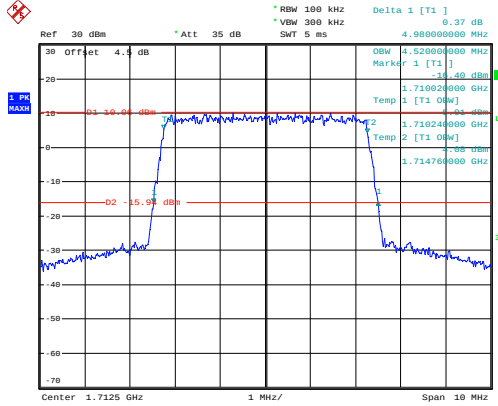
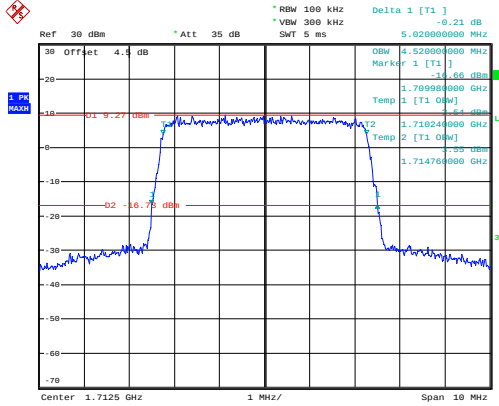
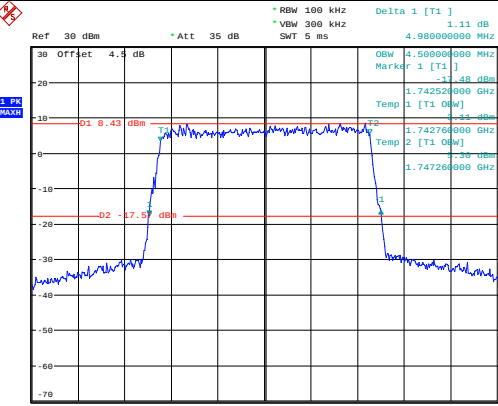
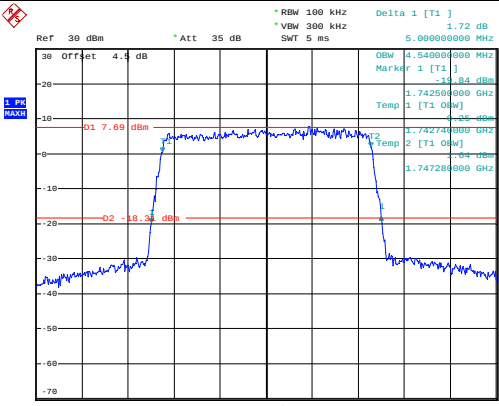
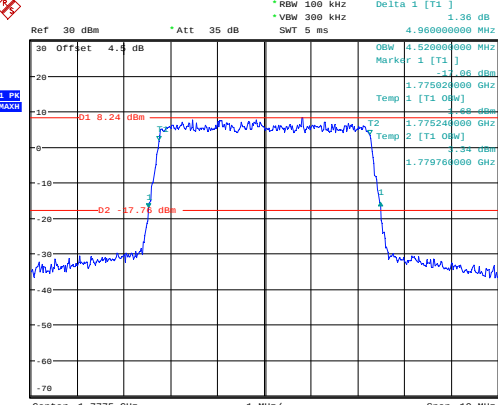
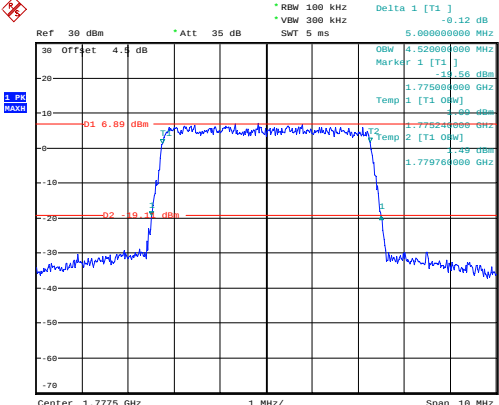


Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest	Ref 30 dBm *Att 35 dB RBW 30 KHz Delta 1 [T1] 0.99 dB *VBW 100 KHz SWT 30 ms 3.024000000 MHz OBW 2.712000000 MHz Marker 1 [T1] -13.11 dBm Temp 1 [T1 Offw] -18.96 dBm Temp 2 [T1 Offw] -7.49 dBm Center 1.7115 GHz 600 kHz/ Span 6 MHz Date: 10.JAN.2023 19:39:51	Ref 30 dBm *Att 35 dB RBW 30 KHz Delta 1 [T1] 0.70 dB *VBW 100 KHz SWT 30 ms 3.000000000 MHz OBW 2.709000000 MHz Marker 1 [T1] -13.13 dBm Temp 1 [T1 Offw] -18.78 dBm Temp 2 [T1 Offw] -7.27 dBm Center 1.7115 GHz 600 kHz/ Span 6 MHz Date: 10.JAN.2023 19:40:05
Middle	Ref 30 dBm *Att 35 dB RBW 30 KHz Delta 1 [T1] 0.14 dB *VBW 100 KHz SWT 30 ms 3.000000000 MHz OBW 2.688000000 MHz Marker 1 [T1] -13.53 dBm Temp 1 [T1 Offw] -19.96 dBm Temp 2 [T1 Offw] -6.04 dBm Center 1.745 GHz 600 kHz/ Span 6 MHz Date: 10.JAN.2023 19:40:21	Ref 30 dBm *Att 35 dB RBW 30 KHz Delta 1 [T1] 0.60 dB *VBW 100 KHz SWT 30 ms 3.012000000 MHz OBW 2.688000000 MHz Marker 1 [T1] -13.48 dBm Temp 1 [T1 Offw] -19.65 dBm Temp 2 [T1 Offw] -6.11 dBm Center 1.745 GHz 600 kHz/ Span 6 MHz Date: 10.JAN.2023 19:40:38
Highest	Ref 30 dBm *Att 35 dB RBW 30 KHz Delta 1 [T1] -0.48 dB *VBW 100 KHz SWT 30 ms 3.000000000 MHz OBW 2.700000000 MHz Marker 1 [T1] -20.00 dBm Temp 1 [T1 Offw] -19.00 dBm Temp 2 [T1 Offw] -5.98 dBm Center 1.7785 GHz 600 kHz/ Span 6 MHz Date: 10.JAN.2023 19:40:54	Ref 30 dBm *Att 35 dB RBW 30 KHz Delta 1 [T1] 0.95 dB *VBW 100 KHz SWT 30 ms 3.000000000 MHz OBW 2.700000000 MHz Marker 1 [T1] -20.74 dBm Temp 1 [T1 Offw] -19.04 dBm Temp 2 [T1 Offw] -5.01 dBm Center 1.7785 GHz 600 kHz/ Span 6 MHz Date: 10.JAN.2023 19:41:11

