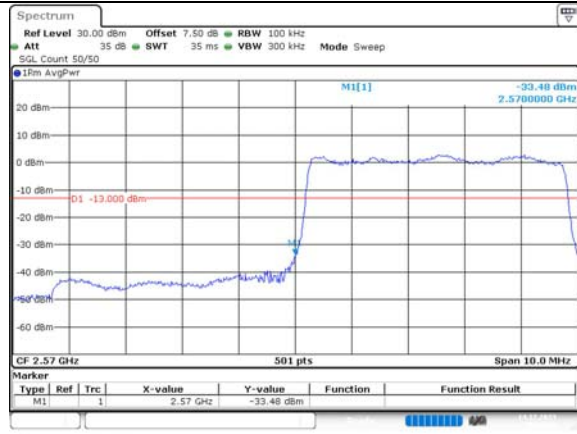
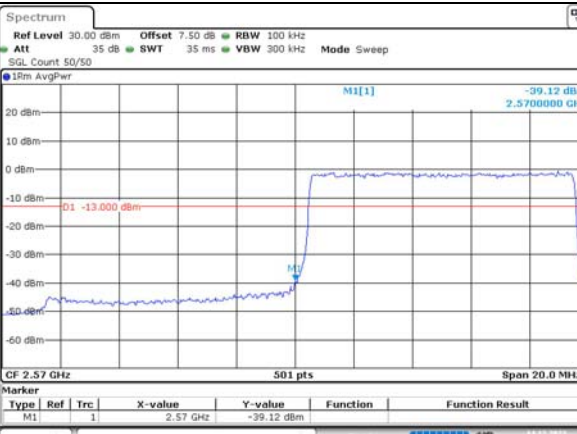
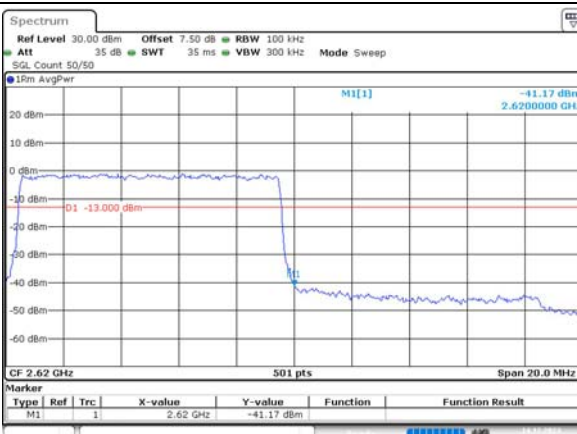
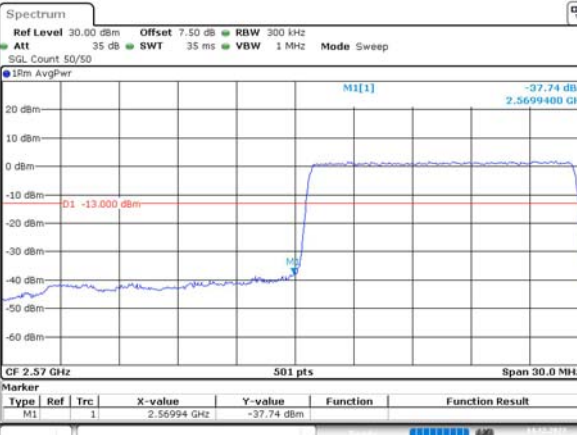
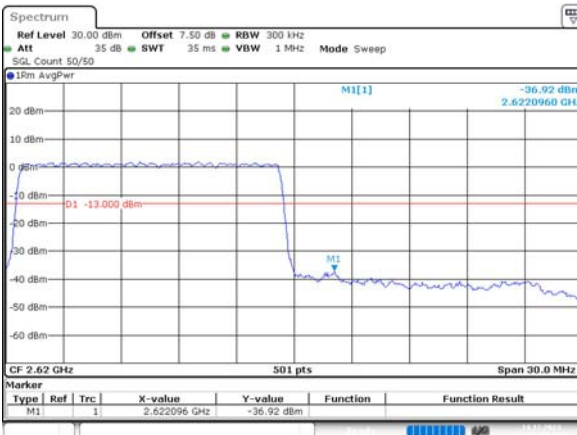
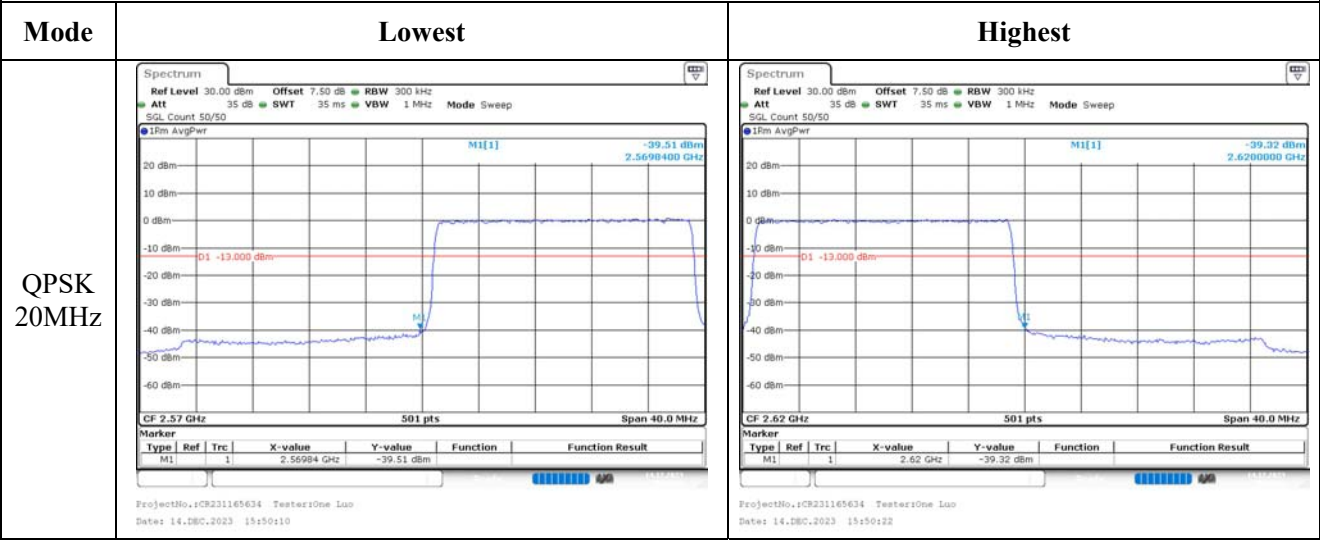


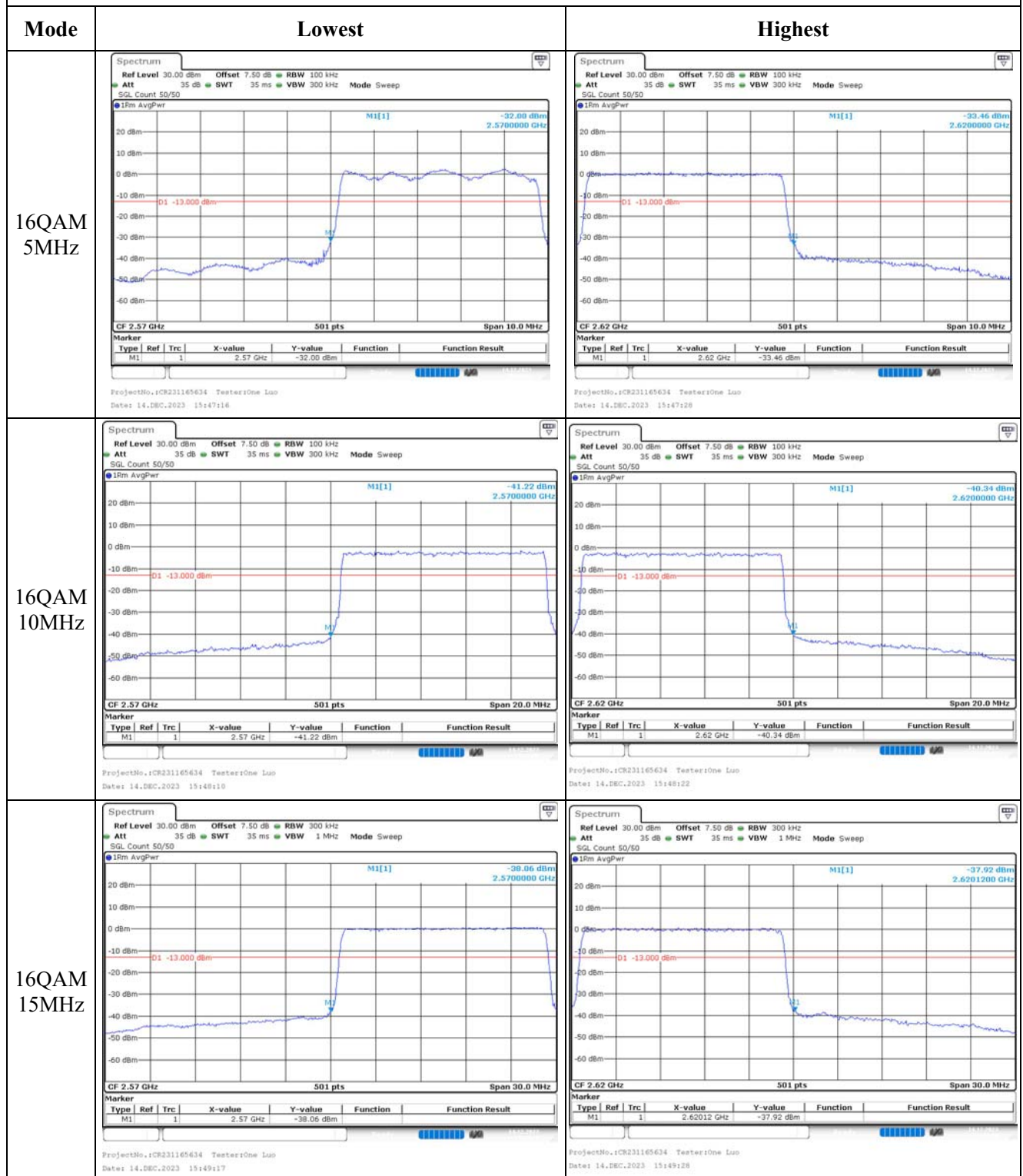
Out of band emission, Band Edge-Full RB

Mode	Lowest	Highest
QPSK 5MHz	 ProjectNo.:CR231165634 TestersOne Luo Date: 14.DEC.2023 15:47:11	 ProjectNo.:CR231165634 TestersOne Luo Date: 14.DEC.2023 15:47:22
QPSK 10MHz	 ProjectNo.:CR231165634 TestersOne Luo Date: 14.DEC.2023 15:48:04	 ProjectNo.:CR231165634 TestersOne Luo Date: 14.DEC.2023 15:48:17
QPSK 15MHz	 ProjectNo.:CR231165634 TestersOne Luo Date: 14.DEC.2023 15:49:11	 ProjectNo.:CR231165634 TestersOne Luo Date: 14.DEC.2023 15:49:23

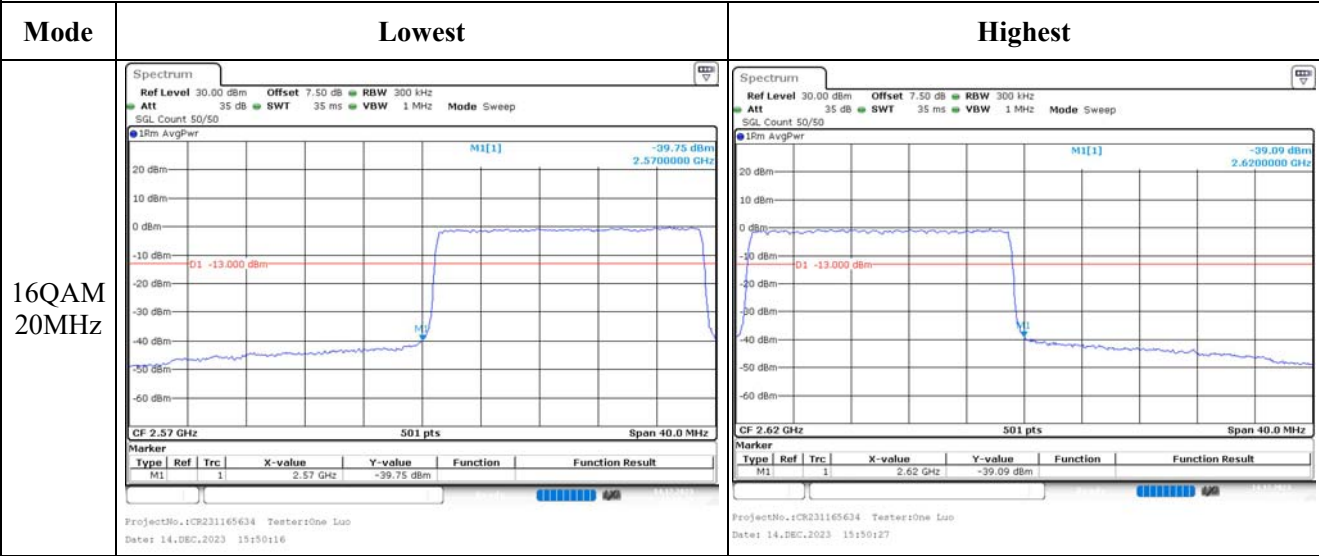
Out of band emission, Band Edge-Full RB



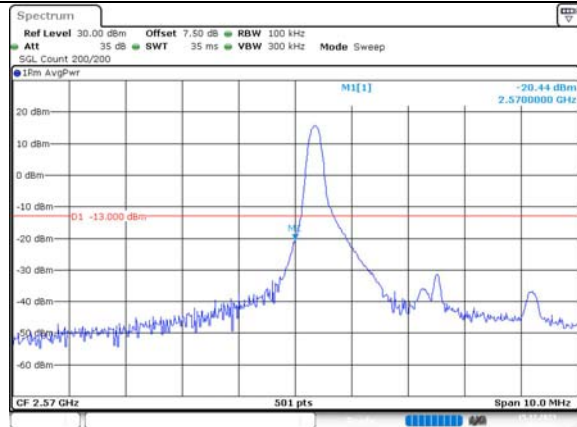
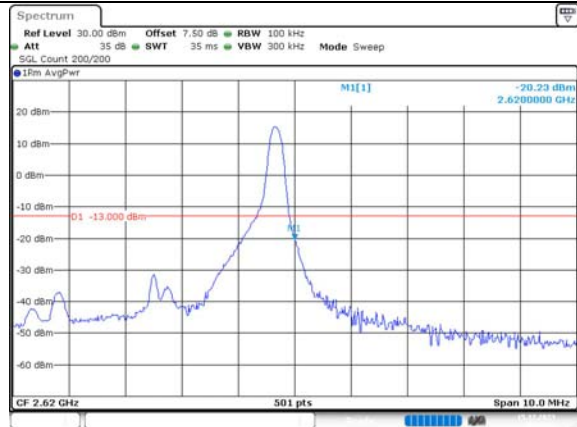
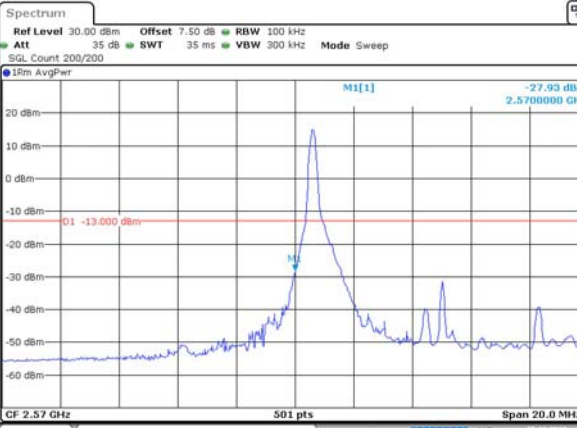
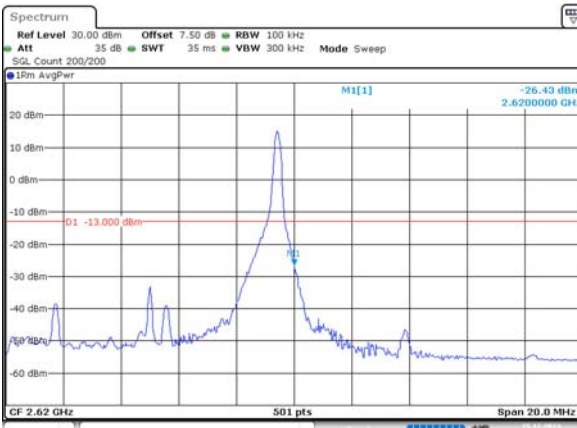
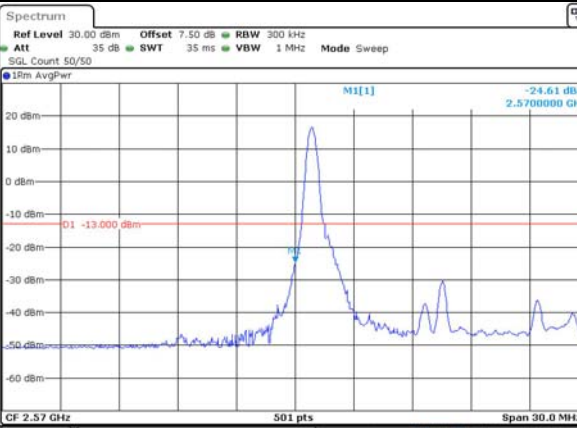
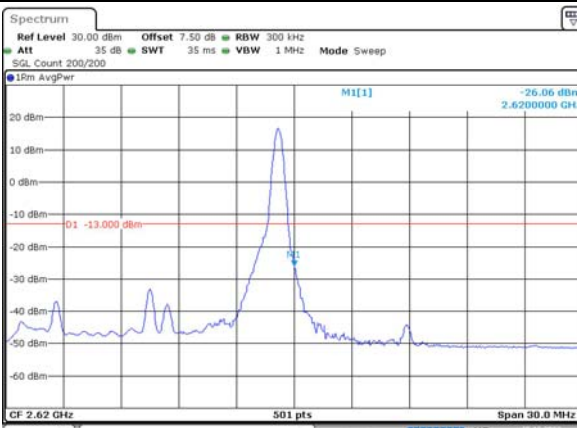
Out of band emission, Band Edge-Full RB

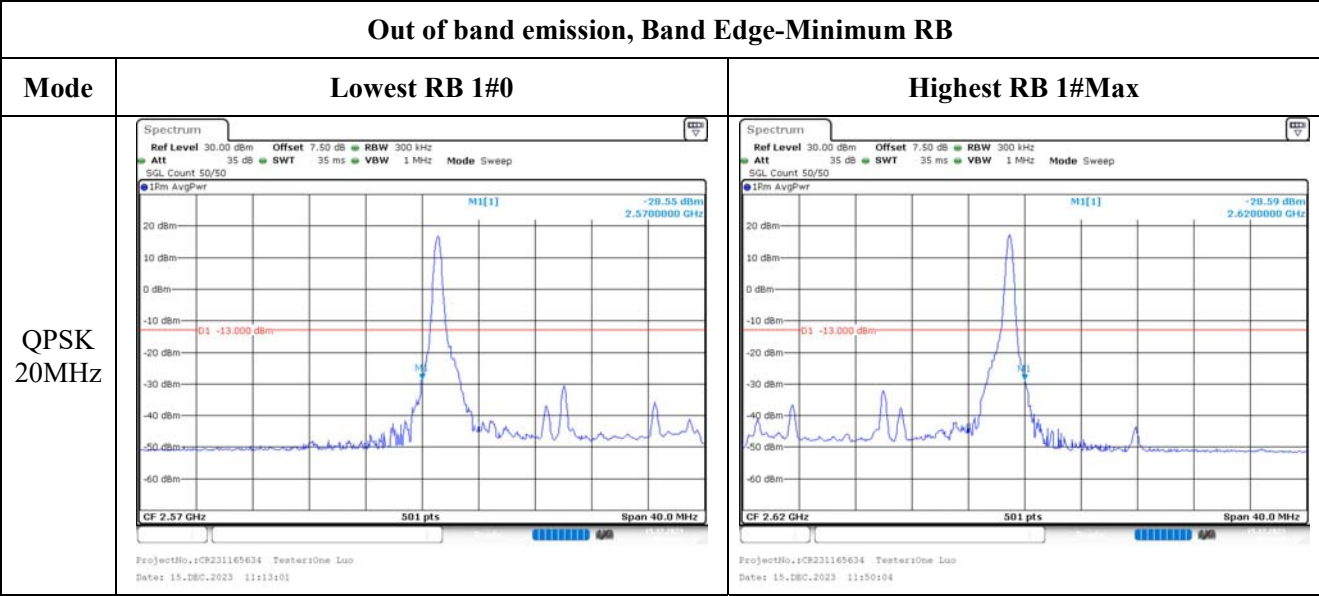


Out of band emission, Band Edge-Full RB

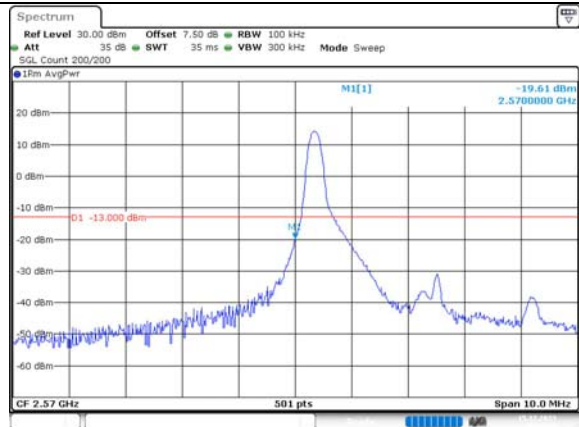
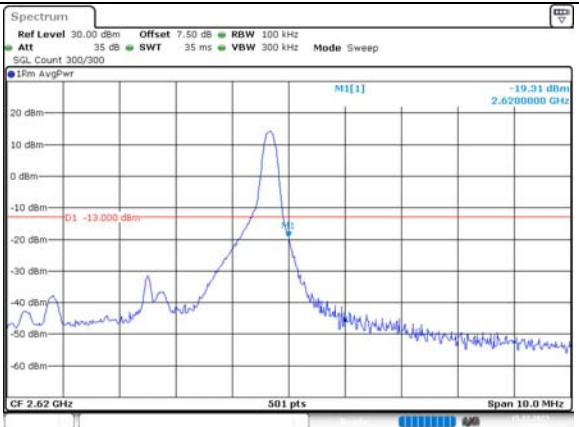
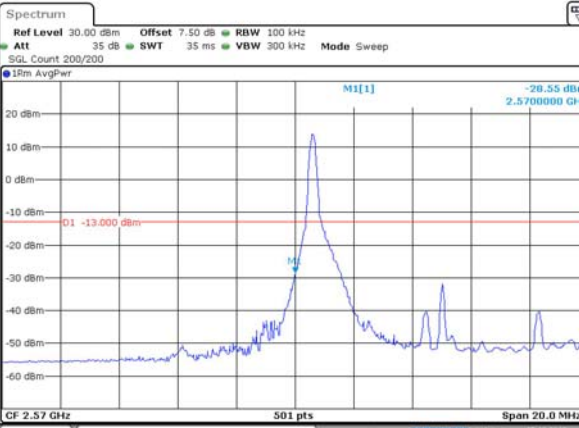
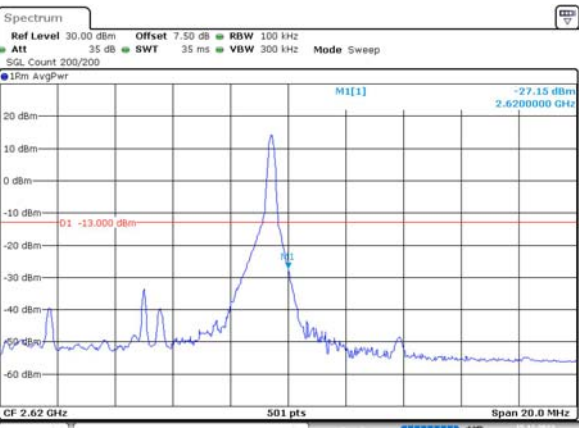
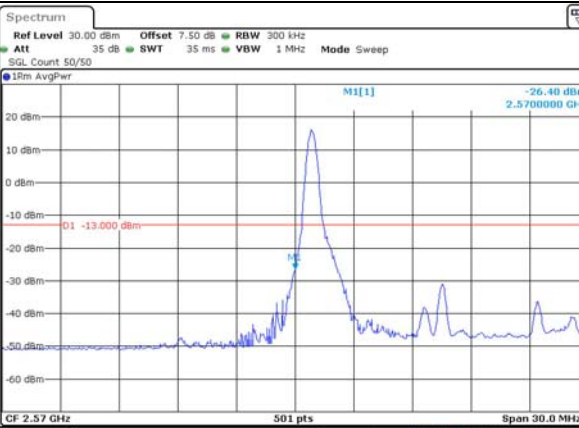
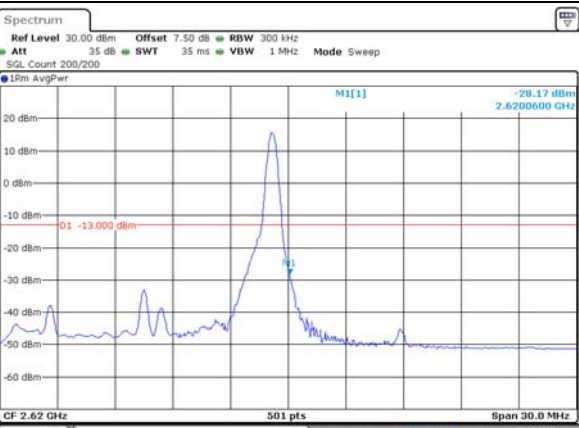


