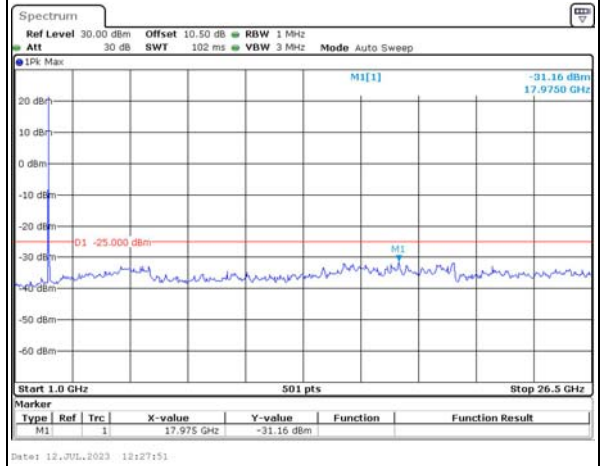
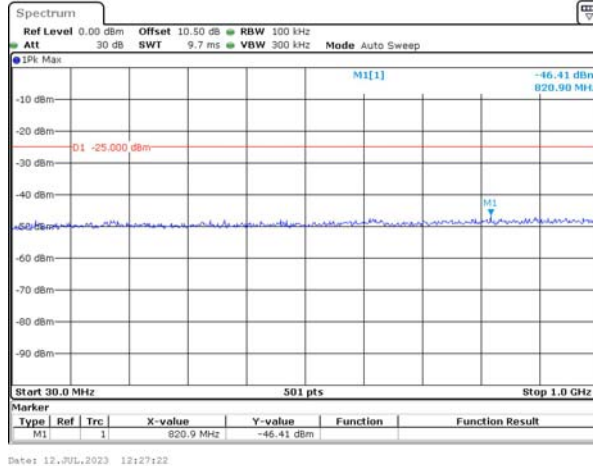


Spurious Emissions at Antenna Terminal

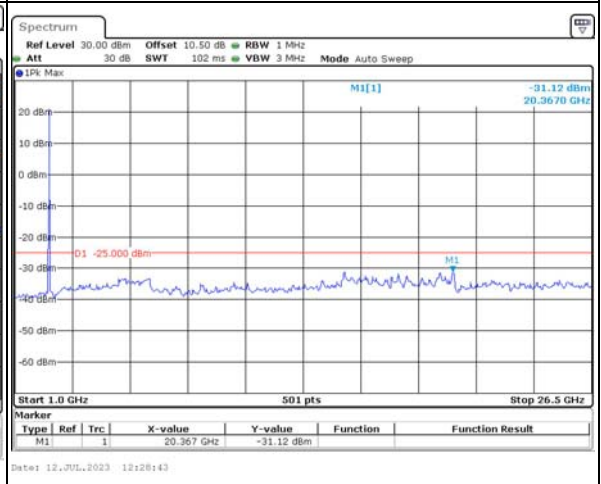
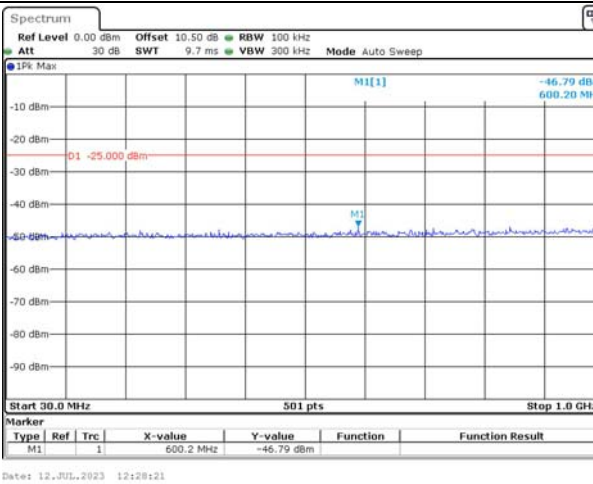
Channel

10MHz Bandwidth QPSK

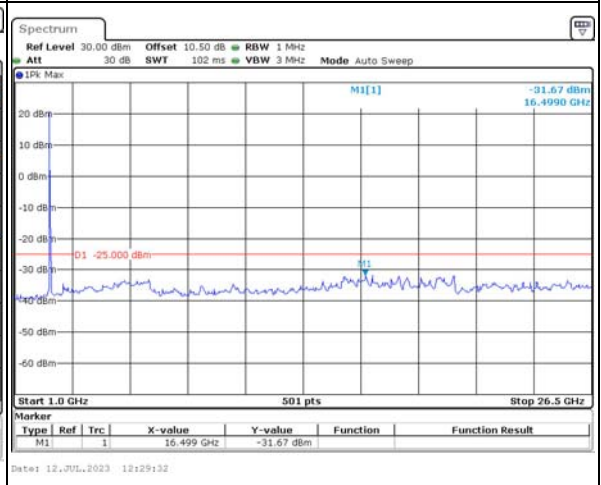
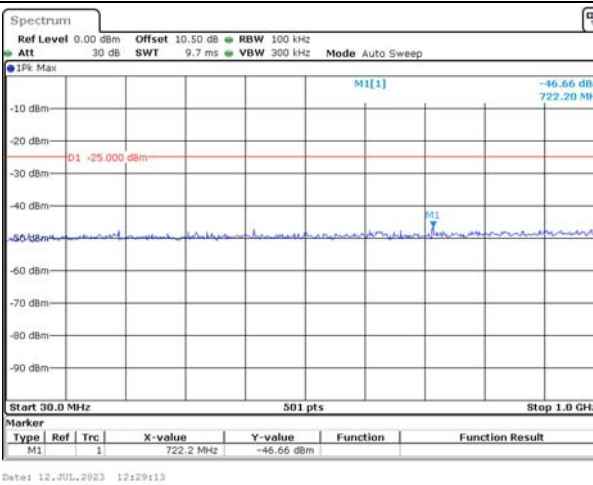
Lowest



Middle



Highest

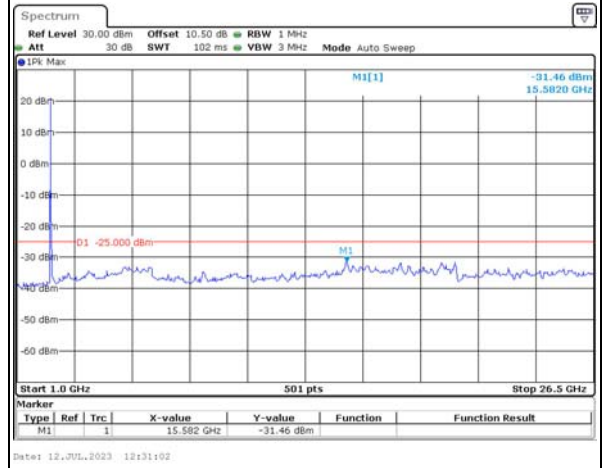
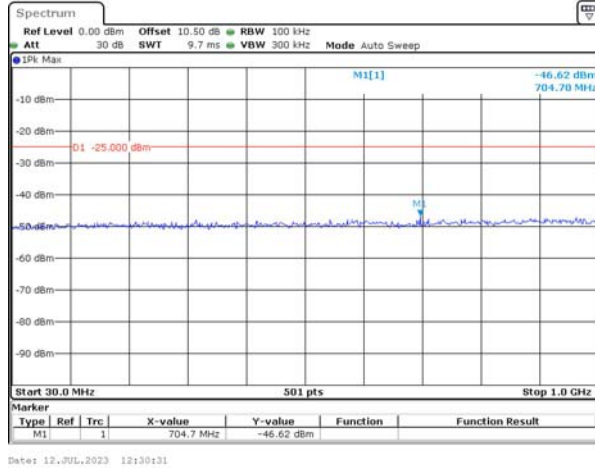


Spurious Emissions at Antenna Terminal

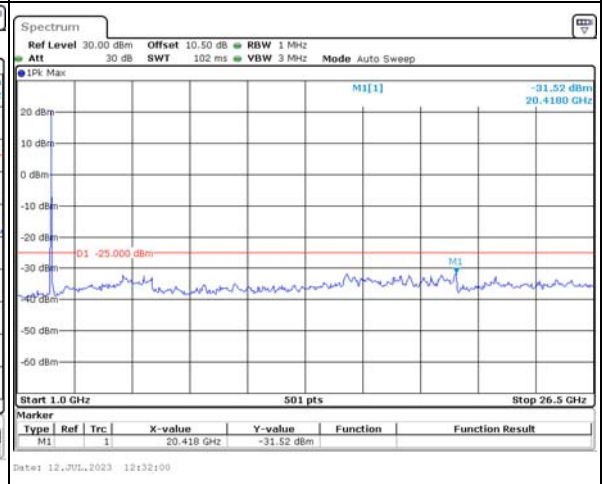
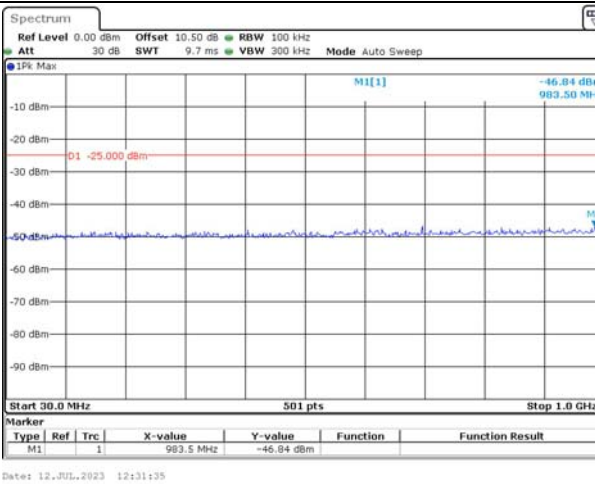
Channel

15MHz Bandwidth QPSK

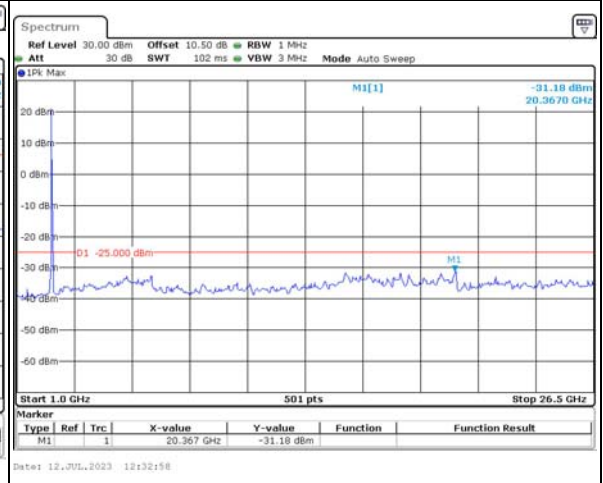
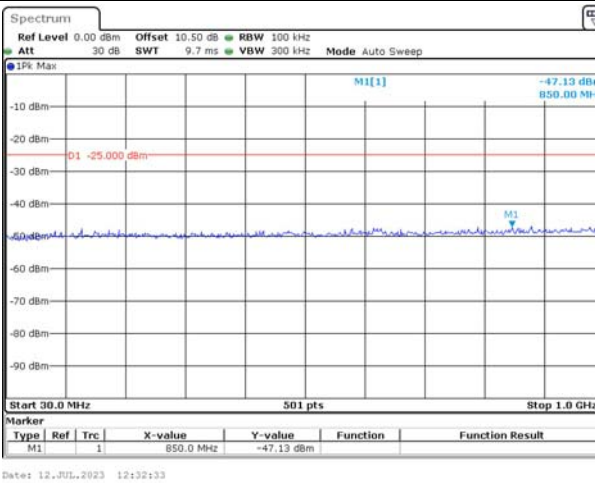
Lowest