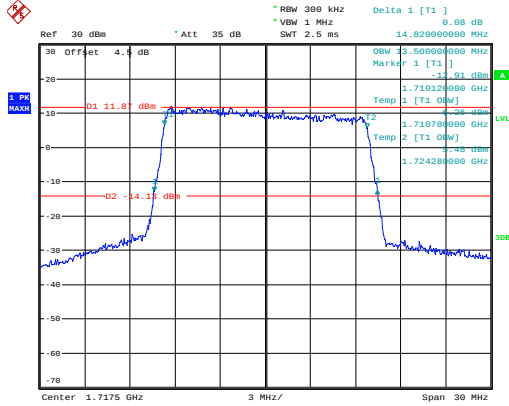
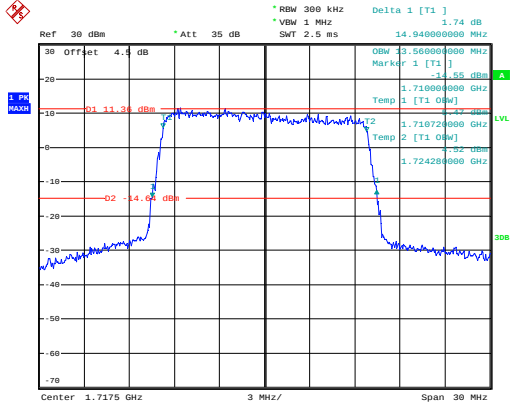
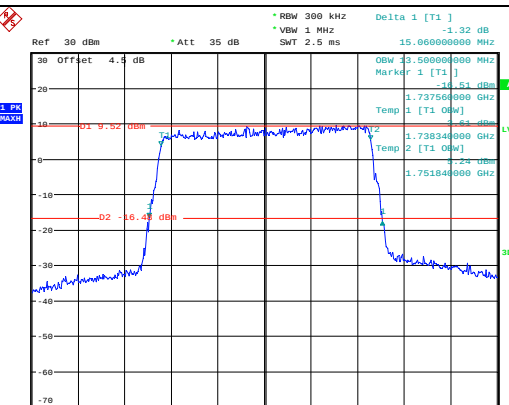
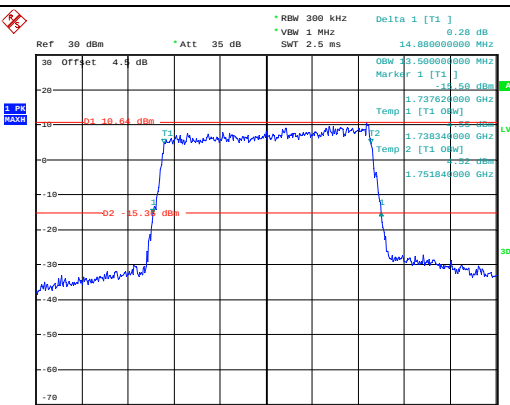
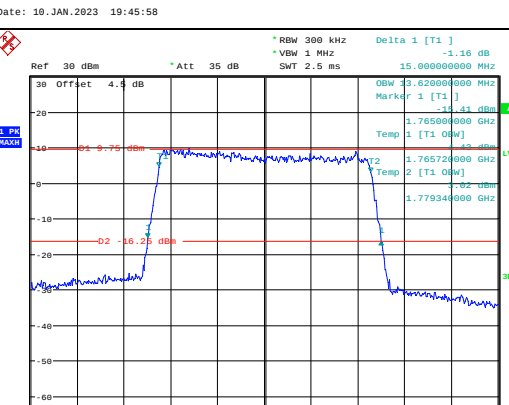
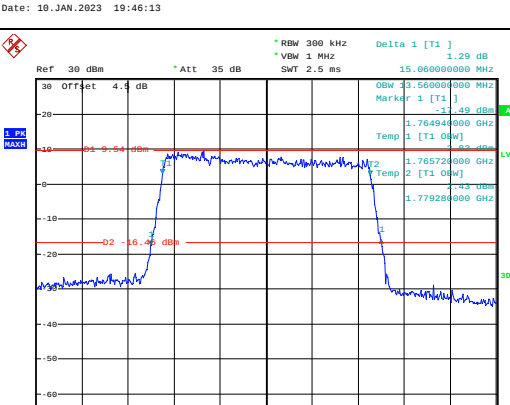
Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest	 Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 100 kHz VBW 300 kHz SWT 5 ms Delta 1 [T1] 0.37 dB OBW 4.520000000 MHz Marker 1 [T1] -15.97 dBm Temp 1 [T1] 1.710020000 GHz Temp 2 [T1] 1.710240000 GHz Temp 3 [T1] 1.714760000 GHz Center 1.7125 GHz 1 MHz/ Span 10 MHz Date: 10.JAN.2023 19:41:34	 Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 100 kHz VBW 300 kHz SWT 5 ms Delta 1 [T1] -0.21 dB OBW 4.520000000 MHz Marker 1 [T1] -16.78 dBm Temp 1 [T1] 1.709980000 GHz Temp 2 [T1] 1.710240000 GHz Temp 3 [T1] 1.714760000 GHz Center 1.7125 GHz 1 MHz/ Span 10 MHz Date: 10.JAN.2023 19:41:55
Middle	 Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 100 kHz VBW 300 kHz SWT 5 ms Delta 1 [T1] 1.11 dB OBW 4.500000000 MHz Marker 1 [T1] -17.57 dBm Temp 1 [T1] 1.742500000 GHz Temp 2 [T1] 1.742760000 GHz Temp 3 [T1] 1.747260000 GHz Center 1.745 GHz 1 MHz/ Span 10 MHz Date: 10.JAN.2023 19:42:12	 Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 100 kHz VBW 300 kHz SWT 5 ms Delta 1 [T1] 1.72 dB OBW 4.540000000 MHz Marker 1 [T1] -18.55 dBm Temp 1 [T1] 1.742500000 GHz Temp 2 [T1] 1.742760000 GHz Temp 3 [T1] 1.747260000 GHz Center 1.745 GHz 1 MHz/ Span 10 MHz Date: 10.JAN.2023 19:42:29
Highest	 Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 100 kHz VBW 300 kHz SWT 5 ms Delta 1 [T1] 1.36 dB OBW 4.520000000 MHz Marker 1 [T1] -17.76 dBm Temp 1 [T1] 1.775000000 GHz Temp 2 [T1] 1.775240000 GHz Temp 3 [T1] 1.779760000 GHz Center 1.7775 GHz 1 MHz/ Span 10 MHz Date: 10.JAN.2023 19:42:48	 Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 100 kHz VBW 300 kHz SWT 5 ms Delta 1 [T1] -0.12 dB OBW 4.520000000 MHz Marker 1 [T1] -18.11 dBm Temp 1 [T1] 1.775000000 GHz Temp 2 [T1] 1.775240000 GHz Temp 3 [T1] 1.779760000 GHz Center 1.7775 GHz 1 MHz/ Span 10 MHz Date: 10.JAN.2023 19:43:06

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 100 kHz VBW 300 kHz SWT 10 ms Delta 1 [T1] 0.00 dB 9.760000000 MHz Marker 1 [T1] -10.97 dBm 1.710120000 GHz Temp 1 [T1 0BW] -10.97 dBm 1.710520000 GHz Temp 2 [T1 0BW] -10.97 dBm 1.719480000 GHz Center 1.715 GHz 2 MHz/ Span 20 MHz Date: 10.JAN.2023 19:43:29	Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 100 kHz VBW 300 kHz SWT 10 ms Delta 1 [T1] 0.71 dB 9.760000000 MHz Marker 1 [T1] -10.97 dBm 1.710080000 GHz Temp 1 [T1 0BW] -10.97 dBm 1.710520000 GHz Temp 2 [T1 0BW] -10.97 dBm 1.719480000 GHz Center 1.715 GHz 2 MHz/ Span 20 MHz Date: 10.JAN.2023 19:43:44
Middle	Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 100 kHz VBW 300 kHz SWT 10 ms Delta 1 [T1] -0.70 dB 9.800000000 MHz Marker 1 [T1] -10.74 dBm 1.740160000 GHz Temp 1 [T1 0BW] -10.74 dBm 1.740520000 GHz Temp 2 [T1 0BW] -10.74 dBm 1.749520000 GHz Center 1.745 GHz 2 MHz/ Span 20 MHz Date: 10.JAN.2023 19:44:03	Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 100 kHz VBW 300 kHz SWT 10 ms Delta 1 [T1] -0.66 dB 9.800000000 MHz Marker 1 [T1] -10.74 dBm 1.740160000 GHz Temp 1 [T1 0BW] -10.74 dBm 1.740520000 GHz Temp 2 [T1 0BW] -10.74 dBm 1.749520000 GHz Center 1.745 GHz 2 MHz/ Span 20 MHz Date: 10.JAN.2023 19:44:21
Highest	Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 100 kHz VBW 300 kHz SWT 10 ms Delta 1 [T1] 2.52 dB 9.720000000 MHz Marker 1 [T1] -10.41 dBm 1.770120000 GHz Temp 1 [T1 0BW] -10.41 dBm 1.770520000 GHz Temp 2 [T1 0BW] -10.41 dBm 1.779480000 GHz Center 1.775 GHz 2 MHz/ Span 20 MHz Date: 10.JAN.2023 19:44:40	Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 100 kHz VBW 300 kHz SWT 10 ms Delta 1 [T1] -0.79 dB 9.680000000 MHz Marker 1 [T1] -10.25 dBm 1.770160000 GHz Temp 1 [T1 0BW] -10.25 dBm 1.770520000 GHz Temp 2 [T1 0BW] -10.25 dBm 1.779480000 GHz Center 1.775 GHz 2 MHz/ Span 20 MHz Date: 10.JAN.2023 19:44:58

