TEST REPORT

FCC Sub6 n41 Test for SM-M356B/DS
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2403-FC011

DATE OF ISSUE
March 21, 2024

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TEST REPORT

REPORT NO.
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Additional Model
-

Applicant	**SAMSUNG Electronics Co., Ltd.** 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
Product Name Model Name	Mobile Phone SM-M356B/DS
Date of Test	February 19, 2024 ~ March 18, 2024
FCC ID	A3LSMM356B
Location of Test	■ Permanent Testing Lab ☐ On Site Testing (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 Republic of Korea)
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§ 27

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	March 21, 2024	Initial Release

Notice

Content
The measurements shown in this report were made in accordance with the procedures specified in CFR47 section § 2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)
The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated. The test results have only been applied with the test methods required by the standard(s). The laboratory is not accredited for the test results marked *. Information provided by the applicant is marked **. Test results provided by external providers are marked ***.
When confirmation of authenticity of this test report is required, please contact www.hct.co.kr
The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	SAMSUNG Electronics Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID:	A3LSMM356B
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§ 27
EUT Type:	Mobile phone
Model(s):	SM-M356B/DS
Additional Model(s)	-
SCS(kHz):	30
Bandwidth(MHz):	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
Waveform:	CP-OFDM, DFT-S-OFDM
Modulation:	DFT-S-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
Tx Frequency(SCS 30kHz):	2501.010 – 2685.000 : 10 MHz 2503.500 – 2682.480 : 15 MHz 2506.020 – 2679.990 : 20 MHz 2511.000 – 2674.980 : 30 MHz 2516.010 – 2670.000 : 40 MHz 2521.020 – 2664.990 : 50 MHz 2526.000 – 2659.980 : 60 MHz 2531.010 – 2655.000 : 70 MHz 2536.020 – 2649.990 : 80 MHz 2541.000 – 2644.980 : 90 MHz 2546.010 – 2640.000 : 100 MHz
Date(s) of Tests:	February 19, 2024 ~ March 18, 2024
Serial number:	Radiated : R3CX2042LJL Conducted : R3CX2042JMR

1.1. MAXIMUM OUTPUT POWER

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n41 (10)	2501.010 – 2685.000	8M71G7D	PI/2 BPSK	0.166	22.21
		8M70G7D	QPSK	0.165	22.18
		8M70W7D	16QAM	0.134	21.27
		8M70W7D	64QAM	0.093	19.70
		8M76W7D	256QAM	0.059	17.68
Sub6 n41 (15)	2503.500 – 2682.480	13M0G7D	PI/2 BPSK	0.166	22.19
		13M0G7D	QPSK	0.163	22.11
		13M0W7D	16QAM	0.127	21.04
		13M0W7D	64QAM	0.088	19.44
		13M0W7D	256QAM	0.056	17.51
Sub6 n41 (20)	2506.020 – 2679.990	18M0G7D	PI/2 BPSK	0.173	22.37
		18M0G7D	QPSK	0.171	22.34
		18M0W7D	16QAM	0.136	21.34
		18M0W7D	64QAM	0.095	19.77
		18M0W7D	256QAM	0.062	17.94
Sub6 n41 (30)	2511.000 – 2674.980	27M0G7D	PI/2 BPSK	0.169	22.29
		27M0G7D	QPSK	0.164	22.16
		27M0W7D	16QAM	0.132	21.21
		26M9W7D	64QAM	0.093	19.70
		27M0W7D	256QAM	0.058	17.61
Sub6 n41 (40)	2516.010 – 2670.000	36M0G7D	PI/2 BPSK	0.162	22.09
		35M9G7D	QPSK	0.161	22.07
		35M9W7D	16QAM	0.126	21.02
		35M9W7D	64QAM	0.090	19.52
		35M9W7D	256QAM	0.056	17.45
Sub6 n41 (50)	2521.020 – 2664.990	46M0G7D	PI/2 BPSK	0.156	21.93
		46M0G7D	QPSK	0.155	21.90
		45M8W7D	16QAM	0.126	21.02
		45M8W7D	64QAM	0.084	19.26
		46M1W7D	256QAM	0.054	17.30
Sub6 n41 (60)	2526.000 –	58M3G7D	PI/2 BPSK	0.152	21.81

	2659.980	58M3G7D	QPSK	0.149	21.74
		58M2W7D	16QAM	0.121	20.84
		58M1W7D	64QAM	0.086	19.34
		58M2W7D	256QAM	0.054	17.31
Sub6 n41 (70)	2531.010 – 2655.000	64M8G7D	PI/2 BPSK	0.160	22.04
		64M7G7D	QPSK	0.159	22.02
		64M8W7D	16QAM	0.127	21.05
		64M7W7D	64QAM	0.088	19.45
		64M7W7D	256QAM	0.055	17.37
Sub6 n41 (80)	2536.020 – 2649.990	77M5G7D	PI/2 BPSK	0.156	21.92
		77M5G7D	QPSK	0.155	21.90
		77M4W7D	16QAM	0.123	20.91
		77M5W7D	64QAM	0.086	19.33
		77M4W7D	256QAM	0.052	17.16
Sub6 n41 (90)	2541.000 – 2644.980	87M1G7D	PI/2 BPSK	0.156	21.93
		87M0G7D	QPSK	0.151	21.80
		87M0W7D	16QAM	0.125	20.96
		87M3W7D	64QAM	0.084	19.24
		87M0W7D	256QAM	0.054	17.34
Sub6 n41 (100)	2546.010 – 2640.000	96M8G7D	PI/2 BPSK	0.143	21.55
		96M8G7D	QPSK	0.142	21.53
		97M1W7D	16QAM	0.113	20.52
		96M8W7D	64QAM	0.081	19.08
		97M1W7D	256QAM	0.050	17.02

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

The EUT was a Mobile Phone with GSM/GPRS/EGPRS/UMTS and LTE, Sub 6.
It also supports IEEE 802.11 a/b/g/n/ac (20/40/80 MHz), Bluetooth, BT LE, iPA, NFC.

2.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.3. TEST FACILITY

The Fully-anechoic chamber and conducted measurement facility used to collect the radiated data are located at the **74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA.**

3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

Test Description	Test Procedure Used
Occupied Bandwidth	- KDB 971168 D01 v03r01 – Section 4.3 - ANSI C63.26-2015 – Section 5.4.4
Channel Edge	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Spurious and Harmonic Emissions at Antenna Terminal	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Conducted Output Power	- N/A (See SAR Report)
Peak- to- Average Ratio	- KDB 971168 D01 v03r01 – Section 5.7 - ANSI C63.26-2015 – Section 5.2.3.4 - ANSI C63.26-2015 – Section 5.2.6(only GSM)
Frequency stability	- ANSI C63.26-2015 – Section 5.6
Effective Radiated Power/ Effective Isotropic Radiated Power	- KDB 971168 D01 v03r01 – Section 5.2 & 5.8 - ANSI/TIA-603-E-2016 – Section 2.2.17
Radiated Spurious and Harmonic Emissions	- KDB 971168 D01 v03r01 – Section 6.2 - ANSI/TIA-603-E-2016 – Section 2.2.12

3.2 RADIATED POWER

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.
The equipment under test is placed on a non-conductive table 3-meters away from the receive antenna in accordance with ANSI/TIA-603-E-2016 Clause 2.2.17.

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5 % of the expected OBW, not to exceed 1 MHz
3. VBW ≥ 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points > 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

Test Note

1. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission.
2. A half wave dipole is then substituted in place of the EUT. For emissions above 1 GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.
   The power is calculated by the following formula;

$$P_{d\ (dBm)} = Pg_{\ (dBm)} - \text{cable loss}_{\ (dB)} + \text{antenna gain}_{\ (dB)}$$

   Where: P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.
3. The maximum value is calculated by adding the forward power to the calibrated source plus its appropriate gain value.
   These steps are repeated with the receiving antenna in both vertical and horizontal polarization.
   the difference between the gain of the horn and an isotropic antenna are taken into consideration
4. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
5. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

3.3 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA-603-E-2016.

Test Settings

1. RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz
2. VBW ≥ 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points > 2 x span / RBW
5. Detector = Peak
6. Trace mode = Max Hold
7. The trace was allowed to stabilize
8. Test channel : Low/ Middle/ High
9. Frequency range : We are performed all frequency to 10^{th} harmonics from 9 kHz.

Test Note

1. Measurements value show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
2. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
   The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the test data
3. For spurious emissions above 1 GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.
   The spurious emissions is calculated by the following formula;

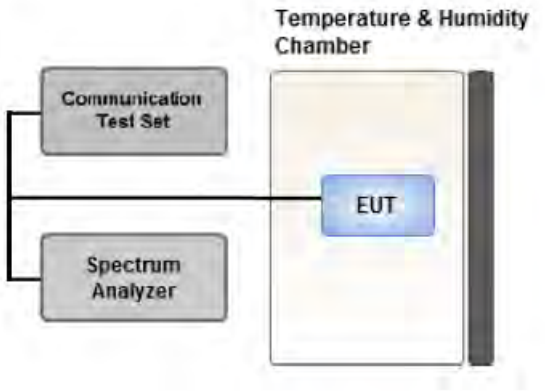
$$\text{Result}_{(dBm)} = Pg_{(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dBi)}$$

   Where: P_g is the generator output power into the substitution antenna.

   If the fundamental frequency is below 1 GHz, RF output power has been converted to EIRP.

$$EIRP_{(dBm)} = ERP_{(dBm)} + 2.15$$

3.4 PEAK- TO- AVERAGE RATIO



Test setup

① CCDF Procedure for PAPR

Test Settings

1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Set the measurement interval as follows:
   .- for continuous transmissions, set to 1 ms,
   .- or burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
4. Record the maximum PAPR level associated with a probability of 0.1 %.

② Alternate Procedure for PAPR

Use one of the procedures presented in 5.2(ANSI C63.26-2015) to measure the total peak power and record as P_{Pk}.

Use one of the applicable procedures presented 5.2(ANSI C63.26-2015) to measure the total average power and record as P_{Avg}. Determine the P.A.R. from:

$$P.A.R_{(dB)} = P_{Pk\ (dBm)} - P_{Avg\ (dBm)}\ (P_{Avg} = \text{Average Power} + \text{Duty cycle Factor})$$

Test Settings(Peak Power)

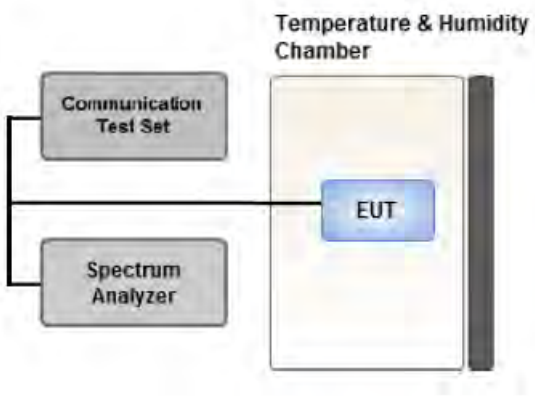
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW ≥ 3 × RBW.

1. Set the RBW ≥ OBW.
2. Set VBW ≥ 3 × RBW.
3. Set span ≥ 2 × OBW.
4. Sweep time ≥ 10 × (number of points in sweep) × (transmission symbol period).
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the peak amplitude level.

Test Settings(Average Power)

1. Set span to 2 × to 3 × the OBW.
2. Set RBW ≥ OBW.
3. Set VBW ≥ 3 × RBW.
4. Set number of measurement points in sweep ≥ 2 × span / RBW.
5. Sweep time:
   Set ≥ [10 × (number of points in sweep) × (transmission period)] for single sweep (automation-compatible) measurement. The transmission period is the (on + off) time.
6. Detector = power averaging (rms).
7. Set sweep trigger to "free run."
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. (To accurately determine the average power over the on and off period of the transmitter, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.)
9. Use the peak marker function to determine the maximum amplitude level.
10. Add [10 log (1/duty cycle)] to the measured maximum power level to compute the average power during continuous transmission. For example, add [10 log (1/0.25)] = 6 dB if the duty cycle is a constant 25 %.

3.5 OCCUPIED BANDWIDTH.



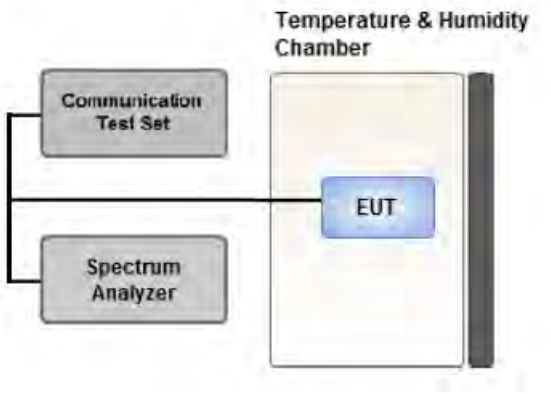
Test setup

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 power of a given emission.
The EUT makes a call to the communication simulator.
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99 % occupied bandwidth and the 26 dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5 % of the expected OBW
3. VBW ≥ 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5 % of the 99 % occupied bandwidth observed in Step 7

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

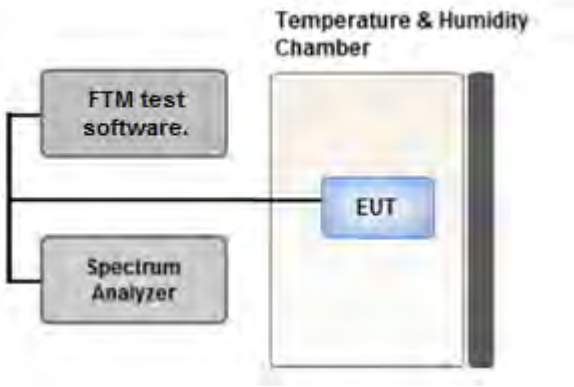
Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Settings

1. RBW = 1 MHz
2. VBW ≥ 3 MHz
3. Detector = RMS
4. Trace Mode = trace average
5. Sweep time = auto
6. Number of points in sweep ≥ 2 x Span / RBW

3.7 CHANNEL EDGE



Test setup

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum power and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Settings

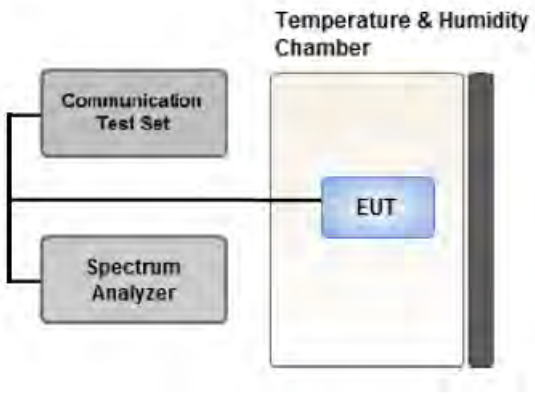
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Within 1 MHz of the channel edge the RBW should be 2 % of EBW, then 1 MHz after that.
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points ≥ 2 x Span/RBW
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Notes

1. 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,
2. 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge.
3. 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge.
4. The attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz.
5. 55 + 10 log (P) dB at or below 2490.5 MHz.
6. X is the greater of 6MHz or the actual emission bandwidth
7. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer

Where Margin < 1 dB the emission level is either corrected by 10 log(1 MHz/ RB) or the emission is integrated over a 1 MHz bandwidth to determine the final result. When using the integration method the integration window is either centered on the emission or, for emissions at the band edge, centered by an offset of 500 kHz from the block edge so that the integration window is the 1 MHz adjacent to the block edge.

3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015.
The frequency stability of the transmitter is measured by:

1. Temperature:
   The temperature is varied from -30 °C to +50 °C in 10 °C increments using an environmental chamber.
2. Primary Supply Voltage:
   .- Unless otherwise specified, vary primary supply voltage from 85 % to 115 % of the nominal value for other than hand carried battery equipment.
   .- For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20 °C to provide a reference).
2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter.
   Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10 °C intervals ranging from -30 °C to +50 °C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

3.9 WORST CASE(RADIATED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
  (Worst case: DFT-S-OFDM)
- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- All modes of operation were investigated and the worst case configuration results are reported.
  Mode: SA, NSA, SRS
  Worst case: SA
  Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)
  Worst case : Stand alone
- We were performed the RSE test in condition of co-location.
  Mode : Stand alone, Simultaneous transmission scenarios
  Worst case : Stand alone
- Radiated Spurious emissions are measured while operating in EN-DC mode with Sub 6 NR carrier as well as an LTE carrier (anchor).
  All EN-DC mode of operation (=anchor) were investigated and the test results were measured No Peak Found.
  The test results which are attenuated more than 20 dB below the permissible value, so it was not reported.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
  Please refer to the table below.

[Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Effective Isotropic Radiated Power	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	See Section 8.1		X
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 8.2		Z

3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
  (Worst case: DFT-S-OFDM)
- Modulation : All Modulation of operation were investigated and the worst case configuration results are reported.
  (Worst case: PI/2 BPSK)
- All modes of operation were investigated and the worst case configuration results are reported.
  Mode: SA, NSA, SRS
  Worst case: SA
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
  Please refer to the table below.

