



RF TEST REPORT

Report No.: SET2020-02978

Product: LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone

FCC ID: SRQZTEA52020

Model No.: ZTE Blade A5 2020, EA52020

Marketing Name: ZTE Blade A5 2020

Applicant: ZTE Corporation.

Address: ZTE Plaza, Keji Road South, Shenzhen, China.

Dates of Testing: 04/01/2020 —04/16/2020

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No. 43 Shahe Road, Xili Street,
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Test Report

Product: LTE/WCDMA/GSM (GPRS) Mutil-Mode Digital Mobile Phone

Brand Name.....: ZTE

Trade Name: ZTE

Applicant: ZTE Corporation.

Applicant Address: ZTE Plaza, Keji Road South, Shenzhen, China

Manufacturer: ZTE Corporation.

Manufacturer Address: ZTE Plaza, Keji Road South, Shenzhen, China

Test Standards: 47 CFR Part 2/27

Test Result.....: PASS

Tested by

Vincent

2020.04.27

Vincent, Test Engineer

Reviewed by.....

Chris You

2020.04.27

Chris You, Senior Engineer

Approved by.....

Shuangwen Zhang

2020.04.27

Shuangwen Zhang, Manager



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Change History		
Issue	Date	Reason for change
1.0	2020.04.27	First edition



1. GENERAL INFORMATION

1.1 EUT Description

EUT Type	LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone
EUT supports Radios application	LTE Band 7
Frequency Range(Tx)	LTE Band 7: 2502.5MHz~2567.5MHz
Maximum Output Power to Antenna	LTE Band 7: 22.16dBm
Bandwidth	LTE Band 7: 5MHz/10MHz/15MHz/20MHz
Modulation Type	QPSK/16QAM/64QAM(downlink only)
Antenna Type	Internal Antenna
Power supply	DC 3.85V from battery



1.2 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

Band	Type of Modulation	BW (MHz)	Emission Designator	Frequency Tolerance	Maximum ERP/EIRP(W)
LTE Band 7	QPSK	5	4M48G7D	—	0.143
LTE Band 7	16QAM	5	4M48W7D	—	0.125
LTE Band 7	QPSK	10	8M93G7D	-0.026	0.145
LTE Band 7	16QAM	10	8M93W7D	—	0.136
LTE Band 7	QPSK	15	13M5G7D	—	0.142
LTE Band 7	16QAM	15	13M5W7D	—	0.127
LTE Band 7	QPSK	20	17M9G7D	—	0.158
LTE Band 7	16QAM	20	17M9W7D	—	0.135



1.3 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2, Part27, for the EUT FCC ID Certification:

1. 47 CFR Part 2/27
2. ANSI/TIA/EIA-603-D-2010
3. FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Limit	Result
1	2.1046	Conducted RF Output Power	Reporting Only	PASS
2	§27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 7)	EIRP < 2Watt	PASS
3	2.1049	Occupied Bandwidth	Reporting Only	PASS
4	2.1051 27.53m(4)	Conducted Band Edge Measurement (Band 7)	Refer to standard 27.53m(4)	PASS
5	2.1051 27.53m(4)	Conducted Spurious Emission Measurement (Band 7)	<55+10log10(P[watt])	PASS
6	2.1053 27.53m(4)	Radiated Spurious Emission (Band 7)	<55+10log10(P[watt])	PASS
7	27.54	Frequency Stability	<2.5ppm	PASS

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



1.4 Test Configuration of Equipment Under Test

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test 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	7			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
26dB and 99% Bandwidth	7			✓	✓	✓	✓	✓	✓			✓		✓	
Conducted Band Edge	7			✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
Conducted Spurious Emission	7			✓	✓	✓	✓	✓		✓			✓	✓	✓
Frequency Stability	7			✓	✓	✓	✓	✓		✓				✓	
ERP/EIRP	7			✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
Radiated Spurious Emission	7	Worst case												✓	

Note:1. The mark “ ✓ ” means that this configuration is chosen for testing.

1.5 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 7dB and 10dB attenuator.

Example:

$$\begin{aligned} \text{Offset (dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 7 + 10 = 17 \text{ (dB)} \end{aligned}$$



1.6 Facilities and Accreditations

1.6.1 Test Facilities

CNAS-Lab Code: L1659

CCIC-SET is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

FCC-Registration No.: CN5031

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN5031, valid time is until Dec. 31, 2020.

ISED Registration: 11185A-1

CAB identifier: CN0064

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Dec. 31, 2020.

NVLAP Lab Code: 201008-0

CCIC-SET is a third party testing organization accredited by NVLAP according to ISO/IEC 17025. The accreditation certificate number is 201008-0.

1.6.2 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15°C - 35°C
Relative Humidity (%):	30% -60%
Atmospheric Pressure (kPa):	86KPa-106KPa

2. 47 CFR PART 2 REQUIREMENTS

2.1 Conducted RF Output Power

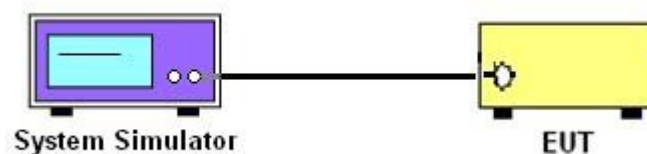
2.1.1 Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

2.1.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.1.3 Test Setup



2.1.4 Test Procedures

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

2.1.5 Test Results

Please refer to Appendix A for detail

2.2 Peak to Average Ratio

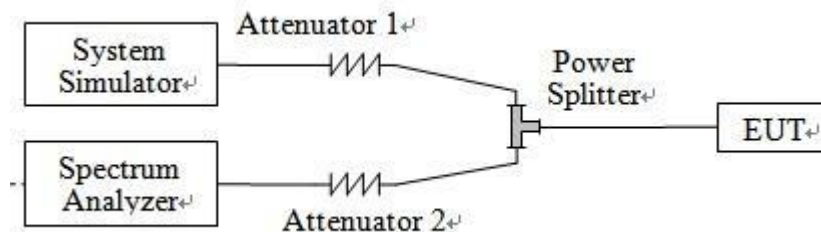
2.2.1 Definition

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

2.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

2.2.3 Test Description



2.2.4 Test Procedures

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.



2.2.5 Test Results of Peak-to-Average Ratio

Please refer to Appendix A for detail

2.3 99% Occupied Bandwidth and 26dB Bandwidth

2.3.1 Definition

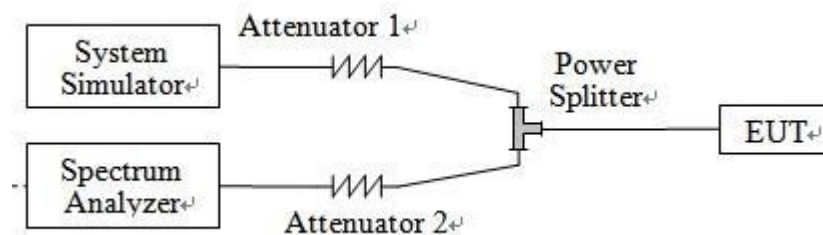
According to FCC section 2.1049, the occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

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.

2.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

2.3.3 Test Setup



2.3.4 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF power with full RB sizes were measured.



2.3.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Please refer to Appendix A for detail

2.4 Frequency Stability

2.4.1 Requirement

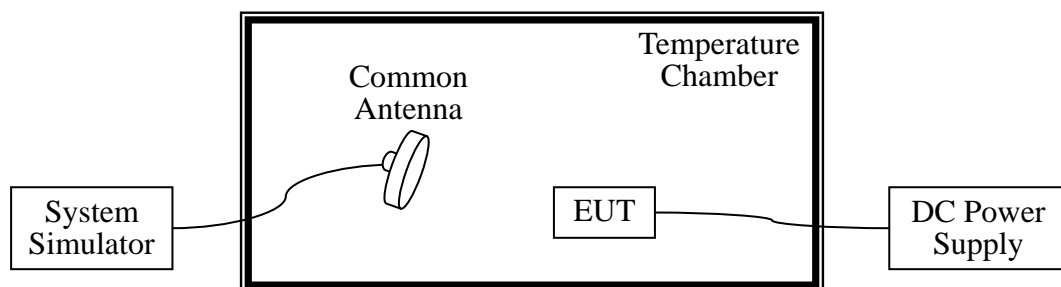
According to FCC requirement, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental 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. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

2.4.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.4.3 Test Setup



2.4.4 Test Procedures

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.
4. The nominal, highest and lowest extreme voltages were tested, which are specified by the applicant; the normal temperature here used is 25°C.
5. The variation in frequency was measured for the worst case.



2.4.5 Test Result of Frequency Stability

Please refer to Appendix A for detail

2.5 Conducted Out of Band Emissions

2.5.1 Requirement

For Band 7:

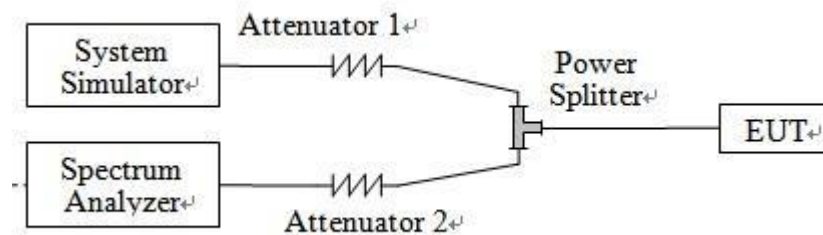
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

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

2.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

2.5.3 Test Setup



2.5.4 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.



6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

7. For Band 7

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

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

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

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

8. For 9KHz to 30MHz: the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



2.5.5 Test Result of Conducted Spurious Emission

Please refer to Appendix A for detail

2.6 Conducted Band Edge

2.6.1 Description of Conducted Band Edge Measurement

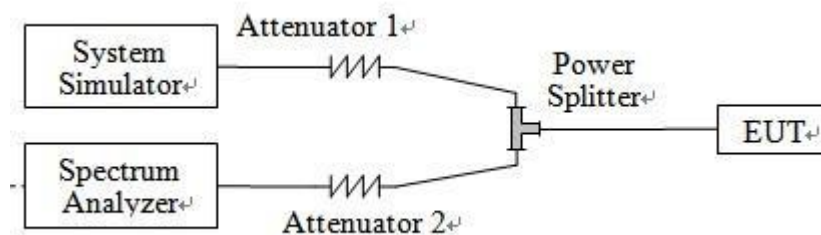
27.53m(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less 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.

2.6.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.6.3 Test Setup



2.6.4 Test Procedures

1. The testing follows FCC KDB 971168 v03r01 Section 6.0.
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.
4. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating



frequency band.

8. Checked that all the results comply with the emission limit line.

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

9. For LTE Band 7 the other 40 dB, and 55 dB have additionally applied same calculation above.

2.6.5 Test Result of Conducted Band Edge

Please refer to Appendix A for detail

2.7 Transmitter Radiated Power (EIRP/ERP)

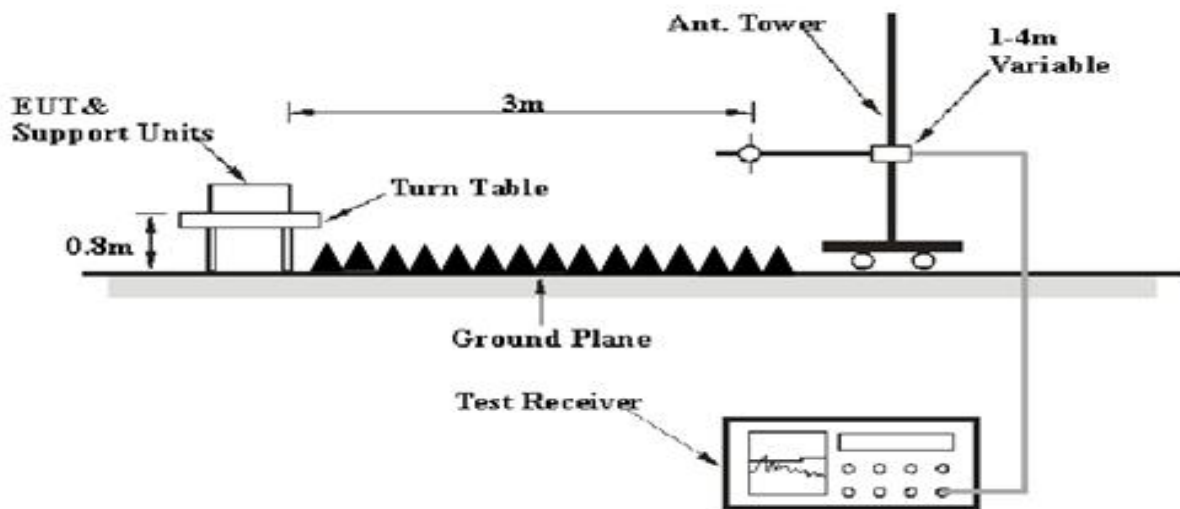
2.7.1 Requirement

Equivalent isotropic radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-D-2010, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03r01. Mobile and portable (hand-held) stations operating are limited to average EIRP of 2 watts with LTE band 7.

2.7.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.7.3 Test Setup





2.7.4 Test Procedures

1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer which used a channel power option across EUT's signal bandwidth per section 4.0 of KDB 971168 D01v03r01.
4. The table was rotated 360 degrees to determine the position of the highest radiated power.
5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
6. Taking the record of maximum ERP/EIRP.
7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
8. The conducted power at the terminal of the dipole antenna is measured.
9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
10. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm): Input power to substitution antenna.

G_s (dBi or dBd): Substitution antenna Gain.

$E_t = R_t + AF$

$E_s = R_s + AF$

AF (dB/m): Receive antenna factor

R_t : The highest received signal in spectrum analyzer for EUT.

R_s : The highest received signal in spectrum analyzer for substitution antenna.

**2.7.5 Test Result of ERP/EIRP**

1. LTE Band 7 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	Verdict
			RB Size	RB Offset			
7	5	QPSK	1	12	2502.5	21.56	PASS
7	5	QPSK	1	0	2535	21.45	PASS
7	5	QPSK	1	24	2567.5	21.20	PASS
7	5	16QAM	1	24	2502.5	20.97	PASS
7	5	16QAM	1	24	2535	20.95	PASS
7	5	16QAM	1	0	2567.5	20.95	PASS
7	10	QPSK	1	24	2505	21.60	PASS
7	10	QPSK	1	49	2535	21.51	PASS
7	10	QPSK	1	24	2565	21.40	PASS
7	10	16QAM	1	24	2505	21.20	PASS
7	10	16QAM	1	49	2535	21.35	PASS
7	10	16QAM	1	24	2565	21.14	PASS
7	15	QPSK	1	37	2507.5	21.53	PASS
7	15	QPSK	1	74	2535	21.45	PASS
7	15	QPSK	1	0	2562.5	21.15	PASS
7	15	16QAM	1	37	2507.5	21.04	PASS
7	15	16QAM	1	18	2535	20.85	PASS
7	15	16QAM	1	0	2562.5	20.02	PASS
7	20	QPSK	1	0	2510	21.91	PASS
7	20	QPSK	1	0	2535	21.74	PASS
7	20	QPSK	1	0	2560	22.00	PASS
7	20	16QAM	1	0	2510	21.23	PASS
7	20	16QAM	1	0	2535	21.31	PASS
7	20	16QAM	1	0	2560	20.85	PASS

2.8 Radiated Out of Band Emissions

2.8.1 Requirement

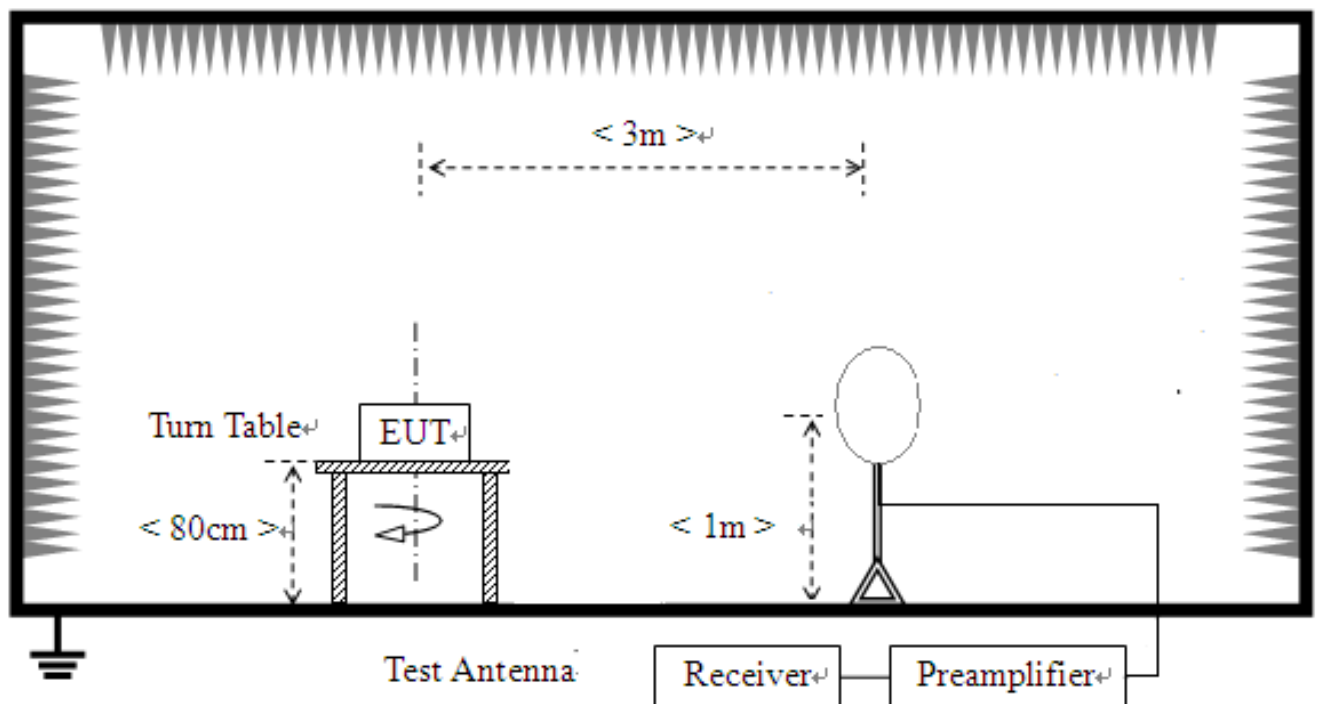
The radiated spurious emission was measured by substitution method according to ANSI / TIA /EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

2.8.2 Measuring Instruments

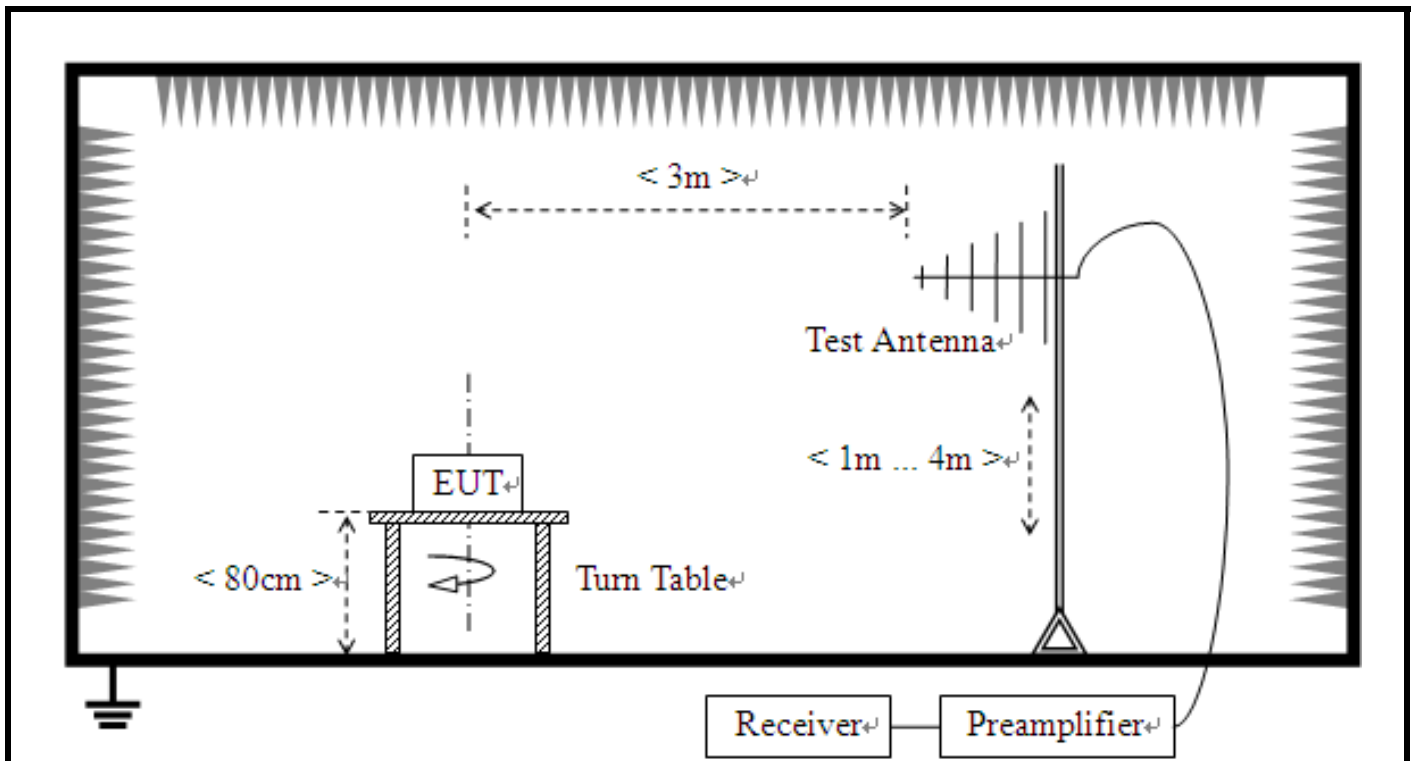
The measuring equipment is listed in the section 3 of this test report.