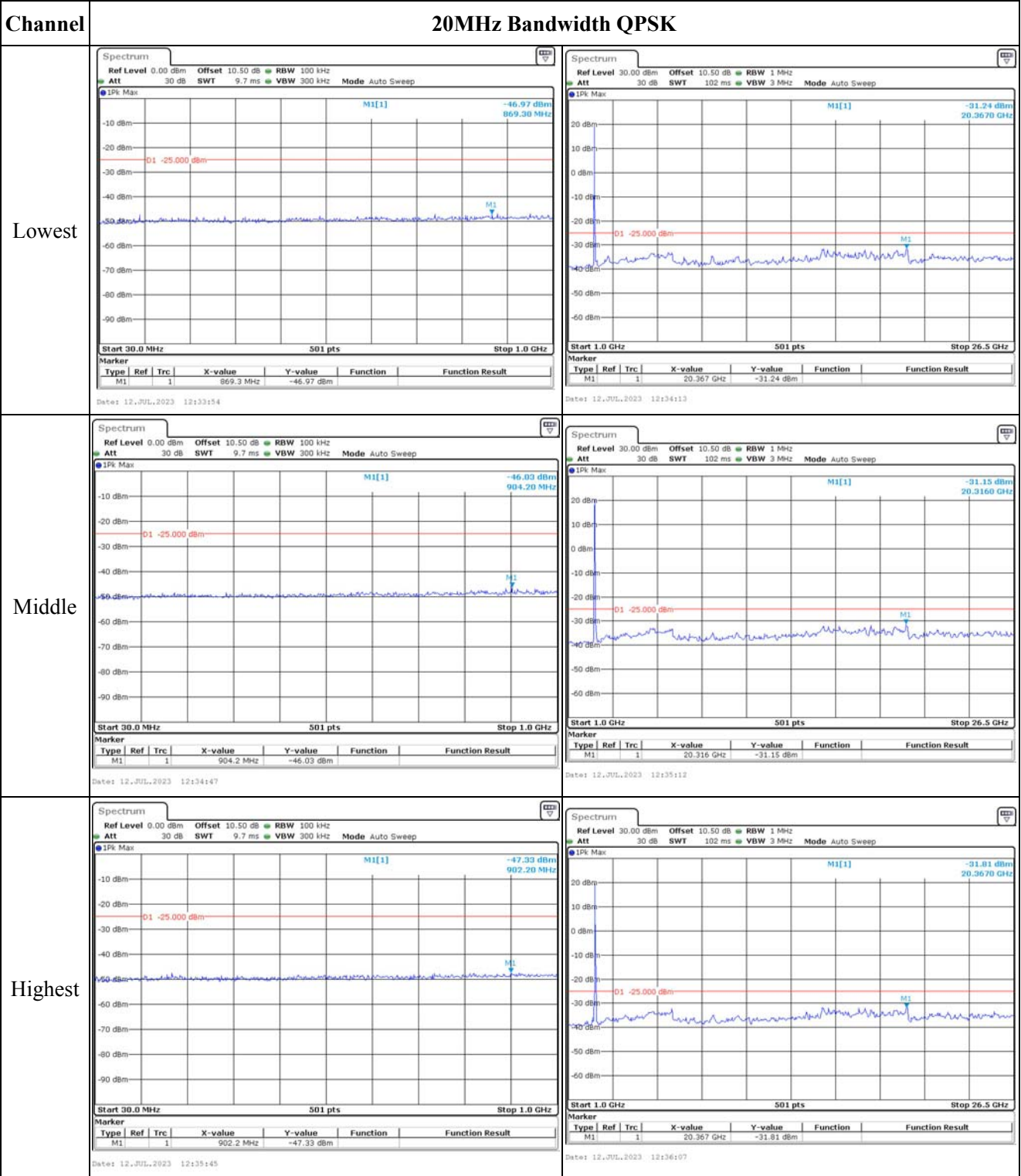
Middle



Highest



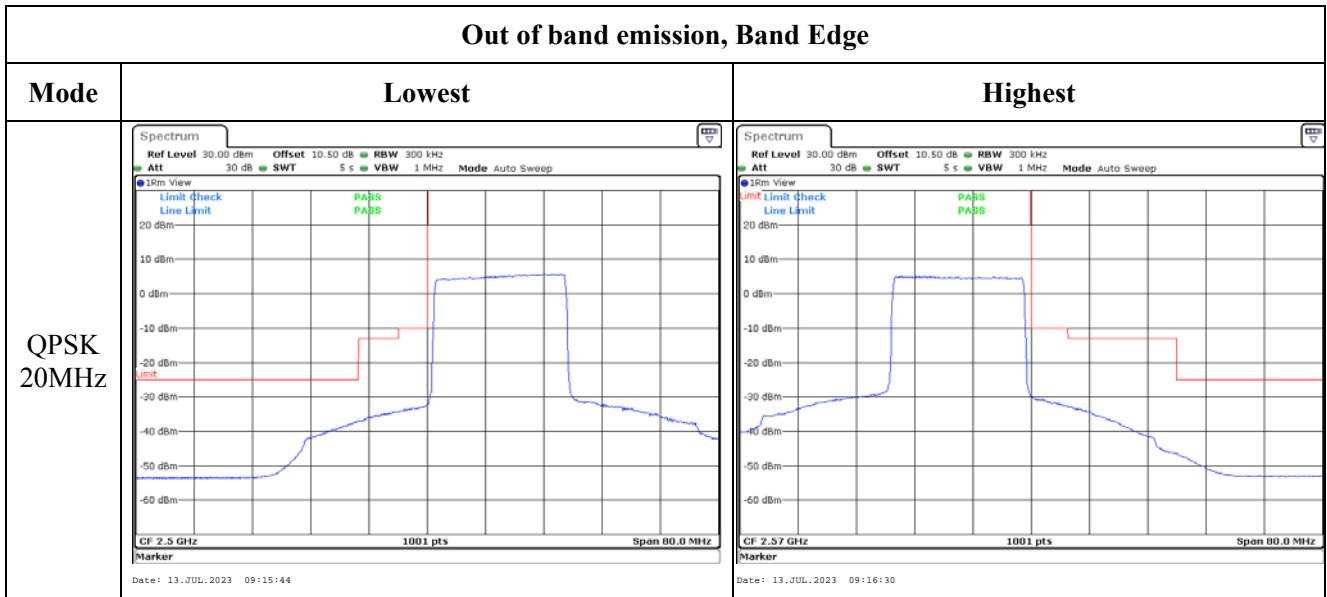
Spurious Emissions at Antenna Terminal



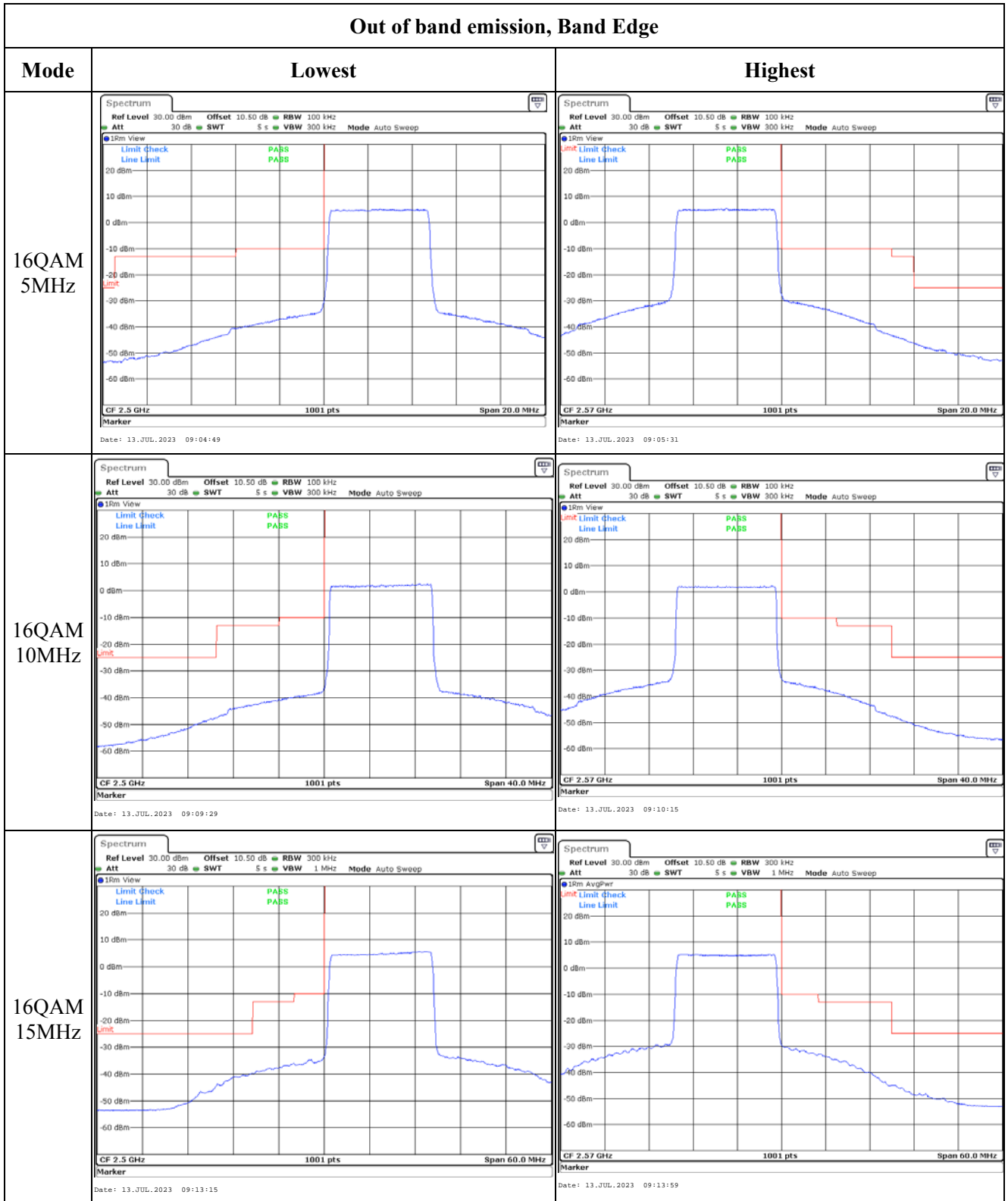
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 5MHz		
QPSK 10MHz		
QPSK 15MHz		

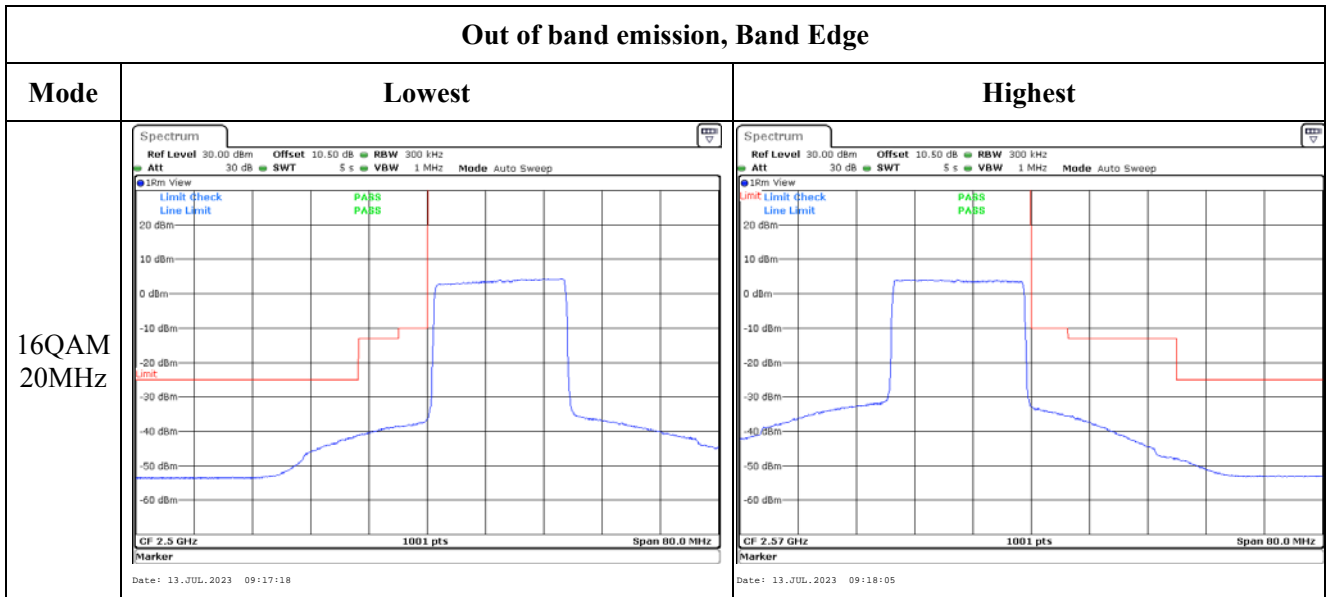
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.10 Antenna Port Test Data and Results for LTE Band 12

Serial Number:	27XL-1	Test Date:	2023/7/12~2023/7/13
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.9~26.1	Relative Humidity: (%)	56~60	ATM Pressure: (kPa)	100.2~100.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
R&S	Wideband Radio Communication Tester	CMW500	143458	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
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2022/9/29	2023/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	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)
1.4MHz	699.7	707.5	715.3
3MHz	700.5	707.5	714.5
5MHz	701.5	707.5	713.5
10MHz	704	707.5	711

Test Data:

FCC§2.1046;§ 27.50(c) (10)						
RF Output Power:						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	22.23	21.87	21.7	17.05	34.77
	RB1#3	21.98	21.83	22.25		
	RB1#5	22.4	21.92	22.24		
	RB3#0	22.06	22.02	22.07		
	RB3#3	21.73	21.62	22.17		
	RB6#0	22.01	22.15	21.67		
1.4MHz 16QAM	RB1#0	21.71	22.09	21.91	16.97	34.77
	RB1#3	22.15	21.89	22		
	RB1#5	21.72	21.87	21.74		
	RB3#0	22.3	22.13	21.89		
	RB3#3	22.32	21.97	21.99		
	RB6#0	22.07	21.97	22.1		
3MHz QPSK	RB1#0	21.04	21.02	20.78	15.94	34.77
	RB1#8	21.19	21.14	21.12		
	RB1#14	20.69	21.1	20.89		
	RB6#0	21.29	20.9	21.11		
	RB6#9	21.17	20.9	21.14		
	RB15#0	20.81	20.84	21.16		
3MHz 16QAM	RB1#0	21.4	21.17	21.14	16.06	34.77
	RB1#8	21.2	20.95	21.41		
	RB1#14	21.08	20.97	21		
	RB6#0	21.21	20.9	20.83		
	RB6#9	21.27	21.05	21.25		
	RB15#0	21.07	21.17	21.12		
5MHz QPSK	RB1#0	21.3	21.36	21.35	16.2	34.77
	RB1#13	21.49	21.27	21.29		
	RB1#24	21.52	21.54	21.54		
	RB15#0	20.99	21.27	21.35		
	RB15#10	21.54	21.3	21.27		
	RB25#0	21.05	21.55	21.47		
5MHz 16QAM	RB1#0	21.25	21.18	21.63	16.35	34.77
	RB1#13	21.7	21.35	21.69		
	RB1#24	21.1	21.1	21		
	RB15#0	21.38	21.47	21.57		
	RB15#10	21.21	21.32	21.61		
	RB25#0	21.3	21.28	21.37		
10MHz QPSK	RB1#0	21.18	21.71	21.16	16.36	34.77
	RB1#25	21.57	21.31	21.59		
	RB1#49	21.13	21.65	21.25		

	RB25#0	21.12	21.65	21.71		
	RB25#25	21.5	21.12	20.92		
	RB50#0	21.3	21.19	21.31		
10MHz 16QAM	RB1#0	21.25	21.63	21.54	16.28	34.77
	RB1#25	21.3	21.31	21.19		
	RB1#49	21.24	21.43	21.28		
	RB25#0	21.47	21.16	21.02		
	RB25#25	21.23	21.05	21.44		
	RB50#0	21.31	21.57	21.63		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + Gr(dBd)

Gr(dBd)=Gr(dBi)-2.15

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		
10MHz QPSK	RB1#0	4.55	4.84	4.7	13	
	RB50#0	5.19	5.1	5.04	13	
10MHz 16QAM	RB1#0	5.33	5.59	5.62	13	
	RB50#0	6.17	6.12	6.12	13	
Result:					Pass	

FCC §2.1049, §27.53: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	1.096	1.102	1.296	1.314	1.284
1.4MHz 16QAM	1.096	1.096	1.09	1.314	1.284	1.29
3MHz QPSK	2.683	2.683	2.683	2.88	2.868	2.868
3MHz 16QAM	2.683	2.683	2.683	2.88	2.88	2.928
5MHz QPSK	4.511	4.511	4.531	5.24	5.22	5.22
5MHz 16QAM	4.551	4.551	4.531	5.22	5.26	5.14
10MHz QPSK	8.942	8.942	8.982	9.88	9.92	9.88
10MHz 16QAM	8.942	8.942	8.942	9.92	9.88	9.8

Note: The test plots please refer to the Plots of Occupied Bandwidth

FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

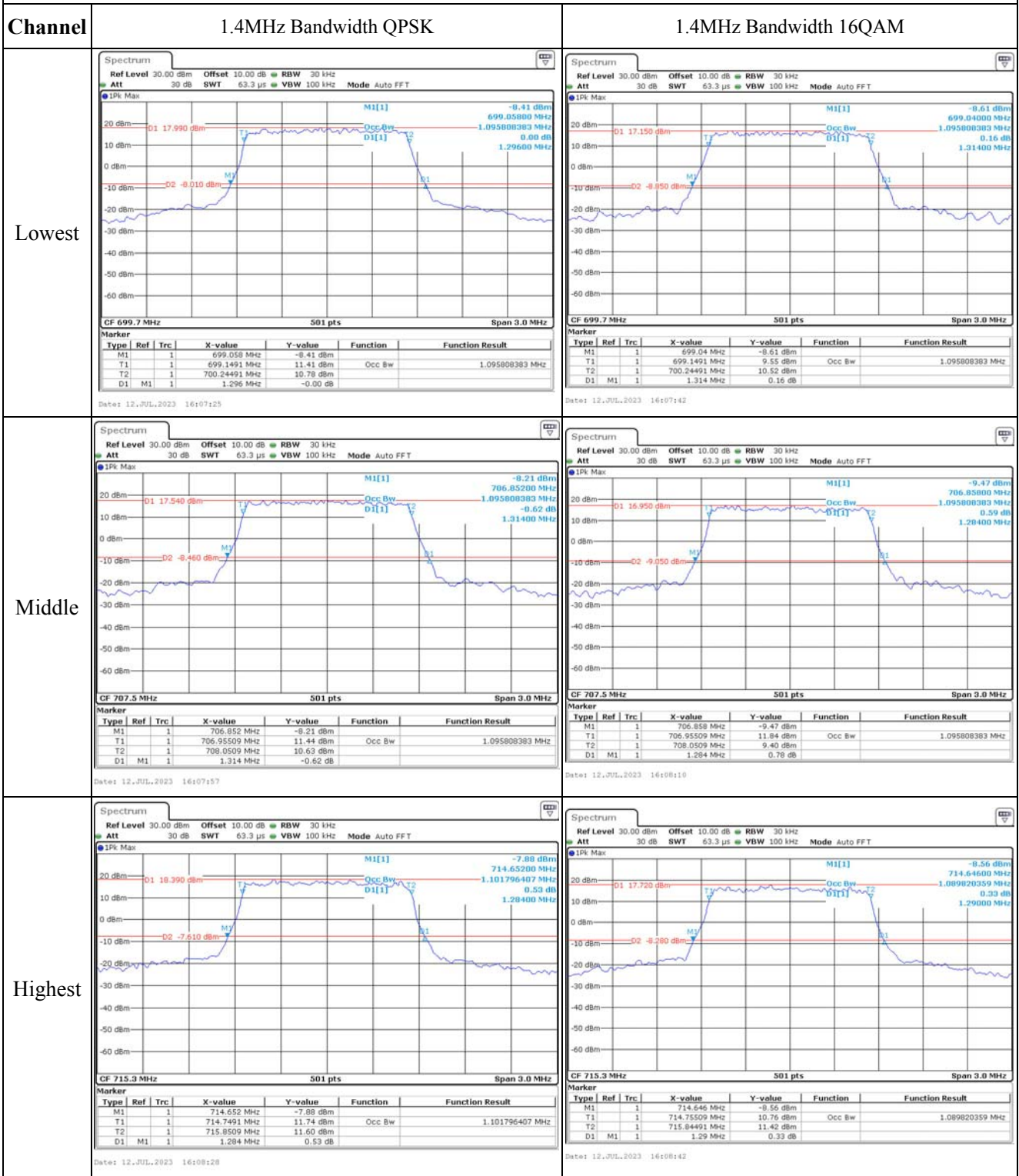
FCC §2.1051, §27.53:Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

FCC §2.1055, §27.54: Frequency Stability						
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	3.85	699.018	699.00	715.978	716.00
	-20	3.85	699.012	699.00	715.988	716.00
	-10	3.85	699.015	699.00	715.988	716.00
	0	3.85	699.018	699.00	715.981	716.00
	10	3.85	699.017	699.00	715.986	716.00
	20	3.85	699.022	699.00	715.981	716.00
	30	3.85	699.014	699.00	715.983	716.00
	40	3.85	699.022	699.00	715.989	716.00
	50	3.85	699.016	699.00	715.989	716.00
Frequency Stability vs. Voltage	20	3.5	699.020	699.00	715.978	716.00
	20	4.4	699.018	699.00	715.987	716.00
					Result:	Pass

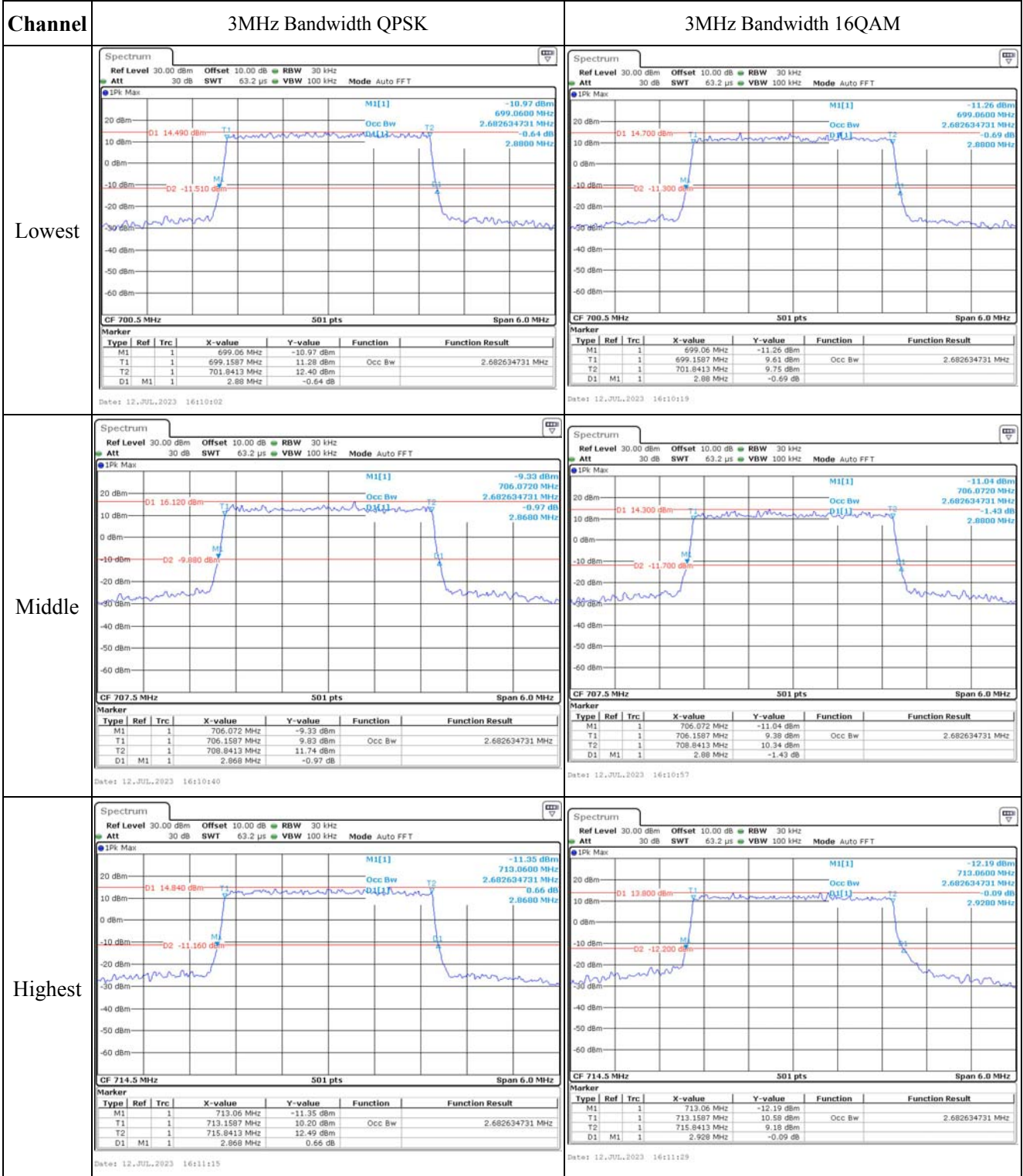
Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	699.023	699.00	715.984	716.00
	-20	3.85	699.020	699.00	715.979	716.00
	-10	3.85	699.016	699.00	715.985	716.00
	0	3.85	699.023	699.00	715.987	716.00
	10	3.85	699.019	699.00	715.982	716.00
	20	3.85	699.016	699.00	715.980	716.00
	30	3.85	699.020	699.00	715.979	716.00
	40	3.85	699.011	699.00	715.987	716.00
	50	3.85	699.023	699.00	715.988	716.00
Frequency Stability vs. Voltage	20	3.5	699.021	699.00	715.983	716.00
	20	4.4	699.020	699.00	715.982	716.00
					Result:	Pass