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth, Peak-To-Average Ratio	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	10, 15, 20, 30, 40, 50, 60, 80, 90, 100	Mid	Full RB	0
Channel Edge	PI/2 BPSK	10	Low	1	0
			High	1	23
		15	Low	1	0
			High	1	37
		20	Low	1	0
			High	1	50
		30	Low	1	0
			High	1	77
		40	Low	1	0
			High	1	105
		50	Low	1	0
			High	1	132
		60	Low	1	0
			High	1	161
		70	Low	1	0
			High	1	188
		80	Low	1	0
			High	1	216
		90	Low	1	0
			High	1	244
		100	Low	1	0
			High	1	272
		10, 15, 20, 30, 40, 50, 60, 80, 90, 100	Low, Mid High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	PI/2 BPSK	10, 15, 20, 30, 40, 50, 60, 80, 90, 100	Low, Mid, High	1	1

4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
Precision Dipole Antenna	UHAP	Schwarzbeck	01273	03/10/2026	Biennial
Precision Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	02289	02/14/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	9120D-1299	04/27/2025	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/29/2024	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/28/2025	Biennial
Loop Antenna(9 kHz~30 MHz)	FMZB1513	Rohde & Schwarz	1513-175	01/16/2025	Biennial
Bilog Antenna	VULB9160	Schwarzbeck	3150	03/09/2025	Biennial
Hybrid Antenna	VULB9160	Schwarzbeck	760	02/24/2025	Biennial
RF Switching System	FBSR-06B (1G HPF + LNA)	T&M SYSTEM	F3L1	05/22/2024	Annual
RF Switching System	FBSR-06B (3G HPF + LNA)	T&M SYSTEM	F3L2	05/22/2024	Annual
RF Switching System	FBSR-06B (6G HPF + LNA)	T&M SYSTEM	F3L3	05/22/2024	Annual
RF Switching System	FBSR-06B (LNA)	T&M SYSTEM	F3L4	05/22/2024	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/17/2024	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/26/2025	Annual
DC Power Supply	E3632A	Hewlett Packard	MY40004427	08/25/2024	Annual
Power Splitter(DC~26.5 GHz)	11667B	Hewlett Packard	11275	02/29/2025	Annual
Chamber	SU-642	ESPEC	93008124	02/19/2025	Annual
Signal Analyzer(10 Hz~26.5 GHz)	N9020A	Agilent	MY51110063	04/11/2024	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/19/2024	Annual
Spectrum Analyzer(10 Hz~40 GHz)	FSV40	REOHDE & SCHWARZ	101436	02/13/2025	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/10/2024	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/22/2024	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6262302511	05/23/2024	Annual
SIGNAL GENERATOR (100 kHz~40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	06/22/2024	Annual
Signal Analyzer(5 Hz~40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/24/2024	Annual
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/19/2024	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.,	-	-	-

Note:

1. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
2. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2017).

5. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4:2014.

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty (±dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.98 (Confidence level about 95 %, k=2)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.36 (Confidence level about 95 %, k=2)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.70 (Confidence level about 95 %, k=2)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.52 (Confidence level about 95 %, k=2)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.66 (Confidence level about 95 %, k=2)
Radiated Disturbance (Above 40 GHz)	5.58 (Confidence level about 95 %, k=2)

6. SUMMARY OF TEST RESULTS

6.1 Test Condition: Conducted Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Occupied Bandwidth	§ 2.1049	N/A	PASS
Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§ 2.1051, § 27.53(m)(4)	■ < 40 + 10log10 (P[Watts]) at Channel edges ■ < 43 + 10log10 (P[Watts]) between 5 and X MHz from Channel edges ■ < 55 + 10log10 (P[Watts]) beyond X MHz beyond from Channel edges ■ < 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz	PASS
Conducted Output Power	§ 2.1046	N/A	See Note1
Frequency stability / variation of ambient temperature	§ 2.1055, § 27.54	Emission must remain in band	PASS

Note:

1. See SAR Report

2. All conducted tests were tested using 5G Wireless Tester.

6.2 Test Condition: Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Equivalent Isotropic Radiated Power	§ 27.50(h)(2)	< 2 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 27.53(m)(4)	< 55 + 10log10 (P[Watts])	PASS

Note:

1. Radiated tests were tested using 5G Wireless Tester.

7. SAMPLE CALCULATION

7.1 ERP Sample Calculation

Ch./ Freq.		Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol.	ERP	
channel	Freq.(MHz)						W	dBm
128	824.20	-21.37	38.40	-10.61	0.95	H	0.483	26.84

ERP = Substitute LEVEL(dBm) + Ant. Gain – CL(Cable Loss)

1) The EUT mounted on a non-conductive turntable is 2.5 meter above test site ground level.
2) During the test, the turn table is rotated until the maximum signal is found.
3) Record the field strength meter's level.
4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
6) The signal generator output level with Ant. Gain and cable loss are the rating of effective radiated power.

7.2 EIRP Sample Calculation

Ch./ Freq.		Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	EIRP	
channel	Freq.(MHz)						W	dBm
20175	1,732.50	-15.75	18.45	9.90	1.76	H	0.456	26.59

EIRP = Substitute LEVEL(dBm) + Ant. Gain – CL(Cable Loss)

1) The EUT mounted on a non-conductive turntable is 2.5 meter above test site ground level.
2) During the test, the turn table is rotated until the maximum signal is found.
3) Record the field strength meter's level.
4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
6) The signal generator output level with Ant. Gain and cable loss are the rating of equivalent isotropic radiated power.

7.3. Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW
GSM BW = 249 kHz
G = Phase Modulation
X = Cases not otherwise covered
W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 249KG7W
GSM BW = 249 kHz
G = Phase Modulation
7 = Quantized/Digital Info
W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W
WCDMA BW = 4.17 MHz
F = Frequency Modulation
9 = Composite Digital Info
W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D
LTE BW = 4.48 MHz
G = Phase Modulation
7 = Quantized/Digital Info
D = Data transmission; telemetry; telecommand

QAM Modulation

Emission Designator = 4M48W7D
LTE BW = 4.48 MHz
W = Amplitude/Angle Modulated
7 = Quantized/Digital Info
D = Data transmission; telemetry; telecommand

8. TEST DATA

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2501.010	Sub6 41/ 10 MHz [30 kHz]	PI/2 BPSK	-22.26	14.38	10.30	2.47	H	< 2.00	0.166	22.21	1	12
		QPSK	-22.29	14.35	10.30	2.47	H		0.165	22.18		
		16-QAM	-23.20	13.44	10.30	2.47	H		0.134	21.27		
		64-QAM	-24.77	11.87	10.30	2.47	H		0.093	19.70		
		256-QAM	-26.79	9.85	10.30	2.47	H		0.059	17.68		
2592.990		PI/2 BPSK	-22.61	13.69	10.05	2.50	H		0.133	21.24	1	1
		QPSK	-22.73	13.57	10.05	2.50	H		0.129	21.12		
		16-QAM	-23.78	12.52	10.05	2.50	H		0.102	20.07		
		64-QAM	-25.20	11.10	10.05	2.50	H		0.073	18.65		
		256-QAM	-26.86	9.44	10.05	2.50	H		0.050	16.99		
2685.000		PI/2 BPSK	-24.86	12.60	10.10	2.58	H		0.103	20.12	1	12
		QPSK	-25.11	12.35	10.10	2.58	H		0.097	19.87		
		16-QAM	-26.01	11.45	10.10	2.58	H		0.079	18.97		
		64-QAM	-27.61	9.85	10.10	2.58	H		0.055	17.37		
		256-QAM	-29.56	7.90	10.10	2.58	H		0.035	15.42		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2503.500	Sub6 41/ 15 MHz [30 kHz]	PI/2 BPSK	-22.26	14.37	10.30	2.48	H	< 2.00	0.166	22.19	1	36
		QPSK	-22.34	14.29	10.30	2.48	H		0.163	22.11		
		16-QAM	-23.41	13.22	10.30	2.48	H		0.127	21.04		
		64-QAM	-25.01	11.62	10.30	2.48	H		0.088	19.44		
		256-QAM	-26.94	9.69	10.30	2.48	H		0.056	17.51		
2592.990		PI/2 BPSK	-22.25	14.05	10.05	2.50	H		0.145	21.60	1	1
		QPSK	-22.29	14.01	10.05	2.50	H		0.143	21.56		
		16-QAM	-23.33	12.97	10.05	2.50	H		0.113	20.52		
		64-QAM	-24.71	11.59	10.05	2.50	H		0.082	19.14		
		256-QAM	-26.71	9.59	10.05	2.50	H		0.052	17.14		
2682.480		PI/2 BPSK	-24.73	12.98	10.10	2.58	H		0.112	20.50	1	19
		QPSK	-24.76	12.95	10.10	2.58	H		0.111	20.47		
		16-QAM	-25.89	11.82	10.10	2.58	H		0.086	19.34		
		64-QAM	-27.34	10.37	10.10	2.58	H		0.062	17.89		
		256-QAM	-29.68	8.03	10.10	2.58	H		0.036	15.55		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2506.020	Sub6 41/ 20 MHz [30 kHz]	PI/2 BPSK	-22.08	14.55	10.30	2.48	H	< 2.00	0.173	22.37	1	49
		QPSK	-22.11	14.52	10.30	2.48	H		0.171	22.34		
		16-QAM	-23.11	13.52	10.30	2.48	H		0.136	21.34		
		64-QAM	-24.68	11.95	10.30	2.48	H		0.095	19.77		
		256-QAM	-26.51	10.12	10.30	2.48	H		0.062	17.94		
2592.990		PI/2 BPSK	-22.36	13.94	10.05	2.50	H		0.141	21.49	1	1
		QPSK	-22.43	13.87	10.05	2.50	H		0.139	21.42		
		16-QAM	-23.26	13.04	10.05	2.50	H		0.115	20.59		
		64-QAM	-25.03	11.27	10.05	2.50	H		0.076	18.82		
		256-QAM	-26.76	9.54	10.05	2.50	H		0.051	17.09		
2679.990		PI/2 BPSK	-24.88	12.83	10.10	2.58	H		0.108	20.35	1	49
		QPSK	-24.89	12.82	10.10	2.58	H		0.108	20.34		
		16-QAM	-25.98	11.73	10.10	2.58	H		0.084	19.25		
		64-QAM	-27.46	10.25	10.10	2.58	H		0.060	17.77		
		256-QAM	-29.69	8.02	10.10	2.58	H		0.036	15.54		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2511.000	Sub6 41/ 30 MHz [30 kHz]	PI/2 BPSK	-22.13	14.49	10.30	2.50	H	< 2.00	0.169	22.29	1	76
		QPSK	-22.26	14.36	10.30	2.50	H		0.164	22.16		
		16-QAM	-23.21	13.41	10.30	2.50	H		0.132	21.21		
		64-QAM	-24.72	11.90	10.30	2.50	H		0.093	19.70		
		256-QAM	-26.81	9.81	10.30	2.50	H		0.058	17.61		
2592.990		PI/2 BPSK	-22.08	14.22	10.05	2.50	H		0.150	21.77	1	1
		QPSK	-22.16	14.14	10.05	2.50	H		0.148	21.69		
		16-QAM	-23.10	13.20	10.05	2.50	H		0.119	20.75		
		64-QAM	-24.71	11.59	10.05	2.50	H		0.082	19.14		
		256-QAM	-26.59	9.71	10.05	2.50	H		0.053	17.26		
2674.980		PI/2 BPSK	-24.84	12.57	10.10	2.58	H		0.102	20.09	1	39
		QPSK	-24.96	12.45	10.10	2.58	H		0.099	19.97		
		16-QAM	-26.06	11.35	10.10	2.58	H		0.077	18.87		
		64-QAM	-27.43	9.98	10.10	2.58	H		0.056	17.50		
		256-QAM	-29.41	8.00	10.10	2.58	H		0.036	15.52		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2516.010	Sub6 41/ 40 MHz [30 kHz]	PI/2 BPSK	-22.19	14.30	10.30	2.51	H	< 2.00	0.162	22.09	1	104
		QPSK	-22.21	14.28	10.30	2.51	H		0.161	22.07		
		16-QAM	-23.26	13.23	10.30	2.51	H		0.126	21.02		
		64-QAM	-24.76	11.73	10.30	2.51	H		0.090	19.52		
		256-QAM	-26.83	9.66	10.30	2.51	H		0.056	17.45		
2592.990		PI/2 BPSK	-22.31	13.99	10.05	2.50	H		0.143	21.54	1	1
		QPSK	-22.33	13.97	10.05	2.50	H		0.142	21.52		
		16-QAM	-23.36	12.94	10.05	2.50	H		0.112	20.49		
		64-QAM	-25.05	11.25	10.05	2.50	H		0.076	18.80		
		256-QAM	-26.91	9.39	10.05	2.50	H		0.049	16.94		
2670.000		PI/2 BPSK	-24.71	12.41	10.10	2.58	H		0.098	19.93	1	1
		QPSK	-24.90	12.22	10.10	2.58	H		0.094	19.74		
		16-QAM	-25.80	11.32	10.10	2.58	H		0.077	18.84		
		64-QAM	-27.21	9.91	10.10	2.58	H		0.055	17.43		
		256-QAM	-29.61	7.51	10.10	2.58	H		0.032	15.03		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2521.020	Sub6 41/ 50 MHz [30 kHz]	PI/2 BPSK	-22.21	14.46	10.00	2.53	H	< 2.00	0.156	21.93	1	131
		QPSK	-22.24	14.43	10.00	2.53	H		0.155	21.90		
		16-QAM	-23.12	13.55	10.00	2.53	H		0.126	21.02		
		64-QAM	-24.88	11.79	10.00	2.53	H		0.084	19.26		
		256-QAM	-26.84	9.83	10.00	2.53	H		0.054	17.30		
2592.990		PI/2 BPSK	-22.36	13.94	10.05	2.50	H		0.141	21.49	1	1
		QPSK	-22.40	13.90	10.05	2.50	H		0.140	21.45		
		16-QAM	-23.41	12.89	10.05	2.50	H		0.111	20.44		
		64-QAM	-24.81	11.49	10.05	2.50	H		0.080	19.04		
		256-QAM	-26.85	9.45	10.05	2.50	H		0.050	17.00		
2664.990		PI/2 BPSK	-24.87	12.22	10.10	2.60	H		0.094	19.72	1	1
		QPSK	-25.04	12.05	10.10	2.60	H		0.090	19.55		
		16-QAM	-25.91	11.18	10.10	2.60	H		0.074	18.68		
		64-QAM	-27.24	9.85	10.10	2.60	H		0.054	17.35		
		256-QAM	-29.46	7.63	10.10	2.60	H		0.033	15.13		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2526.000	Sub6 41/ 60 MHz [30 kHz]	PI/2 BPSK	-22.24	14.02	10.30	2.53	H	< 2.00	0.151	21.79	1	160
		QPSK	-22.31	13.95	10.30	2.53	H		0.149	21.72		
		16-QAM	-23.20	13.06	10.30	2.53	H		0.121	20.83		
		64-QAM	-24.91	11.35	10.30	2.53	H		0.082	19.12		
		256-QAM	-26.81	9.45	10.30	2.53	H		0.053	17.22		
2592.990		PI/2 BPSK	-22.04	14.26	10.05	2.50	H		0.152	21.81	1	1
		QPSK	-22.11	14.19	10.05	2.50	H		0.149	21.74		
		16-QAM	-23.01	13.29	10.05	2.50	H		0.121	20.84		
		64-QAM	-24.51	11.79	10.05	2.50	H		0.086	19.34		
		256-QAM	-26.54	9.76	10.05	2.50	H		0.054	17.31		
2659.980		PI/2 BPSK	-24.66	12.19	10.10	2.61	H		0.093	19.68	1	1
		QPSK	-24.68	12.17	10.10	2.61	H		0.092	19.66		
		16-QAM	-25.63	11.22	10.10	2.61	H		0.074	18.71		
		64-QAM	-26.99	9.86	10.10	2.61	H		0.054	17.35		
		256-QAM	-29.31	7.54	10.10	2.61	H		0.032	15.03		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2531.010	Sub6 41/ 70 MHz [30 kHz]	PI/2 BPSK	-21.86	14.26	10.30	2.52	H	< 2.00	0.160	22.04	1	187
		QPSK	-21.88	14.24	10.30	2.52	H		0.159	22.02		
		16-QAM	-22.85	13.27	10.30	2.52	H		0.127	21.05		
		64-QAM	-24.45	11.67	10.30	2.52	H		0.088	19.45		
		256-QAM	-26.53	9.59	10.30	2.52	H		0.055	17.37		
2592.990		PI/2 BPSK	-22.36	13.94	10.05	2.50	H		0.141	21.49	1	1
		QPSK	-22.38	13.92	10.05	2.50	H		0.140	21.47		
		16-QAM	-23.31	12.99	10.05	2.50	H		0.113	20.54		
		64-QAM	-24.63	11.67	10.05	2.50	H		0.084	19.22		
		256-QAM	-26.90	9.40	10.05	2.50	H		0.050	16.95		
2655.000		PI/2 BPSK	-23.71	13.05	10.10	2.63	H		0.118	20.72	1	1
		QPSK	-23.62	13.14	10.10	2.63	H		0.115	20.61		
		16-QAM	-24.61	12.15	10.10	2.63	H		0.092	19.62		
		64-QAM	-26.14	10.62	10.10	2.63	H		0.064	18.09		
		256-QAM	-28.29	8.47	10.10	2.63	H		0.039	15.94		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2536.020	Sub6 41/ 80 MHz [30 kHz]	PI/2 BPSK	-22.10	14.14	10.30	2.52	H	< 2.00	0.156	21.92	1	215
		QPSK	-22.12	14.12	10.30	2.52	H		0.155	21.90		
		16-QAM	-23.11	13.13	10.30	2.52	H		0.123	20.91		
		64-QAM	-24.69	11.55	10.30	2.52	H		0.086	19.33		
		256-QAM	-26.86	9.38	10.30	2.52	H		0.052	17.16		
2592.990		PI/2 BPSK	-22.46	13.84	10.05	2.50	H		0.138	21.39	1	1
		QPSK	-22.49	13.81	10.05	2.50	H		0.137	21.36		
		16-QAM	-23.55	12.75	10.05	2.50	H		0.107	20.30		
		64-QAM	-24.81	11.49	10.05	2.50	H		0.080	19.04		
		256-QAM	-26.91	9.39	10.05	2.50	H		0.049	16.94		
2649.990		PI/2 BPSK	-22.71	13.96	10.10	2.65	H		0.138	21.41	1	1
		QPSK	-22.78	13.89	10.10	2.65	H		0.136	21.34		
		16-QAM	-23.86	12.81	10.10	2.65	H		0.106	20.26		
		64-QAM	-25.19	11.48	10.10	2.65	H		0.078	18.93		
		256-QAM	-27.14	9.53	10.10	2.65	H		0.050	16.98		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2541.000	Sub6 41/ 90 MHz [30 kHz]	PI/2 BPSK	-22.21	14.15	10.30	2.52	H	< 2.00	0.156	21.93	1	243
		QPSK	-22.34	14.02	10.30	2.52	H		0.151	21.80		
		16-QAM	-23.18	13.18	10.30	2.52	H		0.125	20.96		
		64-QAM	-24.96	11.40	10.30	2.52	H		0.083	19.18		
		256-QAM	-26.91	9.45	10.30	2.52	H		0.053	17.23		
2592.990		PI/2 BPSK	-22.11	14.19	10.05	2.50	H		0.149	21.74	1	1
		QPSK	-22.16	14.14	10.05	2.50	H		0.148	21.69		
		16-QAM	-22.99	13.31	10.05	2.50	H		0.122	20.86		
		64-QAM	-24.61	11.69	10.05	2.50	H		0.084	19.24		
		256-QAM	-26.51	9.79	10.05	2.50	H		0.054	17.34		
2644.980		PI/2 BPSK	-22.41	14.40	10.00	2.66	H		0.149	21.74	1	1
		QPSK	-22.42	14.39	10.00	2.66	H		0.149	21.73		
		16-QAM	-23.63	13.18	10.00	2.66	H		0.113	20.52		
		64-QAM	-25.16	11.65	10.00	2.66	H		0.079	18.99		
		256-QAM	-26.86	9.95	10.00	2.66	H		0.054	17.29		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
2546.010	Sub6 41/ 100 MHz [30 kHz]	PI/2 BPSK	-22.54	13.83	10.25	2.54	H	< 2.00	0.143	21.54	1	271
		QPSK	-22.58	13.79	10.25	2.54	H		0.141	21.50		
		16-QAM	-23.63	12.74	10.25	2.54	H		0.111	20.45		
		64-QAM	-25.16	11.21	10.25	2.54	H		0.078	18.92		
		256-QAM	-27.06	9.31	10.25	2.54	H		0.050	17.02		
2592.990		PI/2 BPSK	-22.31	13.99	10.05	2.50	H		0.143	21.54	1	1
		QPSK	-22.41	13.89	10.05	2.50	H		0.139	21.44		
		16-QAM	-23.33	12.97	10.05	2.50	H		0.113	20.52		
		64-QAM	-24.90	11.40	10.05	2.50	H		0.079	18.95		
		256-QAM	-26.86	9.44	10.05	2.50	H		0.050	16.99		
2640.000		PI/2 BPSK	-22.63	14.32	9.90	2.67	H		0.143	21.55	1	1
		QPSK	-22.65	14.30	9.90	2.67	H		0.142	21.53		
		16-QAM	-23.66	13.29	9.90	2.67	H		0.113	20.52		
		64-QAM	-25.10	11.85	9.90	2.67	H		0.081	19.08		
		256-QAM	-27.18	9.77	9.90	2.67	H		0.050	17.00		

