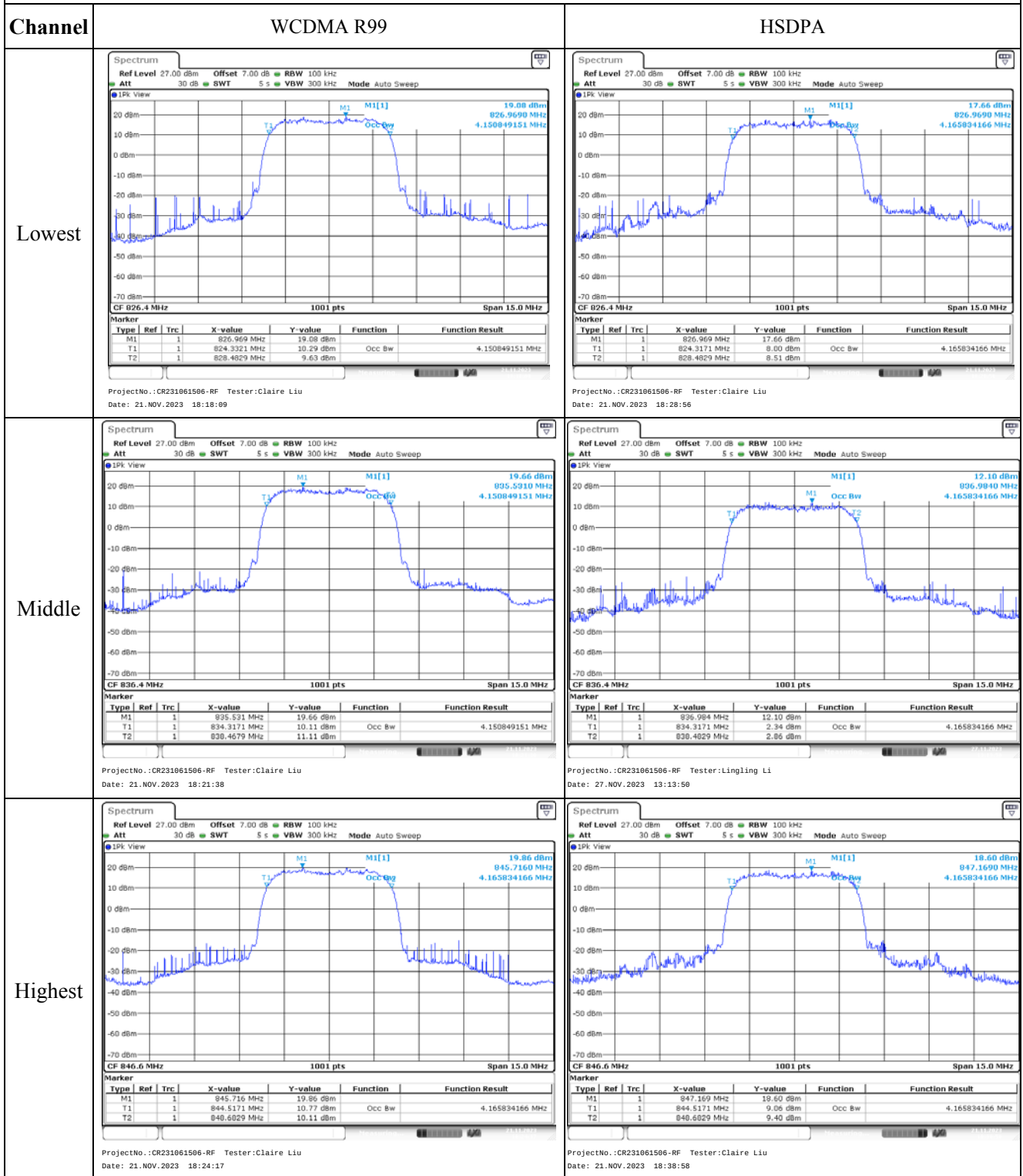


Test Plots(Note: The 7dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

Occupied Bandwidth

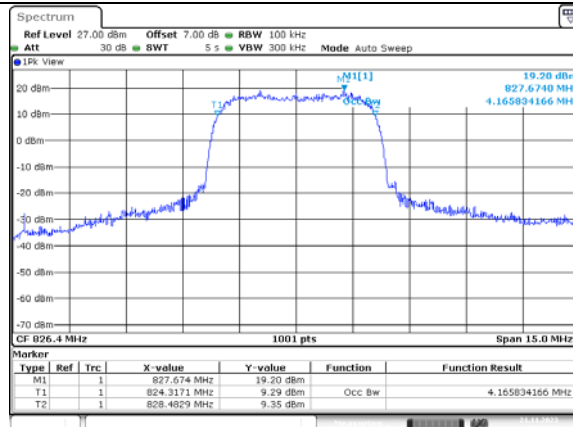


Occupied Bandwidth

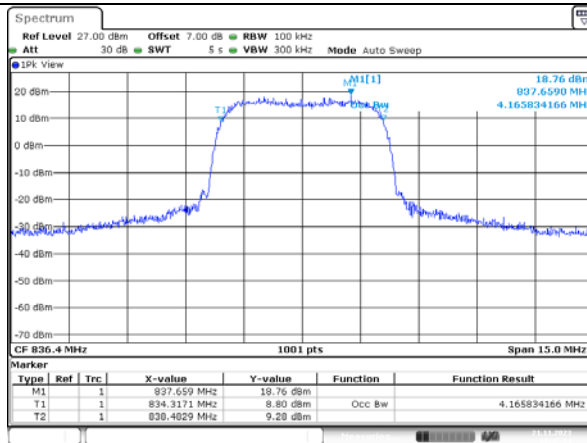
Channel

HSUPA

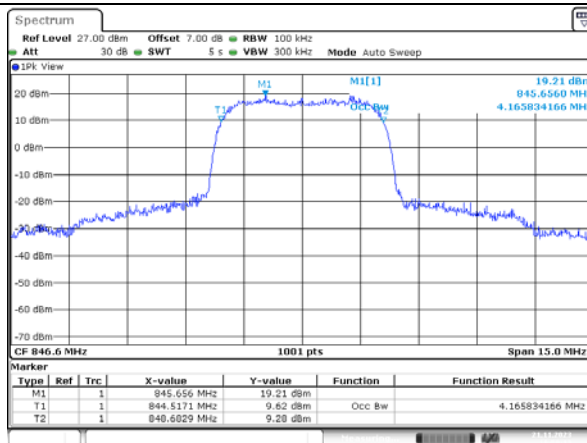
Lowest



Middle



Highest

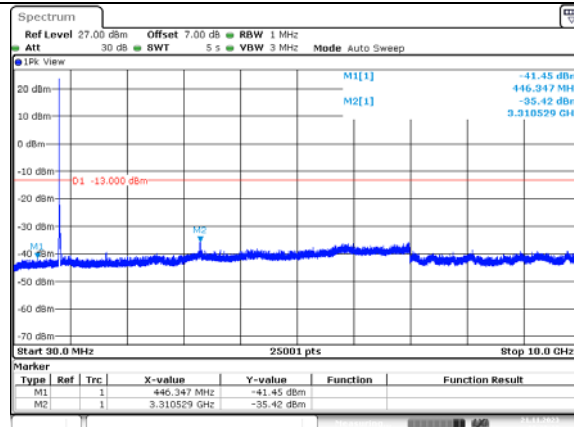


Spurious Emissions at Antenna Terminal

Channel

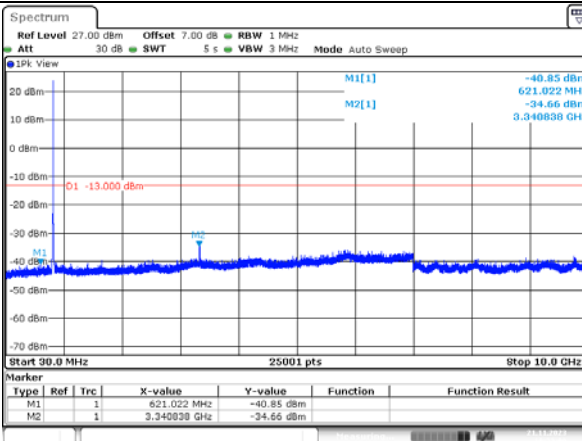
WCDMA R99

Lowest



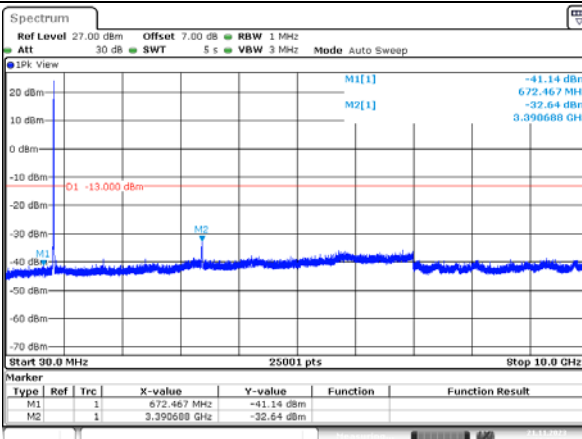
ProjectNo.:CR231061506-RF Tester:Claire Liu
Date: 21.NOV.2023 18:20:13

Middle



ProjectNo.:CR231061506-RF Tester:Claire Liu
Date: 21.NOV.2023 18:23:00

Highest



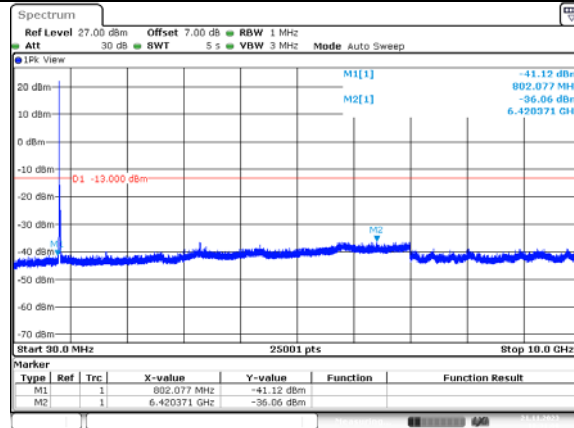
ProjectNo.:CR231061506-RF Tester:Claire Liu
Date: 21.NOV.2023 18:26:21

Spurious Emissions at Antenna Terminal

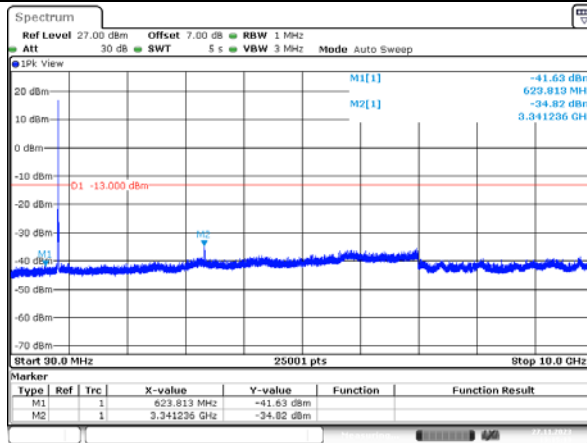
Channel

HSDPA

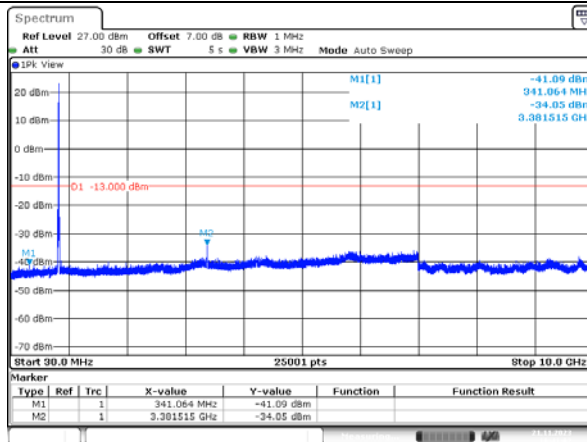
Lowest



Middle



Highest

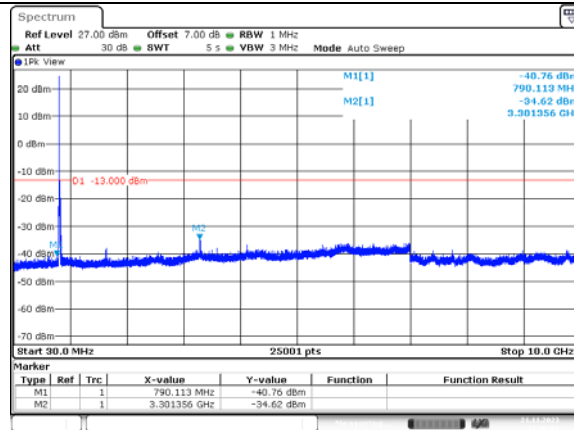


Spurious Emissions at Antenna Terminal

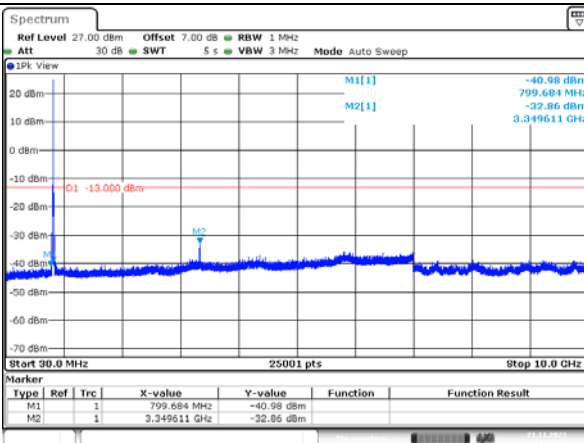
Channel

HSUPA

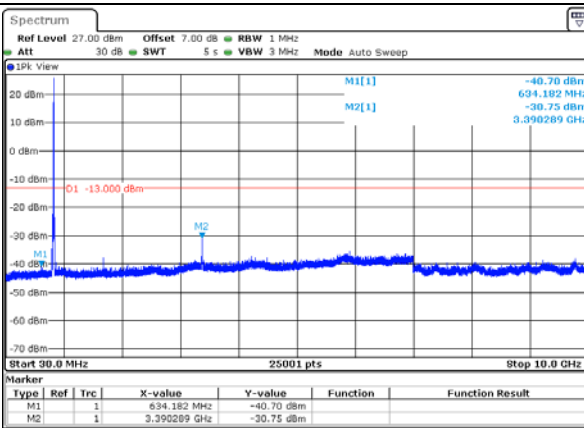
Lowest



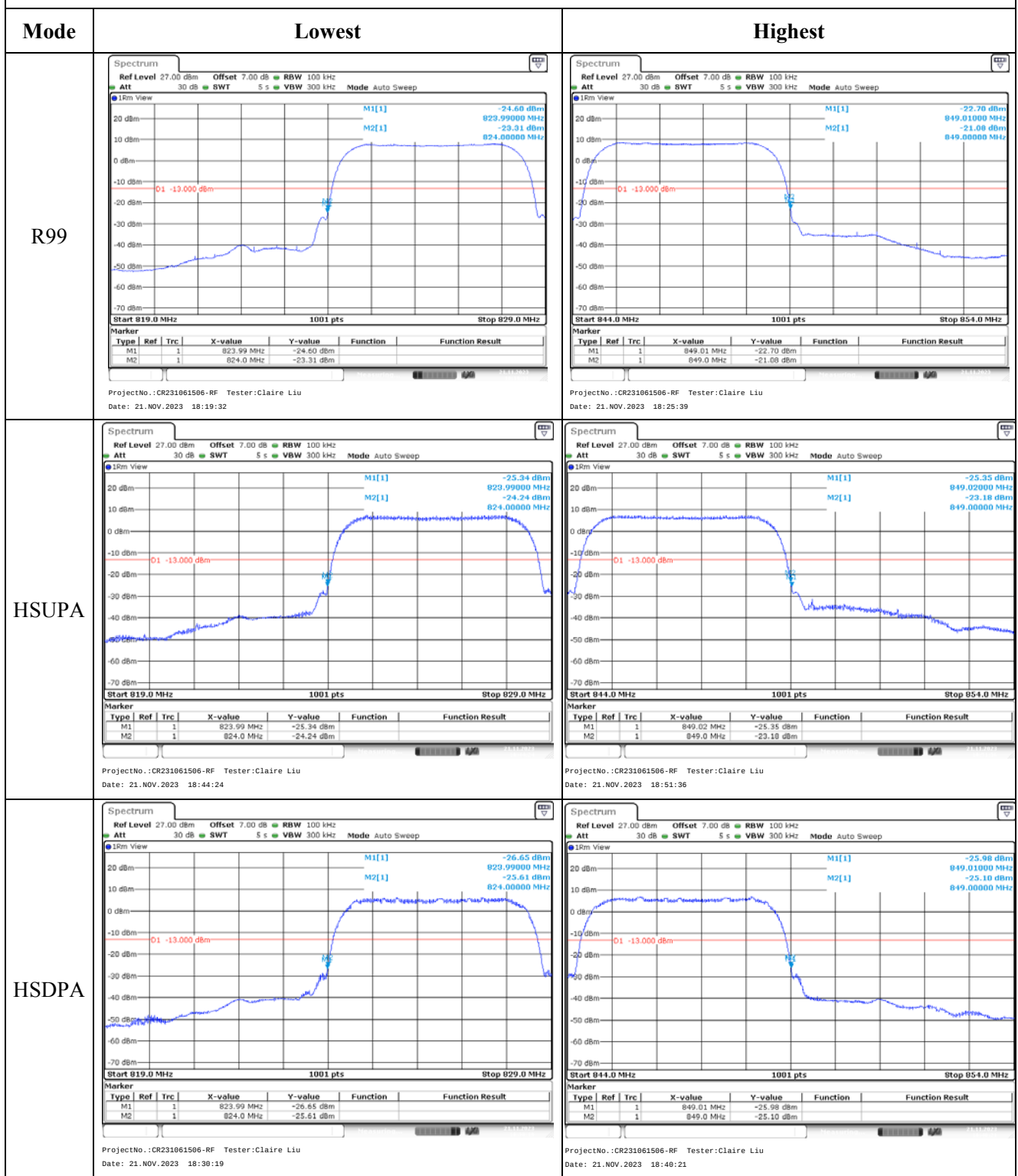
Middle



Highest



Out of band emission, Band Edge



4.6 Antenna Port Test Data and Results for LTE Band 2

Serial Number:	2CII-1	Test Date:	2023/11/18-2023/11/20
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5~26.5	Relative Humidity: (%)	54~64	ATM Pressure: (kPa)	100.1~102
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Minl-Clruids	Power Splitter	ZFRSC-183-S+	S F448201619	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	2023/9/28	2024/9/27
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	2023/9/28	2024/9/27
R&S	Spectrum Analyzer	FSV40	101590	2022/11/25	2023/11/24

** 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)
1.4MHz	1850.7	1880	1909.3
3MHz	1851.5	1880	1908.5
5MHz	1852.5	1880	1907.5
10MHz	1855	1880	1905
15MHz	1857.5	1880	1902.5
20MHz	1860	1880	1900

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		
1.4MHz QPSK	RB1#0	16.56	16.31	16.04	13.03	33
	RB1#3	16.57	16.35	16.14		
	RB1#5	16.52	16.32	16.05		
	RB3#0	16.61	16.39	16.21		
	RB3#3	16.63	16.4	16.26		
	RB6#0	15.7	15.44	15.28		
1.4MHz 16QAM	RB1#0	15.52	15.4	15.1	12.25	33
	RB1#3	15.58	15.49	15.17		
	RB1#5	15.54	15.37	15.1		
	RB3#0	15.85	15.41	15.31		
	RB3#3	15.85	15.41	15.31		
	RB6#0	14.77	14.5	14.21		
3MHz QPSK	RB1#0	16.48	16.19	16.08	12.91	33
	RB1#8	16.51	16.22	16.13		
	RB1#14	16.43	16.2	16		
	RB6#0	15.58	15.36	15.17		
	RB6#9	15.63	15.37	15.21		
	RB15#0	15.61	15.41	15.18		
3MHz 16QAM	RB1#0	15.44	15.84	15.17	12.29	33
	RB1#8	15.55	15.89	15.19		
	RB1#14	15.46	15.74	15.15		
	RB6#0	14.58	14.48	14.25		
	RB6#9	14.61	14.42	14.28		
	RB15#0	14.7	14.43	14.14		
5MHz QPSK	RB1#0	16.78	16.46	16.3	13.26	33
	RB1#13	16.86	16.61	16.42		
	RB1#24	16.76	16.49	16.28		
	RB15#0	15.77	15.5	15.35		
	RB15#10	15.78	15.52	15.23		
	RB25#0	15.76	15.5	15.29		
5MHz 16QAM	RB1#0	16.04	15.58	15.19	12.58	33
	RB1#13	16.18	15.64	15.25		
	RB1#24	16.06	15.56	15.22		
	RB15#0	14.72	14.55	14.4		
	RB15#10	14.75	14.56	14.26		
	RB25#0	14.79	14.54	14.36		
10MHz QPSK	RB1#0	16.74	16.59	16.36	13.17	33
	RB1#25	16.77	16.57	16.4		

