

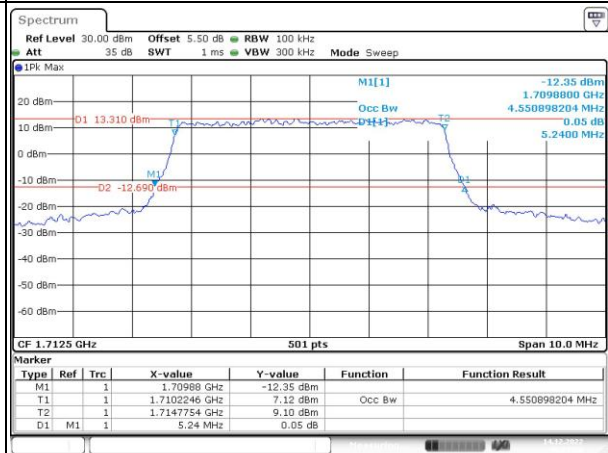
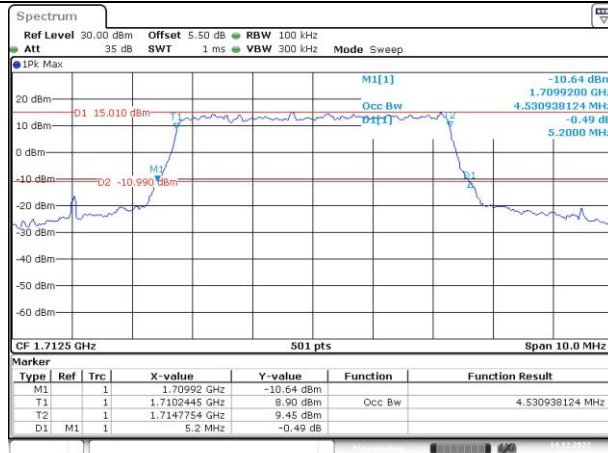
Occupied Bandwidth

Channel

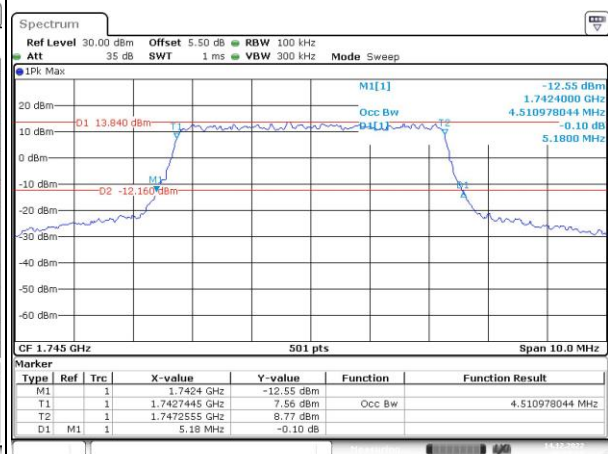
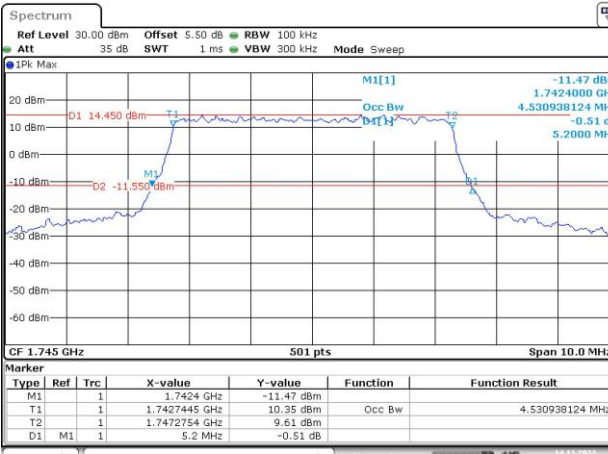
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

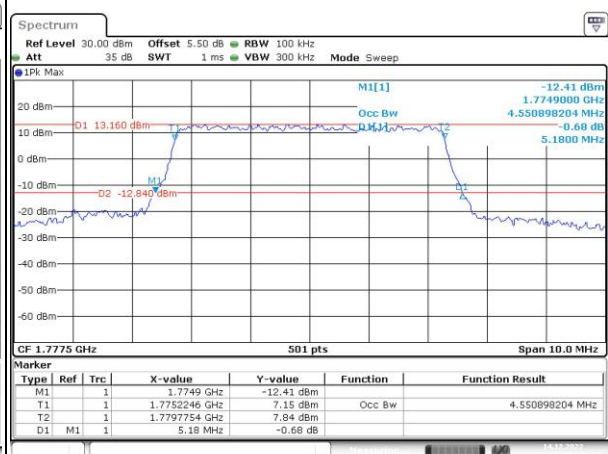
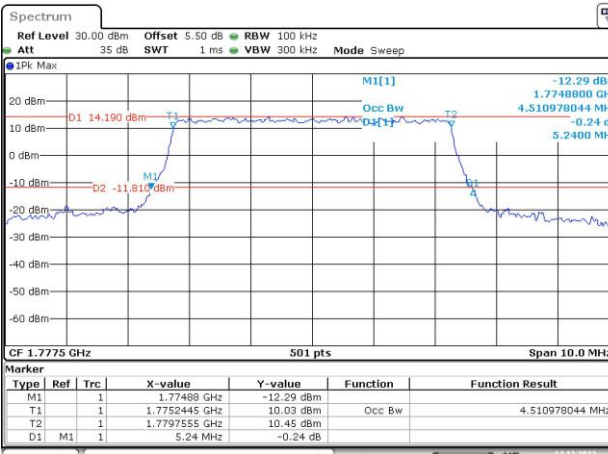
Lowest



Middle



Highest



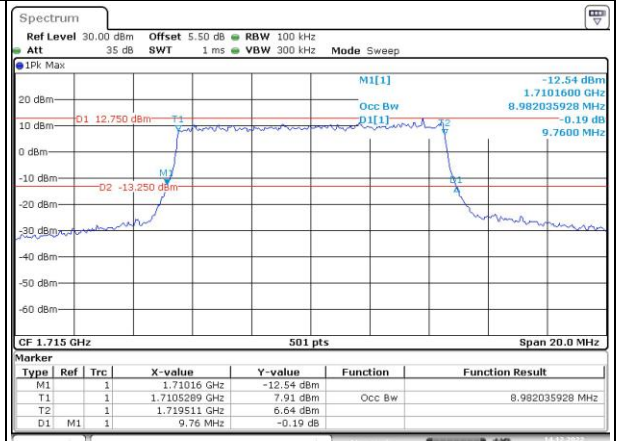
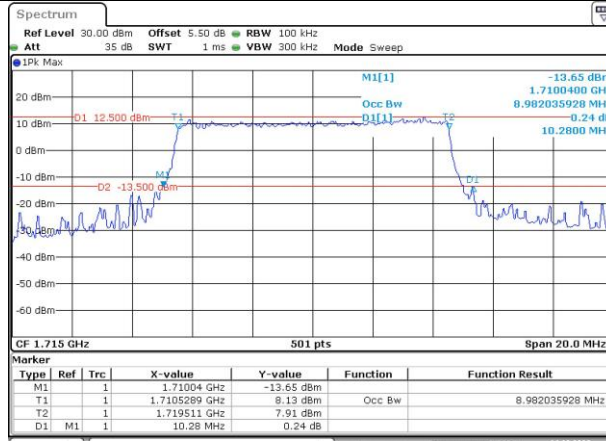
Occupied Bandwidth

Channel

10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

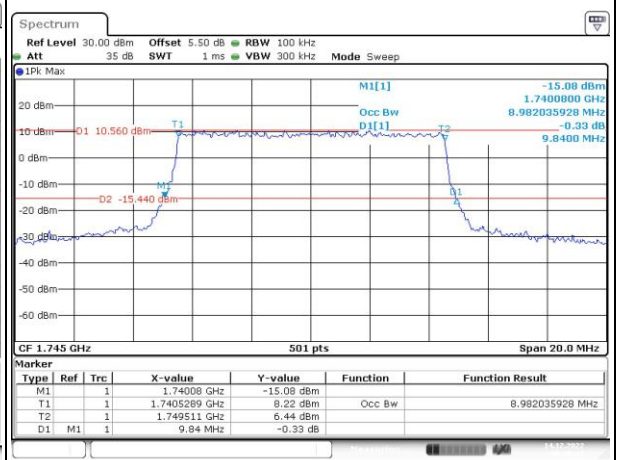
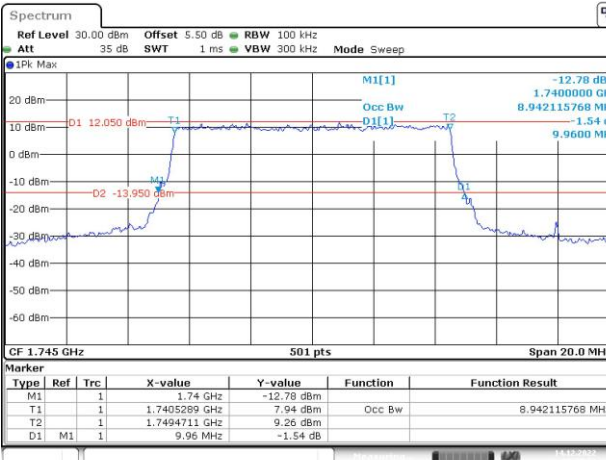
Lowest



Date: 14.DEC.2022 00:37:06

Date: 14.DEC.2022 00:37:43

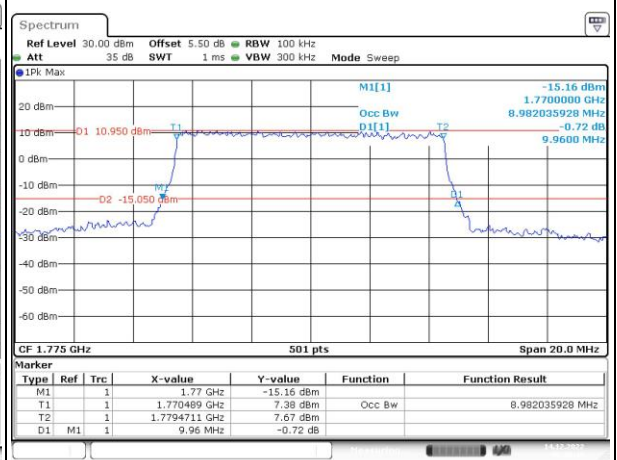
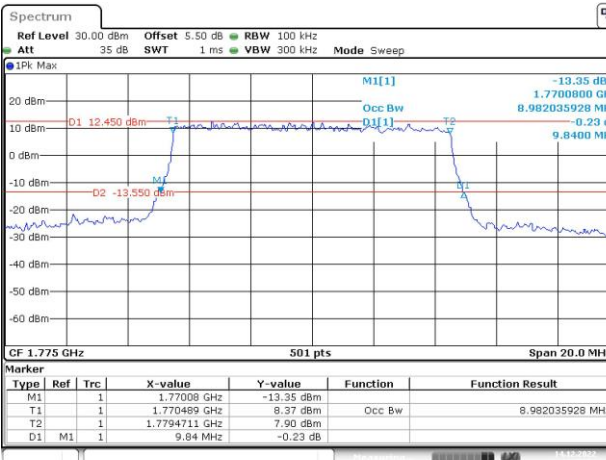
Middle



Date: 14.DEC.2022 00:38:13

Date: 14.DEC.2022 00:38:41

Highest



Date: 14.DEC.2022 00:39:14

Date: 14.DEC.2022 00:39:49

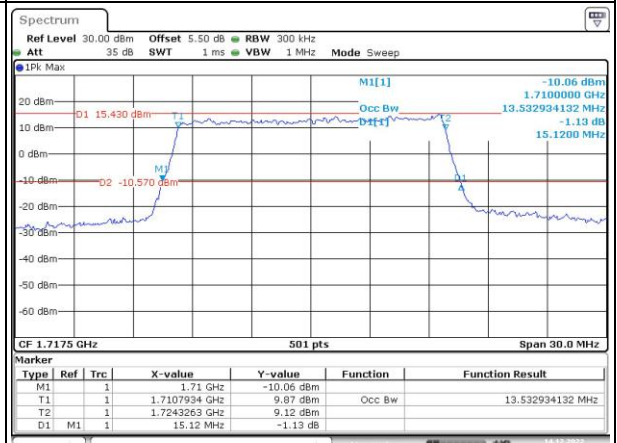
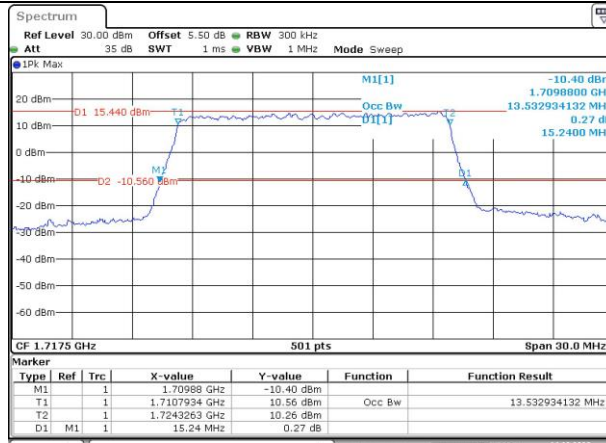
Occupied Bandwidth