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	 Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 300 kHz Delta 1 [T1] 0.00 dB VBW 1 MHz SWT 2.5 ms OBW 14.820000000 MHz Marker 1 [T1] -11.07 dBm Temp 1 [T1] 1.710120000 GHz Temp 2 [T1] 1.724280000 GHz Center 1.7175 GHz 3 MHz/ Span 30 MHz Date: 10.JAN.2023 19:45:22	 Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 300 kHz Delta 1 [T1] 1.74 dB VBW 1 MHz SWT 2.5 ms OBW 14.940000000 MHz Marker 1 [T1] -11.38 dBm Temp 1 [T1] 1.710000000 GHz Temp 2 [T1] 1.724280000 GHz Center 1.7175 GHz 3 MHz/ Span 30 MHz Date: 10.JAN.2023 19:45:41
Middle	 Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 300 kHz Delta 1 [T1] -1.32 dB VBW 1 MHz SWT 2.5 ms OBW 15.060000000 MHz Marker 1 [T1] -9.52 dBm Temp 1 [T1] 1.737560000 GHz Temp 2 [T1] 1.751840000 GHz Center 1.745 GHz 3 MHz/ Span 30 MHz Date: 10.JAN.2023 19:45:58	 Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 300 kHz Delta 1 [T1] 0.28 dB VBW 1 MHz SWT 2.5 ms OBW 14.880000000 MHz Marker 1 [T1] -10.64 dBm Temp 1 [T1] 1.737620000 GHz Temp 2 [T1] 1.751840000 GHz Center 1.745 GHz 3 MHz/ Span 30 MHz Date: 10.JAN.2023 19:46:13
Highest	 Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 300 kHz Delta 1 [T1] -1.16 dB VBW 1 MHz SWT 2.5 ms OBW 15.000000000 MHz Marker 1 [T1] -9.75 dBm Temp 1 [T1] 1.765720000 GHz Temp 2 [T1] 1.779340000 GHz Center 1.7725 GHz 3 MHz/ Span 30 MHz Date: 10.JAN.2023 19:46:34	 Ref 30 dBm Offset 4.4 dB Att 35 dB RBW 300 kHz Delta 1 [T1] 1.29 dB VBW 1 MHz SWT 2.5 ms OBW 15.060000000 MHz Marker 1 [T1] -9.54 dBm Temp 1 [T1] 1.765720000 GHz Temp 2 [T1] 1.779280000 GHz Center 1.7725 GHz 3 MHz/ Span 30 MHz Date: 10.JAN.2023 19:46:49

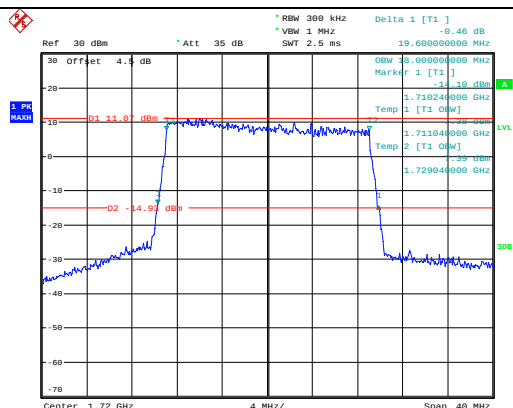
Occupied Bandwidth

Channel

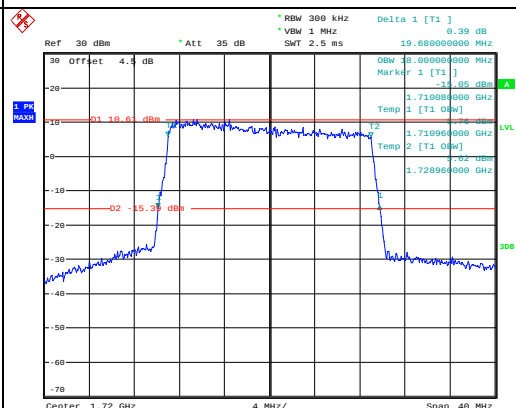
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

Lowest

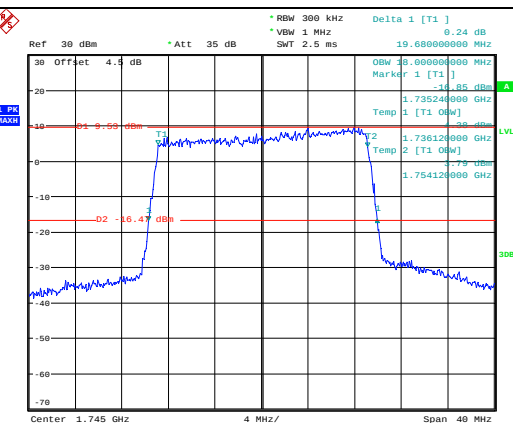


Date: 10.JAN.2023 19:47:11

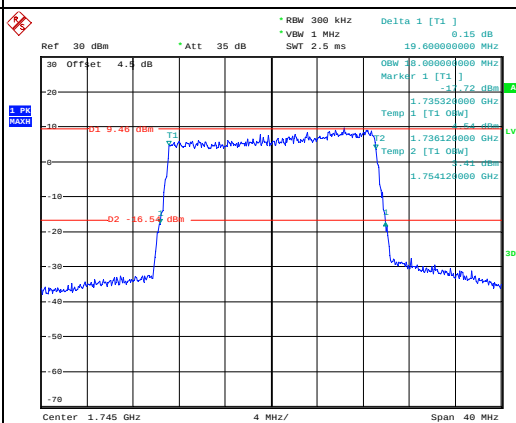


Date: 10.JAN.2023 19:47:29

Middle

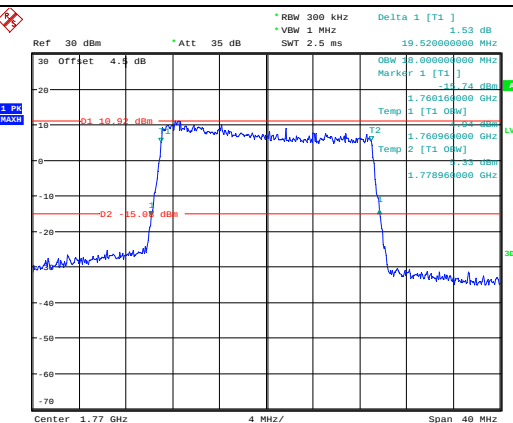


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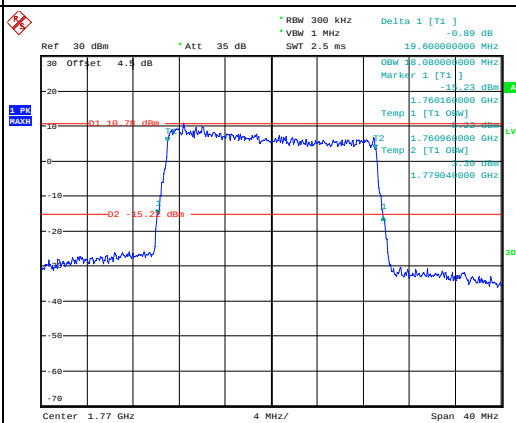


