Testing and Certification

TEST REPORT

FCC LTE B42 Test for TM18FNROBM0
Certification

APPLICANT
LG Electronics Inc.

REPORT NO.
HCT-RF-2507-FC091

DATE OF ISSUE
July 22, 2025

Tested by Jae Ryang Do	
Technical Manager Jong Seok Lee	

Accredited by KOLAS, Republic of KOREA

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Applicant	**LG Electronics Inc.** 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea
Product Name Model Name	Telematics TM18FNROBM0
Date of Test	May 16, 2025 ~ July 22, 2025
Location of Test	■ Permanent Testing Lab ☐ On Site Testing (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)
FCC ID	2BO3LTM18FNROBM0
FCC Classification:	PCS Licensed Transmitter (PCB)
Test Standard Used	FCC Rule Part(s) : § 27
Test Results	PASS

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	July 22, 2025	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 This test report provides test result(s) under the scope accredited by the Korea Laboratory Accreditation Scheme (KOLAS), which signed the ILAC-MRA. (KOLAS (KS Q ISO/IEC 17025) Accreditation No. KT197)

CONTENTS

MEASUREMENT REPORT

1. GENERAL INFORMATION

Model(s):	TM18FNROBM0
Voltage:	4.2V
Tx Frequency:	3452.5 MHz – 3547.5 MHz (LTE – Band42 (5 MHz)) 3455.0 MHz – 3545.0 MHz (LTE – Band42 (10 MHz)) 3457.5 MHz – 3542.5 MHz (LTE – Band42 (15 MHz)) 3460.0 MHz – 3540.0 MHz (LTE – Band42 (20 MHz))
EUT Serial number:	Radiated : BMW ICON-25SF Radiated #5 Conducted : BMW ICON-25SF Conducted #18
Antenna Information	Please refer to the Antenna Specification document.

1.1. SUPPORTED BANDS PER ANTENNA PORT

Antenna Port	Supported bands
MIMO 1	- GSM850, 1900 - WCDMA: B2, 4, 5 - LTE: B4, 7, 12(17), 25(2), 26(5), 41(38), 42 - NR: n7, 41, 77(78) - ULCA: 7C
MIMO 2	- LTE: B42 - NR: n77(78)
MIMO 3	Only RX
MIMO 4	Only RX
Int. BUA (Back Up Antenna)	- GSM850, 1900 - WCDMA: B2, 4, 5 - LTE: B4, 7, 25(2), 26(5), 41(38) - NR: n7, 41 - ULCA: 7C

Note:

1. Since the Int. BUA uses the same antenna port as MIMO1, only radiated testing was performed.

1.2 MAXIMUM OUTPUT POWER

MIMO1

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	Conducted output power	
				Max. Power (W)	Max. Power (dBm)
LTE – Band42 (5)	3452.5 – 3547.5	4M50G7D	QPSK	0.145	21.61
		4M49W7D	16QAM	0.123	20.89
		4M50W7D	64QAM	0.090	19.54
		4M49W7D	256QAM	0.049	16.91
LTE – Band42 (10)	3455.0 – 3545.0	8M99G7D	QPSK	0.142	21.52
		8M97W7D	16QAM	0.123	20.91
		8M97W7D	64QAM	0.090	19.52
		8M95W7D	256QAM	0.048	16.82
LTE – Band42 (15)	3457.5 – 3542.5	13M4G7D	QPSK	0.143	21.56
		13M5W7D	16QAM	0.124	20.93
		13M5W7D	64QAM	0.091	19.60
		13M4W7D	256QAM	0.048	16.78
LTE – Band42 (20)	3460.0 – 3540.0	18M0G7D	QPSK	0.147	21.66
		17M9W7D	16QAM	0.126	21.00
		17M9W7D	64QAM	0.092	19.66
		17M9W7D	256QAM	0.049	16.89

MIMO2

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	Conducted output power	
				Max. Power (W)	Max. Power (dBm)
LTE – Band42 (5)	3452.5 – 3547.5	4M49G7D	QPSK	0.206	23.13
		4M49W7D	16QAM	0.165	22.18
		4M50W7D	64QAM	0.121	20.82
		4M50W7D	256QAM	0.065	18.14
LTE – Band42 (10)	3455.0 – 3545.0	8M98G7D	QPSK	0.192	22.83
		8M98W7D	16QAM	0.166	22.21
		8M97W7D	64QAM	0.122	20.87
		8M97W7D	256QAM	0.065	18.13
LTE – Band42 (15)	3457.5 – 3542.5	13M5G7D	QPSK	0.193	22.85
		13M5W7D	16QAM	0.169	22.28
		13M5W7D	64QAM	0.123	20.89
		13M5W7D	256QAM	0.065	18.11
LTE – Band42 (20)	3460.0 – 3540.0	18M0G7D	QPSK	0.199	22.98
		17M9W7D	16QAM	0.172	22.36
		17M9W7D	64QAM	0.126	21.02
		17M9W7D	256QAM	0.067	18.25

2. INTRODUCTION

2.1 DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

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, Republic of Korea.
Detailed description of test facility was submitted to the Commission and accepted dated March 11, 2024 (Registration Number: KR0032).

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
Band 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
Frequency stability	- ANSI C63.26-2015 – Section 5.6
Radiated Power	- ANSI C63.26-2015 – Section 5.2.4.4 - KDB 971168 D01 v03r01 – Section 5.8
Radiated Spurious and Harmonic Emissions	- ANSI C63.26-2015 – Section 5.5.3 - KDB 971168 D01 v03r01 – Section 5.8

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.

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;

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

   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.

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;

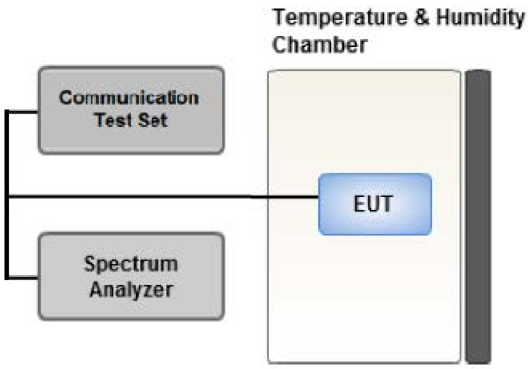
$$\text{Result}_{(dBm)} = Pg_{(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dBi)}$$

   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.

$$\text{EIRP}_{(dBm)} = \text{ERP}_{(dBm)} + 2.15$$

3.4 PEAK- TO- AVERAGE RATIO



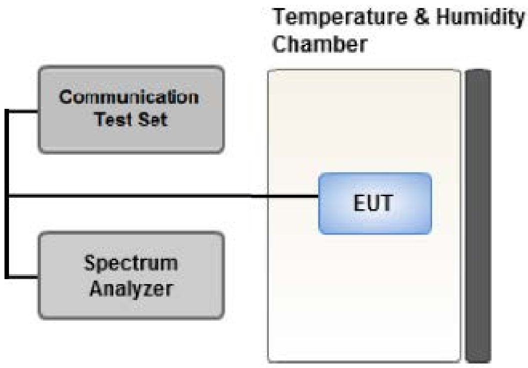
Test setup

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 %.

3.5 OCCUPIED BANDWIDTH.



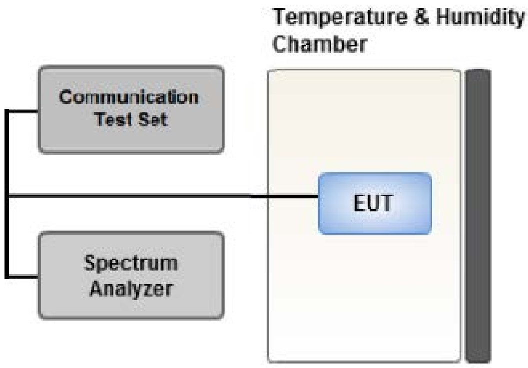
Test setup

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

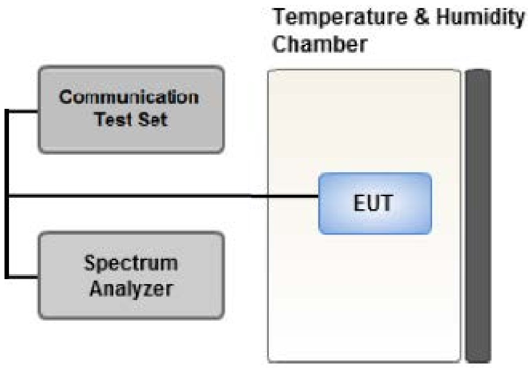
Test Overview

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 = Peak
4. Trace Mode = Max Hold
5. Sweep time = auto
6. Number of points in sweep ≥ 2 x Span / RBW

3.7 BAND 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 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. 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. RBW > 1 % of the emission bandwidth
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 > Number of points in sweep × Symbol period (i.e., the transmit on-time + the off-time)
9. The trace was allowed to stabilize

Test Notes

According to FCC 22.917, 24.238, 27.53 specified that power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

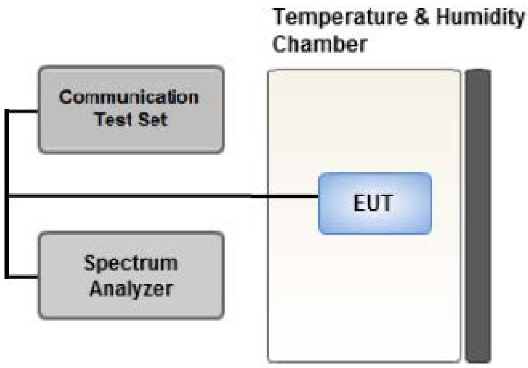
In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

All measurements were done at 2 channels(low and high operational frequency range.)

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)

- 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.
- In the case of radiated spurious emissions, all bandwidth of operation were investigated and the worst case bandwidth results are reported.
  (Worst case : 20 MHz(External(MIMO1)), 5 MHz(External(MIMO2)))
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data. Please refer to the table below.
- MIMO3 and MIMO4 have three types of Rx antennas. Operating modes were investigated for all Rx antennas, and the worst-case configuration results were reported. (Worst-case: FSA antenna)

[External(MIMO1) Worst case]

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

[External(MIMO2) Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Effective Isotropic Radiated Power	QPSK, 16QAM, 64QAM, 256QAM	See Section 9.1		Z
Radiated Spurious and Harmonic Emissions	QPSK	See Section 9.2		Z

3.10 WORST CASE(CONDUCTED TEST)

- All modes of operation were investigated and the worst case configuration results are reported.
- Both 85% and 115% conditions were measured for the Frequency Stability test, and results for the worst-case configuration (85%) were reported.
- In accordance with the customer's specification of 3.7V as the lowest operating voltage, testing was performed at 3.7V instead of 85% (3.57V).

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth	QPSK, 16QAM, 64QAM, 256QAM	5, 10, 15, 20	Mid	Full RB	0
Peak-To-Average Ratio	QPSK, 16QAM, 64QAM, 256QAM	5, 10, 15, 20	Mid	Full RB	0
Band Edge	QPSK	5	Low	1	0
			High	1	24
		10	Low	1	0
			High	1	49
		15	Low	1	0
			High	1	74
		20	Low	1	0
			High	1	99
		5, 10, 15, 20	Low, High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	QPSK	5, 10, 15, 20	Low, Mid, High	1	0

4. LIST OF TEST EQUIPMENT

[Radiated]

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
RF Switch System	FBSR-04C(3G HPF+LNA)	TNM System	S4L1	03/12/2026	Annual
RF Switch System	FBSR-04C(7G HPF+LNA)	TNM System	S4L5	03/12/2026	Annual
RF Switch System	FBSR-04C(LNA)	TNM System	S4L4	03/12/2026	Annual
RF Switch System	FBSR-04C(Thru)	TNM System	S4L6	03/12/2026	Annual
Antenna Position Tower	MA4640	Innco systems	S4AM	08/07/2025	Annual
Turn Table	DS2000-S	Innco systems	N/A	N/A	-
Controller (Antenna mast & Turn Table)	CO3000	Innco systems	CO3000/1251/48920320/P	N/A	-
Amp & Filter Bank Switch Controller	FBSM-01B	TNM system	TM20090002	N/A	-
RF Switching System	Switch box(1 G HPF+LNA)	HCT CO., LTD.,	F2L2	12/12/2025	Annual
RF Switching System	Switch box(3 G HPF+LNA)	HCT CO., LTD.,	F2L3	12/12/2025	Annual
RF Switching System	Switch box(LNA)	HCT CO., LTD.,	F2L5	12/12/2025	Annual
RF Switching System	Switch box(6 G HPF+LNA)	HCT CO., LTD.,	F2L14	12/12/2025	Annual
HIGHPASS FILTER	WHKX10-900-1000-15000-40SS	WAINWRIGHT INSTRUMENTS	16	07/24/2025	Annual
LOW NOISE AMPLIFIER	310N	SONOMA Instrument	186169	02/05/2026	Annual
LOW NOISE AMPLIFIER	TK-PA1840H	TESTEK	170011-L	10/11/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual
Power Splitter(DC ~ 26.5 GHz)	11667B	Hewlett Packard	5001	04/10/2026	Annual
DC Power Supply	E3632A	Agilent	MY40010147	08/06/2025	Annual
Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Dipole Antenna	UHAP	Schwarzbeck	01288	08/07/2026	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03197	11/28/2025	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03201	11/28/2025	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120	Schwarzbeck	937	02/07/2027	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	ROHDE & SCHWARZ	101733	09/19/2025	Annual
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	REOHDE & SCHWARZ	101436	02/04/2026	Annual
Signal & Spectrum Analyzer (2 Hz~67 GHz)	FSW67	REOHDE & SCHWARZ	101736	05/27/2026	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Loop Antenna(9 kHz ~ 30 MHz)	FMZB1513	Schwarzbeck	1513-333	03/07/2026	Biennial
Trilog Broadband Antenna	VULB 9168	Schwarzbeck	9168-0895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	1135	08/19/2026	Biennial
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/14/2026	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6272613402	08/28/2025	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/26/2025	Annual
Automation Software	FCC LTE Radiated	HCT CO., LTD	-	-	-
Automation Software	FCC NR Radiated	HCT CO., LTD	-	-	-

[Conducted]

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Power Splitter (DC ~ 26.5 GHz)	11667B	Hewlett Packard	5001	04/10/2026	Annual
DC Power Supply	E3632A	Agilent	MY40010147	08/06/2025	Annual
Chamber	SU-642	ESPEC	93008124	02/11/2026	Annual
ATTENUATOR (20 dB)	8493C	Hewlett Packard	17280	04/10/2026	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262094331	11/13/2025	Annual
UXM 5G Wireless Test Platform	E7515B	KEYSIGHT	MY60101126	02/10/2026	Annual
Signal Analyzer (2 Hz ~ 50.0 GHz)	N9030B	KEYSIGHT	MY56320554	02/03/2026	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.	-	-	-
Automation Software	FCC 2G/3G/4G Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC NR Conducted	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 (±kHz)
Occupied Bandwidth	95 (Confidence level about 95 %, *k*=2)
Frequency stability	28 (Confidence level about 95 %, *k*=2)

Parameter	Expanded Uncertainty (±dB)
Block Edge	0.70 (Confidence level about 95 %, *k*=2)
Conducted Spurious Emissions	1.18 (Confidence level about 95 %, *k*=2)
Peak- to- Average Ratio	0.68 (Confidence level about 95 %, *k*=2)
Radiated Power	4.74 (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)	5.68 (Confidence level about 95 %, *k*=2)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.75 (Confidence level about 95 %, *k*=2)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.82 (Confidence level about 95 %, *k*=2)
Radiated Disturbance (Above 40 GHz)	5.58 (Confidence level about 95 %, *k*=2)

6. SUMMARY OF TEST RESULTS

-. The decision rule applies ‘simple acceptance’

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(n)(2)	< -13 dBm	PASS
Conducted Output Power	§ 2.1046	N/A	Note[1]
Peak- to- Average Ratio	§ 27.50(k)(4)	< 13 dB	PASS
Frequency stability / variation of ambient temperature	§ 2.1055, § 27.54	Emission must remain in band	PASS

Note:

1. Refer to the SAR report.

6.2 Test Condition : Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Equivalent Isotropic Radiated Power	§ 27.50(k)(3)	< 1 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 27.50(n)(2)	< -13 dBm	PASS

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 (MIMO1)

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3452.5	LTE B42 (5 MHz)	QPSK	-30.93	13.98	11.47	3.04	H	< 1.00	0.174	22.41	1	12
		16-QAM	-32.02	12.89	11.47	3.04	H		0.136	21.32		
		64-QAM	-32.63	12.28	11.47	3.04	H		0.118	20.71		
		256-QAM	-35.65	9.26	11.47	3.04	H		0.059	17.69		
3500.0		QPSK	-30.11	14.74	11.59	3.04	H		0.213	23.29	1	24
		16-QAM	-32.06	12.79	11.59	3.04	H		0.136	21.34		
		64-QAM	-32.54	12.31	11.59	3.04	H		0.122	20.86		
		256-QAM	-35.71	9.14	11.59	3.04	H		0.059	17.69		
3547.5		QPSK	-30.55	14.21	11.66	3.09	H		0.190	22.78	1	12
		16-QAM	-32.21	12.55	11.66	3.09	H		0.129	21.12		
		64-QAM	-32.38	12.38	11.66	3.09	H		0.124	20.95		
		256-QAM	-36.26	8.50	11.66	3.09	H		0.051	17.07		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3455.0	LTE B42 (10 MHz)	QPSK	-30.22	14.69	11.47	3.04	H	< 1.00	0.205	23.12	1	49
		16-QAM	-31.79	13.12	11.47	3.04	H		0.143	21.55		
		64-QAM	-32.43	12.48	11.47	3.04	H		0.123	20.91		
		256-QAM	-35.41	9.50	11.47	3.04	H		0.062	17.93		
3500.0		QPSK	-29.83	15.02	11.59	3.04	H		0.228	23.57	1	49
		16-QAM	-31.31	13.54	11.59	3.04	H		0.162	22.09		
		64-QAM	-31.87	12.98	11.59	3.04	H		0.142	21.53		
		256-QAM	-34.87	9.98	11.59	3.04	H		0.071	18.53		
3545.0		QPSK	-30.78	13.98	11.65	3.07	H		0.180	22.56	1	24
		16-QAM	-32.16	12.60	11.65	3.07	H		0.131	21.18		
		64-QAM	-32.75	12.01	11.65	3.07	H		0.115	20.59		
		256-QAM	-35.73	9.03	11.65	3.07	H		0.058	17.61		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3457.5	LTE B42 (15 MHz)	QPSK	-30.18	14.73	11.48	3.04	H	< 1.00	0.207	23.17	1	74
		16-QAM	-31.95	12.96	11.48	3.04	H		0.138	21.40		
		64-QAM	-32.51	12.40	11.48	3.04	H		0.121	20.84		
		256-QAM	-35.48	9.43	11.48	3.04	H		0.061	17.87		
3500.0		QPSK	-29.80	15.05	11.59	3.04	H		0.229	23.60	1	74
		16-QAM	-31.47	13.38	11.59	3.04	H		0.156	21.93		
		64-QAM	-32.00	12.85	11.59	3.04	H		0.138	21.40		
		256-QAM	-35.00	9.85	11.59	3.04	H		0.069	18.40		
3542.5		QPSK	-30.42	14.34	11.65	3.07	H		0.196	22.92	1	0
		16-QAM	-31.77	12.99	11.65	3.07	H		0.144	21.57		
		64-QAM	-32.36	12.40	11.65	3.07	H		0.125	20.98		
		256-QAM	-35.37	9.39	11.65	3.07	H		0.063	17.97		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3460.0	LTE B42 (20 MHz)	QPSK	-30.07	14.84	11.48	3.04	H	< 1.00	0.213	23.28	1	99
		16-QAM	-31.28	13.63	11.48	3.04	H		0.161	22.07		
		64-QAM	-31.85	13.06	11.48	3.04	H		0.141	21.50		
		256-QAM	-34.83	10.08	11.48	3.04	H		0.071	18.52		
3500.0		QPSK	-29.62	15.23	11.59	3.04	H		0.239	23.78	1	49
		16-QAM	-32.03	12.82	11.59	3.04	H		0.137	21.37		
		64-QAM	-32.63	12.22	11.59	3.04	H		0.119	20.77		
		256-QAM	-35.70	9.15	11.59	3.04	H		0.059	17.70		
3540.0		QPSK	-30.58	14.19	11.64	3.06	H		0.189	22.77	1	0
		16-QAM	-31.47	13.30	11.64	3.06	H		0.154	21.88		
		64-QAM	-32.06	12.71	11.64	3.06	H		0.135	21.29		
		256-QAM	-35.08	9.69	11.64	3.06	H		0.067	18.27		