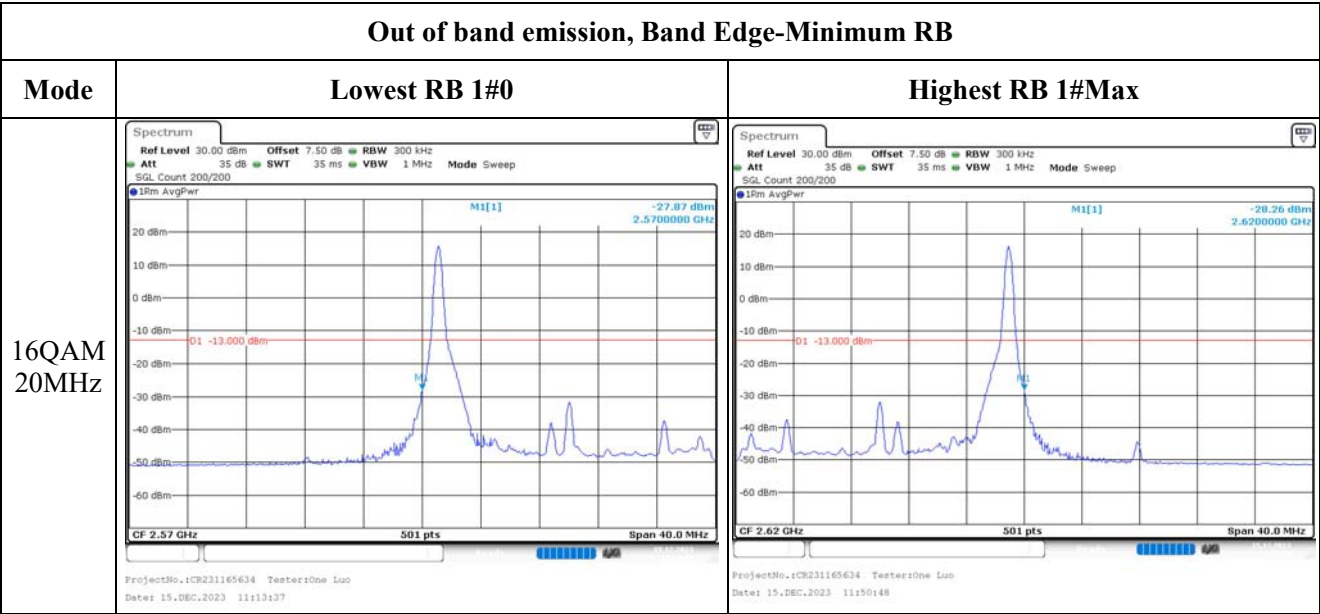
Out of band emission, Band Edge-Minimum RB

Mode	Lowest RB 1#0	Highest RB 1#Max
QPSK 5MHz	 ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 11:07:04	 ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 11:41:40
QPSK 10MHz	 ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 11:09:47	 ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 11:44:28
QPSK 15MHz	 ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 11:11:38	 ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 11:47:45



Out of band emission, Band Edge-Minimum RB

Mode	Lowest RB 1#0	Highest RB 1#Max
16QAM 5MHz	 ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 11:07:35	 ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 11:42:26
16QAM 10MHz	 ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 11:10:24	 ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 11:45:04
16QAM 15MHz	 ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 11:11:52	 ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 11:48:29



4.13 Antenna Port Test Data and Results for LTE Band 40

Serial Number:	2BD2-1	Test Date:	2023/12/13~2024/1/11
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.5~25.6	Relative Humidity: (%)	28~49	ATM Pressure: (kPa)	100.2~101.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/29	2024/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency for Each Mode:

Operation Band	Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
LTE Band 40 Lower 2305-2315MHz	5MHz	2307.5	/	2312.5
	10MHz	/	2310	/
LTE Band 40 Upper 2350-2360MHz	5MHz	2352.5	/	2357.5
	10MHz	/	2355	/

Test Data:

(Note:Uplink Downlink configuration 3 was tested)

RF Output Power**LTE Band 40 Lower:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	21.12	/	21.15	15.85	24
	RB1#13	21.05	/	21.03		
	RB1#24	21.02	/	20.87		
	RB15#0	20.82	/	20.81		
	RB15#10	20.76	/	20.72		
	RB25#0	20.61	/	20.65		
5MHz 16QAM	RB1#0	20.6	/	20.52	15.3	24
	RB1#13	20.43	/	20.37		
	RB1#24	20.25	/	20.31		
	RB15#0	20.25	/	20.15		
	RB15#10	20.12	/	20.1		
	RB25#0	19.94	/	19.96		
5MHz 64QAM	RB1#0	20.32	/	19.69	15.02	24
	RB1#13	20.27	/	19.58		
	RB1#24	20.13	/	19.5		
	RB15#0	20.05	/	19.49		
	RB15#10	19.97	/	19.38		
	RB25#0	19.8	/	19.27		
10MHz QPSK	RB1#0	/	21.08	/	15.78	24
	RB1#25	/	21.06	/		
	RB1#49	/	20.91	/		
	RB25#0	/	20.71	/		
	RB25#25	/	20.56	/		
	RB50#0	/	20.53	/		
10MHz 16QAM	RB1#0	/	20.37	/	15.07	24
	RB1#25	/	20.28	/		
	RB1#49	/	20.09	/		
	RB25#0	/	19.91	/		
	RB25#25	/	19.79	/		
	RB50#0	/	19.78	/		
10MHz 64QAM	RB1#0	/	20.03	/	14.73	24
	RB1#25	/	19.95	/		
	RB1#49	/	19.77	/		
	RB25#0	/	19.75	/		
	RB25#25	/	19.71	/		
	RB50#0	/	19.51	/		

EIRP PSD in 5MHz:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted PSD(dBm/5MHz)			Maximum EIRP PSD (dBm/5MHz)	Limit (dBm/5MHz)
		Lowest Channel	Middle Channel	Highest Channel		
10MHz QPSK	RB1#0	/	21.43	/	16.13	24
	RB1#25	/	21.41	/		
	RB1#49	/	21.18	/		
	RB25#0	/	19.22	/		
	RB25#25	/	19.16	/		
	RB50#0	/	17.61	/		
10MHz 16QAM	RB1#0	/	21.4	/	16.1	24
	RB1#25	/	21.26	/		
	RB1#49	/	21.26	/		
	RB25#0	/	18.49	/		
	RB25#25	/	18.59	/		
	RB50#0	/	16.85	/		

Note:

For 5MHz mode, the channel power is equal to the test result in dBm/5MHz.

EIRP=Conducted Power(dBm) - Lc(dB) + Gr(dBi)

EIRP PSD=Conducted PSD(dBm/5MHz) - Lc(dB) + Gr(dBi)

LTE Band 40 Upper:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	21.13	/	21.03	15.83	24
	RB1#13	21.05	/	20.96		
	RB1#24	21.11	/	21.03		
	RB15#0	19.89	/	19.89		
	RB15#10	19.93	/	19.97		
	RB25#0	19.92	/	19.96		
5MHz 16QAM	RB1#0	20.01	/	20.21	14.95	24
	RB1#13	19.93	/	20.14		
	RB1#24	19.96	/	20.25		
	RB15#0	18.82	/	18.86		
	RB15#10	18.85	/	18.94		
	RB25#0	18.95	/	18.92		
5MHz 64QAM	RB1#0	18.86	/	18.82	13.56	24
	RB1#13	18.84	/	18.80		
	RB1#24	18.75	/	18.70		
	RB15#0	18.64	/	18.55		
	RB15#10	18.53	/	18.41		
	RB25#0	18.36	/	18.31		

10MHz QPSK	RB1#0	/	21.04	/	15.74	24
	RB1#25	/	20.95	/		
	RB1#49	/	20.98	/		
	RB25#0	/	19.89	/		
	RB25#25	/	20.01	/		
	RB50#0	/	19.96	/		
10MHz 16QAM	RB1#0	/	19.92	/	14.62	24
	RB1#25	/	19.86	/		
	RB1#49	/	19.89	/		
	RB25#0	/	18.96	/		
	RB25#25	/	19.04	/		
	RB50#0	/	18.97	/		
10MHz 64QAM	RB1#0	/	20.06	/	14.76	24
	RB1#25	/	20.02	/		
	RB1#49	/	20.01	/		
	RB25#0	/	20	/		
	RB25#25	/	19.91	/		
	RB50#0	/	19.79	/		

EIRP PSD in 5MHz:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted PSD(dBm/5MHz)			Maximum EIRP PSD (dBm/5MHz)	Limit (dBm/5MHz)
		Lowest Channel	Middle Channel	Highest Channel		
10MHz QPSK	RB1#0	/	20.98	/	15.78	24
	RB1#25	/	21.06	/		
	RB1#49	/	21.08	/		
	RB25#0	/	18.91	/		
	RB25#25	/	18.96	/		
	RB50#0	/	17.27	/		
10MHz 16QAM	RB1#0	/	20.69	/	15.39	24
	RB1#25	/	20.55	/		
	RB1#49	/	20.66	/		
	RB25#0	/	18.05	/		
	RB25#25	/	18.21	/		
	RB50#0	/	16.36	/		

Note:

For 5MHz mode, the channel power is equal to the test result in dBm/5MHz.

EIRP=Conducted Power(dBm) - Lc(dB) + Gt(dBi)

EIRP PSD=Conducted PSD(dBm/5MHz) - Lc(dB) + Gt(dBi)

Result:**Pass**

Duty Cycle

Operation Band	Modulation	Bandwidth	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	Limit (%)
LTE Band 40 Lower	QPSK	5M	3.09	9.99	30.93	38
		10M	3.09	9.99	30.93	38
	16QAM	5M	3.09	9.99	30.93	38
		10M	3.09	9.99	30.93	38
LTE Band 40 Upper	QPSK	5M	3.14	10.04	31.27	38
		10M	3.09	9.99	30.93	38
	16QAM	5M	3.09	9.99	30.93	38
		10M	3.14	10.04	31.27	38
					Result:	Pass

Occupied Bandwidth**LTE Band 40 Lower:**

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle channel	High Channel
5MHz QPSK	4.511	/	4.511	5.16	/	4.9
5MHz 16QAM	4.511	/	4.491	5	/	4.98
10MHz QPSK	/	8.942	/	/	9.64	/
10MHz 16QAM	/	8.942	/	/	9.56	/
10MHz 64QAM	/	8.944	/	/	9.58	/

LTE Band 40 Upper:

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle channel	High Channel
5MHz QPSK	4.511	/	4.491	4.92	/	5
5MHz 16QAM	4.491	/	4.491	4.96	/	4.98
10MHz QPSK	/	8.942	/	/	9.68	/
10MHz 16QAM	/	8.942	/	/	9.56	/
10MHz 64QAM	/	8.944	/	/	9.522	/

Note:

The test plots please refer to the Plots of Occupied Bandwidth
64QAM only test with middle channel.

Spurious Emissions at Antenna Terminal

Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.
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Out of band emission, Band Edge

Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.
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Frequency Stability**LTE Band 40 Lower:**

Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2305.208	2305.000	2314.759	2315.000
	-20	3.91	2305.289	2305.000	2314.781	2315.000
	-10	3.91	2305.256	2305.000	2314.762	2315.000
	0	3.91	2305.286	2305.000	2314.786	2315.000
	10	3.91	2305.242	2305.000	2314.743	2315.000
	20	3.91	2305.245	2305.000	2314.756	2315.000
	30	3.91	2305.293	2305.000	2314.758	2315.000
	40	3.91	2305.295	2305.000	2314.738	2315.000
	50	3.91	2305.212	2305.000	2314.722	2315.000
Frequency Stability vs. Voltage	20	3.45	2305.254	2305.000	2314.723	2315.000
	20	4.5	2305.215	2305.000	2314.704	2315.000
Result:					Pass	

Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2305.241	2305.000	2314.754	2315.000
	-20	3.91	2305.214	2305.000	2314.772	2315.000
	-10	3.91	2305.282	2305.000	2314.713	2315.000
	0	3.91	2305.286	2305.000	2314.766	2315.000
	10	3.91	2305.277	2305.000	2314.711	2315.000
	20	3.91	2305.245	2305.000	2314.756	2315.000
	30	3.91	2305.237	2305.000	2314.706	2315.000
	40	3.91	2305.245	2305.000	2314.701	2315.000
	50	3.91	2305.240	2305.000	2314.781	2315.000
Frequency Stability vs. Voltage	20	3.45	2305.204	2305.000	2314.737	2315.000
	20	4.5	2305.221	2305.000	2314.771	2315.000
Result:					Pass	

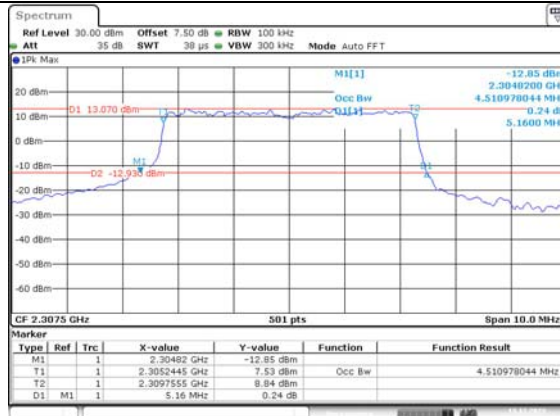
LTE Band 40 Upper:						
Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2350.244	2350.000	2359.705	2360.000
	-20	3.91	2350.300	2350.000	2359.734	2360.000
	-10	3.91	2350.224	2350.000	2359.746	2360.000
	0	3.91	2350.248	2350.000	2359.757	2360.000
	10	3.91	2350.282	2350.000	2359.768	2360.000
	20	3.91	2350.245	2350.000	2359.756	2360.000
	30	3.91	2350.221	2350.000	2359.800	2360.000
	40	3.91	2350.225	2350.000	2359.725	2360.000
	50	3.91	2350.250	2350.000	2359.768	2360.000
Frequency Stability vs. Voltage	20	3.45	2350.247	2350.000	2359.761	2360.000
	20	4.5	2350.300	2350.000	2359.717	2360.000
Result:					Pass	

Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2350.215	2350.000	2359.754	2360.000
	-20	3.91	2350.215	2350.000	2359.725	2360.000
	-10	3.91	2350.211	2350.000	2359.744	2360.000
	0	3.91	2350.283	2350.000	2359.784	2360.000
	10	3.91	2350.219	2350.000	2359.760	2360.000
	20	3.91	2350.265	2350.000	2359.756	2360.000
	30	3.91	2350.275	2350.000	2359.797	2360.000
	40	3.91	2350.286	2350.000	2359.776	2360.000
	50	3.91	2350.289	2350.000	2359.746	2360.000
Frequency Stability vs. Voltage	20	3.45	2350.277	2350.000	2359.726	2360.000
	20	4.5	2350.230	2350.000	2359.727	2360.000
Result:					Pass	

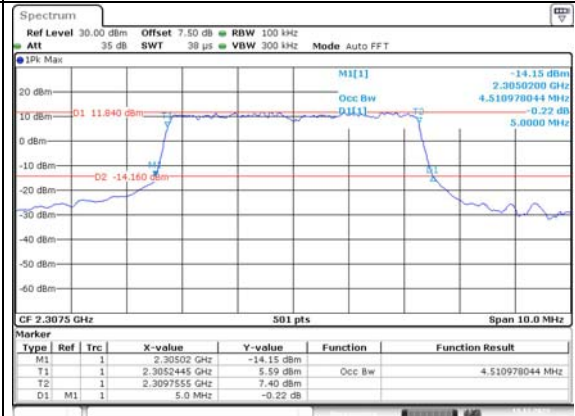
Test Plots (Note: The 7.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):
2305-2315 MHz:

Occupied Bandwidth**Channel****5MHz Bandwidth QPSK****5MHz Bandwidth 16QAM**

Lowest

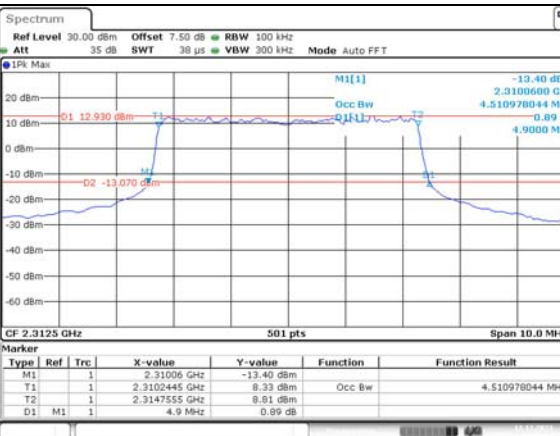


ProjectNo.:CR231165634 Tester:One Luo
Date: 13, DEC, 2023 15:04:05

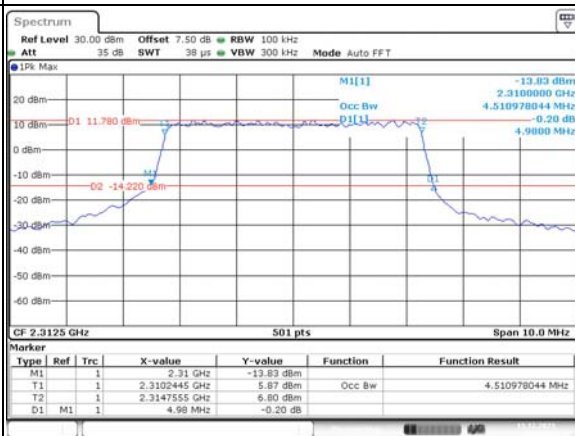


ProjectNo.:CR231165634 Tester:One Luo
Date: 13, DEC, 2023 15:04:25

Highest



ProjectNo.:CR231165634 Tester:One Luo
Date: 13, DEC, 2023 15:05:28



ProjectNo.:CR231165634 Tester:One Luo
Date: 13, DEC, 2023 15:05:54

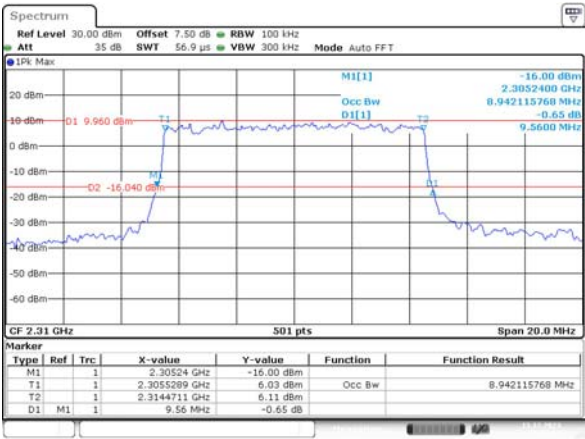
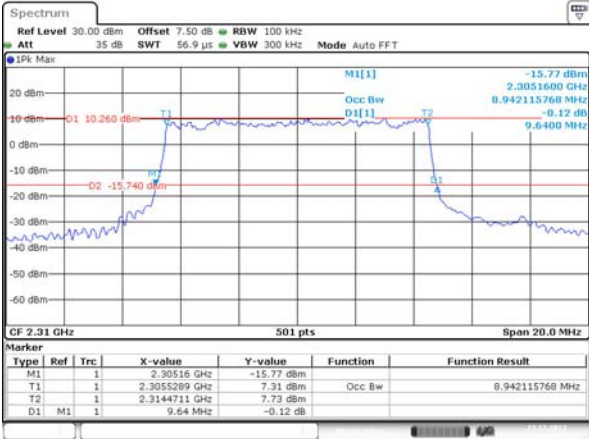
Occupied Bandwidth

Channel

10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

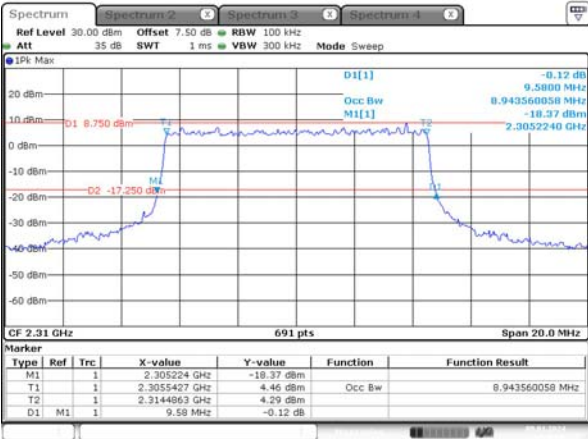
Middle



Channel

Middle

10MHz
Bandwidth
64QAM



2350-2360 MHz:

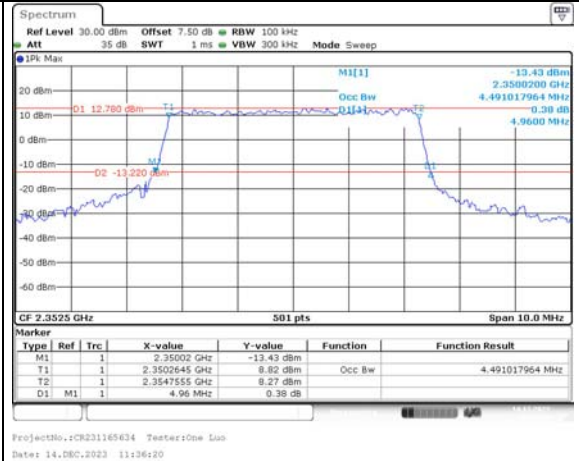
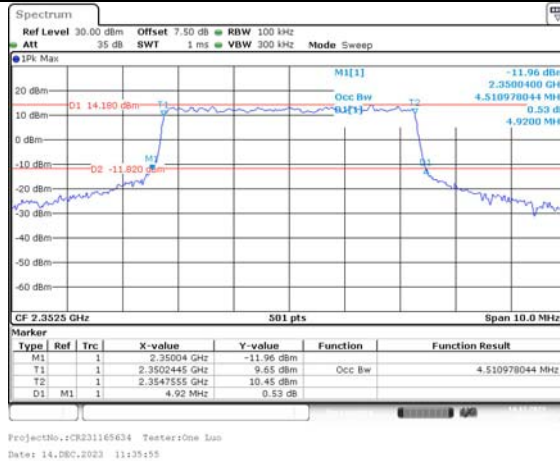
Occupied Bandwidth

Channel

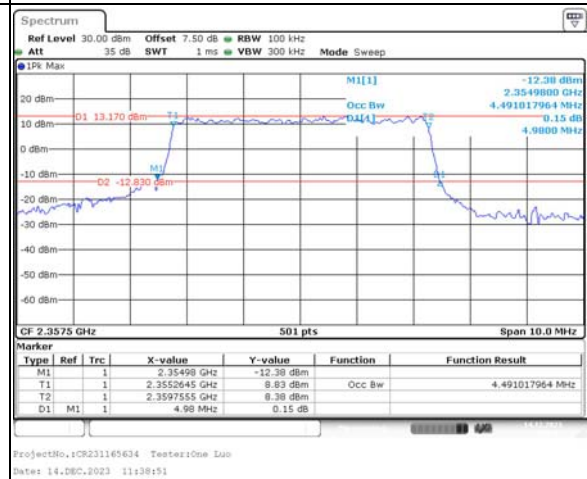
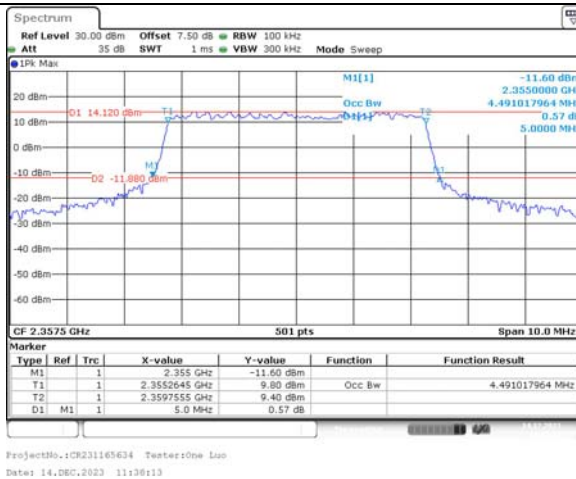
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

Lowest



Highest



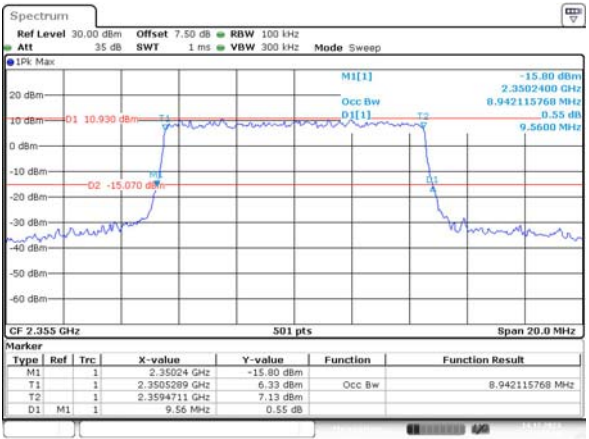
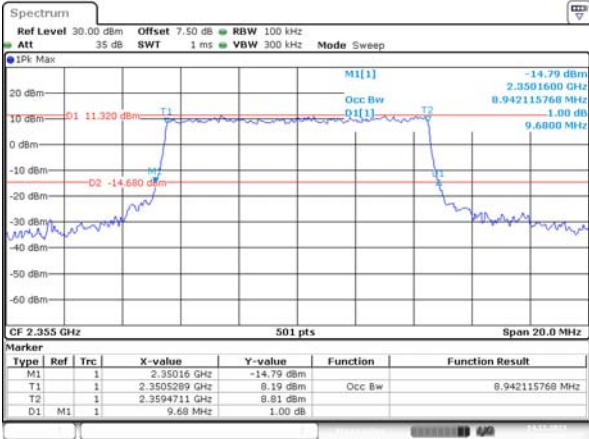
Occupied Bandwidth

Channel

10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

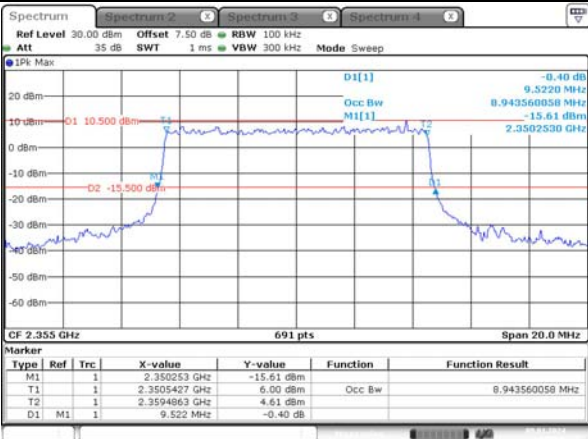
Middle



Channel

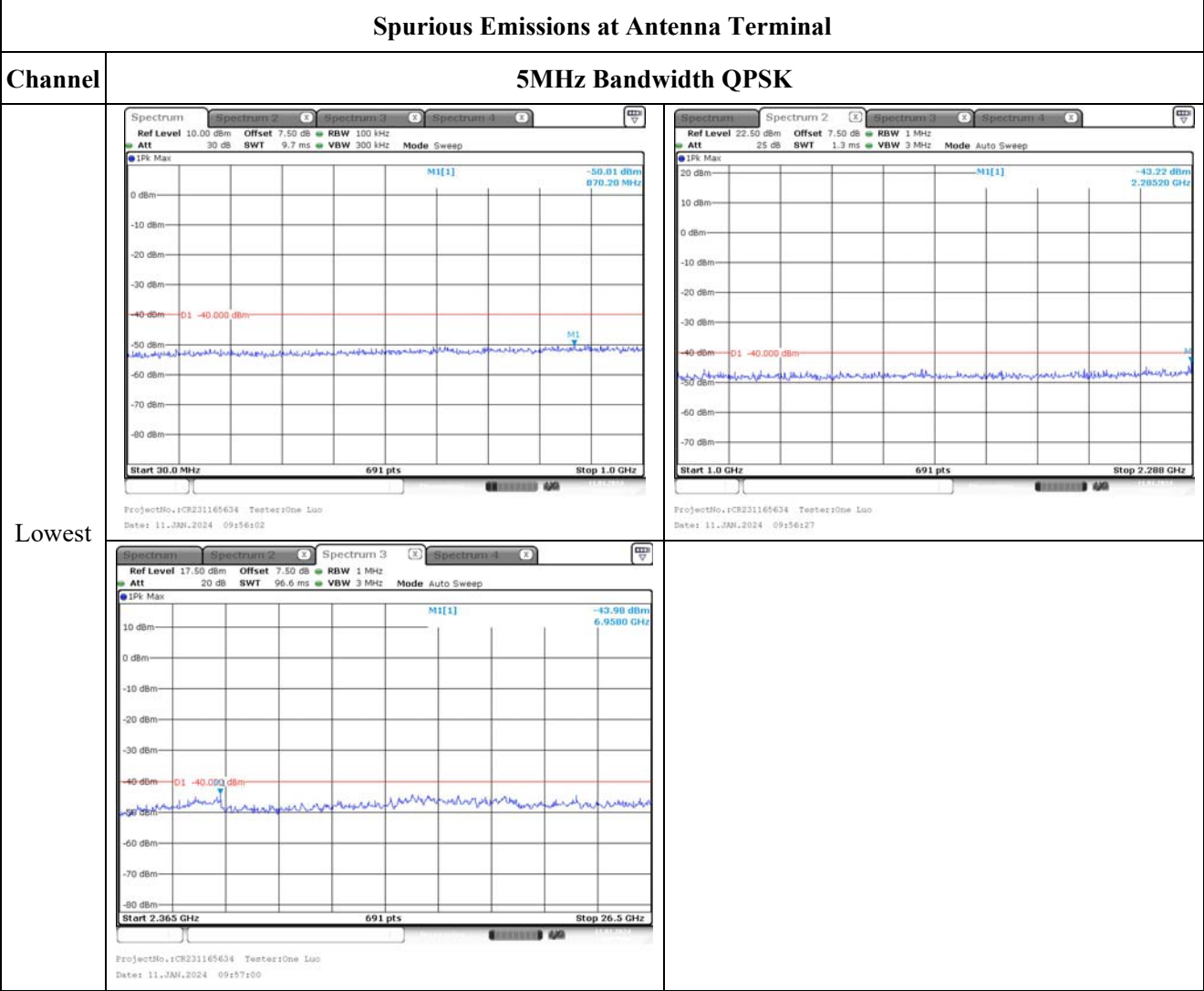
Middle

10MHz
Bandwidth
64QAM



2305-2315 MHz:

Note: The test was performed with RB 1#0

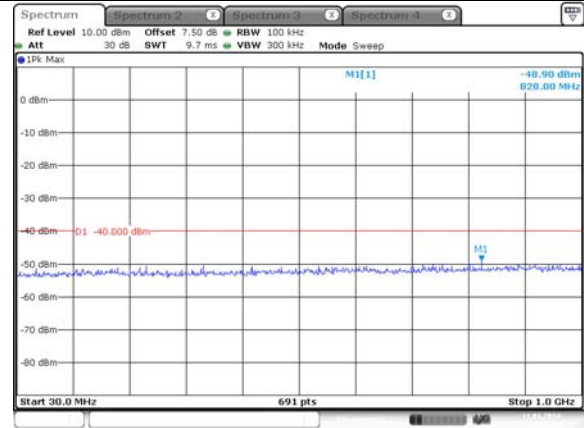


Spurious Emissions at Antenna Terminal

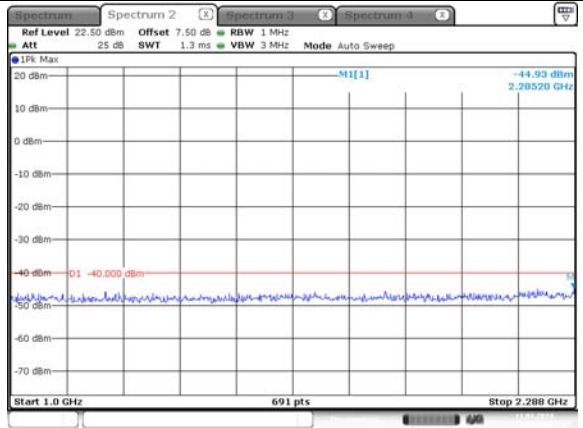
Channel

5MHz Bandwidth QPSK

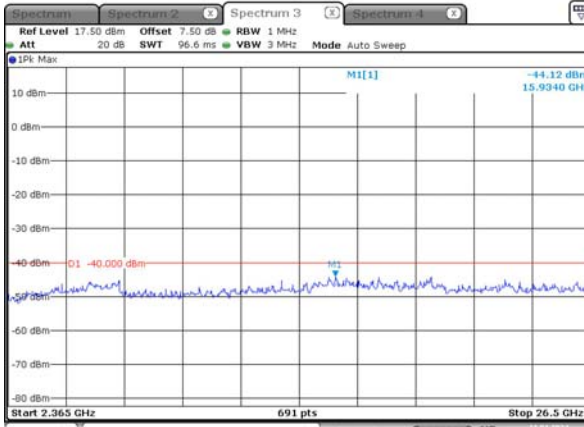
Middle



ProjectNo.:CR231165634 TestersOne Luo
Date: 11.JAN.2024 09:58:03



ProjectNo.:CR231165634 TestersOne Luo
Date: 11.JAN.2024 09:58:27



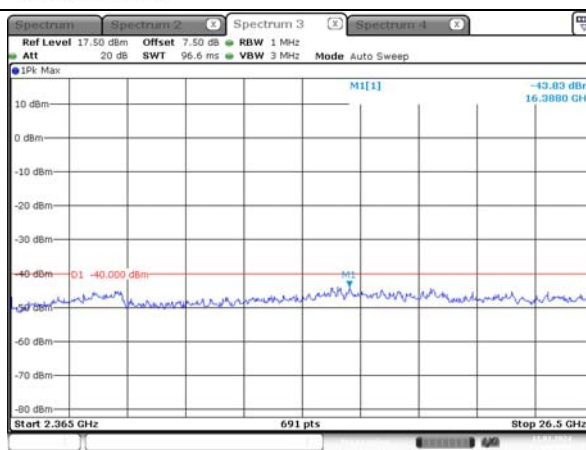
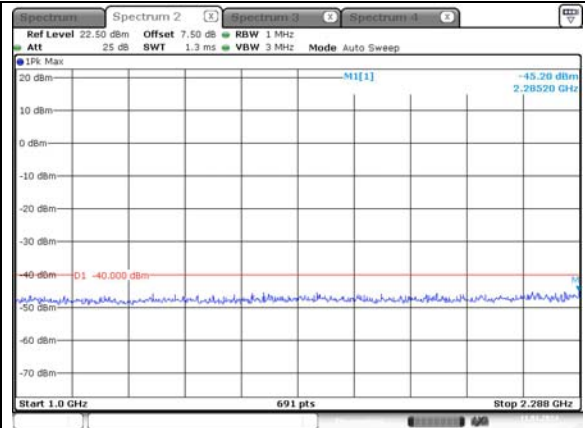
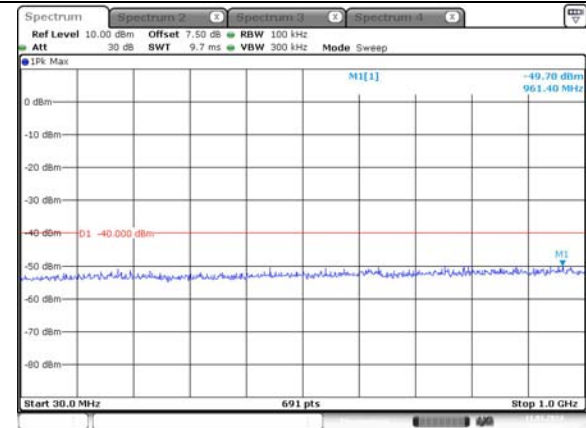
ProjectNo.:CR231165634 TestersOne Luo
Date: 11.JAN.2024 09:58:55

Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK

Highest

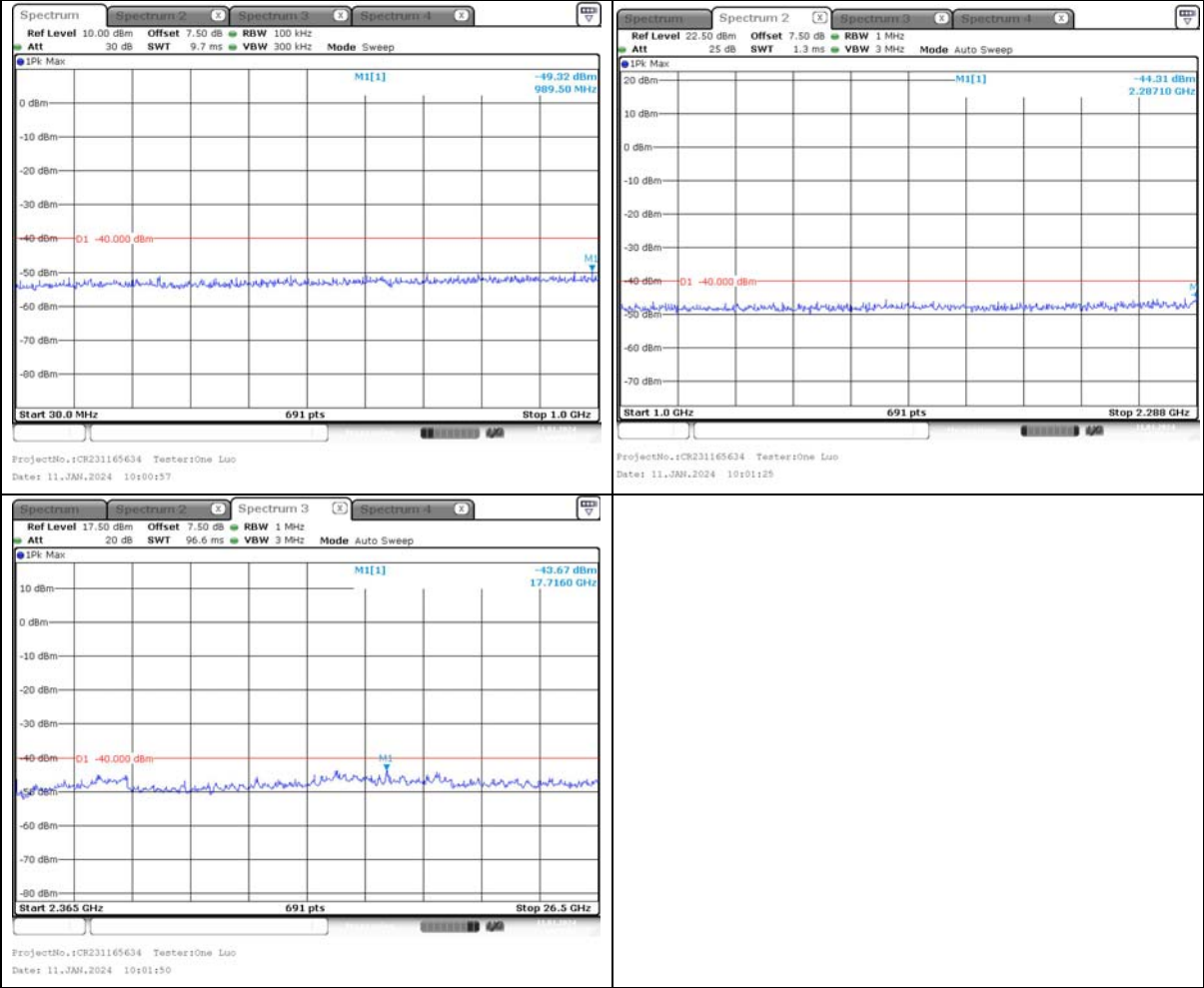


Spurious Emissions at Antenna Terminal

Channel

10MHz Bandwidth QPSK

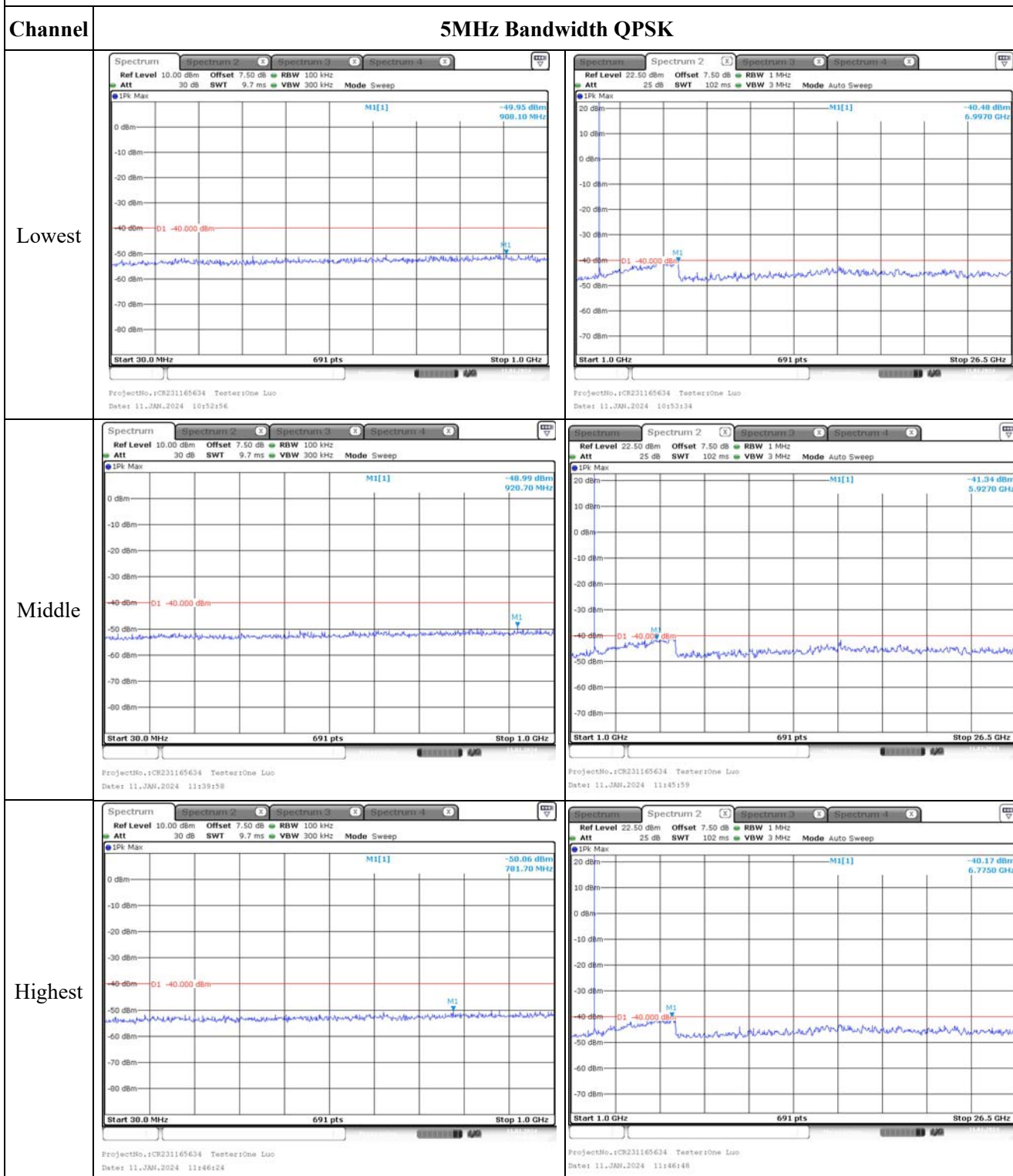
Middle



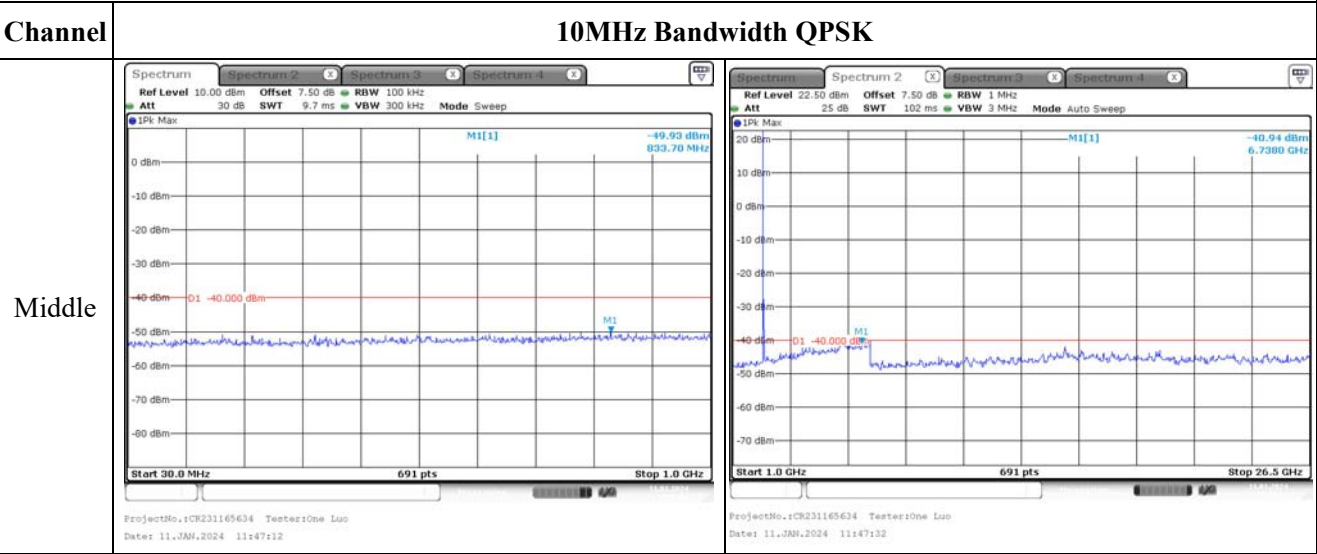
2350-2360 MHz:

Note: The test was performed with RB 1#0

Spurious Emissions at Antenna Terminal

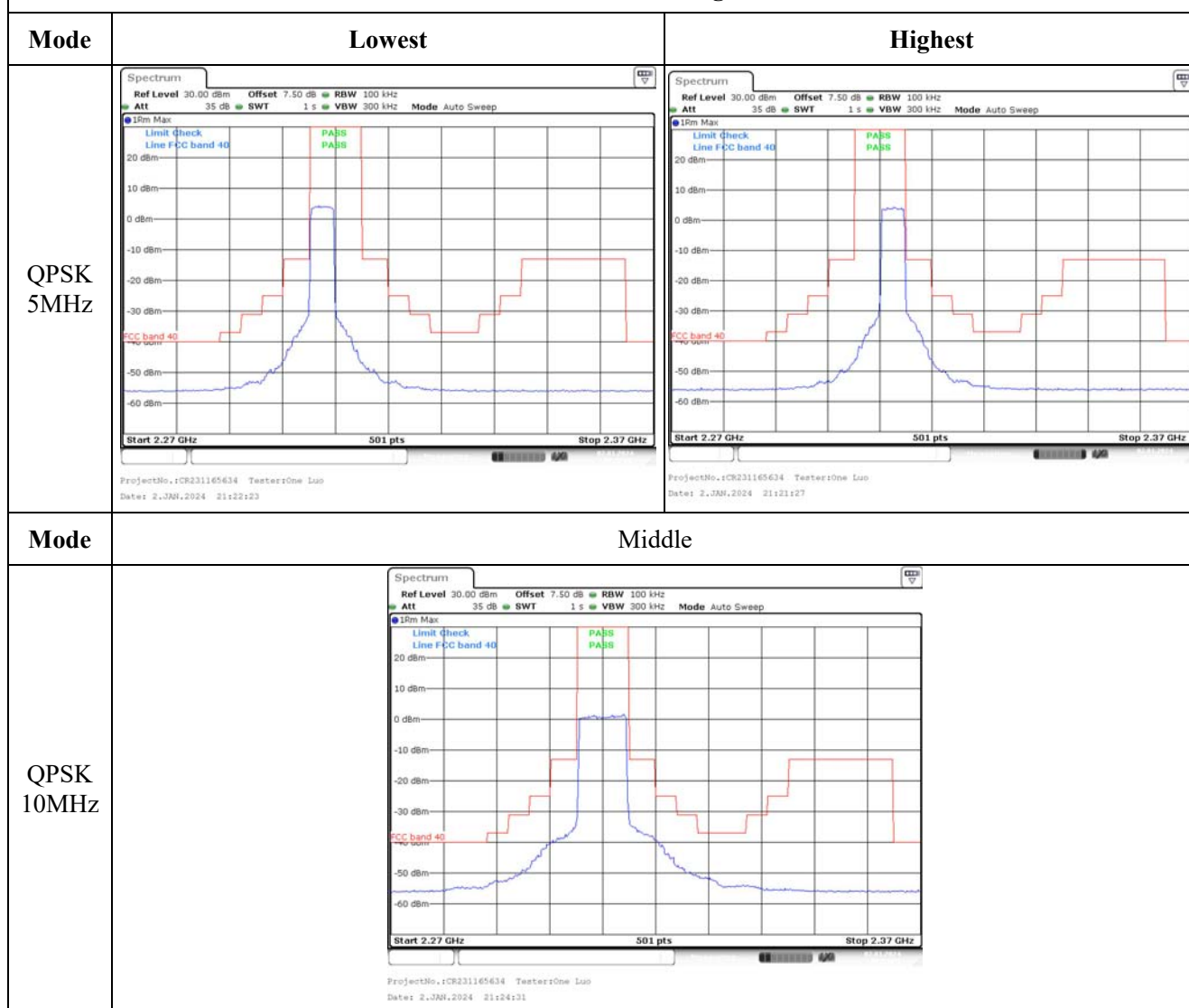


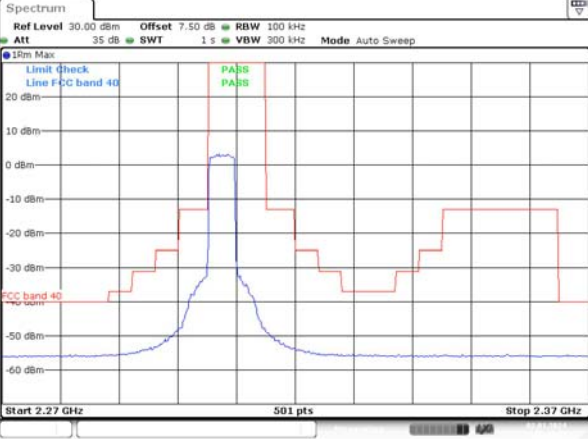
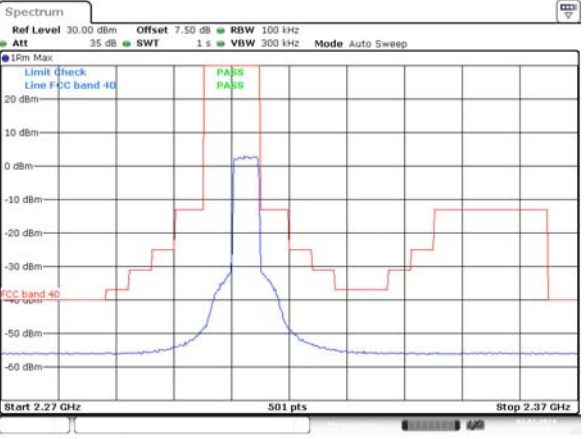
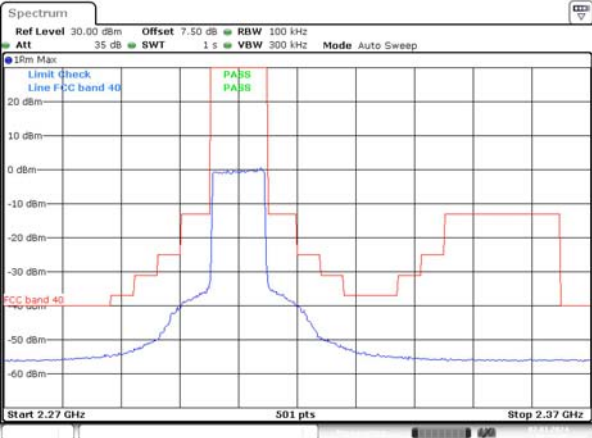
Spurious Emissions at Antenna Terminal



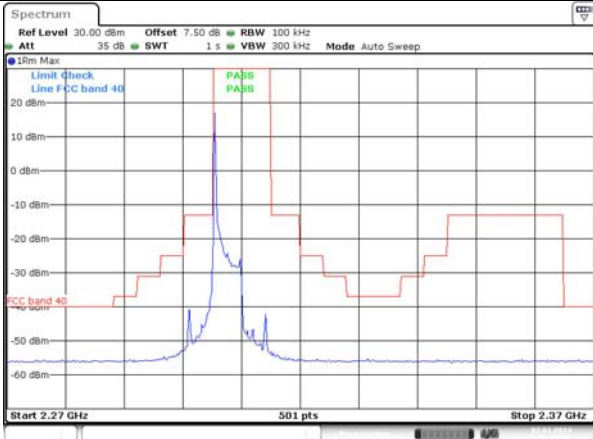
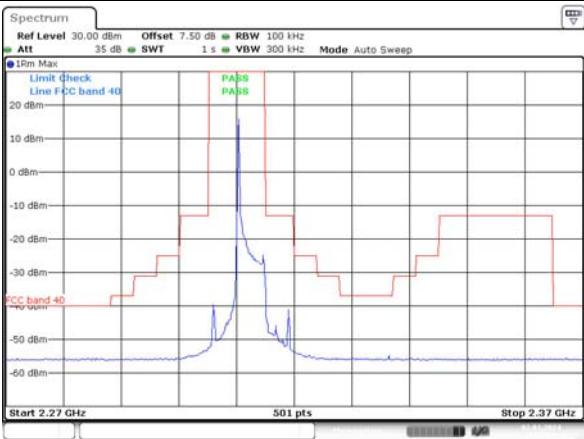
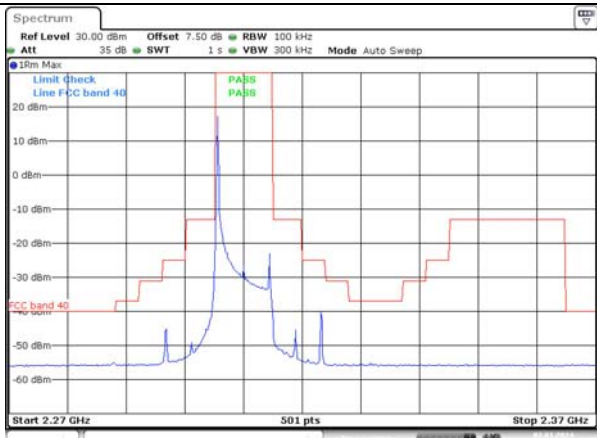
2305-2315 MHz:

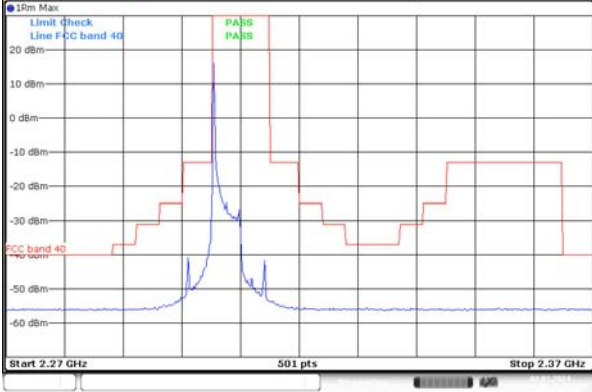
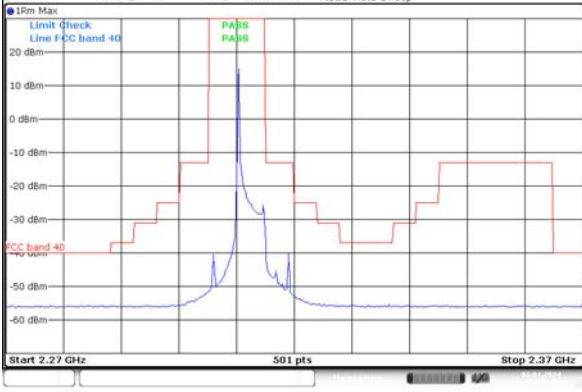
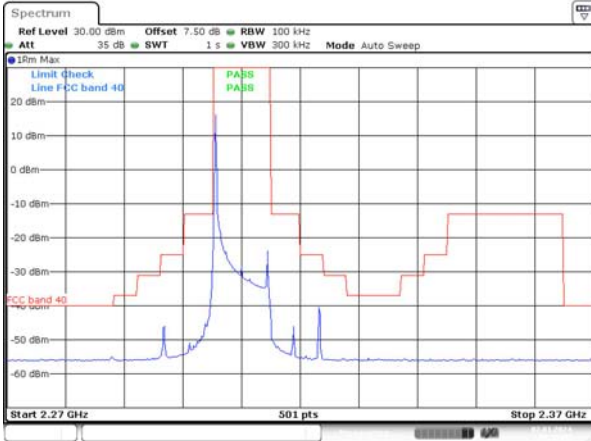
Out of band emission, Band Edge- Full RB



Out of band emission, Band Edge- Full RB		
Mode	Lowest	Highest
16QAM 5MHz	 ProjectNo.:CR231165634 TestersOne Luo Date: 2.JAN.2024 21:23:33	 ProjectNo.:CR231165634 TestersOne Luo Date: 2.JAN.2024 21:20:57
Mode	Middle	
16QAM 10MHz	 ProjectNo.:CR231165634 TestersOne Luo Date: 2.JAN.2024 21:25:06	

2305-2315 MHz:

Out of band emission, Band Edge-Minimum RB		
Mode	Lowest RB 1#0	Highest RB 1#Max
QPSK 5MHz	 ProjectNo.:CR231165634 TestersOne Luo Date: 2,JAN,2024 21:09:58	 ProjectNo.:CR231165634 TestersOne Luo Date: 2,JAN,2024 21:08:55
Mode	Middle RB 1#Max	
QPSK 10MHz	 ProjectNo.:CR231165634 TestersOne Luo Date: 2,JAN,2024 21:14:27	

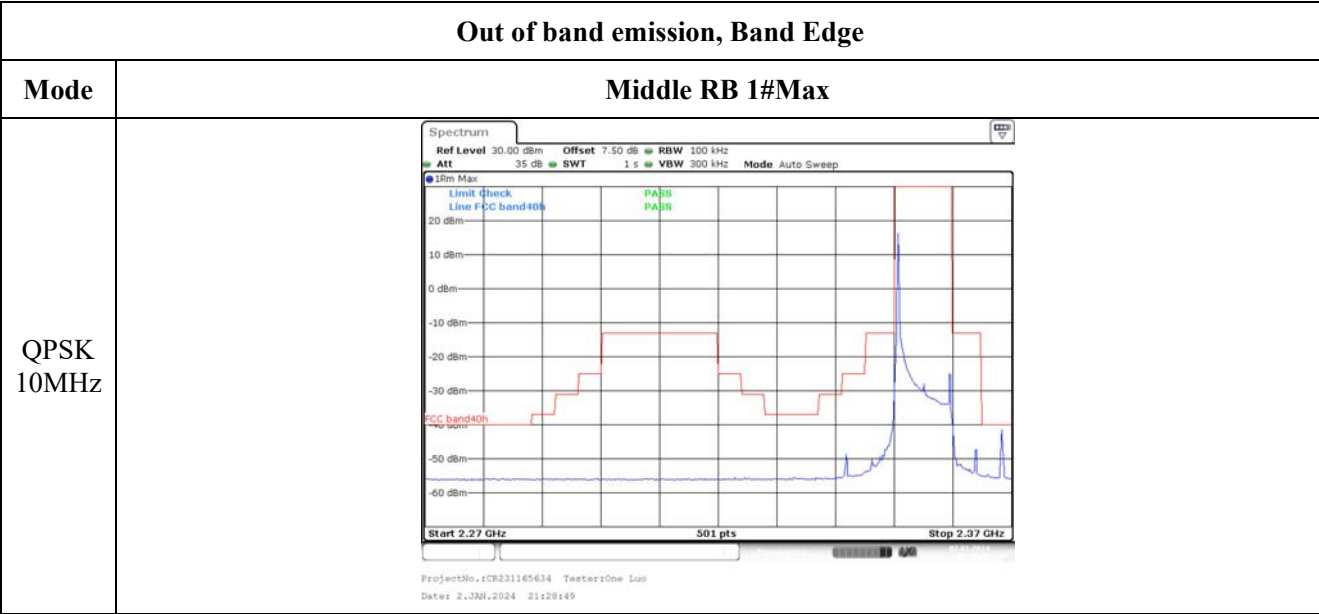
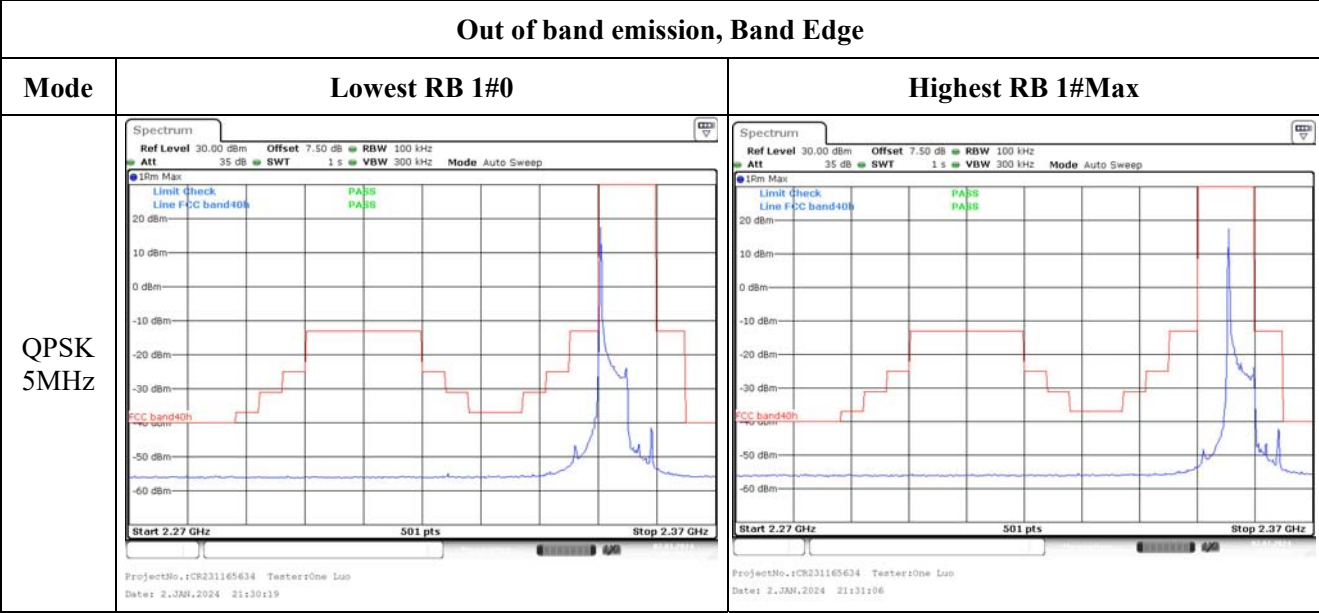
Out of band emission, Band Edge-Minimum RB		
Mode	Lowest RB 1#0	Highest RB 1#Max
16QAM 5MHz	Spectrum Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 1 s VBW 300 kHz Mode Auto Sweep  ProjectNo.:CR231165634 TestersOne Luo Date: 2.JAN.2024 21:11:22	Spectrum Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 1 s VBW 300 kHz Mode Auto Sweep  ProjectNo.:CR231165634 TestersOne Luo Date: 2.JAN.2024 21:12:04
Mode	Middle RB 1#Max	
16QAM 10MHz	Spectrum Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 1 s VBW 300 kHz Mode Auto Sweep  ProjectNo.:CR231165634 TestersOne Luo Date: 2.JAN.2024 21:15:07	

2350-2360 MHz:

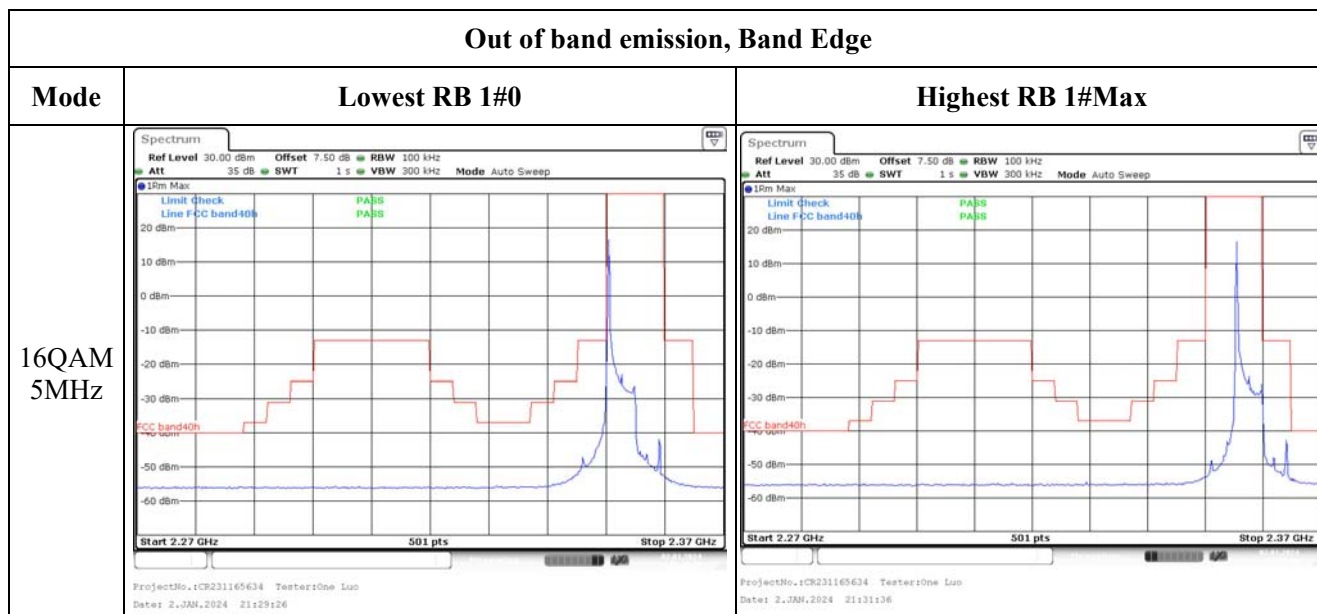
Out of band emission, Band Edge- Full RB		
Mode	Lowest	Highest
QPSK 5MHz		
Mode	Middle	
QPSK 10MHz		