Date: 10.JAN.2023 19:48:05

Highest



Date: 10.JAN.2023 19:48:26



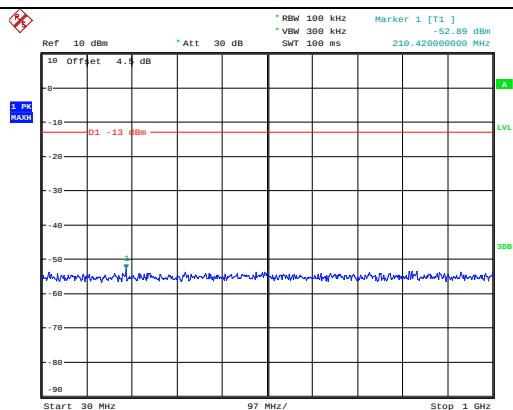
Date: 10.JAN.2023 19:48:44

Spurious Emissions at Antenna Terminal

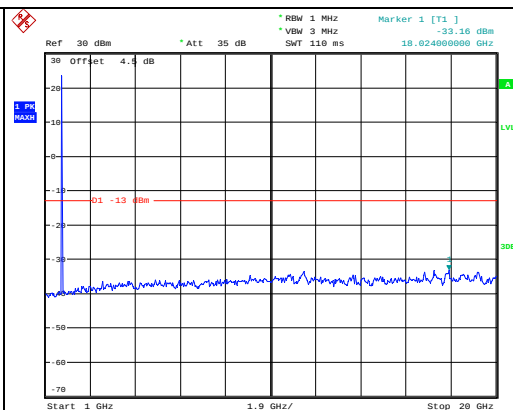
Channel

1.4MHz Bandwidth QPSK

Lowest

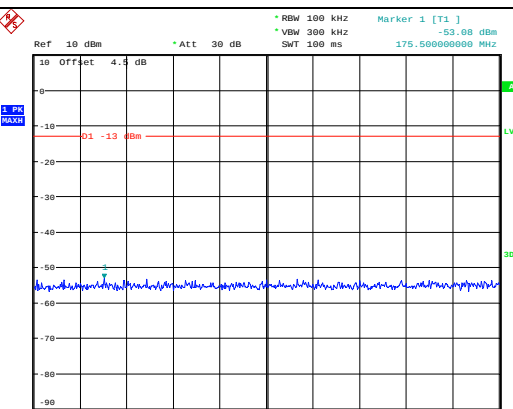


Date: 28.DEC.2022 15:43:53

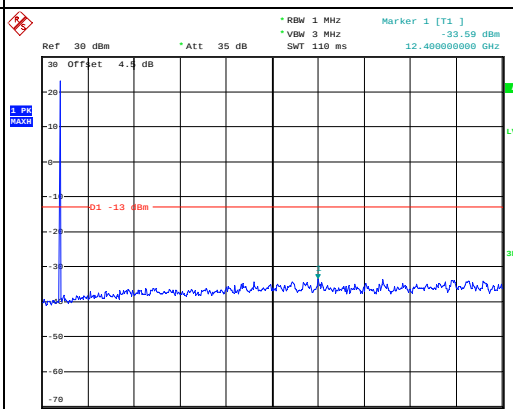


Date: 28.DEC.2022 15:43:45

Middle

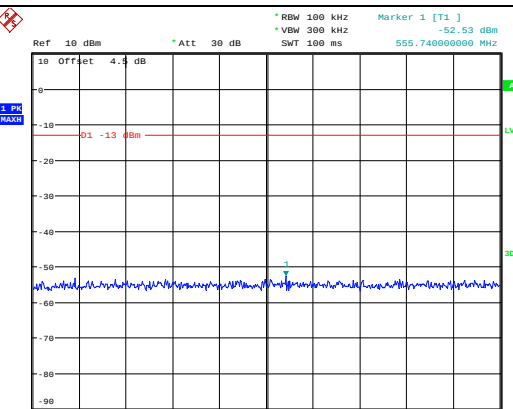


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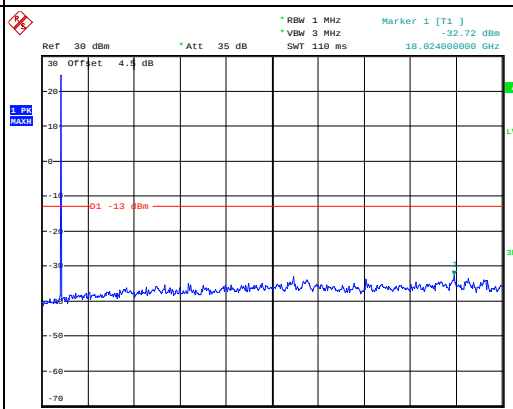


Date: 28.DEC.2022 15:44:10

Highest



Date: 28.DEC.2022 15:44:23



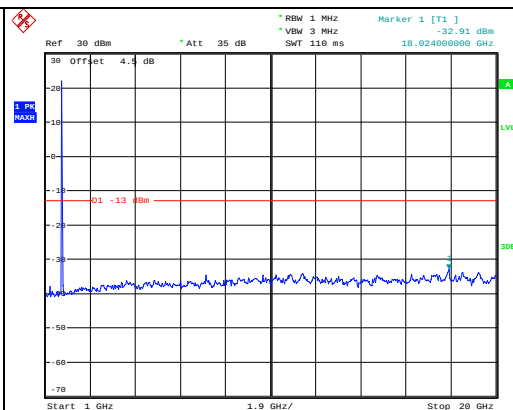
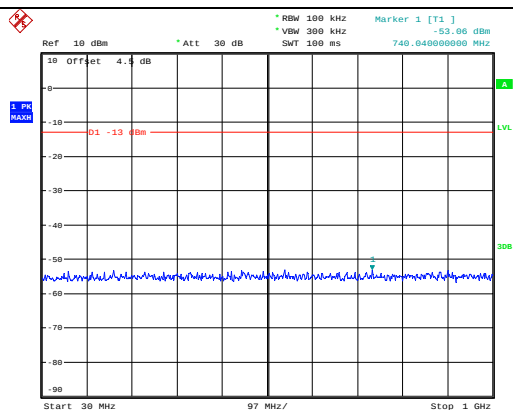
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Spurious Emissions at Antenna Terminal

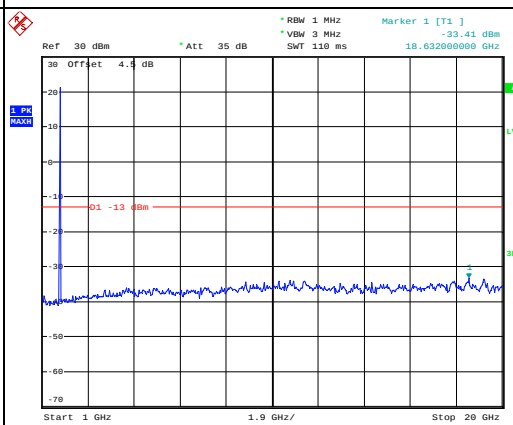
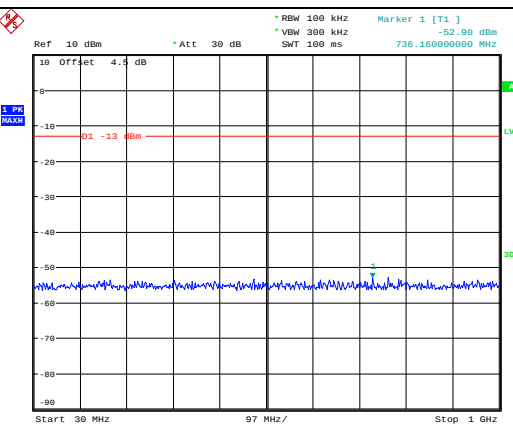
Channel

3MHz Bandwidth QPSK

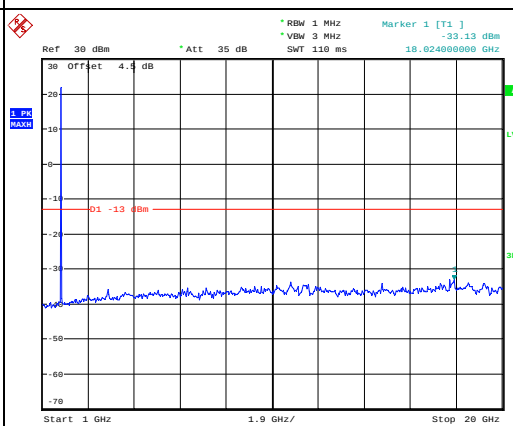
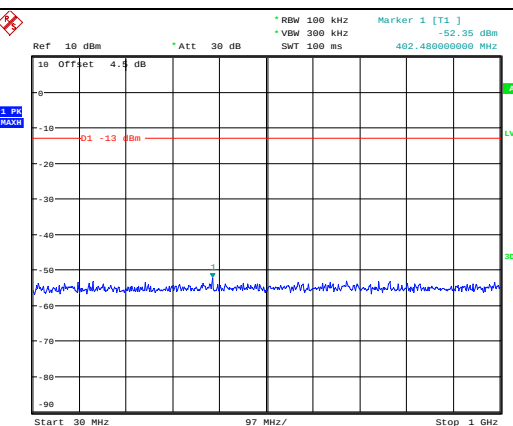
Lowest