8.2 RADIATED SPURIOUS EMISSIONS

▣ MODE: LTE B42

▣ MODULATION SIGNAL: 20 MHz QPSK

▣ DISTANCE: 1 meters

Ch	Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
42190 (3460.0)	6 920.00	-54.81	11.19	-57.32	4.39	V	-50.52	-13.00	1	99
	10 380.00	-54.86	11.68	-54.38	5.56	H	-48.26	-13.00		
	13 840.00	-60.20	13.35	-48.84	6.53	H	-42.02	-13.00		
	17 300.00	-61.52	17.76	-40.70	7.42	V	-30.36	-13.00		
42590 (3500.0)	7 000.00	-50.60	11.14	-53.20	4.45	V	-46.51	-13.00	1	49
	10 500.00	-52.74	11.71	-53.15	5.64	V	-47.08	-13.00		
	14 000.00	-60.01	13.09	-48.09	6.55	H	-41.55	-13.00		
	17 500.00	-62.24	17.36	-37.19	7.42	H	-27.25	-13.00		
42990 (3540.0)	7 080.00	-47.77	10.90	-49.94	4.49	H	-43.53	-13.00	1	0
	10 620.00	-53.41	11.62	-54.07	5.65	H	-48.10	-13.00		
	14 160.00	-61.39	13.01	-47.78	6.51	H	-41.28	-13.00		
	17 700.00	-60.92	16.62	-32.95	7.49	V	-23.82	-13.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)	Limit (dB)
42	5MHz	3500.0	QPSK	Full RB	0	5.69	13.00
			16-QAM			6.35	
			64-QAM			6.48	
			256-QAM			6.38	
	10MHz		QPSK			5.86	
			16-QAM			6.43	
			64-QAM			6.64	
			256-QAM			6.52	
	15MHz		QPSK			5.75	
			16-QAM			6.33	
			64-QAM			6.56	
			256-QAM			6.64	
	20MHz		QPSK			5.67	
			16-QAM			6.28	
			64-QAM			6.58	
			256-QAM			6.62	

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 48 ~ 63.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
42	5MHz	3500.0	QPSK	Full RB	0	4.4978
			16-QAM			4.4864
			64-QAM			4.5016
			256-QAM			4.4941
	10MHz		QPSK			8.9902
			16-QAM			8.9736
			64-QAM			8.9723
			256-QAM			8.9504
	15MHz		QPSK			13.443
			16-QAM			13.454
			64-QAM			13.466
			256-QAM			13.433
	20MHz		QPSK			17.958
			16-QAM			17.902
			64-QAM			17.917
			256-QAM			17.899

Note:

1. Plots of the EUT’s Occupied Bandwidth are shown Page 64 ~ 79.

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)
42	5	3452.500	6.93921	28.730	-66.50	-37.772	-13.00
		3500.000	4.94521	28.150	-66.46	-38.306	
		3547.500	4.05788	28.150	-65.61	-37.460	
	10	3455.000	4.85548	28.150	-66.40	-38.251	
		3500.000	4.93524	28.150	-65.81	-37.658	
		3545.000	4.89536	28.150	-66.55	-38.404	
	15	3457.500	3.76875	28.150	-65.30	-37.147	
		3500.000	9.91027	28.730	-67.20	-38.469	
		3542.500	3.72887	28.150	-66.95	-38.804	
	20	3460.000	4.62617	28.150	-65.65	-37.505	
		3500.000	4.93524	28.150	-64.59	-36.442	
		3540.000	4.90533	28.150	-65.28	-37.135	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 80 ~ 103.
2. Conducted Spurious Emissions was Tested QPSK Modulation, Resource Block Size 1 and Resource Block Offset 0
3. Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter
4. Result(dBm) = Reading + Factor

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.27
1 – 5	28.15
5 – 10	28.73
10 – 15	29.33
15 – 20	30.52
Above 20(26.5)	31.89

8.6 BAND EDGE

1. Plots of the EUT's Band Edge are shown Page 104 ~ 151.
2. 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) = 3.979

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- BandWidth: 5 MHz
- Voltage(100 %): 4.200 VDC
- Lowest voltage: 3.700 VDC
- LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
3452.500	100 %	+20(Ref)	3452 500 005	0.0	0.000 000	0.000
	100 %	-30	3452 500 016	11.7	0.000 000	0.003
	100 %	-20	3452 500 013	8.8	0.000 000	0.003
	100 %	-10	3452 500 012	7.6	0.000 000	0.002
	100 %	0	3452 500 012	7.4	0.000 000	0.002
	100 %	+10	3452 500 012	6.9	0.000 000	0.002
	100 %	+30	3452 500 015	10.6	0.000 000	0.003
	100 %	+40	3452 499 999	-5.3	0.000 000	-0.002
	100 %	+50	3452 499 998	-6.6	0.000 000	-0.002
	Lowest voltage	+20	3452 500 012	7.8	0.000 000	0.002
3547.500	100 %	+20(Ref)	3547 500 007	0.0	0.000 000	0.000
	100 %	-30	3547 500 013	5.8	0.000 000	0.002
	100 %	-20	3547 500 013	5.5	0.000 000	0.002
	100 %	-10	3547 500 000	-6.8	0.000 000	-0.002
	100 %	0	3547 500 013	5.9	0.000 000	0.002
	100 %	+10	3547 500 015	8.0	0.000 000	0.002
	100 %	+30	3547 500 014	7.3	0.000 000	0.002
	100 %	+40	3547 500 002	-4.9	0.000 000	-0.001
	100 %	+50	3547 500 000	-6.9	0.000 000	-0.002
	Lowest voltage	+20	3547 500 014	6.4	0.000 000	0.002

- BandWidth: 10 MHz
- Voltage(100 %): 4.200 VDC
- Lowest voltage: 3.700 VDC
- LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
3455.000	100 %	+20(Ref)	3455 000 006	0.0	0.000 000	0.000
	100 %	-30	3455 000 013	7.4	0.000 000	0.002
	100 %	-20	3455 000 013	7.5	0.000 000	0.002
	100 %	-10	3455 000 015	9.0	0.000 000	0.003
	100 %	0	3454 999 997	-8.3	0.000 000	-0.002
	100 %	+10	3455 000 012	6.7	0.000 000	0.002
	100 %	+30	3455 000 001	-4.7	0.000 000	-0.001
	100 %	+40	3455 000 000	-5.1	0.000 000	-0.001
	100 %	+50	3454 999 998	-7.1	0.000 000	-0.002
	Lowest voltage	+20	3455 000 011	5.8	0.000 000	0.002
3545.000	100 %	+20(Ref)	3545 000 012	0.0	0.000 000	0.000
	100 %	-30	3545 000 021	9.3	0.000 000	0.003
	100 %	-20	3545 000 022	10.2	0.000 000	0.003
	100 %	-10	3545 000 017	5.3	0.000 000	0.001
	100 %	0	3545 000 019	7.1	0.000 000	0.002
	100 %	+10	3545 000 018	6.5	0.000 000	0.002
	100 %	+30	3545 000 005	-7.4	0.000 000	-0.002
	100 %	+40	3545 000 018	5.6	0.000 000	0.002
	100 %	+50	3545 000 024	12.0	0.000 000	0.003
	Lowest voltage	+20	3545 000 008	-4.4	0.000 000	-0.001

- BandWidth: 15 MHz
- Voltage(100 %): 4.200 VDC
- Lowest voltage: 3.700 VDC
- LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
3457.500	100 %	+20(Ref)	3457 500 005	0.0	0.000 000	0.000
	100 %	-30	3457 500 000	-5.9	0.000 000	-0.002
	100 %	-20	3457 500 014	8.2	0.000 000	0.002
	100 %	-10	3457 500 011	5.6	0.000 000	0.002
	100 %	0	3457 500 013	7.8	0.000 000	0.002
	100 %	+10	3457 500 013	7.6	0.000 000	0.002
	100 %	+30	3457 500 011	5.5	0.000 000	0.002
	100 %	+40	3457 500 013	7.1	0.000 000	0.002
	100 %	+50	3457 500 016	10.3	0.000 000	0.003
	Lowest voltage	+20	3457 500 001	-4.9	0.000 000	-0.001
3542.500	100 %	+20(Ref)	3542 499 994	0.0	0.000 000	0.000
	100 %	-30	3542 499 988	-6.0	0.000 000	-0.002
	100 %	-20	3542 499 986	-8.2	0.000 000	-0.002
	100 %	-10	3542 499 987	-7.0	0.000 000	-0.002
	100 %	0	3542 499 989	-5.3	0.000 000	-0.001
	100 %	+10	3542 499 987	-6.7	0.000 000	-0.002
	100 %	+30	3542 499 986	-8.6	0.000 000	-0.002
	100 %	+40	3542 500 006	11.8	0.000 000	0.003
	100 %	+50	3542 499 989	-5.1	0.000 000	-0.001
	Lowest voltage	+20	3542 499 987	-7.3	0.000 000	-0.002

- BandWidth: 20 MHz
- Voltage(100 %): 4.200 VDC
- Lowest voltage: 3.700 VDC
- LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
3460.000	100 %	+20(Ref)	3460 000 007	0.0	0.000 000	0.000
	100 %	-30	3460 000 012	4.9	0.000 000	0.001
	100 %	-20	3460 000 013	5.9	0.000 000	0.002
	100 %	-10	3460 000 001	-6.7	0.000 000	-0.002
	100 %	0	3460 000 017	9.6	0.000 000	0.003
	100 %	+10	3460 000 015	7.2	0.000 000	0.002
	100 %	+30	3460 000 013	5.1	0.000 000	0.001
	100 %	+40	3460 000 013	5.6	0.000 000	0.002
	100 %	+50	3460 000 018	10.5	0.000 000	0.003
	Lowest voltage	+20	3460 000 012	4.8	0.000 000	0.001
3540.000	100 %	+20(Ref)	3540 000 007	0.0	0.000 000	0.000
	100 %	-30	3540 000 011	3.8	0.000 000	0.001
	100 %	-20	3540 000 012	4.9	0.000 000	0.001
	100 %	-10	3540 000 014	7.0	0.000 000	0.002
	100 %	0	3540 000 018	10.6	0.000 000	0.003
	100 %	+10	3540 000 001	-6.9	0.000 000	-0.002
	100 %	+30	3540 000 012	4.6	0.000 000	0.001
	100 %	+40	3540 000 000	-7.0	0.000 000	-0.002
	100 %	+50	3540 000 013	5.8	0.000 000	0.002
	Lowest voltage	+20	3540 000 001	-6.3	0.000 000	-0.002

9. TEST DATA (MIMO2)

9.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute LEVEL (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3452.5	LTE B42 (5 MHz)	QPSK	-30.58	14.33	11.47	3.04	H	< 1.00	0.189	22.76	1	12
		16-QAM	-31.21	13.70	11.47	3.04	H		0.163	22.13		
		64-QAM	-31.73	13.18	11.47	3.04	H		0.145	21.61		
		256-QAM	-34.75	10.16	11.47	3.04	H		0.072	18.59		
3500.0		QPSK	-31.58	13.27	11.59	3.04	H		0.152	21.82	1	0
		16-QAM	-32.03	12.82	11.59	3.04	H		0.137	21.37		
		64-QAM	-32.59	12.26	11.59	3.04	H		0.121	20.81		
		256-QAM	-35.60	9.25	11.59	3.04	H		0.060	17.80		
3547.5		QPSK	-28.35	16.41	11.66	3.09	H		0.315	24.98	1	24
		16-QAM	-29.10	15.66	11.66	3.09	H		0.265	24.23		
		64-QAM	-29.66	15.10	11.66	3.09	H		0.233	23.67		
		256-QAM	-32.65	12.11	11.66	3.09	H		0.117	20.68		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute LEVEL (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3455.0	LTE B42 (10 MHz)	QPSK	-31.07	13.84	11.47	3.04	H	< 1.00	0.169	22.27	1	24
		16-QAM	-31.45	13.46	11.47	3.04	H		0.155	21.89		
		64-QAM	-32.09	12.82	11.47	3.04	H		0.133	21.25		
		256-QAM	-35.10	9.81	11.47	3.04	H		0.067	18.24		
3500.0		QPSK	-31.68	13.17	11.59	3.04	H		0.149	21.72	1	49
		16-QAM	-31.81	13.04	11.59	3.04	H		0.144	21.59		
		64-QAM	-32.36	12.49	11.59	3.04	H		0.127	21.04		
		256-QAM	-35.35	9.50	11.59	3.04	H		0.064	18.05		
3545.0		QPSK	-28.89	15.87	11.65	3.07	H		0.279	24.45	1	49
		16-QAM	-29.15	15.61	11.65	3.07	H		0.262	24.19		
		64-QAM	-29.70	15.06	11.65	3.07	H		0.231	23.64		
		256-QAM	-32.70	12.06	11.65	3.07	H		0.116	20.64		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute LEVEL (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3457.5	LTE B42 (15 MHz)	QPSK	-30.99	13.92	11.48	3.04	H	< 1.00	0.172	22.36	1	0
		16-QAM	-31.08	13.83	11.48	3.04	H		0.169	22.27		
		64-QAM	-31.72	13.19	11.48	3.04	H		0.146	21.63		
		256-QAM	-34.72	10.19	11.48	3.04	H		0.073	18.63		
3500.0		QPSK	-31.53	13.32	11.59	3.04	H		0.154	21.87	1	0
		16-QAM	-32.08	12.77	11.59	3.04	H		0.136	21.32		
		64-QAM	-32.64	12.21	11.59	3.04	H		0.119	20.76		
		256-QAM	-35.63	9.22	11.59	3.04	H		0.060	17.77		
3542.5		QPSK	-29.01	15.75	11.65	3.07	H		0.271	24.33	1	37
		16-QAM	-29.51	15.25	11.65	3.07	H		0.242	23.83		
		64-QAM	-30.20	14.56	11.65	3.07	H		0.206	23.14		
		256-QAM	-33.19	11.57	11.65	3.07	H		0.104	20.15		

Freq (MHz)	Bandwidth	Modulation	Measured Level (dBm)	Substitute LEVEL (dBm)	Ant. Gain (dBi)	C.L	Pol.	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3460.0	LTE B42 (20 MHz)	QPSK	-31.42	13.49	11.48	3.04	H	< 1.00	0.156	21.93	1	49
		16-QAM	-31.95	12.96	11.48	3.04	H		0.138	21.40		
		64-QAM	-32.37	12.54	11.48	3.04	H		0.125	20.98		
		256-QAM	-34.86	10.05	11.48	3.04	H		0.071	18.49		
3500.0		QPSK	-31.56	13.29	11.59	3.04	H		0.153	21.84	1	99
		16-QAM	-32.05	12.80	11.59	3.04	H		0.136	21.35		
		64-QAM	-32.68	12.17	11.59	3.04	H		0.118	20.72		
		256-QAM	-35.66	9.19	11.59	3.04	H		0.059	17.74		
3540.0		QPSK	-28.77	16.00	11.64	3.06	H		0.287	24.58	1	99
		16-QAM	-29.23	15.54	11.64	3.06	H		0.258	24.12		
		64-QAM	-29.82	14.95	11.64	3.06	H		0.225	23.53		
		256-QAM	-32.80	11.97	11.64	3.06	H		0.114	20.55		

9.2 RADIATED SPURIOUS EMISSIONS

▣ MODE: LTE B42

▣ MODULATION SIGNAL: 5 MHz QPSK

▣ DISTANCE: 1 meters

Ch	Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
42115 (3452.5)	6 905.00	-54.82	11.19	-57.18	4.40	V	-50.39	-13.00	1	12
	10 357.50	-54.79	11.66	-53.80	5.55	H	-47.69	-13.00		
	13 810.00	-60.67	13.36	-49.28	6.53	V	-42.45	-13.00		
	17 262.50	-62.76	17.80	-42.35	7.42	V	-31.97	-13.00		
42590 (3500)	7 000.00	-53.81	11.14	-56.41	4.45	H	-49.72	-13.00	1	0
	10 500.00	-53.38	11.71	-53.79	5.64	H	-47.72	-13.00		
	14 000.00	-61.19	13.09	-49.27	6.55	H	-42.73	-13.00		
	17 500.00	-62.92	17.36	-37.87	7.42	H	-27.93	-13.00		
43065 (3547.5)	7 095.00	-49.57	10.86	-51.77	4.48	V	-45.39	-13.00	1	24
	10 642.50	-54.00	11.62	-54.53	5.63	H	-48.54	-13.00		
	14 190.00	-61.55	13.06	-47.96	6.63	H	-41.53	-13.00		
	17 737.50	-61.08	16.39	-31.84	7.56	V	-23.01	-13.00		

9.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)	Limit (dB)
42	5MHz	3500.0	QPSK	Full RB	0	5.50	13.00
			16-QAM			6.27	
			64-QAM			6.43	
			256-QAM			6.51	
	10MHz		QPSK			5.73	
			16-QAM			6.32	
			64-QAM			6.52	
			256-QAM			6.50	
	15MHz		QPSK			5.68	
			16-QAM			6.29	
			64-QAM			6.56	
			256-QAM			6.48	
	20MHz		QPSK			5.61	
			16-QAM			6.22	
			64-QAM			6.57	
			256-QAM			6.59	

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 153 ~ 168.

9.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
42	5MHz	3500.0	QPSK	Full RB	0	4.4916
			16-QAM			4.4855
			64-QAM			4.5009
			256-QAM			4.4948
	10MHz		QPSK			8.9814
			16-QAM			8.9773
			64-QAM			8.9731
			256-QAM			8.9665
	15MHz		QPSK			13.462
			16-QAM			13.451
			64-QAM			13.474
			256-QAM			13.465
	20MHz		QPSK			17.963
			16-QAM			17.902
			64-QAM			17.911
			256-QAM			17.906

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 169 ~ 184.