	RB1#49	16.74	16.56	16.34		
	RB25#0	15.67	15.48	15.37		
	RB25#25	15.76	15.54	15.25		
	RB50#0	15.76	15.54	15.3		
10MHz 16QAM	RB1#0	16.4	15.76	15.35	12.84	33
	RB1#25	16.44	15.74	15.43		
	RB1#49	16.37	15.71	15.39		
	RB25#0	14.76	14.59	14.47		
	RB25#25	14.87	14.59	14.39		
	RB50#0	14.75	14.55	14.35		
15MHz QPSK	RB1#0	16.72	16.56	16.35	13.2	33
	RB1#38	16.8	16.58	16.47		
	RB1#74	16.7	16.48	16.37		
	RB36#0	15.66	15.55	15.35		
	RB36#39	15.79	15.55	15.3		
	RB75#0	15.73	15.53	15.32		
15MHz 16QAM	RB1#0	16.12	16.18	15.51	12.63	33
	RB1#38	16.23	16.22	15.59		
	RB1#74	16.15	16.07	15.51		
	RB36#0	14.7	14.56	14.4		
	RB36#39	14.79	14.55	14.32		
	RB75#0	14.7	14.56	14.35		
20MHz QPSK	RB1#0	16.62	16.55	16.33	13.21	33
	RB1#50	16.81	16.68	16.5		
	RB1#99	16.66	16.47	16.37		
	RB50#0	15.72	15.61	15.41		
	RB50#50	15.79	15.6	15.25		
	RB100#0	15.72	15.6	15.36		
20MHz 16QAM	RB1#0	16.23	15.84	15.53	12.79	33
	RB1#50	16.39	15.99	15.75		
	RB1#99	16.24	15.76	15.53		
	RB50#0	14.7	14.63	14.39		
	RB50#50	14.81	14.6	14.22		
	RB100#0	14.76	14.6	14.34		

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	6.67	6.81	6.43	13
	RB100#0	4.41	4.49	4.35	13
20MHz 16QAM	RB1#0	7.71	8.09	6.7	13
	RB100#0	6.03	6.06	5.97	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
1.4MHz QPSK	1.096	1.102	1.108	1.284	1.314	1.278
1.4MHz 16QAM	1.102	1.096	1.096	1.302	1.284	1.284
3MHz QPSK	2.683	2.683	2.683	2.928	2.94	2.916
3MHz 16QAM	2.683	2.671	2.671	2.94	2.94	2.952
5MHz QPSK	4.511	4.511	4.511	4.96	4.92	4.96
5MHz 16QAM	4.491	4.511	4.511	4.9	4.94	4.96
10MHz QPSK	8.942	8.942	8.942	9.6	9.68	9.68
10MHz 16QAM	8.942	8.942	8.942	9.64	9.64	9.56
15MHz QPSK	13.473	13.473	13.533	14.58	14.7	14.64
15MHz 16QAM	13.473	14.473	13.473	14.52	14.64	14.58
20MHz QPSK	17.884	18.044	17.884	19.2	19.44	19.2
20MHz 16QAM	17.884	17.964	17.964	19.2	19.28	19.2
Note: The test plots please refer to the Plots of Occupied Bandwidth						

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

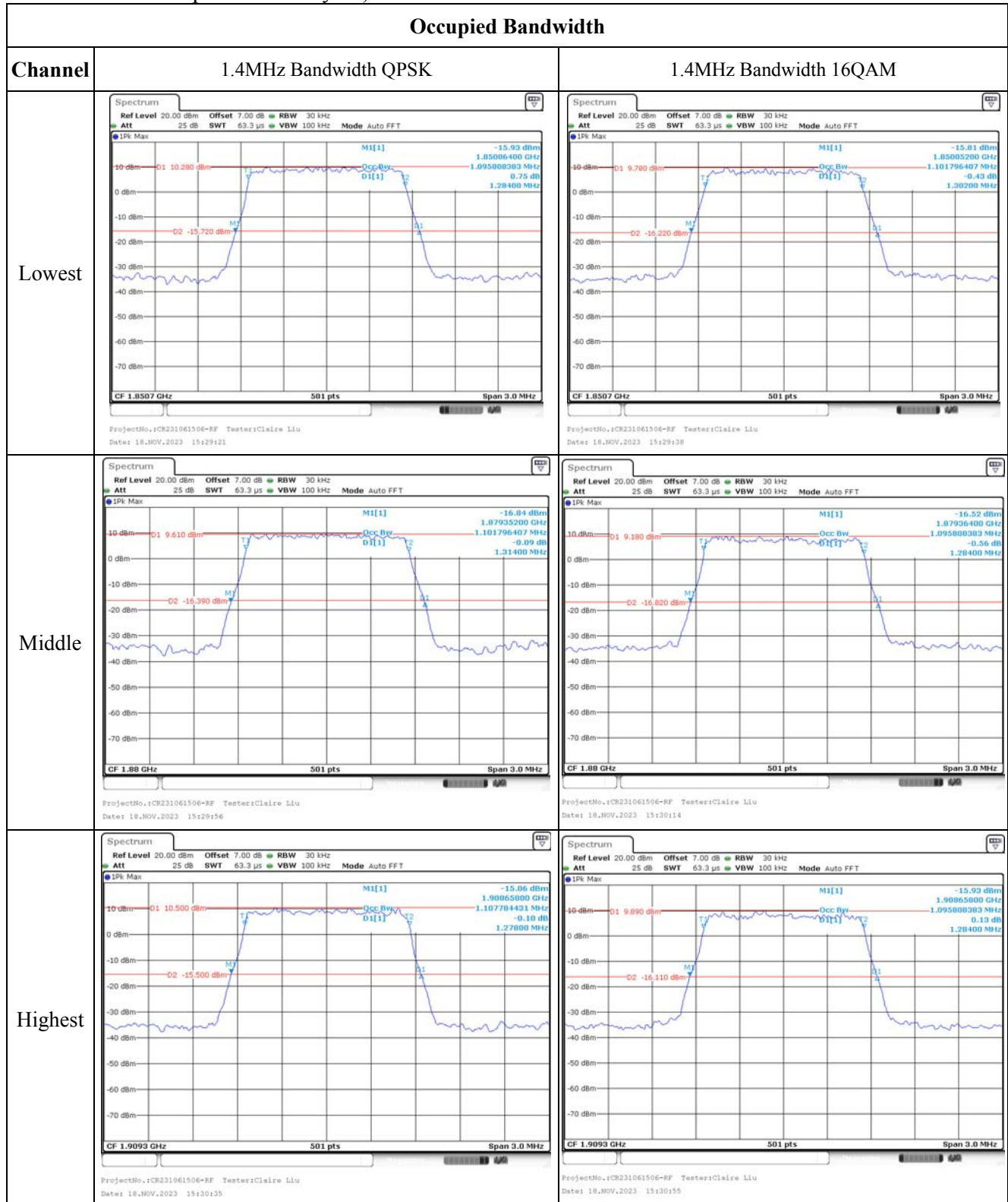
Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

Frequency Stability

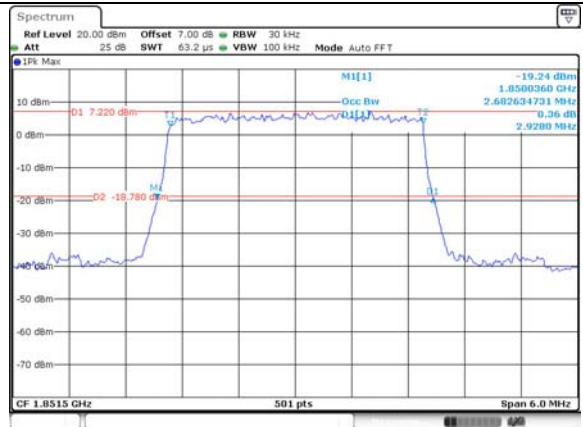
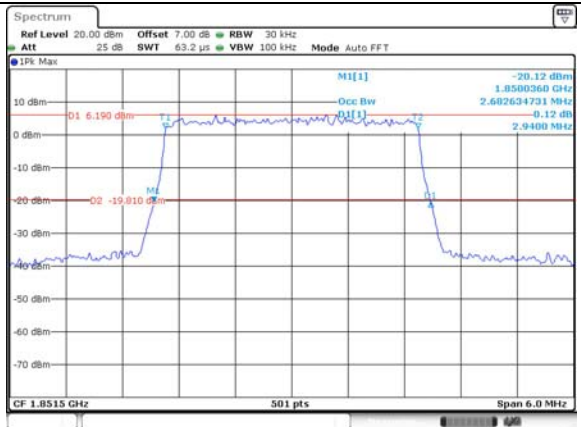
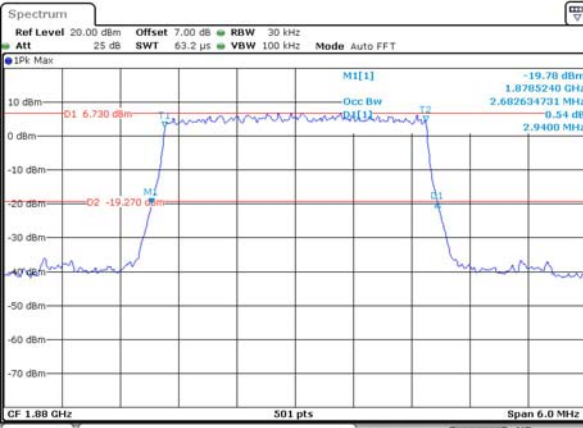
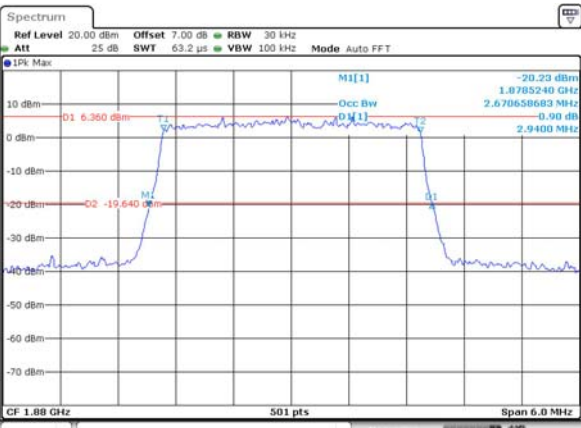
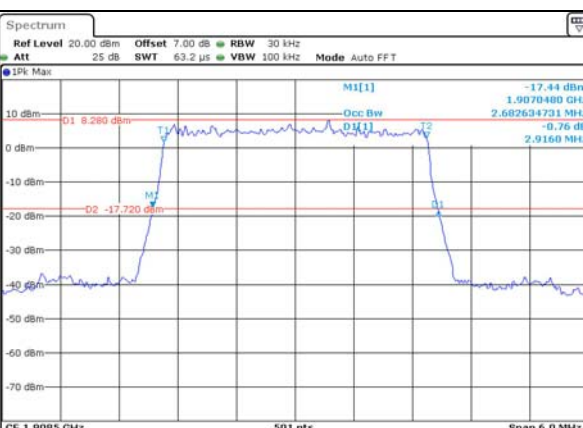
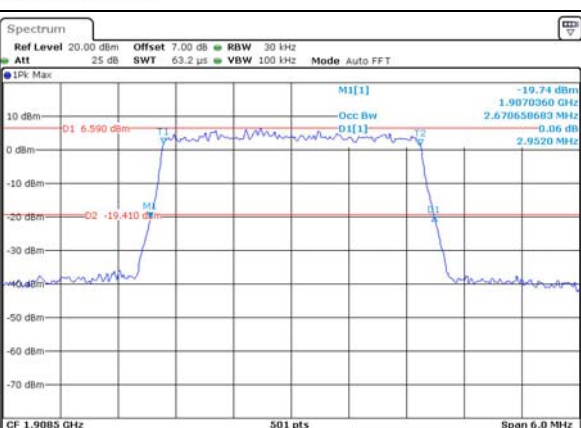
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1850.513	1850.000	1909.505	1910.000
	-20	3.91	1850.483	1850.000	1909.520	1910.000
	-10	3.91	1850.569	1850.000	1909.546	1910.000
	0	3.91	1850.529	1850.000	1909.543	1910.000
	10	3.91	1850.485	1850.000	1909.596	1910.000
	20	3.91	1850.480	1850.000	1909.600	1910.000
	30	3.91	1850.503	1850.000	1909.541	1910.000
	40	3.91	1850.570	1850.000	1909.511	1910.000
Frequency Stability vs. Voltage	20	3.45	1850.553	1850.000	1909.526	1910.000
	20	4.5	1850.532	1850.000	1909.545	1910.000
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	1850.429	1850.000	1909.524	1910.000
	-20	3.91	1850.419	1850.000	1909.519	1910.000
	-10	3.91	1850.467	1850.000	1909.598	1910.000
	0	3.91	1850.440	1850.000	1909.512	1910.000
	10	3.91	1850.476	1850.000	1909.511	1910.000
	20	3.91	1850.400	1850.000	1909.600	1910.000
	30	3.91	1850.450	1850.000	1909.542	1910.000
	40	3.91	1850.446	1850.000	1909.535	1910.000
	50	3.91	1850.437	1850.000	1909.572	1910.000
Frequency Stability vs. Voltage	20	3.45	1850.478	1850.000	1909.600	1910.000
	20	4.5	1850.460	1850.000	1909.500	1910.000
					Result:	Pass

Test Plots(Note: The 7dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):



Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:31:47	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:32:04
Middle	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:32:23	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:32:37
Highest	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:32:58	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:33:15

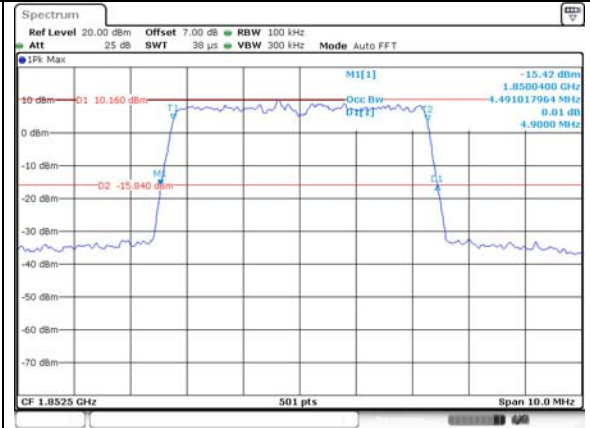
Occupied Bandwidth

Channel

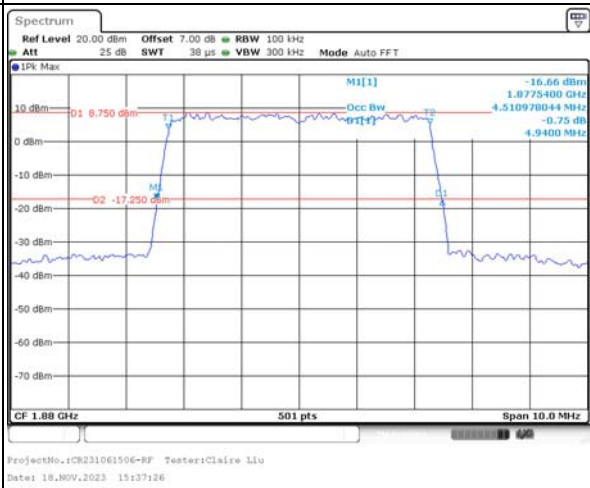
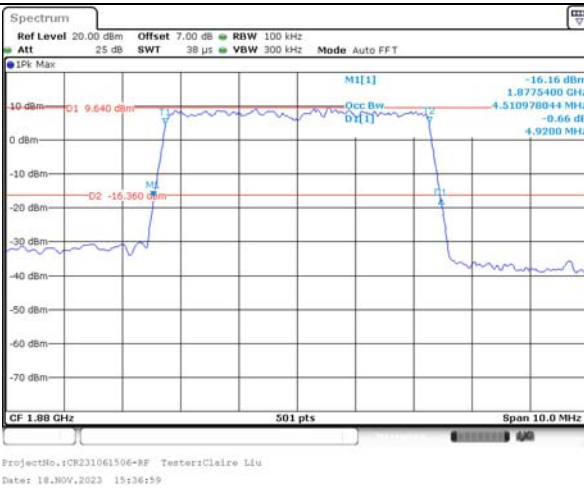
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

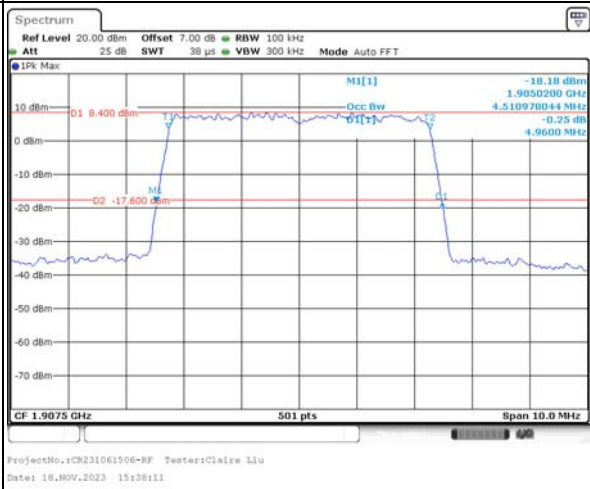
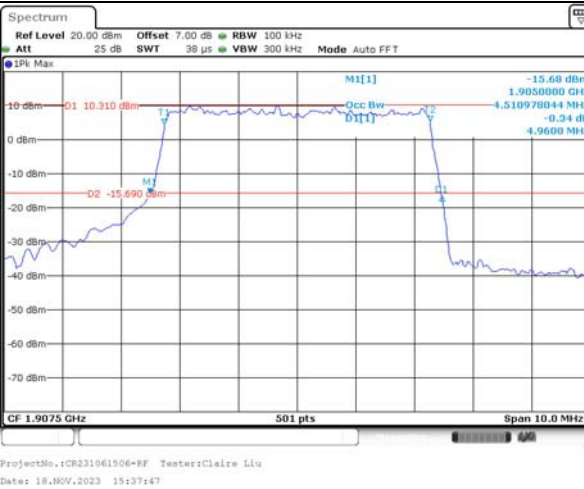
Lowest