Out of band emission, Band Edge- Full RB		
Mode	Lowest	Highest
16QAM 5MHz		
	ProjectNo.:CR231165634 TestersOne Luo Date: 2.JAN.2024 21:40:13	ProjectNo.:CR231165634 TestersOne Luo Date: 2.JAN.2024 21:42:02
Mode	Middle	
16QAM 10MHz		
	ProjectNo.:CR231165634 TestersOne Luo Date: 2.JAN.2024 21:37:54	

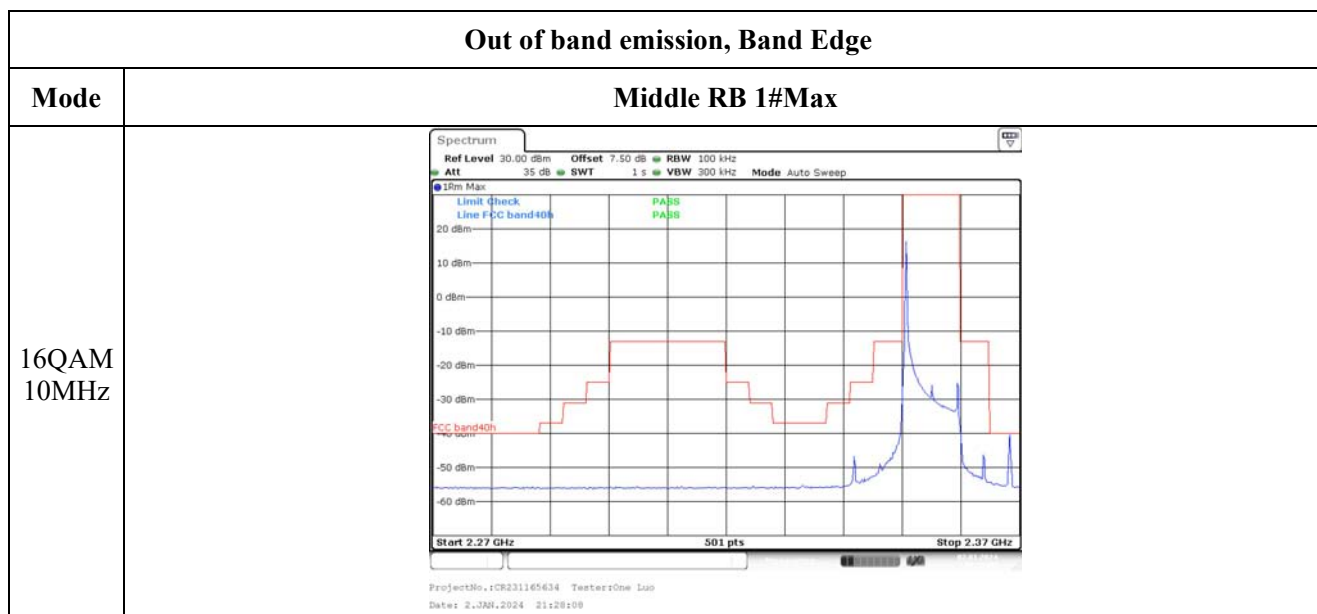
Test Plots for Out of band emission, Band Edge:
Note: The test is performed in 1RB mode.
2350-2360 MHz:



Out of band emission, Band Edge



Out of band emission, Band Edge



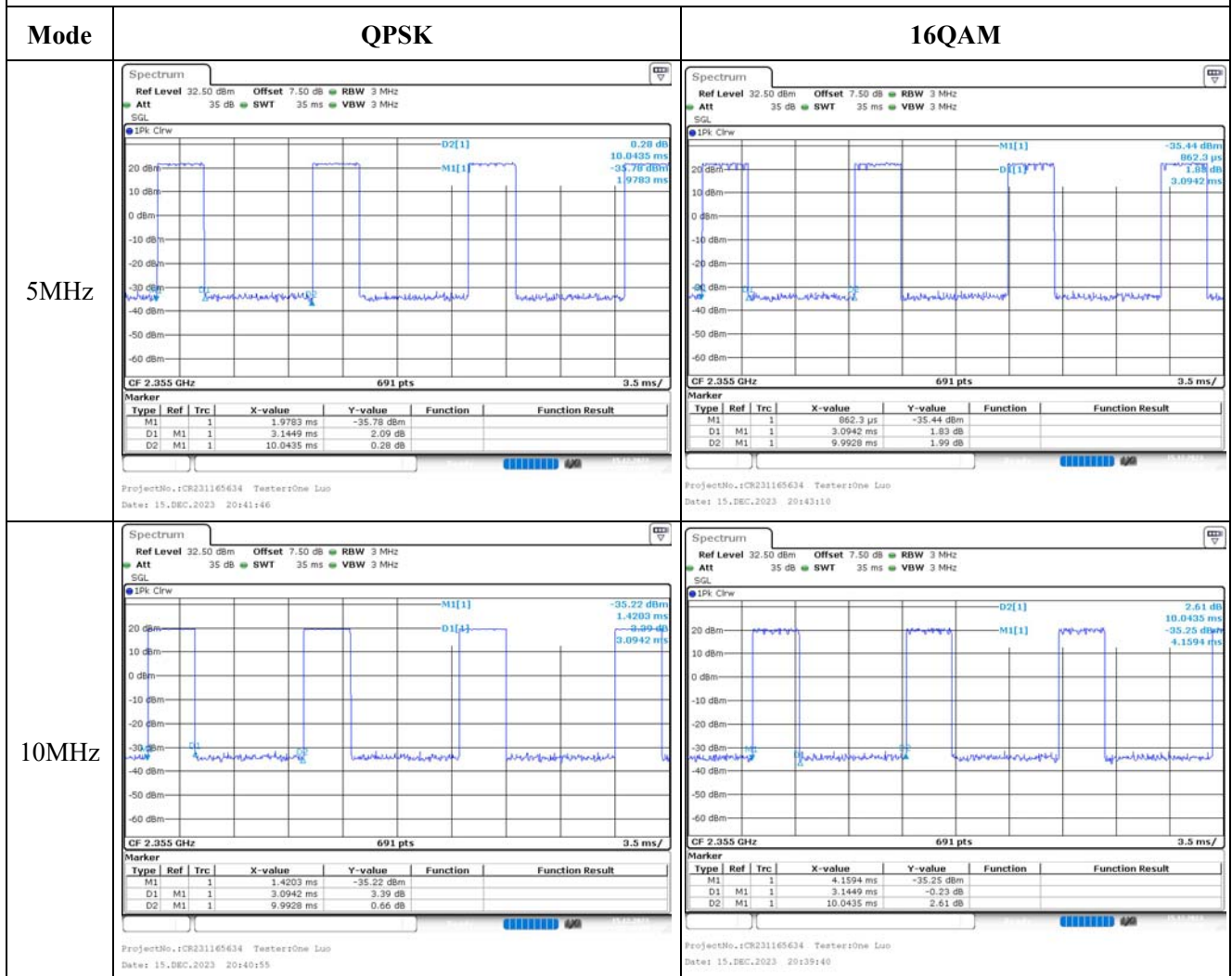
2305-2315 MHz:

Duty cycle



2350-2360 MHz:

Duty cycle



4.14 Antenna Port Test Data and Results for LTE Band 41

Serial Number:	2BD2-1	Test Date:	2023/12/13~2024/1/8
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	20.3~25.6	Relative Humidity: (%)	37~52	ATM Pressure: (kPa)	100.2~101.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/29	2024/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency for Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	2498.5	2593	2687.5
10MHz	2501	2593	2685
15MHz	2503.5	2593	2682.5
20MHz	2506	2593	2680

Test Data:

RF Output Power						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	22.22	22.16	21.87	16.85	33
	RB1#13	22.21	22.11	21.81		
	RB1#24	22.25	22.14	21.84		
	RB15#0	21.18	21.05	20.68		
	RB15#10	21.17	21.03	20.63		
	RB25#0	21.18	21.06	20.66		
5MHz 16QAM	RB1#0	21.31	21.34	20.73	15.96	33
	RB1#13	21.29	21.3	20.66		
	RB1#24	21.33	21.36	20.7		
	RB15#0	20.21	20.03	19.6		
	RB15#10	20.18	20.04	19.57		
	RB25#0	20.23	20.03	19.67		
5MHz 64QAM	RB1#0	20.78	21.12	20.83	15.72	33
	RB1#13	20.71	20.68	20.99		
	RB1#24	20.59	20.7	20.87		
	RB15#0	20.42	20.66	20.96		
	RB15#10	20.33	20.64	20.61		
	RB25#0	20.3	20.43	20.57		
10MHz QPSK	RB1#0	22.27	22.13	21.76	16.87	33
	RB1#25	22.25	22.08	21.74		
	RB1#49	22.19	22.1	21.74		
	RB25#0	21.2	21.09	20.68		
	RB25#25	21.11	21.06	20.67		
	RB50#0	21.18	21.07	20.72		
10MHz 16QAM	RB1#0	21.47	21.05	20.91	16.07	33
	RB1#25	21.43	20.99	20.87		
	RB1#49	21.38	21.02	20.87		
	RB25#0	20.17	20.14	19.72		
	RB25#25	20.14	20.13	19.71		
	RB50#0	20.11	20.07	19.7		
10MHz 64QAM	RB1#0	21.71	21.99	22.16	16.76	33
	RB1#25	21.66	21.84	21.8		
	RB1#49	21.51	21.7	21.71		
	RB25#0	21.46	21.56	21.52		
	RB25#25	21.37	21.66	21.58		
	RB50#0	21.2	21.24	21.57		

15MHz QPSK	RB1#0	22.26	22.28	21.89	16.88	33
	RB1#38	22.17	22.2	21.74		
	RB1#74	22.19	22.18	21.71		
	RB36#0	21.2	21.08	20.73		
	RB36#39	21.1	21.13	20.69		
	RB75#0	21.2	21.14	20.76		
15MHz 16QAM	RB1#0	21.27	21.4	21.07	16	33
	RB1#38	21.13	21.32	20.94		
	RB1#74	21.13	21.31	20.92		
	RB36#0	20.1	20.21	19.79		
	RB36#39	20.13	20.17	19.74		
	RB75#0	20.18	20.11	19.66		
15MHz 64QAM	RB1#0	21.2	21.16	21.32	16.13	33
	RB1#38	21.02	21.2	21.19		
	RB1#74	20.98	21.44	21.53		
	RB36#0	20.91	21.33	21.19		
	RB36#39	20.78	20.98	20.8		
	RB75#0	20.66	21.1	21.19		
20MHz QPSK	RB1#0	22.31	22.28	21.92	16.91	33
	RB1#50	22.2	22.17	21.74		
	RB1#99	22.25	22.2	21.76		
	RB50#0	21.29	21.16	20.84		
	RB50#50	21.2	21.22	20.76		
	RB100#0	21.26	21.21	20.85		
20MHz 16QAM	RB1#0	21.28	21.61	21.04	16.21	33
	RB1#50	21.2	21.52	20.8		
	RB1#99	21.24	21.53	20.83		
	RB50#0	20.28	20.12	19.83		
	RB50#50	20.19	20.18	19.74		
	RB100#0	20.22	20.14	19.79		
20MHz 64QAM	RB1#0	20.13	20.56	20.18	15.16	33
	RB1#50	20.04	20.16	20.21		
	RB1#99	19.86	20.16	20.11		
	RB50#0	19.67	20.2	20.02		
	RB50#50	19.65	20	20.01		
	RB100#0	19.58	19.83	19.95		
Note: EIRP=Conducted Power(dBm) - Lc(dB) + G _T (dBi)					Result:	Pass

Peak-to-average Ratio(PAR)					
Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	8.2	8.09	8.84	13
	RB100#0	8.26	8.12	8.41	13
20MHz 16QAM	RB1#0	8.96	8.52	9.57	13
	RB100#0	9.88	9.77	9.97	13
Result:					Pass

Occupied Bandwidth						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
5MHz QPSK	4.511	4.511	4.491	4.98	4.9	5.06
5MHz 16QAM	4.511	4.491	4.511	5.06	4.96	4.96
5MHz 64QAM	/	4.501	/	/	5.036	/
10MHz QPSK	8.942	8.942	8.942	9.64	9.64	9.72
10MHz 16QAM	8.942	8.942	8.942	9.64	9.56	9.52
10MHz 64QAM	/	8.973	/	/	9.594	/
15MHz QPSK	13.473	13.473	13.413	14.7	14.82	14.76
15MHz 16QAM	13.533	13.533	13.533	14.76	14.82	14.76
15MHz 64QAM	/	13.502	/	/	14.848	/
20MHz QPSK	17.884	17.964	17.884	19.36	19.2	19.52
20MHz 16QAM	17.884	17.884	17.884	19.28	19.36	19.28
20MHz 64QAM	/	17.887	/	/	19.392	/
Note: The test plots please refer to the Plots of Occupied Bandwidth 64QAM only test with middle channel.						

Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2497.004	2496.00	2688.913	2690
	-20	3.91	2497.011	2496.00	2688.984	2690
	-10	3.91	2497.037	2496.00	2688.998	2690
	0	3.91	2497.001	2496.00	2688.950	2690
	10	3.91	2497.007	2496.00	2688.923	2690
	20	3.91	2497.058	2496.00	2688.942	2690
	30	3.91	2497.049	2496.00	2688.935	2690
	40	3.91	2497.045	2496.00	2688.927	2690
	50	3.91	2497.075	2496.00	2688.917	2690
Frequency Stability vs. Voltage	20	3.45	2497.010	2496.00	2688.972	2690
	20	4.5	2497.088	2496.00	2688.967	2690
					Result:	Pass

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	2497.080	2496.00	2688.912	2690
	-20	3.91	2497.051	2496.00	2688.909	2690
	-10	3.91	2497.004	2496.00	2688.926	2690
	0	3.91	2497.001	2496.00	2688.938	2690
	10	3.91	2497.032	2496.00	2688.970	2690
	20	3.91	2497.058	2496.00	2688.942	2690
	30	3.91	2497.015	2496.00	2688.922	2690
	40	3.91	2497.009	2496.00	2688.908	2690
	50	3.91	2497.094	2496.00	2688.907	2690
Frequency Stability vs. Voltage	20	3.45	2497.033	2496.00	2688.948	2690
	20	4.5	2497.022	2496.00	2688.902	2690
					Result:	Pass

Test Plots (Note: The 7.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

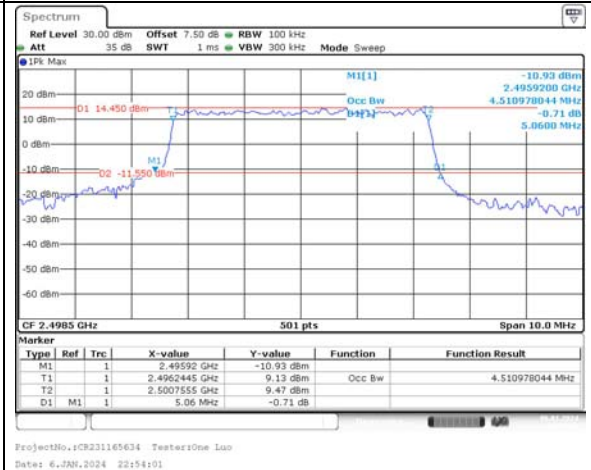
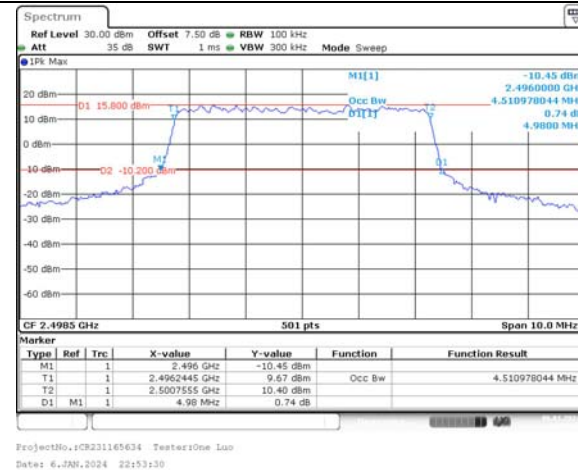
Occupied Bandwidth

Channel

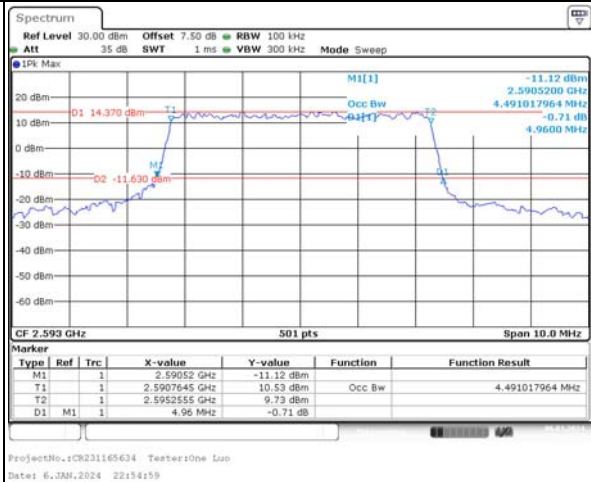
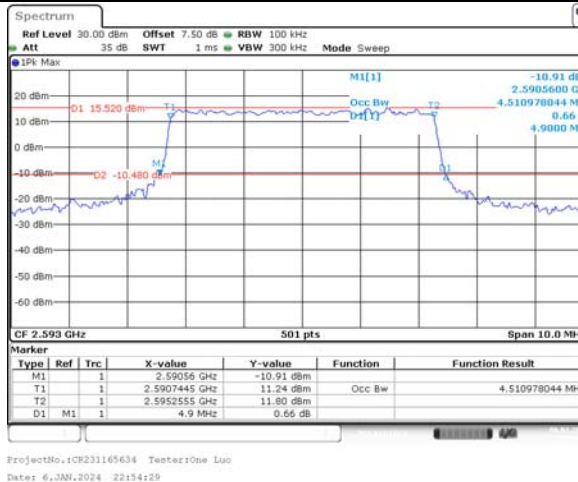
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

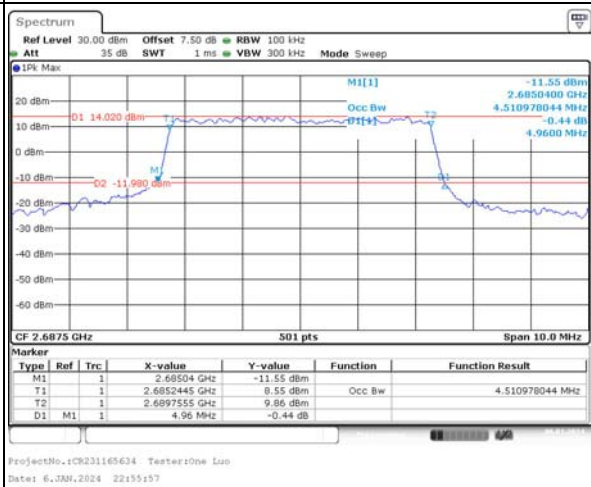
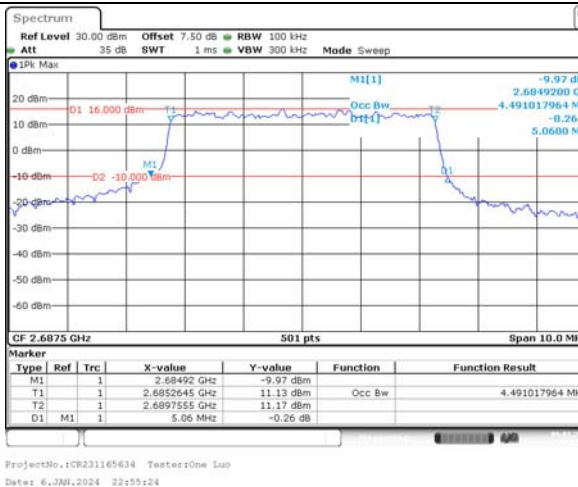
Lowest



Middle



Highest



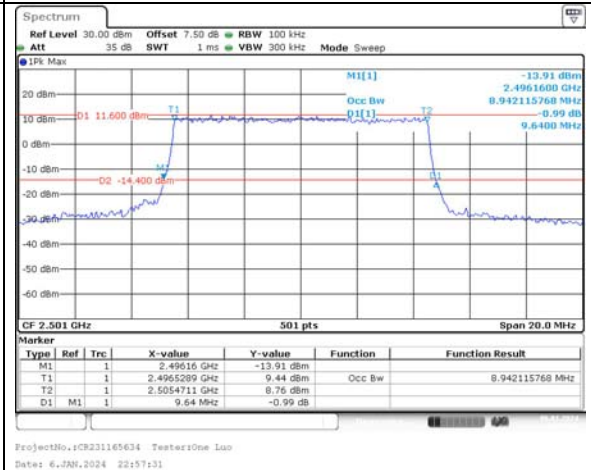
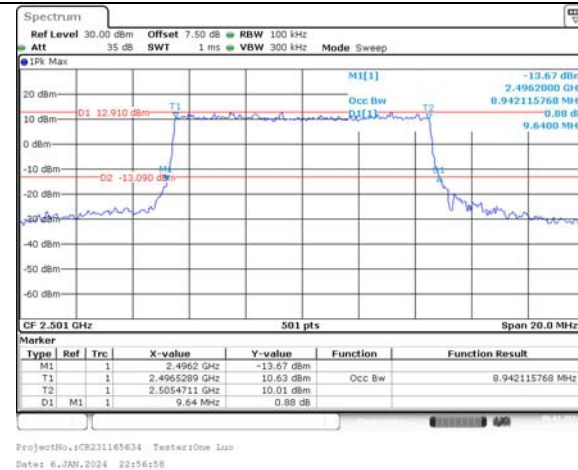
Occupied Bandwidth

Channel

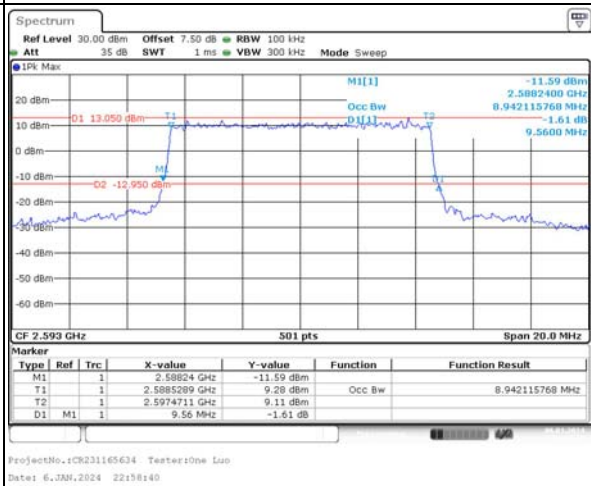
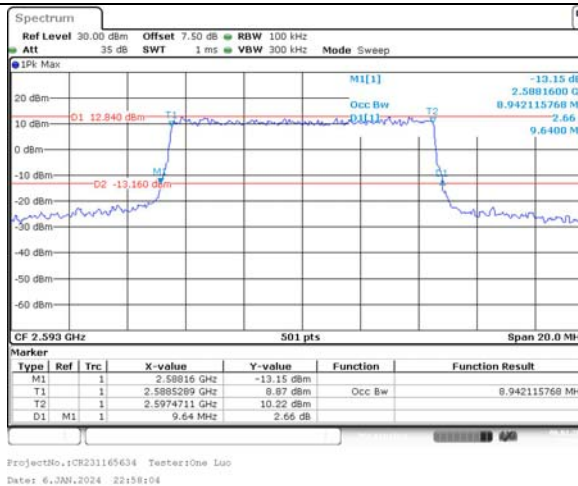
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

