3	#0	QPSK	23.13	1.07	22.05	34.77	PASS
Band12	1.4	23095	3	#Mid	QPSK	23.17	1.07	22.09	34.77	PASS
Band12	1.4	23095	3	#Max	QPSK	23.17	1.07	22.09	34.77	PASS
Band12	1.4	23095	6	#0	QPSK	22.21	1.07	21.13	34.77	PASS
Band12	1.4	23095	1	#0	QAM16	22.36	1.07	21.28	34.77	PASS
Band12	1.4	23095	1	#Mid	QAM16	22.43	1.07	21.35	34.77	PASS
Band12	1.4	23095	1	#Max	QAM16	22.34	1.07	21.26	34.77	PASS
Band12	1.4	23095	3	#0	QAM16	22.43	1.07	21.35	34.77	PASS
Band12	1.4	23095	3	#Mid	QAM16	22.44	1.07	21.36	34.77	PASS
Band12	1.4	23095	3	#Max	QAM16	22.4	1.07	21.32	34.77	PASS
Band12	1.4	23095	6	#0	QAM16	21.37	1.07	20.29	34.77	PASS
Band12	1.4	23173	1	#0	QPSK	22.85	1.07	21.77	34.77	PASS
Band12	1.4	23173	1	#Mid	QPSK	22.97	1.07	21.89	34.77	PASS
Band12	1.4	23173	1	#Max	QPSK	22.82	1.07	21.74	34.77	PASS
Band12	1.4	23173	3	#0	QPSK	22.92	1.07	21.84	34.77	PASS
Band12	1.4	23173	3	#Mid	QPSK	22.91	1.07	21.83	34.77	PASS
Band12	1.4	23173	3	#Max	QPSK	22.91	1.07	21.83	34.77	PASS
Band12	1.4	23173	6	#0	QPSK	21.94	1.07	20.86	34.77	PASS
Band12	1.4	23173	1	#0	QAM16	22.12	1.07	21.04	34.77	PASS
Band12	1.4	23173	1	#Mid	QAM16	22.09	1.07	21.01	34.77	PASS
Band12	1.4	23173	1	#Max	QAM16	21.85	1.07	20.77	34.77	PASS
Band12	1.4	23173	3	#0	QAM16	22.12	1.07	21.04	34.77	PASS
Band12	1.4	23173	3	#Mid	QAM16	22.1	1.07	21.02	34.77	PASS
Band12	1.4	23173	3	#Max	QAM16	21.99	1.07	20.91	34.77	PASS
Band12	1.4	23173	6	#0	QAM16	21.06	1.07	19.98	34.77	PASS
Band12	3	23025	1	#0	QPSK	23.02	1.07	21.94	34.77	PASS
Band12	3	23025	1	#Mid	QPSK	23.38	1.07	22.3	34.77	PASS
Band12	3	23025	1	#Max	QPSK	23.07	1.07	21.99	34.77	PASS
Band12	3	23025	8	#0	QPSK	22.11	1.07	21.03	34.77	PASS
Band12	3	23025	8	#Mid	QPSK	22.16	1.07	21.08	34.77	PASS
Band12	3	23025	8	#Max	QPSK	22.14	1.07	21.06	34.77	PASS
Band12	3	23025	15	#0	QPSK	22.05	1.07	20.97	34.77	PASS
Band12	3	23025	1	#0	QAM16	22.52	1.07	21.44	34.77	PASS
Band12	3	23025	1	#Mid	QAM16	22.77	1.07	21.69	34.77	PASS
Band12	3	23025	1	#Max	QAM16	22.59	1.07	21.51	34.77	PASS
Band12	3	23025	8	#0	QAM16	21.11	1.07	20.03	34.77	PASS
Band12	3	23025	8	#Mid	QAM16	21.17	1.07	20.09	34.77	PASS
Band12	3	23025	8	#Max	QAM16	21.11	1.07	20.03	34.77	PASS
Band12	3	23025	15	#0	QAM16	21.08	1.07	20	34.77	PASS

Band12	3	23095	1	#0	QPSK	23.04	1.07	21.96	34.77	PASS
Band12	3	23095	1	#Mid	QPSK	23.28	1.07	22.2	34.77	PASS
Band12	3	23095	1	#Max	QPSK	22.78	1.07	21.7	34.77	PASS
Band12	3	23095	8	#0	QPSK	22.09	1.07	21.01	34.77	PASS
Band12	3	23095	8	#Mid	QPSK	22.2	1.07	21.12	34.77	PASS
Band12	3	23095	8	#Max	QPSK	22.2	1.07	21.12	34.77	PASS
Band12	3	23095	15	#0	QPSK	21.99	1.07	20.91	34.77	PASS
Band12	3	23095	1	#0	QAM16	21.96	1.07	20.88	34.77	PASS
Band12	3	23095	1	#Mid	QAM16	22.34	1.07	21.26	34.77	PASS
Band12	3	23095	1	#Max	QAM16	21.93	1.07	20.85	34.77	PASS
Band12	3	23095	8	#0	QAM16	20.8	1.07	19.72	34.77	PASS
Band12	3	23095	8	#Mid	QAM16	20.84	1.07	19.76	34.77	PASS
Band12	3	23095	8	#Max	QAM16	20.82	1.07	19.74	34.77	PASS
Band12	3	23095	15	#0	QAM16	20.65	1.07	19.57	34.77	PASS
Band12	3	23165	1	#0	QPSK	22.68	1.07	21.6	34.77	PASS
Band12	3	23165	1	#Mid	QPSK	22.96	1.07	21.88	34.77	PASS
Band12	3	23165	1	#Max	QPSK	22.65	1.07	21.57	34.77	PASS
Band12	3	23165	8	#0	QPSK	21.75	1.07	20.67	34.77	PASS
Band12	3	23165	8	#Mid	QPSK	21.63	1.07	20.55	34.77	PASS
Band12	3	23165	8	#Max	QPSK	21.66	1.07	20.58	34.77	PASS
Band12	3	23165	15	#0	QPSK	21.7	1.07	20.62	34.77	PASS
Band12	3	23165	1	#0	QAM16	21.52	1.07	20.44	34.77	PASS
Band12	3	23165	1	#Mid	QAM16	21.77	1.07	20.69	34.77	PASS
Band12	3	23165	1	#Max	QAM16	21.44	1.07	20.36	34.77	PASS
Band12	3	23165	8	#0	QAM16	20.61	1.07	19.53	34.77	PASS
Band12	3	23165	8	#Mid	QAM16	20.71	1.07	19.63	34.77	PASS
Band12	3	23165	8	#Max	QAM16	20.64	1.07	19.56	34.77	PASS
Band12	3	23165	15	#0	QAM16	20.64	1.07	19.56	34.77	PASS
Band12	5	23035	1	#0	QPSK	22.86	1.07	21.78	34.77	PASS
Band12	5	23035	1	#Mid	QPSK	23.28	1.07	22.2	34.77	PASS
Band12	5	23035	1	#Max	QPSK	22.99	1.07	21.91	34.77	PASS
Band12	5	23035	12	#0	QPSK	22.04	1.07	20.96	34.77	PASS
Band12	5	23035	12	#Mid	QPSK	22.1	1.07	21.02	34.77	PASS
Band12	5	23035	12	#Max	QPSK	22.03	1.07	20.95	34.77	PASS
Band12	5	23035	25	#0	QPSK	22.09	1.07	21.01	34.77	PASS
Band12	5	23035	1	#0	QAM16	22.46	1.07	21.38	34.77	PASS
Band12	5	23035	1	#Mid	QAM16	22.95	1.07	21.87	34.77	PASS
Band12	5	23035	1	#Max	QAM16	22.56	1.07	21.48	34.77	PASS
Band12	5	23035	12	#0	QAM16	21.02	1.07	19.94	34.77	PASS
Band12	5	23035	12	#Mid	QAM16	21.1	1.07	20.02	34.77	PASS
Band12	5	23035	12	#Max	QAM16	21.04	1.07	19.96	34.77	PASS
Band12	5	23035	25	#0	QAM16	21.03	1.07	19.95	34.77	PASS
Band12	5	23095	1	#0	QPSK	22.81	1.07	21.73	34.77	PASS
Band12	5	23095	1	#Mid	QPSK	23.42	1.07	22.34	34.77	PASS
Band12	5	23095	1	#Max	QPSK	22.71	1.07	21.63	34.77	PASS
Band12	5	23095	12	#0	QPSK	21.97	1.07	20.89	34.77	PASS

Band12	5	23095	12	#Mid	QPSK	22.18	1.07	21.1	34.77	PASS
Band12	5	23095	12	#Max	QPSK	22.07	1.07	20.99	34.77	PASS
Band12	5	23095	25	#0	QPSK	22.07	1.07	20.99	34.77	PASS
Band12	5	23095	1	#0	QAM16	21.89	1.07	20.81	34.77	PASS
Band12	5	23095	1	#Mid	QAM16	22.3	1.07	21.22	34.77	PASS
Band12	5	23095	1	#Max	QAM16	21.92	1.07	20.84	34.77	PASS
Band12	5	23095	12	#0	QAM16	20.62	1.07	19.54	34.77	PASS
Band12	5	23095	12	#Mid	QAM16	20.7	1.07	19.62	34.77	PASS
Band12	5	23095	12	#Max	QAM16	20.68	1.07	19.6	34.77	PASS
Band12	5	23095	25	#0	QAM16	20.74	1.07	19.66	34.77	PASS
Band12	5	23155	1	#0	QPSK	22.46	1.07	21.38	34.77	PASS
Band12	5	23155	1	#Mid	QPSK	22.89	1.07	21.81	34.77	PASS
Band12	5	23155	1	#Max	QPSK	22.36	1.07	21.28	34.77	PASS
Band12	5	23155	12	#0	QPSK	21.48	1.07	20.4	34.77	PASS
Band12	5	23155	12	#Mid	QPSK	21.67	1.07	20.59	34.77	PASS
Band12	5	23155	12	#Max	QPSK	21.47	1.07	20.39	34.77	PASS
Band12	5	23155	25	#0	QPSK	21.58	1.07	20.5	34.77	PASS
Band12	5	23155	1	#0	QAM16	21.83	1.07	20.75	34.77	PASS
Band12	5	23155	1	#Mid	QAM16	22.09	1.07	21.01	34.77	PASS
Band12	5	23155	1	#Max	QAM16	21.65	1.07	20.57	34.77	PASS
Band12	5	23155	12	#0	QAM16	20.56	1.07	19.48	34.77	PASS
Band12	5	23155	12	#Mid	QAM16	20.71	1.07	19.63	34.77	PASS
Band12	5	23155	12	#Max	QAM16	20.51	1.07	19.43	34.77	PASS
Band12	5	23155	25	#0	QAM16	20.52	1.07	19.44	34.77	PASS
Band12	10	23060	1	#0	QPSK	22.98	1.07	21.9	34.77	PASS
Band12	10	23060	1	#Mid	QPSK	23.34	1.07	22.26	34.77	PASS
Band12	10	23060	1	#Max	QPSK	23.18	1.07	22.1	34.77	PASS
Band12	10	23060	25	#0	QPSK	22.23	1.07	21.15	34.77	PASS
Band12	10	23060	25	#Mid	QPSK	22.21	1.07	21.13	34.77	PASS
Band12	10	23060	25	#Max	QPSK	22.25	1.07	21.17	34.77	PASS
Band12	10	23060	50	#0	QPSK	22.24	1.07	21.16	34.77	PASS
Band12	10	23060	1	#0	QAM16	21.8	1.07	20.72	34.77	PASS
Band12	10	23060	1	#Mid	QAM16	21.98	1.07	20.9	34.77	PASS
Band12	10	23060	1	#Max	QAM16	21.66	1.07	20.58	34.77	PASS
Band12	10	23060	25	#0	QAM16	21.12	1.07	20.04	34.77	PASS
Band12	10	23060	25	#Mid	QAM16	21.2	1.07	20.12	34.77	PASS
Band12	10	23060	25	#Max	QAM16	21.24	1.07	20.16	34.77	PASS
Band12	10	23060	50	#0	QAM16	21.15	1.07	20.07	34.77	PASS
Band12	10	23095	1	#0	QPSK	22.64	1.07	21.56	34.77	PASS
Band12	10	23095	1	#Mid	QPSK	22.79	1.07	21.71	34.77	PASS
Band12	10	23095	1	#Max	QPSK	22.6	1.07	21.52	34.77	PASS
Band12	10	23095	25	#0	QPSK	21.84	1.07	20.76	34.77	PASS
Band12	10	23095	25	#Mid	QPSK	21.85	1.07	20.77	34.77	PASS
Band12	10	23095	25	#Max	QPSK	21.93	1.07	20.85	34.77	PASS
Band12	10	23095	50	#0	QPSK	21.82	1.07	20.74	34.77	PASS
Band12	10	23095	1	#0	QAM16	22.02	1.07	20.94	34.77	PASS

Band12	10	23095	1	#Mid	QAM16	22.26	1.07	21.18	34.77	PASS
Band12	10	23095	1	#Max	QAM16	22	1.07	20.92	34.77	PASS
Band12	10	23095	25	#0	QAM16	20.78	1.07	19.7	34.77	PASS
Band12	10	23095	25	#Mid	QAM16	20.77	1.07	19.69	34.77	PASS
Band12	10	23095	25	#Max	QAM16	20.98	1.07	19.9	34.77	PASS
Band12	10	23095	50	#0	QAM16	20.9	1.07	19.82	34.77	PASS
Band12	10	23130	1	#0	QPSK	22.62	1.07	21.54	34.77	PASS
Band12	10	23130	1	#Mid	QPSK	22.77	1.07	21.69	34.77	PASS
Band12	10	23130	1	#Max	QPSK	22.5	1.07	21.42	34.77	PASS
Band12	10	23130	25	#0	QPSK	21.66	1.07	20.58	34.77	PASS
Band12	10	23130	25	#Mid	QPSK	21.68	1.07	20.6	34.77	PASS
Band12	10	23130	25	#Max	QPSK	21.57	1.07	20.49	34.77	PASS
Band12	10	23130	50	#0	QPSK	21.64	1.07	20.56	34.77	PASS
Band12	10	23130	1	#0	QAM16	21.81	1.07	20.73	34.77	PASS
Band12	10	23130	1	#Mid	QAM16	21.9	1.07	20.82	34.77	PASS
Band12	10	23130	1	#Max	QAM16	21.65	1.07	20.57	34.77	PASS
Band12	10	23130	25	#0	QAM16	20.69	1.07	19.61	34.77	PASS
Band12	10	23130	25	#Mid	QAM16	20.65	1.07	19.57	34.77	PASS
Band12	10	23130	25	#Max	QAM16	20.56	1.07	19.48	34.77	PASS
Band12	10	23130	50	#0	QAM16	20.68	1.07	19.6	34.77	PASS
Band13	5	23205	1	#0	QPSK	22.53	1.07	21.45	34.77	PASS
Band13	5	23205	1	#Mid	QPSK	23.01	1.07	21.93	34.77	PASS
Band13	5	23205	1	#Max	QPSK	22.73	1.07	21.65	34.77	PASS
Band13	5	23205	12	#0	QPSK	21.72	1.07	20.64	34.77	PASS
Band13	5	23205	12	#Mid	QPSK	21.81	1.07	20.73	34.77	PASS
Band13	5	23205	12	#Max	QPSK	21.91	1.07	20.83	34.77	PASS
Band13	5	23205	25	#0	QPSK	21.83	1.07	20.75	34.77	PASS
Band13	5	23205	1	#0	QAM16	21.92	1.07	20.84	34.77	PASS
Band13	5	23205	1	#Mid	QAM16	22.7	1.07	21.62	34.77	PASS
Band13	5	23205	1	#Max	QAM16	22.3	1.07	21.22	34.77	PASS
Band13	5	23205	12	#0	QAM16	20.75	1.07	19.67	34.77	PASS
Band13	5	23205	12	#Mid	QAM16	20.83	1.07	19.75	34.77	PASS
Band13	5	23205	12	#Max	QAM16	20.91	1.07	19.83	34.77	PASS
Band13	5	23205	25	#0	QAM16	20.79	1.07	19.71	34.77	PASS
Band13	5	23230	1	#0	QPSK	22.59	1.07	21.51	34.77	PASS
Band13	5	23230	1	#Mid	QPSK	22.93	1.07	21.85	34.77	PASS
Band13	5	23230	1	#Max	QPSK	22.77	1.07	21.69	34.77	PASS
Band13	5	23230	12	#0	QPSK	21.67	1.07	20.59	34.77	PASS
Band13	5	23230	12	#Mid	QPSK	21.82	1.07	20.74	34.77	PASS
Band13	5	23230	12	#Max	QPSK	21.89	1.07	20.81	34.77	PASS
Band13	5	23230	25	#0	QPSK	21.85	1.07	20.77	34.77	PASS
Band13	5	23230	1	#0	QAM16	21.97	1.07	20.89	34.77	PASS
Band13	5	23230	1	#Mid	QAM16	22.54	1.07	21.46	34.77	PASS
Band13	5	23230	1	#Max	QAM16	22.08	1.07	21	34.77	PASS
Band13	5	23230	12	#0	QAM16	20.61	1.07	19.53	34.77	PASS
Band13	5	23230	12	#Mid	QAM16	20.8	1.07	19.72	34.77	PASS

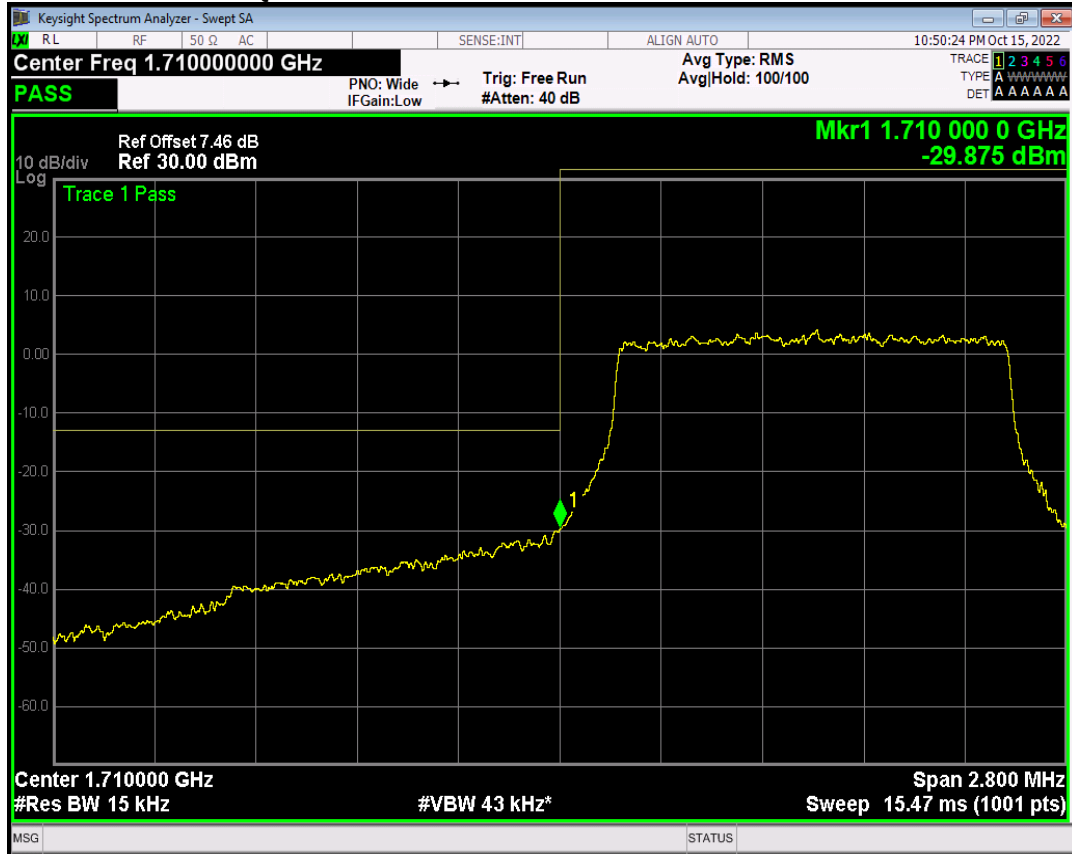
Band13	5	23230	12	#Max	QAM16	20.89	1.07	19.81	34.77	PASS
Band13	5	23230	25	#0	QAM16	20.88	1.07	19.8	34.77	PASS
Band13	5	23255	1	#0	QPSK	22.6	1.07	21.52	34.77	PASS
Band13	5	23255	1	#Mid	QPSK	23.04	1.07	21.96	34.77	PASS
Band13	5	23255	1	#Max	QPSK	22.76	1.07	21.68	34.77	PASS
Band13	5	23255	12	#0	QPSK	21.71	1.07	20.63	34.77	PASS
Band13	5	23255	12	#Mid	QPSK	21.89	1.07	20.81	34.77	PASS
Band13	5	23255	12	#Max	QPSK	21.83	1.07	20.75	34.77	PASS
Band13	5	23255	25	#0	QPSK	21.82	1.07	20.74	34.77	PASS
Band13	5	23255	1	#0	QAM16	22	1.07	20.92	34.77	PASS
Band13	5	23255	1	#Mid	QAM16	22.42	1.07	21.34	34.77	PASS
Band13	5	23255	1	#Max	QAM16	22.16	1.07	21.08	34.77	PASS
Band13	5	23255	12	#0	QAM16	20.76	1.07	19.68	34.77	PASS
Band13	5	23255	12	#Mid	QAM16	20.92	1.07	19.84	34.77	PASS
Band13	5	23255	12	#Max	QAM16	20.83	1.07	19.75	34.77	PASS
Band13	5	23255	25	#0	QAM16	20.78	1.07	19.7	34.77	PASS
Band13	10	23230	1	#0	QPSK	23.1	1.07	22.02	34.77	PASS
Band13	10	23230	1	#Mid	QPSK	23.39	1.07	22.31	34.77	PASS
Band13	10	23230	1	#Max	QPSK	23.33	1.07	22.25	34.77	PASS
Band13	10	23230	25	#0	QPSK	22.2	1.07	21.12	34.77	PASS
Band13	10	23230	25	#Mid	QPSK	22.31	1.07	21.23	34.77	PASS
Band13	10	23230	25	#Max	QPSK	22.2	1.07	21.12	34.77	PASS
Band13	10	23230	50	#0	QPSK	21.91	1.07	20.83	34.77	PASS
Band13	10	23230	1	#0	QAM16	21.87	1.07	20.79	34.77	PASS
Band13	10	23230	1	#Mid	QAM16	22.32	1.07	21.24	34.77	PASS
Band13	10	23230	1	#Max	QAM16	22.31	1.07	21.23	34.77	PASS
Band13	10	23230	25	#0	QAM16	20.77	1.07	19.69	34.77	PASS
Band13	10	23230	25	#Mid	QAM16	20.92	1.07	19.84	34.77	PASS
Band13	10	23230	25	#Max	QAM16	21	1.07	19.92	34.77	PASS
Band13	10	23230	50	#0	QAM16	20.9	1.07	19.82	34.77	PASS

BAND EDGE

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band4	1.4	19957	6	#0	QPSK	1710.00	-27.72	-13	PASS
Band4	1.4	19957	6	#0	16QAM	1710.00	-29.87	-13	PASS
Band4	1.4	20393	6	#0	QPSK	1755.01	-30.74	-13	PASS
Band4	1.4	20393	6	#0	16QAM	1755.00	-30.86	-13	PASS
Band4	3	19965	15	#0	QPSK	1709.99	-33.68	-13	PASS
Band4	3	19965	15	#0	16QAM	1710.00	-33.45	-13	PASS
Band4	3	20385	15	#0	QPSK	1755.00	-31.41	-13	PASS
Band4	3	20385	15	#0	16QAM	1755.00	-32.46	-13	PASS
Band4	5	19975	25	#0	QPSK	1710.00	-28.01	-13	PASS
Band4	5	19975	25	#0	16QAM	1710.00	-28.60	-13	PASS
Band4	5	20375	25	#0	QPSK	1755.01	-26.48	-13	PASS
Band4	5	20375	25	#0	16QAM	1755.01	-27.18	-13	PASS
Band4	10	20000	50	#0	QPSK	1709.98	-34.03	-13	PASS
Band4	10	20000	50	#0	16QAM	1710.00	-34.49	-13	PASS
Band4	10	20350	50	#0	QPSK	1755.00	-28.27	-13	PASS
Band4	10	20350	50	#0	16QAM	1755.04	-29.86	-13	PASS
Band4	15	20025	75	#0	QPSK	1709.97	-35.16	-13	PASS
Band4	15	20025	75	#0	16QAM	1710.00	-35.74	-13	PASS
Band4	15	20325	75	#0	QPSK	1755.09	-27.94	-13	PASS
Band4	15	20325	75	#0	16QAM	1755.24	-30.82	-13	PASS
Band4	20	20050	100	#0	QPSK	1709.96	-36.11	-13	PASS
Band4	20	20050	100	#0	16QAM	1709.88	-37.76	-13	PASS
Band4	20	20300	100	#0	QPSK	1755.04	-26.65	-13	PASS
Band4	20	20300	100	#0	16QAM	1755.00	-29.18	-13	PASS
Band5	1.4	20407	6	#0	QPSK	824.00	-34.07	-13	PASS
Band5	1.4	20407	6	#0	16QAM	824.00	-36.22	-13	PASS
Band5	1.4	20643	6	#0	QPSK	849.00	-33.60	-13	PASS
Band5	1.4	20643	6	#0	16QAM	849.00	-34.72	-13	PASS
Band5	3	20415	15	#0	QPSK	824.00	-35.53	-13	PASS
Band5	3	20415	15	#0	16QAM	824.00	-37.05	-13	PASS
Band5	3	20635	15	#0	QPSK	849.13	-35.44	-13	PASS
Band5	3	20635	15	#0	16QAM	849.00	-34.75	-13	PASS
Band5	5	20425	25	#0	QPSK	823.97	-30.19	-13	PASS
Band5	5	20425	25	#0	16QAM	823.98	-29.70	-13	PASS
Band5	5	20625	25	#0	QPSK	849.00	-25.61	-13	PASS
Band5	5	20625	25	#0	16QAM	849.00	-26.05	-13	PASS
Band5	10	20450	50	#0	QPSK	824.00	-34.29	-13	PASS
Band5	10	20450	50	#0	16QAM	823.84	-35.73	-13	PASS
Band5	10	20600	50	#0	QPSK	849.00	-28.81	-13	PASS
Band5	10	20600	50	#0	16QAM	849.02	-29.67	-13	PASS
Band12	1.4	23017	6	#0	QPSK	699.00	-31.04	-13	PASS
Band12	1.4	23017	6	#0	16QAM	699.00	-31.97	-13	PASS
Band12	1.4	23173	6	#0	QPSK	716.11	-17.08	-13	PASS
Band12	1.4	23173	6	#0	16QAM	716.11	-22.93	-13	PASS
Band12	3	23025	15	#0	QPSK	698.99	-36.91	-13	PASS
Band12	3	23025	15	#0	16QAM	699.00	-36.85	-13	PASS
Band12	3	23165	15	#0	QPSK	716.21	-25.65	-13	PASS
Band12	3	23165	15	#0	16QAM	716.18	-27.07	-13	PASS
Band12	5	23035	25	#0	QPSK	699.00	-29.78	-13	PASS
Band12	5	23035	25	#0	16QAM	698.90	-29.22	-13	PASS
Band12	5	23155	25	#0	QPSK	716.15	-24.51	-13	PASS
Band12	5	23155	25	#0	16QAM	716.12	-25.95	-13	PASS
Band12	10	23060	50	#0	QPSK	698.86	-33.92	-13	PASS
Band12	10	23060	50	#0	16QAM	698.85	-34.82	-13	PASS
Band12	10	23130	50	#0	QPSK	716.11	-34.07	-13	PASS
Band12	10	23130	50	#0	16QAM	716.12	-33.86	-13	PASS

Band13	5	23205	25	#0	QPSK	776.85	-21.56	-13	PASS
Band13	5	23205	25	#0	16QAM	776.89	-22.80	-13	PASS
Band13	5	23255	25	#0	QPSK	787.17	-23.97	-13	PASS
Band13	5	23255	25	#0	16QAM	787.11	-25.93	-13	PASS
Band13	10	23230	50	#0	QPSK	793.19	-45.12	-35	PASS
Band13	10	23230	50	#0	16QAM	793.18	-48.59	-35	PASS
Band66	1.4	131979	6	#0	QPSK	1710.00	-24.55	-13	PASS
Band66	1.4	131979	6	#0	16QAM	1710.00	-29.67	-13	PASS
Band66	1.4	132665	6	#0	QPSK	1780.00	-26.81	-13	PASS
Band66	1.4	132665	6	#0	16QAM	1780.00	-28.54	-13	PASS
Band66	3	131987	15	#0	QPSK	1709.99	-31.54	-13	PASS
Band66	3	131987	15	#0	16QAM	1710.00	-32.95	-13	PASS
Band66	3	132657	15	#0	QPSK	1780.02	-28.35	-13	PASS
Band66	3	132657	15	#0	16QAM	1780.00	-30.17	-13	PASS
Band66	5	131997	25	#0	QPSK	1710.00	-28.12	-13	PASS
Band66	5	131997	25	#0	16QAM	1710.00	-29.02	-13	PASS
Band66	5	132647	25	#0	QPSK	1780.06	-25.13	-13	PASS
Band66	5	132647	25	#0	16QAM	1780.02	-26.27	-13	PASS
Band66	10	132022	50	#0	QPSK	1709.96	-34.03	-13	PASS
Band66	10	132022	50	#0	16QAM	1710.00	-34.96	-13	PASS
Band66	10	132622	50	#0	QPSK	1780.08	-22.82	-13	PASS
Band66	10	132622	50	#0	16QAM	1780.08	-26.38	-13	PASS
Band66	15	132047	75	#0	QPSK	1709.94	-34.99	-13	PASS
Band66	15	132047	75	#0	16QAM	1709.94	-35.62	-13	PASS
Band66	15	132597	75	#0	QPSK	1780.27	-19.66	-13	PASS
Band66	15	132597	75	#0	16QAM	1780.42	-24.06	-13	PASS
Band66	20	132072	100	#0	QPSK	1710.00	-35.89	-13	PASS
Band66	20	132072	100	#0	16QAM	1710.00	-36.86	-13	PASS
Band66	20	132572	100	#0	QPSK	1780.08	-25.55	-13	PASS
Band66	20	132572	100	#0	16QAM	1780.00	-28.76	-13	PASS

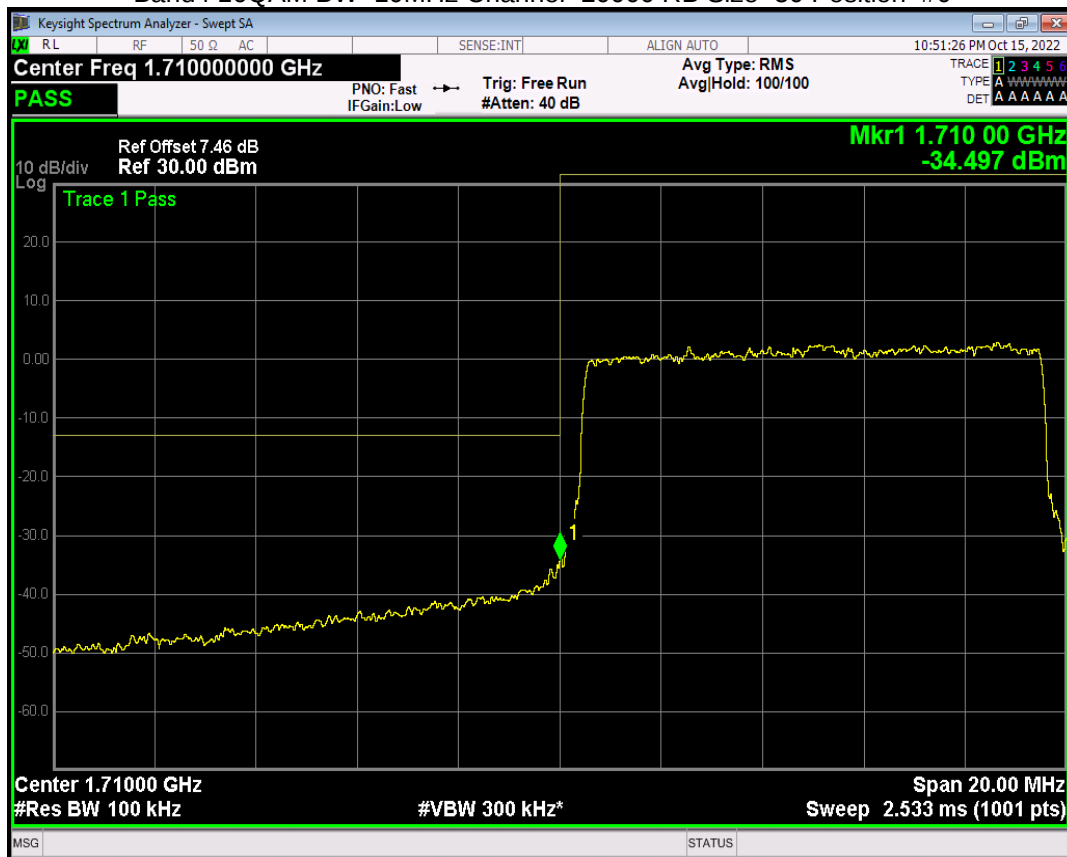
Band4 16QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0



Band4 16QAM BW=1.4MHz Channel=20393 RB Size=6 Position=#0



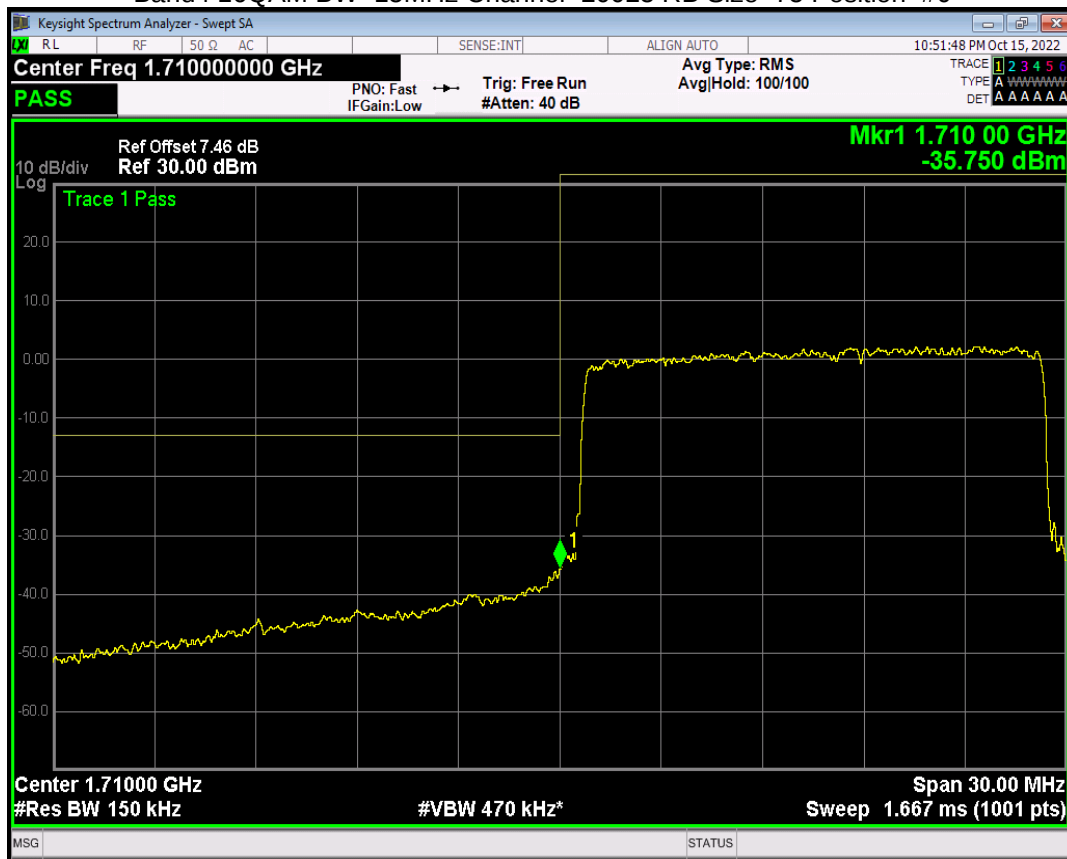
Band4 16QAM BW=10MHz Channel=20000 RB Size=50 Position=#0



Band4 16QAM BW=10MHz Channel=20350 RB Size=50 Position=#0



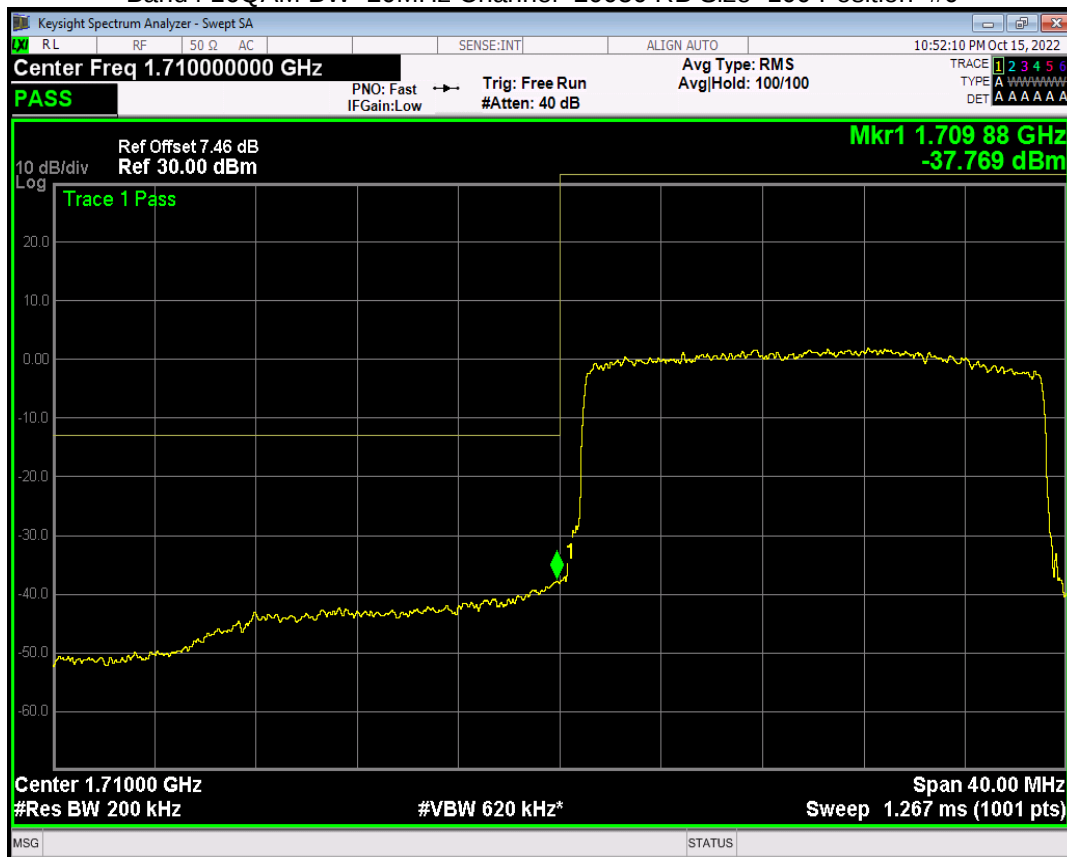
Band4 16QAM BW=15MHz Channel=20025 RB Size=75 Position=#0



Band4 16QAM BW=15MHz Channel=20325 RB Size=75 Position=#0



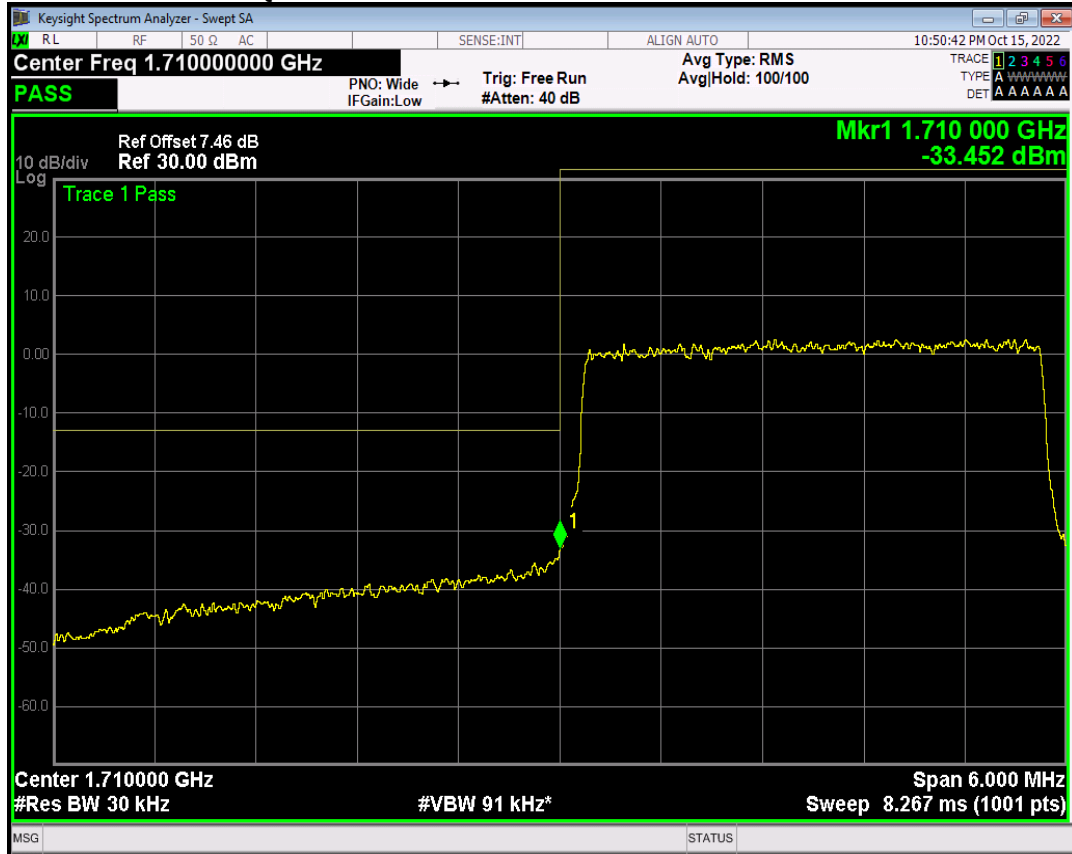
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Band4 16QAM BW=20MHz Channel=20300 RB Size=100 Position=#0