Channel

15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

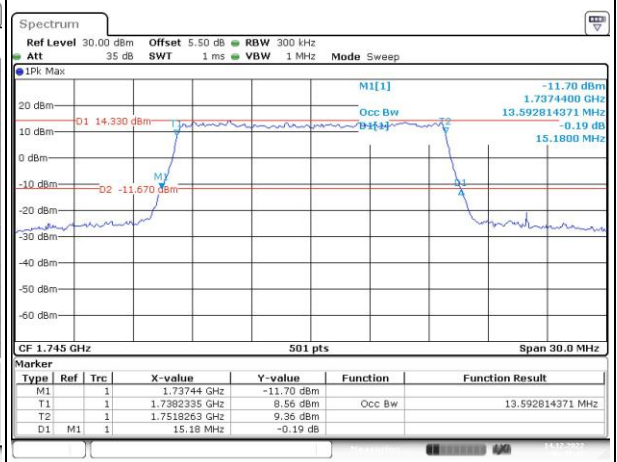
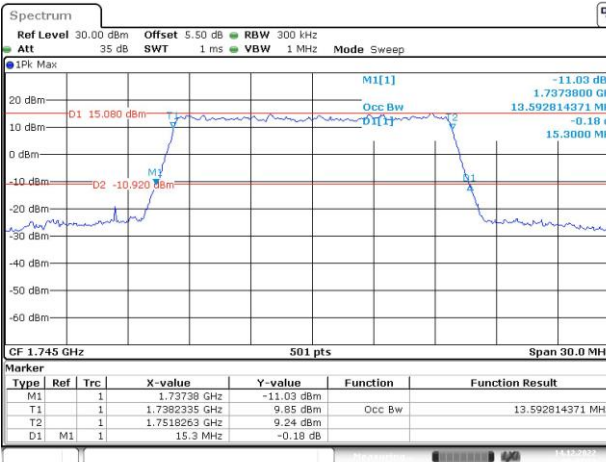
Lowest



Date: 14.DEC.2022 00:41:34

Date: 14.DEC.2022 00:41:57

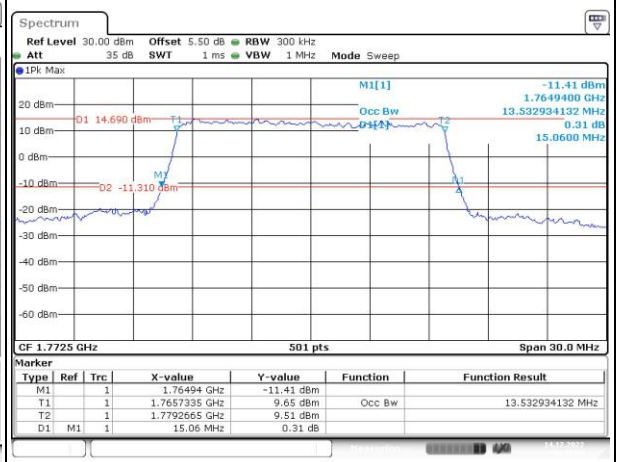
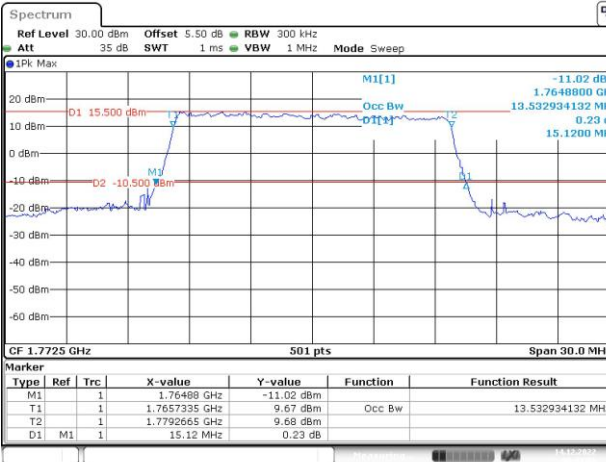
Middle



Date: 14.DEC.2022 00:42:22

Date: 14.DEC.2022 00:42:42

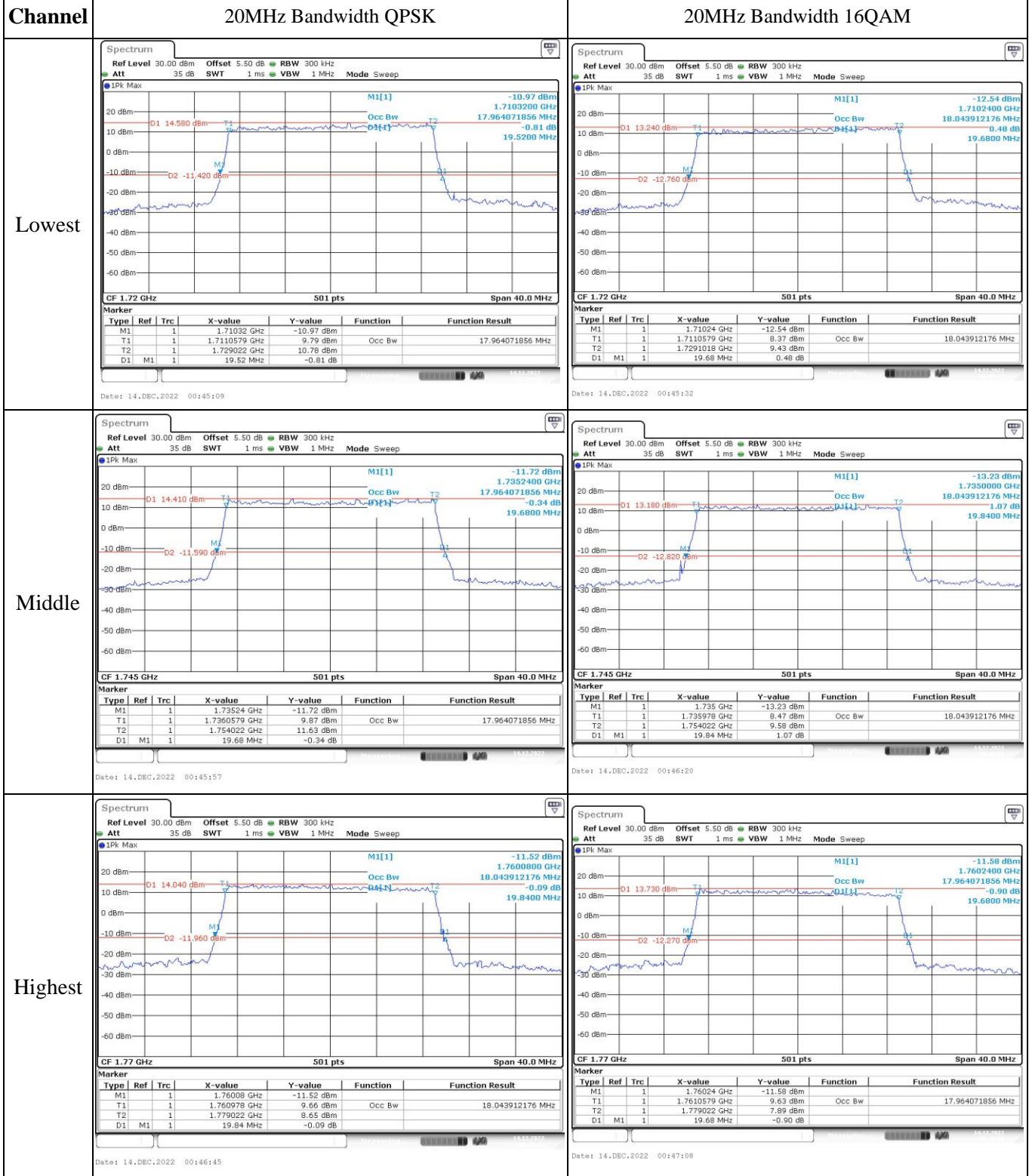
Highest



Date: 14.DEC.2022 00:43:07

Date: 14.DEC.2022 00:43:30

Occupied Bandwidth

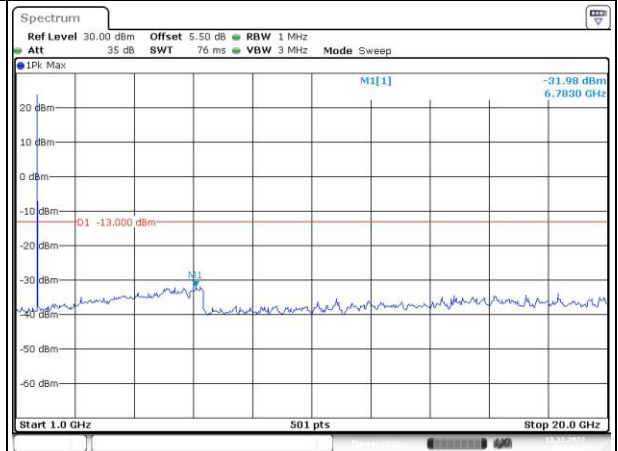
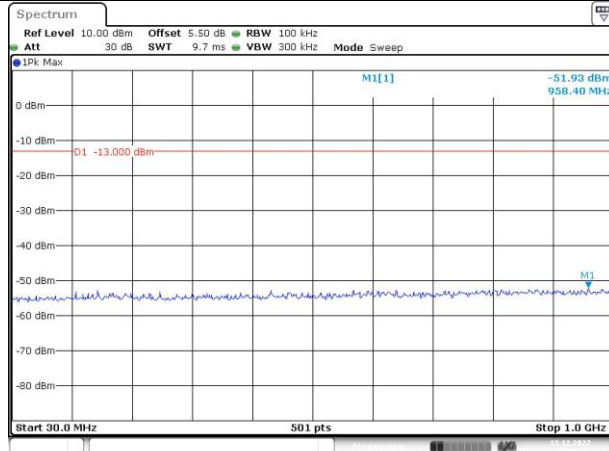


Spurious Emissions at Antenna Terminal

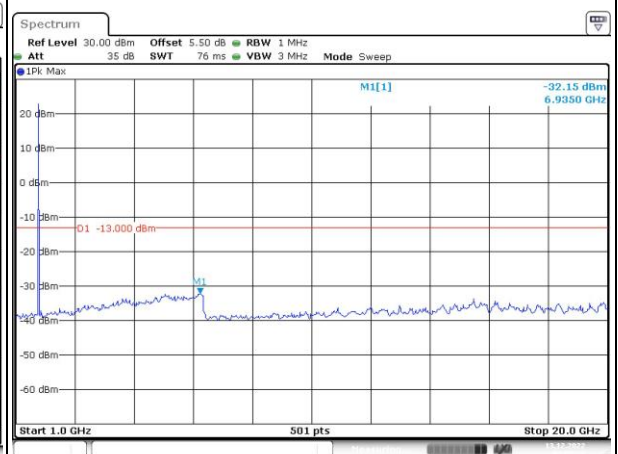
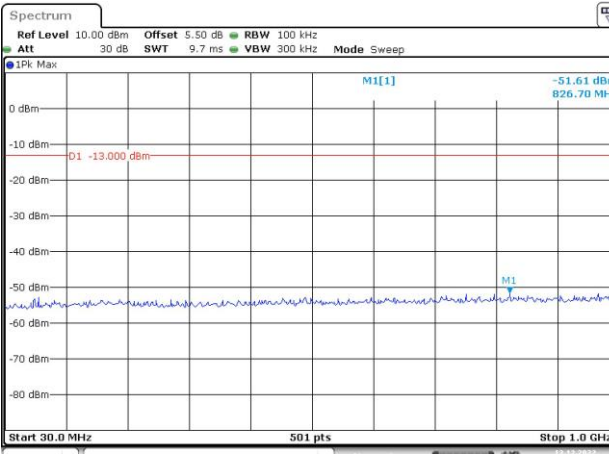
Channel

