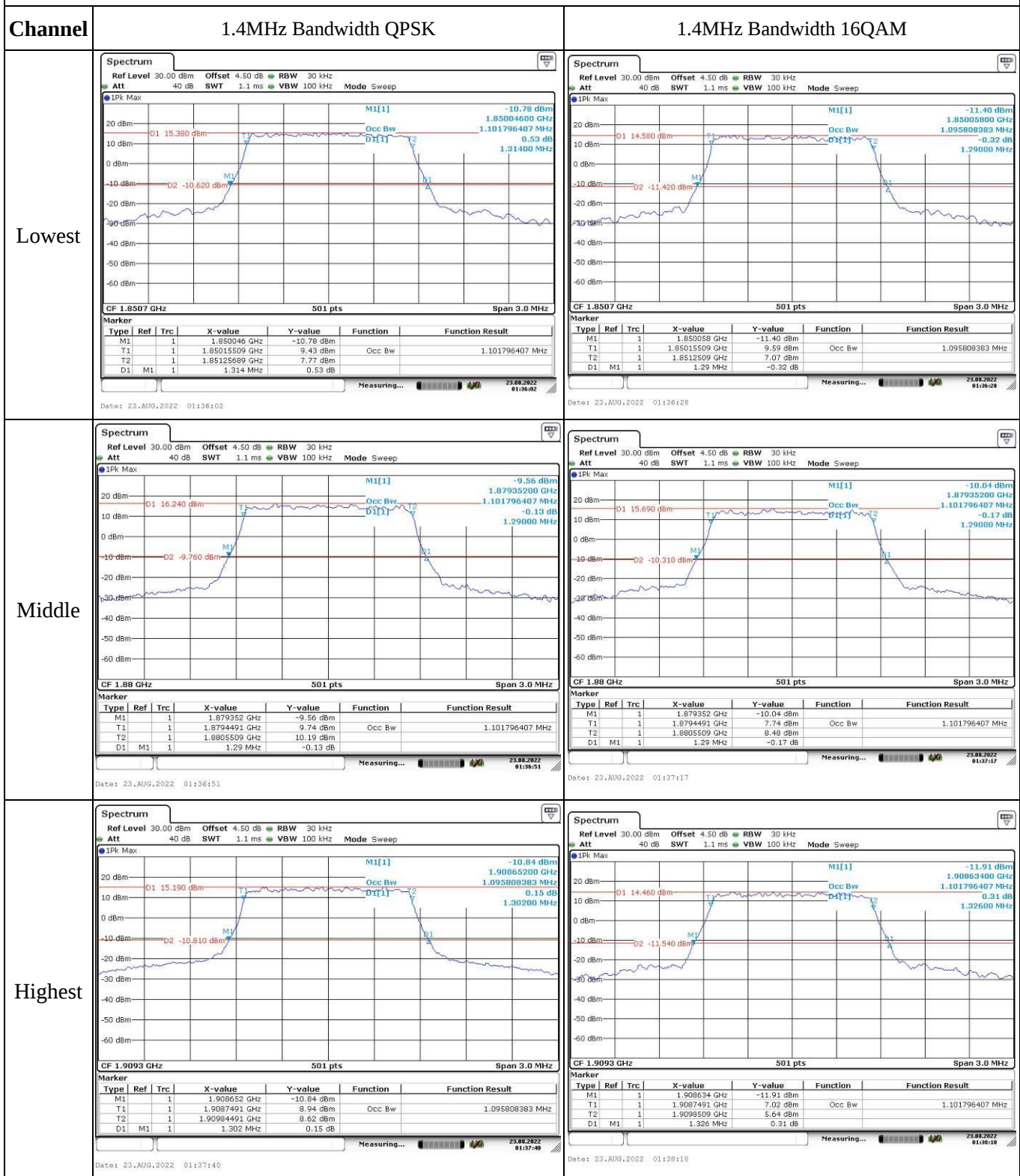


Test Plots:

Occupied Bandwidth



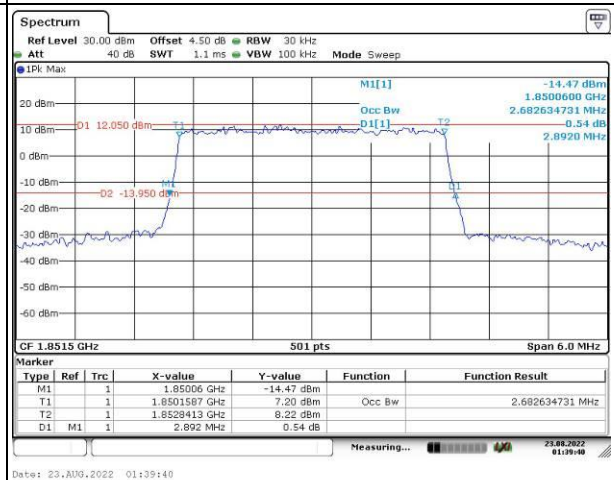
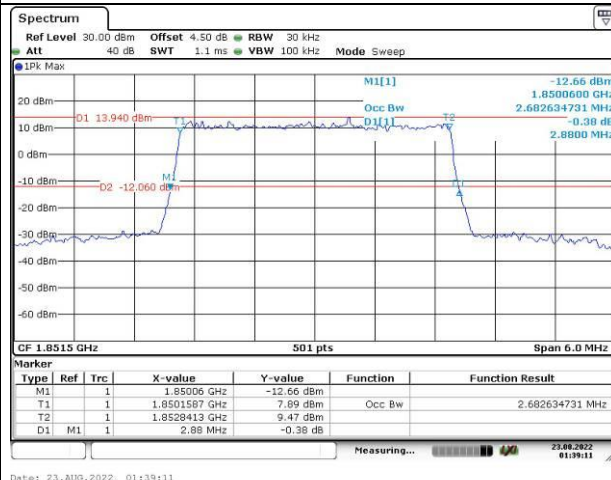
Occupied Bandwidth

Channel

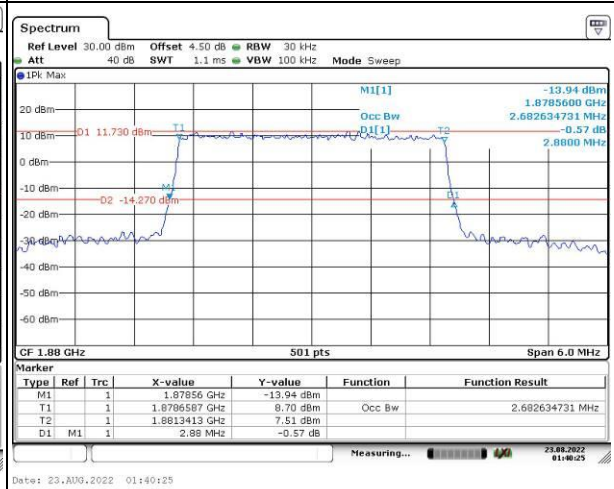
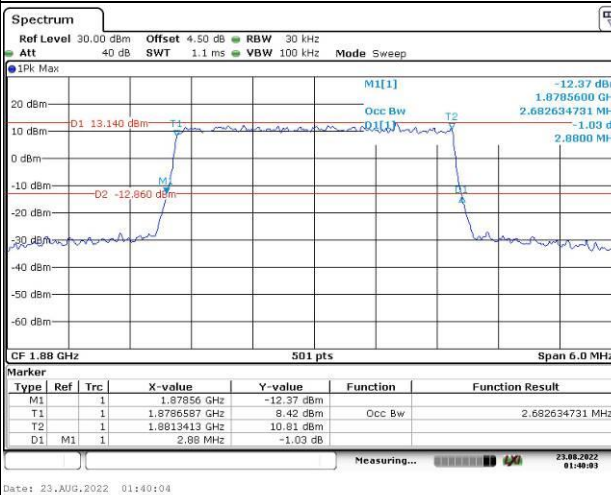
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

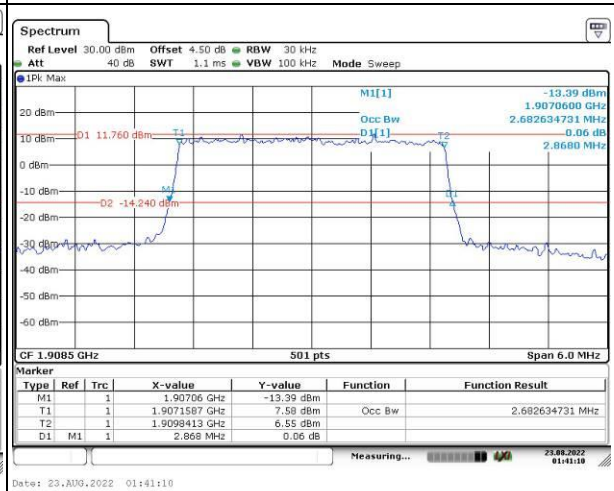
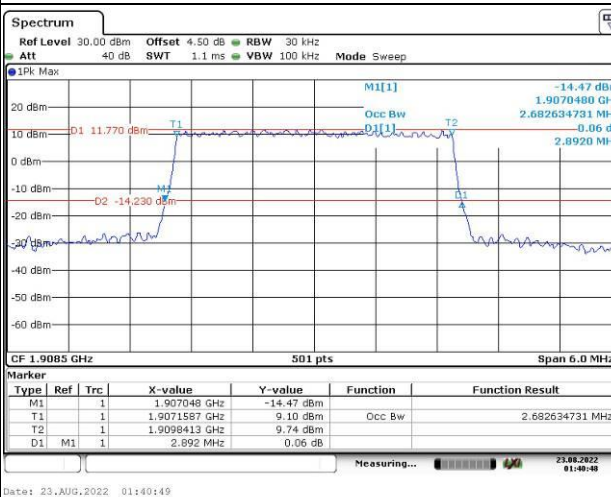
Lowest



Middle



Highest



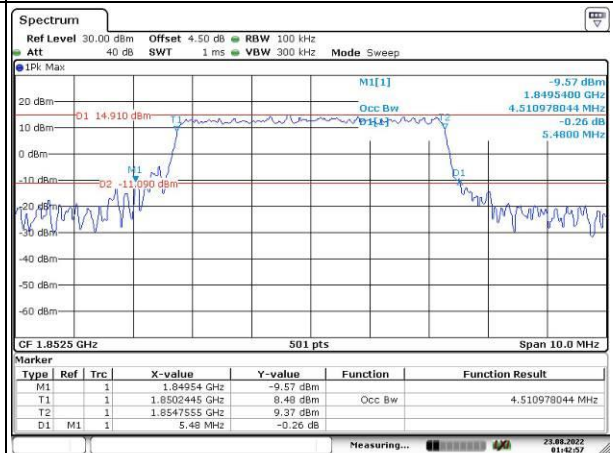
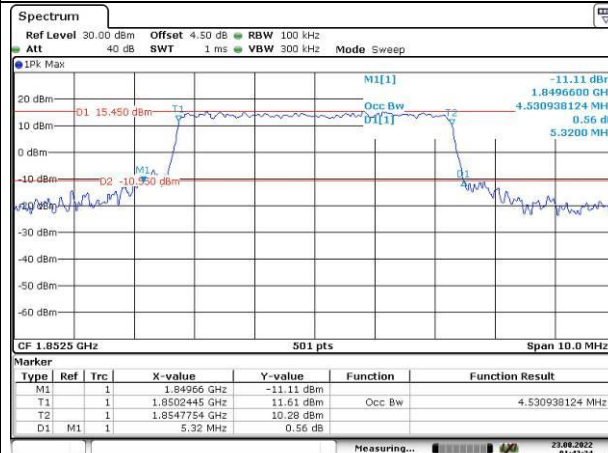
Occupied Bandwidth