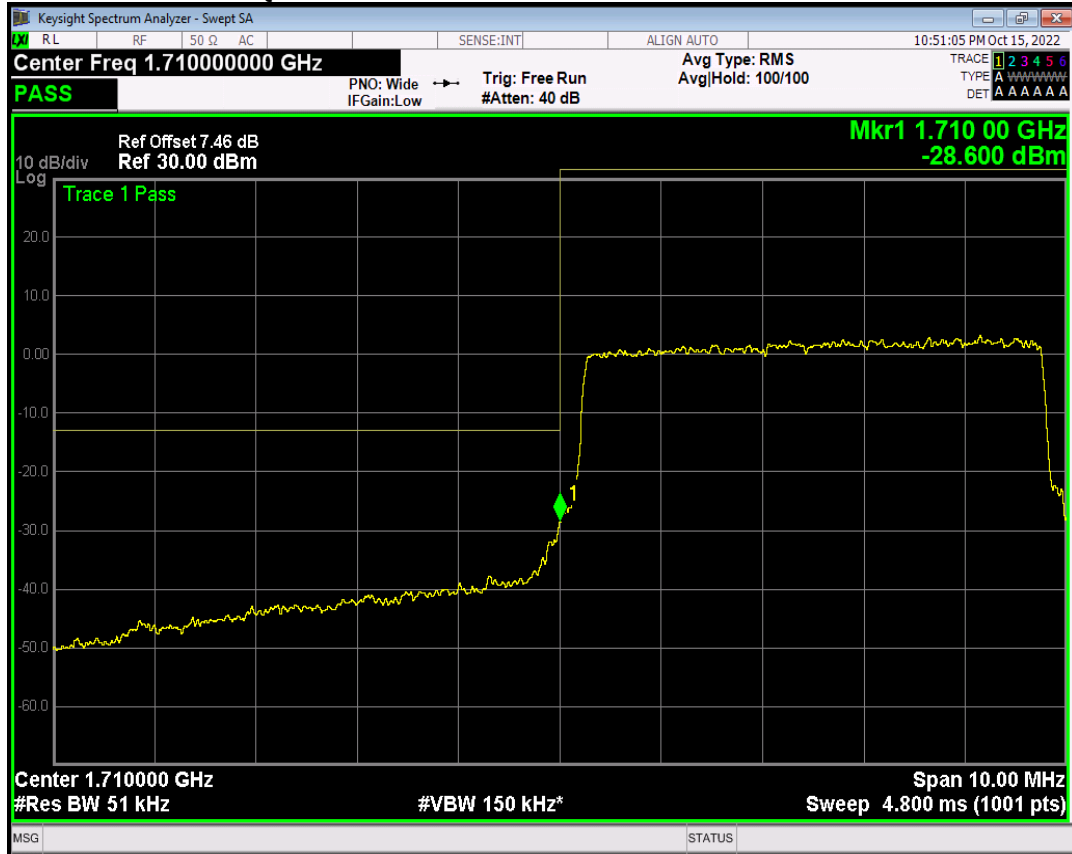
Band4 16QAM BW=3MHz Channel=19965 RB Size=15 Position=#0



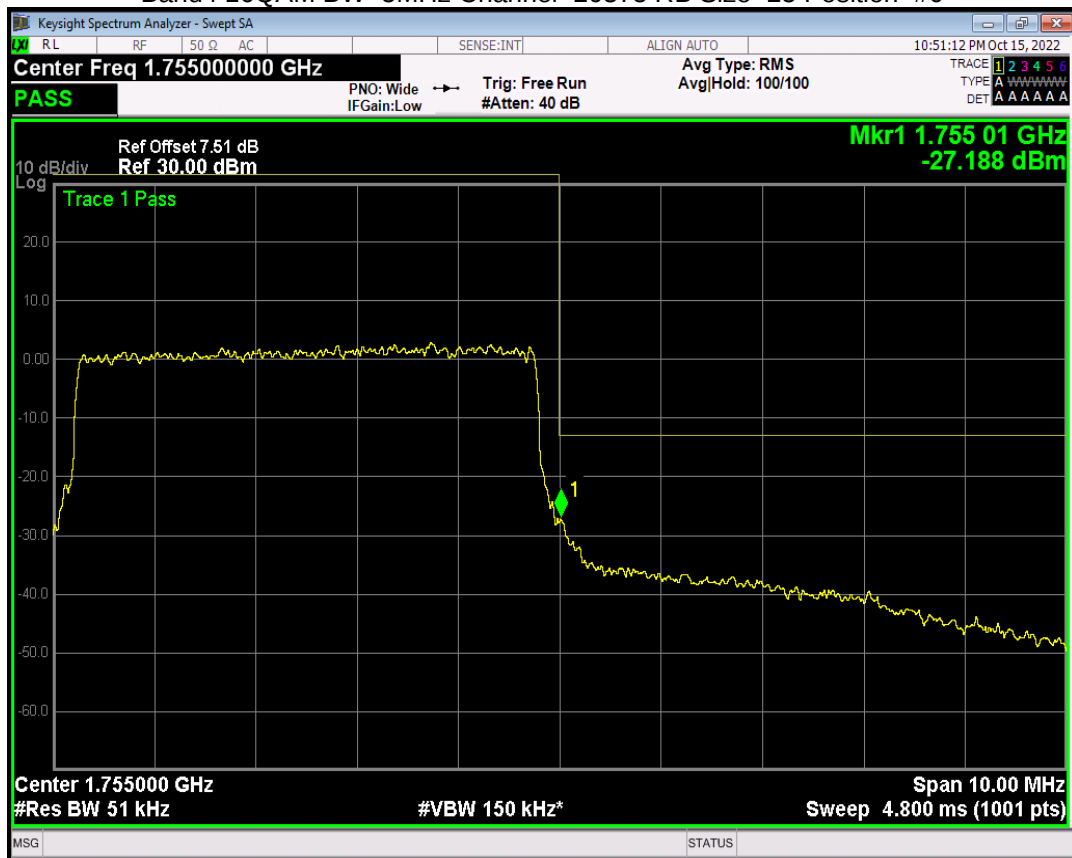
Band4 16QAM BW=3MHz Channel=20385 RB Size=15 Position=#0



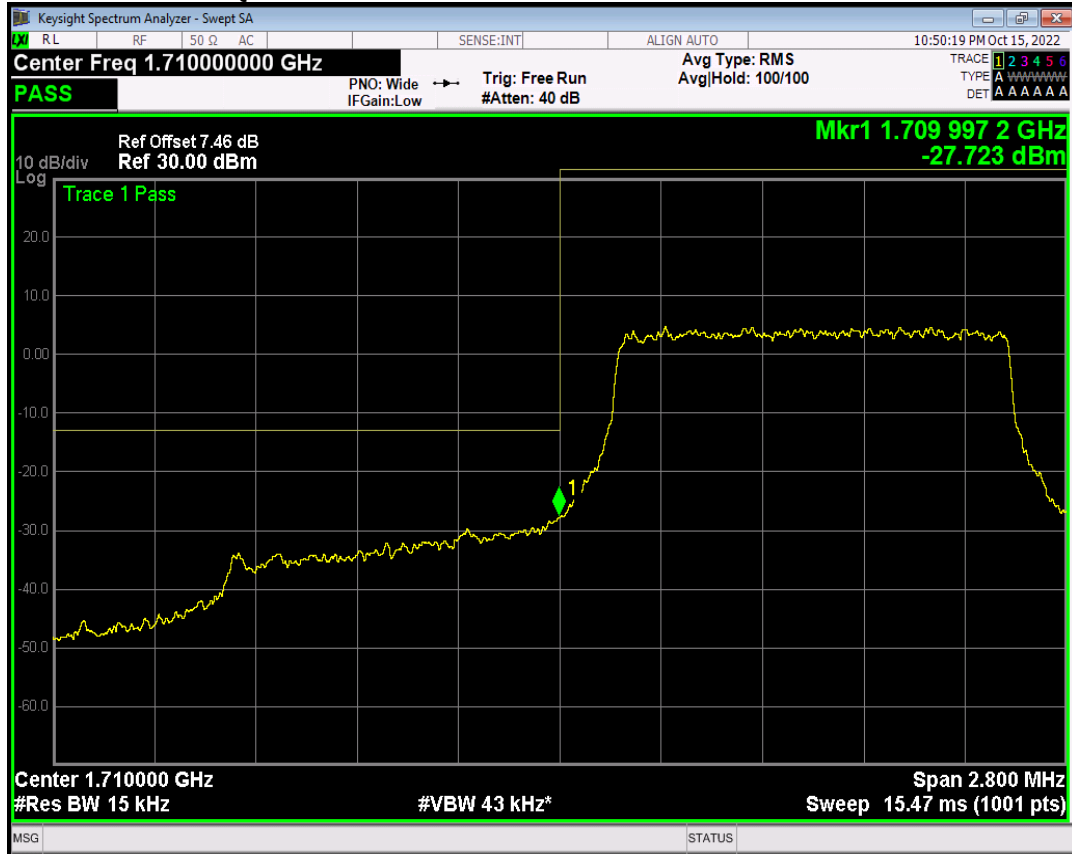
Band4 16QAM BW=5MHz Channel=19975 RB Size=25 Position=#0



Band4 16QAM BW=5MHz Channel=20375 RB Size=25 Position=#0



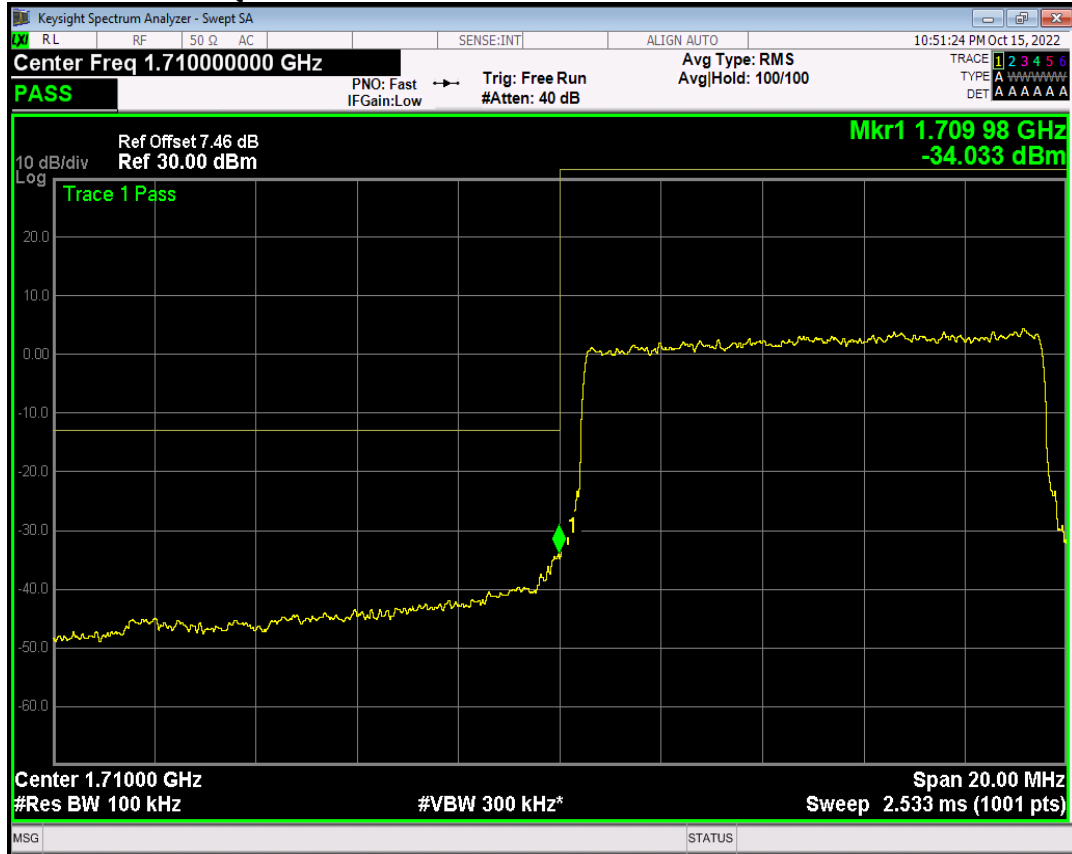
Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0



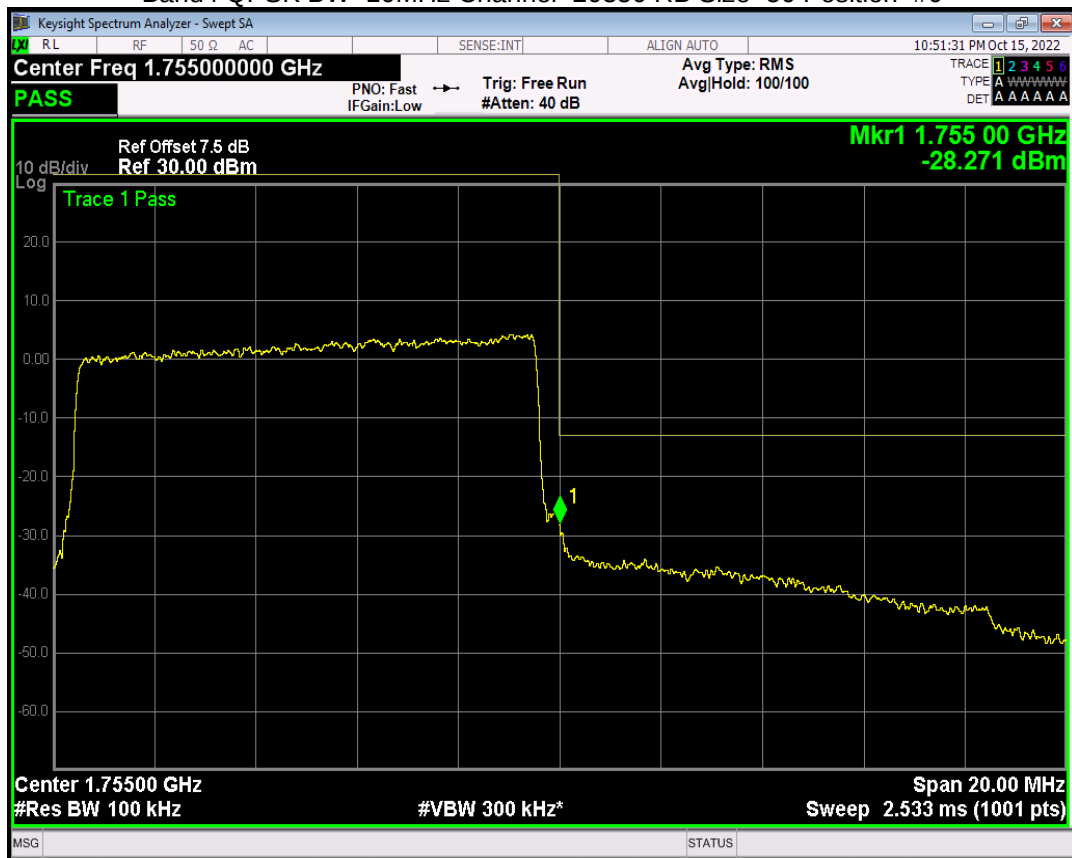
Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0



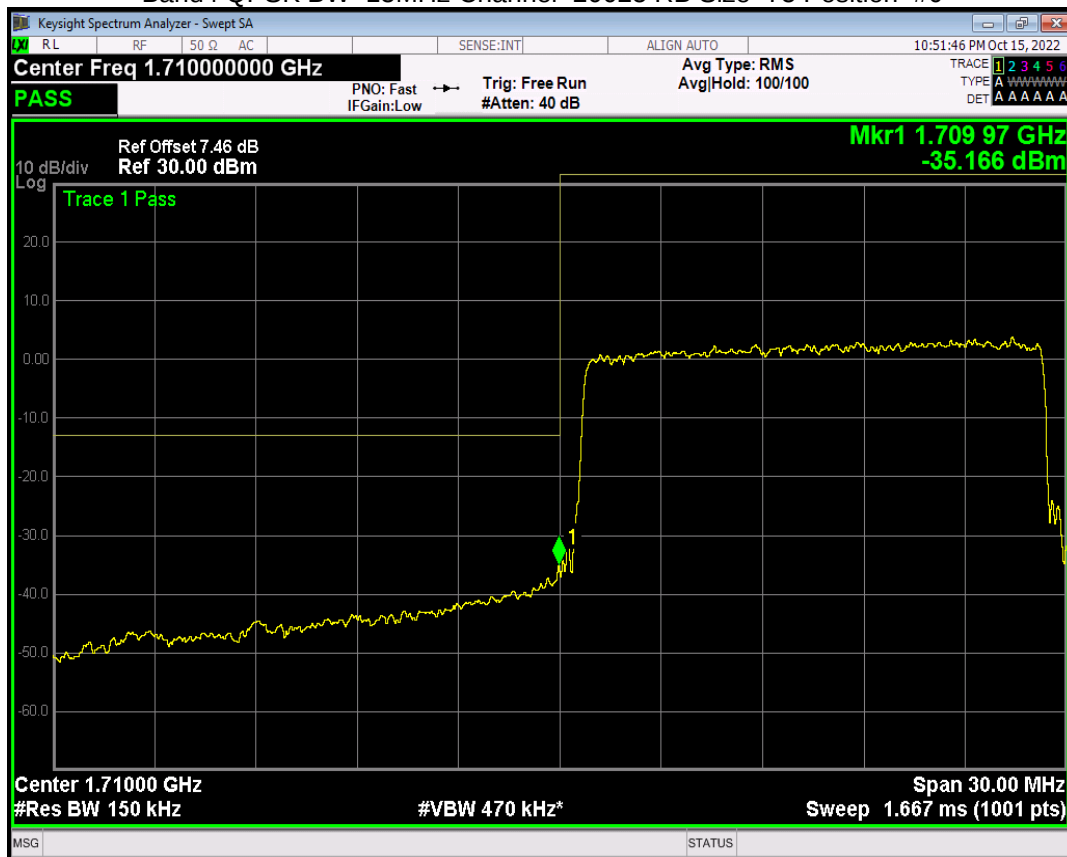
Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0



Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0



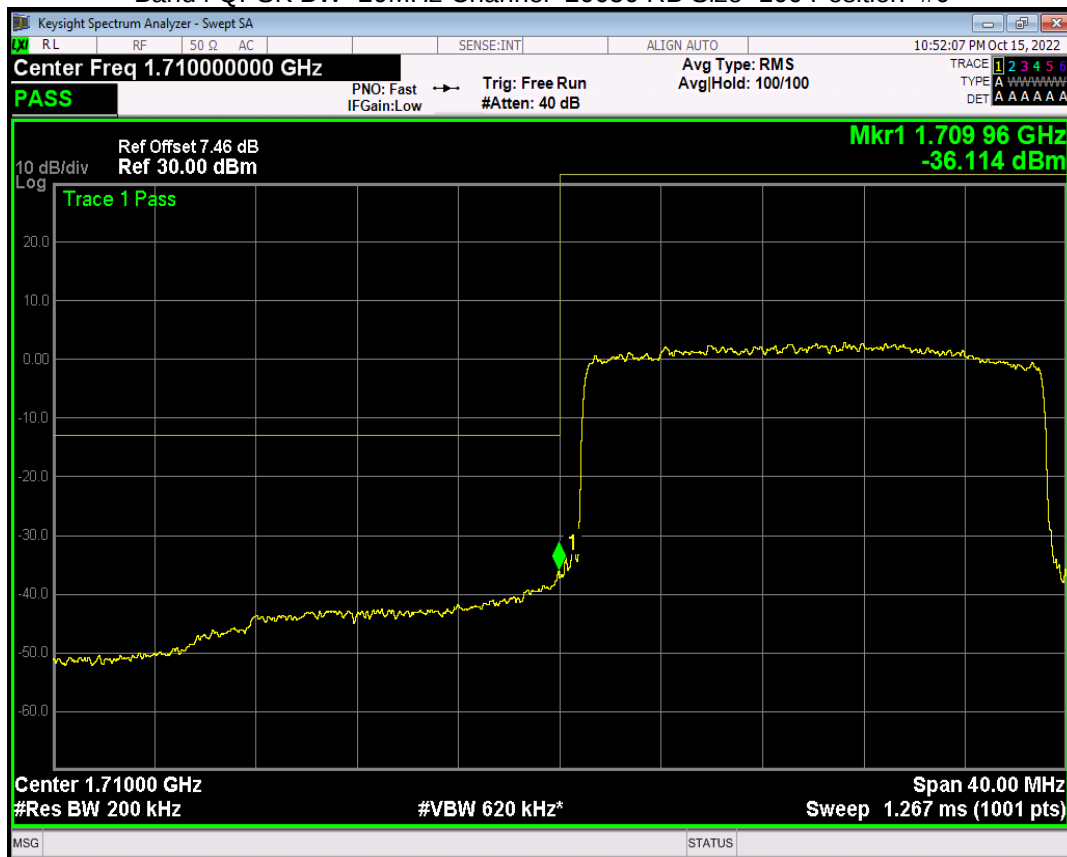
Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0



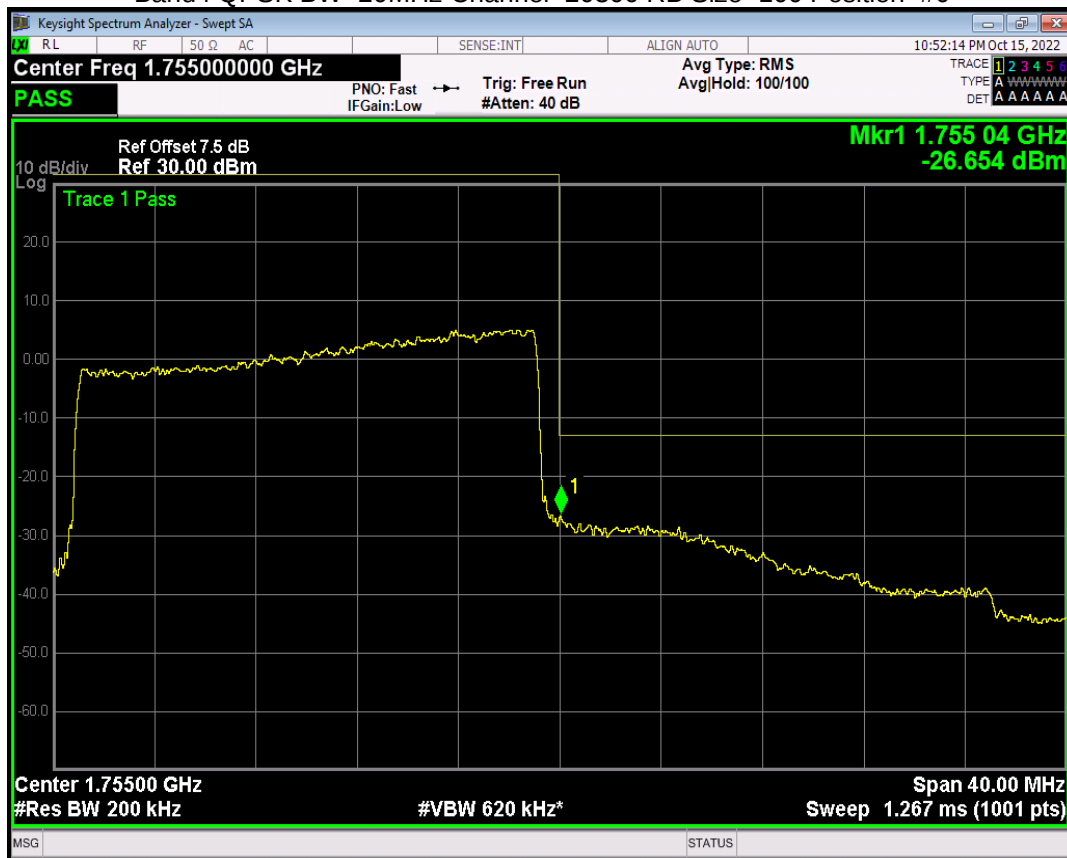
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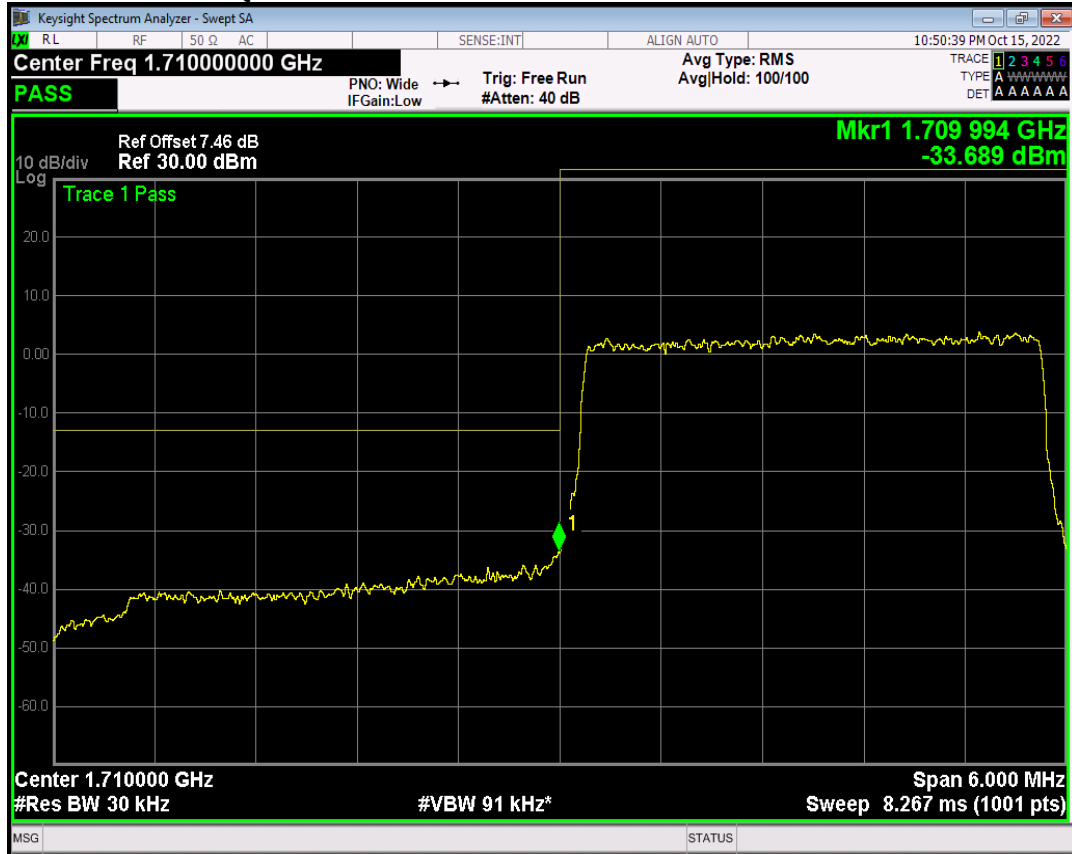
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Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0



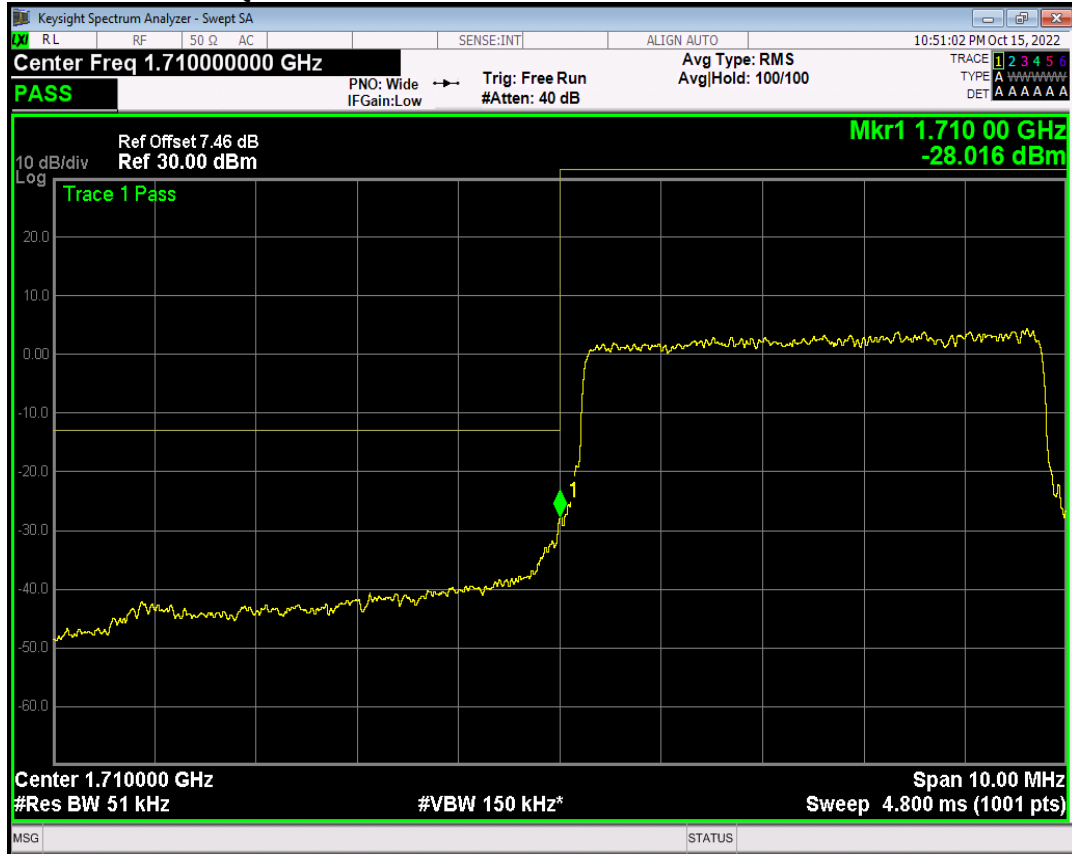
Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0



Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0



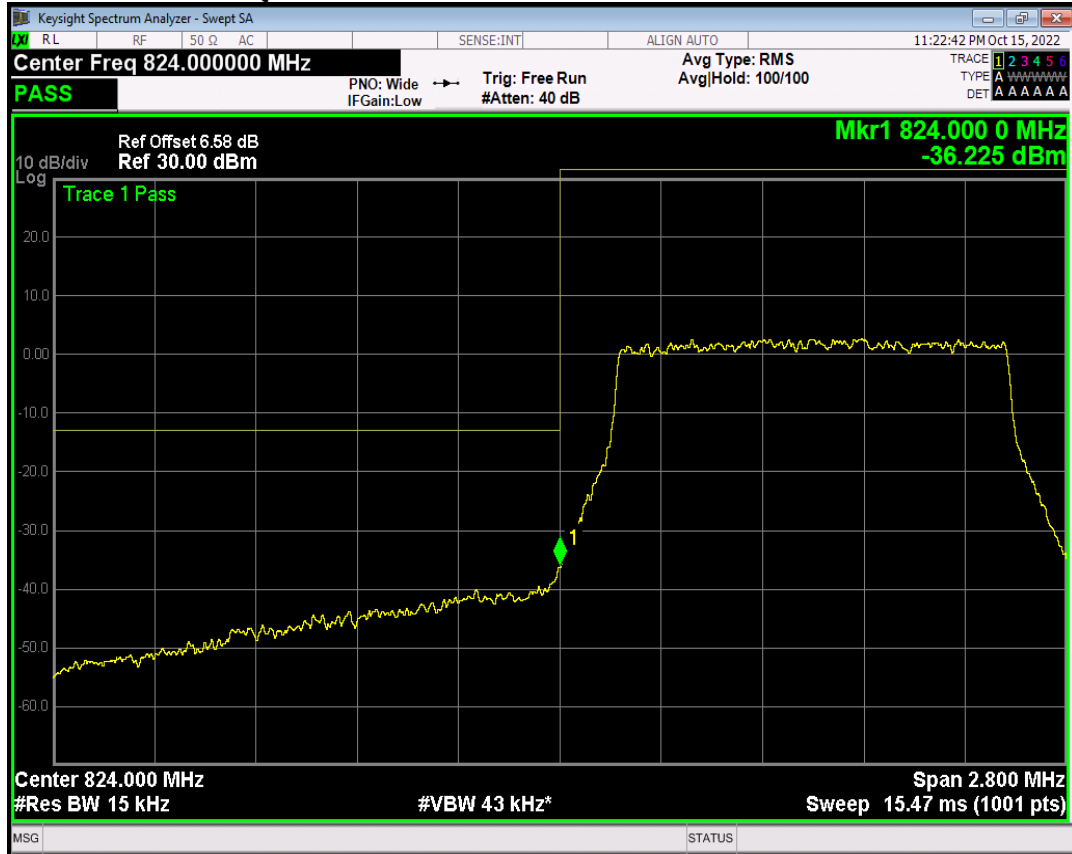
Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0



Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0



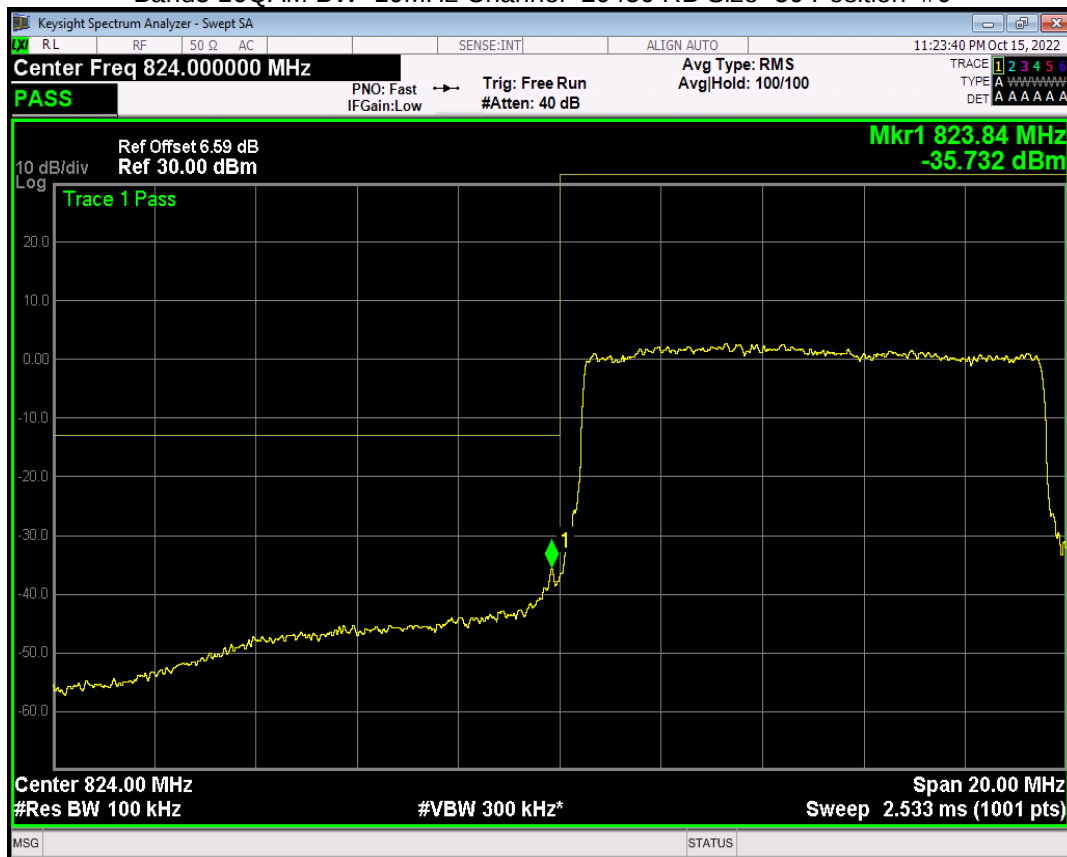
Band5 16QAM BW=1.4MHz Channel=20407 RB Size=6 Position=#0



Band5 16QAM BW=1.4MHz Channel=20643 RB Size=6 Position=#0



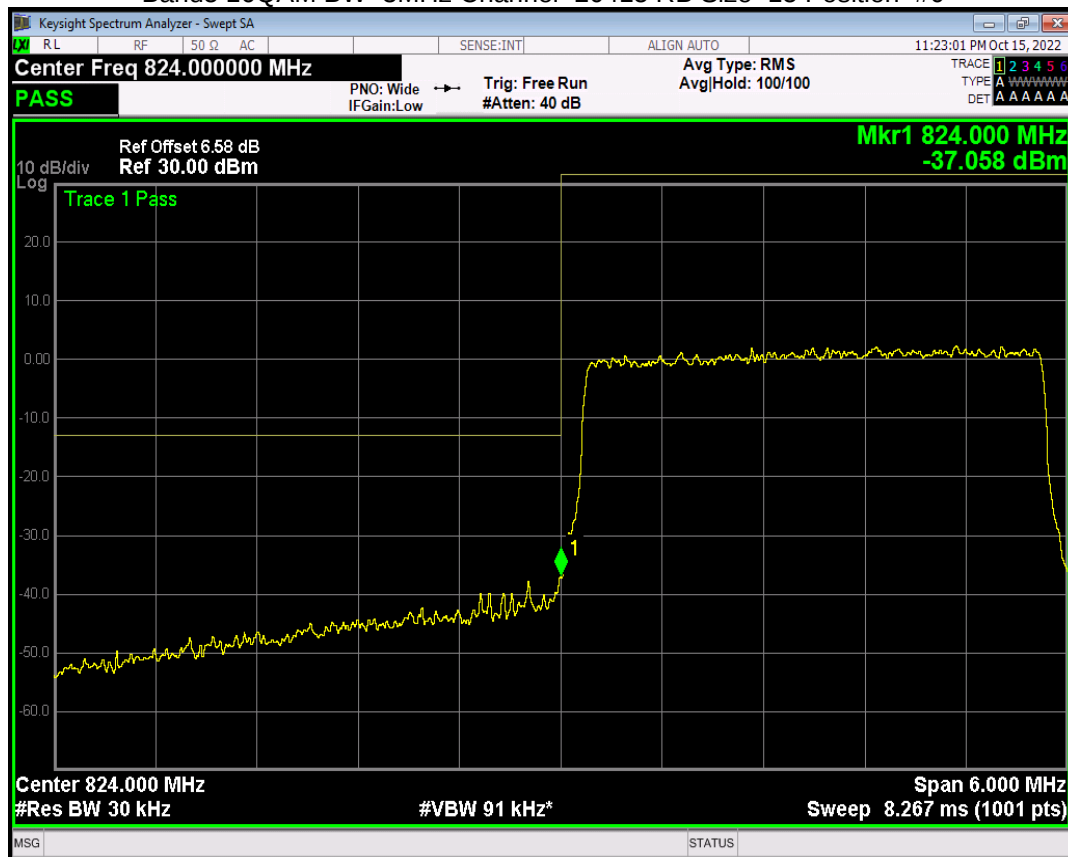
Band5 16QAM BW=10MHz Channel=20450 RB Size=50 Position=#0