2.8.3 Test Setup

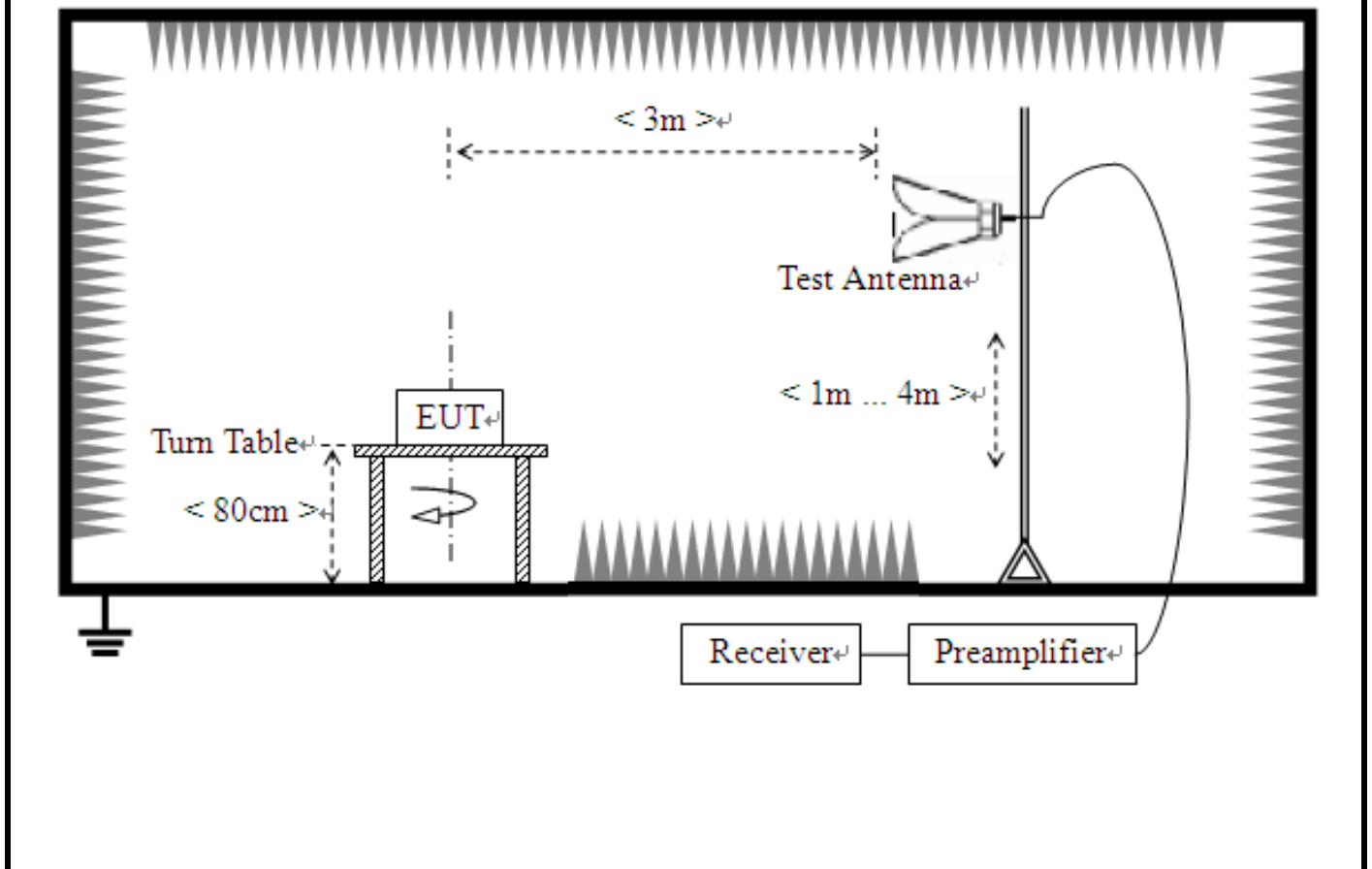
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.8.4 Test Procedures

1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. 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.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm.
11. All Spurious Emission tests were performed in X, Y, Z axis direction and low, middle, high channel. And only the worst axis test condition was recorded in this test report.
12. The spectrum is measured from 9 KHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. The worst case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
13. The maximum RB configurations of the Radiated Spurious Emissions as RB Size 1, RB Offset 0

**2.8.5 Test Result (Plots) of Radiated Spurious Emission**

Note: 1. within 30MHz-1GHz were found more than 20dB below limit line

Note: 2. Absolute Level=Reading Level + Factor

LTE Band 7 QPSK 20MHz BW Middle Channel

NO.	Freq. [MHz]	Reading Level [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-87.01	-65.36	-25.00	40.36	21.65	Horizontal
2	59.1146	-84.83	-66.41	-25.00	41.41	18.42	Horizontal
3	838.4142	-88.88	-55.23	-25.00	30.23	33.65	Horizontal
4	1858.4292	-54.62	-55.37	-25.00	30.37	-0.75	Horizontal
5	6361.6808	-59.36	-44.74	-25.00	19.74	14.62	Horizontal
6	10256.128	-61.71	-37.99	-25.00	12.99	23.72	Horizontal

NO.	Freq. [MHz]	Reading Level [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-87.06	-67.17	-25.00	42.17	19.89	Vertical
2	59.1146	-84.16	-65.11	-25.00	40.11	19.05	Vertical
3	3870.4352	-58.76	-49.01	-25.00	24.01	9.75	Vertical
4	5071.0355	-58.68	-44.67	-25.00	19.67	14.01	Vertical
5	6316.6583	-59.71	-44.67	-25.00	19.67	15.04	Vertical
6	10128.564	-61.37	-38.02	-25.00	13.02	23.35	Vertical



3. LIST OF MEASURING EQUIPMENT

Description	Manufacturer	Model	Serial No.	Cal. Date	Due Date	Remark
EMI Test Receiver	R&S	ESIB26	A0304218	2019.05.20	2020.05.19	Radiation
Loop Antenna	Schwarz beck	HFH2-Z2	100047	2019.04.26	2022.04.25	Radiation
Broadband antenna (30MHz~1GHz)	R&S	HL562	101341	2017.07.14	2020.07.13	Radiation
Broadband antenna (30MHz~1GHz)	R&S	HL562	101339	2017.07.14	2020.07.13	Radiation
Double ridge horn antenna (1GHz~18GHz)	R&S	HF906	100150	2019.04.27	2022.04.26	Radiation
Double ridge horn antenna (1GHz~18GHz)	R&S	HF906	100149	2019.04.17	2022.04.16	Radiation
Horn antenna (18GHz~26.5GHz)	AR	AT4002A	305753	2017.07.12	2020.07.11	Radiation
Horn antenna (18GHz~26.5GHz)	AR	AT4003A	0329293	2018.09.17	2020.09.16	Radiation
Amplifier 1GHz-18GHz	AR	25S1G4AM1	22018	2018.09.17	2020.09.16	Radiation
Amplifier 20M~3GHz	MILMEGA	80RF1000-250	1064573	2017.10.09	2020.10.08	Radiation
Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2019.06.05	2020.06.04	Conducted
LISN	ROHDE&SC HWARZ	ESH2-Z5	A0304221	2019.04.30	2020.04.29	Conducted
Test Receiver	R&S	ESCS30	A0304260	2019.05.25	2020.05.24	Conducted
Temperature chamber	Dongguan gaoda instrument CO.LTD	GD-7005-100	130130101	2019.04.22	2020.04.21	Conducted
Wideband Radio Communication tester	R&S	CMW500	149332	2020.04.07	2021.04.06	Conducted
Power Supply	R&S	NGMO1	101037	2019.08.03	2020.08.02	Conducted



4. UNCERTAINTY OF EVALUATION

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence . The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Emission Measurement (150KHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.6dB
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Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.4dB
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Uncertainty of Radiated Emission Measurement (1GHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.8dB
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**APPENDIX A****Conducted RF (Average) Output Power****Test Result and Data**

Conducted Output Power NormalTC_NormalVol							
Band	Range	BandWidth	RB size/offset	Frequency (MHz)	Modulation	Power (dBm)	Result
FDD07	LowRange	5	OneRB_high	2502.5	QPSK	21.64	Pass
FDD07	LowRange	5	OneRB_high	2502.5	Q16	19.97	Pass
FDD07	LowRange	5	OneRB_low	2502.5	QPSK	21.76	Pass
FDD07	LowRange	5	OneRB_low	2502.5	Q16	20.02	Pass
FDD07	LowRange	5	OneRB_middle	2502.5	QPSK	21.67	Pass
FDD07	LowRange	5	OneRB_middle	2502.5	Q16	19.92	Pass
FDD07	LowRange	5	HalfRB_low	2502.5	QPSK	20.70	Pass
FDD07	LowRange	5	HalfRB_low	2502.5	Q16	19.73	Pass
FDD07	LowRange	5	HalfRB_middle	2502.5	QPSK	20.70	Pass
FDD07	LowRange	5	HalfRB_middle	2502.5	Q16	19.80	Pass
FDD07	LowRange	5	HalfRB_high	2502.5	QPSK	20.70	Pass
FDD07	LowRange	5	HalfRB_high	2502.5	Q16	19.69	Pass
FDD07	LowRange	5	fullRB	2502.5	QPSK	20.75	Pass
FDD07	LowRange	5	fullRB	2502.5	Q16	19.83	Pass
FDD07	LowRange	10	OneRB_high	2505	QPSK	21.78	Pass
FDD07	LowRange	10	OneRB_high	2505	Q16	20.24	Pass
FDD07	LowRange	10	OneRB_low	2505	QPSK	21.88	Pass
FDD07	LowRange	10	OneRB_low	2505	Q16	20.30	Pass
FDD07	LowRange	10	OneRB_middle	2505	QPSK	21.79	Pass
FDD07	LowRange	10	OneRB_middle	2505	Q16	20.25	Pass
FDD07	LowRange	10	HalfRB_low	2505	QPSK	20.79	Pass
FDD07	LowRange	10	HalfRB_low	2505	Q16	19.85	Pass
FDD07	LowRange	10	HalfRB_middle	2505	QPSK	20.73	Pass
FDD07	LowRange	10	HalfRB_middle	2505	Q16	19.85	Pass
FDD07	LowRange	10	HalfRB_high	2505	QPSK	20.64	Pass



FDD07	LowRange	10	HalfRB_high	2505	Q16	19.86	Pass
FDD07	LowRange	10	fullRB	2505	QPSK	20.64	Pass
FDD07	LowRange	10	fullRB	2505	Q16	19.77	Pass
FDD07	LowRange	15	OneRB_high	2507.5	QPSK	21.84	Pass
FDD07	LowRange	15	OneRB_high	2507.5	Q16	21.24	Pass
FDD07	LowRange	15	OneRB_low	2507.5	QPSK	21.82	Pass
FDD07	LowRange	15	OneRB_low	2507.5	Q16	21.16	Pass
FDD07	LowRange	15	OneRB_middle	2507.5	QPSK	21.74	Pass
FDD07	LowRange	15	OneRB_middle	2507.5	Q16	21.10	Pass
FDD07	LowRange	15	HalfRB_low	2507.5	QPSK	21.18	Pass
FDD07	LowRange	15	HalfRB_low	2507.5	Q16	21.16	Pass
FDD07	LowRange	15	HalfRB_middle	2507.5	QPSK	21.17	Pass
FDD07	LowRange	15	HalfRB_middle	2507.5	Q16	21.17	Pass
FDD07	LowRange	15	HalfRB_high	2507.5	QPSK	21.23	Pass
FDD07	LowRange	15	HalfRB_high	2507.5	Q16	21.23	Pass
FDD07	LowRange	15	fullRB	2507.5	QPSK	20.65	Pass
FDD07	LowRange	15	fullRB	2507.5	Q16	19.77	Pass
FDD07	LowRange	20	OneRB_high	2510	QPSK	21.88	Pass
FDD07	LowRange	20	OneRB_high	2510	Q16	21.32	Pass
FDD07	LowRange	20	OneRB_low	2510	QPSK	21.92	Pass
FDD07	LowRange	20	OneRB_low	2510	Q16	21.35	Pass
FDD07	LowRange	20	OneRB_middle	2510	QPSK	21.84	Pass
FDD07	LowRange	20	OneRB_middle	2510	Q16	21.32	Pass
FDD07	LowRange	20	HalfRB_low	2510	QPSK	20.59	Pass
FDD07	LowRange	20	HalfRB_low	2510	Q16	19.69	Pass
FDD07	LowRange	20	HalfRB_middle	2510	QPSK	20.61	Pass
FDD07	LowRange	20	HalfRB_middle	2510	Q16	19.69	Pass
FDD07	LowRange	20	HalfRB_high	2510	QPSK	20.79	Pass
FDD07	LowRange	20	HalfRB_high	2510	Q16	19.88	Pass
FDD07	LowRange	20	fullRB	2510	QPSK	20.57	Pass
FDD07	LowRange	20	fullRB	2510	Q16	19.77	Pass
FDD07	MidRange	5	OneRB_high	2535	QPSK	21.90	Pass



FDD07	MidRange	5	OneRB_high	2535	Q16	20.68	Pass
FDD07	MidRange	5	OneRB_low	2535	QPSK	21.94	Pass
FDD07	MidRange	5	OneRB_low	2535	Q16	20.66	Pass
FDD07	MidRange	5	OneRB_middle	2535	QPSK	21.94	Pass
FDD07	MidRange	5	OneRB_middle	2535	Q16	20.72	Pass
FDD07	MidRange	5	HalfRB_low	2535	QPSK	20.84	Pass
FDD07	MidRange	5	HalfRB_low	2535	Q16	19.79	Pass
FDD07	MidRange	5	HalfRB_middle	2535	QPSK	20.81	Pass
FDD07	MidRange	5	HalfRB_middle	2535	Q16	19.79	Pass
FDD07	MidRange	5	HalfRB_high	2535	QPSK	20.90	Pass
FDD07	MidRange	5	HalfRB_high	2535	Q16	19.73	Pass
FDD07	MidRange	5	fullRB	2535	QPSK	20.76	Pass
FDD07	MidRange	5	fullRB	2535	Q16	19.82	Pass
FDD07	MidRange	10	OneRB_high	2535	QPSK	21.75	Pass
FDD07	MidRange	10	OneRB_high	2535	Q16	21.20	Pass
FDD07	MidRange	10	OneRB_low	2535	QPSK	21.81	Pass
FDD07	MidRange	10	OneRB_low	2535	Q16	21.25	Pass
FDD07	MidRange	10	OneRB_middle	2535	QPSK	21.74	Pass
FDD07	MidRange	10	OneRB_middle	2535	Q16	21.28	Pass
FDD07	MidRange	10	HalfRB_low	2535	QPSK	20.81	Pass
FDD07	MidRange	10	HalfRB_low	2535	Q16	19.89	Pass
FDD07	MidRange	10	HalfRB_middle	2535	QPSK	20.84	Pass
FDD07	MidRange	10	HalfRB_middle	2535	Q16	19.89	Pass
FDD07	MidRange	10	HalfRB_high	2535	QPSK	20.85	Pass
FDD07	MidRange	10	HalfRB_high	2535	Q16	19.88	Pass
FDD07	MidRange	10	fullRB	2535	QPSK	20.83	Pass
FDD07	MidRange	10	fullRB	2535	Q16	19.99	Pass
FDD07	MidRange	15	OneRB_high	2535	QPSK	21.73	Pass
FDD07	MidRange	15	OneRB_high	2535	Q16	21.15	Pass
FDD07	MidRange	15	OneRB_low	2535	QPSK	21.70	Pass
FDD07	MidRange	15	OneRB_low	2535	Q16	21.17	Pass
FDD07	MidRange	15	OneRB_middle	2535	QPSK	21.82	Pass



FDD07	MidRange	15	OneRB_middle	2535	Q16	21.28	Pass
FDD07	MidRange	15	HalfRB_low	2535	QPSK	21.15	Pass
FDD07	MidRange	15	HalfRB_low	2535	Q16	21.19	Pass
FDD07	MidRange	15	HalfRB_middle	2535	QPSK	21.20	Pass
FDD07	MidRange	15	HalfRB_middle	2535	Q16	21.20	Pass
FDD07	MidRange	15	HalfRB_high	2535	QPSK	21.20	Pass
FDD07	MidRange	15	HalfRB_high	2535	Q16	21.17	Pass
FDD07	MidRange	15	fullRB	2535	QPSK	20.82	Pass
FDD07	MidRange	15	fullRB	2535	Q16	19.96	Pass
FDD07	MidRange	20	OneRB_high	2535	QPSK	22.06	Pass
FDD07	MidRange	20	OneRB_high	2535	Q16	20.67	Pass
FDD07	MidRange	20	OneRB_low	2535	QPSK	22.11	Pass
FDD07	MidRange	20	OneRB_low	2535	Q16	20.80	Pass
FDD07	MidRange	20	OneRB_middle	2535	QPSK	22.16	Pass
FDD07	MidRange	20	OneRB_middle	2535	Q16	20.72	Pass
FDD07	MidRange	20	HalfRB_low	2535	QPSK	20.82	Pass
FDD07	MidRange	20	HalfRB_low	2535	Q16	19.96	Pass
FDD07	MidRange	20	HalfRB_middle	2535	QPSK	20.86	Pass
FDD07	MidRange	20	HalfRB_middle	2535	Q16	19.97	Pass
FDD07	MidRange	20	HalfRB_high	2535	QPSK	20.74	Pass
FDD07	MidRange	20	HalfRB_high	2535	Q16	19.97	Pass
FDD07	MidRange	20	fullRB	2535	QPSK	20.75	Pass
FDD07	MidRange	20	fullRB	2535	Q16	19.90	Pass
FDD07	HighRange	5	OneRB_high	2567.5	QPSK	21.80	Pass
FDD07	HighRange	5	OneRB_high	2567.5	Q16	20.56	Pass
FDD07	HighRange	5	OneRB_low	2567.5	QPSK	21.81	Pass
FDD07	HighRange	5	OneRB_low	2567.5	Q16	20.56	Pass
FDD07	HighRange	5	OneRB_middle	2567.5	QPSK	21.82	Pass
FDD07	HighRange	5	OneRB_middle	2567.5	Q16	20.58	Pass
FDD07	HighRange	5	HalfRB_low	2567.5	QPSK	20.68	Pass
FDD07	HighRange	5	HalfRB_low	2567.5	Q16	19.68	Pass
FDD07	HighRange	5	HalfRB_middle	2567.5	QPSK	20.70	Pass



FDD07	HighRange	5	HalfRB_middle	2567.5	Q16	19.68	Pass
FDD07	HighRange	5	HalfRB_high	2567.5	QPSK	20.67	Pass
FDD07	HighRange	5	HalfRB_high	2567.5	Q16	19.64	Pass
FDD07	HighRange	5	fullRB	2567.5	QPSK	20.61	Pass
FDD07	HighRange	5	fullRB	2567.5	Q16	19.76	Pass
FDD07	HighRange	10	OneRB_high	2565	QPSK	21.72	Pass
FDD07	HighRange	10	OneRB_high	2565	Q16	20.43	Pass
FDD07	HighRange	10	OneRB_low	2565	QPSK	21.82	Pass
FDD07	HighRange	10	OneRB_low	2565	Q16	20.62	Pass
FDD07	HighRange	10	OneRB_middle	2565	QPSK	21.76	Pass
FDD07	HighRange	10	OneRB_middle	2565	Q16	20.54	Pass
FDD07	HighRange	10	HalfRB_low	2565	QPSK	20.80	Pass
FDD07	HighRange	10	HalfRB_low	2565	Q16	20.02	Pass
FDD07	HighRange	10	HalfRB_middle	2565	QPSK	20.82	Pass
FDD07	HighRange	10	HalfRB_middle	2565	Q16	20.04	Pass
FDD07	HighRange	10	HalfRB_high	2565	QPSK	20.64	Pass
FDD07	HighRange	10	HalfRB_high	2565	Q16	19.98	Pass
FDD07	HighRange	10	fullRB	2565	QPSK	20.82	Pass
FDD07	HighRange	10	fullRB	2565	Q16	19.93	Pass
FDD07	HighRange	15	OneRB_high	2562.5	QPSK	21.61	Pass
FDD07	HighRange	15	OneRB_high	2562.5	Q16	20.88	Pass
FDD07	HighRange	15	OneRB_low	2562.5	QPSK	21.72	Pass
FDD07	HighRange	15	OneRB_low	2562.5	Q16	21.00	Pass
FDD07	HighRange	15	OneRB_middle	2562.5	QPSK	21.66	Pass
FDD07	HighRange	15	OneRB_middle	2562.5	Q16	20.93	Pass
FDD07	HighRange	15	HalfRB_low	2562.5	QPSK	20.97	Pass
FDD07	HighRange	15	HalfRB_low	2562.5	Q16	20.97	Pass
FDD07	HighRange	15	HalfRB_middle	2562.5	QPSK	20.97	Pass
FDD07	HighRange	15	HalfRB_middle	2562.5	Q16	21.01	Pass
FDD07	HighRange	15	HalfRB_high	2562.5	QPSK	20.90	Pass
FDD07	HighRange	15	HalfRB_high	2562.5	Q16	20.86	Pass
FDD07	HighRange	15	fullRB	2562.5	QPSK	20.77	Pass