9.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
42	5	3452.500	4.91530	28.150	-66.36	-38.210	-13.00
		3500.000	4.01800	28.150	-65.96	-37.812	
		3547.500	4.05788	28.150	-67.08	-38.933	
	10	3455.000	9.37189	28.730	-66.52	-37.790	
		3500.000	3.84851	28.150	-65.86	-37.713	
		3545.000	4.90533	28.150	-66.44	-38.287	
	15	3457.500	5.40383	28.730	-66.88	-38.152	
		3500.000	3.79866	28.150	-66.47	-38.316	
		3542.500	3.76875	28.150	-65.25	-37.101	
	20	3460.000	7.50750	28.730	-67.40	-38.668	
		3500.000	3.99806	28.150	-66.66	-38.509	
		3540.000	4.13764	28.150	-67.03	-38.881	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 188 ~ 208.
2. Conducted Spurious Emissions was Tested QPSK Modulation, Resource Block Size 1 and Resource Block Offset 0
3. Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter
4. Result(dBm) = Reading + Factor

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.270
1 – 5	28.150
5 – 10	28.730
10 – 15	29.330
15 – 20	30.520
Above 20	31.890

9.6 BAND EDGE

1. Plots of the EUT's Band Edge are shown Page 209 ~ 256.
2. 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) = 3.979

9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- BandWidth: 5 MHz
- Voltage(100 %): 4.200 VDC
- Lowest voltage: 3.700 VDC
- LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
3452.500	100 %	+20(Ref)	3452 499 994	0.0	0.000 000	0.000
	100 %	-30	3452 500 003	9.4	0.000 000	0.003
	100 %	-20	3452 500 000	5.9	0.000 000	0.002
	100 %	-10	3452 499 985	-8.5	0.000 000	-0.002
	100 %	0	3452 499 985	-8.3	0.000 000	-0.002
	100 %	+10	3452 500 004	10.0	0.000 000	0.003
	100 %	+30	3452 500 002	8.1	0.000 000	0.002
	100 %	+40	3452 499 999	5.1	0.000 000	0.001
	100 %	+50	3452 500 001	7.5	0.000 000	0.002
	Lowest voltage	+20	3452 499 988	-5.6	0.000 000	-0.002
3547.500	100 %	+20(Ref)	3547 500 009	0.0	0.000 000	0.000
	100 %	-30	3547 500 019	9.8	0.000 000	0.003
	100 %	-20	3547 500 017	7.9	0.000 000	0.002
	100 %	-10	3547 500 015	6.6	0.000 000	0.002
	100 %	0	3547 500 003	-5.4	0.000 000	-0.002
	100 %	+10	3547 500 020	11.1	0.000 000	0.003
	100 %	+30	3547 500 003	-5.8	0.000 000	-0.002
	100 %	+40	3547 500 016	7.7	0.000 000	0.002
	100 %	+50	3547 500 013	4.6	0.000 000	0.001
	Lowest voltage	+20	3547 500 015	5.8	0.000 000	0.002

▣ BandWidth: 10 MHz

▣ Voltage(100 %): 4.200 VDC

▣ Lowest voltage: 3.700 VDC

▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
3455.000	100 %	+20(Ref)	3455 000 008	0.0	0.000 000	0.000
	100 %	-30	3455 000 003	-5.2	0.000 000	-0.002
	100 %	-20	3455 000 001	-7.3	0.000 000	-0.002
	100 %	-10	3455 000 002	-5.9	0.000 000	-0.002
	100 %	0	3455 000 002	-5.7	0.000 000	-0.002
	100 %	+10	3455 000 001	-7.2	0.000 000	-0.002
	100 %	+30	3455 000 015	7.2	0.000 000	0.002
	100 %	+40	3455 000 002	-5.9	0.000 000	-0.002
	100 %	+50	3455 000 016	8.2	0.000 000	0.002
	Lowest voltage	+20	3455 000 014	6.3	0.000 000	0.002
3545.000	100 %	+20(Ref)	3544 999 995	0.0	0.000 000	0.000
	100 %	-30	3545 000 003	7.8	0.000 000	0.002
	100 %	-20	3544 999 991	-4.7	0.000 000	-0.001
	100 %	-10	3544 999 989	-6.2	0.000 000	-0.002
	100 %	0	3544 999 989	-6.0	0.000 000	-0.002
	100 %	+10	3544 999 986	-9.8	0.000 000	-0.003
	100 %	+30	3545 000 002	7.0	0.000 000	0.002
	100 %	+40	3545 000 006	10.4	0.000 000	0.003
	100 %	+50	3544 999 987	-8.1	0.000 000	-0.002
	Lowest voltage	+20	3544 999 989	-6.2	0.000 000	-0.002

- BandWidth: 15 MHz
- Voltage(100 %): 4.200 VDC
- Lowest voltage: 3.700 VDC
- LIMIT: Emission must remain in band

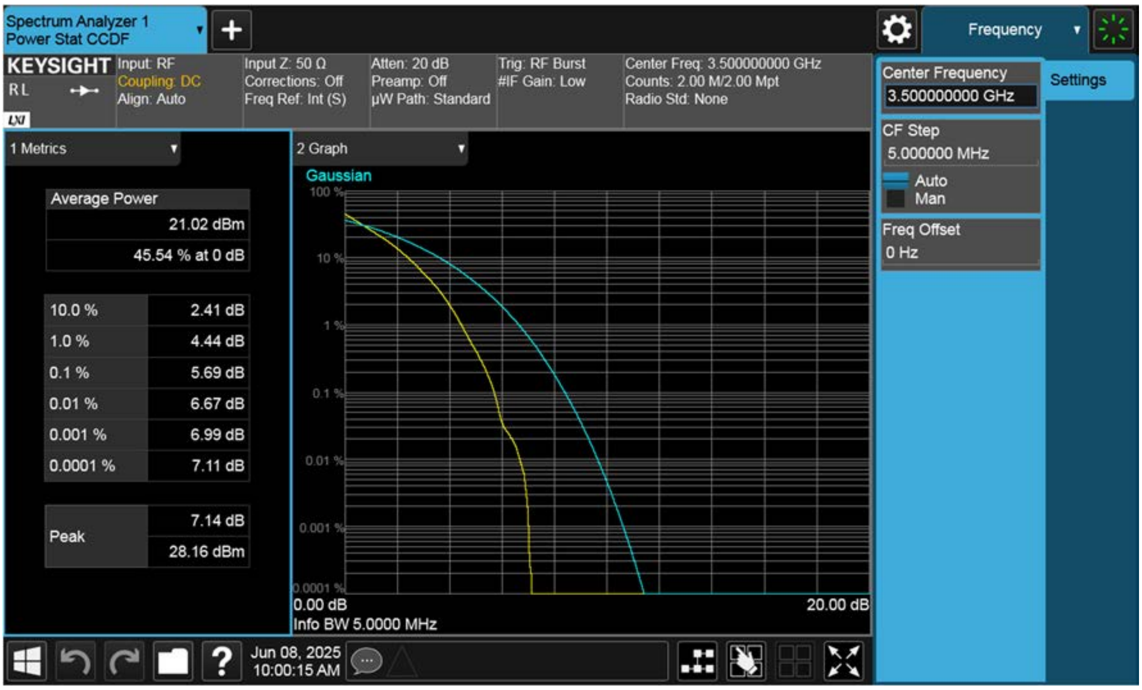
Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
3457.500	100 %	+20(Ref)	3457 499 995	0.0	0.000 000	0.000
	100 %	-30	3457 500 006	11.2	0.000 000	0.003
	100 %	-20	3457 499 985	-9.4	0.000 000	-0.003
	100 %	-10	3457 500 002	7.1	0.000 000	0.002
	100 %	0	3457 500 003	8.0	0.000 000	0.002
	100 %	+10	3457 499 989	-5.4	0.000 000	-0.002
	100 %	+30	3457 499 987	-7.6	0.000 000	-0.002
	100 %	+40	3457 499 989	-6.1	0.000 000	-0.002
	100 %	+50	3457 499 991	-4.1	0.000 000	-0.001
	Lowest voltage	+20	3457 499 999	4.5	0.000 000	0.001
3542.500	100 %	+20(Ref)	3542 500 007	0.0	0.000 000	0.000
	100 %	-30	3542 500 000	-7.0	0.000 000	-0.002
	100 %	-20	3542 500 001	-5.7	0.000 000	-0.002
	100 %	-10	3542 500 013	5.7	0.000 000	0.002
	100 %	0	3542 500 016	9.0	0.000 000	0.003
	100 %	+10	3542 500 018	11.4	0.000 000	0.003
	100 %	+30	3542 500 013	5.9	0.000 000	0.002
	100 %	+40	3542 500 012	4.7	0.000 000	0.001
	100 %	+50	3542 500 001	-6.0	0.000 000	-0.002
	Lowest voltage	+20	3542 500 013	6.2	0.000 000	0.002

- BandWidth: 20 MHz
- Voltage(100 %): 4.200 VDC
- Lowest voltage: 3.700 VDC
- LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
3460.000	100 %	+20(Ref)	3460 000 013	0.0	0.000 000	0.000
	100 %	-30	3460 000 023	10.6	0.000 000	0.003
	100 %	-20	3460 000 006	-6.9	0.000 000	-0.002
	100 %	-10	3460 000 020	7.6	0.000 000	0.002
	100 %	0	3460 000 009	-4.1	0.000 000	-0.001
	100 %	+10	3460 000 007	-5.2	0.000 000	-0.002
	100 %	+30	3460 000 020	7.3	0.000 000	0.002
	100 %	+40	3460 000 007	-5.2	0.000 000	-0.002
	100 %	+50	3460 000 007	-5.7	0.000 000	-0.002
	Lowest voltage	+20	3460 000 005	-7.3	0.000 000	-0.002
3540.000	100 %	+20(Ref)	3540 000 012	0.0	0.000 000	0.000
	100 %	-30	3540 000 018	6.7	0.000 000	0.002
	100 %	-20	3540 000 017	5.4	0.000 000	0.002
	100 %	-10	3540 000 018	6.4	0.000 000	0.002
	100 %	0	3540 000 020	8.0	0.000 000	0.002
	100 %	+10	3540 000 020	8.2	0.000 000	0.002
	100 %	+30	3540 000 006	-5.3	0.000 000	-0.001
	100 %	+40	3540 000 019	7.3	0.000 000	0.002
	100 %	+50	3540 000 016	4.5	0.000 000	0.001
	Lowest voltage	+20	3540 000 021	9.2	0.000 000	0.003