1.4MHz Bandwidth QPSK

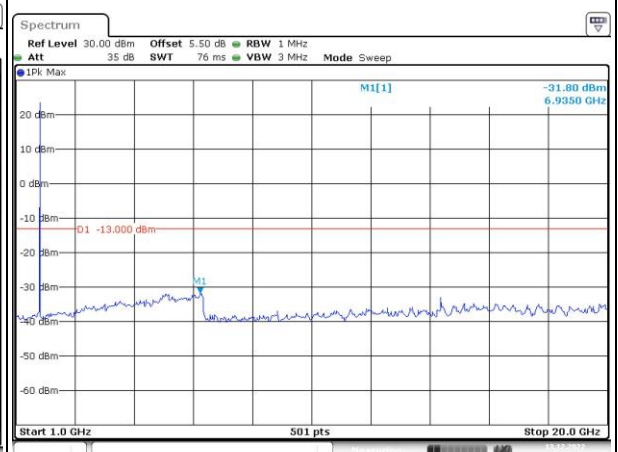
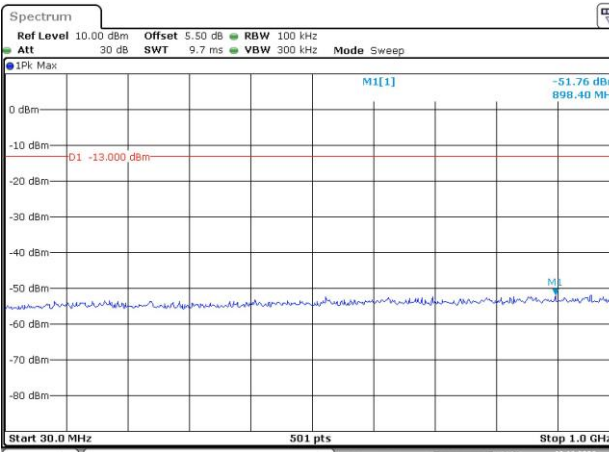
Lowest



Middle



Highest

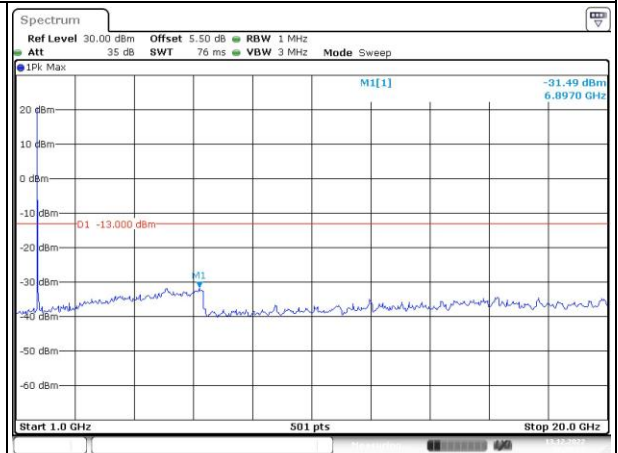
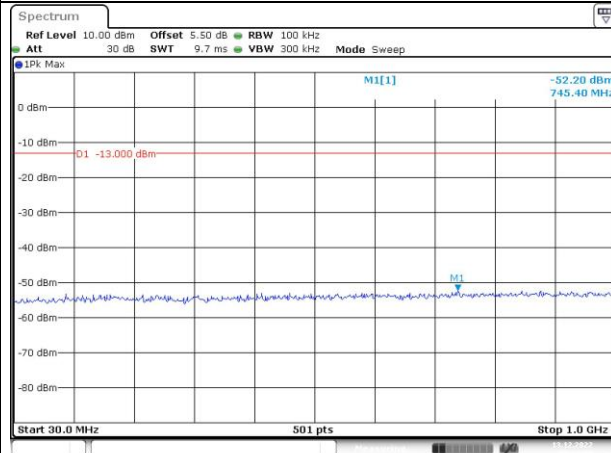


Spurious Emissions at Antenna Terminal

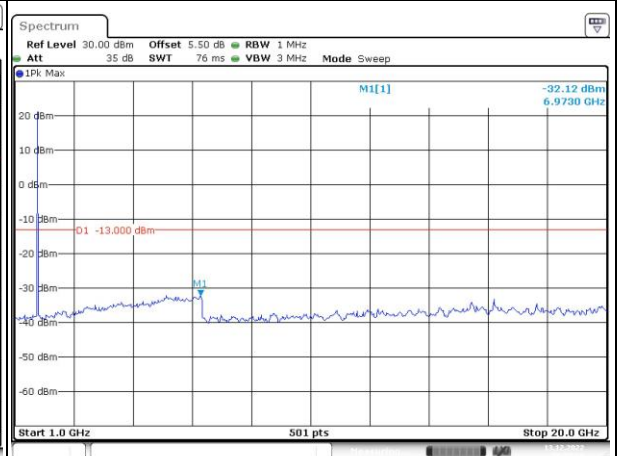
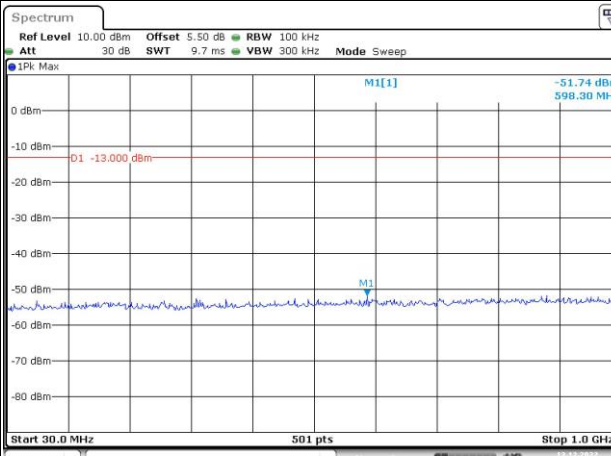
Channel

3MHz Bandwidth QPSK

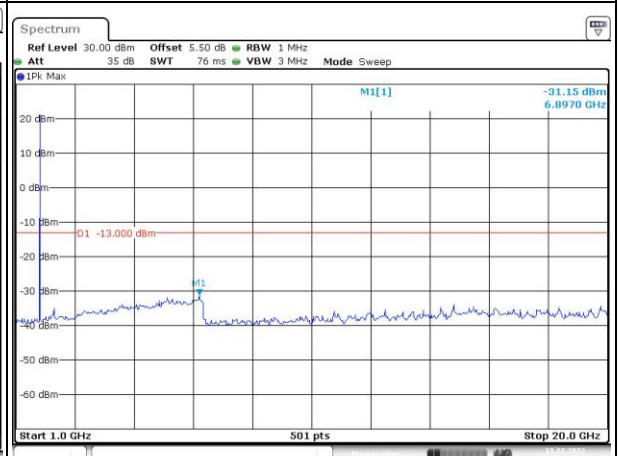
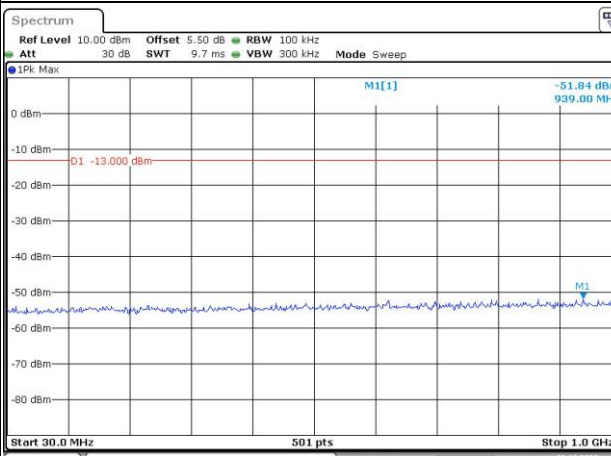
Lowest



Middle



Highest

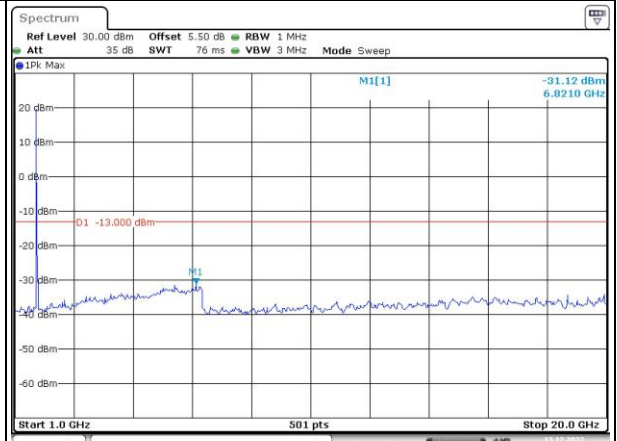
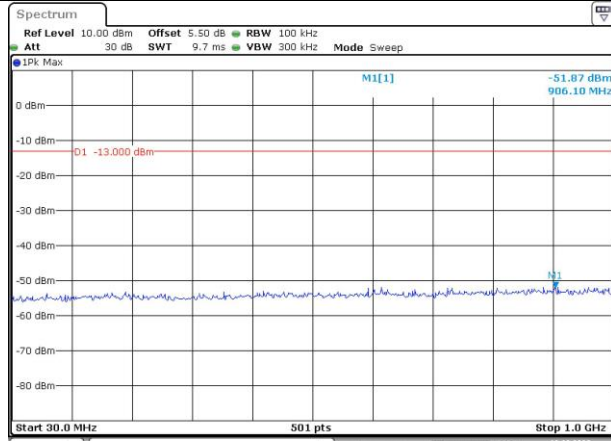


Spurious Emissions at Antenna Terminal

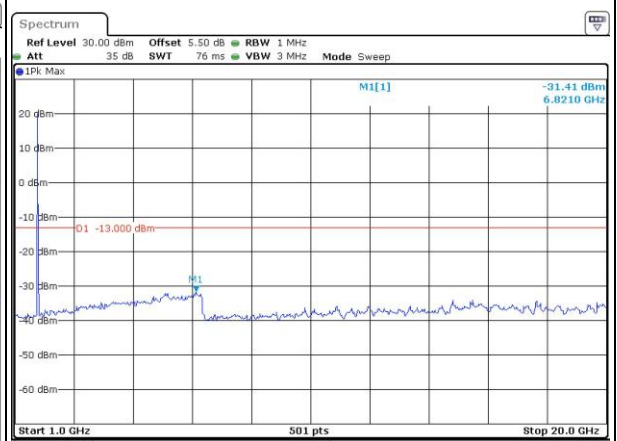
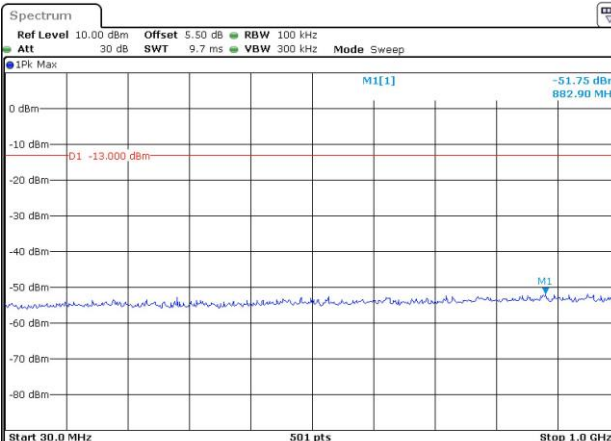
Channel

5MHz Bandwidth QPSK

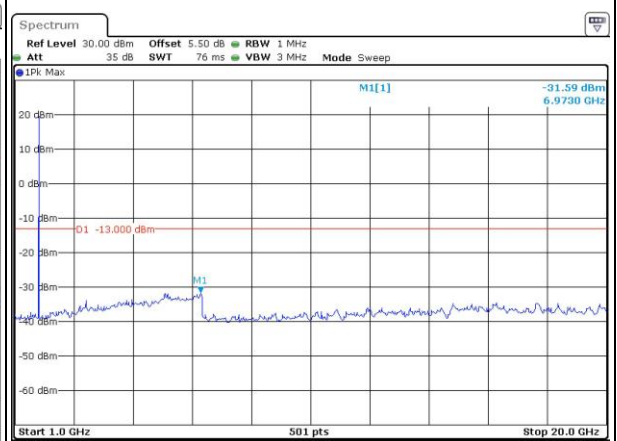
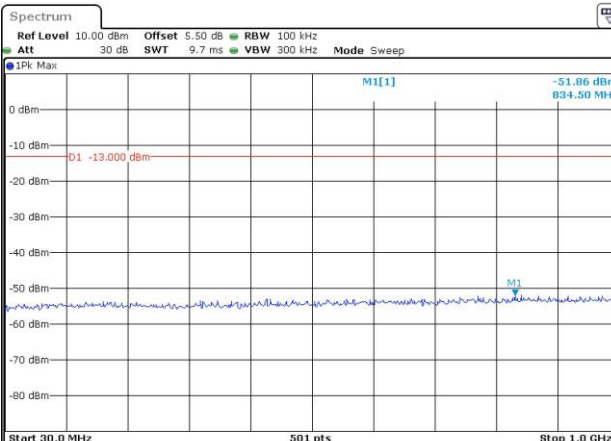
Lowest