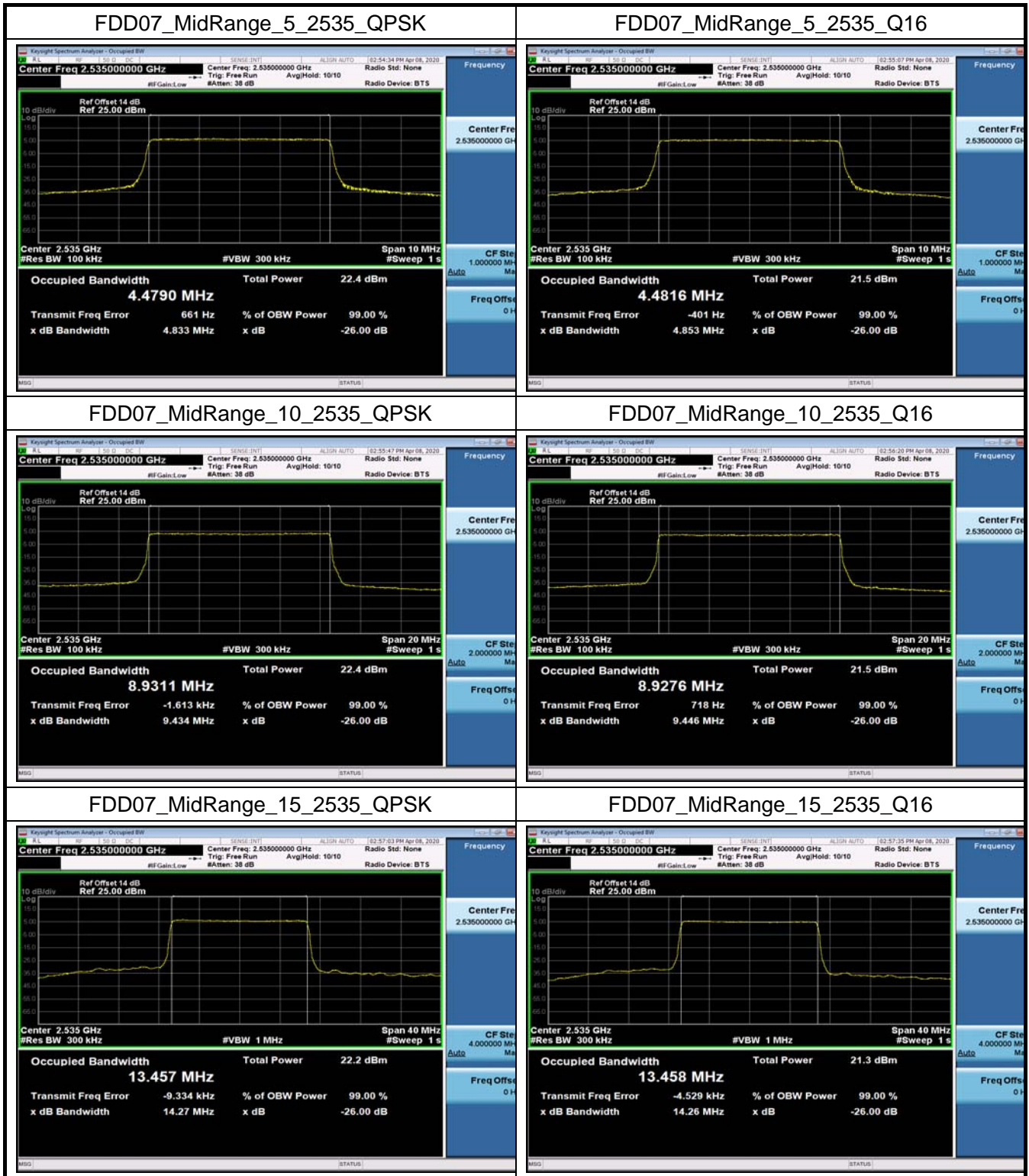
FDD07	HighRange	15	fullRB	2562.5	Q16	19.84	Pass
FDD07	HighRange	20	OneRB_high	2560	QPSK	21.74	Pass
FDD07	HighRange	20	OneRB_high	2560	Q16	21.36	Pass
FDD07	HighRange	20	OneRB_low	2560	QPSK	21.90	Pass
FDD07	HighRange	20	OneRB_low	2560	Q16	21.66	Pass
FDD07	HighRange	20	OneRB_middle	2560	QPSK	21.81	Pass
FDD07	HighRange	20	OneRB_middle	2560	Q16	21.45	Pass
FDD07	HighRange	20	HalfRB_low	2560	QPSK	20.77	Pass
FDD07	HighRange	20	HalfRB_low	2560	Q16	19.87	Pass
FDD07	HighRange	20	HalfRB_middle	2560	QPSK	20.78	Pass
FDD07	HighRange	20	HalfRB_middle	2560	Q16	19.87	Pass
FDD07	HighRange	20	HalfRB_high	2560	QPSK	20.69	Pass
FDD07	HighRange	20	HalfRB_high	2560	Q16	19.82	Pass
FDD07	HighRange	20	fullRB	2560	QPSK	20.82	Pass
FDD07	HighRange	20	fullRB	2560	Q16	19.94	Pass

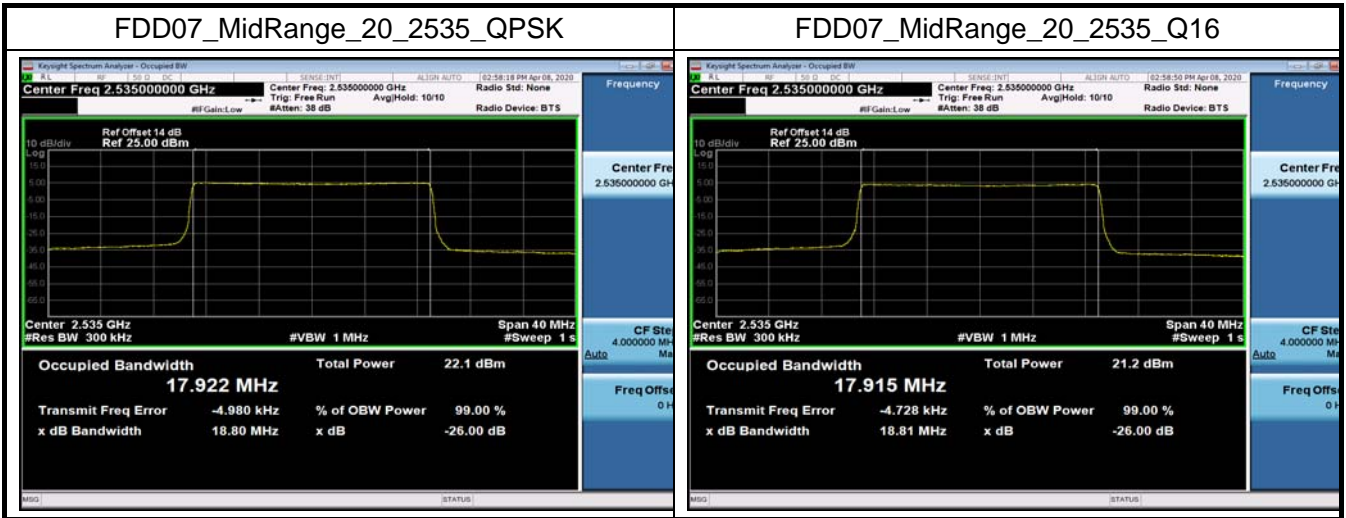


99% Occupied Bandwidth

Test Result and Data

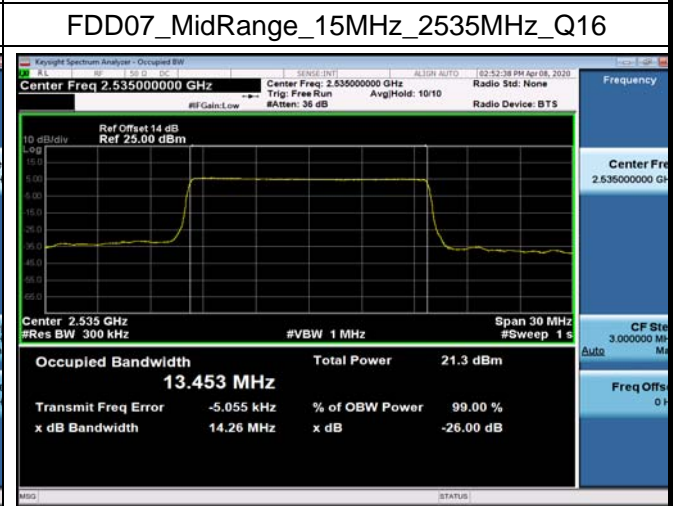
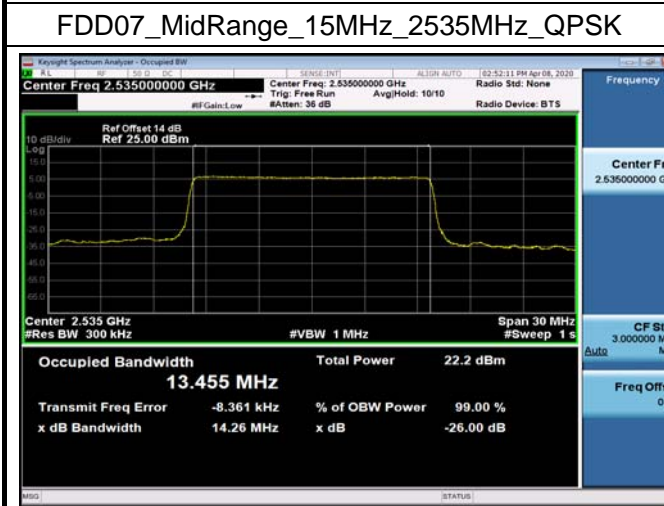
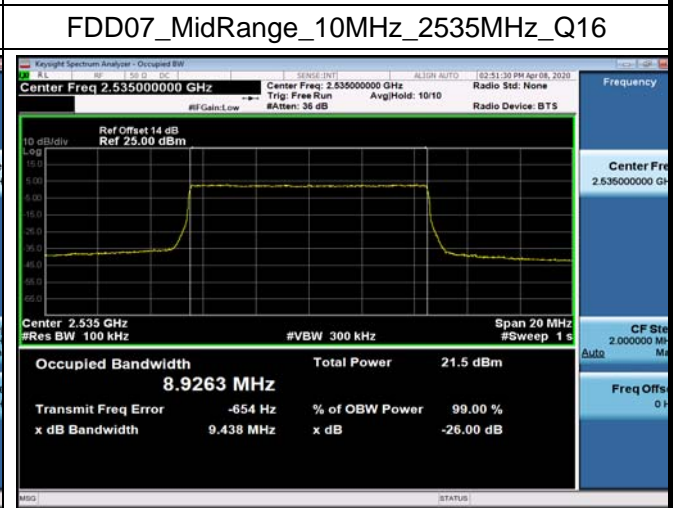
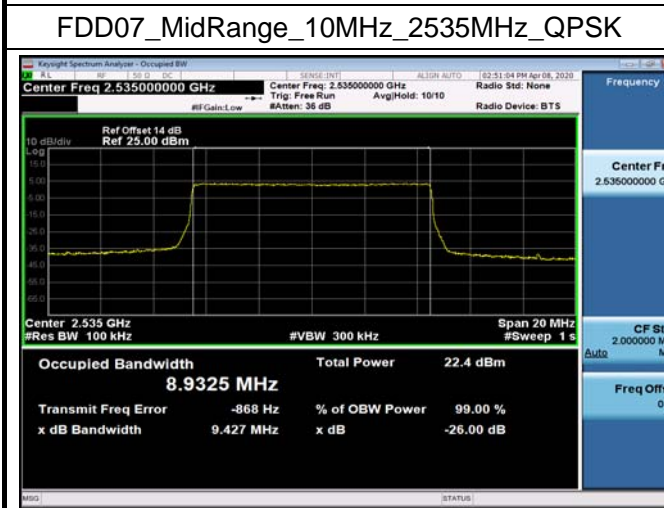
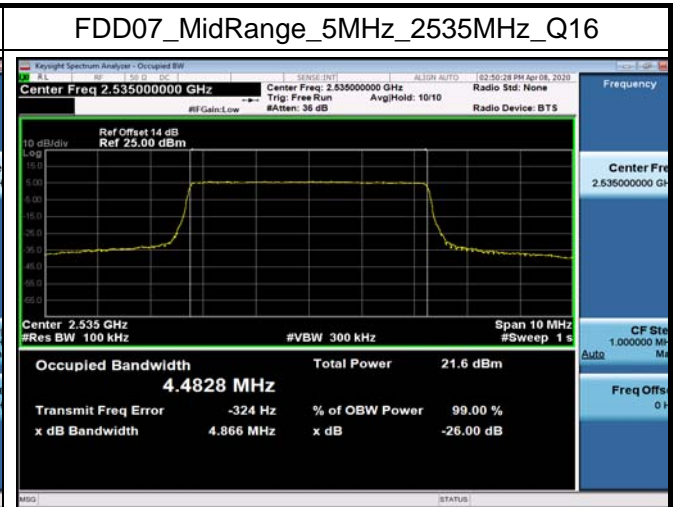
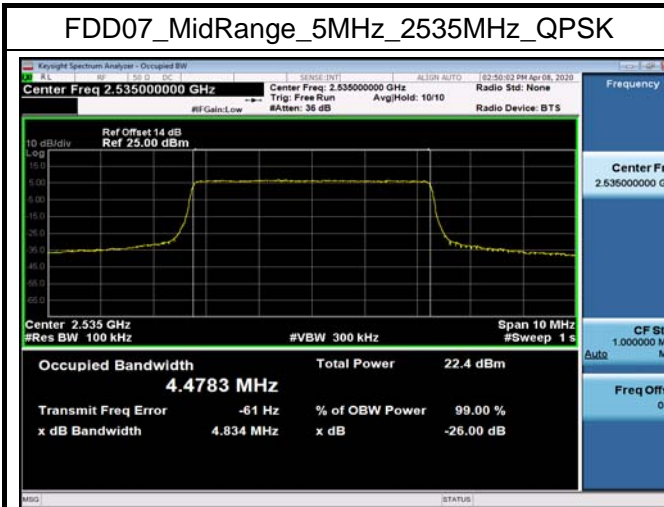
Occupied Bandwidth NormalTC_NormalVol					
Band	Range	BandWidth	Frequency (MHz)	Modulation	Occupied Bandwidth(99%) (MHz)
FDD07	MidRange	5	2535	QPSK	4.479
FDD07	MidRange	5	2535	Q16	4.482
FDD07	MidRange	10	2535	QPSK	8.931
FDD07	MidRange	10	2535	Q16	8.928
FDD07	MidRange	15	2535	QPSK	13.457
FDD07	MidRange	15	2535	Q16	13.458
FDD07	MidRange	20	2535	QPSK	17.922
FDD07	MidRange	20	2535	Q16	17.915

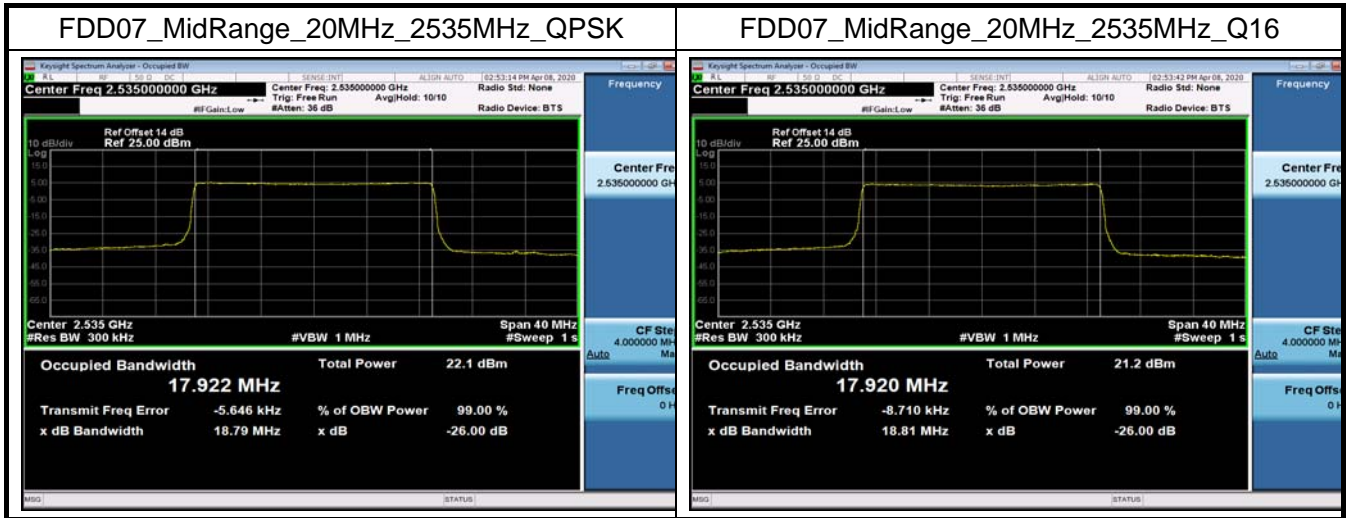




**26dB Bandwidth
Test Result and Data**

Emission Bandwidth NormalTC_NormalVol					
Band	Range	BandWidth	Frequency (MHz)	Modulation	EmissionBandwidth (MHz)
FDD07	MidRange	5	2535	QPSK	4.83
FDD07	MidRange	5	2535	Q16	4.87
FDD07	MidRange	10	2535	QPSK	9.43
FDD07	MidRange	10	2535	Q16	9.44
FDD07	MidRange	15	2535	QPSK	14.26
FDD07	MidRange	15	2535	Q16	14.26
FDD07	MidRange	20	2535	QPSK	18.79
FDD07	MidRange	20	2535	Q16	18.81







Frequency Stability

Test Result and Data

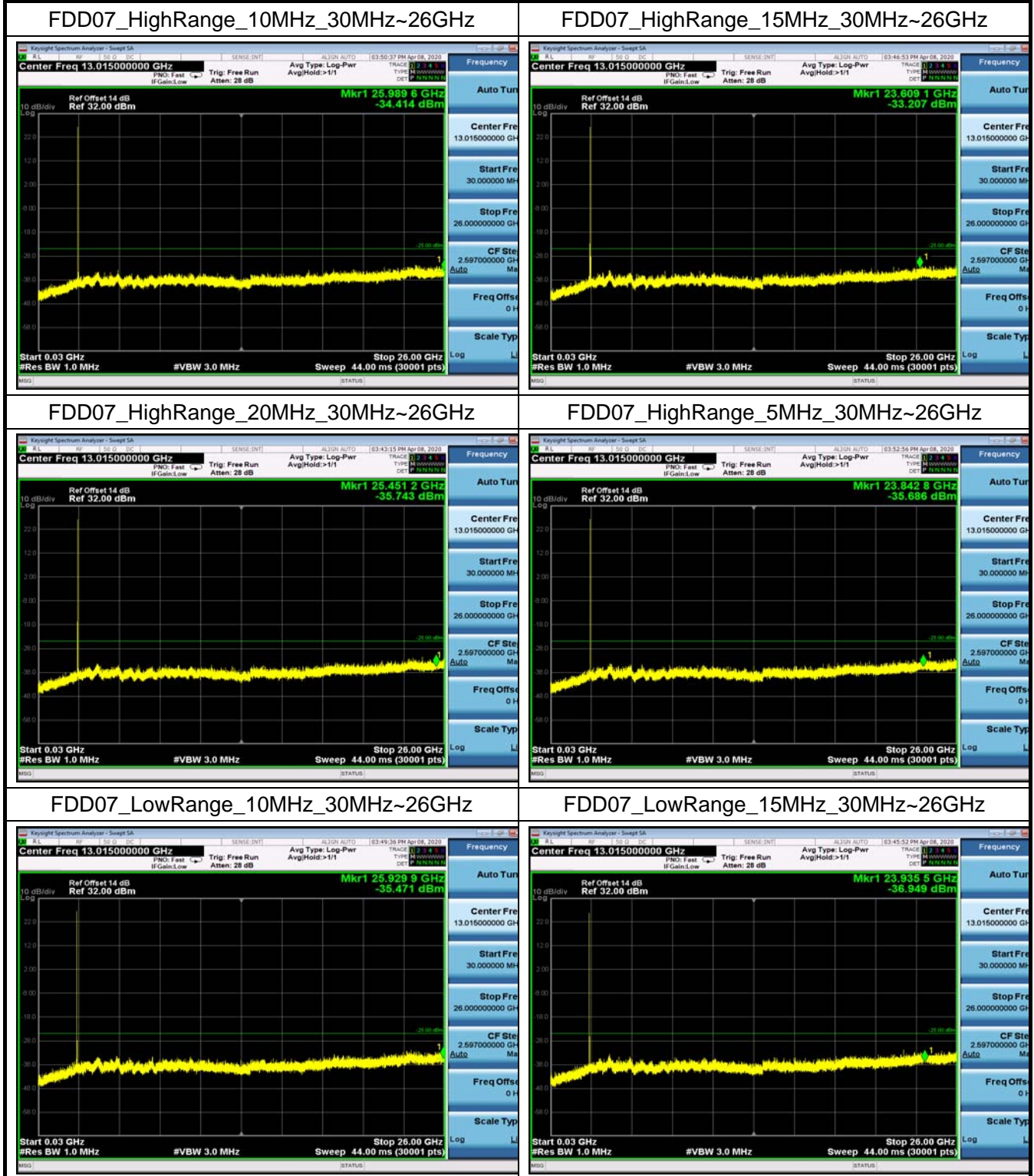
Frequency Stability NormalTC_NormalVol									
Temperature	Voltage	Band	BandWidth (MHz)	RbMode	Modulation	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	Result
Normal	Low	FDD07	10	fullRB	QPSK	-55.575	-0.022	±2.5	Pass
Normal	Normal	FDD07	10	fullRB	QPSK	-64.645	-0.026	±2.5	Pass
Normal	High	FDD07	10	fullRB	QPSK	-52.085	-0.021	±2.5	Pass
50	Normal	FDD07	10	fullRB	QPSK	-47.264	-0.019	±2.5	Pass
40	Normal	FDD07	10	fullRB	QPSK	-48.351	-0.019	±2.5	Pass
30	Normal	FDD07	10	fullRB	QPSK	-50.483	-0.020	±2.5	Pass
20	Normal	FDD07	10	fullRB	QPSK	-41.356	-0.016	±2.5	Pass
10	Normal	FDD07	10	fullRB	QPSK	-34.561	-0.014	±2.5	Pass
0	Normal	FDD07	10	fullRB	QPSK	-59.438	-0.023	±2.5	Pass
-10	Normal	FDD07	10	fullRB	QPSK	-22.488	-0.009	±2.5	Pass
-20	Normal	FDD07	10	fullRB	QPSK	-44.675	-0.018	±2.5	Pass
-30	Normal	FDD07	10	fullRB	QPSK	-40.426	-0.016	±2.5	Pass