10. TEST PLOTS (MIMO1)

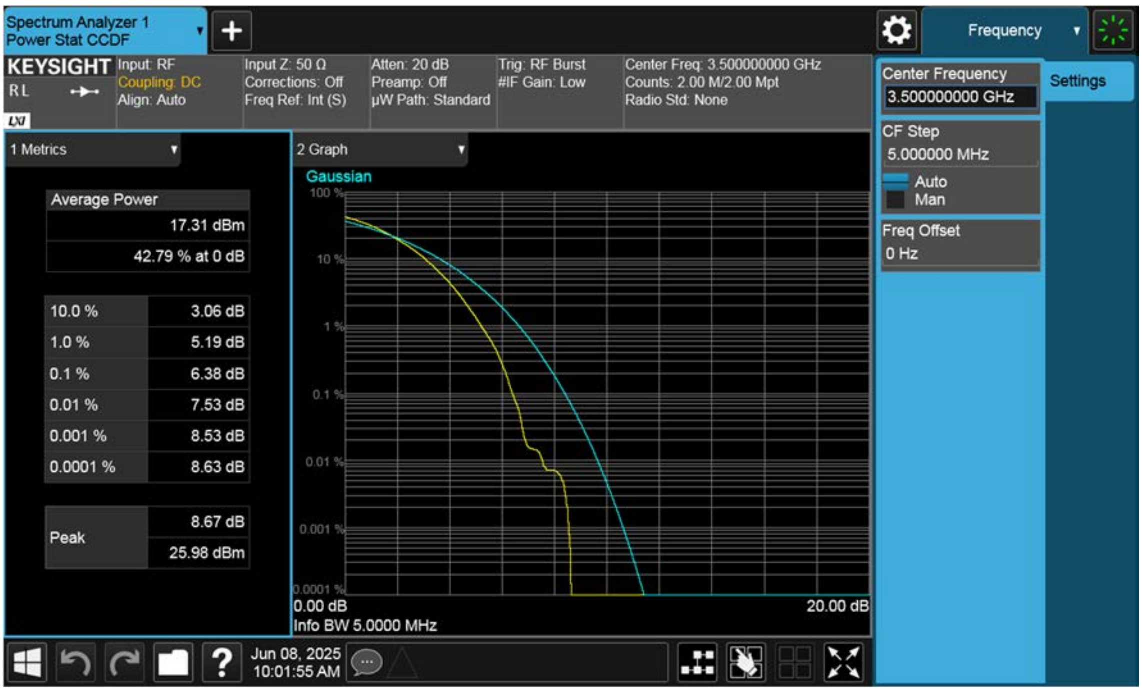
LTE B42_5 M_PAR_Mid_QPSK_FullRB



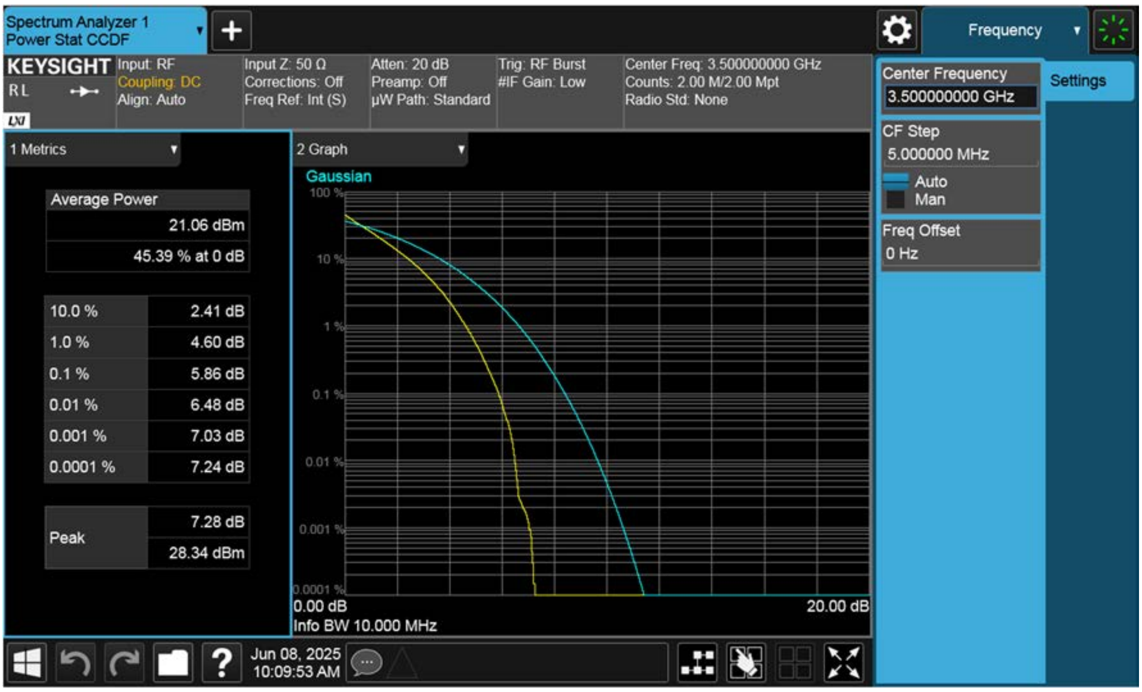
LTE B42_5 M_PAR_Mid_16QAM_FullRB

LTE B42_5 M_PAR_Mid_64QAM_FullRB

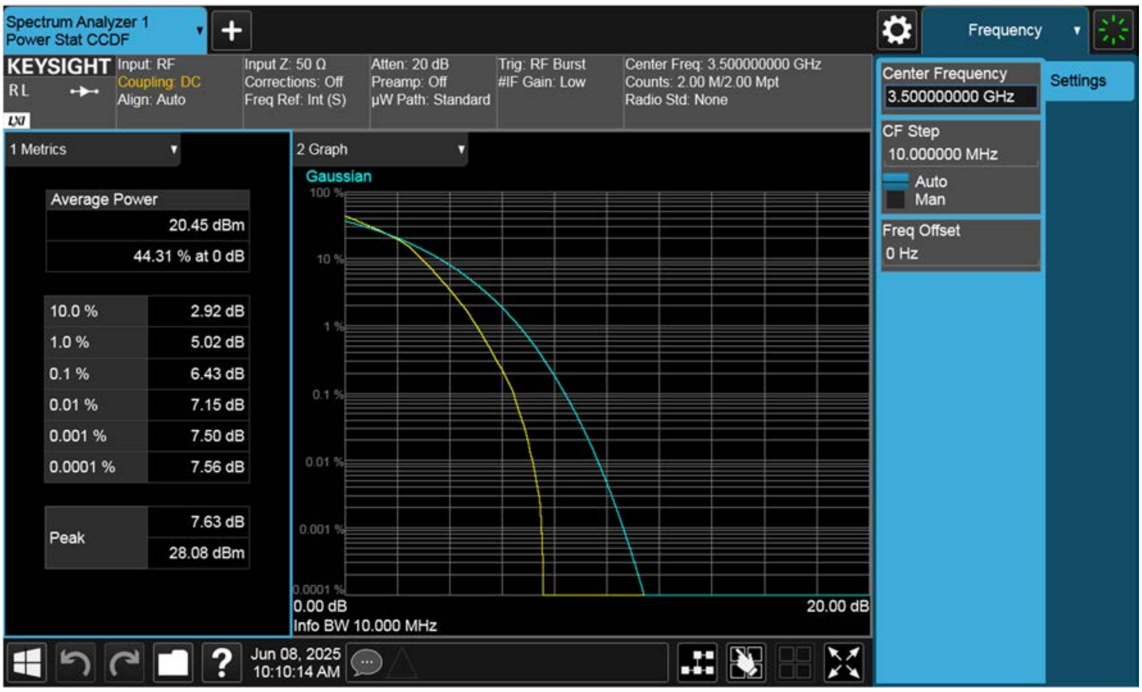
LTE B42_5 M_PAR_Mid_256QAM_FullRB



LTE B42_10 M_PAR_Mid_QPSK_FullRB



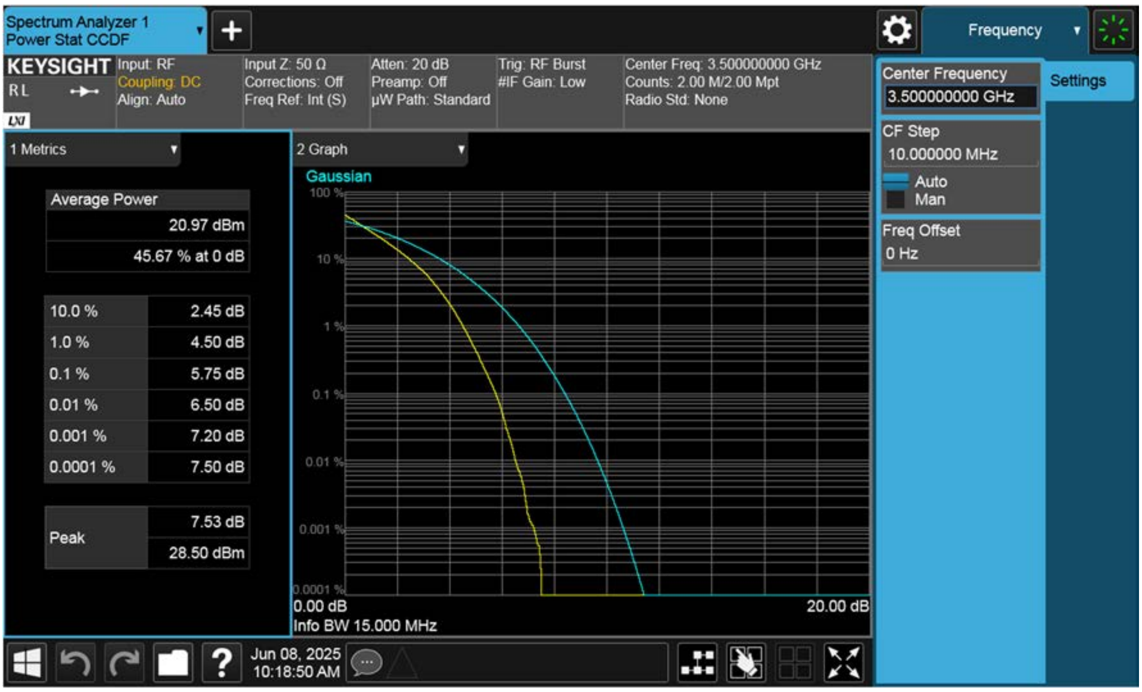
LTE B42_10 M_PAR_Mid_16QAM_FullRB



LTE B42_10 M_PAR_Mid_64QAM_FullRB

LTE B42_10 M_PAR_Mid_256QAM_FullRB

LTE B42_15 M_PAR_Mid_QPSK_FullRB

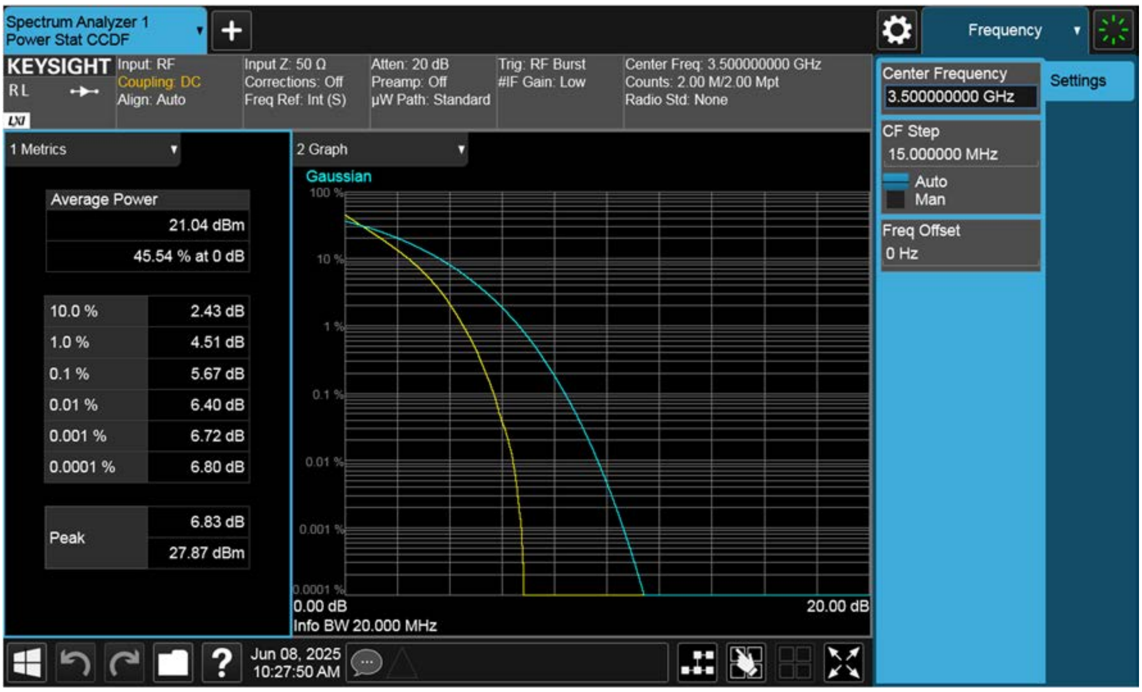


LTE B42_15 M_PAR_Mid_16QAM_FullRB

LTE B42_15 M_PAR_Mid_64QAM_FullRB

LTE B42_15 M_PAR_Mid_256QAM_FullRB

LTE B42_20 M_PAR_Mid_QPSK_FullRB

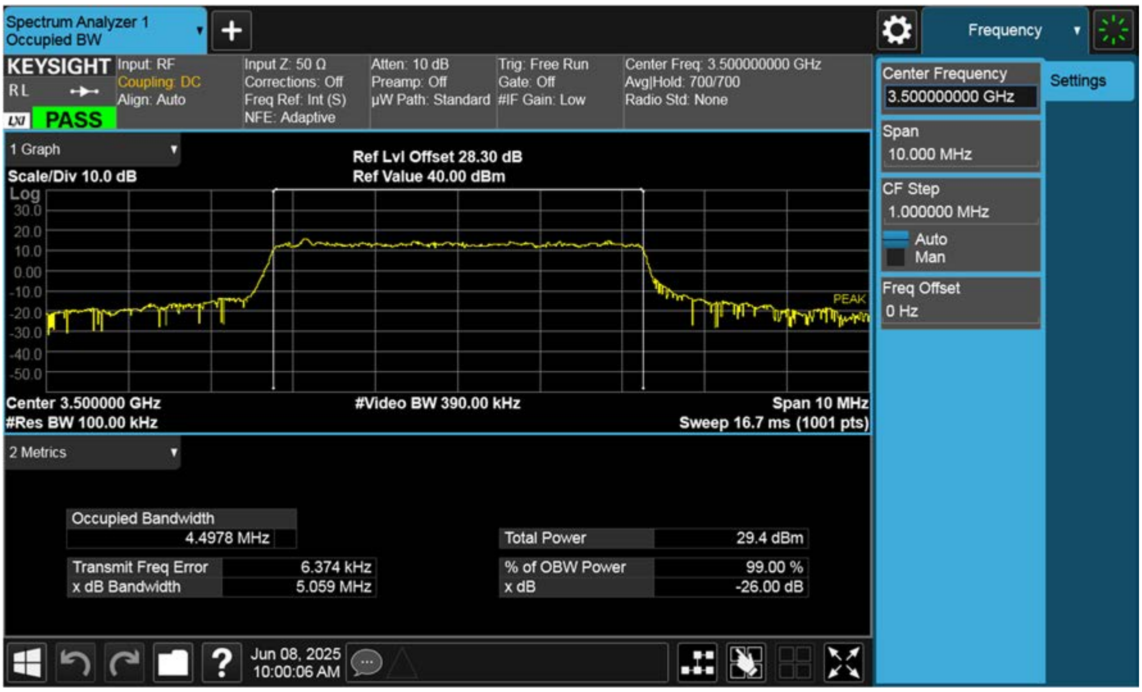


LTE B42_20 M_PAR_Mid_16QAM_FullRB

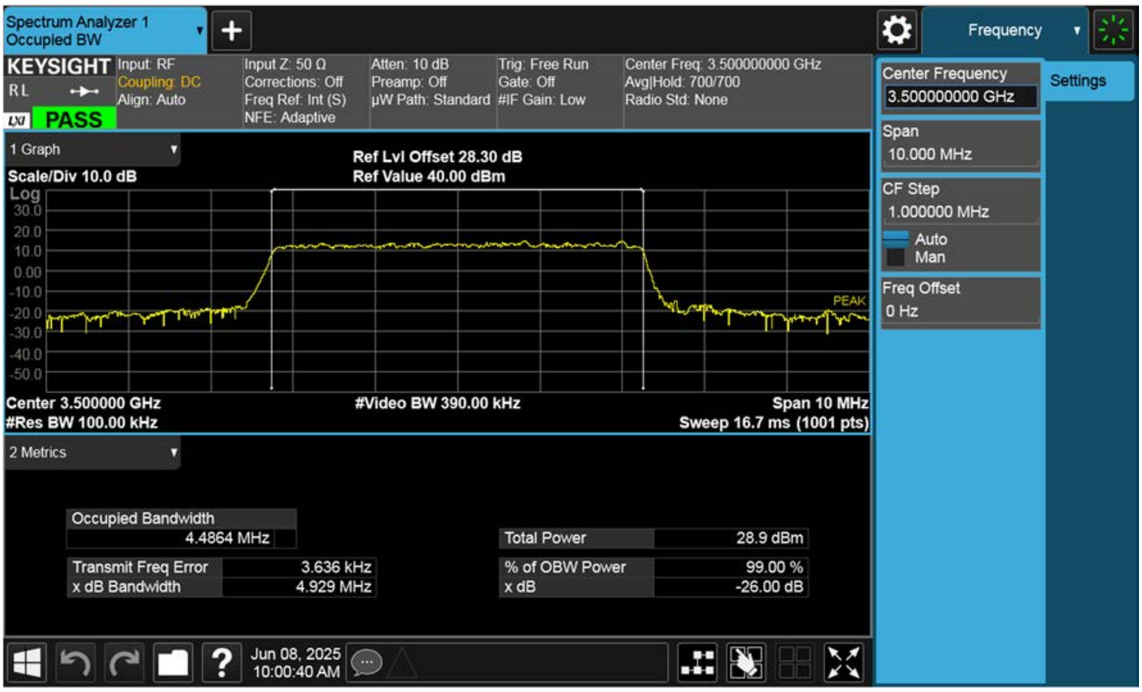
LTE B42_20 M_PAR_Mid_64QAM_FullRB

LTE B42_20 M_PAR_Mid_256QAM_FullRB

LTE B42_5 M_OBW_Mid_QPSK_FullRB

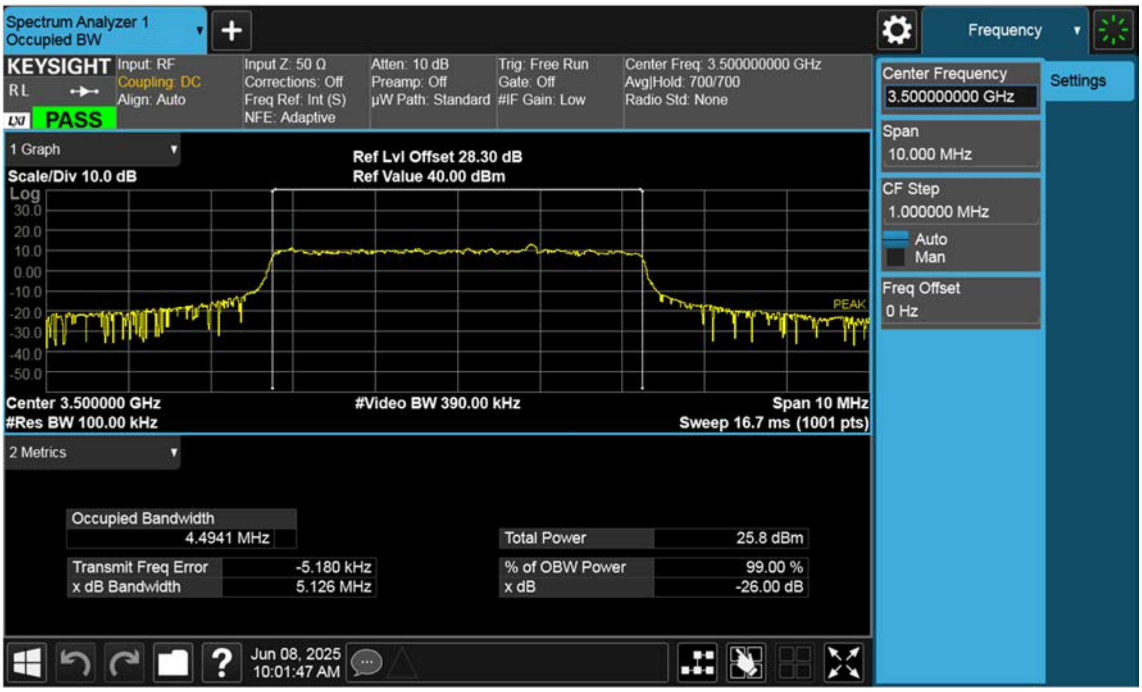


LTE B42_5 M_OBW_Mid_16QAM_FullRB

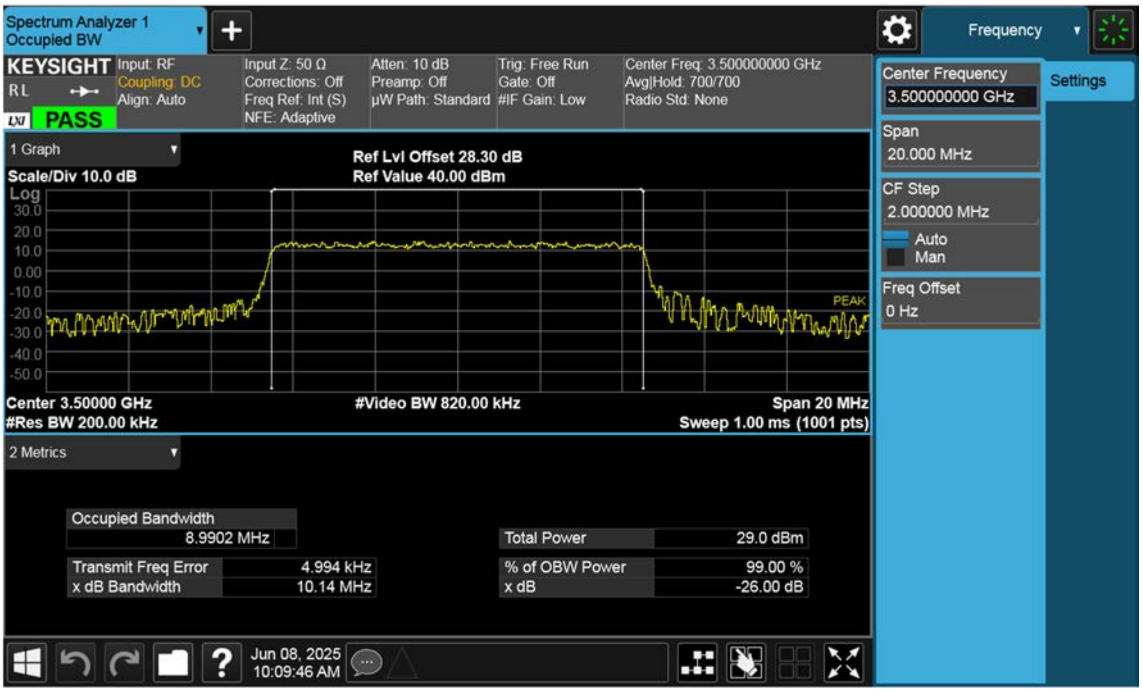


LTE B42_5 M_OBW_Mid_64QAM_FullRB

LTE B42_5 M_OBW_Mid_256QAM_FullRB



LTE B42_10 M_OBW_Mid_QPSK_FullRB



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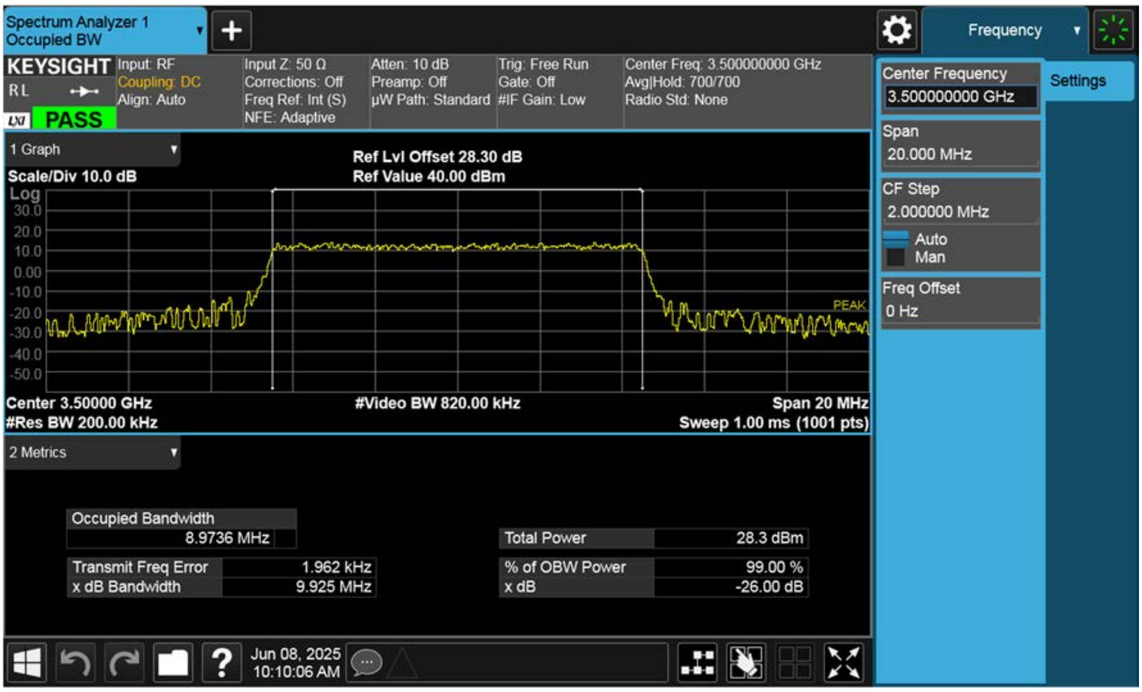

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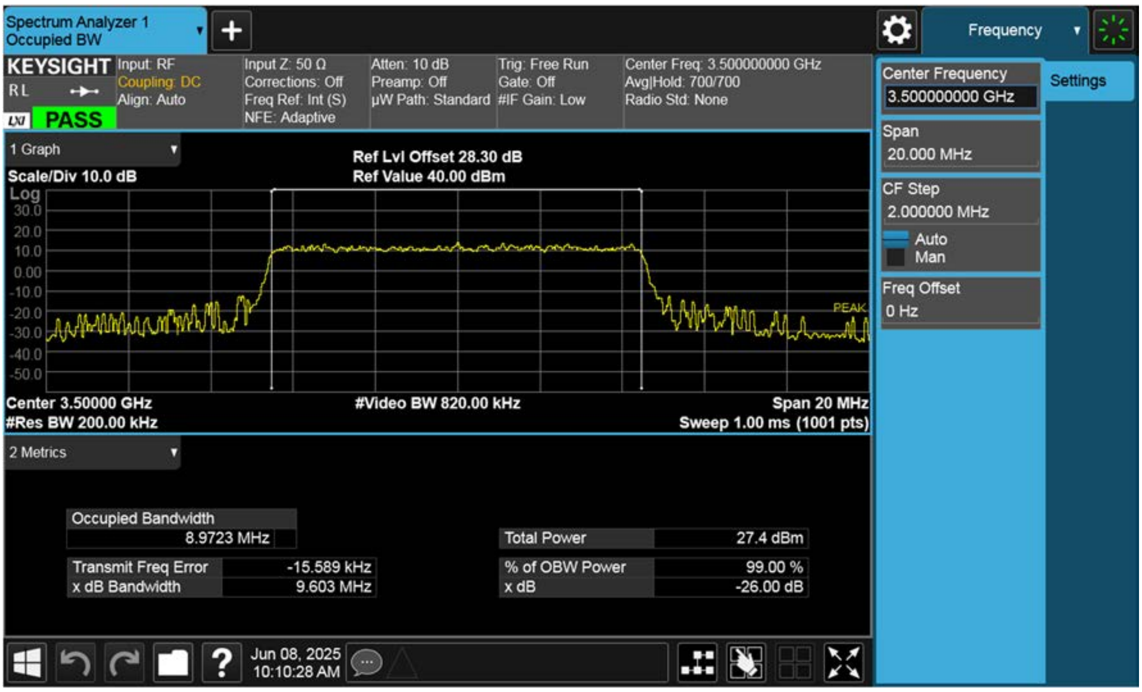