Middle



Highest

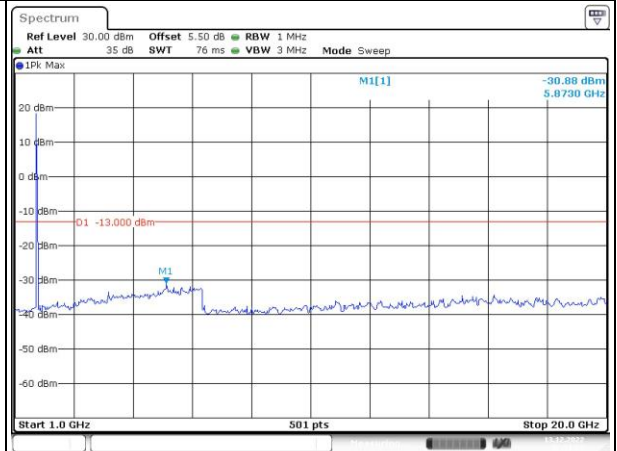
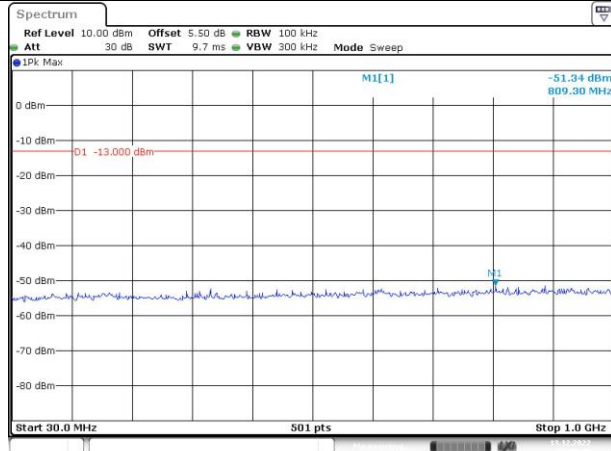


Spurious Emissions at Antenna Terminal

Channel

10MHz Bandwidth QPSK

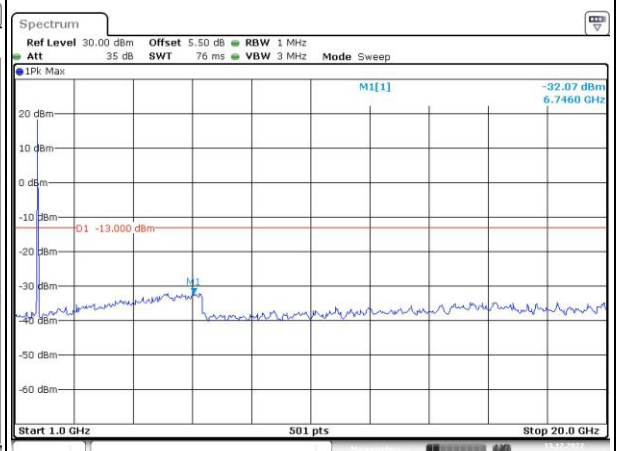
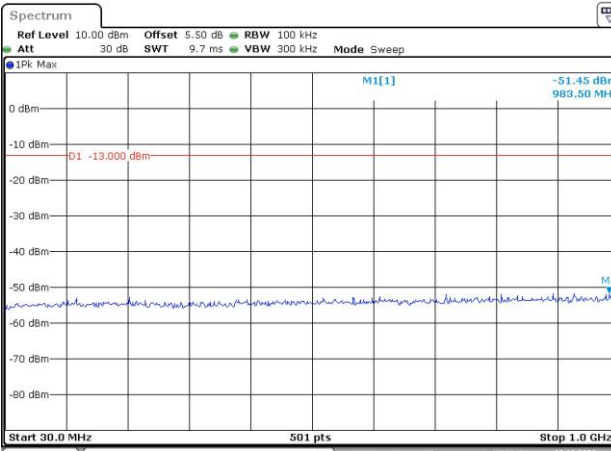
Lowest



Date: 13, DEC, 2022 07:30:49

Date: 13, DEC, 2022 07:31:22

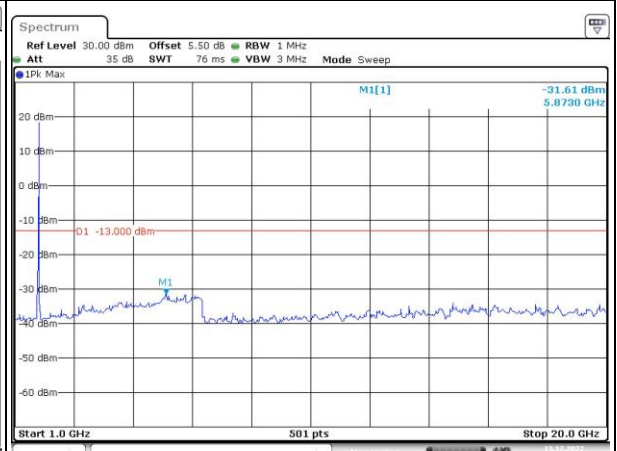
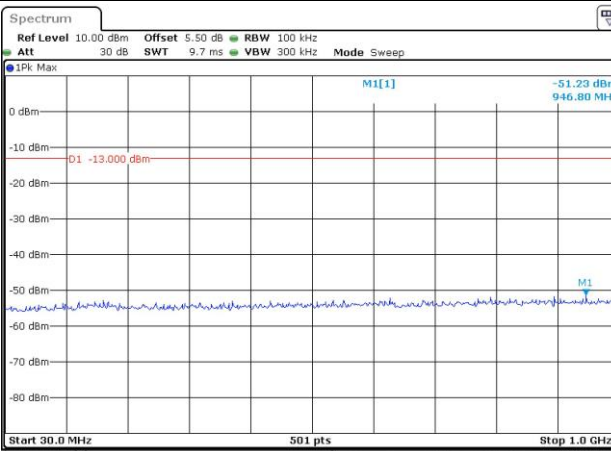
Middle



Date: 13, DEC, 2022 07:31:55

Date: 13, DEC, 2022 07:32:25

Highest



Date: 13, DEC, 2022 07:33:01

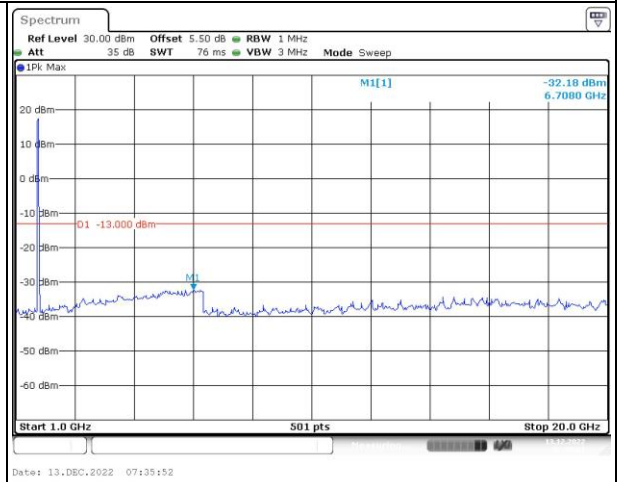
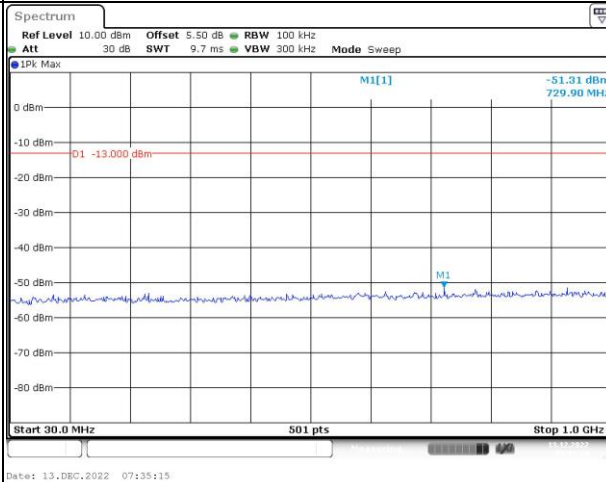
Date: 13, DEC, 2022 07:33:31

Spurious Emissions at Antenna Terminal

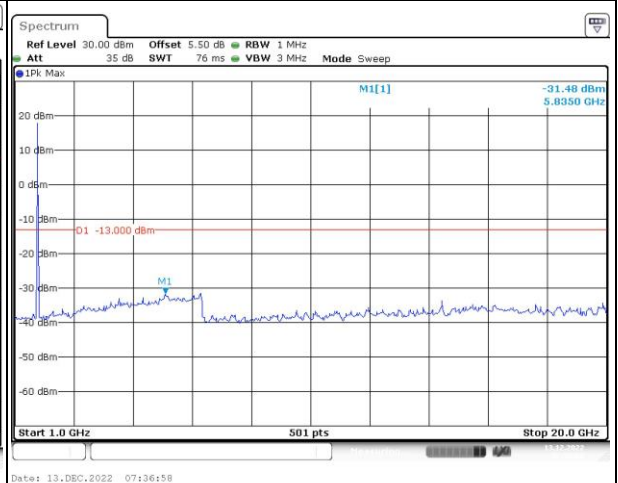
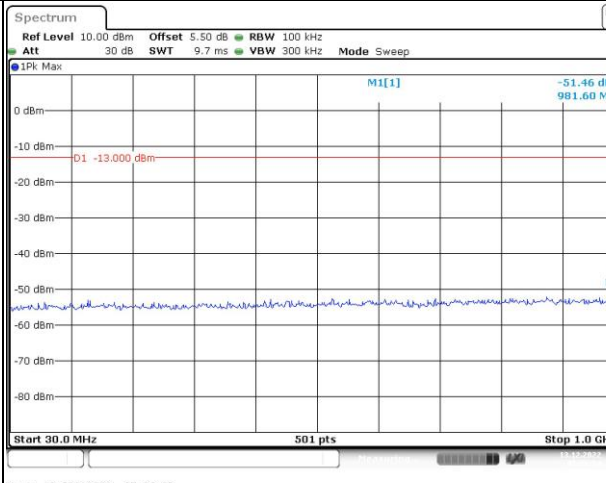
Channel

15MHz Bandwidth QPSK

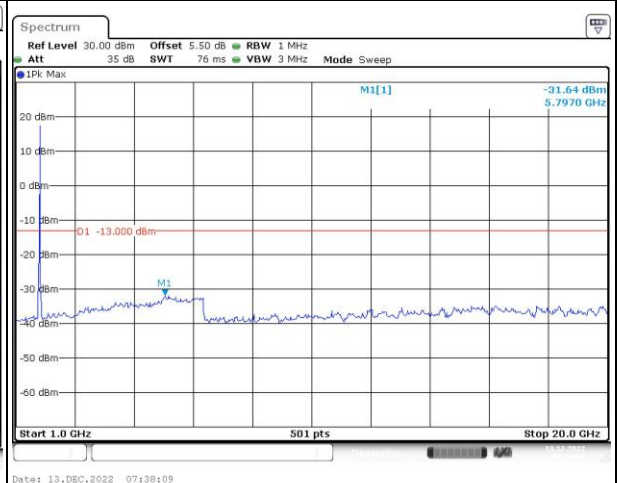
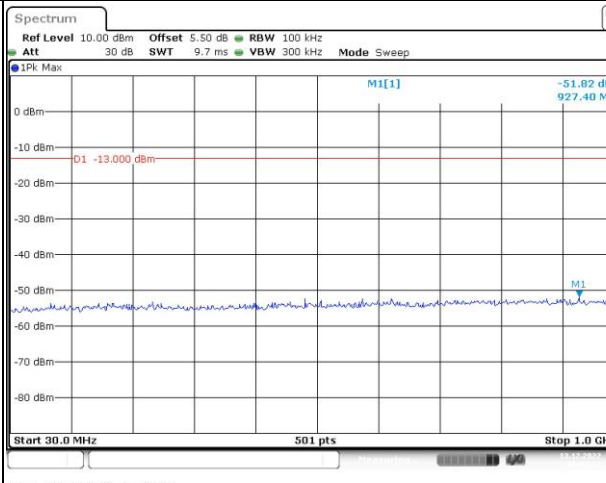
Lowest