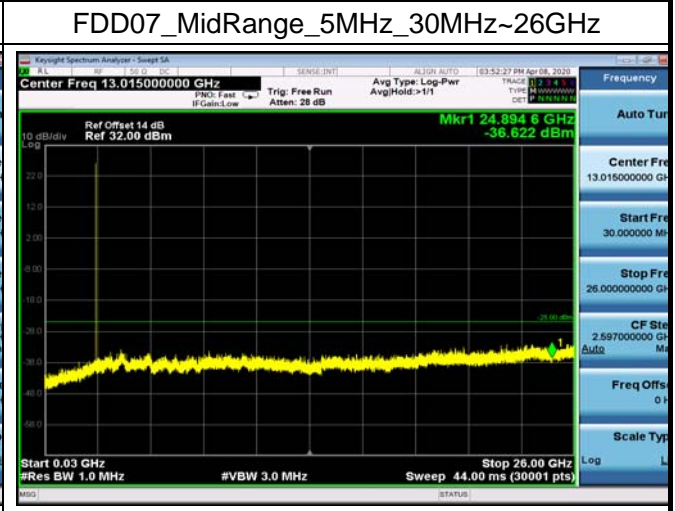
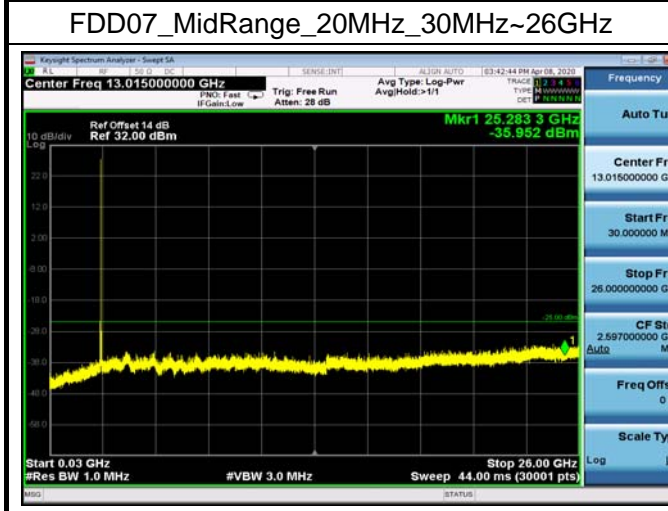
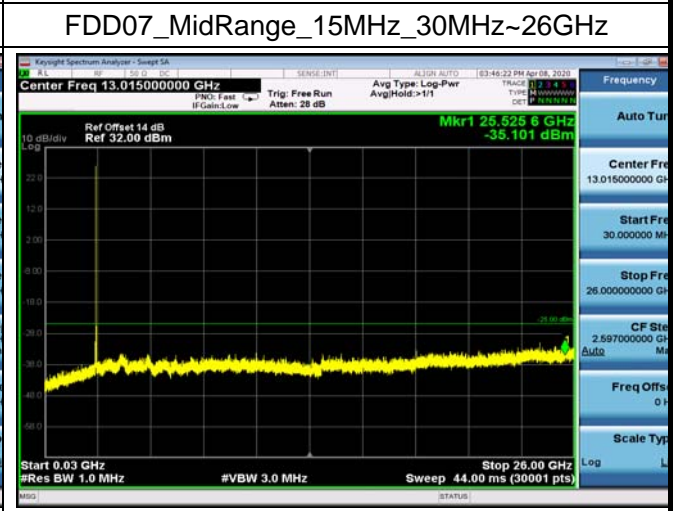
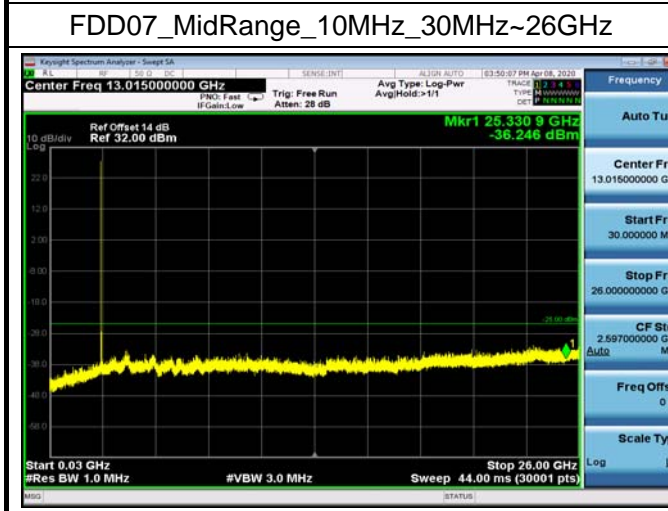
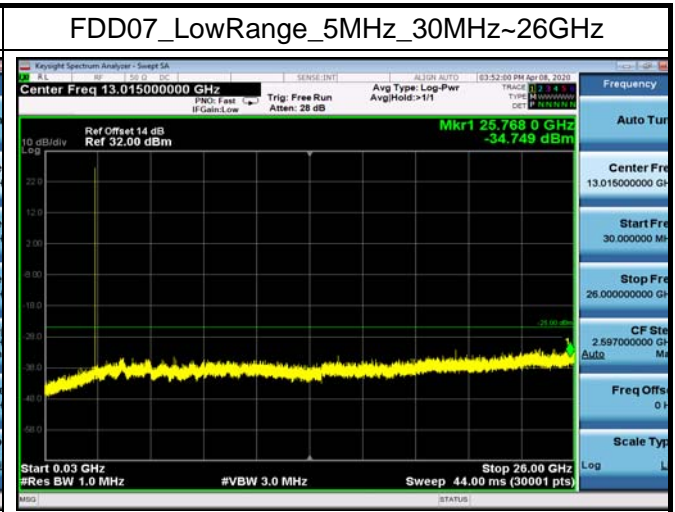
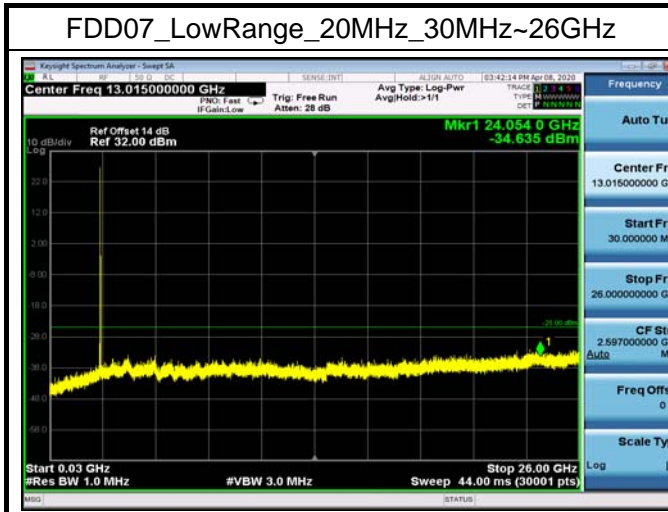
Note: Normal=3.85V, Low=3.5V, High=4.4V



Conducted Out of Band Emissions

Test Result and Data



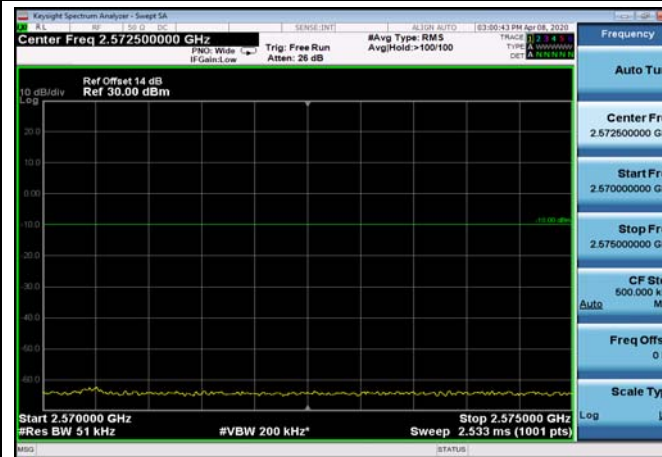




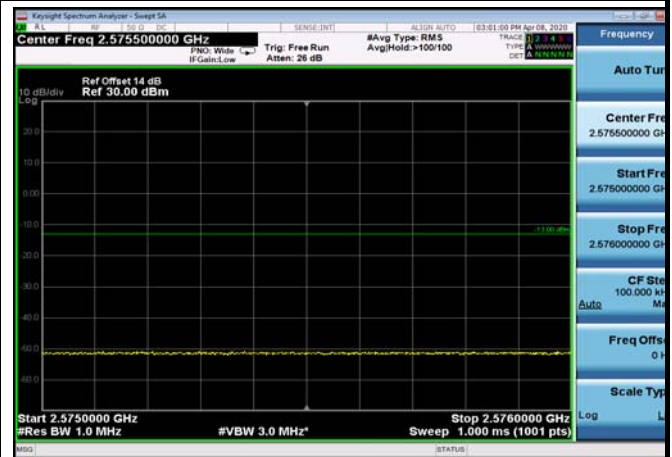
Conducted Band Edge

Test Result and Data

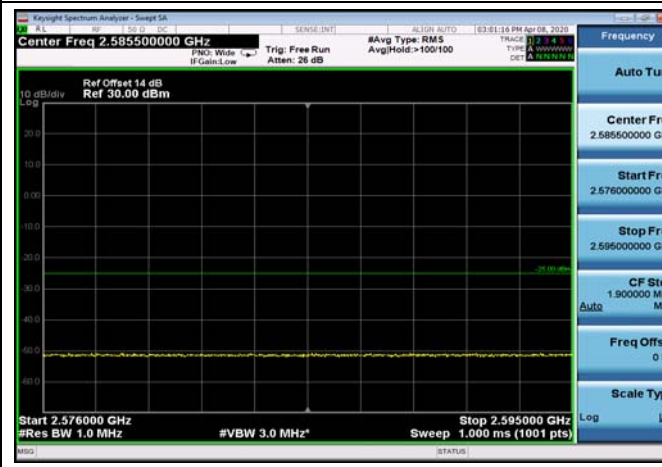
FDD07_5MHz_2502.5_QPSK_OneRB_high
_ExtraBands_Range_2570~2575



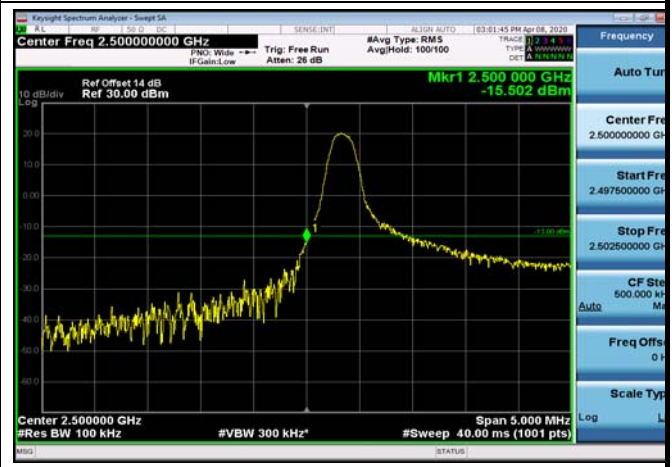
FDD07_5MHz_2502.5_QPSK_OneRB_high
_ExtraBands_Range_2575~2576



FDD07_5MHz_2502.5_QPSK_OneRB_high
_ExtraBands_Range_2576~2595

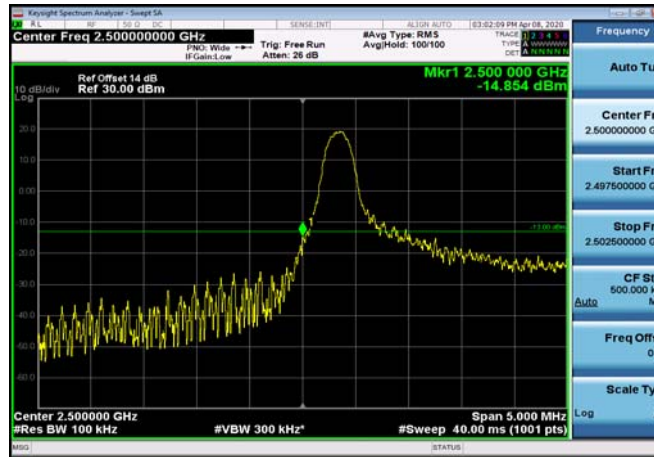


LowRange_FDD07_5MHz_2502.5_OneRB
_low_QPSK

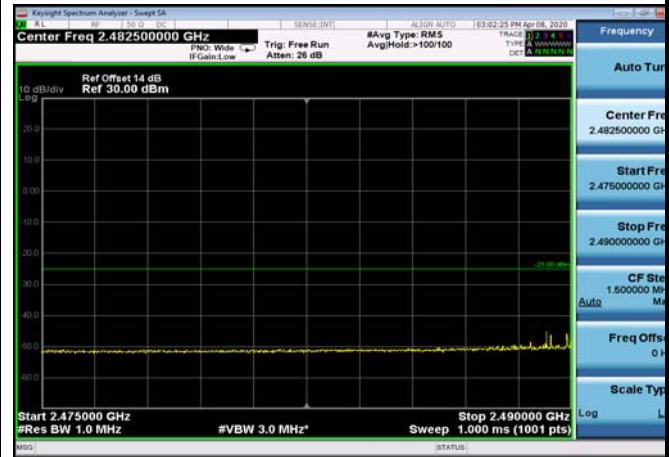




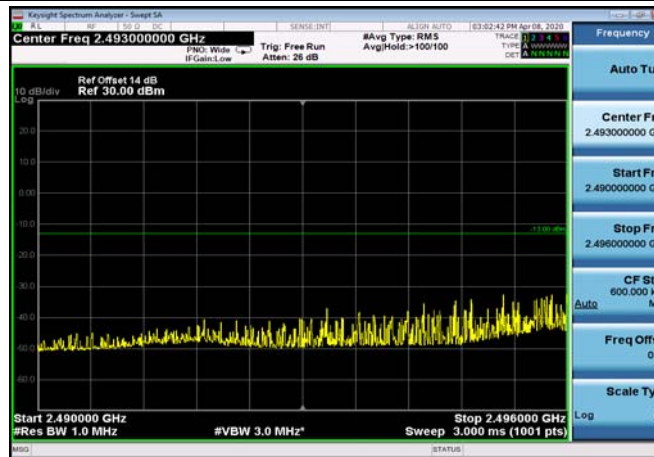
LowRange_FDD07_5MHz_2502.5_OneRB_low_Q16



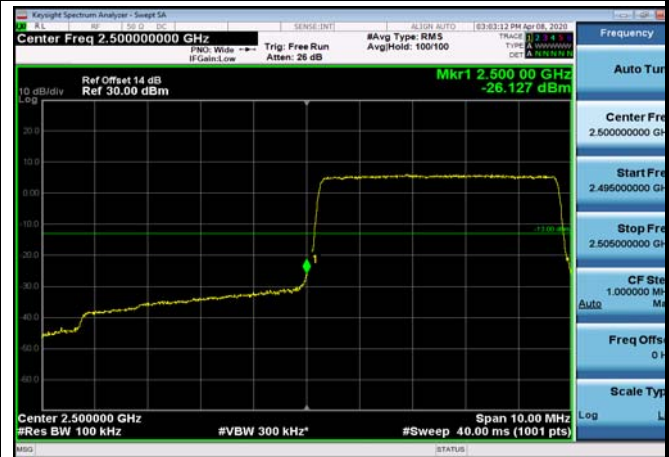
FDD07_5MHz_2502.5_Q16_OneRB_low_ExtraBands_Range_2475~2490



FDD07_5MHz_2502.5_Q16_OneRB_low_ExtraBands_Range_2490~2496



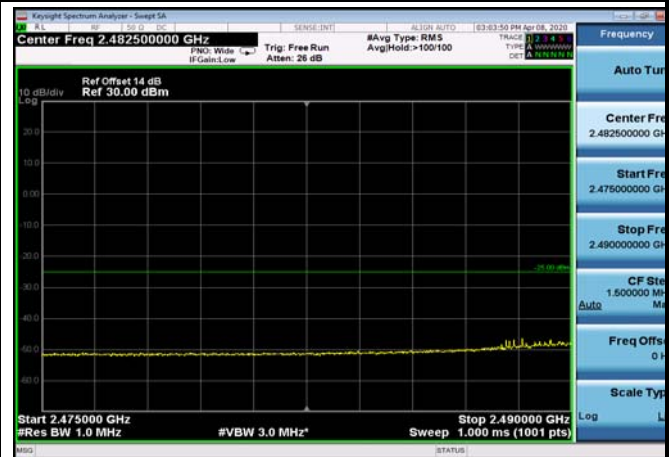
LowRange_FDD07_5MHz_2502.5_fullIRB_Low_QPSK



LowRange_FDD07_5MHz_2502.5_fullIRB_Low_Q16

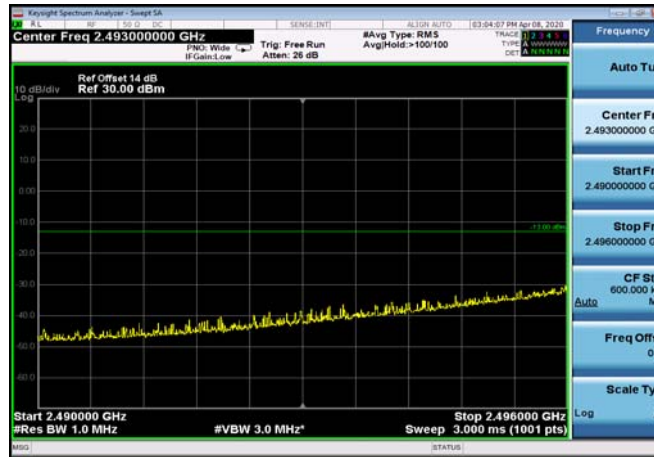


FDD07_5MHz_2502.5_Q16_fullIRB_ExtraBands_Range_2475~2490

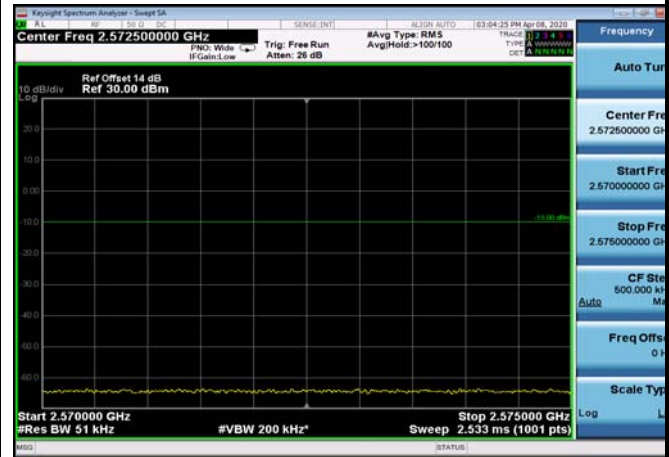




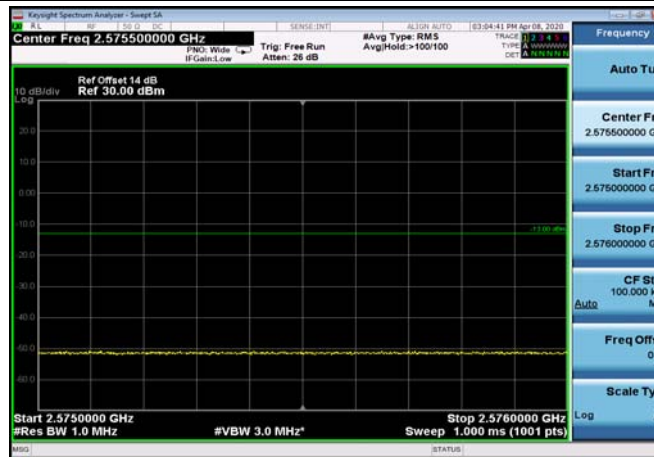
FDD07_5MHz_2502.5_Q16_fullIRB_ExtraBan
ds_Range_2490~2496



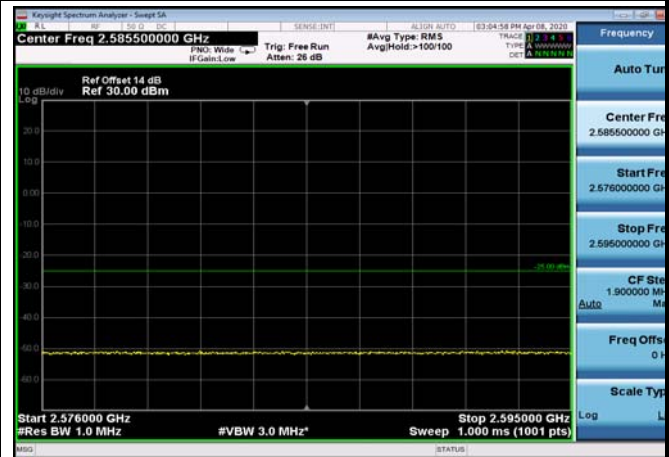
FDD07_5MHz_2502.5_Q16_fullIRB_ExtraBan
ds_Range_2570~2575



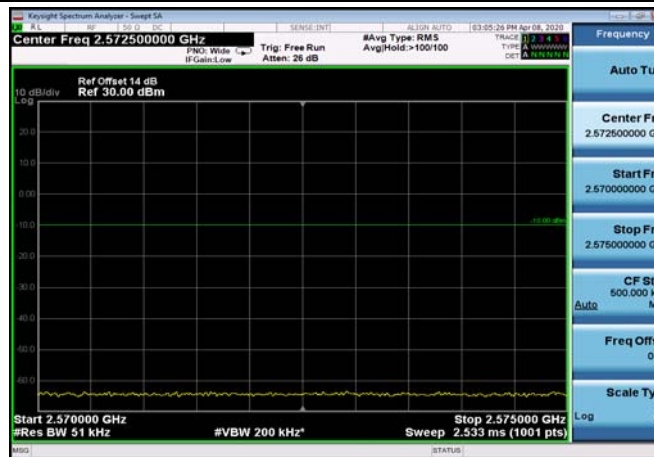
FDD07_5MHz_2502.5_Q16_fullIRB_ExtraBan
ds_Range_2575~2576



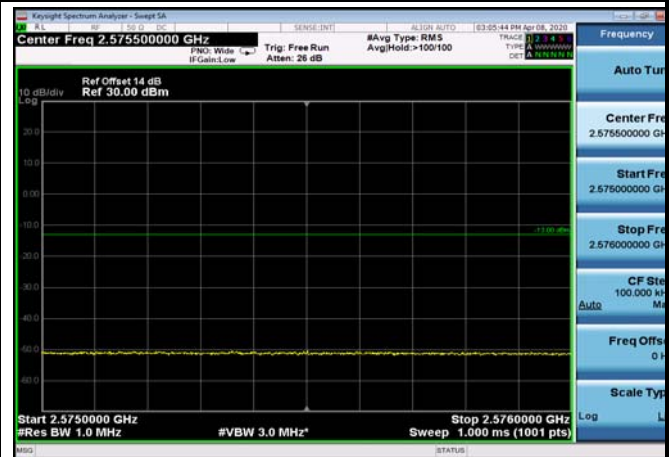
FDD07_5MHz_2502.5_Q16_fullIRB_ExtraBan
ds_Range_2576~2595