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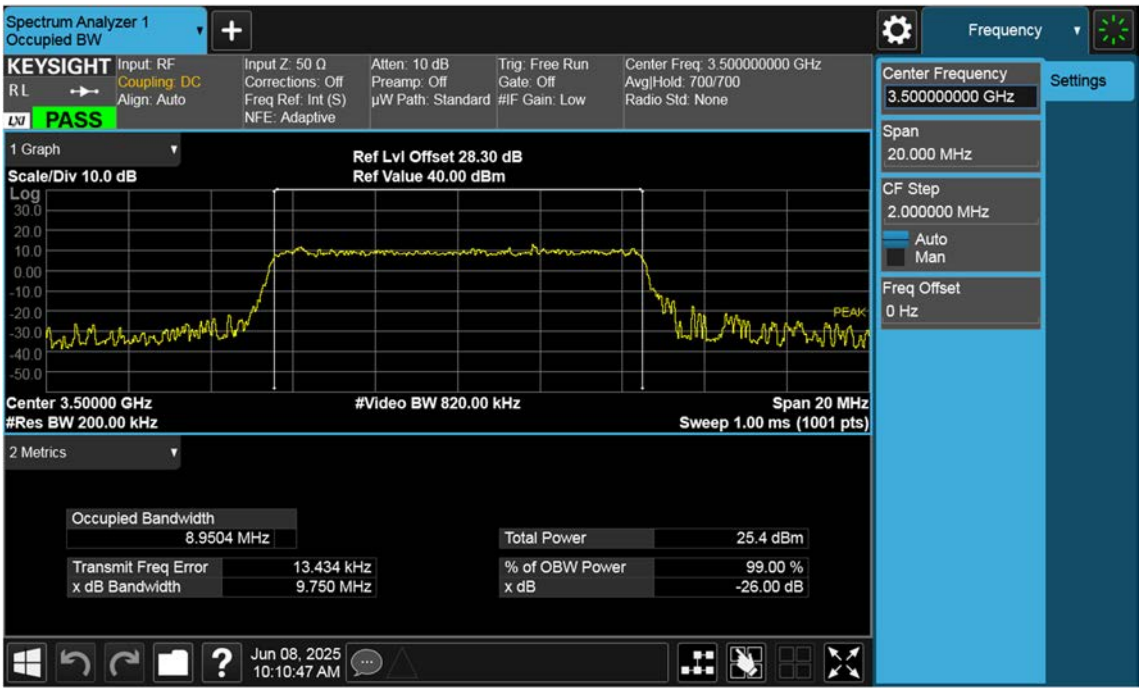
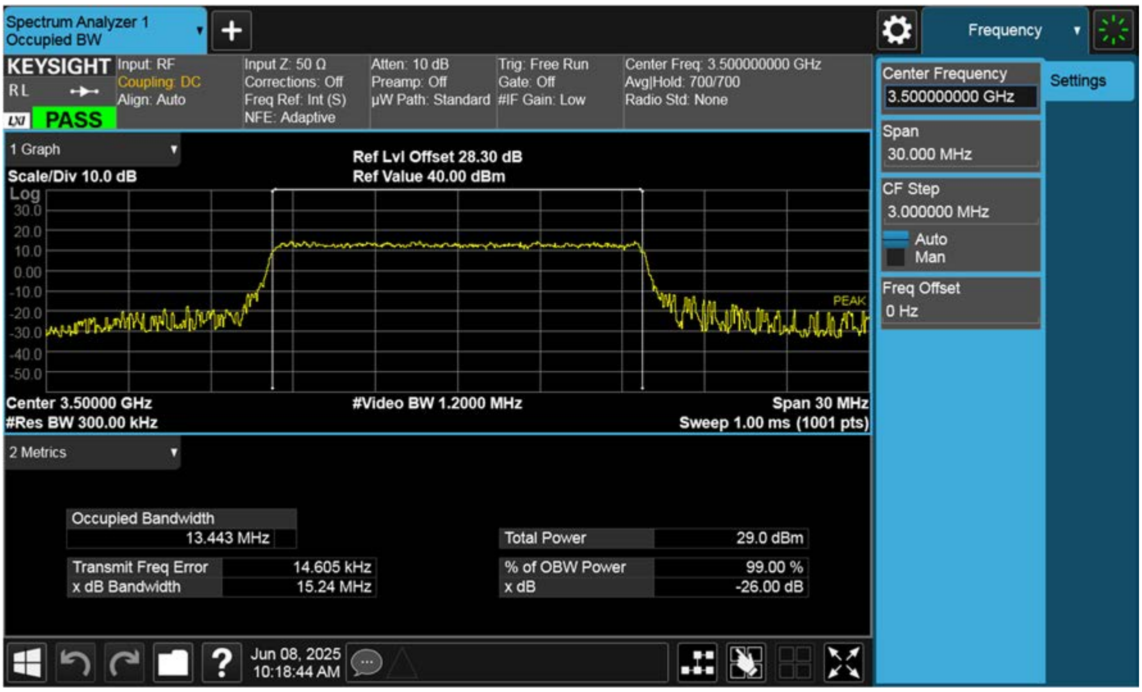
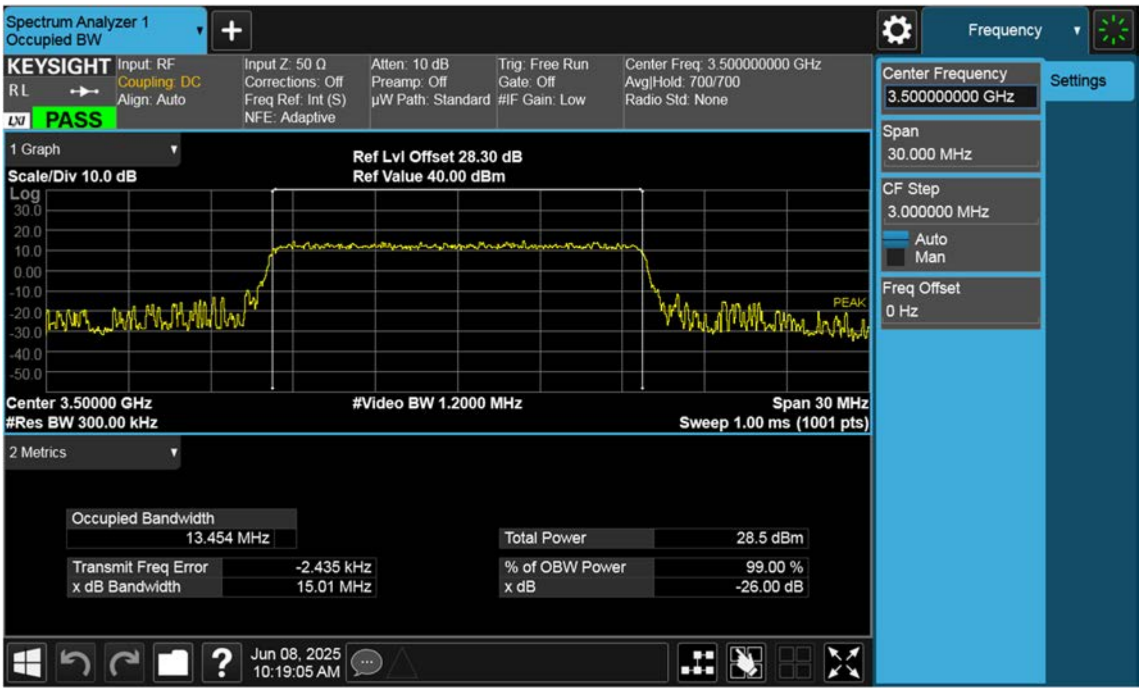


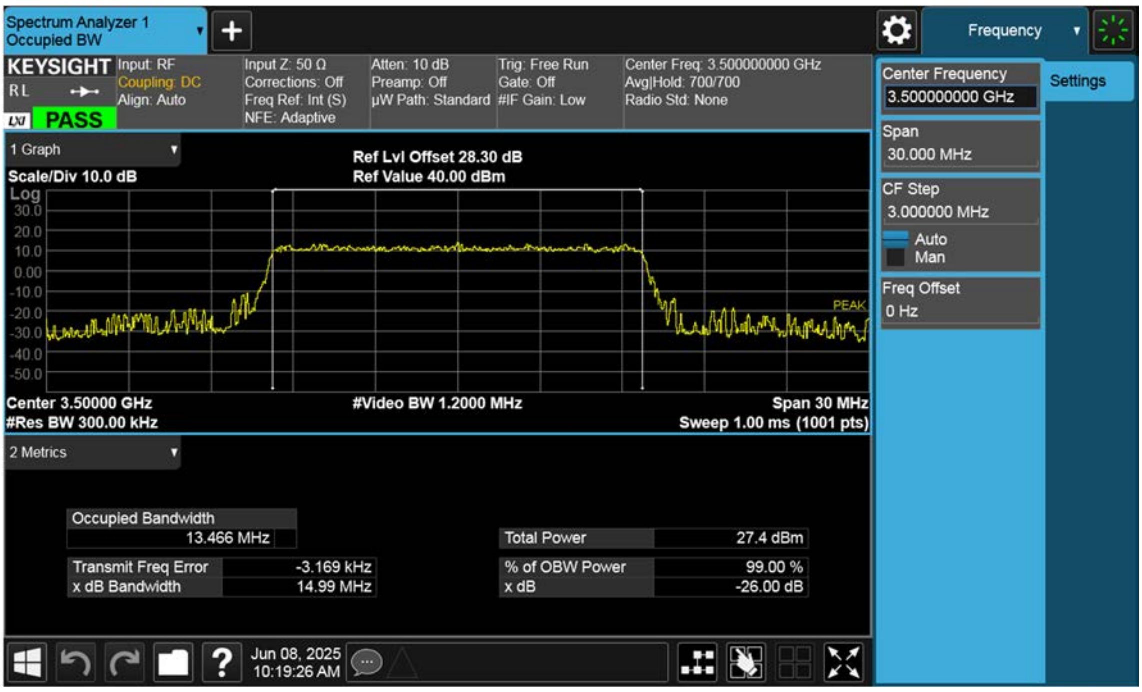
LTE B42_15 M_OBW_Mid_QPSK_FullRB



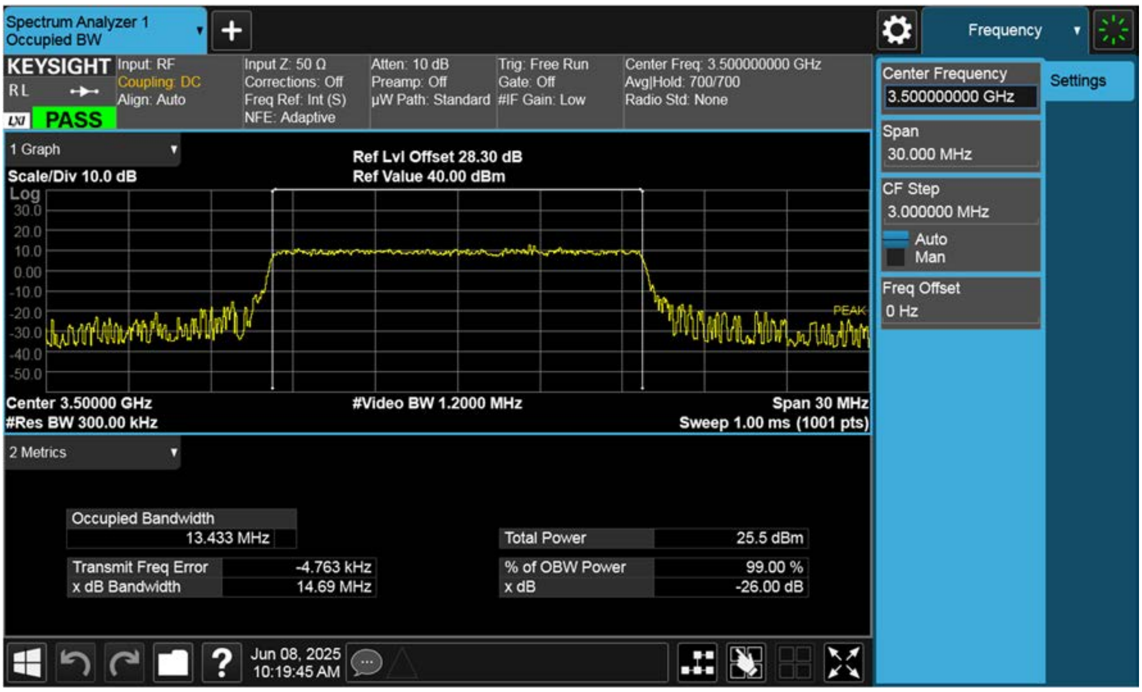
LTE B42_15 M_OBW_Mid_16QAM_FullRB



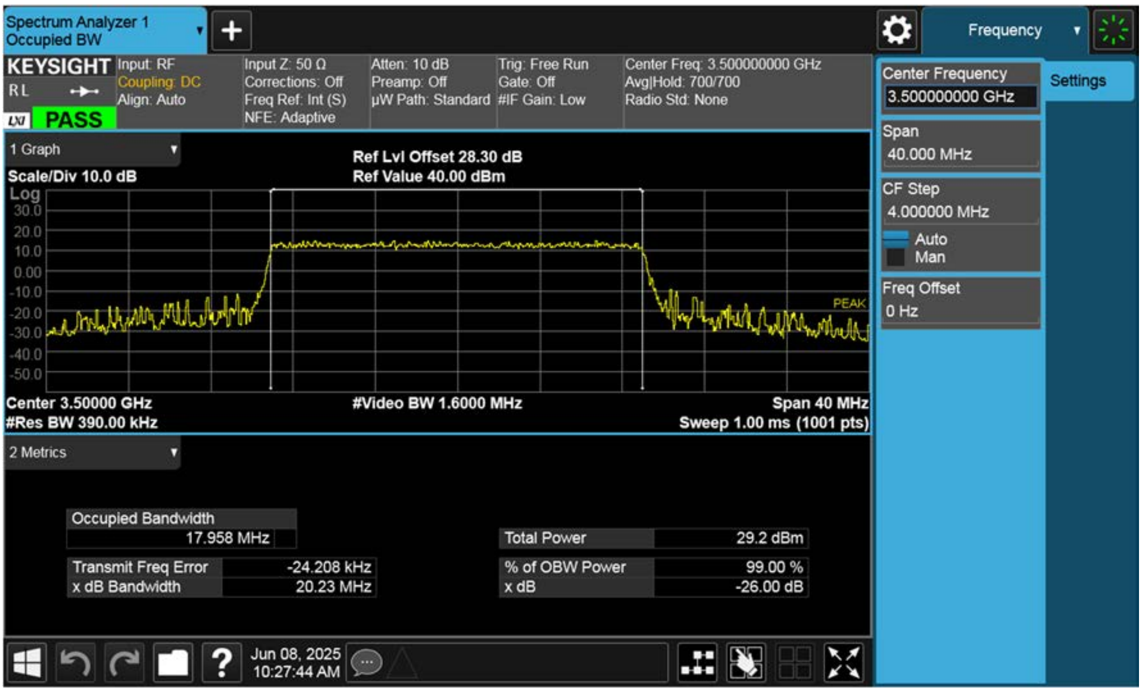
LTE B42_15 M_OBW_Mid_64QAM_FullRB



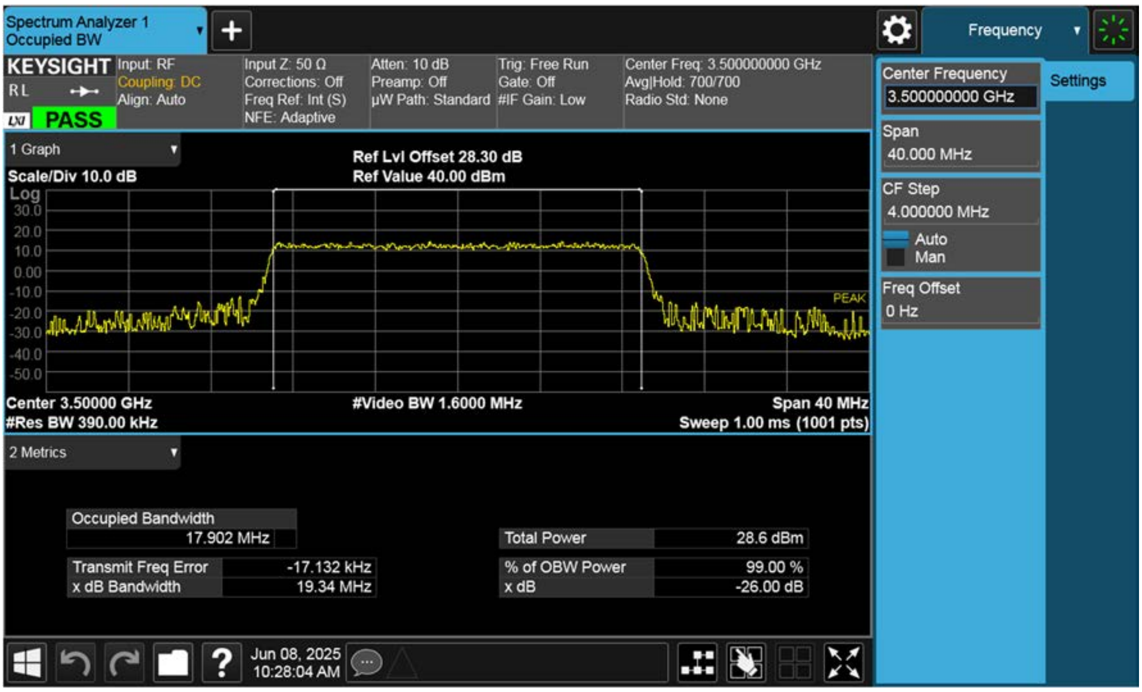
LTE B42_15 M_OBW_Mid_256QAM_FullRB



LTE B42_20 M_OBW_Mid_QPSK_FullRB



LTE B42_20 M_OBW_Mid_16QAM_FullRB



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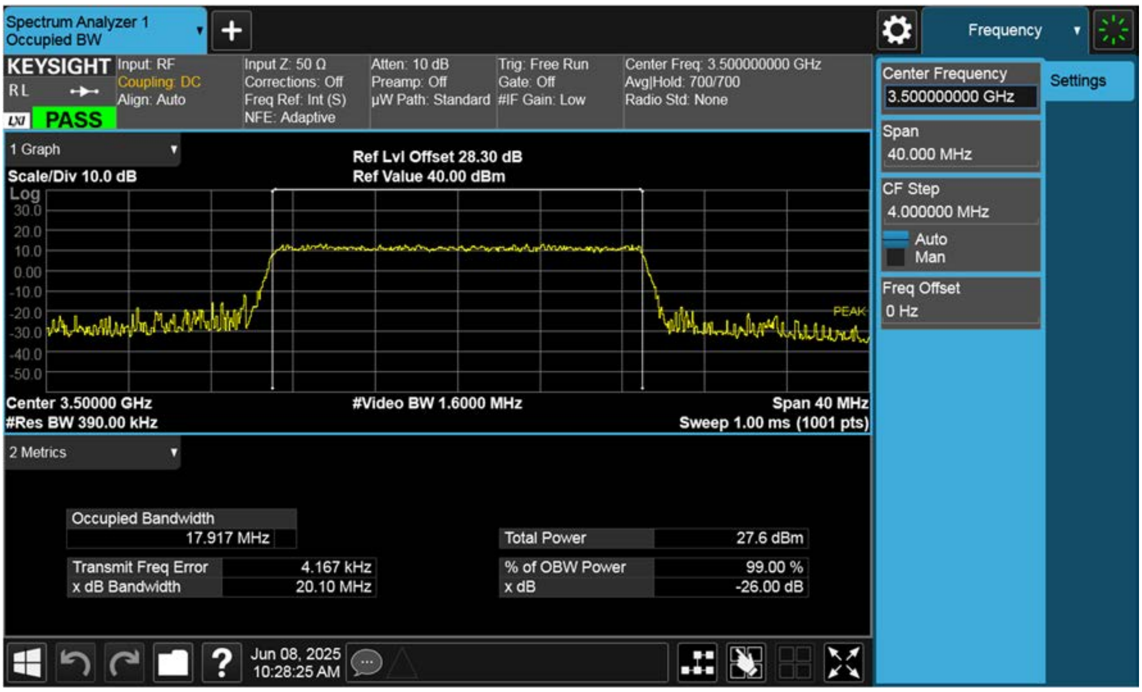
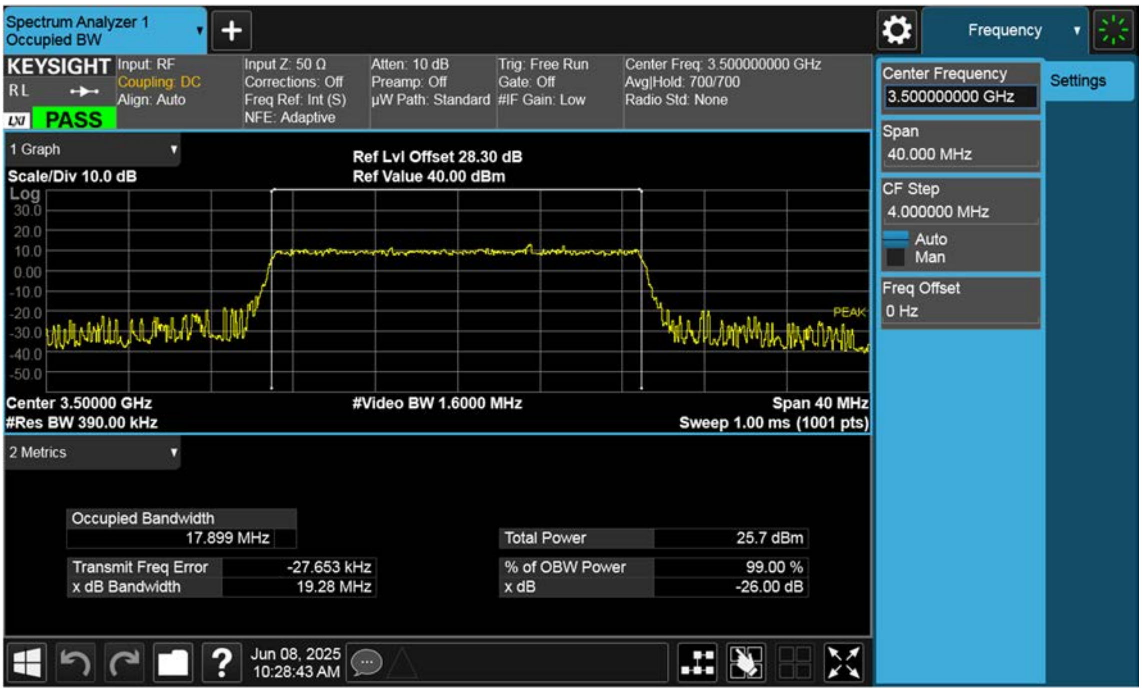
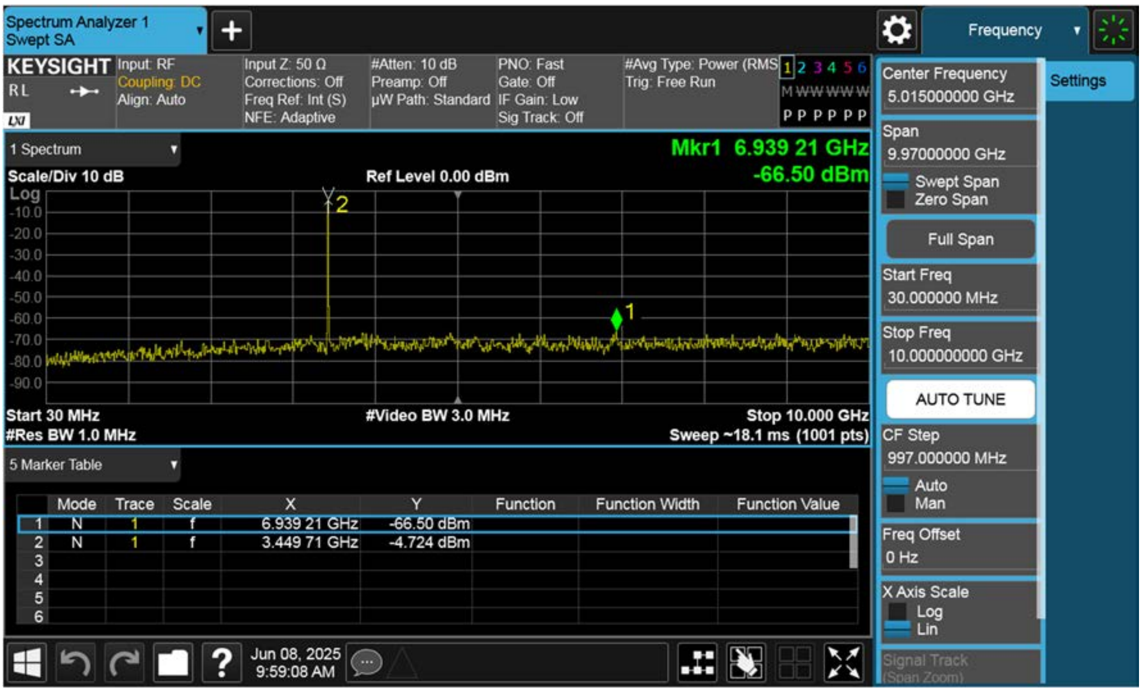