Middle



Highest

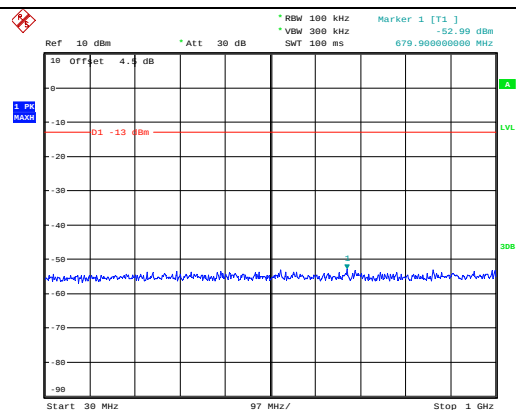


Spurious Emissions at Antenna Terminal

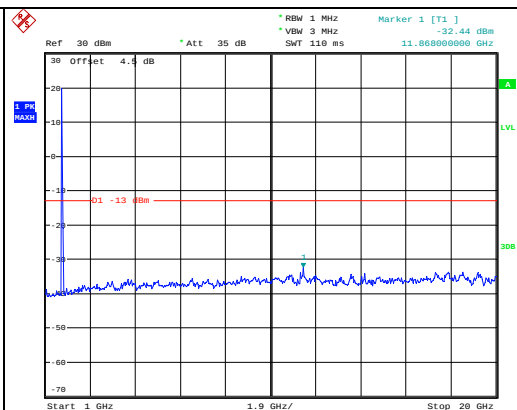
Channel

5MHz Bandwidth QPSK

Lowest

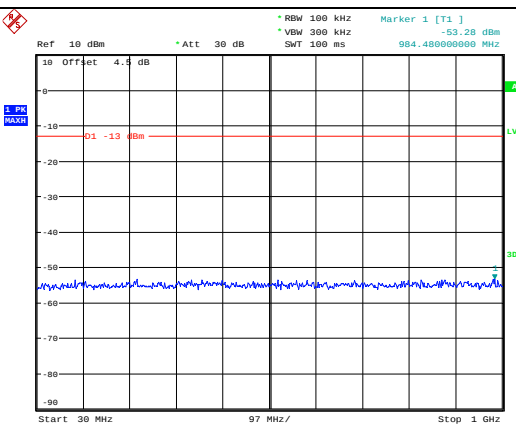


Date: 28.DEC.2022 15:46:12

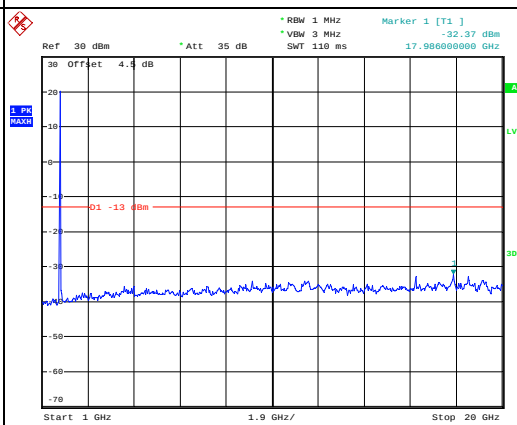


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Middle

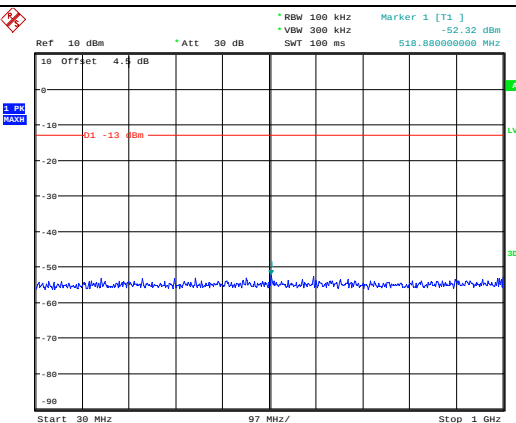


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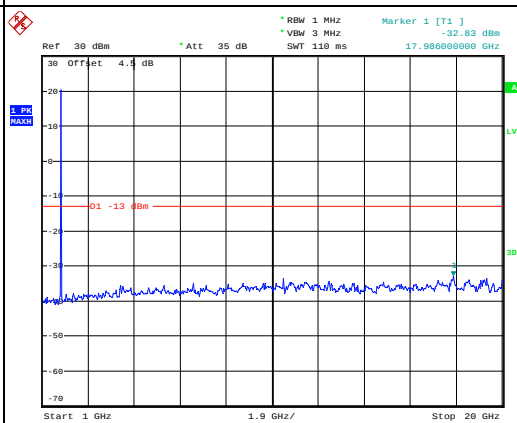


Date: 28.DEC.2022 15:46:51

Highest



Date: 28.DEC.2022 15:47:08



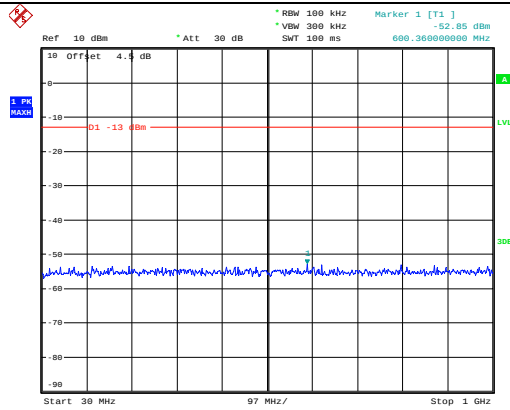
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Spurious Emissions at Antenna Terminal

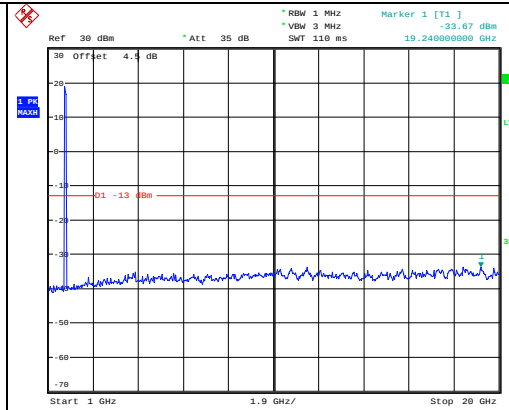
Channel

10MHz Bandwidth QPSK

Lowest

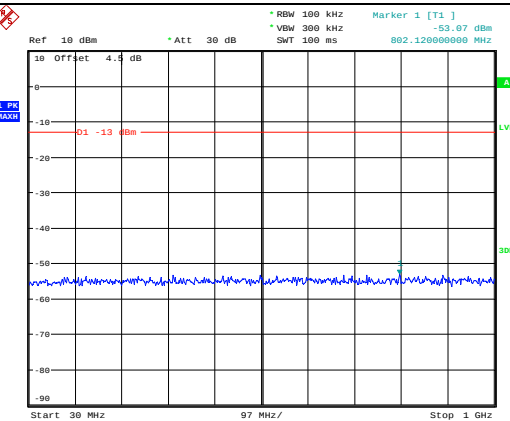


Date: 28.DEC.2022 15:47:38

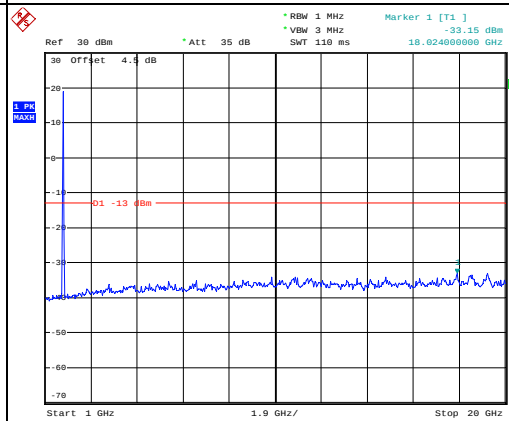


Date: 28.DEC.2022 15:47:49

Middle

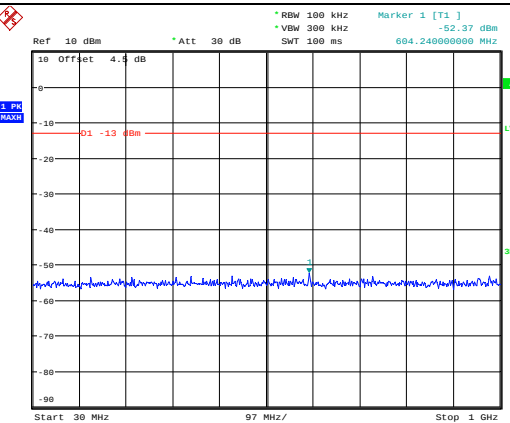


Date: 28.DEC.2022 15:48:07

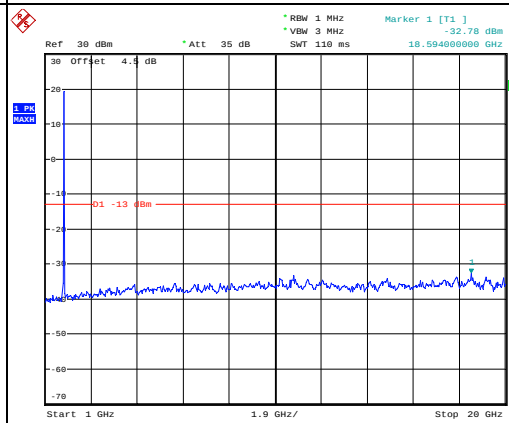


Date: 28.DEC.2022 15:48:18

Highest



Date: 28.DEC.2022 15:48:32



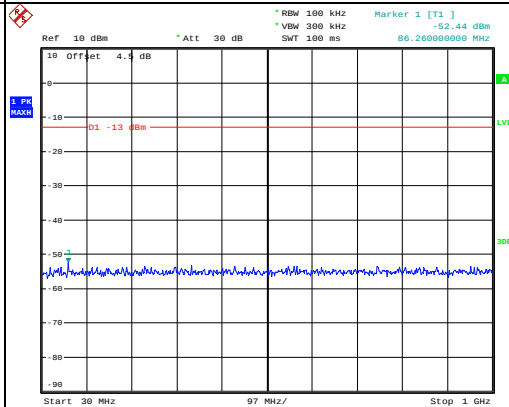
Date: 28.DEC.2022 15:48:44

Spurious Emissions at Antenna Terminal

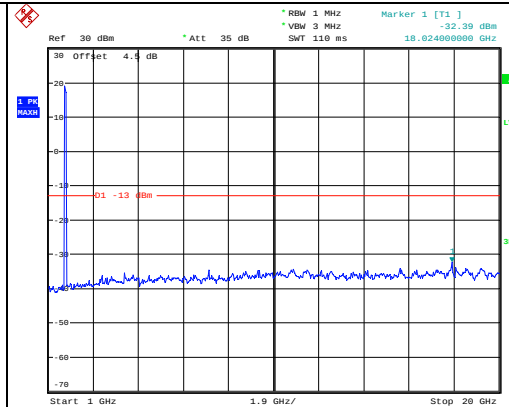
Channel

15MHz Bandwidth QPSK

Lowest

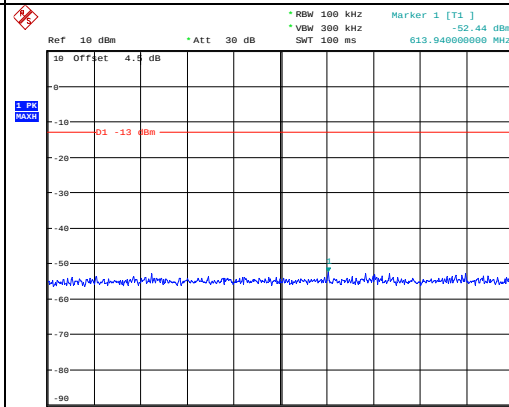


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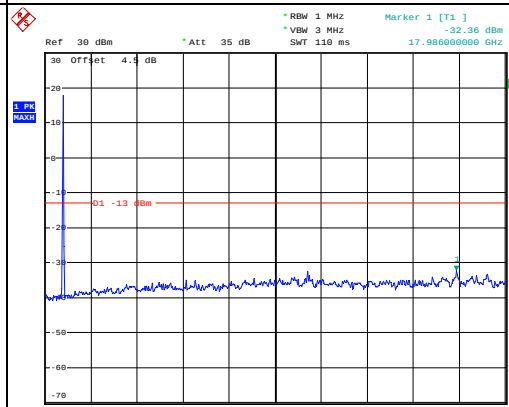