FDD07_10MHz_2505_QPSK_OneRB_high
_ExtraBands_Range_2570~2575

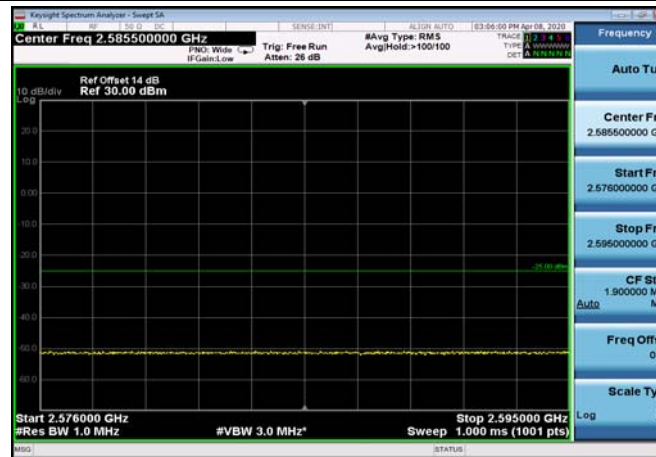


FDD07_10MHz_2505_QPSK_OneRB_high
_ExtraBands_Range_2575~2576

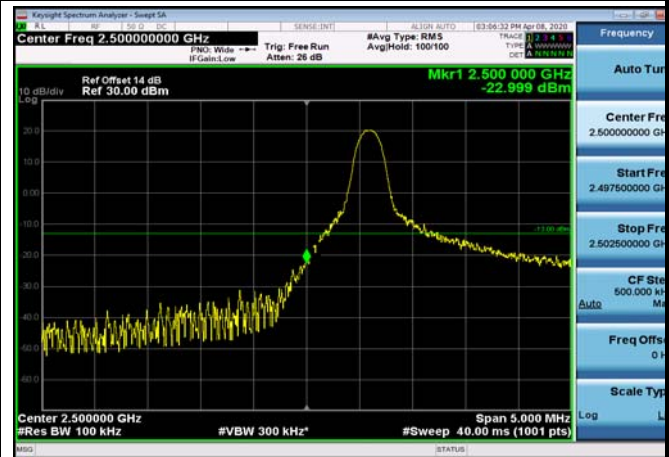




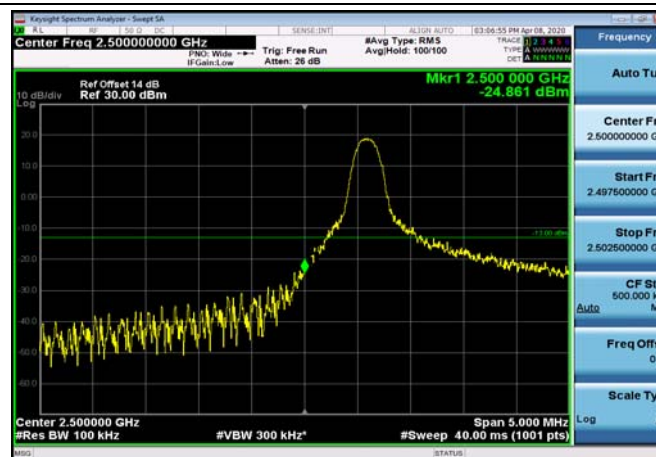
FDD07_10MHz_2505_QPSK_OneRB_high
_ExtraBands_Range_2576~2595



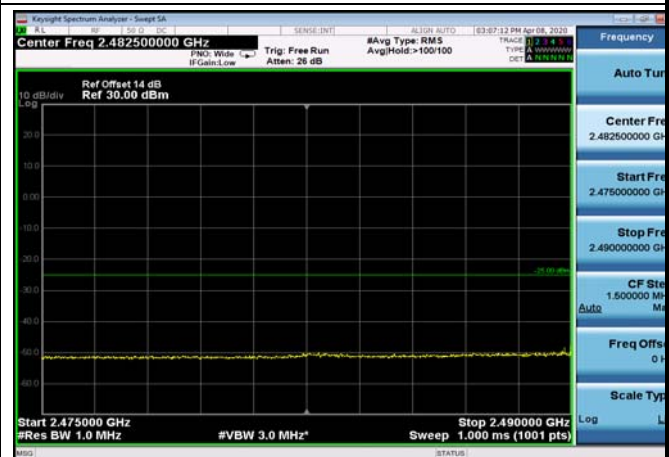
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_low_QPSK



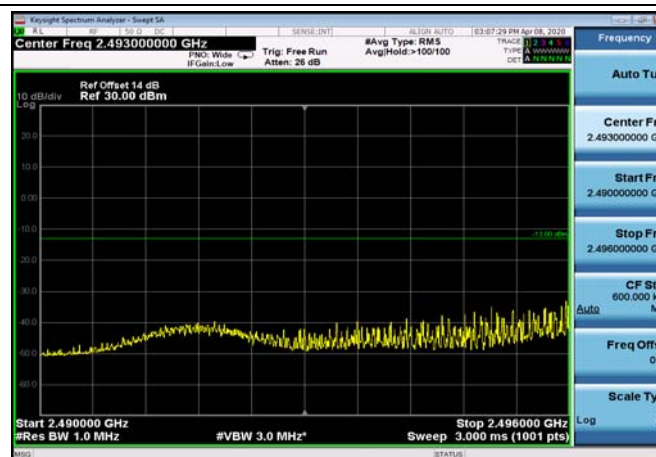
LowRange_FDD07_10MHz_2505_OneRB
_low_Q16



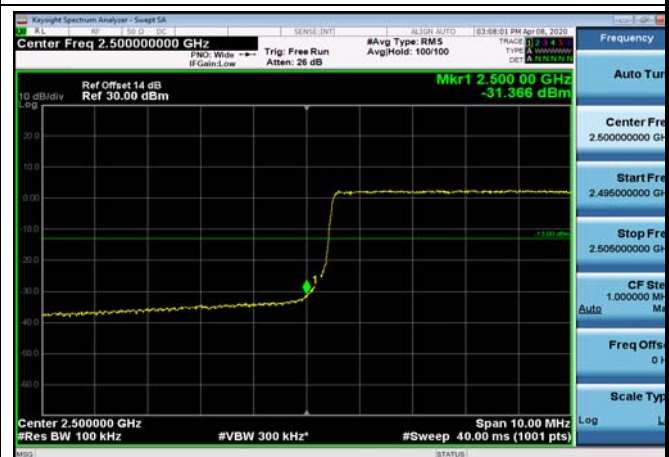
FDD07_10MHz_2505_Q16_OneRB_low
_ExtraBands_Range_2475~2490



FDD07_10MHz_2505_Q16_OneRB_low
_ExtraBands_Range_2490~2496

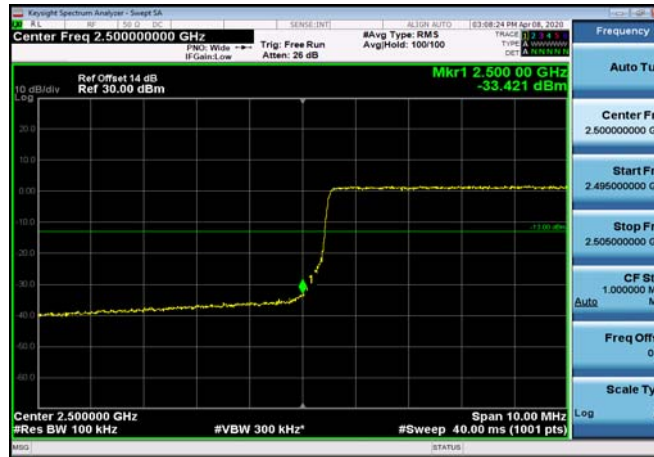


LowRange_FDD07_10MHz_2505_fullIRB
_Low_QPSK

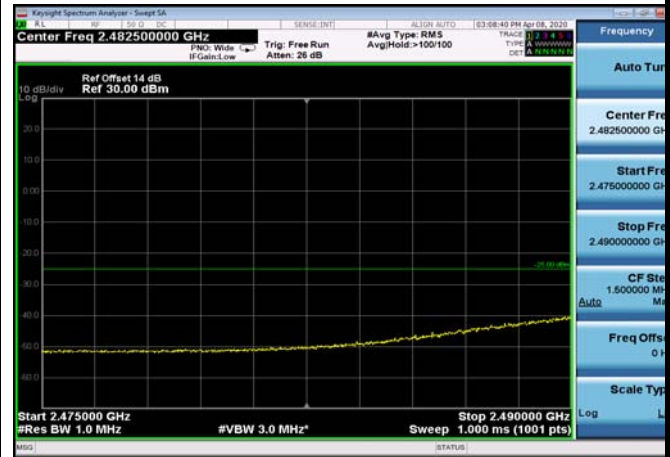




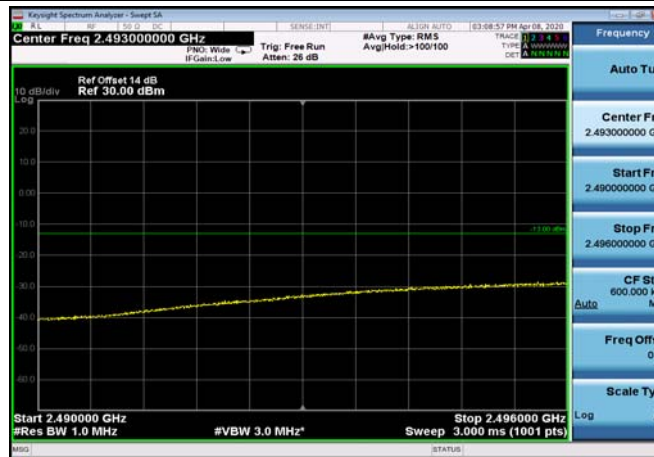
LowRange_FDD07_10MHz_2505_fullRB
_Low_Q16



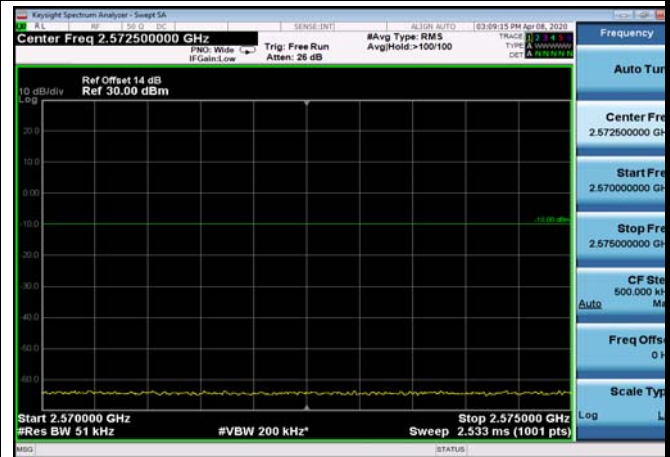
FDD07_10MHz_2505_Q16_fullRB_ExtraBand
s_Range_2475~2490



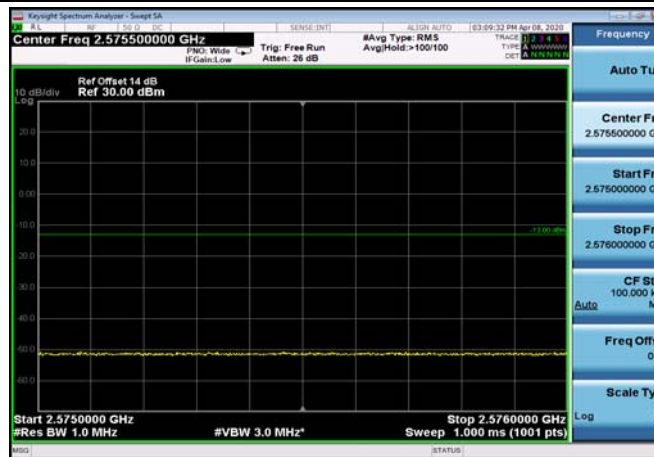
FDD07_10MHz_2505_Q16_fullRB_ExtraBand
s_Range_2490~2496



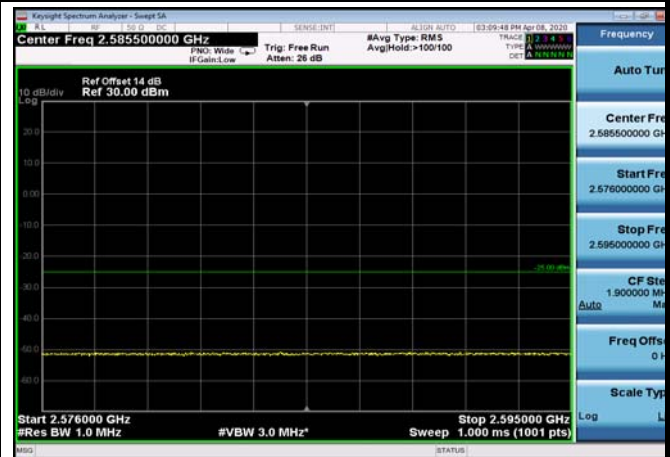
FDD07_10MHz_2505_Q16_fullRB_ExtraBand
s_Range_2570~2575



FDD07_10MHz_2505_Q16_fullRB_ExtraBand
s_Range_2575~2576

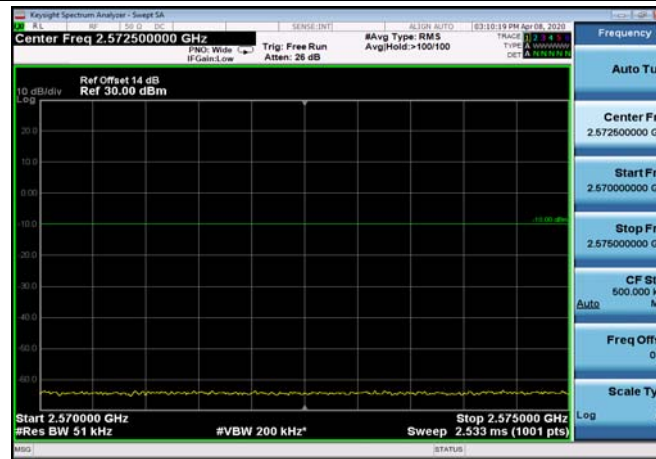


FDD07_10MHz_2505_Q16_fullRB_ExtraBand
s_Range_2576~2595

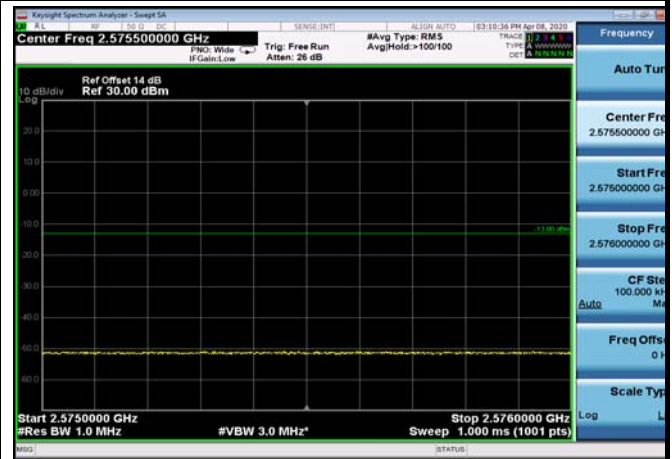




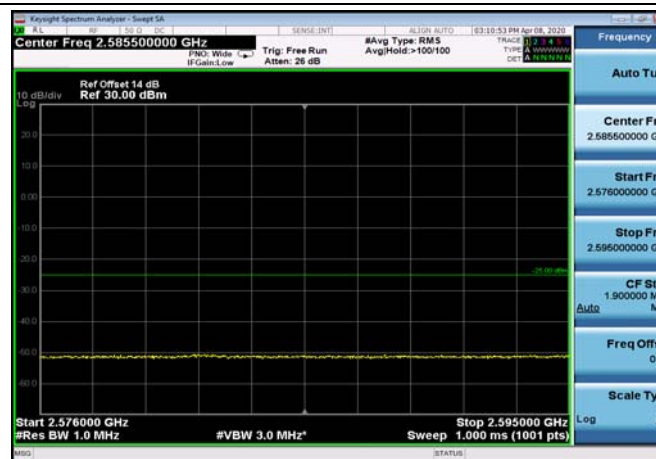
FDD07_15MHz_2507.5_QPSK_OneRB_high
_ExtraBands_Range_2570~2575



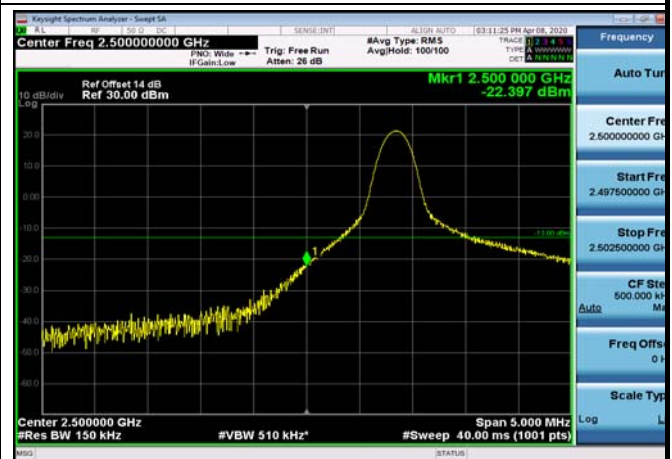
FDD07_15MHz_2507.5_QPSK_OneRB_high
_ExtraBands_Range_2575~2576



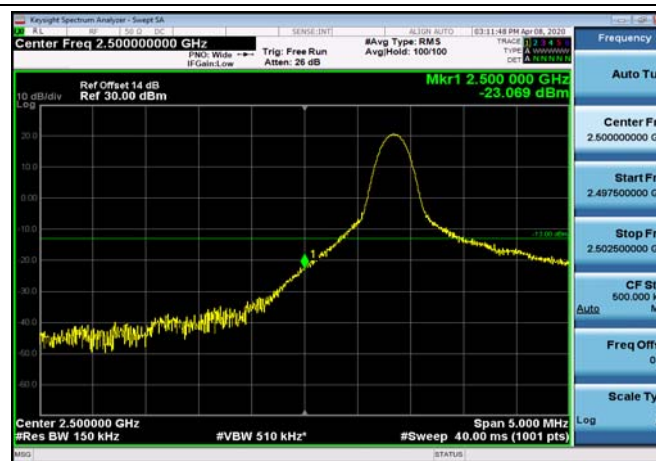
FDD07_15MHz_2507.5_QPSK_OneRB_high
_ExtraBands_Range_2576~2595



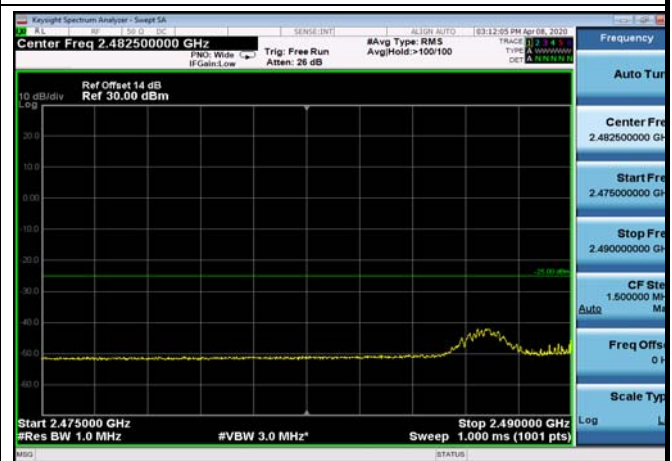
LowRange_FDD07_15MHz_2507.5_OneRB
_low_QPSK



LowRange_FDD07_15MHz_2507.5_OneRB
_low_Q16

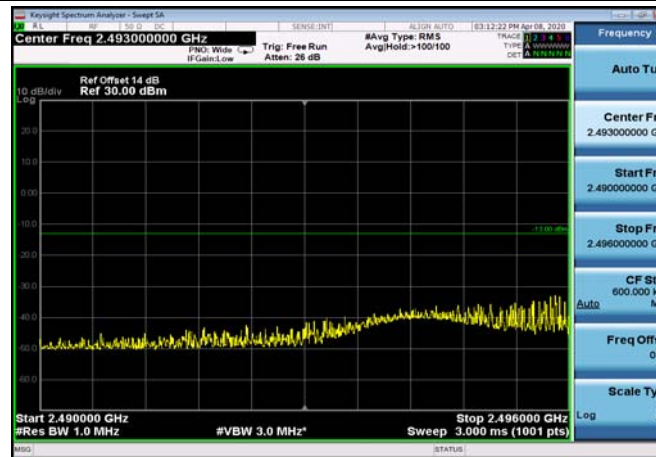


FDD07_15MHz_2507.5_Q16_OneRB_low
_ExtraBands_Range_2475~2490

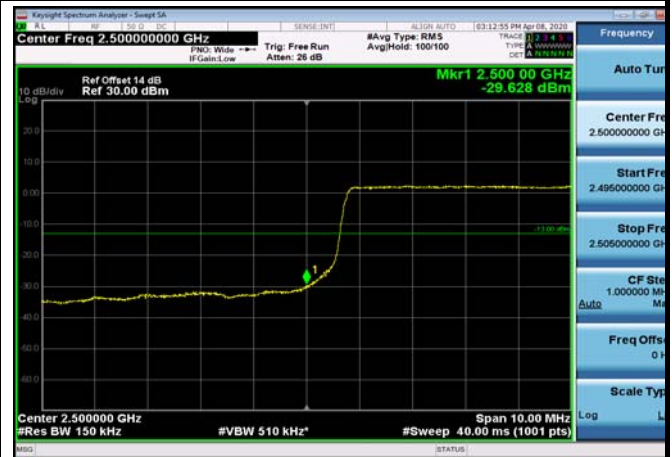




FDD07_15MHz_2507.5_Q16_OneRB_low
_ExtraBands_Range_2490~2496



LowRange_FDD07_15MHz_2507.5_fullIRB
_Low_QPSK



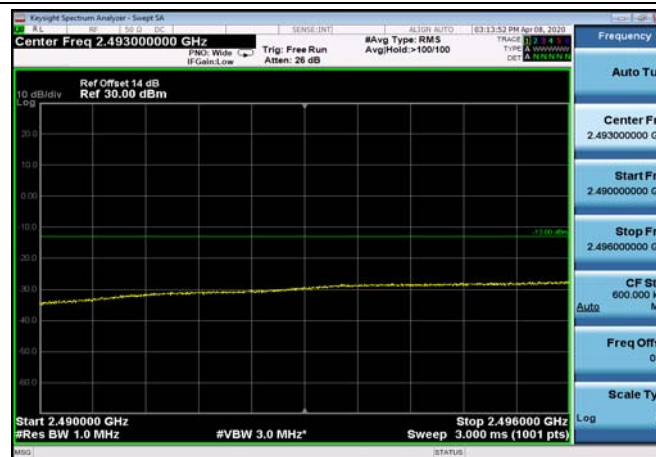
LowRange_FDD07_15MHz_2507.5_fullIRB
_Low_Q16