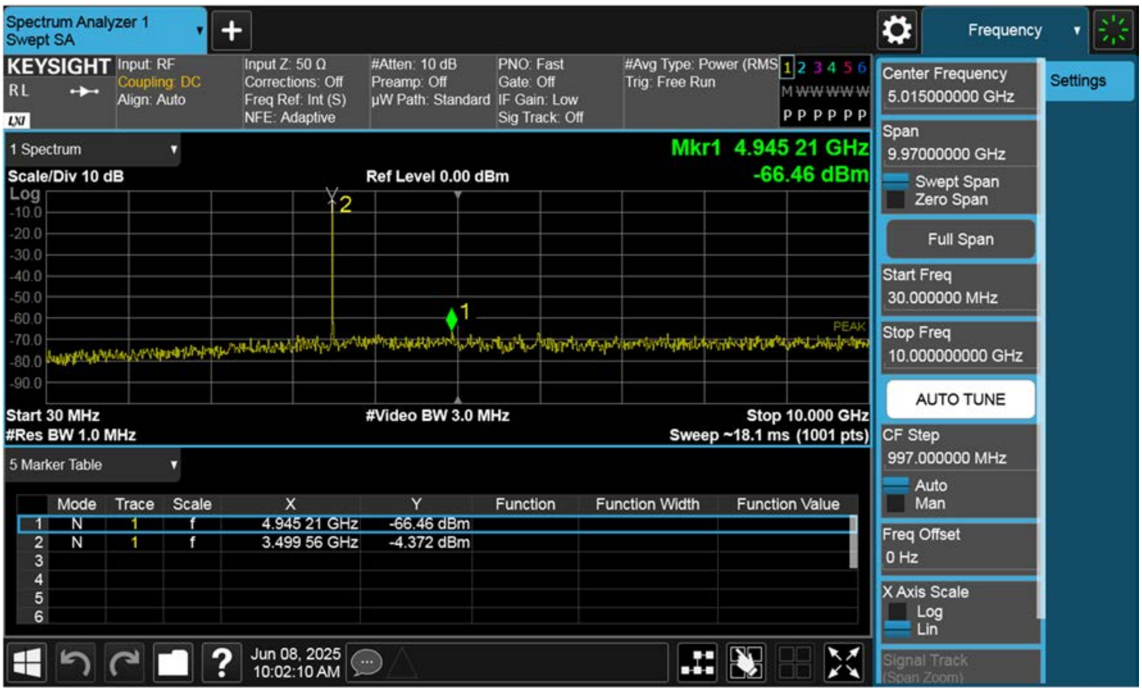
LTE B42_20 M_OBW_Mid_256QAM_FullRB



LTE B42_5 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



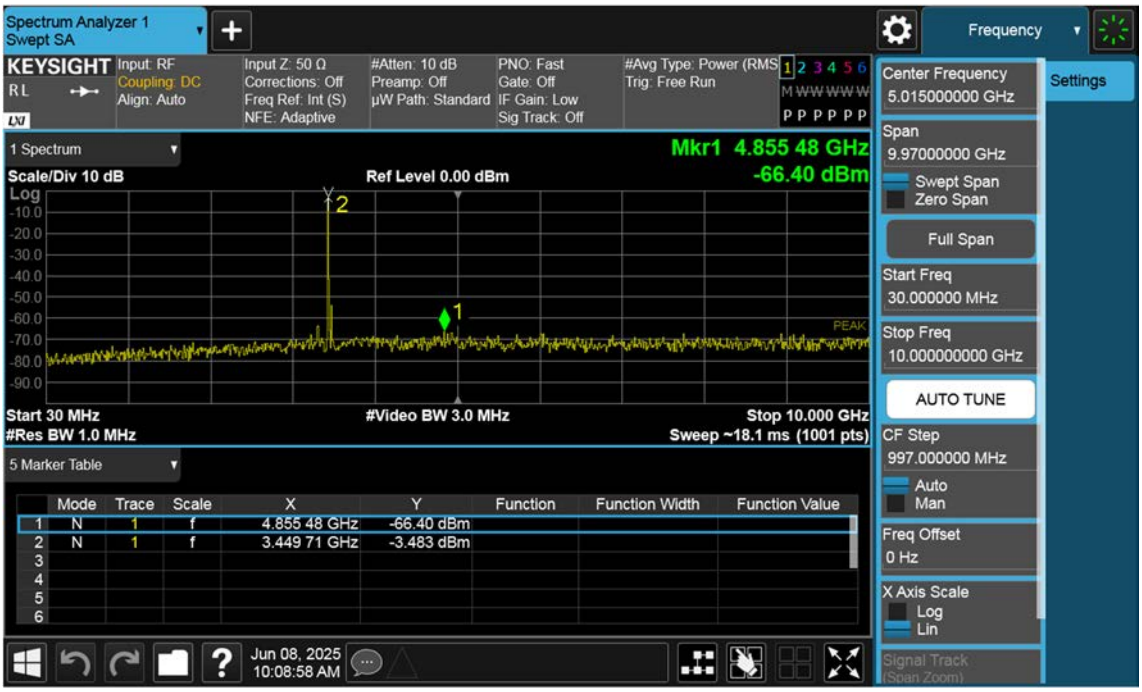
LTE B42_5 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



LTE B42_5 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB

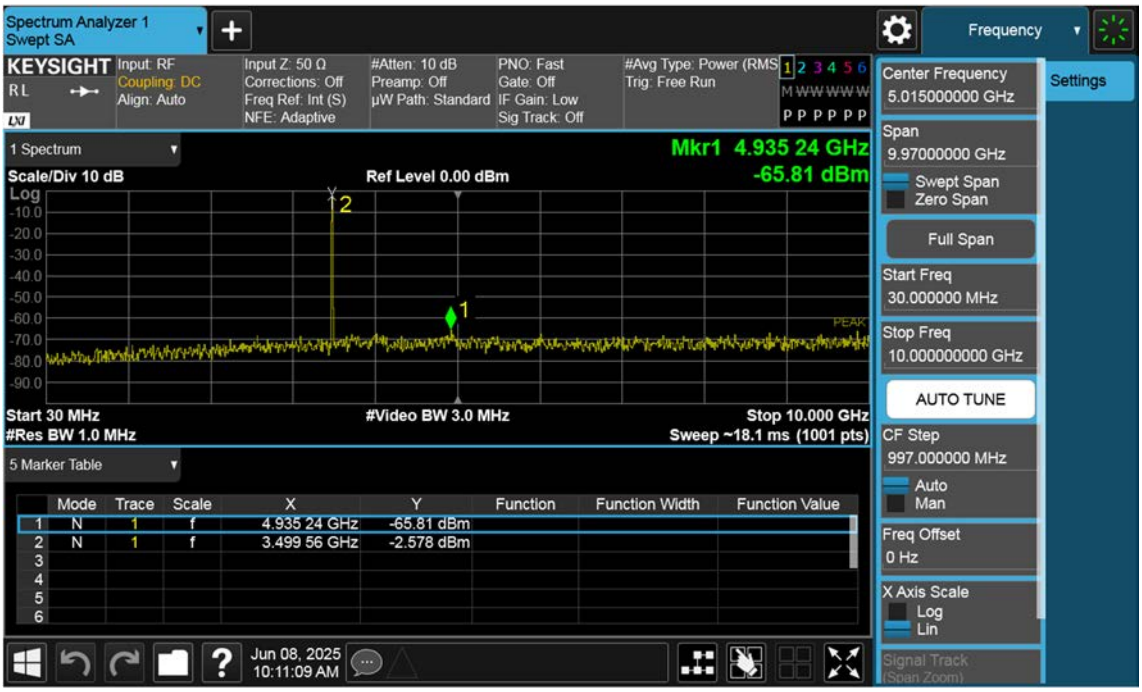
	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	4.057 88 GHz	-65.61 dBm			
2	N	1	f	3.549 41 GHz	-2.738 dBm			
3								
4								
5								
6								

LTE B42_10 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



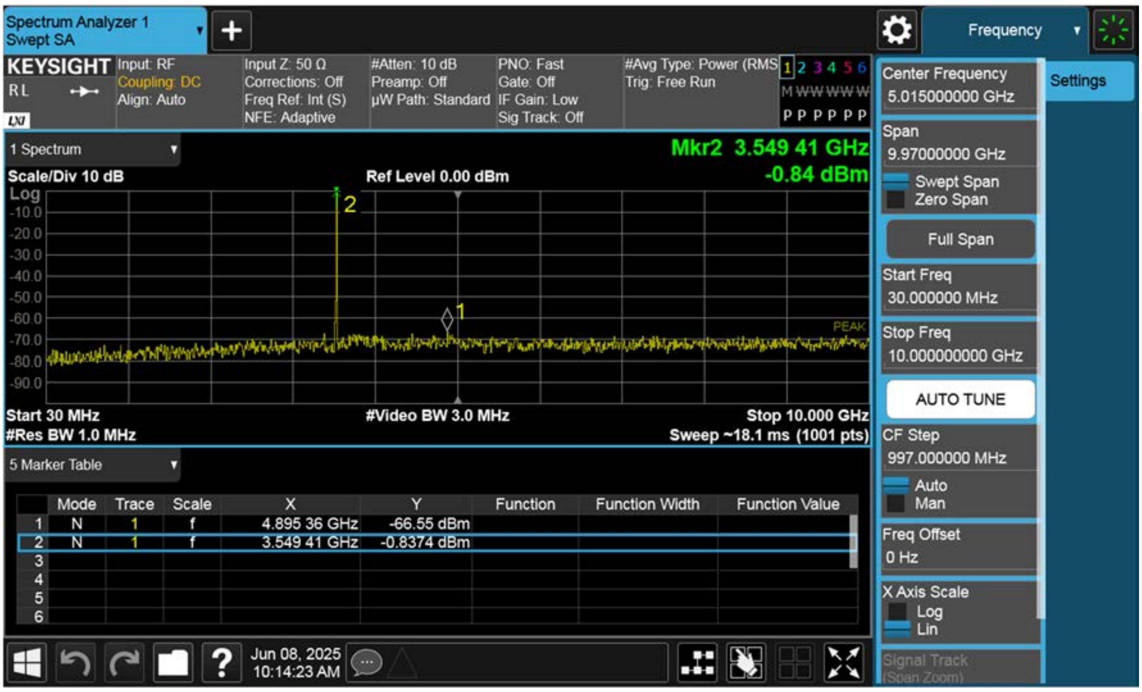
	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	4.855 48 GHz	-66.40 dBm			
2	N	1	f	3.449 71 GHz	-3.483 dBm			
3								
4								
5								
6								

LTE B42_10 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB

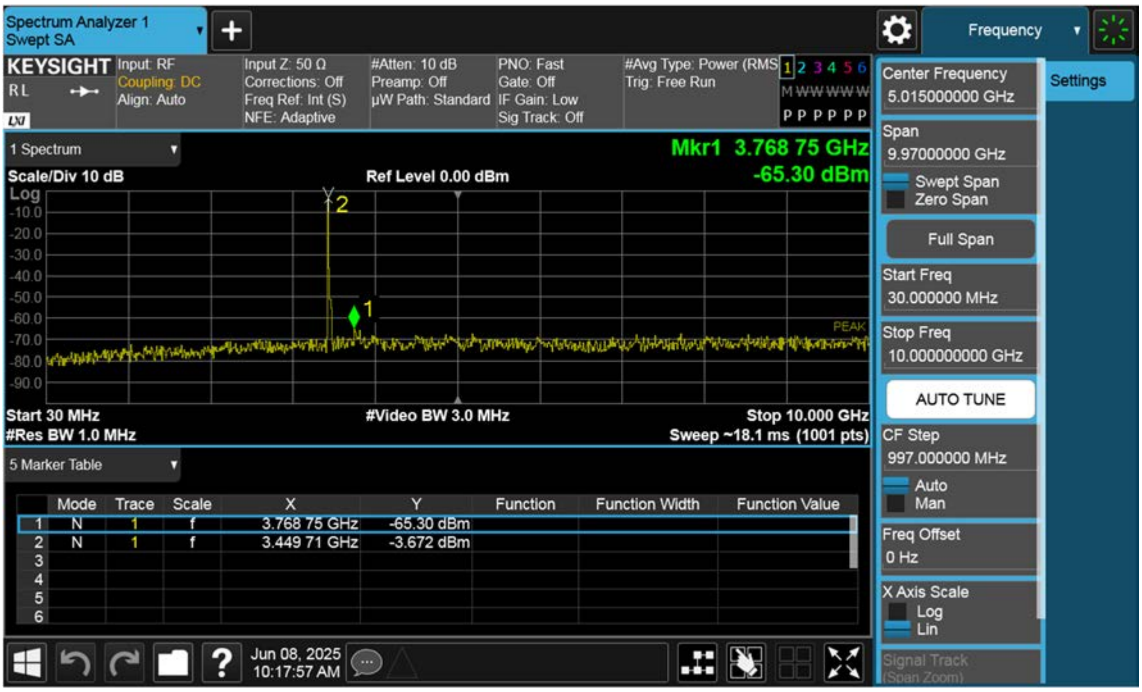


	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	4.935 24 GHz	-65.81 dBm			
2	N	1	f	3.499 56 GHz	-2.578 dBm			
3								
4								
5								
6								

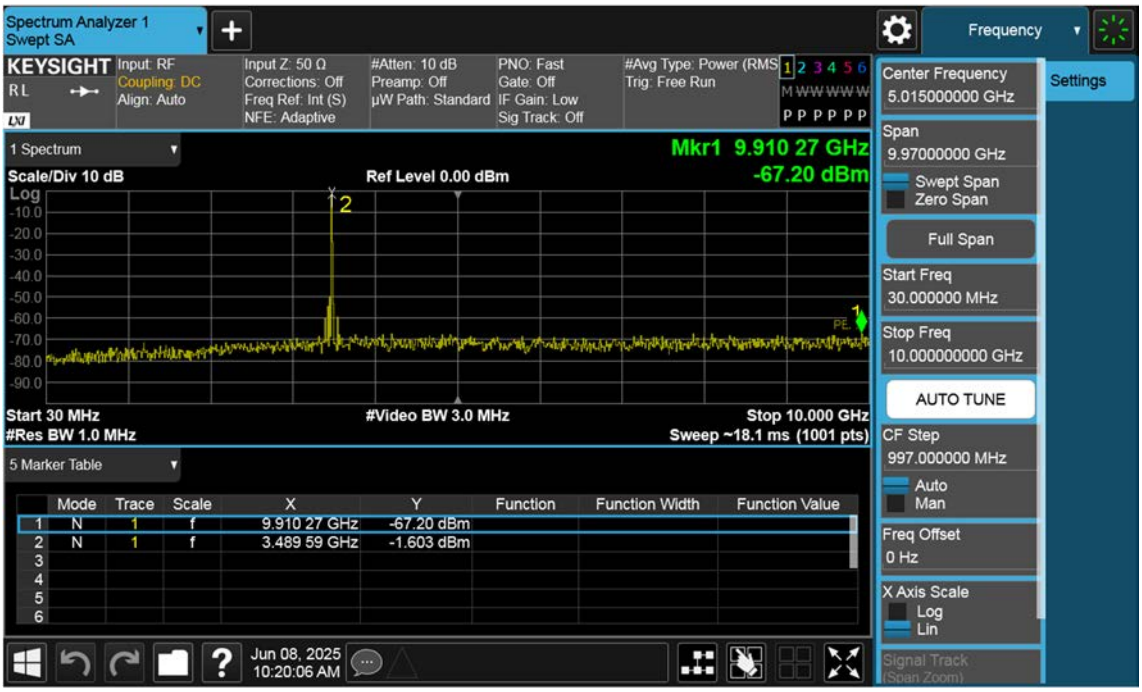
LTE B42_10 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



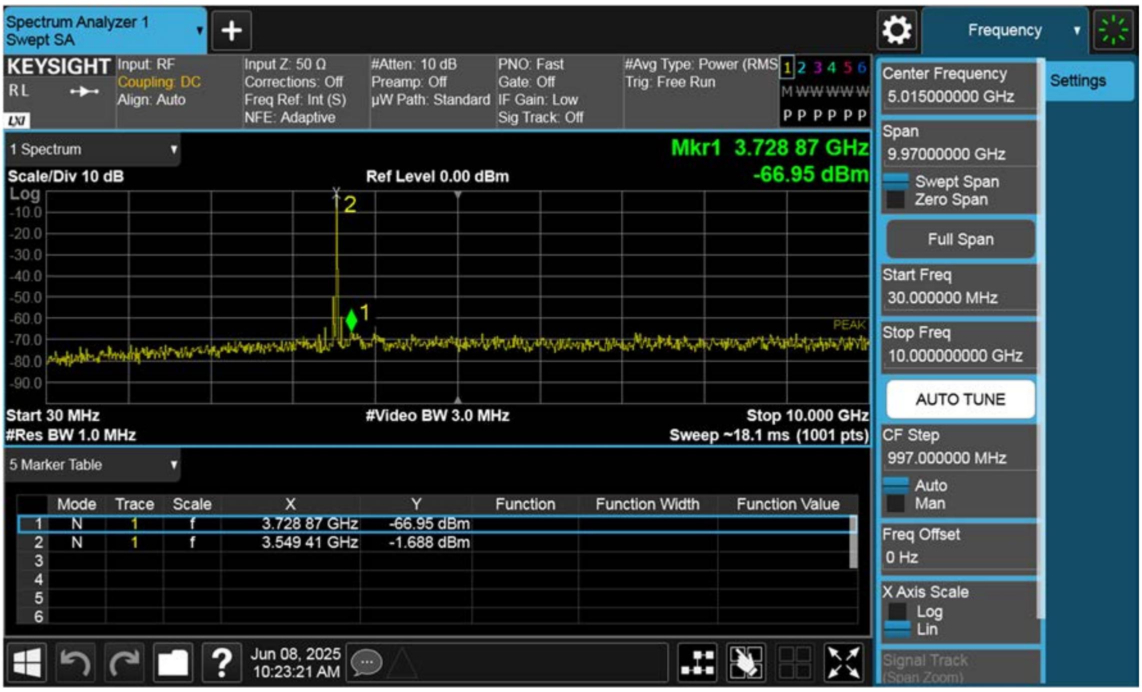
LTE B42_15 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB



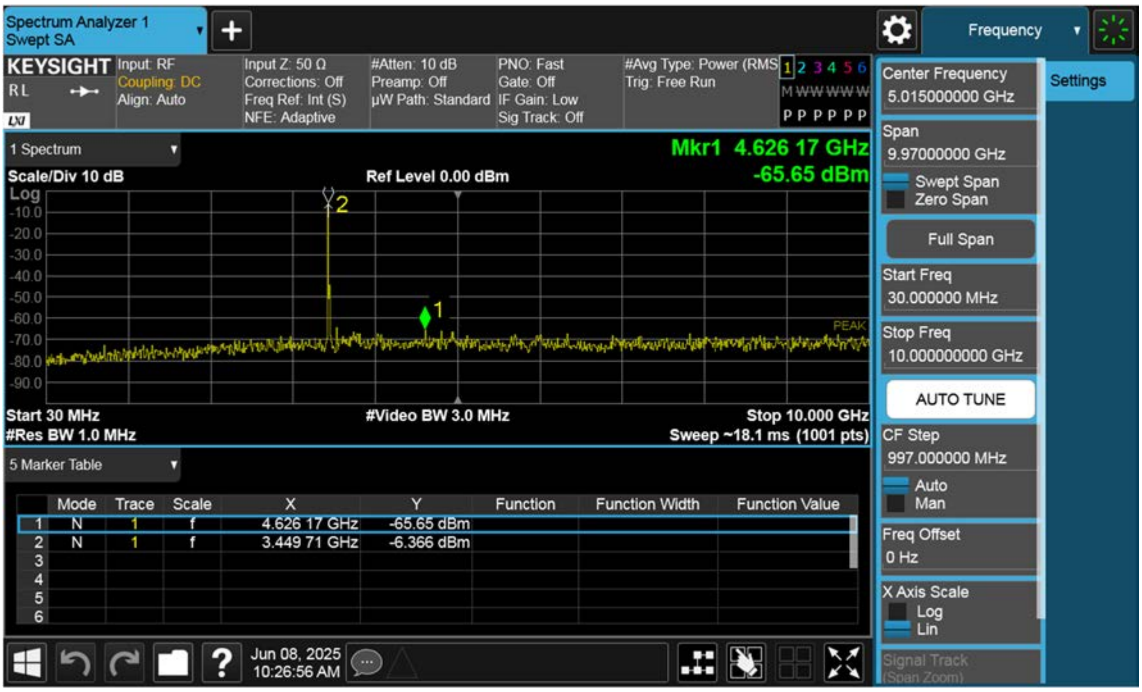
LTE B42_15 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



LTE B42_15 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB

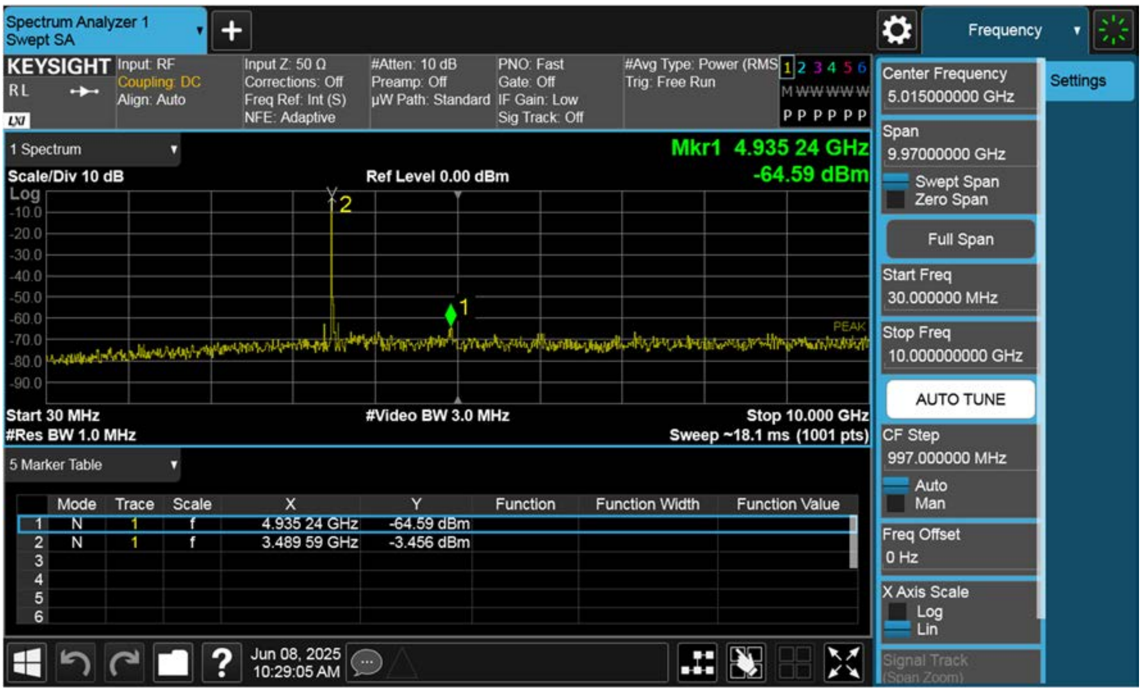


LTE B42_20 M_Conducted Spurious(30 M-10 G)_Low_QPSK_1RB

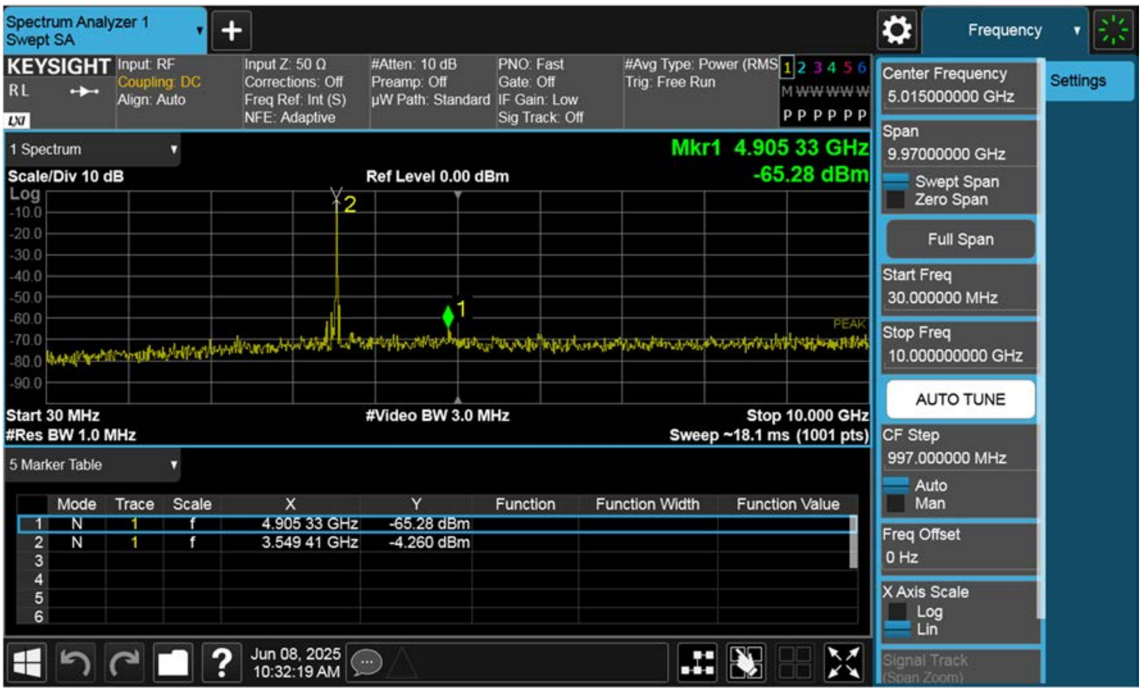


	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	4.626 17 GHz	-65.65 dBm			
2	N	1	f	3.449 71 GHz	-6.366 dBm			
3								
4								
5								
6								

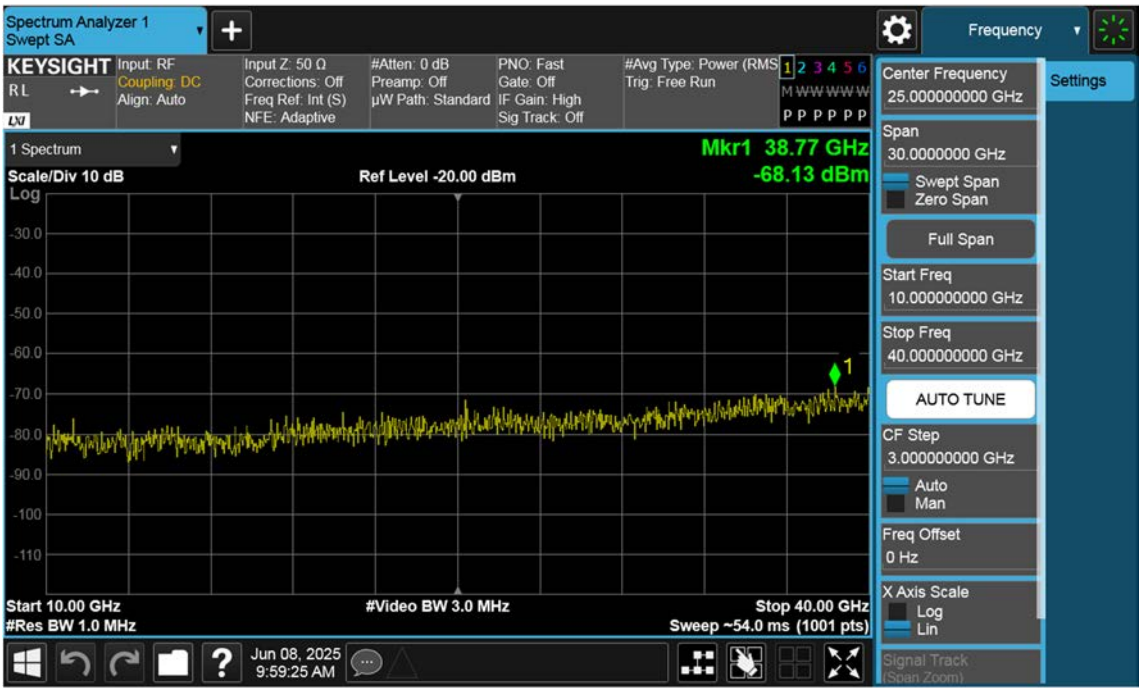
LTE B42_20 M_Conducted Spurious(30 M-10 G)_Mid_QPSK_1RB



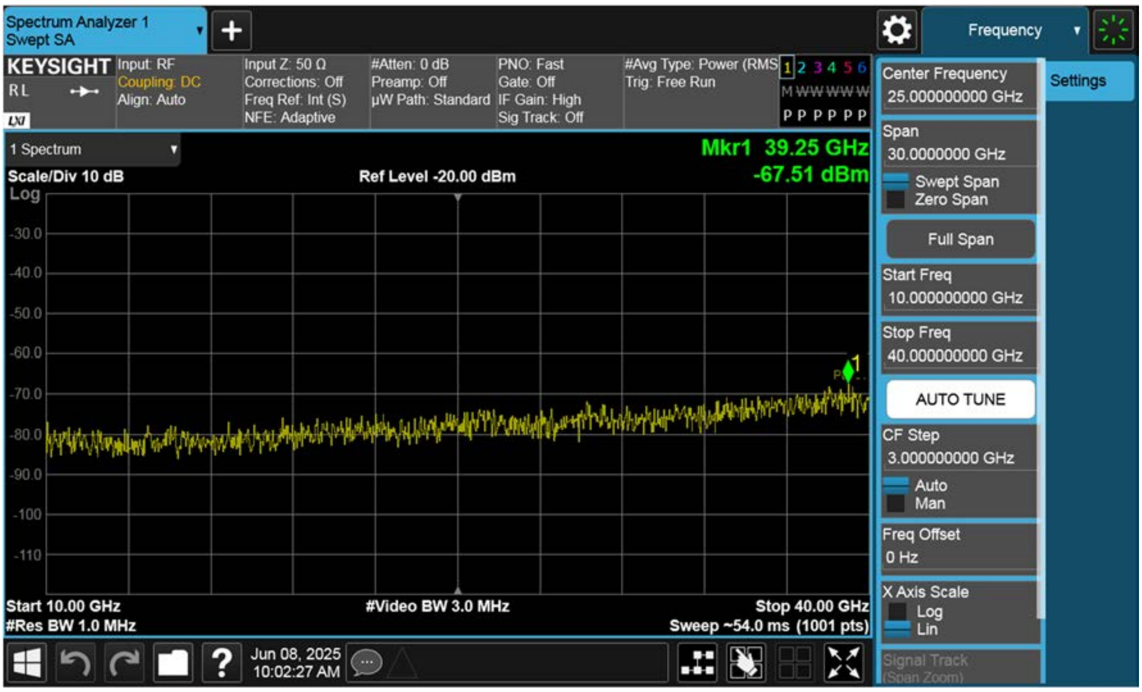
LTE B42_20 M_Conducted Spurious(30 M-10 G)_High_QPSK_1RB



LTE B42_5 M_Conducted Spurious(Above10 G)_Low_QPSK_1RB

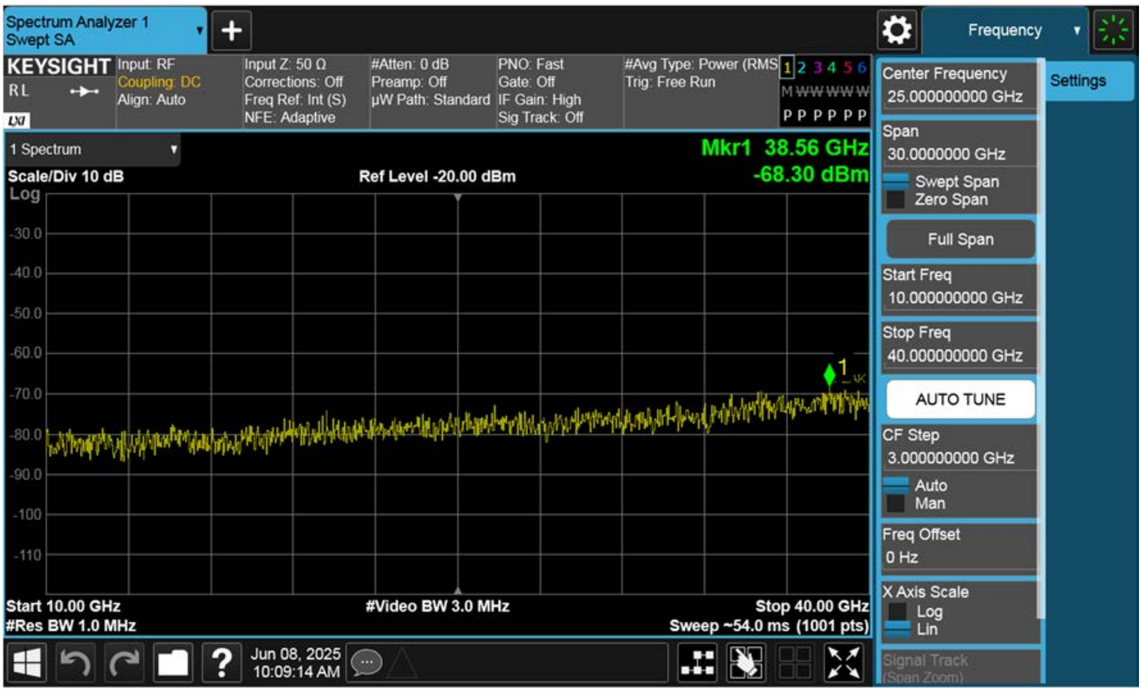


LTE B42_5 M_Conducted Spurious(Above10 G)_Mid_QPSK_1RB

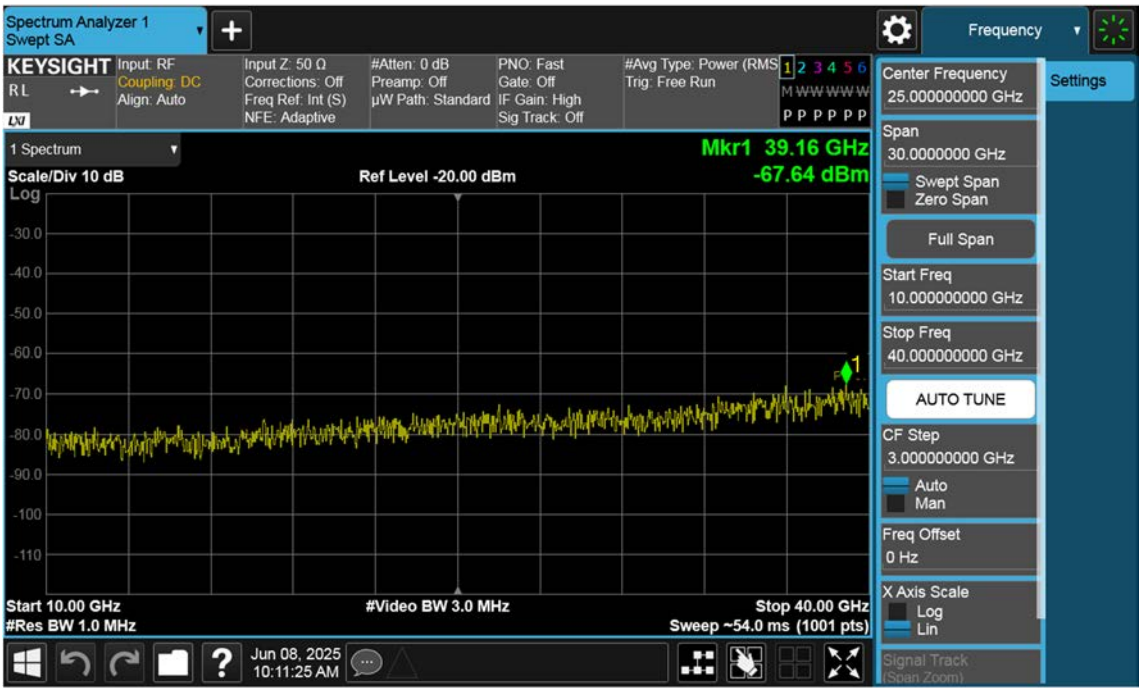


LTE B42_5 M_Conducted Spurious(Above10 G)_High_QPSK_1RB

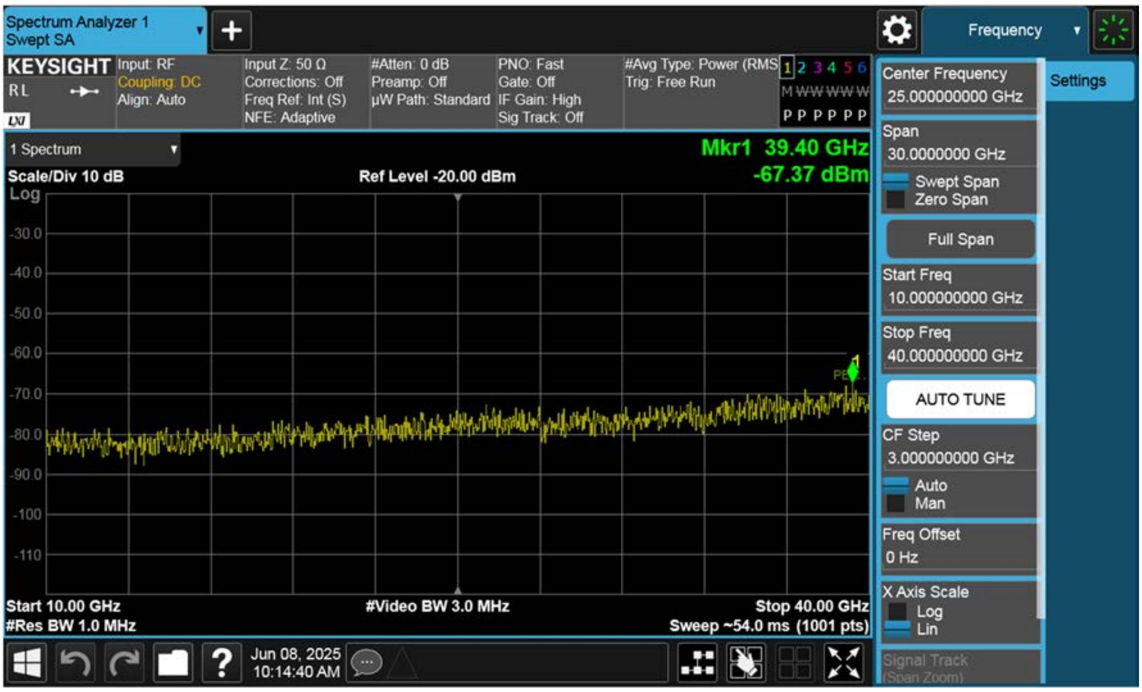
LTE B42_10 M_Conducted Spurious(Above10 G)_Low_QPSK_1RB