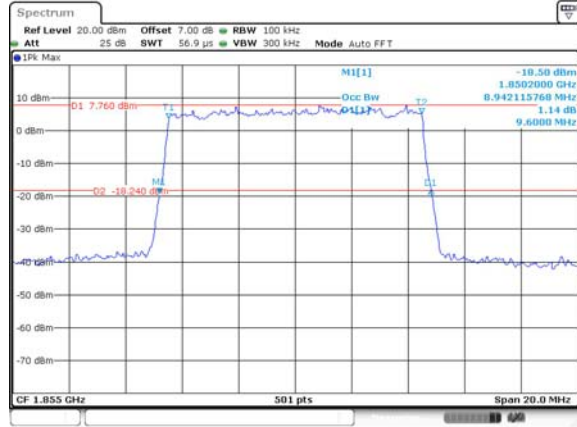
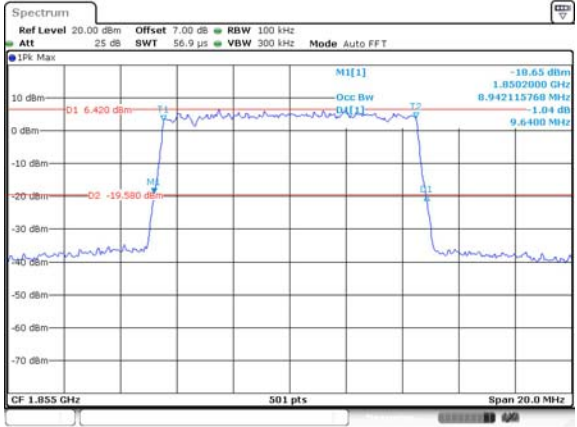
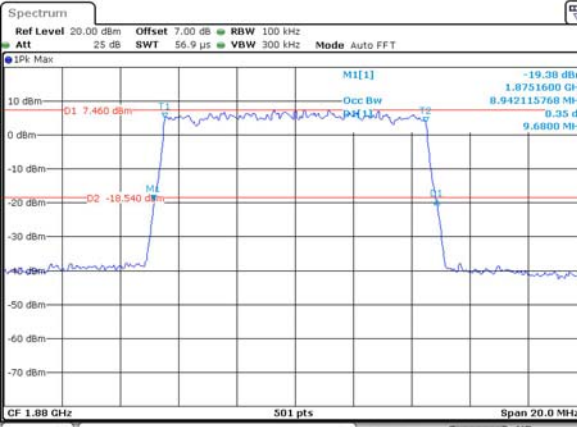
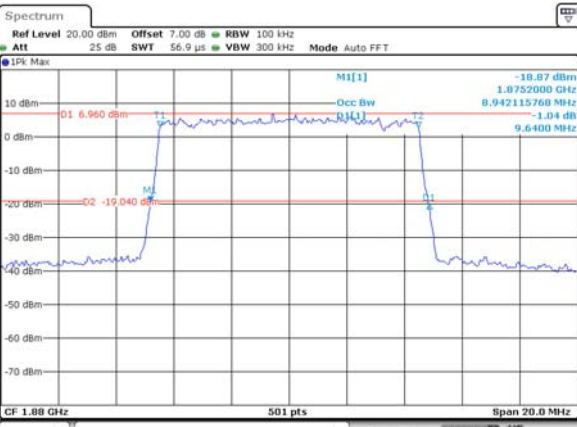
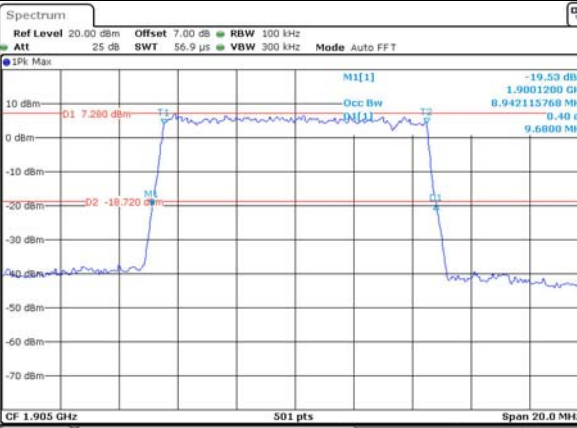
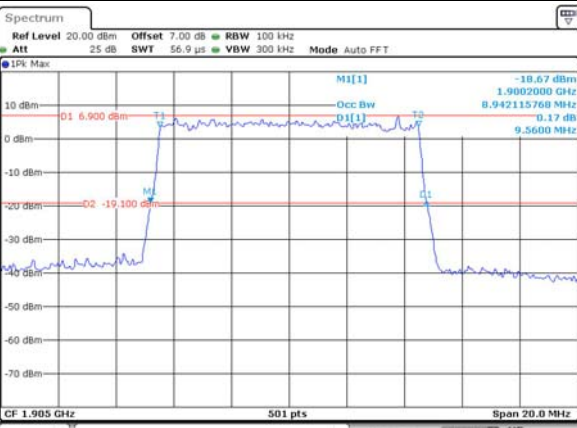
Middle



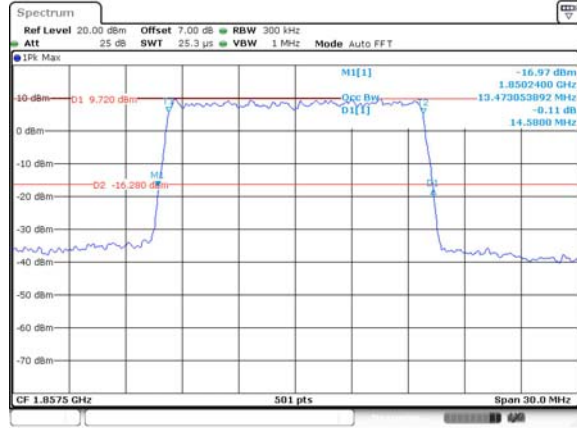
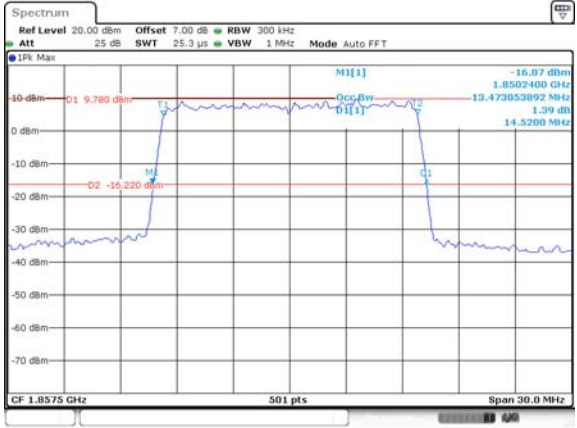
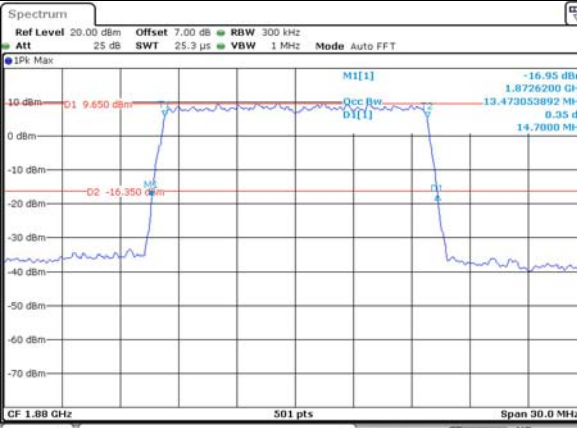
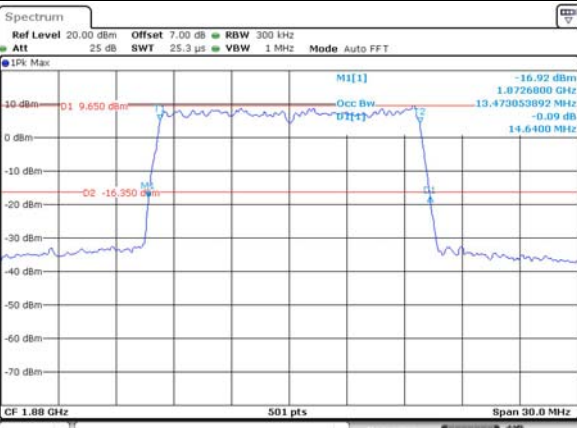
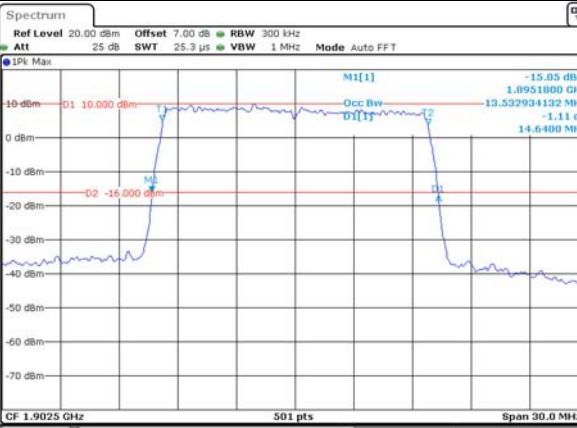
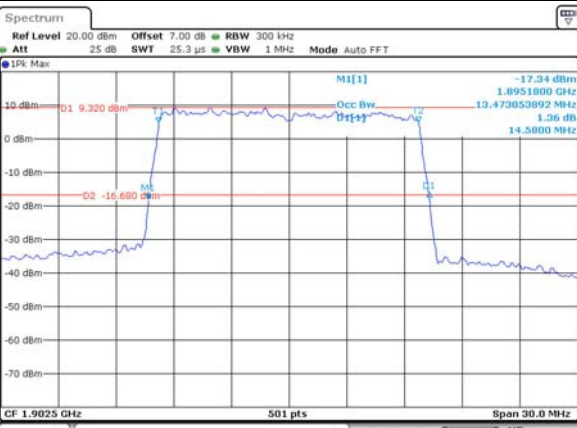
Highest



Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:40:58	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:41:22
Middle	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:41:50	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:42:20
Highest	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:42:45	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:43:13

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:44:55	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:45:29
Middle	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:45:58	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:46:26
Highest	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:46:59	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:47:33

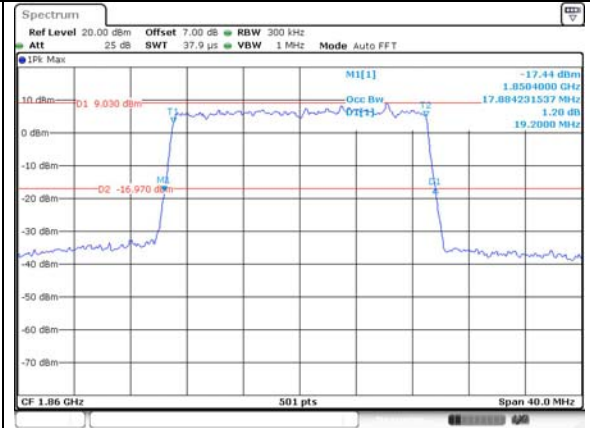
Occupied Bandwidth

Channel

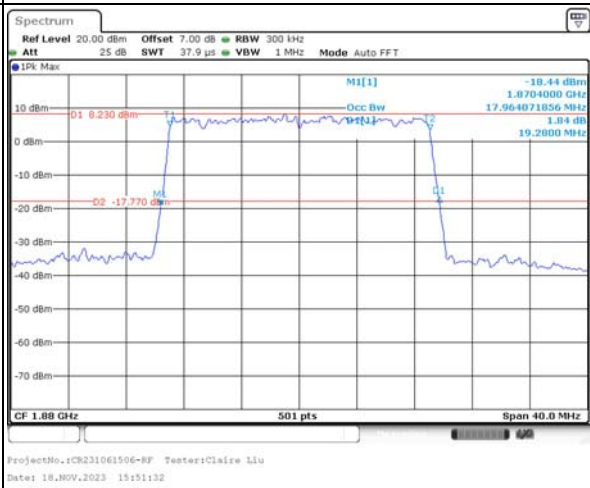
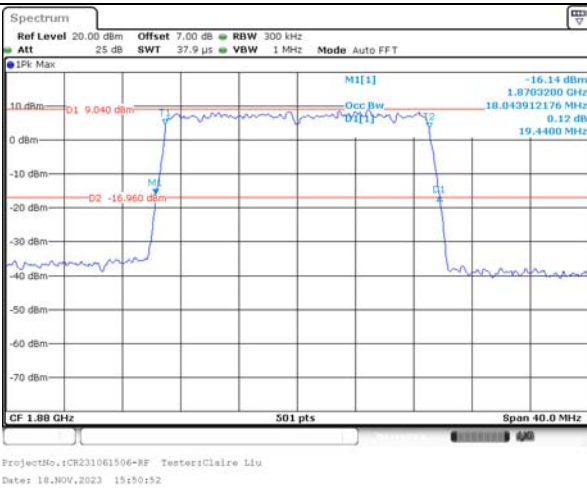
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

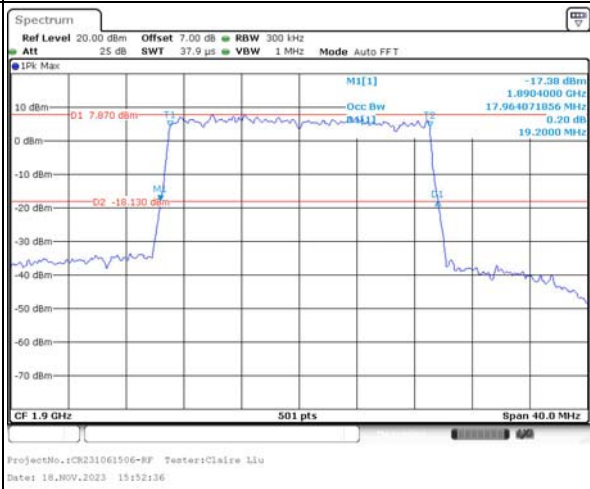
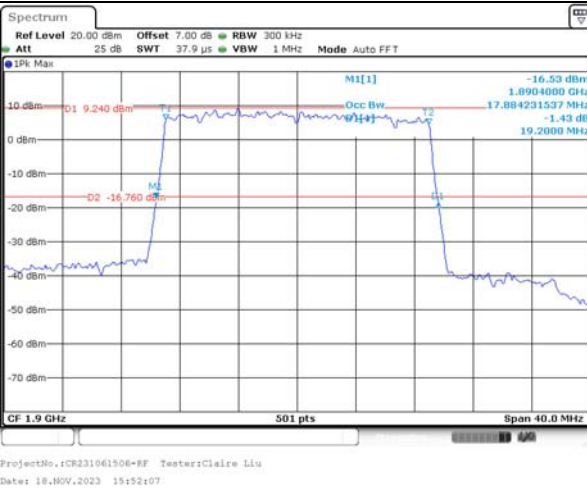
Lowest



Middle



Highest

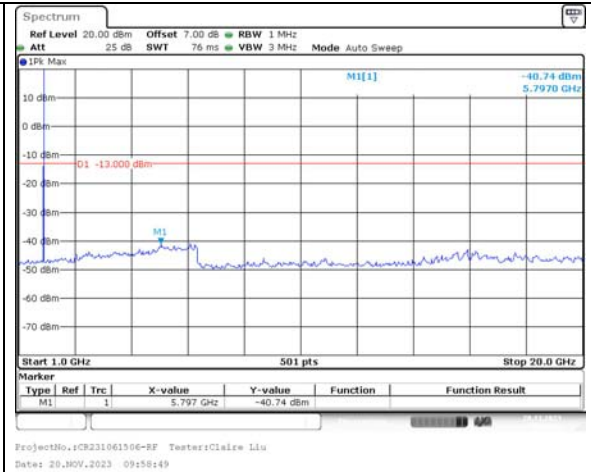
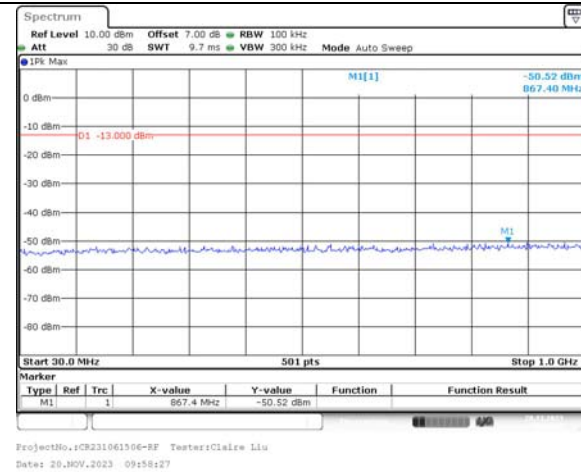


Spurious Emissions at Antenna Terminal

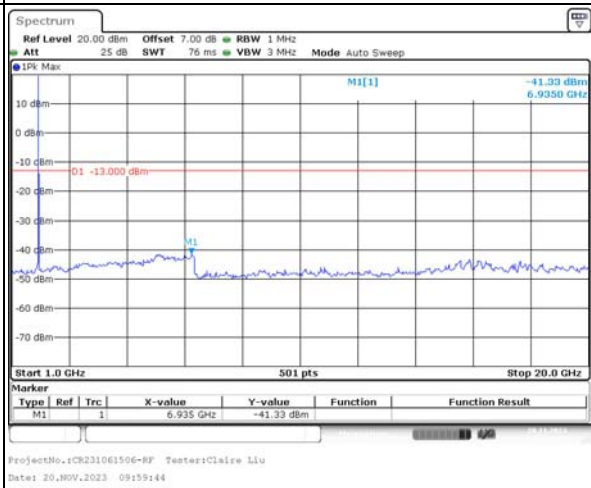
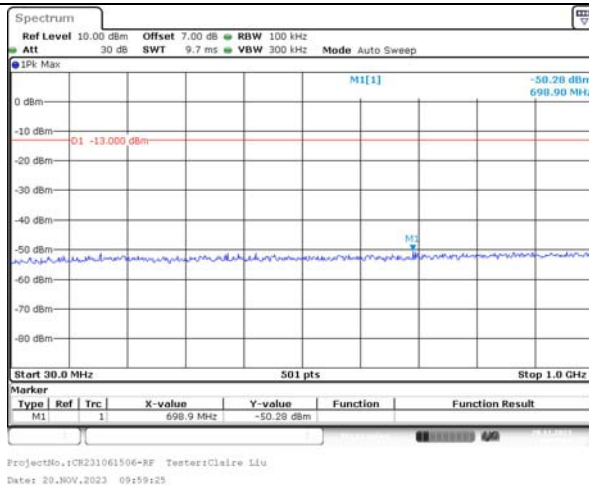
Channel

1.4MHz Bandwidth QPSK

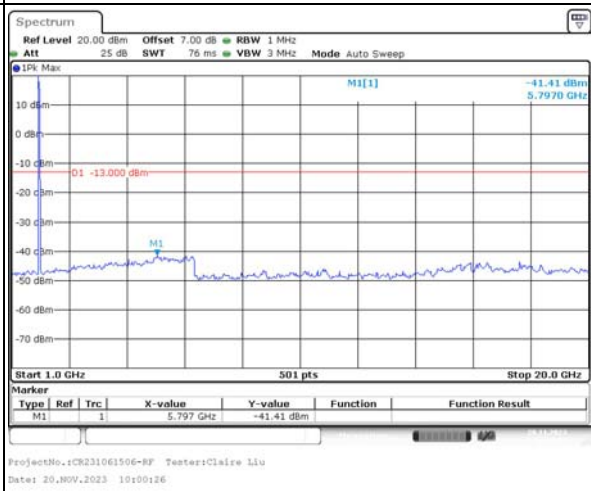
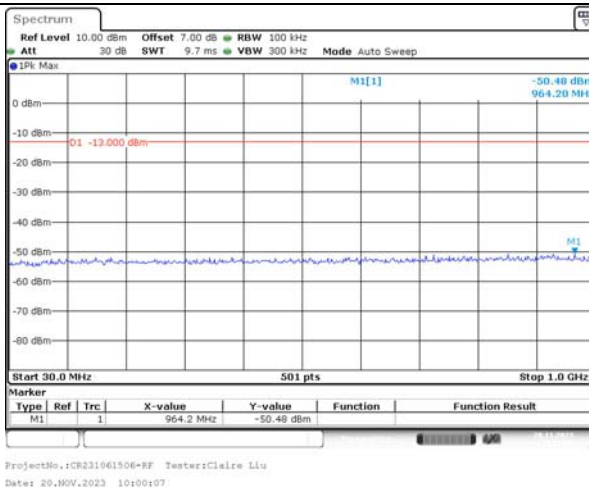
Lowest