Date: 28.DEC.2022 15:49:13

Middle

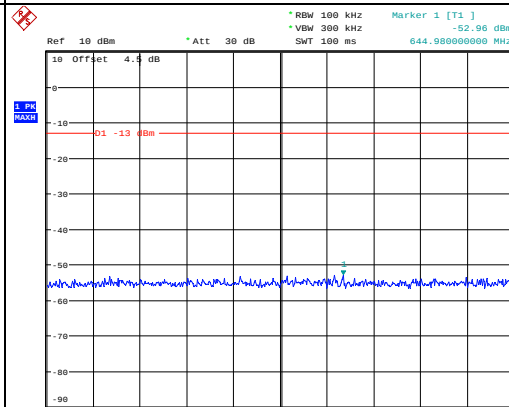


Date: 28.DEC.2022 15:49:31

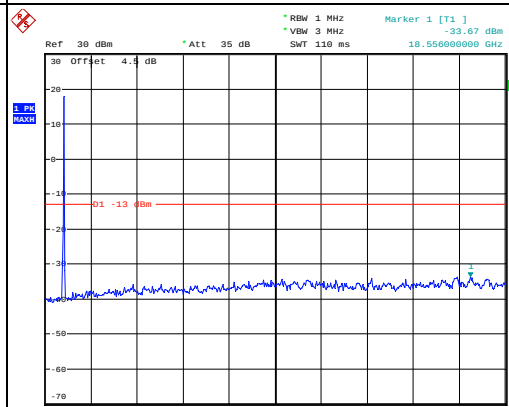


Date: 28.DEC.2022 15:49:46

Highest



Date: 28.DEC.2022 15:50:00



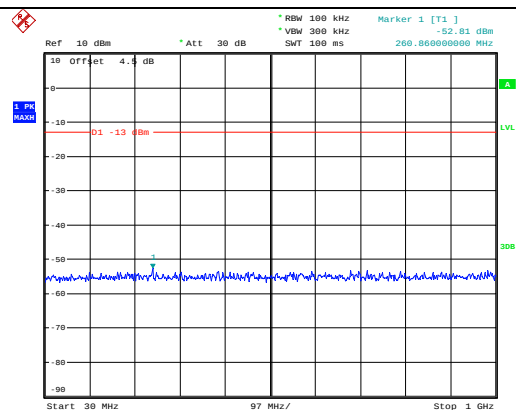
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Spurious Emissions at Antenna Terminal

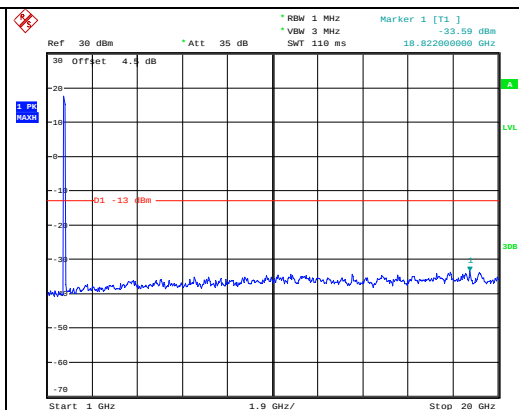
Channel

20MHz Bandwidth QPSK

Lowest

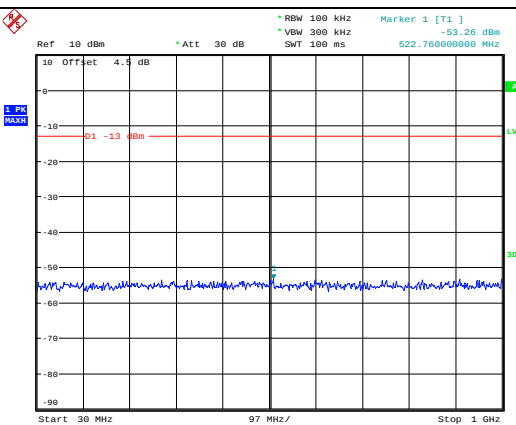


Date: 28.DEC.2022 15:50:30

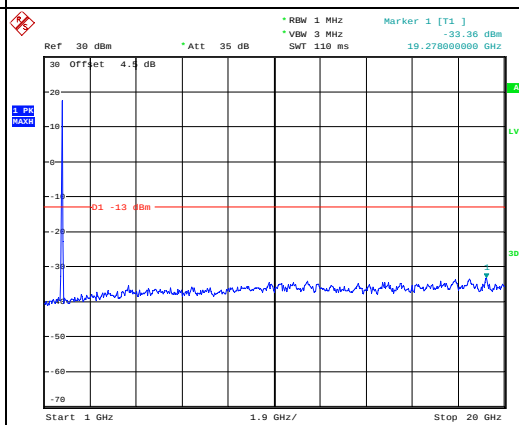


Date: 28.DEC.2022 15:50:42

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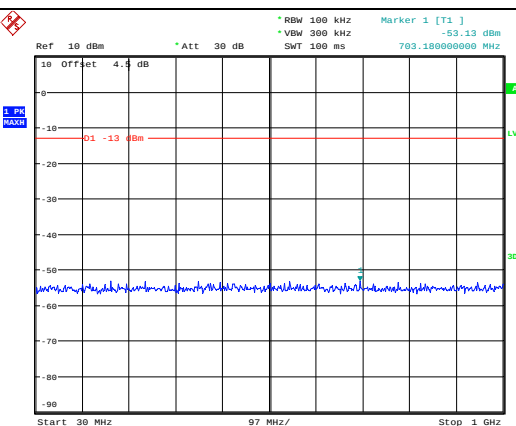


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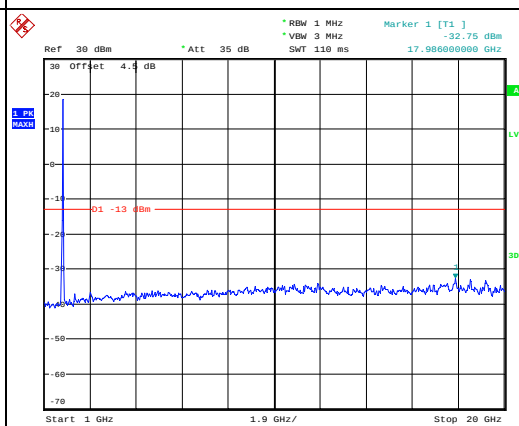


