

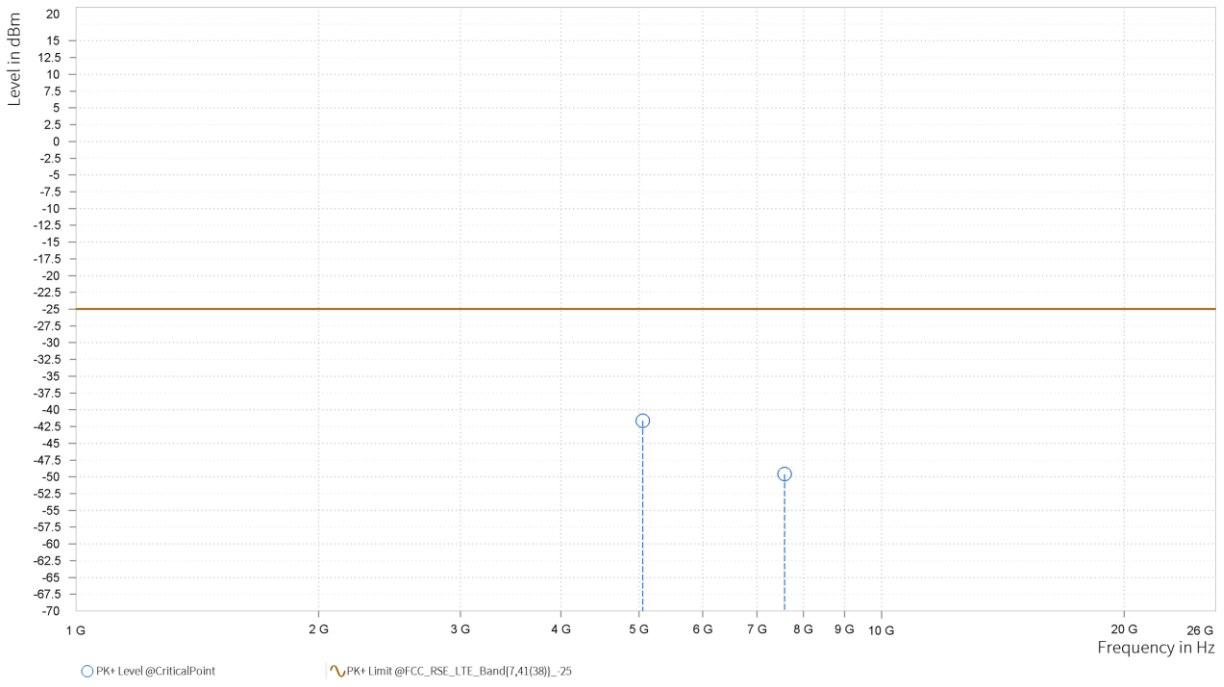


Test Report No.: PSU-QSU2306120115RF05

MODE	TX channel 21100	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,052.000	-41.62	-25.0	16.62	31.27	V	287.6	1.0
5	7,578.000	-49.6	-25.0	24.6	33.48	V	1.0	1.0





**BUREAU
VERITAS**

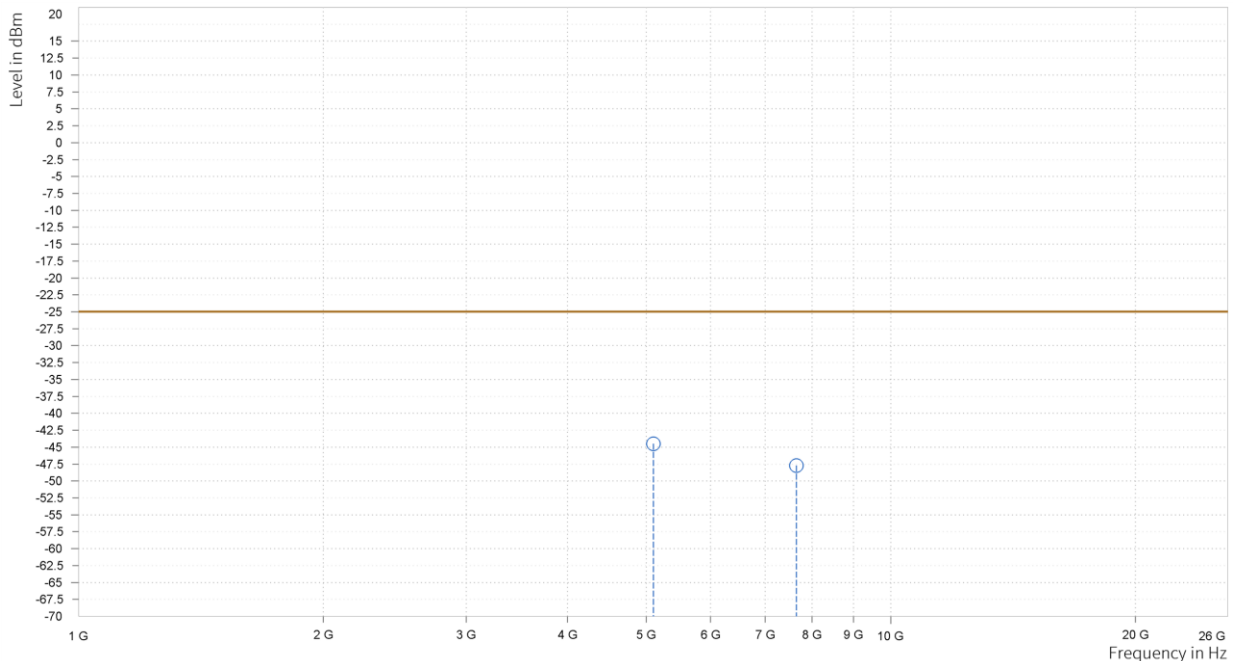
Test Report No.: PSU-QSU2306120115RF05

CH: 21350

MODE	TX channel 21350	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,102.000	-44.5	-25.0	19.5	30.53	H	359	2.0
5	7,653.000	-47.7	-25.0	22.7	34.33	H	1	1.0



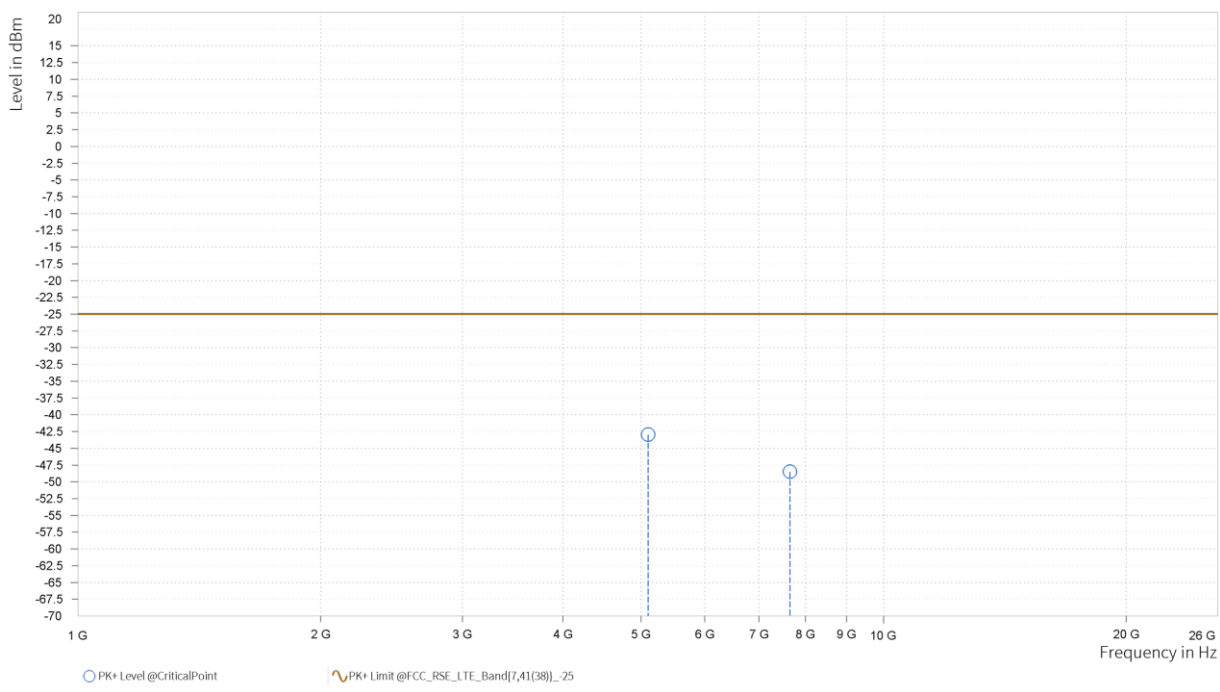


Test Report No.: PSU-QSU2306120115RF05

MODE	TX channel 21350	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,102.000	-42.97	-25.0	17.97	30.36	V	1	1.0
5	7,653.000	-48.49	-25.0	23.49	34.27	V	1	2.0





**BUREAU
VERITAS**

Test Report No.: PSU-QSU2306120115RF05

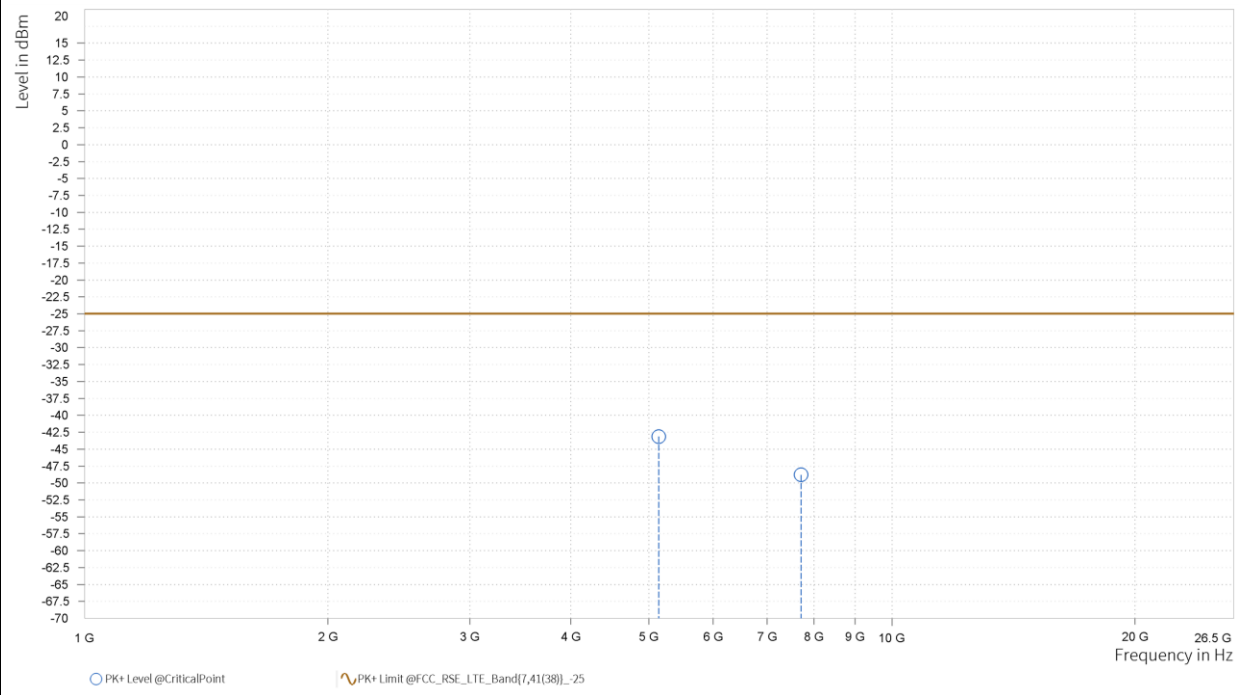
LTE Band 38

CHANNEL BANDWIDTH: 5MHz / QPSK
CH: 37775

MODE	TX channel 37775	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,140.500	-43.15	-25.0	18.15	30.18	H	110.8	2.0
5	7,710.750	-48.79	-25.0	23.79	34.19	H	359.1	1.0



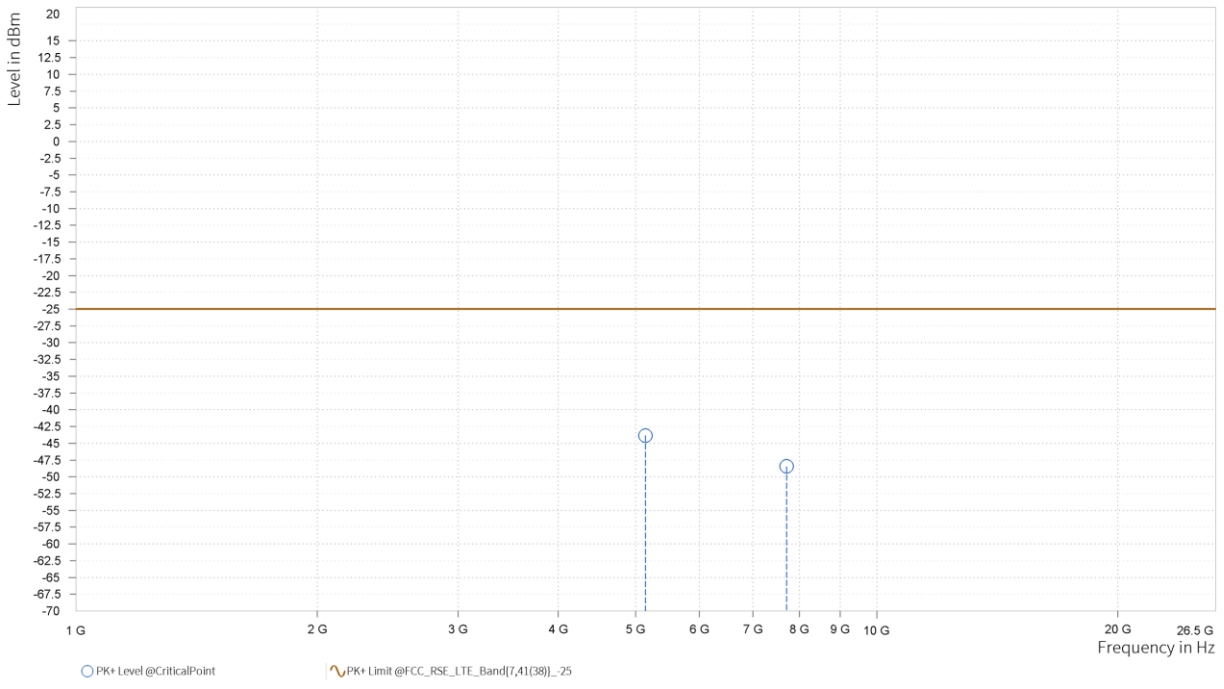


Test Report No.: PSU-QSU2306120115RF05

MODE	TX channel 37775	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,140.500	-43.83	-25.0	18.83	30.06	V	359.1	1.0
5	7,710.750	-48.43	-25.0	23.43	34.17	V	347.2	1.0





**BUREAU
VERITAS**

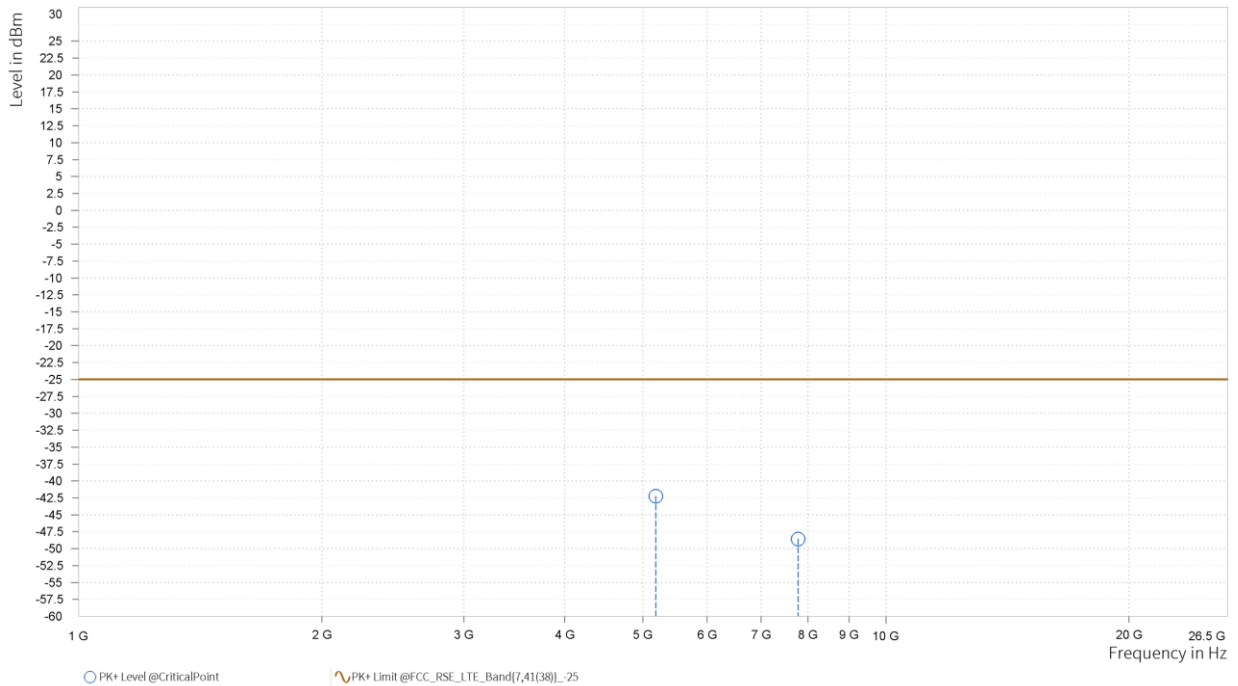
Test Report No.: PSU-QSU2306120115RF05

CH: 38000

MODE	TX channel 38000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,185.500	-42.24	-25.0	17.24	30.0	H	1	1.0
5	7,778.250	-48.58	-25.0	23.58	34.0	H	1	1.0