Channel

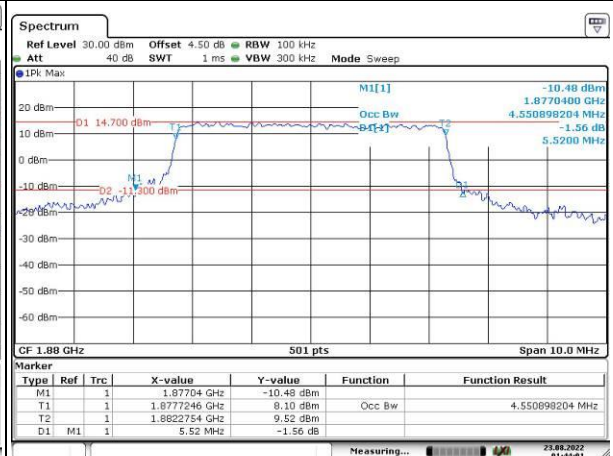
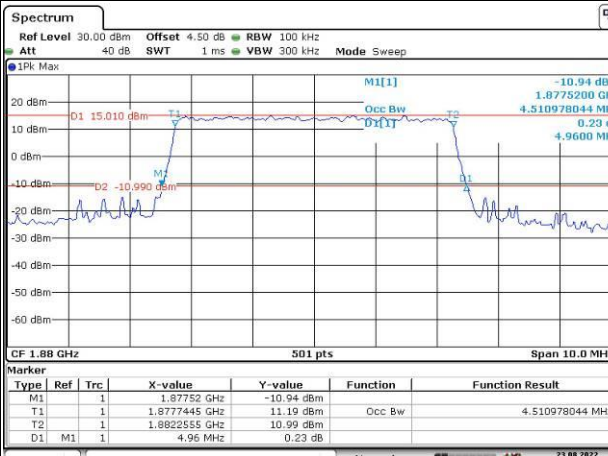
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

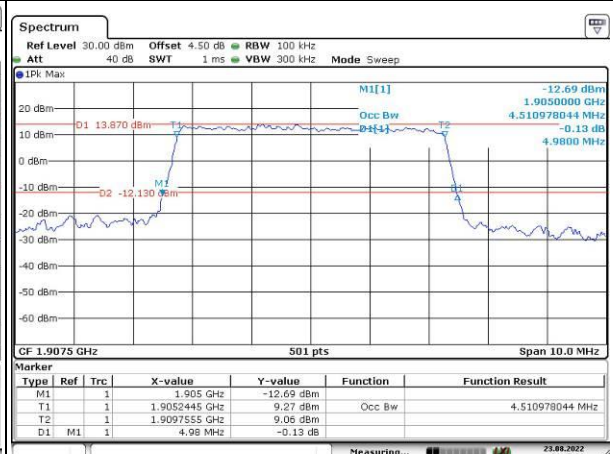
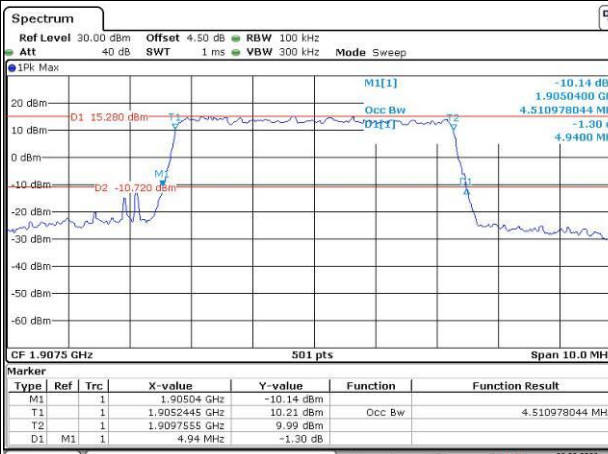
Lowest



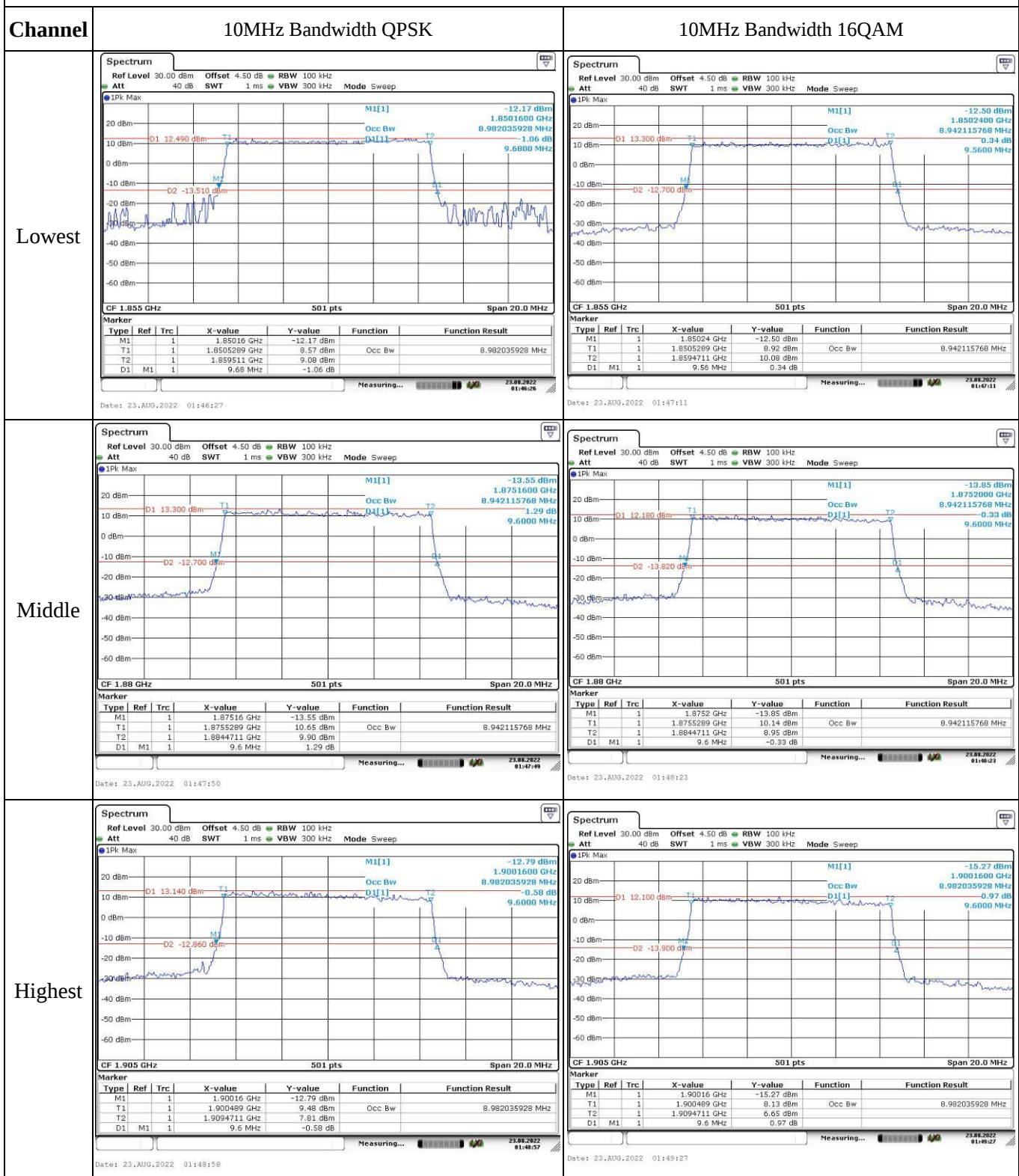
Middle



Highest



Occupied Bandwidth



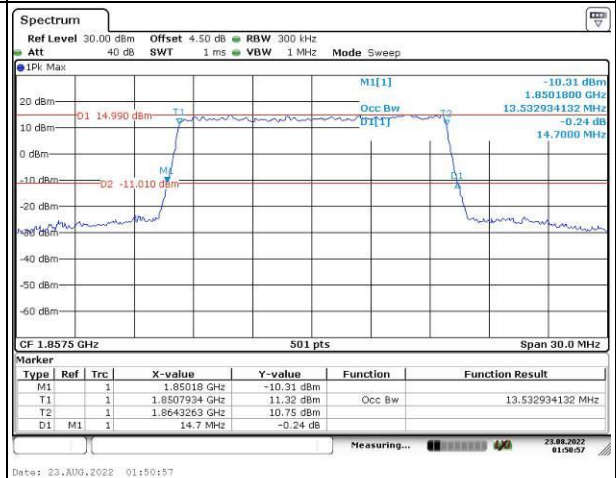
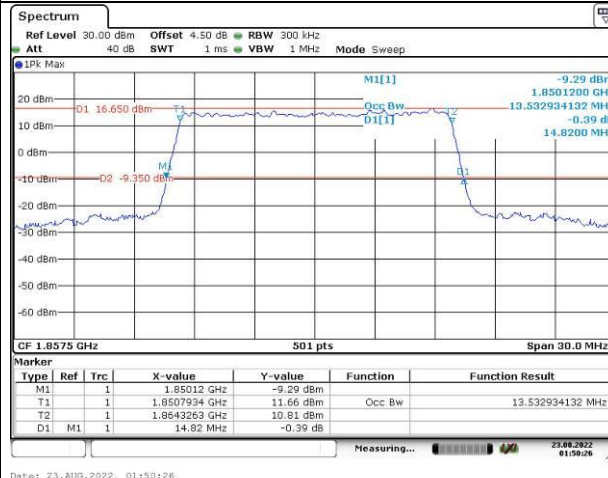
Occupied Bandwidth

Channel

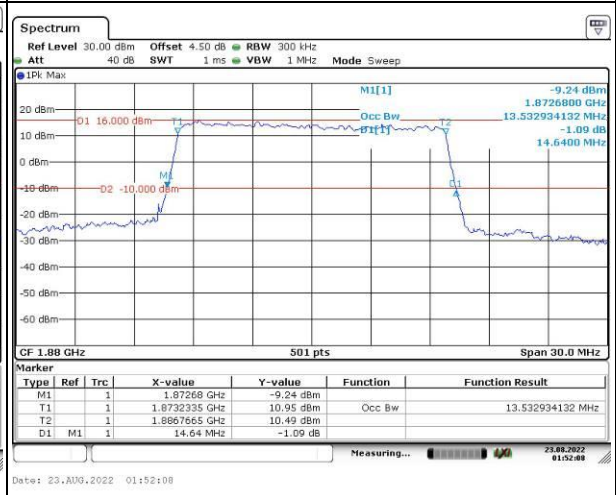
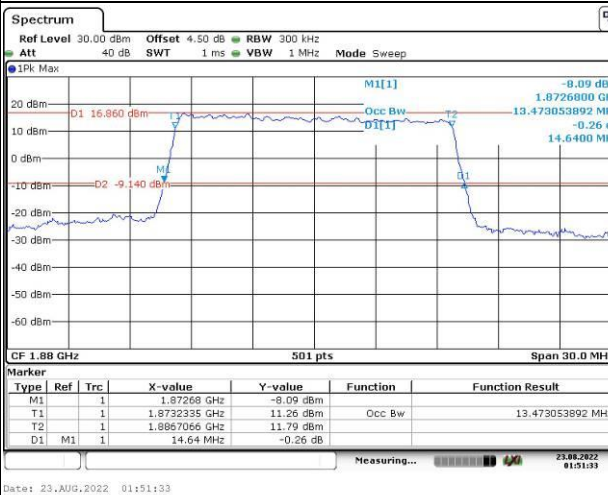
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