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Highest

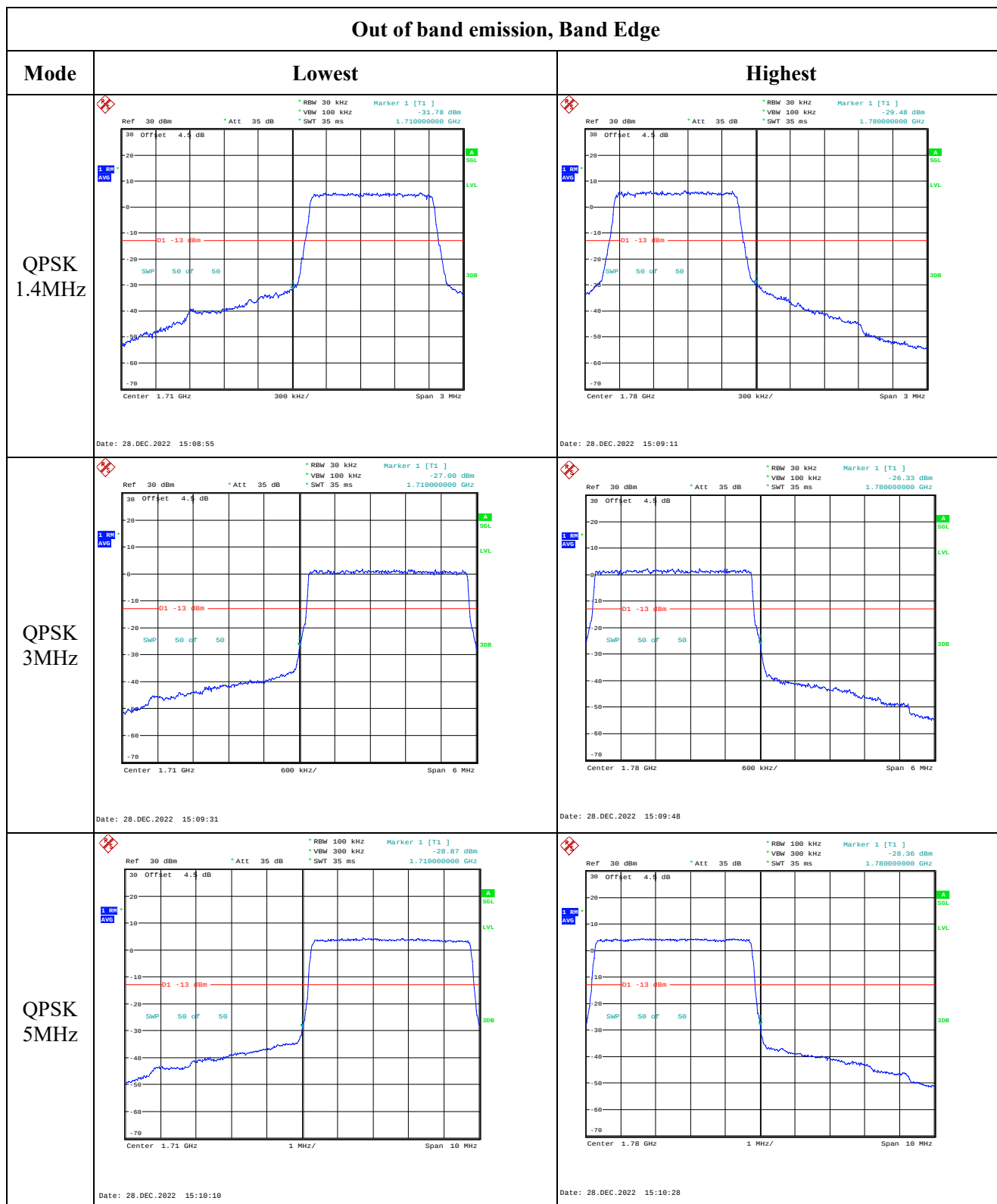


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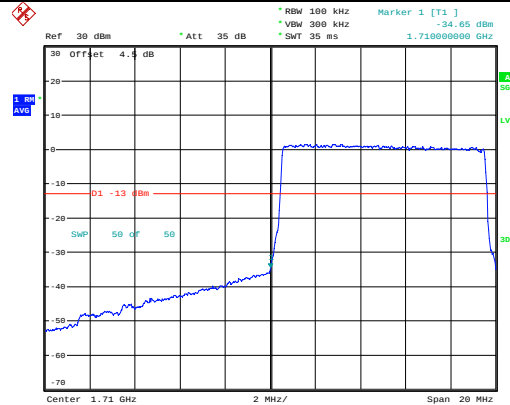
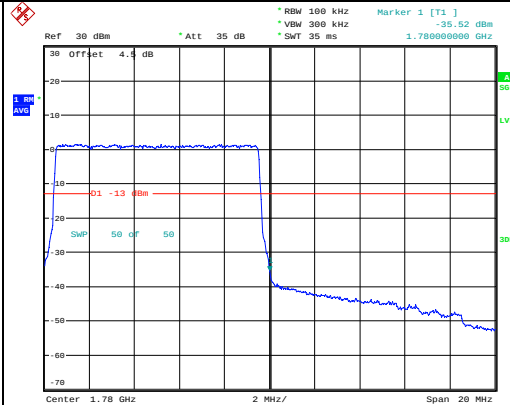
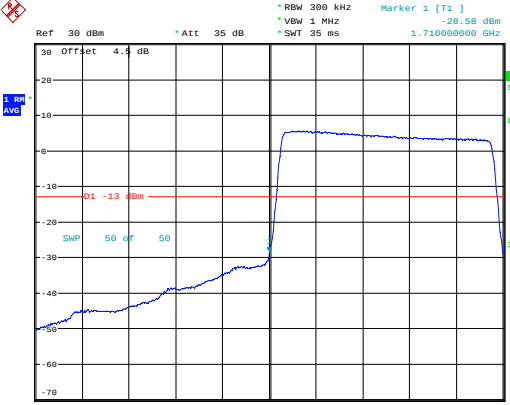
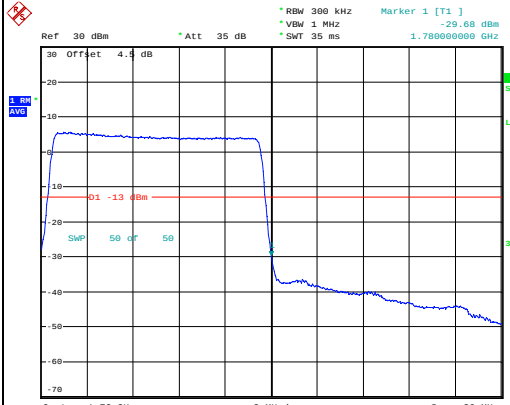
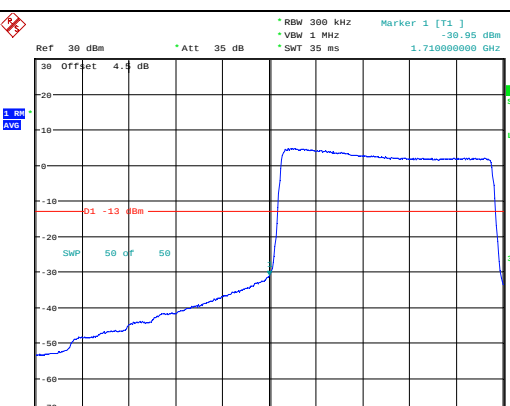
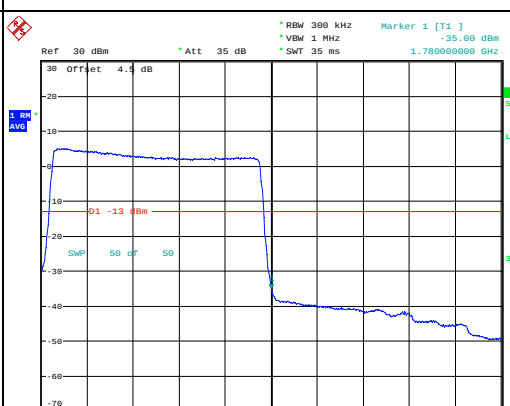


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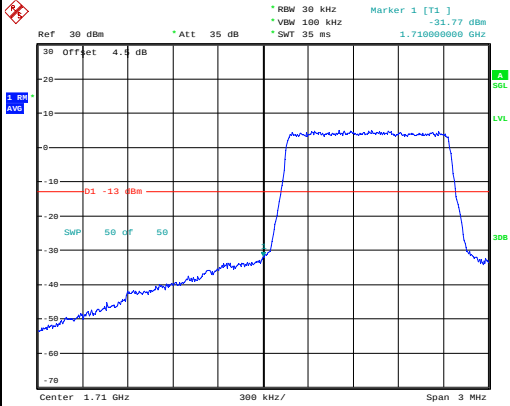
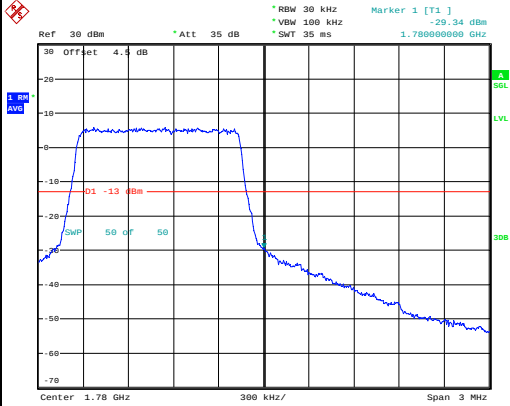
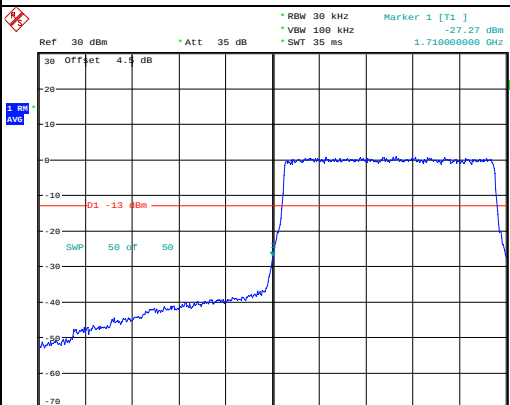
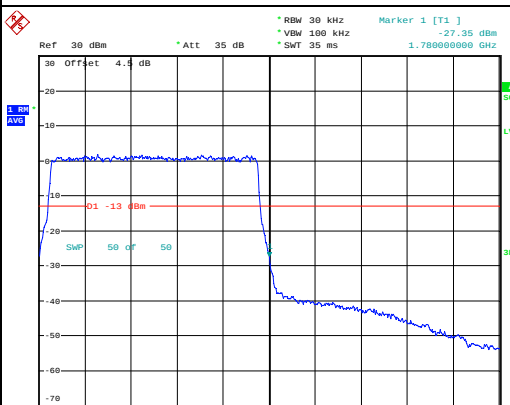
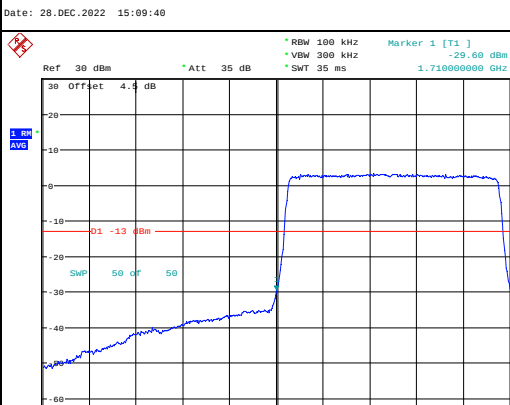
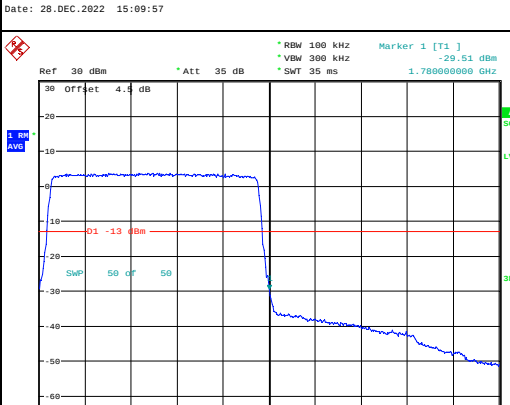
Out of band emission, Band Edge