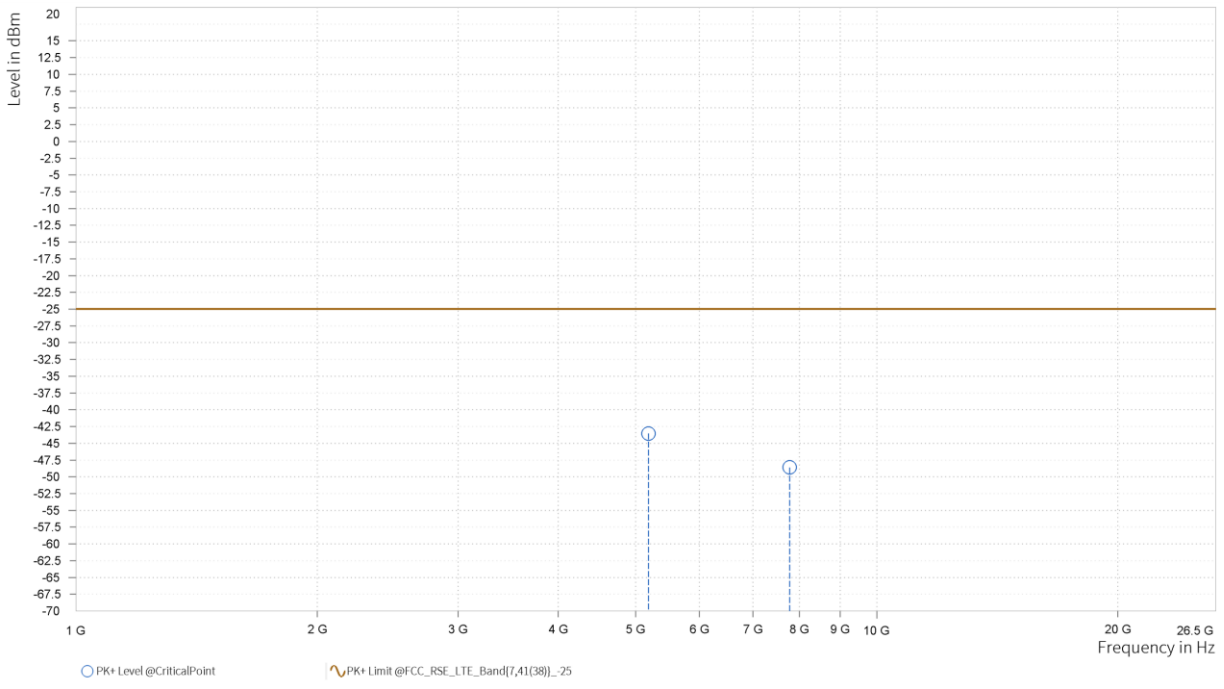


Test Report No.: PSU-QSU2306120115RF05

MODE	TX channel 38000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,185.500	-43.55	-25.0	18.55	29.95	V	358.9	1.0
5	7,778.250	-48.6	-25.0	23.6	34.05	V	358.9	1.0





**BUREAU
VERITAS**

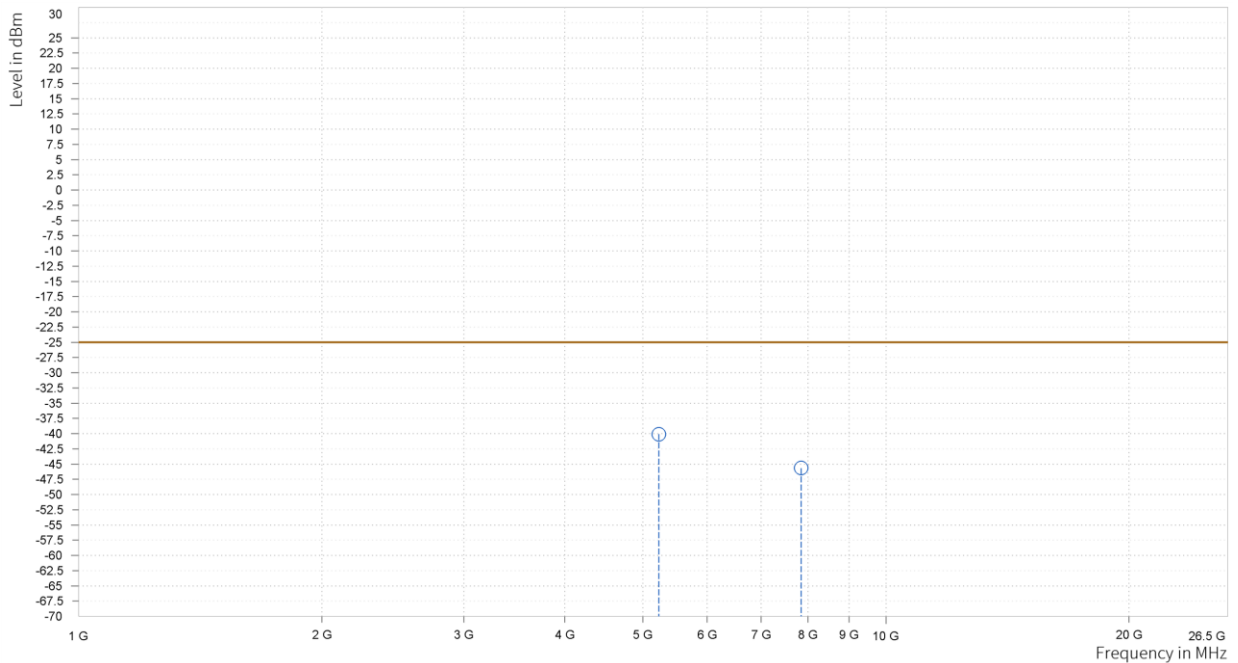
Test Report No.: PSU-QSU2306120115RF05

CH: 38225

MODE	TX channel 38225	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,230.500	-40.11	-25.0	15.11	30.25	H	359.0	1.0
5	7,845.750	-45.67	-25.0	20.67	36.5	H	0.9	2.0



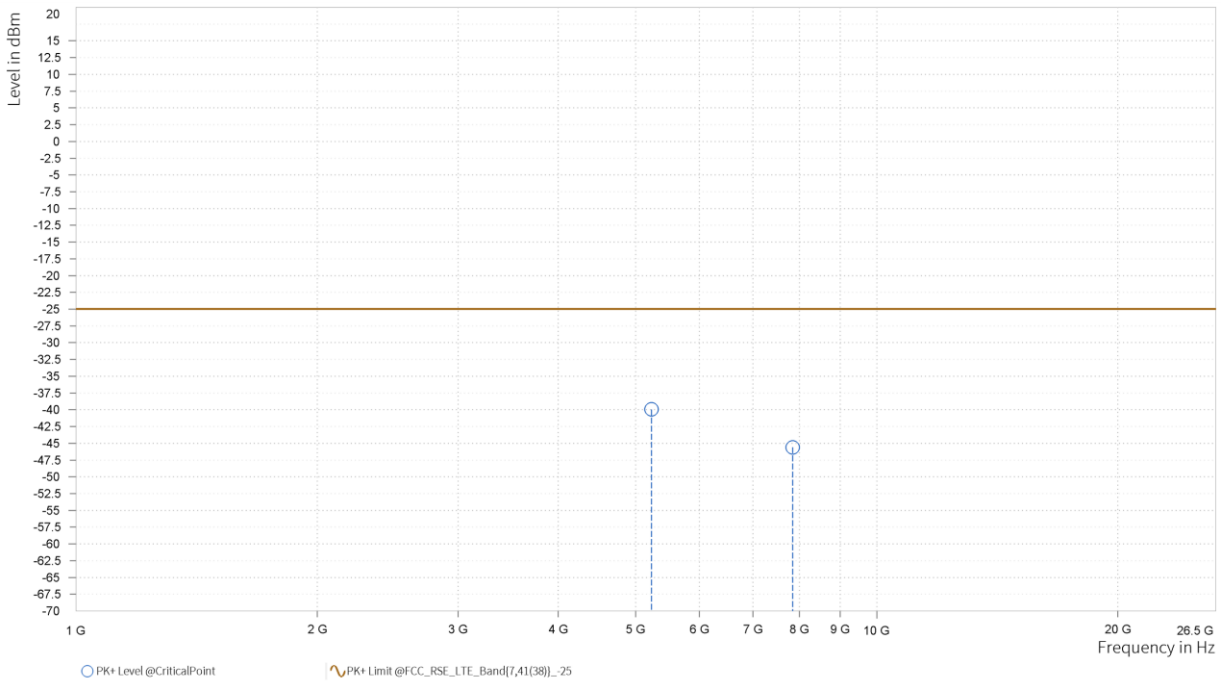


Test Report No.: PSU-QSU2306120115RF05

MODE	TX channel 38225	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,230.500	-39.94	-25.0	14.94	30.23	V	359	1.0
5	7,845.750	-45.6	-25.0	20.6	36.61	V	1	1.0





**BUREAU
VERITAS**

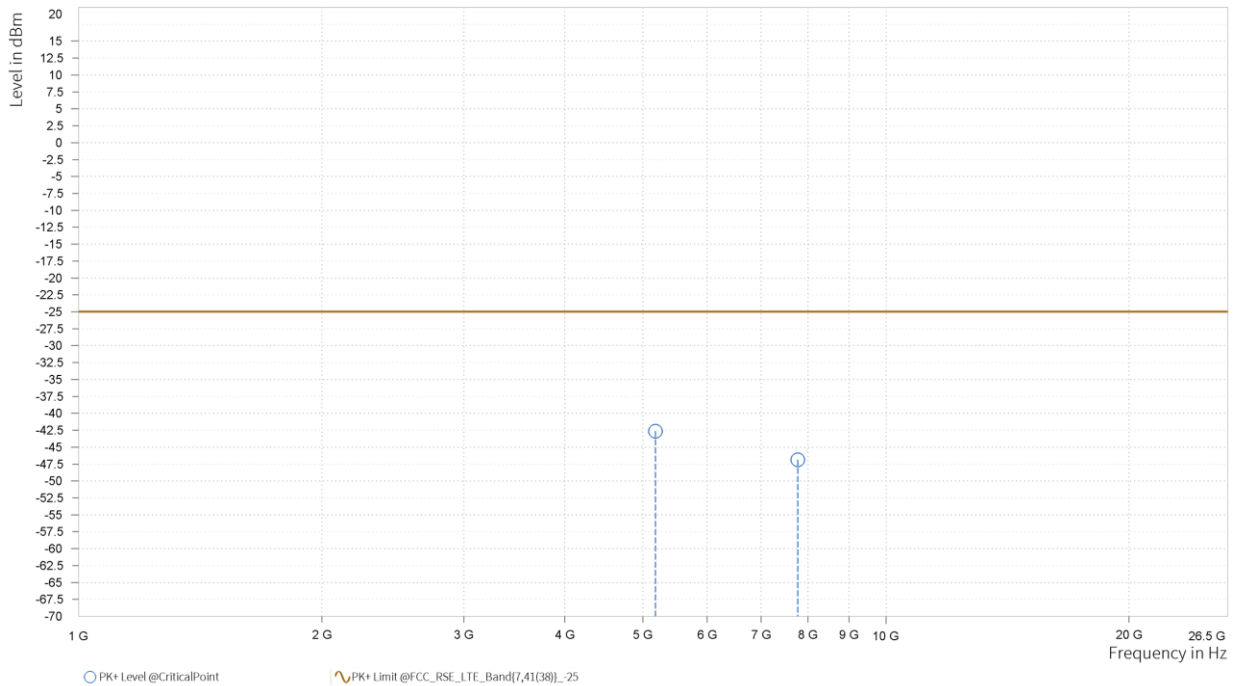
Test Report No.: PSU-QSU2306120115RF05

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 38000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,181.000	-42.64	-25.0	17.64	30.12	H	1	1.0
5	7,771.500	-46.86	-25.0	21.86	34.65	H	359	2.0



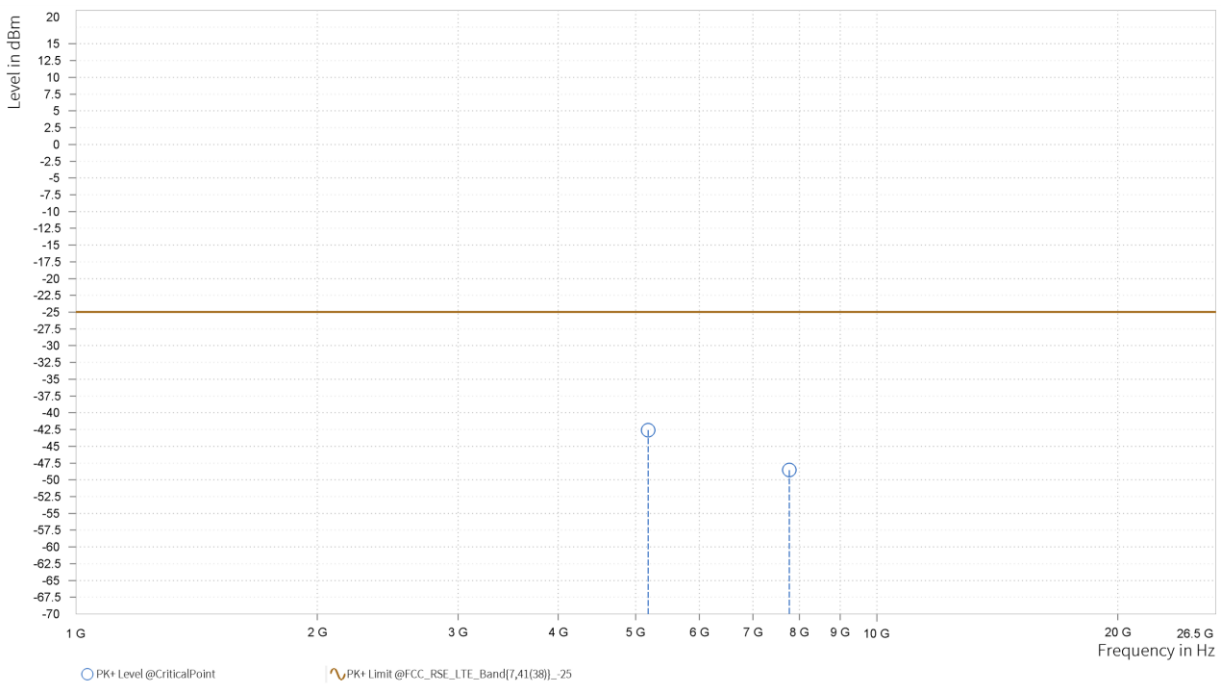


Test Report No.: PSU-QSU2306120115RF05

MODE	TX channel 38000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,181.000	-42.58	-25.0	17.58	30.06	V	1	1.0
5	7,771.500	-48.54	-25.0	23.54	34.69	V	1	1.0





**BUREAU
VERITAS**

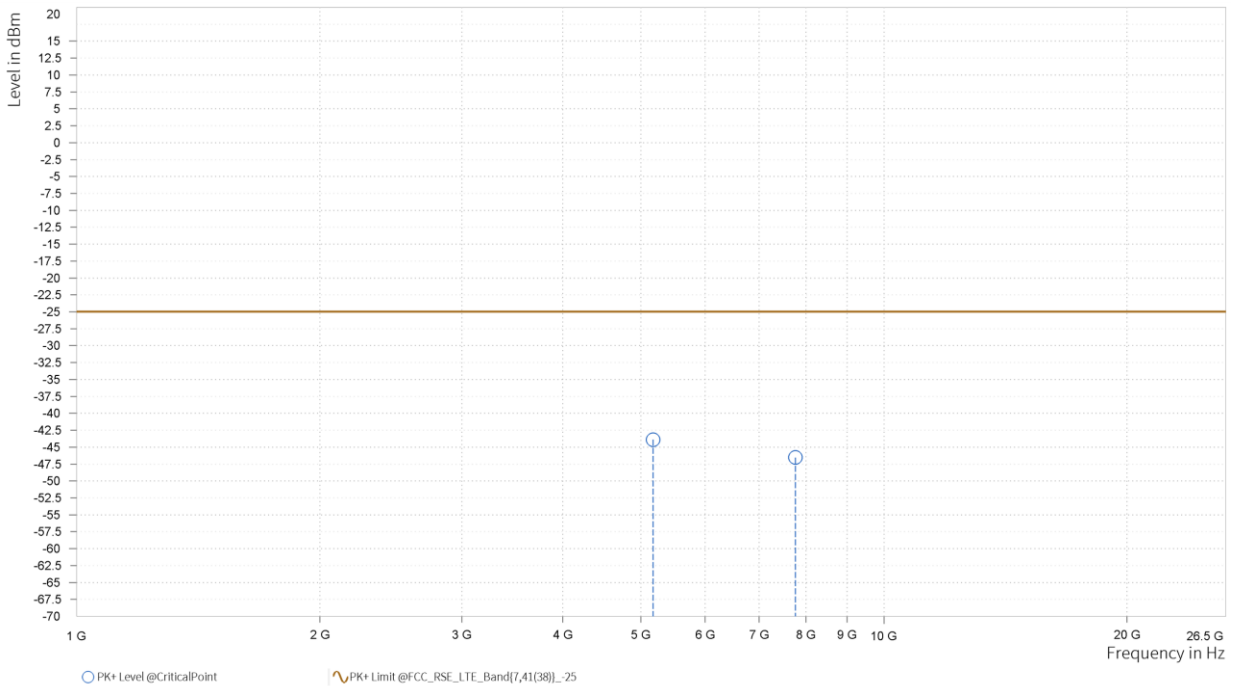
Test Report No.: PSU-QSU2306120115RF05

CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 38000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,176.500	-43.88	-25.0	18.88	30.26	H	1	1.0
5	7,764.750	-46.54	-25.0	21.54	35.67	H	359	2.0



