

### Occupied Bandwidth

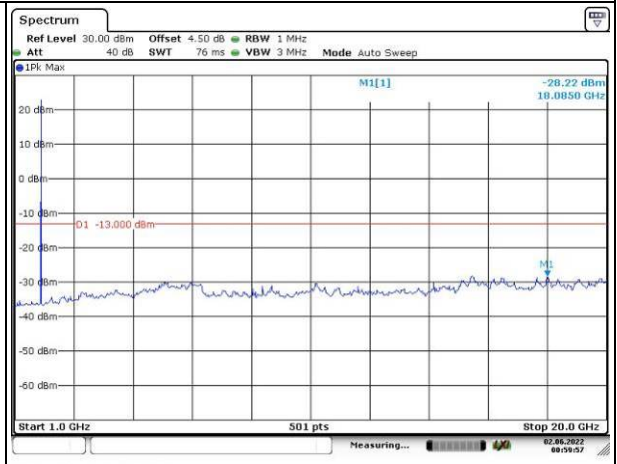
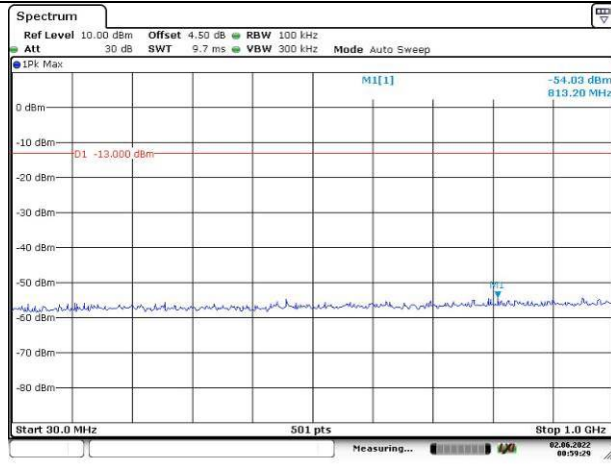
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM																																																																						
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### Spurious Emissions at Antenna Terminal

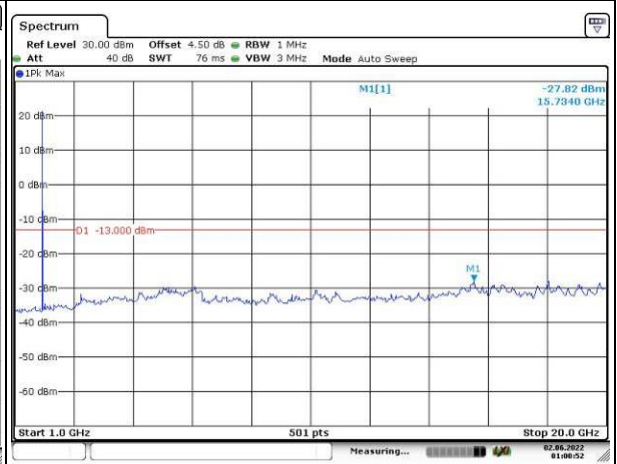
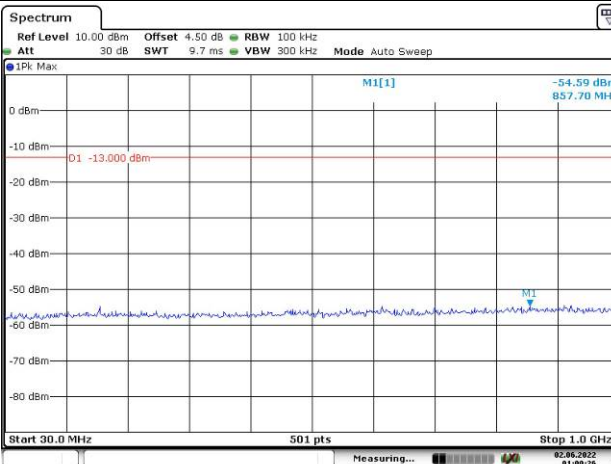
Channel

1.4MHz Bandwidth QPSK

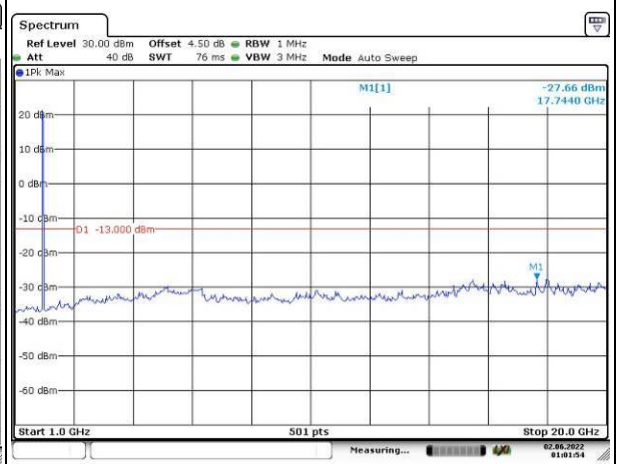
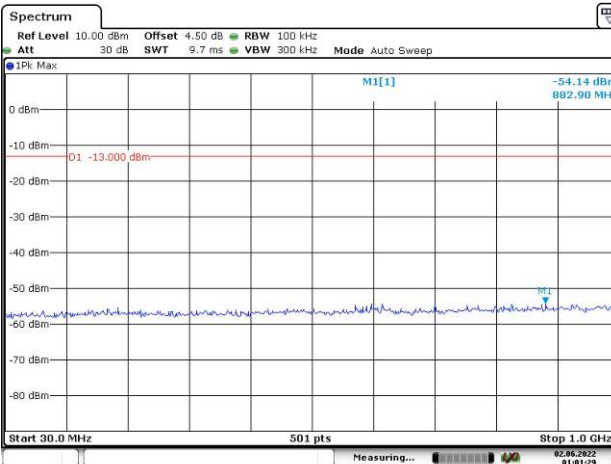
Lowest



Middle



Highest

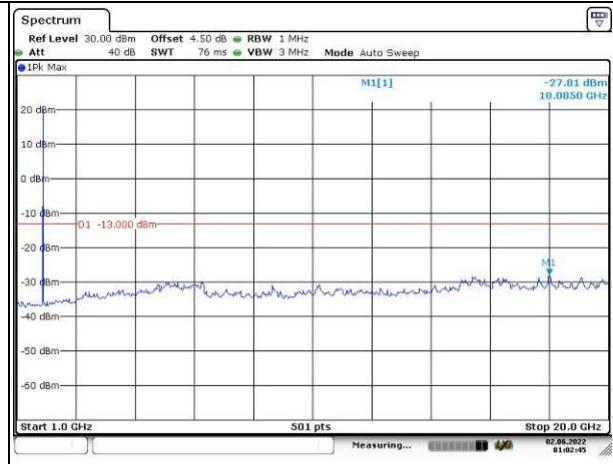
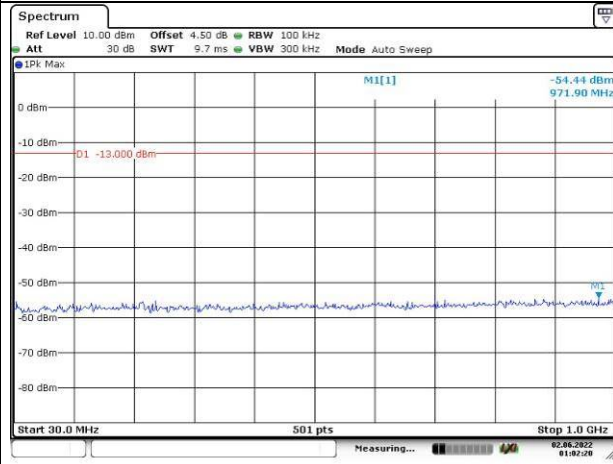


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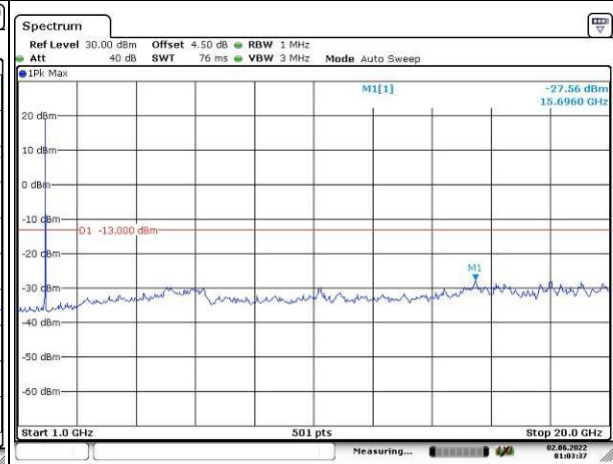
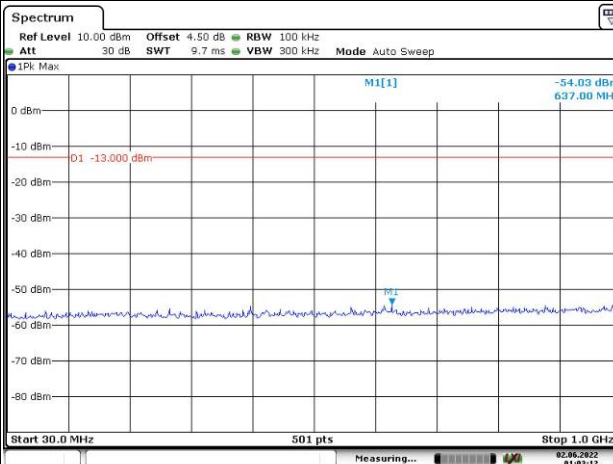
Channel

3MHz Bandwidth QPSK

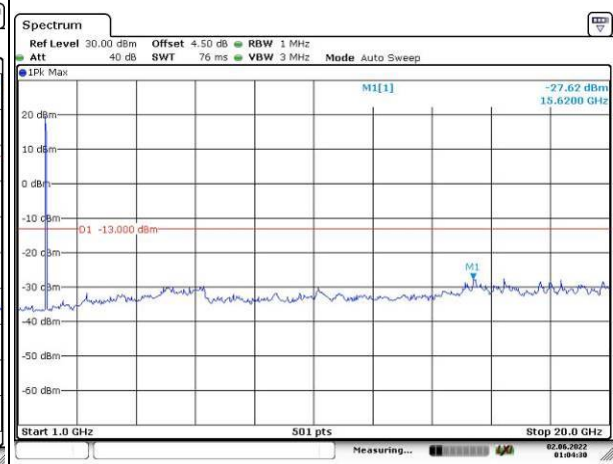
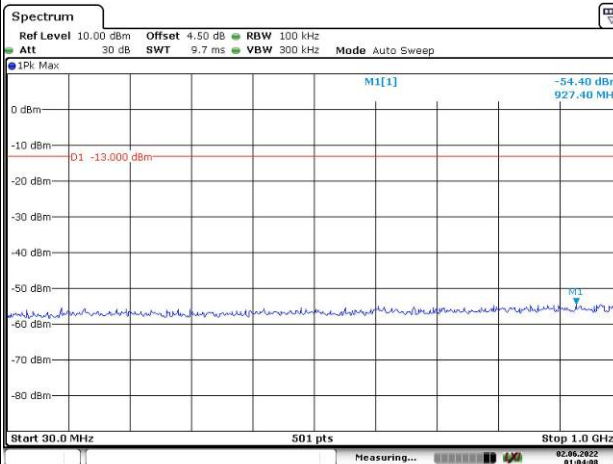
Lowest