Middle



Highest

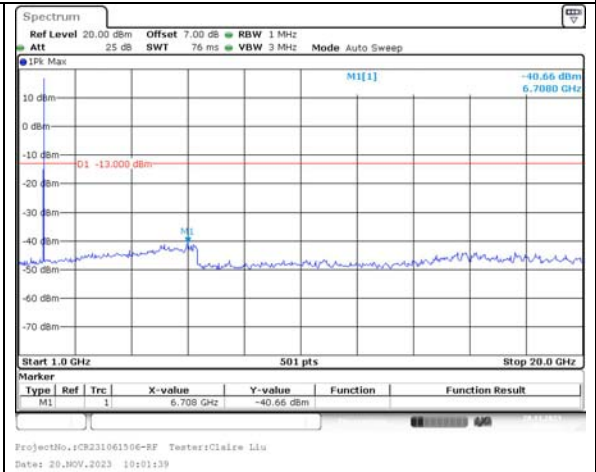
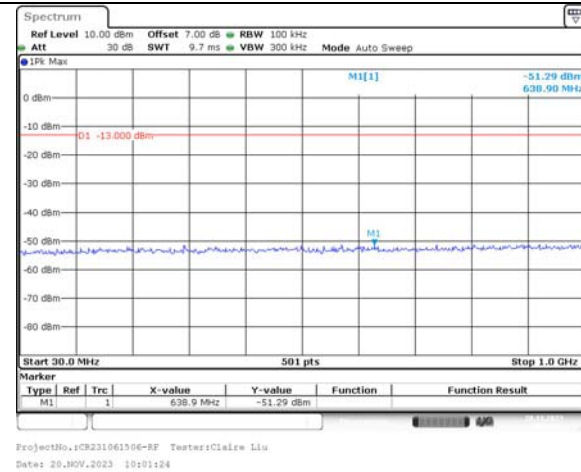


Spurious Emissions at Antenna Terminal

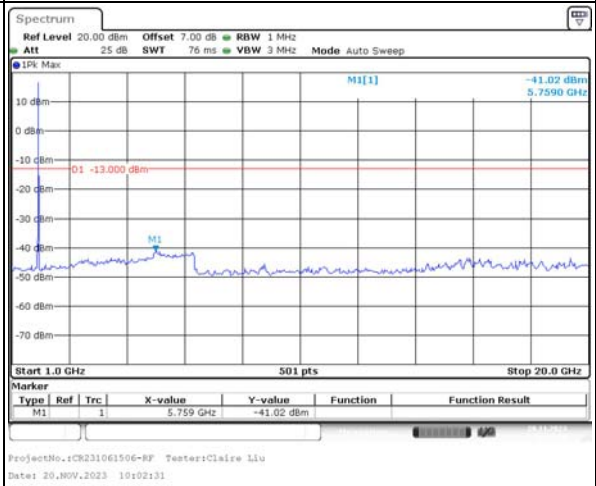
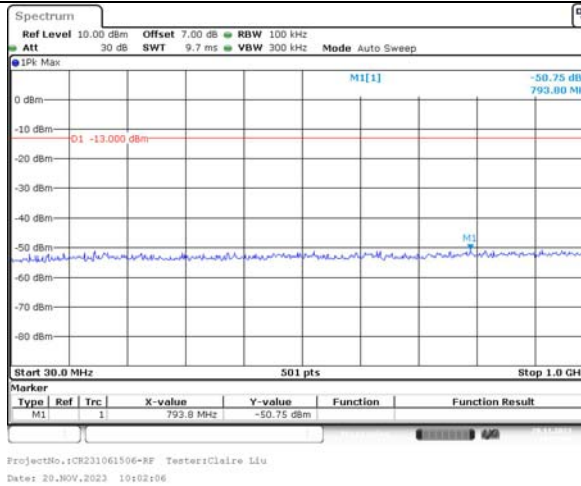
Channel

3MHz Bandwidth QPSK

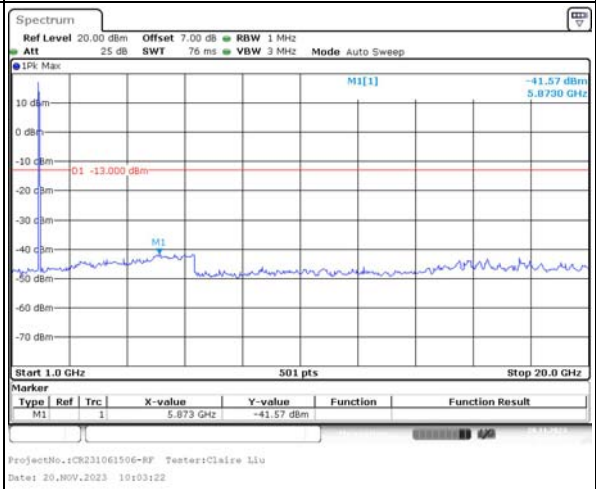
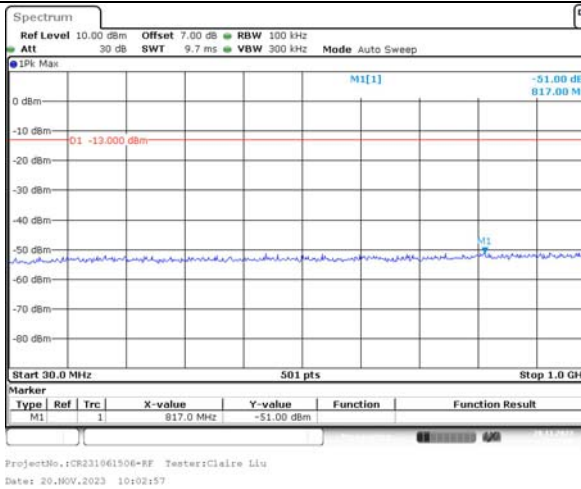
Lowest



Middle



Highest

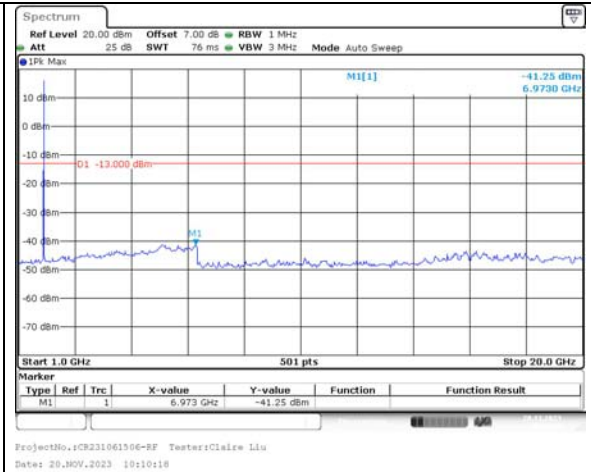
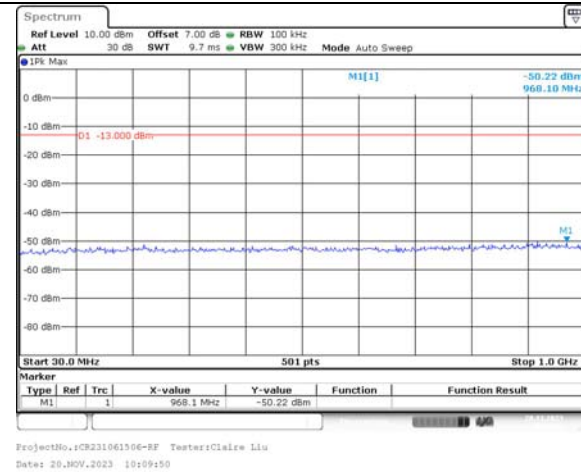


Spurious Emissions at Antenna Terminal

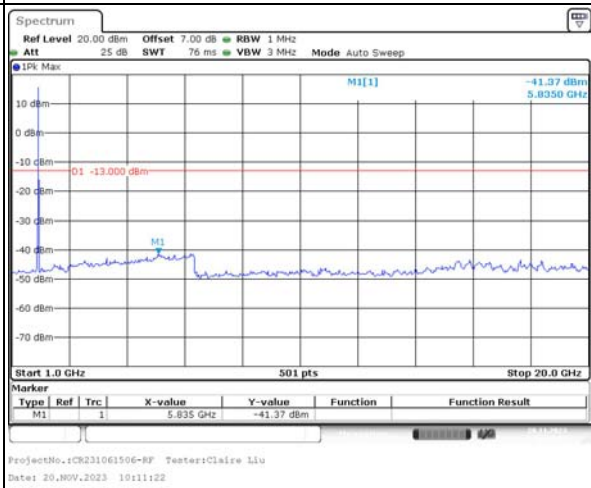
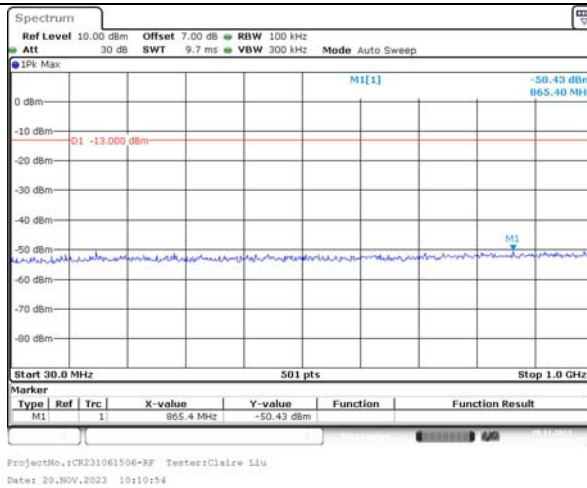
Channel

5MHz Bandwidth QPSK

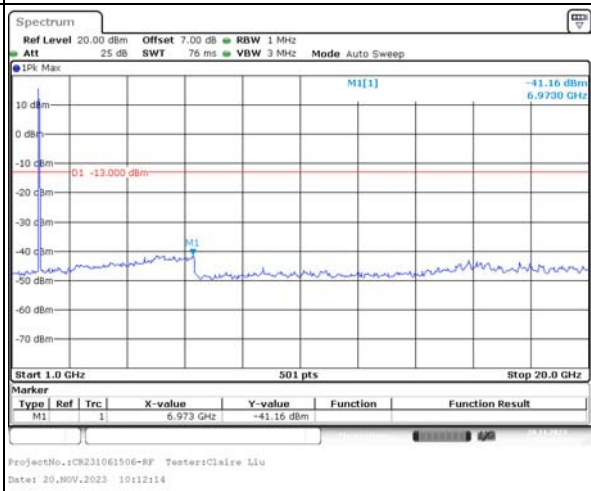
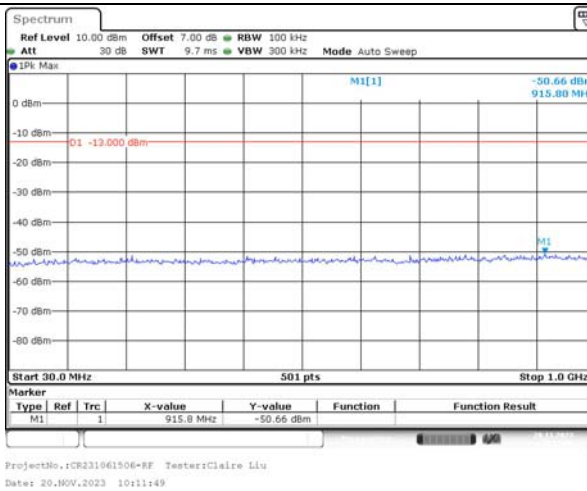
Lowest



Middle



Highest

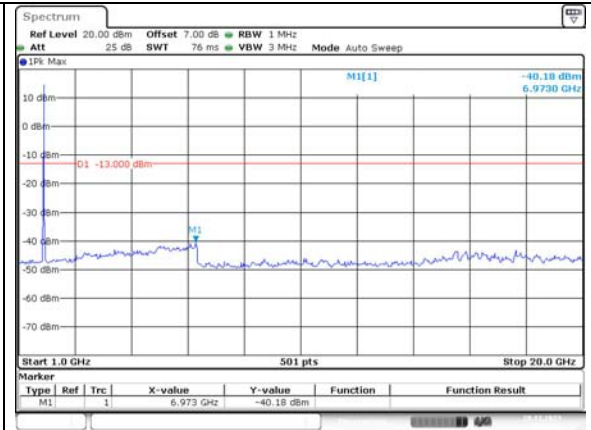
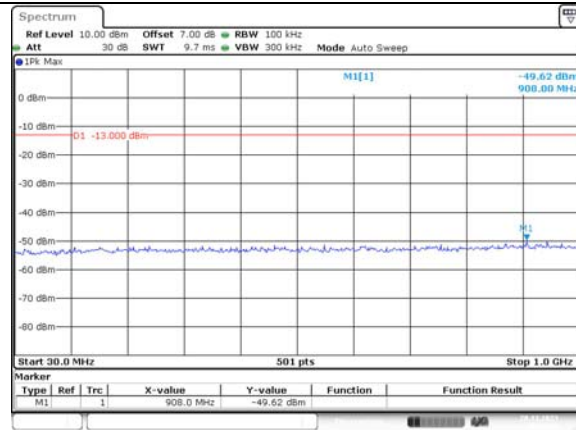


Spurious Emissions at Antenna Terminal

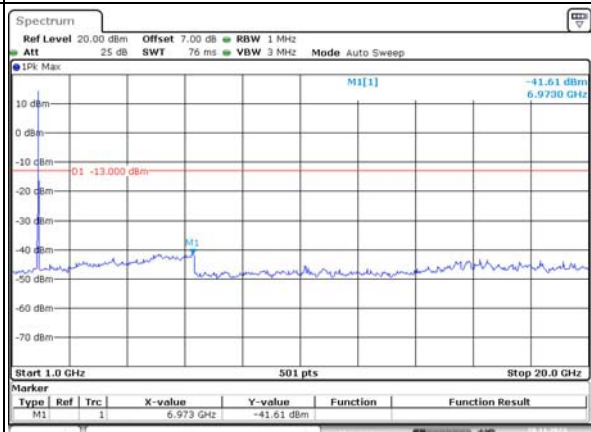
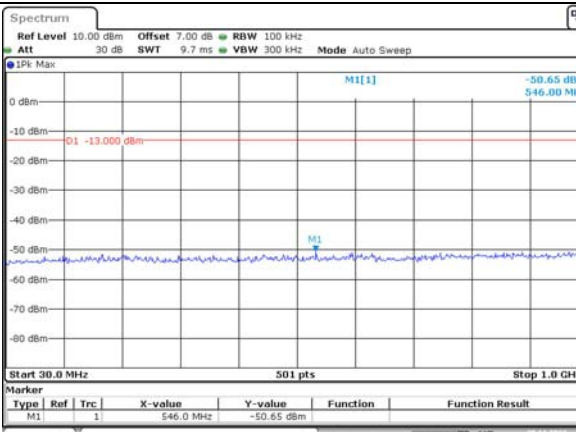
Channel

10MHz Bandwidth QPSK

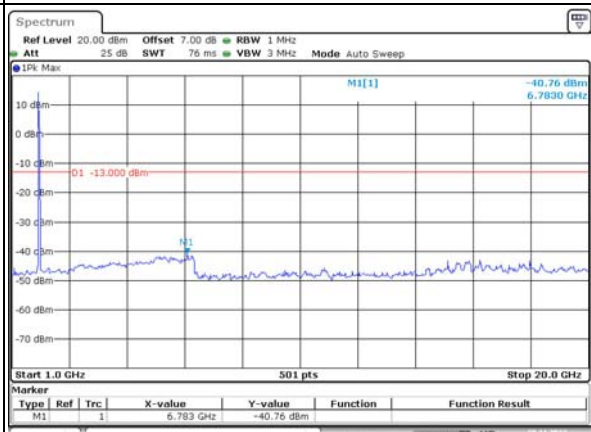
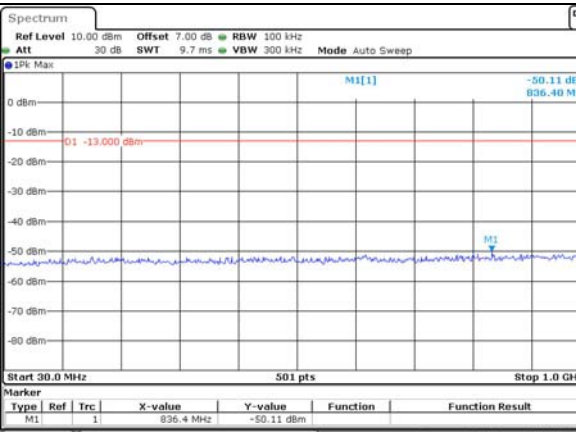
Lowest



Middle



Highest

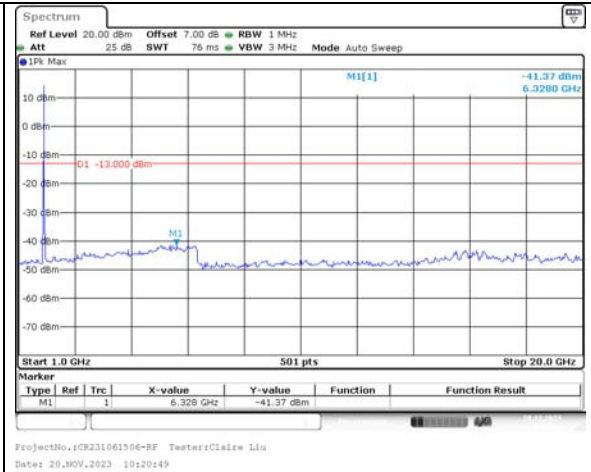
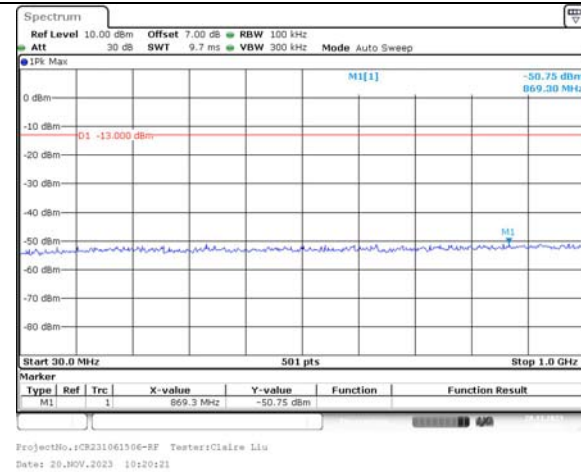


Spurious Emissions at Antenna Terminal

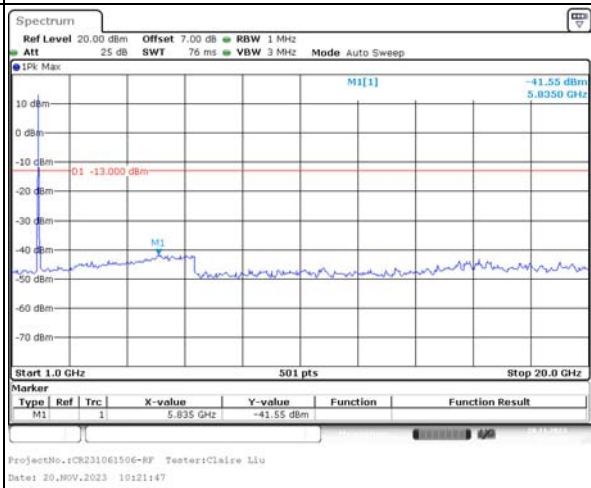
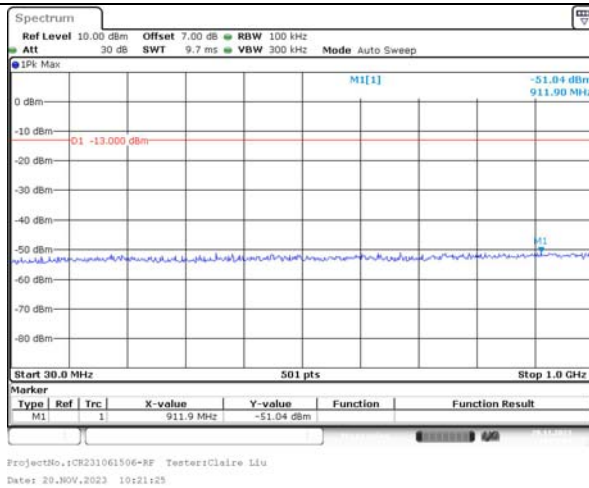
Channel