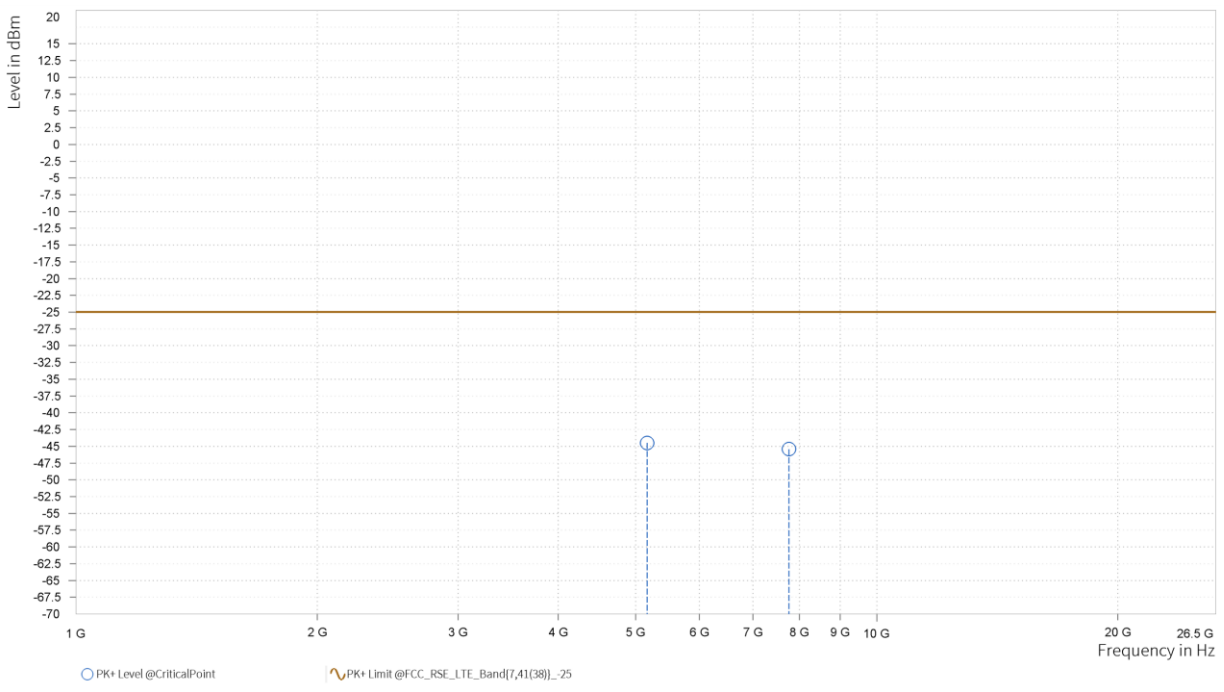


Test Report No.: PSU-QSU2306120115RF05

MODE	TX channel 38000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,1 .500	-44.5	-25.0	19.5	30.49	V	1.0	1.0
5	7,764.750	-45.43	-25.0	20.43	35.71	V	28.2	2.0





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VERITAS**

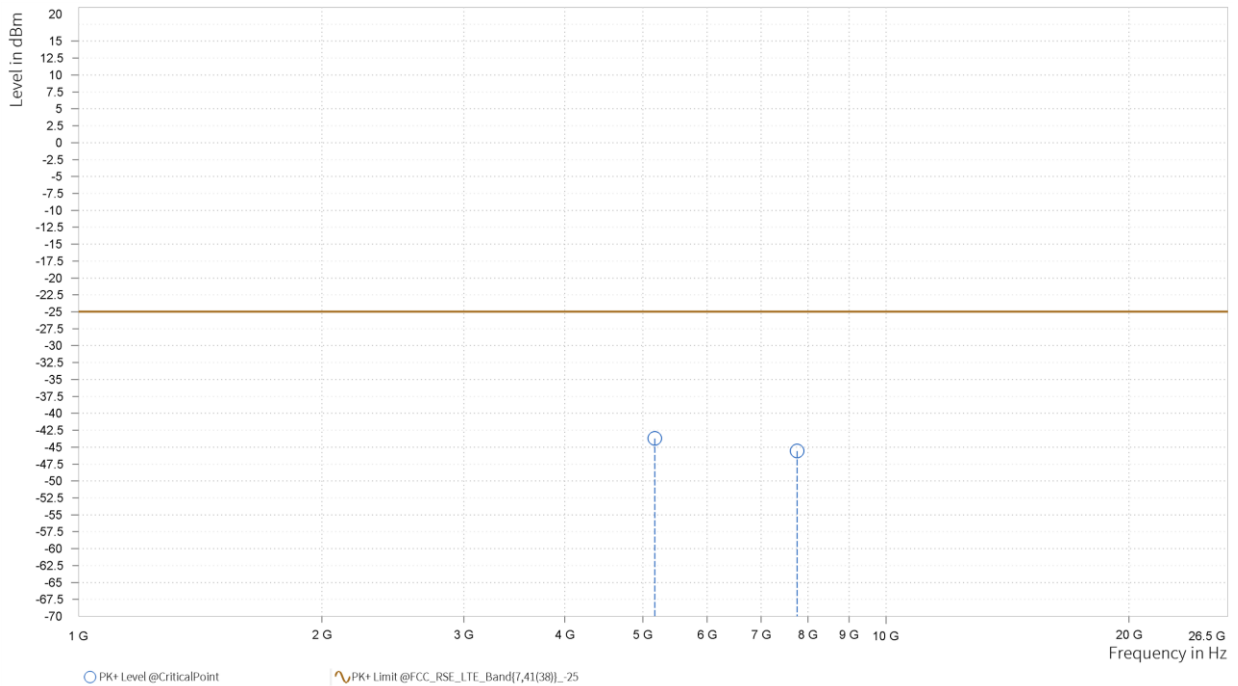
Test Report No.: PSU-QSU2306120115RF05

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 38000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,172.000	-43.72	-25.0	18.72	30.32	H	1.0	1.0
5	7,758.000	-45.58	-25.0	20.58	36.21	H	359.1	1.0



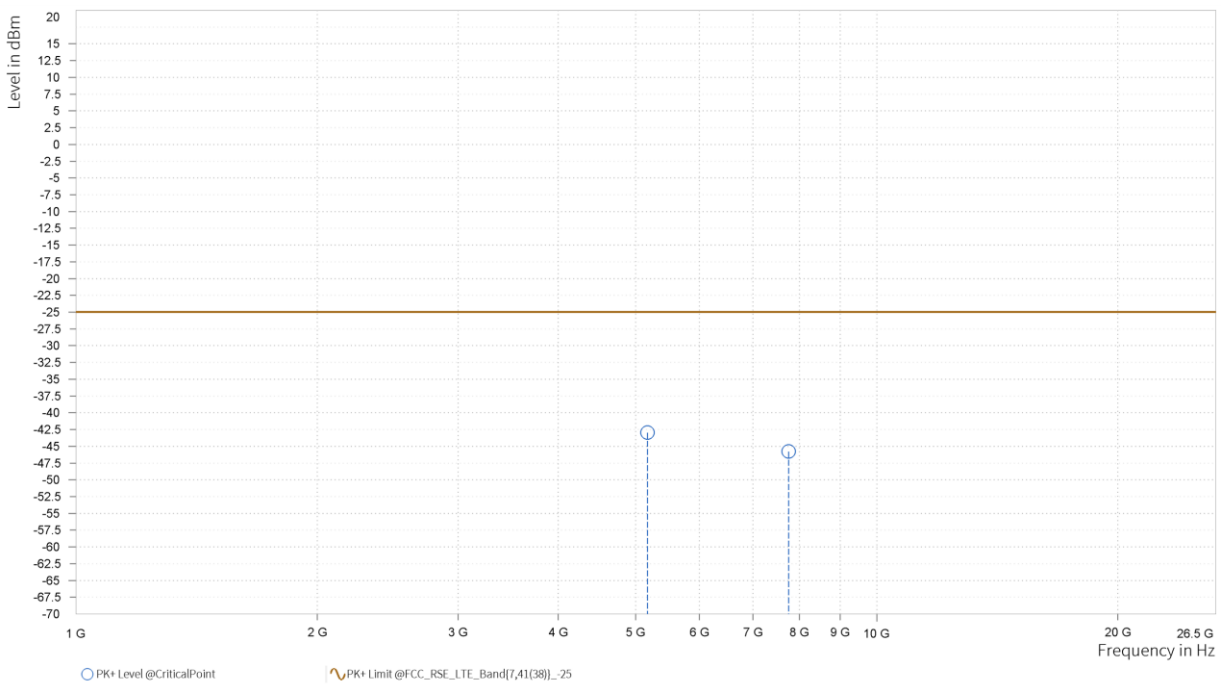


Test Report No.: PSU-QSU2306120115RF05

MODE	TX channel 38000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,172.000	-42.97	-25.0	17.97	30.39		1	1.00
5	7,758.000	-45.77	-25.0	20.77	36.18	V	359	1.00 V





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VERITAS**

Test Report No.: PSU-QSU2306120115RF05

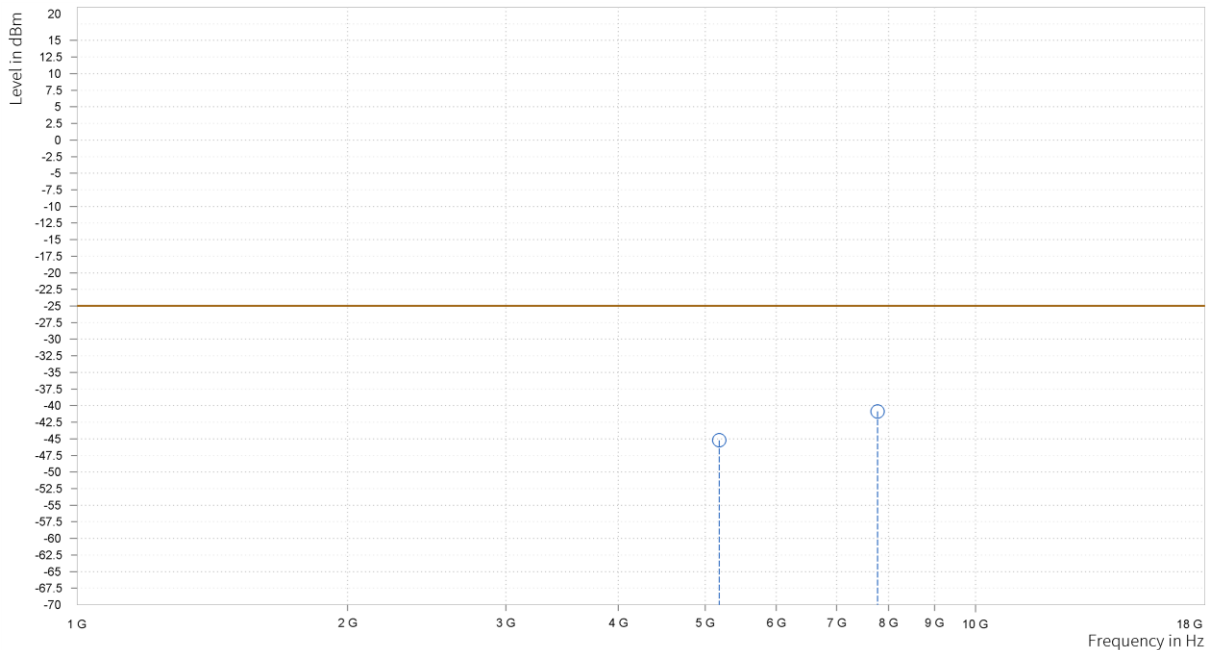
LTE BAND 41

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 40640	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,185.500	-45.24	-25.0	20.24	30.0	H	359.1	1.0
4	7,778.250	-40.88	-25.0	15.88	35.12	H	359.1	1.0



○ PK+ Level @CriticalPoint

— PK+ Limit @FCC_RSE_LTE_Band(7,41(38))_25

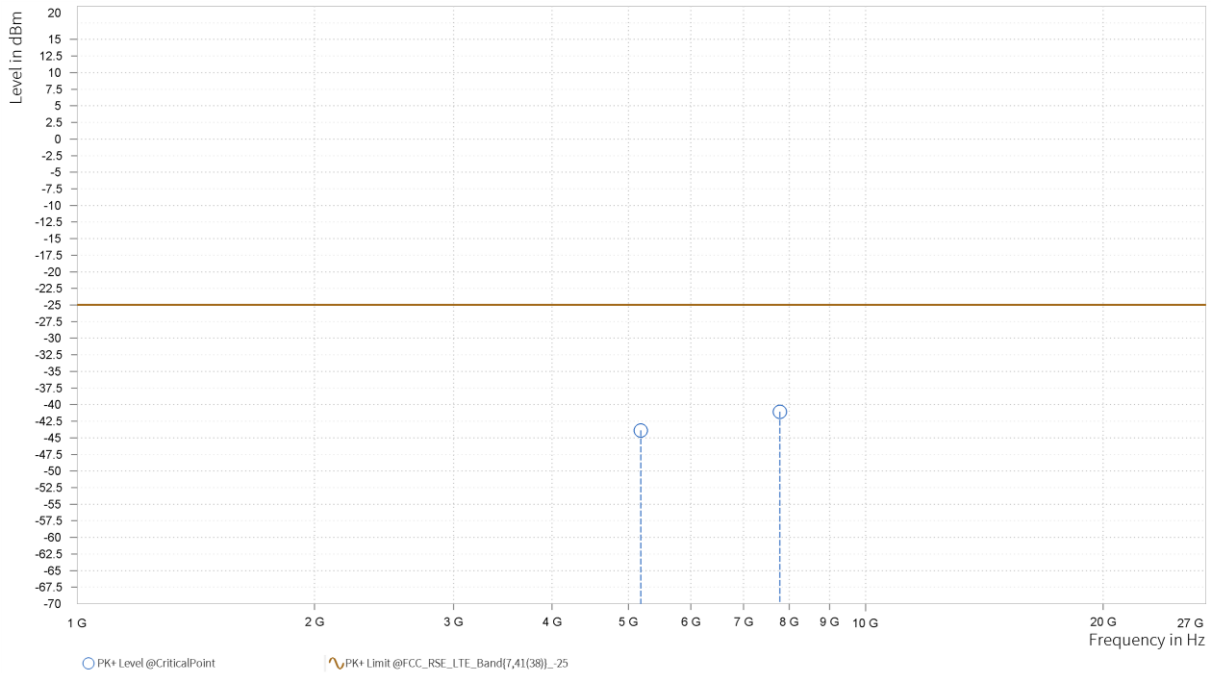


Test Report No.: PSU-QSU2306120115RF05

MODE	TX channel 40640	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,185.500	-43.89	-25.0	18.89	29.95	V	359	2.0
4	7,778.250	-41.09	-25.0	16.09	35.16	V	253	1.0





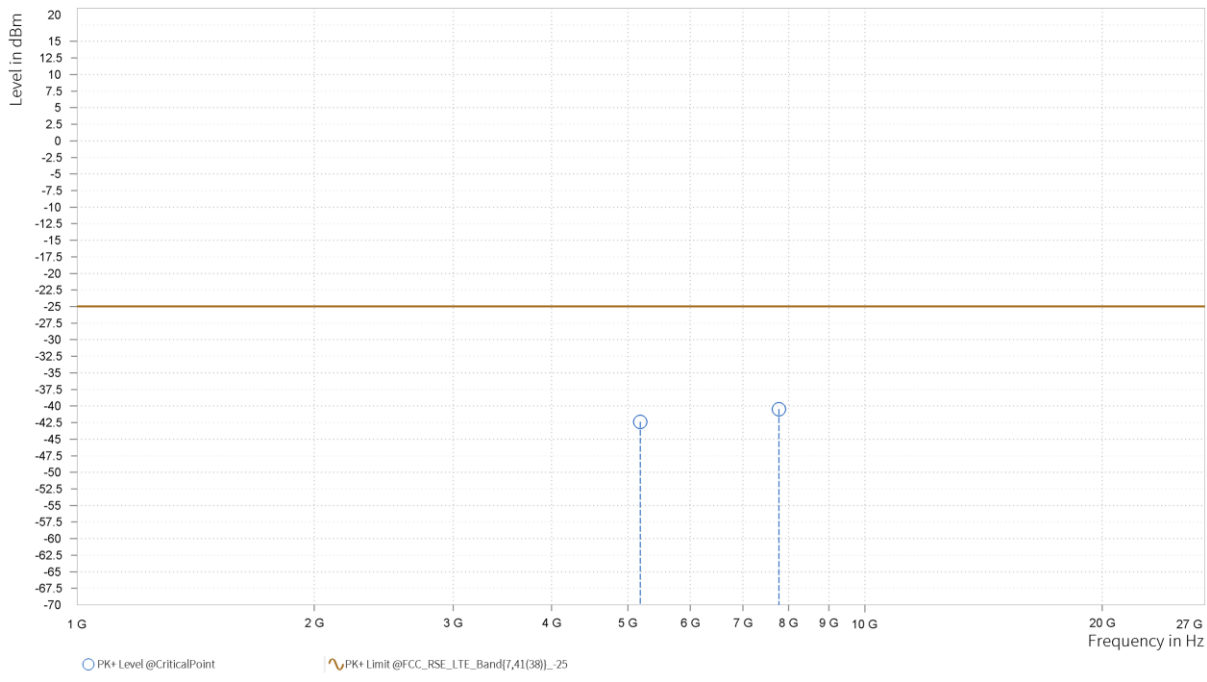
Test Report No.: PSU-QSU2306120115RF05

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 40640	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,181.000	-42.38	-25.0	17.38	30.12	H	0.9	2.0
4	7,771.500	-40.47	-25.0	15.47	35.38	H	0.9	2.0