Middle



Highest

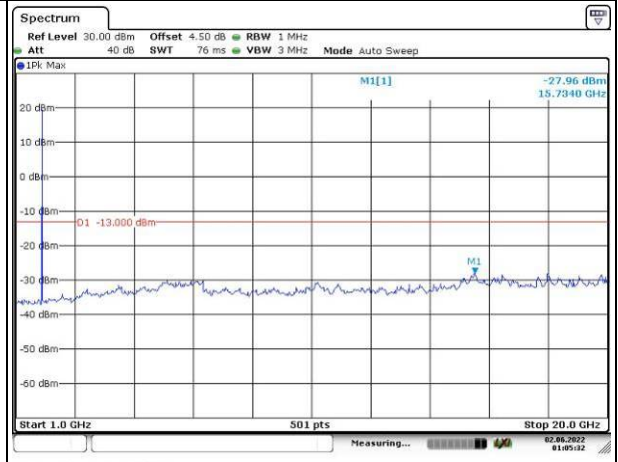
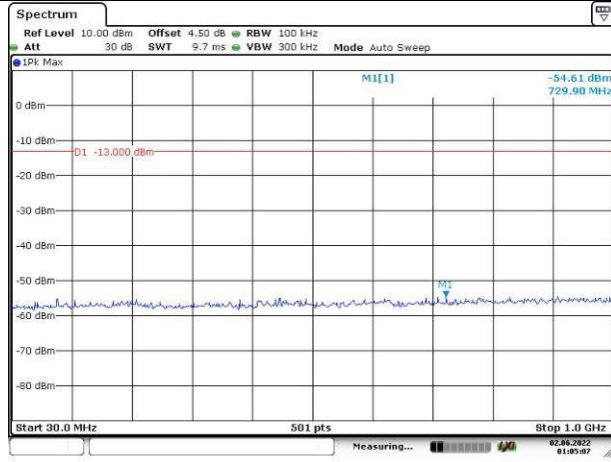


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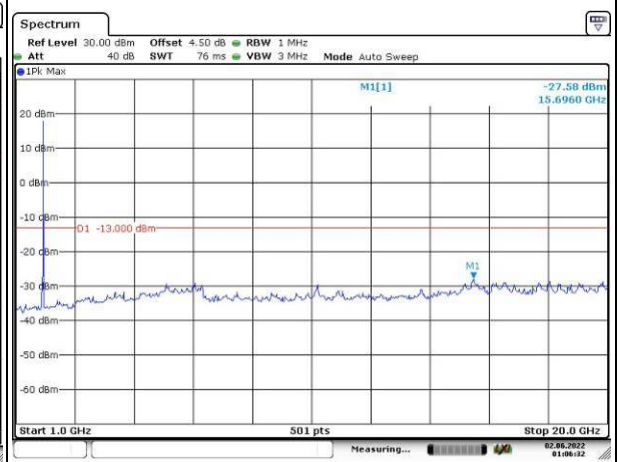
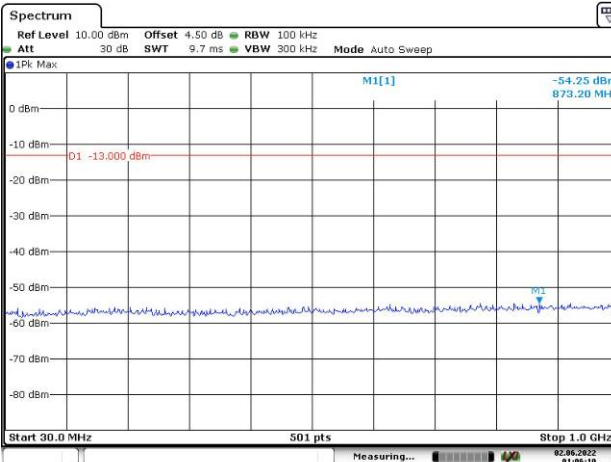
Channel

5MHz Bandwidth QPSK

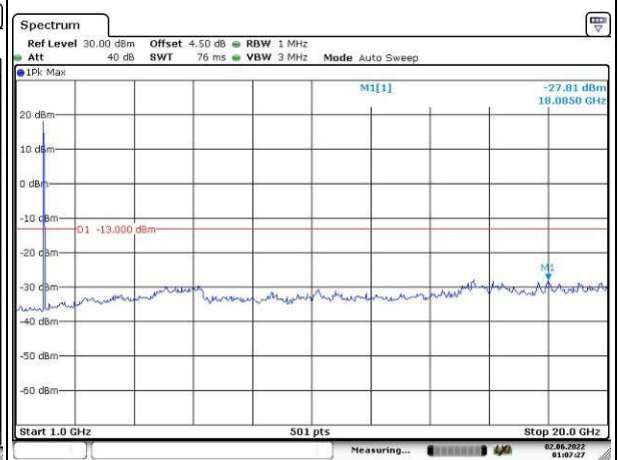
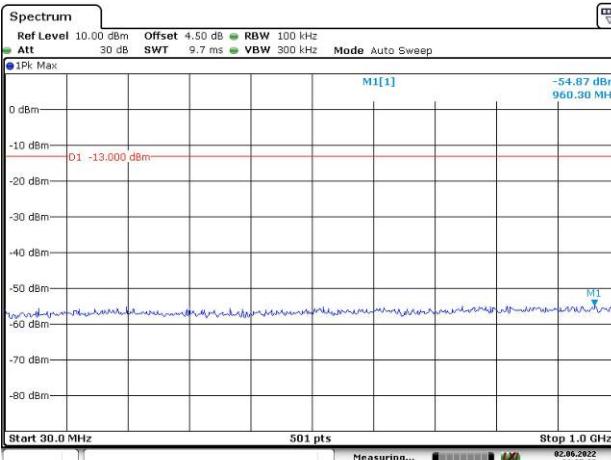
Lowest



Middle



Highest

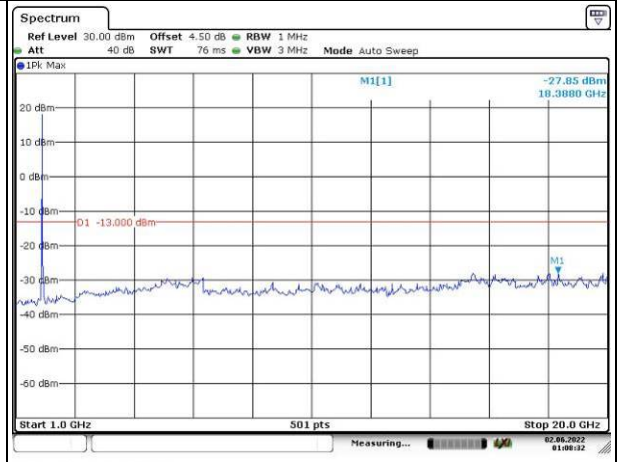
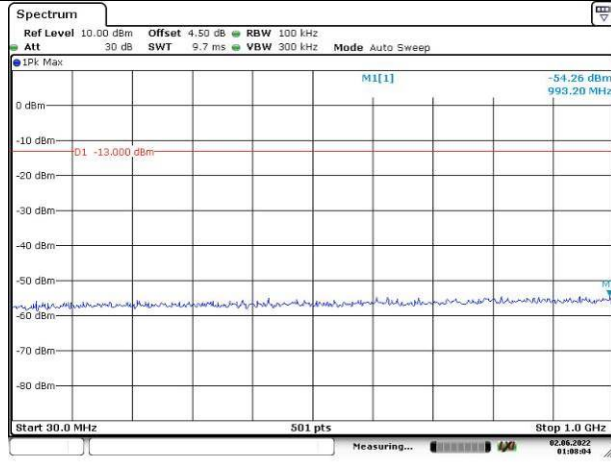


### Spurious Emissions at Antenna Terminal

Channel

10MHz Bandwidth QPSK

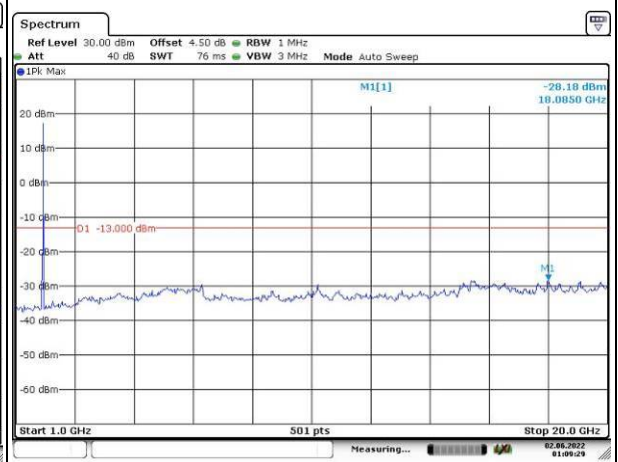
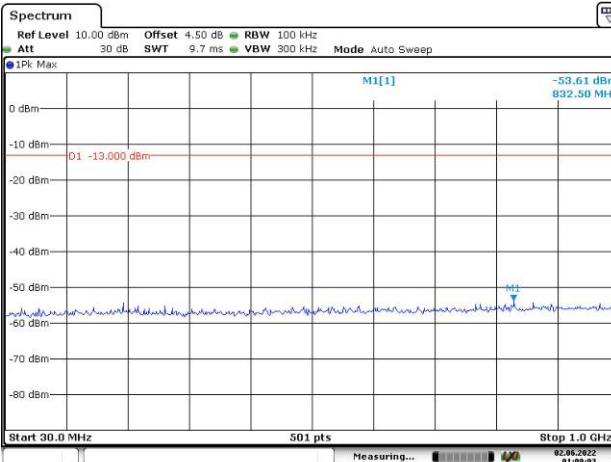
Lowest