FDD07_15MHz_2507.5_Q16_fullIRB_ExtraBa
nds_Range_2475~2490



FDD07_15MHz_2507.5_Q16_fullIRB_ExtraBa
nds_Range_2490~2496

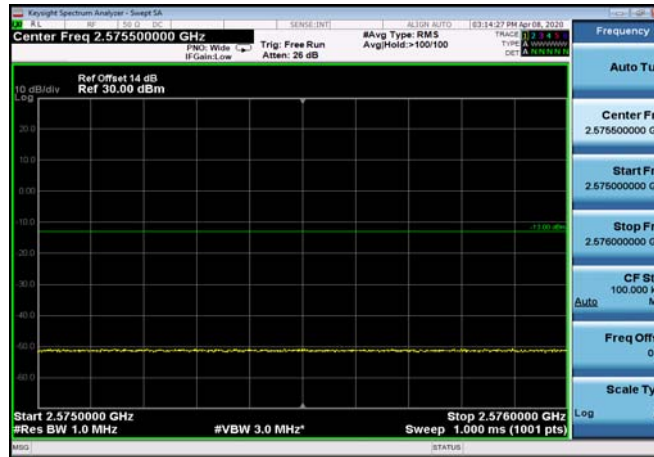


FDD07_15MHz_2507.5_Q16_fullIRB_ExtraBa
nds_Range_2570~2575

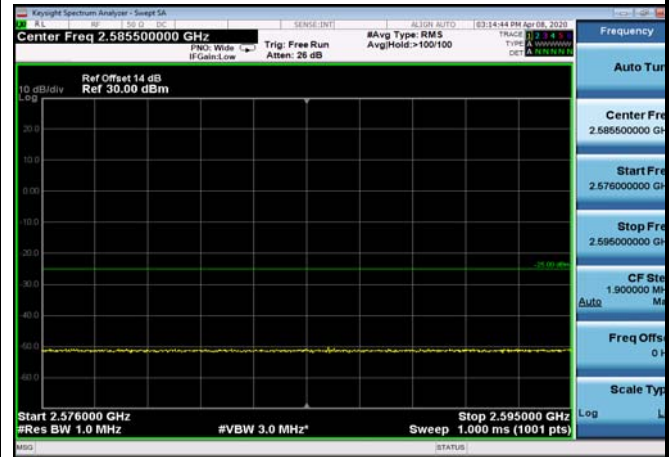




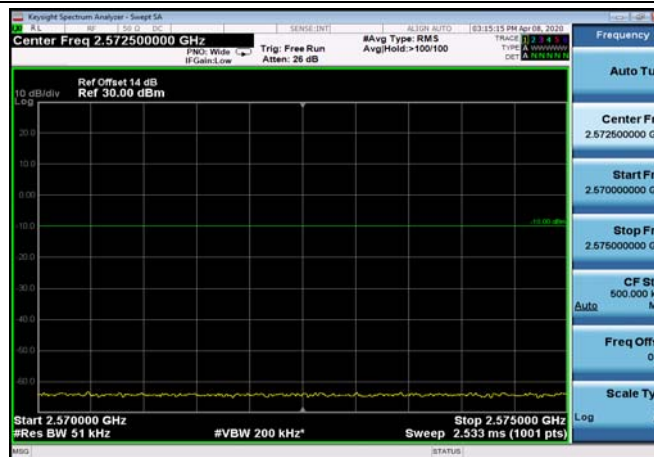
FDD07_15MHz_2507.5_Q16_fullIRB_ExtraBands_Range_2575~2576



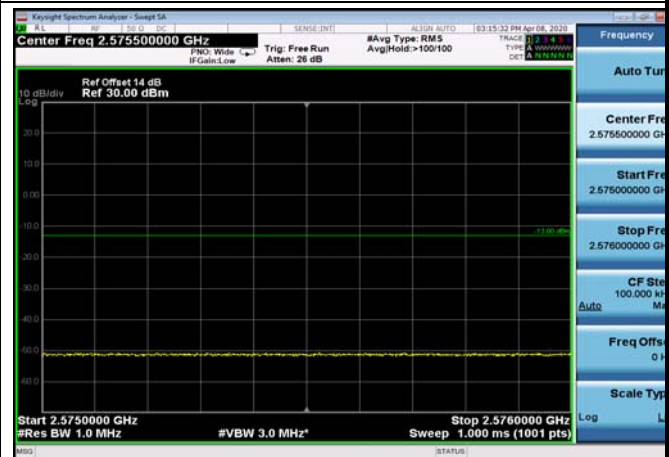
FDD07_15MHz_2507.5_Q16_fullIRB_ExtraBands_Range_2576~2595



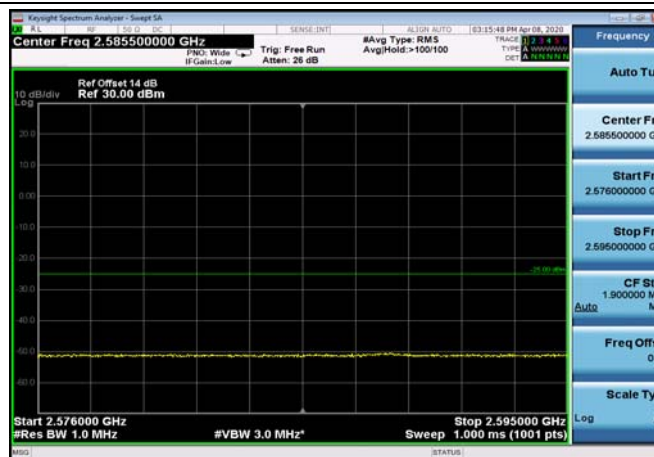
FDD07_20MHz_2510_QPSK_OneRB_high_ExtraBands_Range_2570~2575



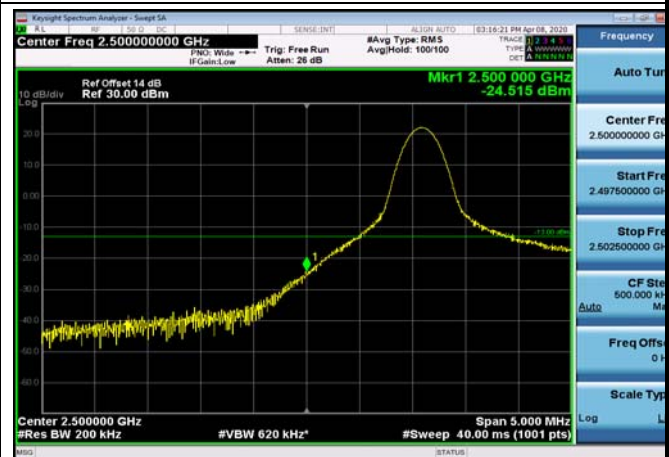
FDD07_20MHz_2510_QPSK_OneRB_high_ExtraBands_Range_2575~2576



FDD07_20MHz_2510_QPSK_OneRB_high_ExtraBands_Range_2576~2595

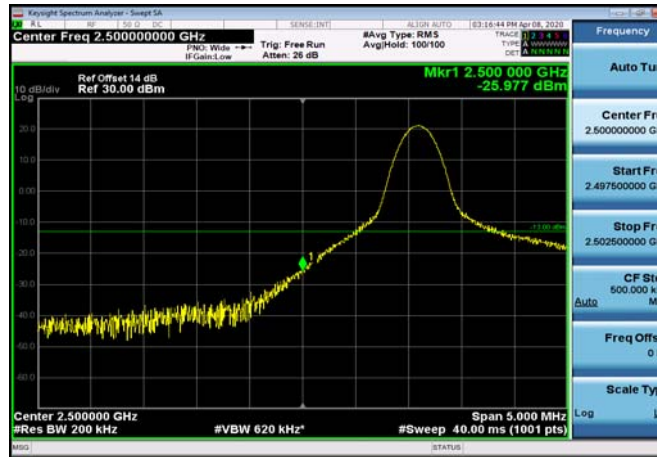


LowRange_FDD07_20MHz_2510_OneRB_low_QPSK

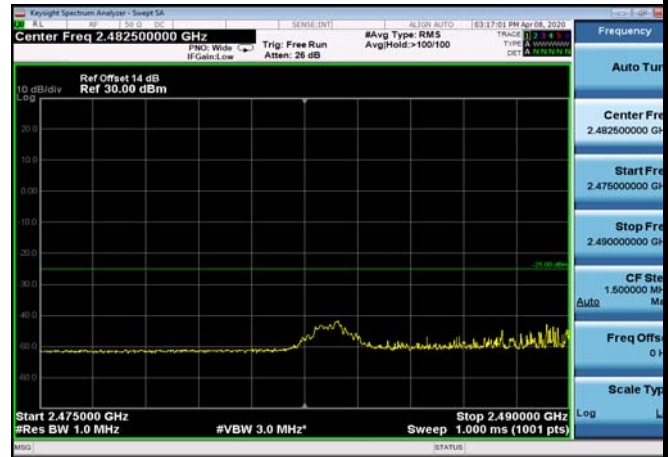




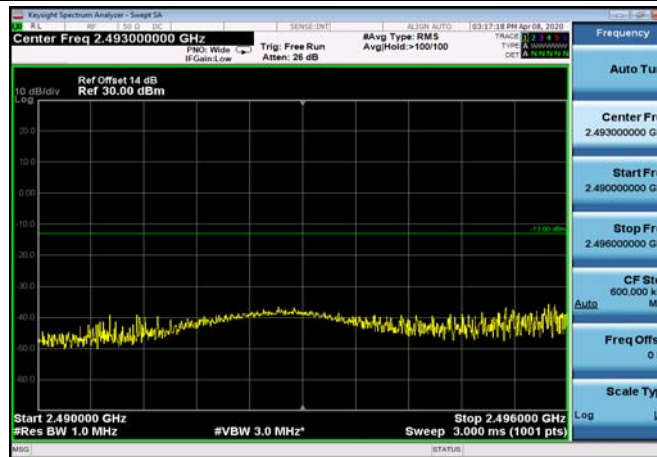
LowRange_FDD07_20MHz_2510_OneRB_low_Q16



FDD07_20MHz_2510_Q16_OneRB_low_ExtraBands_Range_2475~2490



FDD07_20MHz_2510_Q16_OneRB_low_ExtraBands_Range_2490~2496



LowRange_FDD07_20MHz_2510_fullRB_Low_QPSK



LowRange_FDD07_20MHz_2510_fullRB_Low_Q16

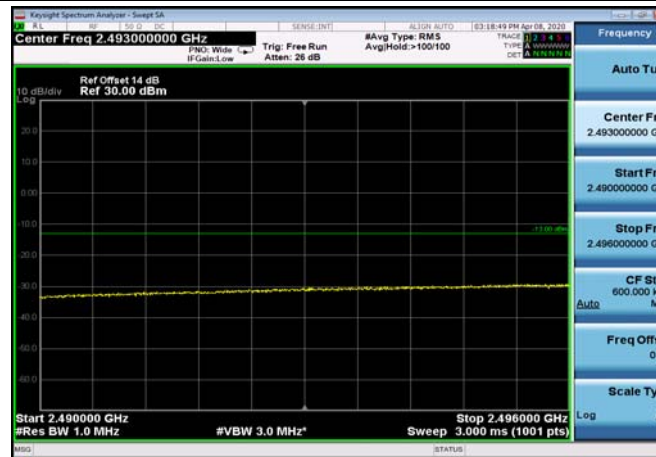


FDD07_20MHz_2510_Q16_fullRB_ExtraBands_Range_2475~2490

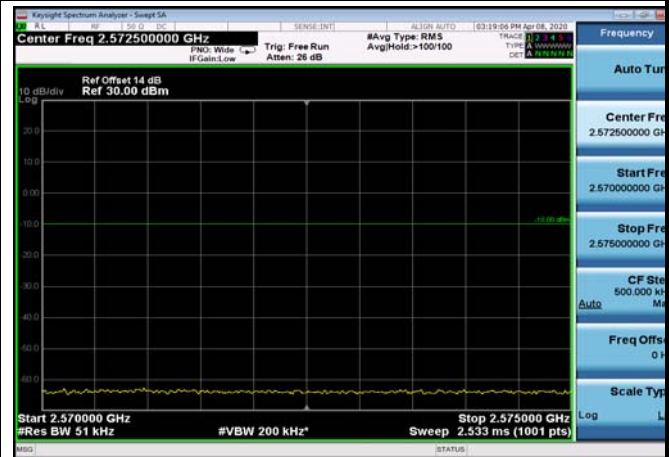




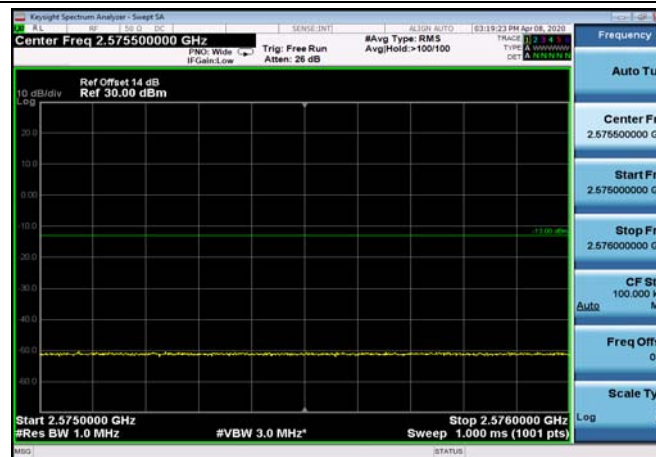
FDD07_20MHz_2510_Q16_fullRB_ExtraBand
s_Range_2490~2496



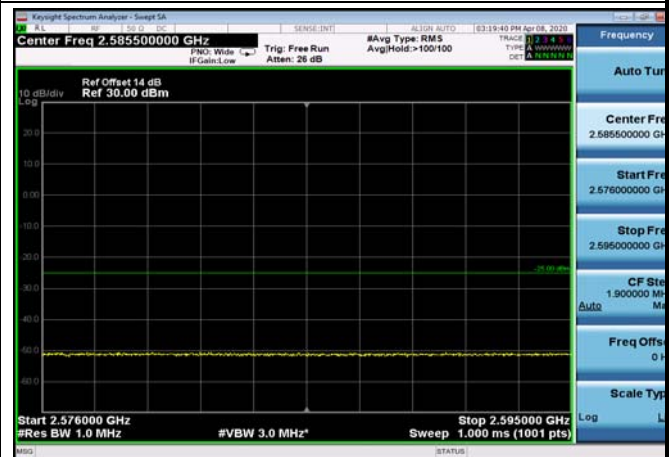
FDD07_20MHz_2510_Q16_fullRB_ExtraBand
s_Range_2570~2575



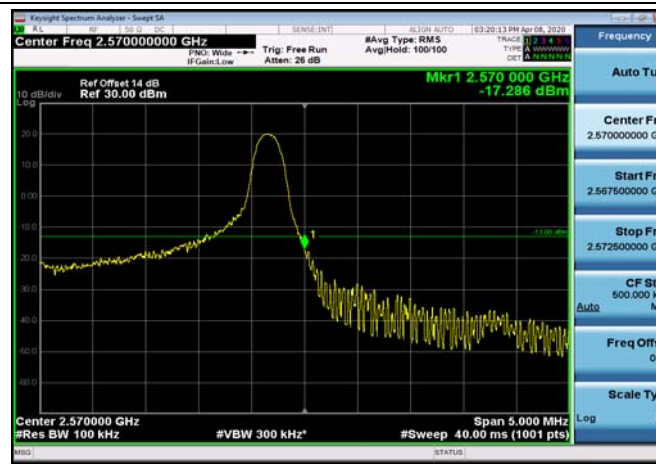
FDD07_20MHz_2510_Q16_fullRB_ExtraBand
s_Range_2575~2576



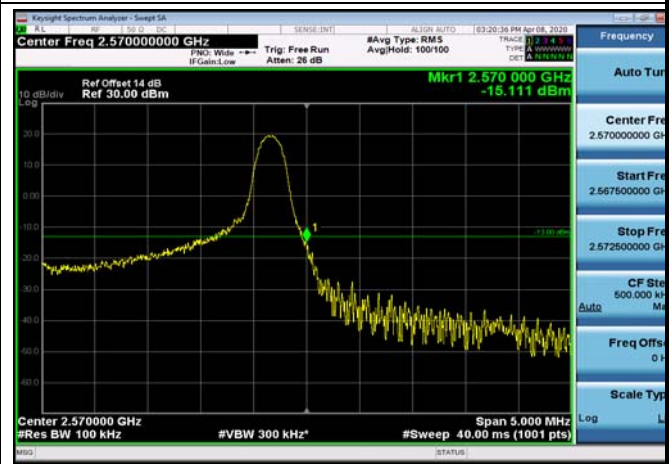
FDD07_20MHz_2510_Q16_fullRB_ExtraBand
s_Range_2576~2595



HighRange_FDD07_5MHz_2567.5_OneRB
_high_QPSK

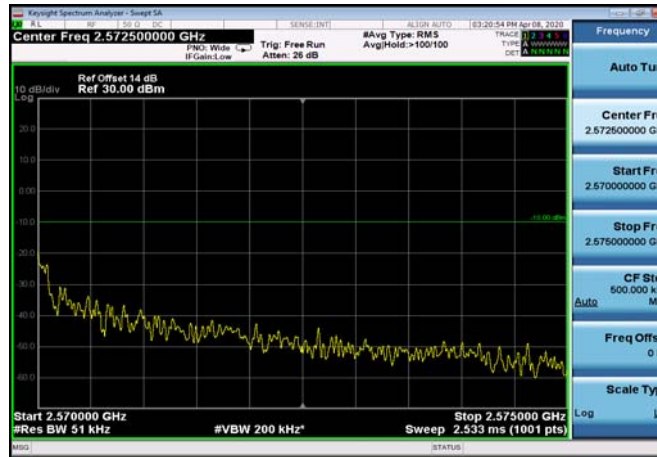


HighRange_FDD07_5MHz_2567.5_OneRB
_high_Q16

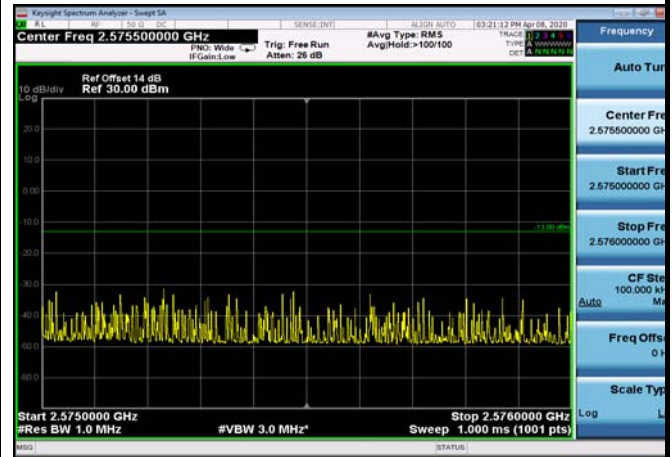




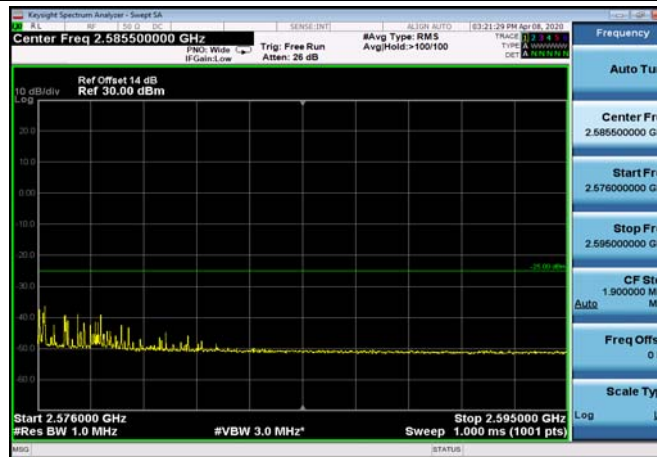
FDD07_5MHz_2567.5_Q16_OneRB_high
_ExtraBands_Range_2570~2575



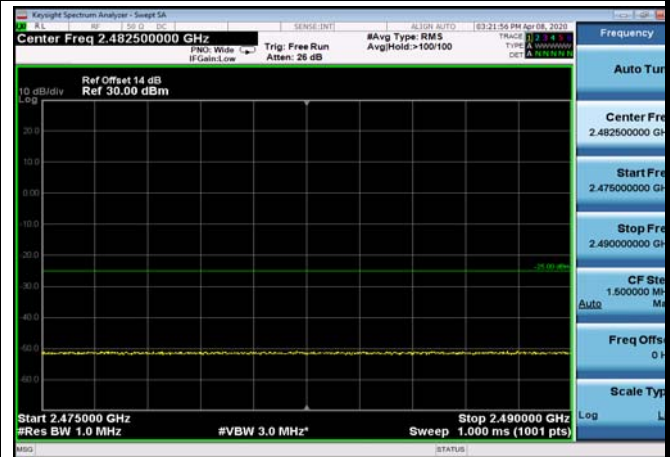
FDD07_5MHz_2567.5_Q16_OneRB_high
_ExtraBands_Range_2575~2576



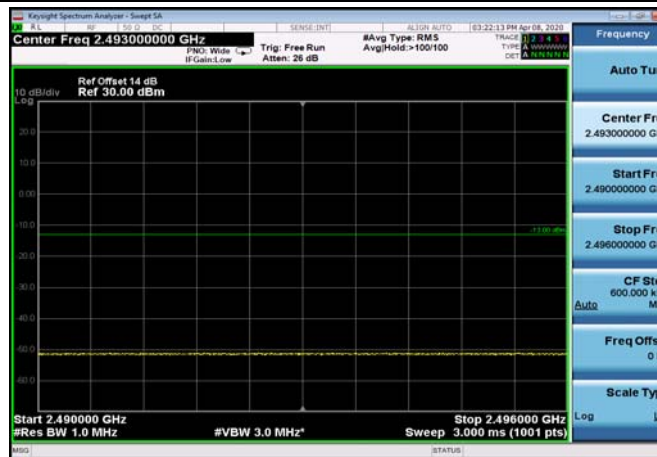
FDD07_5MHz_2567.5_Q16_OneRB_high
_ExtraBands_Range_2576~2595