15MHz Bandwidth QPSK

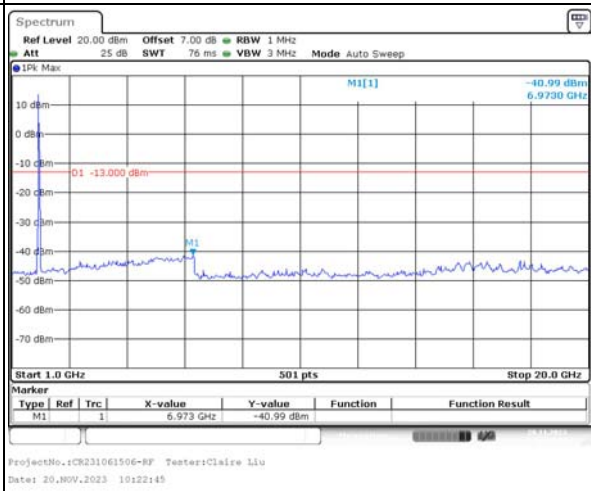
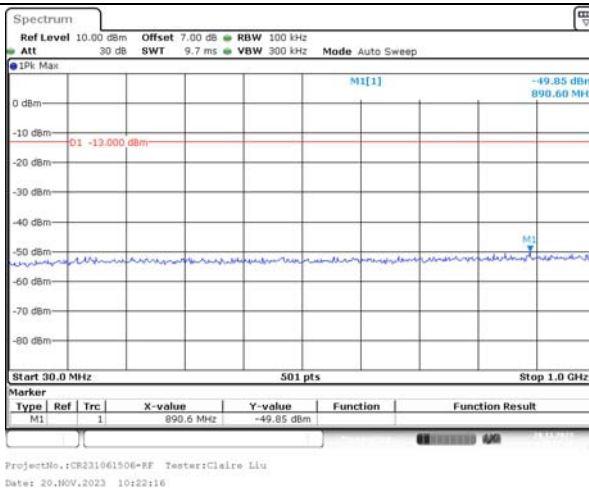
Lowest



Middle



Highest

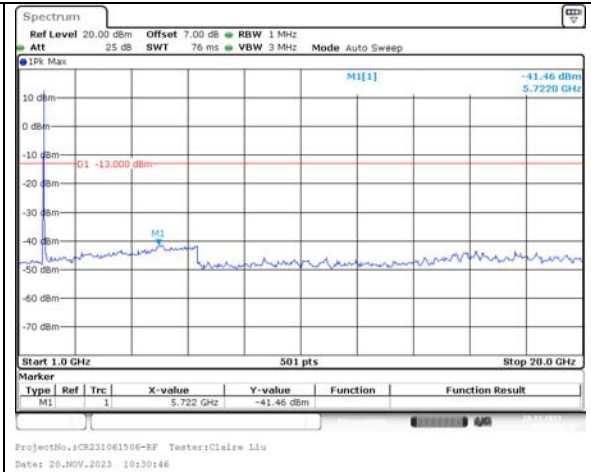
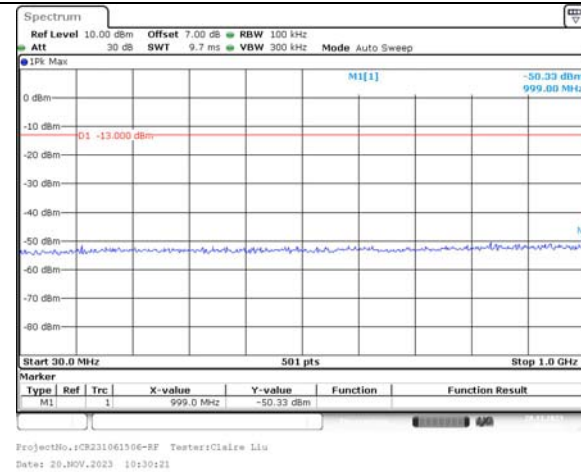


Spurious Emissions at Antenna Terminal

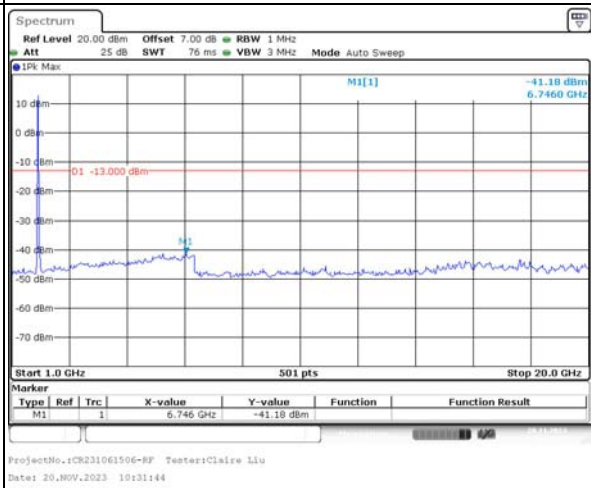
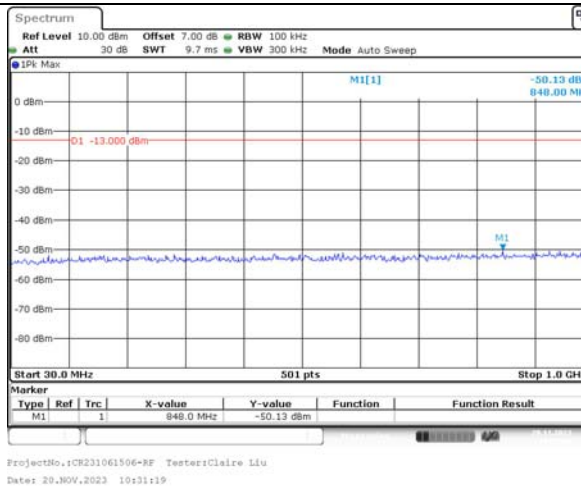
Channel

20MHz Bandwidth QPSK

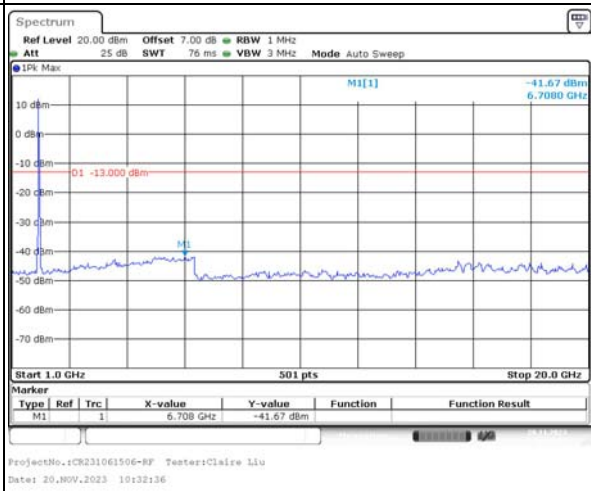
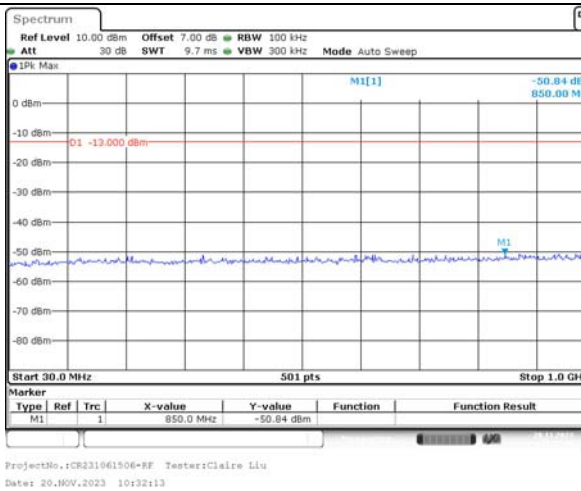
Lowest



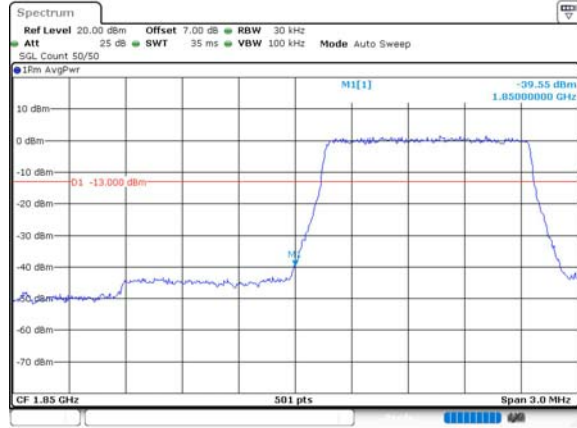
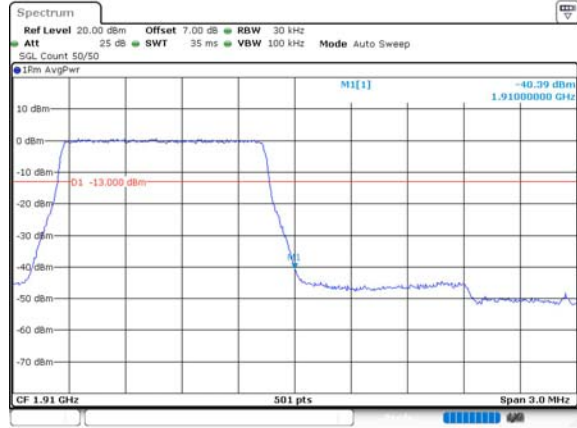
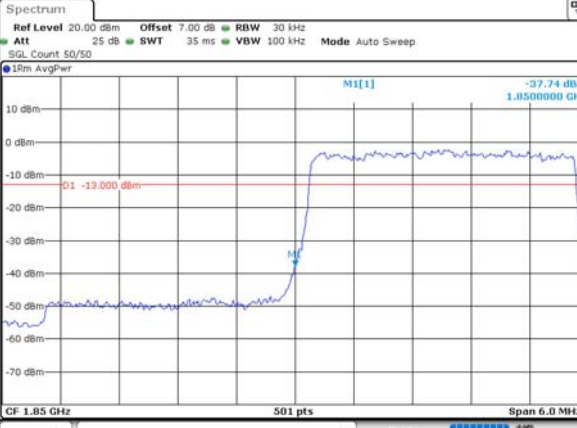
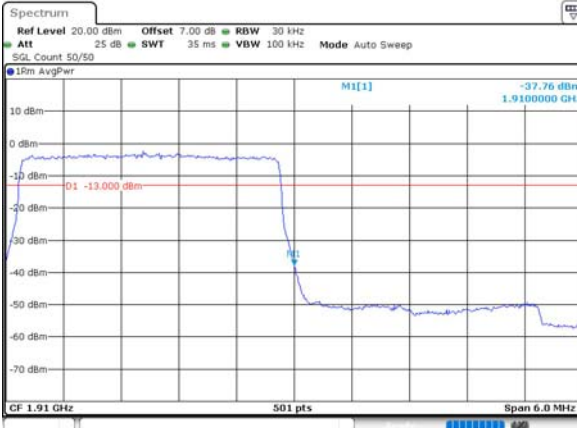
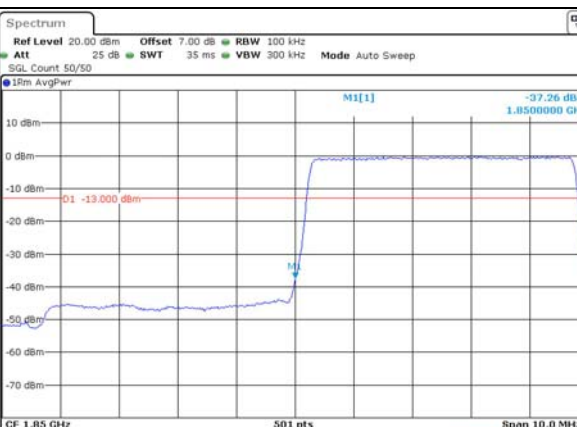
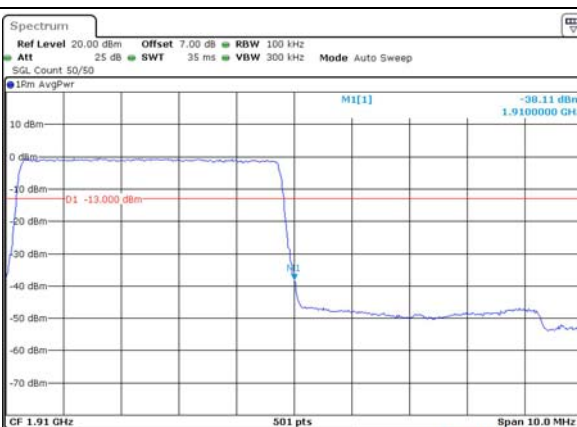
Middle



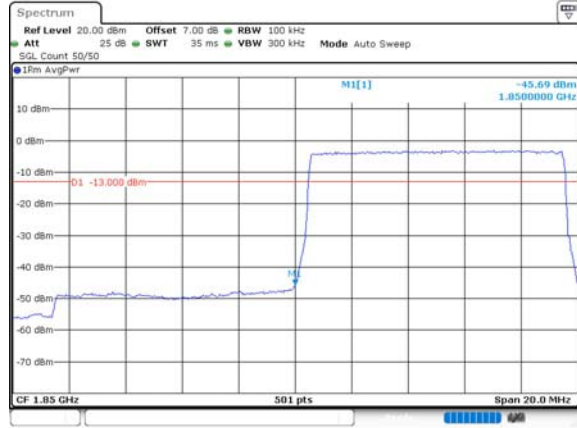
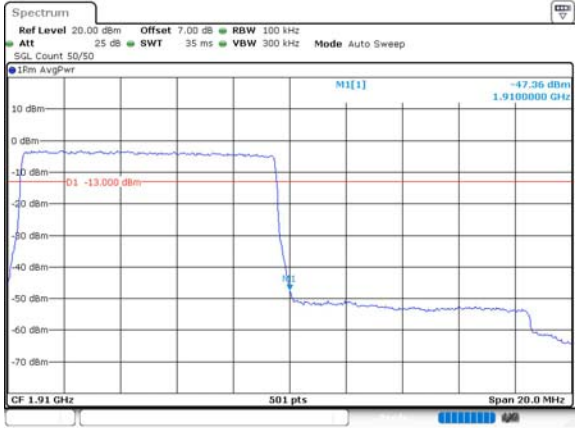
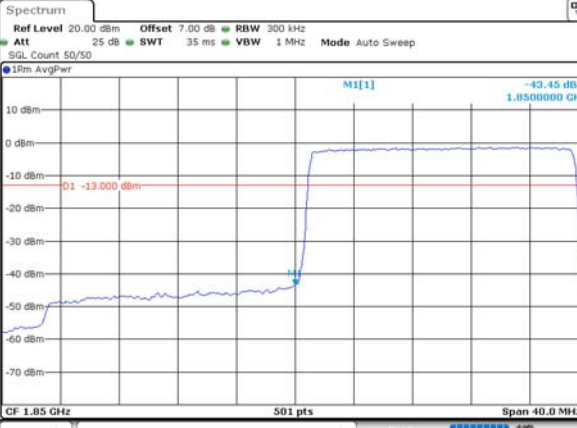
Highest



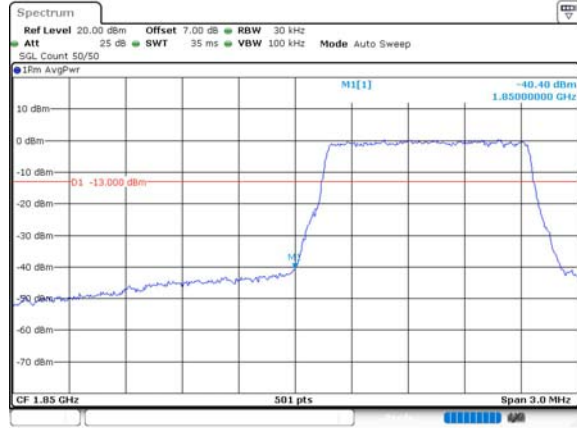
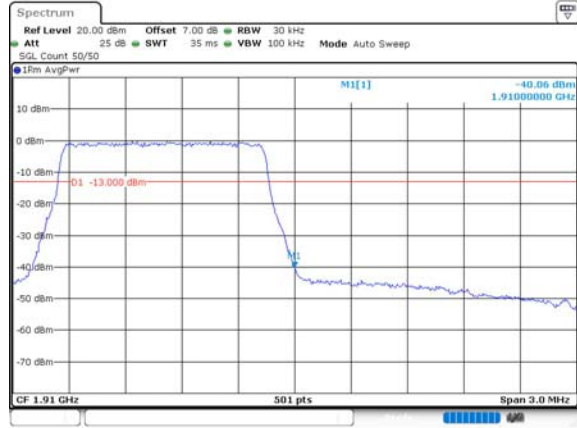
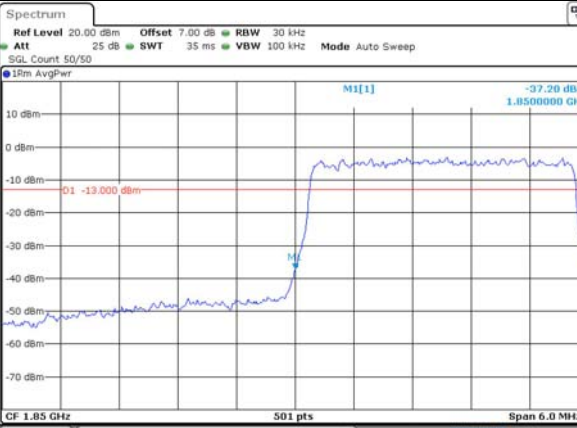
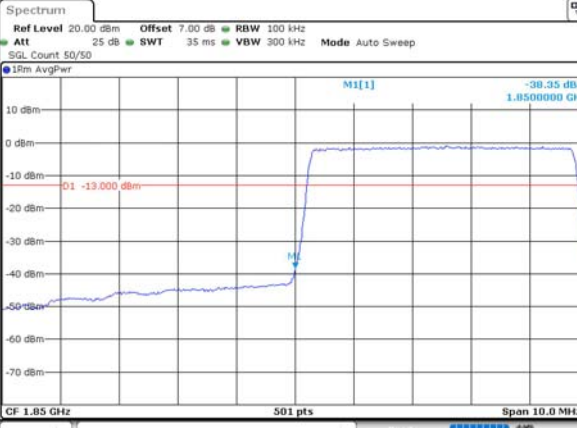
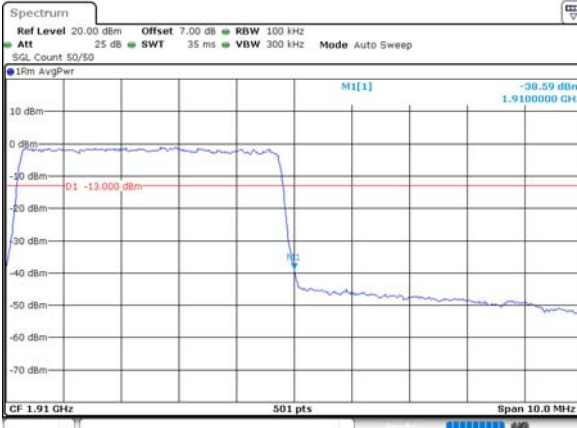
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 17:39:48	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 17:40:02
QPSK 3MHz	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 17:40:42	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 17:40:56
QPSK 5MHz	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 17:41:36	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 17:41:52