Date: 2 JUN 2022 01:08:04

Date: 2 JUN 2022 01:08:33

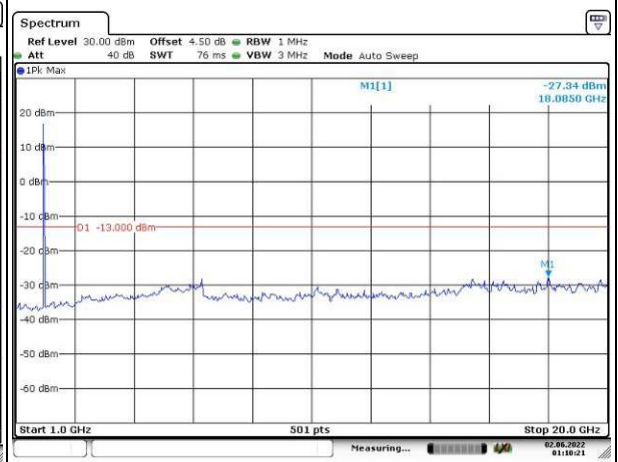
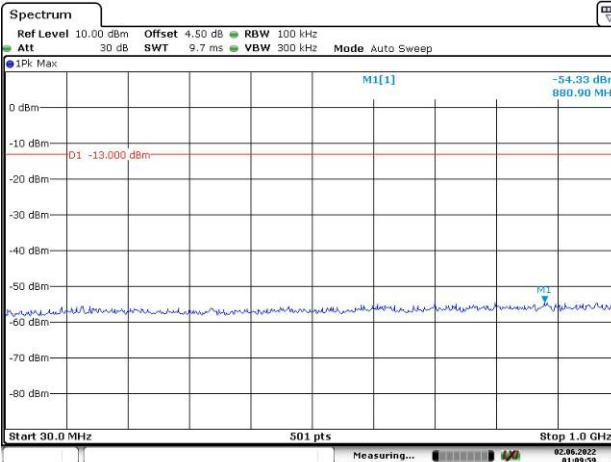
Middle



Date: 2 JUN 2022 01:09:04

Date: 2 JUN 2022 01:09:29

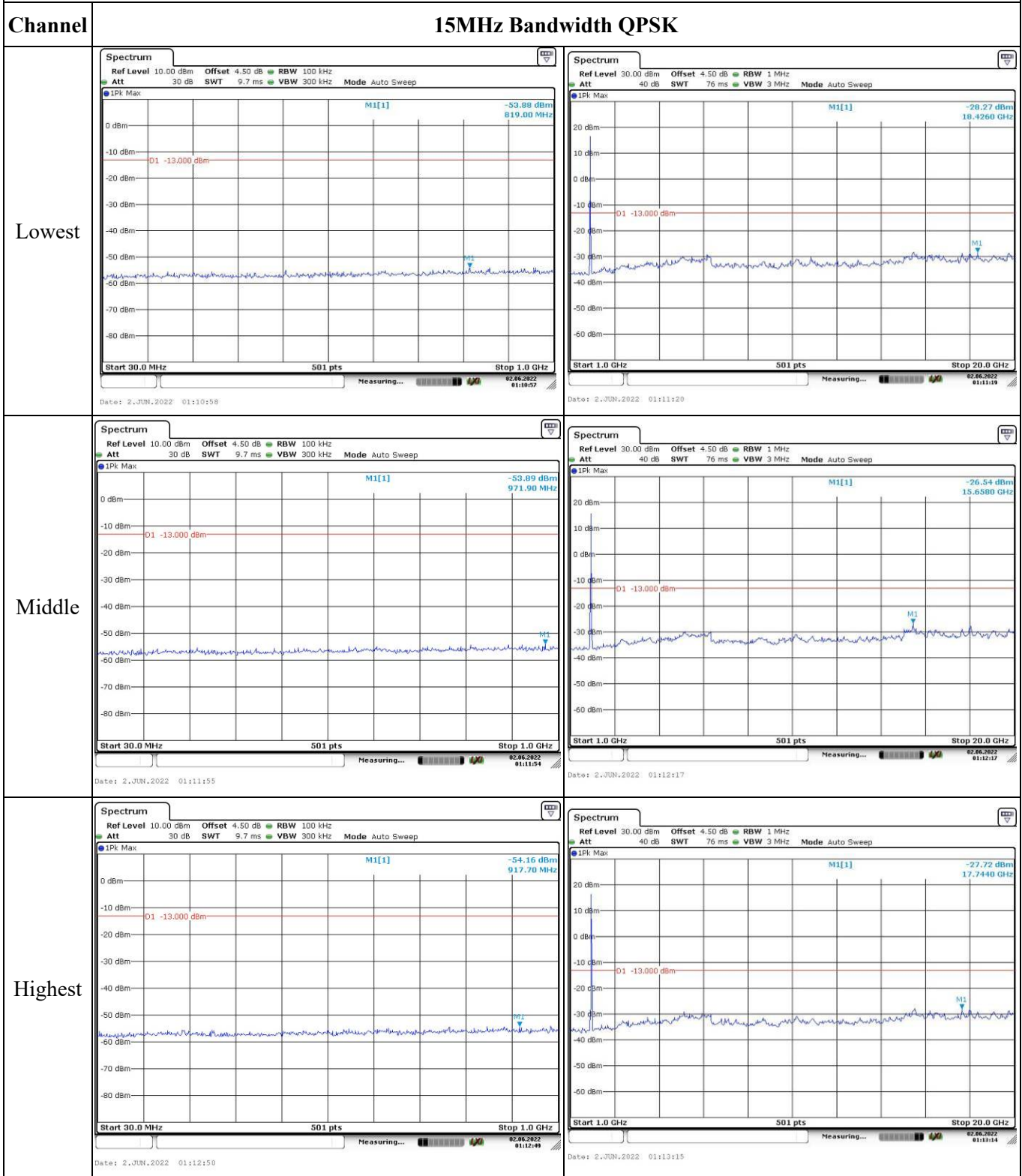
Highest



Date: 2 JUN 2022 01:10:00

Date: 2 JUN 2022 01:10:22

### Spurious Emissions at Antenna Terminal

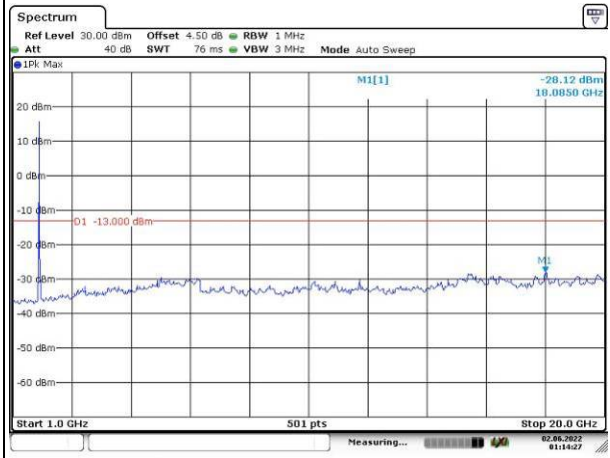
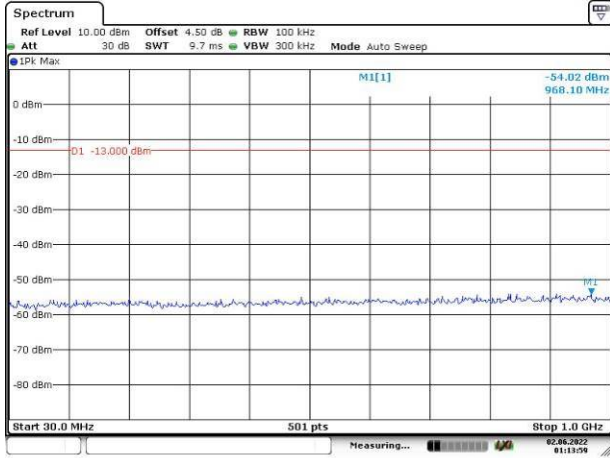


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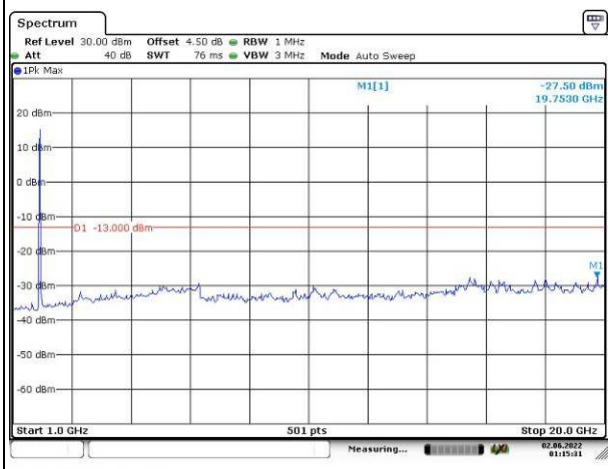
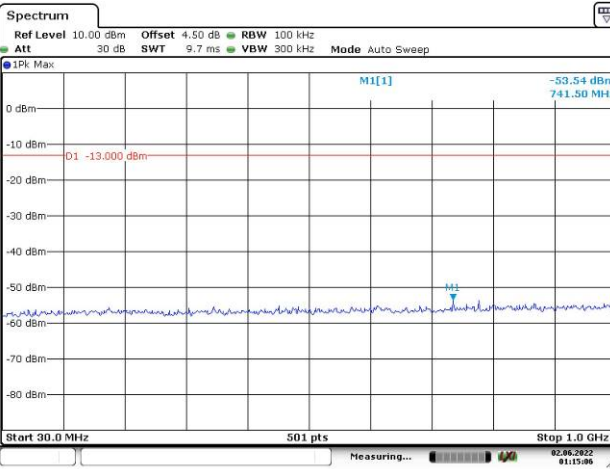
Channel