Band5 16QAM BW=10MHz Channel=20600 RB Size=50 Position=#0



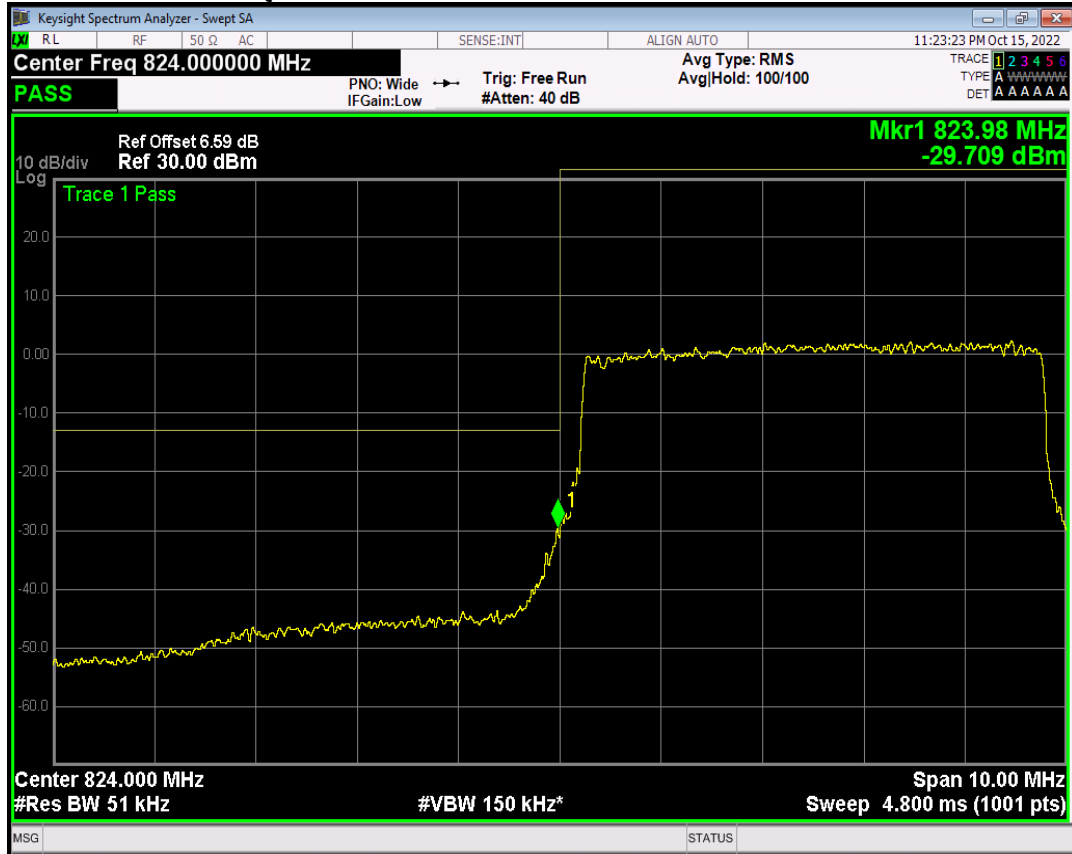
Band5 16QAM BW=3MHz Channel=20415 RB Size=15 Position=#0



Band5 16QAM BW=3MHz Channel=20635 RB Size=15 Position=#0



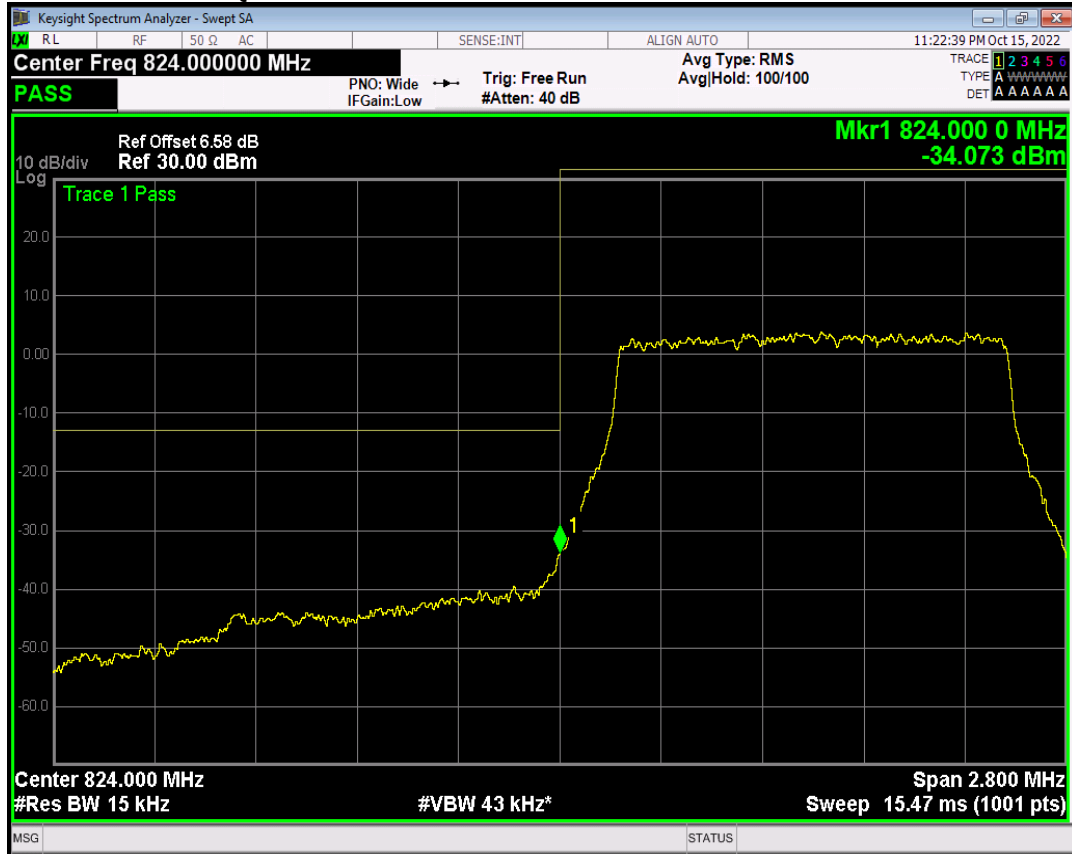
Band5 16QAM BW=5MHz Channel=20425 RB Size=25 Position=#0



Band5 16QAM BW=5MHz Channel=20625 RB Size=25 Position=#0



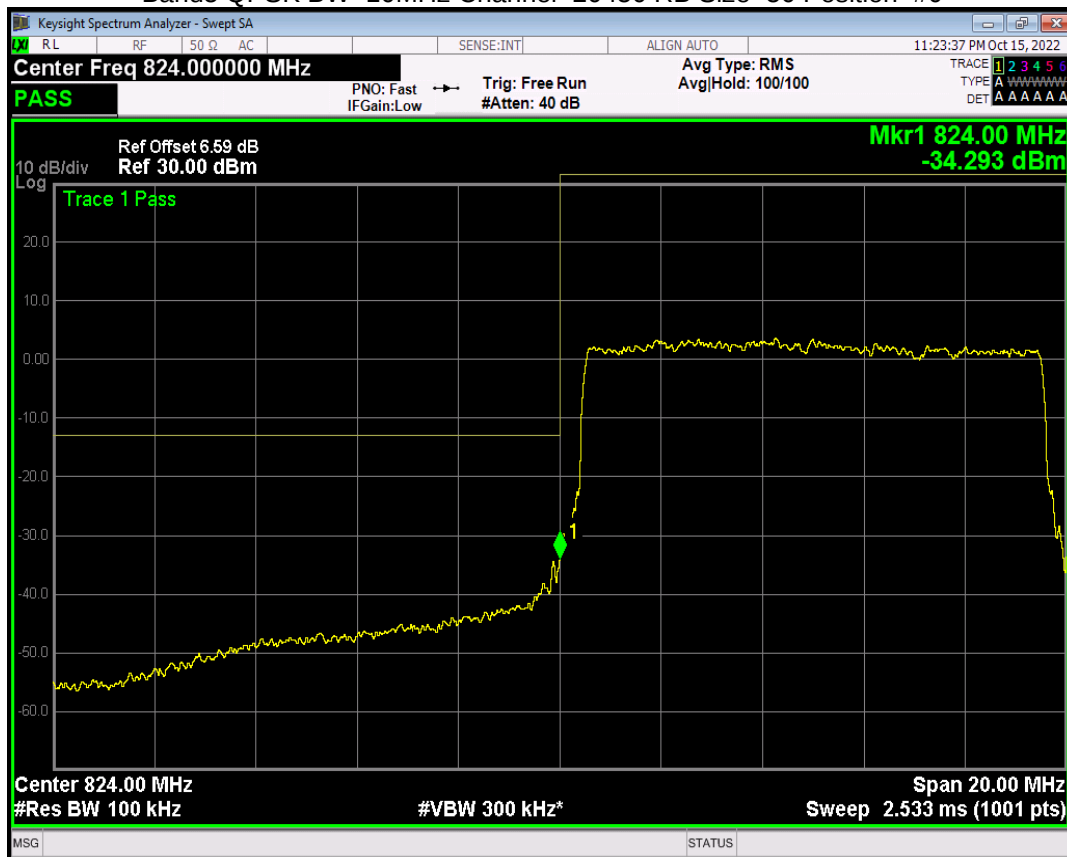
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=6 Position=#0



Band5 QPSK BW=1.4MHz Channel=20643 RB Size=6 Position=#0



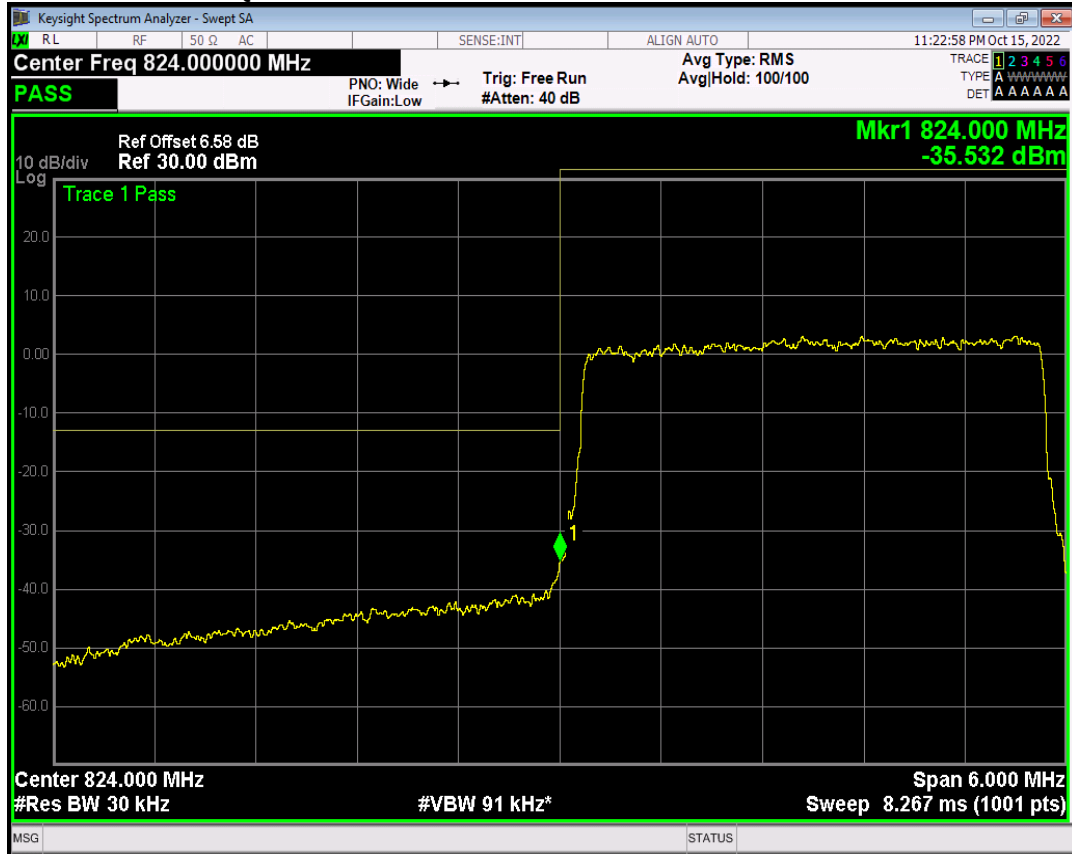
Band5 QPSK BW=10MHz Channel=20450 RB Size=50 Position=#0



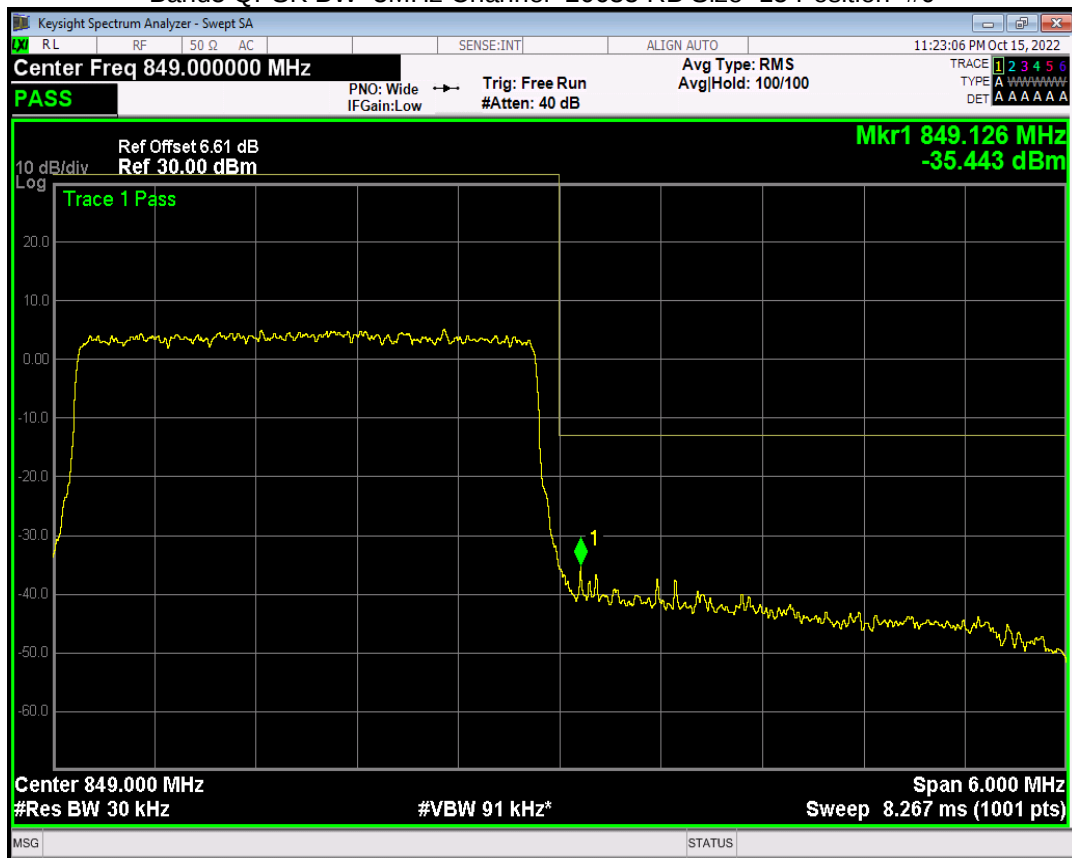
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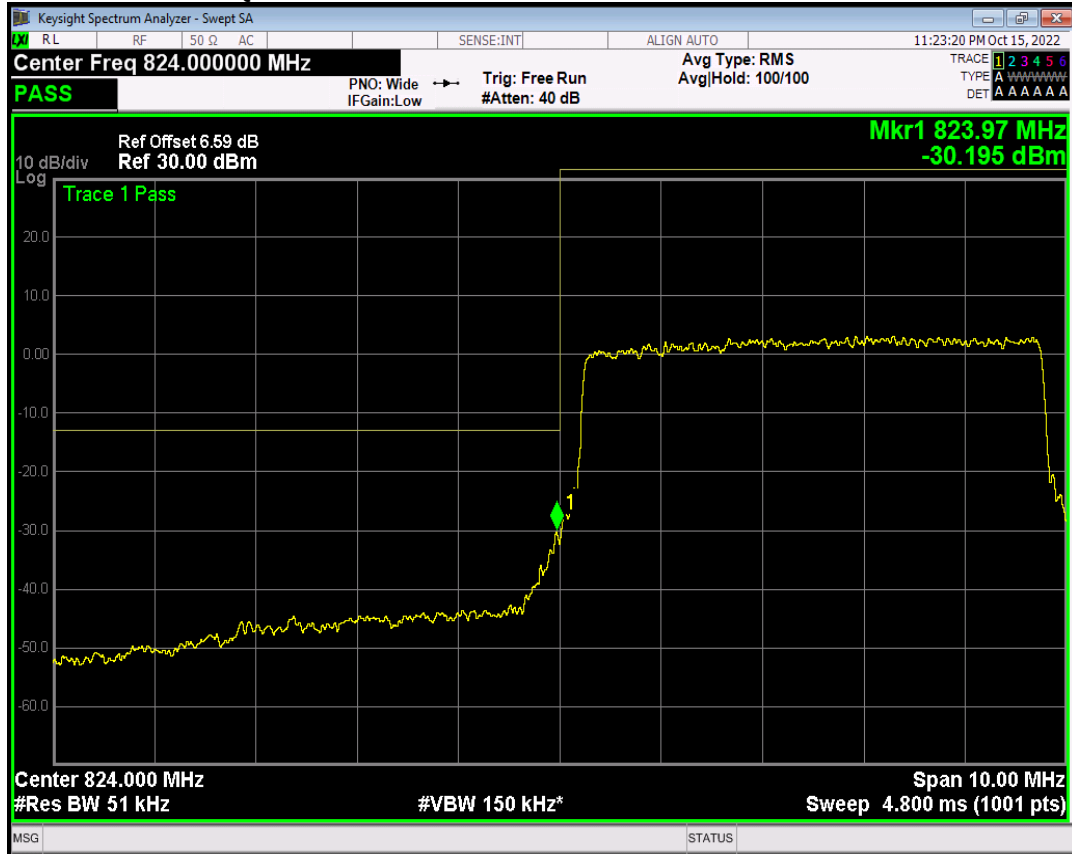
Band5 QPSK BW=3MHz Channel=20415 RB Size=15 Position=#0



Band5 QPSK BW=3MHz Channel=20635 RB Size=15 Position=#0



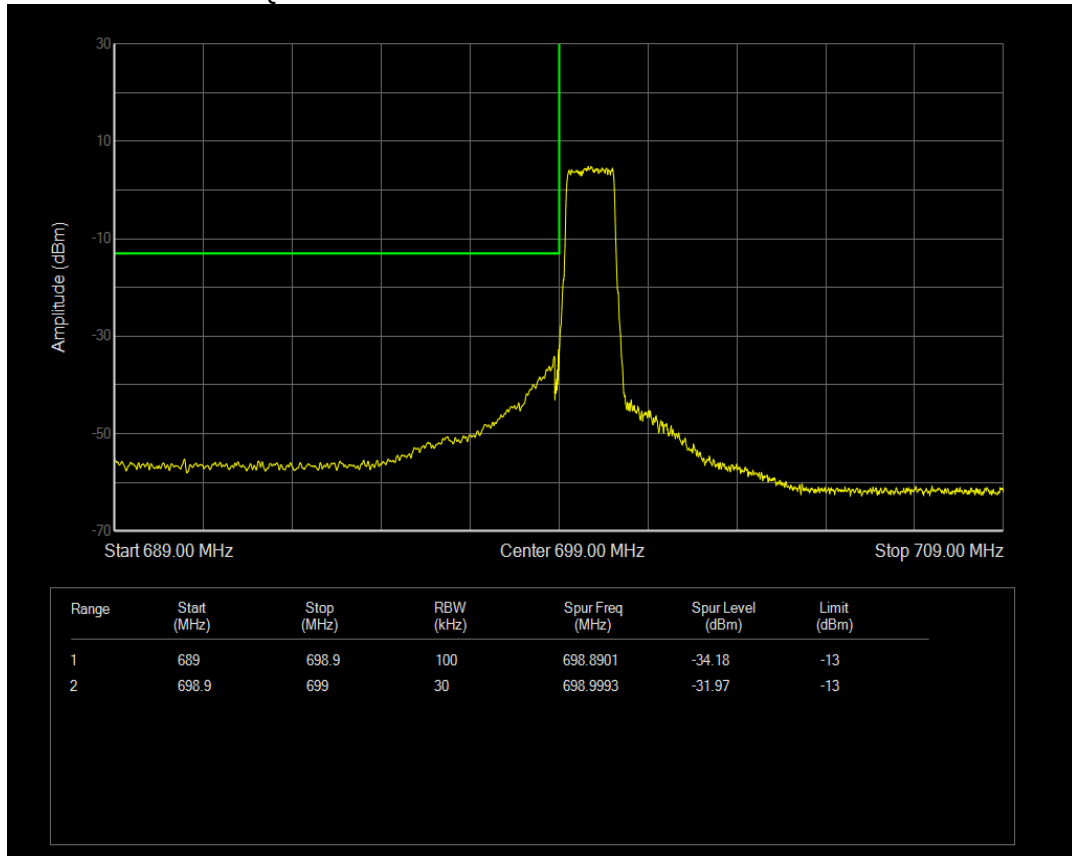
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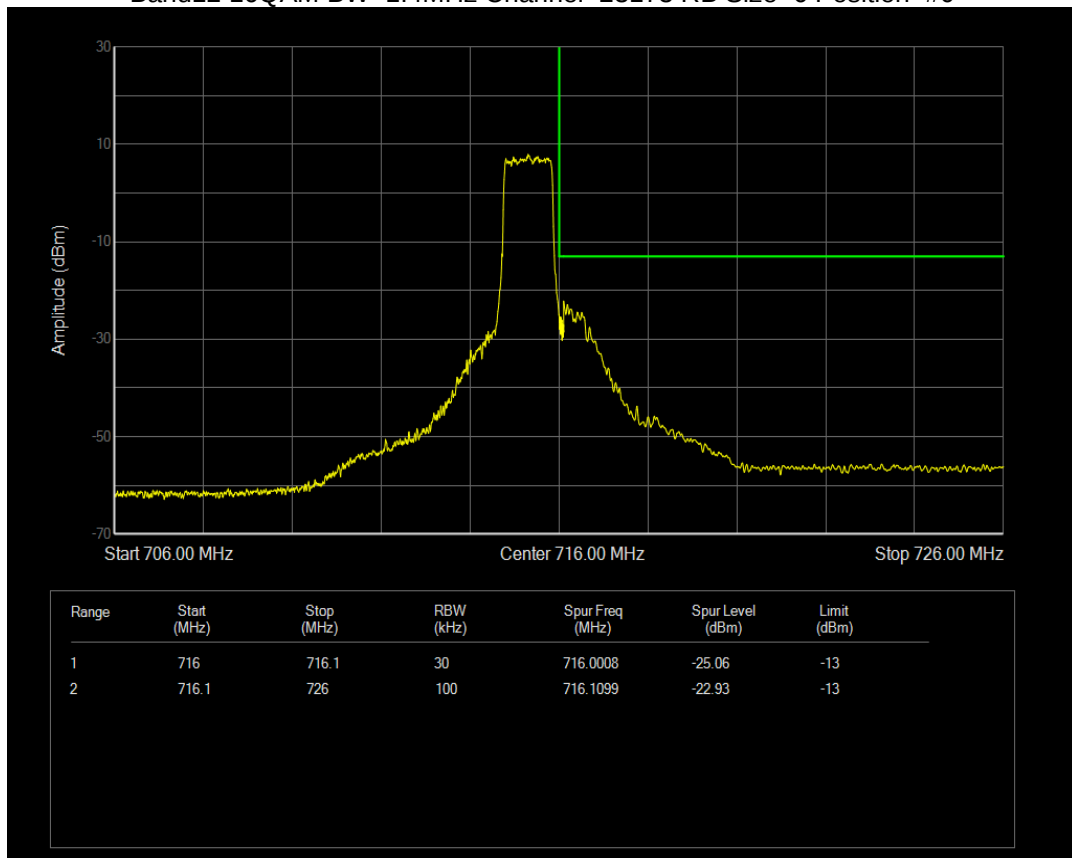
Band5 QPSK BW=5MHz Channel=20625 RB Size=25 Position=#0



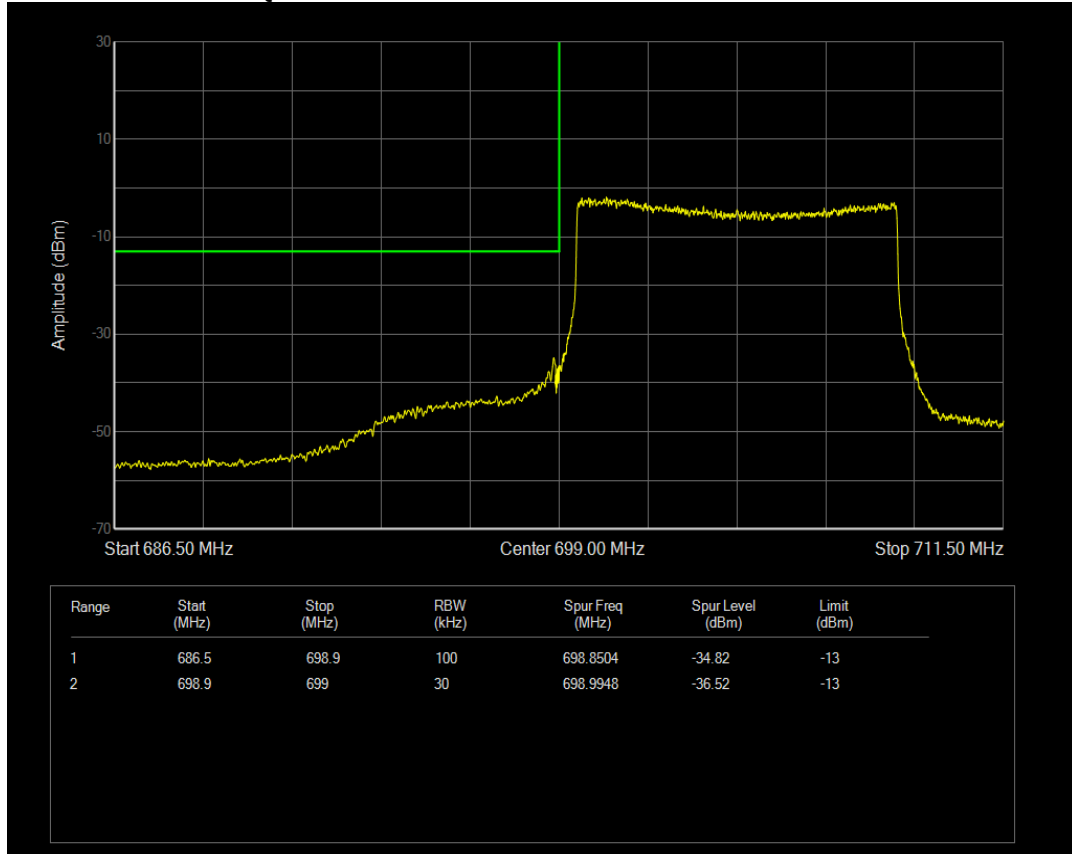
Band12 16QAM BW=1.4MHz Channel=23017 RB Size=6 Position=#0



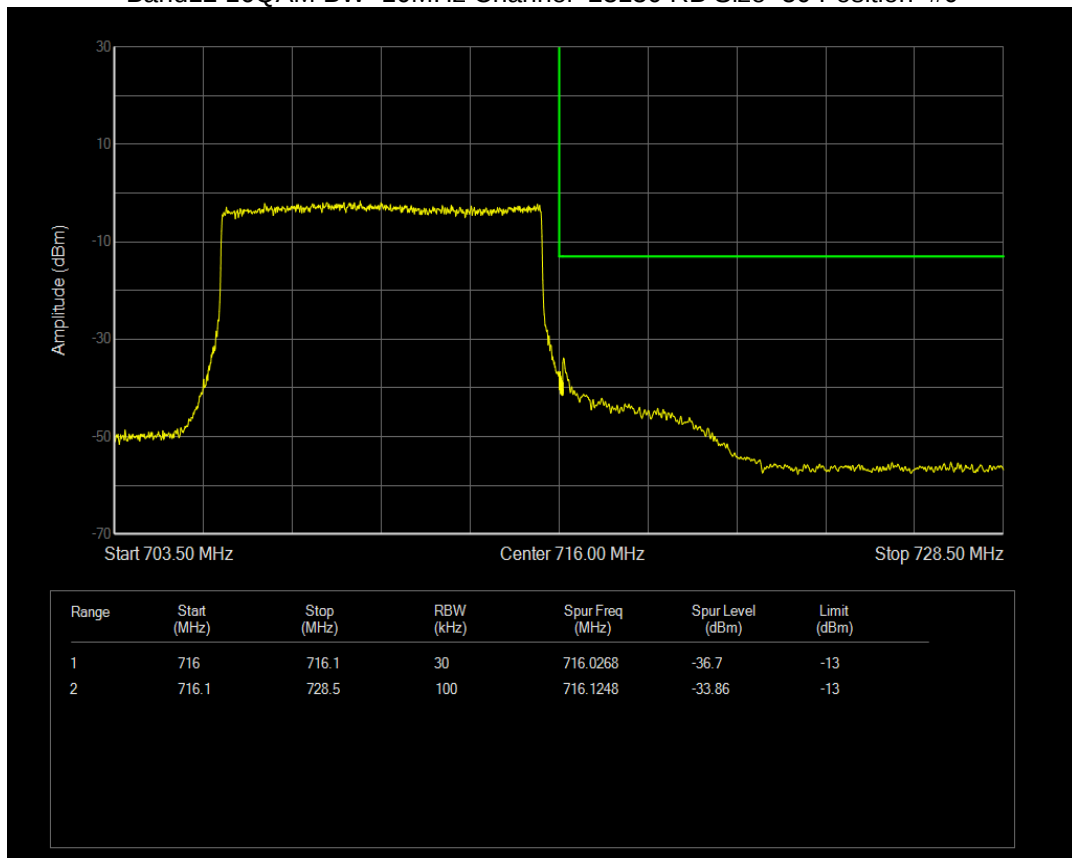
Band12 16QAM BW=1.4MHz Channel=23173 RB Size=6 Position=#0



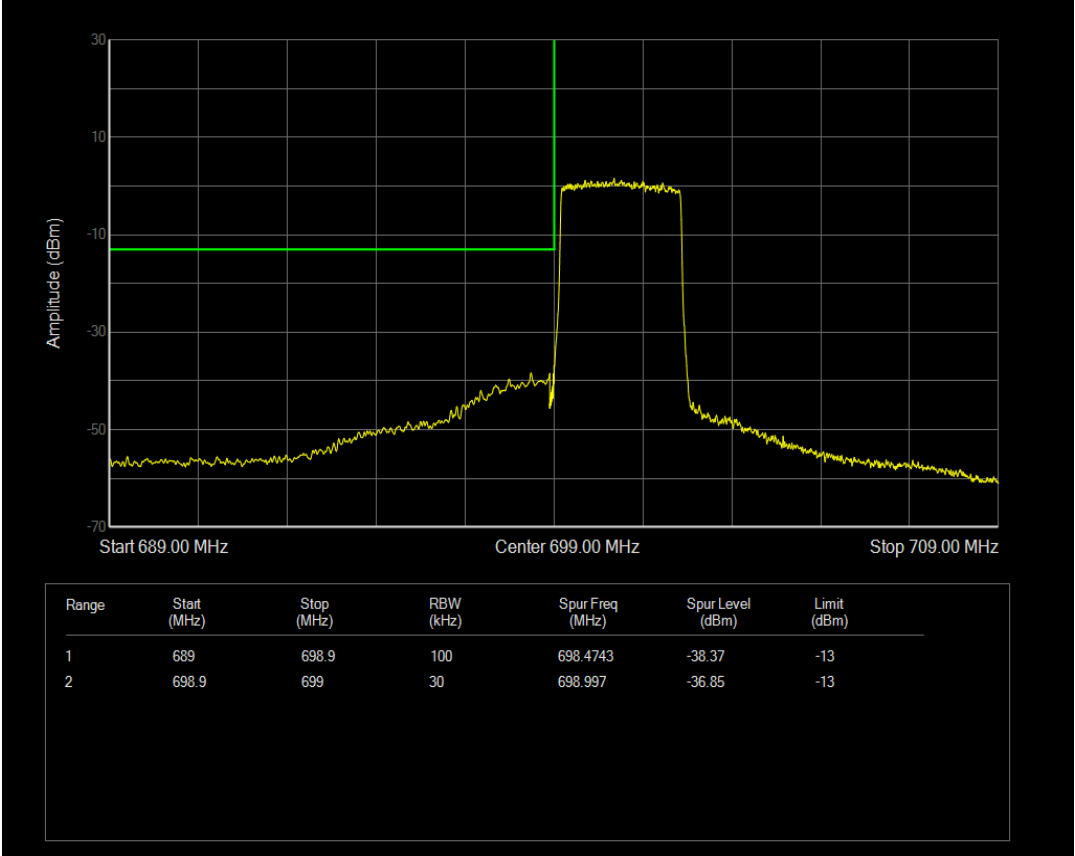
Band12 16QAM BW=10MHz Channel=23060 RB Size=50 Position=#0



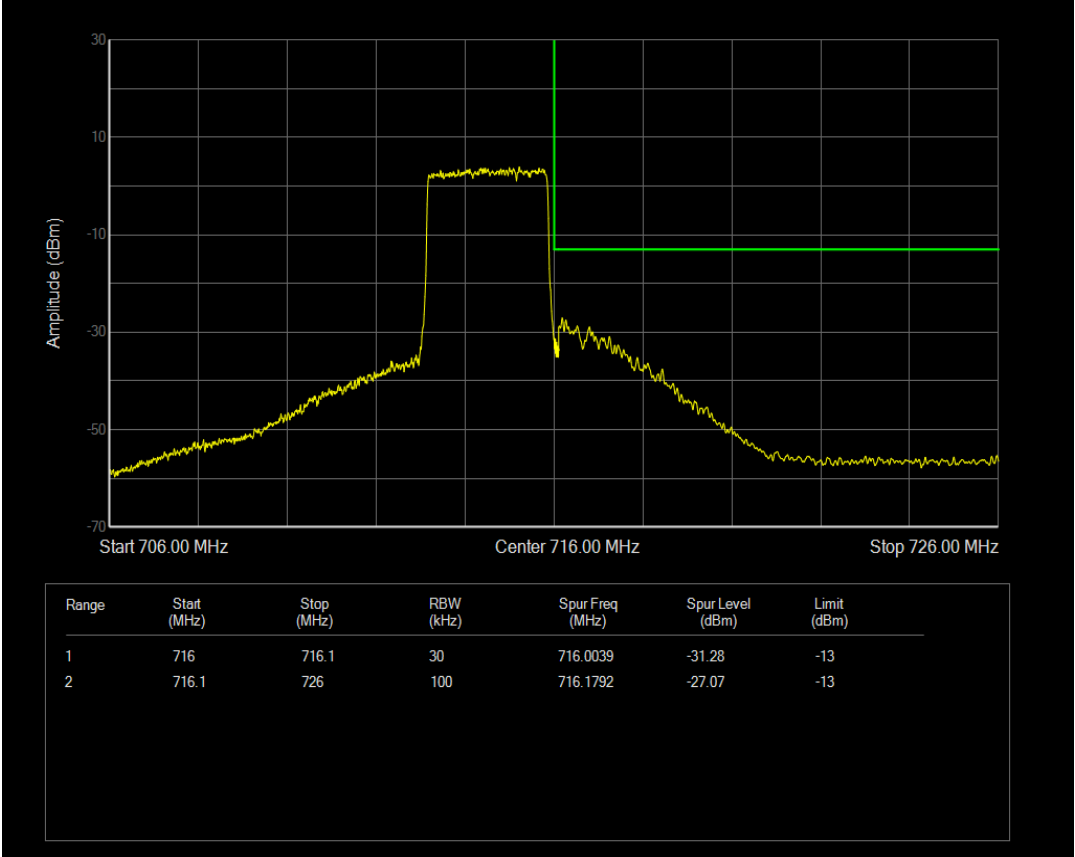
Band12 16QAM BW=10MHz Channel=23130 RB Size=50 Position=#0



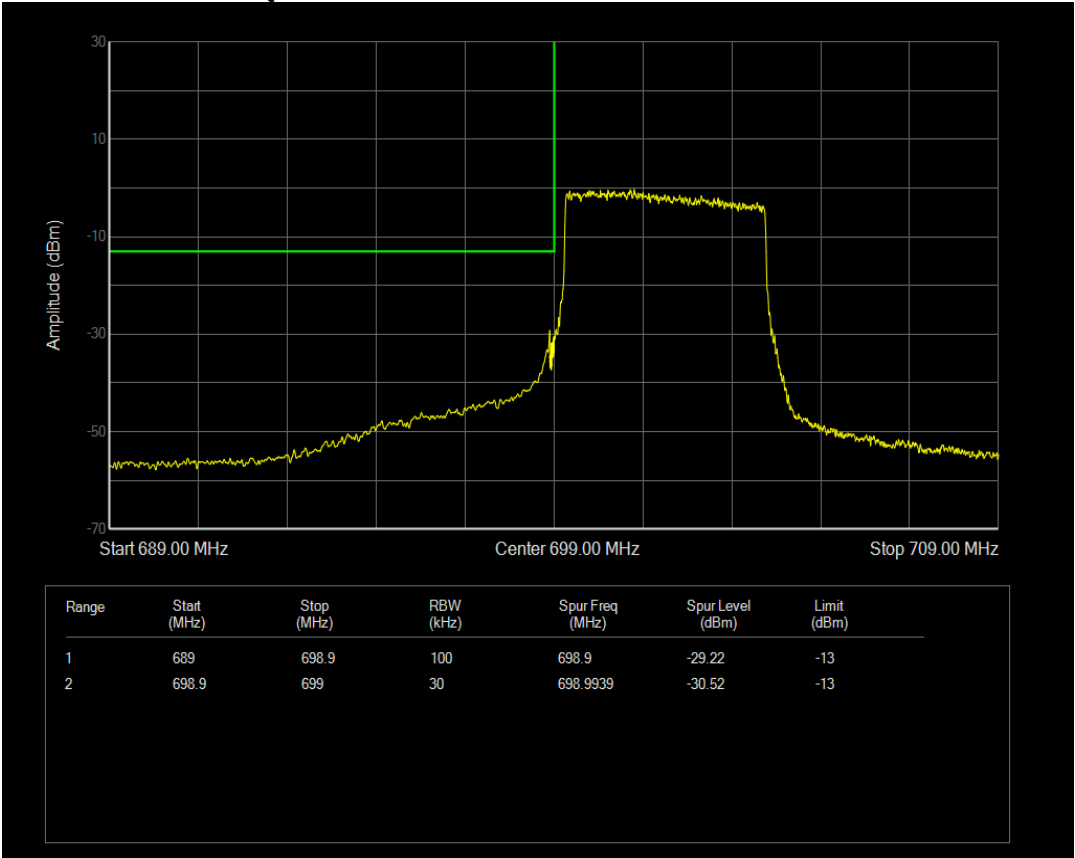
Band12 16QAM BW=3MHz Channel=23025 RB Size=15 Position=#0



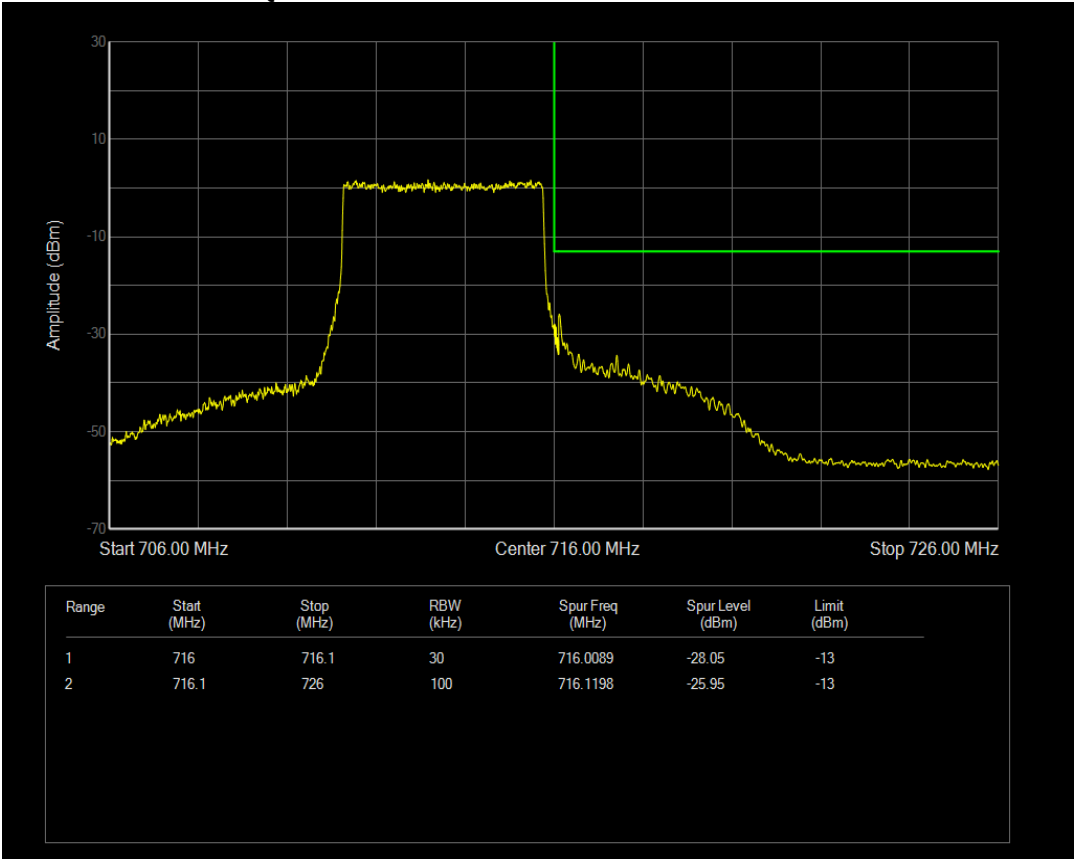
Band12 16QAM BW=3MHz Channel=23165 RB Size=15 Position=#0