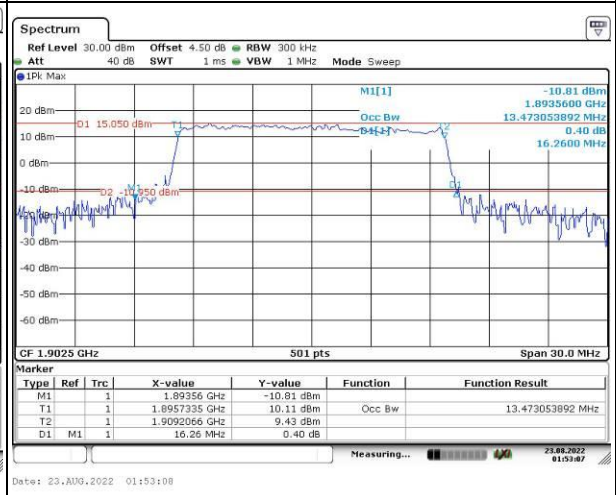
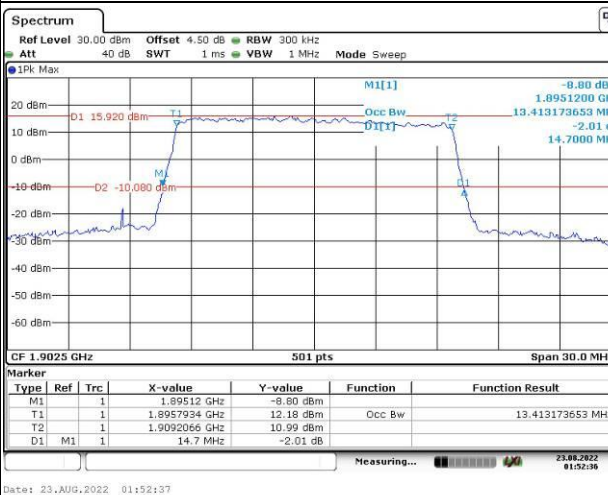
Lowest



Middle



Highest



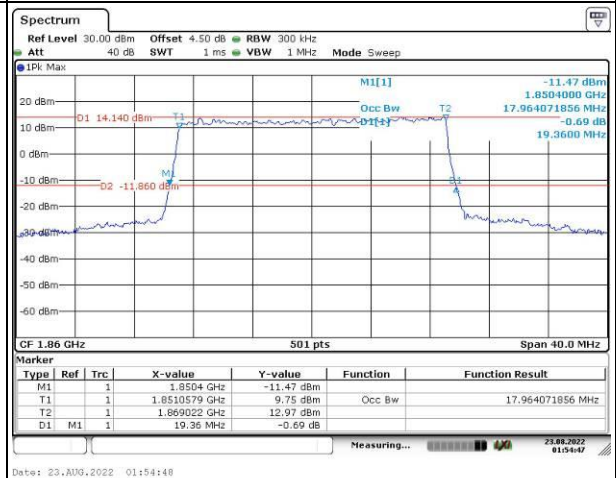
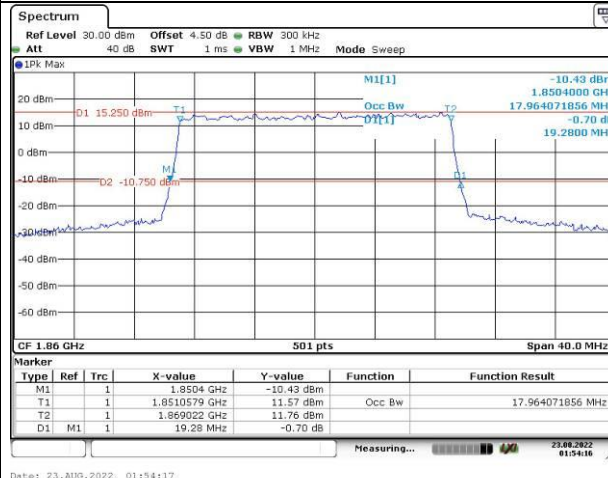
Occupied Bandwidth

Channel

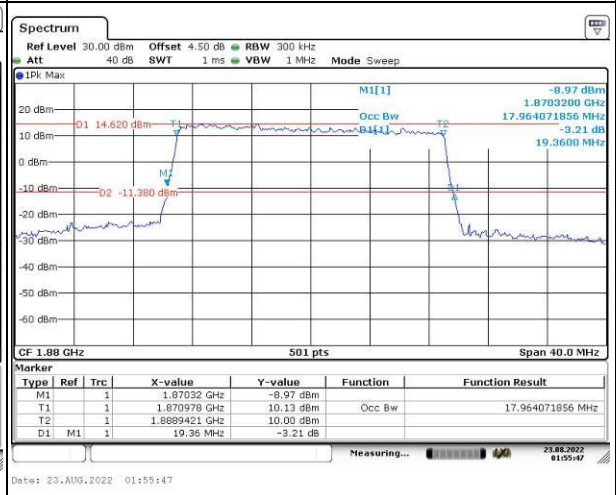
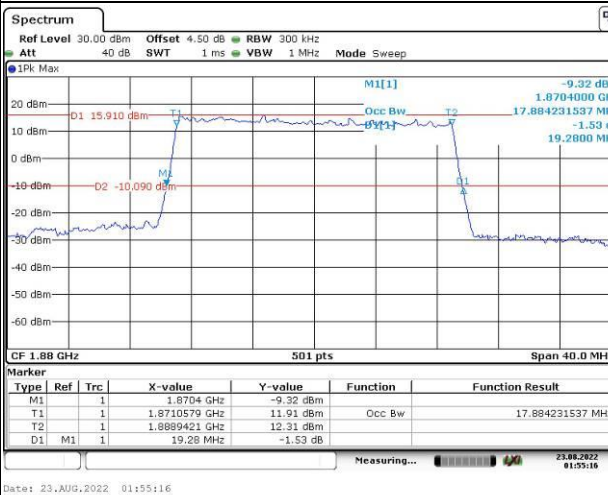
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

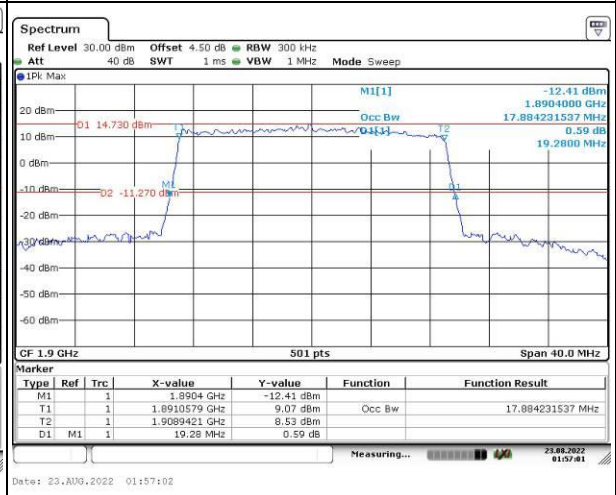
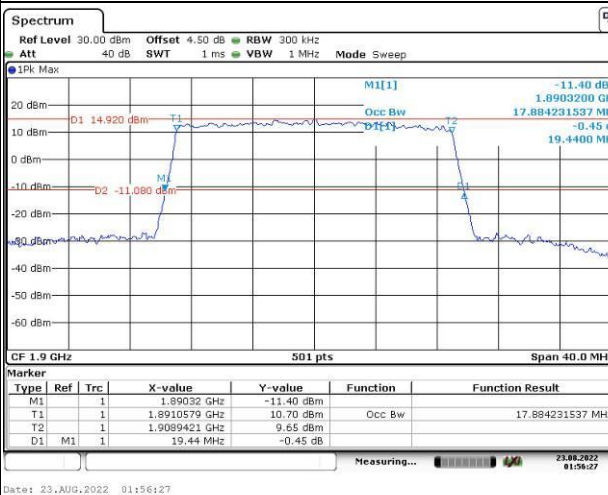
Lowest



Middle



Highest

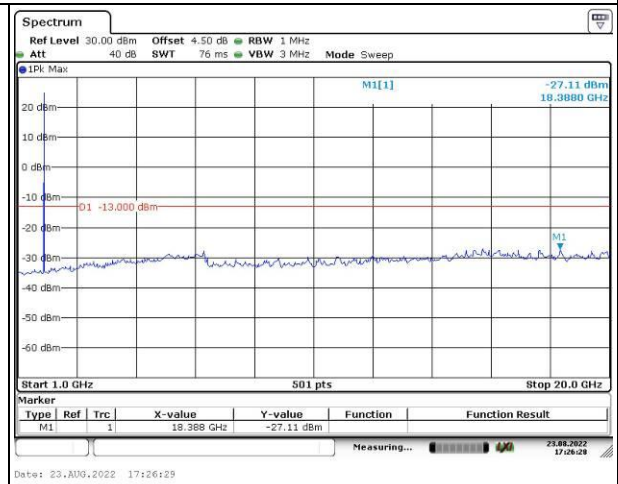
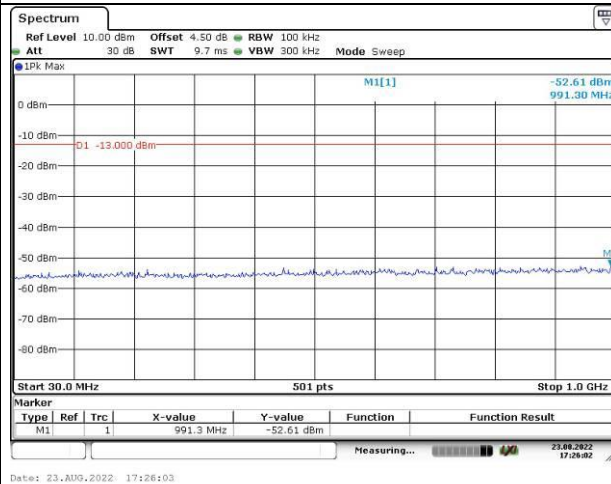