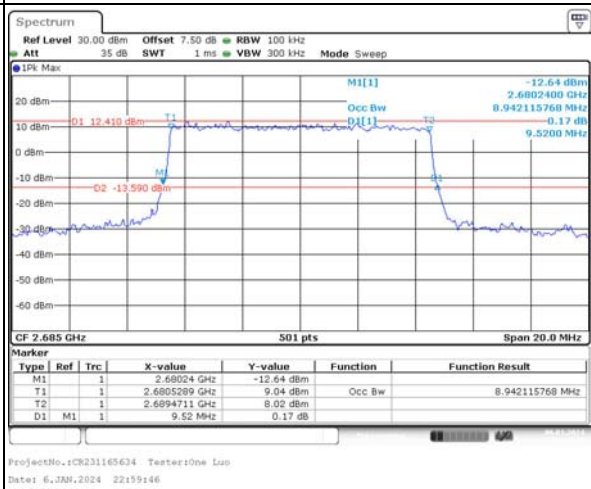
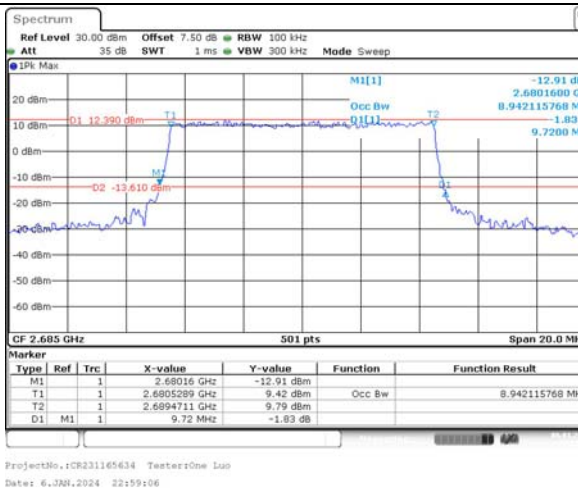
Lowest



Middle



Highest



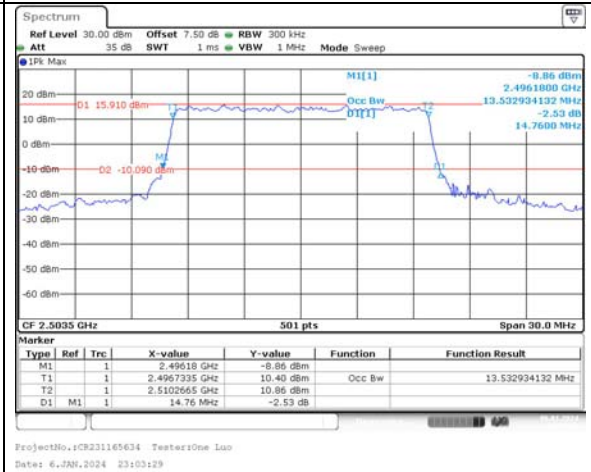
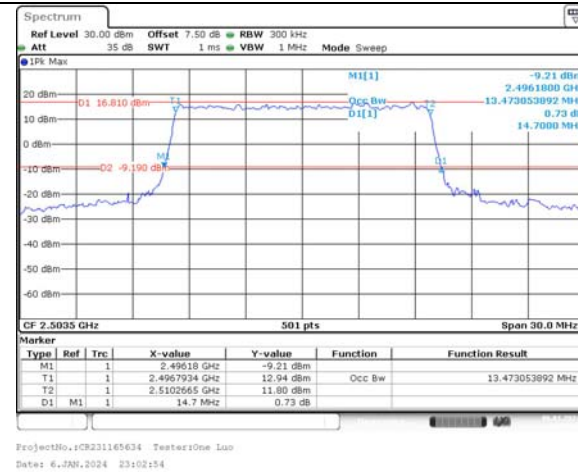
Occupied Bandwidth

Channel

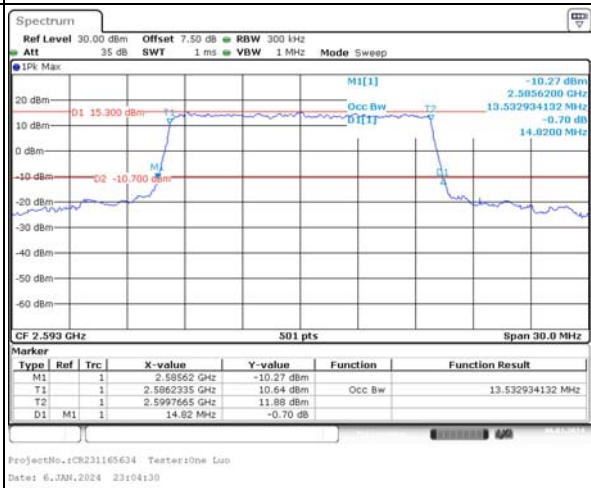
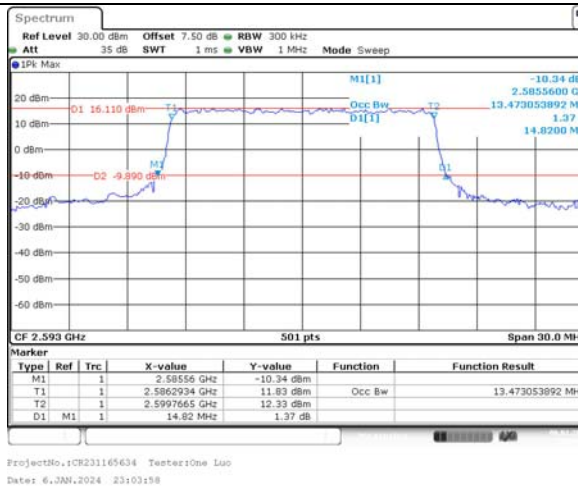
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

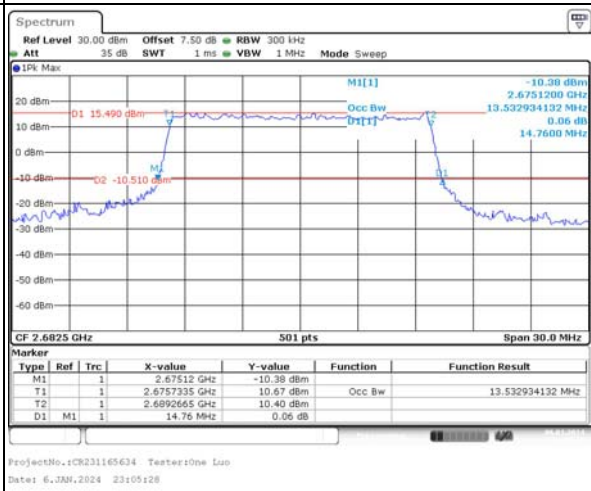
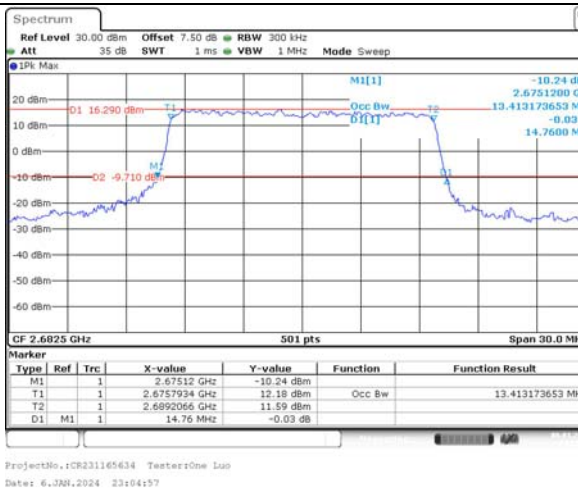
Lowest



Middle



Highest



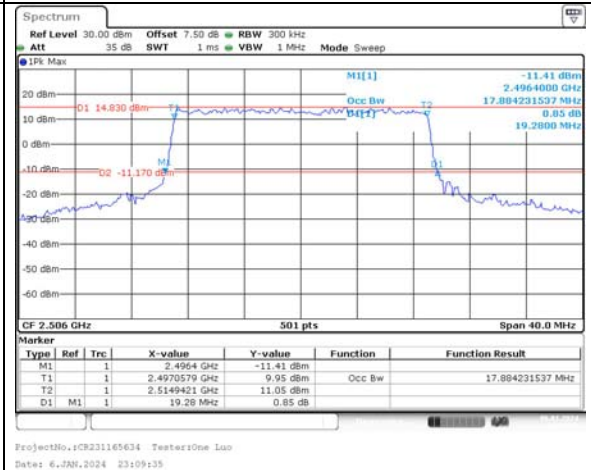
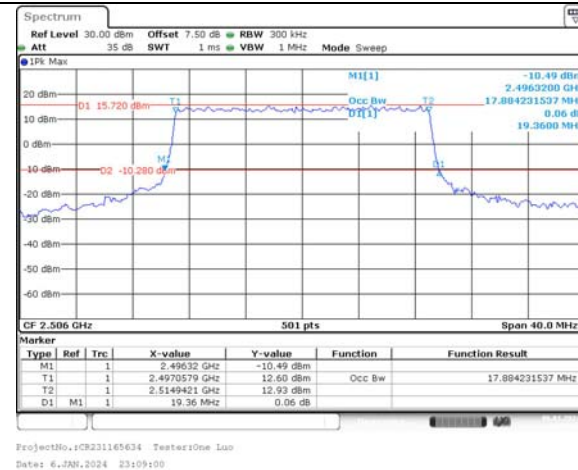
Occupied Bandwidth

Channel

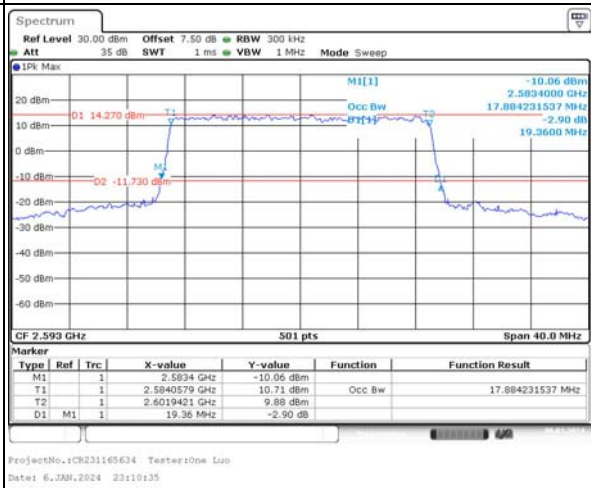
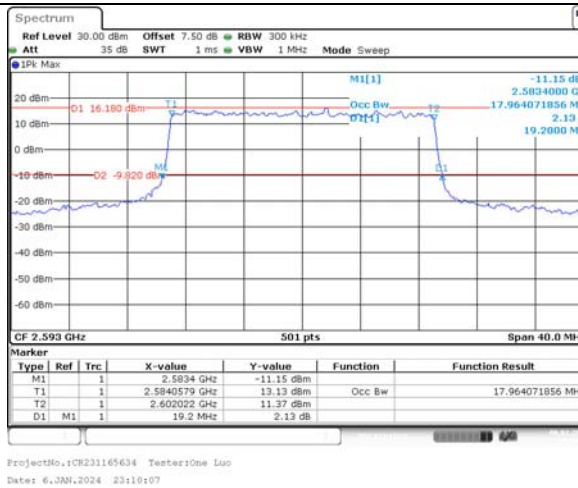
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

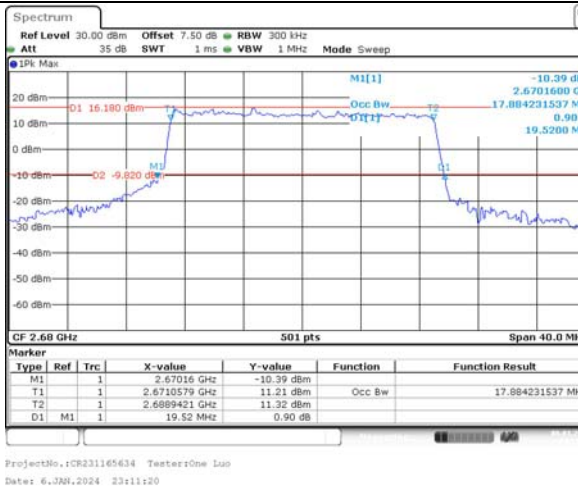
Lowest



Middle



Highest

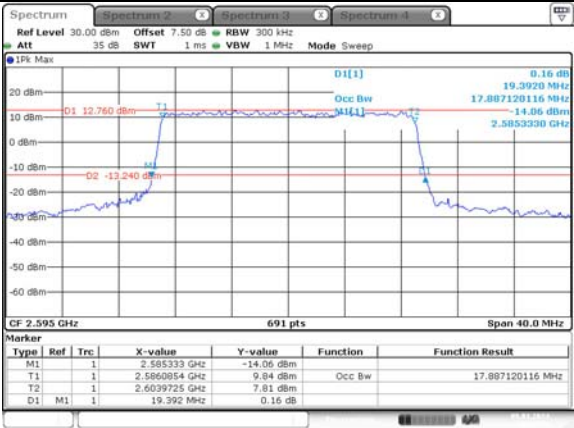


Occupied Bandwidth

Channel

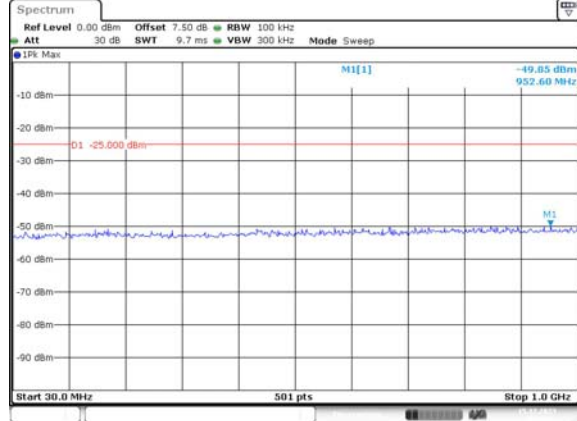
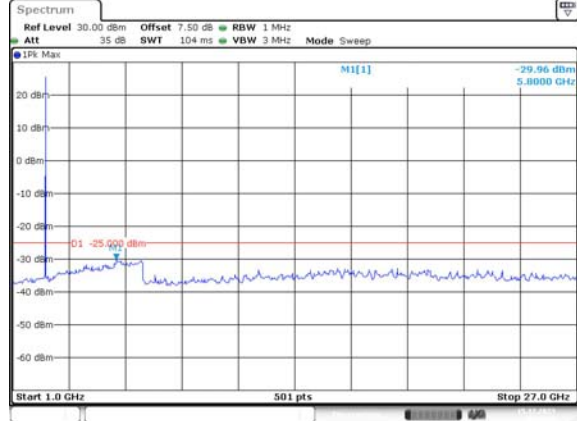
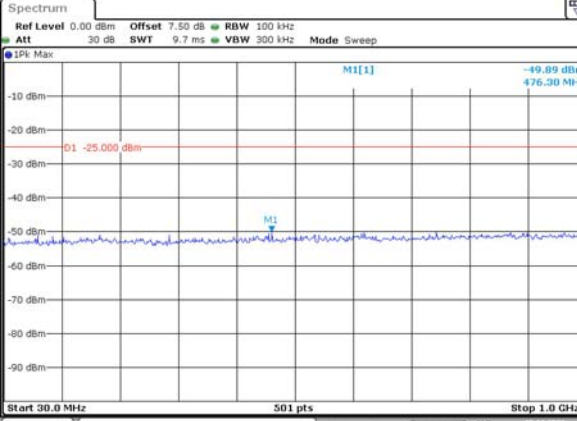
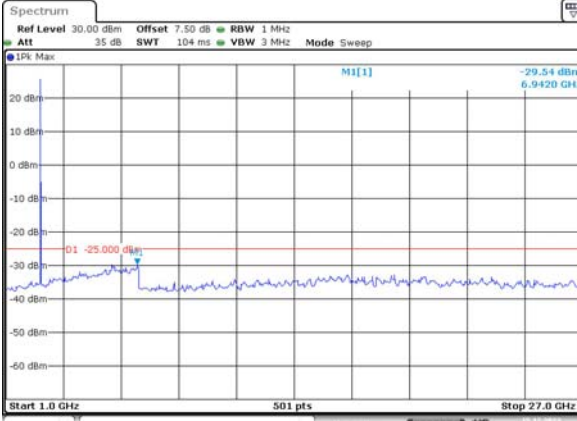
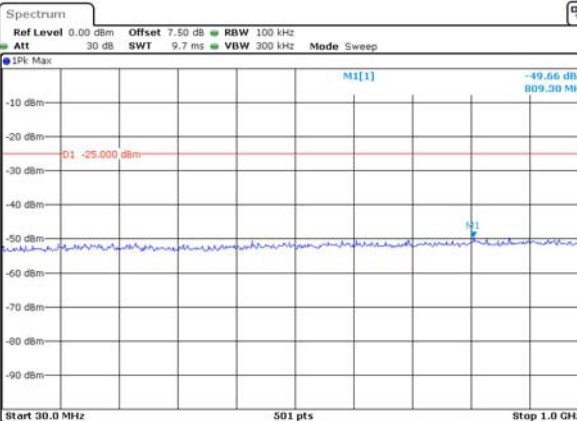
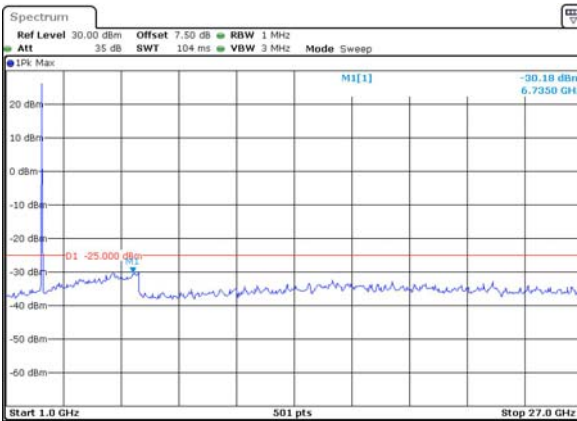
Middle

20MHz
Bandwidth
64QAM



ProjectNo.:CR231165634 TestersOne Luo
Date: 8.JAN.2024 14:22:58

Note: The test was performed with RB 1#0**Spurious Emissions at Antenna Terminal**

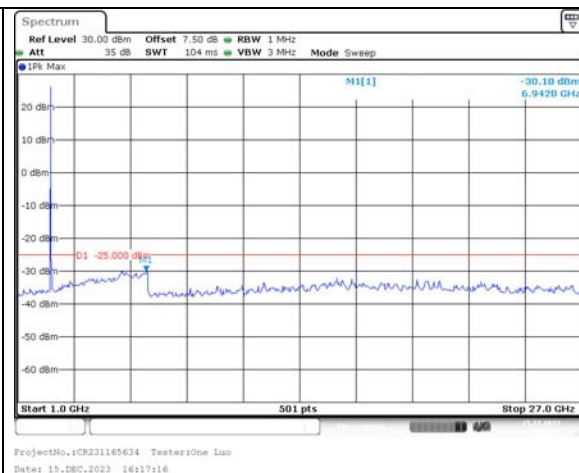
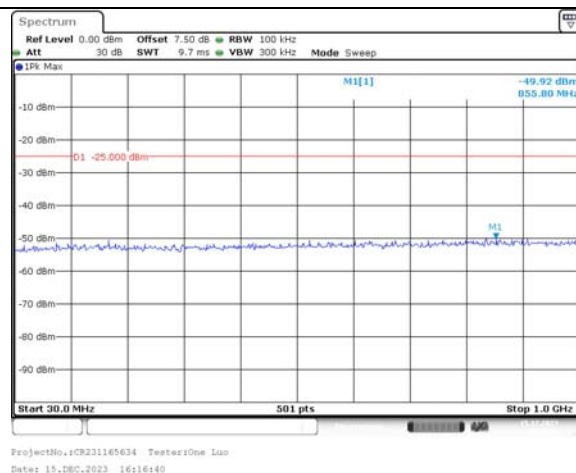
Channel	5MHz Bandwidth QPSK	
Lowest	 Ref Level 0.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -49.85 dBm 952.60 MHz -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 16:13:03	 Ref Level 30.00 dBm Offset 7.50 dB RBW 1 MHz Att 35 dB SWT 104 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -29.96 dBm 5.8000 GHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm Start 1.0 GHz 501 pts Stop 27.0 GHz ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 16:13:35
Middle	 Ref Level 0.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -49.89 dBm 476.30 MHz -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 16:14:07	 Ref Level 30.00 dBm Offset 7.50 dB RBW 1 MHz Att 35 dB SWT 104 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -29.54 dBm 6.9420 GHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm Start 1.0 GHz 501 pts Stop 27.0 GHz ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 16:14:38
Highest	 Ref Level 0.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -49.66 dBm 809.30 MHz -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 16:15:29	 Ref Level 30.00 dBm Offset 7.50 dB RBW 1 MHz Att 35 dB SWT 104 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -30.18 dBm 6.7350 GHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm Start 1.0 GHz 501 pts Stop 27.0 GHz ProjectNo.:CR231165634 TestersOne Luo Date: 15.DEC.2023 16:15:59

Spurious Emissions at Antenna Terminal

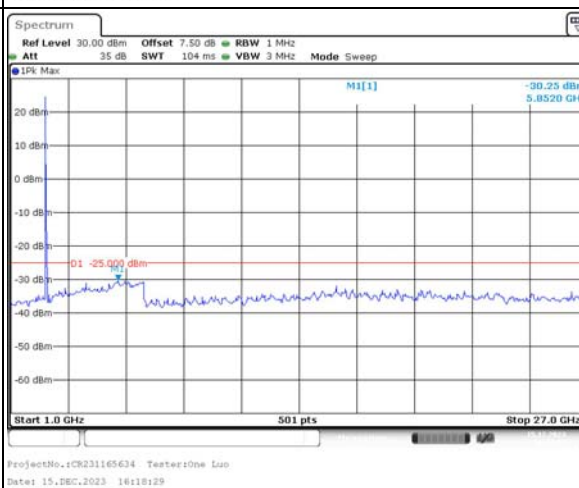
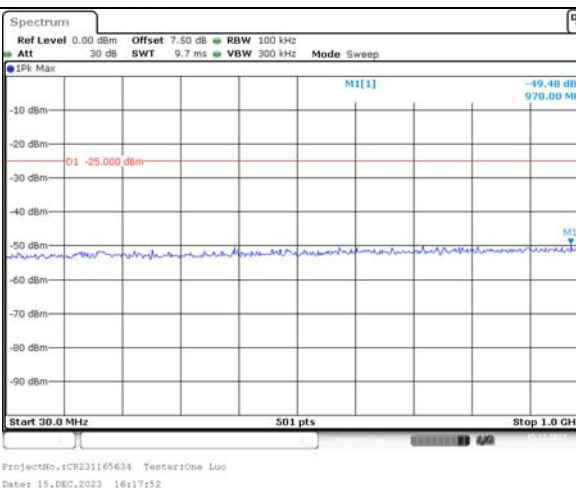
Channel