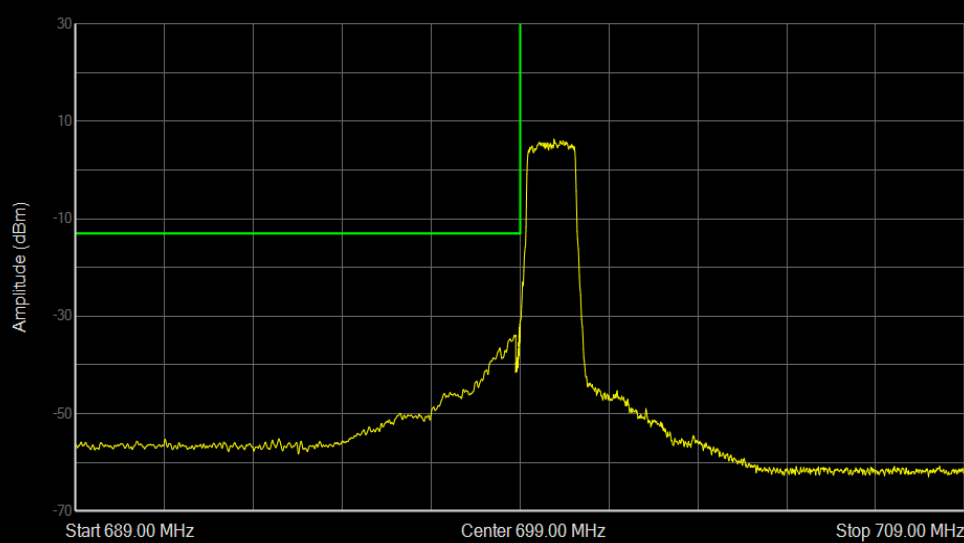
Band12 16QAM BW=5MHz Channel=23035 RB Size=25 Position=#0



Band12 16QAM BW=5MHz Channel=23155 RB Size=25 Position=#0

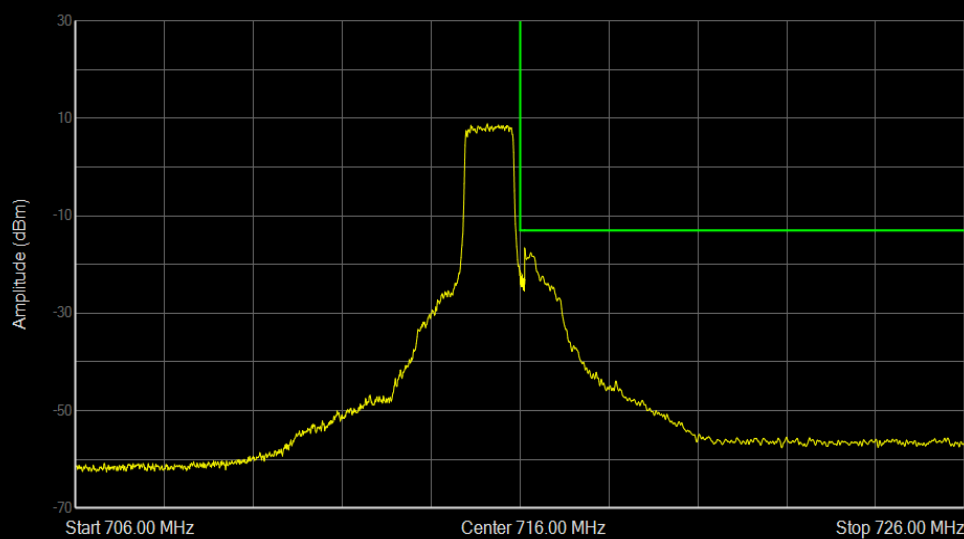


Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0



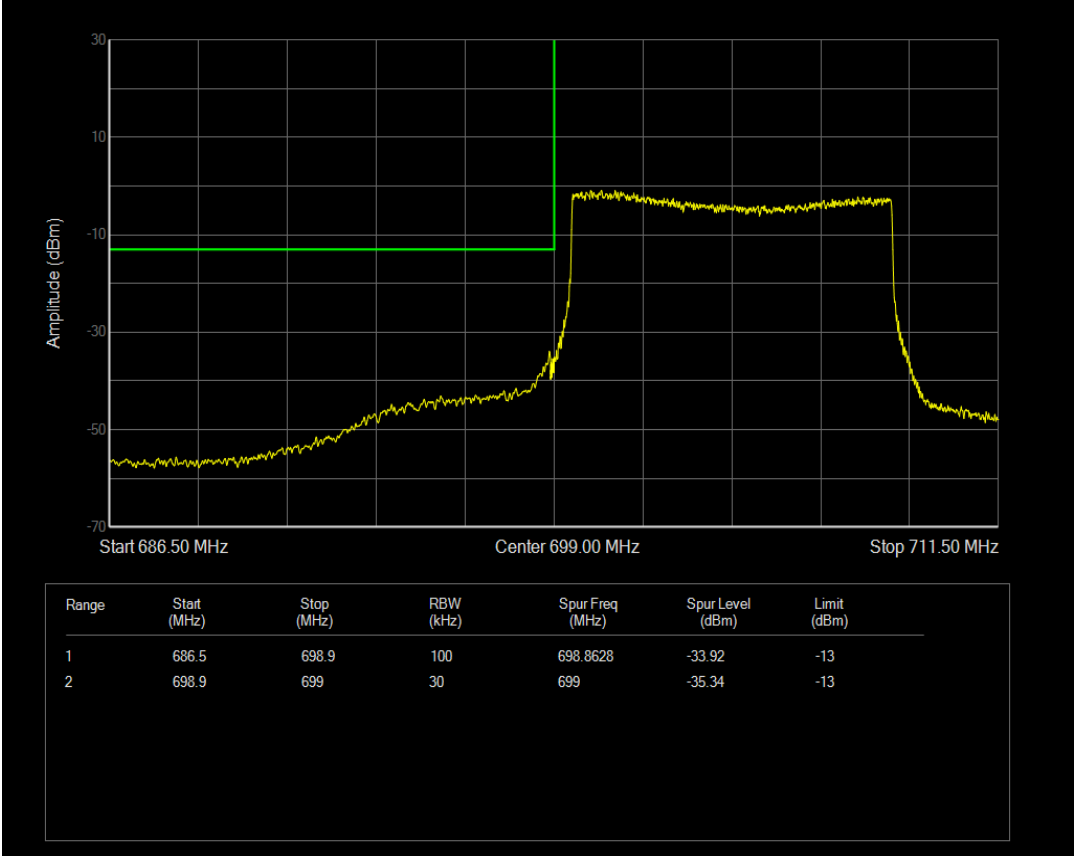
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-33.86	-13
2	698.9	699	30	698.9984	-31.04	-13

Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0

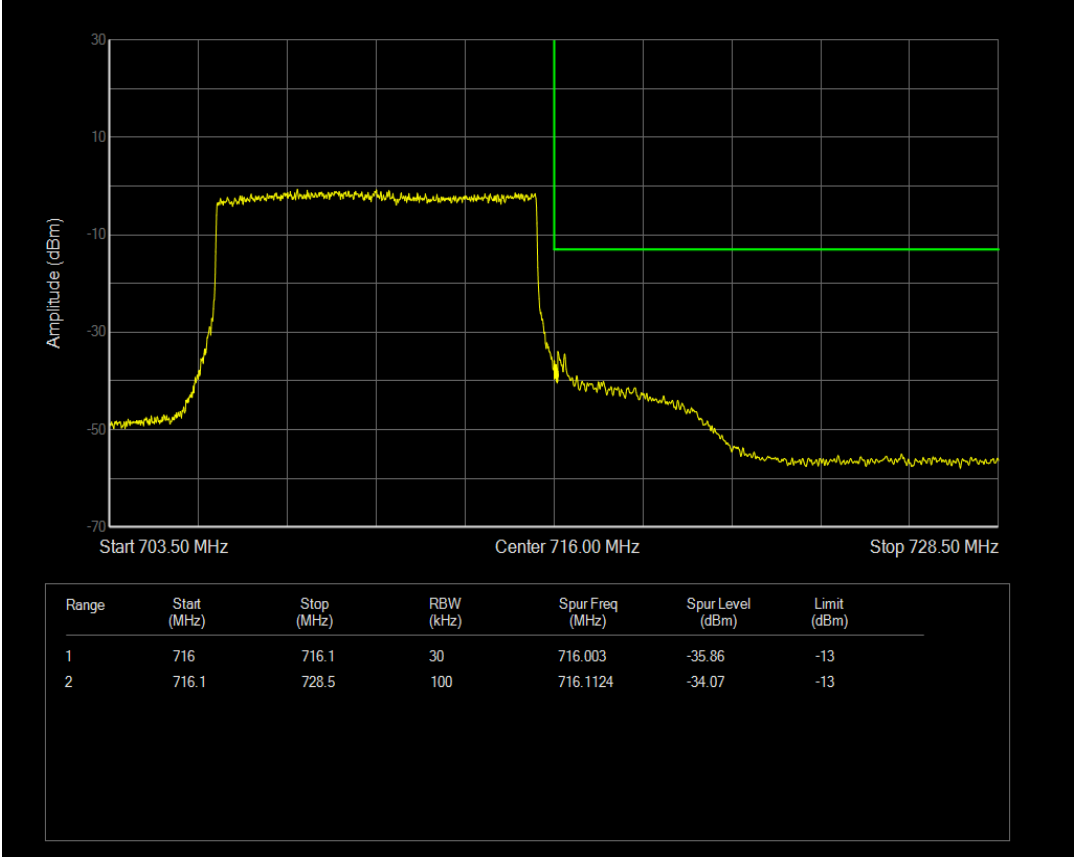


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0001	-21.34	-13
2	716.1	726	100	716.1099	-17.08	-13

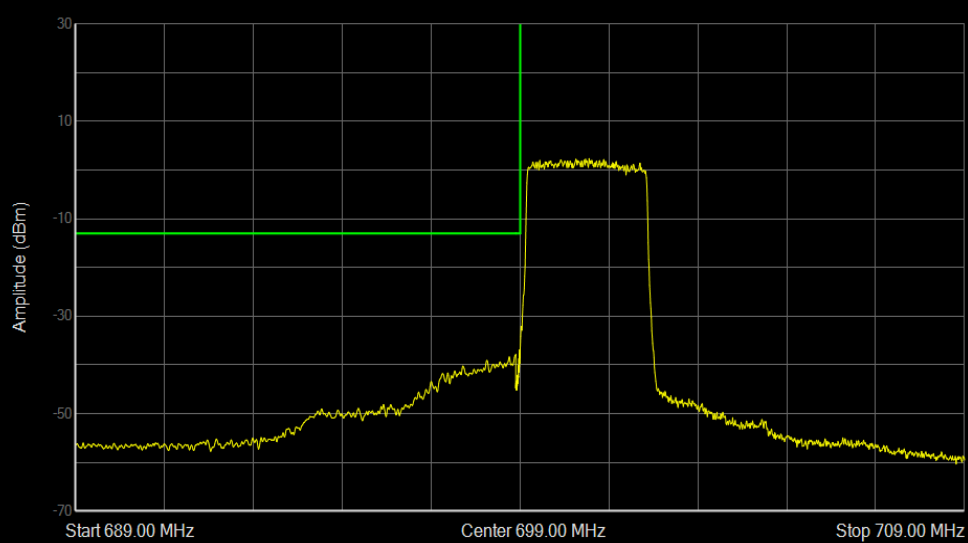
Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0



Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0

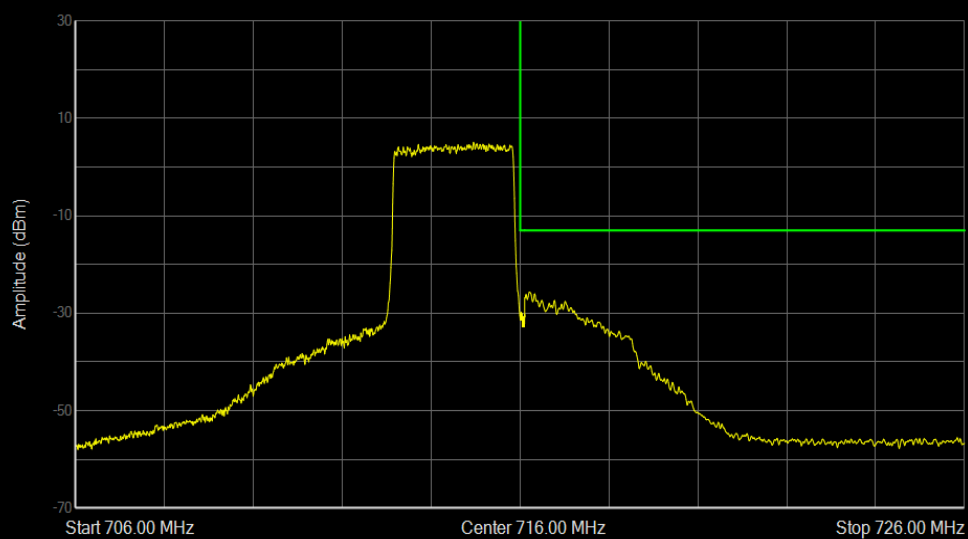


Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0



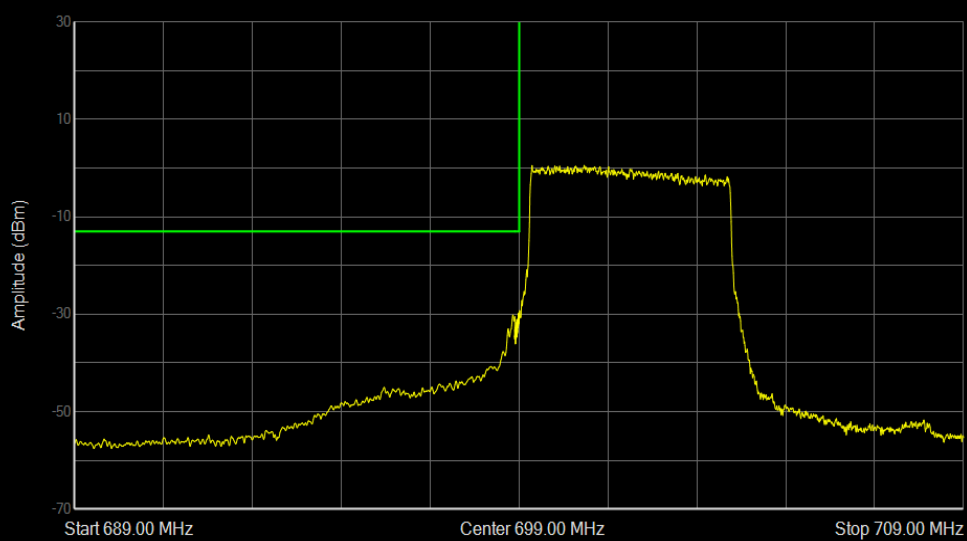
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-37.83	-13
2	698.9	699	30	698.9916	-36.91	-13

Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0



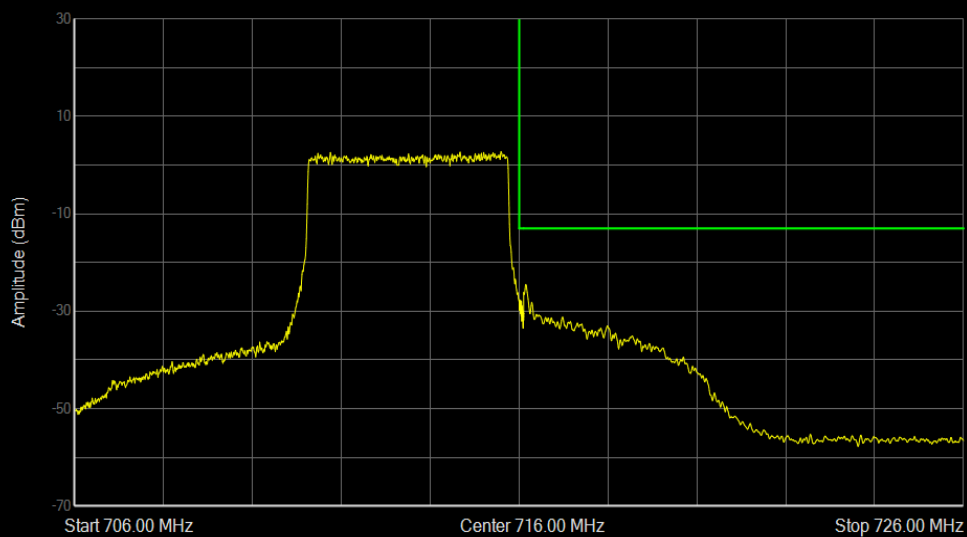
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0241	-29.82	-13
2	716.1	726	100	716.2089	-25.65	-13

Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0



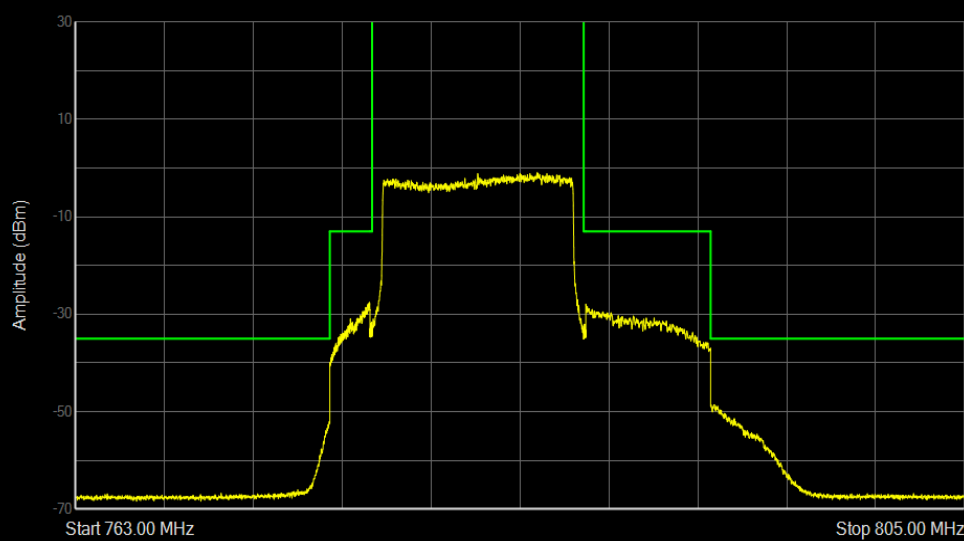
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.8604	-30.17	-13
2	698.9	699	30	698.9985	-29.78	-13

Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0



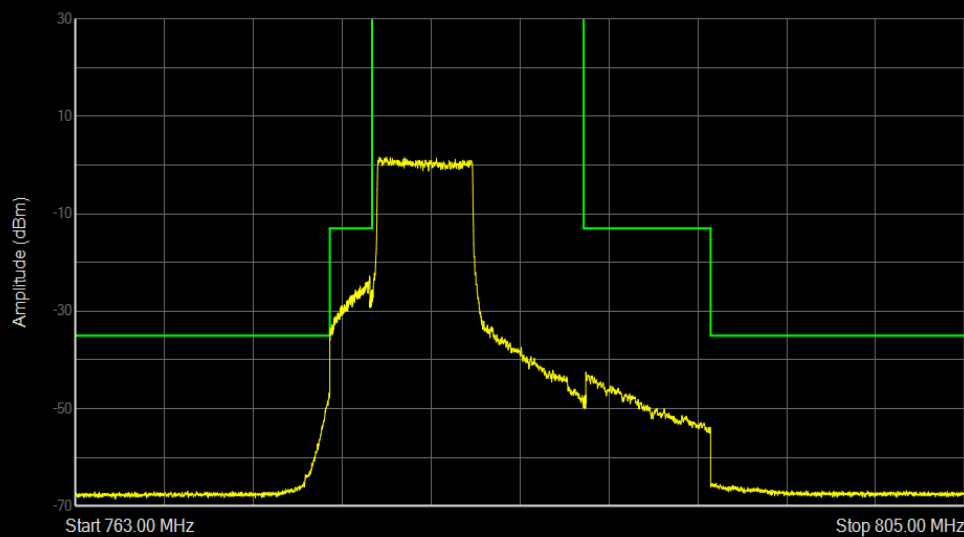
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0078	-27.69	-13
2	716.1	726	100	716.1495	-24.51	-13

Band13 16QAM BW=10MHz Channel=23230 RB Size=50 Position=#0



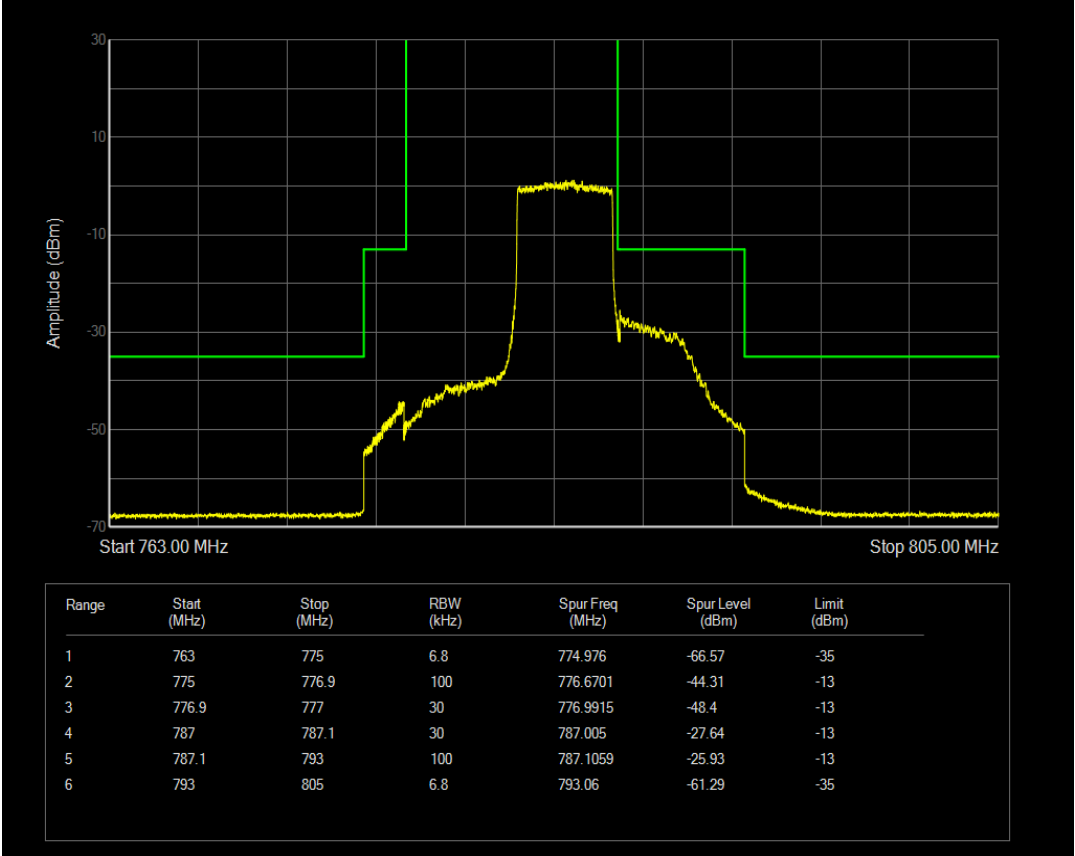
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.8	774.976	-52.03	-35
2	775	776.9	100	776.8715	-27.61	-13
3	776.9	777	30	776.9658	-31.63	-13
4	787	787.1	30	787.0399	-32.11	-13
5	787.1	793	100	787.1059	-28.09	-13
6	793	805	6.8	793.18	-48.59	-35

Band13 16QAM BW=5MHz Channel=23205 RB Size=25 Position=#0

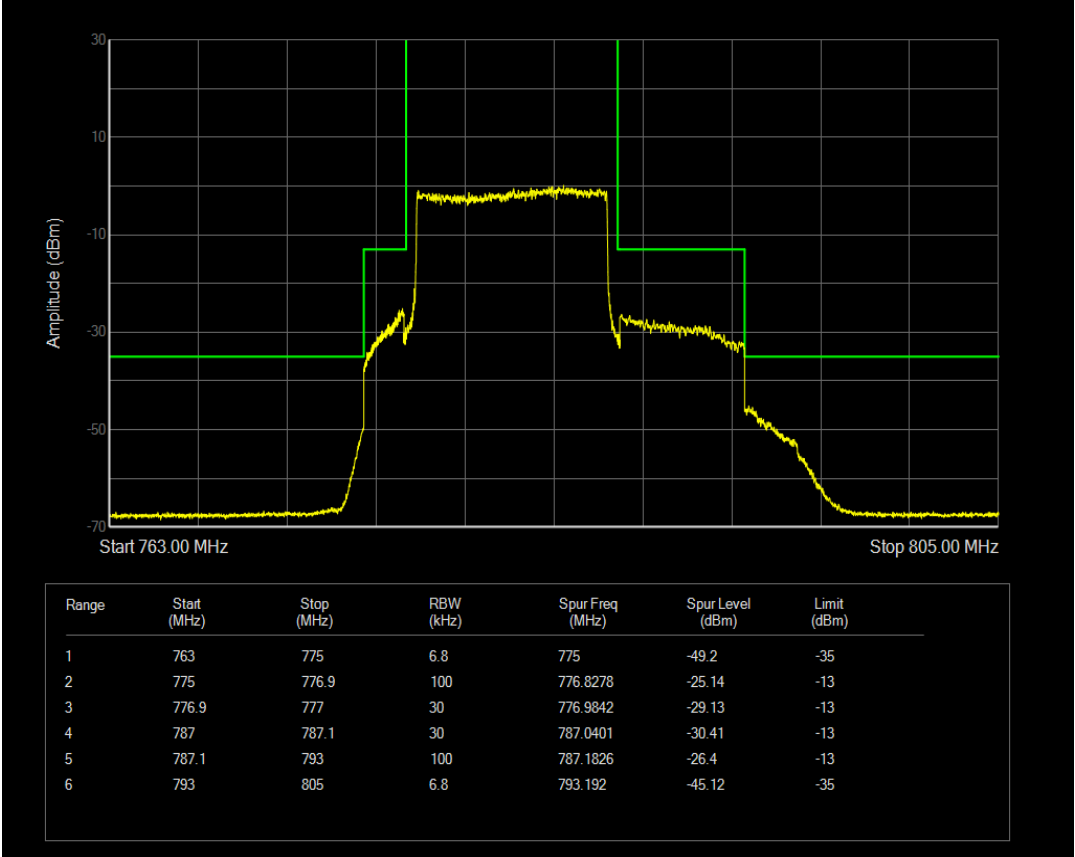


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.8	774.964	-46.81	-35
2	775	776.9	100	776.8867	-22.8	-13
3	776.9	777	30	776.9984	-25.64	-13
4	787	787.1	30	787.0885	-47.24	-13
5	787.1	793	100	787.1059	-42.85	-13
6	793	805	6.8	793.084	-65.35	-35

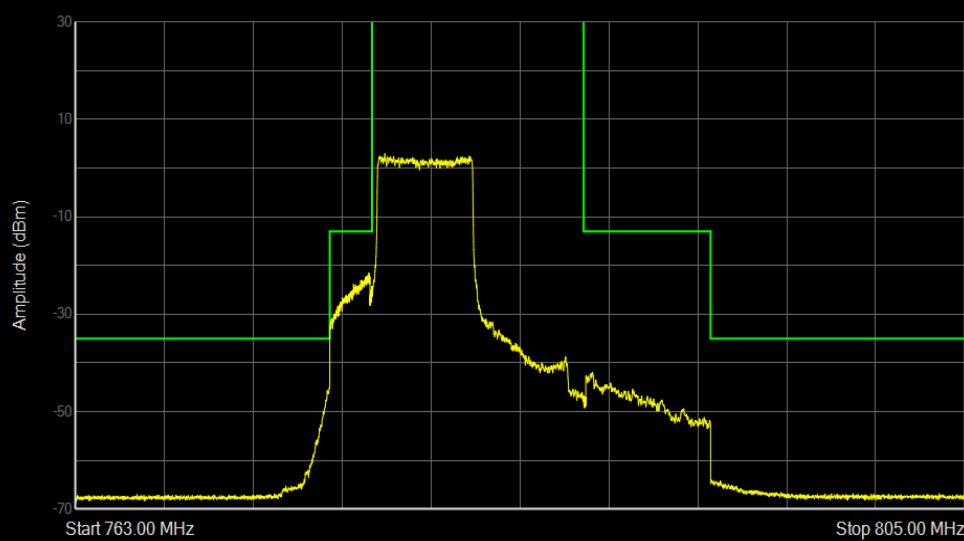
Band13 16QAM BW=5MHz Channel=23255 RB Size=25 Position=#0



Band13 QPSK BW=10MHz Channel=23230 RB Size=50 Position=#0

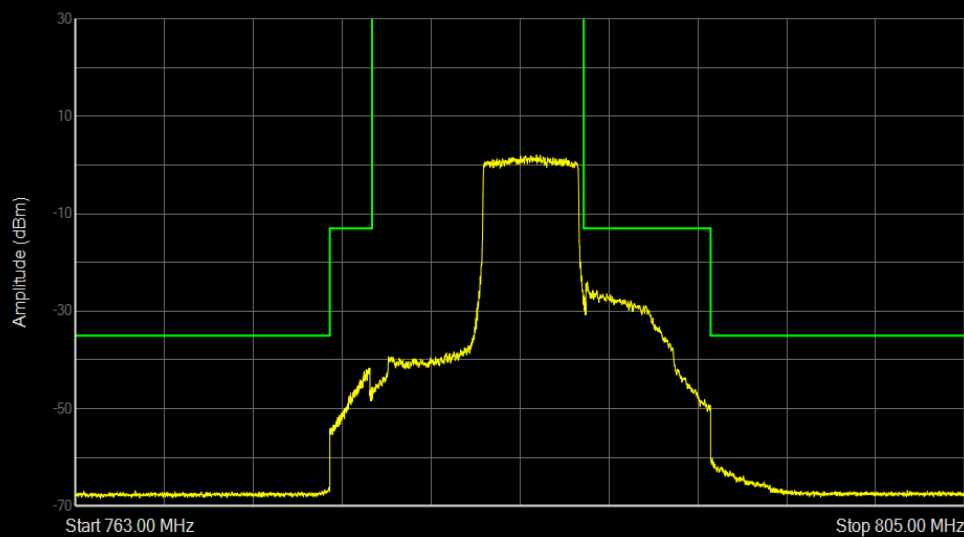


Band13 QPSK BW=5MHz Channel=23205 RB Size=25 Position=#0



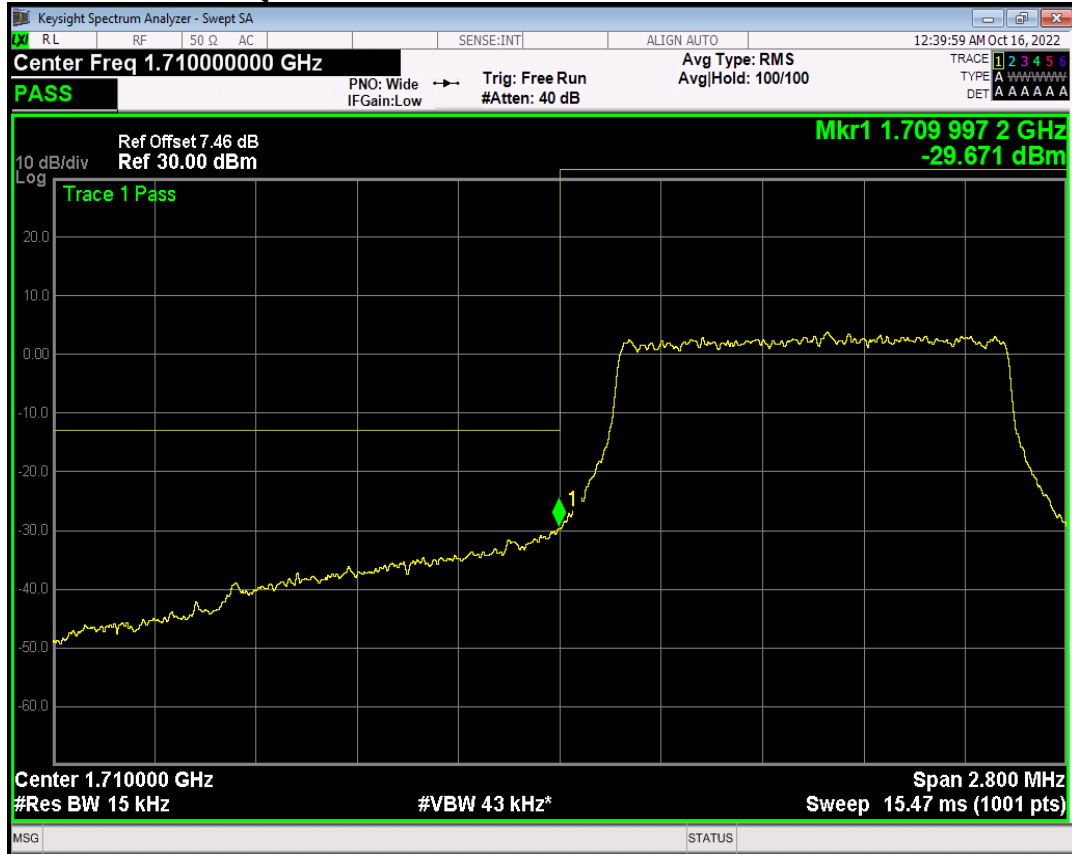
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.8	775	-44.32	-35
2	775	776.9	100	776.8506	-21.56	-13
3	776.9	777	30	776.9952	-24.29	-13
4	787	787.1	30	787.0048	-46.76	-13
5	787.1	793	100	787.4068	-41.93	-13
6	793	805	6.8	793.048	-64.07	-35

Band13 QPSK BW=5MHz Channel=23255 RB Size=25 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.8	774.952	-66.18	-35
2	775	776.9	100	776.8487	-41.72	-13
3	776.9	777	30	776.9925	-45.63	-13
4	787	787.1	30	787.0081	-26.93	-13
5	787.1	793	100	787.1708	-23.97	-13
6	793	805	6.8	793.072	-60.25	-35

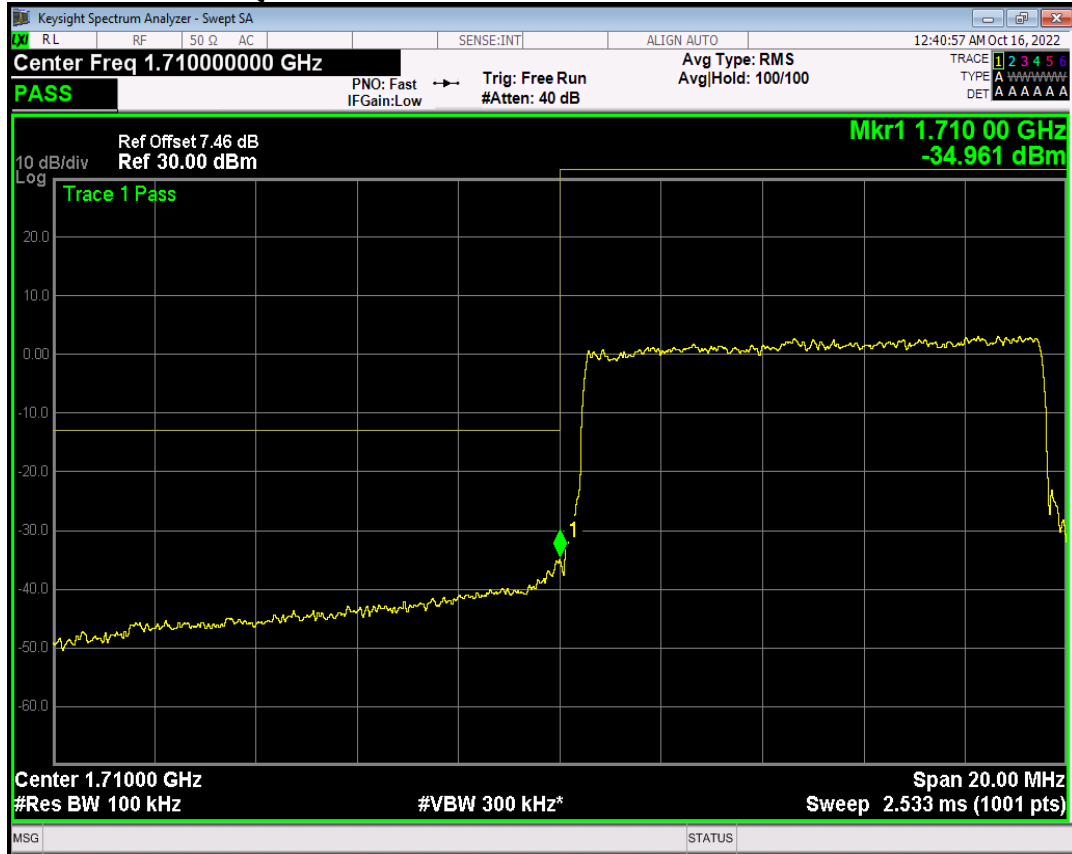
Band66 16QAM BW=1.4MHz Channel=131979 RB Size=6 Position=#0



Band66 16QAM BW=1.4MHz Channel=132665 RB Size=6 Position=#0



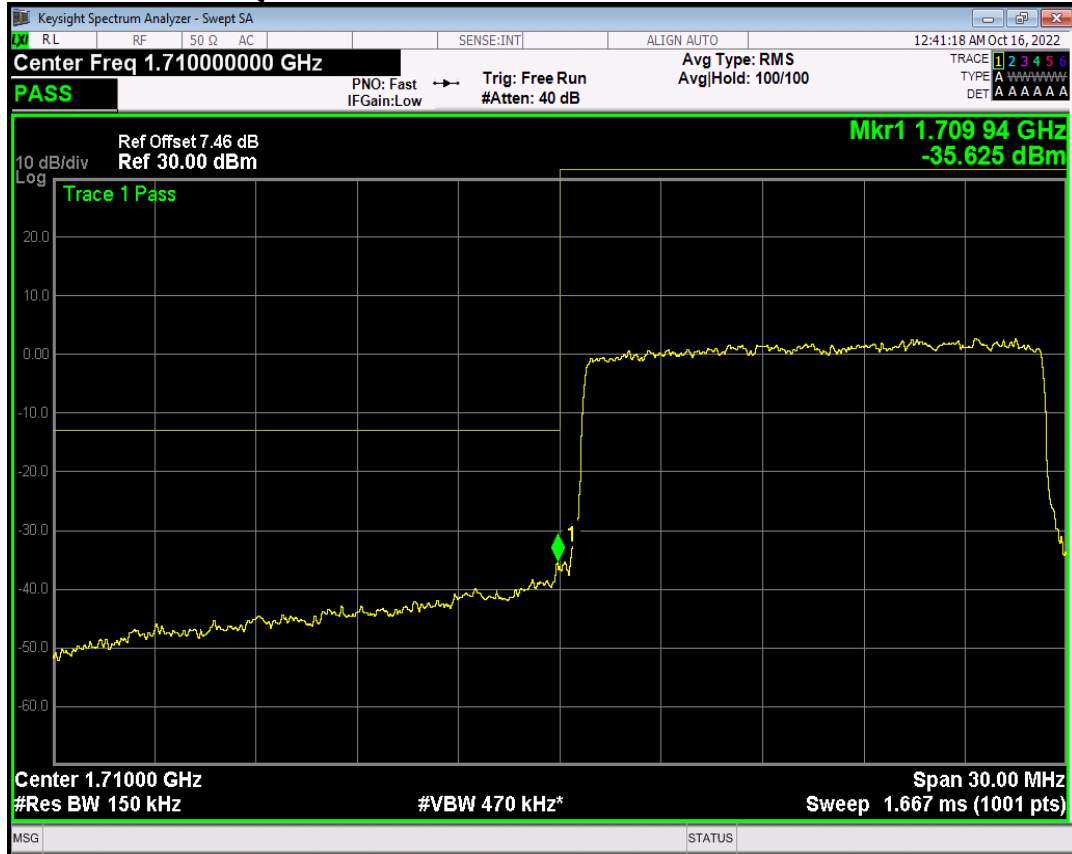
Band66 16QAM BW=10MHz Channel=132022 RB Size=50 Position=#0