Middle



Highest

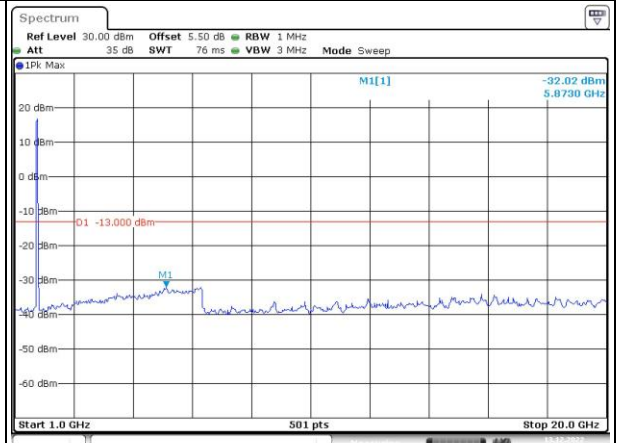
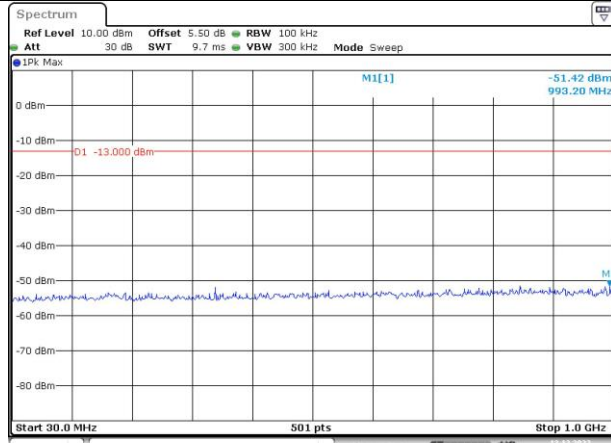


Spurious Emissions at Antenna Terminal

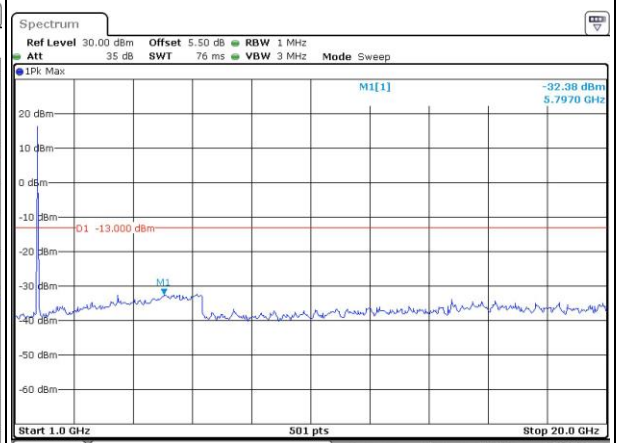
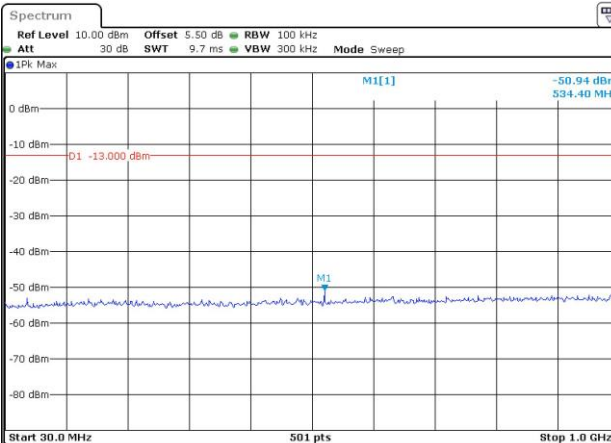
Channel

20MHz Bandwidth QPSK

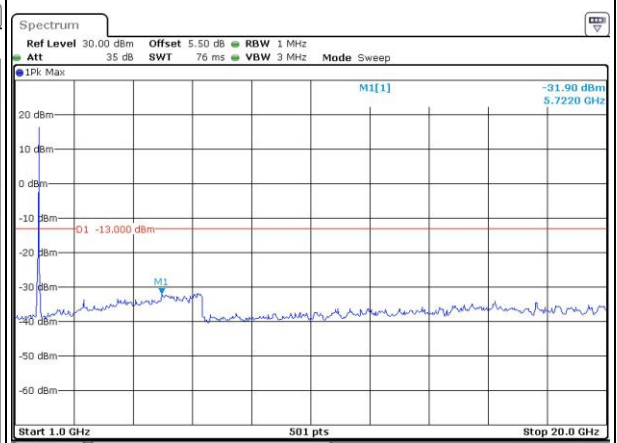
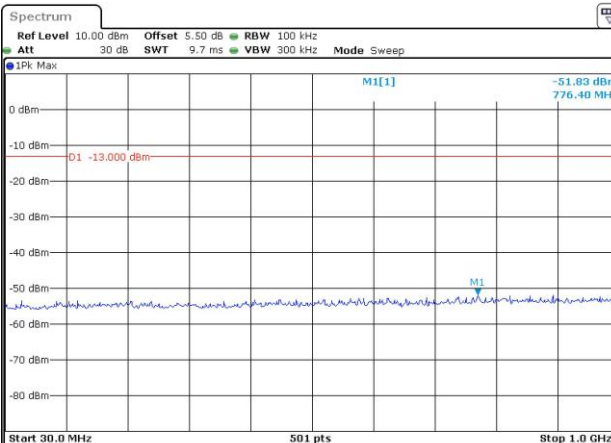
Lowest