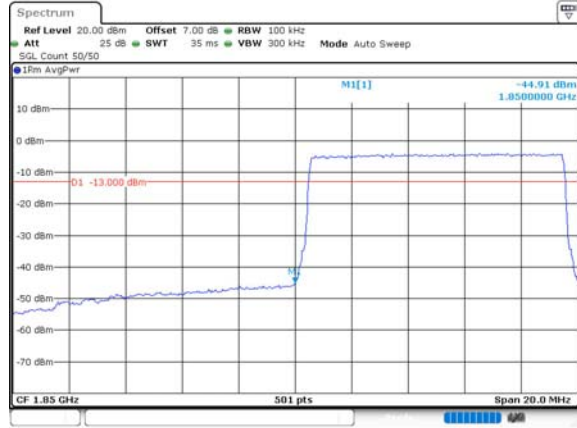
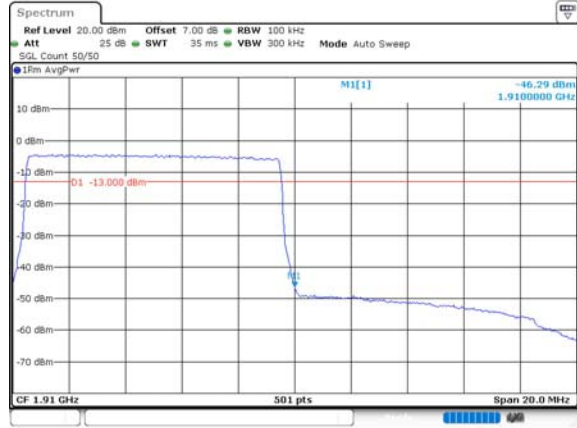
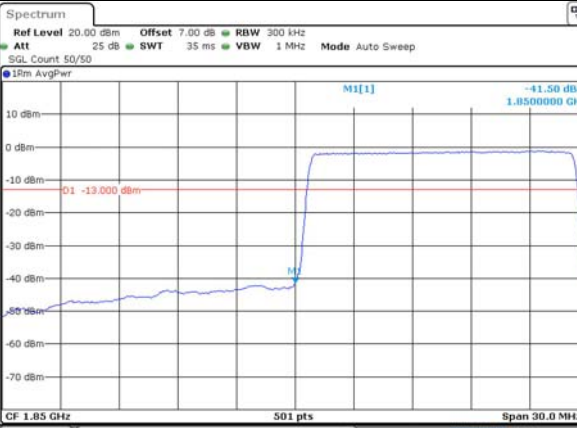
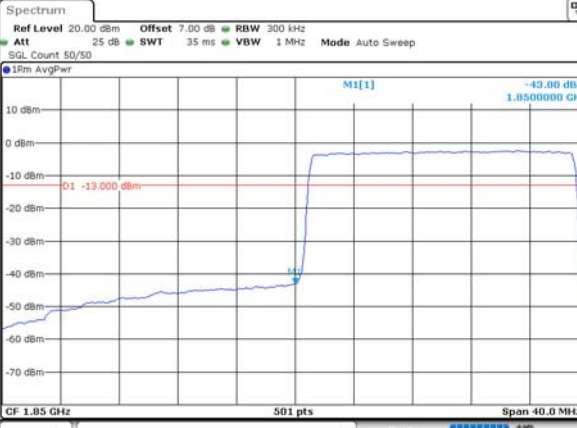
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz	 ProjectNo.: CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:42:33	 ProjectNo.: CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:42:50
QPSK 15MHz	 ProjectNo.: CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:49:36	 ProjectNo.: CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:49:56
QPSK 20MHz	 ProjectNo.: CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:50:42	 ProjectNo.: CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:51:03

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	 ProjectNo.:CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:39:54	 ProjectNo.:CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:40:08
16QAM 3MHz	 ProjectNo.:CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:40:48	 ProjectNo.:CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:41:03
16QAM 5MHz	 ProjectNo.:CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:41:43	 ProjectNo.:CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:41:59

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz	 ProjectNo.: CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:42:41	 ProjectNo.: CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:42:58
16QAM 15MHz	 ProjectNo.: CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:49:45	 ProjectNo.: CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:50:06
16QAM 20MHz	 ProjectNo.: CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:50:52	 ProjectNo.: CR231061506-RF Tester: Claire Liu Date: 18.NOV.2023 17:51:13

4.7 Antenna Port Test Data and Results for LTE Band 4

Serial Number:	2CII-1	Test Date:	2023/11/18-2023/11/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5~26.5	Relative Humidity: (%)	54~64	ATM Pressure: (kPa)	100.1~102
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101590	2023/11/16	2024/11/15
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Minl-Circuits	Power Splitter	ZFRSC-183-S+	S F448201619	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	2023/9/28	2024/9/27
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	2023/9/28	2024/9/27

** 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)
1.4MHz	1710.7	1732.5	1754.3
3MHz	1711.5	1732.5	1753.5
5MHz	1712.5	1732.5	1752.5
10MHz	1715	1732.5	1750
15MHz	1717.5	1732.5	1747.5
20MHz	1720	1732.5	1745

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		
1.4MHz QPSK	RB1#0	15.86	15.79	15.65	12.49	30
	RB1#3	15.87	15.81	15.71		
	RB1#5	15.86	15.77	15.58		
	RB3#0	15.99	15.88	15.75		
	RB3#3	15.96	15.87	15.79		
	RB6#0	15.04	15	14.87		
1.4MHz 16QAM	RB1#0	14.91	14.94	14.72	11.77	30
	RB1#3	14.97	15.03	14.79		
	RB1#5	14.92	14.94	14.75		
	RB3#0	15.18	14.95	14.93		
	RB3#3	15.27	14.97	14.9		
	RB6#0	14.12	14.07	13.86		
3MHz QPSK	RB1#0	15.71	15.57	15.55	12.37	30
	RB1#8	15.87	15.68	15.63		
	RB1#14	15.72	15.59	15.53		
	RB6#0	14.94	14.92	14.78		
	RB6#9	15.03	14.87	14.74		
	RB15#0	14.96	14.87	14.74		
3MHz 16QAM	RB1#0	14.81	15.3	14.74	11.89	30
	RB1#8	14.95	15.39	14.85		
	RB1#14	14.84	15.2	14.75		
	RB6#0	13.94	14.01	13.81		
	RB6#9	13.99	13.96	13.87		
	RB15#0	14.05	13.97	13.72		
5MHz QPSK	RB1#0	15.95	15.85	15.8	12.66	30
	RB1#13	16.16	15.97	15.89		
	RB1#24	16.09	15.84	15.8		
	RB15#0	15.08	14.97	14.86		
	RB15#10	15.15	14.96	14.86		
	RB25#0	15.12	14.98	14.86		
5MHz 16QAM	RB1#0	15.35	15.06	14.75	12.02	30
	RB1#13	15.52	15.17	14.91		
	RB1#24	15.42	15.03	14.81		
	RB15#0	14.06	13.97	13.95		
	RB15#10	14.18	13.96	13.92		
	RB25#0	14.17	14.03	13.94		
10MHz QPSK	RB1#0	15.96	15.91	15.84	12.64	30
	RB1#25	16.14	15.94	15.92		
	RB1#49	16.06	15.91	15.91		

	RB25#0	15.02	14.95	14.86		
	RB25#25	15.13	15	14.9		
	RB50#0	15.16	14.99	14.92		
10MHz 16QAM	RB1#0	15.06	15.63	15.05	12.16	30
	RB1#25	15.19	15.66	15.16		
	RB1#49	15.15	15.61	15.11		
	RB25#0	14.17	14.03	13.94		
	RB25#25	14.3	14.08	14.01		
	RB50#0	14.19	14.04	13.94		
15MHz QPSK	RB1#0	15.95	15.93	15.72	12.68	30
	RB1#38	16.18	15.99	15.88		
	RB1#74	16.06	15.89	15.83		
	RB36#0	15.06	14.94	14.84		
	RB36#39	15.12	14.97	14.93		
	RB75#0	15.07	14.97	14.88		
15MHz 16QAM	RB1#0	15.14	15.4	15.46	12.11	30
	RB1#38	15.35	15.5	15.61		
	RB1#74	15.24	15.38	15.57		
	RB36#0	14.11	13.96	13.9		
	RB36#39	14.19	13.96	13.94		
	RB75#0	14.12	13.96	13.91		
20MHz QPSK	RB1#0	15.88	15.8	15.74	12.58	30
	RB1#50	16.08	15.99	15.93		
	RB1#99	15.94	15.8	15.86		
	RB50#0	15.05	14.96	14.91		
	RB50#50	15.22	15.03	14.93		
	RB100#0	15.12	14.93	14.87		
20MHz 16QAM	RB1#0	15.16	15.51	15.14	12.15	30
	RB1#50	15.42	15.65	15.35		
	RB1#99	15.24	15.49	15.25		
	RB50#0	14.1	13.92	13.9		
	RB50#50	14.28	13.99	13.88		
	RB100#0	14.13	13.98	13.9		

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	6.67	6.87	5.83	13
	RB100#0	4.67	4.41	4.35	13
20MHz 16QAM	RB1#0	6.72	6.87	6.87	13
	RB100#0	6.23	6.17	5.91	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
1.4MHz QPSK	1.108	1.096	1.102	1.278	1.284	1.302
1.4MHz 16QAM	1.096	1.101	1.096	1.296	1.302	1.278
3MHz QPSK	2.683	2.683	2.683	2.928	2.94	2.916
3MHz 16QAM	2.683	2.671	2.671	2.94	2.94	2.952
5MHz QPSK	4.511	4.491	4.511	4.92	4.92	4.94
5MHz 16QAM	4.511	4.531	4.511	4.94	4.94	4.94
10MHz QPSK	8.942	8.942	8.942	9.6	9.64	9.72
10MHz 16QAM	8.942	8.942	8.942	9.64	9.64	9.6
15MHz QPSK	13.413	13.473	13.413	14.64	14.64	14.58
15MHz 16QAM	13.473	13.532	13.473	14.52	14.64	14.58
20MHz QPSK	17.964	17.884	17.964	19.28	19.28	19.2
20MHz 16QAM	17.964	17.964	17.964	19.28	19.36	19.28
Note: The test plots please refer to the Plots of Occupied Bandwidth						

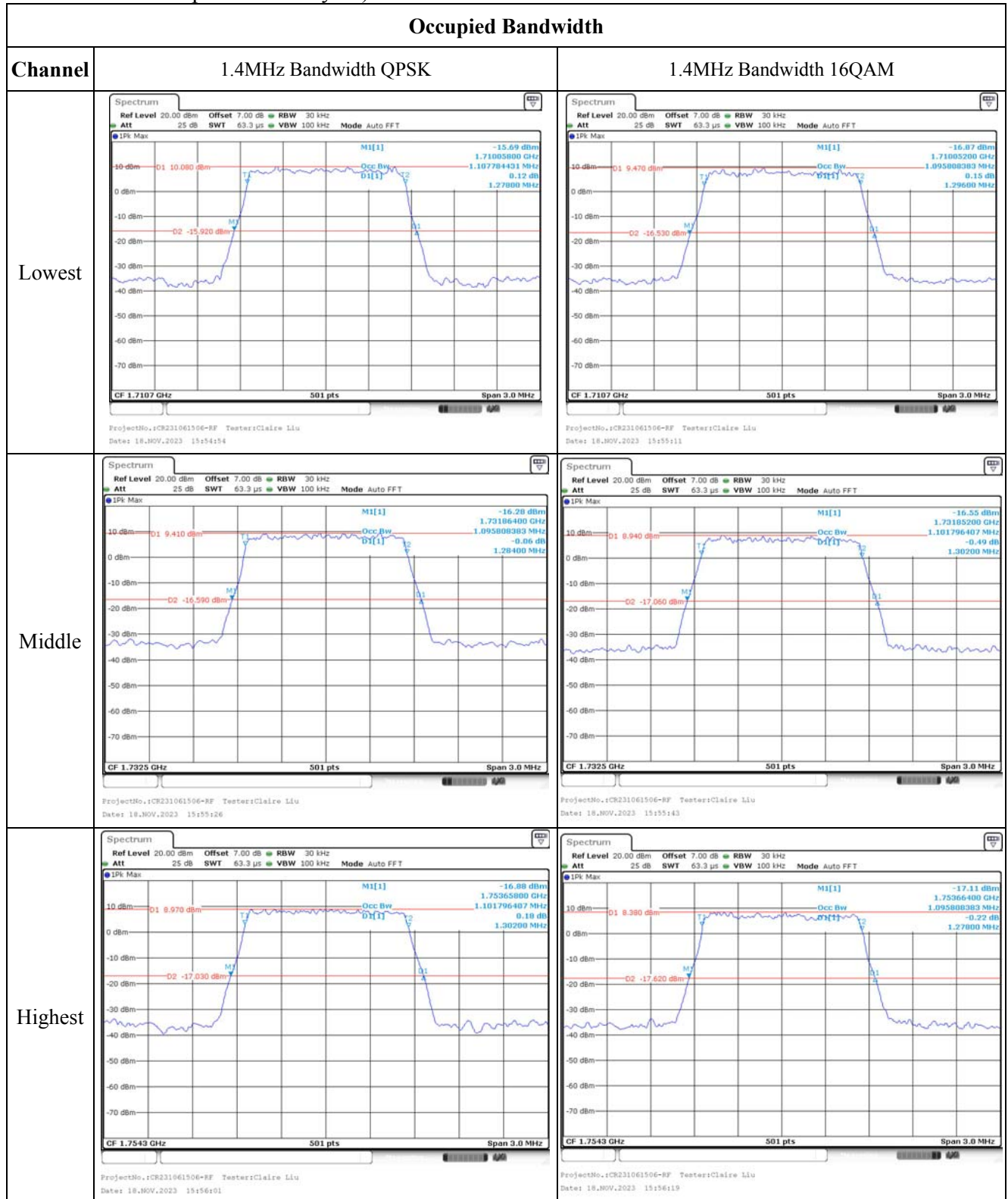
Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

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

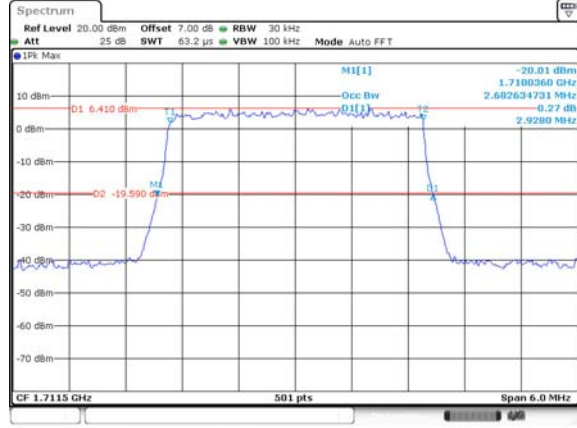
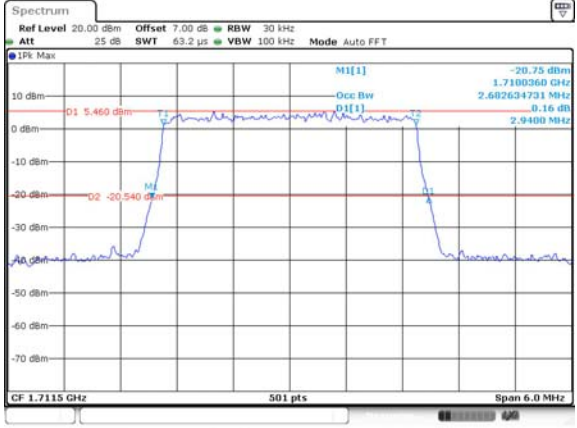
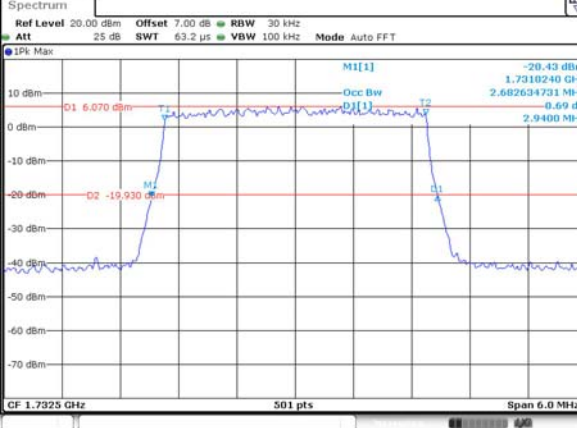
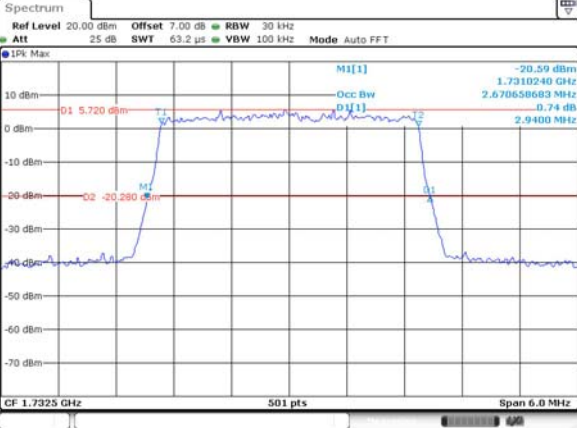
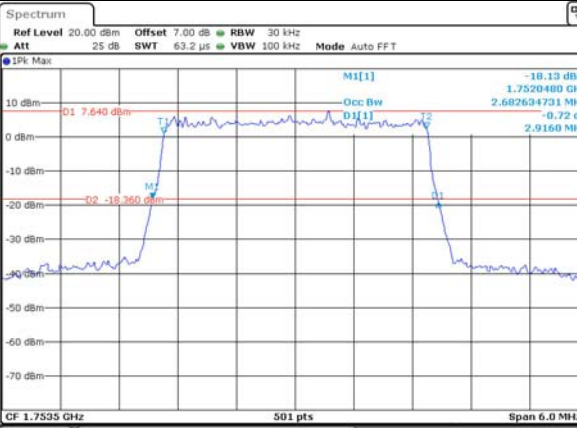
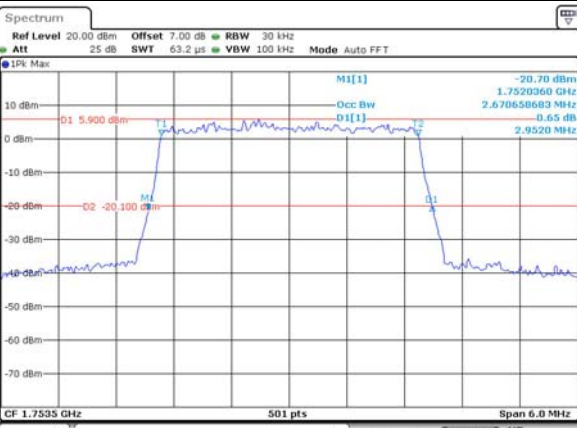
Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1710.423	1710.00	1754.502	1755
	-20	3.91	1710.410	1710.00	1754.531	1755
	-10	3.91	1710.499	1710.00	1754.516	1755
	0	3.91	1710.408	1710.00	1754.595	1755
	10	3.91	1710.464	1710.00	1754.590	1755
	20	3.91	1710.400	1710.00	1754.600	1755
	30	3.91	1710.462	1710.00	1754.552	1755
	40	3.91	1710.487	1710.00	1754.521	1755
	50	3.91	1710.428	1710.00	1754.582	1755
Frequency Stability vs. Voltage	20	3.45	1710.410	1710.00	1754.532	1755
	20	4.5	1710.449	1710.00	1754.506	1755
					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	1710.425	1710.00	1754.628	1755
	-20	3.91	1710.474	1710.00	1754.624	1755
	-10	3.91	1710.409	1710.00	1754.655	1755
	0	3.91	1710.464	1710.00	1754.650	1755
	10	3.91	1710.492	1710.00	1754.598	1755
	20	3.91	1710.400	1710.00	1754.680	1755
	30	3.91	1710.423	1710.00	1754.636	1755
	40	3.91	1710.469	1710.00	1754.600	1755
	50	3.91	1710.494	1710.00	1754.581	1755
Frequency Stability vs. Voltage	20	3.45	1710.451	1710.00	1754.602	1755
	20	4.5	1710.476	1710.00	1754.607	1755
					Result:	Pass

Test Plots(Note: The 7 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):



Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:57:11	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:57:32
Middle	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:57:50	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:58:07
Highest	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:58:28	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 15:58:45