8.2 RADIATED SPURIOUS EMISSIONS

▣ NR Band: n41

▣ Bandwidth: 10 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meter

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
500202 (2501.010)	5 002.02	-58.18	10.70	-59.53	3.63	H	-52.46	-25.00	1	12
	7 503.03	-64.10	11.10	-57.09	4.50	V	-50.49	-25.00		
	10 004.04	-61.91	11.20	-53.45	5.26	V	-47.51	-25.00		
	12 505.05	-63.63	12.10	-54.29	6.04	V	-48.23	-25.00		
	15 006.06	-60.68	13.80	-54.08	6.65	V	-46.93	-25.00		
518598 (2592.990)	5 185.98	-56.96	11.00	-58.46	3.70	H	-51.16	-25.00	1	1
	7 778.97	-64.81	10.90	-57.43	4.61	H	-51.14	-25.00		
	10 371.96	-64.00	11.20	-53.30	5.41	H	-47.51	-25.00		
	12 964.95	-63.50	12.00	-53.57	6.11	H	-47.68	-25.00		
	15 557.94	-59.37	15.40	-54.04	6.77	V	-45.41	-25.00		
537000 (2685.000)	5 370.00	-62.01	11.50	-64.53	3.74	V	-56.77	-25.00	1	12
	8 055.00	-61.75	10.90	-54.54	4.71	V	-48.35	-25.00		
	10 740.00	-63.90	11.10	-53.30	5.50	V	-47.70	-25.00		
	13 425.00	-62.79	11.80	-51.94	6.22	V	-46.36	-25.00		
	16 110.00	-63.36	15.70	-54.22	6.91	V	-45.43	-25.00		

▣ NR Band: n41

▣ Bandwidth: 15 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meter

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
500700 (2503.500)	5 007.00	-62.20	10.70	-63.48	3.61	H	-56.39	-25.00	1	36
	7 510.50	-64.44	11.10	-57.37	4.50	H	-50.77	-25.00		
	10 014.00	-61.95	11.20	-53.34	5.27	H	-47.41	-25.00		
	12 517.50	-64.13	12.10	-54.50	6.04	H	-48.44	-25.00		
	15 021.00	-59.90	13.80	-53.42	6.65	H	-46.27	-25.00		
518598 (2592.990)	5 185.98	-56.67	11.00	-58.17	3.70	H	-50.87	-25.00	1	1
	7 778.97	-64.75	10.90	-57.37	4.61	H	-51.08	-25.00		
	10 371.96	-62.35	11.20	-51.65	5.41	H	-45.86	-25.00		
	12 964.95	-64.41	12.00	-54.48	6.11	H	-48.59	-25.00		
	15 557.94	-59.74	15.40	-54.41	6.77	H	-45.78	-25.00		
536496 (2682.480)	5 364.96	-59.78	11.50	-62.07	3.75	H	-54.32	-25.00	1	19
	8 047.44	-61.19	10.85	-54.01	4.69	H	-47.85	-25.00		
	10 729.92	-64.63	11.10	-53.40	5.47	H	-47.77	-25.00		
	13 412.40	-62.93	11.80	-52.26	6.21	H	-46.67	-25.00		
	16 094.88	-63.36	15.60	-53.90	6.91	H	-45.21	-25.00		

▣ NR Band: n41

▣ Bandwidth: 20 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
501204 (2506.020)	5 012.04	-57.82	10.70	-59.03	3.59	H	-51.92	-25.00	1	49
	7 518.06	-65.36	11.10	-58.25	4.51	H	-51.66	-25.00		
	10 024.08	-62.32	11.20	-53.50	5.27	H	-47.57	-25.00		
	12 530.10	-63.46	12.10	-53.64	6.01	H	-47.55	-25.00		
	15 036.12	-58.83	13.80	-52.59	6.65	H	-45.44	-25.00		
518598 (2592.990)	5 185.98	-58.08	11.00	-59.58	3.70	H	-52.28	-25.00	1	1
	7 778.97	-65.03	10.90	-57.65	4.61	H	-51.36	-25.00		
	10 371.96	-64.67	11.20	-53.97	5.41	H	-48.18	-25.00		
	12 964.95	-64.36	12.00	-54.43	6.11	H	-48.54	-25.00		
	15 557.94	-61.84	15.40	-56.51	6.77	H	-47.88	-25.00		
535998 (2679.990)	5 359.98	-62.94	11.50	-65.00	3.76	H	-57.26	-25.00	1	49
	8 039.97	-59.70	10.80	-52.53	4.68	H	-46.41	-25.00		
	10 719.96	-64.35	11.10	-52.72	5.46	H	-47.08	-25.00		
	13 399.95	-63.26	11.80	-52.91	6.22	H	-47.33	-25.00		
	16 079.94	-64.20	15.50	-54.92	6.90	H	-46.32	-25.00		

▣ NR Band: n41

▣ Bandwidth: 30 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
502200 (2511.000)	5 022.00	-61.95	10.70	-63.48	3.55	H	-56.33	-25.00	1	76
	7 533.00	-65.18	11.10	-57.70	4.50	H	-51.10	-25.00		
	10 044.00	-63.62	11.15	-54.77	5.27	H	-48.89	-25.00		
	12 555.00	-64.12	12.10	-54.81	6.00	H	-48.71	-25.00		
	15 066.00	-58.45	14.00	-52.84	6.65	H	-45.49	-25.00		
518598 (2592.990)	5 185.98	-61.18	11.00	-62.68	3.70	H	-55.38	-25.00	1	1
	7 778.97	-65.12	10.90	-57.74	4.61	H	-51.45	-25.00		
	10 371.96	-64.33	11.20	-53.63	5.41	H	-47.84	-25.00		
	12 964.95	-63.07	12.00	-53.14	6.11	H	-47.25	-25.00		
	15 557.94	-61.15	15.40	-55.82	6.77	H	-47.19	-25.00		
534996 (2674.980)	5 349.96	-63.21	11.50	-64.86	3.75	H	-57.11	-25.00	1	39
	8 024.94	-62.71	10.80	-56.00	4.62	H	-49.82	-25.00		
	10 699.92	-64.27	11.10	-52.59	5.48	H	-46.97	-25.00		
	13 374.90	-63.54	11.90	-53.48	6.23	H	-47.81	-25.00		
	16 049.88	-64.88	15.50	-56.03	6.90	H	-47.43	-25.00		

▣ NR Band: n41

▣ Bandwidth: 40 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
503202 (2516.010)	5 032.02	-62.83	10.70	-64.93	3.56	H	-57.79	-25.00	1	104
	7 548.03	-65.00	11.10	-57.66	4.50	H	-51.06	-25.00		
	10 064.04	-64.15	11.10	-55.34	5.28	H	-49.52	-25.00		
	12 580.05	-65.32	12.10	-55.69	6.06	H	-49.65	-25.00		
	15 096.06	-60.46	14.05	-55.13	6.67	H	-47.75	-25.00		
518598 (2592.990)	5 185.98	-62.60	11.00	-64.10	3.70	H	-56.80	-25.00	1	1
	7 778.97	-63.81	10.90	-56.43	4.61	H	-50.14	-25.00		
	10 371.96	-64.46	11.20	-53.76	5.41	H	-47.97	-25.00		
	12 964.95	-61.52	12.00	-51.59	6.11	H	-45.70	-25.00		
	15 557.94	-62.04	15.40	-56.71	6.77	H	-48.08	-25.00		
534000 (2670.000)	5 340.00	-63.08	11.40	-64.78	3.75	H	-57.13	-25.00	1	1
	8 010.00	-62.64	10.80	-55.57	4.62	H	-49.39	-25.00		
	10 680.00	-63.87	11.10	-52.41	5.46	H	-46.77	-25.00		
	13 350.00	-63.46	11.90	-53.41	6.21	H	-47.72	-25.00		
	16 020.00	-64.12	15.20	-55.77	6.68	H	-47.25	-25.00		

▣ NR Band: n41

▣ Bandwidth: 50 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
504204 (2521.020)	5 042.04	-62.22	10.70	-64.19	3.60	H	-57.09	-25.00	1	131
	7 563.06	-65.23	11.10	-58.41	4.52	H	-51.83	-25.00		
	10 084.08	-62.69	11.10	-53.47	5.30	H	-47.67	-25.00		
	12 605.10	-64.54	12.00	-55.04	6.05	H	-49.09	-25.00		
	15 126.12	-59.61	14.10	-53.65	6.67	H	-46.22	-25.00		
518598 (2592.990)	5 185.98	-62.53	11.00	-64.03	3.70	H	-56.73	-25.00	1	1
	7 778.97	-64.96	10.90	-57.58	4.61	H	-51.29	-25.00		
	10 371.96	-65.33	11.20	-54.63	5.41	H	-48.84	-25.00		
	12 964.95	-62.51	12.00	-52.58	6.11	H	-46.69	-25.00		
	15 557.94	-62.77	15.40	-57.44	6.77	H	-48.81	-25.00		
532998 (2664.990)	5 329.98	-57.84	11.40	-59.81	3.71	H	-52.12	-25.00	1	1
	7 994.97	-62.56	10.75	-55.15	4.66	H	-49.06	-25.00		
	10 659.96	-65.37	11.10	-53.21	5.49	H	-47.60	-25.00		
	13 324.95	-63.18	12.00	-52.47	6.19	H	-46.66	-25.00		
	15 989.94	-63.97	15.10	-56.15	6.88	H	-47.93	-25.00		

▣ NR Band: n41

▣ Bandwidth: 60 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
505200 (2526.000)	5 052.00	-58.97	10.70	-60.62	3.63	H	-53.55	-25.00	1	160
	7 578.00	-64.73	11.10	-57.94	4.54	H	-51.38	-25.00		
	10 104.00	-62.48	11.10	-53.64	5.29	H	-47.83	-25.00		
	12 630.00	-63.32	12.00	-54.09	6.02	H	-48.11	-25.00		
	15 156.00	-59.85	14.20	-54.36	6.67	H	-46.83	-25.00		
518598 (2592.990)	5 185.98	-58.50	11.00	-60.00	3.70	H	-52.70	-25.00	1	1
	7 778.97	-64.25	10.90	-56.87	4.61	H	-50.58	-25.00		
	10 371.96	-65.51	11.20	-54.81	5.41	H	-49.02	-25.00		
	12 964.95	-63.74	12.00	-53.81	6.11	H	-47.92	-25.00		
	15 557.94	-61.62	15.40	-56.29	6.77	H	-47.66	-25.00		
531996 (2659.980)	5 319.96	-57.20	11.40	-59.94	3.66	H	-52.20	-25.00	1	1
	7 979.94	-63.59	10.70	-56.34	4.67	H	-50.31	-25.00		
	10 639.92	-63.98	11.20	-52.55	5.49	H	-46.84	-25.00		
	13 299.90	-64.31	12.00	-54.16	6.19	H	-48.35	-25.00		
	15 959.88	-64.01	15.10	-55.35	6.87	H	-47.12	-25.00		

▣ NR Band: n41

▣ Bandwidth: 70 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
506202 (2531.010)	5 062.02	-59.34	10.70	-60.32	3.65	H	-53.27	-25.00	1	187
	7 593.03	-64.17	11.15	-57.13	4.53	H	-50.51	-25.00		
	10 124.04	-62.61	11.10	-53.73	5.30	H	-47.93	-25.00		
	12 655.05	-64.13	11.90	-54.62	6.03	H	-48.75	-25.00		
	15 186.06	-60.37	14.20	-55.12	6.67	H	-47.59	-25.00		
518598 (2592.990)	5 185.98	-62.32	11.00	-63.82	3.70	H	-56.52	-25.00	1	1
	7 778.97	-64.35	10.90	-56.97	4.61	H	-50.68	-25.00		
	10 371.96	-63.81	11.20	-53.11	5.41	H	-47.32	-25.00		
	12 964.95	-63.65	12.00	-53.72	6.11	H	-47.83	-25.00		
	15 557.94	-62.61	15.40	-57.28	6.77	H	-48.65	-25.00		
531000 (2655.000)	5 310.00	-54.22	11.40	-56.46	3.65	H	-48.71	-25.00	1	1
	7 965.00	-63.28	10.70	-56.11	4.65	H	-50.06	-25.00		
	10 620.00	-64.62	11.20	-53.93	5.41	H	-48.14	-25.00		
	13 275.00	-64.77	12.10	-54.44	6.22	H	-48.56	-25.00		
	15 930.00	-64.81	15.00	-56.54	6.88	H	-48.42	-25.00		

▣ NR Band: n41

▣ Bandwidth: 80 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
507204 (2536.020)	5 072.04	-62.37	10.70	-63.65	3.62	H	-56.57	-25.00	1	215
	7 608.06	-63.87	11.20	-56.86	4.52	H	-50.18	-25.00		
	10 144.08	-63.46	11.05	-53.99	5.32	H	-48.26	-25.00		
	12 680.10	-63.84	11.90	-53.63	6.06	H	-47.79	-25.00		
	15 216.12	-60.12	14.40	-55.16	6.69	H	-47.45	-25.00		
518598 (2592.990)	5 185.98	-63.92	11.00	-65.42	3.70	H	-58.12	-25.00	1	1
	7 778.97	-64.49	10.90	-57.11	4.61	H	-50.82	-25.00		
	10 371.96	-65.33	11.20	-54.63	5.41	H	-48.84	-25.00		
	12 964.95	-63.91	12.00	-53.98	6.11	H	-48.09	-25.00		
	15 557.94	-63.20	15.40	-57.87	6.77	H	-49.24	-25.00		
529998 (2649.990)	5 299.98	-56.48	11.40	-58.59	3.69	H	-50.88	-25.00	1	1
	7 949.97	-62.31	10.70	-55.00	4.64	H	-48.94	-25.00		
	10 599.96	-63.70	11.20	-52.51	5.41	H	-46.72	-25.00		
	13 249.95	-64.58	12.10	-54.52	6.18	H	-48.60	-25.00		
	15 899.94	-63.49	15.00	-55.66	6.87	H	-47.53	-25.00		