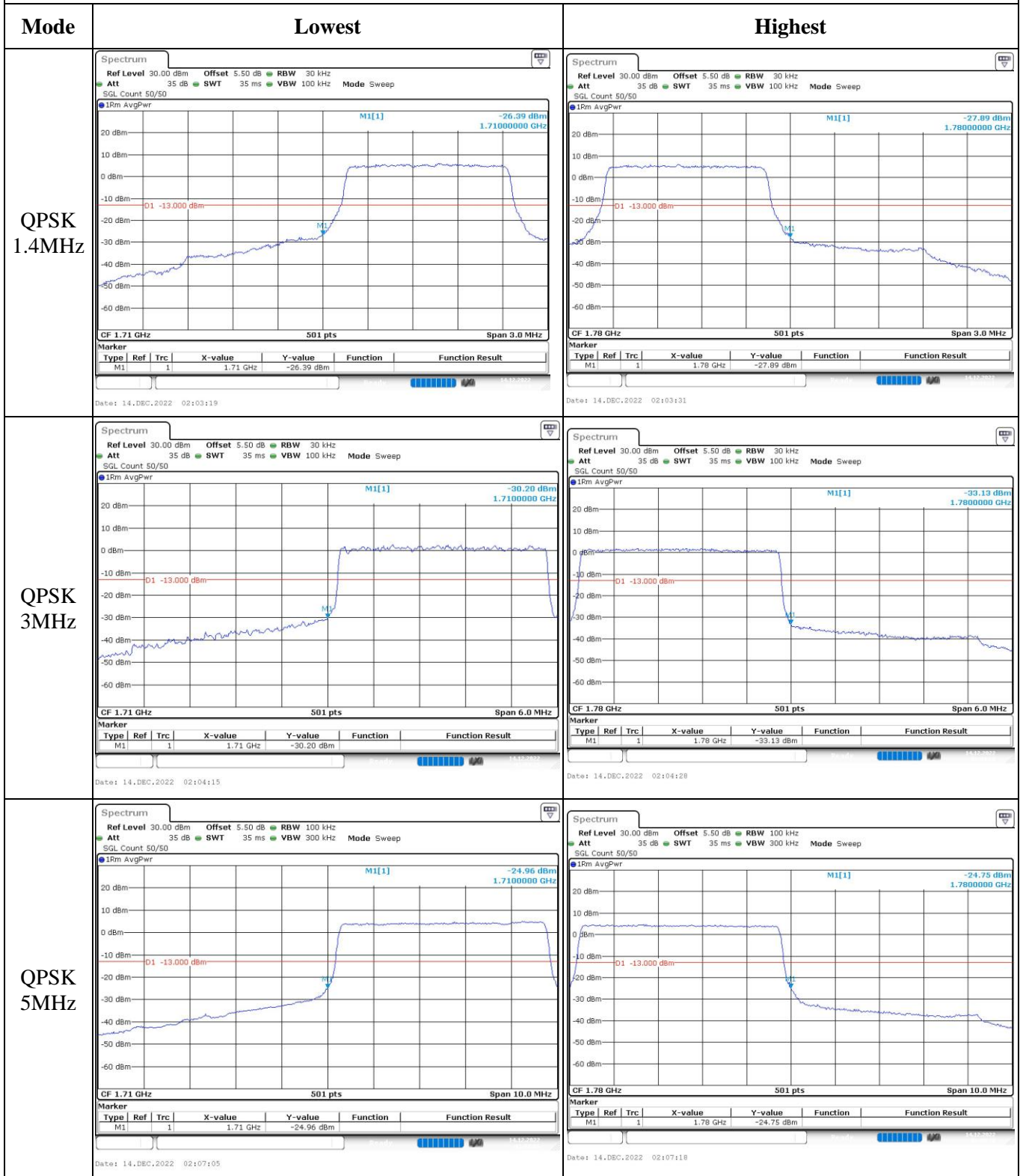
iddle



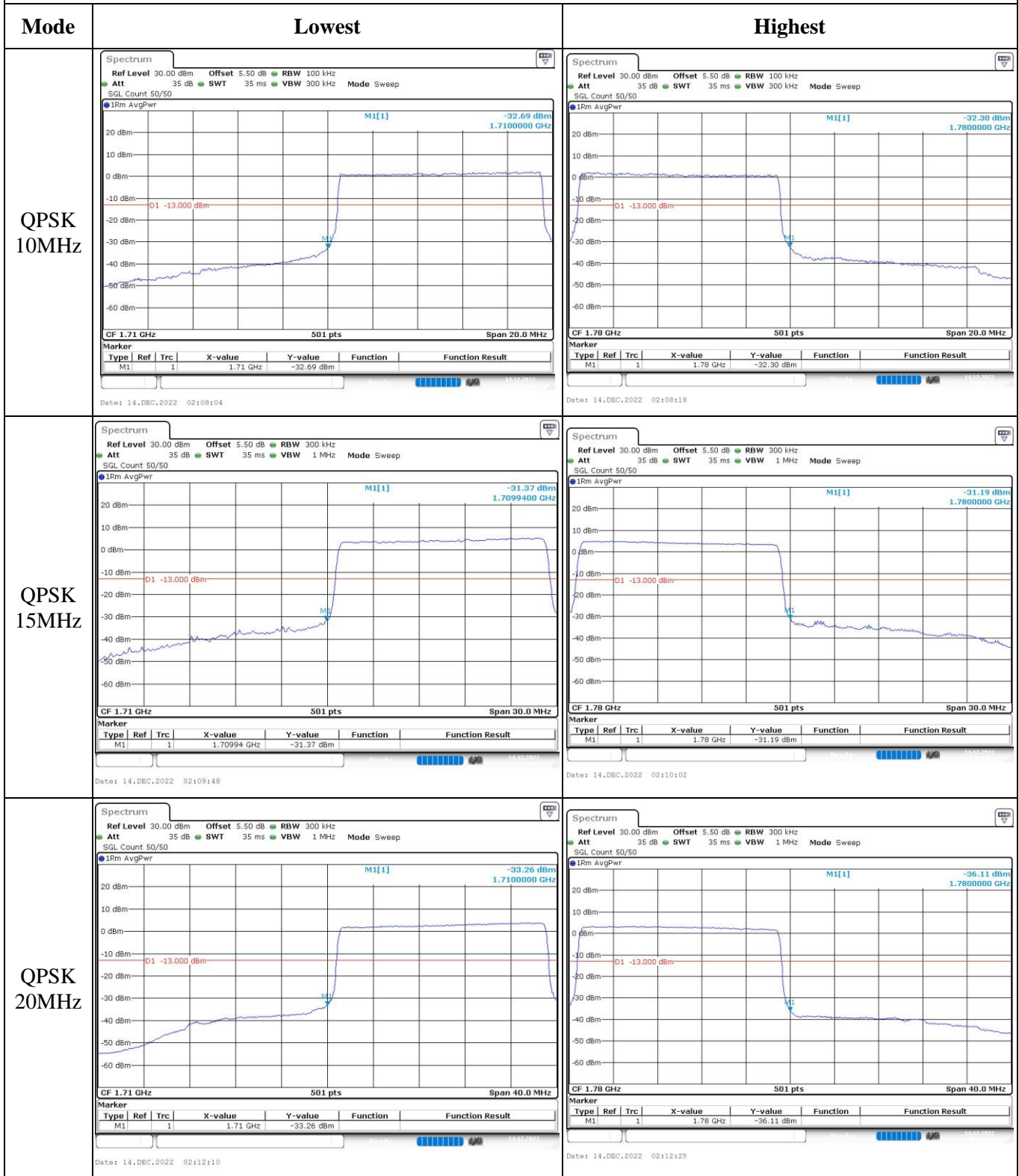
Highest



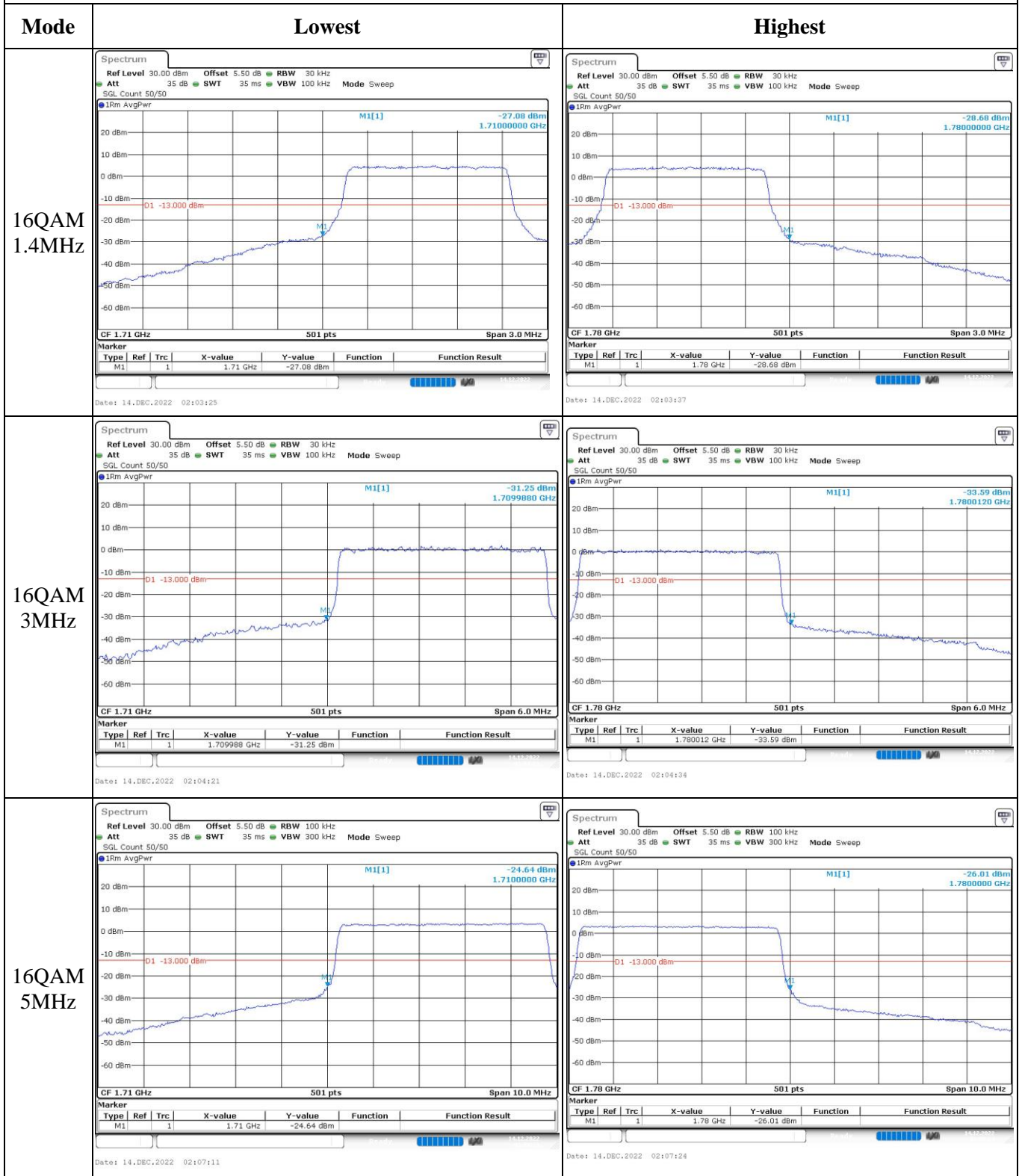
Out of band emission, Band Edge



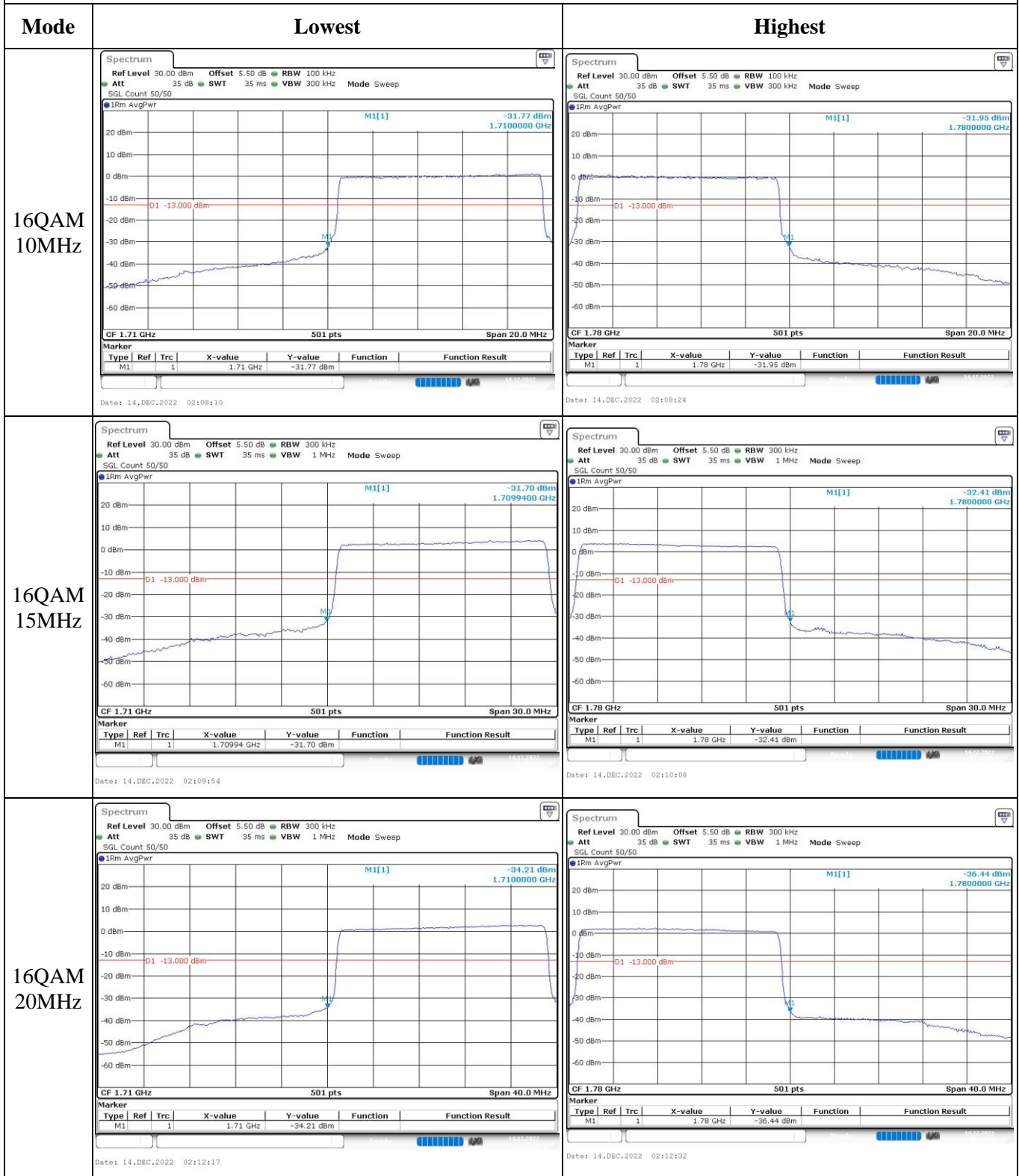
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.15 Radiated Spurious Emissions

Serial Number:	ITSA	Test Date:	2022/12/26~2022/12/28
Test Site:	966-1, 966-2	Test Mode:	Transmitting
Tester:	Carl Xue, coco Tian	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21~23.3	Relative Humidity: (%)	38~53	ATM Pressure: (kPa)	101.4~101.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
R&S	EMI Test Receiver	ESR3	102724	2022/7/15	2023/7/14
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2022/7/17	2023/7/16
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2022/7/17	2023/7/16
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720- 300300	99G1448	2022/4/1	2023/3/31
Agilent	Signal Generator	E8247C	MY43321352	2022/4/1	2023/3/31
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2022/7/15	2023/7/14
MICRO-COAX	Coaxial Cable	UFA210A-1-1200- 70U300	217423-008	2022/8/7	2023/8/6
MICRO-COAX	Coaxial Cable	UFA210A-1-2362- 300300	235780-001	2022/8/7	2023/8/6
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/9	2023/11/8
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720- 300300	99G1448	2022/7/17	2023/7/16
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021/2/5	2024/2/4
AH	Preamplifier	PAM-1840VH	190	2022/11/9	2023/11/8
PASTERNAK	Horn Antenna	PE9850/2F-20	072001	2021/2/5	2024/2/4
PASTERNAK	Horn Antenna	PE9850/2F-20	072002	2021/2/5	2024/2/4
MICRO-COAX	Coaxial Cable	UFB142A-1-2362- 200200	235772-001	2022/8/7	2023/8/6

*** 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 Data:

Please refer to the below table and plots.

Note: The device can be mounted in multiple orientations, test was performed with X,Y, Z Axis according to C63.26 figure 5, the worst orientation was photographed and it's data was recorded.

Cellular Band (PART 22H)**30 MHz-10 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 850 Frequency:824.2MHz								
726.89	H	20.71	-52.07	0.00	0.52	-52.59	-13.00	39.59
719.29	V	20.88	-48.62	0.00	0.49	-49.11	-13.00	36.11
1648.400	H	47.71	-56.62	8.68	0.80	-48.74	-13.00	35.74
1648.400	V	52.82	-51.59	8.68	0.80	-43.71	-13.00	30.71
2472.600	H	48.74	-52.04	9.38	1.00	-43.66	-13.00	30.66
2472.600	V	42.10	-58.63	9.38	1.00	-50.25	-13.00	37.25
3296.800	H	33.55	-63.13	10.32	1.15	-53.96	-13.00	40.96
3296.800	V	35.42	-61.02	10.32	1.15	-51.85	-13.00	38.85
GSM 850 Frequency:836.6MHz								
716.78	H	20.62	-52.36	0.00	0.50	-52.86	-13.00	39.86
709.28	V	21.17	-48.55	0.00	0.52	-49.07	-13.00	36.07
1673.200	H	46.23	-58.08	8.71	0.85	-50.22	-13.00	37.22
1673.200	V	51.63	-52.78	8.71	0.85	-44.92	-13.00	31.92
2509.800	H	47.97	-52.64	9.42	1.01	-44.23	-13.00	31.23
2509.800	V	43.03	-57.59	9.42	1.01	-49.18	-13.00	36.18
3346.400	H	39.18	-57.99	10.34	1.16	-48.81	-13.00	35.81
3346.400	V	36.57	-60.46	10.34	1.16	-51.28	-13.00	38.28
GSM 850 Frequency:848.8MHz								
524.80	H	21.21	-54.13	0.00	0.42	-54.55	-13.00	41.55
726.91	V	21.29	-48.04	0.00	0.52	-48.56	-13.00	35.56
1697.600	H	48.43	-55.86	8.74	0.90	-48.02	-13.00	35.02
1697.600	V	51.53	-52.89	8.74	0.90	-45.05	-13.00	32.05
2546.400	H	45.45	-54.88	9.47	1.01	-46.42	-13.00	33.42
2546.400	V	41.89	-58.39	9.47	1.01	-49.93	-13.00	36.93
3395.200	H	35.97	-61.72	10.36	1.19	-52.55	-13.00	39.55
3395.200	V	33.97	-63.69	10.36	1.19	-54.52	-13.00	41.52