Test Plots(Note: The 10 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

Occupied Bandwidth



Occupied Bandwidth



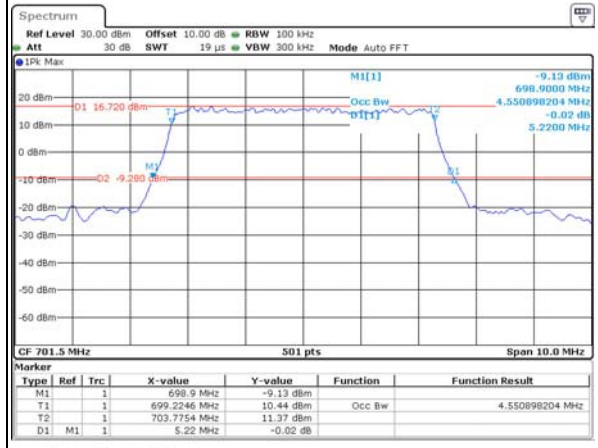
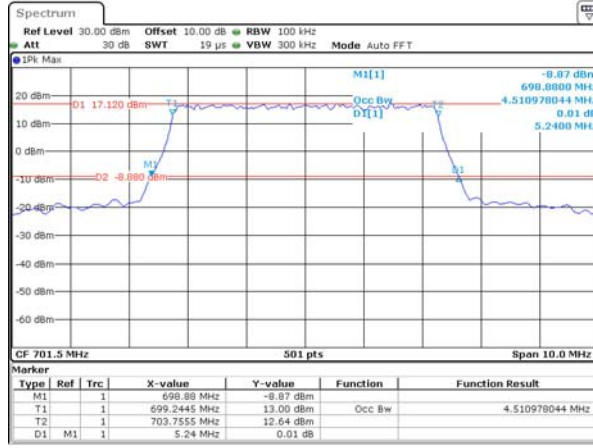
Occupied Bandwidth

Channel

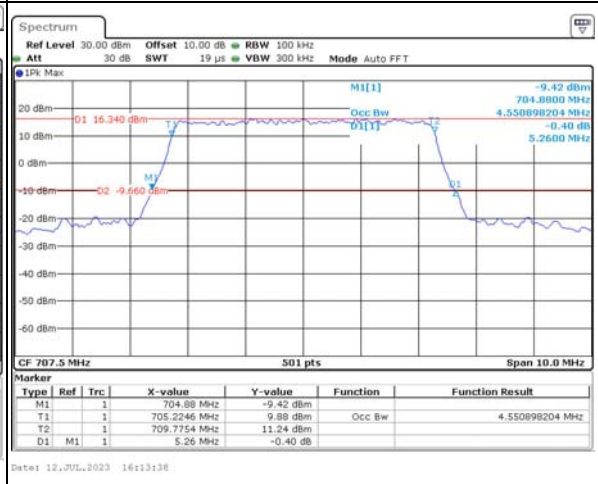
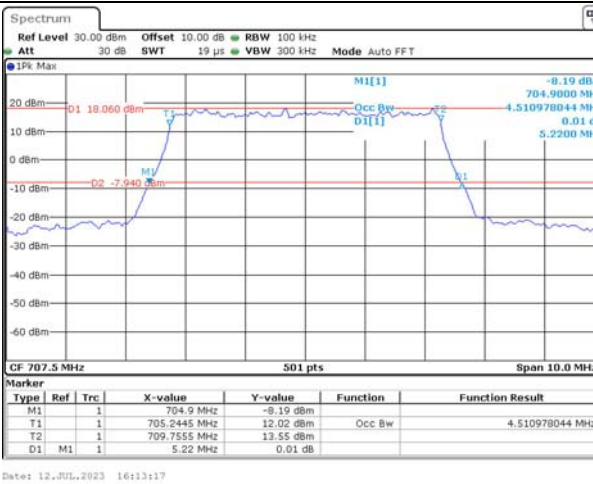
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

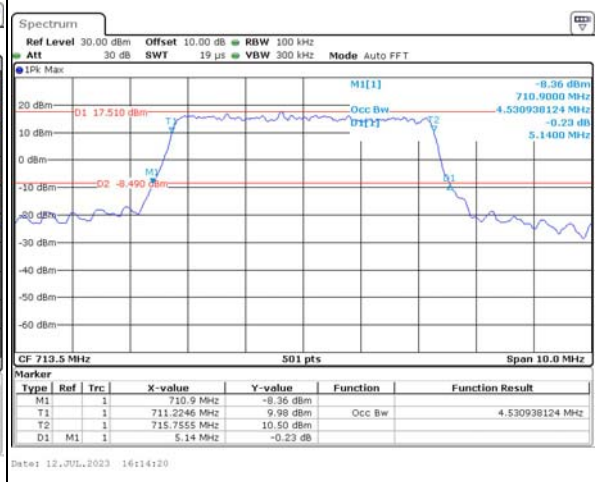
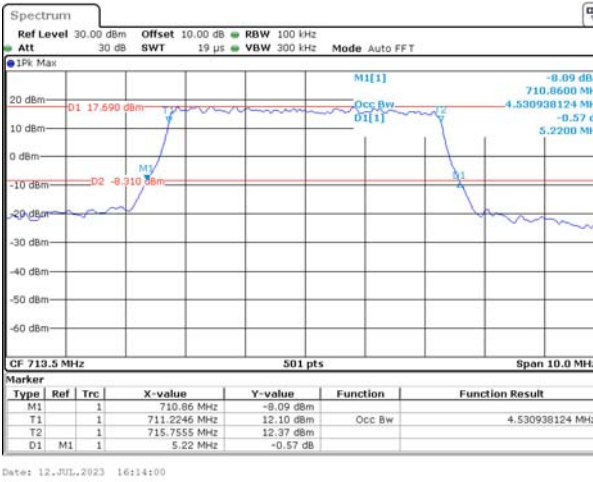
Lowest



Middle



Highest



Occupied Bandwidth

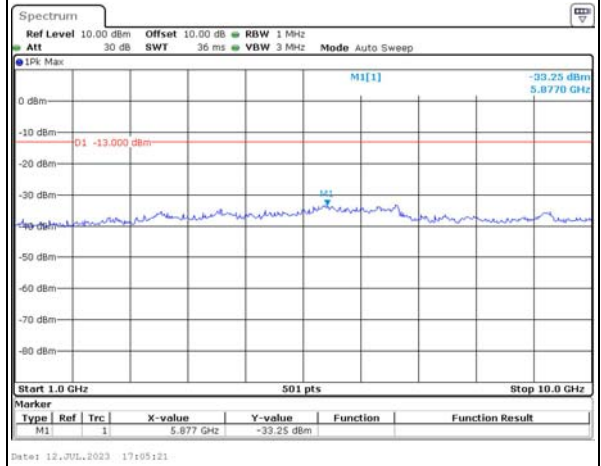
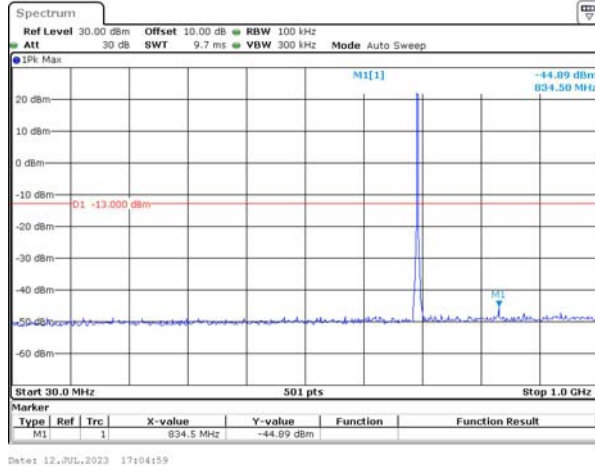
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM																																																																						
Lowest	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>699.08 MHz</td> <td>-11.13 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>699.5289 MHz</td> <td>12.13 dBm</td> <td>Occ Bw</td> <td>8.942115768 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>708.4711 MHz</td> <td>12.78 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>9.88 MHz</td> <td>-0.00 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		699.08 MHz	-11.13 dBm			T1	1		699.5289 MHz	12.13 dBm	Occ Bw	8.942115768 MHz	T2	1		708.4711 MHz	12.78 dBm			D1	M1	1	9.88 MHz	-0.00 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>699.04 MHz</td> <td>-11.98 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>699.5289 MHz</td> <td>11.32 dBm</td> <td>Occ Bw</td> <td>8.942115768 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>708.4711 MHz</td> <td>11.59 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>9.92 MHz</td> <td>-0.40 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		699.04 MHz	-11.98 dBm			T1	1		699.5289 MHz	11.32 dBm	Occ Bw	8.942115768 MHz	T2	1		708.4711 MHz	11.59 dBm			D1	M1	1	9.92 MHz	-0.40 dB		
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Highest	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>706.0 MHz</td> <td>-10.79 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>706.489 MHz</td> <td>9.85 dBm</td> <td>Occ Bw</td> <td>8.982035928 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>715.4711 MHz</td> <td>11.88 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>9.88 MHz</td> <td>0.19 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		706.0 MHz	-10.79 dBm			T1	1		706.489 MHz	9.85 dBm	Occ Bw	8.982035928 MHz	T2	1		715.4711 MHz	11.88 dBm			D1	M1	1	9.88 MHz	0.19 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>706.08 MHz</td> <td>-11.92 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>706.5289 MHz</td> <td>11.24 dBm</td> <td>Occ Bw</td> <td>8.942115768 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>715.4711 MHz</td> <td>11.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>9.8 MHz</td> <td>0.50 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		706.08 MHz	-11.92 dBm			T1	1		706.5289 MHz	11.24 dBm	Occ Bw	8.942115768 MHz	T2	1		715.4711 MHz	11.49 dBm			D1	M1	1	9.8 MHz	0.50 dB		
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Spurious Emissions at Antenna Terminal

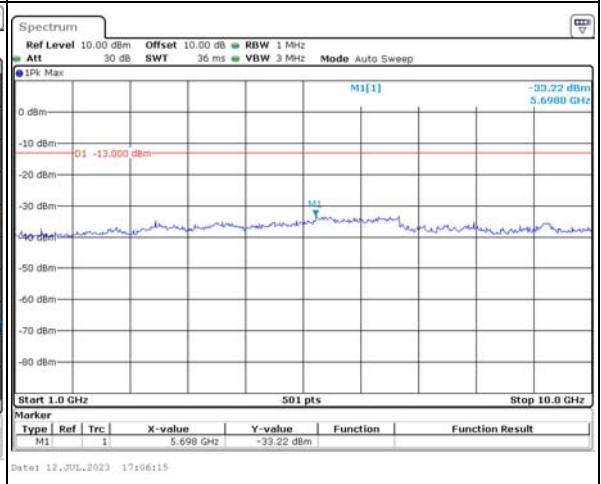
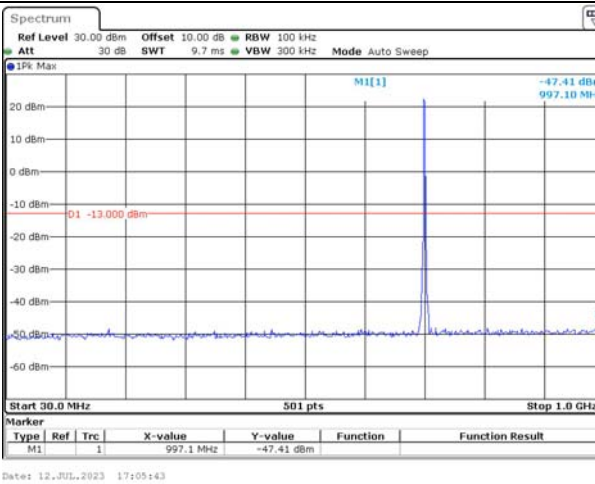
Channel

1.4MHz Bandwidth QPSK

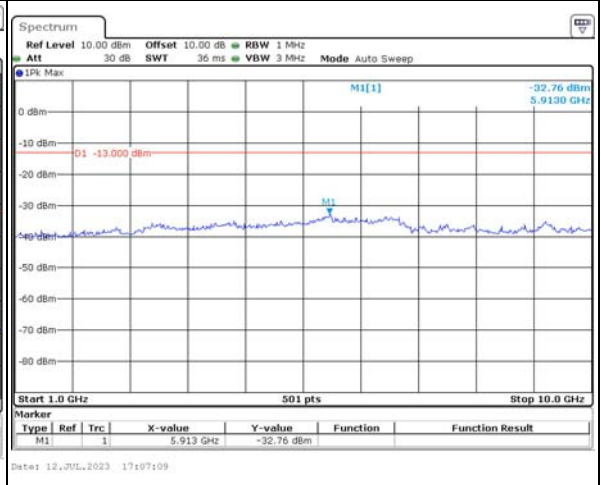
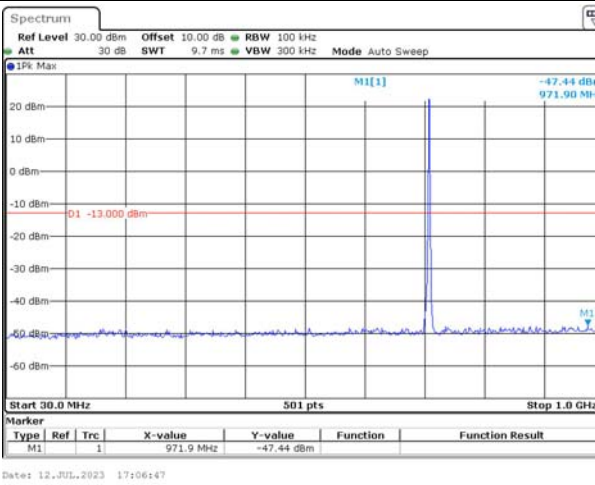
Lowest



Middle



Highest

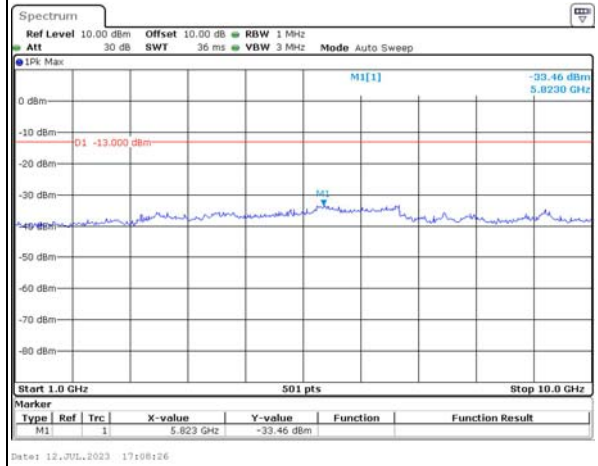
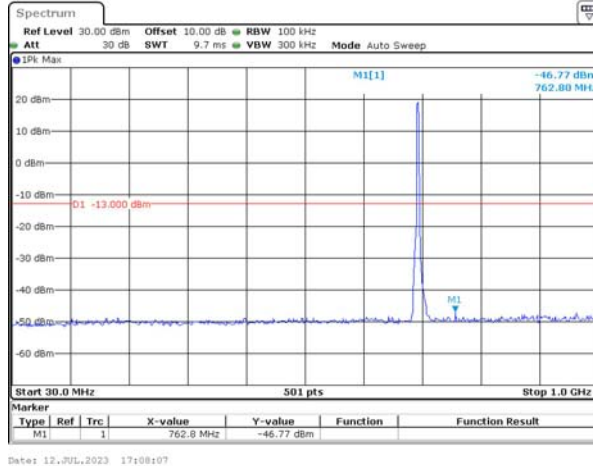