20MHz Bandwidth QPSK

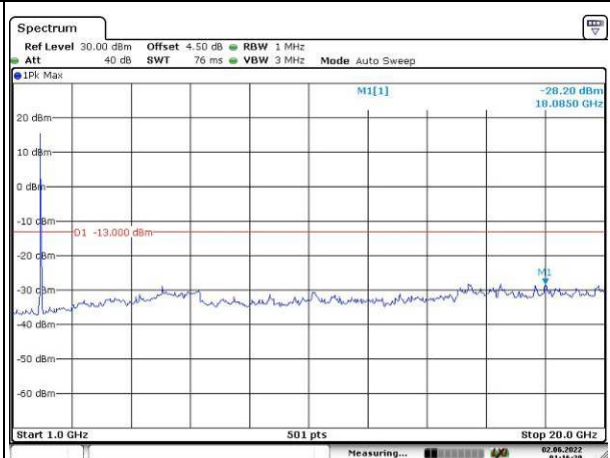
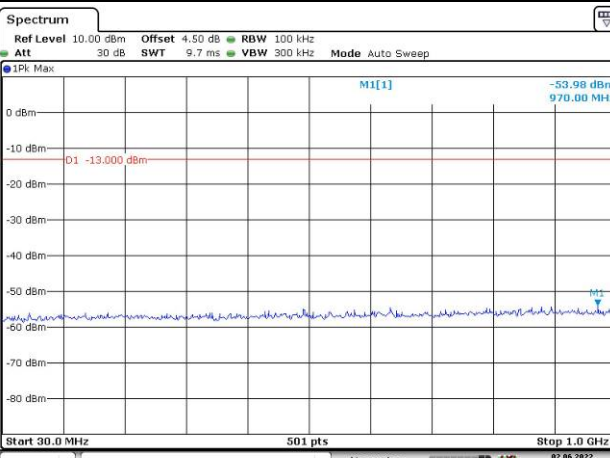
Lowest