FDD07_5MHz_2567.5_QPSK_OneRB_low
_ExtraBands_Range_2475~2490



FDD07_5MHz_2567.5_QPSK_OneRB_low
_ExtraBands_Range_2490~2496



HighRange_FDD07_5MHz_2567.5_fullIRB
_High_QPSK

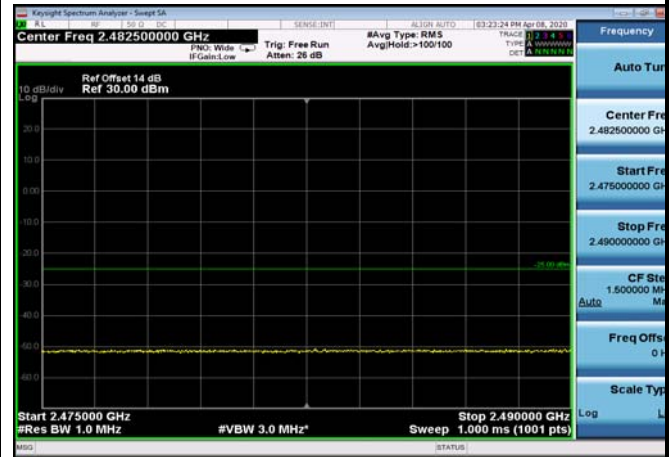




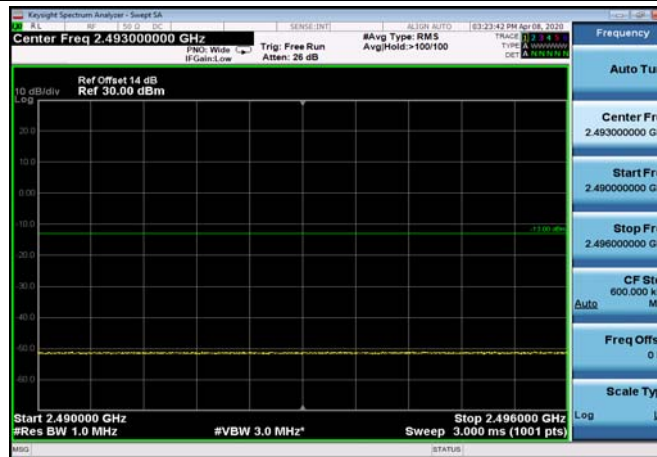
HighRange_ FDD07_5MHz_2567.5_fullIRB
_High_Q16



FDD07_5MHz_2567.5_QPSK_fullIRB_ExtraBa
nds_Range_2475~2490



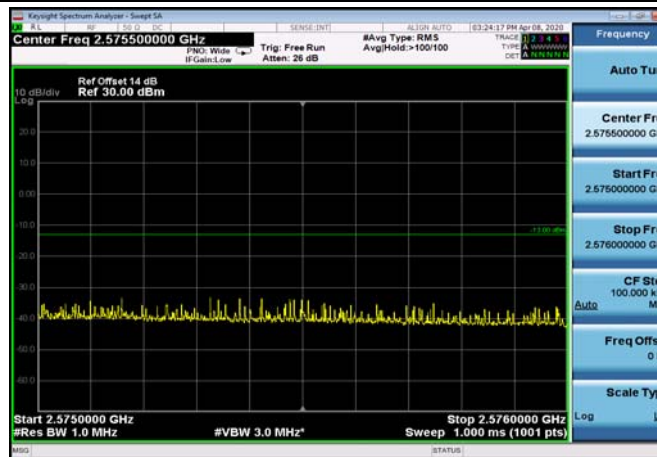
FDD07_5MHz_2567.5_QPSK_fullIRB_ExtraBa
nds_Range_2490~2496



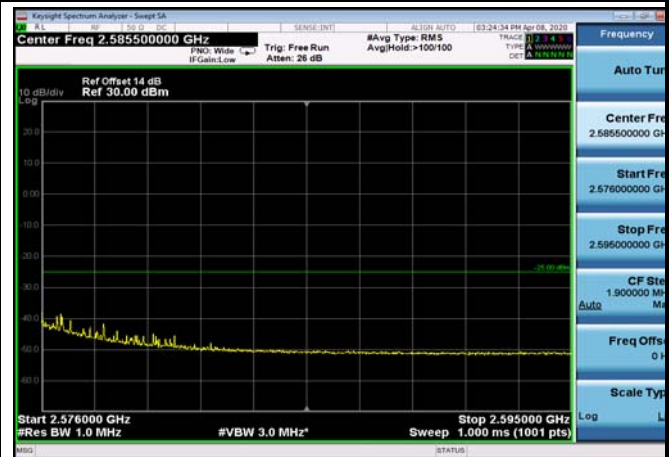
FDD07_5MHz_2567.5_QPSK_fullIRB_ExtraBa
nds_Range_2570~2575



FDD07_5MHz_2567.5_QPSK_fullIRB_ExtraBa
nds_Range_2575~2576

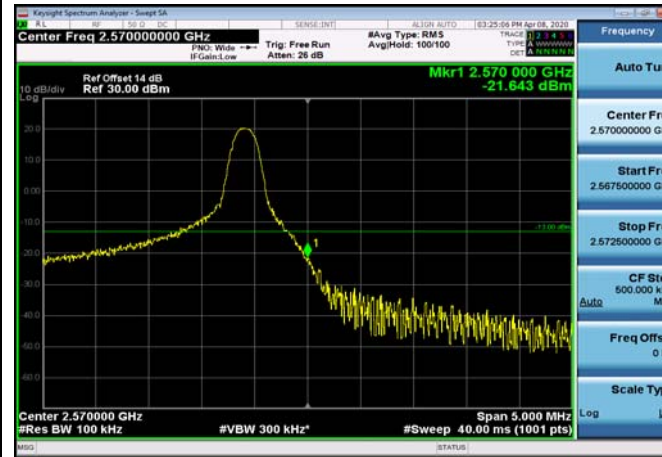


FDD07_5MHz_2567.5_QPSK_fullIRB_ExtraBa
nds_Range_2576~2595

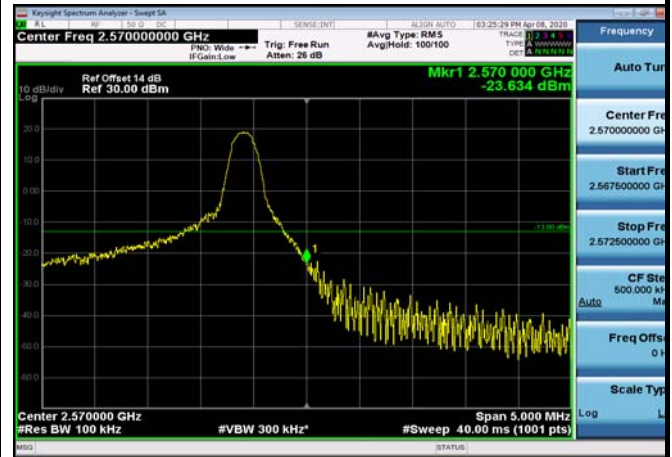




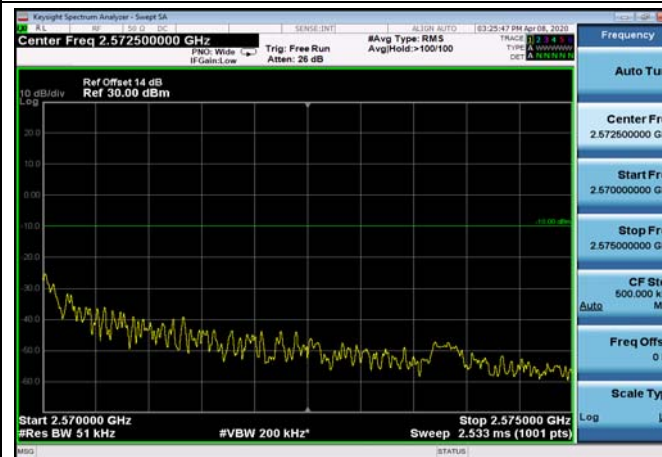
HighRange_FDD07_10MHz_2565_OneRB_high_QPSK



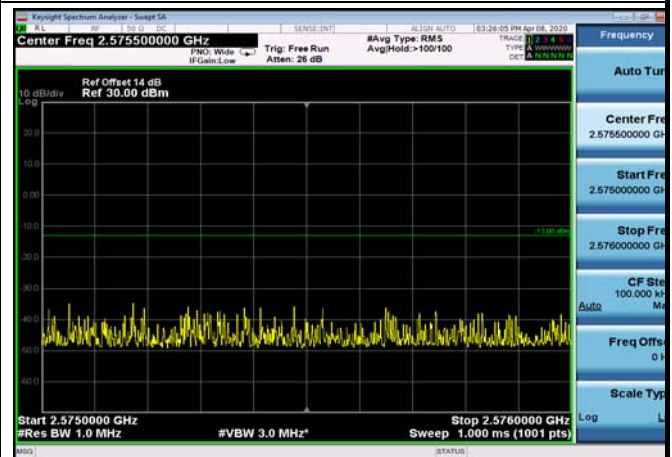
HighRange_FDD07_10MHz_2565_OneRB_high_Q16



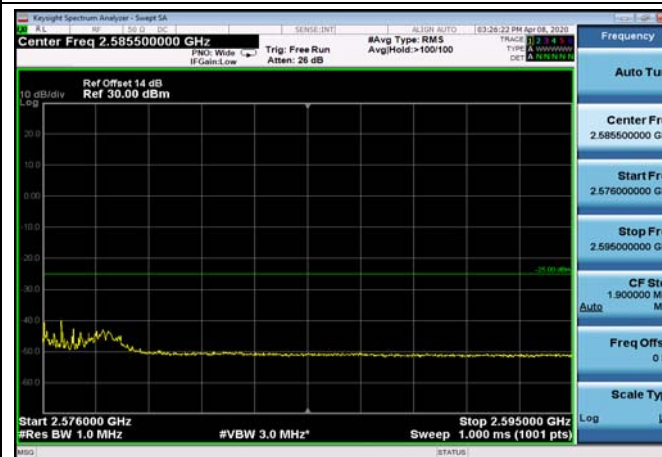
FDD07_10MHz_2565_Q16_OneRB_high_ExtraBands_Range_2570~2575



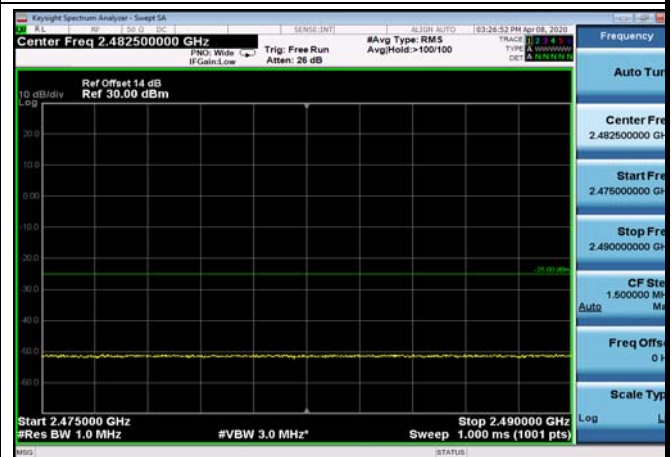
FDD07_10MHz_2565_Q16_OneRB_high_ExtraBands_Range_2575~2576



FDD07_10MHz_2565_Q16_OneRB_high_ExtraBands_Range_2576~2595

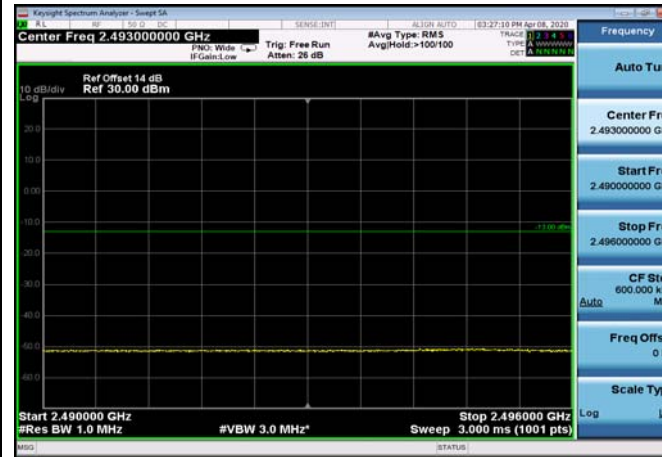


FDD07_10MHz_2565_QPSK_OneRB_low_ExtraBands_Range_2475~2490





FDD07_10MHz_2565_QPSK_OneRB_low
_ExtraBands_Range_2490~2496



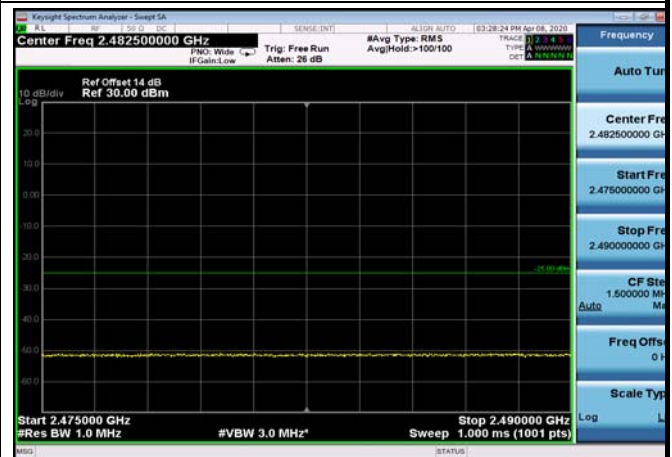
HighRange_FDD07_10MHz_2565_fullIRB
_High_QPSK



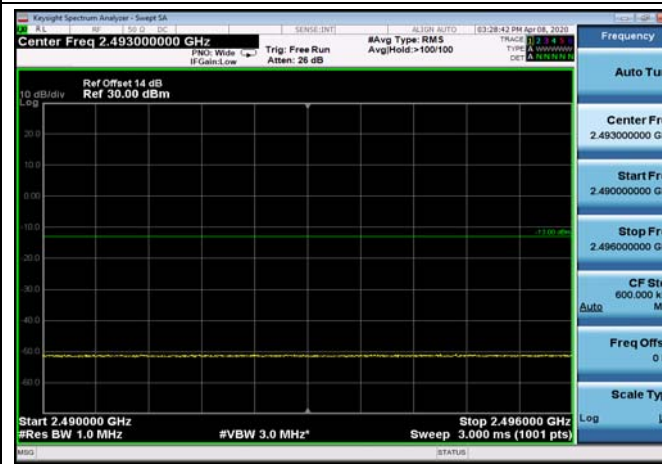
HighRange_FDD07_10MHz_2565_fullIRB
_High_Q16



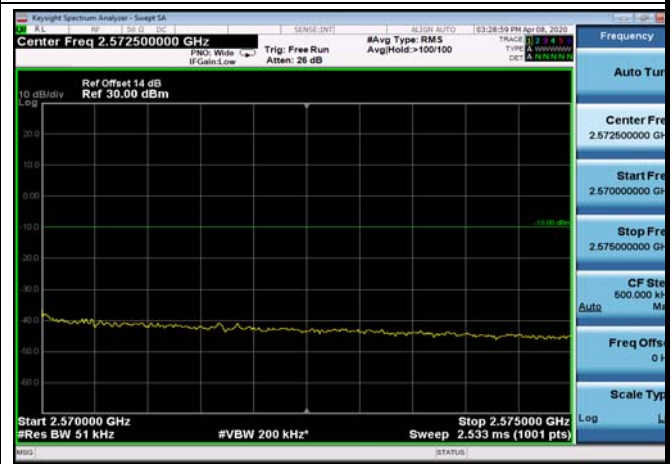
FDD07_10MHz_2565_QPSK_fullIRB_ExtraBan
ds_Range_2475~2490



FDD07_10MHz_2565_QPSK_fullIRB_ExtraBan
ds_Range_2490~2496

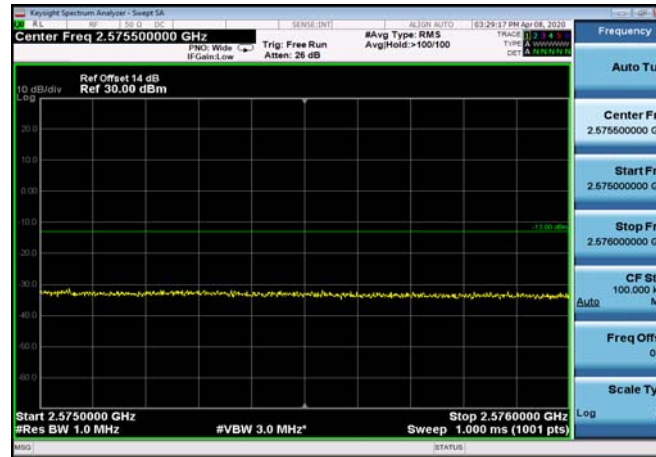


FDD07_10MHz_2565_QPSK_fullIRB_ExtraBan
ds_Range_2570~2575

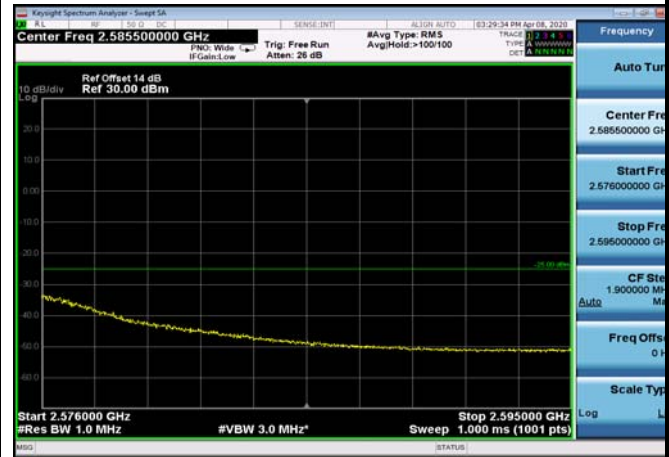




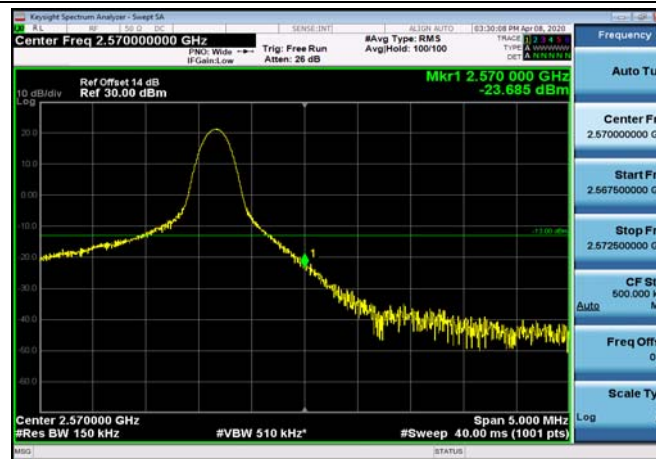
FDD07_10MHz_2565_QPSK_fullIRB_ExtraBan
ds_Range_2575~2576



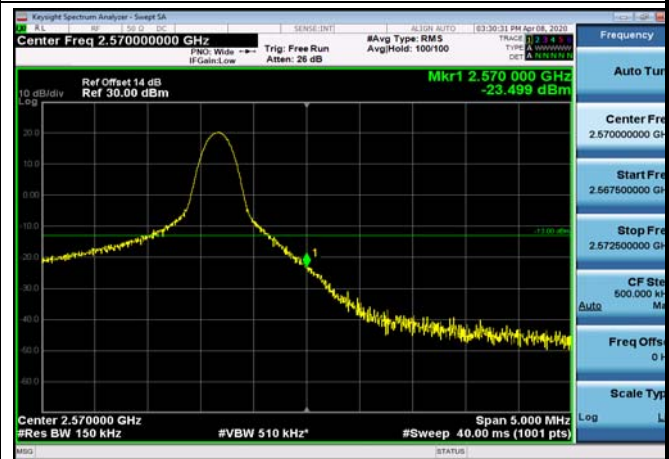
FDD07_10MHz_2565_QPSK_fullIRB_ExtraBan
ds_Range_2576~2595



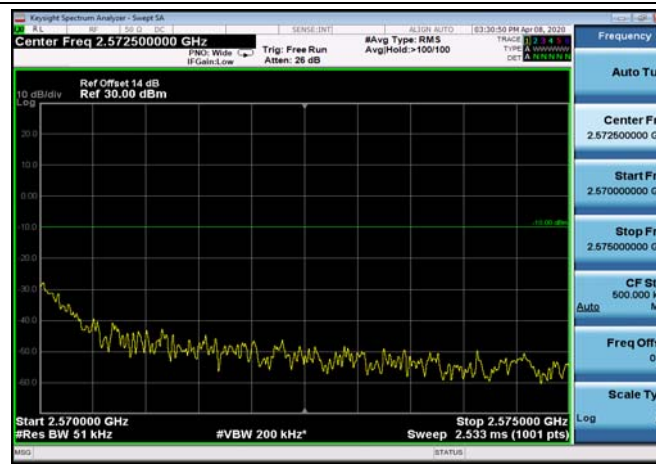
HighRange_FDD07_15MHz_2562.5_OneRB
_high_QPSK



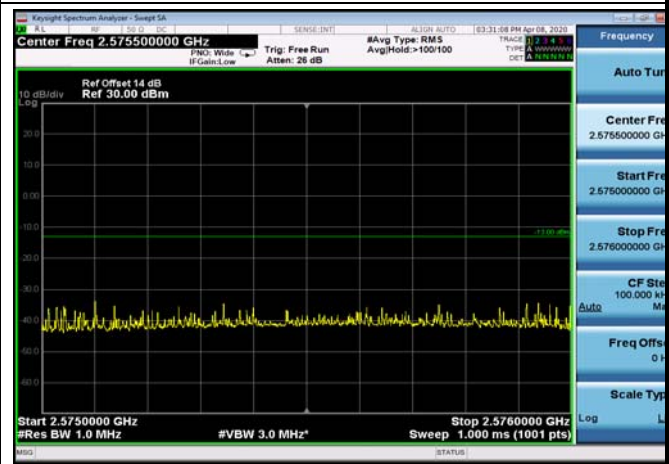
HighRange_FDD07_15MHz_2562.5_OneRB
_high_Q16