Spurious Emissions at Antenna Terminal

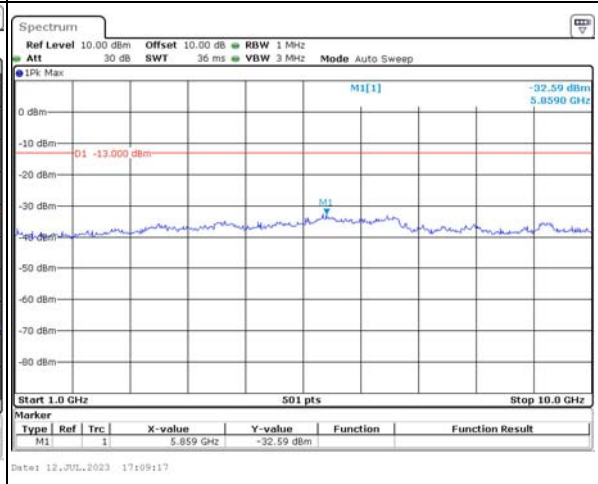
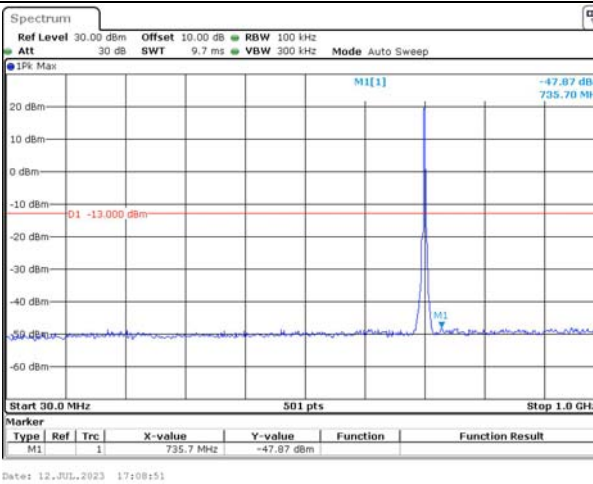
Channel

3MHz Bandwidth QPSK

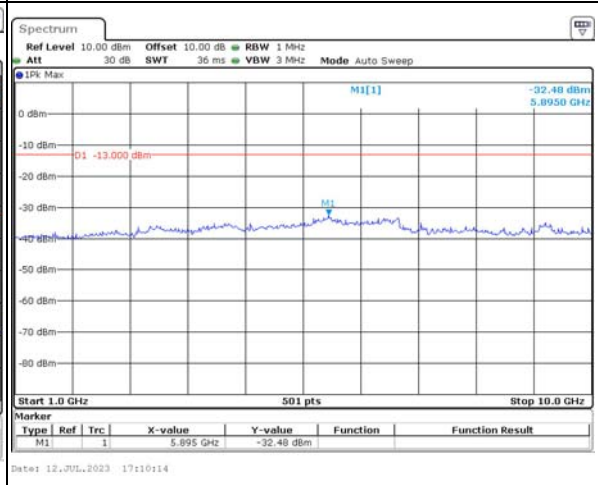
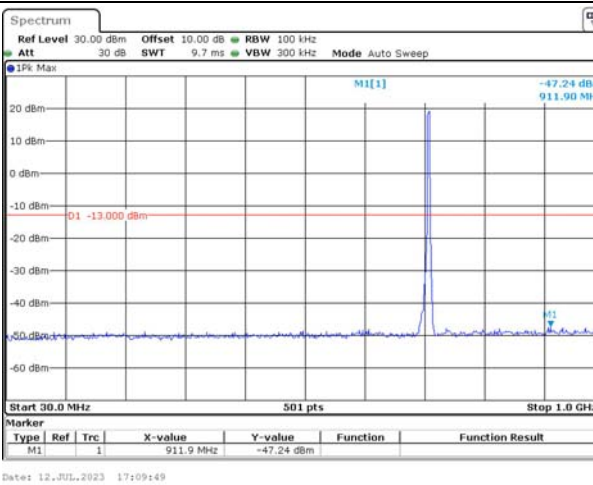
Lowest



Middle



Highest

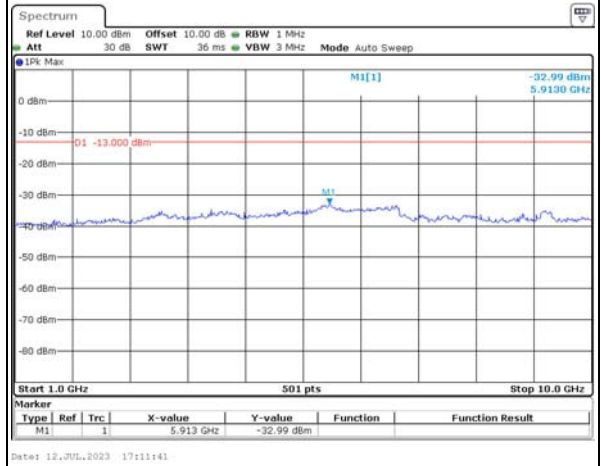
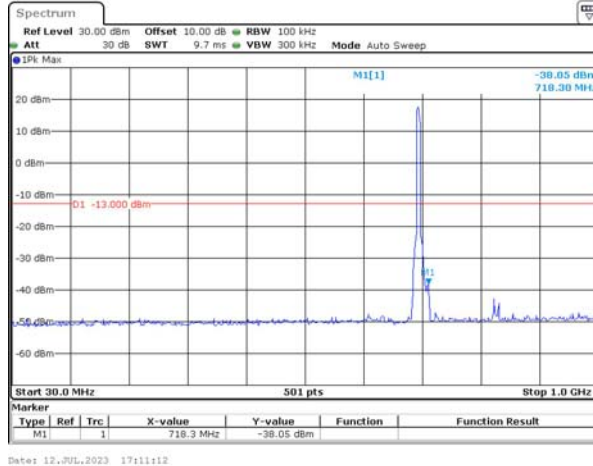


Spurious Emissions at Antenna Terminal

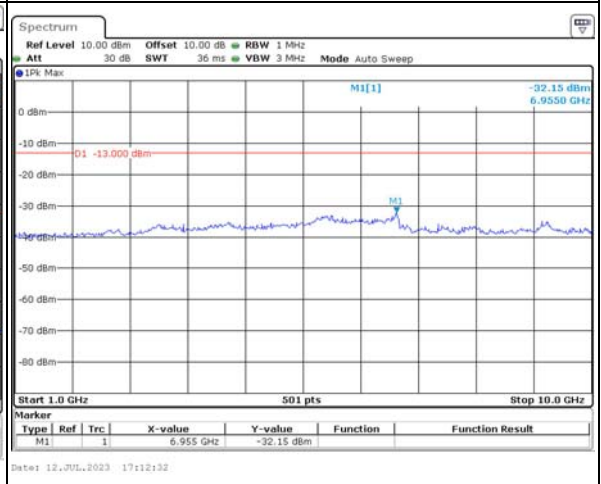
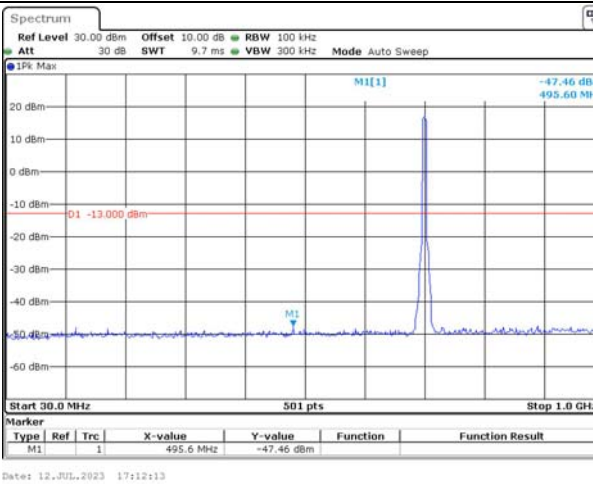
Channel

5MHz Bandwidth QPSK

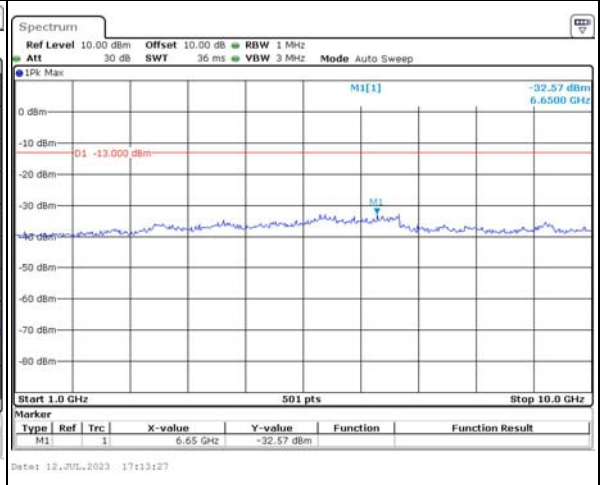
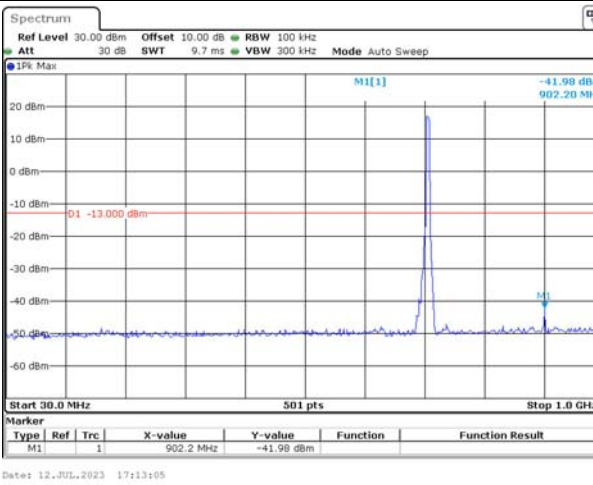
Lowest