▣ NR Band: n41

▣ Bandwidth: 90 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
508200 (2541.000)	5 082.00	-61.69	10.70	-63.33	3.61	H	-56.24	-25.00	1	243
	7 623.00	-66.10	11.20	-59.70	4.52	H	-53.02	-25.00		
	10 164.00	-62.92	11.00	-53.84	5.33	H	-48.17	-25.00		
	12 705.00	-63.89	11.90	-53.37	6.06	H	-47.53	-25.00		
	15 246.00	-61.66	14.50	-55.78	6.73	H	-48.01	-25.00		
518598 (2592.990)	5 185.98	-63.65	11.00	-65.15	3.70	H	-57.85	-25.00	1	1
	7 778.97	-65.17	10.90	-57.79	4.61	H	-51.50	-25.00		
	10 371.96	-65.15	11.20	-54.45	5.41	H	-48.66	-25.00		
	12 964.95	-63.10	12.00	-53.17	6.11	H	-47.28	-25.00		
	15 557.94	-62.16	15.40	-56.83	6.77	H	-48.20	-25.00		
528996 (2644.980)	5 289.96	-55.88	11.30	-57.35	3.73	H	-49.78	-25.00	1	1
	7 934.94	-63.21	10.70	-55.86	4.64	H	-49.80	-25.00		
	10 579.92	-64.42	11.20	-53.97	5.46	H	-48.23	-25.00		
	13 224.90	-64.00	12.10	-53.97	6.16	H	-48.03	-25.00		
	15 869.88	-59.60	14.90	-52.85	6.85	H	-44.80	-25.00		

▣ NR Band: n41

▣ Bandwidth: 100 MHz

▣ Modulation: PI/2 BPSK

▣ Distance: 1 meters

▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
509202 (2546.010)	5 092.02	-56.81	10.70	-58.96	3.64	H	-51.90	-25.00	1	271
	7 638.03	-63.79	11.20	-57.40	4.53	H	-50.73	-25.00		
	10 184.04	-64.04	11.00	-54.58	5.33	H	-48.91	-25.00		
	12 730.05	-64.79	11.90	-54.34	6.02	H	-48.46	-25.00		
	15 276.06	-61.94	14.60	-56.07	6.71	H	-48.18	-25.00		
518598 (2592.990)	5 185.98	-62.62	11.00	-64.12	3.70	H	-56.82	-25.00	1	1
	7 778.97	-65.52	10.90	-58.14	4.61	H	-51.85	-25.00		
	10 371.96	-65.27	11.20	-54.57	5.41	H	-48.78	-25.00		
	12 964.95	-64.52	12.00	-54.59	6.11	H	-48.70	-25.00		
	15 557.94	-62.52	15.40	-57.19	6.77	H	-48.56	-25.00		
528000 (2640.000)	5 280.00	-58.18	11.30	-60.09	3.75	H	-52.54	-25.00	1	1
	7 920.00	-63.55	10.70	-56.37	4.63	H	-50.30	-25.00		
	10 560.00	-64.49	11.20	-54.58	5.45	H	-48.83	-25.00		
	13 200.00	-64.92	12.10	-54.48	6.19	H	-48.57	-25.00		
	15 840.00	-64.38	14.90	-57.27	6.84	H	-49.21	-25.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n41	10 MHz	2592.990	BPSK	24	0	4.33
			QPSK			5.53
			16-QAM			6.35
			64-QAM			6.56
			256-QAM			6.55
	15 MHz		BPSK	36		4.26
			QPSK			5.51
			16-QAM			6.26
			64-QAM			6.46
			256-QAM			6.46
	20 MHz		BPSK	50		4.33
			QPSK			5.52
			16-QAM			6.34
			64-QAM			6.41
			256-QAM			6.41
	30 MHz		BPSK	75		4.43
			QPSK			5.61
			16-QAM			6.35
			64-QAM			6.62
			256-QAM			6.50
	40 MHz		BPSK	100		5.01
			QPSK			5.64
			16-QAM			6.30
			64-QAM			6.49
			256-QAM			6.49
	50 MHz		BPSK	128		4.37
			QPSK			5.59
			16-QAM			6.38
			64-QAM			6.45
			256-QAM			6.49
	60 MHz		BPSK	162		4.65
			QPSK			5.61
			16-QAM			6.37
			64-QAM			6.50
			256-QAM			6.57
	70 MHz		BPSK	180		4.75
			QPSK			5.55
			16-QAM			6.30
			64-QAM			6.43
			256-QAM			6.60
	80 MHz		BPSK	216		4.35
			QPSK			5.58
			16-QAM			6.27
			64-QAM			6.45
			256-QAM			6.51

	90 MHz		BPSK	243		4.40
			QPSK			5.57
			16-QAM			6.36
			64-QAM			6.46
			256-QAM			6.52
	100 MHz		BPSK	270		4.88
			QPSK			5.59
			16-QAM			6.31
			64-QAM			6.44
			256-QAM			6.61

Note:
1. Plots of the EUT's Peak- to- Average Ratio are shown Page 125 ~ 179.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n41	10 MHz	2592.990	BPSK	24	0	8.7078
			QPSK			8.7016
			16-QAM			8.6948
			64-QAM			8.6969
			256-QAM			8.7558
	15 MHz		BPSK	36		13.015
			QPSK			12.963
			16-QAM			12.979
			64-QAM			12.957
			256-QAM			12.985
	20 MHz		BPSK	50		18.009
			QPSK			18.001
			16-QAM			18.001
			64-QAM			17.990
			256-QAM			17.962
	30 MHz		BPSK	75		27.022
			QPSK			27.004
			16-QAM			26.965
			64-QAM			26.940
			256-QAM			26.977
	40 MHz		BPSK	100		35.979
			QPSK			35.901
			16-QAM			35.922
			64-QAM			35.896
			256-QAM			35.858
	50 MHz		BPSK	128		45.960
			QPSK			45.957
			16-QAM			45.835
			64-QAM			45.825
			256-QAM			46.051
	60 MHz		BPSK	162		58.255
			QPSK			58.249
			16-QAM			58.218
			64-QAM			58.111
			256-QAM			58.217
	70 MHz		BPSK	180		64.777
			QPSK			64.739
			16-QAM			64.774
			64-QAM			64.649
			256-QAM			64.704
	80 MHz		BPSK	216		77.465
			QPSK			77.454
			16-QAM			77.406
			64-QAM			77.515
			256-QAM			77.442

	90 MHz		BPSK	243		87.134
			QPSK			87.007
			16-QAM			86.951
			64-QAM			87.295
			256-QAM			86.947
	100 MHz		BPSK	270		96.840
			QPSK			96.770
			16-QAM			97.102
			64-QAM			96.776
			256-QAM			97.050

Note:
1. Plots of the EUT's Occupied Bandwidth are shown Page 70 ~ 124.

8.5 CONDUCTED SPURIOUS EMISSIONS

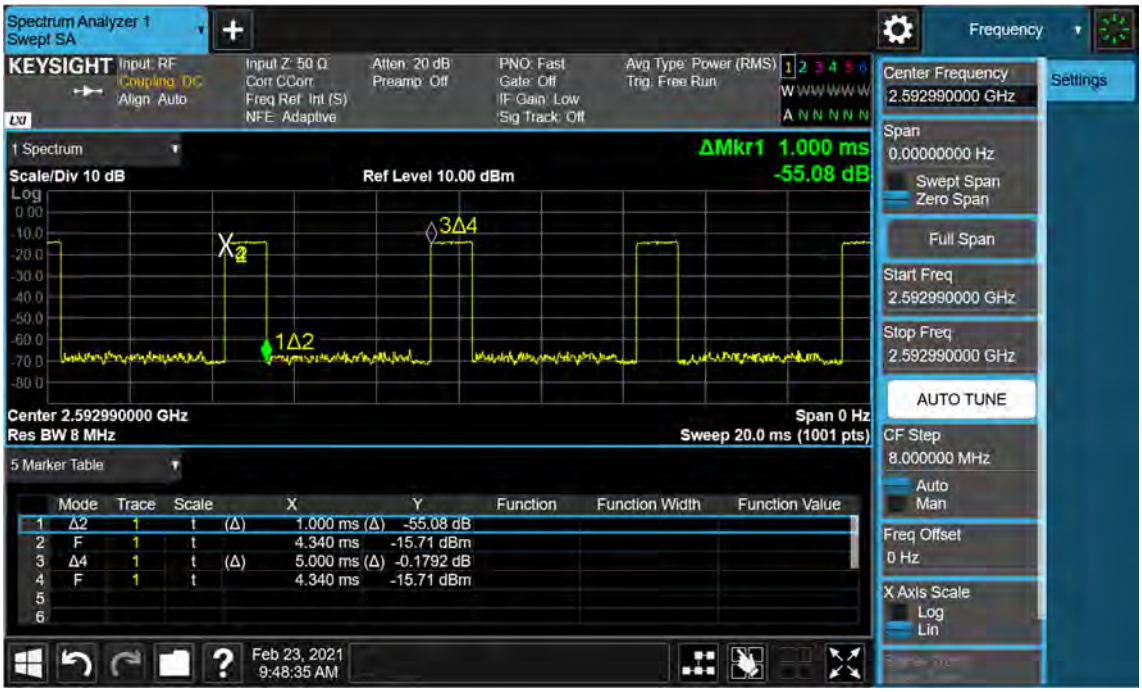
Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n41	10	2501.010	3.7568	37.190	-70.225	-33.035	-25.00
		2592.990	9.9018	37.805	-70.938	-33.133	
		2685.000	8.2797	37.805	-71.115	-33.310	
	15	2503.500	3.7468	37.190	-70.824	-33.634	
		2592.990	8.2647	37.805	-71.276	-33.471	
		2682.480	9.7358	37.805	-71.152	-33.347	
	20	2506.020	8.0080	37.805	-70.338	-32.533	
		2592.990	9.7074	37.805	-70.071	-32.266	
		2679.990	7.9427	37.805	-70.901	-33.096	
	30	2511.000	8.2443	37.805	-71.002	-33.197	
		2592.990	3.7817	37.190	-70.870	-33.680	
		2674.980	4.9602	37.190	-70.653	-33.463	
	40	2516.010	6.0035	37.805	-70.643	-32.838	
		2592.990	5.2204	37.805	-70.025	-32.220	
		2670.000	8.2667	37.805	-70.429	-32.624	
	50	2521.020	5.1780	37.805	-70.792	-32.987	
		2592.990	9.6710	37.805	-70.213	-32.408	
		2664.990	8.0100	37.805	-70.419	-32.614	
	60	2526.000	9.7188	37.805	-70.127	-32.322	
		2592.990	4.0295	37.190	-70.795	-33.605	
		2659.980	6.0439	37.805	-69.989	-32.184	
	70	2531.010	8.3141	37.805	-70.823	-33.018	
		2592.990	5.4741	37.805	-71.064	-33.259	
		2655.000	8.2941	37.805	-70.849	-33.044	
	80	2536.020	4.9228	37.190	-70.027	-32.837	
		2592.990	9.7213	37.805	-71.329	-33.524	
		2649.990	3.7917	37.190	-70.511	-33.321	
	90	2541.000	4.0559	37.190	-70.044	-32.854	
		2592.990	8.5907	37.805	-70.568	-32.763	
		2644.980	8.0130	37.805	-70.122	-32.317	
	100	2546.010	8.0200	37.805	-70.122	-32.317	
		2592.990	8.2378	37.805	-70.575	-32.770	
		2640.000	3.7638	37.190	-70.489	-33.299	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 257 ~ 322.

2. Duty Cycle factor already applied on the factor.

- Duty Cycle Factor(dB) = 6.99



- Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter

- Result(dBm) = Reading + Factor

3. Factor(dB)

Frequency Range (GHz)	Factor [dB]
0.03 – 1	34.484
1 – 5	37.190
5 – 10	37.805
10 – 15	38.330
15 – 20	38.703
Above 20	39.345

8.6 CHANNEL EDGE

BW (MHz)	Frequency (MHz)	Mod	RB (Size/ Offset)	2 495 MHz ~ 2 496 MHz	C.E ~ (C.E +1MHz)	2 490.5 MHz ~ 2 495 MHz	(C.E + 1 MHz) ~ (C.E + 5 MHz)	Below 2 490.5 MHz	(C.E + 5 MHz) ~ (C.E + X MHz)	Above (C.E + X MHz)
				Lower	Upper	Lower	Upper	Lower	Upper	Upper
10	2501.010	BPSK	Full RB	-24.73	-24.22	-28.64	-27.33	-36.57	-30.09	-41.81
15	2503.500	BPSK	Full RB	-25.09	-30.56	-30.48	-32.41	-35.59	-31.46	-42.90
20	2506.020	BPSK	Full RB	-26.92	-28.72	-32.37	-31.32	-34.99	-30.77	-41.90
30	2511.000	BPSK	Full RB	-28.43	-34.31	-34.53	-32.10	-38.39	-33.53	-40.93
40	2516.010	BPSK	Full RB	-26.83	-36.57	-31.71	-37.05	-38.07	-34.96	-44.67
50	2521.020	BPSK	Full RB	-25.68	-33.38	-32.20	-36.08	-39.12	-36.19	-41.51
60	2526.000	BPSK	Full RB	-19.79	-18.95	-29.23	-27.24	-38.39	-31.05	-39.94
70	2531.010	BPSK	Full RB	-23.51	-33.33	-30.23	-35.82	-40.53	-38.40	-41.29
80	2536.020	BPSK	Full RB	-24.78	-23.36	-31.33	-29.38	-41.04	-34.10	-43.23
90	2541.000	BPSK	Full RB	-23.29	-26.19	-31.48	-30.53	-41.18	-37.66	-44.17
100	2546.010	BPSK	Full RB	-23.31	-29.09	-32.65	-32.35	-41.45	-35.31	-47.00
Limit (dBm)				-13.0	-10.0	-13.0	-10.0	-25.0	-13.0	-25.0

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resoure Block Offset	C.E ~ (C.E ± 1 MHz)		(C.E ± 1 MHz) ~ (C.E ± 5 MHz)	
					Lower	Upper	Lower	Upper
10 MHz	2592.990	BPSK	Full RB	0	-24.53	-25.39	-27.50	-28.43
	2685.000	BPSK	Full RB	0	-21.84	-23.53	-24.67	-26.35
15 MHz	2592.990	BPSK	Full RB	0	-22.96	-32.18	-29.09	-33.94
	2682.480	BPSK	Full RB	0	-20.59	-30.55	-24.84	-29.29
20 MHz	2592.990	BPSK	Full RB	0	-25.81	-30.59	-31.82	-33.69
	2679.990	BPSK	Full RB	0	-21.14	-28.04	-24.36	-28.04
30 MHz	2592.990	BPSK	Full RB	0	-25.31	-36.56	-33.02	-37.10
	2679.990	BPSK	Full RB	0	-23.68	-32.24	-26.41	-31.94
40 MHz	2592.990	BPSK	Full RB	0	-24.94	-36.55	-33.21	-35.62
	2670.000	BPSK	Full RB	0	-23.68	-34.73	-28.56	-35.41
50 MHz	2592.990	BPSK	Full RB	0	-23.33	-34.51	-31.47	-37.23
	2664.990	BPSK	Full RB	0	-22.76	-32.91	-28.91	-34.85
60 MHz	2592.990	BPSK	Full RB	0	-19.04	-19.97	-27.79	-27.72
	2659.980	BPSK	Full RB	0	-18.29	-21.40	-26.67	-29.35
70 MHz	2592.990	BPSK	Full RB	0	-24.01	-33.90	-29.56	-37.60
	2655.000	BPSK	Full RB	0	-22.69	-34.74	-27.84	-36.22
80 MHz	2592.990	BPSK	Full RB	0	-22.96	-25.68	-30.18	-31.18
	2649.990	BPSK	Full RB	0	-22.94	-27.26	-28.72	-31.47
90 MHz	2592.990	BPSK	Full RB	0	-22.51	-28.77	-29.42	-32.43
	2644.980	BPSK	Full RB	0	-21.37	-30.30	-28.50	-33.33
100 MHz	2592.990	BPSK	Full RB	0	-21.38	-30.46	-30.19	-33.89
	2640.000	BPSK	Full RB	0	-19.62	-32.69	-27.73	-35.71
Limit (dBm)					-10.0		-10.0	