FDD07_15MHz_2562.5_Q16_OneRB_high
_ExtraBands_Range_2570~2575

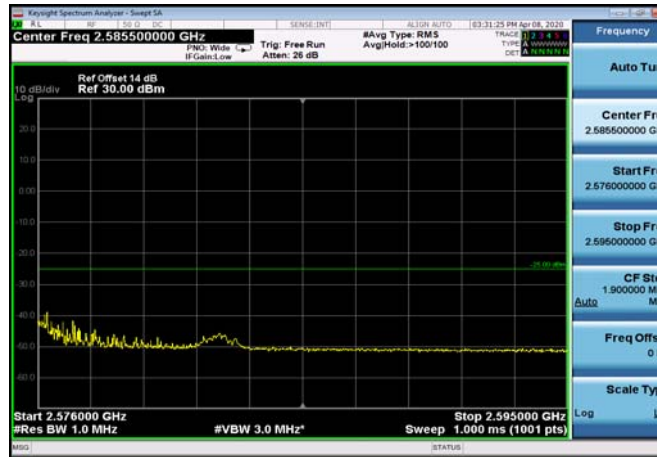


FDD07_15MHz_2562.5_Q16_OneRB_high
_ExtraBands_Range_2575~2576

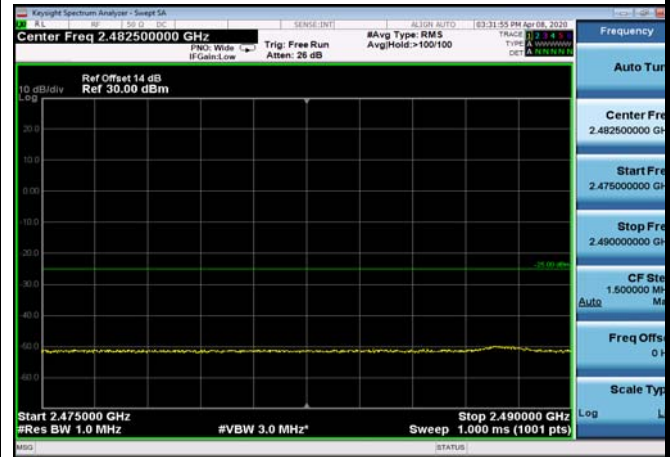




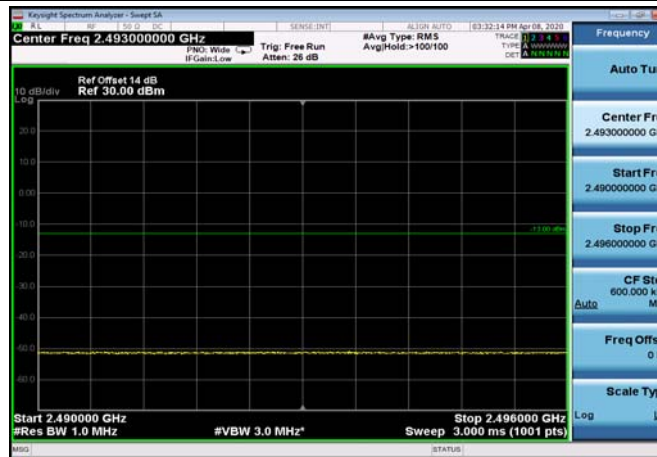
FDD07_15MHz_2562.5_Q16_OneRB_high
_ExtraBands_Range_2576~2595



FDD07_15MHz_2562.5_QPSK_OneRB_low
_ExtraBands_Range_2475~2490



FDD07_15MHz_2562.5_QPSK_OneRB_low
_ExtraBands_Range_2490~2496



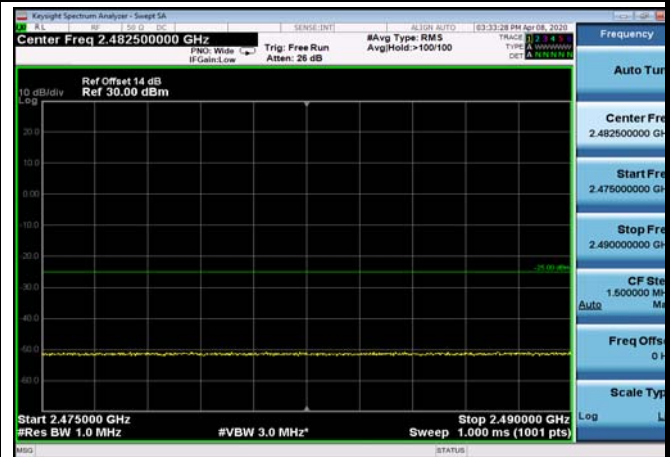
HighRange_FDD07_15MHz_2562.5_fullRB
_High_QPSK



HighRange_FDD07_15MHz_2562.5_fullRB
_High_Q16

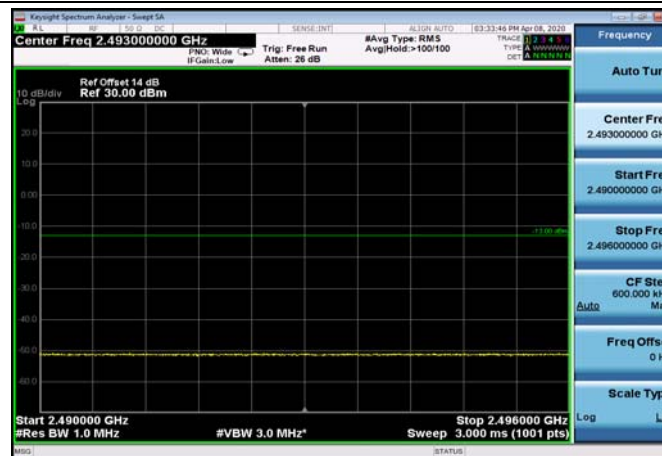


FDD07_15MHz_2562.5_QPSK_fullRB
_ExtraBands_Range_2475~2490

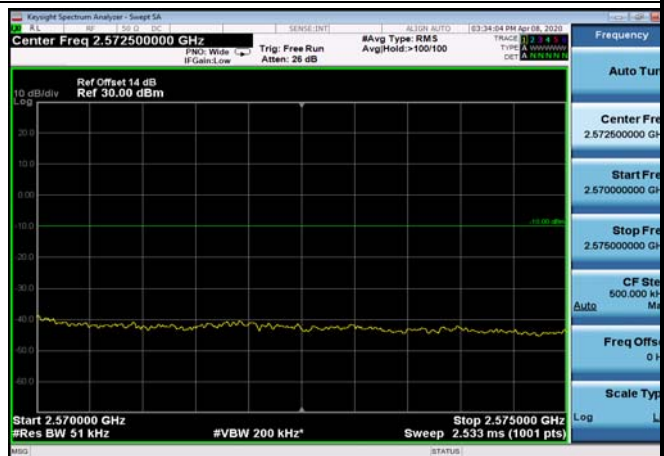




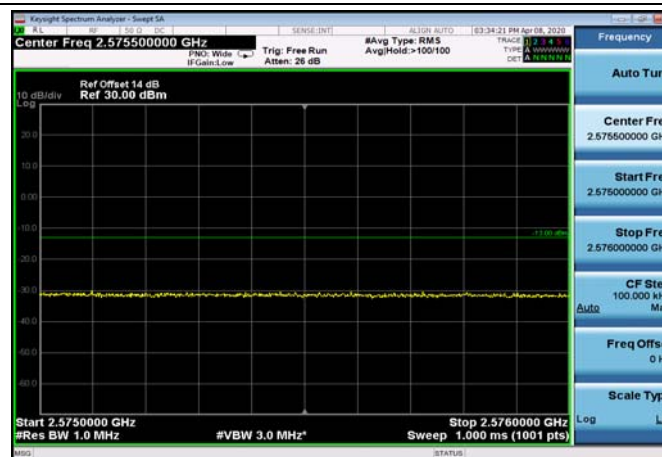
FDD07_15MHz_2562.5_QPSK_fullIRB
_ExtraBands_Range_2490~2496



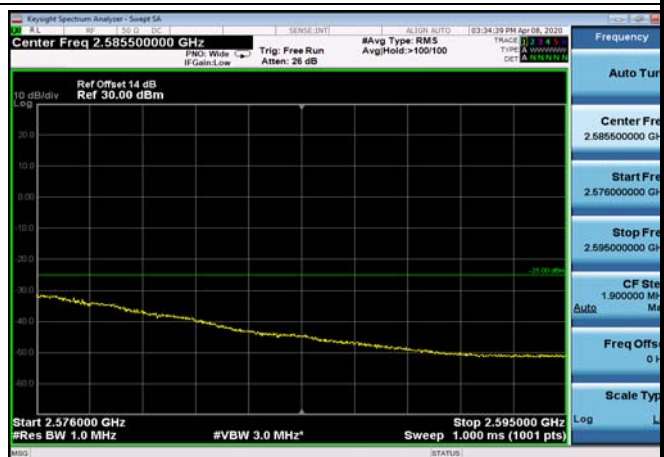
FDD07_15MHz_2562.5_QPSK_fullIRB
_ExtraBands_Range_2570~2575



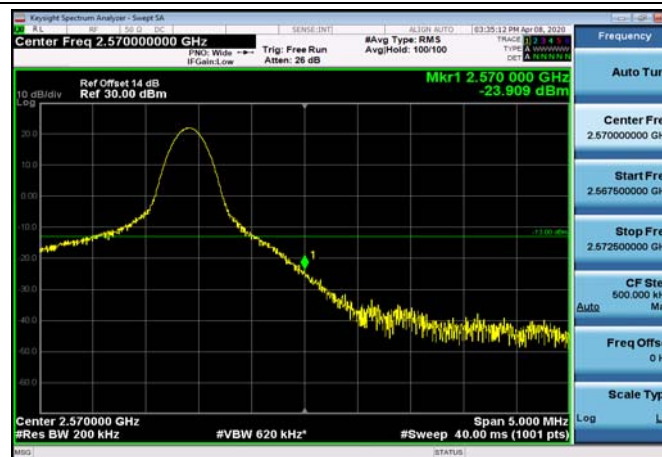
FDD07_15MHz_2562.5_QPSK_fullIRB
_ExtraBands_Range_2575~2576



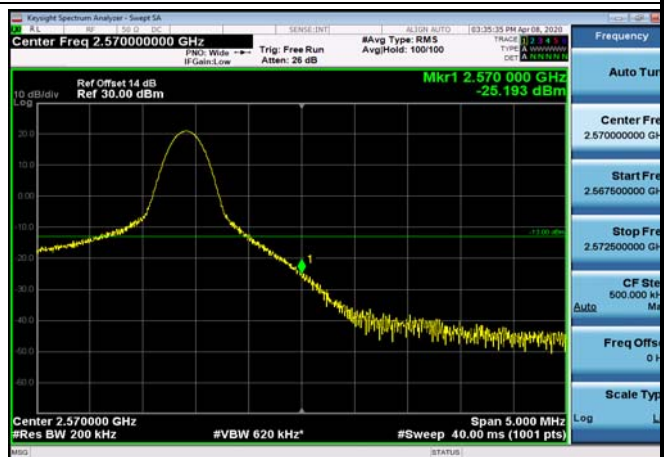
FDD07_15MHz_2562.5_QPSK_fullIRB
_ExtraBands_Range_2576~2595



HighRange_FDD07_20MHz_2560_OneRB
_high_QPSK

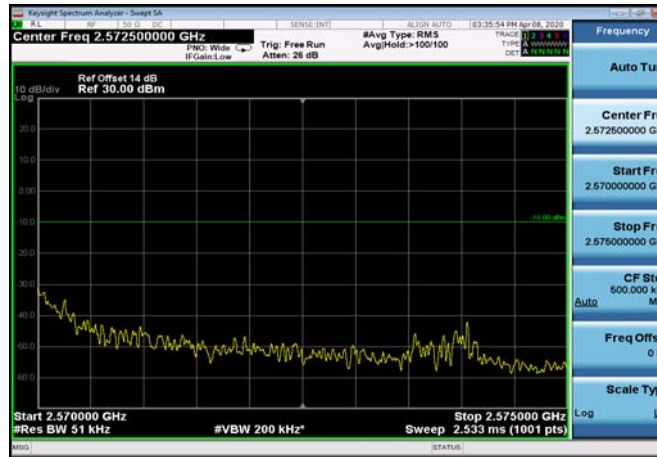


HighRange_FDD07_20MHz_2560_OneRB
_high_Q16

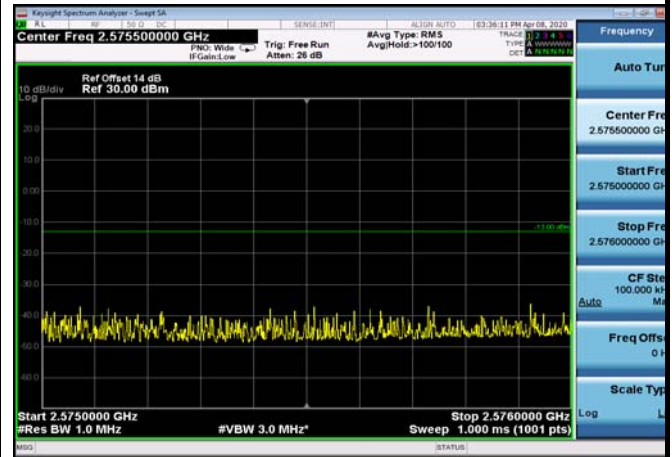




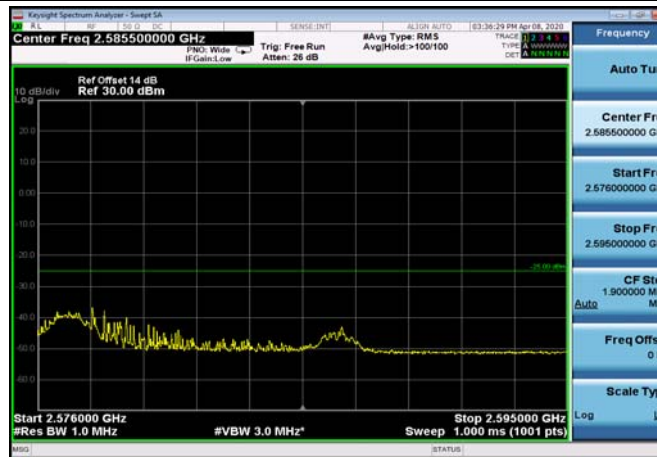
FDD07_20MHz_2560_Q16_OneRB_high
_ExtraBands_Range_2570~2575



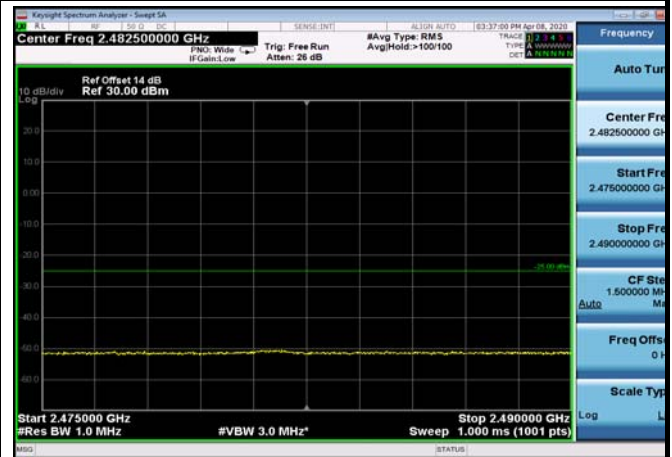
FDD07_20MHz_2560_Q16_OneRB_high
_ExtraBands_Range_2575~2576



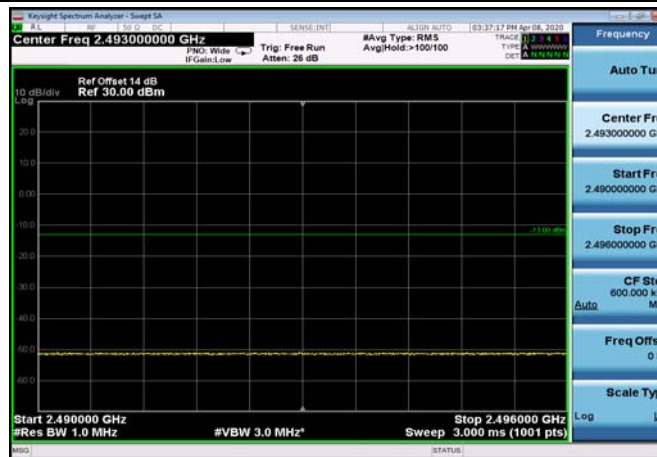
FDD07_20MHz_2560_Q16_OneRB_high
_ExtraBands_Range_2576~2595



FDD07_20MHz_2560_QPSK_OneRB_low
_ExtraBands_Range_2475~2490



FDD07_20MHz_2560_QPSK_OneRB_low
_ExtraBands_Range_2490~2496



HighRange_FDD07_20MHz_2560_fullIRB
_High_QPSK

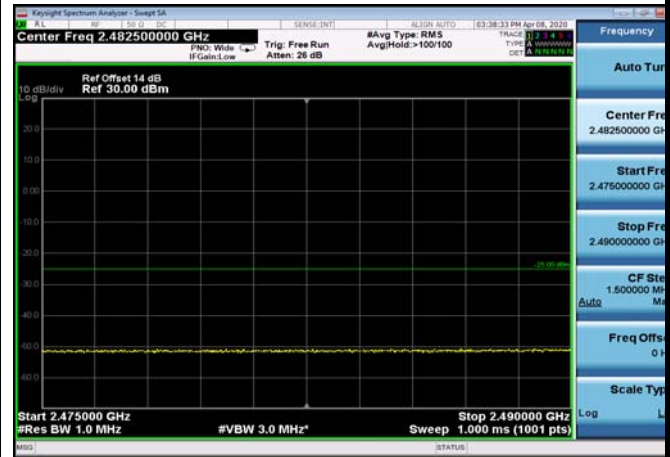




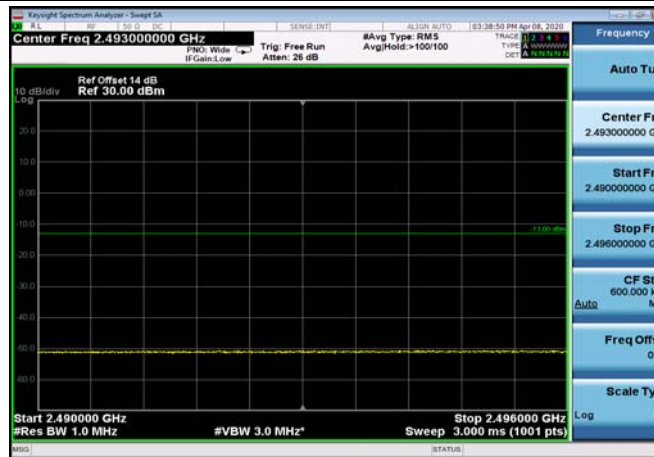
HighRange_ FDD07_20MHz_2560_fullIRB
_High_Q16



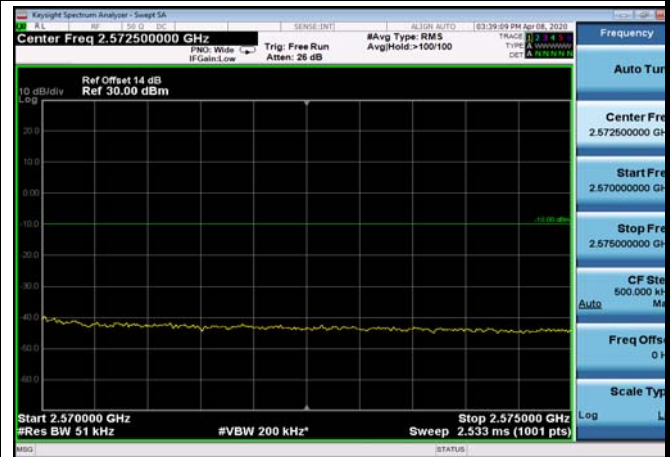
FDD07_20MHz_2560_QPSK_fullIRB_ExtraBan
ds_Range_2475~2490



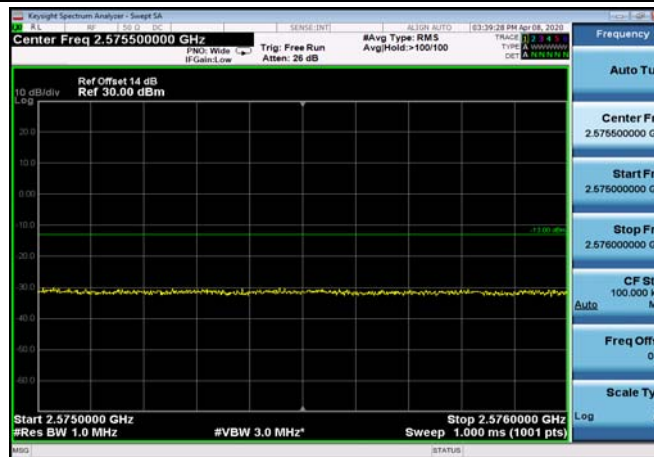
FDD07_20MHz_2560_QPSK_fullIRB_ExtraBan
ds_Range_2490~2496



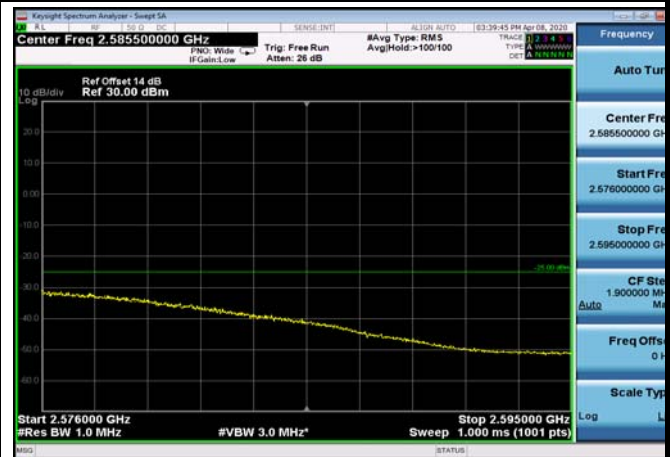
FDD07_20MHz_2560_QPSK_fullIRB_ExtraBan
ds_Range_2570~2575



FDD07_20MHz_2560_QPSK_fullIRB_ExtraBan
ds_Range_2575~2576



FDD07_20MHz_2560_QPSK_fullIRB_ExtraBan
ds_Range_2576~2595



** END OF REPORT **