Band66 16QAM BW=10MHz Channel=132622 RB Size=50 Position=#0



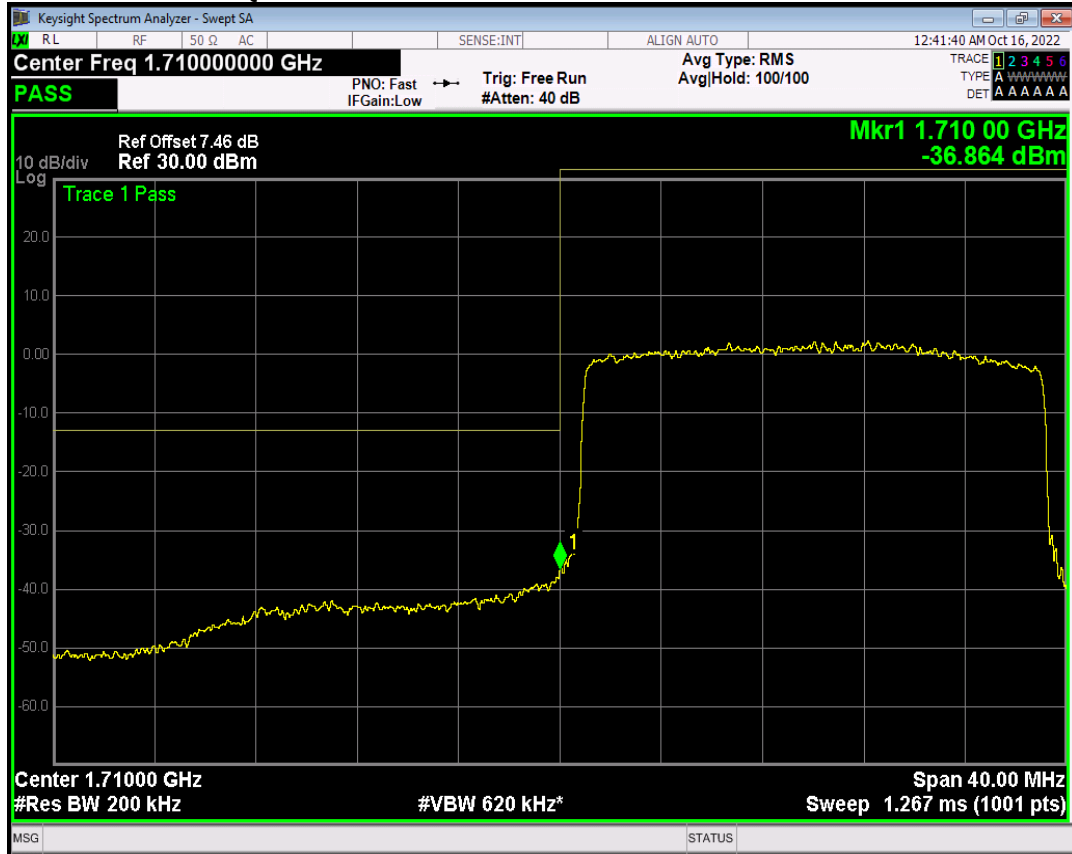
Band66 16QAM BW=15MHz Channel=132047 RB Size=75 Position=#0



Band66 16QAM BW=15MHz Channel=132597 RB Size=75 Position=#0



Band66 16QAM BW=20MHz Channel=132072 RB Size=100 Position=#0



Band66 16QAM BW=20MHz Channel=132572 RB Size=100 Position=#0



Keysight Spectrum Analyzer - Swept SA

Center Freq 1.71000000 GHz

PASS

PNO: Wide IFGain:Low Trig: Free Run #Atten: 40 dB

Avg Type: RMS AvgHold: 100/100

12:40:17 AM Oct 16, 2022

TRACE 1 2 3 4 5 6

TYPE A

DET A A A A A A

Ref Offset 7.46 dB

Ref 30.00 dBm

Mkr1 1.710 000 GHz

-32.951 dBm

Trace 1 Pass

Center 1.710000 GHz

#Res BW 30 kHz

#VBW 91 kHz*

Span 6.000 MHz

Sweep 8.267 ms (1001 pts)

MSG STATUS

Keysight Spectrum Analyzer - Swept SA

Center Freq 1.78000000 GHz

PASS

PNO: Wide → Trig: Free Run

IF Gain: Low #Atten: 40 dB

Avg Type: RMS

Avg/Hold: 100/100

12:40:25 AM Oct 16, 2022

TRACE 1 2 3 4 5 6

TYPE A A A A A A

DET A A A A A A

Ref Offset 7.51 dB

Ref 30.00 dBm

Mkr1 1.780 000 GHz

-30.172 dBm

Trace 1 Pass

10 dB/div

Log

Center 1.780000 GHz

#Res BW 30 kHz

#VBW 91 kHz*

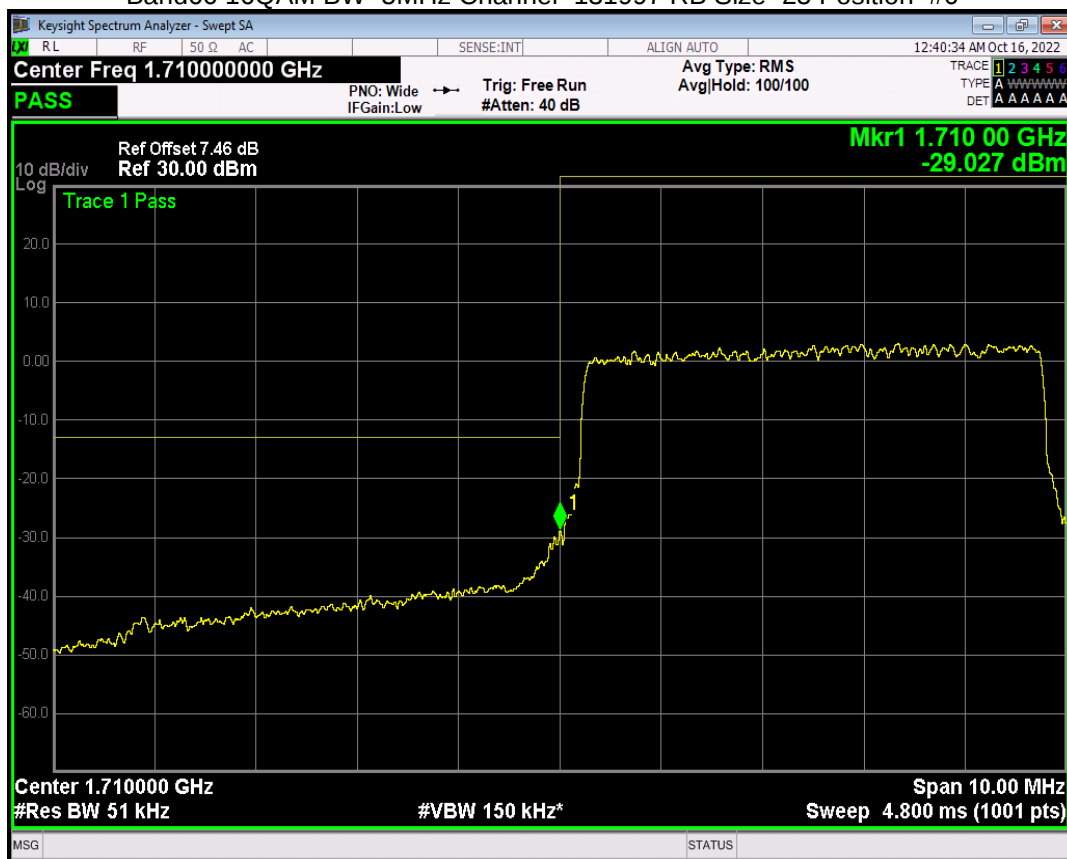
Span 6.000 MHz

Sweep 8.267 ms (1001 pts)

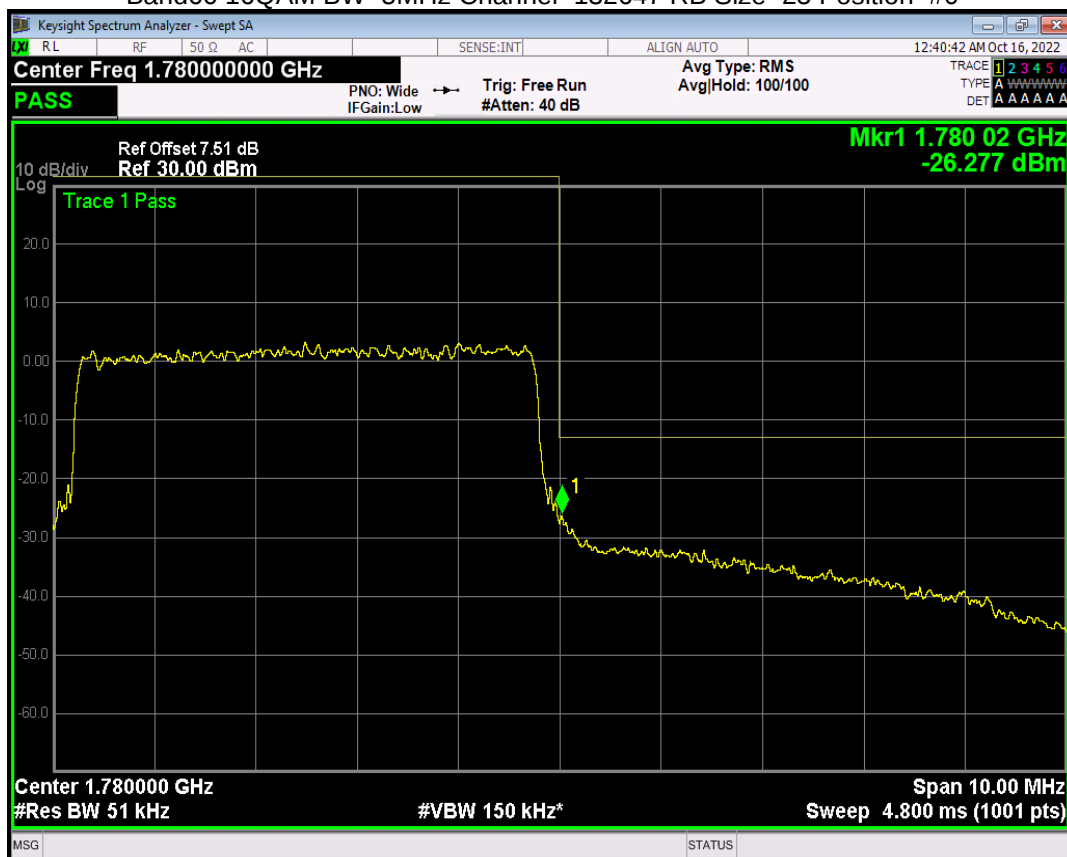
MSG STATUS

The figure is a screenshot of a Keysight Spectrum Analyzer. The main display area shows a frequency spectrum plot with a yellow trace. The trace is flat at approximately 0 dBm from 1.775 GHz to 1.780 GHz, then drops sharply to about -30 dBm at 1.780 GHz, and continues to decrease slowly towards -50 dBm at 1.785 GHz. A green marker labeled '1' is placed at the sharp drop. The top of the screen shows various settings: Center Freq 1.78000000 GHz, PNO: Wide, IF Gain: Low, Trig: Free Run, #Atten: 40 dB, Avg Type: RMS, Avg/Hold: 100/100. The right side shows the date and time: 12:40:25 AM Oct 16, 2022. The bottom of the screen shows the span: 6.000 MHz, sweep time: 8.267 ms (1001 pts), and resolution bandwidth: 30 kHz. The bottom status bar shows 'MSG' and 'STATUS'.

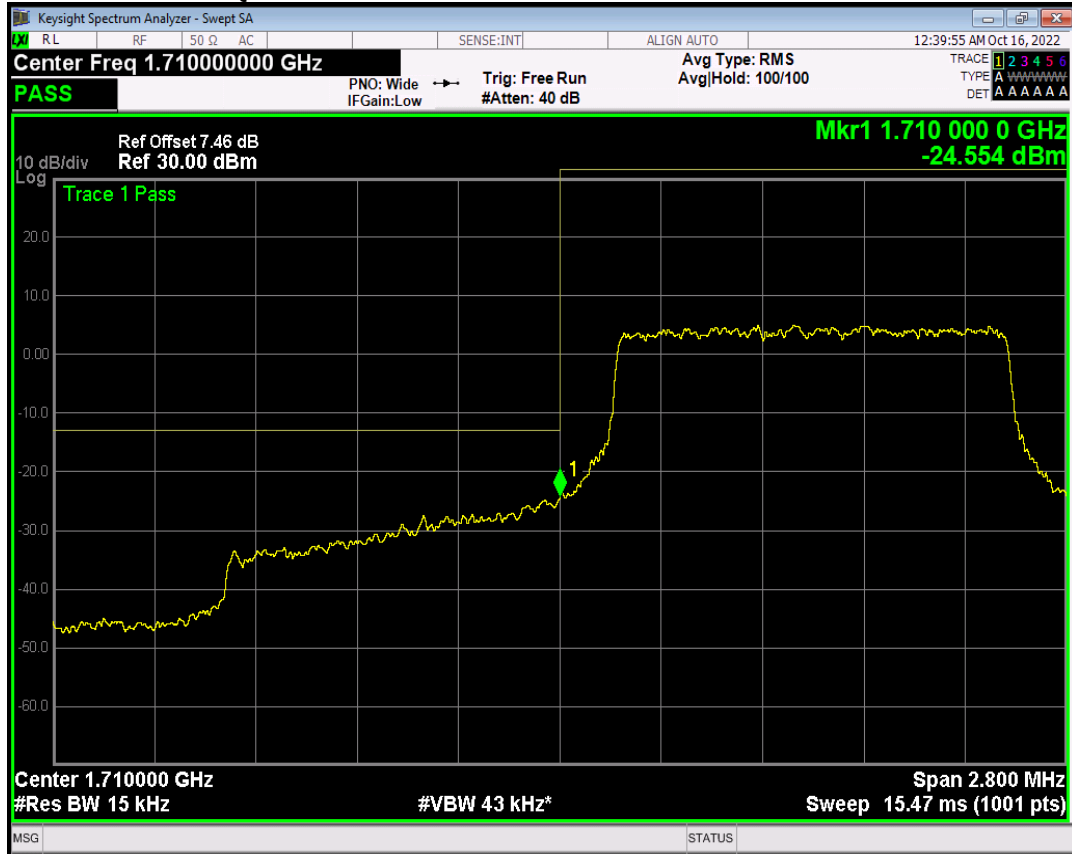
Band66 16QAM BW=5MHz Channel=131997 RB Size=25 Position=#0



Band66 16QAM BW=5MHz Channel=132647 RB Size=25 Position=#0



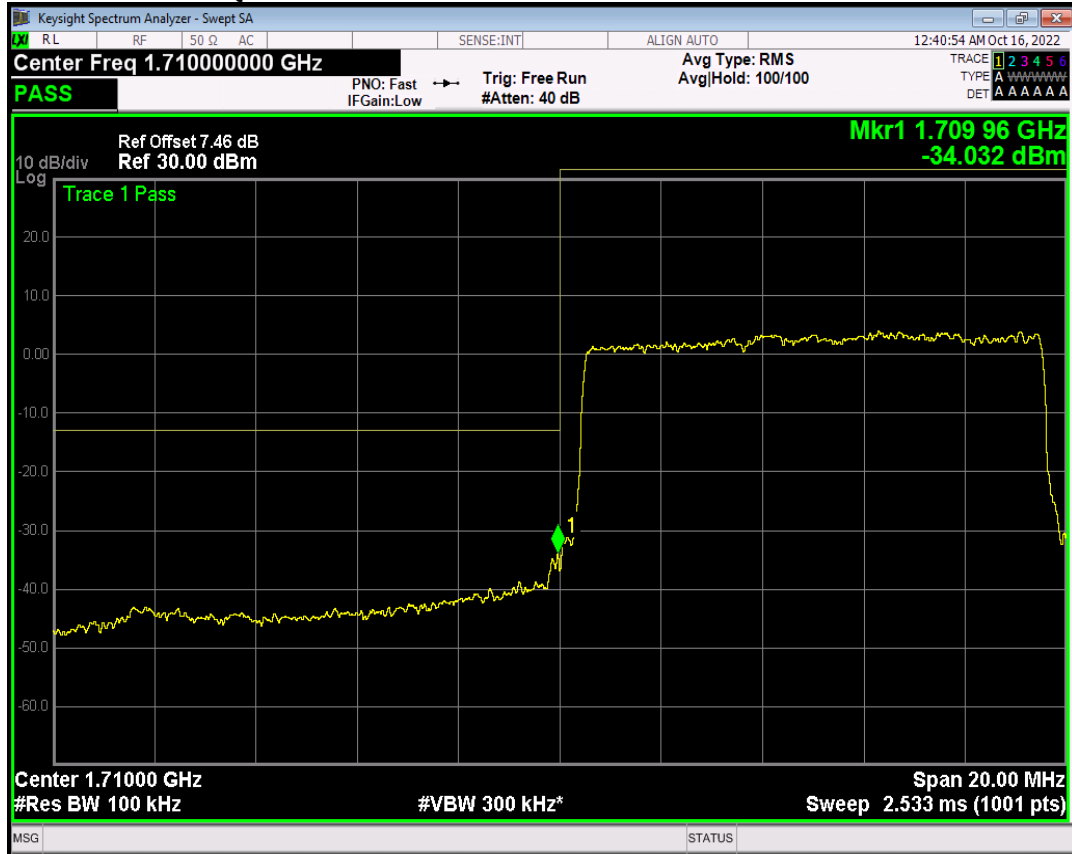
Band66 QPSK BW=1.4MHz Channel=131979 RB Size=6 Position=#0



Band66 QPSK BW=1.4MHz Channel=132665 RB Size=6 Position=#0



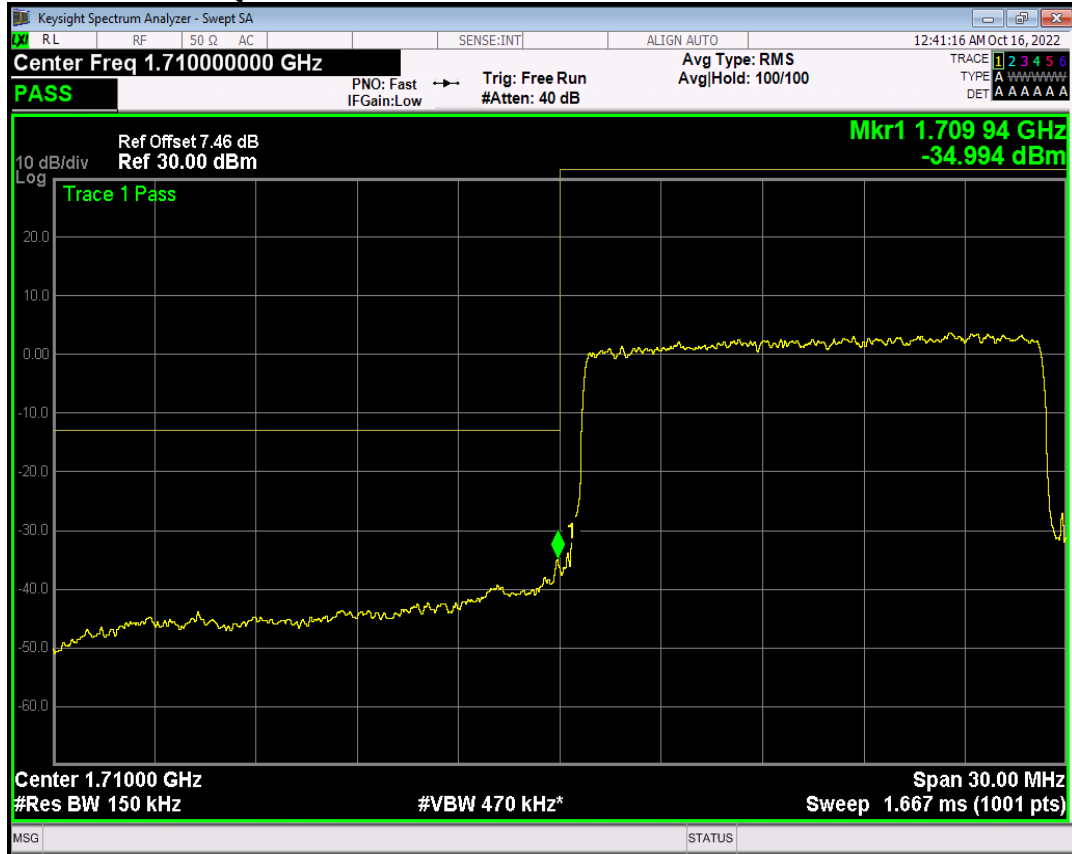
Band66 QPSK BW=10MHz Channel=132022 RB Size=50 Position=#0



Band66 QPSK BW=10MHz Channel=132622 RB Size=50 Position=#0



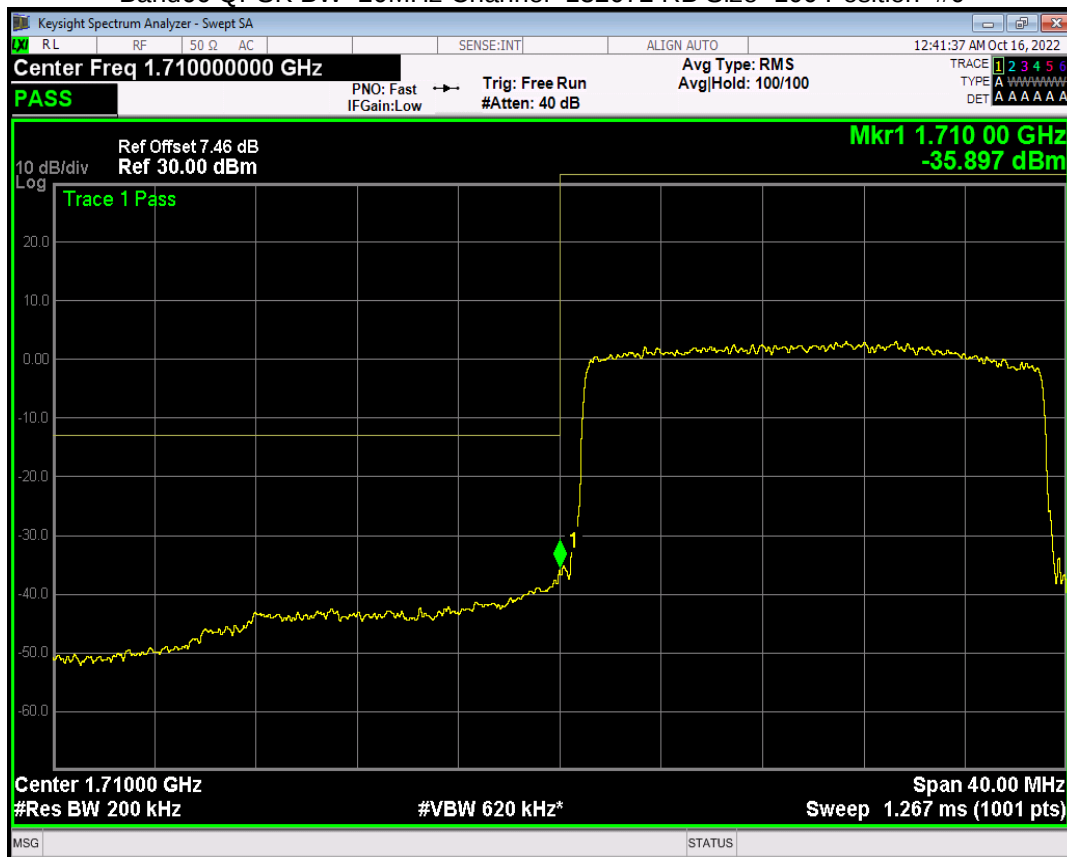
Band66 QPSK BW=15MHz Channel=132047 RB Size=75 Position=#0



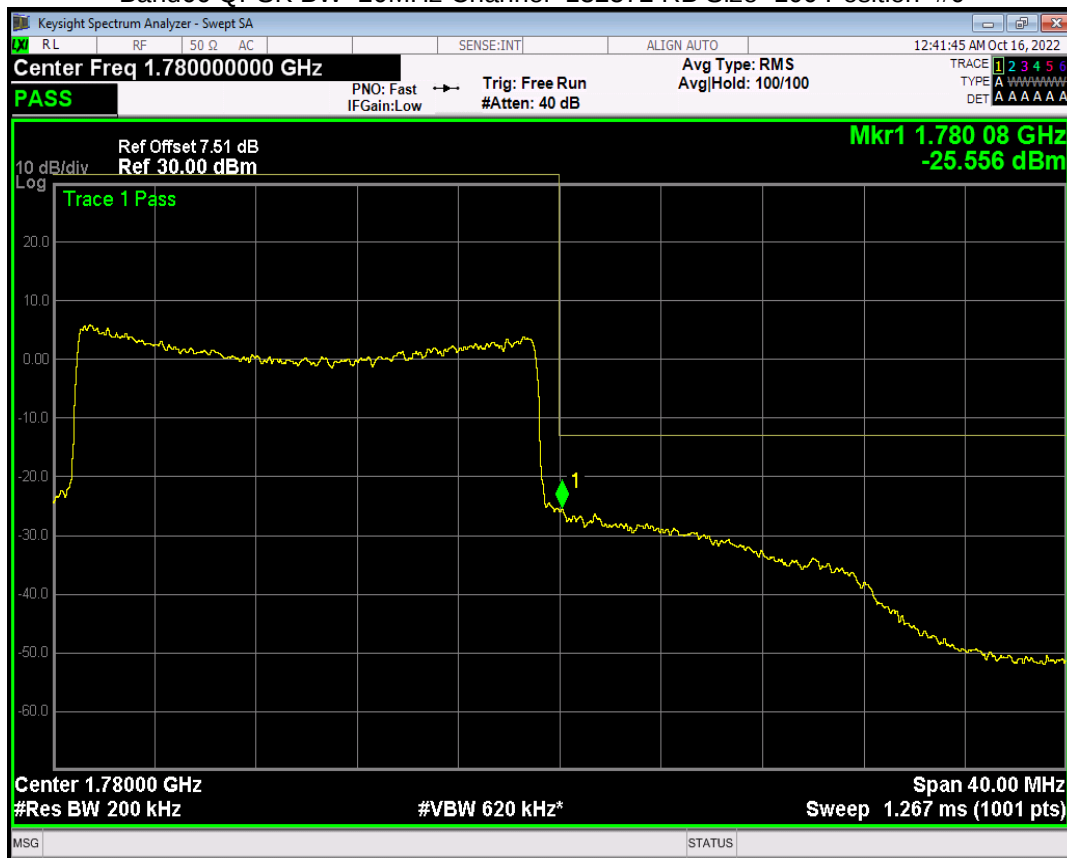
Band66 QPSK BW=15MHz Channel=132597 RB Size=75 Position=#0



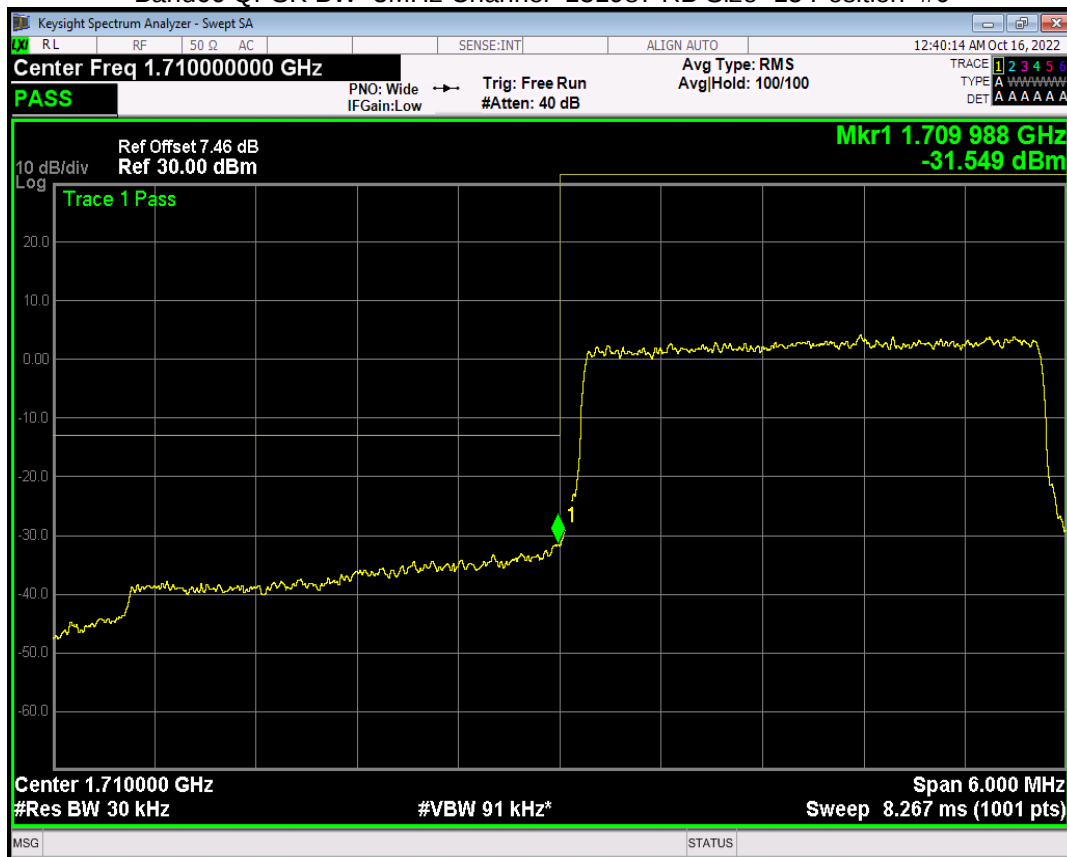
Band66 QPSK BW=20MHz Channel=132072 RB Size=100 Position=#0



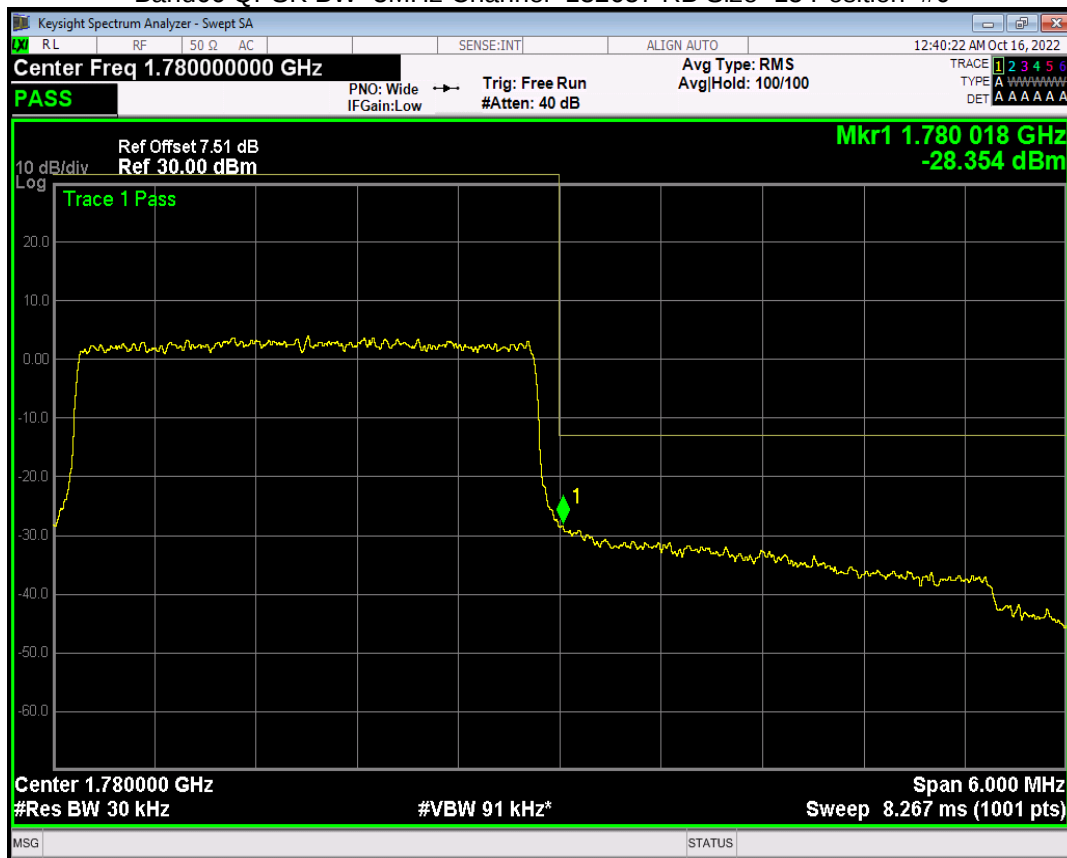
Band66 QPSK BW=20MHz Channel=132572 RB Size=100 Position=#0



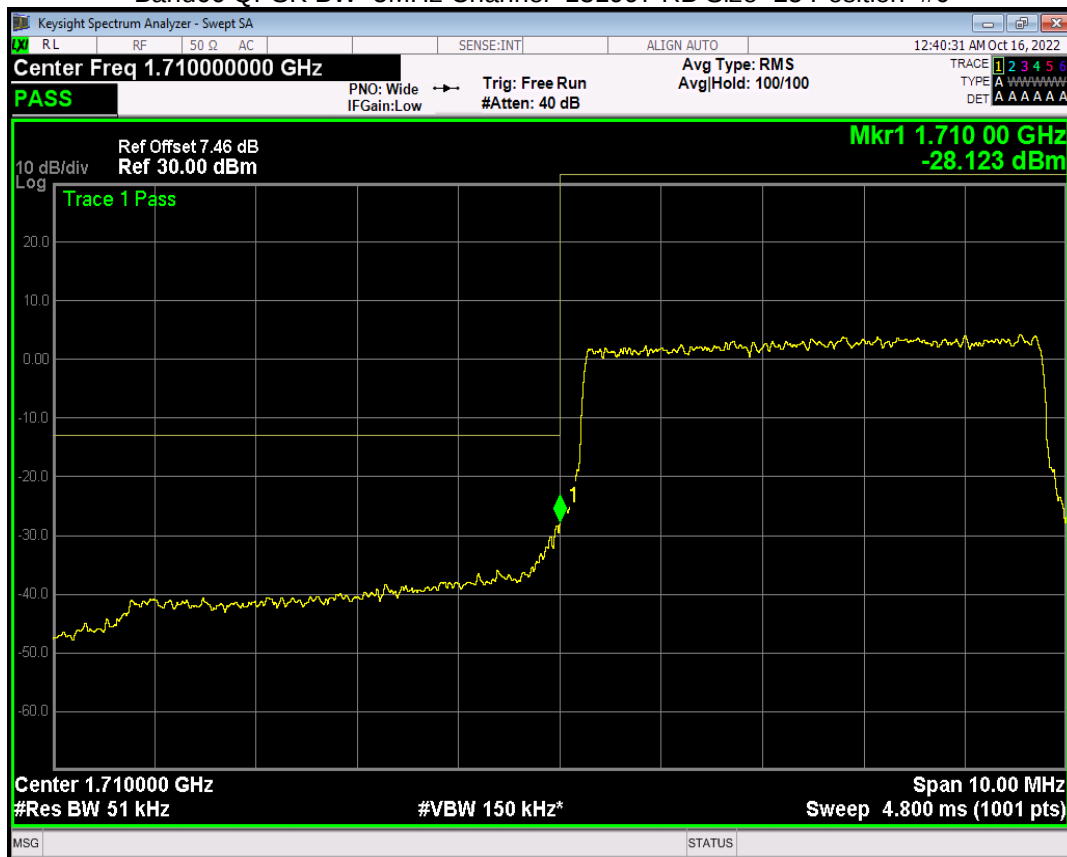
Band66 QPSK BW=3MHz Channel=131987 RB Size=15 Position=#0



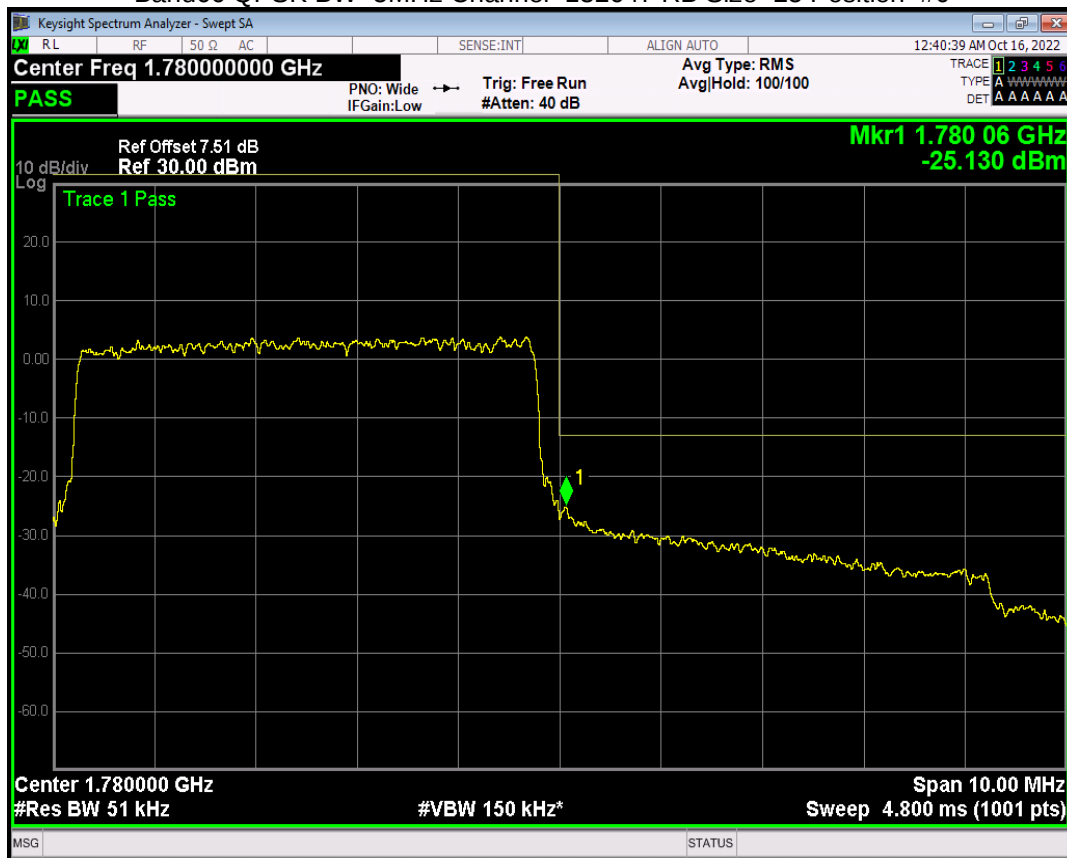
Band66 QPSK BW=3MHz Channel=132657 RB Size=15 Position=#0