Spurious Emissions at Antenna Terminal

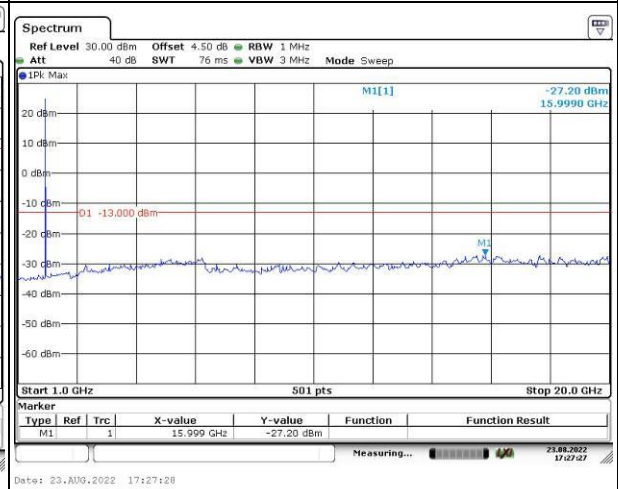
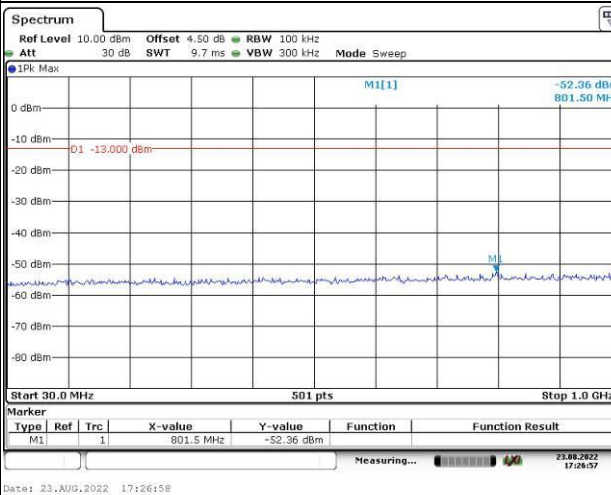
Channel

1.4MHz Bandwidth QPSK

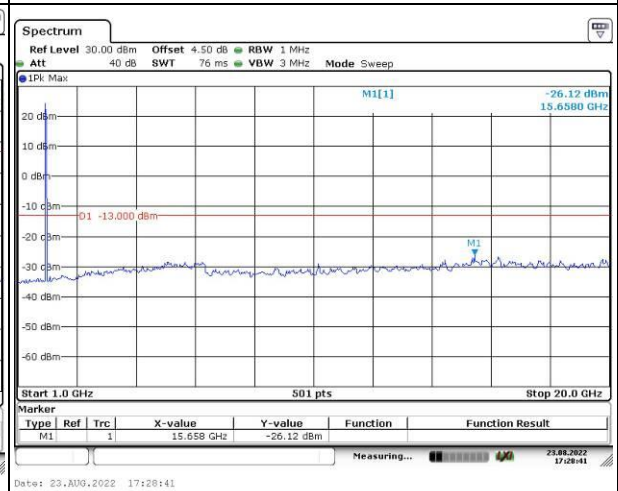
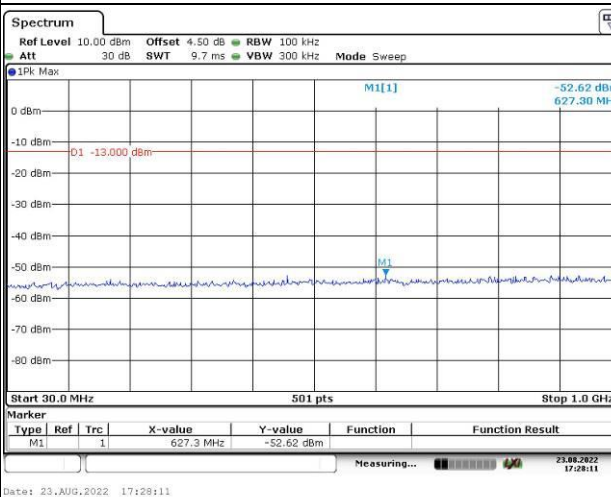
Lowest



Middle



Highest

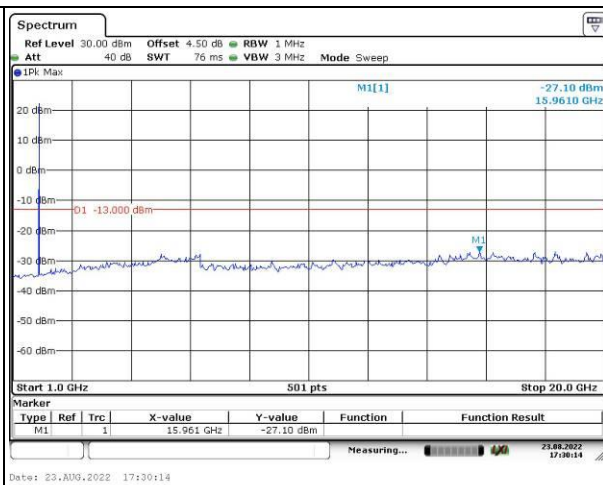
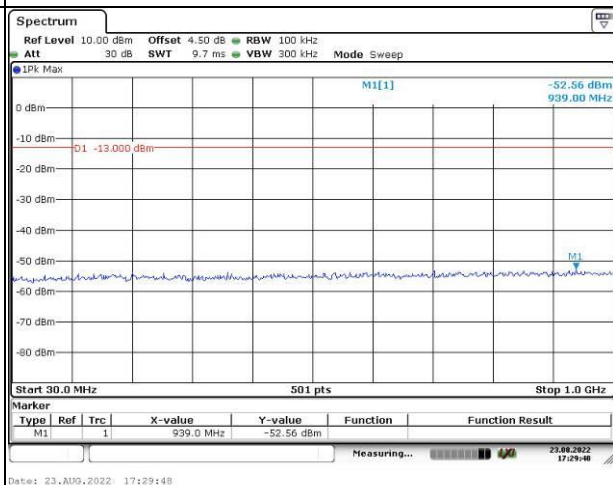


Spurious Emissions at Antenna Terminal

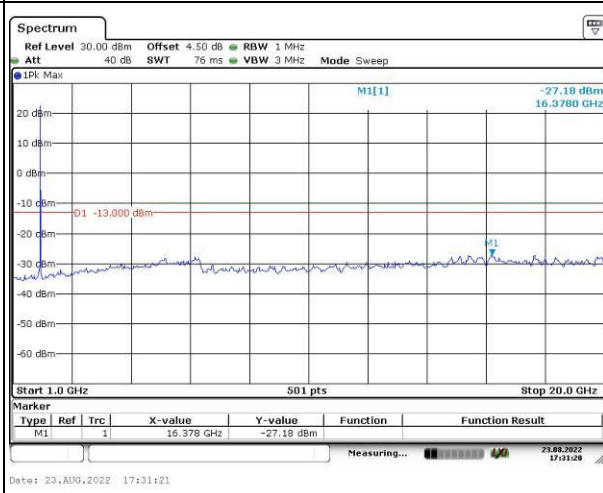
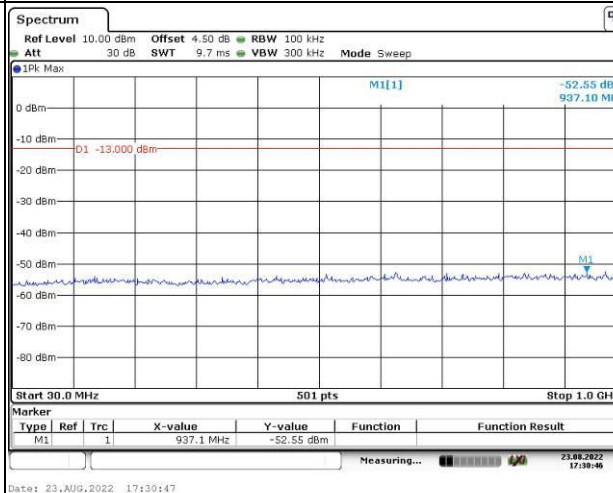
Channel

3MHz Bandwidth QPSK

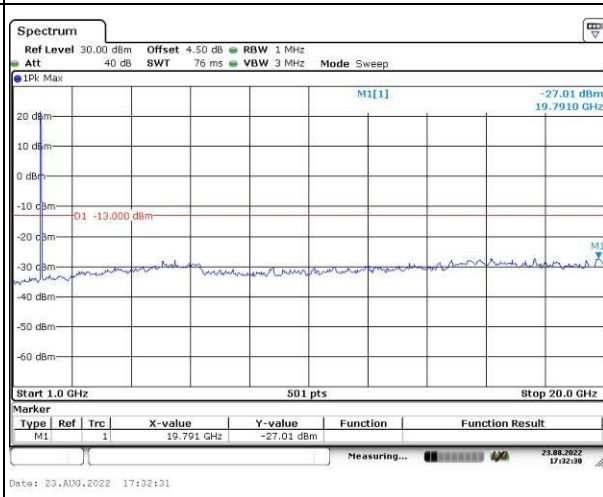
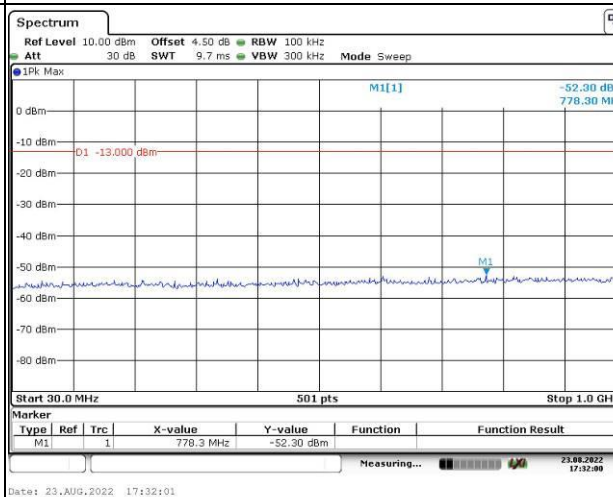
Lowest



Middle



Highest

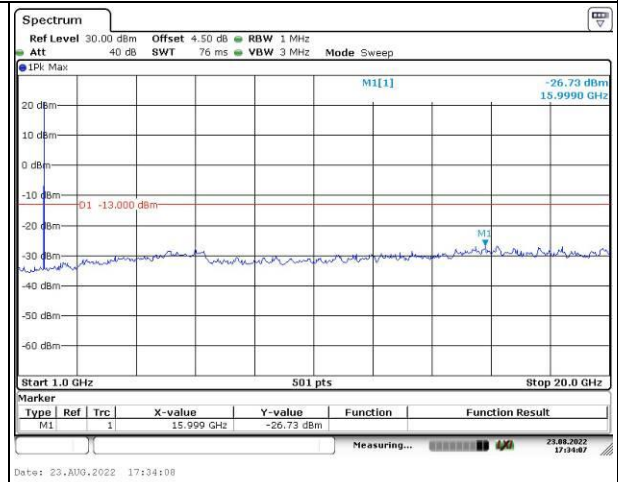
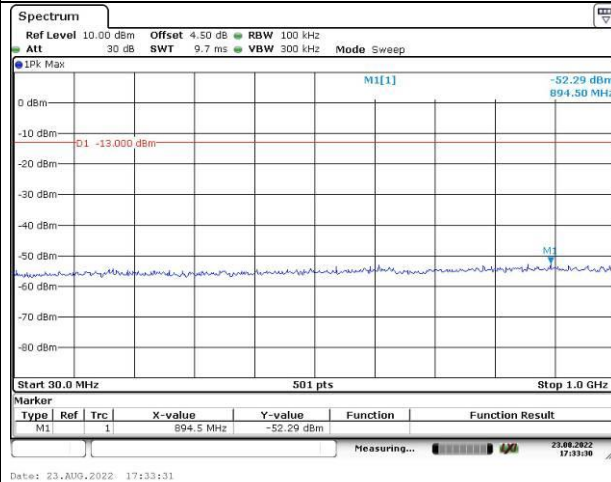