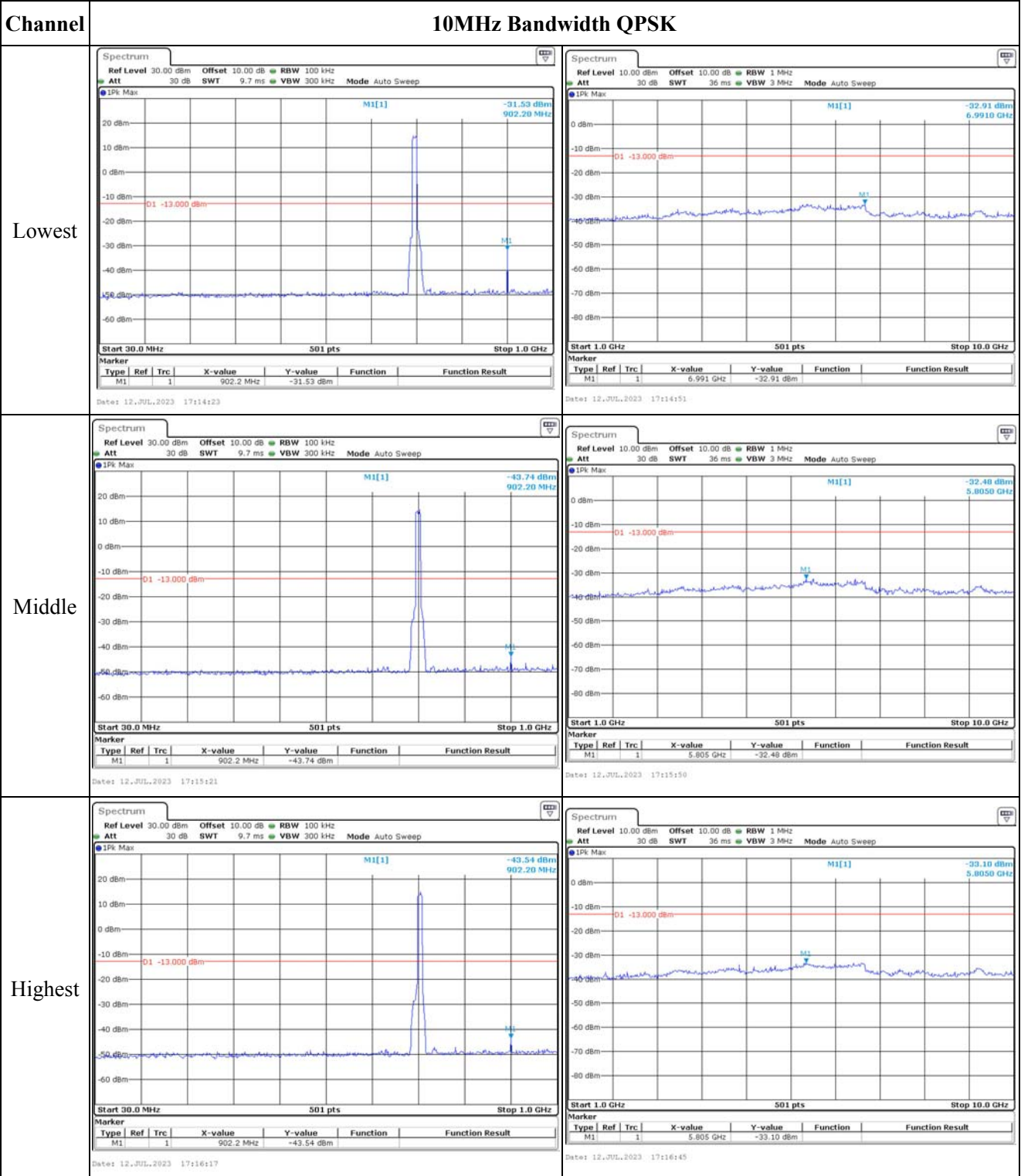
Middle



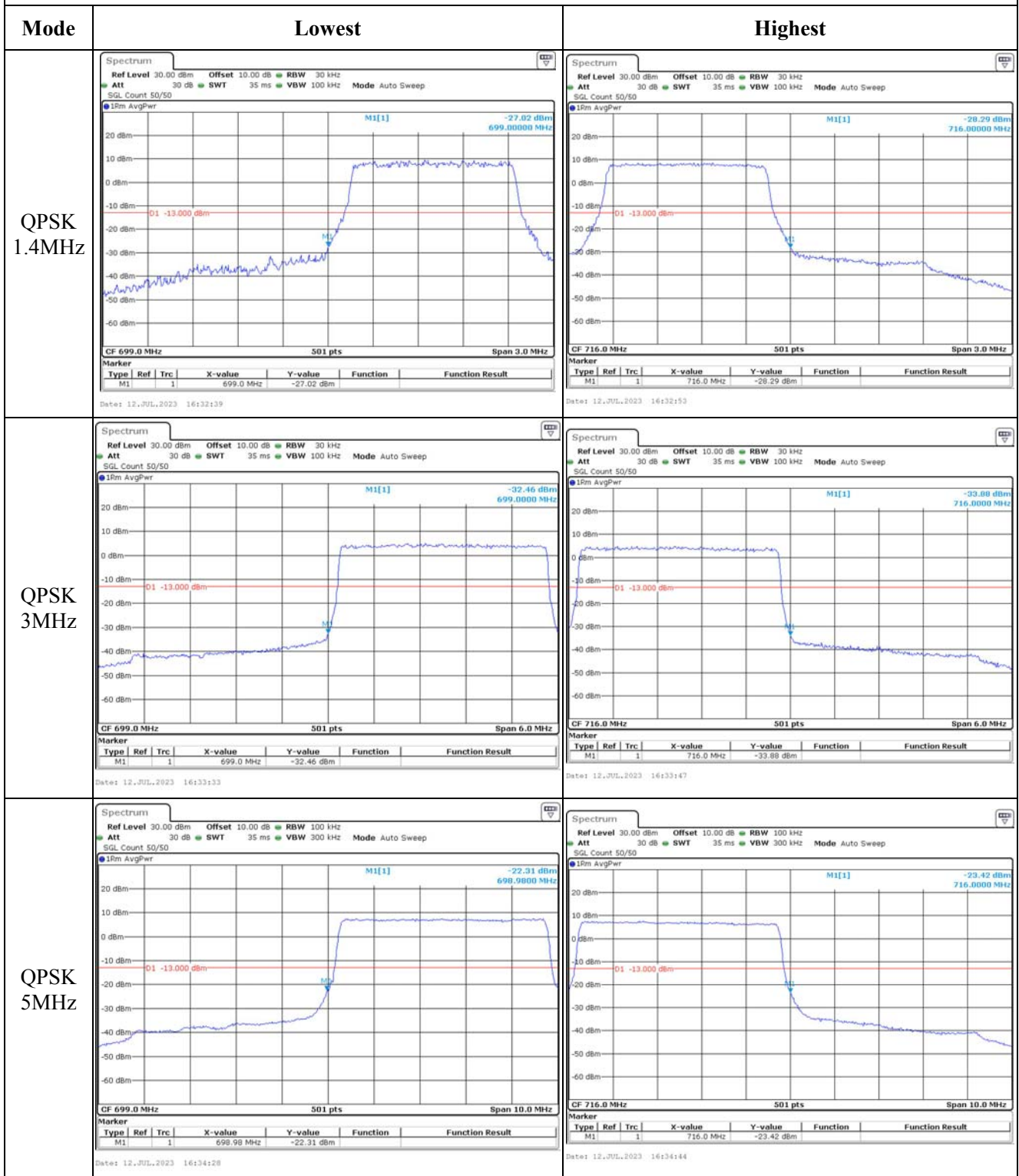
Highest



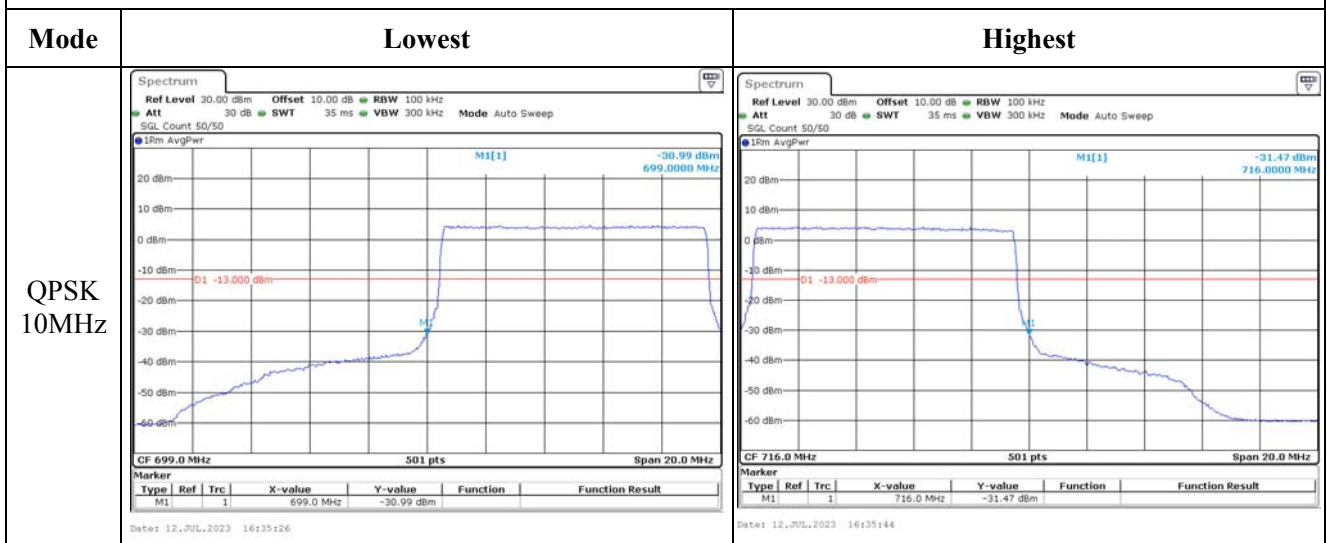
Spurious Emissions at Antenna Terminal



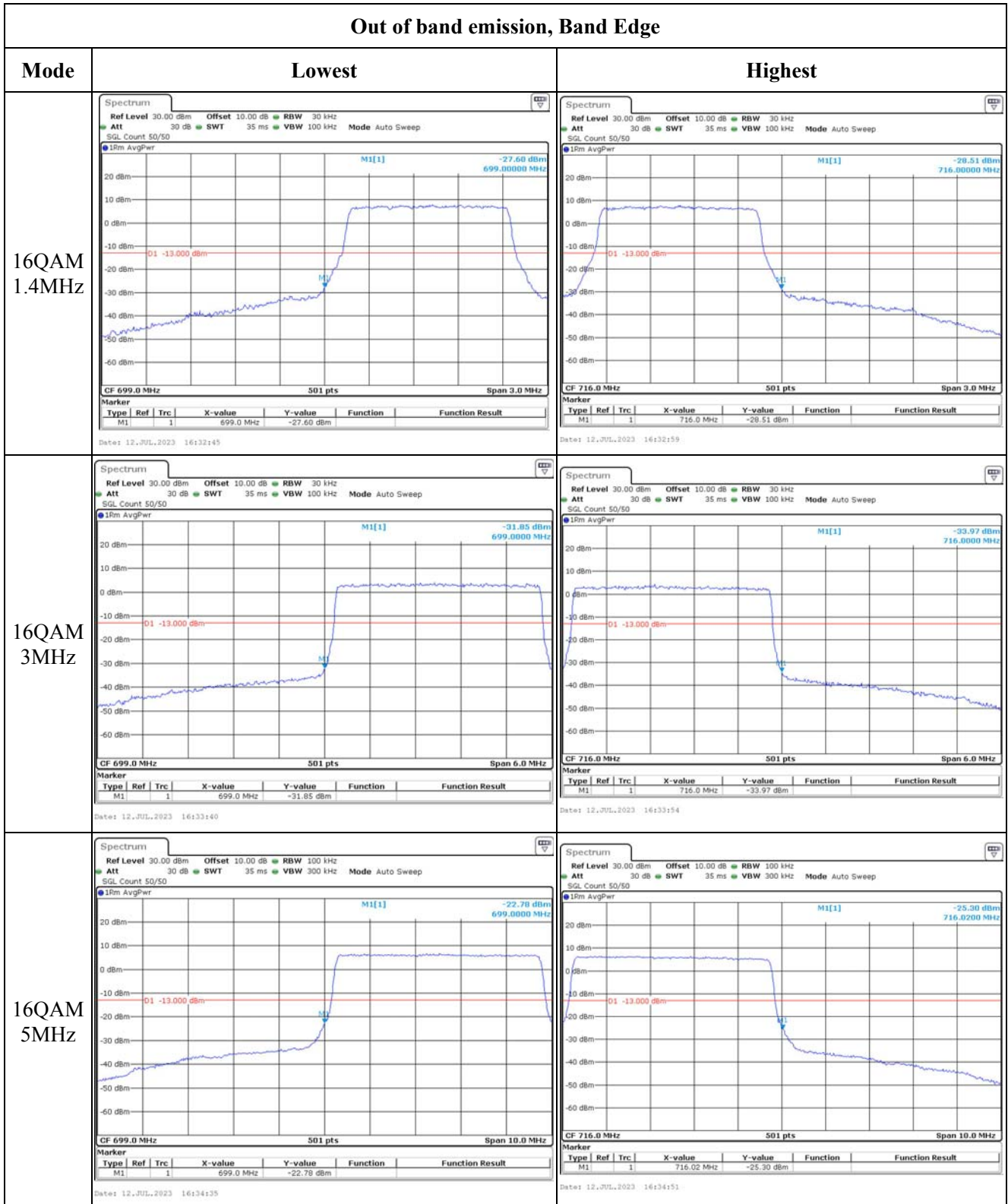
Out of band emission, Band Edge



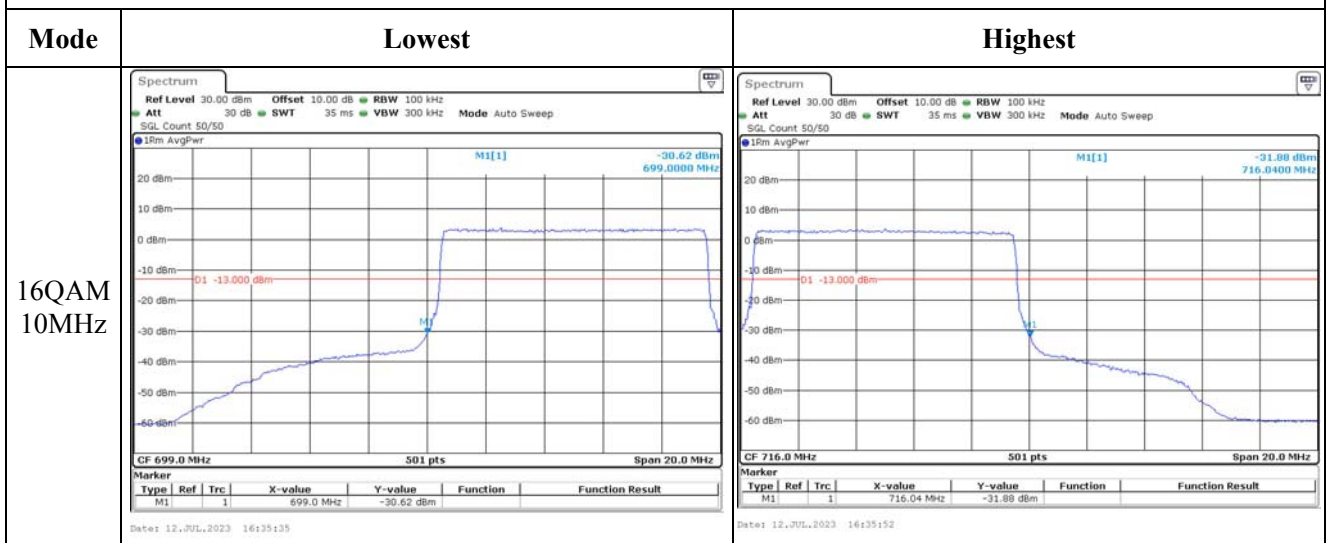
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.11 Antenna Port Test Data and Results for LTE Band 17

Serial Number:	27XL-1	Test Date:	2023/7/12~2023/7/13
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.9~26.1	Relative Humidity: (%)	56~60	ATM Pressure: (kPa)	100.2~100.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
R&S	Wideband Radio Communication Tester	CMW500	143458	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
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2022/9/29	2023/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	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	706.5	710	713.5
10MHz	709	710	711

Test Data:

FCC§2.1046;§ 27.50(c) (10)						
RF Output Power:						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	21.44	21.39	20.88	16.1	34.77
	RB1#13	21.18	21.15	21.42		
	RB1#24	21.14	21.25	21.28		
	RB15#0	20.93	21.2	21.15		
	RB15#10	21.15	21.11	21.45		
	RB25#0	21.24	21.29	21.26		
5MHz 16QAM	RB1#0	21.15	21.1	21.27	16	34.77
	RB1#13	21.03	21.17	20.97		
	RB1#24	21.07	21.17	21.11		
	RB15#0	21.17	21.03	21.06		
	RB15#10	21.03	21.35	21.04		
	RB25#0	21.13	21.3	21.18		
10MHz QPSK	RB1#0	21.56	21.36	21.29	16.5	34.77
	RB1#25	21.74	21.28	21.69		
	RB1#49	21.3	21.55	21.58		
	RB25#0	21.5	21.51	21.66		
	RB25#25	21.3	21.28	21.23		
	RB50#0	21.46	21.85	21.23		
10MHz 16QAM	RB1#0	21.81	21.58	21.27	16.54	34.77
	RB1#25	21.65	21.48	21.67		
	RB1#49	21.51	21.65	21.48		
	RB25#0	21.71	21.16	21.57		
	RB25#25	21.57	21.87	21.89		
	RB50#0	21.41	21.17	21.57		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + Gr(dBd)

Gr(dBd)=Gr(dBi)-2.15

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	
10MHz QPSK	RB1#0	4.58	4.72	4.55	13
	RB50#0	5.01	5.07	4.96	13
10MHz 16QAM	RB1#0	5.33	5.62	5.65	13
	RB50#0	6.03	6	6.06	13
Result:					Pass

FCC §2.1049, §27.53: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	4.551	4.531	5.18	5.24	5.2
5MHz 16QAM	4.551	4.511	4.531	5.26	5.16	5.2
10MHz QPSK	8.942	8.942	8.982	9.84	9.92	9.88
10MHz 16QAM	8.942	8.982	8.942	9.92	9.84	9.76

Note: The test plots please refer to the Plots of Occupied Bandwidth

FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

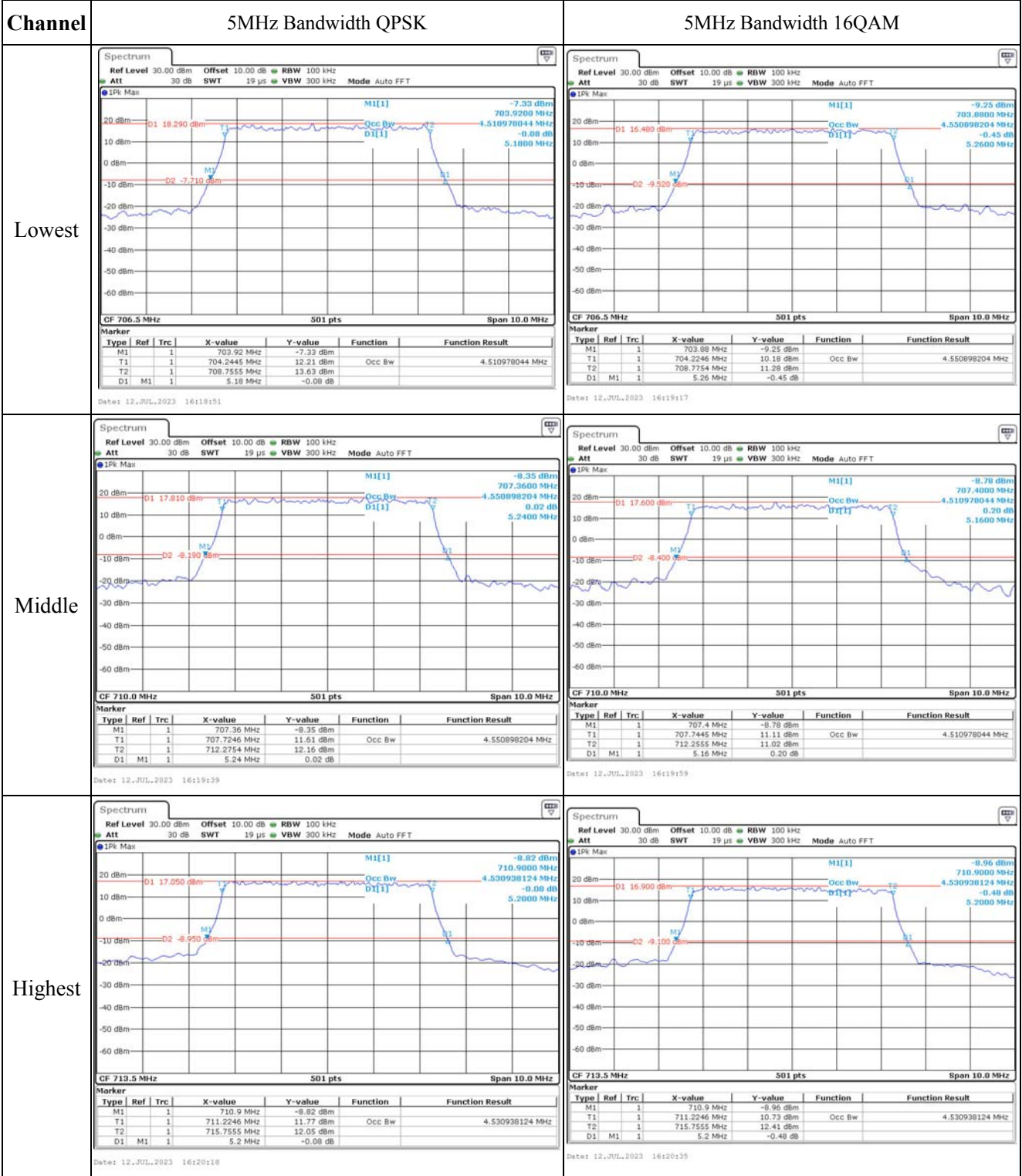
FCC §2.1051, §27.53:Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

FCC §2.1055, §27.54: Frequency Stability						
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	3.85	704.022	704.00	715.979	716.00
	-20	3.85	704.013	704.00	715.986	716.00
	-10	3.85	704.016	704.00	715.989	716.00
	0	3.85	704.014	704.00	715.988	716.00
	10	3.85	704.018	704.00	715.985	716.00
	20	3.85	704.015	704.00	715.983	716.00
	30	3.85	704.011	704.00	715.978	716.00
	40	3.85	704.015	704.00	715.980	716.00
Frequency Stability vs. Voltage	20	3.5	704.015	704.00	715.977	716.00
	20	4.4	704.014	704.00	715.981	716.00
					Result:	Pass

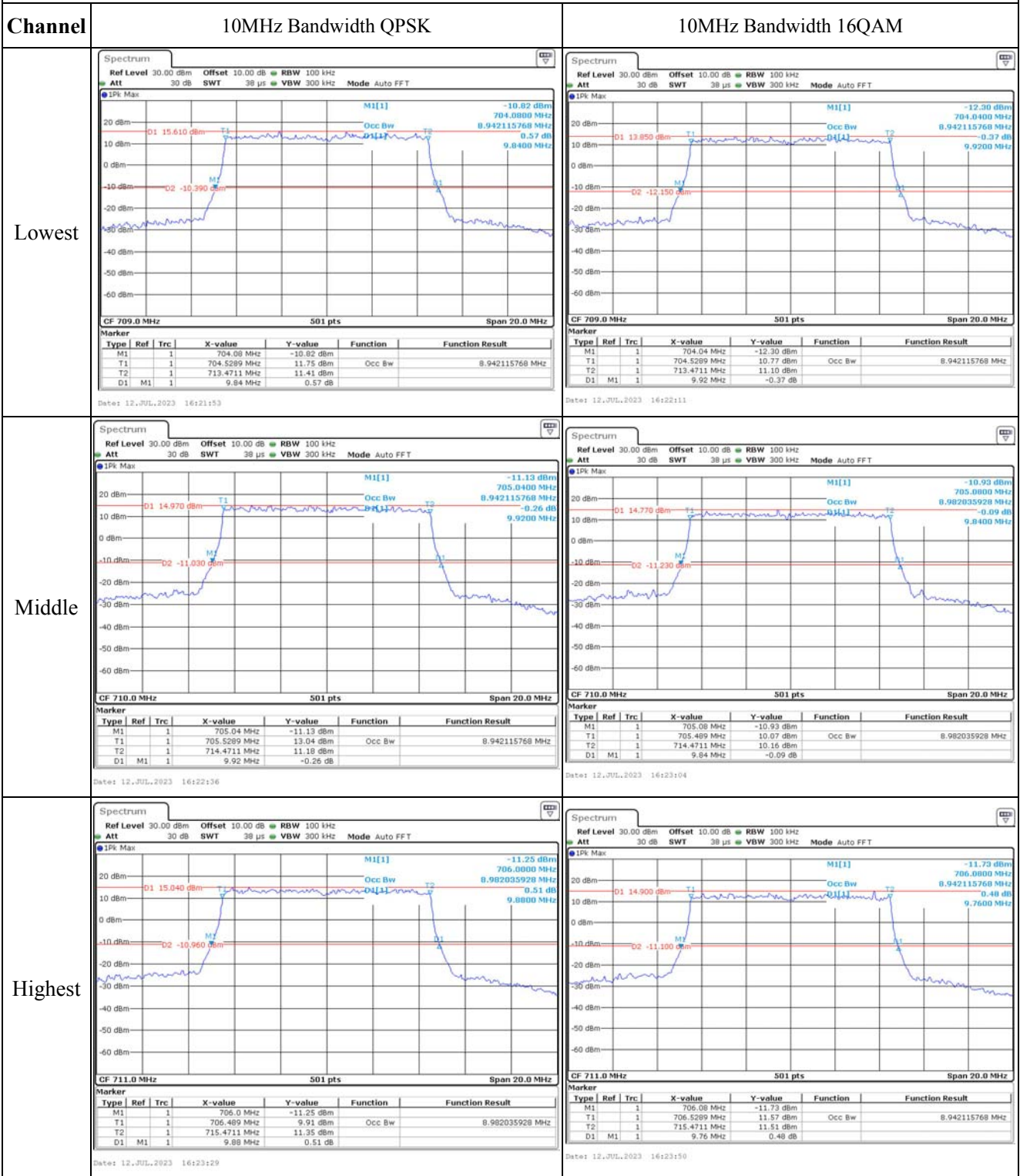
Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	704.013	704.00	715.983	716.00
	-20	3.85	704.018	704.00	715.988	716.00
	-10	3.85	704.019	704.00	715.983	716.00
	0	3.85	704.019	704.00	715.988	716.00
	10	3.85	704.014	704.00	715.989	716.00
	20	3.85	704.014	704.00	715.979	716.00
	30	3.85	704.011	704.00	715.980	716.00
	40	3.85	704.020	704.00	715.985	716.00
	50	3.85	704.023	704.00	715.987	716.00
Frequency Stability vs. Voltage	20	3.5	704.018	704.00	715.980	716.00
	20	4.4	704.016	704.00	715.985	716.00
					Result:	Pass