Band66 QPSK BW=5MHz Channel=131997 RB Size=25 Position=#0



Band66 QPSK BW=5MHz Channel=132647 RB Size=25 Position=#0

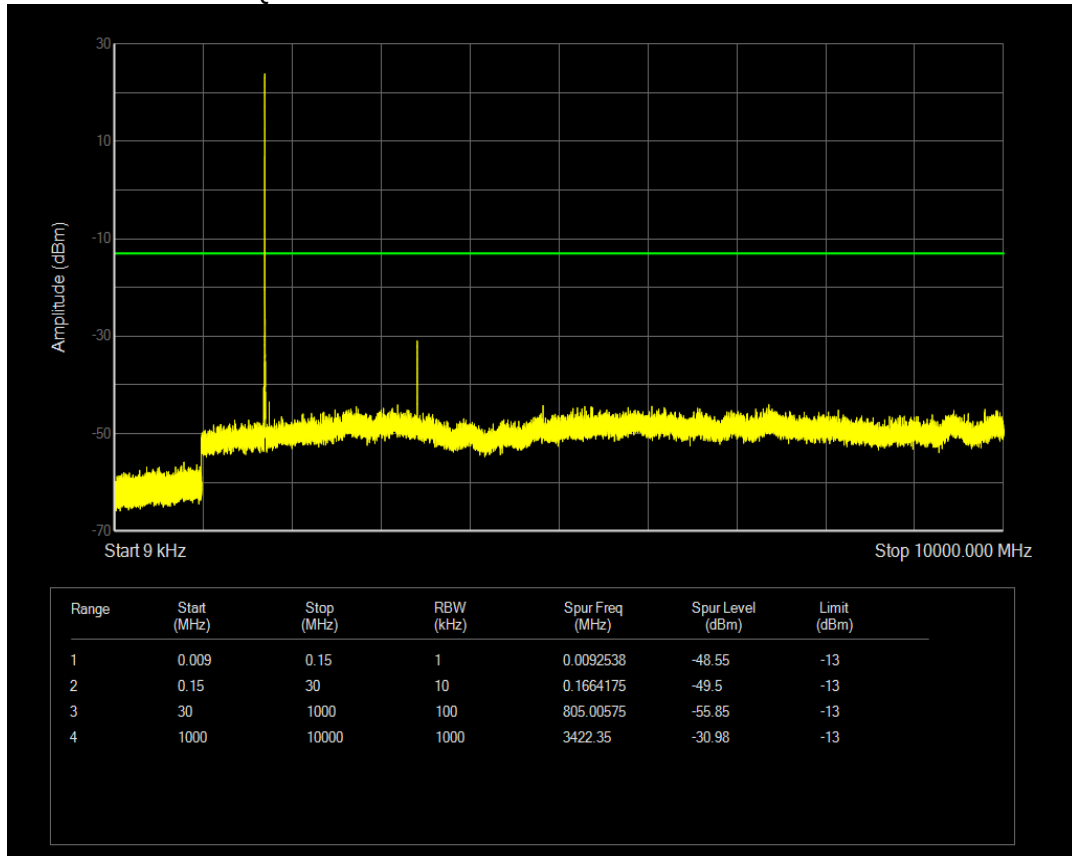


OUT-OF-BAND EMISSIONS

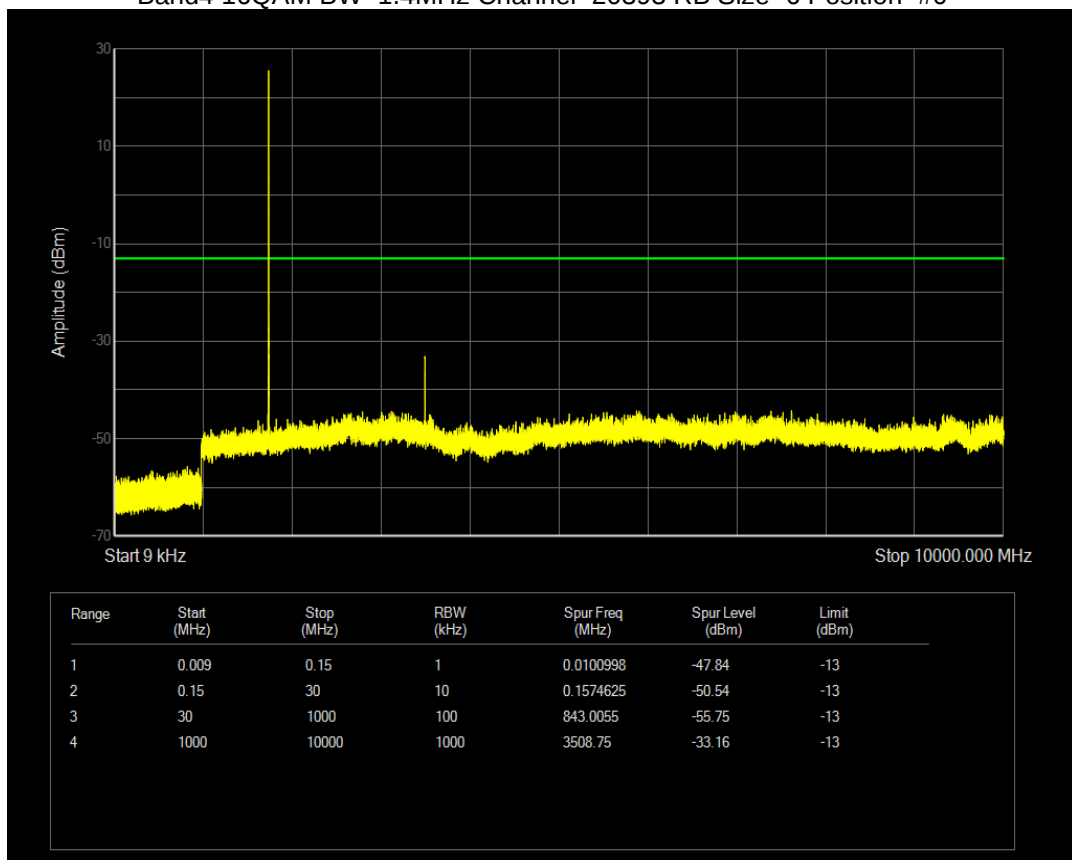
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band4	1.4	19957	6	#0	QPSK	3421.90	-30.72	-13	PASS
Band4	1.4	19957	6	#0	16QAM	3422.35	-30.98	-13	PASS
Band4	1.4	20393	6	#0	QPSK	3509.20	-31.55	-13	PASS
Band4	1.4	20393	6	#0	16QAM	3508.75	-33.16	-13	PASS
Band4	3	19965	15	#0	QPSK	3422.35	-33.76	-13	PASS
Band4	3	19965	15	#0	16QAM	3425.28	-34.22	-13	PASS
Band4	3	20385	15	#0	QPSK	3506.28	-34.16	-13	PASS
Band4	3	20385	15	#0	16QAM	3508.98	-32.94	-13	PASS
Band4	5	19975	25	#0	QPSK	3425.73	-35.36	-13	PASS
Band4	5	19975	25	#0	16QAM	3425.50	-35.28	-13	PASS
Band4	5	20375	25	#0	QPSK	3505.60	-33.63	-13	PASS
Band4	5	20375	25	#0	16QAM	3508.75	-35.04	-13	PASS
Band4	10	20000	50	#0	QPSK	3430.45	-37.50	-13	PASS
Band4	10	20000	50	#0	16QAM	3426.18	-37.87	-13	PASS
Band4	10	20350	50	#0	QPSK	3495.70	-35.13	-13	PASS
Band4	10	20350	50	#0	16QAM	3500.43	-36.84	-13	PASS
Band4	15	20025	75	#0	QPSK	3424.38	-38.54	-13	PASS
Band4	15	20025	75	#0	16QAM	3431.13	-40.85	-13	PASS
Band4	15	20325	75	#0	QPSK	3488.73	-36.28	-13	PASS
Band4	15	20325	75	#0	16QAM	3490.08	-37.49	-13	PASS
Band4	20	20050	100	#0	QPSK	3430.68	-40.86	-13	PASS
Band4	20	20050	100	#0	16QAM	3446.88	-41.72	-13	PASS
Band4	20	20300	100	#0	QPSK	3490.30	-36.19	-13	PASS
Band4	20	20300	100	#0	16QAM	3487.60	-37.31	-13	PASS
Band5	1.4	20407	6	#0	QPSK	1649.80	-40.55	-13	PASS
Band5	1.4	20407	6	#0	16QAM	1649.80	-40.92	-13	PASS
Band5	1.4	20643	6	#0	QPSK	856.17	-29.84	-13	PASS
Band5	1.4	20643	6	#0	16QAM	1697.50	-39.71	-13	PASS
Band5	3	20415	15	#0	QPSK	1652.73	-44.21	-13	PASS
Band5	3	20415	15	#0	16QAM	1651.38	-44.90	-13	PASS
Band5	3	20635	15	#0	QPSK	1693.90	-42.21	-13	PASS
Band5	3	20635	15	#0	16QAM	1693.45	-42.68	-13	PASS
Band5	5	20425	25	#0	QPSK	5791.15	-44.53	-13	PASS
Band5	5	20425	25	#0	16QAM	1652.95	-44.73	-13	PASS
Band5	5	20625	25	#0	QPSK	2656.90	-44.12	-13	PASS
Band5	5	20625	25	#0	16QAM	1693.45	-44.31	-13	PASS
Band5	10	20450	50	#0	QPSK	5381.43	-44.10	-13	PASS
Band5	10	20450	50	#0	16QAM	5797.90	-45.08	-13	PASS
Band5	10	20600	50	#0	QPSK	6964.30	-44.38	-13	PASS
Band5	10	20600	50	#0	16QAM	5925.70	-44.65	-13	PASS
Band12	1.4	23017	6	#0	QPSK	1400.05	-42.57	-13	PASS
Band12	1.4	23017	6	#0	16QAM	1399.83	-43.17	-13	PASS
Band12	1.4	23173	6	#0	QPSK	2146.15	-40.29	-13	PASS
Band12	1.4	23173	6	#0	16QAM	1430.65	-41.25	-13	PASS
Band12	3	23025	15	#0	QPSK	1400.28	-44.45	-13	PASS
Band12	3	23025	15	#0	16QAM	2101.60	-43.74	-13	PASS
Band12	3	23165	15	#0	QPSK	1428.18	-43.14	-13	PASS
Band12	3	23165	15	#0	16QAM	1430.88	-42.38	-13	PASS
Band12	5	23035	25	#0	QPSK	5886.33	-44.54	-13	PASS
Band12	5	23035	25	#0	16QAM	7473.03	-45.33	-13	PASS
Band12	5	23155	25	#0	QPSK	5634.10	-44.18	-13	PASS
Band12	5	23155	25	#0	16QAM	1424.58	-43.59	-13	PASS
Band12	10	23060	50	#0	QPSK	3307.15	-44.94	-13	PASS
Band12	10	23060	50	#0	16QAM	3239.43	-45.12	-13	PASS
Band12	10	23130	50	#0	QPSK	5514.85	-44.98	-13	PASS
Band12	10	23130	50	#0	16QAM	6260.50	-44.66	-13	PASS

Band13	5	23205	25	#0	QPSK	1561.65	-41.67	-40	PASS
Band13	5	23205	25	#0	16QAM	1561.71	-40.18	-40	PASS
Band13	5	23255	25	#0	QPSK	1566.86	-42.81	-40	PASS
Band13	5	23255	25	#0	16QAM	1566.12	-42.29	-40	PASS
Band13	10	23230	50	#0	QPSK	1564.22	-42.16	-40	PASS
Band13	10	23230	50	#0	16QAM	1565.15	-43.27	-40	PASS
Band66	1.4	131979	6	#0	QPSK	3421.90	-30.97	-13	PASS
Band66	1.4	131979	6	#0	16QAM	3421.45	-31.72	-13	PASS
Band66	1.4	132665	6	#0	QPSK	3559.15	-26.86	-13	PASS
Band66	1.4	132665	6	#0	16QAM	3559.60	-26.44	-13	PASS
Band66	3	131987	15	#0	QPSK	3423.70	-33.98	-13	PASS
Band66	3	131987	15	#0	16QAM	3422.13	-33.68	-13	PASS
Band66	3	132657	15	#0	QPSK	3557.80	-28.53	-13	PASS
Band66	3	132657	15	#0	16QAM	3556.23	-28.82	-13	PASS
Band66	5	131997	25	#0	QPSK	3425.50	-35.43	-13	PASS
Band66	5	131997	25	#0	16QAM	3425.05	-35.01	-13	PASS
Band66	5	132647	25	#0	QPSK	3555.78	-29.89	-13	PASS
Band66	5	132647	25	#0	16QAM	3555.55	-29.28	-13	PASS
Band66	10	132022	50	#0	QPSK	3423.93	-37.71	-13	PASS
Band66	10	132022	50	#0	16QAM	3427.75	-37.71	-13	PASS
Band66	10	132622	50	#0	QPSK	3550.38	-30.99	-13	PASS
Band66	10	132622	50	#0	16QAM	3549.25	-32.66	-13	PASS
Band66	15	132047	75	#0	QPSK	3429.10	-38.57	-13	PASS
Band66	15	132047	75	#0	16QAM	3433.15	-40.69	-13	PASS
Band66	15	132597	75	#0	QPSK	3542.28	-32.17	-13	PASS
Band66	15	132597	75	#0	16QAM	3546.33	-32.75	-13	PASS
Band66	20	132072	100	#0	QPSK	3454.30	-41.30	-13	PASS
Band66	20	132072	100	#0	16QAM	3431.58	-41.16	-13	PASS
Band66	20	132572	100	#0	QPSK	3549.03	-34.07	-13	PASS
Band66	20	132572	100	#0	16QAM	3540.48	-34.57	-13	PASS

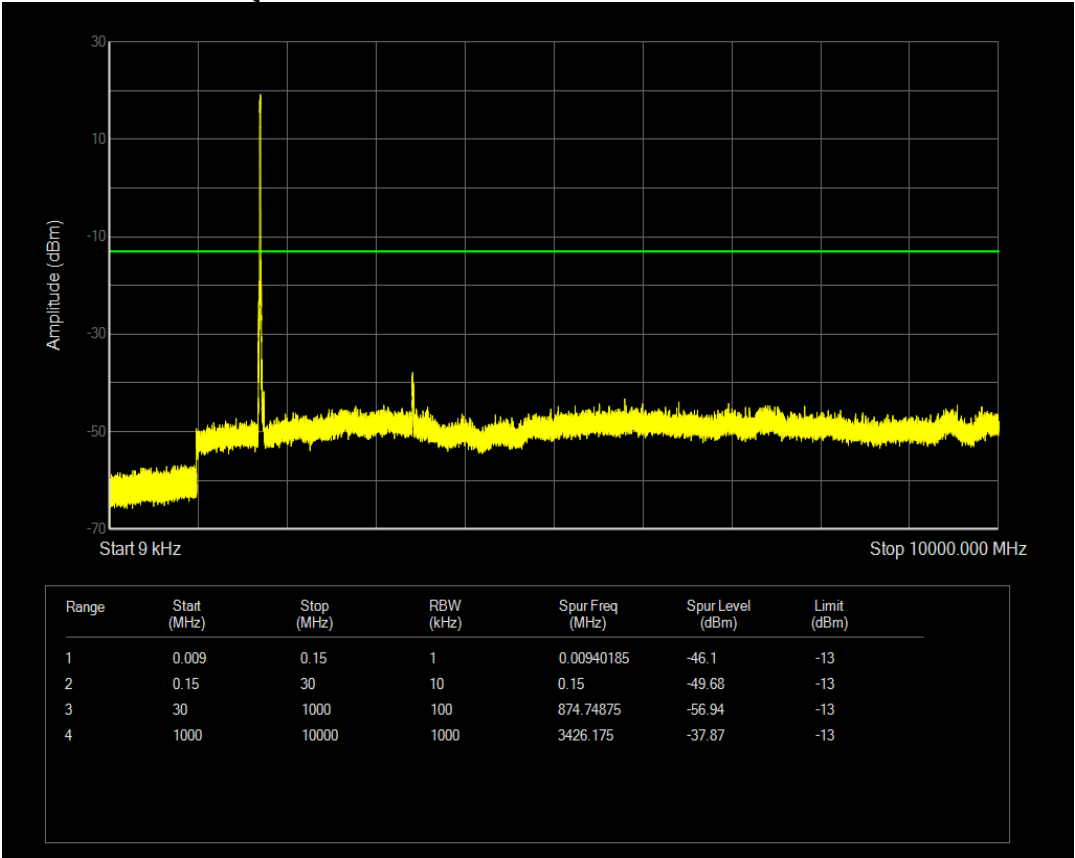
Band4 16QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0



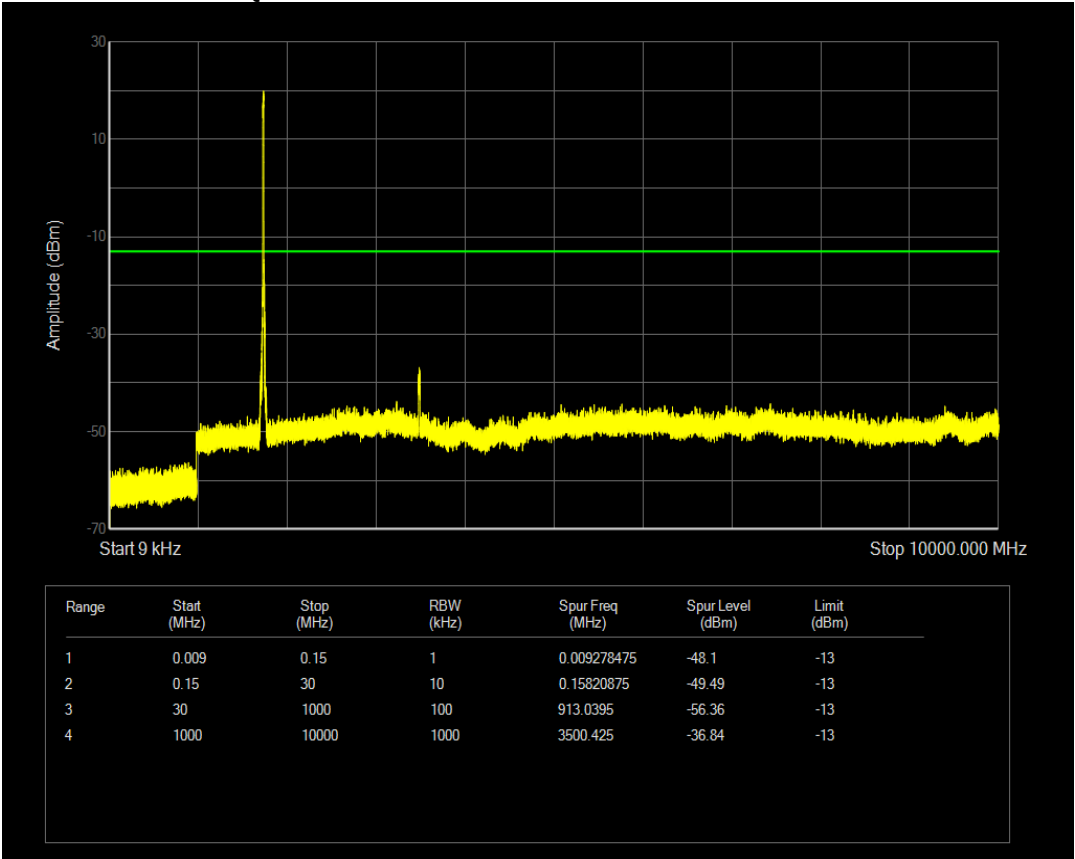
Band4 16QAM BW=1.4MHz Channel=20393 RB Size=6 Position=#0



Band4 16QAM BW=10MHz Channel=20000 RB Size=50 Position=#0



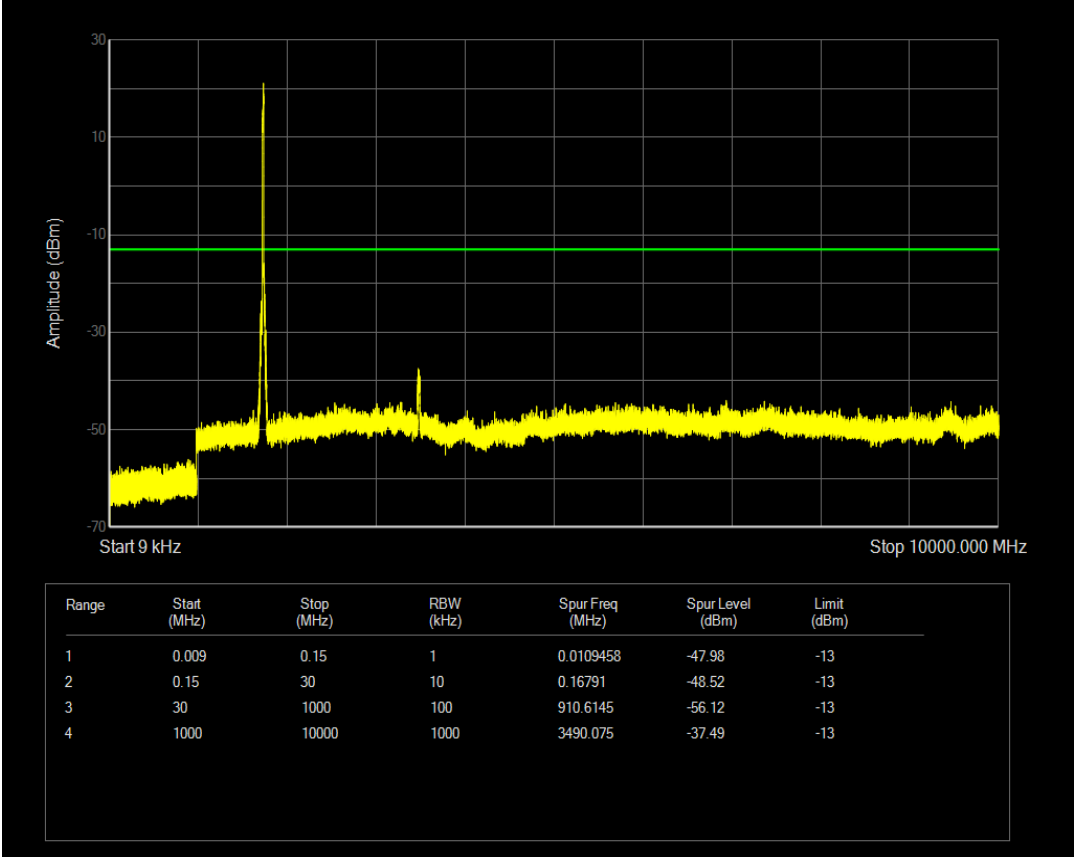
Band4 16QAM BW=10MHz Channel=20350 RB Size=50 Position=#0



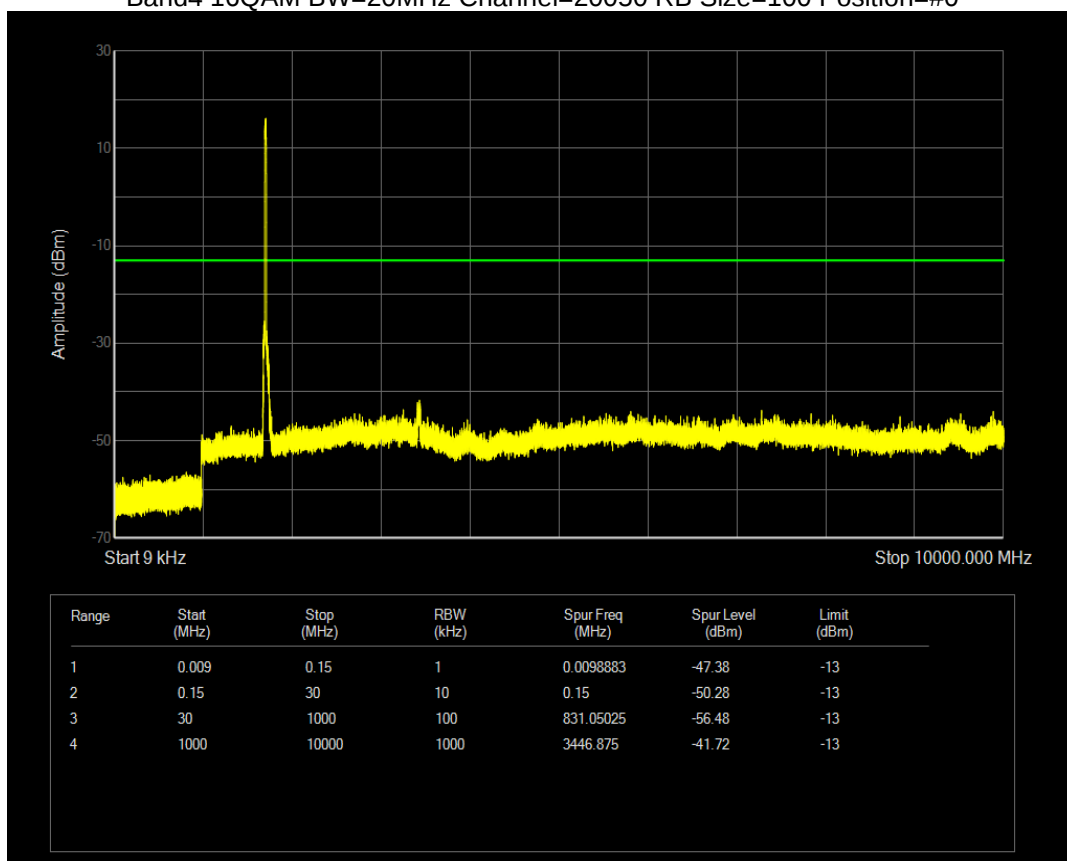
Band4 16QAM BW=15MHz Channel=20025 RB Size=75 Position=#0



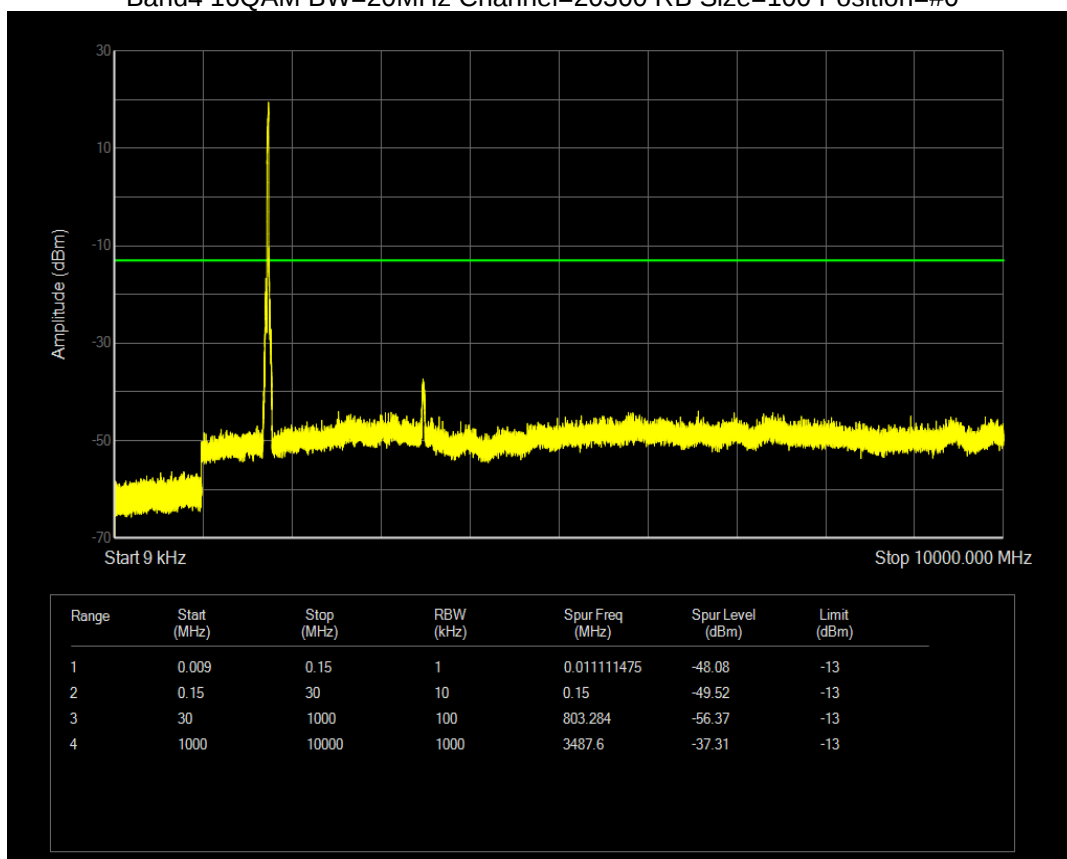
Band4 16QAM BW=15MHz Channel=20325 RB Size=75 Position=#0



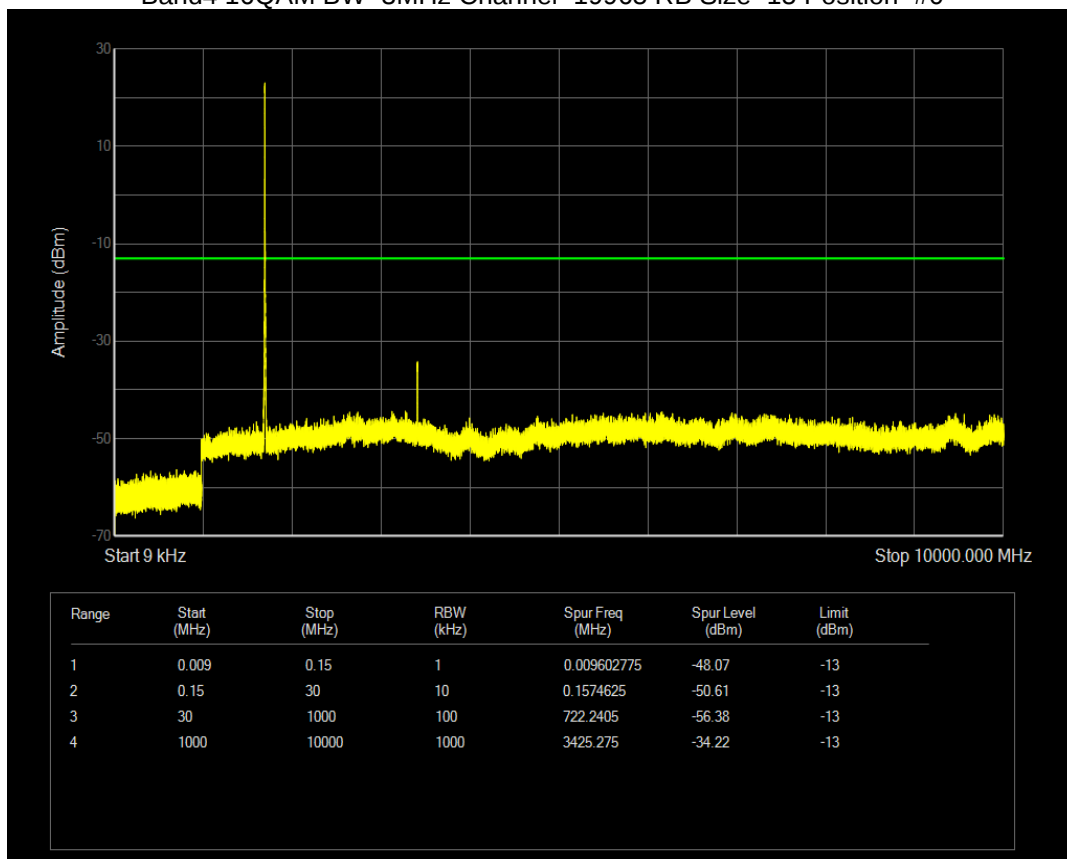
Band4 16QAM BW=20MHz Channel=20050 RB Size=100 Position=#0



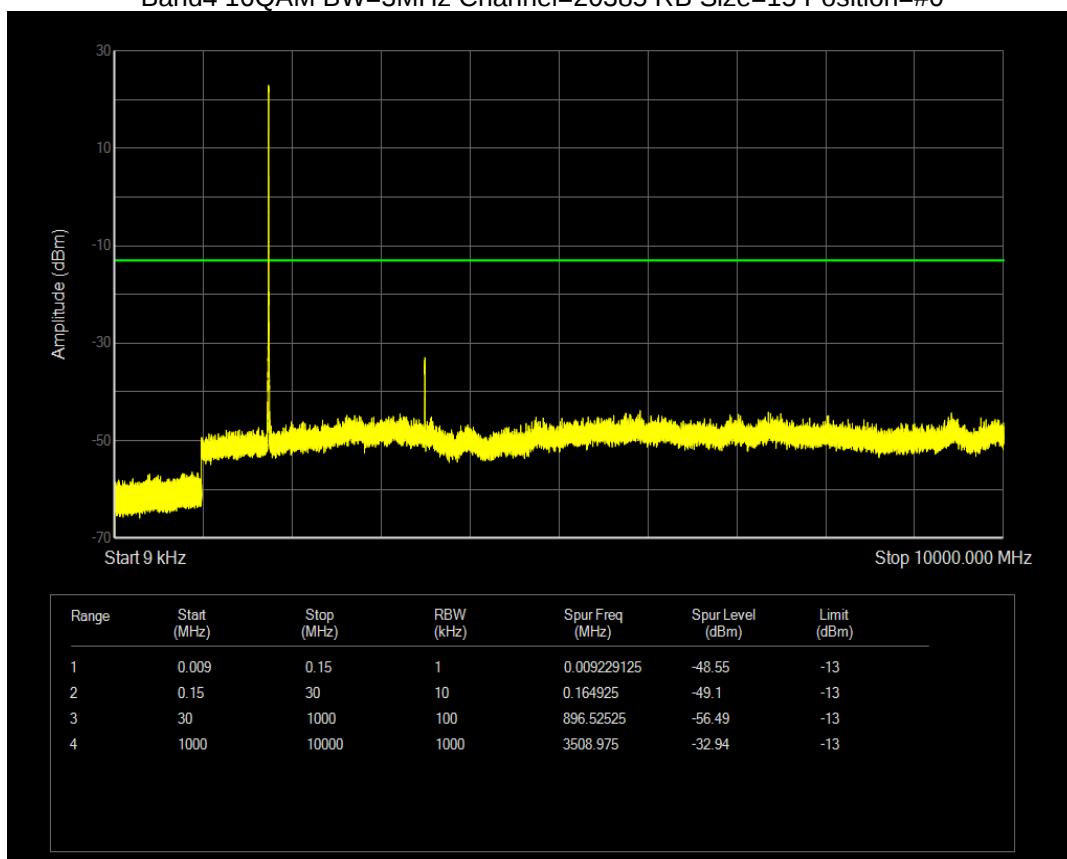
Band4 16QAM BW=20MHz Channel=20300 RB Size=100 Position=#0



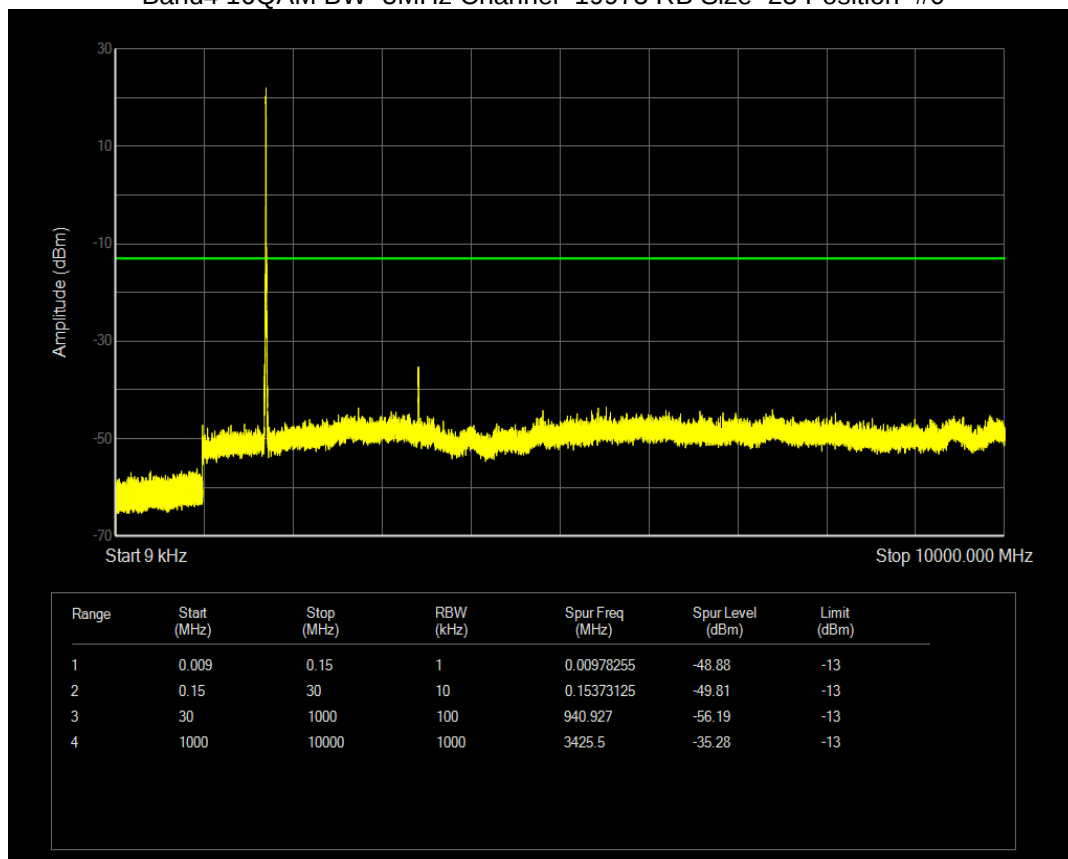
Band4 16QAM BW=3MHz Channel=19965 RB Size=15 Position=#0



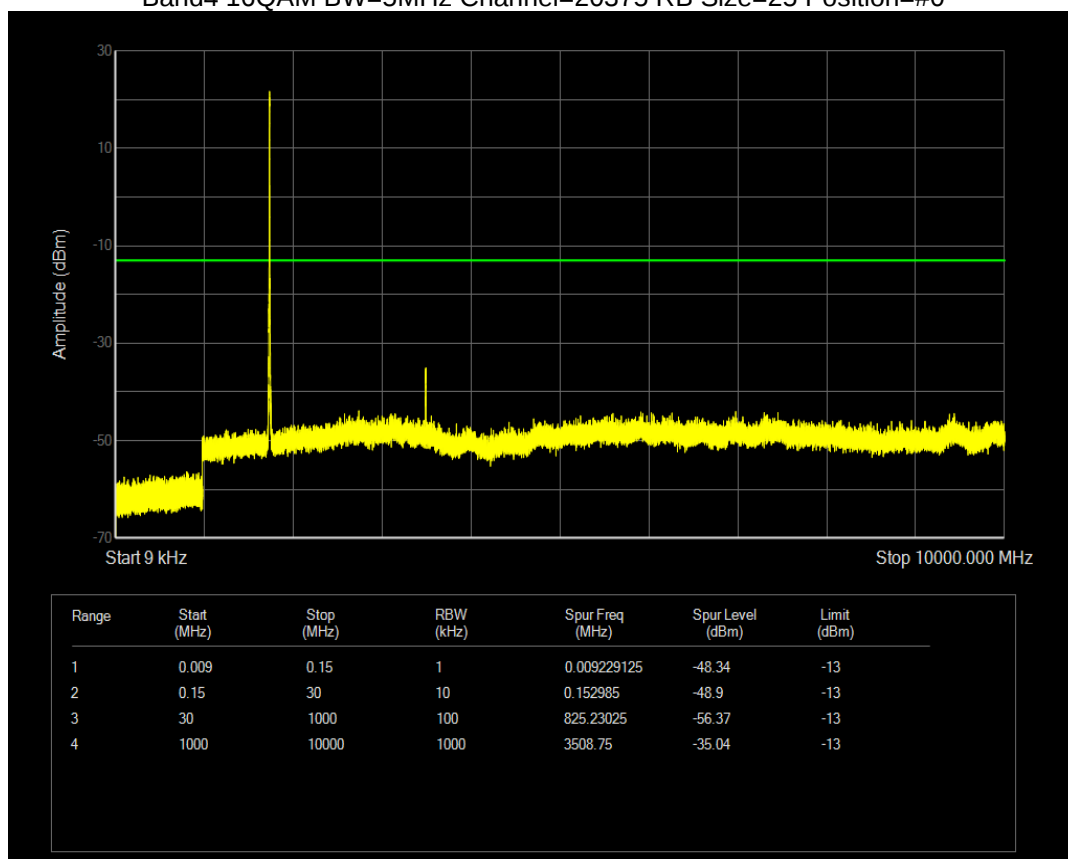
Band4 16QAM BW=3MHz Channel=20385 RB Size=15 Position=#0



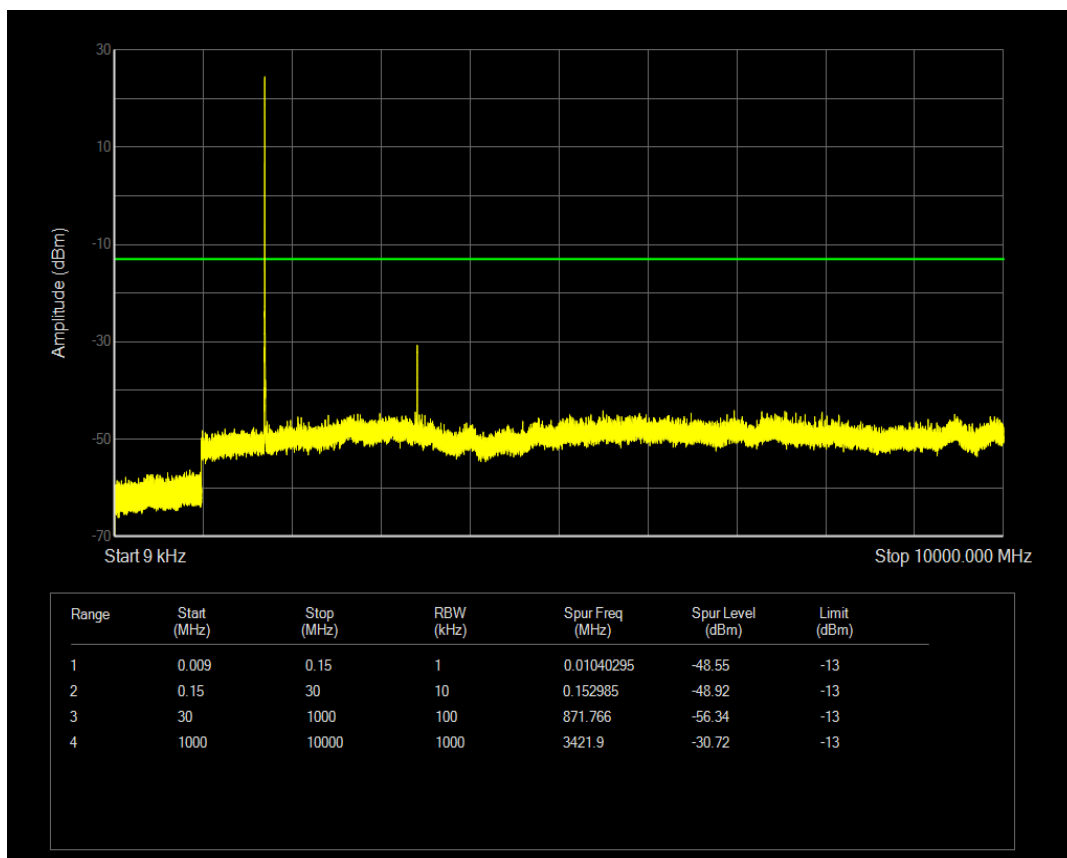
Band4 16QAM BW=5MHz Channel=19975 RB Size=25 Position=#0