Spurious Emissions at Antenna Terminal

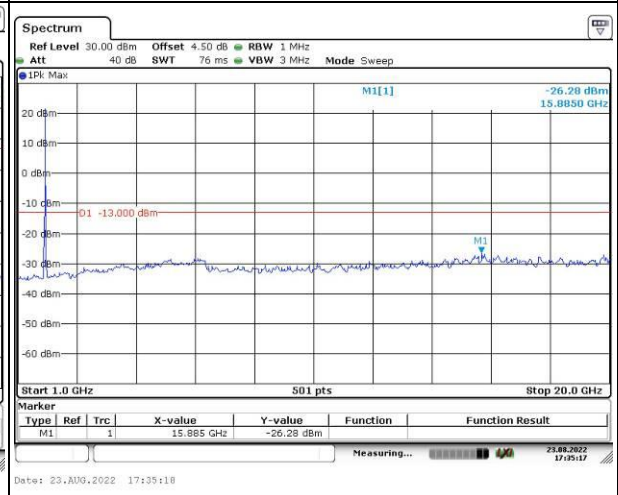
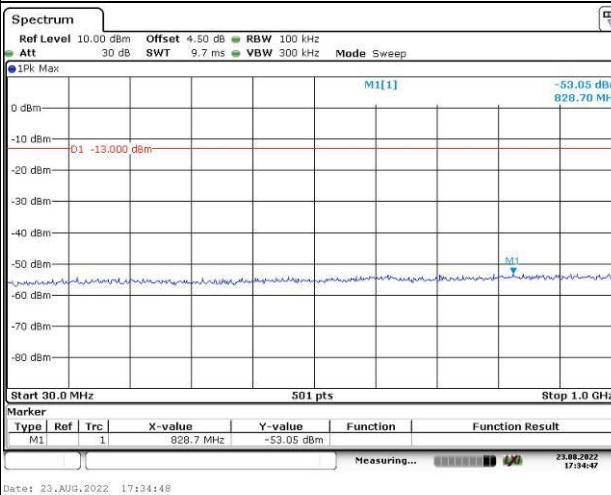
Channel

5MHz Bandwidth QPSK

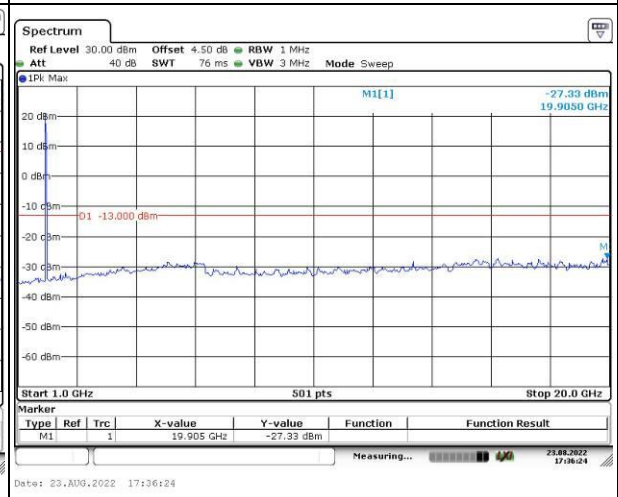
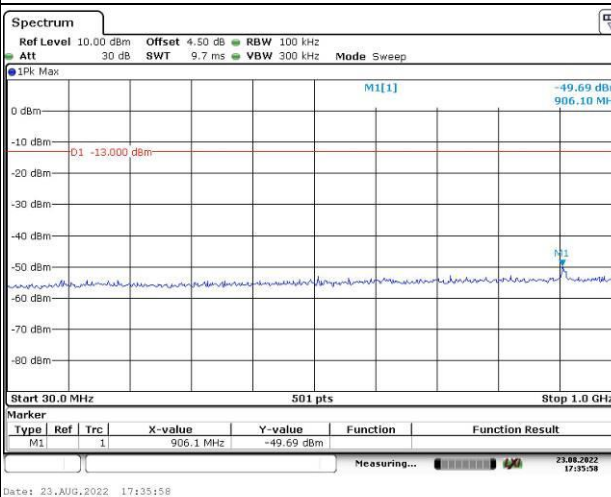
Lowest



Middle



Highest

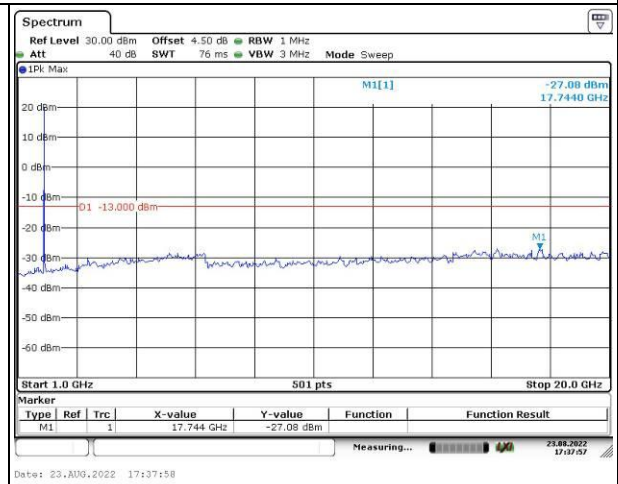
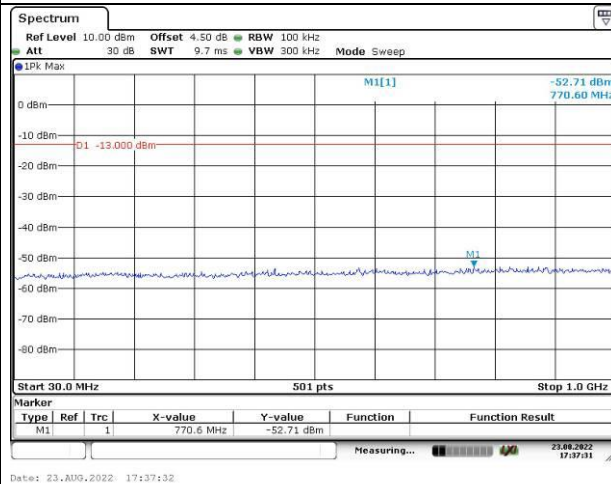


Spurious Emissions at Antenna Terminal

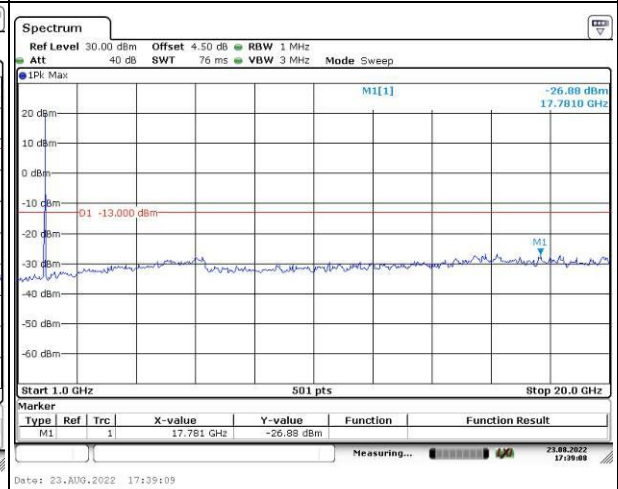
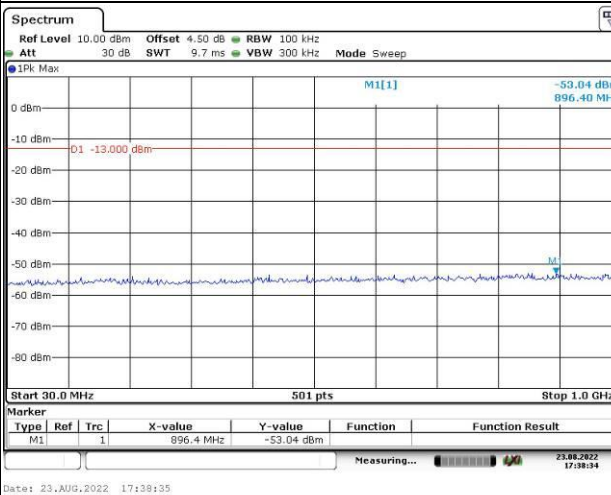
Channel

10MHz Bandwidth QPSK

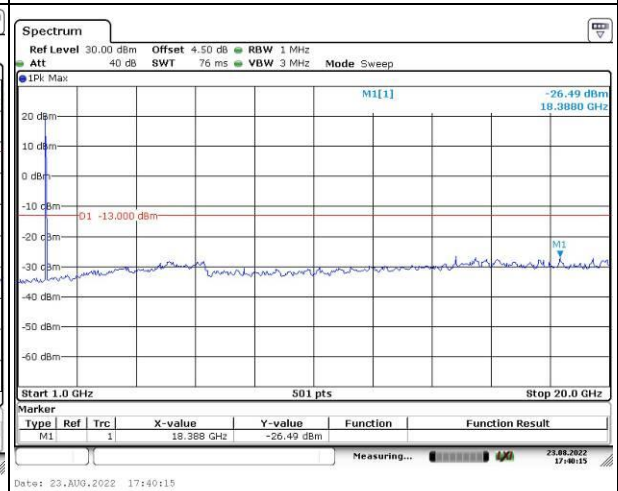
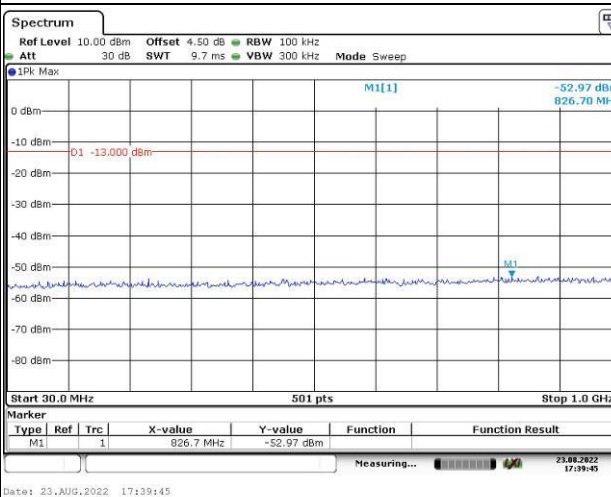
Lowest