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resoure Block Offset	(C.E ± 5 MHz) ~ (C.E ± X MHz)		Above (C.E ± X MHz)	
					Lower	Upper	Lower	Upper
10 MHz	2592.990	BPSK	Full RB	0	-33.55	-33.74	-37.07	-38.82
	2685.000	BPSK	Full RB	0	-24.69	-28.57	-36.24	-36.42
15 MHz	2592.990	BPSK	Full RB	0	-32.91	-31.12	-41.39	-41.91
	2682.480	BPSK	Full RB	0	-25.69	-28.16	-38.34	-39.15
20 MHz	2592.990	BPSK	Full RB	0	-33.73	-34.05	-44.82	-44.34
	2679.990	BPSK	Full RB	0	-24.25	-28.96	-33.95	-34.14
30 MHz	2592.990	BPSK	Full RB	0	-35.65	-36.60	-42.29	-41.73
	2679.990	BPSK	Full RB	0	-28.08	-31.92	-37.70	-41.88
40 MHz	2592.990	BPSK	Full RB	0	-34.74	-36.04	-45.44	-43.02
	2670.000	BPSK	Full RB	0	-31.68	-33.43	-43.74	-47.76
50 MHz	2592.990	BPSK	Full RB	0	-38.39	-38.70	-42.92	-42.56
	2664.990	BPSK	Full RB	0	-33.88	-34.67	-40.65	-48.06
60 MHz	2592.990	BPSK	Full RB	0	-36.46	-35.14	-43.74	-44.25
	2659.980	BPSK	Full RB	0	-32.02	-34.90	-40.32	-48.05
70 MHz	2592.990	BPSK	Full RB	0	-37.25	-37.85	-46.18	-43.36
	2655.000	BPSK	Full RB	0	-33.34	-35.29	-40.38	-48.14
80 MHz	2592.990	BPSK	Full RB	0	-38.96	-36.37	-48.39	-46.06
	2649.990	BPSK	Full RB	0	-34.08	-37.68	-44.45	-48.14
90 MHz	2592.990	BPSK	Full RB	0	-37.88	-37.11	-48.35	-47.87
	2644.980	BPSK	Full RB	0	-33.57	-36.47	-42.39	-48.05
100 MHz	2592.990	BPSK	Full RB	0	-38.03	-36.06	-48.94	-48.00
	2640.000	BPSK	Full RB	0	-34.89	-35.34	-47.62	-48.19
Limit (dBm)					-13.0		-25.0	

Note:

1. C.E = Channel Edge
2. X = X is the greater of 6 MHz or the actual emission bandwidth
3. Duty Cycle factor already applied on the factor.
   - Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter
   - Result(dBm) = Reading + Factor
   - Duty Cycle Factor(dB) = 6.99
4. Plots of the EUT's Channel Edge are shown Page 180 ~ 256. (1RB & Full RB)

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

▣ BandWidth: 10 MHz

▣ Voltage(100 %): 3.850 VDC

▣ Batt. Endpoint: 3.400 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2501.010	100 %	+20(Ref)	2501 009 992	0.0	0.000 000	0.000
	100 %	-30	2501 009 982	-10.2	0.000 000	-0.004
	100 %	-20	2501 009 986	-6.3	0.000 000	-0.003
	100 %	-10	2501 009 985	-7.5	0.000 000	-0.003
	100 %	0	2501 009 983	-9.4	0.000 000	-0.004
	100 %	+10	2501 009 985	-7.7	0.000 000	-0.003
	100 %	+30	2501 009 983	-9.5	0.000 000	-0.004
	100 %	+40	2501 009 985	-7.0	0.000 000	-0.003
	100 %	+50	2501 009 987	-5.1	0.000 000	-0.002
	Batt. Endpoint	+20	2501 009 983	-9.2	0.000 000	-0.004
2685.000	100 %	+20(Ref)	2684 999 993	0.0	0.000 000	0.000
	100 %	-30	2684 999 988	-5.7	0.000 000	-0.002
	100 %	-20	2684 999 989	-4.5	0.000 000	-0.002
	100 %	-10	2684 999 985	-8.4	0.000 000	-0.003
	100 %	0	2684 999 987	-6.7	0.000 000	-0.002
	100 %	+10	2684 999 990	-3.0	0.000 000	-0.001
	100 %	+30	2684 999 988	-5.1	0.000 000	-0.002
	100 %	+40	2684 999 986	-6.8	0.000 000	-0.003
	100 %	+50	2684 999 985	-8.7	0.000 000	-0.003
	Batt. Endpoint	+20	2684 999 989	-4.6	0.000 000	-0.002

▣ BandWidth: 15 MHz

▣ Voltage(100 %): 3.850 VDC

▣ Batt. Endpoint: 3.400 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2503.500	100 %	+20(Ref)	2503 499 991	0.0	0.000 000	0.000
	100 %	-30	2503 499 984	-6.7	0.000 000	-0.003
	100 %	-20	2503 499 982	-8.9	0.000 000	-0.004
	100 %	-10	2503 499 985	-5.9	0.000 000	-0.002
	100 %	0	2503 499 981	-10.2	0.000 000	-0.004
	100 %	+10	2503 499 984	-7.3	0.000 000	-0.003
	100 %	+30	2503 499 981	-9.8	0.000 000	-0.004
	100 %	+40	2503 499 984	-7.4	0.000 000	-0.003
	100 %	+50	2503 499 984	-6.9	0.000 000	-0.003
	Batt. Endpoint	+20	2503 499 984	-7.2	0.000 000	-0.003
2682.480	100 %	+20(Ref)	2682 479 995	0.0	0.000 000	0.000
	100 %	-30	2682 479 990	-5.2	0.000 000	-0.002
	100 %	-20	2682 479 988	-6.5	0.000 000	-0.002
	100 %	-10	2682 479 990	-4.6	0.000 000	-0.002
	100 %	0	2682 479 988	-6.4	0.000 000	-0.002
	100 %	+10	2682 479 988	-7.0	0.000 000	-0.003
	100 %	+30	2682 479 989	-6.4	0.000 000	-0.002
	100 %	+40	2682 479 992	-3.1	0.000 000	-0.001
	100 %	+50	2682 479 989	-5.9	0.000 000	-0.002
	Batt. Endpoint	+20	2682 479 989	-6.2	0.000 000	-0.002

▣ BandWidth: 20 MHz

▣ Voltage(100 %): 3.850 VDC

▣ Batt. Endpoint: 3.400 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2506.020	100 %	+20(Ref)	2506 019 992	0.0	0.000 000	0.000
	100 %	-30	2506 019 987	-4.9	0.000 000	-0.002
	100 %	-20	2506 019 986	-6.3	0.000 000	-0.003
	100 %	-10	2506 019 984	-7.6	0.000 000	-0.003
	100 %	0	2506 019 986	-6.0	0.000 000	-0.002
	100 %	+10	2506 019 983	-9.0	0.000 000	-0.004
	100 %	+30	2506 019 986	-6.0	0.000 000	-0.002
	100 %	+40	2506 019 986	-5.5	0.000 000	-0.002
	100 %	+50	2506 019 985	-6.6	0.000 000	-0.003
	Batt. Endpoint	+20	2506 019 984	-7.4	0.000 000	-0.003
2679.990	100 %	+20(Ref)	2679 989 996	0.0	0.000 000	0.000
	100 %	-30	2679 989 993	-3.2	0.000 000	-0.001
	100 %	-20	2679 989 992	-3.8	0.000 000	-0.001
	100 %	-10	2679 989 992	-4.1	0.000 000	-0.002
	100 %	0	2679 989 993	-3.6	0.000 000	-0.001
	100 %	+10	2679 989 991	-4.9	0.000 000	-0.002
	100 %	+30	2679 989 991	-4.8	0.000 000	-0.002
	100 %	+40	2679 989 992	-3.6	0.000 000	-0.001
	100 %	+50	2679 989 991	-5.0	0.000 000	-0.002
	Batt. Endpoint	+20	2679 989 991	-5.3	0.000 000	-0.002

▣ BandWidth: 30 MHz

▣ Voltage(100 %): 3.850 VDC

▣ Batt. Endpoint: 3.400 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2511.000	100 %	+20(Ref)	2510 999 992	0.0	0.000 000	0.000
	100 %	-30	2510 999 988	-4.3	0.000 000	-0.002
	100 %	-20	2510 999 985	-6.9	0.000 000	-0.003
	100 %	-10	2510 999 985	-6.9	0.000 000	-0.003
	100 %	0	2510 999 983	-9.3	0.000 000	-0.004
	100 %	+10	2510 999 981	-10.6	0.000 000	-0.004
	100 %	+30	2510 999 984	-7.4	0.000 000	-0.003
	100 %	+40	2510 999 984	-8.1	0.000 000	-0.003
	100 %	+50	2510 999 985	-6.7	0.000 000	-0.003
	Batt. Endpoint	+20	2510 999 983	-8.5	0.000 000	-0.003
2674.980	100 %	+20(Ref)	2674 979 993	0.0	0.000 000	0.000
	100 %	-30	2674 979 988	-4.3	0.000 000	-0.002
	100 %	-20	2674 979 984	-8.2	0.000 000	-0.003
	100 %	-10	2674 979 988	-5.0	0.000 000	-0.002
	100 %	0	2674 979 986	-6.3	0.000 000	-0.002
	100 %	+10	2674 979 987	-5.5	0.000 000	-0.002
	100 %	+30	2674 979 985	-8.1	0.000 000	-0.003
	100 %	+40	2674 979 987	-5.6	0.000 000	-0.002
	100 %	+50	2674 979 988	-4.8	0.000 000	-0.002
	Batt. Endpoint	+20	2674 979 988	-4.8	0.000 000	-0.002

▣ BandWidth: 40 MHz

▣ Voltage(100 %): 3.850 VDC

▣ Batt. Endpoint: 3.400 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2516.010	100 %	+20(Ref)	2516 009 994	0.0	0.000 000	0.000
	100 %	-30	2516 009 987	-7.0	0.000 000	-0.003
	100 %	-20	2516 009 986	-7.7	0.000 000	-0.003
	100 %	-10	2516 009 986	-7.2	0.000 000	-0.003
	100 %	0	2516 009 988	-6.0	0.000 000	-0.002
	100 %	+10	2516 009 986	-7.5	0.000 000	-0.003
	100 %	+30	2516 009 981	-12.2	0.000 000	-0.005
	100 %	+40	2516 009 985	-8.1	0.000 000	-0.003
	100 %	+50	2516 009 985	-8.5	0.000 000	-0.003
	Batt. Endpoint	+20	2516 009 986	-7.5	0.000 000	-0.003
2670.000	100 %	+20(Ref)	2669 999 996	0.0	0.000 000	0.000
	100 %	-30	2669 999 991	-5.0	0.000 000	-0.002
	100 %	-20	2669 999 988	-8.3	0.000 000	-0.003
	100 %	-10	2669 999 991	-5.2	0.000 000	-0.002
	100 %	0	2669 999 990	-5.9	0.000 000	-0.002
	100 %	+10	2669 999 990	-6.3	0.000 000	-0.002
	100 %	+30	2669 999 990	-6.4	0.000 000	-0.002
	100 %	+40	2669 999 990	-6.3	0.000 000	-0.002
	100 %	+50	2669 999 992	-3.9	0.000 000	-0.001
	Batt. Endpoint	+20	2669 999 991	-5.2	0.000 000	-0.002

▣ BandWidth: 50 MHz

▣ Voltage(100 %): 3.850 VDC

▣ Batt. Endpoint: 3.400 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2521.020	100 %	+20(Ref)	2521 019 990	0.0	0.000 000	0.000
	100 %	-30	2521 019 985	-4.6	0.000 000	-0.002
	100 %	-20	2521 019 981	-8.2	0.000 000	-0.003
	100 %	-10	2521 019 981	-8.6	0.000 000	-0.003
	100 %	0	2521 019 983	-6.4	0.000 000	-0.003
	100 %	+10	2521 019 982	-7.4	0.000 000	-0.003
	100 %	+30	2521 019 985	-4.3	0.000 000	-0.002
	100 %	+40	2521 019 982	-7.6	0.000 000	-0.003
	100 %	+50	2521 019 983	-7.0	0.000 000	-0.003
	Batt. Endpoint	+20	2521 019 979	-10.8	0.000 000	-0.004
2664.990	100 %	+20(Ref)	2664 989 994	0.0	0.000 000	0.000
	100 %	-30	2664 989 991	-3.0	0.000 000	-0.001
	100 %	-20	2664 989 989	-5.8	0.000 000	-0.002
	100 %	-10	2664 989 988	-6.3	0.000 000	-0.002
	100 %	0	2664 989 989	-5.8	0.000 000	-0.002
	100 %	+10	2664 989 990	-4.5	0.000 000	-0.002
	100 %	+30	2664 989 990	-4.9	0.000 000	-0.002
	100 %	+40	2664 989 990	-4.2	0.000 000	-0.002
	100 %	+50	2664 989 988	-6.4	0.000 000	-0.002
	Batt. Endpoint	+20	2664 989 990	-3.9	0.000 000	-0.001

▣ BandWidth: 60 MHz

▣ Voltage(100 %): 3.850 VDC

▣ Batt. Endpoint: 3.400 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2526.000	100 %	+20(Ref)	2525 999 993	0.0	0.000 000	0.000
	100 %	-30	2525 999 985	-7.5	0.000 000	-0.003
	100 %	-20	2525 999 986	-7.0	0.000 000	-0.003
	100 %	-10	2525 999 988	-4.4	0.000 000	-0.002
	100 %	0	2525 999 986	-6.3	0.000 000	-0.003
	100 %	+10	2525 999 984	-8.8	0.000 000	-0.004
	100 %	+30	2525 999 981	-12.0	0.000 000	-0.005
	100 %	+40	2525 999 982	-10.7	0.000 000	-0.004
	100 %	+50	2525 999 984	-8.8	0.000 000	-0.004
	Batt. Endpoint	+20	2525 999 986	-6.3	0.000 000	-0.003
2659.980	100 %	+20(Ref)	2659 979 993	0.0	0.000 000	0.000
	100 %	-30	2659 979 984	-8.6	0.000 000	-0.003
	100 %	-20	2659 979 986	-6.6	0.000 000	-0.002
	100 %	-10	2659 979 987	-5.7	0.000 000	-0.002
	100 %	0	2659 979 987	-5.7	0.000 000	-0.002
	100 %	+10	2659 979 984	-9.1	0.000 000	-0.003
	100 %	+30	2659 979 987	-6.3	0.000 000	-0.002
	100 %	+40	2659 979 988	-4.7	0.000 000	-0.002
	100 %	+50	2659 979 985	-8.0	0.000 000	-0.003
	Batt. Endpoint	+20	2659 979 988	-5.1	0.000 000	-0.002

▣ BandWidth: 70 MHz

▣ Voltage(100 %): 3.850 VDC

▣ Batt. Endpoint: 3.400 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2531.010	100 %	+20(Ref)	2531 009 992	0.0	0.000 000	0.000
	100 %	-30	2531 009 982	-9.4	0.000 000	-0.004
	100 %	-20	2531 009 984	-7.1	0.000 000	-0.003
	100 %	-10	2531 009 984	-7.1	0.000 000	-0.003
	100 %	0	2531 009 984	-8.0	0.000 000	-0.003
	100 %	+10	2531 009 984	-7.9	0.000 000	-0.003
	100 %	+30	2531 009 982	-9.1	0.000 000	-0.004
	100 %	+40	2531 009 982	-9.6	0.000 000	-0.004
	100 %	+50	2531 009 983	-9.0	0.000 000	-0.004
	Batt. Endpoint	+20	2531 009 984	-8.1	0.000 000	-0.003
2655.000	100 %	+20(Ref)	2654 999 994	0.0	0.000 000	0.000
	100 %	-30	2654 999 988	-6.2	0.000 000	-0.002
	100 %	-20	2654 999 987	-6.8	0.000 000	-0.003
	100 %	-10	2654 999 989	-4.9	0.000 000	-0.002
	100 %	0	2654 999 987	-7.0	0.000 000	-0.003
	100 %	+10	2654 999 987	-7.4	0.000 000	-0.003
	100 %	+30	2654 999 984	-9.9	0.000 000	-0.004
	100 %	+40	2654 999 987	-6.8	0.000 000	-0.003
	100 %	+50	2654 999 987	-7.3	0.000 000	-0.003
	Batt. Endpoint	+20	2654 999 986	-8.2	0.000 000	-0.003

▣ BandWidth: 80 MHz

▣ Voltage(100 %): 3.850 VDC

▣ Batt. Endpoint: 3.400 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2536.020	100 %	+20(Ref)	2536 019 991	0.0	0.000 000	0.000
	100 %	-30	2536 019 985	-6.6	0.000 000	-0.003
	100 %	-20	2536 019 984	-7.0	0.000 000	-0.003
	100 %	-10	2536 019 985	-6.5	0.000 000	-0.003
	100 %	0	2536 019 984	-7.5	0.000 000	-0.003
	100 %	+10	2536 019 987	-4.7	0.000 000	-0.002
	100 %	+30	2536 019 985	-6.8	0.000 000	-0.003
	100 %	+40	2536 019 985	-6.8	0.000 000	-0.003
	100 %	+50	2536 019 983	-7.9	0.000 000	-0.003
	Batt. Endpoint	+20	2536 019 983	-7.9	0.000 000	-0.003
2649.990	100 %	+20(Ref)	2649 989 993	0.0	0.000 000	0.000
	100 %	-30	2649 989 987	-6.5	0.000 000	-0.002
	100 %	-20	2649 989 988	-5.8	0.000 000	-0.002
	100 %	-10	2649 989 988	-5.1	0.000 000	-0.002
	100 %	0	2649 989 988	-5.1	0.000 000	-0.002
	100 %	+10	2649 989 988	-5.6	0.000 000	-0.002
	100 %	+30	2649 989 988	-5.1	0.000 000	-0.002
	100 %	+40	2649 989 987	-6.1	0.000 000	-0.002
	100 %	+50	2649 989 985	-8.3	0.000 000	-0.003
	Batt. Endpoint	+20	2649 989 988	-5.6	0.000 000	-0.002