Test Plots(Note: The 10 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

Occupied Bandwidth



Occupied Bandwidth

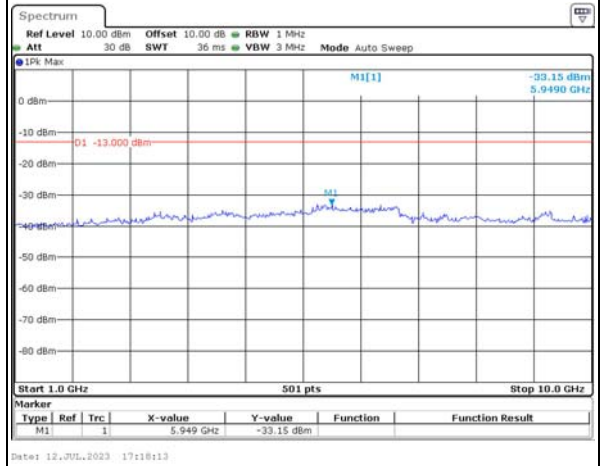
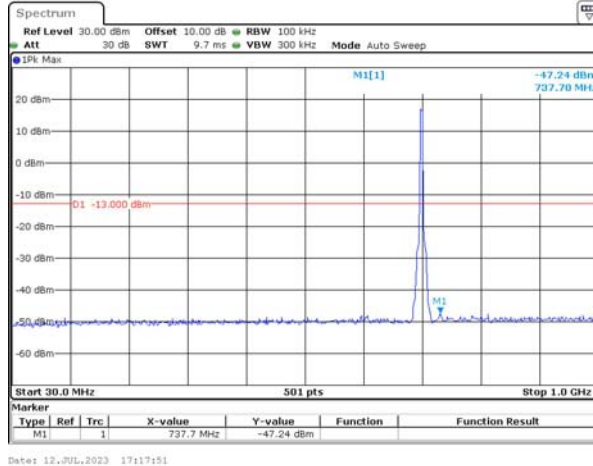


Spurious Emissions at Antenna Terminal

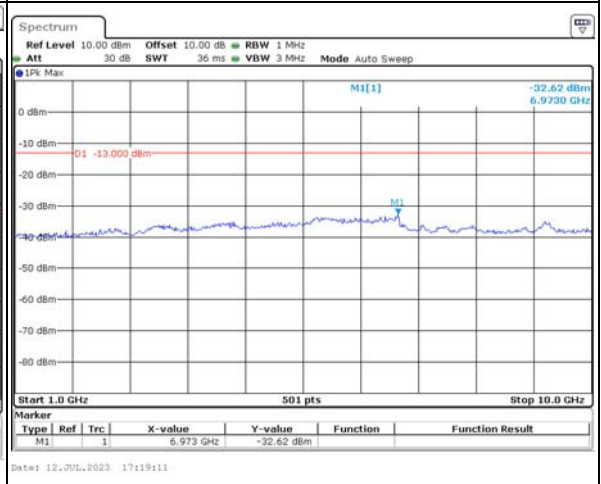
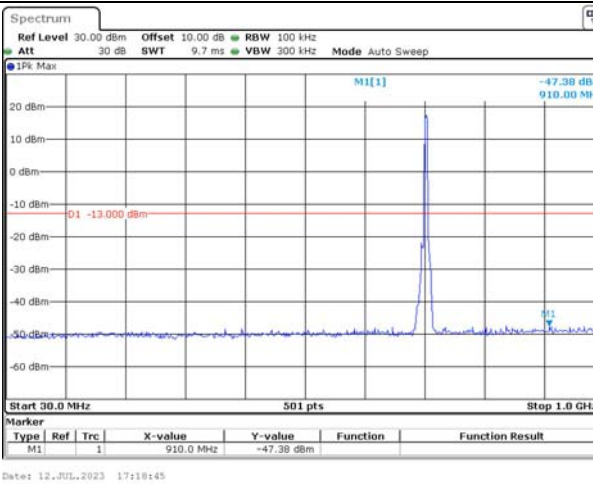
Channel

5MHz Bandwidth QPSK

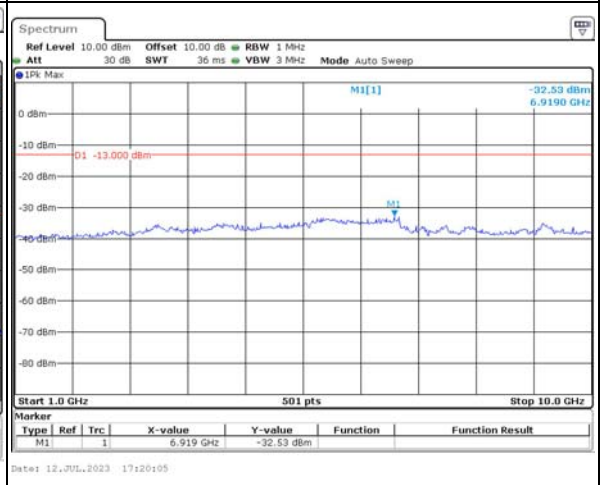
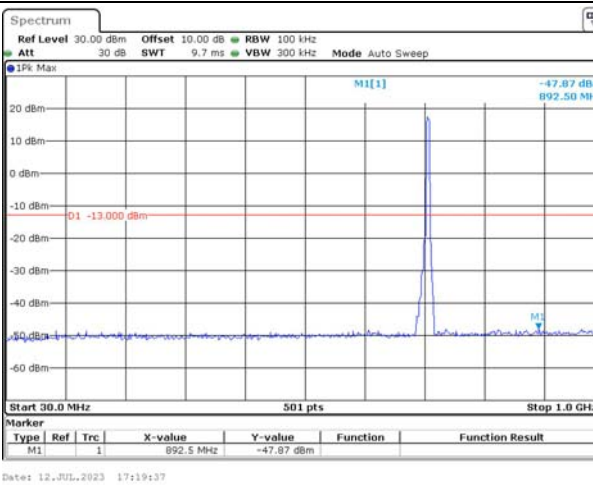
Lowest



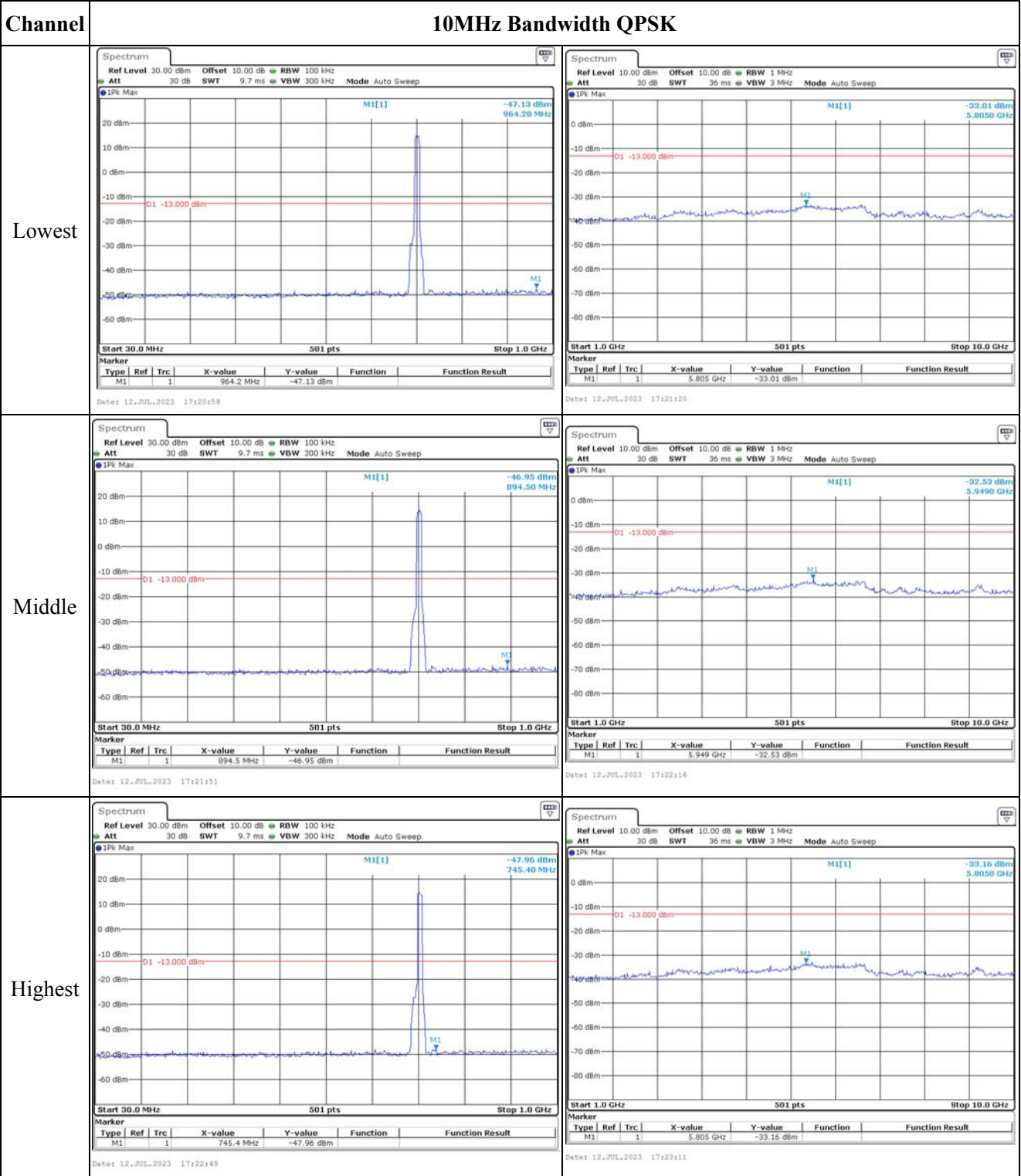
Middle



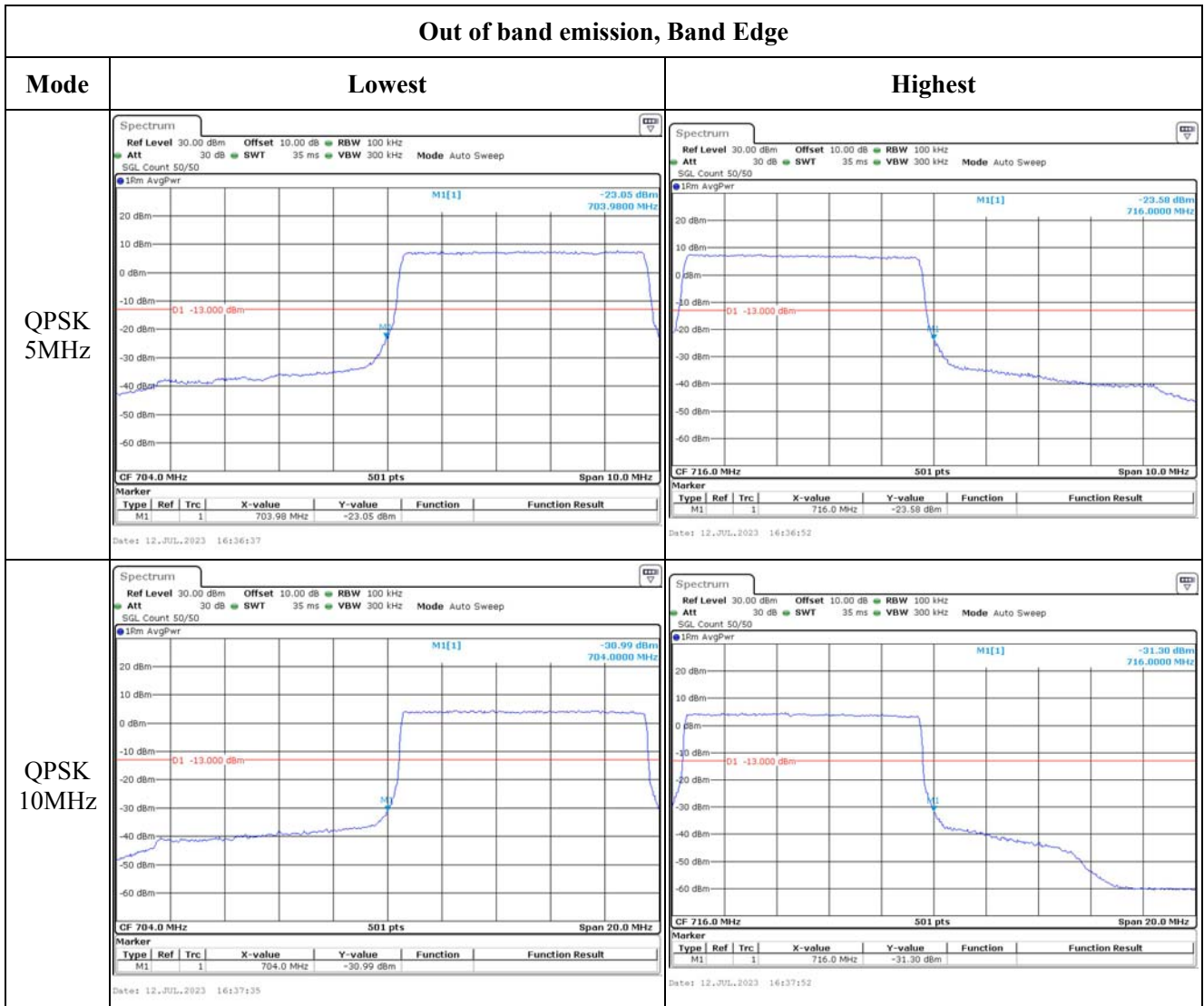
Highest



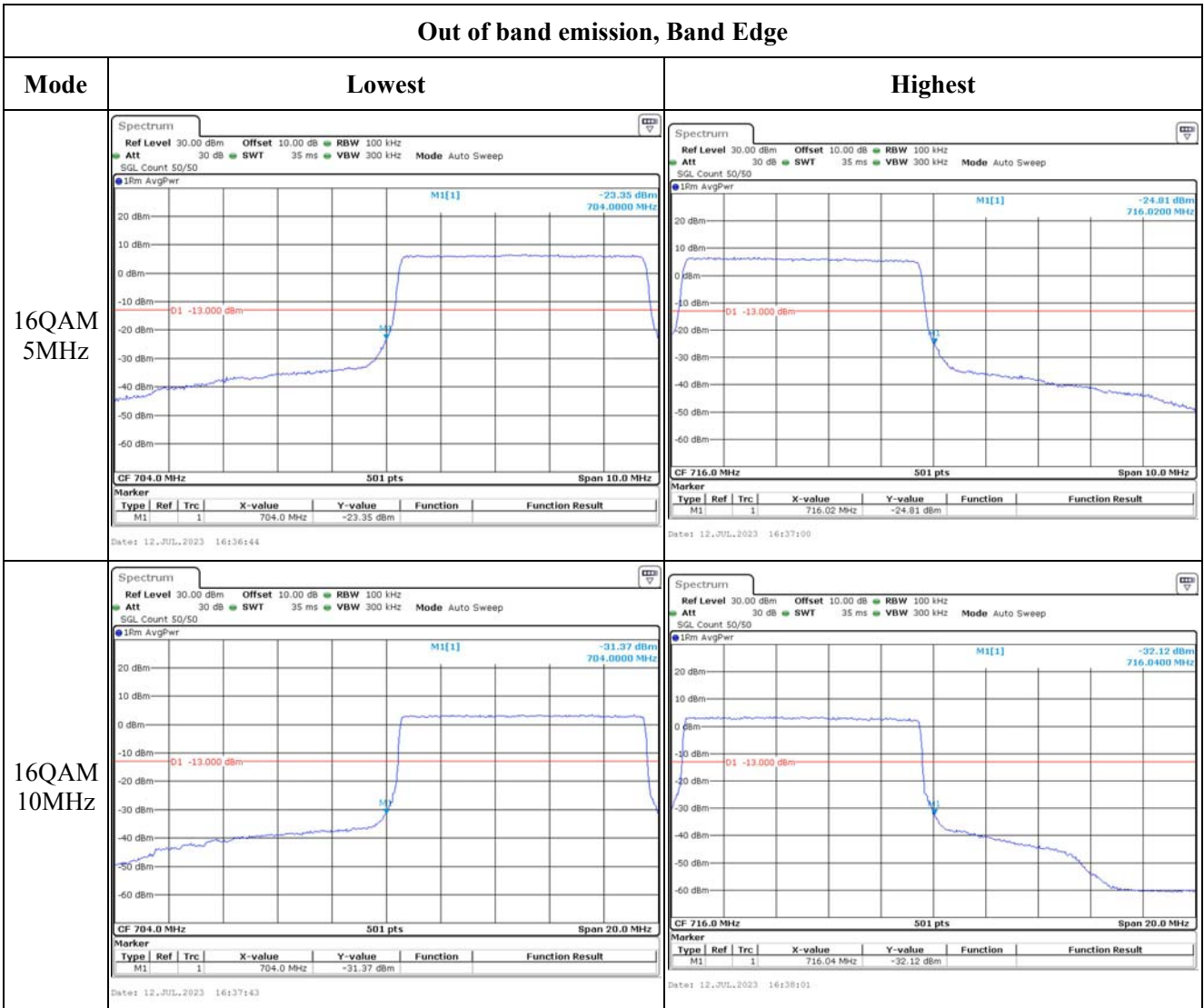
Spurious Emissions at Antenna Terminal



Out of band emission, Band Edge



Out of band emission, Band Edge



4.12 Antenna Port Test Data and Results for LTE Band 66

Serial Number:	27XL-1	Test Date:	2023/7/12~2023/7/13
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.9~26.1	Relative Humidity: (%)	56~60	ATM Pressure: (kPa)	100.2~100.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
R&S	Wideband Radio Communication Tester	CMW500	143458	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
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2022/9/29	2023/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	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)
1.4MHz	1710.7	1745	1779.3
3MHz	1711.5	1745	1778.5
5MHz	1712.5	1745	1777.5
10MHz	1715	1745	1775
15MHz	1717.5	1745	1772.5
20MHz	1720	1745	1770