Middle



Highest

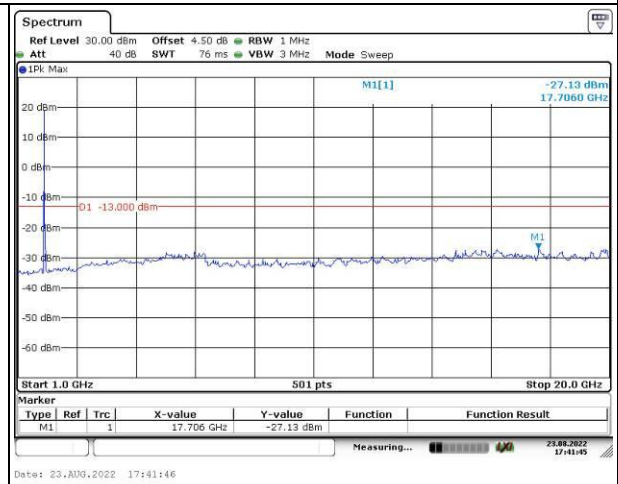
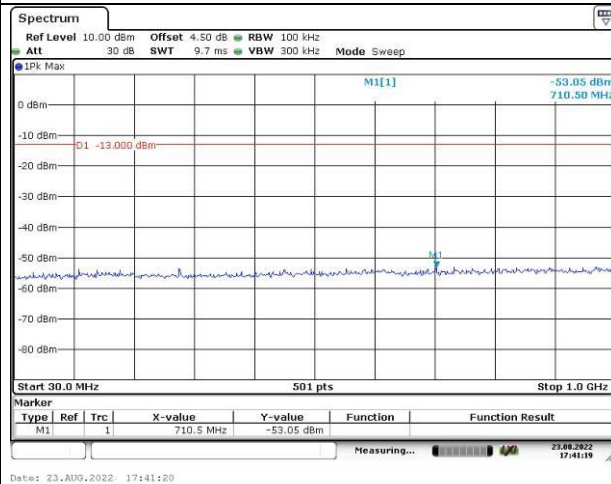


Spurious Emissions at Antenna Terminal

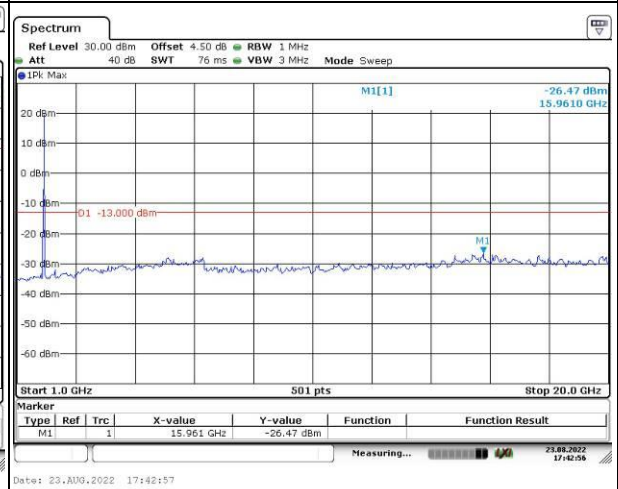
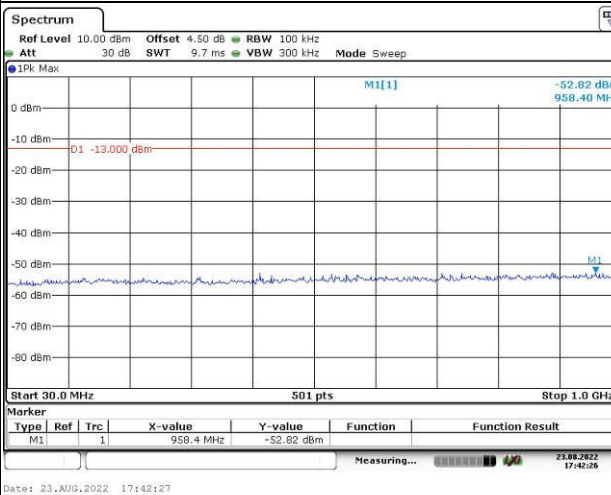
Channel

15MHz Bandwidth QPSK

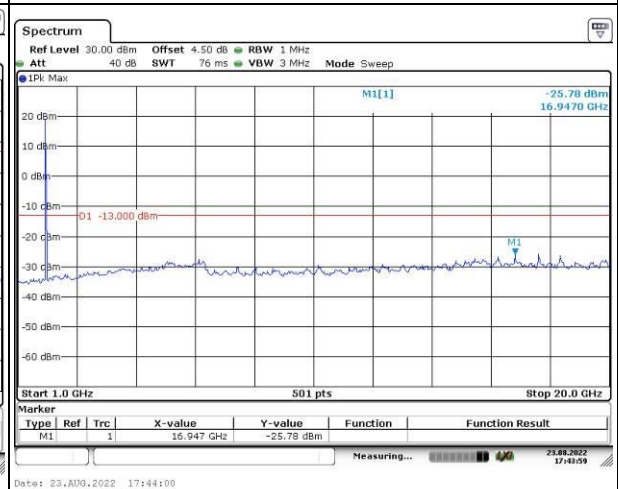
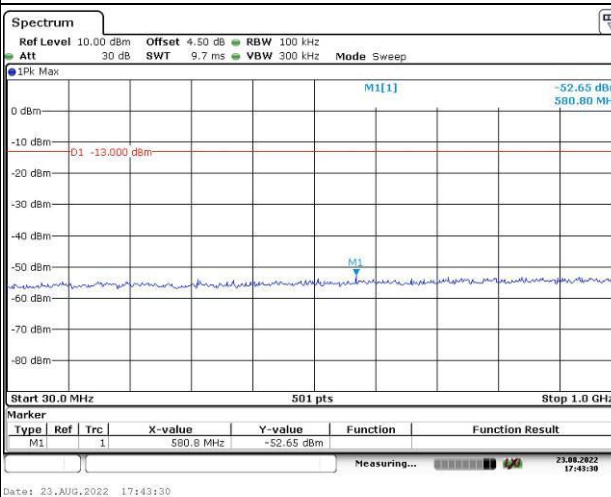
Lowest



Middle



Highest

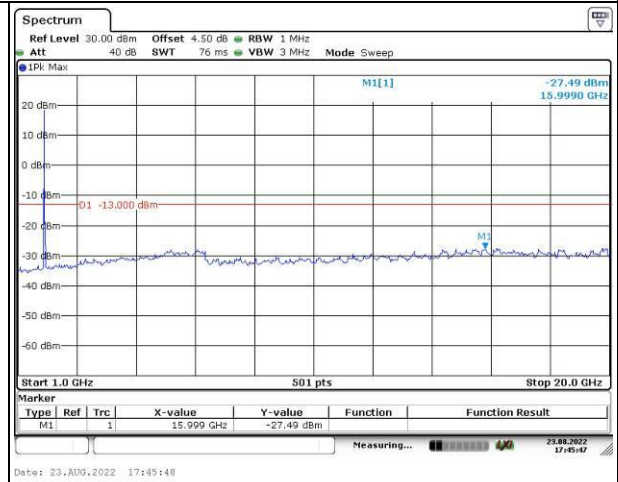
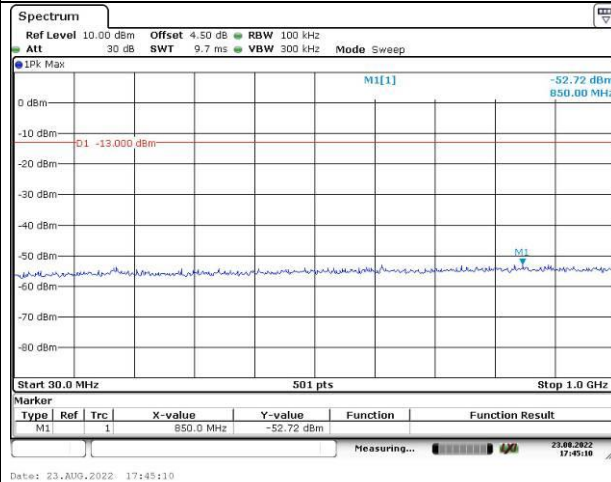


Spurious Emissions at Antenna Terminal

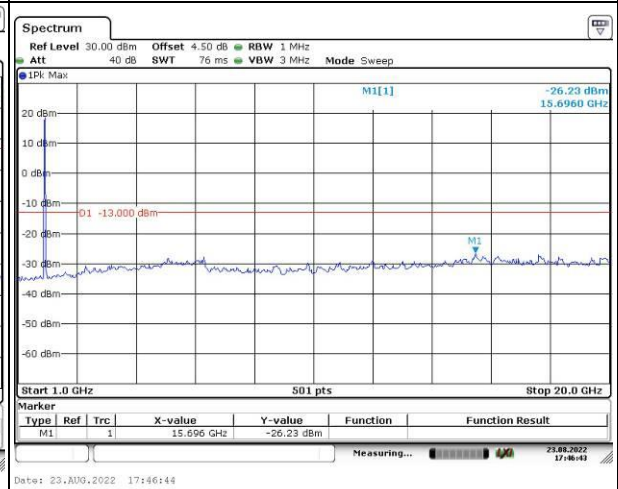
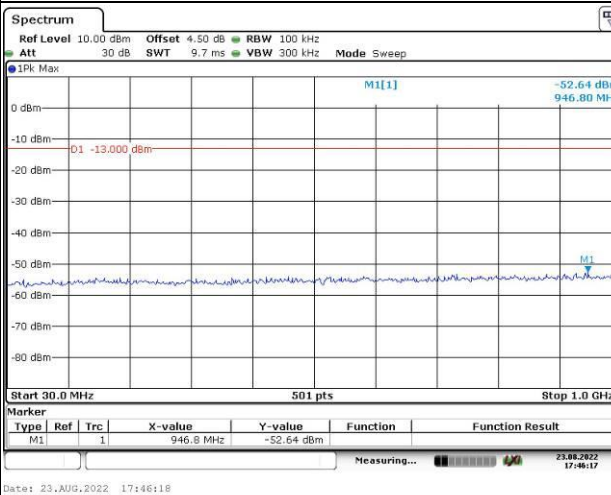
Channel

20MHz Bandwidth QPSK

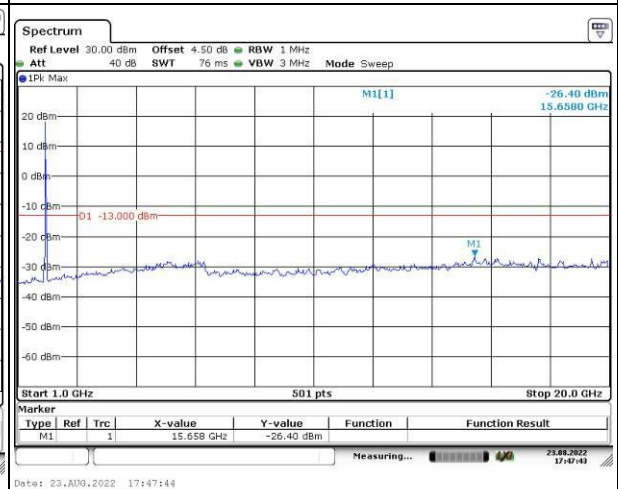
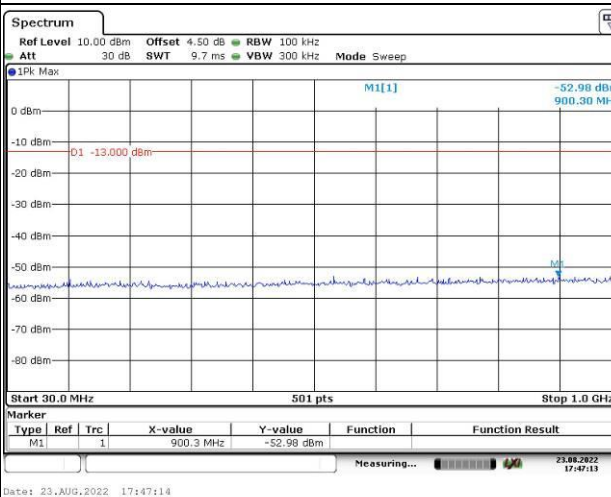
Lowest