10MHz Bandwidth QPSK

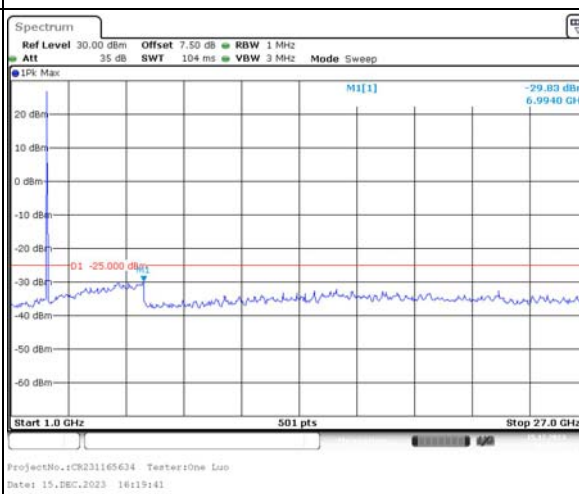
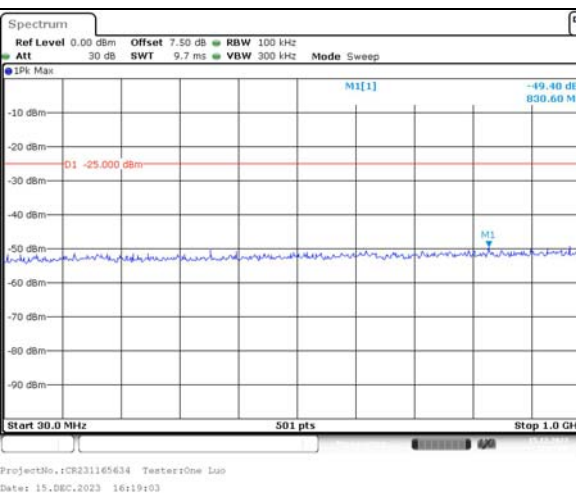
Lowest



Middle



Highest

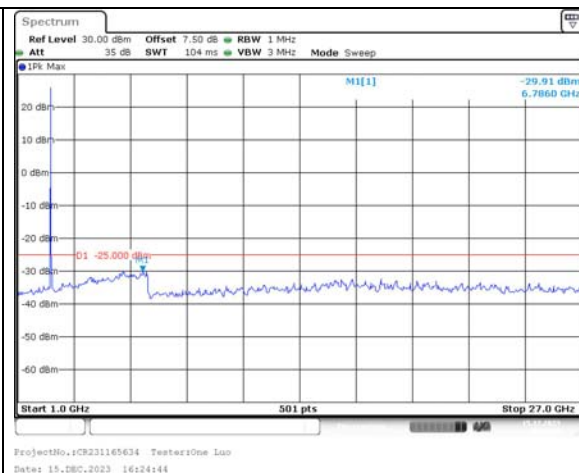
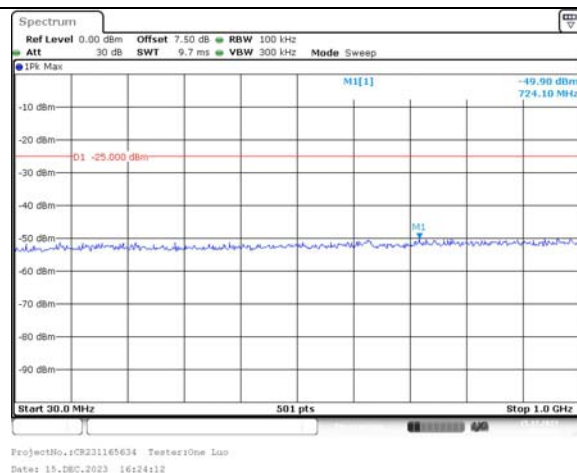


Spurious Emissions at Antenna Terminal

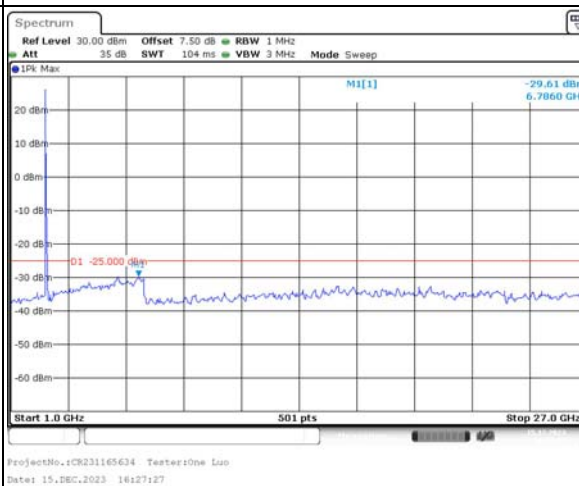
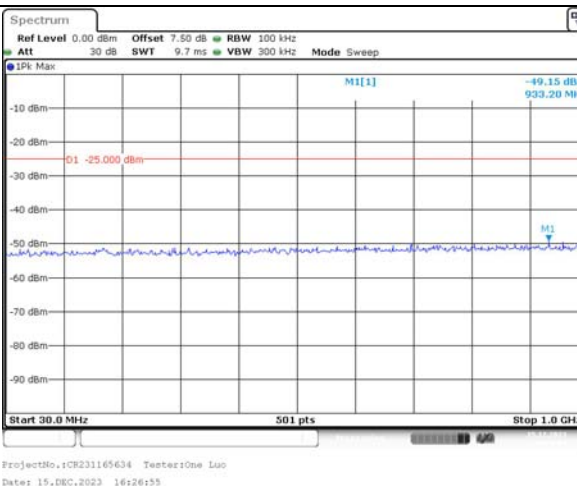
Channel

20MHz Bandwidth QPSK

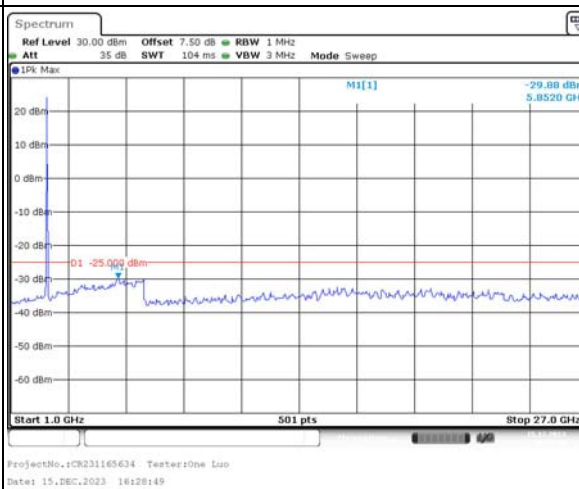
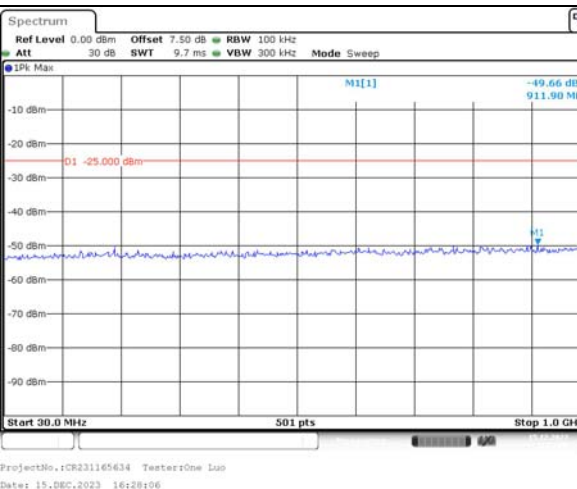
Lowest



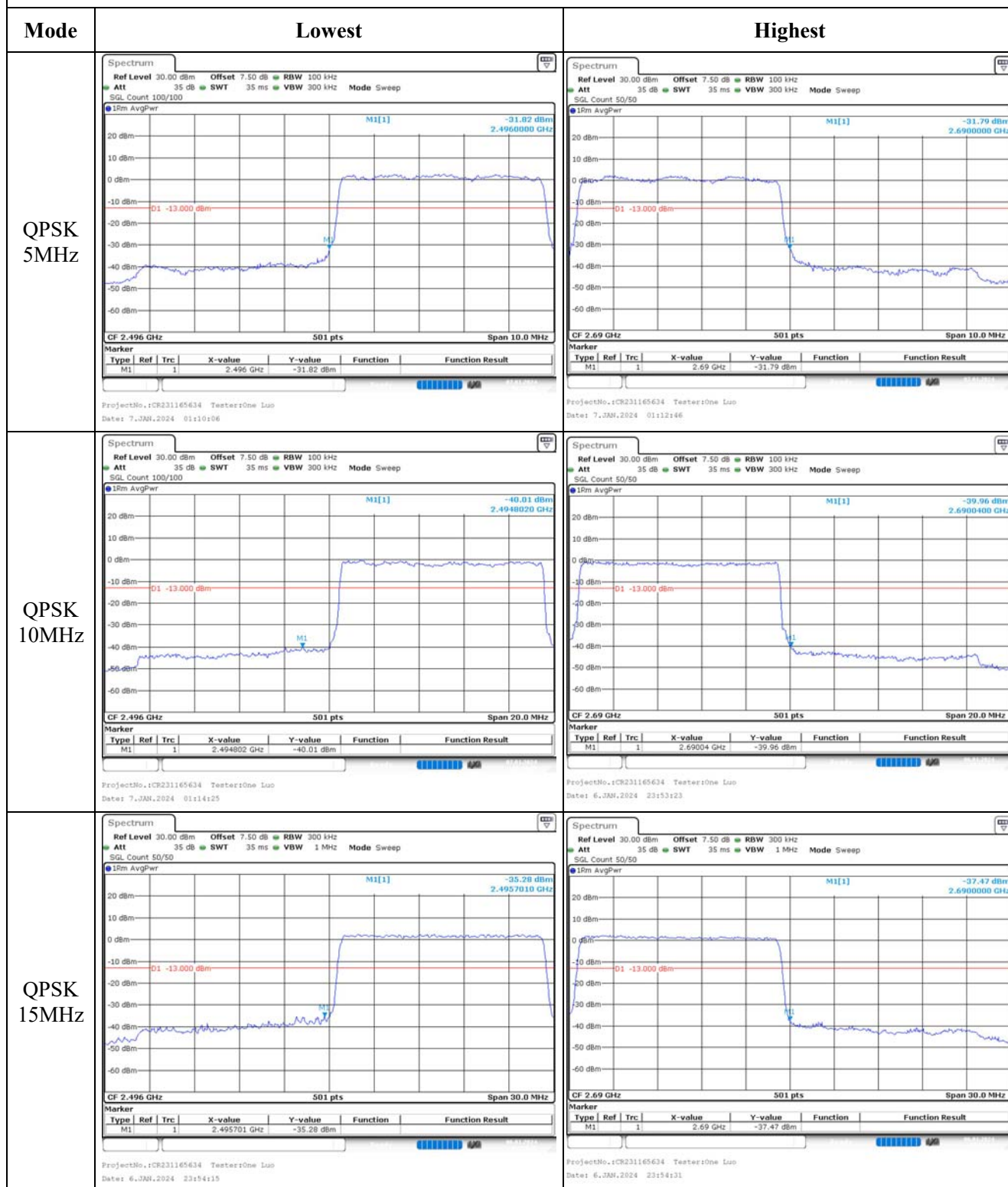
Middle

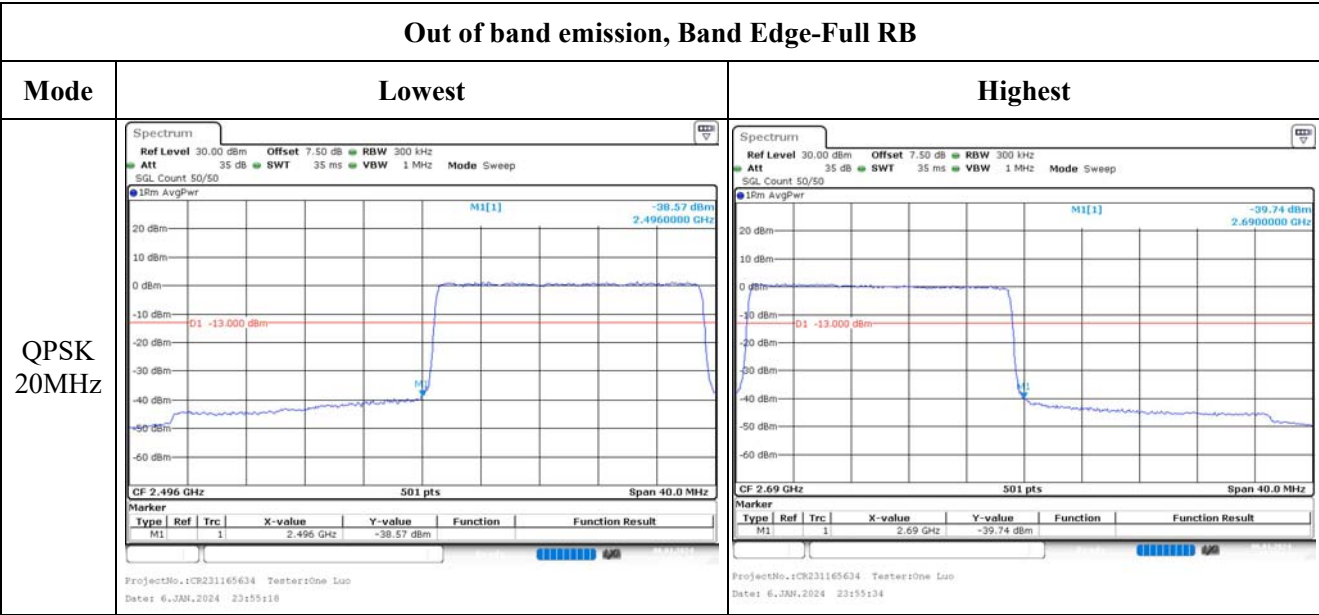


Highest

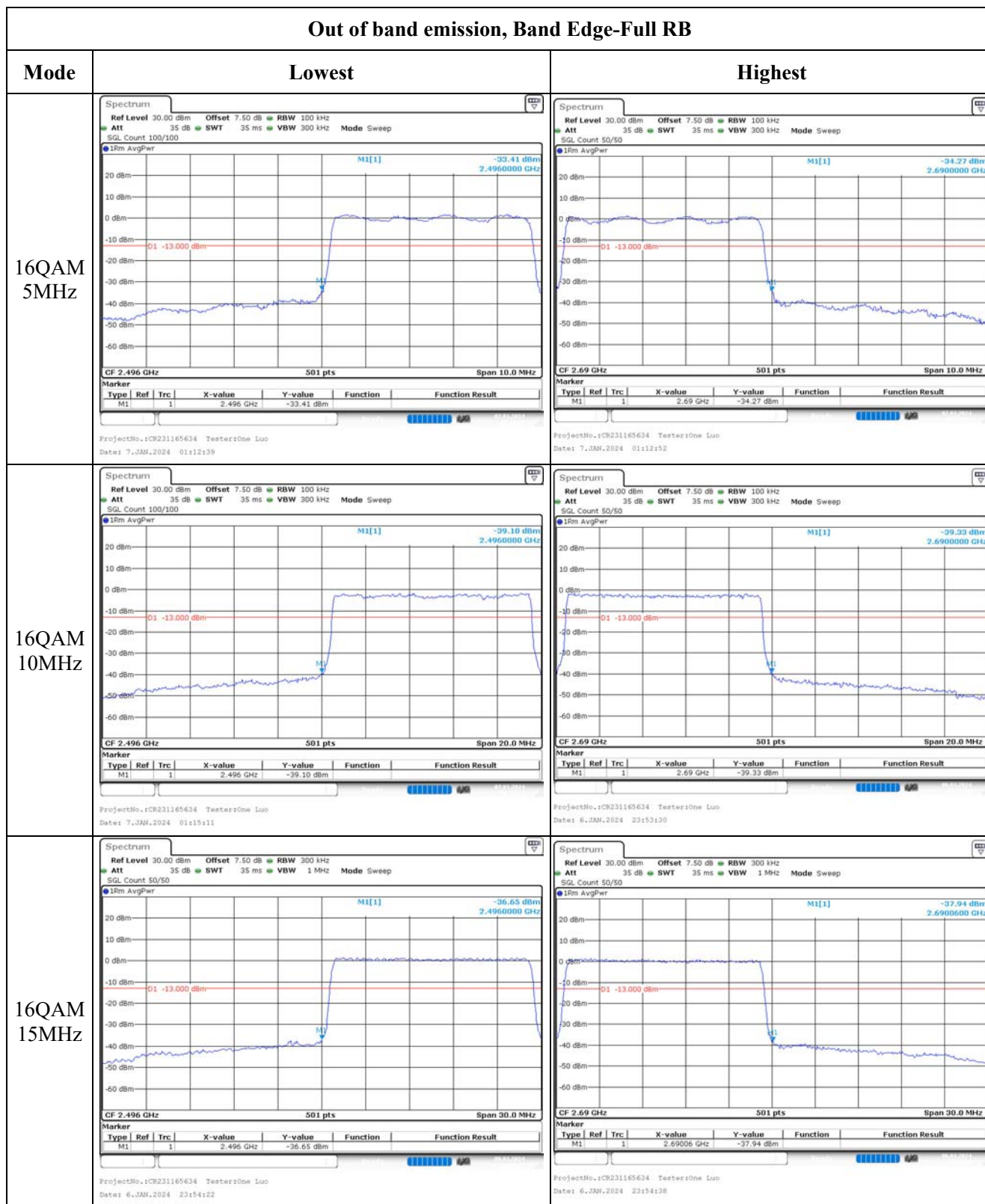


Out of band emission, Band Edge-Full RB

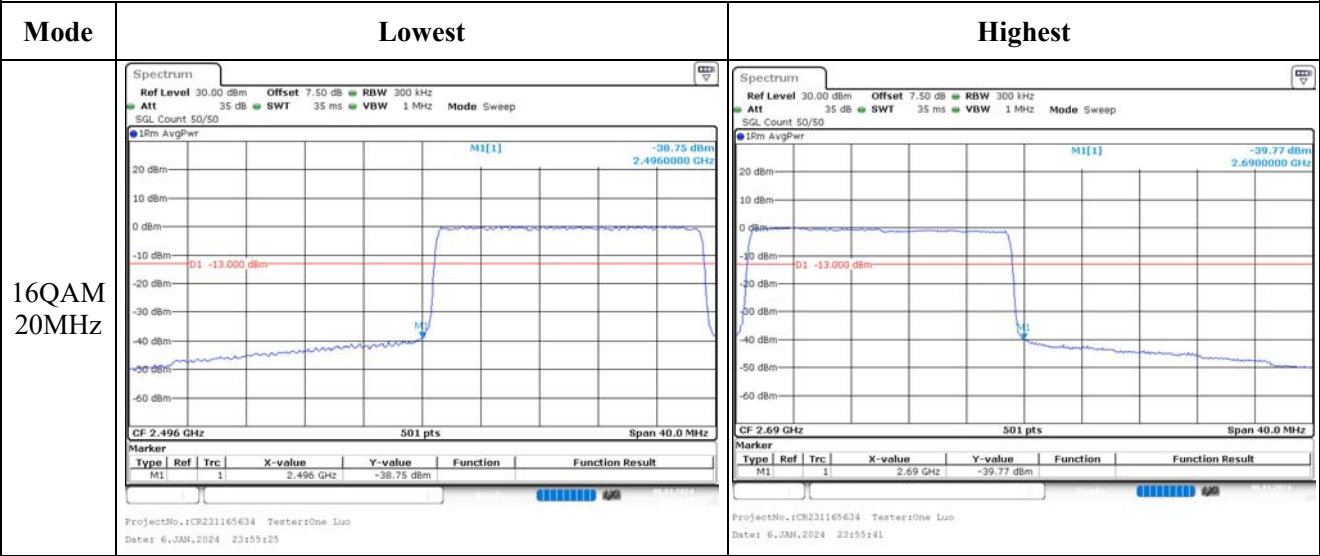




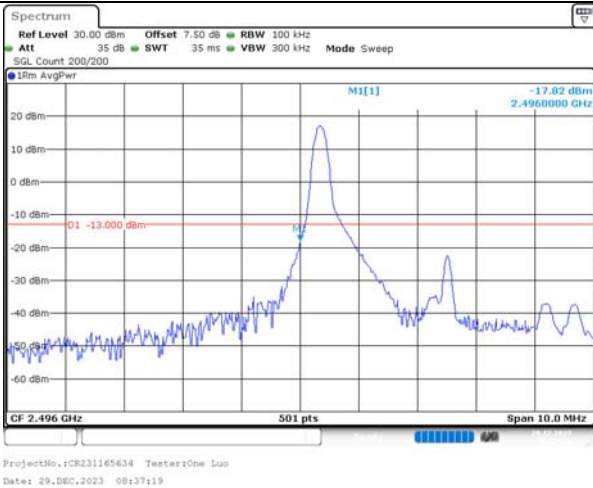
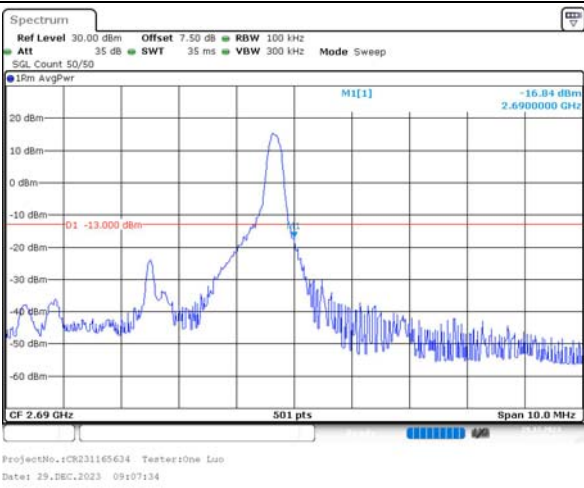
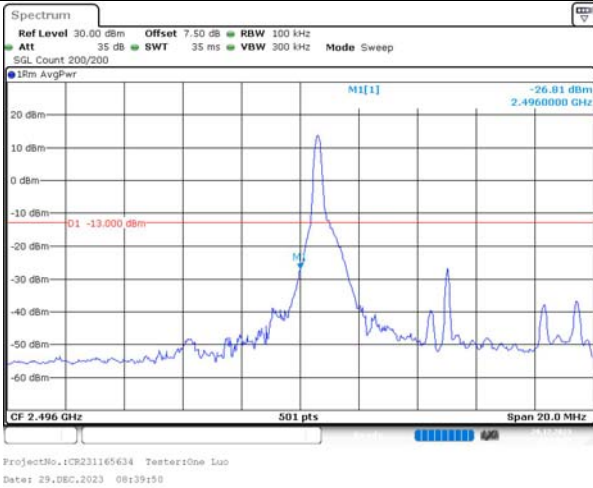
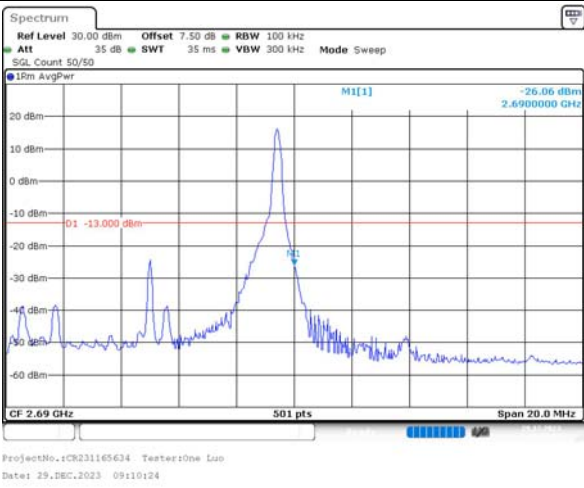
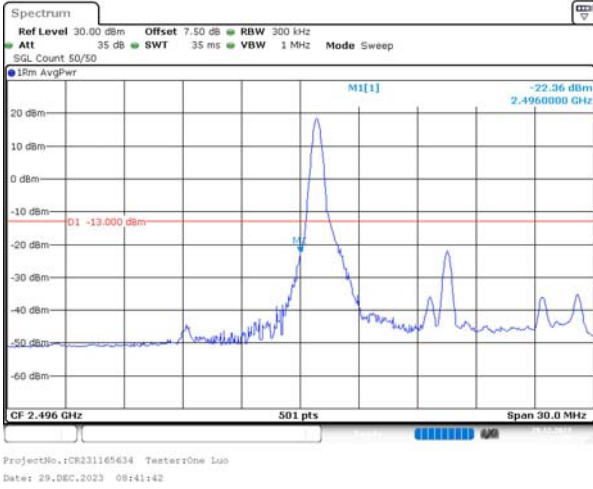
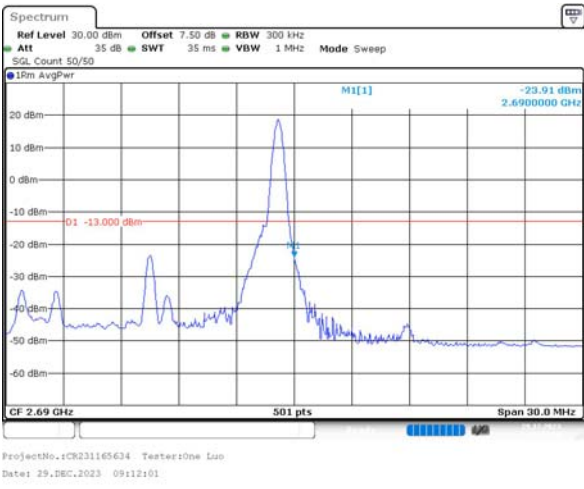
Out of band emission, Band Edge-Full RB