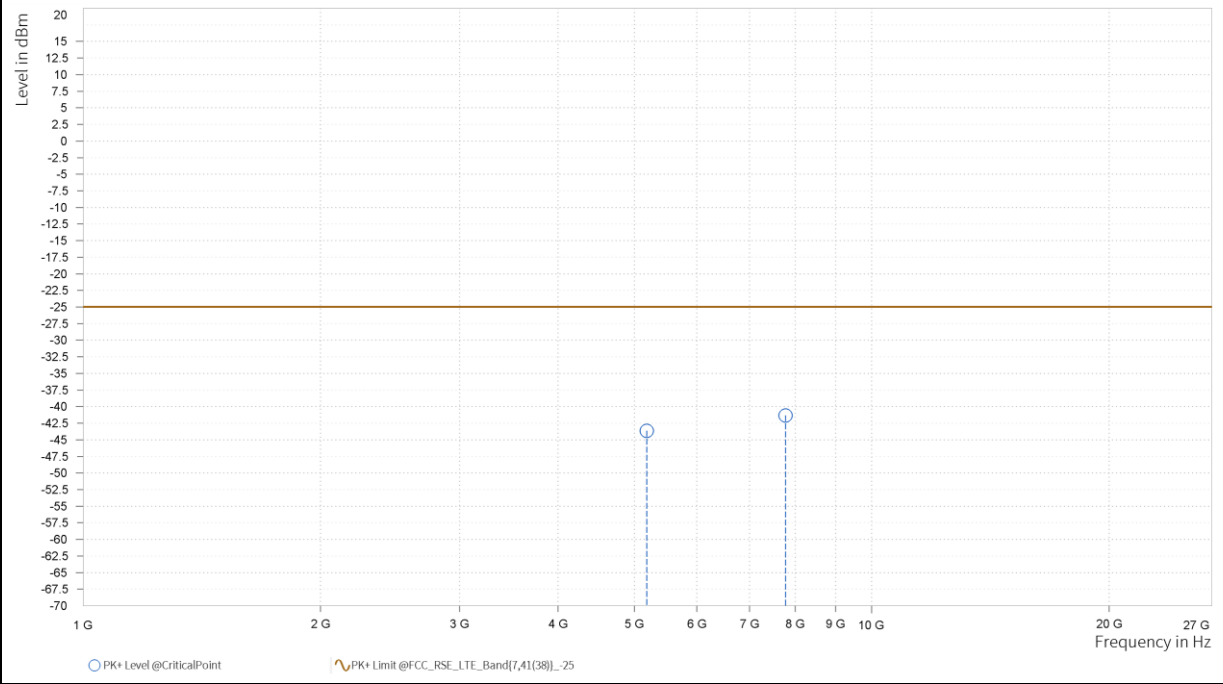


Test Report No.: PSU-QSU2306120115RF05

MODE	TX channel 40640	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,181.000	-43.64	-25.0	18.64	30.06	V	110.7	2.0
4	7,771.500	-41.33	-25.0	16.33	35.42	V	0.9	2.0





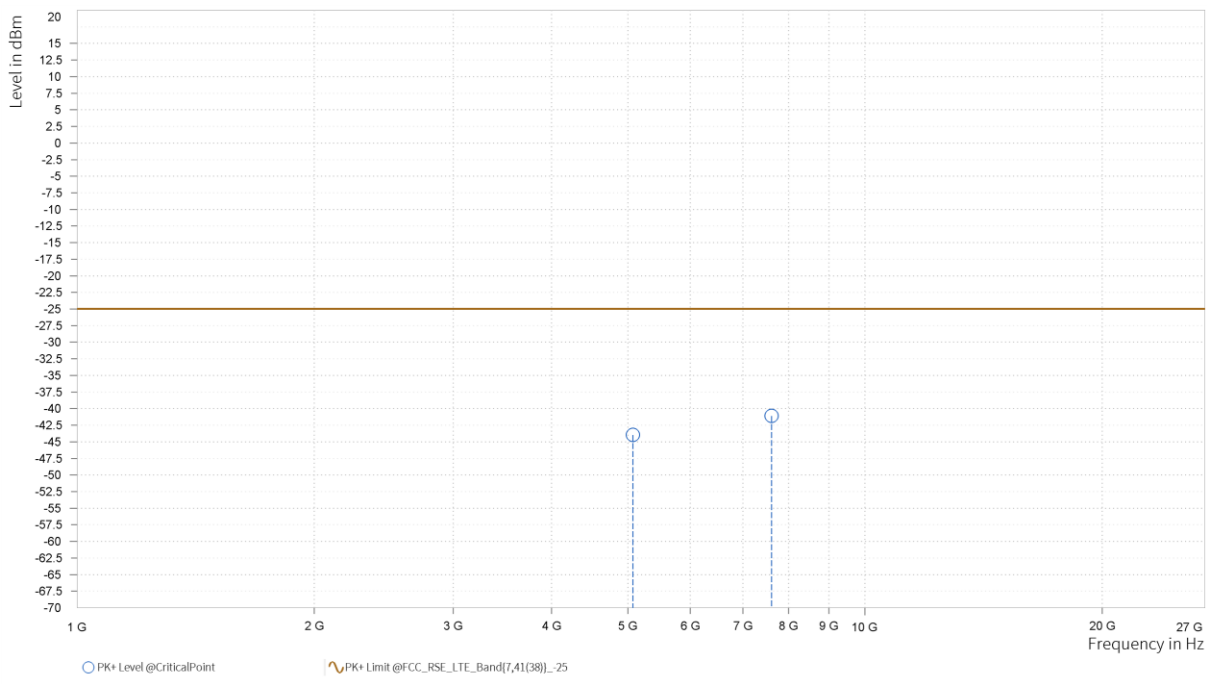
Test Report No.: PSU-QSU2306120115RF05

CHANNEL BANDWIDTH: 15MHz / QPSK
CH 40115

MODE	TX channel 40115	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,071.500	-43.97	-25.0	18.97	29.79	H	1	1.0
4	7,607.250	-41.1	-25.0	16.1	35.01	H	1	1.0



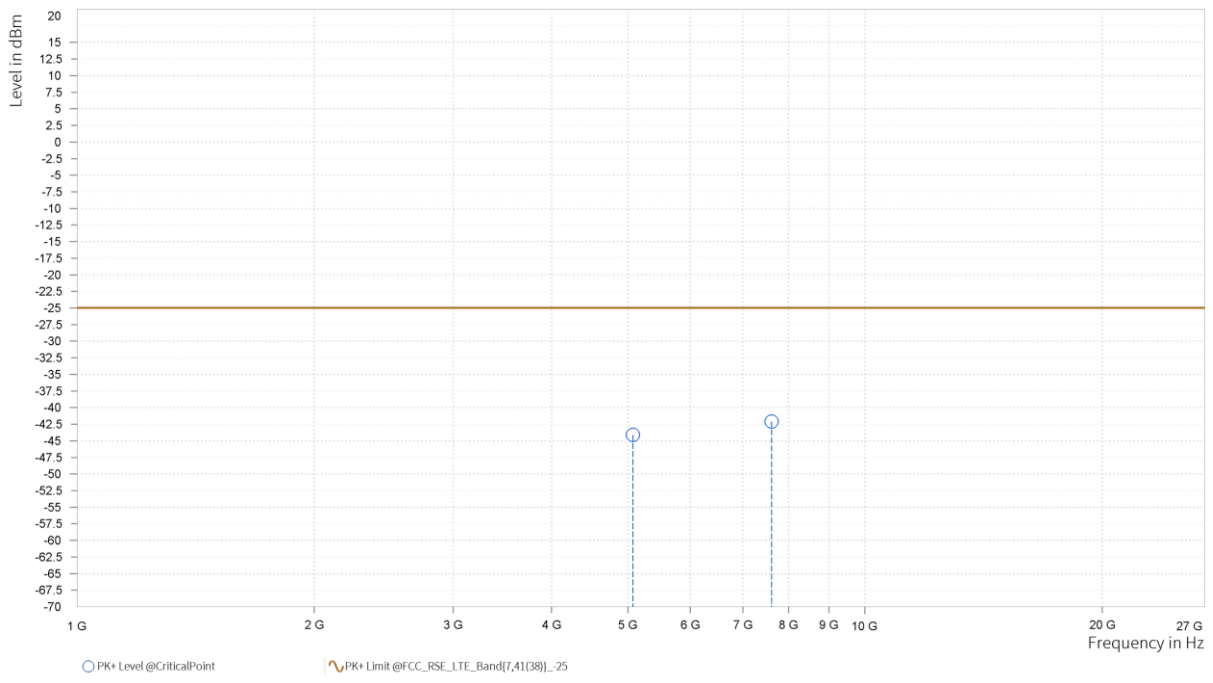


Test Report No.: PSU-QSU2306120115RF05

MODE	TX channel 40115	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,071.500	-44.12	-25.0	19.12	29.57	V	89.3	2.0
4	7,607.250	-42.08	-25.0	17.08	35.01	V	89.3	2.0





**BUREAU
VERITAS**

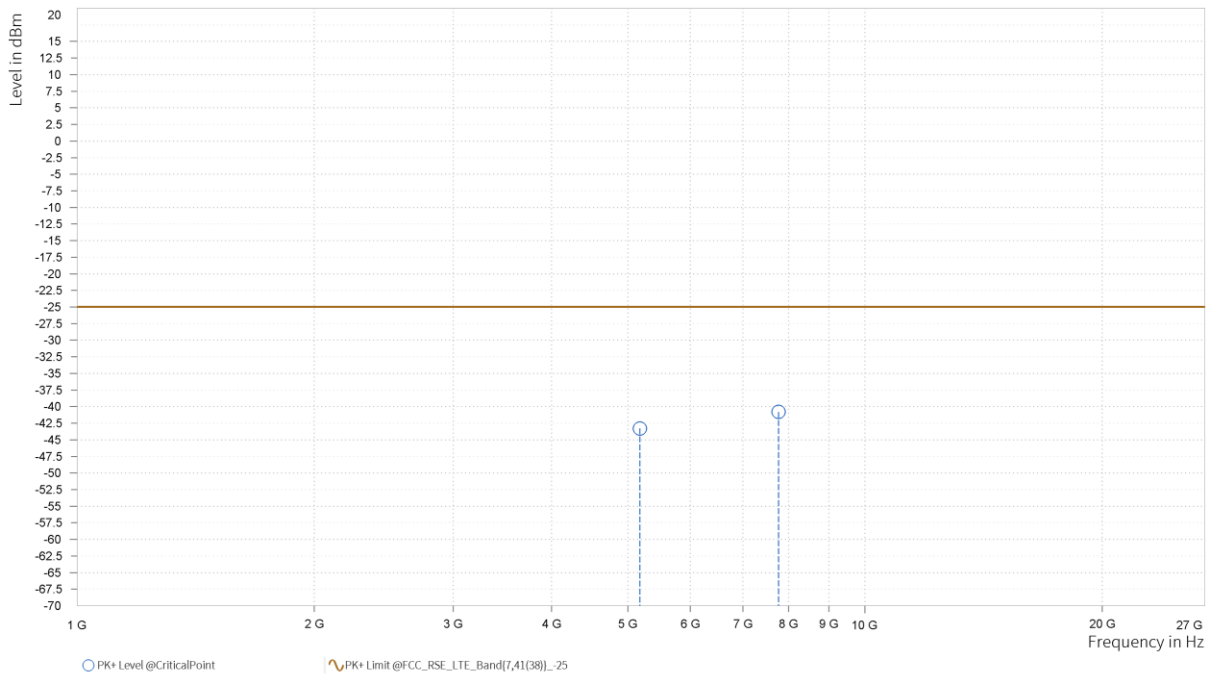
Test Report No.: PSU-QSU2306120115RF05

CH40640

MODE	TX channel 40640	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,176.500	-43.28	-25.0	18.28	30.26	H	0.9	2.0
4	7,764.750	-40.8	-25.0	15.8	36.14	H	1.0	1.0



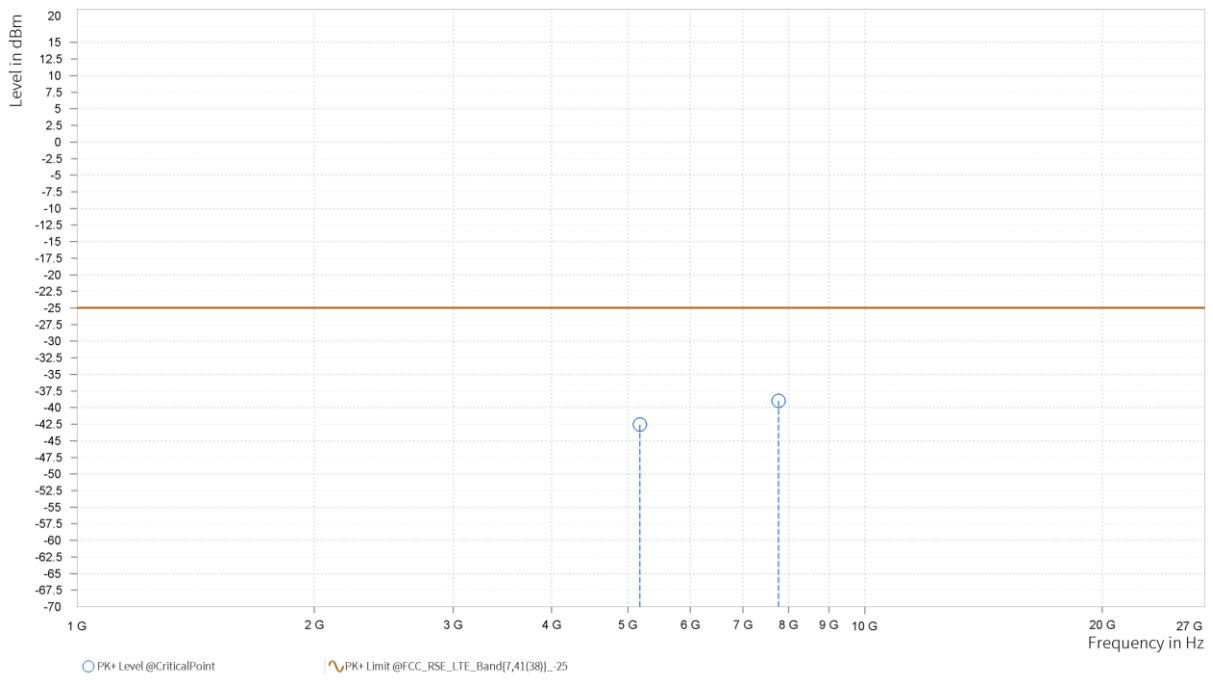


Test Report No.: PSU-QSU2306120115RF05

MODE	TX channel 40640	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,176.500	-42.56	-25.0	17.56	30.19	V	359.1	1.0
4	7,764.750	-38.97	-25.0	13.97	36.17	V	328.2	1.0





**BUREAU
VERITAS**

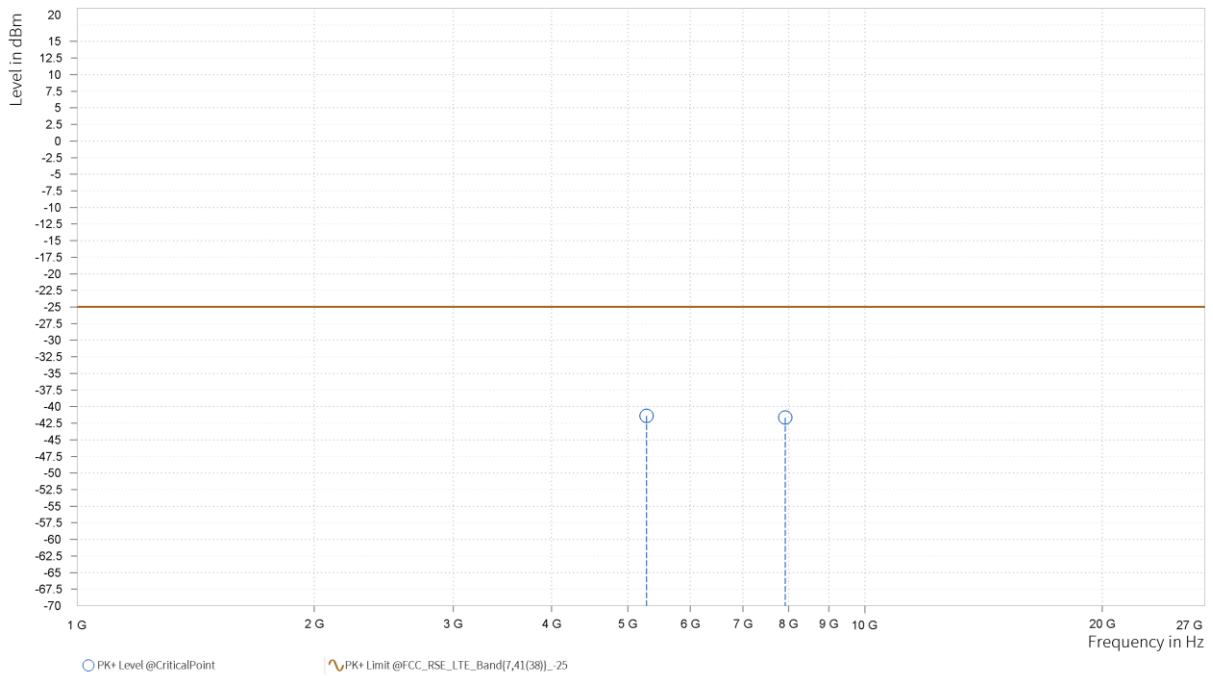
Test Report No.: PSU-QSU2306120115RF05

CH 41165

MODE	TX channel 41165	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,281.500	-41.4	-25.0	16.4	30.23	H	359.1	1.0
4	7,922.250	-41.64	-25.0	16.64	34.93	H	1.0	2.0



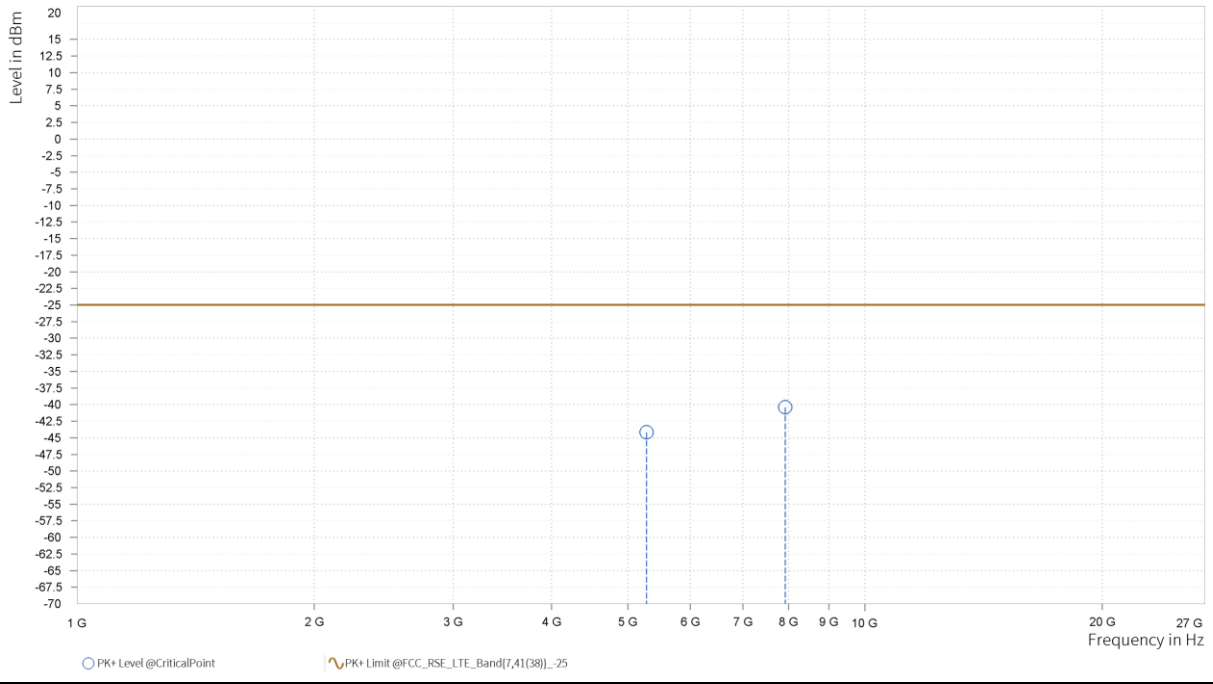


Test Report No.: PSU-QSU2306120115RF05

MODE	TX channel 41165	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,281.500	-44.17	-25.0	19.17	30.15	V	359	2.0
4	7,922.250	-40.39	-25.0	15.39	35.03	V	1	2.0