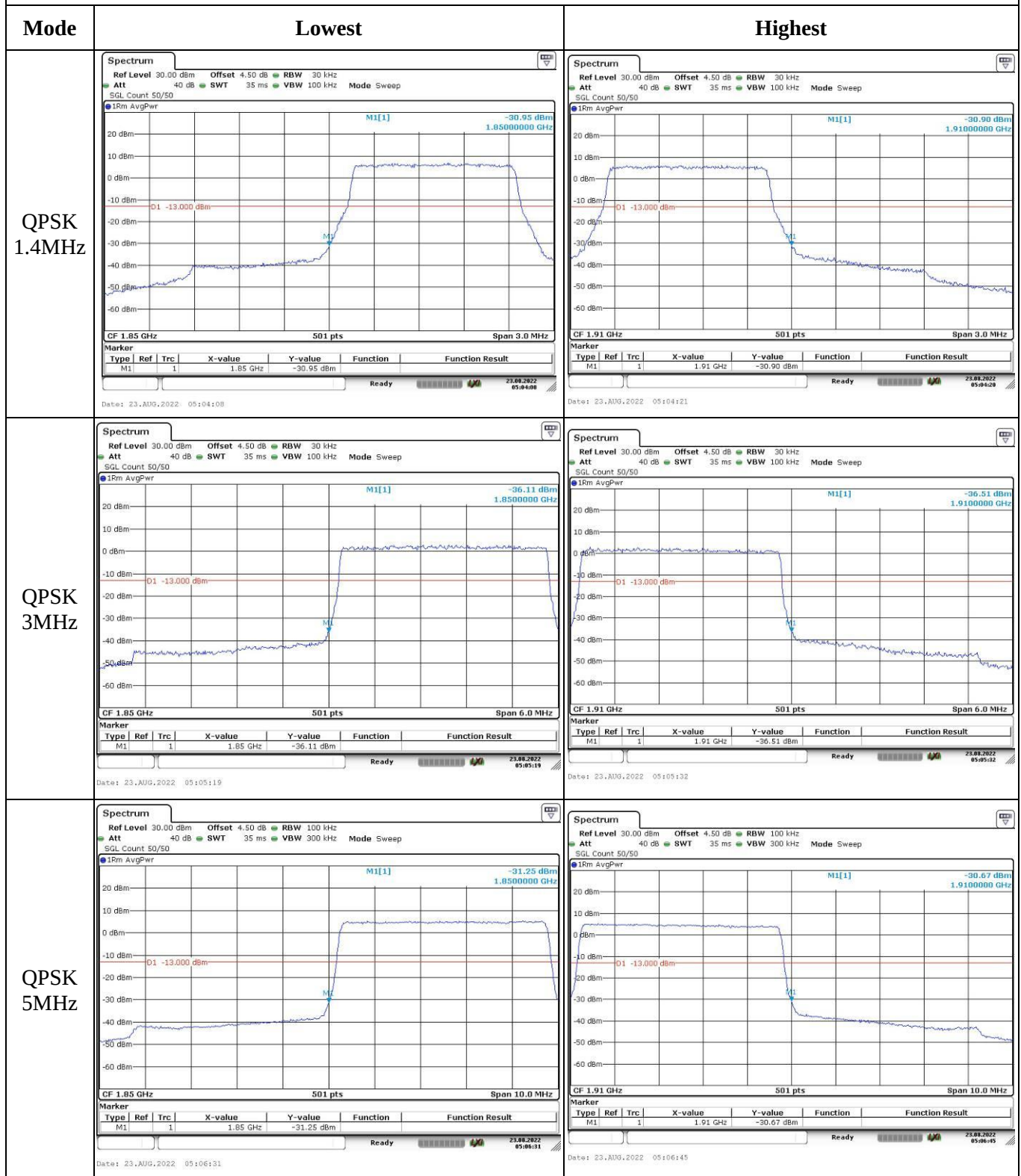
Middle



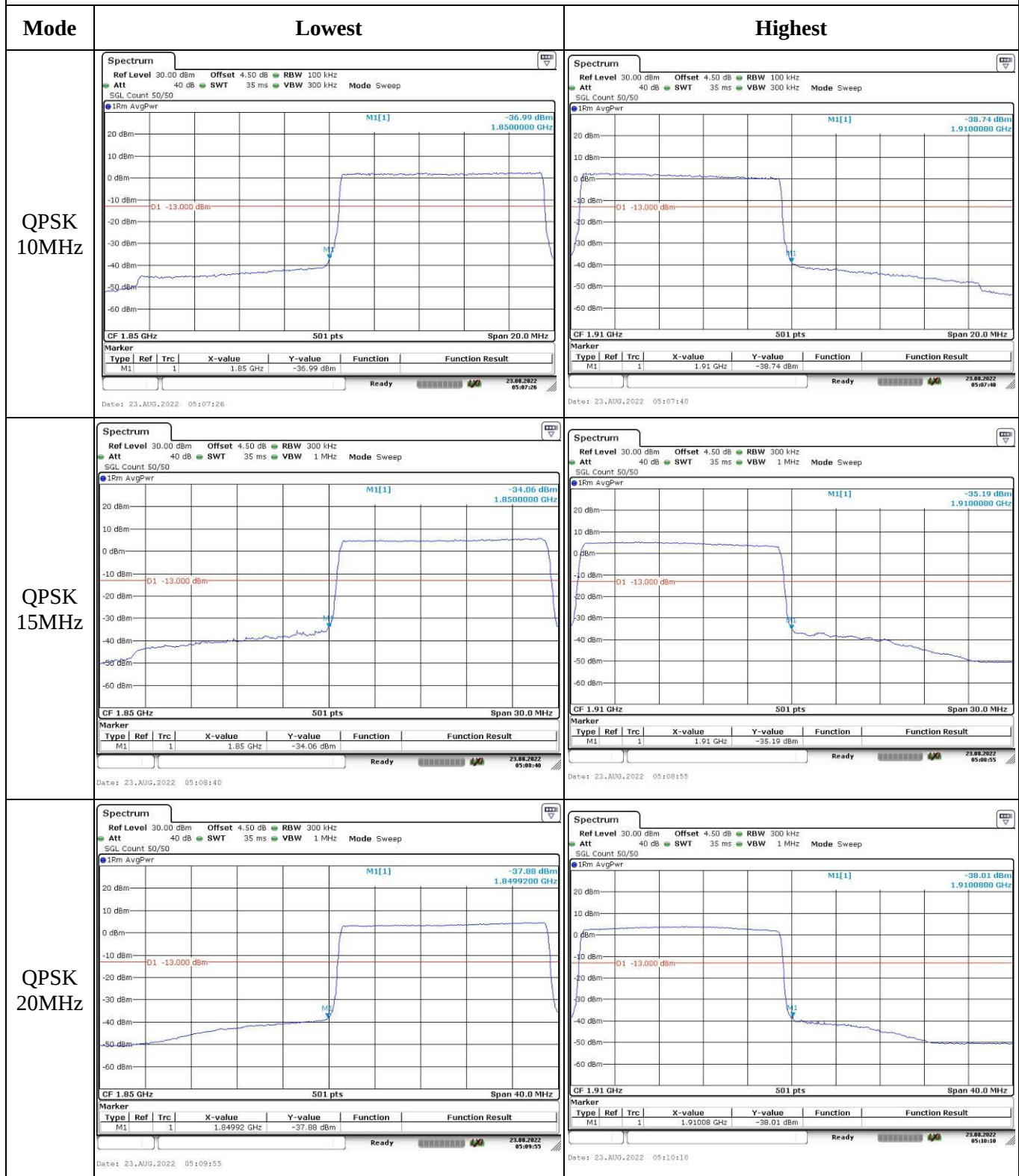
Highest



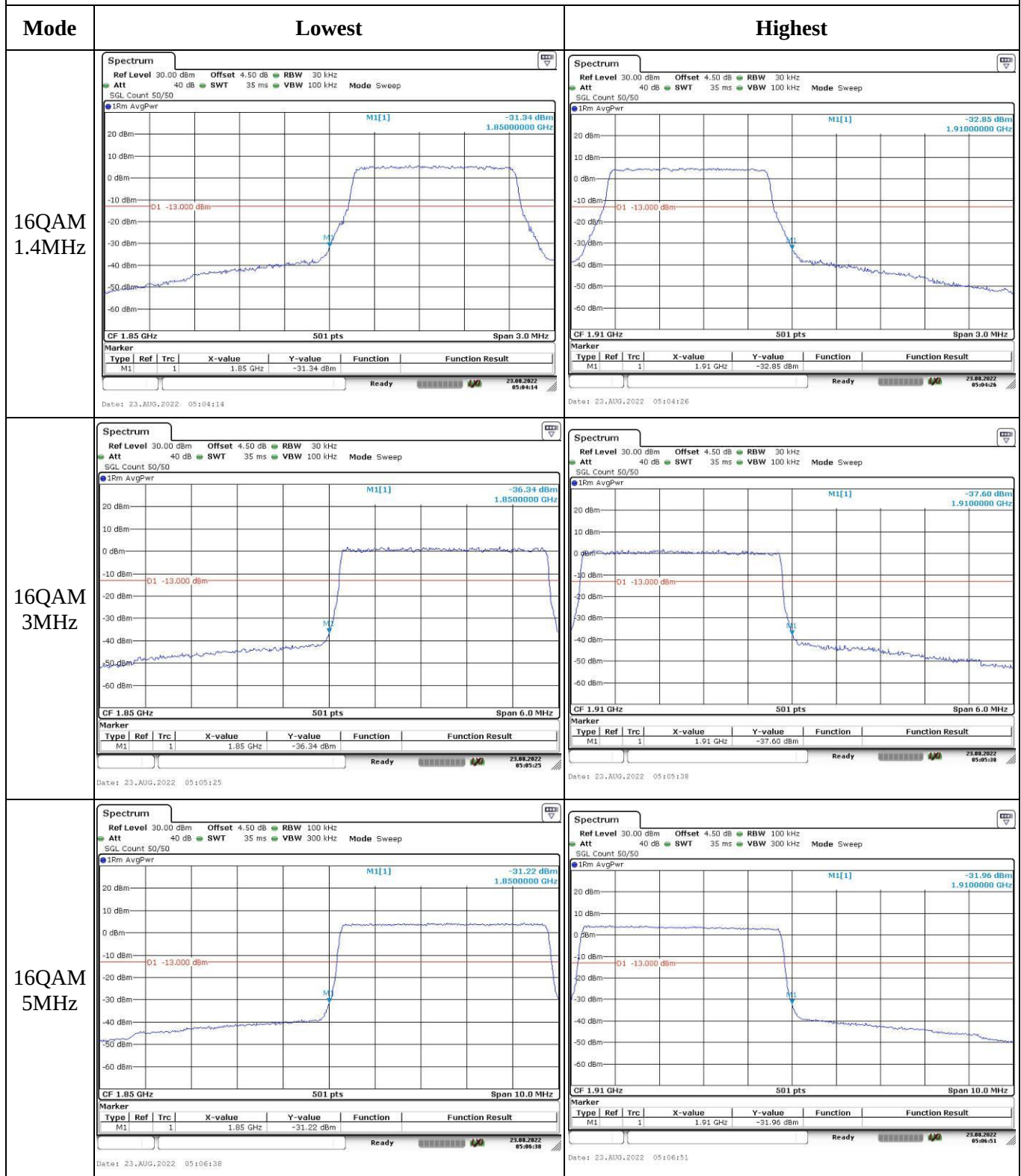
Out of band emission, Band Edge



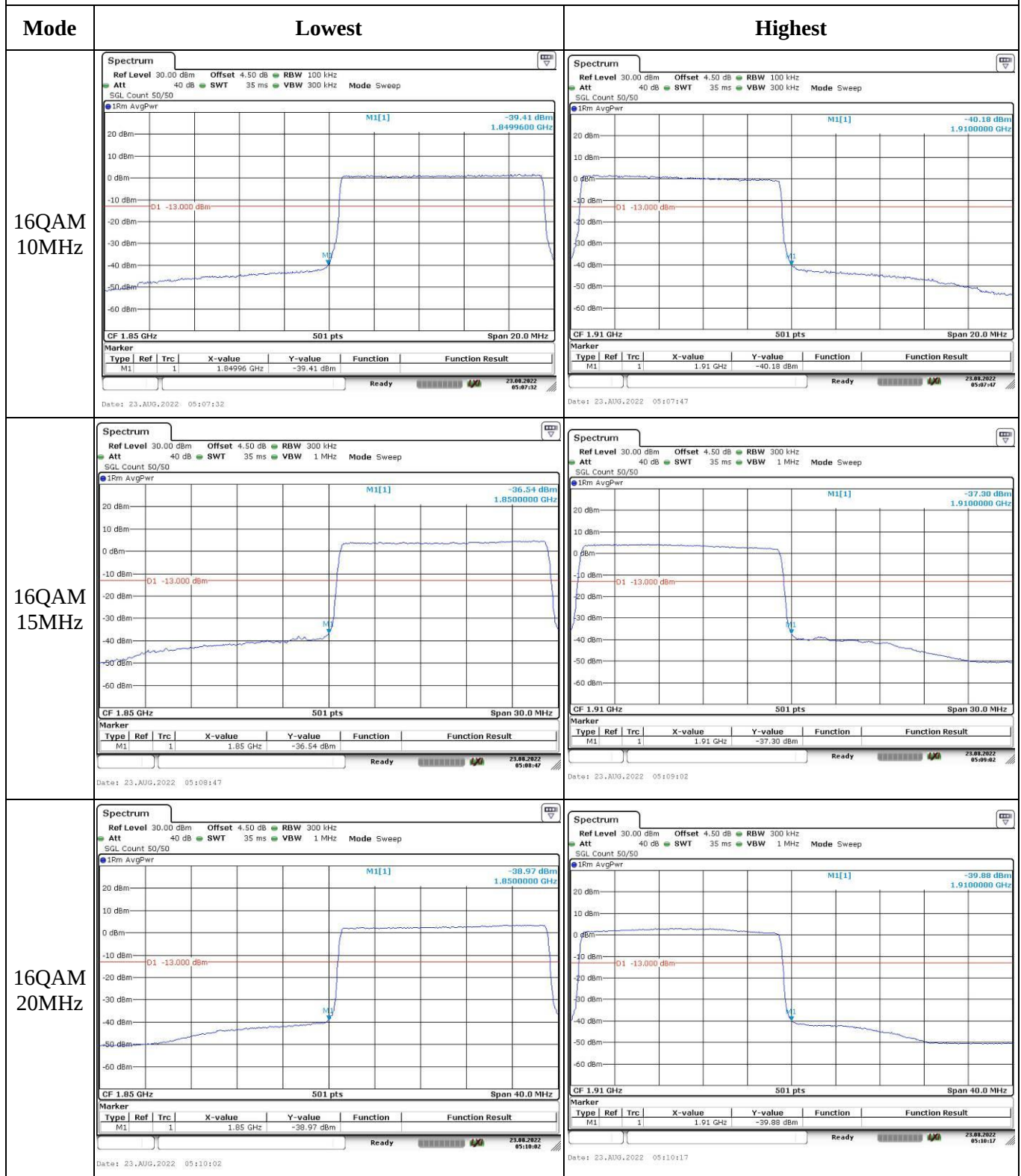
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.6 Antenna Port Test Data and Results for LTE Band 4

Serial Number:	CR22070052-RF-S1	Test Date:	2022-08-23~2022-08-25
Test Site:	RF	Test Mode:	Transmitting
Tester:	George Chen	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.3~25.8	Relative Humidity: (%)	51~59	ATM Pressure: (kPa)	100.2~100.8
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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	2022-07-15	2023-07-14
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100003	Each time	N/A
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022-07-15	2023-07-14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022-04-06	2023-04-05
UNI-T	Multimeter	UT39A+	C210582554	2021-09-30	2022-09-29
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).

EUT Information@ LTE Band 4▲:

Antenna Gain (dBi):	-0.17	Path Loss L _C (dB):	0.3
Operation Voltage(V _{DC}):			
Lowest:	3.5	Normal:	3.85
		Highest:	4.4

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:**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	22.46	22.23	22.12	22.12	30
	RB1#3	22.59	22.44	22.26		
	RB1#5	22.06	22.24	22.09		
	RB3#0	22.06	22.27	22.15		
	RB3#3	22.07	22.31	22.11		
	RB6#0	21.23	21.31	21.21		
1.4MHz 16QAM	RB1#0	21.07	21.19	21.04	20.99	30
	RB1#3	21.26	21.46	21.21		
	RB1#5	21.08	21.24	21.07		
	RB3#0	21.08	21.39	21.3		
	RB3#3	21.05	21.36	21.26		
	RB6#0	20.52	20.24	20.13		
3MHz QPSK	RB1#0	22.5	22.3	22.19	22.05	30
	RB1#8	22.52	22.28	22.17		
	RB1#14	22.49	22.19	22.19		
	RB6#0	21.48	21.3	21.14		
	RB6#9	21.47	21.26	21.18		
	RB15#0	21.51	21.32	21.18		
3MHz 16QAM	RB1#0	22.07	21.43	21.18	21.6	30
	RB1#8	22.05	21.45	21.16		
	RB1#14	22.02	21.39	21.11		
	RB6#0	20.58	20.25	20.05		
	RB6#9	20.54	20.31	20.02		
	RB15#0	20.57	20.25	20.2		
5MHz QPSK	RB1#0	22.42	22.17	22.05	21.99	30
	RB1#13	22.46	22.29	22.18		
	RB1#24	22.41	22.15	22.08		
	RB15#0	21.47	21.36	21.15		
	RB15#10	21.58	21.25	21.23		
	RB25#0	21.51	21.25	21.14		