Test Data:

FCC§2.1046;§ 27.50(d)(4)						
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	23.42	23.38	23.49	21.18	30
	RB1#3	23.64	23.61	23.68		
	RB1#5	23.45	23.37	23.48		
	RB3#0	23.54	23.51	23.55		
	RB3#3	23.58	23.47	23.58		
	RB6#0	22.49	22.51	22.55		
1.4MHz 16QAM	RB1#0	22.45	22.39	22.59	20.3	30
	RB1#3	22.64	22.56	22.8		
	RB1#5	22.47	22.4	22.6		
	RB3#0	22.61	22.63	22.57		
	RB3#3	22.66	22.7	22.57		
	RB6#0	21.49	21.57	21.61		
3MHz QPSK	RB1#0	23.51	23.43	23.51	21.01	30
	RB1#8	23.47	23.42	23.51		
	RB1#14	23.5	23.41	23.49		
	RB6#0	22.37	22.41	22.44		
	RB6#9	22.42	22.41	22.45		
	RB15#0	22.43	22.44	22.47		
3MHz 16QAM	RB1#0	22.52	23	22.67	20.5	30
	RB1#8	22.49	22.92	22.63		
	RB1#14	22.48	22.9	22.63		
	RB6#0	21.4	21.52	21.52		
	RB6#9	21.43	21.5	21.54		
	RB15#0	21.55	21.55	21.53		
5MHz QPSK	RB1#0	23.39	23.38	23.48	21.05	30
	RB1#13	23.52	23.44	23.55		
	RB1#24	23.41	23.33	23.43		
	RB15#0	22.51	22.49	22.55		
	RB15#10	22.48	22.46	22.5		
	RB25#0	22.48	22.45	22.5		
5MHz 16QAM	RB1#0	22.48	22.23	22.72	20.35	30
	RB1#13	22.6	22.35	22.85		
	RB1#24	22.48	22.26	22.73		
	RB15#0	21.59	21.57	21.62		
	RB15#10	21.6	21.57	21.55		
	RB25#0	21.57	21.58	21.58		
10MHz QPSK	RB1#0	23.52	23.5	23.52	21.2	30
	RB1#25	23.7	23.64	23.66		
	RB1#49	23.48	23.52	23.52		

	RB25#0	22.56	22.53	22.6		
	RB25#25	22.54	22.5	22.58		
	RB50#0	22.58	22.55	22.58		
10MHz 16QAM	RB1#0	22.62	22.45	23.13	20.77	30
	RB1#25	22.82	22.62	23.27		
	RB1#49	22.63	22.48	23.1		
	RB25#0	21.64	21.69	21.74		
	RB25#25	21.65	21.7	21.7		
	RB50#0	21.67	21.67	21.68		
15MHz QPSK	RB1#0	23.46	23.44	23.47	21.09	30
	RB1#38	23.54	23.56	23.59		
	RB1#74	23.44	23.45	23.5		
	RB36#0	22.55	22.62	22.66		
	RB36#39	22.58	22.59	22.64		
	RB75#0	22.57	22.63	22.64		
15MHz 16QAM	RB1#0	22.59	22.83	23.06	20.69	30
	RB1#38	22.69	22.92	23.19		
	RB1#74	22.59	22.86	23.08		
	RB36#0	21.63	21.63	21.71		
	RB36#39	21.65	21.62	21.7		
	RB75#0	21.64	21.64	21.69		
20MHz QPSK	RB1#0	22.88	22.88	22.79	20.93	30
	RB1#50	23.18	22.89	22.84		
	RB1#99	22.84	23.43	22.88		
	RB50#0	22.84	23.03	23.1		
	RB50#50	23.26	22.9	23.17		
	RB100#0	23.22	23.02	23.07		
20MHz 16QAM	RB1#0	23.11	23.05	22.97	20.77	30
	RB1#50	22.93	22.82	23.13		
	RB1#99	22.9	22.85	23.05		
	RB50#0	23.04	23.21	22.93		
	RB50#50	23.14	23.27	23.17		
	RB100#0	23.14	22.96	22.71		

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	5.48	5.01	5.19	13
	RB100#0	5.51	5.25	5.39	13
20MHz 16QAM	RB1#0	6.41	6.64	5.42	13
	RB100#0	6.41	6.2	6.38	13
				Result:	Pass

FCC §2.1049, §27.53: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	1.09	1.096	1.326	1.296	1.308
1.4MHz 16QAM	1.102	1.096	1.096	1.326	1.32	1.284
3MHz QPSK	2.683	2.683	2.695	2.88	2.868	2.88
3MHz 16QAM	2.683	2.683	2.683	2.88	2.88	2.88
5MHz QPSK	4.531	4.551	4.511	5.58	5.22	5.22
5MHz 16QAM	4.531	4.511	4.551	5.26	5.18	5.24
10MHz QPSK	8.982	8.982	8.942	9.96	10	9.88
10MHz 16QAM	8.982	8.942	8.942	9.92	9.8	9.88
15MHz QPSK	13.533	13.533	13.533	15.18	15.24	15.18
15MHz 16QAM	13.533	13.533	13.533	15.06	15.12	15.06
20MHz QPSK	17.964	18.044	17.964	19.76	20	19.6
20MHz 16QAM	17.964	17.964	18.044	19.68	19.68	19.6

Note: The test plots please refer to the Plots of Occupied Bandwidth

FCC §2.1051, § 27.53:Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

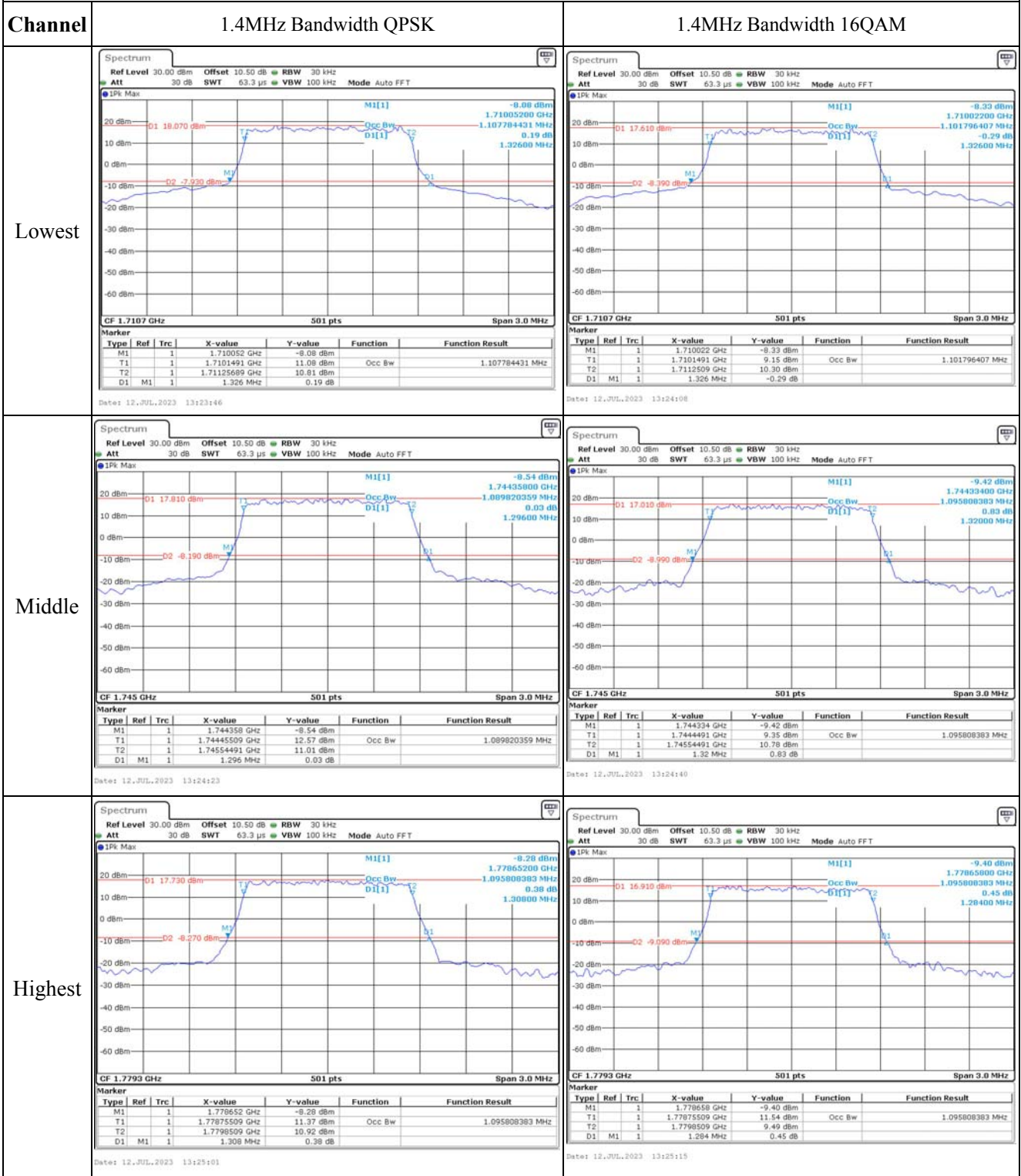
FCC §2.1051, § 27.53:Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

FCC §2.1055, §27.54: 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	3.85	1710.021	1710.00	1779.984	1780
	-20	3.85	1710.020	1710.00	1779.979	1780
	-10	3.85	1710.018	1710.00	1779.985	1780
	0	3.85	1710.018	1710.00	1779.983	1780
	10	3.85	1710.011	1710.00	1779.979	1780
	20	3.85	1710.013	1710.00	1779.984	1780
	30	3.85	1710.022	1710.00	1779.978	1780
	40	3.85	1710.011	1710.00	1779.986	1780
Frequency Stability vs. Voltage	20	3.5	1710.011	1710.00	1779.989	1780
	20	4.4	1710.012	1710.00	1779.985	1780
	Result:					Pass

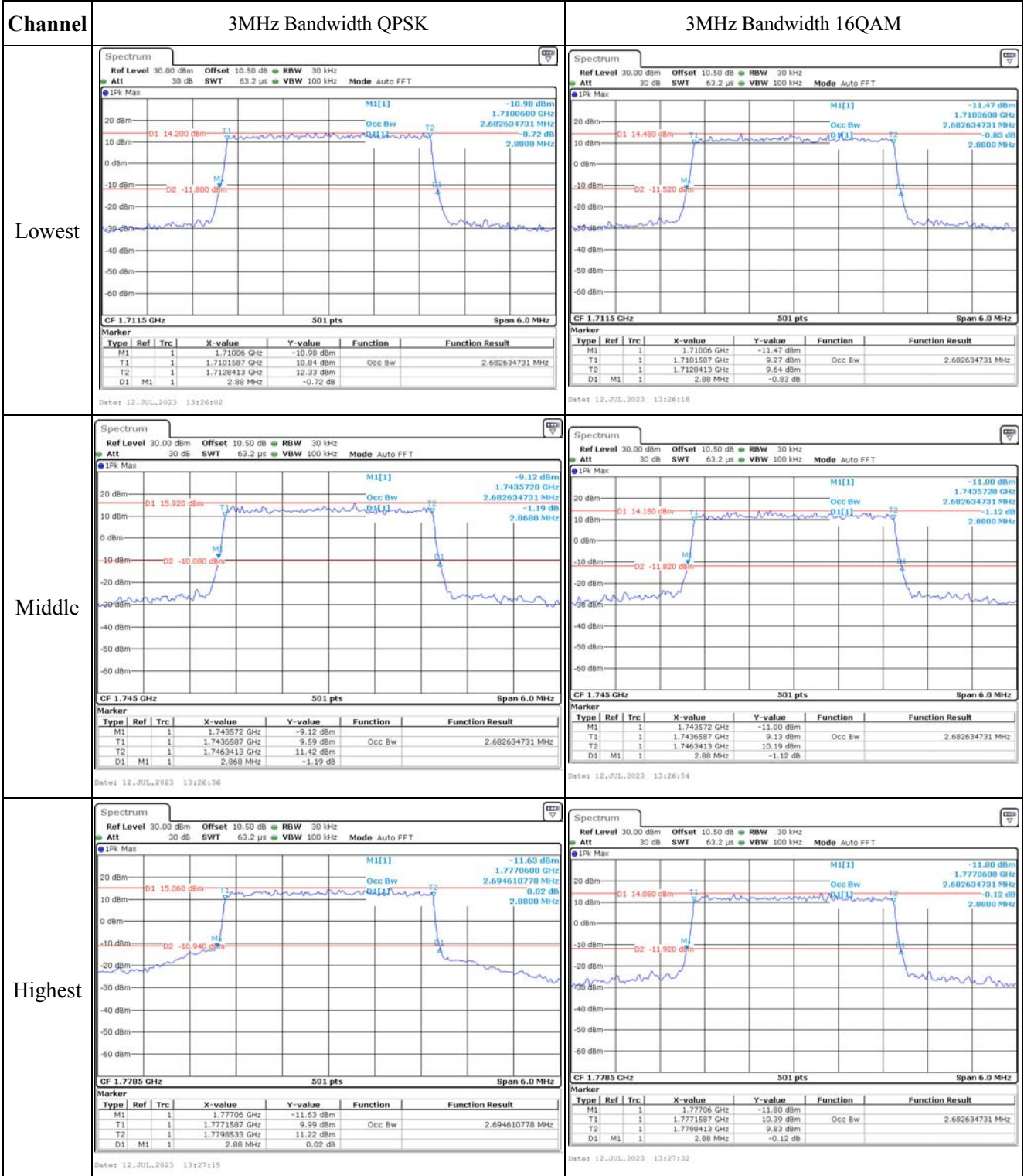
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	1710.016	1710.00	1779.978	1780
	-20	3.85	1710.017	1710.00	1779.983	1780
	-10	3.85	1710.019	1710.00	1779.985	1780
	0	3.85	1710.017	1710.00	1779.978	1780
	10	3.85	1710.021	1710.00	1779.977	1780
	20	3.85	1710.012	1710.00	1779.983	1780
	30	3.85	1710.020	1710.00	1779.983	1780
	40	3.85	1710.016	1710.00	1779.978	1780
	50	3.85	1710.023	1710.00	1779.982	1780
Frequency Stability vs. Voltage	20	3.5	1710.022	1710.00	1779.985	1780
	20	4.4	1710.011	1710.00	1779.979	1780
					Result:	Pass