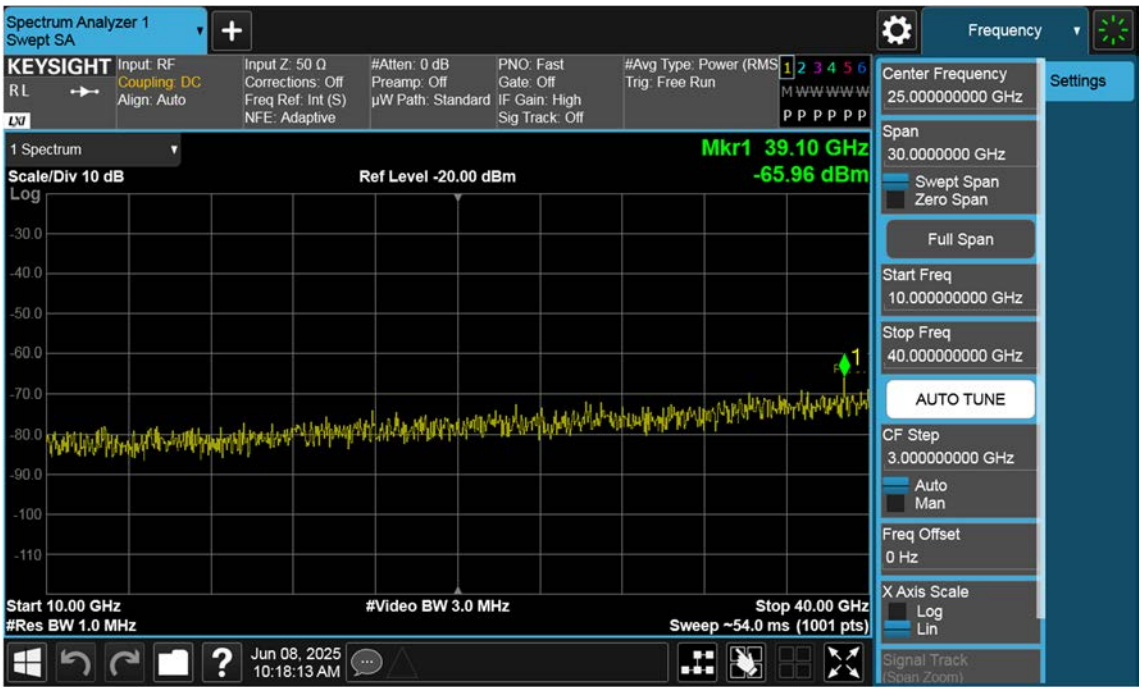
LTE B42_10 M_Conducted Spurious(Above10 G)_Mid_QPSK_1RB



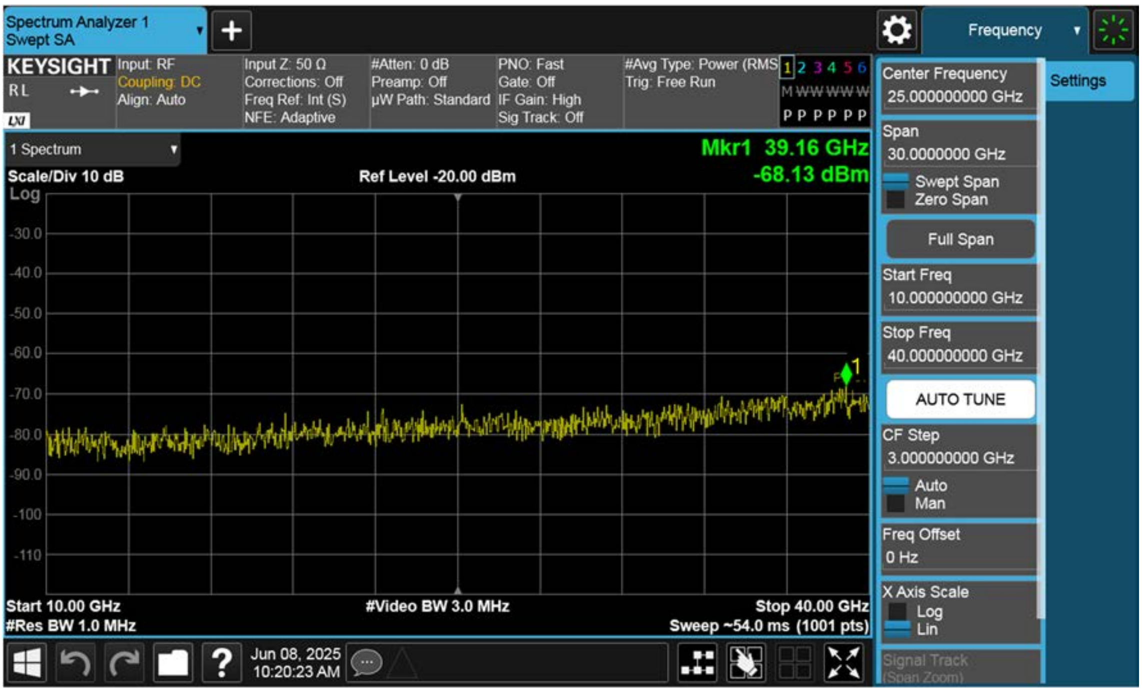
LTE B42_10 M_Conducted Spurious(Above10 G)_High_QPSK_1RB



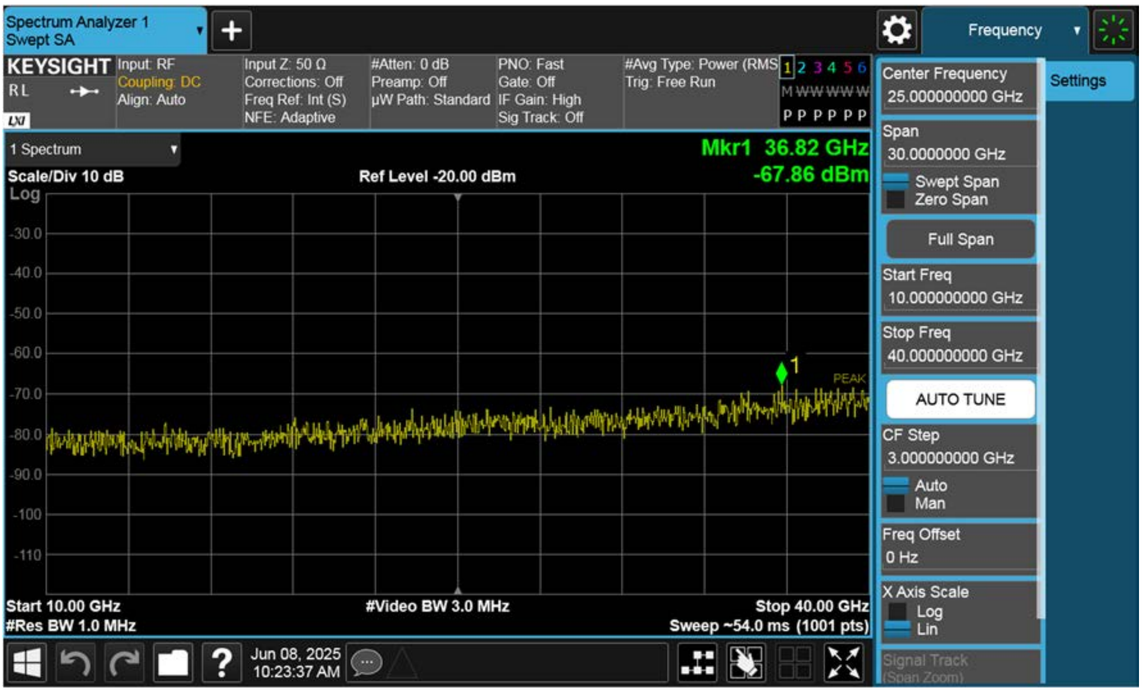
LTE B42_15 M_Conducted Spurious(Above10 G)_Low_QPSK_1RB



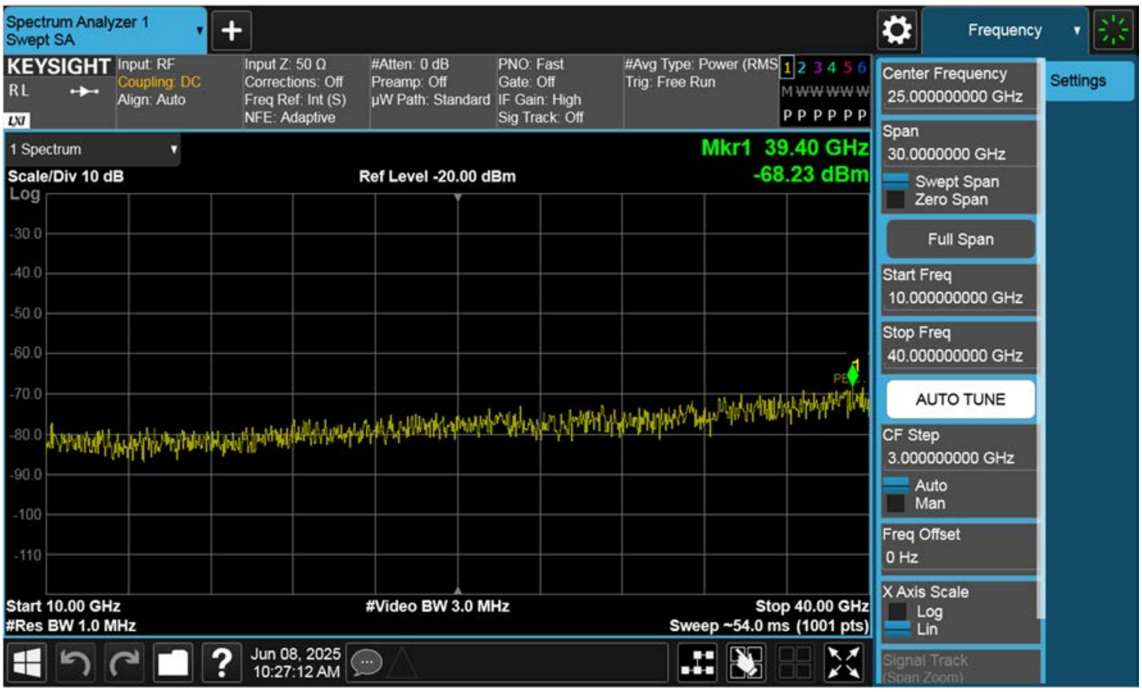
LTE B42_15 M_Conducted Spurious(Above10 G)_Mid_QPSK_1RB



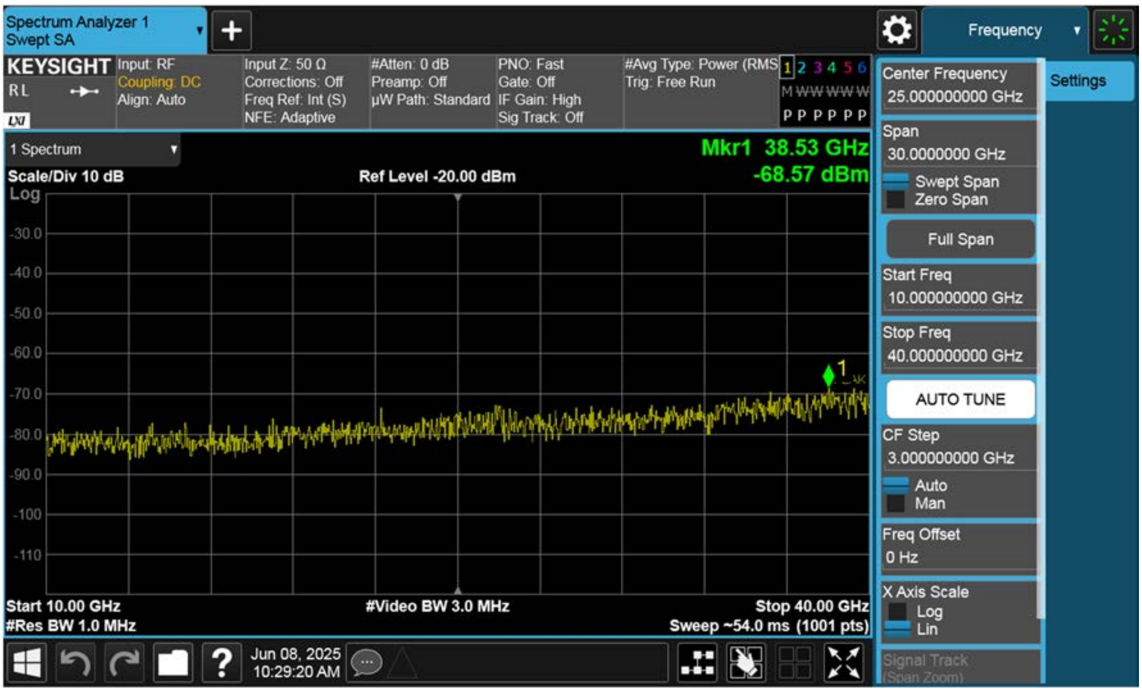
LTE B42_15 M_Conducted Spurious(Above10 G)_High_QPSK_1RB



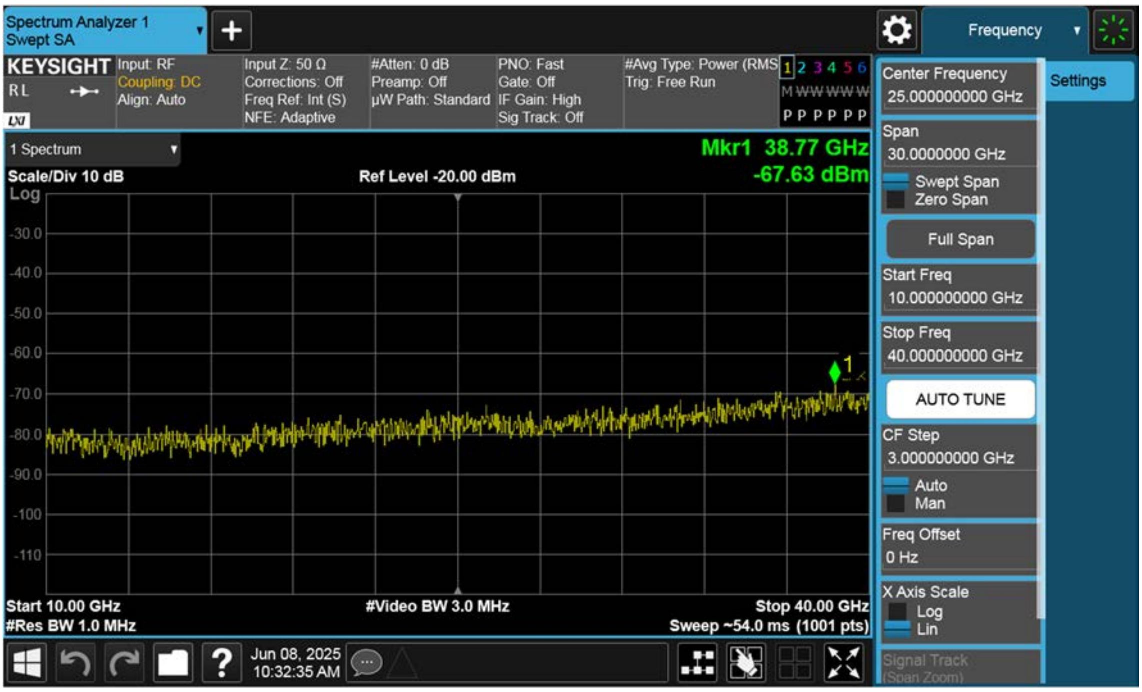
LTE B42_20 M_Conducted Spurious(Above10 G)_Low_QPSK_1RB



LTE B42_20 M_Conducted Spurious(Above10 G)_Mid_QPSK_1RB



LTE B42_20 M_Conducted Spurious(Above10 G)_High_QPSK_1RB



LTE B42_5 M_Band Edge_Low_QPSK_Full RB (1)

LTE B42_5 M_Band Edge_Low_QPSK_1RB (1)

LTE B42_5 M_Band Edge_Low_QPSK_Full RB (2)

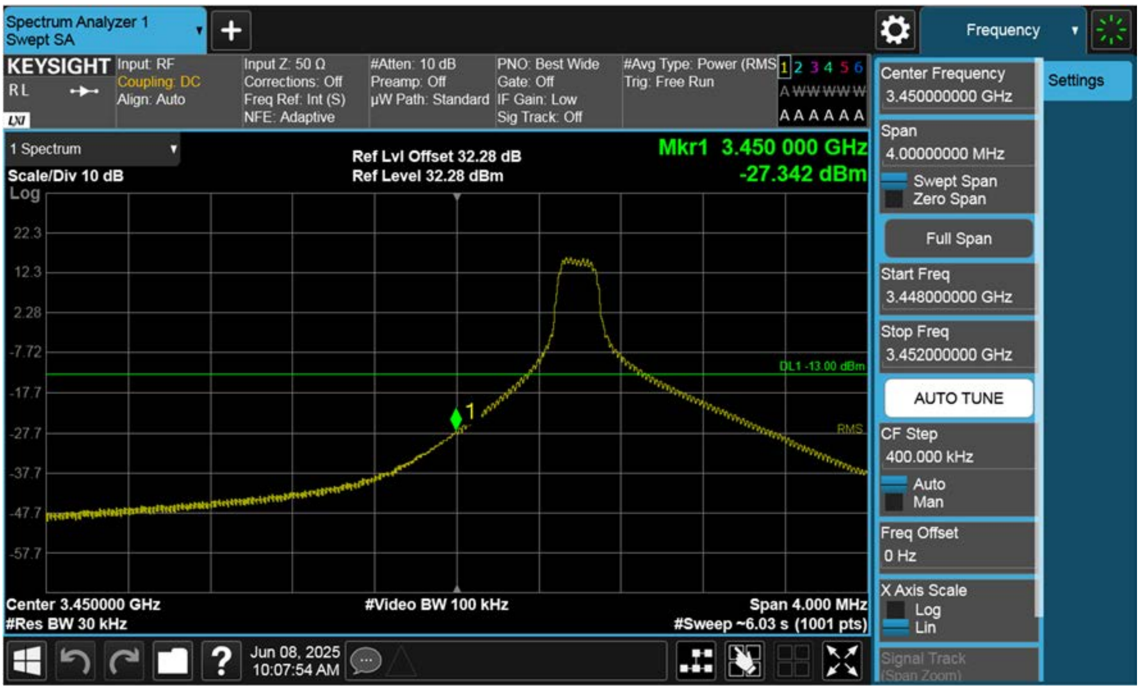
LTE B42_5 M_Band Edge_Low_QPSK_1RB (2)

LTE B42_5 M_Band Edge_Low_QPSK_Full RB (3)

LTE B42_5 M_Band Edge_Low_QPSK_1RB (3)

LTE B42_10 M_Band Edge_Low_QPSK_Full RB (1)

LTE B42_10 M_Band Edge_Low_QPSK_1RB (1)



LTE B42_10 M_Band Edge_Low_QPSK_Full RB (2)

LTE B42_10 M_Band Edge_Low_QPSK_1RB (2)