5MHz 16QAM	RB1#0	21.48	21.06	21.41	21.12	30
	RB1#13	21.59	21.18	21.46		
	RB1#24	21.45	21.03	21.31		
	RB15#0	20.52	20.4	20.13		
	RB15#10	20.6	20.28	20.2		
	RB25#0	20.52	20.34	20.16		
10MHz QPSK	RB1#0	22.46	22.3	22.12	22.13	30

	RB1#25	22.6	22.43	22.3		
	RB1#49	22.4	22.16	22.18		
	RB25#0	21.41	21.42	21.17		
	RB25#25	21.63	21.24	21.28		
	RB50#0	21.55	21.34	21.23		
10MHz 16QAM	RB1#0	22.01	21.41	21.19	21.66	30
	RB1#25	22.13	21.58	21.37		
	RB1#49	21.95	21.39	21.09		
	RB25#0	20.48	20.44	20.27		
	RB25#25	20.65	20.28	20.36		
	RB50#0	20.57	20.36	20.29		
15MHz QPSK	RB1#0	22.42	22.29	22.08	22.01	30
	RB1#38	22.48	22.25	22.2		
	RB1#74	22.36	22.14	22.04		
	RB36#0	21.47	21.56	21.27		
	RB36#39	21.65	21.32	21.35		
	RB75#0	21.54	21.41	21.33		
15MHz 16QAM	RB1#0	21.77	21.69	21.25	21.34	30
	RB1#38	21.81	21.8	21.37		
	RB1#74	21.57	21.73	21.2		
	RB36#0	20.41	20.45	20.23		
	RB36#39	20.5	20.3	20.31		
	RB75#0	20.52	20.41	20.32		
20MHz QPSK	RB1#0	22.19	22.13	21.9	22.07	30
	RB1#50	22.54	22.45	22.36		
	RB1#99	22.03	21.93	21.89		
	RB50#0	21.22	21.45	21.25		
	RB50#50	21.36	21.19	21.37		
	RB100#0	21.32	21.34	21.32		
20MHz 16QAM	RB1#0	21.77	21.33	21.19	21.58	30
	RB1#50	22.05	21.68	21.59		
	RB1#99	21.58	21.25	21.08		
	RB50#0	20.2	20.38	20.3		
	RB50#50	20.39	20.16	20.44		
	RB100#0	20.36	20.36	20.35		
Note: EIRP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(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	4.78	3.59	5.33	13
	RB100#0	4.96	4.7	5.07	13
20MHz 16QAM	RB1#0	5.74	4.46	6.26	13
	RB100#0	6.03	5.65	6	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	1.102	1.102	1.102	1.314	1.29	1.308
1.4MHz 16QAM	1.096	1.102	1.102	1.29	1.29	1.32
3MHz QPSK	2.683	2.695	2.683	2.868	2.88	2.88
3MHz 16QAM	2.671	2.683	2.683	2.88	2.88	2.88
5MHz QPSK	4.491	4.511	4.511	4.94	4.94	4.94
5MHz 16QAM	4.511	4.511	4.531	4.94	4.9	4.96
10MHz QPSK	8.982	8.982	8.942	9.64	9.64	9.56
10MHz 16QAM	8.982	8.942	8.982	9.68	9.6	9.64
15MHz QPSK	13.473	13.533	13.473	14.76	14.76	14.82
15MHz 16QAM	13.533	13.533	13.533	14.64	14.64	15.48
20MHz QPSK	17.884	17.964	17.964	19.44	19.28	19.28
20MHz 16QAM	17.884	17.964	17.964	19.28	19.2	19.36
Note: The test plots please refer to the Plots of Occupied Bandwidth						