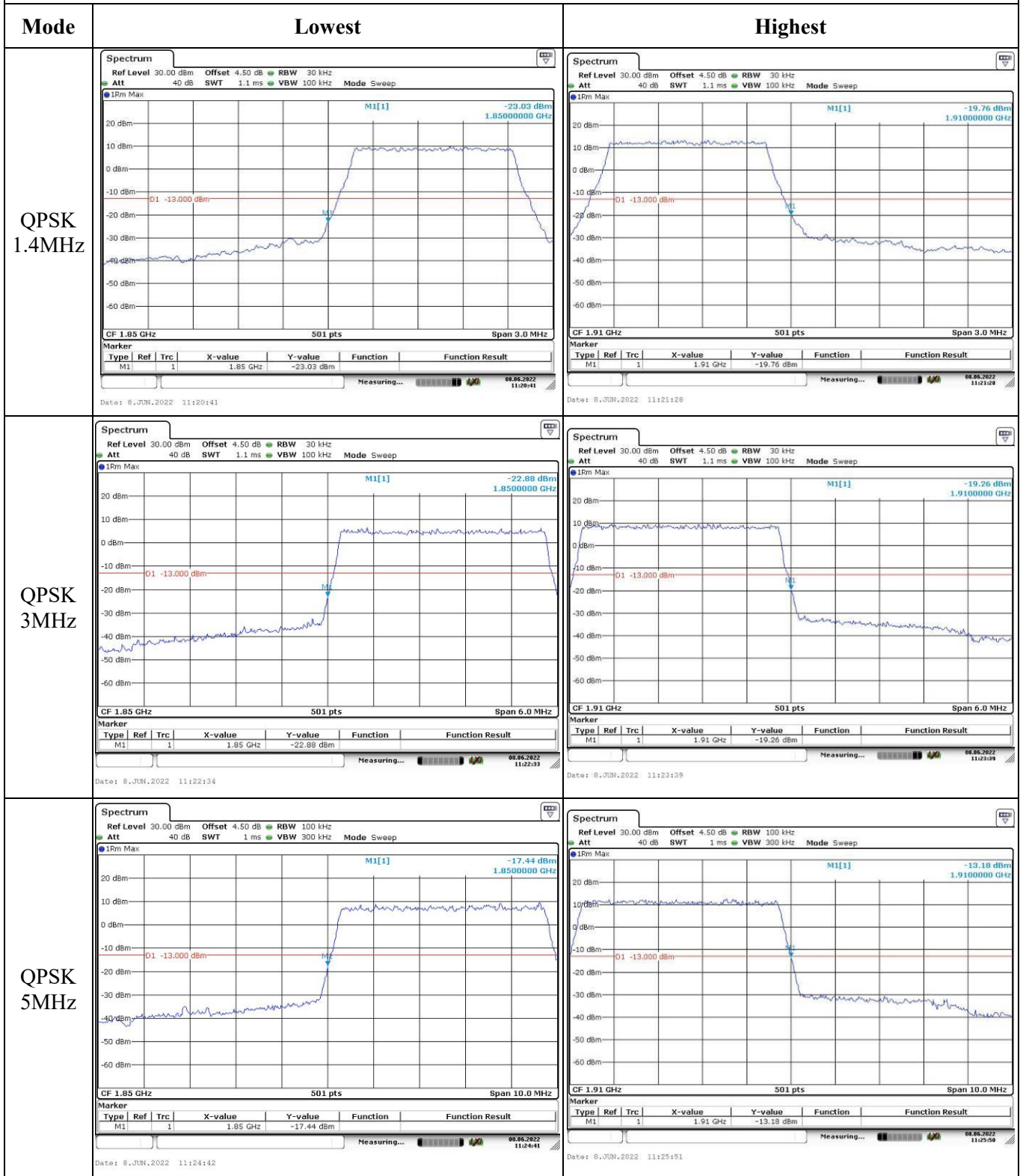
Middle



Highest

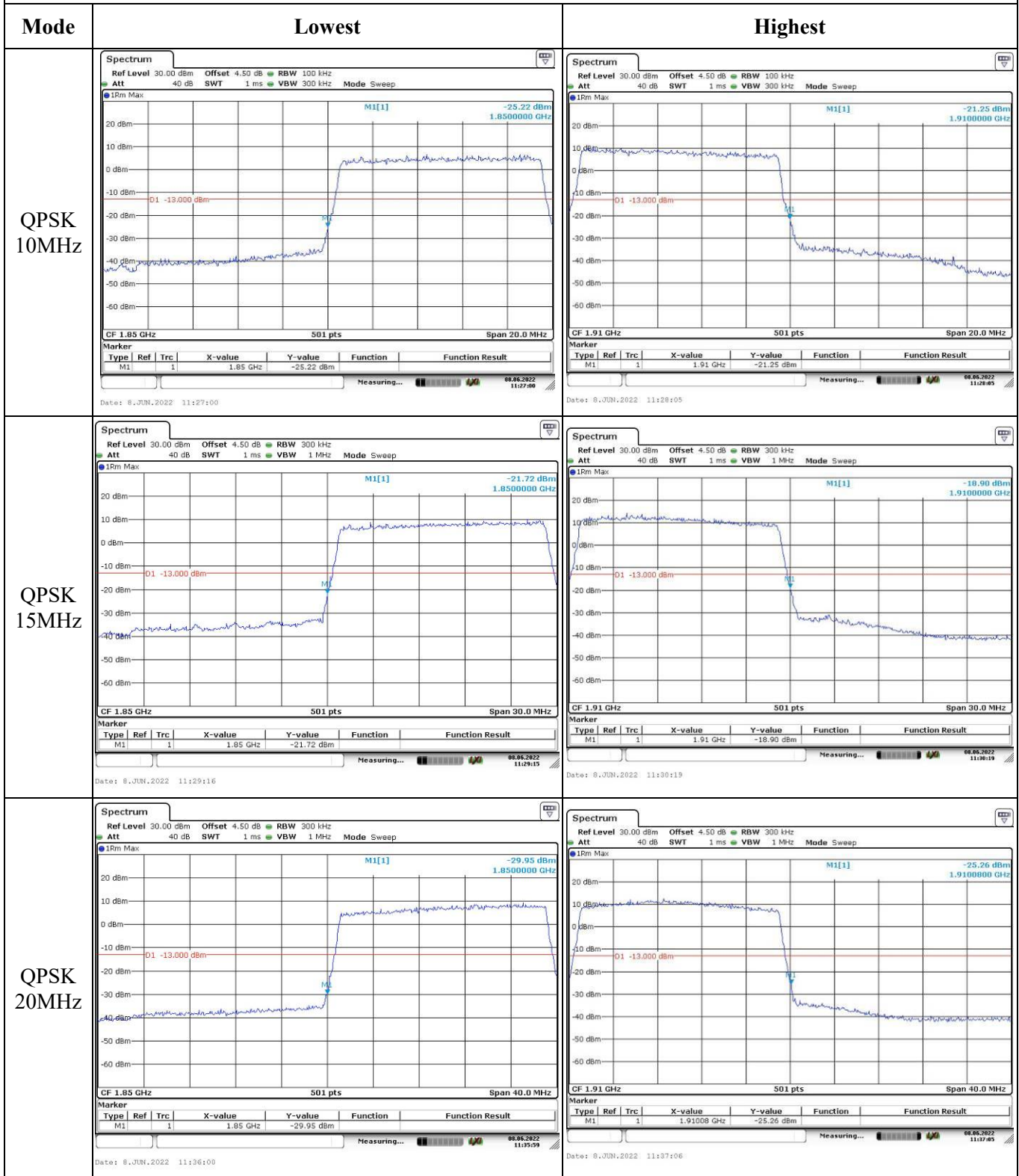


Out of band emission, Band Edge

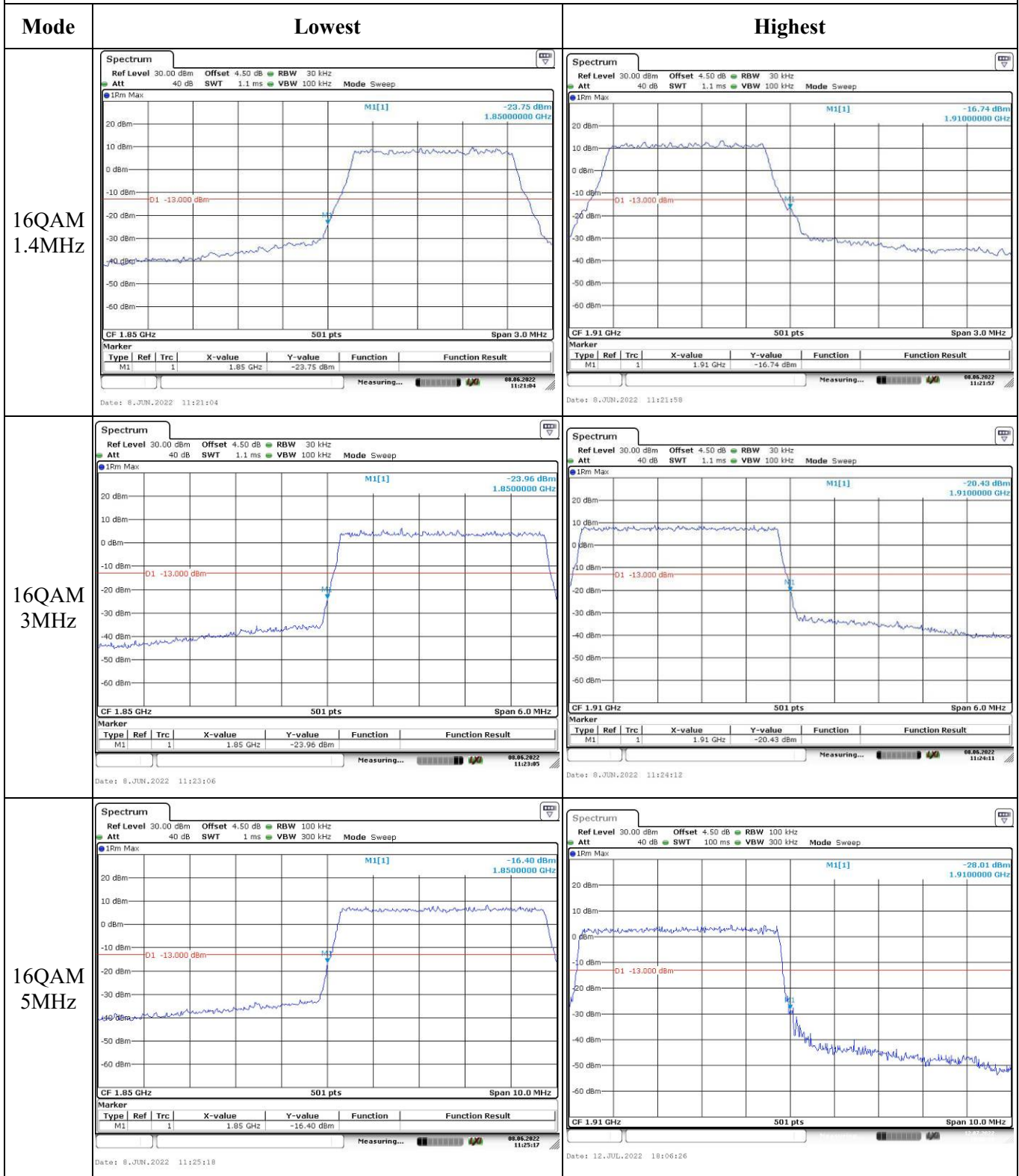




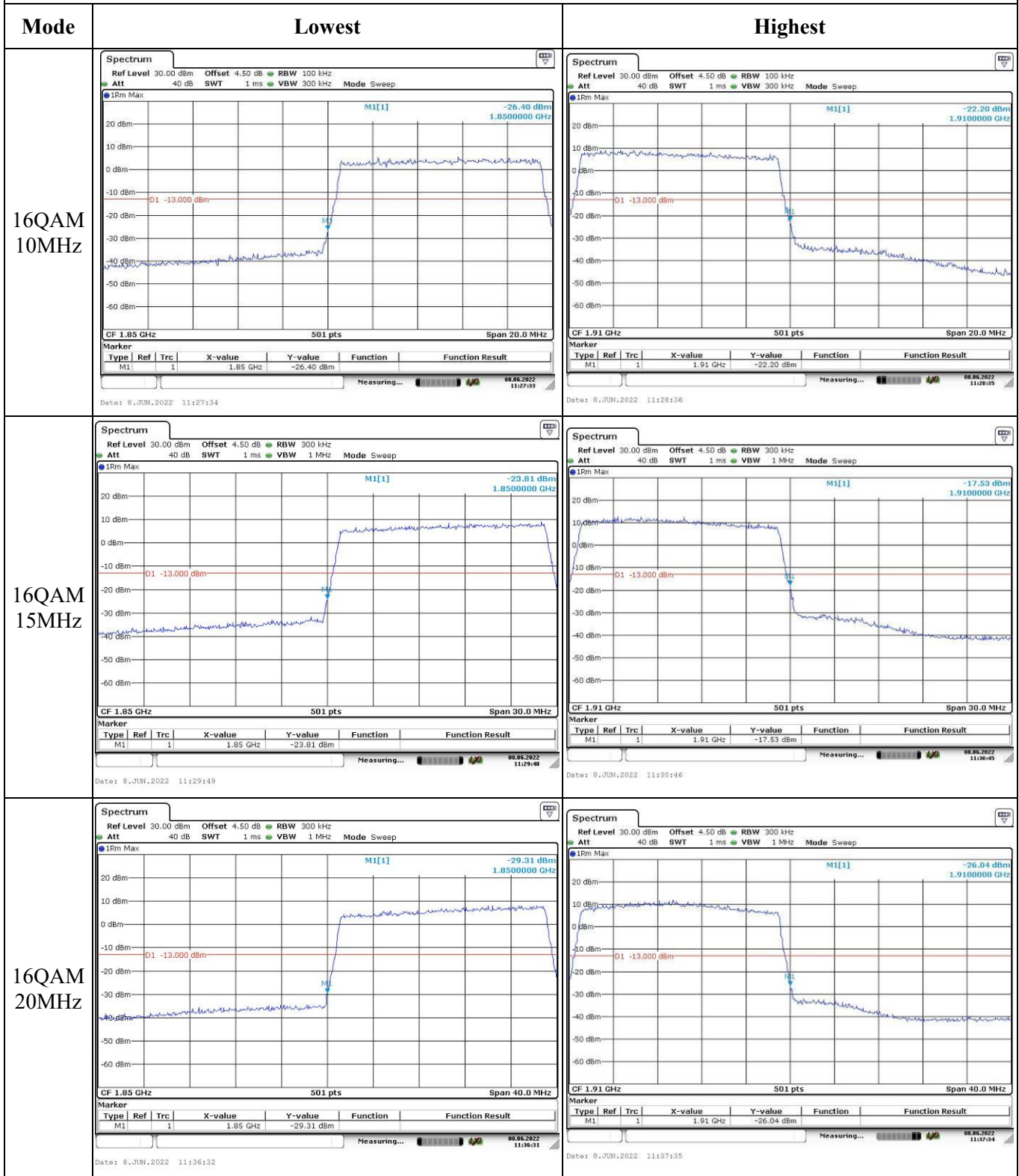
### Out of band emission, Band Edge



### Out of band emission, Band Edge



Out of band emission, Band Edge



**4.5 Antenna Port Test Data and Results for LTE Band 4:**

Serial Number:	CR22050037-RF-S1	Test Date:	2022-06-02~2022-06-08
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rinka Li	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	25.9~26	Relative Humidity: (%)	67	ATM Pressure: (kPa)	100.0~100.1
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	2021-08-08	2022-08-07
R&S	Wideband Radio Communication Tester	CMW500	149218	2021-07-22	2022-07-21
UNI-T	Multimeter	UT39A+	C210582554	2021-09-30	2022-09-29
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
Agilent	MXG Vector Signal Generator	N5182B	MY51350144	2021-07-22	2022-07-21

\* 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):	3.87	Cable Loss (dB):	0
Operation Voltage(V <sub>DC</sub> ):			
Lowest:	10.8	Normal:	13.8
		Highest:	36

**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	22.99	22.87	22.62	26.88	30
	RB1#3	23.01	22.97	22.77		
	RB1#5	22.94	22.82	22.73		
	RB3#0	22.78	22.85	22.59		
	RB3#3	22.83	22.88	22.68		
	RB6#0	21.96	21.99	21.67		
1.4MHz 16QAM	RB1#0	21.88	21.76	21.62	25.97	30
	RB1#3	22.1	21.76	21.59		
	RB1#5	21.86	21.82	21.75		
	RB3#0	21.83	21.86	21.53		
	RB3#3	21.95	21.89	21.56		
	RB6#0	20.89	20.94	20.5		
3MHz QPSK	RB1#0	22.96	22.88	22.66	26.83	30
	RB1#8	22.83	22.76	22.6		
	RB1#14	22.86	22.83	22.74		
	RB6#0	21.86	21.87	21.55		
	RB6#9	22.03	21.9	21.56		
	RB15#0	22.05	21.88	21.55		
3MHz 16QAM	RB1#0	21.81	21.71	21.53	25.78	30
	RB1#8	21.9	21.69	21.52		
	RB1#14	21.89	21.91	21.56		
	RB6#0	20.77	20.84	20.37		
	RB6#9	21.03	20.92	20.39		
	RB15#0	21.05	20.93	20.44		
5MHz QPSK	RB1#0	22.72	22.76	22.57	26.75	30
	RB1#13	22.88	22.77	22.47		
	RB1#24	22.71	22.78	22.67		
	RB15#0	21.88	21.82	21.59		
	RB15#10	21.97	21.83	21.57		
	RB25#0	22.02	21.81	21.52		
5MHz 16QAM	RB1#0	21.79	21.76	21.67	25.84	30
	RB1#13	21.89	21.72	21.57		
	RB1#24	21.8	21.97	21.67		
	RB15#0	20.99	20.82	20.7		

	RB15#10	20.97	20.86	20.69		
	RB25#0	20.97	20.82	20.51		
10MHz QPSK	RB1#0	22.88	22.83	22.81	26.76	30
	RB1#25	22.89	22.87	22.65		
	RB1#49	22.81	22.71	22.74		
	RB25#0	21.88	21.74	21.64		
	RB25#25	21.64	21.8	21.53		
	RB50#0	21.82	21.73	21.7		
10MHz 16QAM	RB1#0	21.78	21.68	21.82	25.73	30
	RB1#25	21.86	21.74	21.77		
	RB1#49	21.68	21.78	21.84		
	RB25#0	20.94	20.79	20.71		
	RB25#25	20.8	20.81	20.61		
	RB50#0	20.91	20.8	20.73		
15MHz QPSK	RB1#0	23.01	22.68	22.76	26.88	30
	RB1#38	22.96	22.63	22.56		
	RB1#74	23.01	22.8	22.58		
	RB36#0	21.81	21.85	21.67		
	RB36#39	21.89	21.88	21.59		
	RB75#0	21.87	21.82	21.64		
15MHz 16QAM	RB1#0	21.81	21.65	21.81	25.8	30
	RB1#38	21.69	21.81	21.5		
	RB1#74	21.88	21.93	21.52		
	RB36#0	20.92	20.94	20.72		
	RB36#39	20.9	20.92	20.66		
	RB75#0	20.91	20.9	20.69		
20MHz QPSK	RB1#0	22.78	22.99	22.81	26.86	30
	RB1#50	22.88	22.94	22.68		
	RB1#99	22.88	22.87	22.7		
	RB50#0	21.83	21.8	21.85		
	RB50#50	21.98	21.83	21.63		
	RB100#0	22	21.88	21.87		
20MHz 16QAM	RB1#0	21.93	21.55	21.81	26.04	30
	RB1#50	22.09	21.67	21.88		
	RB1#99	22.17	21.67	21.73		
	RB50#0	20.87	20.95	20.96		
	RB50#50	21.04	20.94	20.76		
	RB100#0	20.97	20.91	20.86		
Note: EIRP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(dBi)					<b>Result:</b>	<b>Pass</b>