▣ BandWidth: 90 MHz

▣ Voltage(100 %): 3.850 VDC

▣ Batt. Endpoint: 3.400 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2541.000	100 %	+20(Ref)	2540 999 991	0.0	0.000 000	0.000
	100 %	-30	2540 999 983	-8.0	0.000 000	-0.003
	100 %	-20	2540 999 981	-9.2	0.000 000	-0.004
	100 %	-10	2540 999 986	-4.6	0.000 000	-0.002
	100 %	0	2540 999 984	-6.5	0.000 000	-0.003
	100 %	+10	2540 999 983	-7.1	0.000 000	-0.003
	100 %	+30	2540 999 983	-7.1	0.000 000	-0.003
	100 %	+40	2540 999 982	-8.2	0.000 000	-0.003
	100 %	+50	2540 999 981	-9.2	0.000 000	-0.004
	Batt. Endpoint	+20	2540 999 984	-6.9	0.000 000	-0.003
2644.980	100 %	+20(Ref)	2644 979 995	0.0	0.000 000	0.000
	100 %	-30	2644 979 990	-5.3	0.000 000	-0.002
	100 %	-20	2644 979 992	-3.6	0.000 000	-0.001
	100 %	-10	2644 979 990	-5.7	0.000 000	-0.002
	100 %	0	2644 979 988	-6.8	0.000 000	-0.003
	100 %	+10	2644 979 990	-5.2	0.000 000	-0.002
	100 %	+30	2644 979 992	-3.7	0.000 000	-0.001
	100 %	+40	2644 979 990	-4.8	0.000 000	-0.002
	100 %	+50	2644 979 990	-4.9	0.000 000	-0.002
	Batt. Endpoint	+20	2644 979 992	-3.1	0.000 000	-0.001

▣ BandWidth: 100 MHz

▣ Voltage(100 %): 3.850 VDC

▣ Batt. Endpoint: 3.400 VDC

▣ LIMIT: Emission must remain in band

Test. Frequncy	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
2546.010	100 %	+20(Ref)	2546 009 994	0.0	0.000 000	0.000
	100 %	-30	2546 009 985	-8.4	0.000 000	-0.003
	100 %	-20	2546 009 985	-8.5	0.000 000	-0.003
	100 %	-10	2546 009 986	-7.1	0.000 000	-0.003
	100 %	0	2546 009 984	-9.9	0.000 000	-0.004
	100 %	+10	2546 009 986	-7.1	0.000 000	-0.003
	100 %	+30	2546 009 984	-10.1	0.000 000	-0.004
	100 %	+40	2546 009 986	-7.6	0.000 000	-0.003
	100 %	+50	2546 009 986	-7.6	0.000 000	-0.003
	Batt. Endpoint	+20	2546 009 985	-8.4	0.000 000	-0.003
2640.000	100 %	+20(Ref)	2639 999 994	0.0	0.000 000	0.000
	100 %	-30	2639 999 989	-5.2	0.000 000	-0.002
	100 %	-20	2639 999 989	-5.2	0.000 000	-0.002
	100 %	-10	2639 999 987	-7.0	0.000 000	-0.003
	100 %	0	2639 999 987	-7.0	0.000 000	-0.003
	100 %	+10	2639 999 990	-3.8	0.000 000	-0.001
	100 %	+30	2639 999 988	-6.6	0.000 000	-0.002
	100 %	+40	2639 999 988	-6.4	0.000 000	-0.002
	100 %	+50	2639 999 987	-7.0	0.000 000	-0.003
	Batt. Endpoint	+20	2639 999 987	-7.2	0.000 000	-0.003

9. TEST PLOTS

Sub6 n41. Occupied Bandwidth Plot (10 MHz Ch.518598 BPSK)

Sub6 n41. Occupied Bandwidth Plot (10 MHz Ch.518598 QPSK)

Sub6 n41. Occupied Bandwidth Plot (10 MHz Ch.518598 16-QAM)

Sub6 n41. Occupied Bandwidth Plot (10 MHz Ch.518598 64-QAM)

Sub6 n41. Occupied Bandwidth Plot (10 MHz Ch.518598 256-QAM)

Sub6 n41. Occupied Bandwidth Plot (15 MHz Ch.518598 BPSK)

Sub6 n41. Occupied Bandwidth Plot (15 MHz Ch.518598 QPSK)

Sub6 n41. Occupied Bandwidth Plot (15 MHz Ch.518598 16-QAM)

Sub6 n41. Occupied Bandwidth Plot (15 MHz Ch.518598 64-QAM)

Sub6 n41. Occupied Bandwidth Plot (15 MHz Ch.518598 256-QAM)

Sub6 n41. Occupied Bandwidth Plot (20 MHz Ch.518598 BPSK)

Sub6 n41. Occupied Bandwidth Plot (20 MHz Ch.518598 QPSK)

Sub6 n41. Occupied Bandwidth Plot (20 MHz Ch.518598 16-QAM)

Sub6 n41. Occupied Bandwidth Plot (20 MHz Ch.518598 64-QAM)

Sub6 n41. Occupied Bandwidth Plot (20 MHz Ch.518598 256-QAM)

Sub6 n41. Occupied Bandwidth Plot (30 MHz Ch.518598 BPSK)

Sub6 n41. Occupied Bandwidth Plot (30 MHz Ch.518598 QPSK)

Sub6 n41. Occupied Bandwidth Plot (30 MHz Ch.518598 16-QAM)

Sub6 n41. Occupied Bandwidth Plot (30 MHz Ch.518598 64-QAM)

Sub6 n41. Occupied Bandwidth Plot (30 MHz Ch.518598 256-QAM)

Sub6 n41. Occupied Bandwidth Plot (40 MHz Ch.518598 BPSK)

Sub6 n41. Occupied Bandwidth Plot (40 MHz Ch.518598 QPSK)

Sub6 n41. Occupied Bandwidth Plot (40 MHz Ch.518598 16-QAM)

Sub6 n41. Occupied Bandwidth Plot (40 MHz Ch.518598 64-QAM)

Sub6 n41. Occupied Bandwidth Plot (40 MHz Ch.518598 256-QAM)

Sub6 n41. Occupied Bandwidth Plot (50 MHz Ch.518598 BPSK)

Sub6 n41. Occupied Bandwidth Plot (50 MHz Ch.518598 QPSK)

Sub6 n41. Occupied Bandwidth Plot (50 MHz Ch.518598 16-QAM)

Sub6 n41. Occupied Bandwidth Plot (50 MHz Ch.518598 64-QAM)

Sub6 n41. Occupied Bandwidth Plot (50 MHz Ch.518598 256-QAM)

Sub6 n41. Occupied Bandwidth Plot (60 MHz Ch.518598 BPSK)

Sub6 n41. Occupied Bandwidth Plot (60 MHz Ch.518598 QPSK)

Sub6 n41. Occupied Bandwidth Plot (60 MHz Ch.518598 16-QAM)

Sub6 n41. Occupied Bandwidth Plot (60 MHz Ch.518598 64-QAM)

Sub6 n41. Occupied Bandwidth Plot (60 MHz Ch.518598 256-QAM)

Sub6 n41. Occupied Bandwidth Plot (70 MHz Ch.518598 BPSK)

Sub6 n41. Occupied Bandwidth Plot (70 MHz Ch.518598 QPSK)

Sub6 n41. Occupied Bandwidth Plot (70 MHz Ch.518598 16-QAM)

Sub6 n41. Occupied Bandwidth Plot (70 MHz Ch.518598 64-QAM)

Sub6 n41. Occupied Bandwidth Plot (70 MHz Ch.518598 256-QAM)

Sub6 n41. Occupied Bandwidth Plot (80 MHz Ch.518598 BPSK)

Sub6 n41. Occupied Bandwidth Plot (80 MHz Ch.518598 QPSK)

Sub6 n41. Occupied Bandwidth Plot (80 MHz Ch.518598 16-QAM)

Sub6 n41. Occupied Bandwidth Plot (80 MHz Ch.518598 64-QAM)

Sub6 n41. Occupied Bandwidth Plot (80 MHz Ch.518598 256-QAM)

Sub6 n41. Occupied Bandwidth Plot (90 MHz Ch.518598 BPSK)

Sub6 n41. Occupied Bandwidth Plot (90 MHz Ch.518598 QPSK)

Sub6 n41. Occupied Bandwidth Plot (90 MHz Ch.518598 16-QAM)

Sub6 n41. Occupied Bandwidth Plot (90 MHz Ch.518598 64-QAM)

Sub6 n41. Occupied Bandwidth Plot (90 MHz Ch.518598 256-QAM)

Sub6 n41. Occupied Bandwidth Plot (100 MHz Ch.518598 BPSK)

Sub6 n41. Occupied Bandwidth Plot (100 MHz Ch.518598 QPSK)

Sub6 n41. Occupied Bandwidth Plot (100 MHz Ch.518598 16-QAM)

Sub6 n41. Occupied Bandwidth Plot (100 MHz Ch.518598 64-QAM)

Sub6 n41. Occupied Bandwidth Plot (100 MHz Ch.518598 256-QAM)

Sub6 n41. PAR Plot (10 M BW_Ch.518598_BPSK)

Sub6 n41. PAR Plot (10 M BW_Ch.518598_QPSK)

Sub6 n41. PAR Plot (10 M BW_Ch.518598_16QAM)

Sub6 n41. PAR Plot (10 M BW_Ch.518598_64QAM)

Sub6 n41. PAR Plot (10 M BW_Ch.518598_256QAM)

Sub6 n41. PAR Plot (15 M BW_Ch.518598_BPSK)

Sub6 n41. PAR Plot (15 M BW_Ch.518598_QPSK)

Sub6 n41. PAR Plot (15 M BW_Ch.518598_16QAM)

Sub6 n41. PAR Plot (15 M BW_Ch.518598_64QAM)

Sub6 n41. PAR Plot (15 M BW_Ch.518598_256QAM)

Sub6 n41. PAR Plot (20 M BW_Ch.518598_BPSK)

Sub6 n41. PAR Plot (20 M BW_Ch.518598_QPSK)

Sub6 n41. PAR Plot (20 M BW_Ch.518598_16QAM)

Sub6 n41. PAR Plot (20 M BW_Ch.518598_64QAM)

Sub6 n41. PAR Plot (20 M BW_Ch.518598_256QAM)

Sub6 n41. PAR Plot (30 M BW_Ch.518598_BPSK)

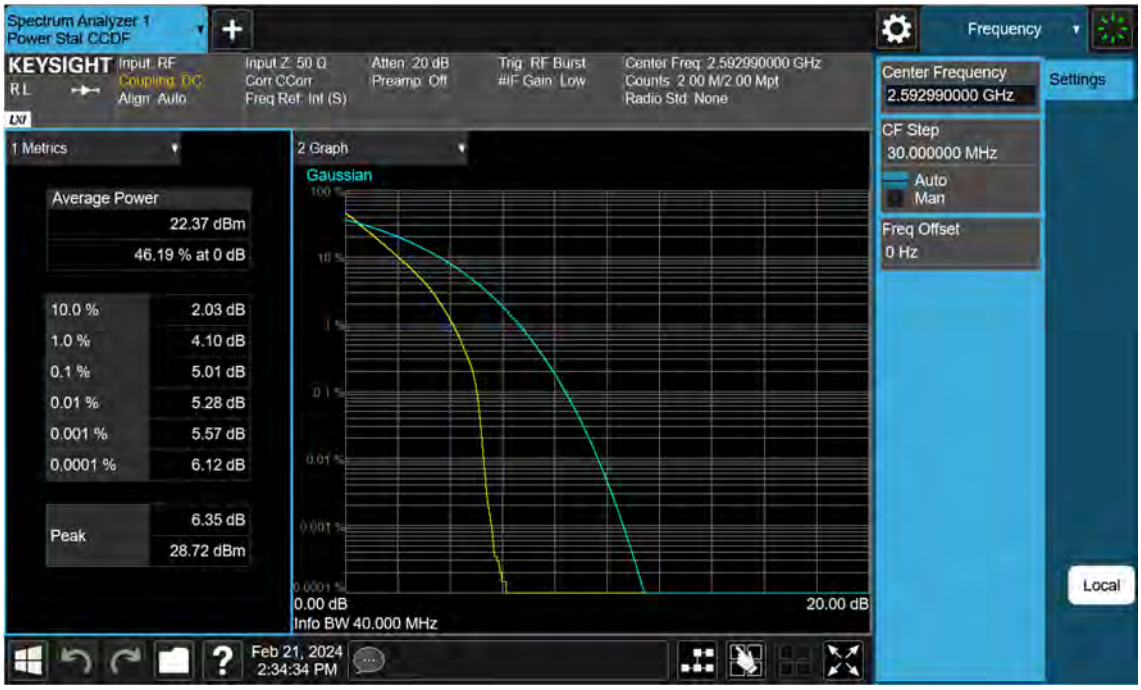
Sub6 n41. PAR Plot (30 M BW_Ch.518598_QPSK)

Sub6 n41. PAR Plot (30 M BW_Ch.518598_16QAM)

Sub6 n41. PAR Plot (30 M BW_Ch.518598_64QAM)

Sub6 n41. PAR Plot (30 M BW_Ch.518598_256QAM)

Sub6 n41. PAR Plot (40 M BW_Ch.518598_BPSK)



Sub6 n41. PAR Plot (40 M BW_Ch.518598_QPSK)

Sub6 n41. PAR Plot (40 M BW_Ch.518598_16QAM)

Sub6 n41. PAR Plot (40 M BW_Ch.518598_64QAM)

Sub6 n41. PAR Plot (40 M BW_Ch.518598_256QAM)

Sub6 n41. PAR Plot (50 M BW_Ch.518598_BPSK)

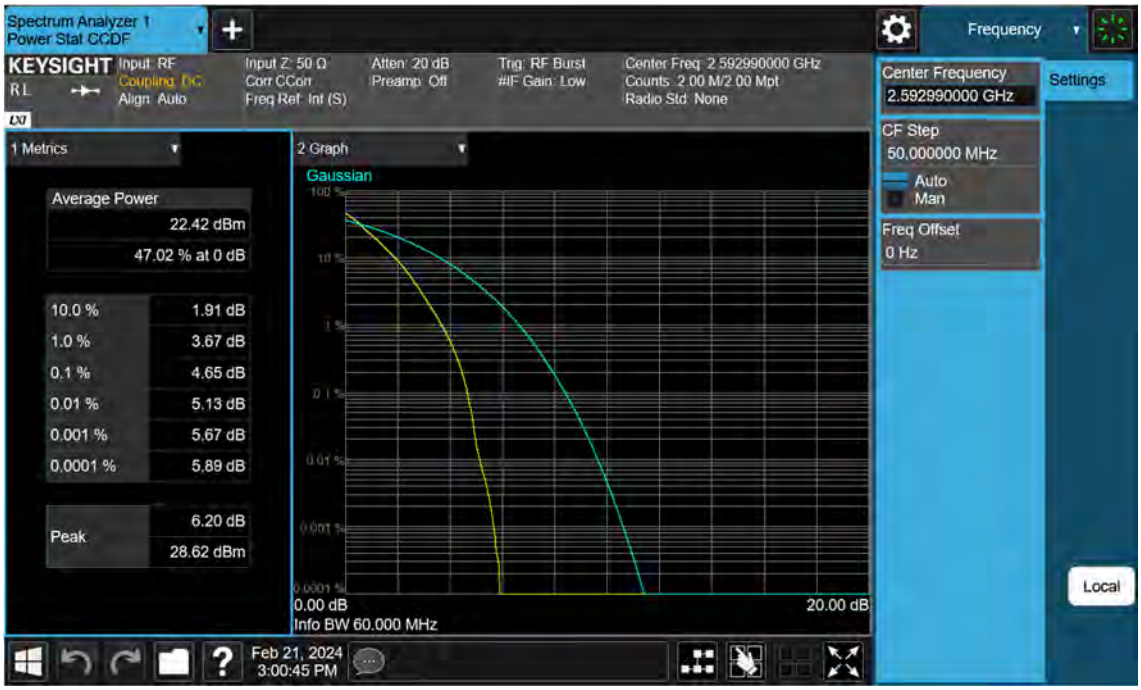
Sub6 n41. PAR Plot (50 M BW_Ch.518598_QPSK)

Sub6 n41. PAR Plot (50 M BW_Ch.518598_16QAM)

Sub6 n41. PAR Plot (50 M BW_Ch.518598_64QAM)

Sub6 n41. PAR Plot (50 M BW_Ch.518598_256QAM)

Sub6 n41. PAR Plot (60 M BW_Ch.518598_BPSK)