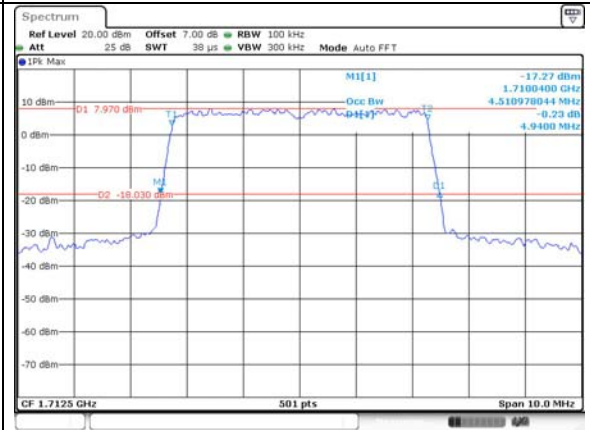
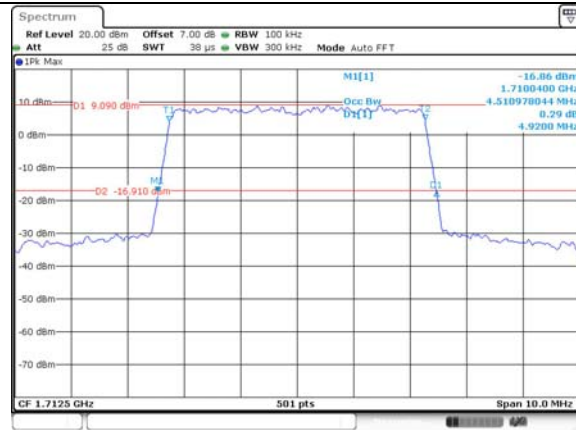
Occupied Bandwidth

Channel

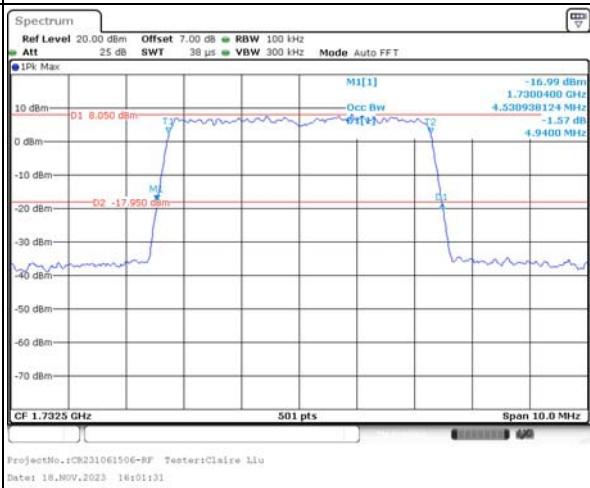
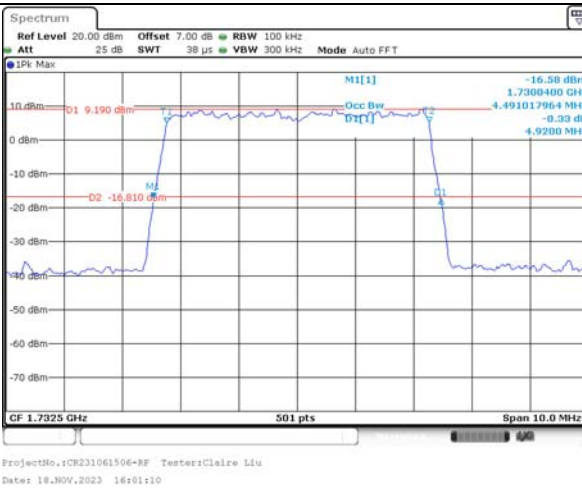
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

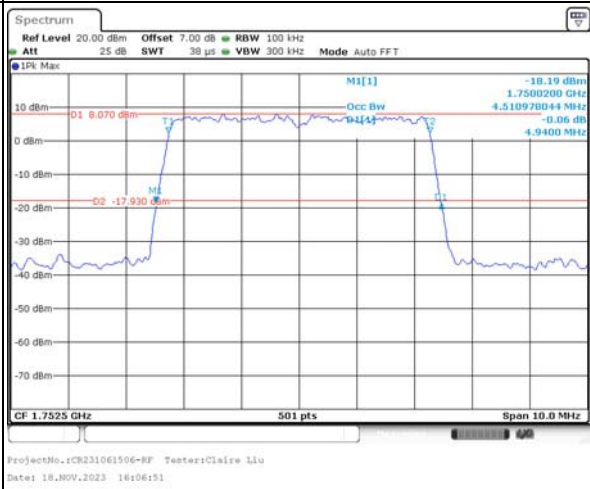
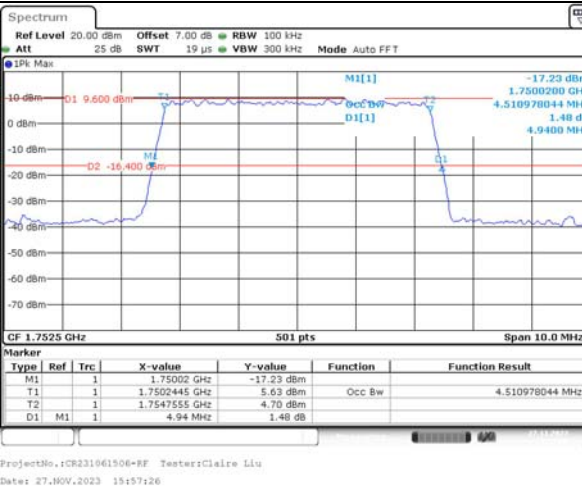
Lowest



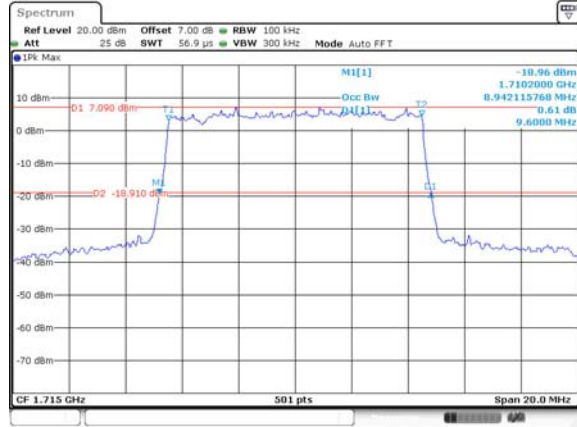
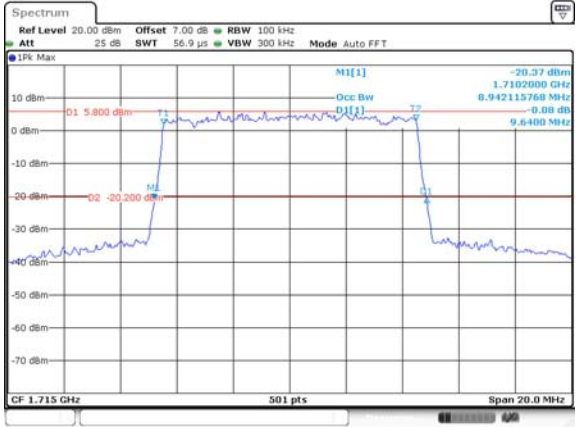
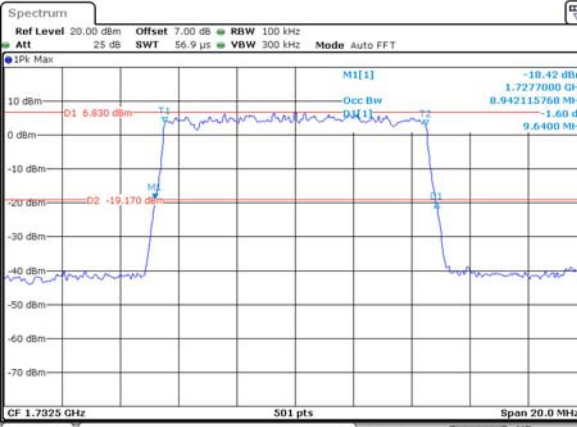
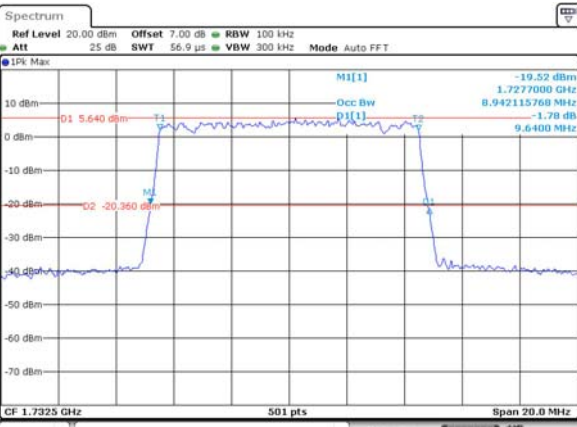
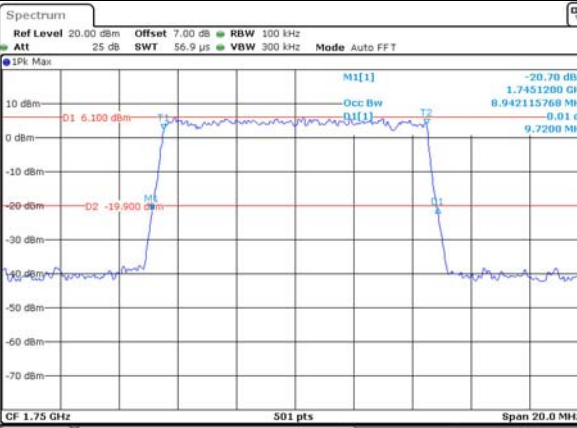
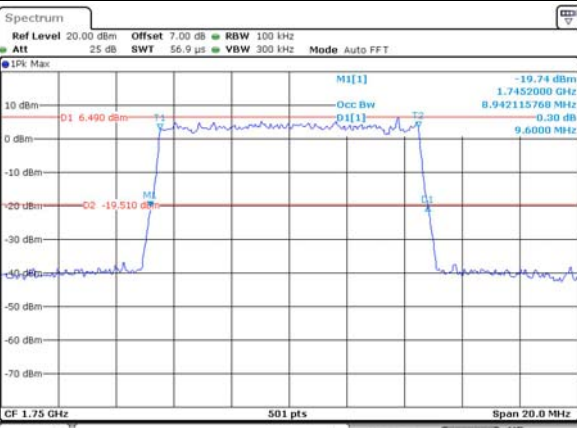
Middle



Highest



Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 16:08:54	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 16:09:18
Middle	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 16:09:40	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 16:10:01
Highest	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 16:10:29	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 16:10:53

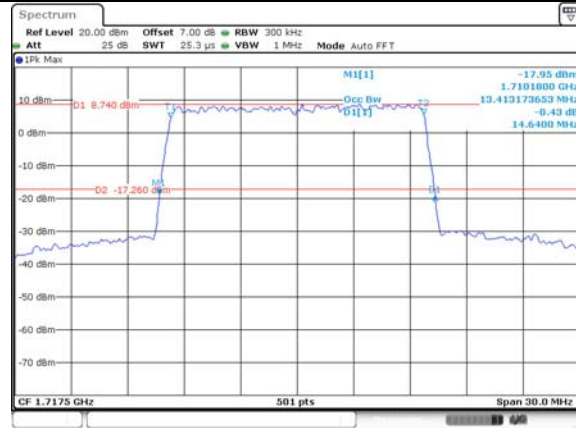
Occupied Bandwidth

Channel

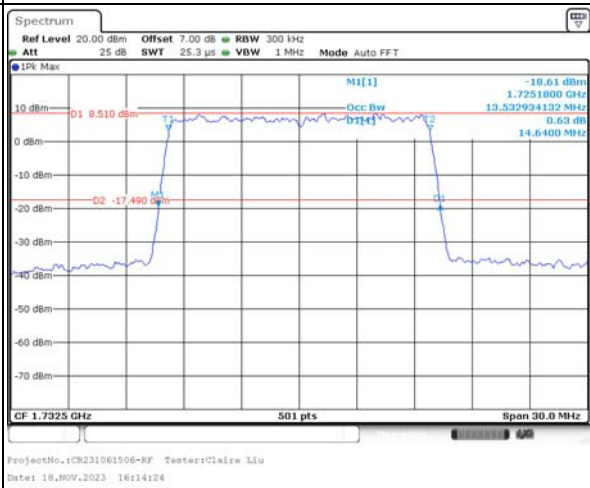
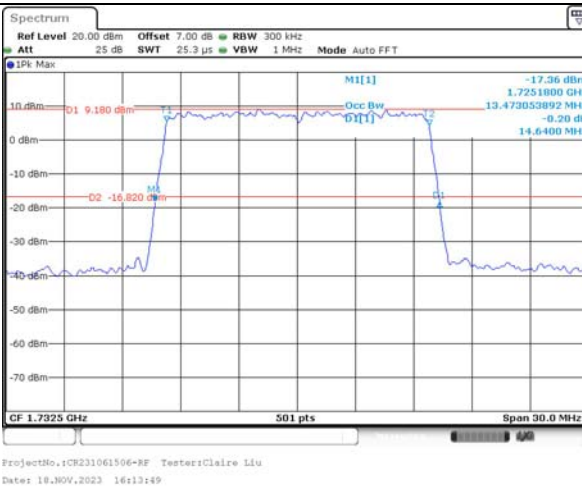
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

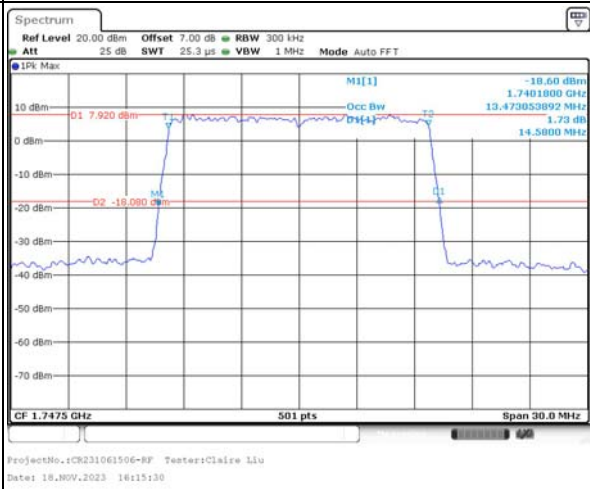
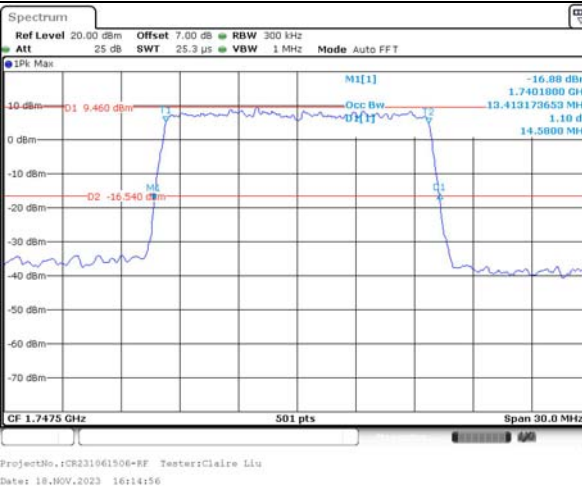
Lowest



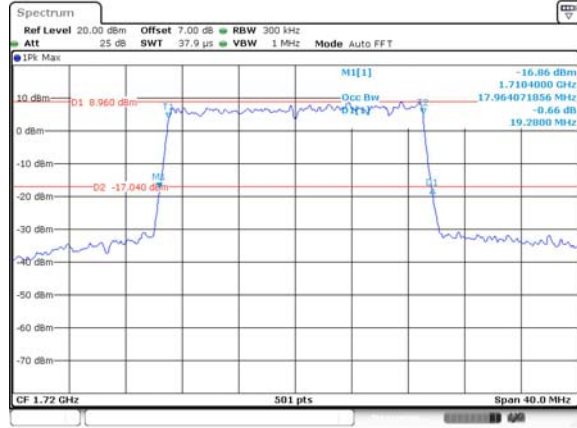
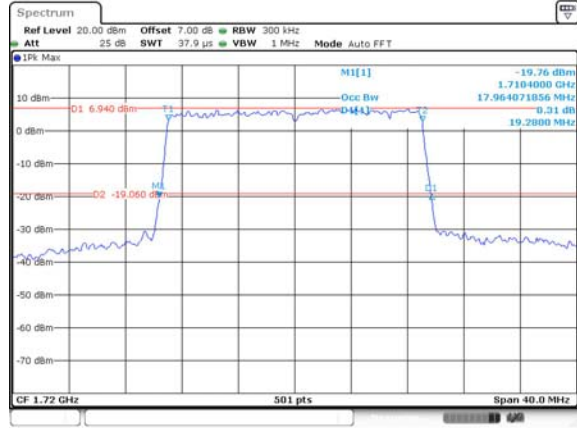
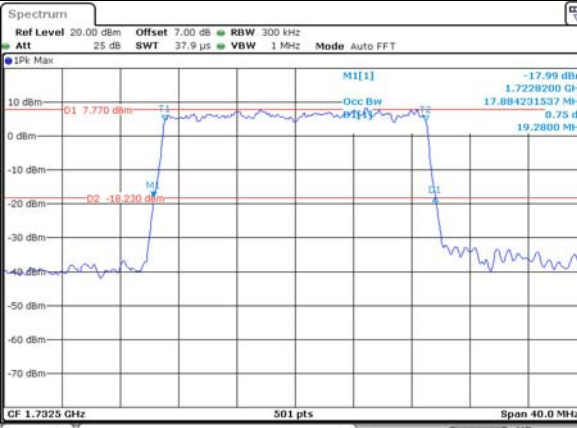
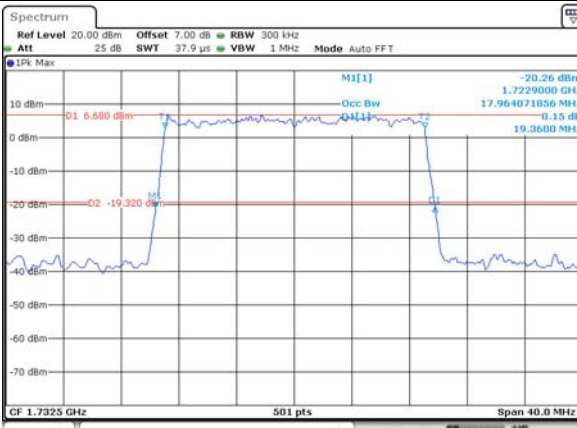
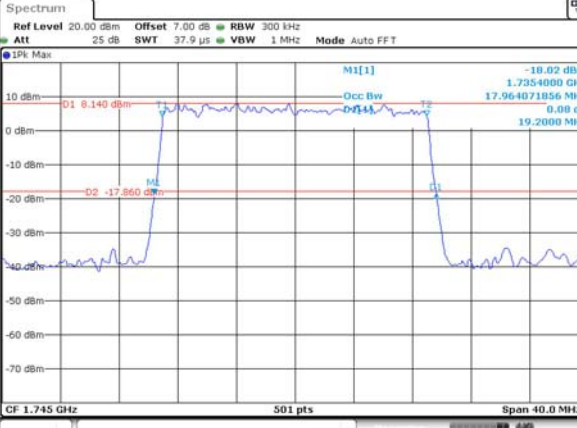
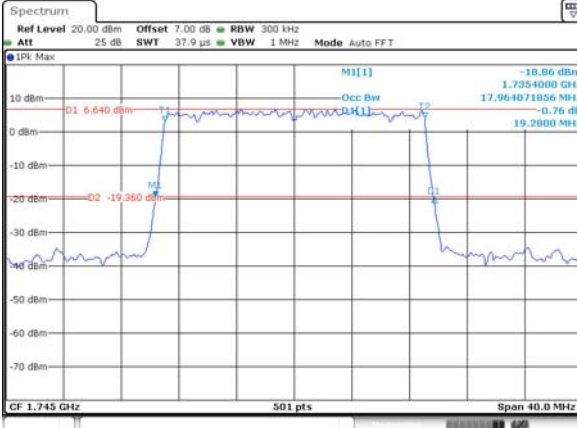
Middle