<b>Peak-to-average Ratio(PAR)</b>					
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	4.35	4.06	13
	RB100#0	4.9	5.01	4.61	13
20MHz 16QAM	RB1#0	5.13	5.04	5.16	13
	RB100#0	5.88	6.03	5.59	13
<b>Result:</b>					<b>Pass</b>

<b>FCC §2.1049, §27.53:Occupied Bandwidth</b>						
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	1.108	1.096	1.314	1.314	1.308
1.4MHz 16QAM	1.102	1.102	1.102	1.314	1.32	1.308
3MHz QPSK	2.695	2.707	2.683	2.988	2.964	2.964
3MHz 16QAM	2.695	2.695	2.683	2.964	2.964	2.976
5MHz QPSK	4.511	4.511	4.531	5.02	5.04	5
5MHz 16QAM	4.531	4.511	4.511	5.02	5.02	5.02
10MHz QPSK	8.981	8.901	8.942	9.8	9.72	9.68
10MHz 16QAM	8.942	8.942	8.942	9.84	9.76	9.76
15MHz QPSK	13.473	13.533	13.413	14.82	14.82	14.76
15MHz 16QAM	13.473	13.473	13.473	14.88	14.82	14.82
20MHz QPSK	17.884	17.964	17.884	19.36	19.44	19.44
20MHz 16QAM	17.884	17.964	17.884	19.36	19.52	19.44

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

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

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

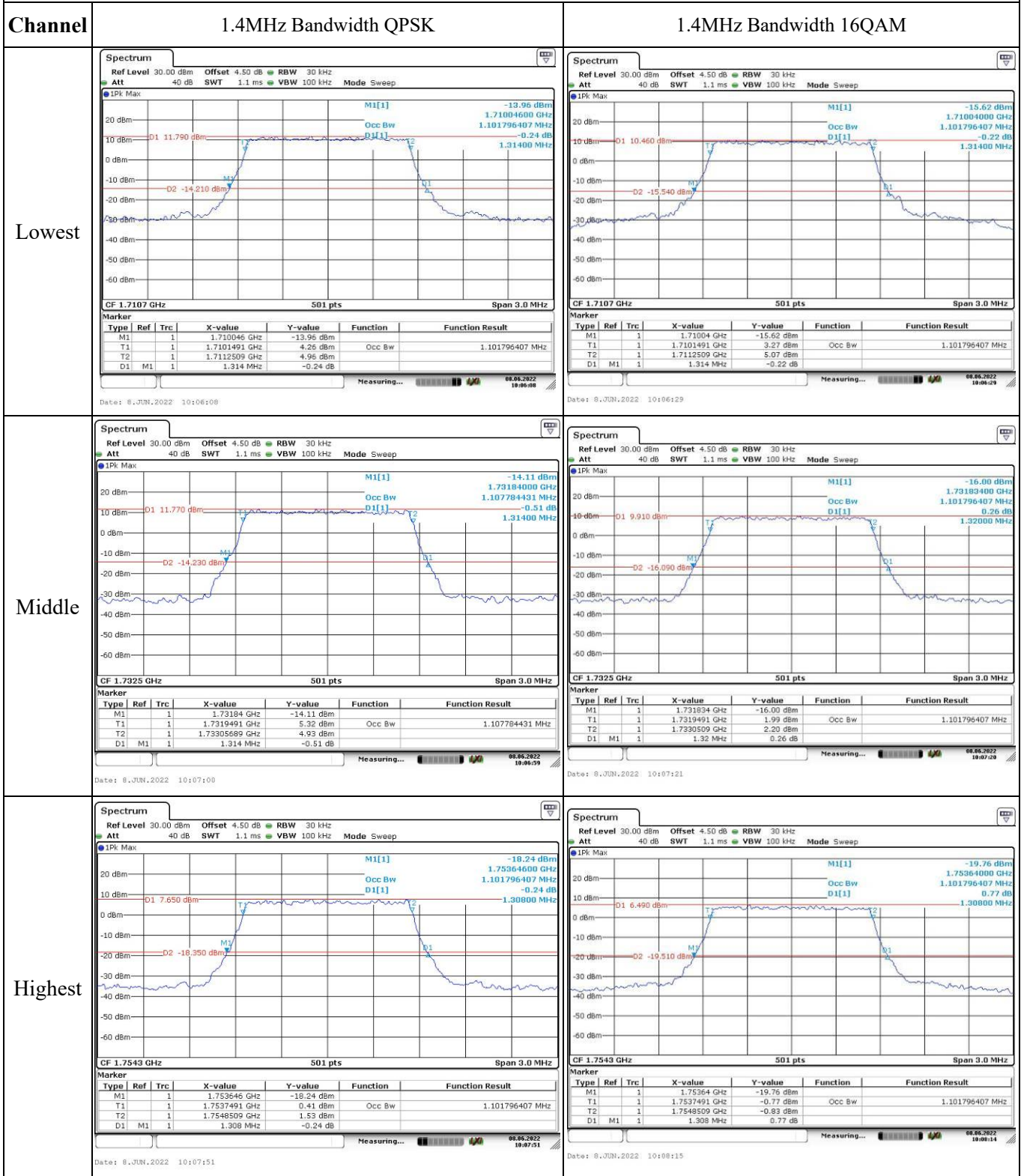
<b>FCC §2.1055, §27.54: Frequency Stability</b>						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	13.8	1710.121	1710.00	1754.917	1755
	-20	13.8	1710.108	1710.00	1754.920	1755
	-10	13.8	1710.108	1710.00	1754.918	1755
	0	13.8	1710.106	1710.00	1754.915	1755
	10	13.8	1710.095	1710.00	1754.923	1755
	20	13.8	1710.085	1710.00	1754.915	1755
	30	13.8	1710.089	1710.00	1754.927	1755
	40	13.8	1710.093	1710.00	1754.917	1755
Frequency Stability vs. Voltage	50	13.8	1710.107	1710.00	1754.918	1755
	20	10.8	1710.109	1710.00	1754.916	1755
	20	36	1710.120	1710.00	1754.917	1755
					<b>Result:</b>	<b>Pass</b>

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	13.8	1710.127	1710.00	1754.929	1755
	-20	13.8	1710.116	1710.00	1754.916	1755
	-10	13.8	1710.106	1710.00	1754.929	1755
	0	13.8	1710.098	1710.00	1754.922	1755
	10	13.8	1710.090	1710.00	1754.923	1755
	20	13.8	1710.085	1710.00	1754.915	1755
	30	13.8	1710.085	1710.00	1754.917	1755
	40	13.8	1710.097	1710.00	1754.918	1755
Frequency Stability vs. Voltage	50	13.8	1710.101	1710.00	1754.917	1755
	20	10.8	1710.107	1710.00	1754.929	1755
	20	36	1710.115	1710.00	1754.919	1755
					<b>Result:</b>	<b>Pass</b>

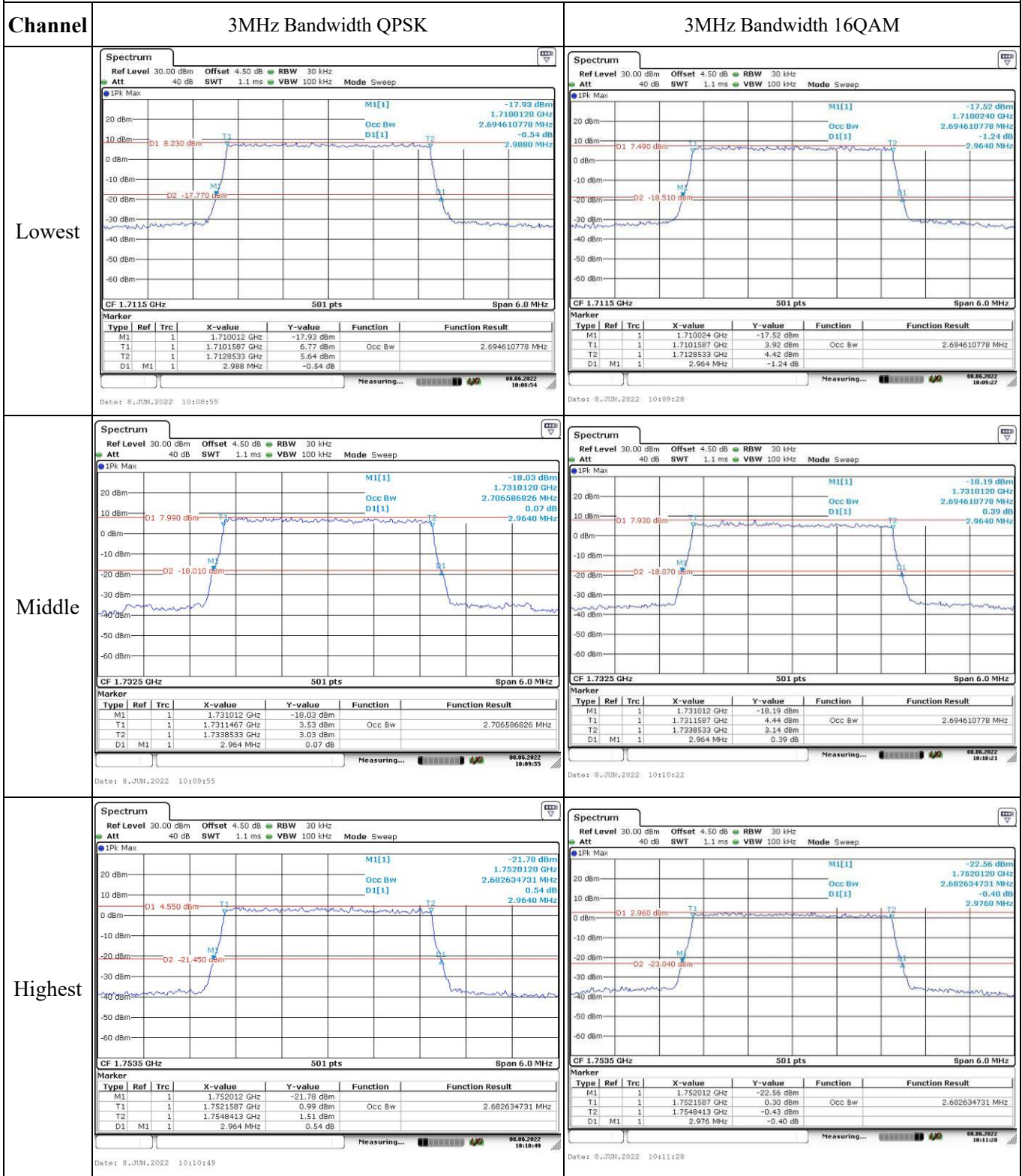


Test Plots:

Occupied Bandwidth



### Occupied Bandwidth



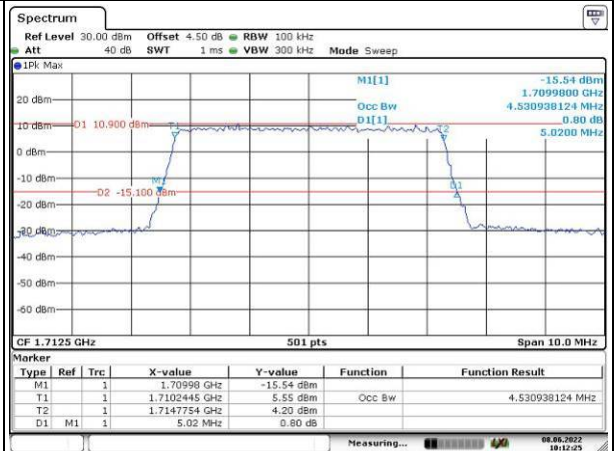
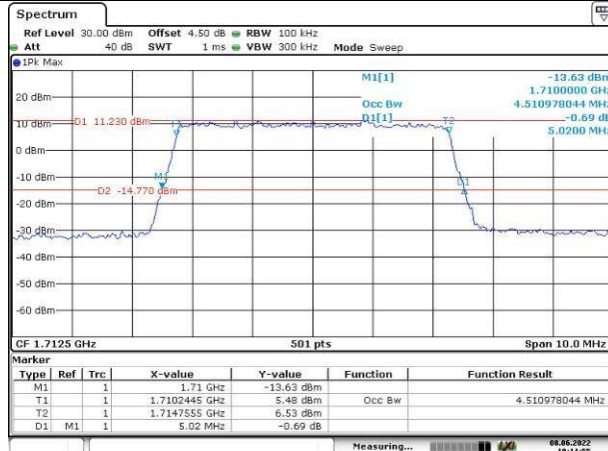
### Occupied Bandwidth

Channel

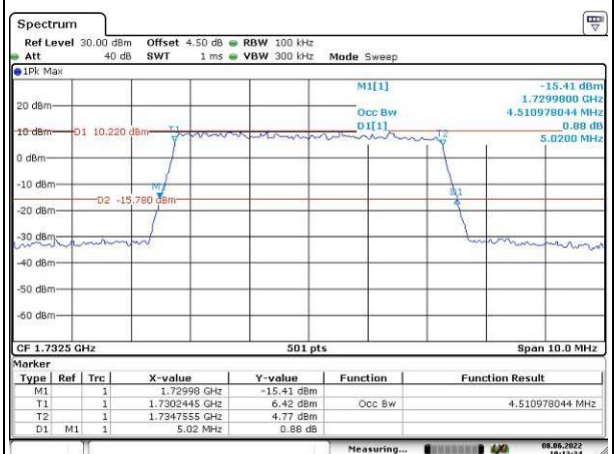
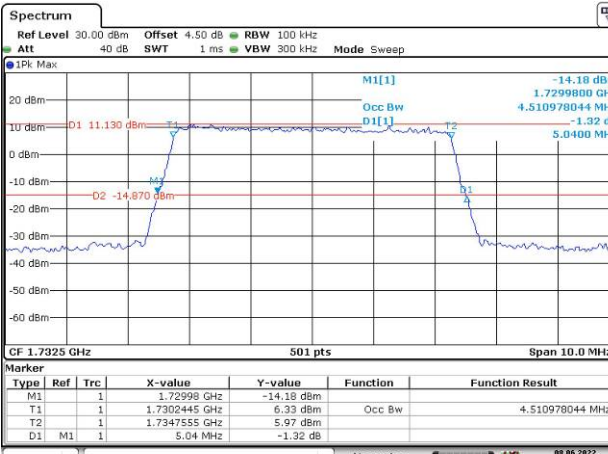
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

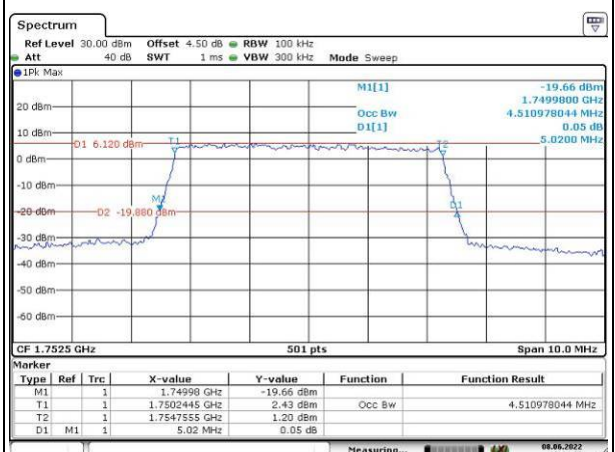
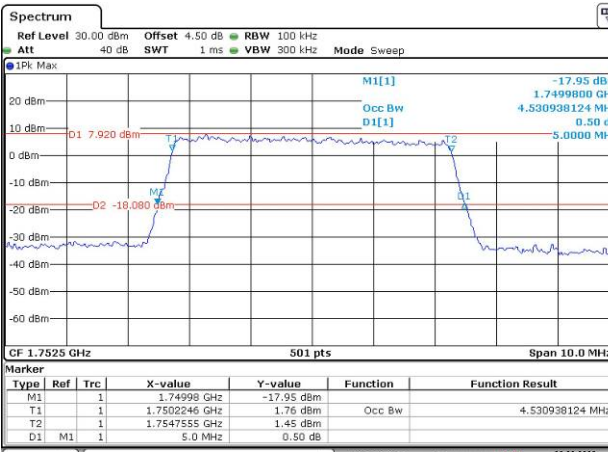
Lowest



Middle



Highest



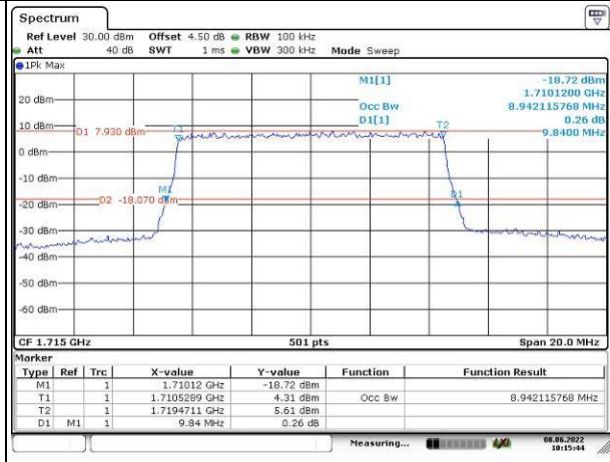
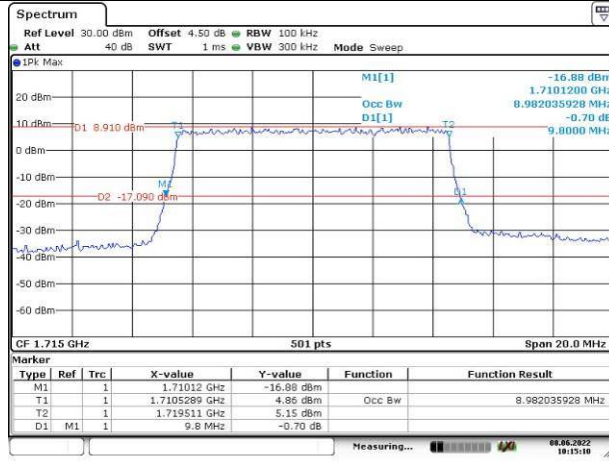
### Occupied Bandwidth

Channel

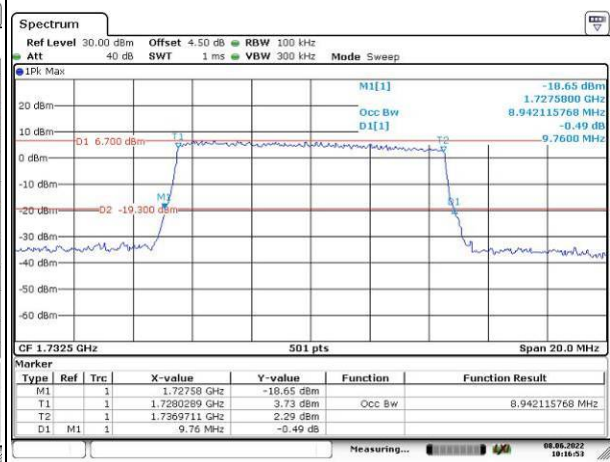
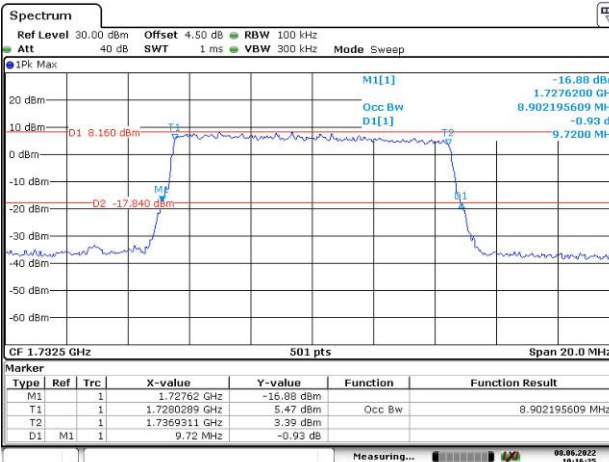
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