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band 5 Frequency:826.4 MHz								
706.81	H	21.84	-51.34	0.00	0.54	-51.88	-13.00	38.88
716.78	V	21.73	-47.82	0.00	0.50	-48.32	-13.00	35.32
1652.800	H	37.41	-66.92	8.68	0.81	-59.05	-13.00	46.05
1652.800	V	34.81	-69.60	8.68	0.81	-61.73	-13.00	48.73
2479.200	H	36.13	-64.63	9.39	1.01	-56.25	-13.00	43.25
2479.200	V	34.32	-66.41	9.39	1.01	-58.03	-13.00	45.03
3305.600	H	35.11	-61.62	10.32	1.15	-52.45	-13.00	39.45
3305.600	V	34.97	-61.53	10.32	1.15	-52.36	-13.00	39.36
WCDMA Band 5 Frequency:836.6MHz								
716.79	H	21.31	-51.67	0.00	0.50	-52.17	-13.00	39.17
724.36	V	21.97	-47.42	0.00	0.51	-47.93	-13.00	34.93
1673.200	H	37.39	-66.92	8.71	0.85	-59.06	-13.00	46.06
1673.200	V	37.31	-67.10	8.71	0.85	-59.24	-13.00	46.24
2509.800	H	42.09	-58.52	9.42	1.01	-50.11	-13.00	37.11
2509.800	V	34.37	-66.25	9.42	1.01	-57.84	-13.00	44.84
3346.400	H	33.86	-63.31	10.34	1.16	-54.13	-13.00	41.13
3346.400	V	33.80	-63.23	10.34	1.16	-54.05	-13.00	41.05
WCDMA Band 5 Frequency:846.6MHz								
545.41	H	21.58	-53.36	0.00	0.47	-53.83	-13.00	40.83
726.91	V	21.14	-48.19	0.00	0.52	-48.71	-13.00	35.71
1693.200	H	36.25	-68.05	8.73	0.89	-60.21	-13.00	47.21
1693.200	V	37.20	-67.22	8.73	0.89	-59.38	-13.00	46.38
2539.800	H	36.61	-63.77	9.46	1.01	-55.32	-13.00	42.32
2539.800	V	35.49	-64.85	9.46	1.01	-56.40	-13.00	43.40
3386.400	H	35.06	-62.53	10.35	1.18	-53.36	-13.00	40.36
3386.400	V	35.22	-62.32	10.35	1.18	-53.15	-13.00	40.15

PCS Band (PART 24E)

30 MHz-20 GHz:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 1900 Frequency:1850.2MHz								
711.91	H	20.98	-52.10	0.00	0.51	-52.61	-13.00	39.61
727.03	V	21.24	-48.09	0.00	0.52	-48.61	-13.00	35.61
3700.400	H	42.57	-54.75	10.60	1.25	-45.40	-13.00	32.40
3700.400	V	41.32	-55.98	10.60	1.25	-46.63	-13.00	33.63
5550.600	H	38.37	-54.89	11.44	1.49	-44.94	-13.00	31.94
5550.600	V	32.83	-60.27	11.44	1.49	-50.32	-13.00	37.32
GSM 1900 Frequency:1880MHz								
729.58	H	21.69	-51.03	0.00	0.53	-51.56	-13.00	38.56
702.01	V	21.33	-48.55	0.00	0.55	-49.10	-13.00	36.10
3760.000	H	39.32	-57.09	10.66	1.24	-47.67	-13.00	34.67
3760.000	V	40.75	-55.54	10.66	1.24	-46.12	-13.00	33.12
5640.000	H	44.88	-48.57	11.33	1.54	-38.78	-13.00	25.78
5640.000	V	41.86	-51.47	11.33	1.54	-41.68	-13.00	28.68
GSM 1900 Frequency:1909.8MHz								
724.37	H	21.47	-51.36	0.00	0.51	-51.87	-13.00	38.87
709.19	V	21.68	-48.04	0.00	0.52	-48.56	-13.00	35.56
3819.600	H	45.15	-50.71	10.72	1.29	-41.28	-13.00	28.28
3819.600	V	39.64	-56.08	10.72	1.29	-46.65	-13.00	33.65
5729.400	H	45.71	-47.77	11.22	1.59	-38.14	-13.00	25.14
5729.400	V	44.38	-48.98	11.22	1.59	-39.35	-13.00	26.35

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band II, Frequency:1852.4 MHz								
721.96	H	21.48	-51.40	0.00	0.50	-51.90	-13.00	38.90
716.92	V	21.10	-48.45	0.00	0.50	-48.95	-13.00	35.95
3704.800	H	40.53	-56.73	10.60	1.25	-47.38	-13.00	34.38
3704.800	V	38.58	-58.65	10.60	1.25	-49.30	-13.00	36.30
5557.200	H	34.81	-58.47	11.43	1.49	-48.53	-13.00	35.53
5557.200	V	35.37	-57.76	11.43	1.49	-47.82	-13.00	34.82
WCDMA Band II, Frequency:1880 MHz								
729.58	H	21.12	-51.60	0.00	0.53	-52.13	-13.00	39.13
666.07	V	21.38	-49.15	0.00	0.50	-49.65	-13.00	36.65
3760.000	H	39.52	-56.89	10.66	1.24	-47.47	-13.00	34.47
3760.000	V	37.91	-58.38	10.66	1.24	-48.96	-13.00	35.96
5640.000	H	34.53	-58.92	11.33	1.54	-49.13	-13.00	36.13
5640.000	V	45.22	-48.11	11.33	1.54	-38.32	-13.00	25.32
WCDMA Band II, Frequency:1907.6MHz								
721.72	H	21.20	-51.68	0.00	0.50	-52.18	-13.00	39.18
709.19	V	21.23	-48.49	0.00	0.52	-49.01	-13.00	36.01
3815.200	H	39.56	-56.29	10.72	1.29	-46.86	-13.00	33.86
3815.200	V	39.65	-56.04	10.72	1.29	-46.61	-13.00	33.61
5722.800	H	45.79	-47.70	11.23	1.58	-38.05	-13.00	25.05
5722.800	V	34.78	-58.57	11.23	1.58	-48.92	-13.00	35.92

AWS Band(Part 27)

30 MHz-20 GHz:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band IV, Frequency:1712.4 MHz								
726.90	H	21.05	-51.73	0.00	0.52	-52.25	-13.00	39.25
729.45	V	21.33	-47.95	0.00	0.53	-48.48	-13.00	35.48
3424.800	H	35.52	-62.25	10.37	1.17	-53.05	-13.00	40.05
3424.800	V	35.50	-62.24	10.37	1.17	-53.04	-13.00	40.04
5137.200	H	40.82	-52.80	11.28	1.46	-42.98	-13.00	29.98
5137.200	V	39.15	-54.35	11.28	1.46	-44.53	-13.00	31.53
WCDMA Band IV, Frequency:1732.6 MHz								
726.80	H	21.20	-51.58	0.00	0.52	-52.10	-13.00	39.10
714.40	V	21.24	-48.37	0.00	0.50	-48.87	-13.00	35.87
3465.200	H	36.11	-61.70	10.39	1.15	-52.46	-13.00	39.46
3465.200	V	35.87	-61.90	10.39	1.15	-52.66	-13.00	39.66
5197.800	H	34.31	-59.82	11.32	1.44	-49.94	-13.00	36.94
5197.800	V	34.78	-59.20	11.32	1.44	-49.32	-13.00	36.32
WCDMA Band IV, Frequency:1752.6MHz								
711.90	H	21.49	-51.59	0.00	0.51	-52.10	-13.00	39.10
706.90	V	21.31	-48.46	0.00	0.54	-49.00	-13.00	36.00
3505.200	H	36.42	-61.41	10.41	1.18	-52.18	-13.00	39.18
3505.200	V	35.61	-62.16	10.41	1.18	-52.93	-13.00	39.93
5257.800	H	37.23	-56.50	11.35	1.47	-46.62	-13.00	33.62
5257.800	V	34.52	-58.99	11.35	1.47	-49.11	-13.00	36.11

LTE Bands:
(The Worst modulation and bandwidth was below)

LTE Band 2 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1850.7 MHz								
729.45	H	21.24	-51.49	0.00	0.53	-52.02	-13.00	39.02
701.88	V	21.58	-48.30	0.00	0.55	-48.85	-13.00	35.85
3701.400	H	34.55	-62.76	10.60	1.25	-53.41	-13.00	40.41
3701.400	V	34.61	-62.68	10.60	1.25	-53.33	-13.00	40.33
5552.100	H	34.41	-58.86	11.44	1.49	-48.91	-13.00	35.91
5552.100	V	34.54	-58.56	11.44	1.49	-48.61	-13.00	35.61
QPSK, Frequency: 1880 MHz								
722.51	H	21.85	-51.02	0.00	0.50	-51.52	-13.00	38.52
732.69	V	20.51	-48.70	0.00	0.54	-49.24	-13.00	36.24
3760.000	H	34.83	-61.58	10.66	1.24	-52.16	-13.00	39.16
3760.000	V	34.85	-61.44	10.66	1.24	-52.02	-13.00	39.02
5640.000	H	33.97	-59.48	11.33	1.54	-49.69	-13.00	36.69
5640.000	V	34.18	-59.15	11.33	1.54	-49.36	-13.00	36.36
QPSK, Frequency: 1909.3 MHz								
721.83	H	21.32	-51.56	0.00	0.50	-52.06	-13.00	39.06
726.90	V	22.23	-47.10	0.00	0.52	-47.62	-13.00	34.62
3818.600	H	35.06	-60.80	10.72	1.29	-51.37	-13.00	38.37
3818.600	V	35.27	-60.44	10.72	1.29	-51.01	-13.00	38.01
5727.900	H	35.83	-57.65	11.23	1.59	-48.01	-13.00	35.01
5727.900	V	34.38	-58.98	11.23	1.59	-49.34	-13.00	36.34

LTE Band 4 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1710.7 MHz								
557.10	H	21.34	-53.37	0.00	0.48	-53.85	-13.00	40.85
727.03	V	21.78	-47.55	0.00	0.52	-48.07	-13.00	35.07
3421.400	H	39.52	-58.24	10.37	1.17	-49.04	-13.00	36.04
3421.400	V	38.73	-59.00	10.37	1.17	-49.80	-13.00	36.80
5132.100	H	34.74	-58.83	11.28	1.47	-49.02	-13.00	36.02
5132.100	V	34.25	-59.21	11.28	1.47	-49.40	-13.00	36.40
QPSK, Frequency: 1732.5 MHz								
729.58	H	21.71	-51.01	0.00	0.53	-51.54	-13.00	38.54
727.03	V	21.29	-48.04	0.00	0.52	-48.56	-13.00	35.56
3465.000	H	37.64	-60.17	10.39	1.15	-50.93	-13.00	37.93
3465.000	V	39.47	-58.30	10.39	1.15	-49.06	-13.00	36.06
5197.500	H	35.22	-58.91	11.32	1.44	-49.03	-13.00	36.03
5197.500	V	34.27	-59.71	11.32	1.44	-49.83	-13.00	36.83
QPSK, Frequency: 1754.3MHz								
729.58	H	21.25	-51.47	0.00	0.53	-52.00	-13.00	39.00
709.42	V	22.02	-47.69	0.00	0.52	-48.21	-13.00	35.21
3508.600	H	38.26	-59.56	10.41	1.19	-50.34	-13.00	37.34
3508.600	V	37.44	-60.32	10.41	1.19	-51.10	-13.00	38.10
5262.900	H	34.82	-58.88	11.36	1.47	-48.99	-13.00	35.99
5262.900	V	34.56	-58.91	11.36	1.47	-49.02	-13.00	36.02

LTE Band 5(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 824.7 MHz								
638.53	H	21.07	-52.58	0.00	0.52	-53.10	-13.00	40.10
724.35	V	21.25	-48.14	0.00	0.51	-48.65	-13.00	35.65
1649.400	H	45.61	-58.72	8.68	0.80	-50.84	-13.00	37.84
1649.400	V	43.20	-61.21	8.68	0.80	-53.33	-13.00	40.33
2474.100	H	40.52	-60.26	9.38	1.00	-51.88	-13.00	38.88
2474.100	V	36.10	-64.63	9.38	1.00	-56.25	-13.00	43.25
3298.800	H	34.89	-61.79	10.32	1.15	-52.62	-13.00	39.62
3298.800	V	34.78	-61.66	10.32	1.15	-52.49	-13.00	39.49
QPSK, Frequency: 836.5 MHz								
729.45	H	21.10	-51.63	0.00	0.53	-52.16	-13.00	39.16
704.34	V	20.85	-48.98	0.00	0.55	-49.53	-13.00	36.53
1673.000	H	47.58	-56.73	8.71	0.85	-48.87	-13.00	35.87
1673.000	V	45.31	-59.10	8.71	0.85	-51.24	-13.00	38.24
2509.500	H	39.64	-60.97	9.42	1.01	-52.56	-13.00	39.56
2509.500	V	36.42	-64.20	9.42	1.01	-55.79	-13.00	42.79
3346.000	H	34.91	-62.25	10.34	1.16	-53.07	-13.00	40.07
3346.000	V	33.79	-63.23	10.34	1.16	-54.05	-13.00	41.05
QPSK, Frequency: 848.3 MHz								
719.30	H	20.86	-52.07	0.00	0.49	-52.56	-13.00	39.56
726.89	V	21.41	-47.92	0.00	0.52	-48.44	-13.00	35.44
1696.600	H	47.33	-56.96	8.74	0.89	-49.11	-13.00	36.11
1696.600	V	49.38	-55.04	8.74	0.89	-47.19	-13.00	34.19
2544.900	H	41.02	-59.32	9.47	1.01	-50.86	-13.00	37.86
2544.900	V	39.04	-61.26	9.47	1.01	-52.80	-13.00	39.80
3393.200	H	35.59	-62.08	10.36	1.19	-52.91	-13.00	39.91
3393.200	V	35.34	-62.29	10.36	1.19	-53.12	-13.00	40.12