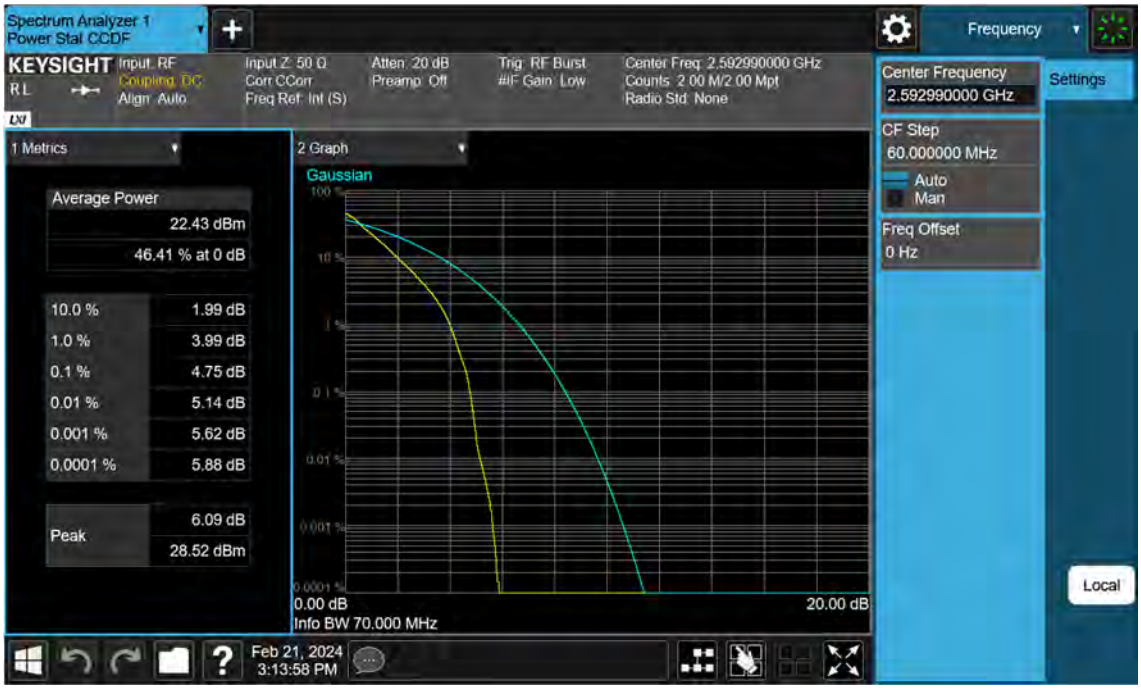
Sub6 n41. PAR Plot (60 M BW_Ch.518598_QPSK)

Sub6 n41. PAR Plot (60 M BW_Ch.518598_16QAM)

Sub6 n41. PAR Plot (60 M BW_Ch.518598_64QAM)

Sub6 n41. PAR Plot (60 M BW_Ch.518598_256QAM)

Sub6 n41. PAR Plot (70 M BW_Ch.518598_BPSK)



Sub6 n41. PAR Plot (70 M BW_Ch.518598_QPSK)

Sub6 n41. PAR Plot (70 M BW_Ch.518598_16QAM)

Sub6 n41. PAR Plot (70 M BW_Ch.518598_64QAM)

Sub6 n41. PAR Plot (70 M BW_Ch.518598_256QAM)

Sub6 n41. PAR Plot (80 M BW_Ch.518598_BPSK)

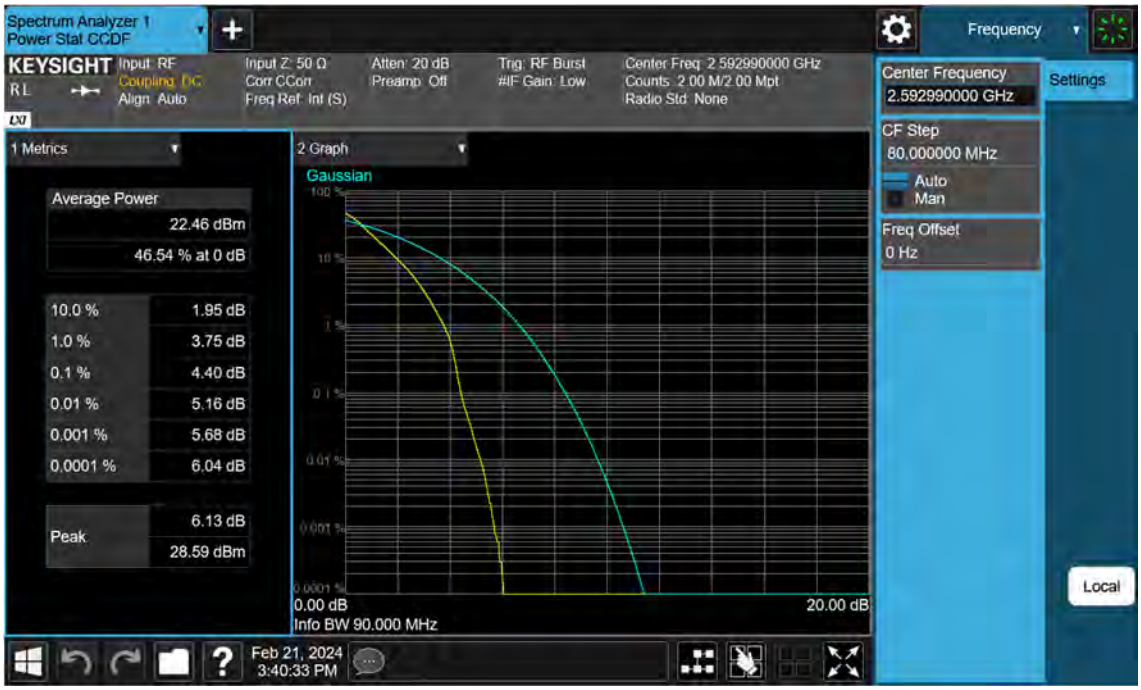
Sub6 n41. PAR Plot (80 M BW_Ch.518598_QPSK)

Sub6 n41. PAR Plot (80 M BW_Ch.518598_16QAM)

Sub6 n41. PAR Plot (80 M BW_Ch.518598_64QAM)

Sub6 n41. PAR Plot (80 M BW_Ch.518598_256QAM)

Sub6 n41. PAR Plot (90 M BW_Ch.518598_BPSK)



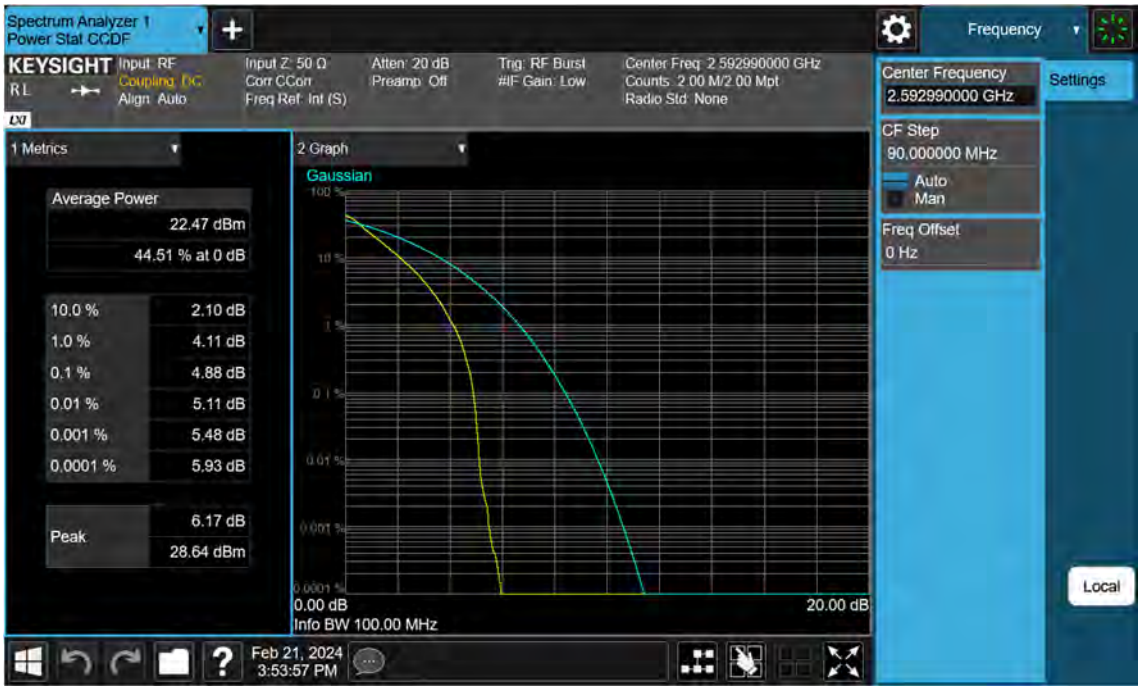
Sub6 n41. PAR Plot (90 M BW_Ch.518598_QPSK)

Sub6 n41. PAR Plot (90 M BW_Ch.518598_16QAM)

Sub6 n41. PAR Plot (90 M BW_Ch.518598_64QAM)

Sub6 n41. PAR Plot (90 M BW_Ch.518598_256QAM)

Sub6 n41. PAR Plot (100 M BW_Ch.518598_BPSK)



Sub6 n41. PAR Plot (100 M BW_Ch.518598_QPSK)

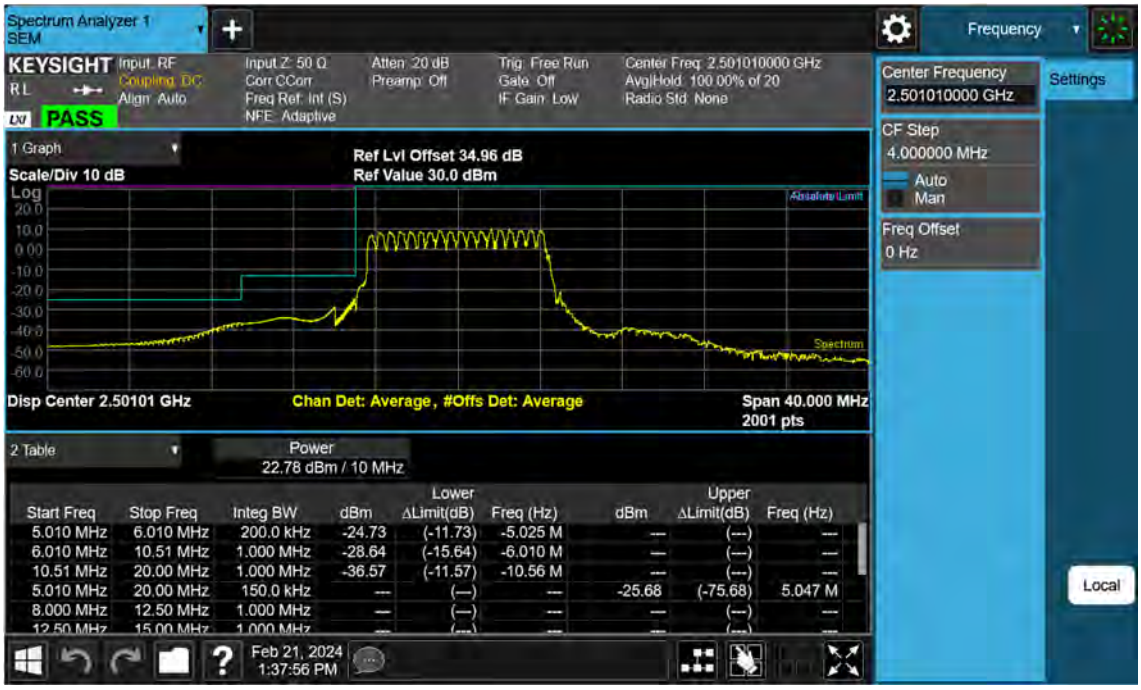
Sub6 n41. PAR Plot (100 M BW_Ch.518598_16QAM)

Sub6 n41. PAR Plot (100 M BW_Ch.518598_64QAM)

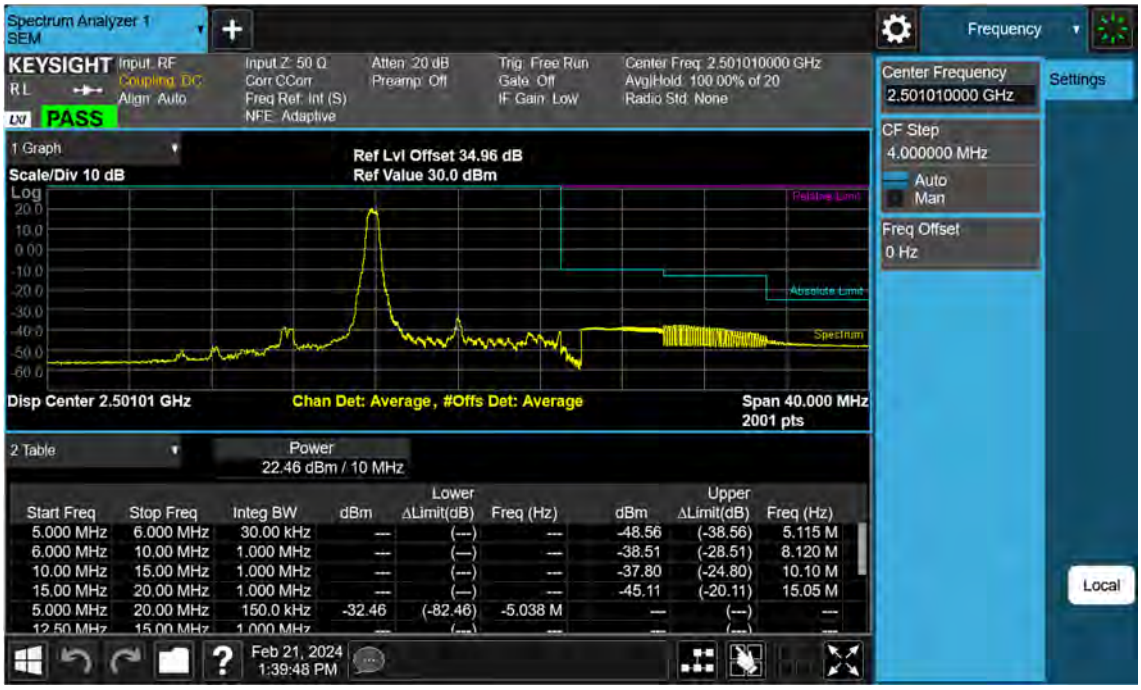
Sub6 n41. PAR Plot (100 M BW_Ch.518598_256QAM)

Sub6 n41. Low Channel Edge Plot (10 MHz Ch.500202 BPSK RB 1)-1

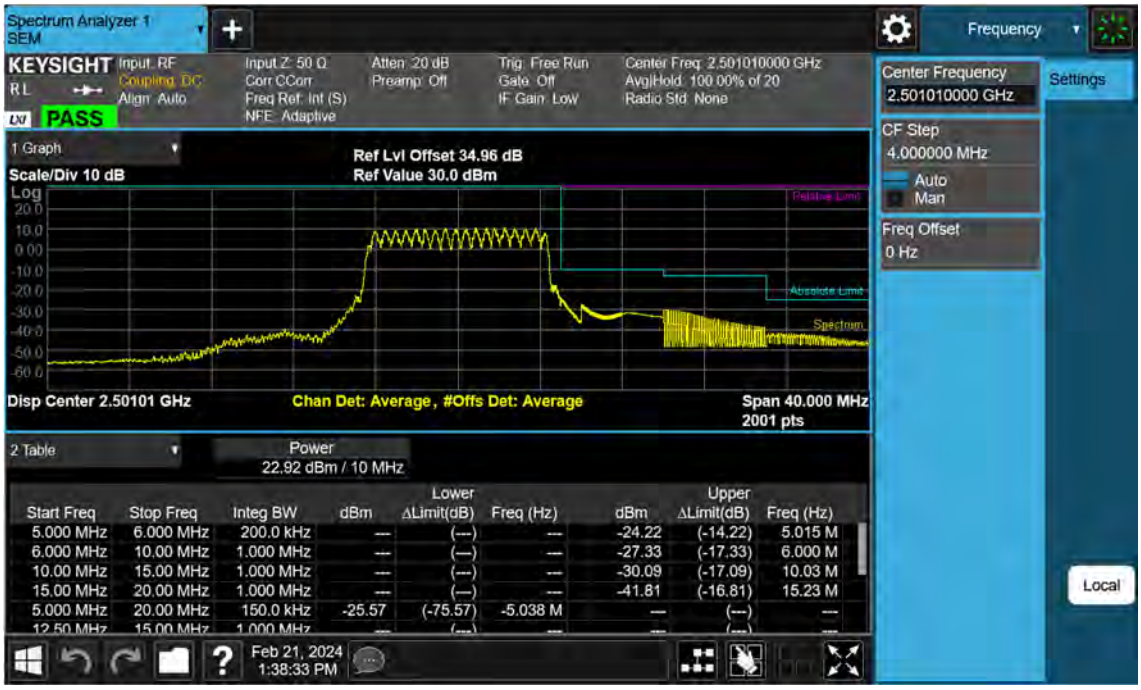
Sub6 n41. Low Channel Edge Plot (10 MHz Ch.500202 BPSK)-1



Sub6 n41. Low Channel Edge Plot (10 MHz Ch.500202 BPSK_RB1)-2



Sub6 n41. Low Channel Edge Plot (10 MHz Ch.500202 BPSK)-2



Sub6 n41. Mid Channel Edge Plot (10 MHz Ch.518598 BPSK)

Sub6 n41. High Channel Edge Plot (10 MHz Ch.537000 BPSK RB 1)