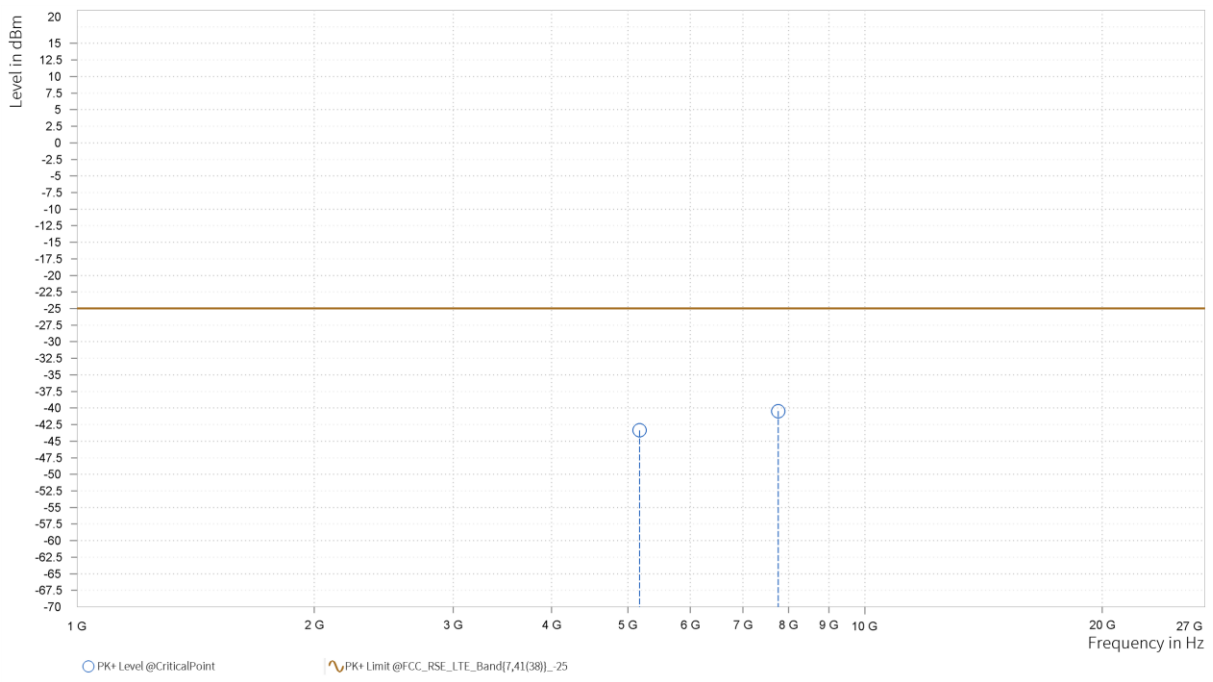
Test Report No.: PSU-QSU2306120115RF05

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 40640	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,172.000	-43.36	-25.0	18.36	30.39	H	352.6	1.0
4	7,758.000	-40.48	-25.0	15.48	36.59	H	1.0	2.0



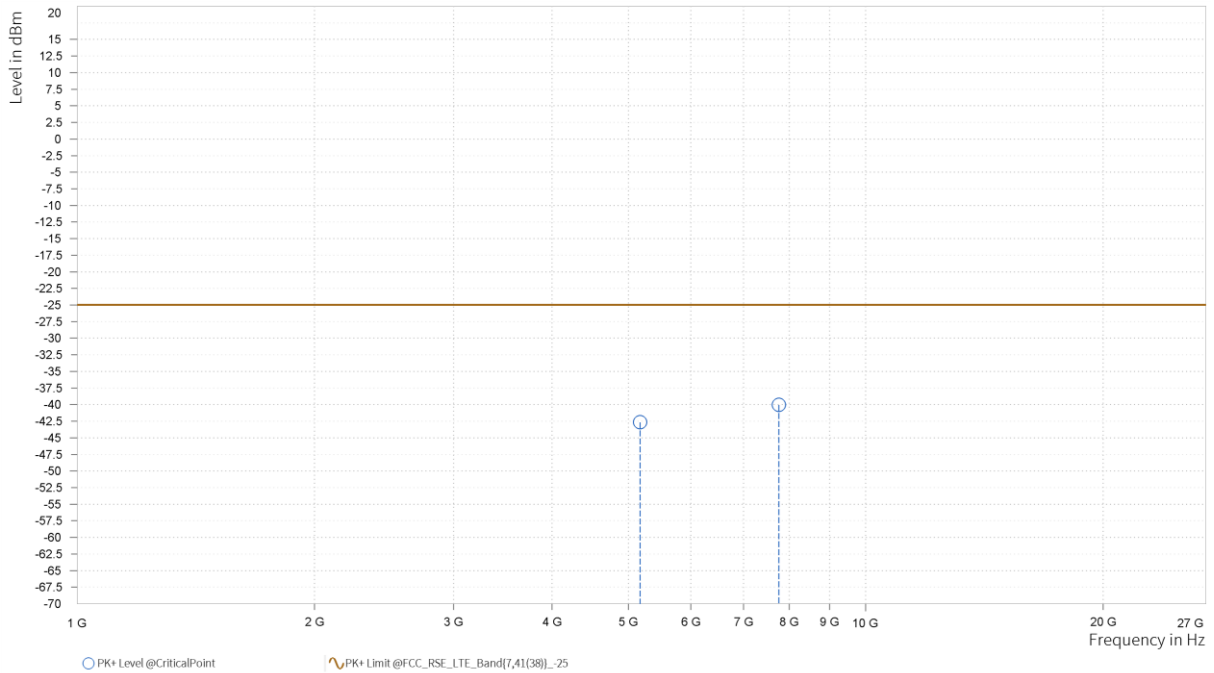


Test Report No.: PSU-QSU2306120115RF05

MODE	TX channel 40640	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V 60HZ
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,172.000	-42.66	-25.0	17.66	30.32	V	359.0	2.0
4	7,758.000	-40.05	-25.0	15.05	36.62	V	279.2	1.0

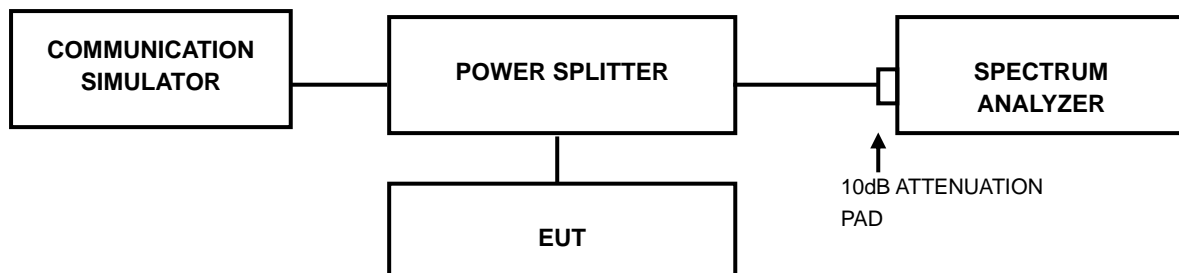


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



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3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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4 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd. ,were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

If you have any comments, please feel free to contact us at the following:

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008



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5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



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6 Appendix

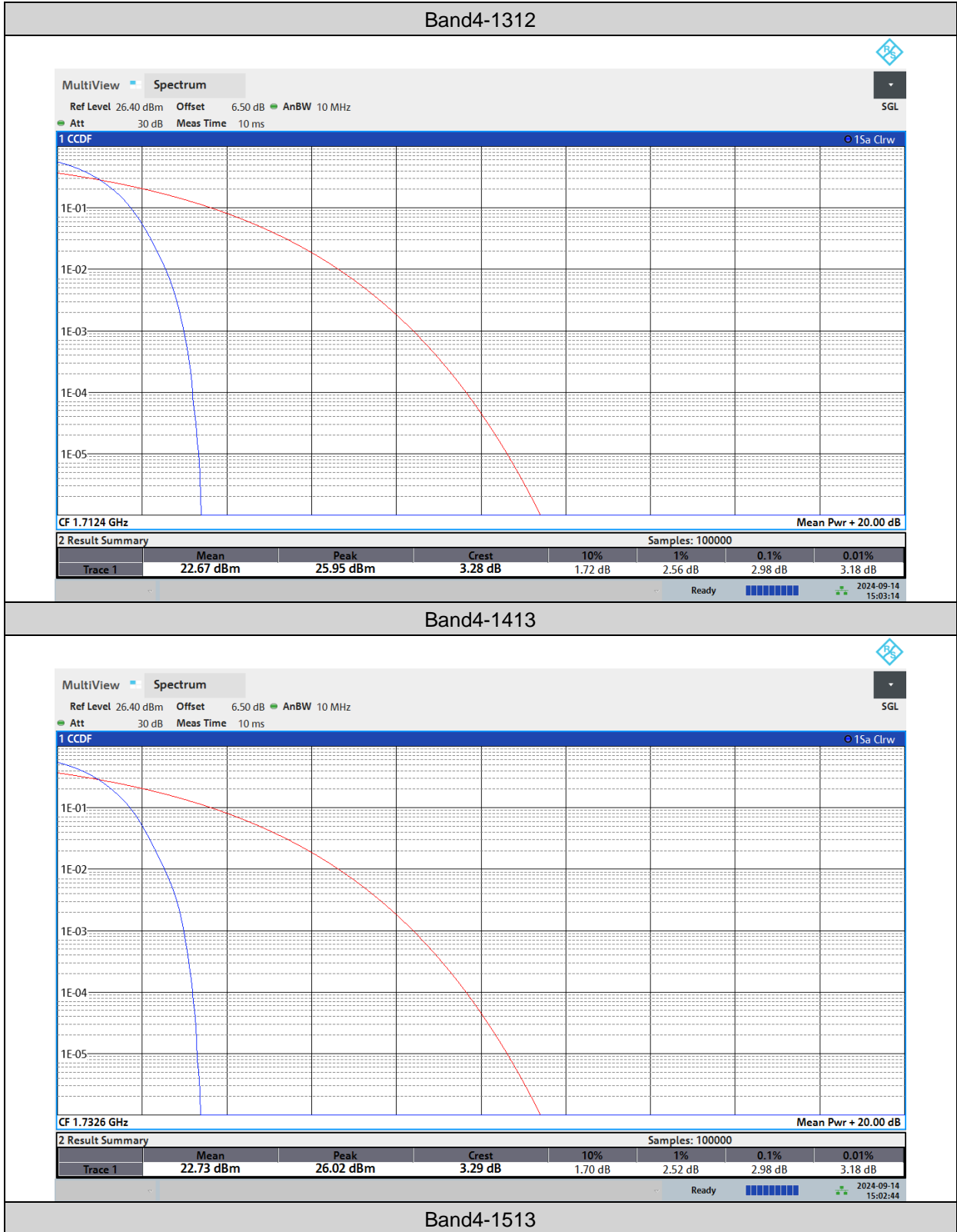
WCDMA BAND4

PEAK-TO-AVERAGE RATIO

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band4	1312	2.98	13	PASS
Band4	1413	2.98	13	PASS
Band4	1513	2.98	13	PASS

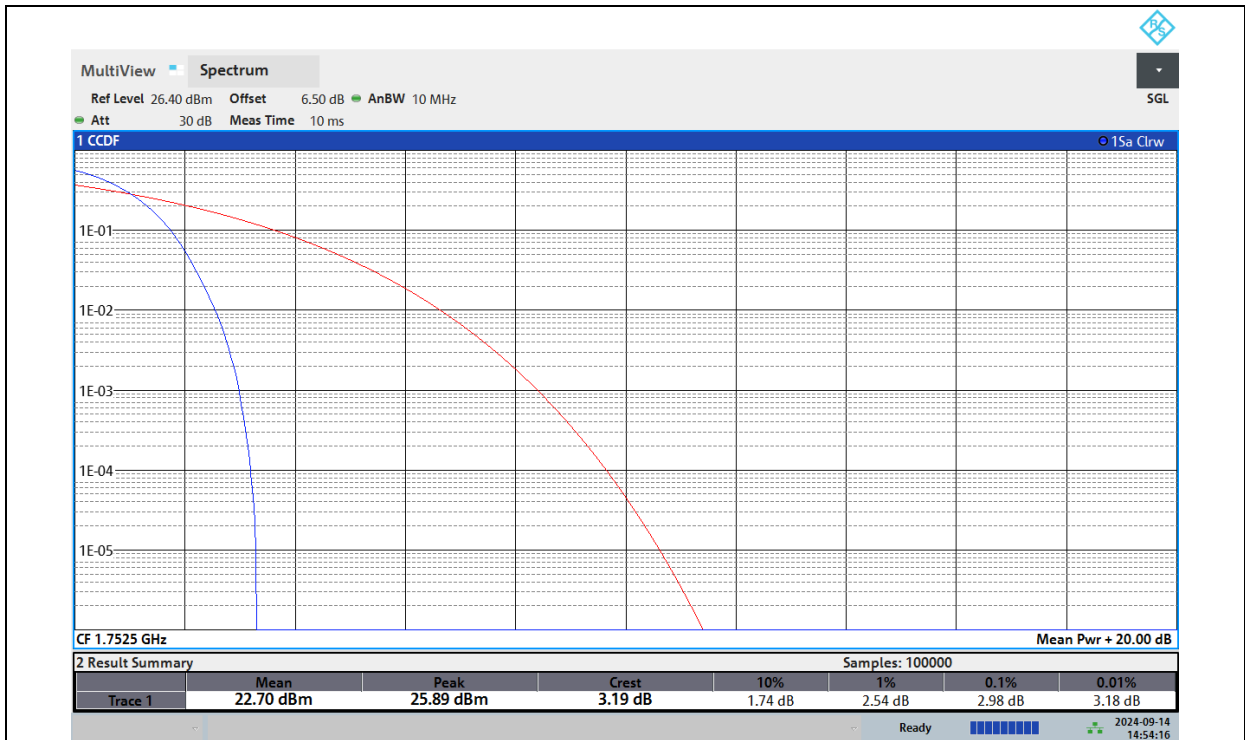
Test Graphs





BUREAU VERITAS

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26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1312	4.142	4.63	PASS
Band4	1413	4.135	4.63	PASS
Band4	1513	4.143	4.63	PASS