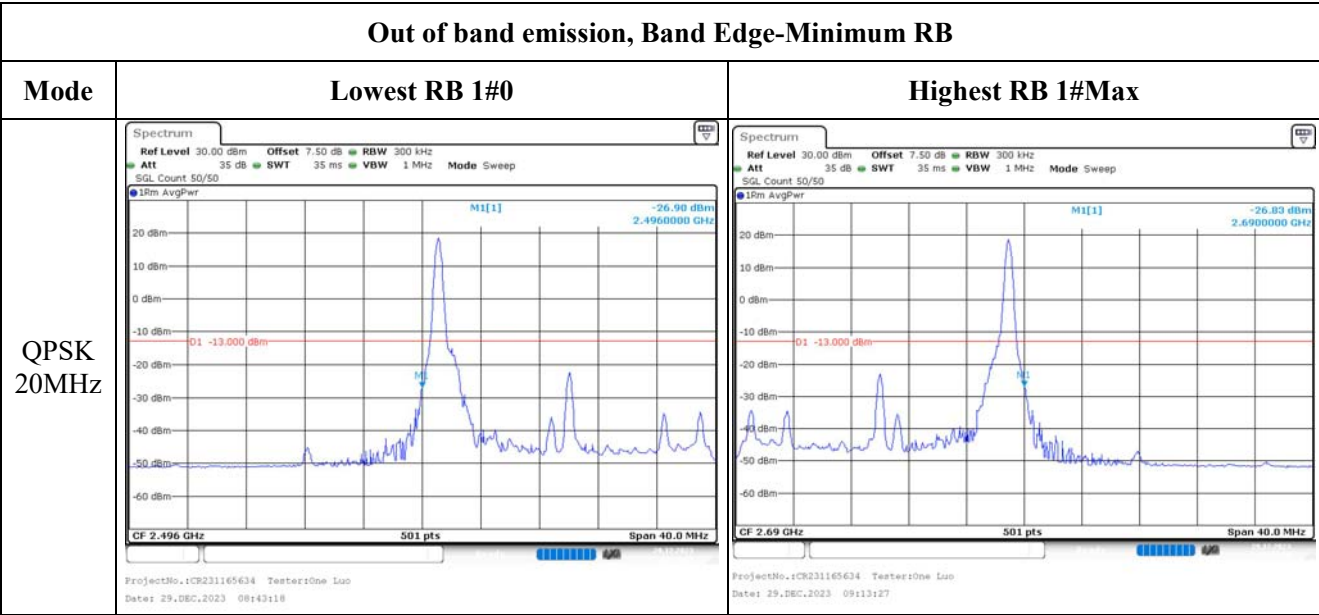


Out of band emission, Band Edge-Full RB

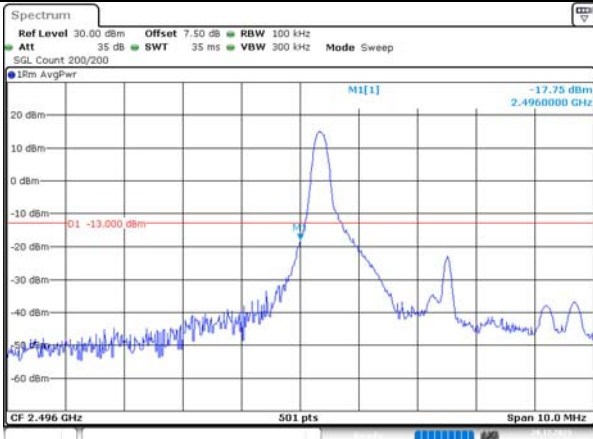
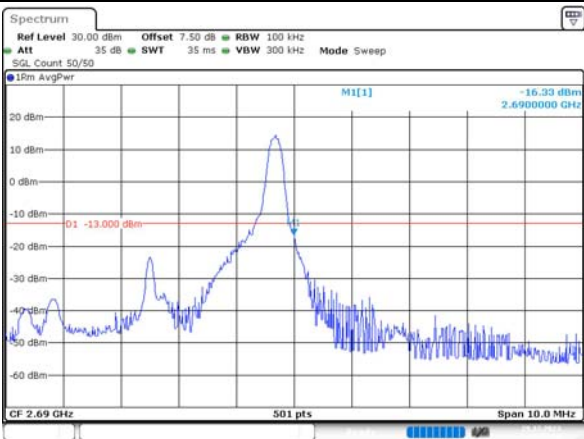
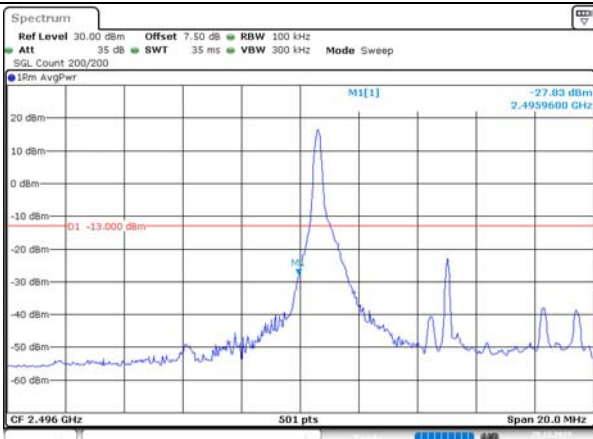
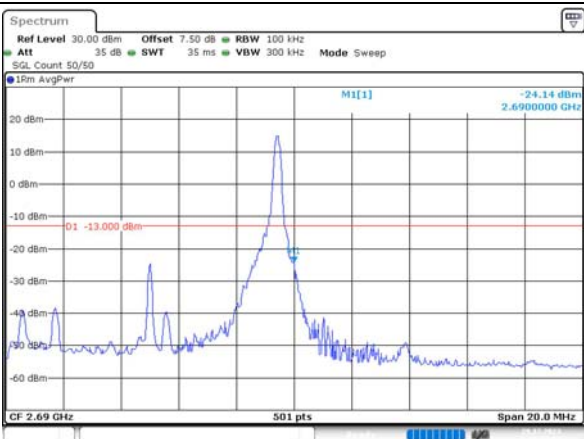
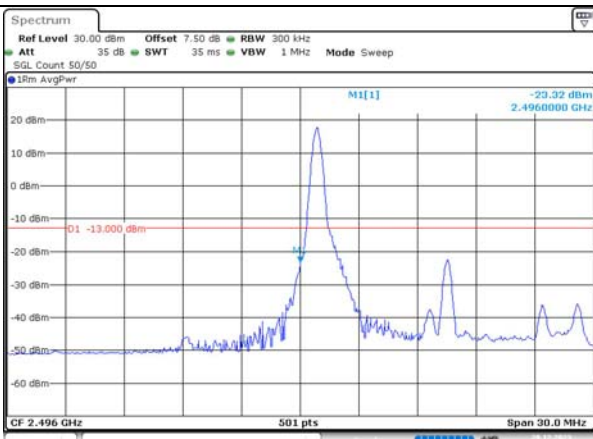
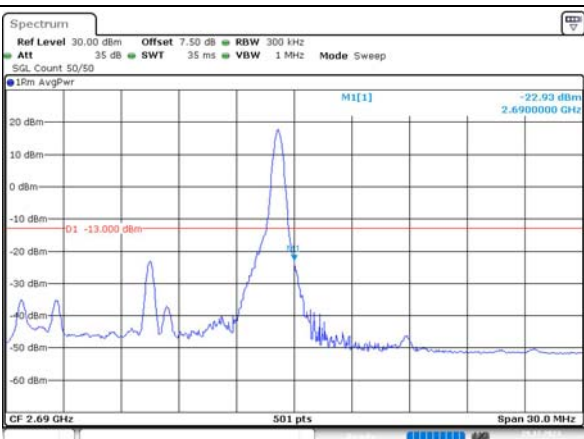


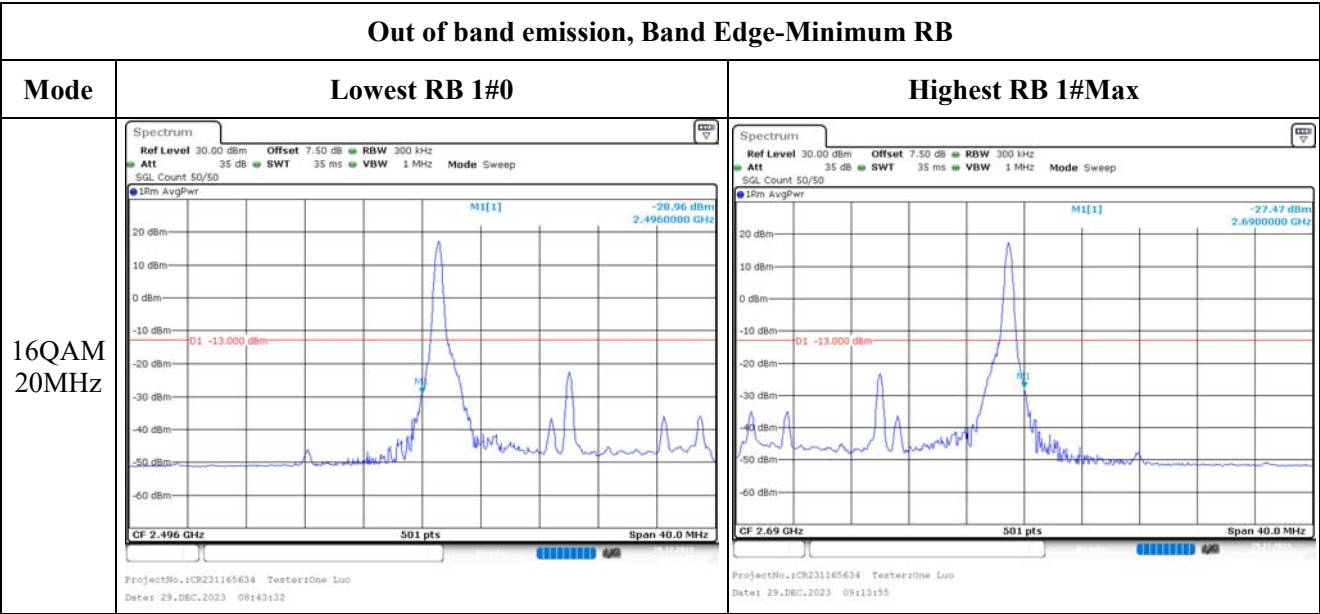
Out of band emission, Band Edge-Minimum RB

Mode	Lowest RB 1#0	Highest RB 1#Max
QPSK 5MHz	 ProjectNo.:CR231165634 TestersOne Luo Date: 29,DEC,2023 08:37:19	 ProjectNo.:CR231165634 TestersOne Luo Date: 29,DEC,2023 09:07:34
QPSK 10MHz	 ProjectNo.:CR231165634 TestersOne Luo Date: 29,DEC,2023 08:39:50	 ProjectNo.:CR231165634 TestersOne Luo Date: 29,DEC,2023 09:10:24
QPSK 15MHz	 ProjectNo.:CR231165634 TestersOne Luo Date: 29,DEC,2023 08:41:42	 ProjectNo.:CR231165634 TestersOne Luo Date: 29,DEC,2023 09:12:01



Out of band emission, Band Edge-Minimum RB

Mode	Lowest RB 1#0	Highest RB 1#Max
16QAM 5MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SQL Count 200/200 1Rm AvgPer MI[1] -17.75 dBm 2.4960000 GHz CF 2.496 GHz 501 pts Span 10.0 MHz ProjectNo.:CR231165634 Testers:One Luo Date: 29,DEC,2023 08:38:06	 Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SQL Count 50/50 1Rm AvgPer MI[1] -16.33 dBm 2.6900000 GHz CF 2.69 GHz 501 pts Span 10.0 MHz ProjectNo.:CR231165634 Testers:One Luo Date: 29,DEC,2023 09:07:51
16QAM 10MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SQL Count 200/200 1Rm AvgPer MI[1] -27.83 dBm 2.4960000 GHz CF 2.496 GHz 501 pts Span 20.0 MHz ProjectNo.:CR231165634 Testers:One Luo Date: 29,DEC,2023 08:40:23	 Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SQL Count 50/50 1Rm AvgPer MI[1] -24.14 dBm 2.6900000 GHz CF 2.69 GHz 501 pts Span 20.0 MHz ProjectNo.:CR231165634 Testers:One Luo Date: 29,DEC,2023 09:10:40
16QAM 15MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SQL Count 50/50 1Rm AvgPer MI[1] -29.32 dBm 2.4960000 GHz CF 2.496 GHz 501 pts Span 30.0 MHz ProjectNo.:CR231165634 Testers:One Luo Date: 29,DEC,2023 08:41:57	 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SQL Count 50/50 1Rm AvgPer MI[1] -22.93 dBm 2.6900000 GHz CF 2.69 GHz 501 pts Span 30.0 MHz ProjectNo.:CR231165634 Testers:One Luo Date: 29,DEC,2023 09:12:17



4.15 Antenna Port Test Data and Results for LTE Band 42

Serial Number:	2BD2-1	Test Date:	2023/1/23-2024/1/24
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	17.4~18.3	Relative Humidity: (%)	31~33	ATM Pressure: (kPa)	101.5~102.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/29	2024/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency for Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	3452.5	3500	3547.5
10MHz	3455	3500	3545
15MHz	3457.5	3500	3542.5
20MHz	3460	3500	3540

Test Data:

RF Output Power						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	23.6	24.08	24.16	18.36	33
	RB1#13	23.62	24.03	24.09		
	RB1#24	23.7	24.07	24.12		
	RB15#0	22.62	22.97	22.94		
	RB15#10	22.62	23.01	22.96		
	RB25#0	22.62	22.99	22.95		
5MHz 16QAM	RB1#0	22.64	23.29	23	17.49	33
	RB1#13	22.65	23.2	22.91		
	RB1#24	22.75	23.29	22.94		
	RB15#0	21.64	21.98	21.89		
	RB15#10	21.63	22.05	21.88		
	RB25#0	21.68	21.97	21.97		
5MHz 64QAM	RB1#0	22.18	22.81	22.59	17.01	33
	RB1#13	22.22	22.8	22.44		
	RB1#24	22.3	22.81	22.47		
	RB15#0	21.2	21.58	21.44		
	RB15#10	21.2	21.56	21.45		
	RB25#0	21.24	21.57	21.54		
10MHz QPSK	RB1#0	23.60	23.98	24.07	18.27	33
	RB1#25	23.66	24.02	24.05		
	RB1#49	23.72	24.04	24.01		
	RB25#0	22.71	23.09	23.07		
	RB25#25	22.76	23.09	23.08		
	RB50#0	22.79	23.10	23.06		
10MHz 16QAM	RB1#0	22.59	23.20	23.21	17.44	33
	RB1#25	22.58	23.22	23.15		
	RB1#49	22.68	23.24	23.17		
	RB25#0	21.79	22.13	22.10		
	RB25#25	21.80	22.15	22.06		
	RB50#0	21.75	22.08	22.07		
10MHz 64QAM	RB1#0	22.18	22.75	22.73	17	33
	RB1#25	22.15	22.8	22.67		
	RB1#49	22.27	22.76	22.68		
	RB25#0	21.33	21.64	21.7		
	RB25#25	21.37	21.7	21.58		
	RB50#0	21.29	21.66	21.65		
15MHz QPSK	RB1#0	23.53	24.09	24.04	18.33	33
	RB1#38	23.66	24.12	24.03		
	RB1#74	23.76	24.13	23.99		
	RB36#0	22.62	22.96	22.97		

	RB36#39	22.69	22.96	22.91		
	RB75#0	22.73	23.03	22.98		
15MHz 16QAM	RB1#0	22.53	23.19	23.16	17.46	33
	RB1#38	22.63	23.24	23.15		
	RB1#74	22.74	23.26	23.15		
	RB36#0	21.64	22.11	21.99		
	RB36#39	21.72	22.07	21.98		
	RB75#0	21.68	22.06	21.98		
15MHz 64QAM	RB1#0	22.09	22.76	22.66	17.01	33
	RB1#38	22.22	22.77	22.71		
	RB1#74	22.26	22.81	22.66		
	RB36#0	21.21	21.62	21.52		
	RB36#39	21.3	21.59	21.52		
	RB75#0	21.25	21.58	21.56		
20MHz QPSK	RB1#0	23.64	24.04	24.02	18.28	33
	RB1#50	23.69	24.02	23.91		
	RB1#99	23.79	24.08	23.91		
	RB50#0	22.76	23.12	23.14		
	RB50#50	22.80	23.03	22.94		
	RB100#0	22.73	23.07	23.07		
20MHz 16QAM	RB1#0	22.64	23.46	23.10	17.68	33
	RB1#50	22.70	23.44	22.99		
	RB1#99	22.85	23.48	22.99		
	RB50#0	21.82	22.13	22.12		
	RB50#50	21.83	22.06	21.95		
	RB100#0	21.75	22.06	22.04		
20MHz 64QAM	RB1#0	22.22	23.04	22.69	17.24	33
	RB1#50	22.21	23	22.59		
	RB1#99	22.37	23	22.58		
	RB50#0	21.37	21.71	21.71		
	RB50#50	21.34	21.65	21.48		
	RB100#0	21.25	21.62	21.59		
Note: EIRP=Conducted Power(dBm) - Lc(dB) + G _T (dBi)						
					Result:	Pass

Occupied Bandwidth

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
5MHz QPSK	4.491	4.511	4.491	4.960	4.920	4.960
5MHz 16QAM	4.511	4.491	4.531	5.060	4.960	4.960
5MHz 64QAM	/	4.511	/	/	4.98	/
10MHz QPSK	8.942	8.942	8.981	9.680	9.640	9.680
10MHz 16QAM	8.942	8.942	8.981	9.520	9.640	9.600
10MHz 64QAM	/	8.942	/	/	9.64	/
15MHz QPSK	13.473	13.473	13.473	15.060	15.720	15.120
15MHz 16QAM	13.533	13.533	13.533	15.060	14.760	14.940
15MHz 64QAM	/	13.473	/	/	14.58	/
20MHz QPSK	17.884	17.884	18.044	19.360	19.600	19.200
20MHz 16QAM	17.884	17.884	17.884	19.520	19.360	19.440
20MHz 64QAM	/	17.884	/	/	18.96	/

Note:

The test plots please refer to the Plots of Occupied Bandwidth
64QAM only test with middle channel.

Spurious Emissions at Antenna Terminal

Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.
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Out of band emission, Band Edge

Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.
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Frequency Stability

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	3451.075	3450.00	3549.031	3550
	-20	3.91	3451.018	3450.00	3549.068	3550
	-10	3.91	3451.070	3450.00	3549.073	3550
	0	3.91	3451.062	3450.00	3549.089	3550
	10	3.91	3451.017	3450.00	3549.037	3550
	20	3.91	3451.058	3450.00	3549.020	3550
	30	3.91	3451.176	3450.00	3549.180	3550
	40	3.91	3451.228	3450.00	3549.128	3550
	50	3.91	3451.226	3450.00	3549.115	3550
Frequency Stability vs. Voltage	20	3.45	3451.209	3450.00	3549.164	3550
	20	4.5	3451.202	3450.00	3549.152	3550
					Result:	Pass

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	3451.312	3450.00	3549.119	3550
	-20	3.91	3451.298	3450.00	3549.180	3550
	-10	3.91	3451.344	3450.00	3548.125	3550
	0	3.91	3451.381	3450.00	3549.181	3550
	10	3.91	3451.298	3450.00	3549.113	3550
	20	3.91	3451.058	3450.00	3548.942	3550
	30	3.91	3451.068	3450.00	3549.377	3550
	40	3.91	3451.036	3450.00	3548.320	3550
	50	3.91	3451.042	3450.00	3549.336	3550
Frequency Stability vs. Voltage	20	3.45	3451.059	3450.00	3549.369	3550
	20	4.5	3451.083	3450.00	3549.306	3550
					Result:	Pass