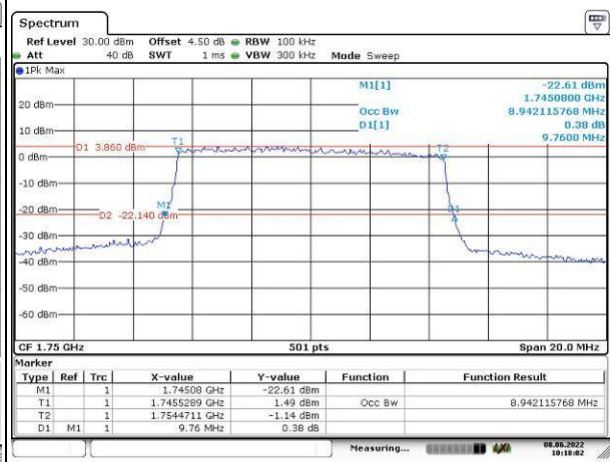
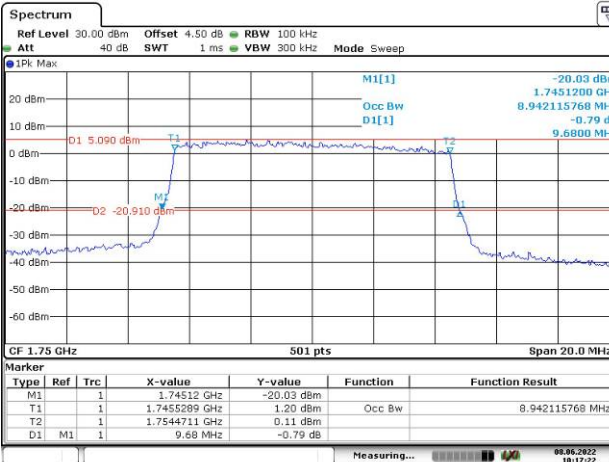
Lowest



Middle



Highest



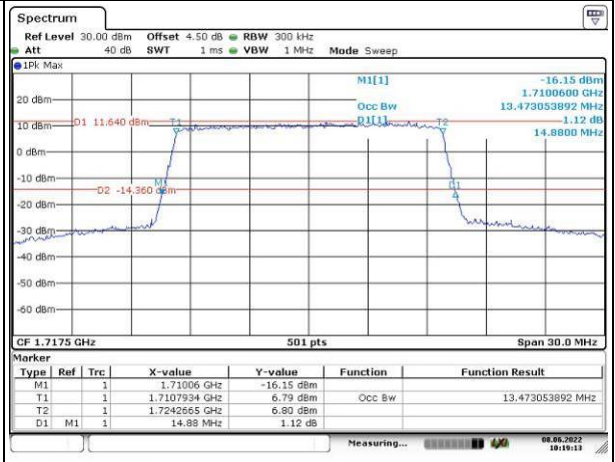
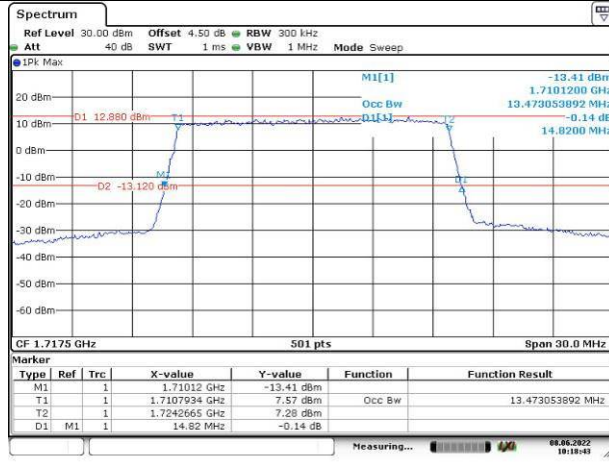
### Occupied Bandwidth

Channel

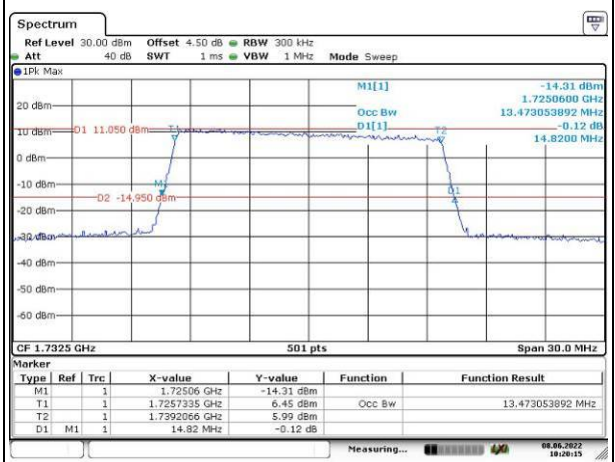
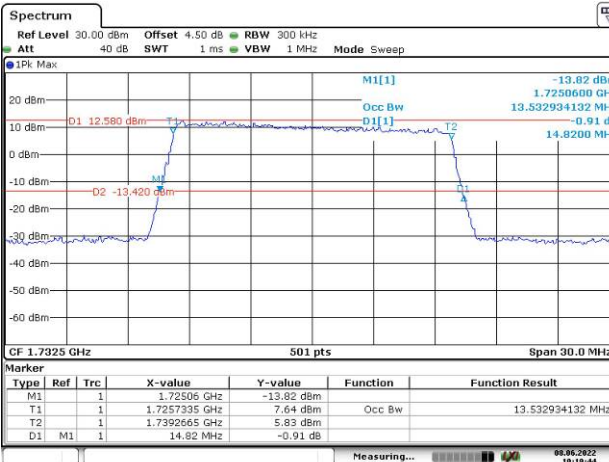
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

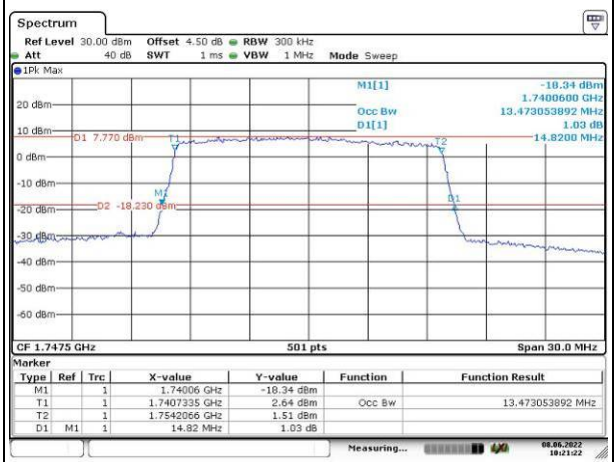
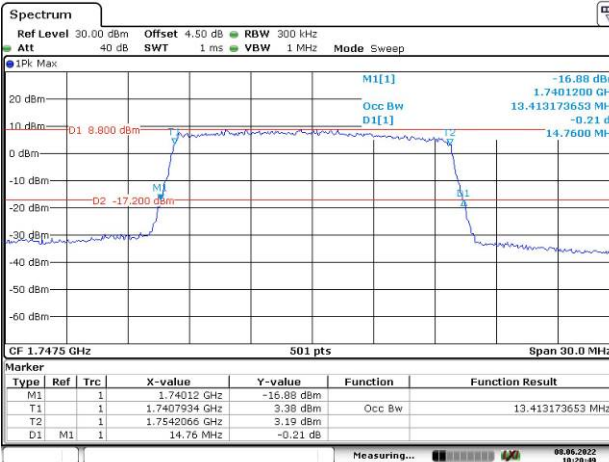
Lowest



Middle



Highest



### Occupied Bandwidth

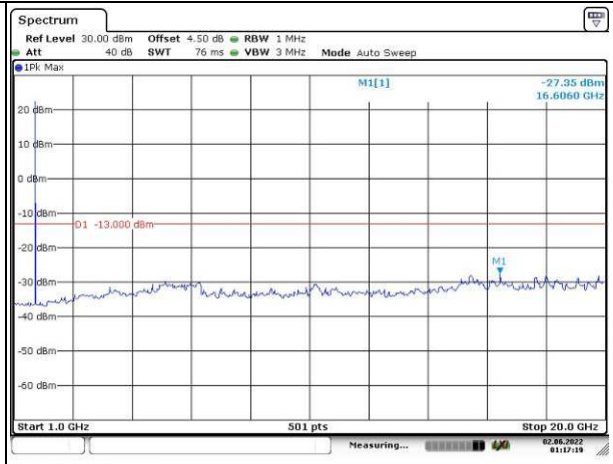
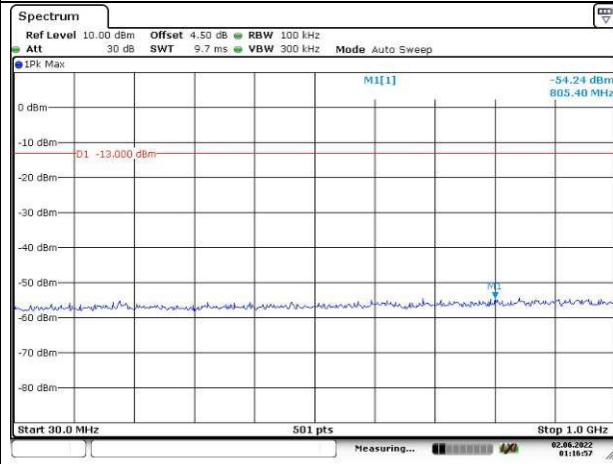
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### Spurious Emissions at Antenna Terminal

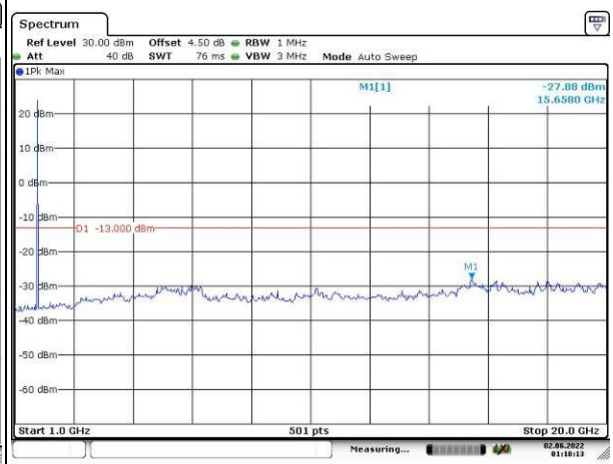
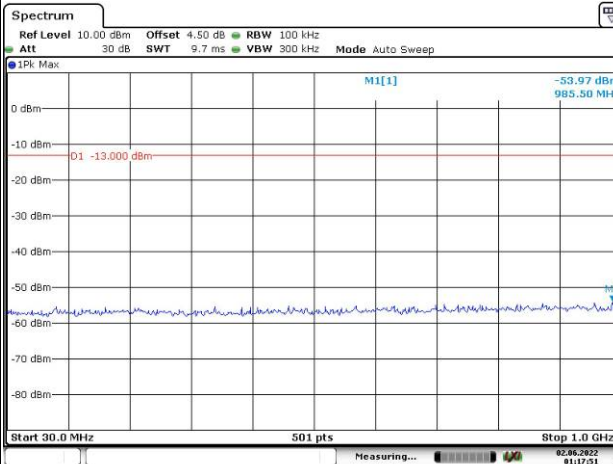
Channel

1.4MHz Bandwidth QPSK

Lowest



Middle



Highest