Highest



Occupied Bandwidth

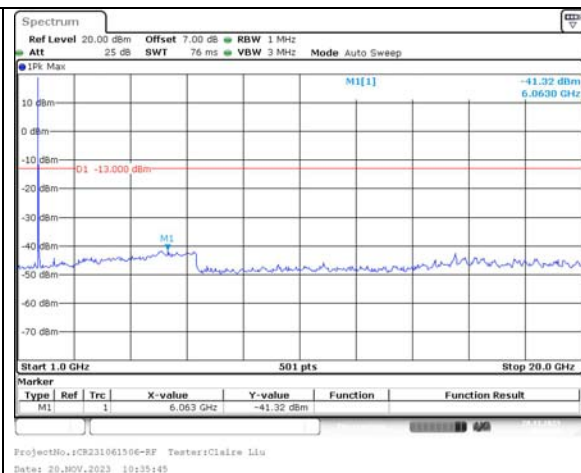
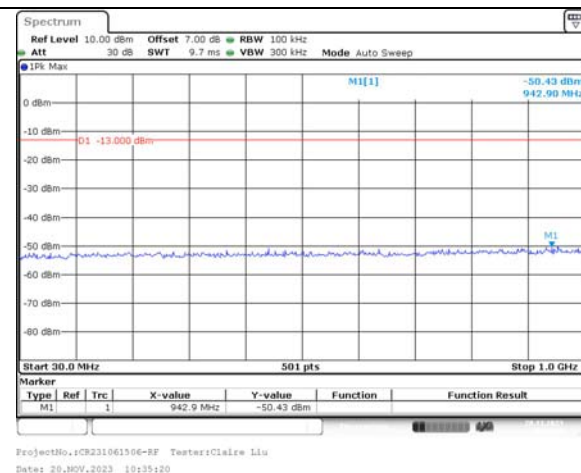
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 16:17:42	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 16:18:20
Middle	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 16:18:52	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 16:19:17
Highest	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 16:19:49	 ProjectNo.:CR231061506-RF Testers:Claire Liu Date: 18.NOV.2023 16:20:38

Spurious Emissions at Antenna Terminal

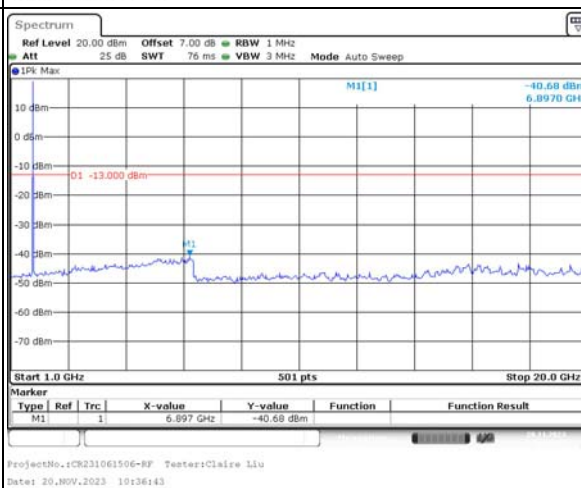
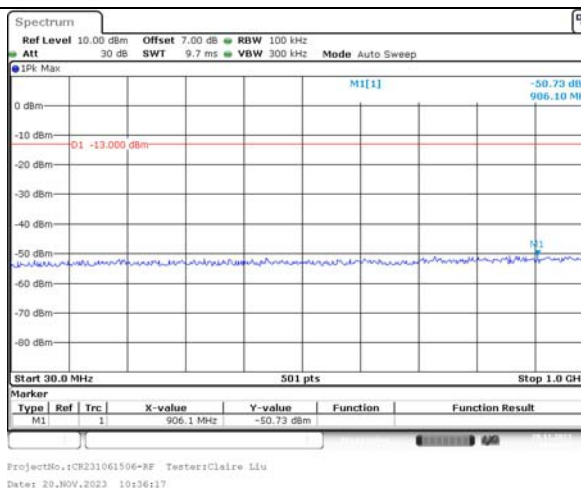
Channel

1.4MHz Bandwidth QPSK

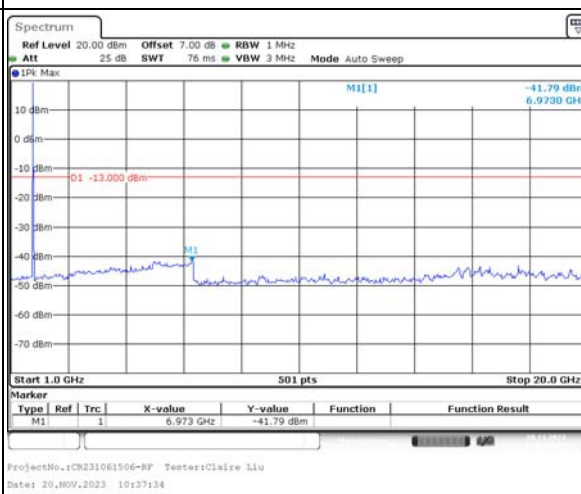
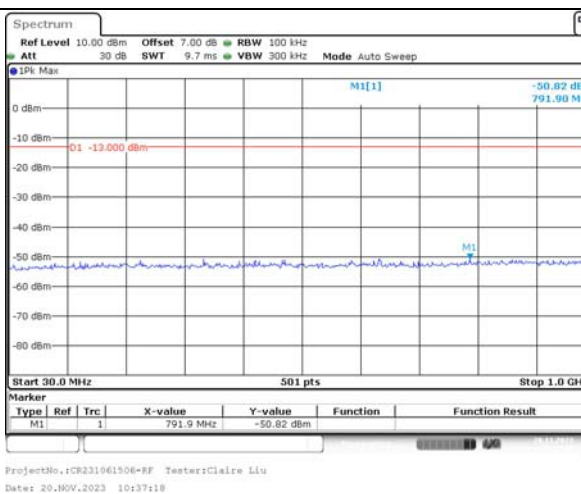
Lowest



Middle



Highest

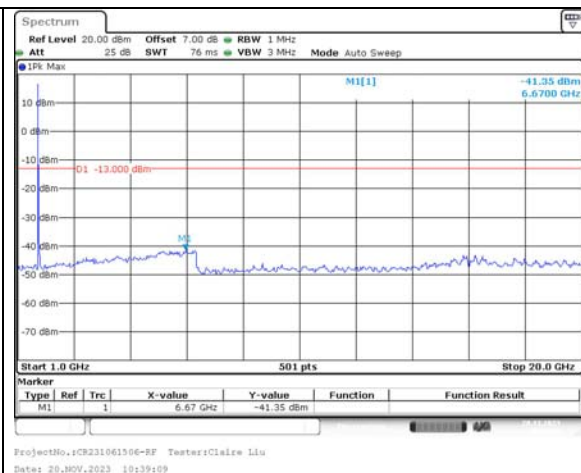
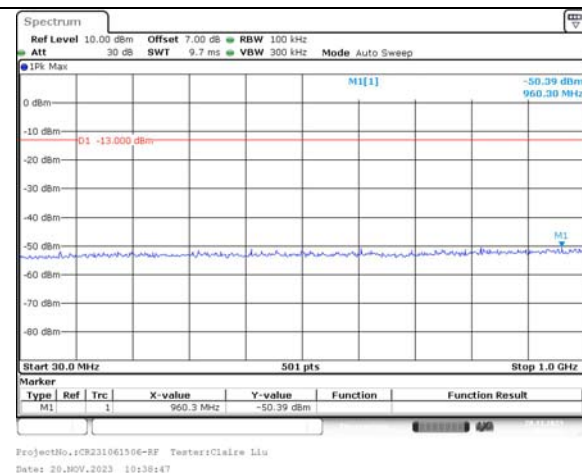


Spurious Emissions at Antenna Terminal

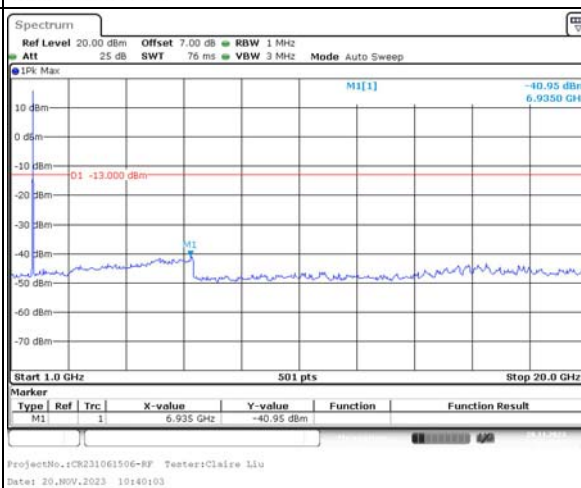
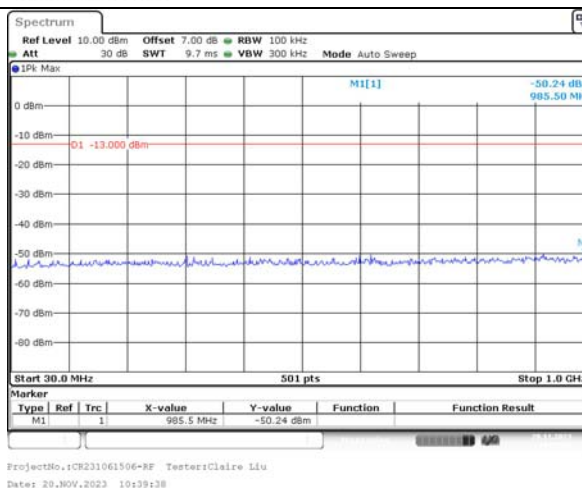
Channel

3MHz Bandwidth QPSK

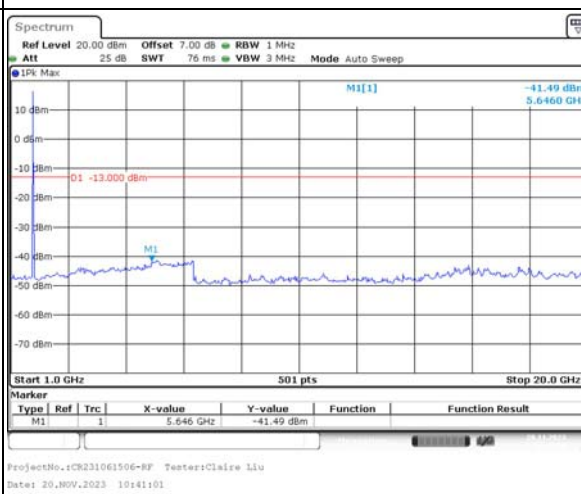
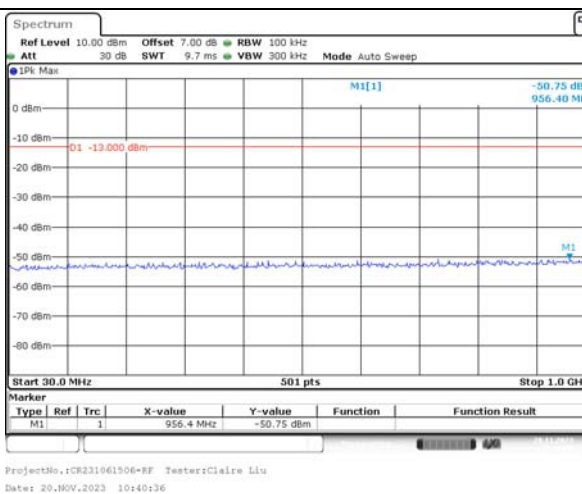
Lowest



Middle



Highest

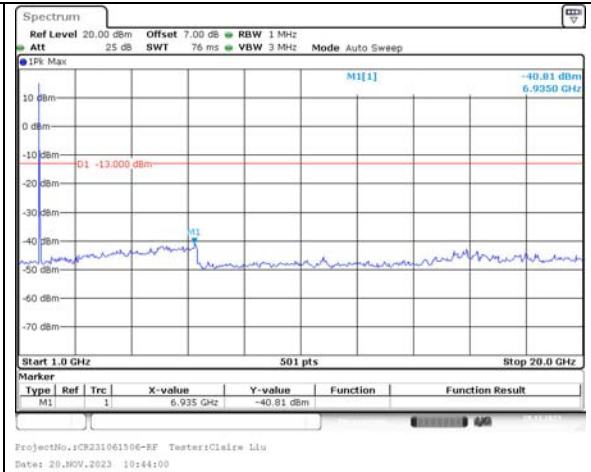
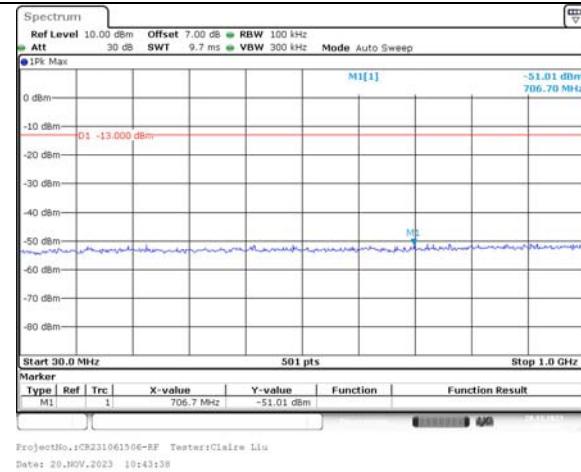


Spurious Emissions at Antenna Terminal

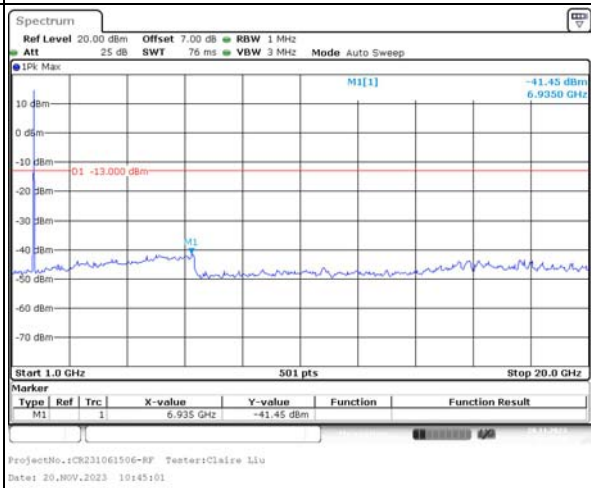
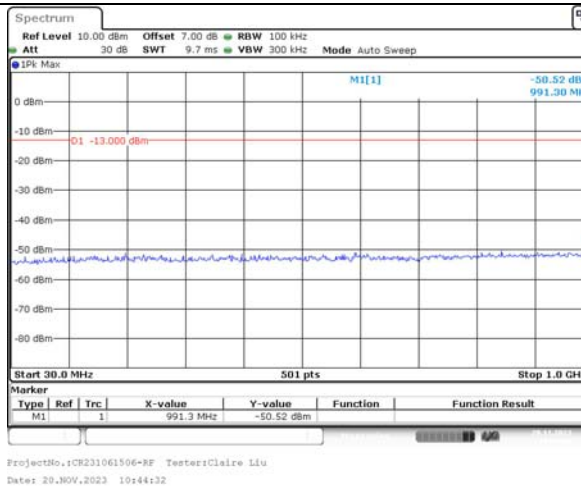
Channel

5MHz Bandwidth QPSK

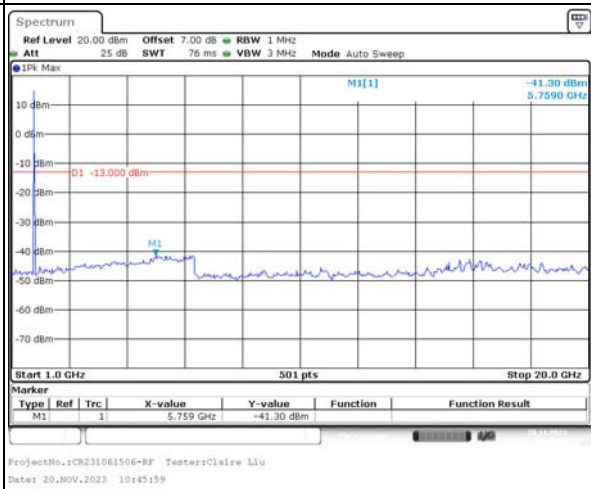
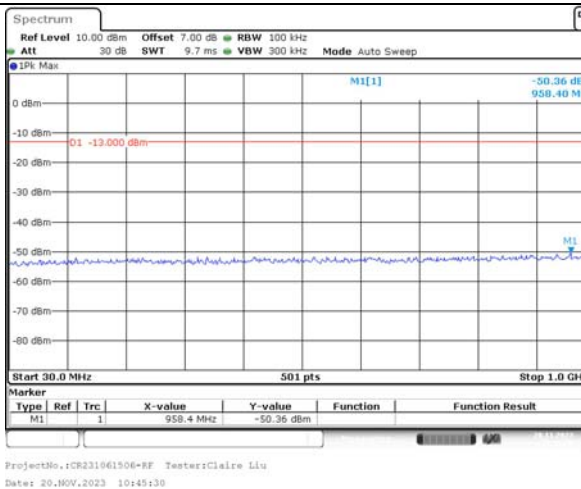
Lowest



Middle



Highest

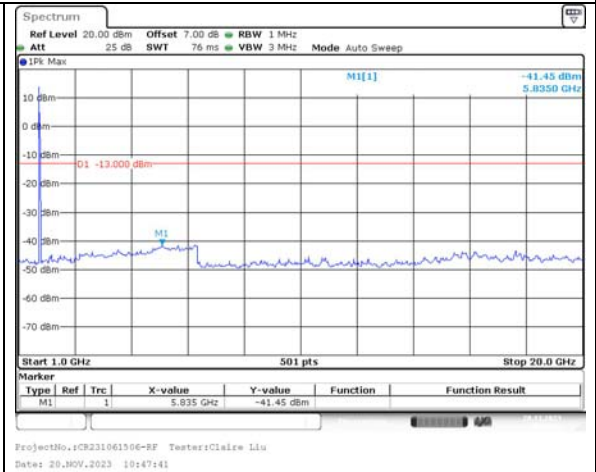
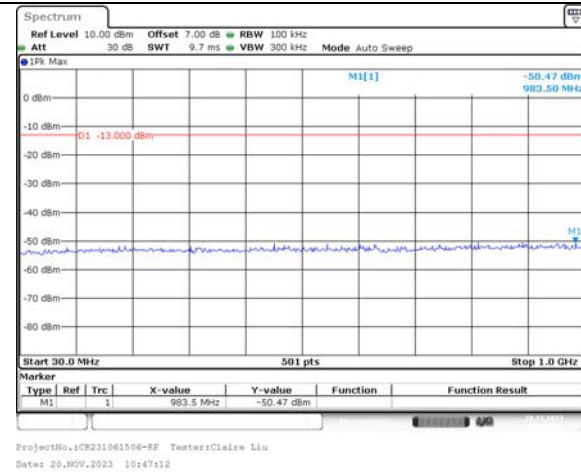


Spurious Emissions at Antenna Terminal

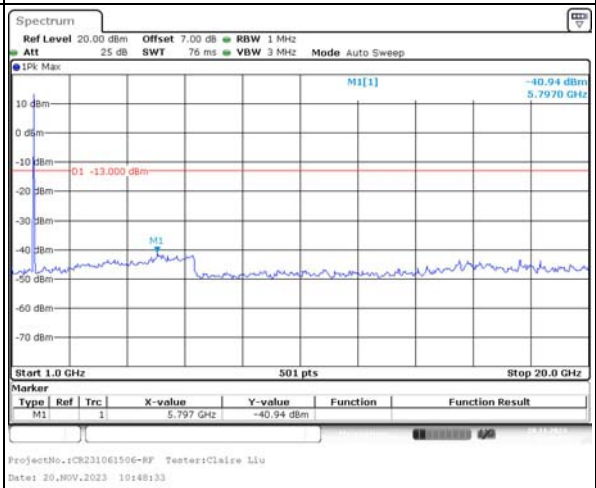
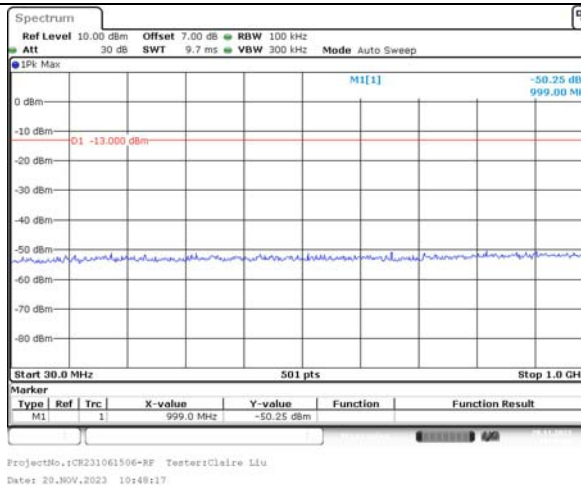
Channel

10MHz Bandwidth QPSK

Lowest



Middle



Highest