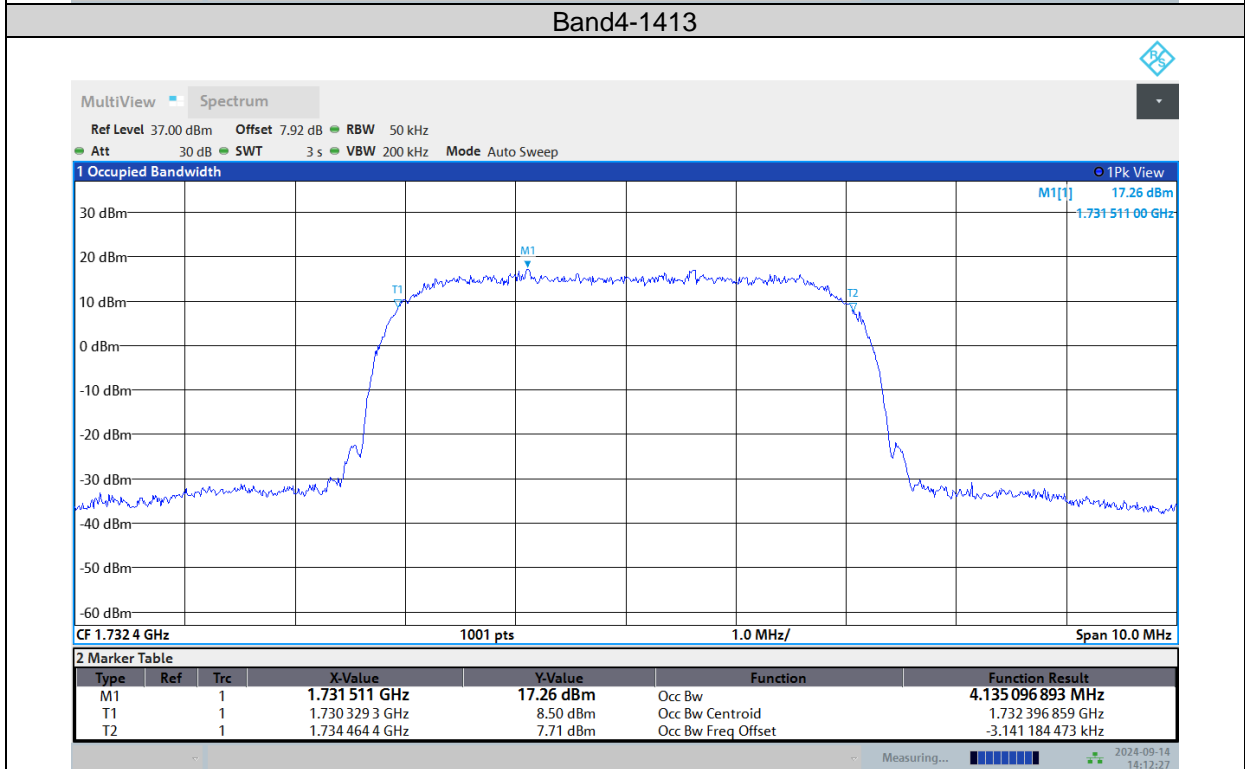
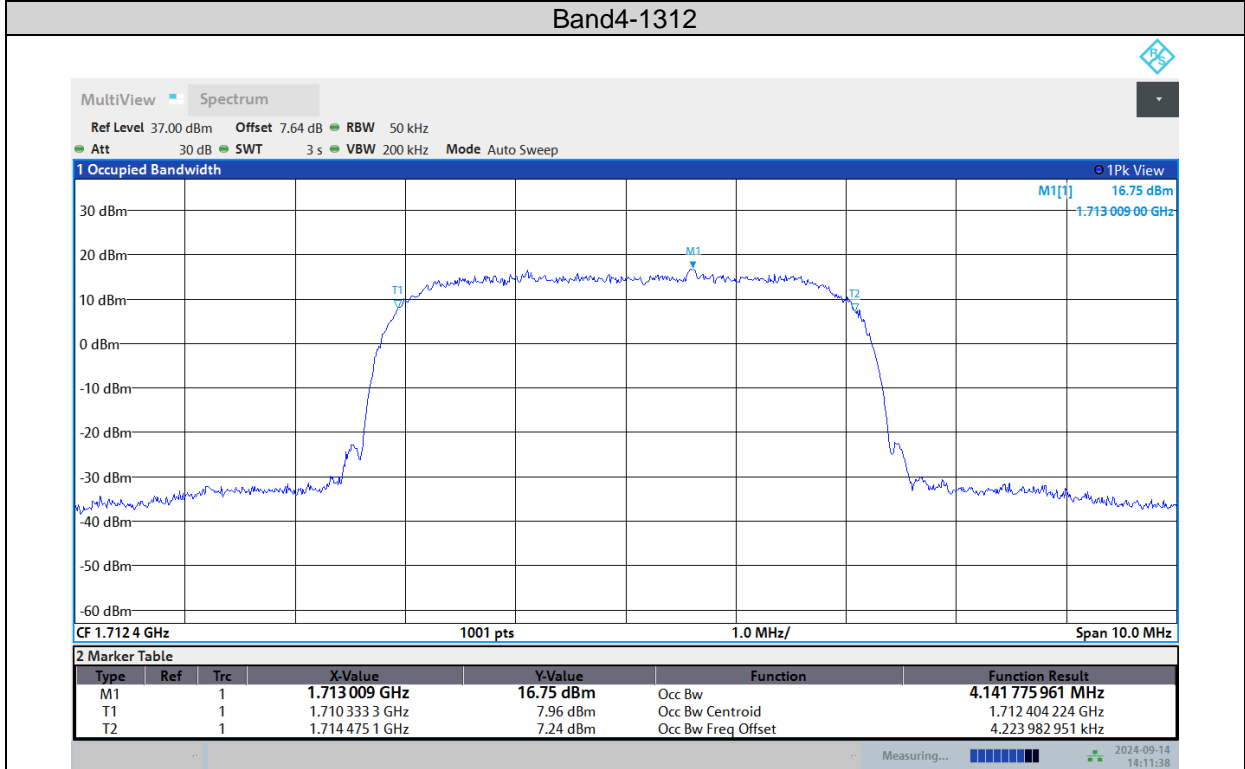


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Test Graphs

Occupied Bandwidth

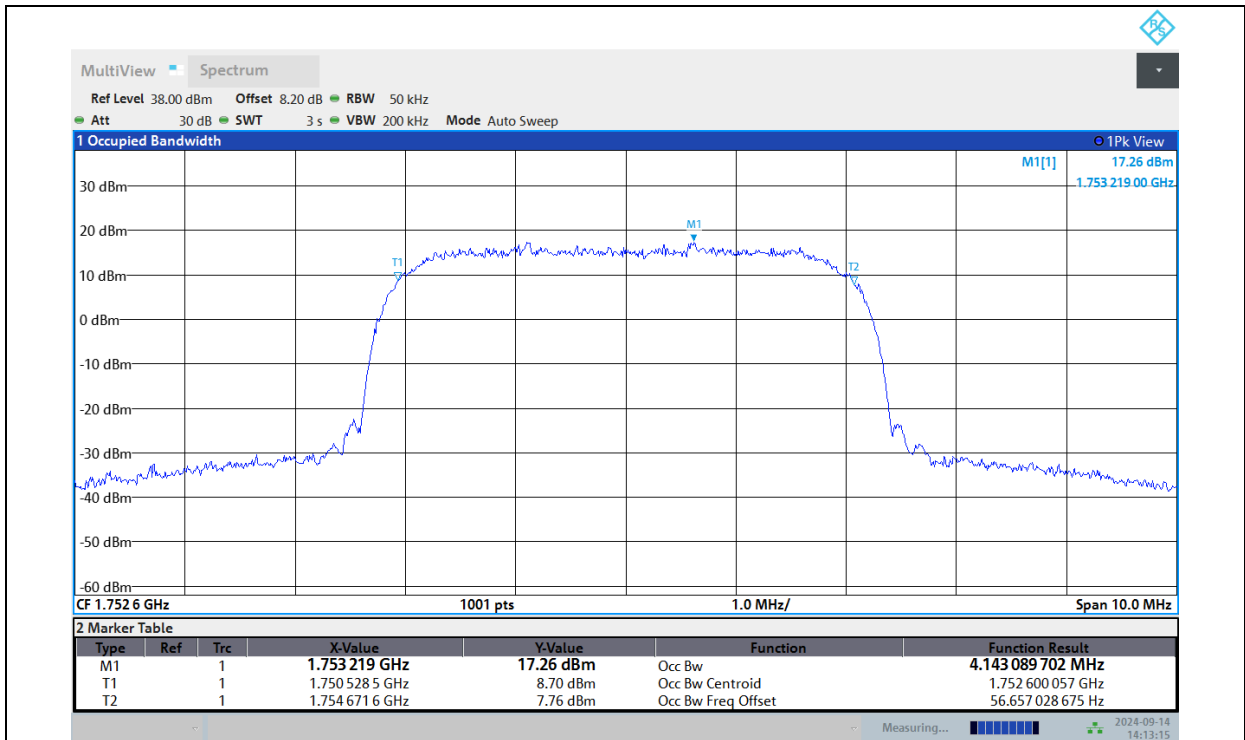


Band4-1513

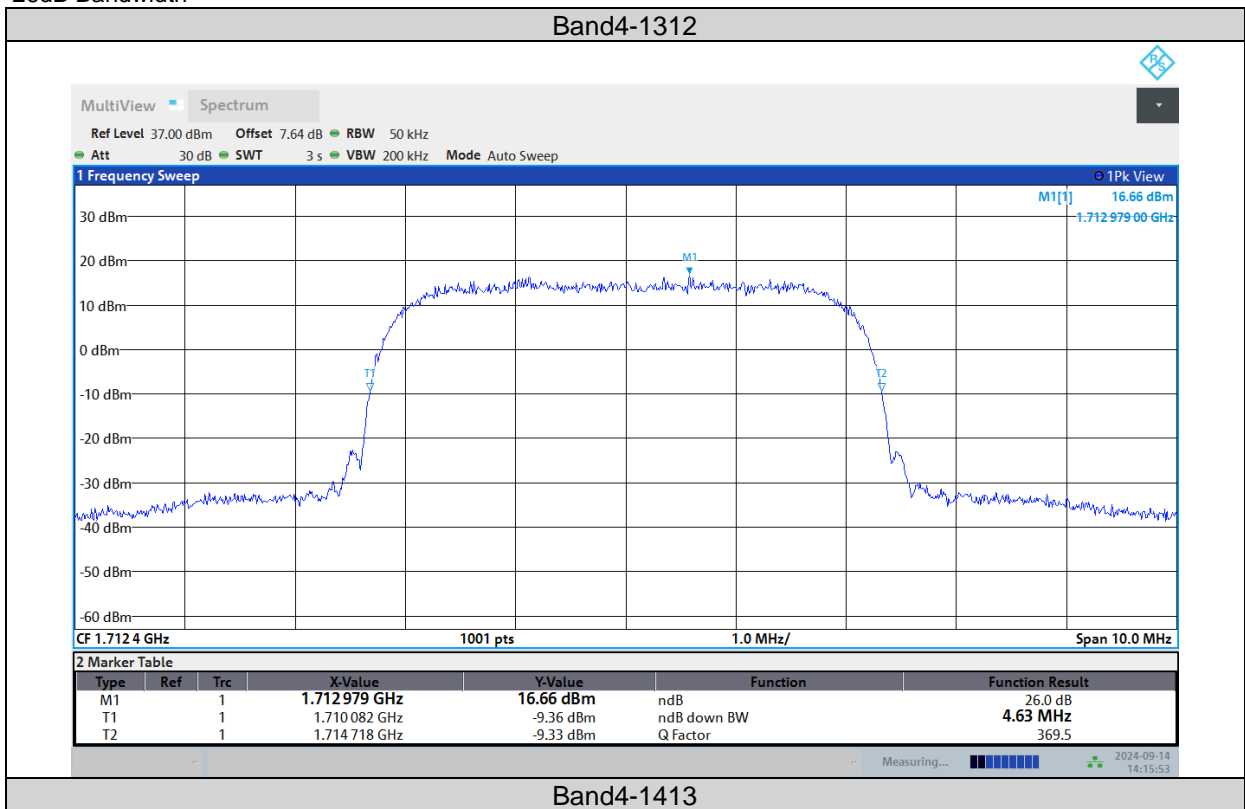


BUREAU
VERITAS

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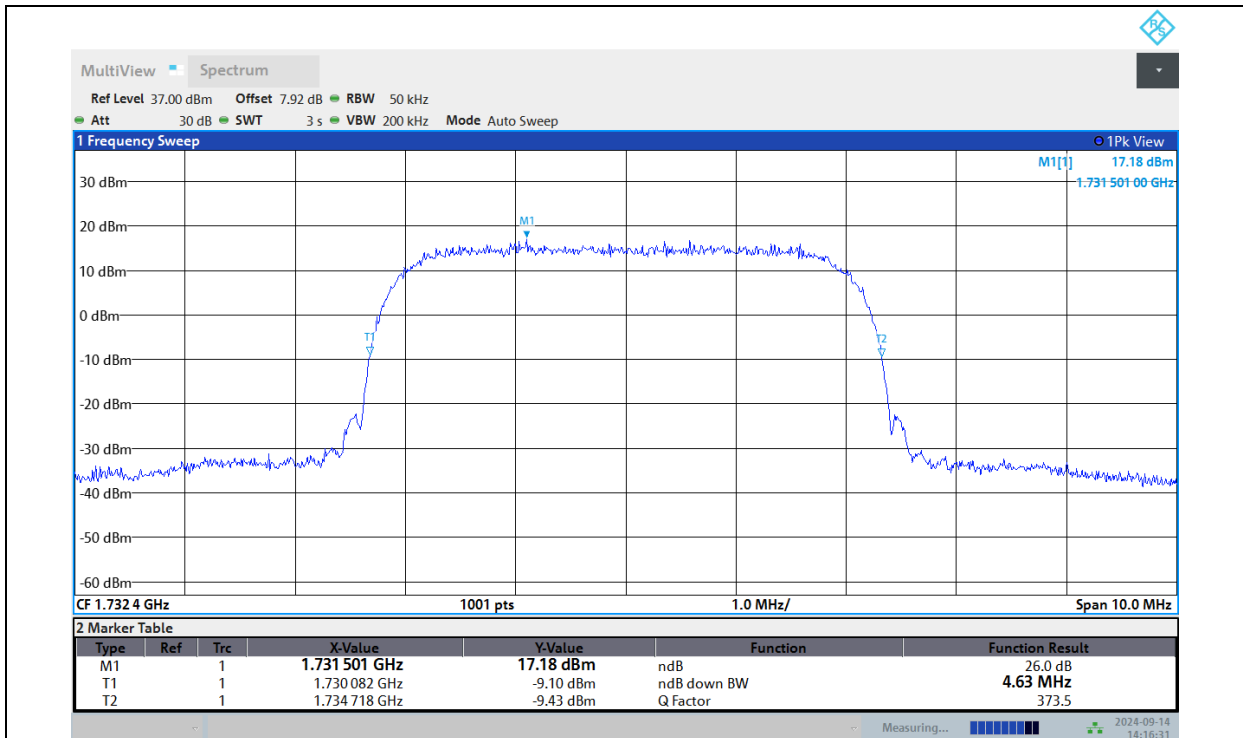
26dB Bandwidth