Test Plots(Note: The 10.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

Occupied Bandwidth



Occupied Bandwidth



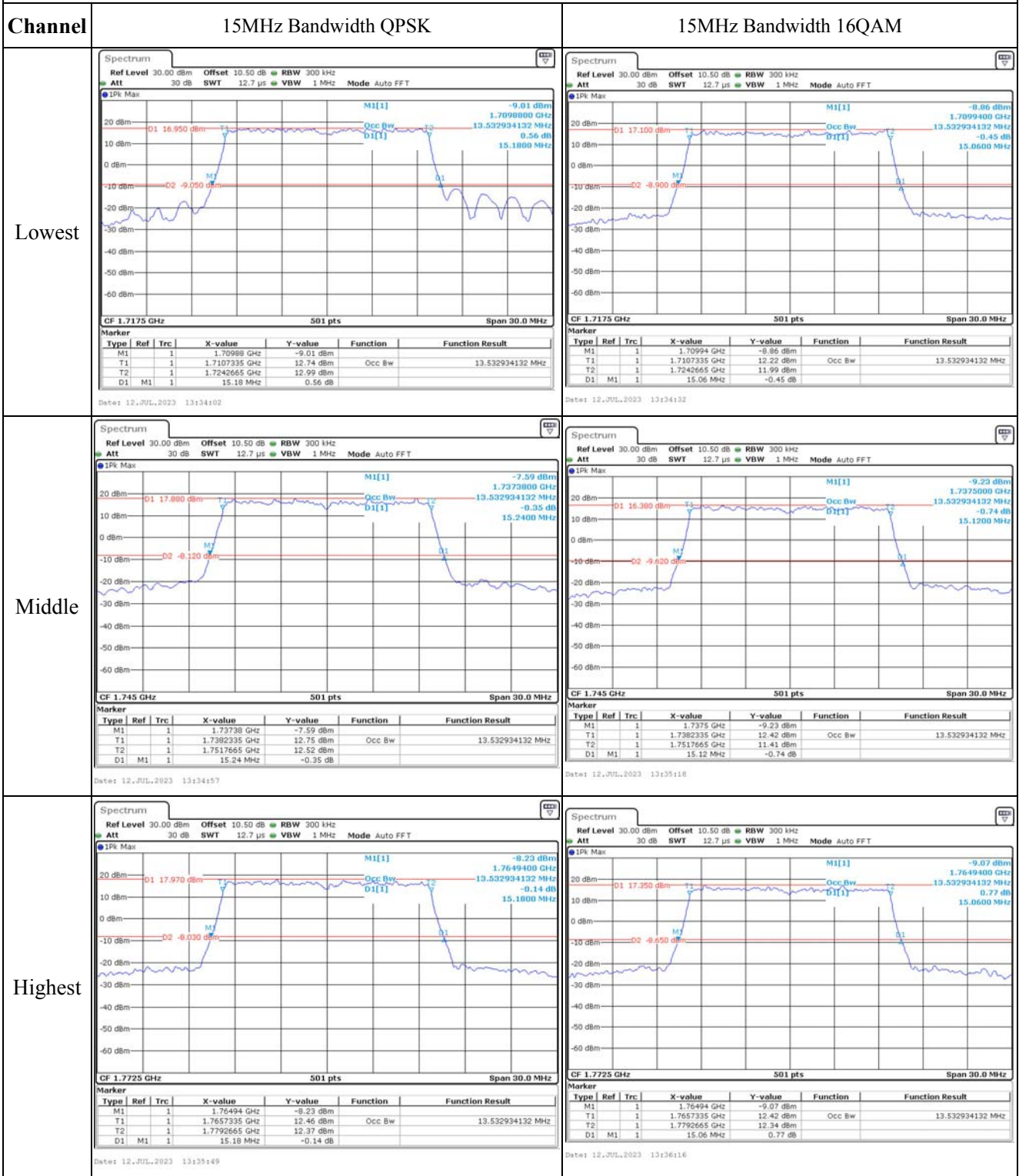
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Occupied Bandwidth



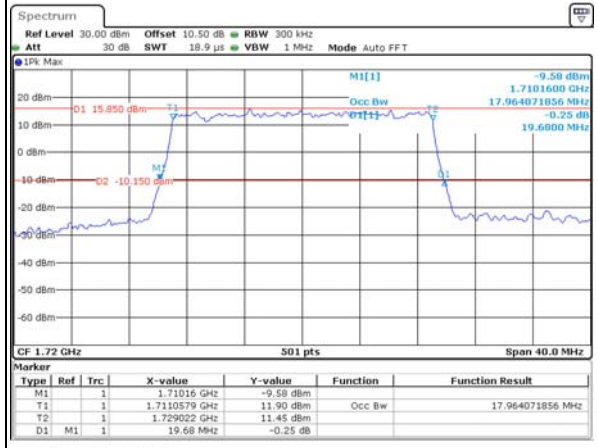
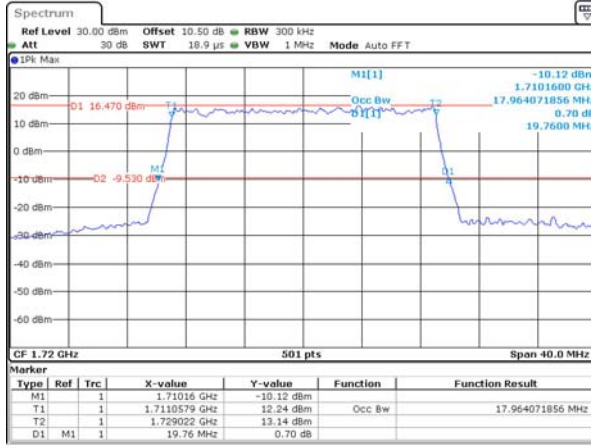
Occupied Bandwidth

Channel

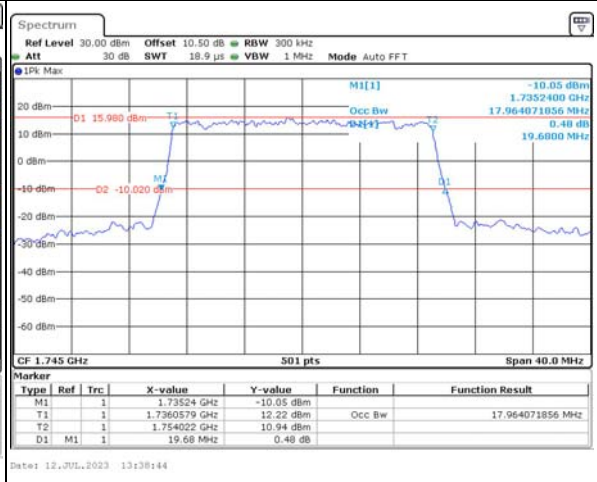
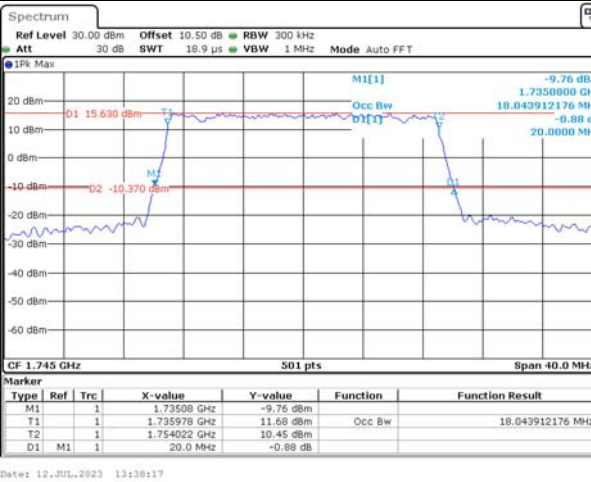
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

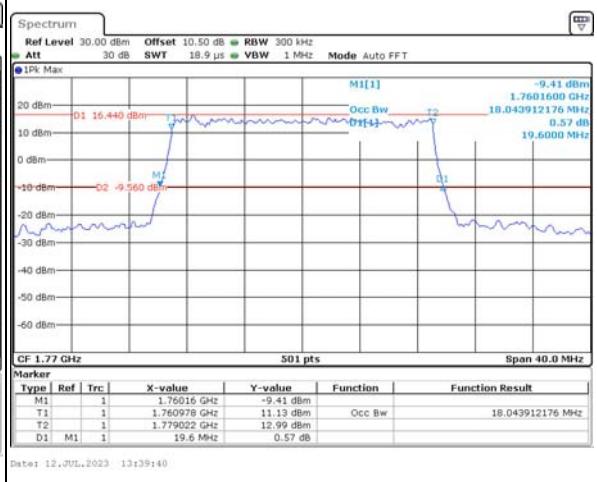
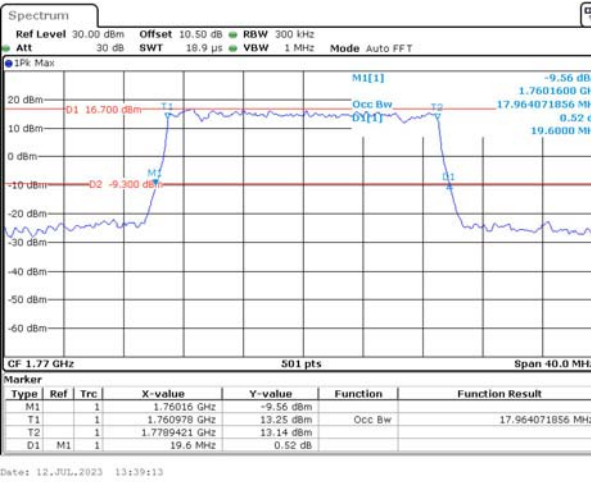
Lowest



Middle



Highest

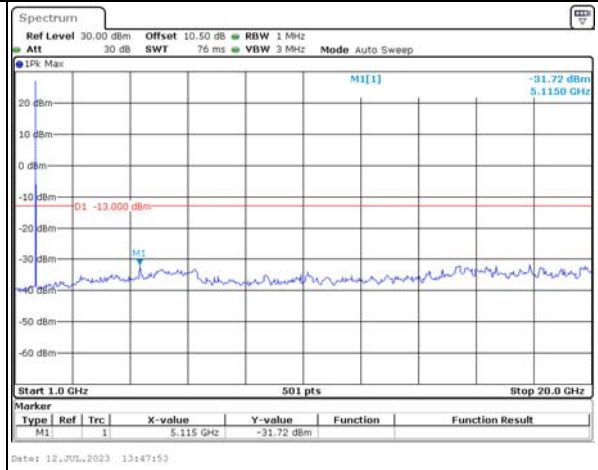
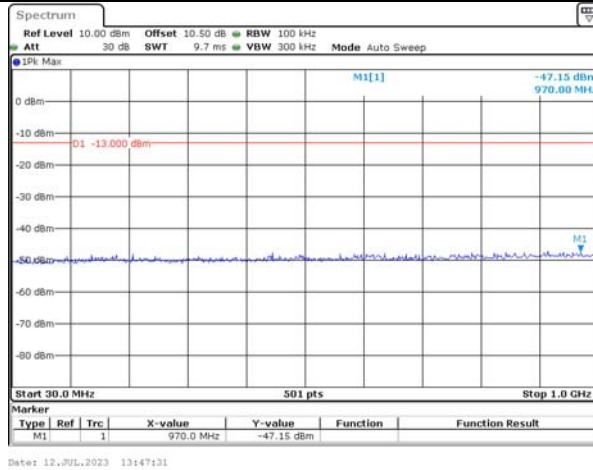


Spurious Emissions at Antenna Terminal

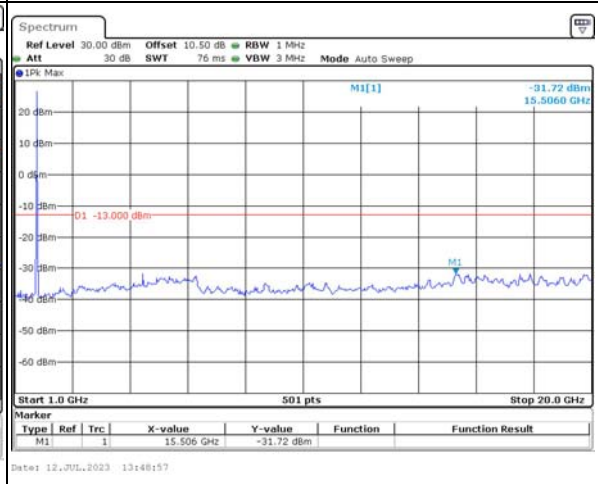
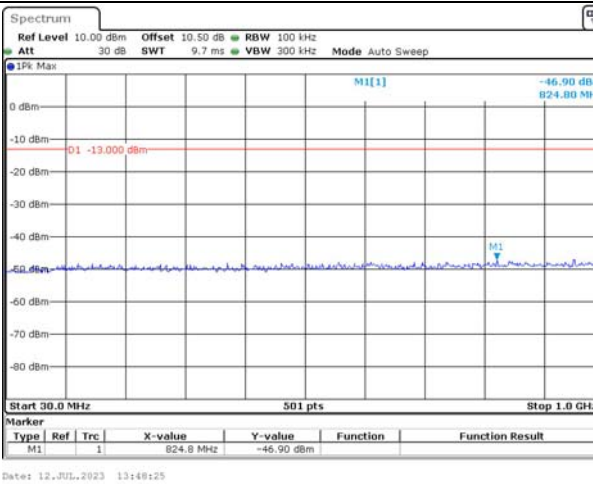
Channel

1.4MHz Bandwidth QPSK

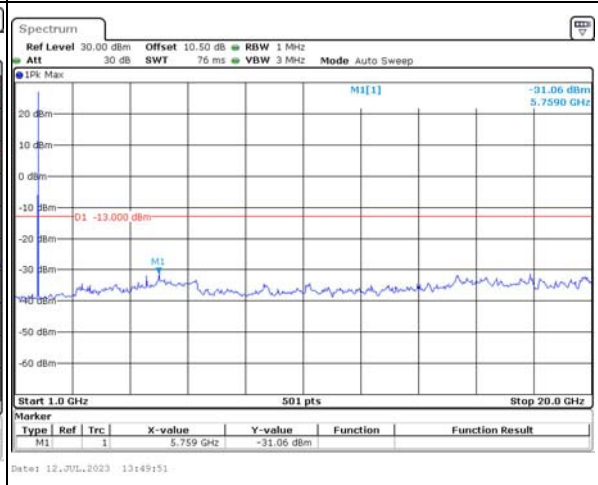
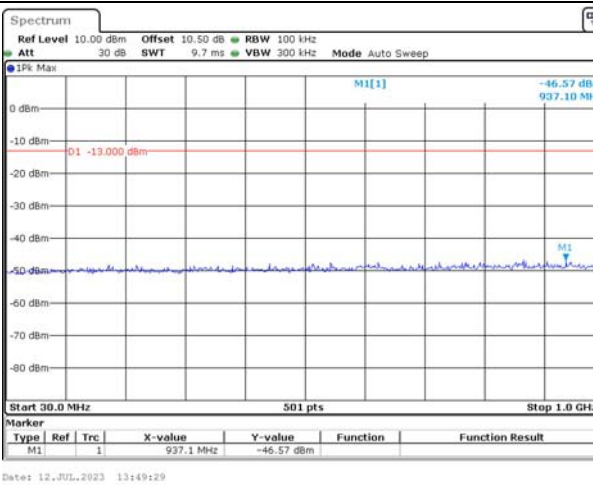
Lowest



Middle



Highest

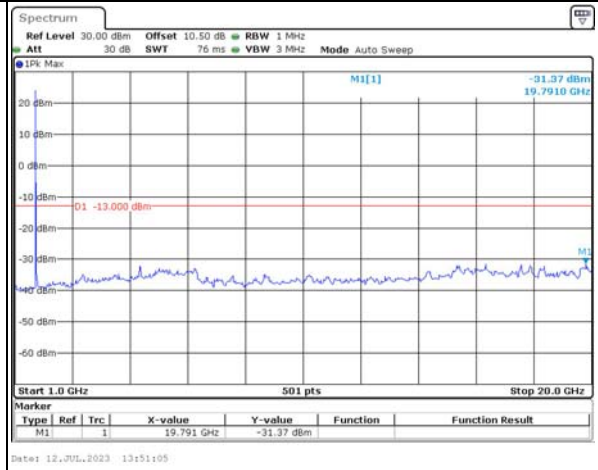
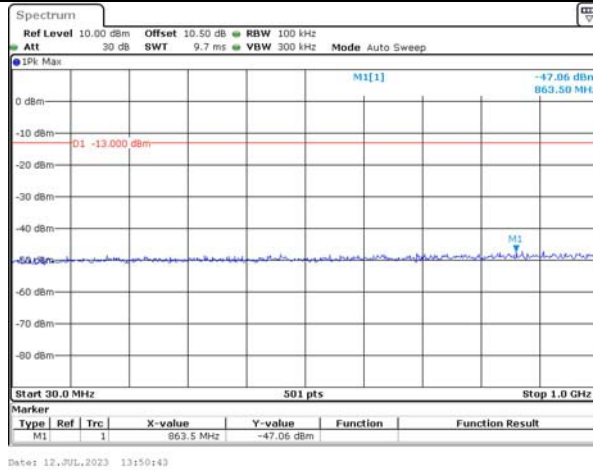


Spurious Emissions at Antenna Terminal

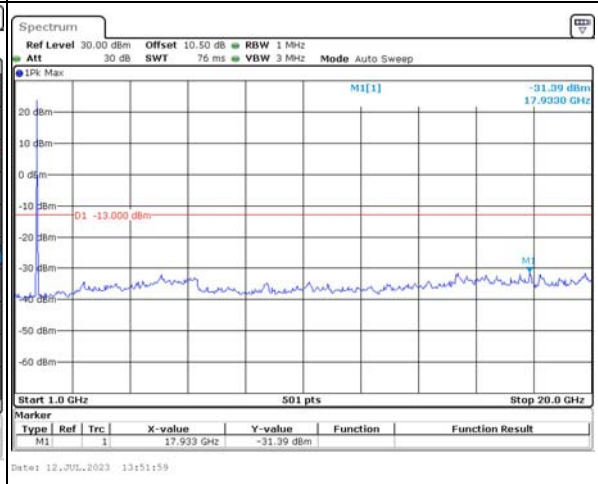
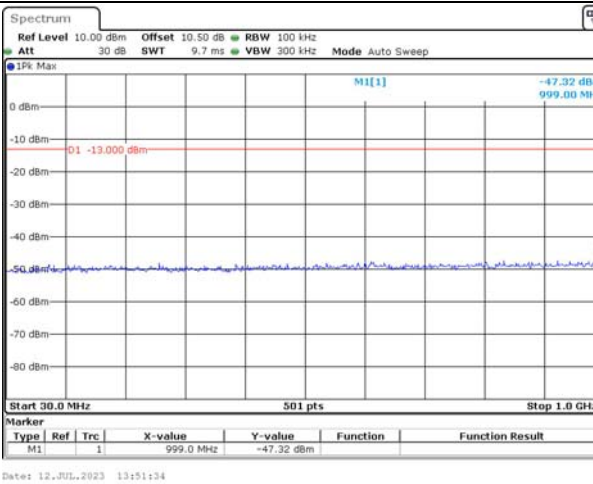
Channel

3MHz Bandwidth QPSK

Lowest



Middle



Highest