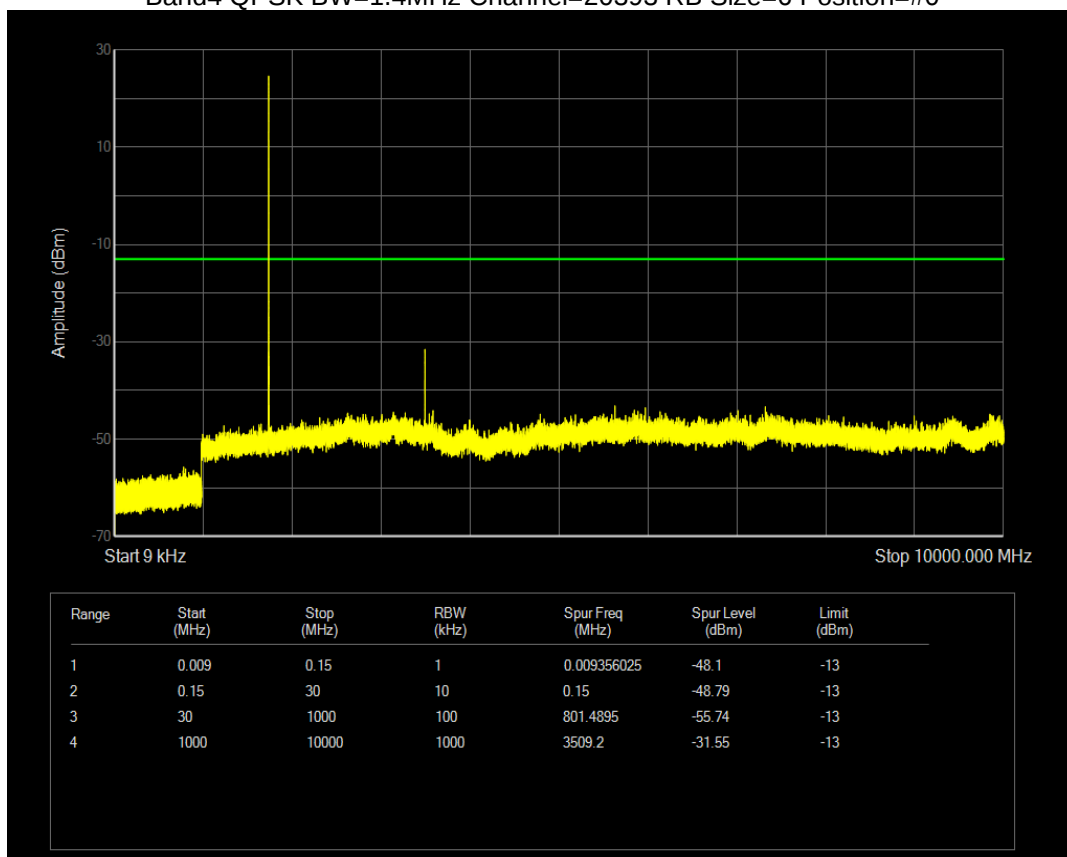
Band4 16QAM BW=5MHz Channel=20375 RB Size=25 Position=#0



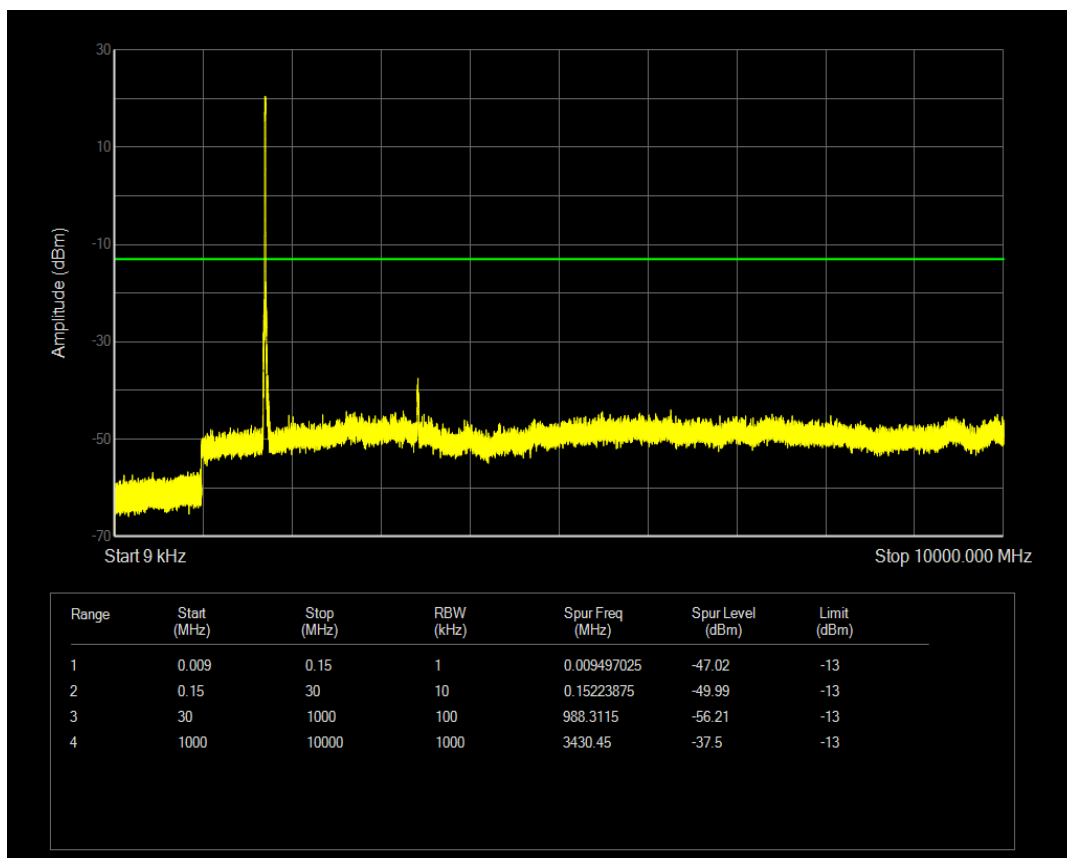
Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0



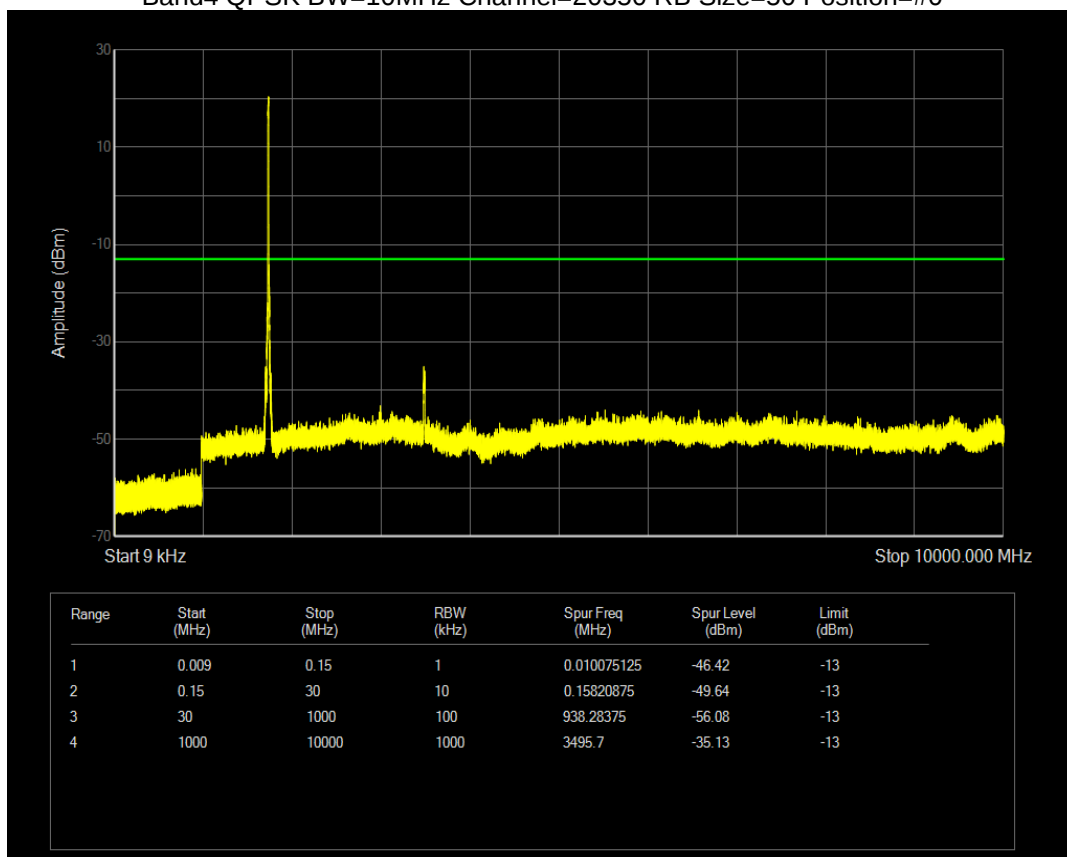
Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0



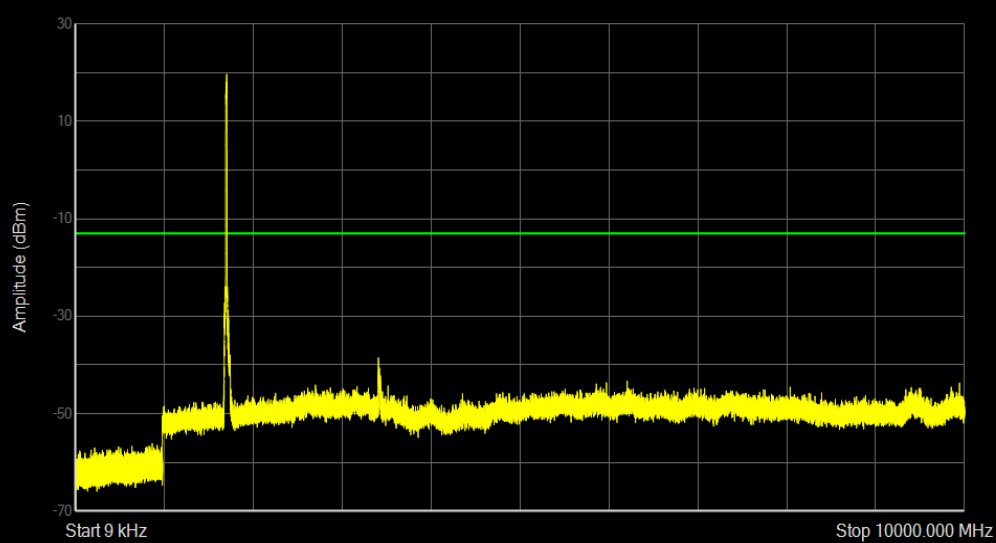
Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0



Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0

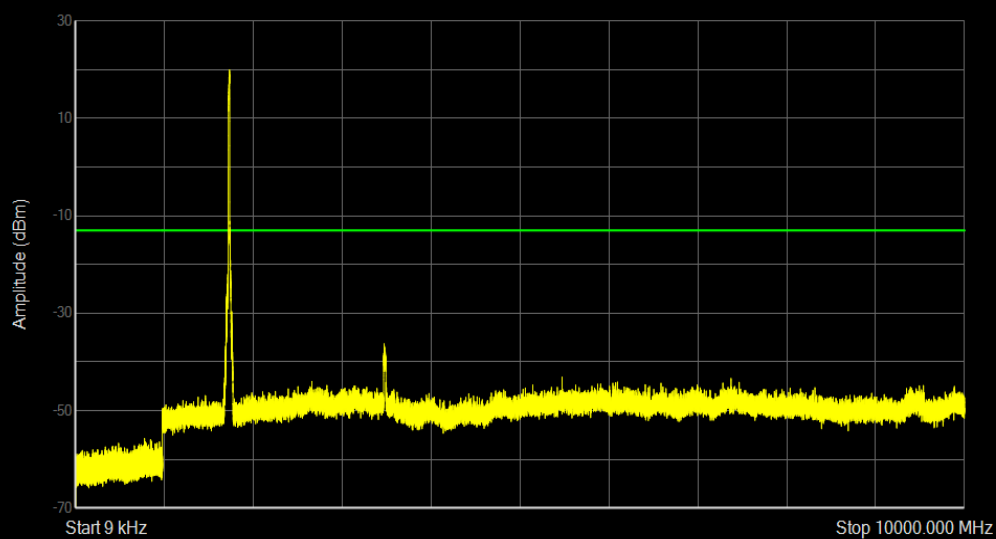


Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009306675	-48.08	-13
2	0.15	30	10	0.15	-50.12	-13
3	30	1000	100	886.63125	-56.19	-13
4	1000	10000	1000	3424.375	-38.54	-13

Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0

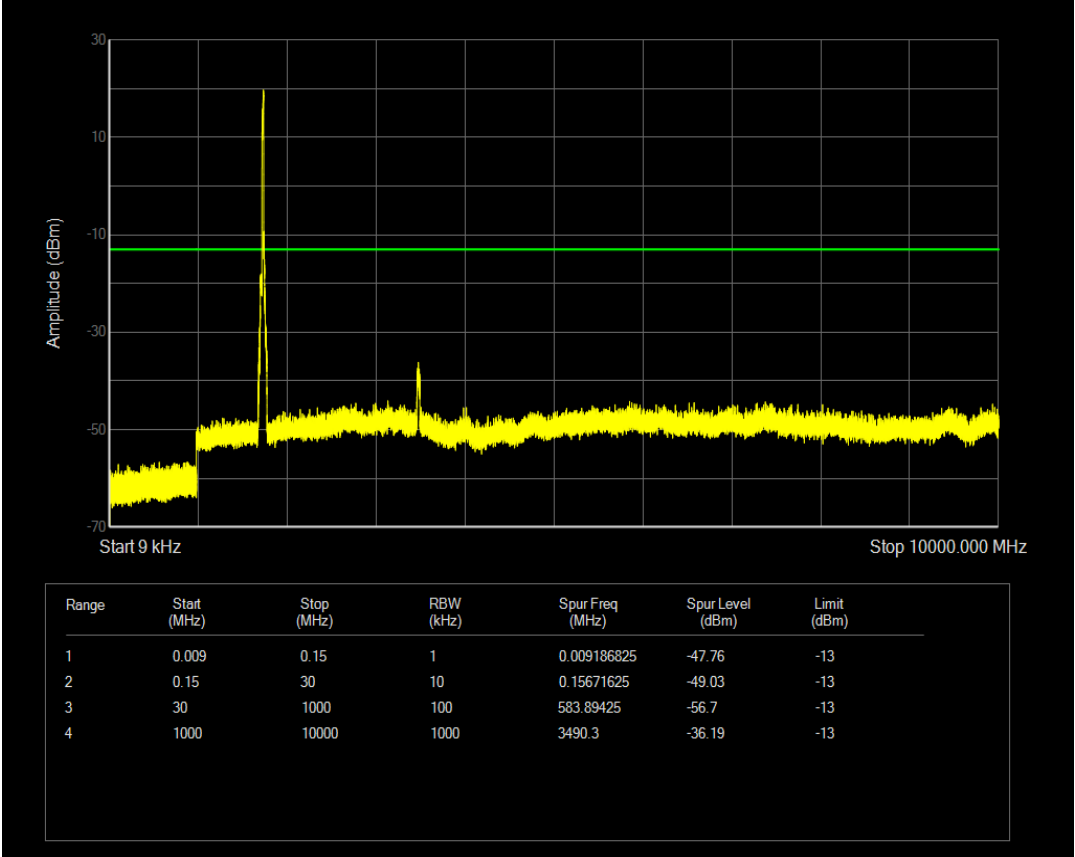


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009151575	-46	-13
2	0.15	30	10	0.15820875	-51.05	-13
3	30	1000	100	799.81625	-55.71	-13
4	1000	10000	1000	3488.725	-36.28	-13

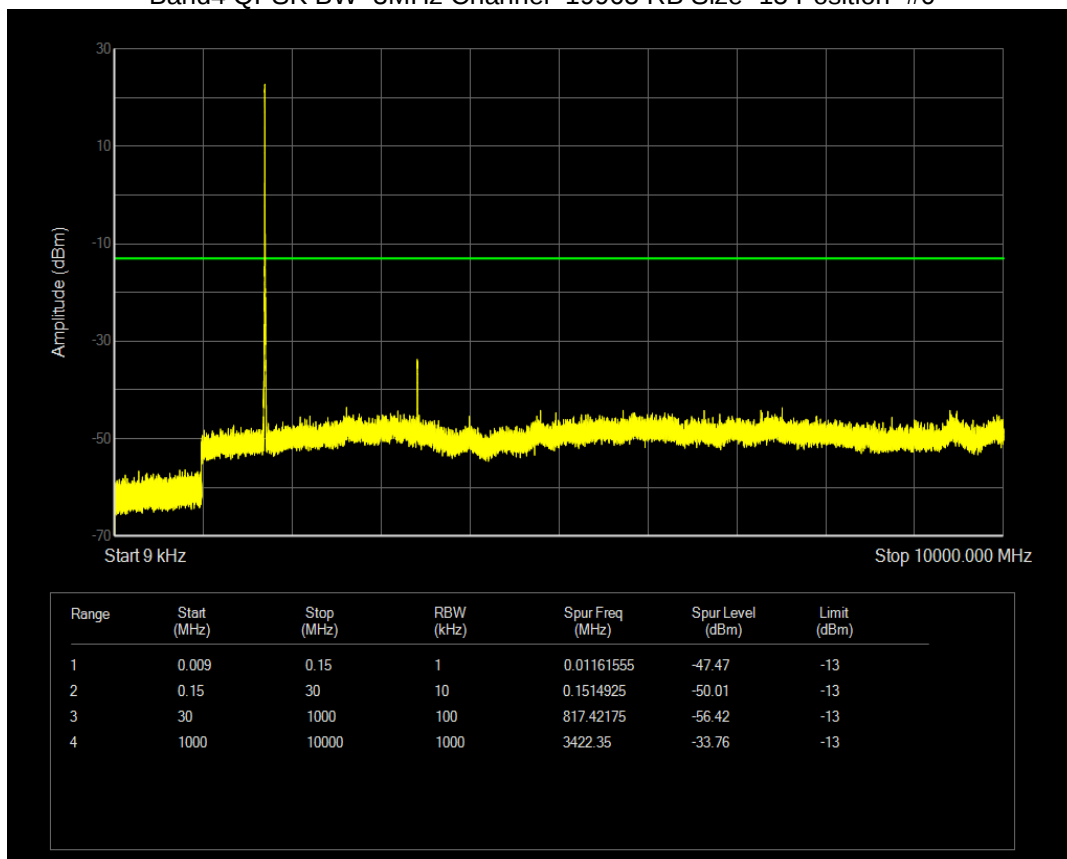
Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0



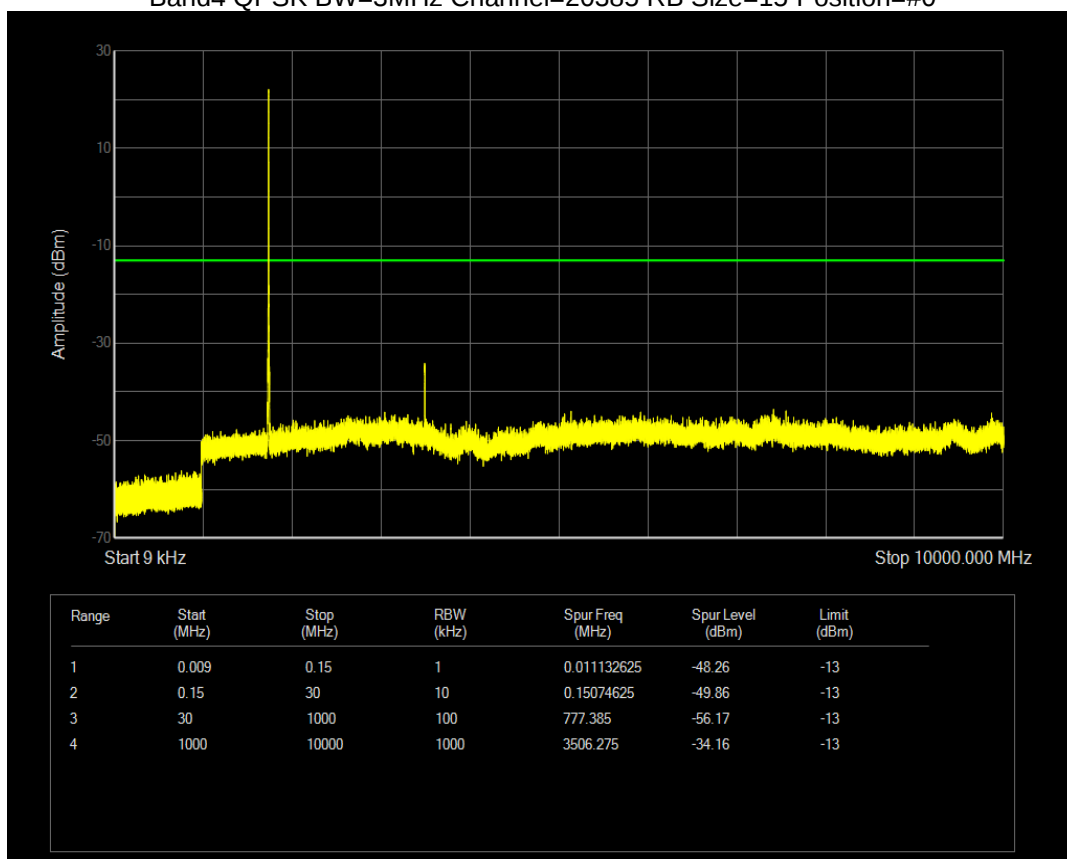
Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0



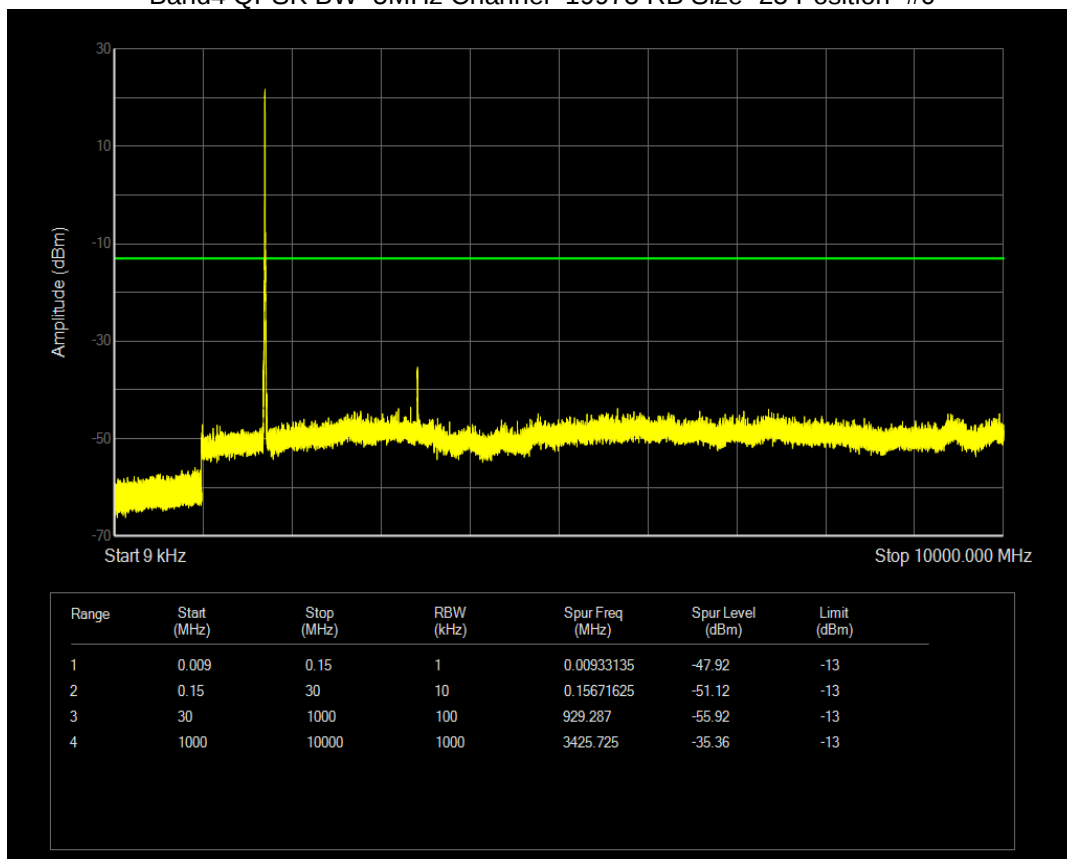
Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0



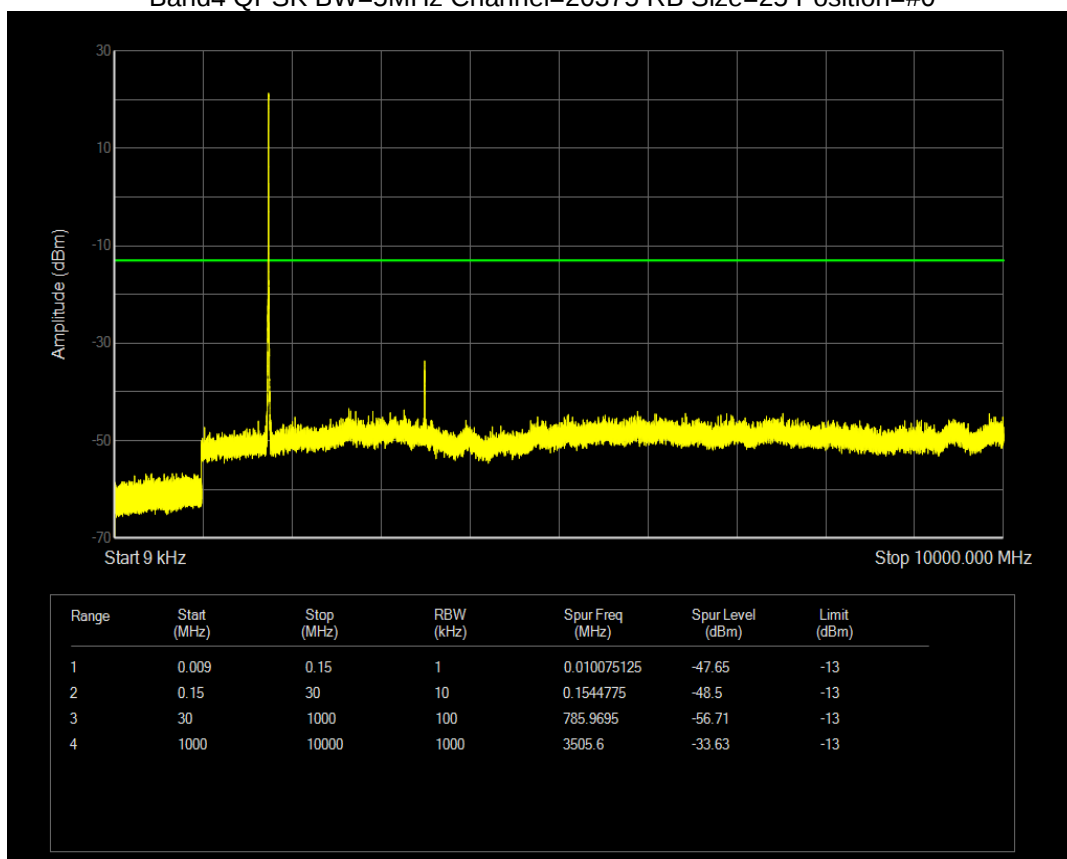
Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0



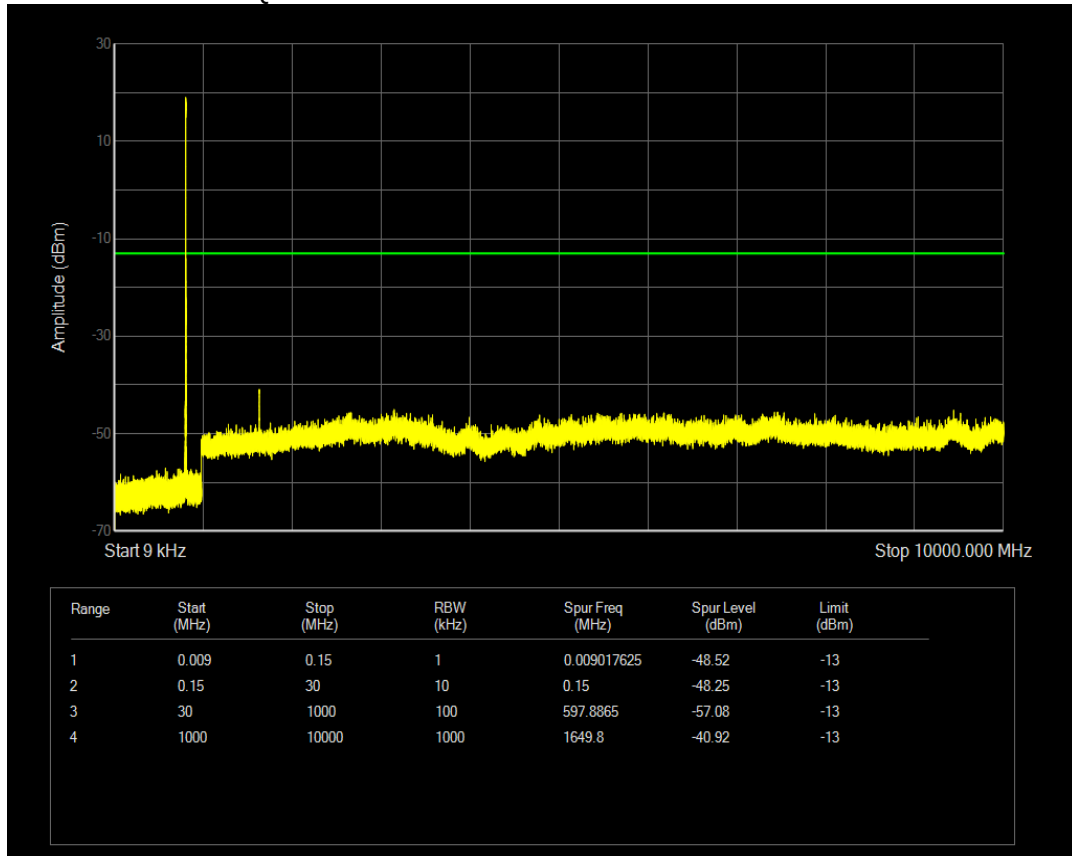
Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0



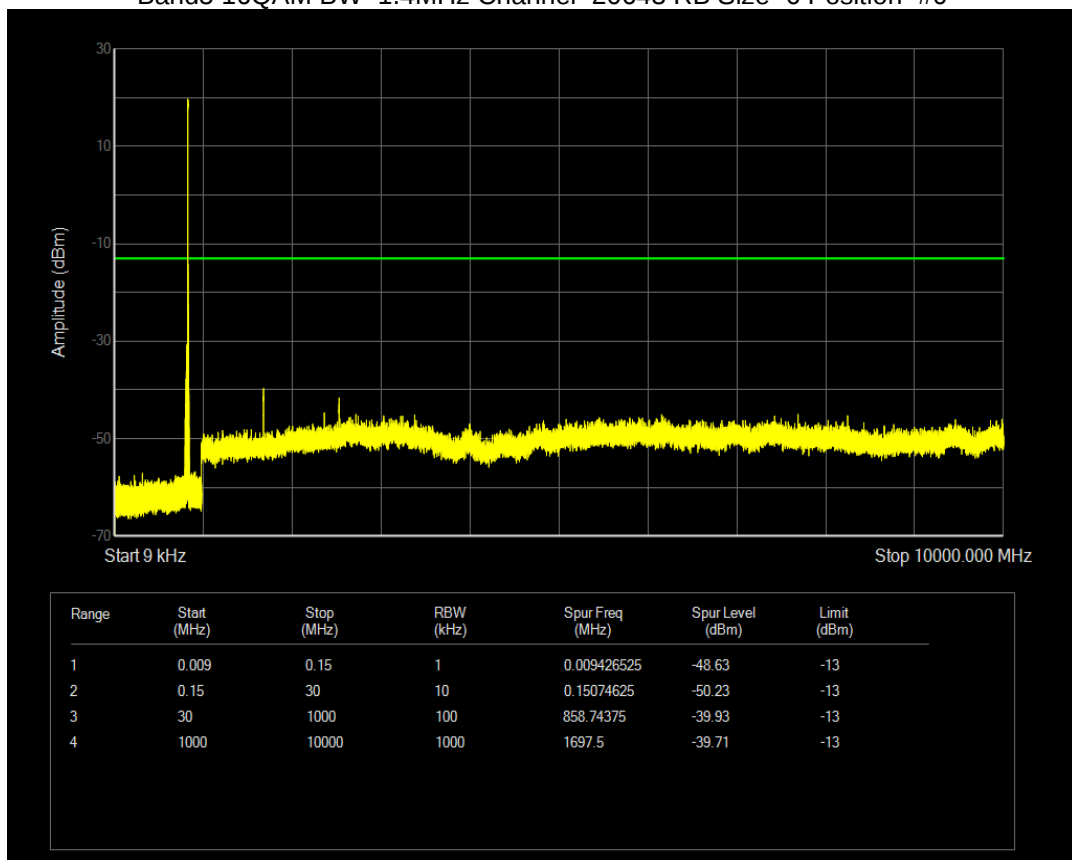
Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0



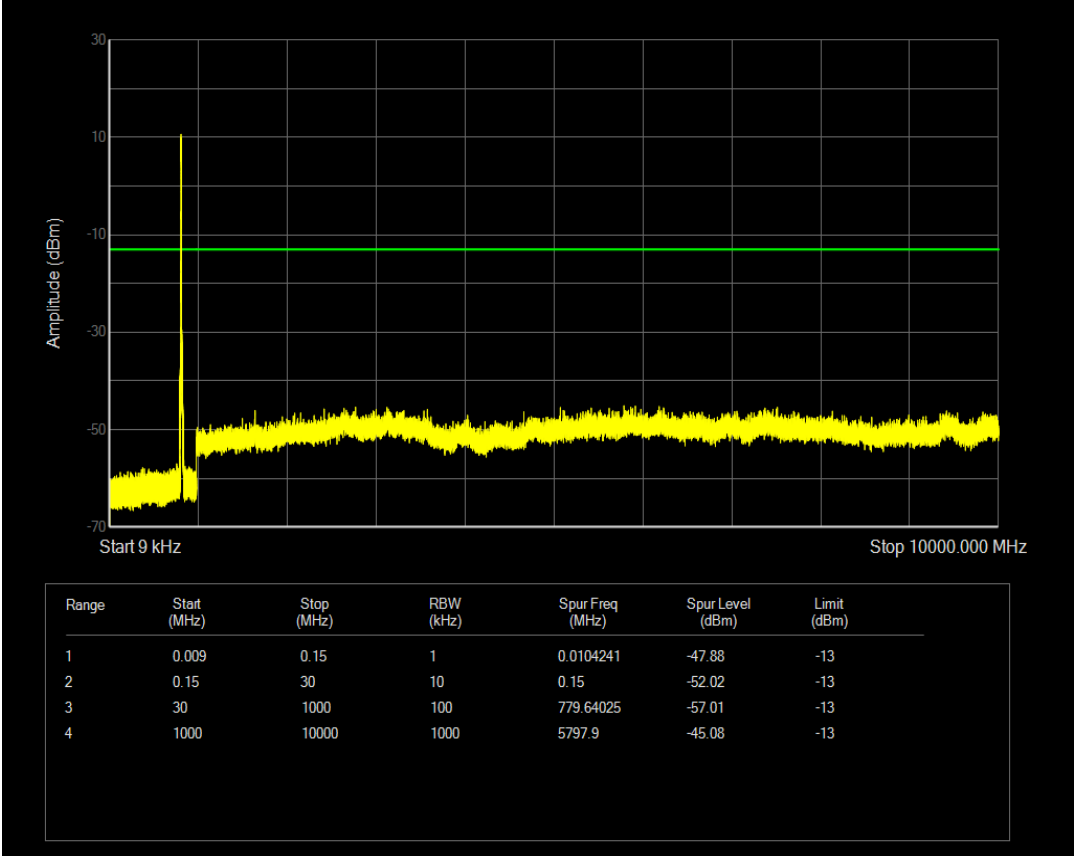
Band5 16QAM BW=1.4MHz Channel=20407 RB Size=6 Position=#0



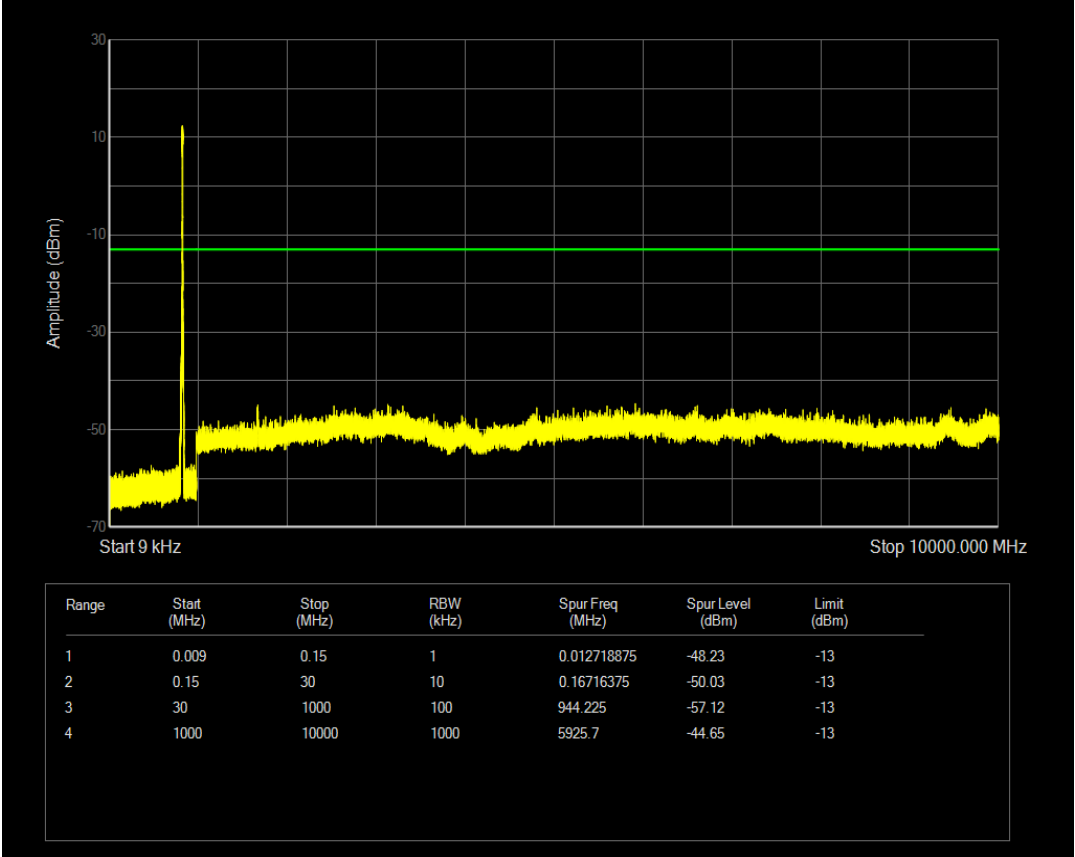
Band5 16QAM BW=1.4MHz Channel=20643 RB Size=6 Position=#0



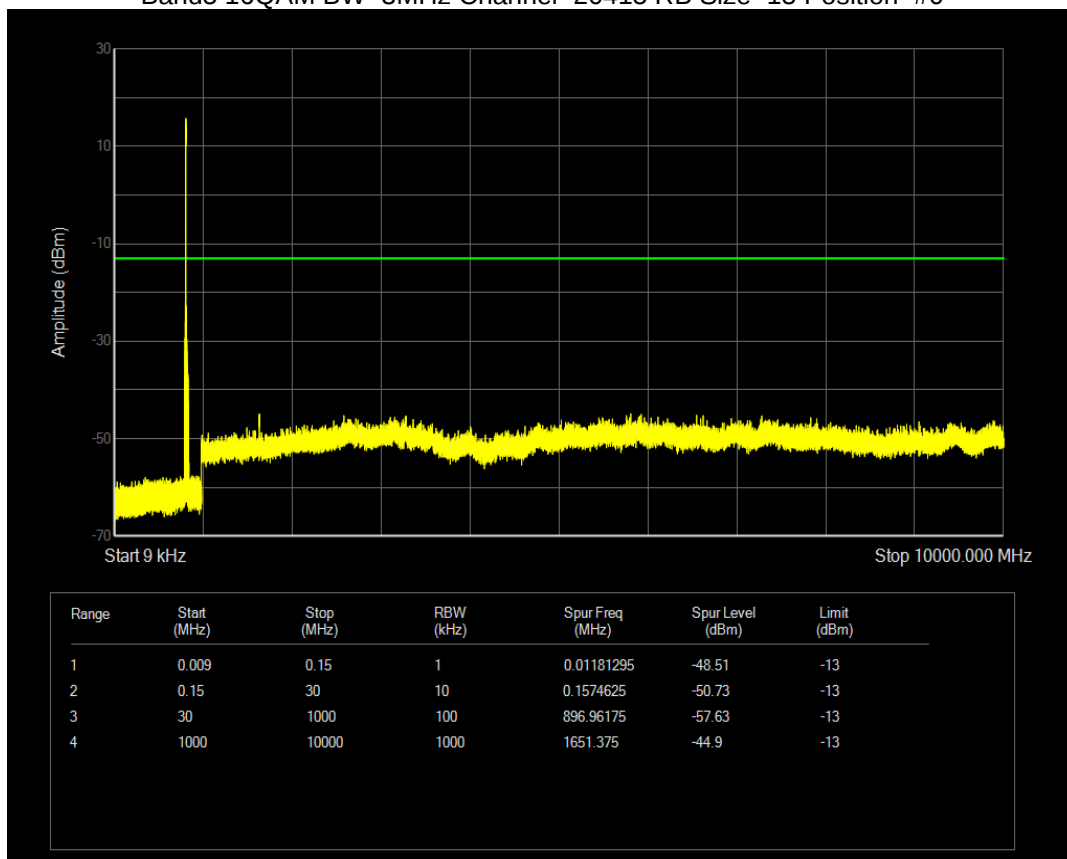
Band5 16QAM BW=10MHz Channel=20450 RB Size=50 Position=#0