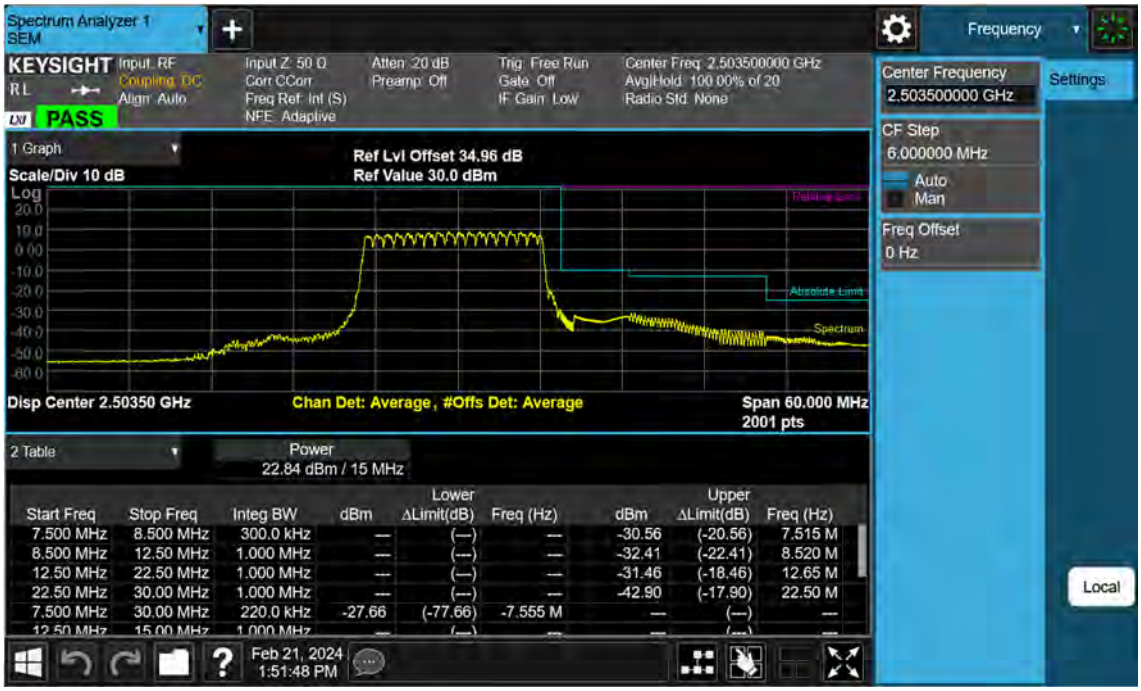
Sub6 n41. High Channel Edge Plot (10 MHz Ch.537000 BPSK)

Sub6 n41. Low Channel Edge Plot (15 MHz Ch.500700 BPSK RB 1)-1

Sub6 n41. Low Channel Edge Plot (15 MHz Ch.500700 BPSK)-1

Sub6 n41. Low Channel Edge Plot (15 MHz Ch.500700 BPSK_RB1)-2

Sub6 n41. Low Channel Edge Plot (15 MHz Ch.500700 BPSK)-2

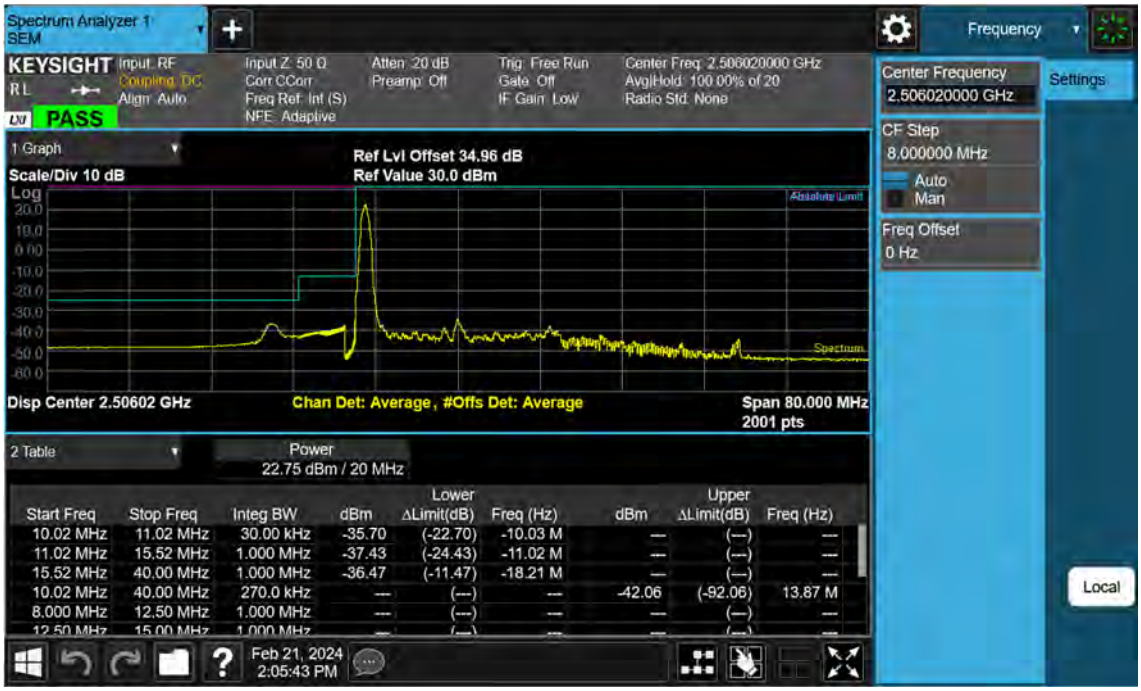


Sub6 n41. Mid Channel Edge Plot (15 MHz Ch.518598 BPSK)

Sub6 n41. High Channel Edge Plot (15 MHz Ch.536496 BPSK RB 1)

Sub6 n41. High Channel Edge Plot (15 MHz Ch.536496 BPSK)

Sub6 n41. Low Channel Edge Plot (20 MHz Ch.501204 BPSK RB 1)-1



Sub6 n41. Low Channel Edge Plot (20 MHz Ch.501204 BPSK)-1

Sub6 n41. Low Channel Edge Plot (20 MHz Ch.501204 BPSK_RB 1)-2

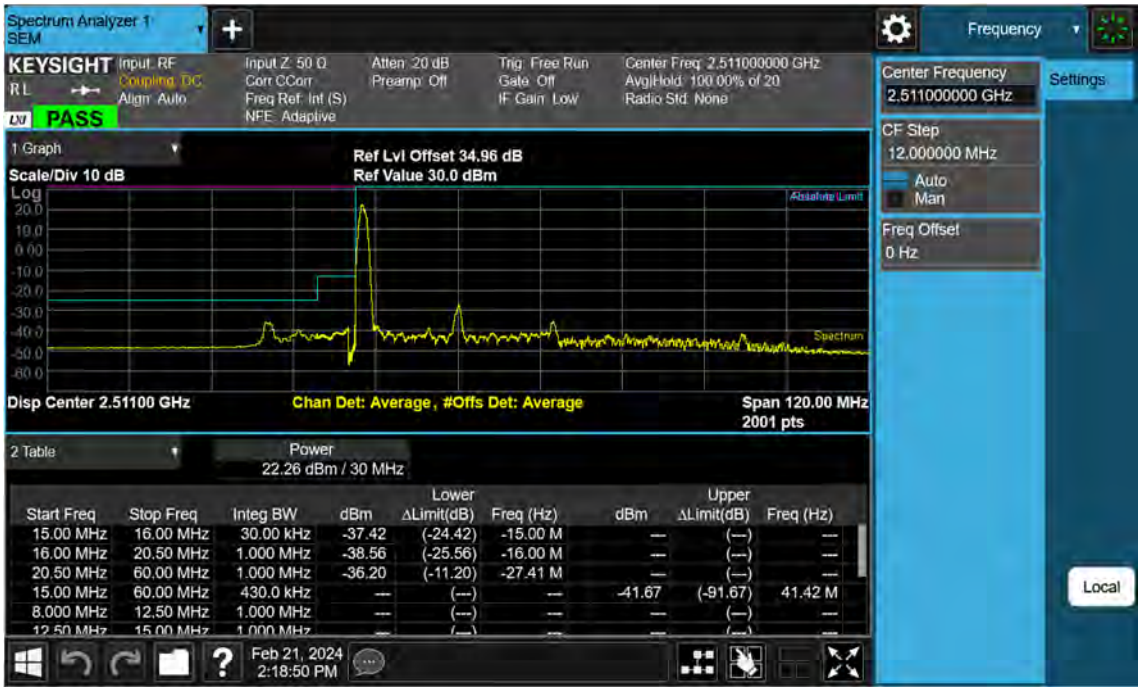
Sub6 n41. Low Channel Edge Plot (20 MHz Ch.501204 BPSK)-2

Sub6 n41. Mid Channel Edge Plot (20 MHz Ch.518598 BPSK)

Sub6 n41. High Channel Edge Plot (20 MHz Ch.535998 BPSK RB 1)

Sub6 n41. High Channel Edge Plot (20 MHz Ch.535998 BPSK)

Sub6 n41. Low Channel Edge Plot (30 MHz Ch.502200 BPSK RB 1)-1



Sub6 n41. Low Channel Edge Plot (30 MHz Ch.502200 BPSK)-1

Sub6 n41. Low Channel Edge Plot (30 MHz Ch.502200 BPSK_RB1)-2

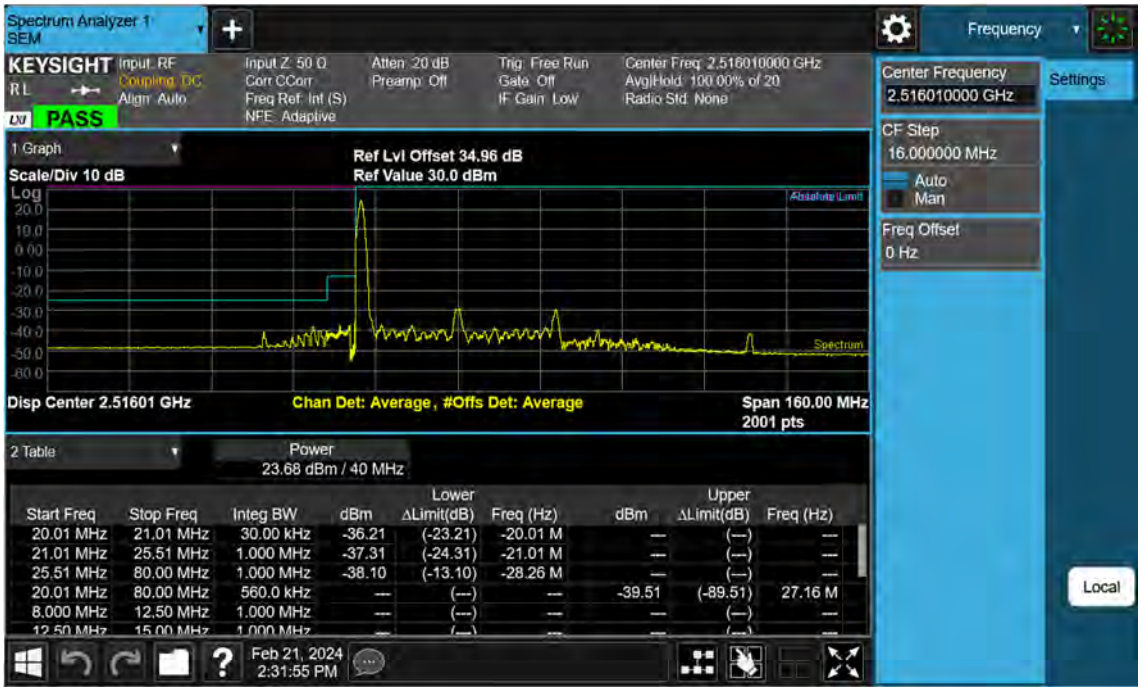
Sub6 n41. Low Channel Edge Plot (30 MHz Ch.502200 BPSK)-2

Sub6 n41. Mid Channel Edge Plot (30 MHz Ch.518598 BPSK)

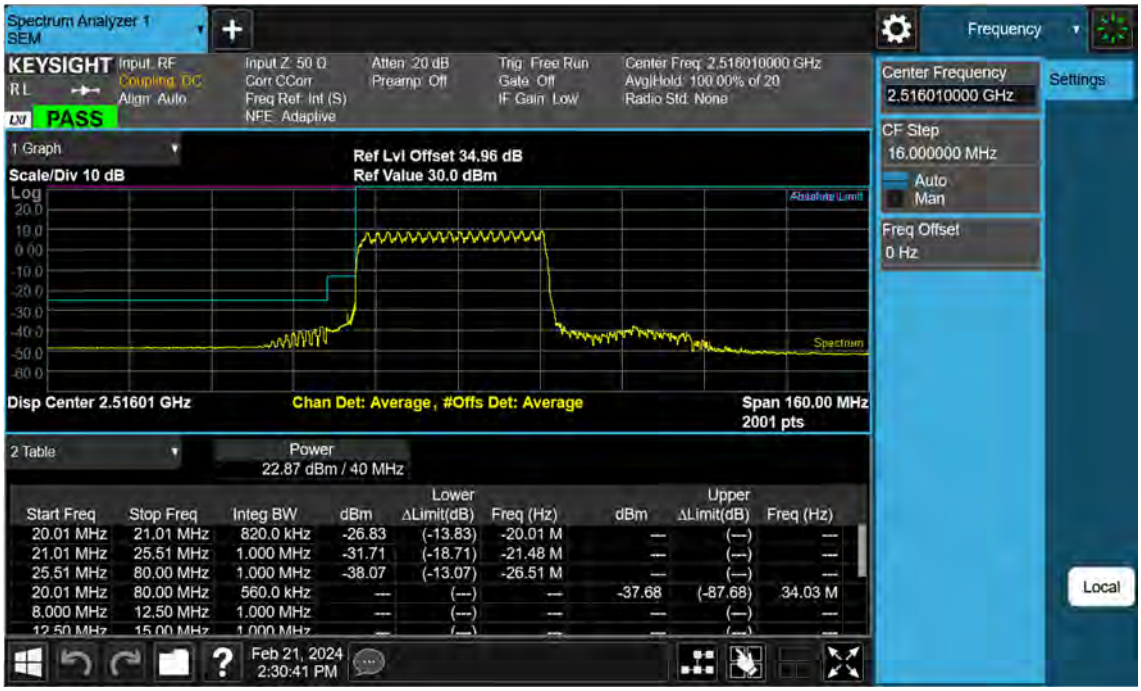
Sub6 n41. High Channel Edge Plot (30 MHz Ch.534996 BPSK RB 1)

Sub6 n41. High Channel Edge Plot (30 MHz Ch.534996 BPSK)

Sub6 n41. Low Channel Edge Plot (40 MHz Ch.503202 BPSK RB 1)-1



Sub6 n41. Low Channel Edge Plot (40 MHz Ch.503202 BPSK)-1



Sub6 n41. Low Channel Edge Plot (40 MHz Ch.503202 BPSK_RB1)-2

Sub6 n41. Low Channel Edge Plot (40 MHz Ch.503202 BPSK)-2

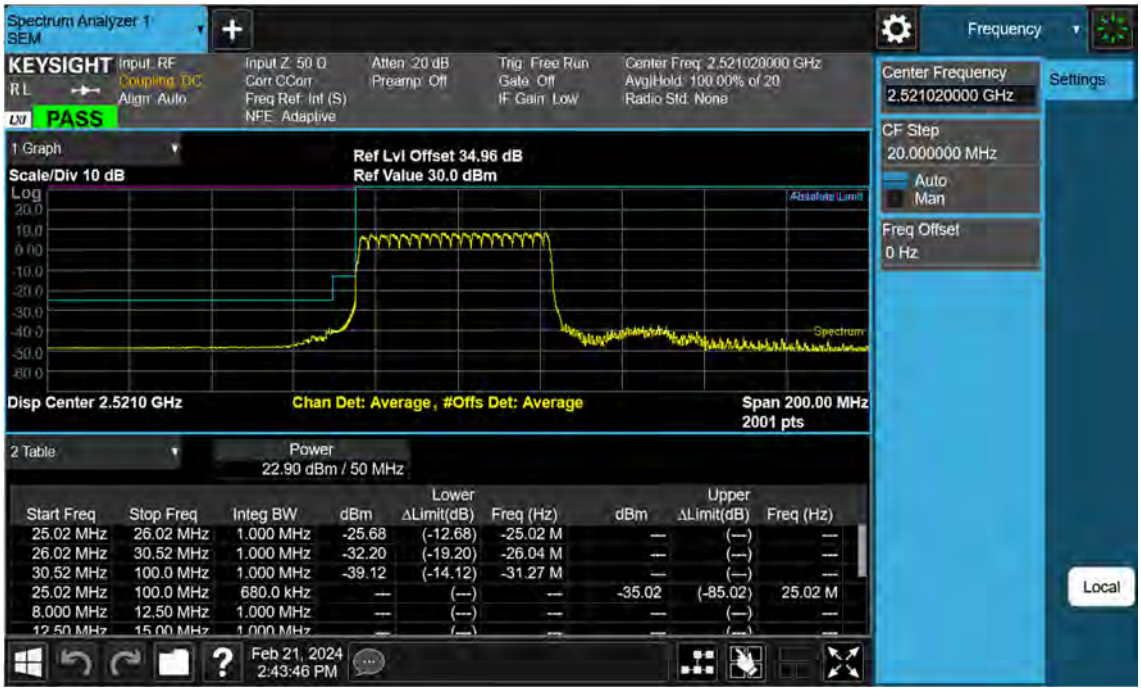
Sub6 n41. Mid Channel Edge Plot (40 MHz Ch.518598 BPSK)

Sub6 n41. High Channel Edge Plot (40 MHz Ch.534000 BPSK RB 1)

Sub6 n41. High Channel Edge Plot (40 MHz Ch.534000 BPSK)

Sub6 n41. Low Channel Edge Plot (50 MHz Ch.504204 BPSK RB 1)-1

Sub6 n41. Low Channel Edge Plot (50 MHz Ch.504204 BPSK)-1



Sub6 n41. Low Channel Edge Plot (50 MHz Ch.504204 BPSK_RB1)-2

Sub6 n41. Low Channel Edge Plot (50 MHz Ch.504204 BPSK)-2

Sub6 n41. Mid Channel Edge Plot (50 MHz Ch.518598 BPSK)