LTE Band 7 (30MHz-26.5GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2502.5 MHz								
705.90	H	21.12	-52.08	0.00	0.54	-52.62	-25.00	27.62
704.93	V	20.98	-48.83	0.00	0.55	-49.38	-25.00	24.38
5005.000	H	49.51	-43.45	11.20	1.47	-33.72	-25.00	8.72
5005.000	V	48.52	-44.30	11.20	1.47	-34.57	-25.00	9.57
7507.500	H	41.05	-48.74	10.90	1.95	-39.79	-25.00	14.79
7507.500	V	40.87	-49.42	10.90	1.95	-40.47	-25.00	15.47
QPSK, Frequency:2535 MHz								
691.36	H	20.79	-52.58	0.00	0.54	-53.12	-25.00	28.12
717.53	V	21.09	-48.45	0.00	0.49	-48.94	-25.00	23.94
5070.000	H	51.90	-41.29	11.24	1.47	-31.52	-25.00	6.52
5070.000	V	49.81	-43.28	11.24	1.47	-33.51	-25.00	8.51
7605.000	H	42.58	-46.89	10.88	2.01	-38.02	-25.00	13.02
7605.000	V	40.38	-49.81	10.88	2.01	-40.94	-25.00	15.94
QPSK, Frequency: 2567.5 MHz								
728.19	H	20.87	-51.88	0.00	0.52	-52.40	-25.00	27.40
719.47	V	21.15	-48.35	0.00	0.49	-48.84	-25.00	23.84
5135.000	H	52.34	-41.26	11.28	1.47	-31.45	-25.00	6.45
5135.000	V	51.84	-41.65	11.28	1.47	-31.84	-25.00	6.84
7702.500	H	40.46	-49.06	10.86	1.97	-40.17	-25.00	15.17
7702.500	V	39.30	-50.88	10.86	1.97	-41.99	-25.00	16.99

LTE Band 12 (30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 699.7 MHz								
722.37	H	20.92	-51.95	0.00	0.50	-52.45	-13.00	39.45
562.48	V	21.22	-50.45	0.00	0.47	-50.92	-13.00	37.92
1399.400	H	44.35	-59.35	8.22	0.71	-51.84	-13.00	38.84
1399.400	V	40.89	-62.86	8.22	0.71	-55.35	-13.00	42.35
2099.100	H	40.03	-61.85	9.16	0.91	-53.60	-13.00	40.60
2099.100	V	40.06	-61.77	9.16	0.91	-53.52	-13.00	40.52
2798.800	H	36.51	-63.42	9.88	1.04	-54.58	-13.00	41.58
2798.800	V	36.42	-63.38	9.88	1.04	-54.54	-13.00	41.54
QPSK, Frequency: 707.5 MHz								
582.94	H	20.64	-53.56	0.00	0.46	-54.02	-13.00	41.02
649.81	V	21.28	-49.55	0.00	0.52	-50.07	-13.00	37.07
1415.000	H	40.79	-62.88	8.26	0.72	-55.34	-13.00	42.34
1415.000	V	43.59	-60.13	8.26	0.72	-52.59	-13.00	39.59
2122.500	H	36.78	-65.21	9.17	0.92	-56.96	-13.00	43.96
2122.500	V	35.64	-66.33	9.17	0.92	-58.08	-13.00	45.08
2830.000	H	36.21	-63.59	9.93	1.06	-54.72	-13.00	41.72
2830.000	V	35.88	-63.85	9.93	1.06	-54.98	-13.00	41.98
QPSK, Frequency: 715.3 MHz								
560.54	H	20.95	-53.69	0.00	0.47	-54.16	-13.00	41.16
507.25	V	21.89	-49.70	0.00	0.45	-50.15	-13.00	37.15
1430.600	H	44.23	-59.40	8.31	0.73	-51.82	-13.00	38.82
1430.600	V	44.73	-58.96	8.31	0.73	-51.38	-13.00	38.38
2145.900	H	41.34	-60.76	9.19	0.93	-52.50	-13.00	39.50
2145.900	V	40.87	-61.24	9.19	0.93	-52.98	-13.00	39.98
2861.200	H	40.56	-59.09	9.98	1.07	-50.18	-13.00	37.18
2861.200	V	39.46	-60.21	9.98	1.07	-51.30	-13.00	38.30

LTE Band 17 (30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 706.5 MHz								
549.16	H	20.94	-53.92	0.00	0.47	-54.39	-13.00	41.39
578.78	V	21.05	-50.65	0.00	0.46	-51.11	-13.00	38.11
1413.000	H	40.25	-63.42	8.26	0.72	-55.88	-13.00	42.88
1413.000	V	40.37	-63.35	8.26	0.72	-55.81	-13.00	42.81
2119.500	H	36.24	-65.73	9.17	0.92	-57.48	-13.00	44.48
2119.500	V	35.81	-66.14	9.17	0.92	-57.89	-13.00	44.89
2826.000	H	36.56	-63.25	9.92	1.06	-54.39	-13.00	41.39
2826.000	V	36.43	-63.31	9.92	1.06	-54.45	-13.00	41.45
QPSK, Frequency: 710 MHz								
629.55	H	21.12	-52.58	0.00	0.48	-53.06	-13.00	40.06
633.98	V	20.79	-50.32	0.00	0.51	-50.83	-13.00	37.83
1420.000	H	42.34	-61.32	8.28	0.73	-53.77	-13.00	40.77
1420.000	V	40.71	-63.00	8.28	0.73	-55.45	-13.00	42.45
2130.000	H	37.67	-64.35	9.18	0.92	-56.09	-13.00	43.09
2130.000	V	36.22	-65.79	9.18	0.92	-57.53	-13.00	44.53
2840.000	H	36.06	-63.69	9.94	1.06	-54.81	-13.00	41.81
2840.000	V	35.81	-63.90	9.94	1.06	-55.02	-13.00	42.02
QPSK, Frequency: 713.5 MHz								
595.24	H	20.78	-53.17	0.00	0.51	-53.68	-13.00	40.68
597.33	V	21.11	-50.62	0.00	0.51	-51.13	-13.00	38.13
1427.000	H	41.34	-62.30	8.30	0.73	-54.73	-13.00	41.73
1427.000	V	42.69	-61.00	8.30	0.73	-53.43	-13.00	40.43
2140.500	H	36.35	-65.72	9.18	0.93	-57.47	-13.00	44.47
2140.500	V	36.36	-65.72	9.18	0.93	-57.47	-13.00	44.47
2854.000	H	35.95	-63.74	9.97	1.07	-54.84	-13.00	41.84
2854.000	V	36.91	-62.77	9.97	1.07	-53.87	-13.00	40.87

LTE Band 38 (30MHz-26.5GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2572.5 MHz								
723.34	H	21.43	-51.42	0.00	0.50	-51.92	-25.00	26.92
710.74	V	21.13	-48.56	0.00	0.52	-49.08	-25.00	24.08
5145.000	H	45.34	-48.34	11.29	1.44	-38.49	-25.00	13.49
5145.000	V	45.77	-47.80	11.29	1.44	-37.95	-25.00	12.95
7717.500	H	38.11	-51.40	10.86	1.99	-42.53	-25.00	17.53
7717.500	V	39.10	-51.03	10.86	1.99	-42.16	-25.00	17.16
QPSK, Frequency:2595 MHz								
786.33	H	21.18	-50.40	0.00	0.57	-50.97	-25.00	25.97
726.25	V	20.86	-48.49	0.00	0.52	-49.01	-25.00	24.01
5190.000	H	46.04	-48.03	11.31	1.44	-38.16	-25.00	13.16
5190.000	V	46.58	-47.34	11.31	1.44	-37.47	-25.00	12.47
7785.000	H	40.03	-49.46	10.84	1.99	-40.61	-25.00	15.61
7785.000	V	37.86	-52.06	10.84	1.99	-43.21	-25.00	18.21
QPSK, Frequency: 2617.5 MHz								
728.19	H	20.90	-51.85	0.00	0.52	-52.37	-25.00	27.37
728.19	V	20.76	-48.55	0.00	0.52	-49.07	-25.00	24.07
5235.000	H	49.16	-44.74	11.34	1.46	-34.86	-25.00	9.86
5235.000	V	42.61	-51.10	11.34	1.46	-41.22	-25.00	16.22
7852.500	H	35.12	-54.07	10.83	2.03	-45.27	-25.00	20.27
7852.500	V	34.06	-55.52	10.83	2.03	-46.72	-25.00	21.72

LTE Band 40 (30MHz-25GHz):**Lower:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2307.5MHz								
708.81	H	21.28	-51.86	0.00	0.53	-52.39	-40.00	12.39
727.22	V	21.14	-48.19	0.00	0.52	-48.71	-40.00	8.71
4615.000	H	40.29	-55.07	10.74	1.41	-45.74	-40.00	5.74
4615.000	V	41.89	-53.33	10.74	1.41	-44.00	-40.00	4.00
6922.500	H	40.31	-50.71	11.22	1.88	-41.37	-40.00	1.37
6922.500	V	36.37	-54.52	11.22	1.88	-45.18	-40.00	5.18
QPSK, Frequency: 2312.5 MHz								
723.34	H	20.89	-51.96	0.00	0.50	-52.46	-40.00	12.46
706.87	V	21.26	-48.51	0.00	0.54	-49.05	-40.00	9.05
4625.000	H	41.62	-53.67	10.75	1.41	-44.33	-40.00	4.33
4625.000	V	40.37	-54.80	10.75	1.41	-45.46	-40.00	5.46
6937.500	H	40.09	-50.89	11.21	1.90	-41.58	-40.00	1.58
6937.500	V	40.11	-50.73	11.21	1.90	-41.42	-40.00	1.42

Upper:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2352.5MHz								
723.34	H	20.89	-51.96	0.00	0.50	-52.46	-40.00	12.46
706.87	V	21.26	-48.51	0.00	0.54	-49.05	-40.00	9.05
4705.000	H	44.03	-50.75	10.85	1.41	-41.31	-40.00	1.31
4705.000	V	42.29	-52.51	10.85	1.41	-43.07	-40.00	3.07
7057.500	H	39.66	-50.35	11.17	1.92	-41.10	-40.00	1.10
7057.500	V	38.02	-51.88	11.17	1.92	-42.63	-40.00	2.63
QPSK, Frequency: 2357.5 MHz								
725.28	H	21.15	-51.66	0.00	0.51	-52.17	-40.00	12.17
723.43	V	21.45	-47.96	0.00	0.50	-48.46	-40.00	8.46
4715.000	H	40.93	-53.78	10.86	1.41	-44.33	-40.00	4.33
4715.000	V	42.37	-52.34	10.86	1.41	-42.89	-40.00	2.89
7072.500	H	39.25	-50.55	11.16	1.91	-41.30	-40.00	1.30
7072.500	V	37.38	-52.33	11.16	1.91	-43.08	-40.00	3.08

LTE Band 66(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1710.7 MHz								
727.22	H	20.55	-52.22	0.00	0.52	-52.74	-13.00	39.74
582.83	V	21.22	-50.48	0.00	0.46	-50.94	-13.00	37.94
3421.400	H	35.24	-62.52	10.37	1.17	-53.32	-13.00	40.32
3421.400	V	34.67	-63.06	10.37	1.17	-53.86	-13.00	40.86
5132.100	H	35.26	-58.31	11.28	1.47	-48.50	-13.00	35.50
5132.100	V	35.03	-58.43	11.28	1.47	-48.62	-13.00	35.62
QPSK, Frequency:1745 MHz								
728.19	H	21.80	-50.95	0.00	0.52	-51.47	-13.00	38.47
711.91	V	20.96	-48.70	0.00	0.51	-49.21	-13.00	36.21
3490.000	H	35.67	-62.17	10.40	1.17	-52.94	-13.00	39.94
3490.000	V	35.91	-61.87	10.40	1.17	-52.64	-13.00	39.64
5235.000	H	34.77	-59.13	11.34	1.46	-49.25	-13.00	36.25
5235.000	V	34.56	-59.15	11.34	1.46	-49.27	-13.00	36.27
QPSK, Frequency: 1779.3 MHz								
679.74	H	21.12	-52.31	0.00	0.52	-52.83	-13.00	39.83
615.78	V	21.44	-50.00	0.00	0.48	-50.48	-13.00	37.48
3558.600	H	36.24	-61.43	10.46	1.22	-52.19	-13.00	39.19
3558.600	V	35.20	-62.37	10.46	1.22	-53.13	-13.00	40.13
5337.900	H	34.13	-59.34	11.40	1.47	-49.41	-13.00	36.41
5337.900	V	35.20	-58.13	11.40	1.47	-48.20	-13.00	35.20

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

==== END OF REPORT =====