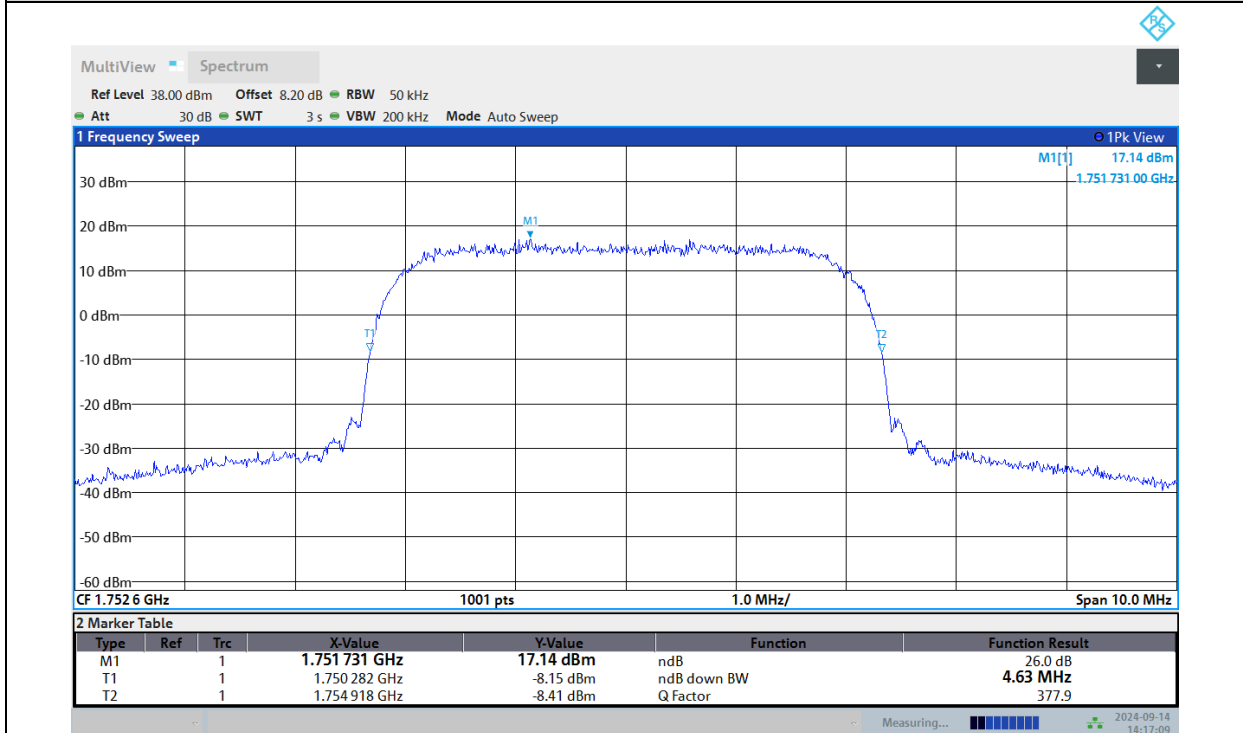


BUREAU VERITAS

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Band4-1513





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BAND EDGE

Test Result

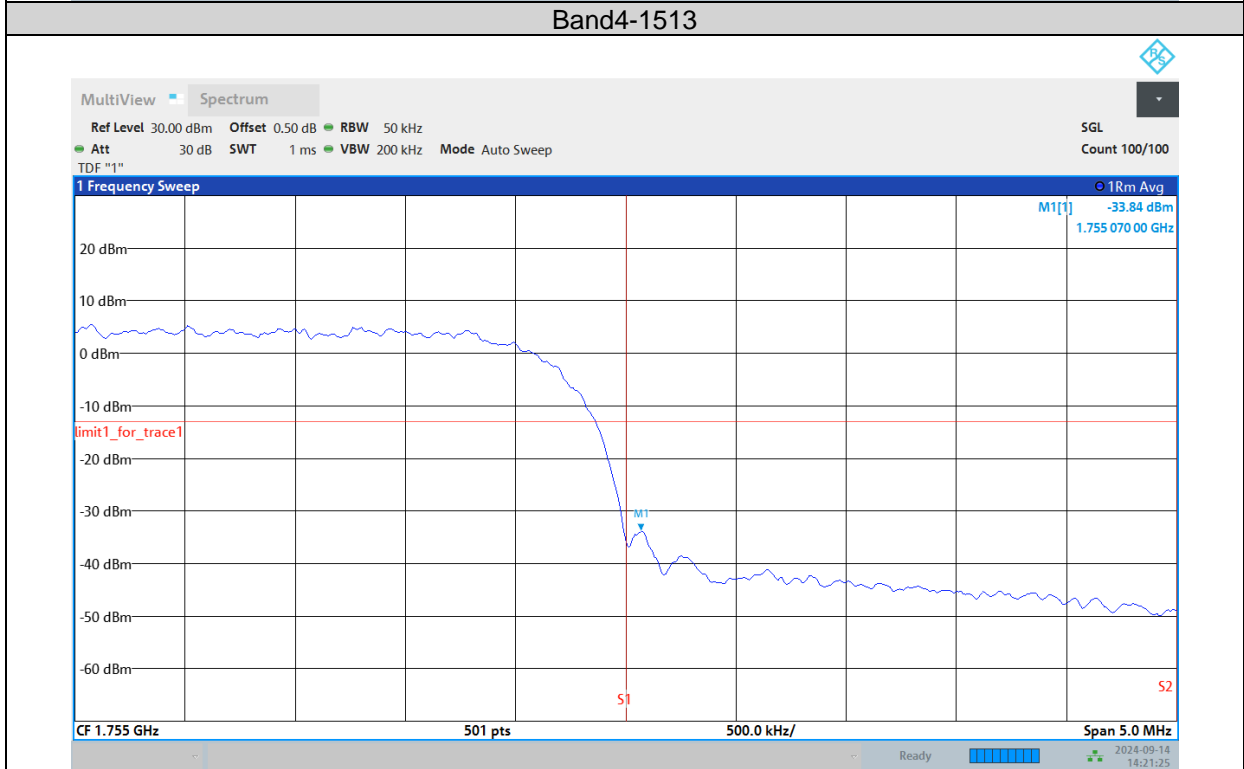
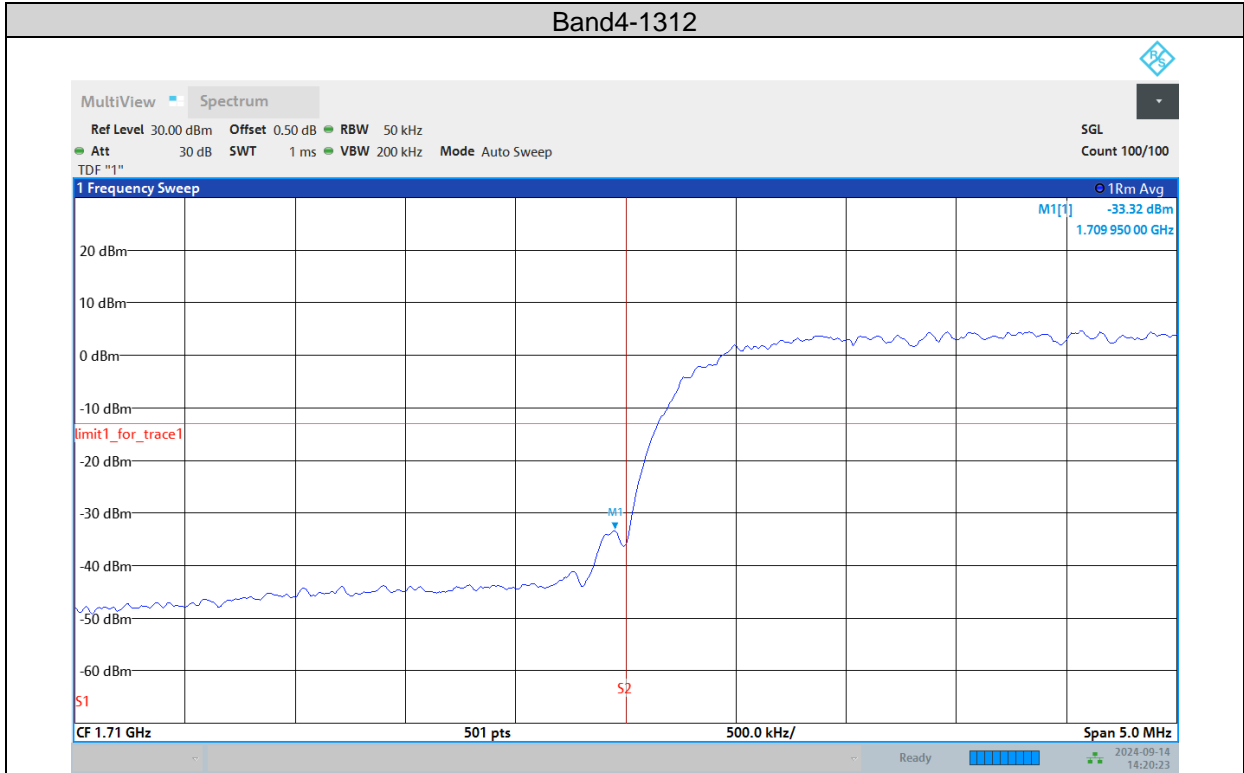
Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1709.95	-33.32	-13	PASS
Band4	1513	1755.07	-33.84	-13	PASS



BUREAU VERITAS

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STest Graphs





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CONDUCTED SPURIOUS EMISSION

Test Result

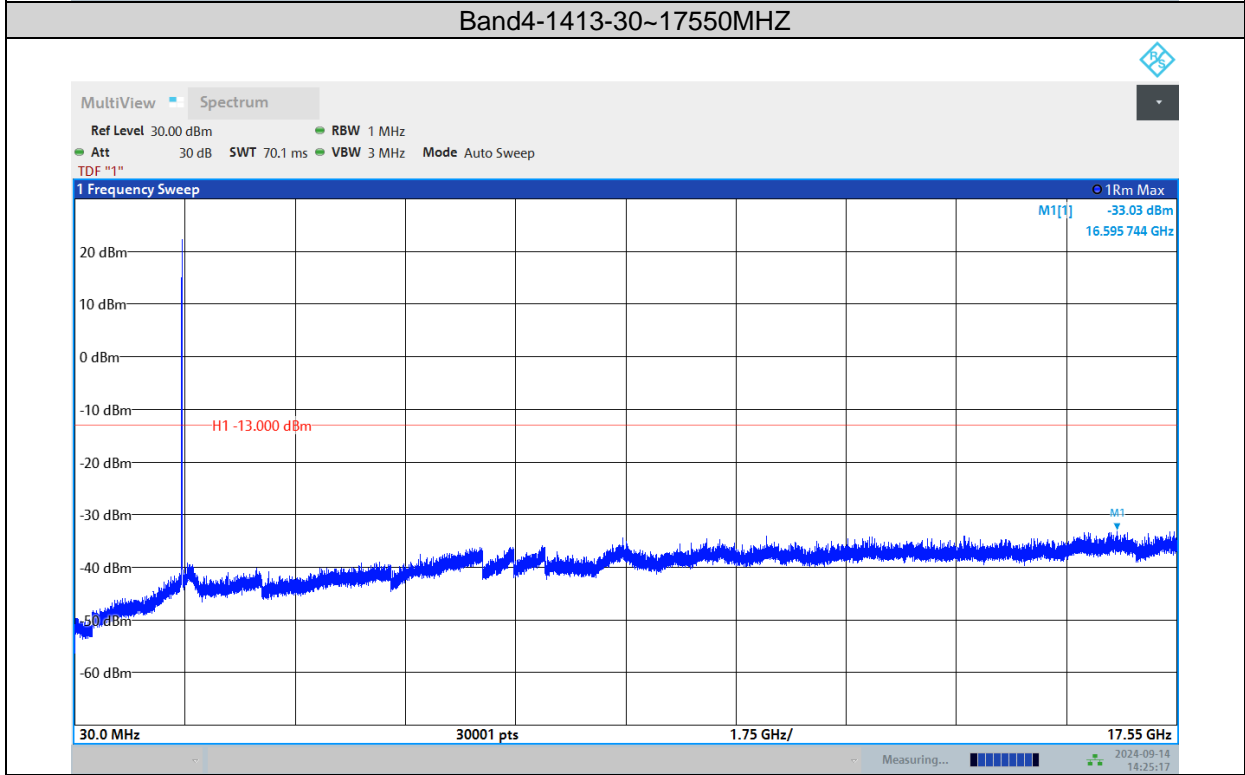
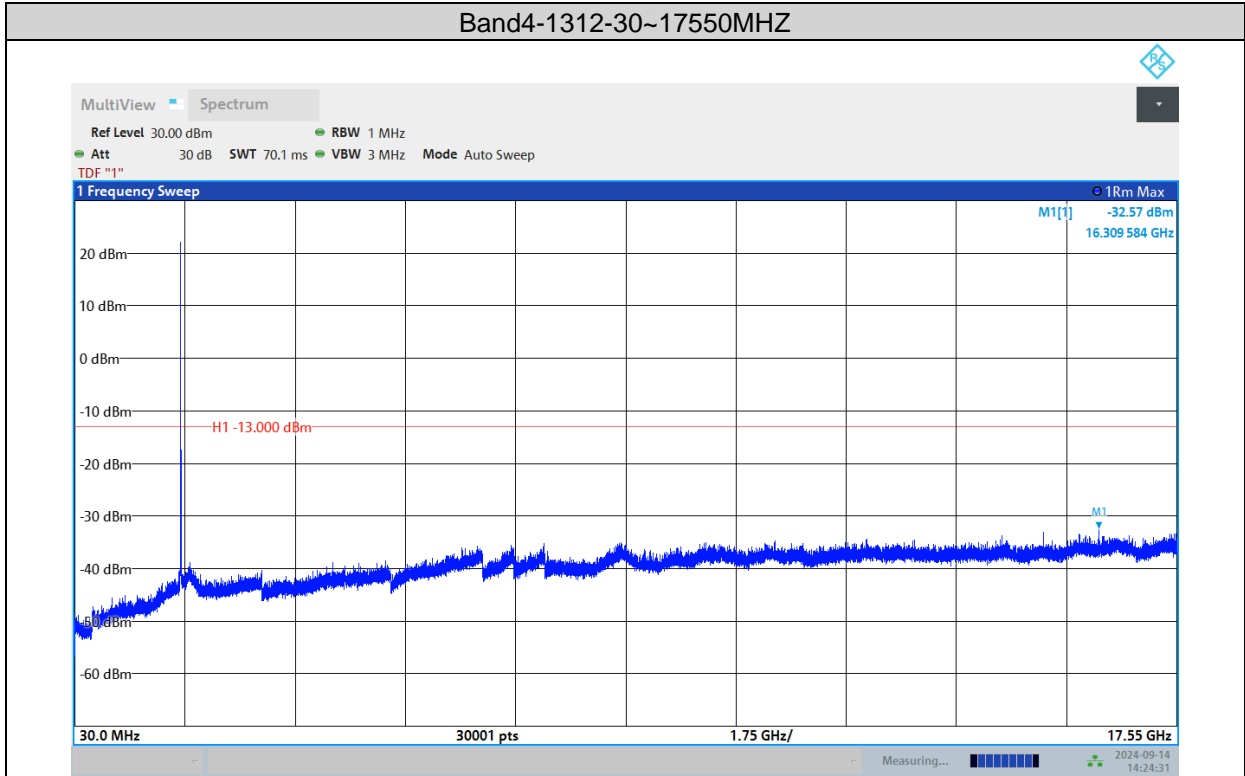
Band	Channel	Frequency Range (Mhz)	Frequency (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	30~17550MHZ	16309.584	-32.57	-13	PASS
Band4	1413	30~17550MHZ	16595.744	-33.03	-13	PASS
Band4	1513	30~17550MHZ	16654.144	-33.08	-13	PASS



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VERITAS

Test Report No.: PSU-QSU2306120115RF05

Test Graphs

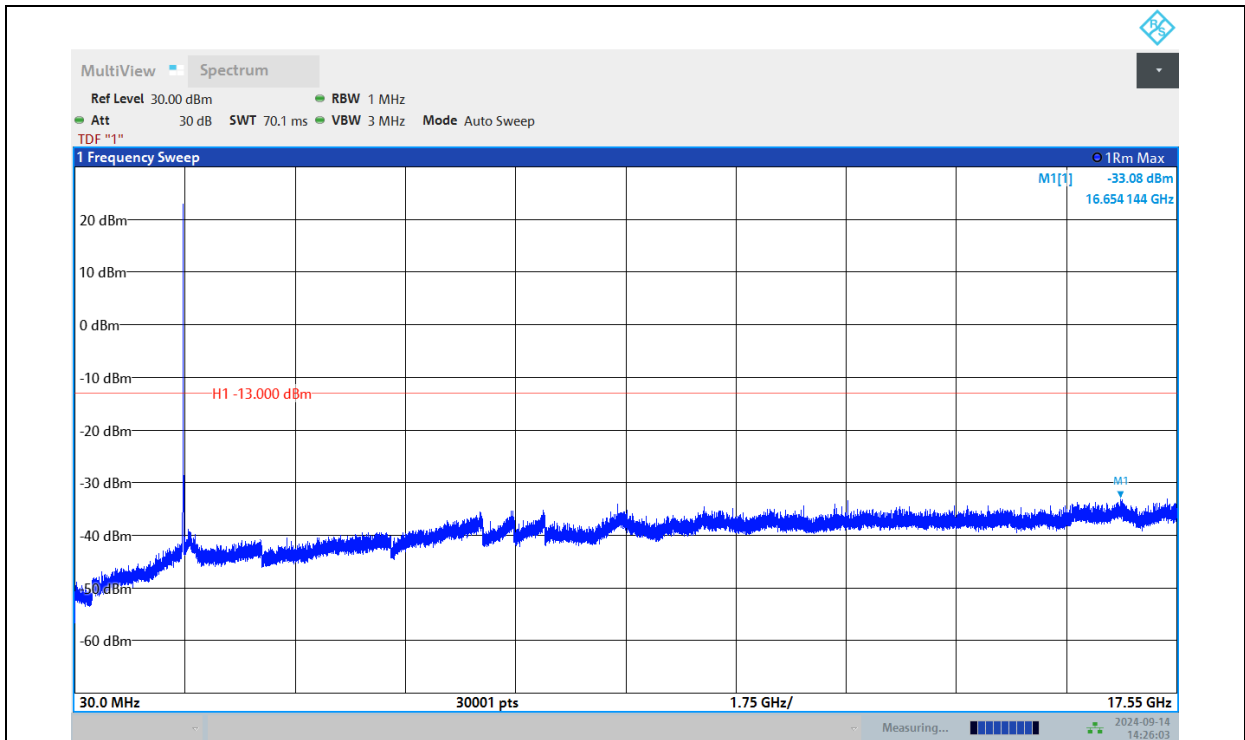


Band4-1513-30~17550MHZ



BUREAU
VERITAS

Test Report No.: PSU-QSU2306120115RF05





FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	VL	NT	-4.85	-0.0028	±2.5	PASS
Band4	1312	VN	NT	5.97	0.0035	±2.5	PASS
Band4	1312	VH	NT	8.96	0.0052	±2.5	PASS
Band4	1413	VL	NT	1.62	0.0009	±2.5	PASS
Band4	1413	VN	NT	6.72	0.0038	±2.5	PASS
Band4	1413	VH	NT	0.90	0.0005	±2.5	PASS
Band4	1513	VL	NT	-4.77	-0.0027	±2.5	PASS
Band4	1513	VN	NT	3.00	0.0017	±2.5	PASS
Band4	1513	VH	NT	-4.87	-0.0027	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	NV	-30	0.73	0.0004	±2.5	PASS
Band4	1312	NV	-20	-0.77	0.0009	±2.5	PASS
Band4	1312	NV	0	0.37	0.0002	±2.5	PASS
Band4	1312	NV	-10	1.60	0.0009	±2.5	PASS
Band4	1312	NV	10	-4.94	-0.0029	±2.5	PASS
Band4	1312	NV	20	-9.79	-0.0057	±2.5	PASS
Band4	1312	NV	30	8.86	0.0052	±2.5	PASS
Band4	1312	NV	40	4.48	0.0026	±2.5	PASS
Band4	1312	NV	50	8.03	0.0047	±2.5	PASS
Band4	1413	NV	-30	-3.68	-0.0021	±2.5	PASS
Band4	1413	NV	-20	-7.44	-0.0043	±2.5	PASS
Band4	1413	NV	-10	-9.45	-0.0054	±2.5	PASS
Band4	1413	NV	0	8.43	0.0048	±2.5	PASS
Band4	1413	NV	10	-9.27	-0.0053	±2.5	PASS
Band4	1413	NV	20	8.26	0.0047	±2.5	PASS
Band4	1413	NV	30	-9.08	-0.0052	±2.5	PASS
Band4	1413	NV	40	-1.19	-0.0007	±2.5	PASS
Band4	1413	NV	50	1.65	0.0009	±2.5	PASS
Band4	1513	NV	-30	-0.48	-0.0003	±2.5	PASS
Band4	1513	NV	-20	4.32	0.0024	±2.5	PASS
Band4	1513	NV	-10	2.72	0.0015	±2.5	PASS
Band4	1513	NV	0	2.46	0.0014	±2.5	PASS
Band4	1513	NV	10	0.09	0.0001	±2.5	PASS
Band4	1513	NV	20	5.63	0.0032	±2.5	PASS
Band4	1513	NV	30	-9.91	-0.0056	±2.5	PASS
Band4	1513	NV	40	-0.93	-0.0005	±2.5	PASS
Band4	1513	NV	50	1.04	0.0006	±2.5	PASS



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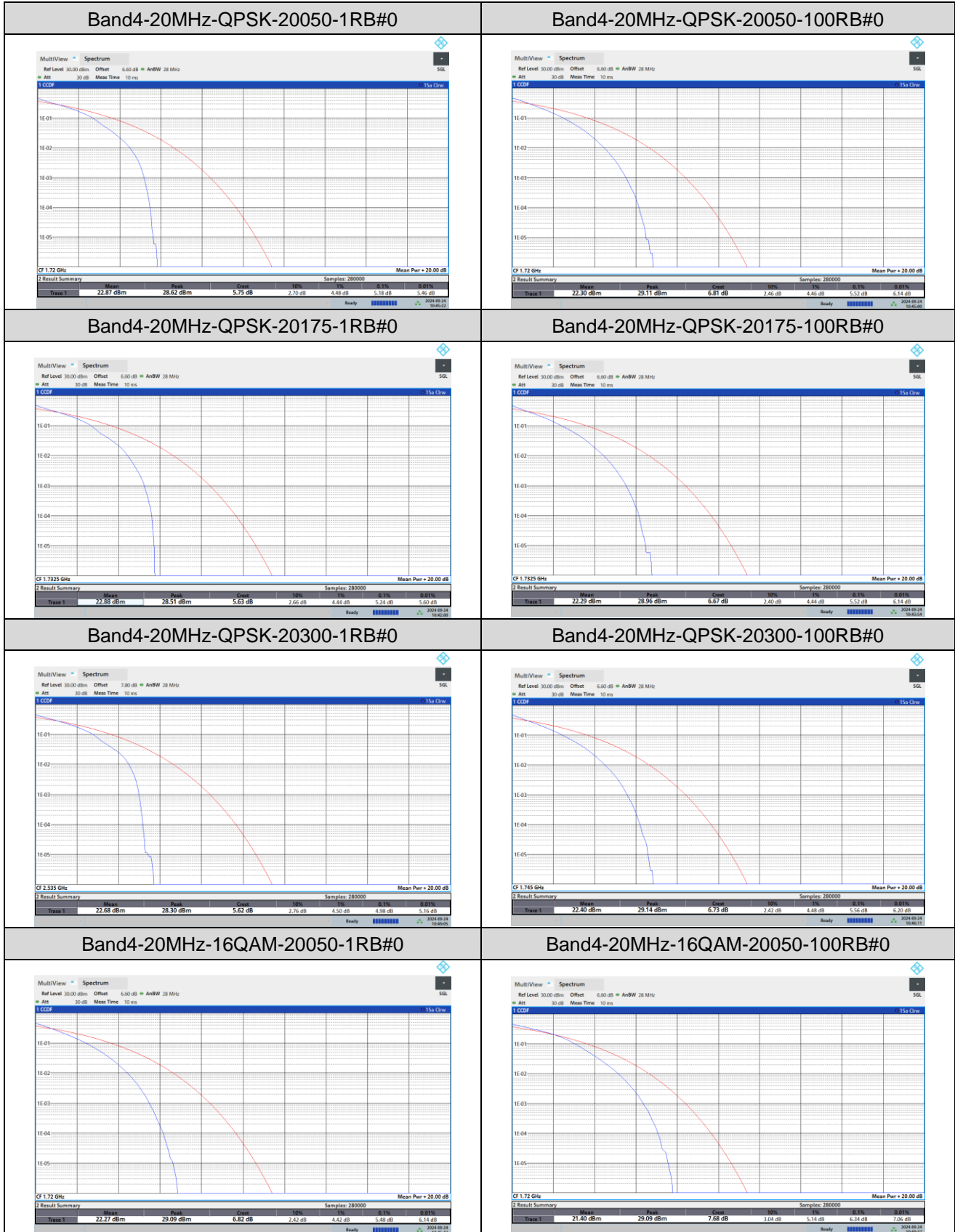
LTE BAND4