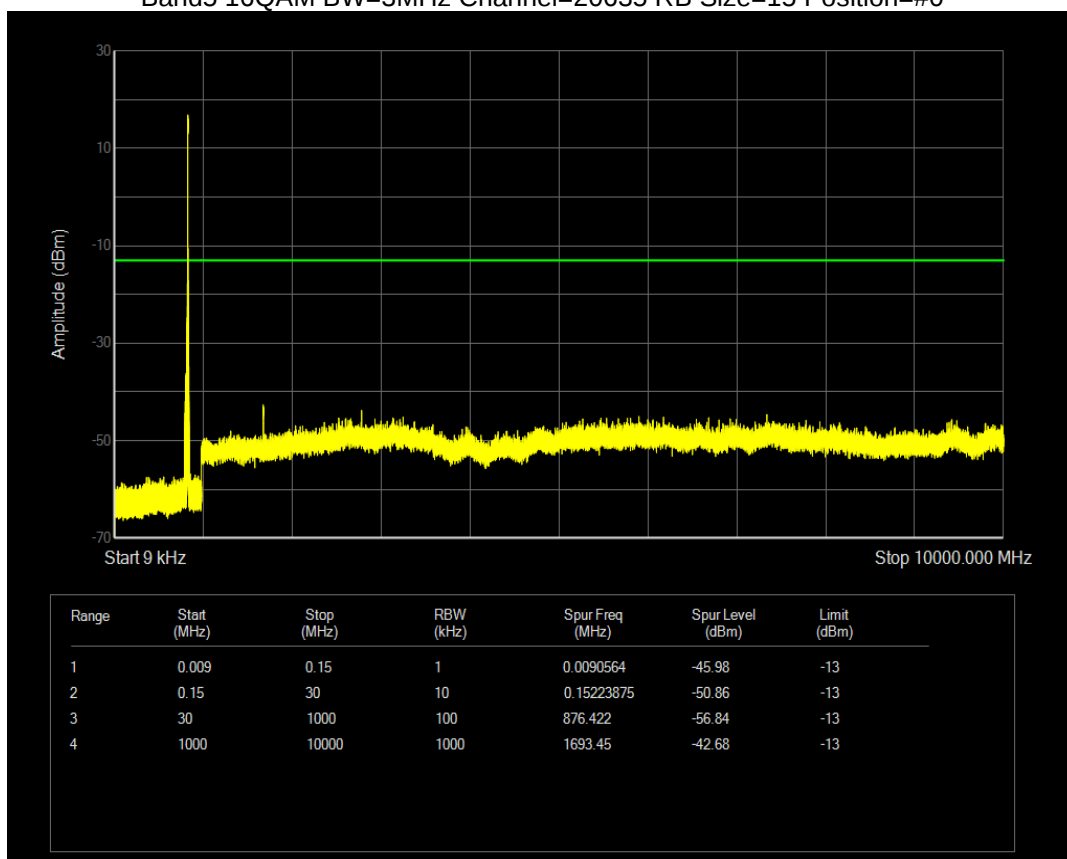
Band5 16QAM BW=10MHz Channel=20600 RB Size=50 Position=#0



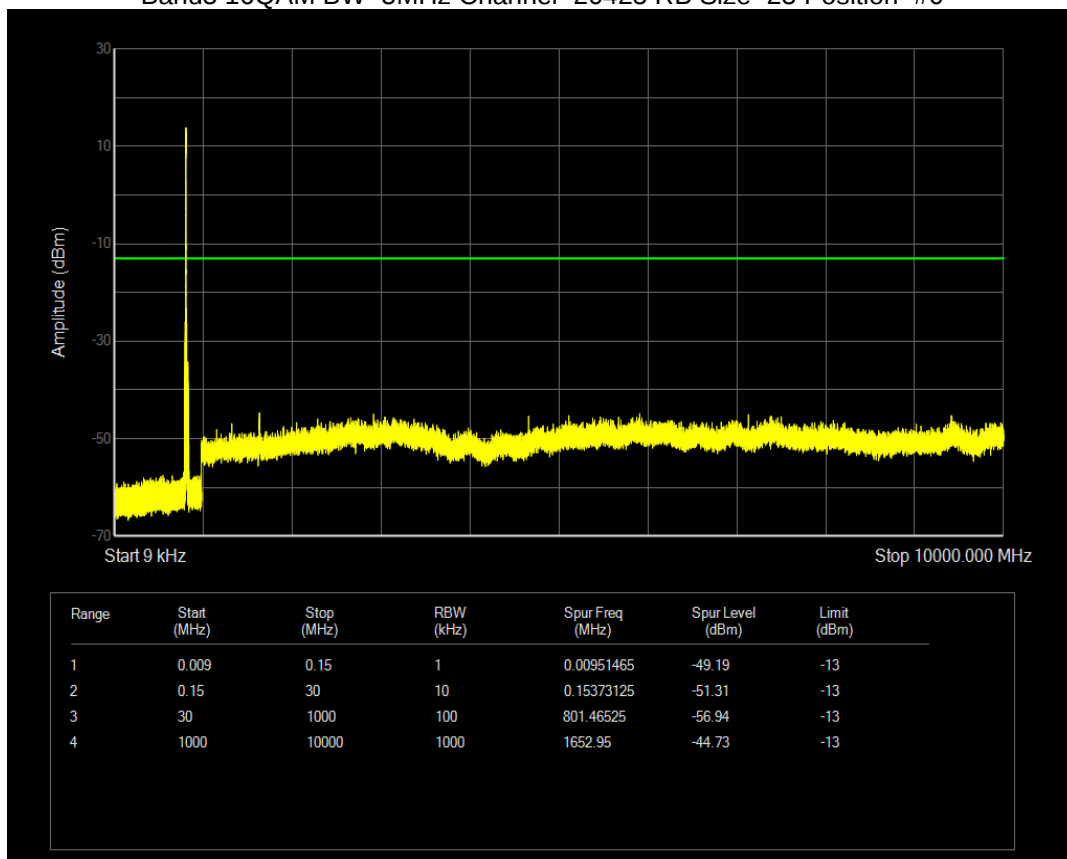
Band5 16QAM BW=3MHz Channel=20415 RB Size=15 Position=#0



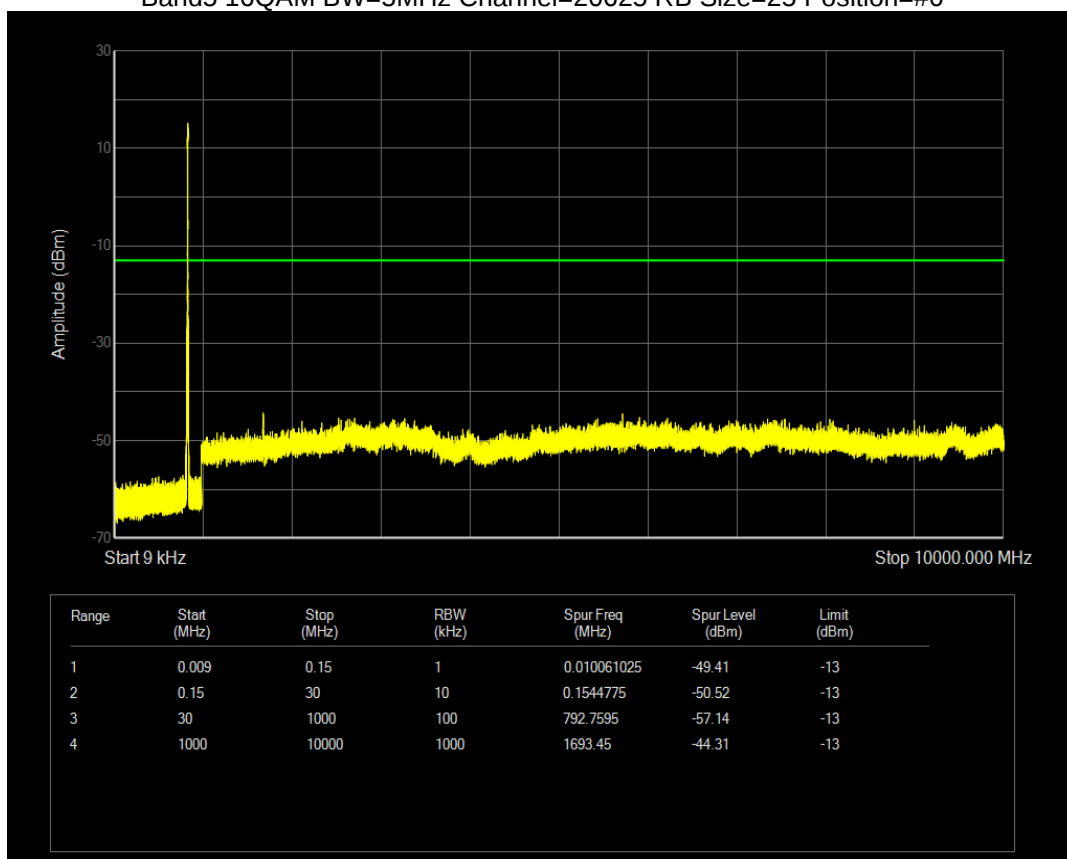
Band5 16QAM BW=3MHz Channel=20635 RB Size=15 Position=#0



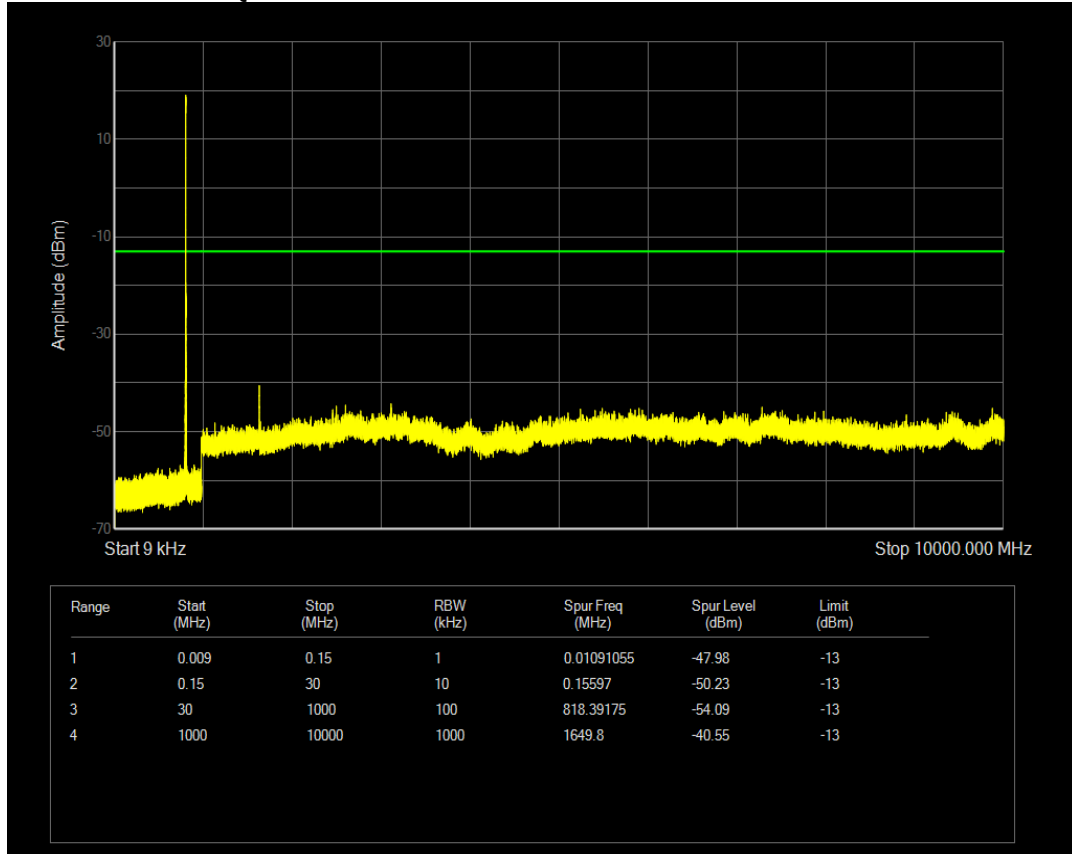
Band5 16QAM BW=5MHz Channel=20425 RB Size=25 Position=#0



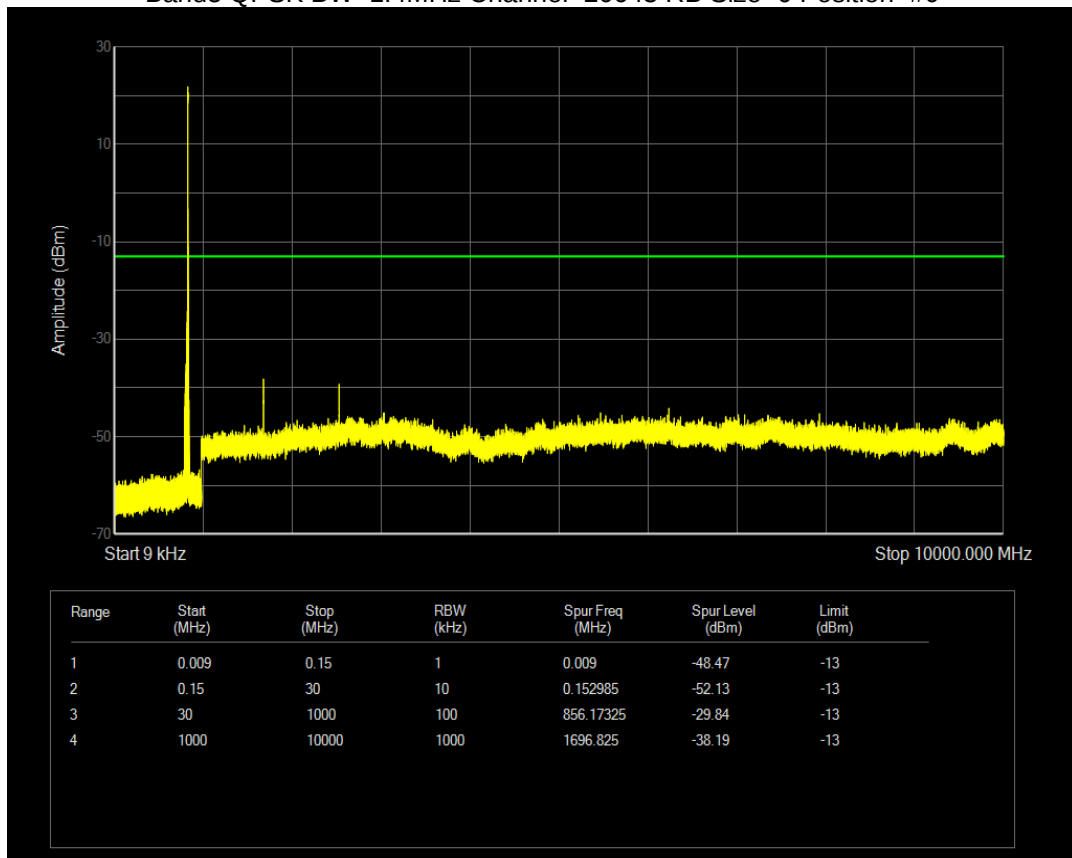
Band5 16QAM BW=5MHz Channel=20625 RB Size=25 Position=#0



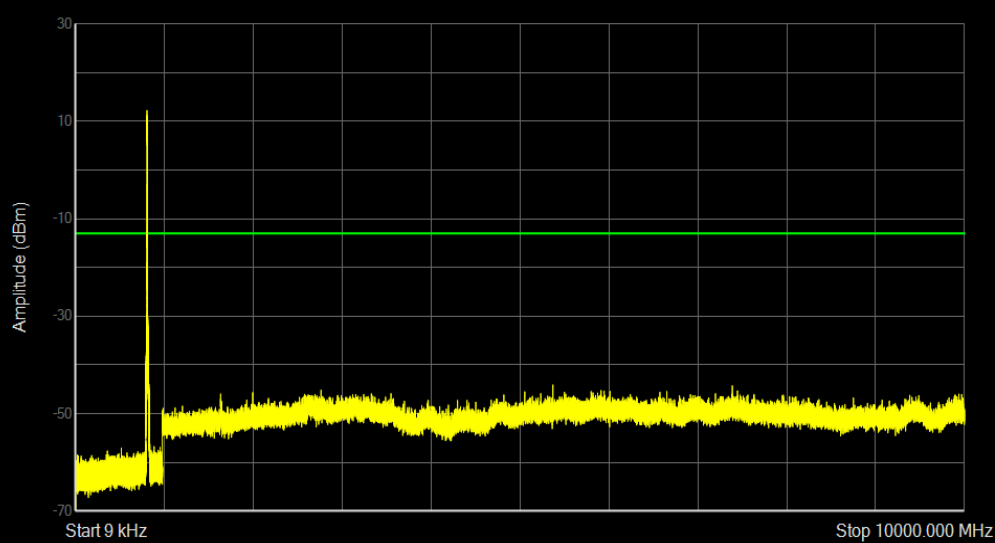
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=6 Position=#0



Band5 QPSK BW=1.4MHz Channel=20643 RB Size=6 Position=#0

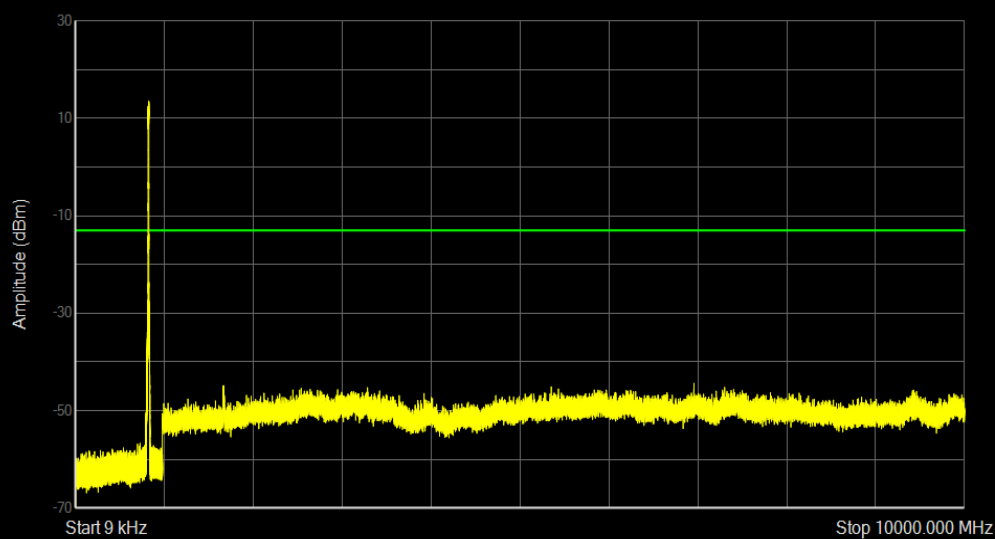


Band5 QPSK BW=10MHz Channel=20450 RB Size=50 Position=#0



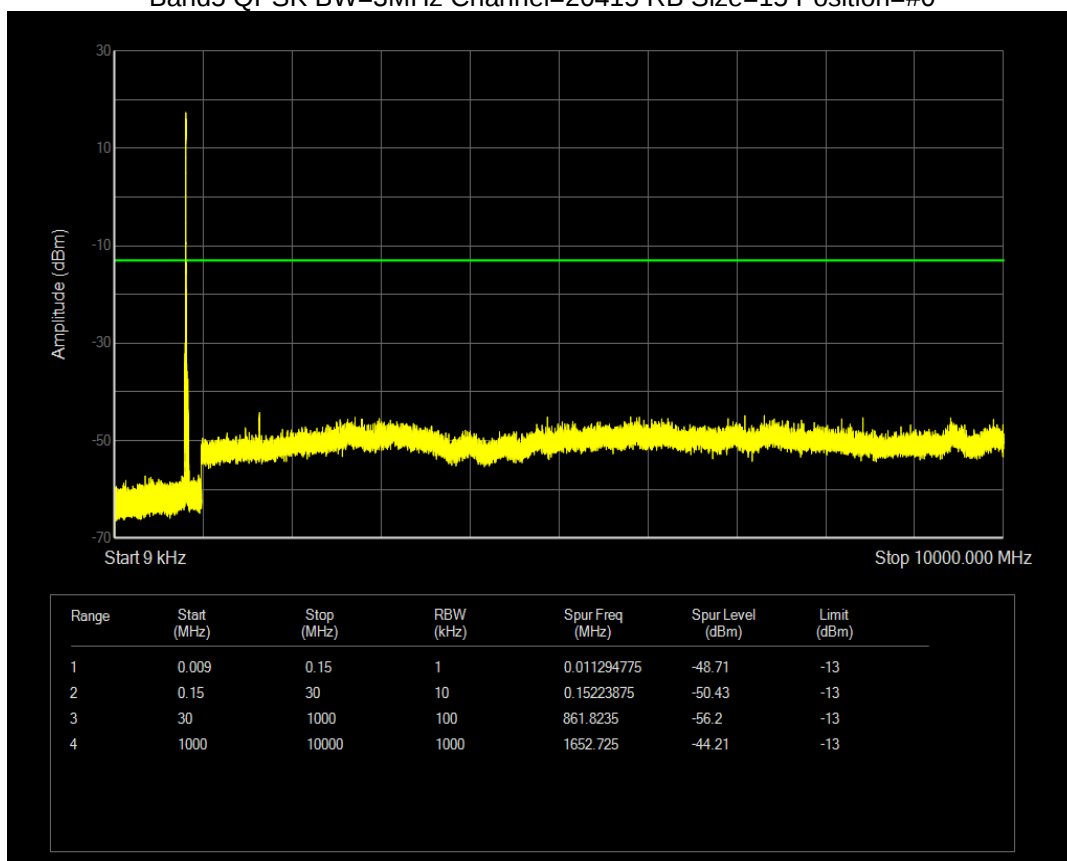
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010237275	-50.77	-13
2	0.15	30	10	0.15	-50.24	-13
3	30	1000	100	907.5105	-56.75	-13
4	1000	10000	1000	5381.425	-44.1	-13

Band5 QPSK BW=10MHz Channel=20600 RB Size=50 Position=#0

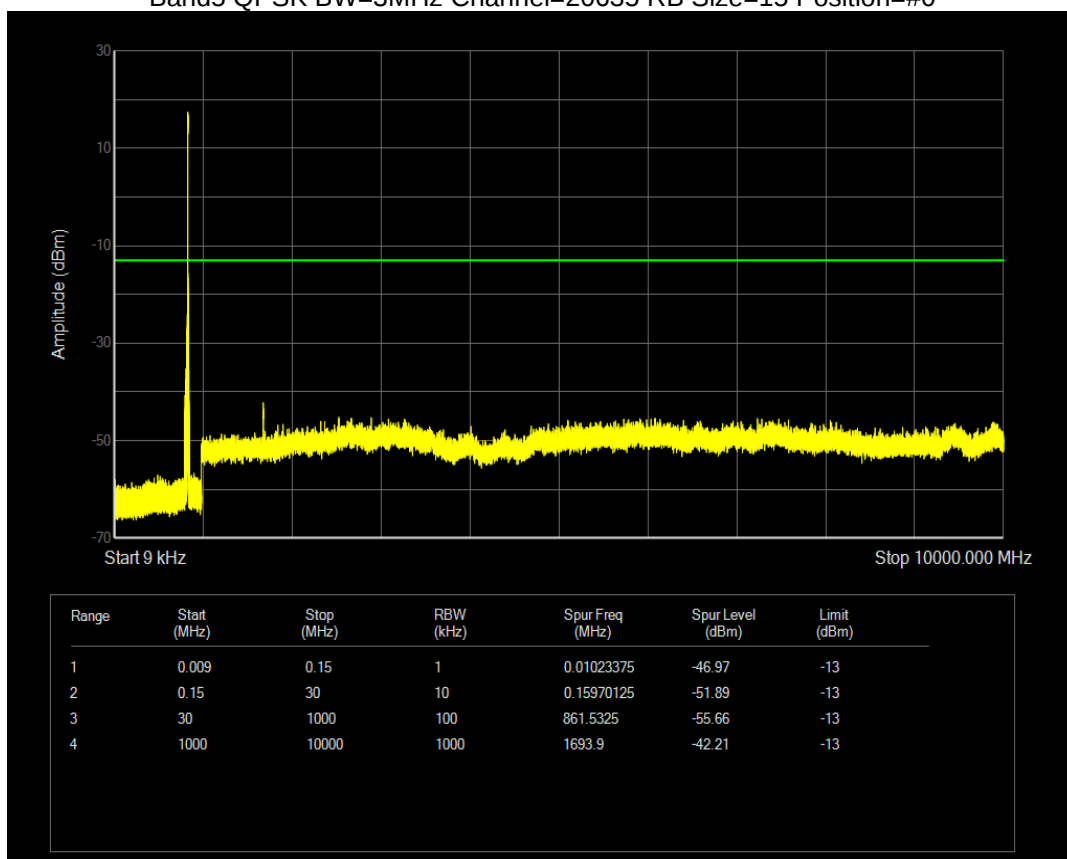


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009673275	-49.61	-13
2	0.15	30	10	0.15522375	-50.25	-13
3	30	1000	100	750.71	-56.71	-13
4	1000	10000	1000	6964.3	-44.38	-13

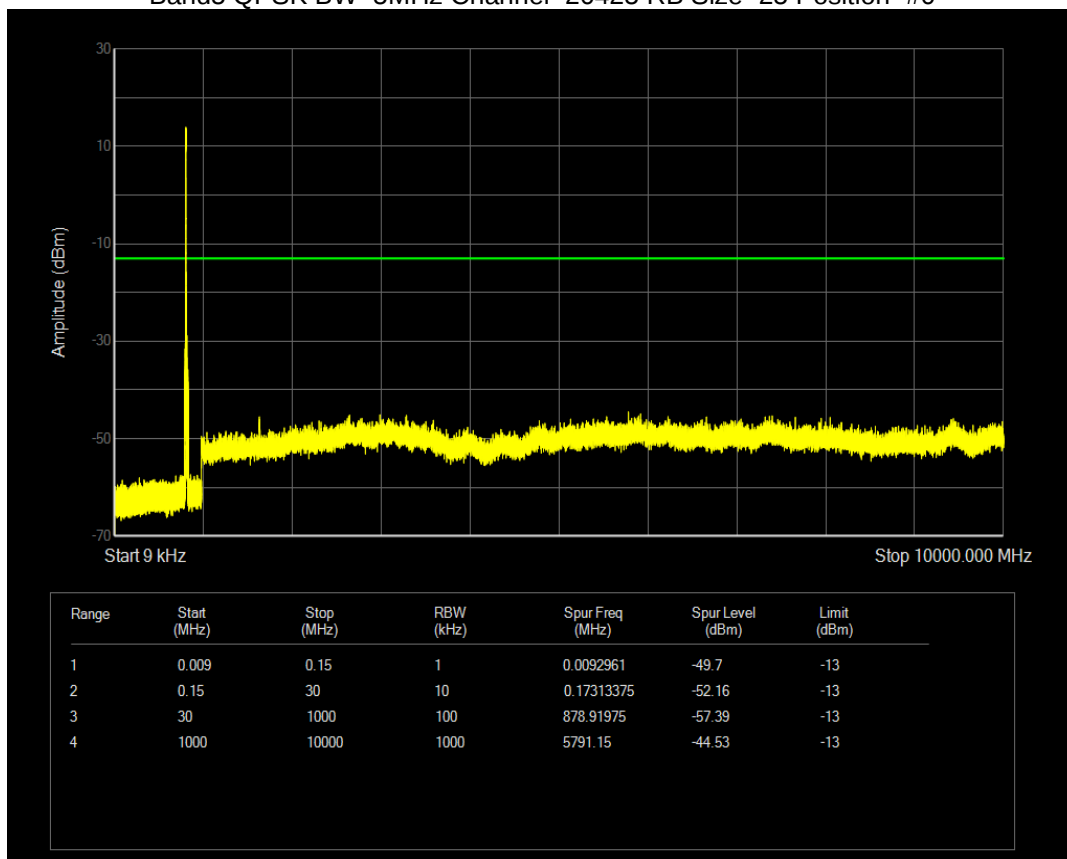
Band5 QPSK BW=3MHz Channel=20415 RB Size=15 Position=#0



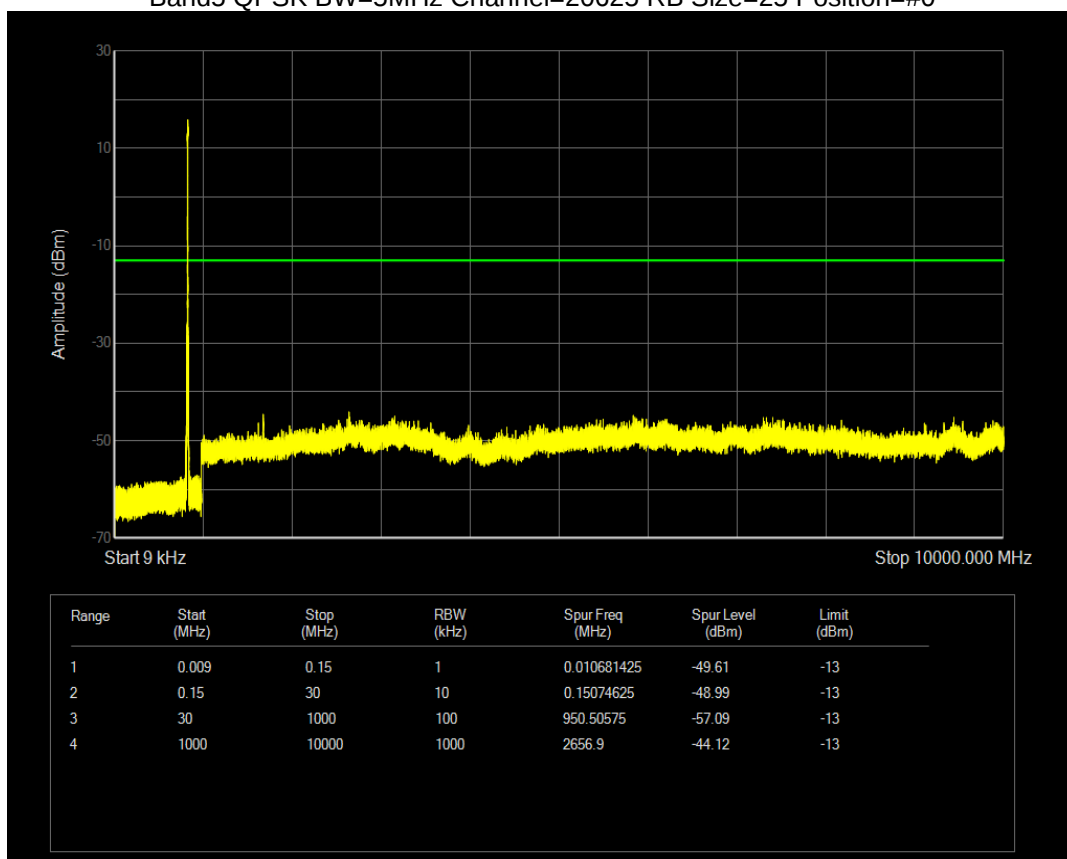
Band5 QPSK BW=3MHz Channel=20635 RB Size=15 Position=#0



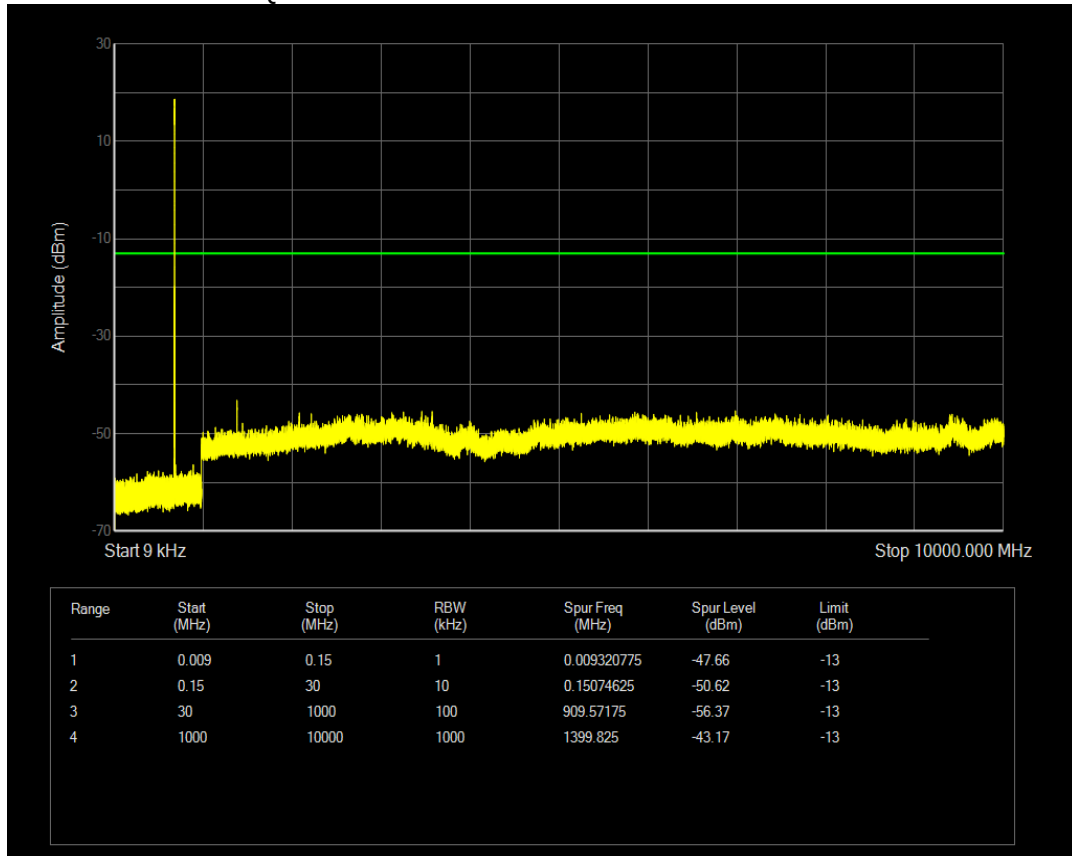
Band5 QPSK BW=5MHz Channel=20425 RB Size=25 Position=#0



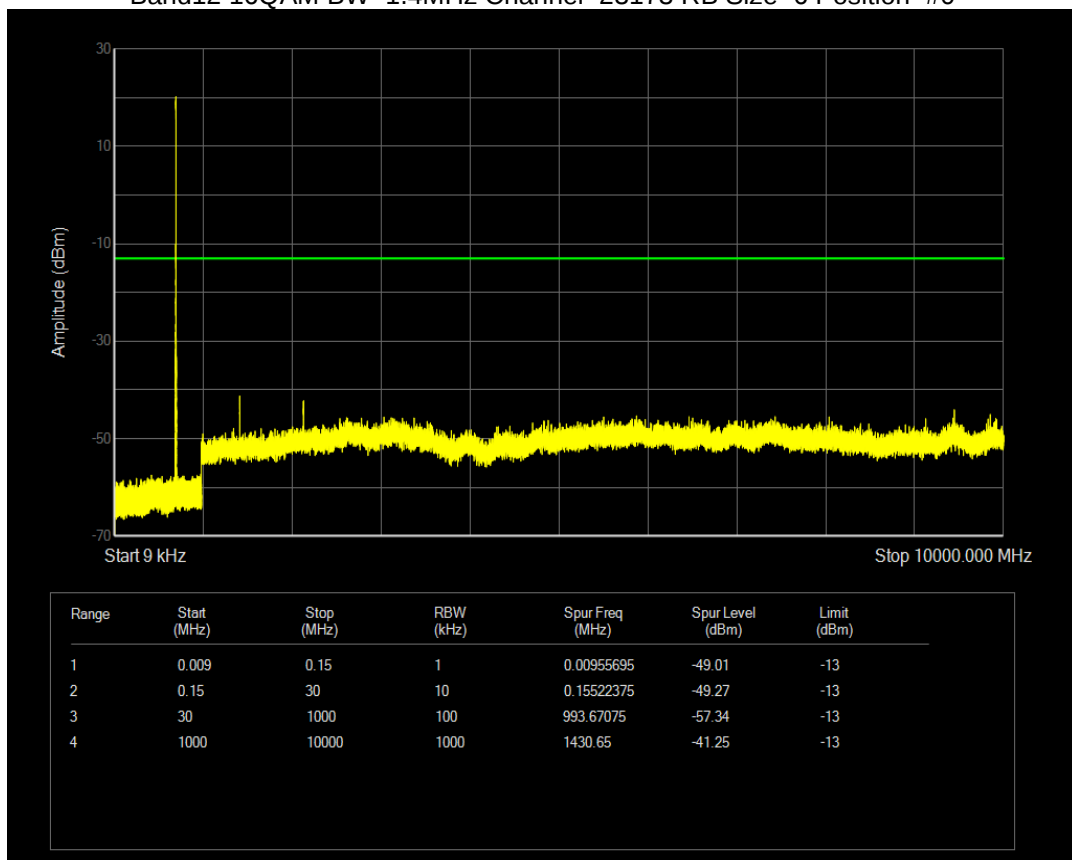
Band5 QPSK BW=5MHz Channel=20625 RB Size=25 Position=#0



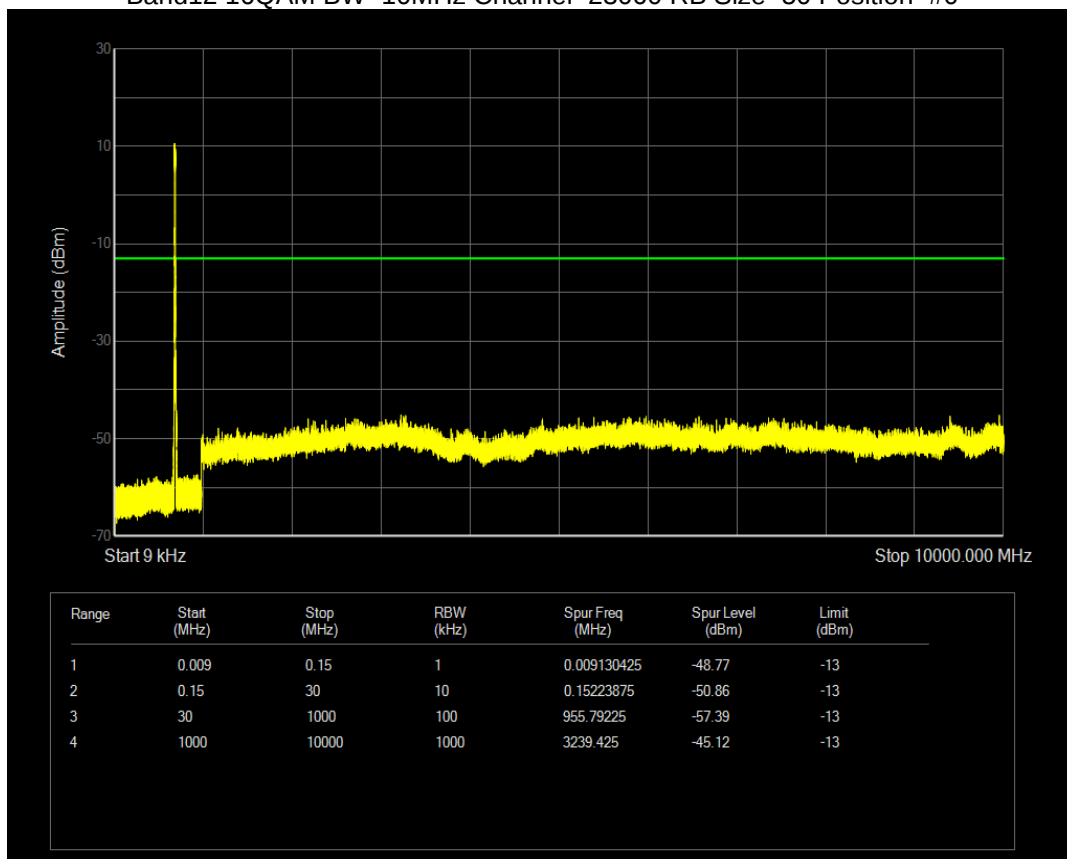
Band12 16QAM BW=1.4MHz Channel=23017 RB Size=6 Position=#0



Band12 16QAM BW=1.4MHz Channel=23173 RB Size=6 Position=#0



Band12 16QAM BW=10MHz Channel=23060 RB Size=50 Position=#0



Band12 16QAM BW=10MHz Channel=23130 RB Size=50 Position=#0