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	1RB#0	5.18	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	5.52	13	PASS
Band4	20MHz	QPSK	20175	1RB#0	5.24	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.52	13	PASS
Band4	20MHz	QPSK	20300	1RB#0	4.98	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.56	13	PASS
Band4	20MHz	16QAM	20050	1RB#0	5.48	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.34	13	PASS
Band4	20MHz	16QAM	20175	1RB#0	5.50	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.18	13	PASS
Band4	20MHz	16QAM	20300	1RB#0	5.66	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.40	13	PASS

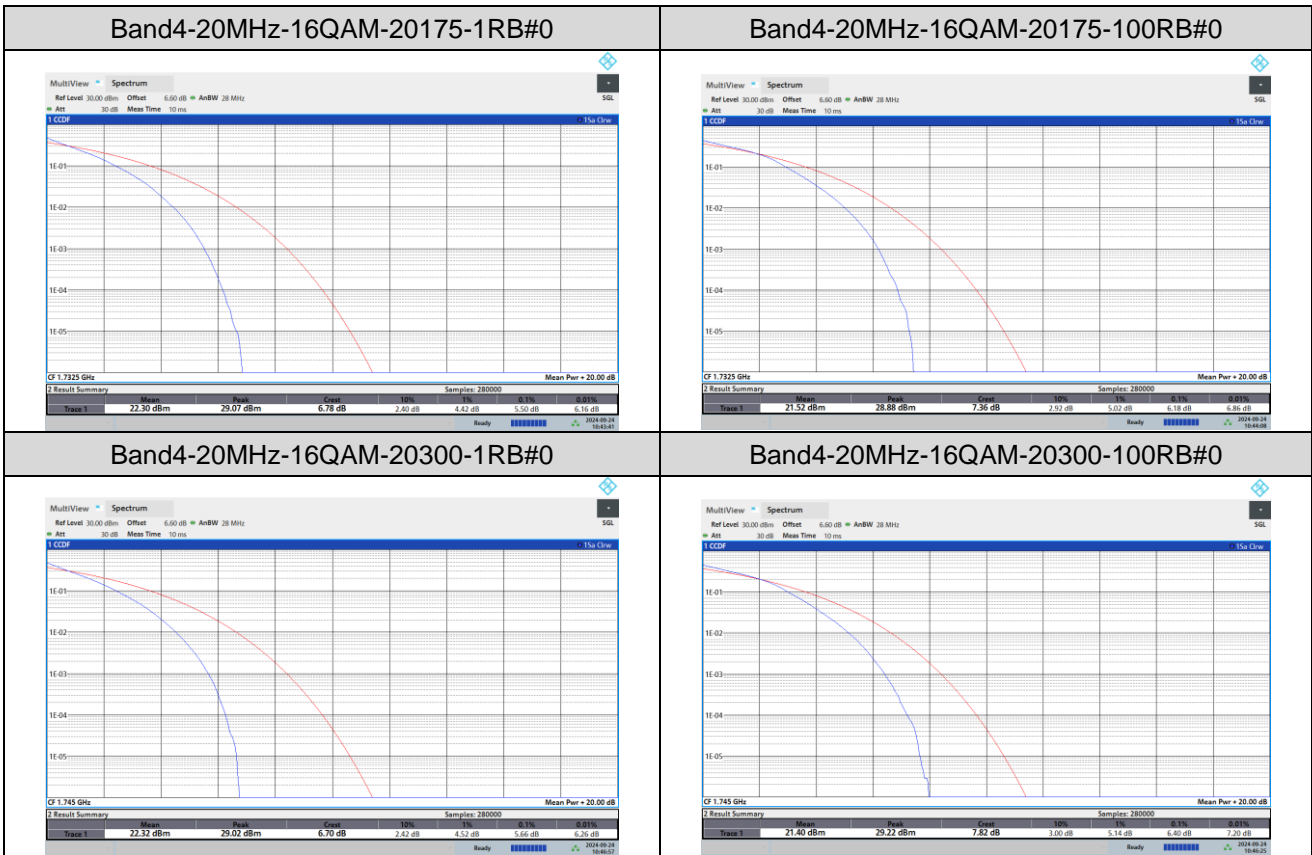
Test Graphs





BUREAU VERITAS

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26DB BANDWIDTH AND OCCUPIED BANDWIDTH

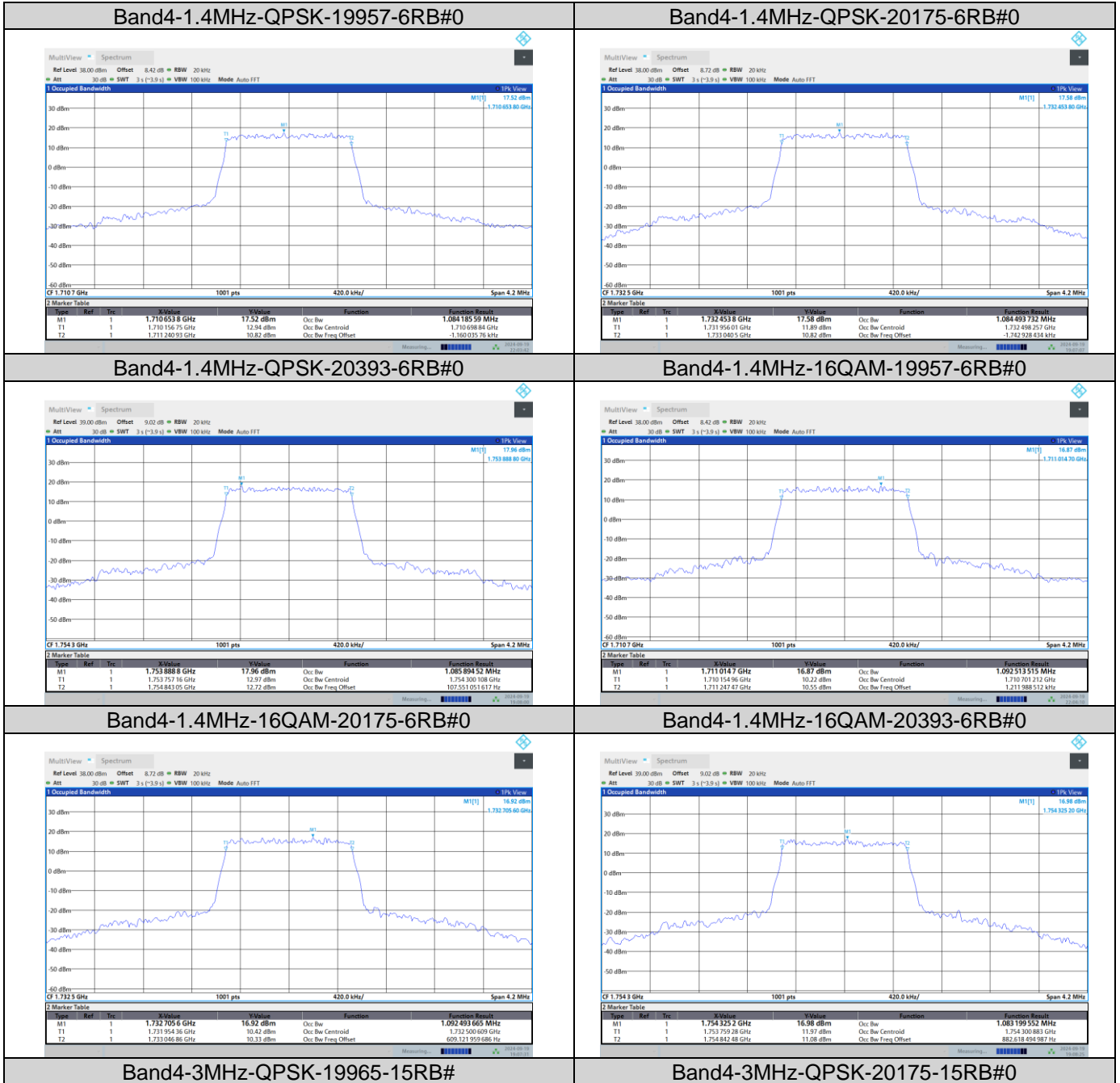
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.084	1.24	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.084	1.24	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.086	1.23	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.093	1.25	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.092	1.24	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.083	1.25	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.696	2.99	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.696	3.01	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.691	3.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.693	3.01	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.689	2.99	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.692	3.01	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.488	4.90	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.483	4.92	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.473	4.88	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.474	4.88	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.487	4.90	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.480	4.93	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.956	9.74	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.945	9.71	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.959	9.77	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.949	9.68	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.960	9.77	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.952	9.77	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.468	14.84	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.414	14.84	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.458	14.88	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.453	14.79	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.470	14.88	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.465	14.79	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.898	19.24	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.888	19.36	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.987	19.54	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.932	19.36	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.919	19.42	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.921	19.60	PASS



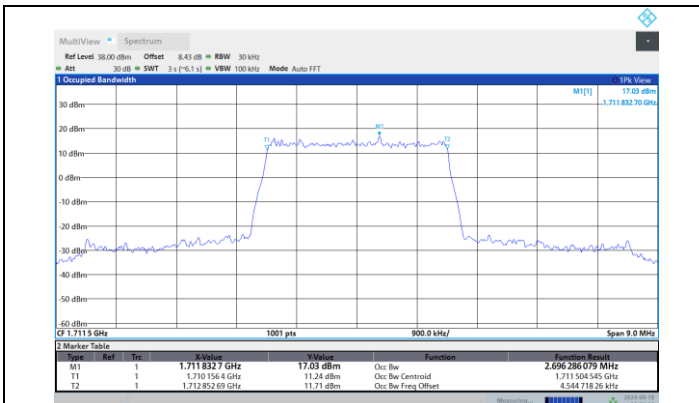
Test Graphs

Occupied Bandwidth

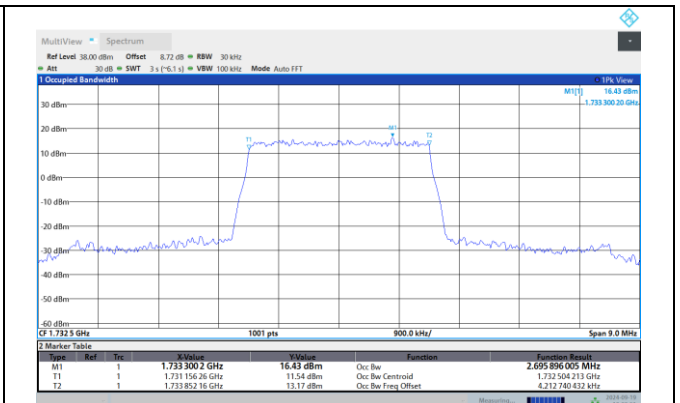




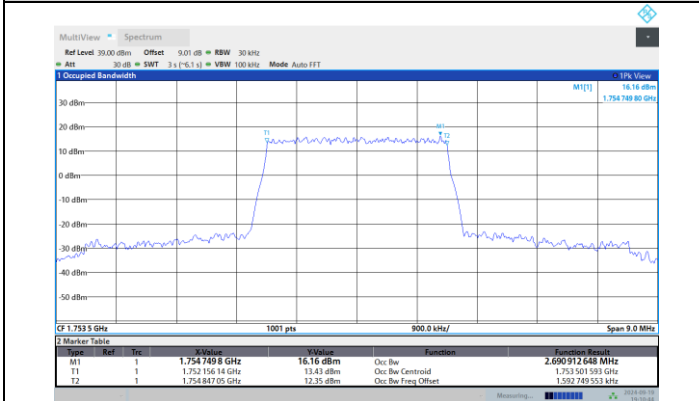
Test Report No.: PSU-QSU2306120115RF05



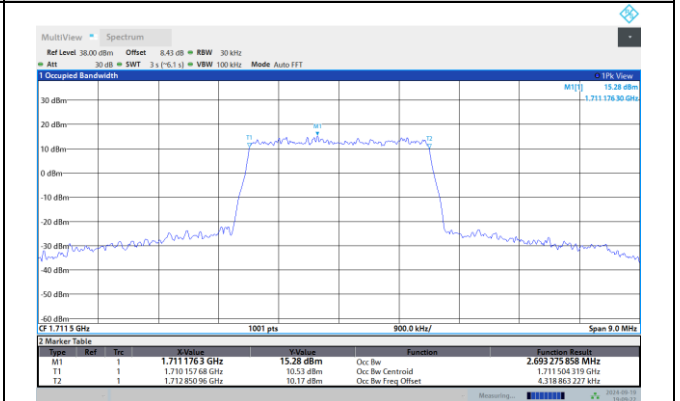
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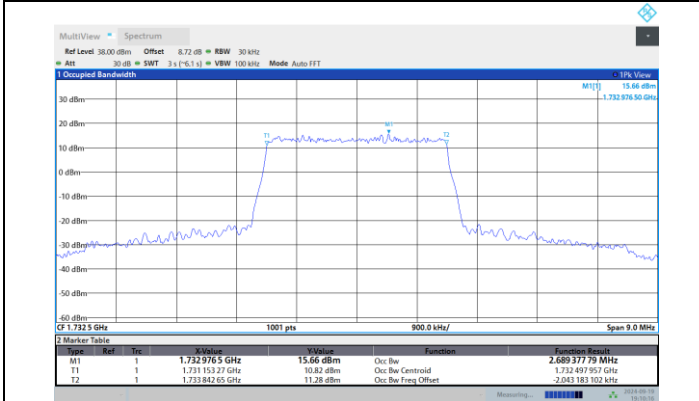
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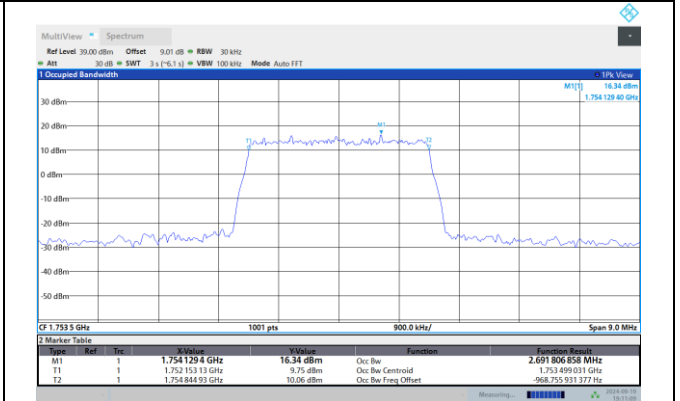
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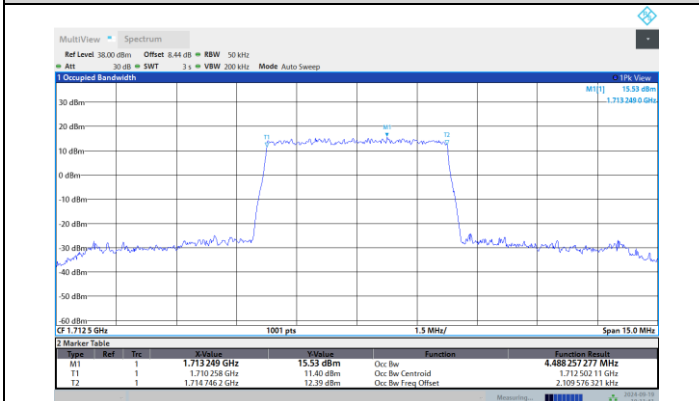
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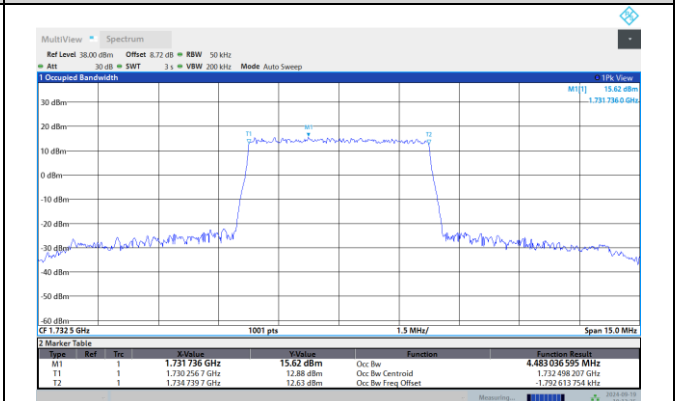
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Band4-5MHz-QPSK-20175-25RB#0



Band4-5MHz-QPSK-20375-25RB#0



Band4-5MHz-16QAM-19975-25RB#0