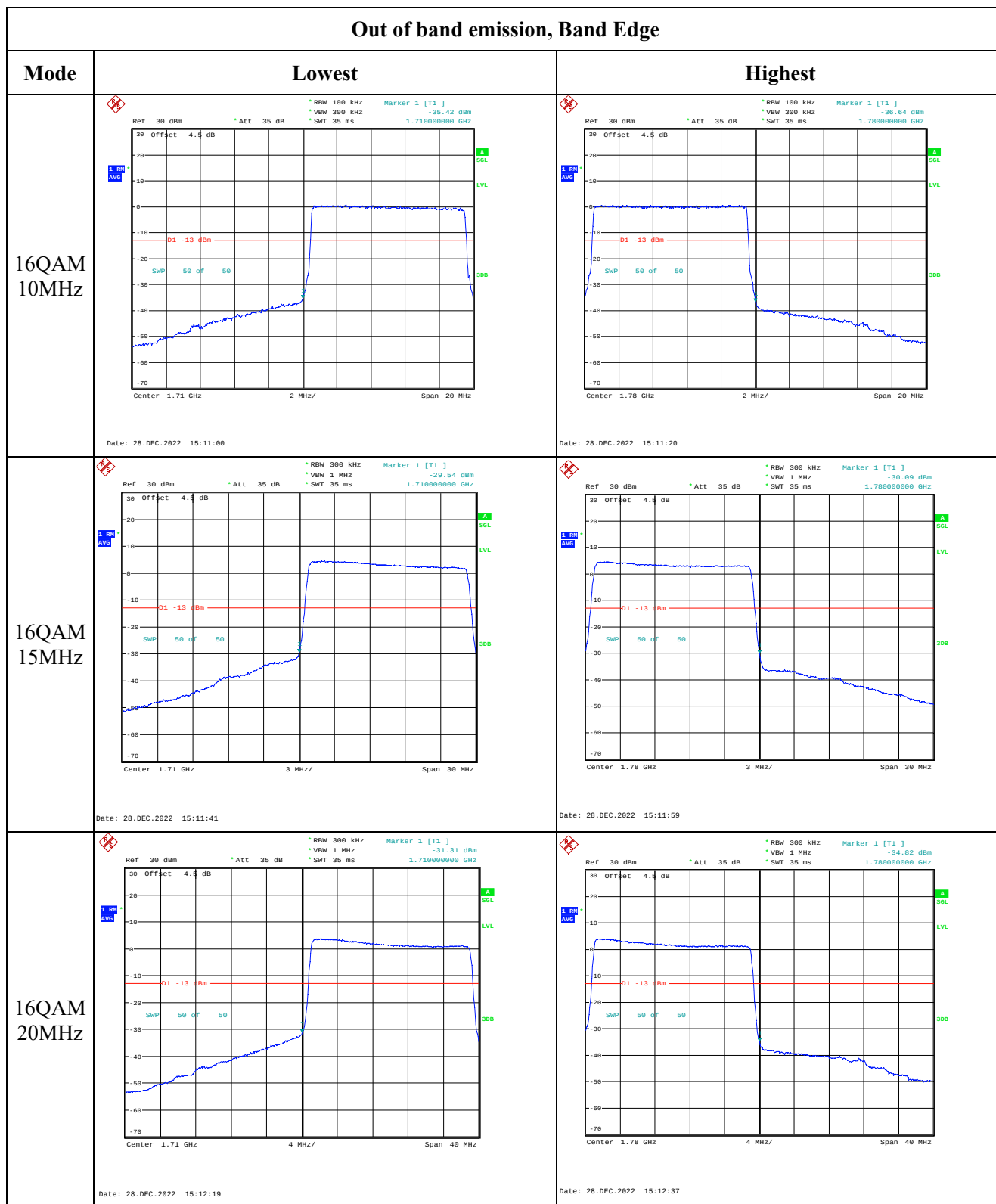
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz	 Ref 30 dBm Att 35 dB RBW 100 kHz Marker 1 [T1] -34.65 dBm VBW 300 kHz SWT 35 ms 1.710000000 GHz 30 Offset 4.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.71 GHz 2 MHz/ Span 20 MHz Date: 28.DEC.2022 15:10:51	 Ref 30 dBm Att 35 dB RBW 100 kHz Marker 1 [T1] -35.52 dBm VBW 300 kHz SWT 35 ms 1.780000000 GHz 30 Offset 4.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.78 GHz 2 MHz/ Span 20 MHz Date: 28.DEC.2022 15:11:11
QPSK 15MHz	 Ref 30 dBm Att 35 dB RBW 300 kHz Marker 1 [T1] -29.58 dBm VBW 1 MHz SWT 35 ms 1.710000000 GHz 30 Offset 4.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.71 GHz 3 MHz/ Span 30 MHz Date: 28.DEC.2022 15:11:33	 Ref 30 dBm Att 35 dB RBW 300 kHz Marker 1 [T1] -29.68 dBm VBW 1 MHz SWT 35 ms 1.780000000 GHz 30 Offset 4.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.78 GHz 3 MHz/ Span 30 MHz Date: 28.DEC.2022 15:11:50
QPSK 20MHz	 Ref 30 dBm Att 35 dB RBW 300 kHz Marker 1 [T1] -30.95 dBm VBW 1 MHz SWT 35 ms 1.710000000 GHz 30 Offset 4.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.71 GHz 4 MHz/ Span 40 MHz Date: 28.DEC.2022 15:12:11	 Ref 30 dBm Att 35 dB RBW 300 kHz Marker 1 [T1] -35.80 dBm VBW 1 MHz SWT 35 ms 1.780000000 GHz 30 Offset 4.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.78 GHz 4 MHz/ Span 40 MHz Date: 28.DEC.2022 15:12:29

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	 Ref 30 dBm *Att 35 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -29.77 dBm 1.710000000 GHz 30 Offset 4.4 dB 01 -13 dBm SWP 50 OF 50 Center 1.71 GHz 300 kHz/ Span 3 MHz Date: 28.DEC.2022 15:09:03	 Ref 30 dBm *Att 35 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -29.34 dBm 1.780000000 GHz 30 Offset 4.4 dB 01 -13 dBm SWP 50 OF 50 Center 1.78 GHz 300 kHz/ Span 3 MHz Date: 28.DEC.2022 15:09:19
16QAM 3MHz	 Ref 30 dBm *Att 35 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -27.27 dBm 1.710000000 GHz 30 Offset 4.4 dB 01 -13 dBm SWP 50 OF 50 Center 1.71 GHz 600 kHz/ Span 6 MHz Date: 28.DEC.2022 15:09:40	 Ref 30 dBm *Att 35 dB *RBW 30 kHz *VBW 100 kHz *SWT 35 ms Marker 1 [T1] -27.35 dBm 1.780000000 GHz 30 Offset 4.4 dB 01 -13 dBm SWP 50 OF 50 Center 1.78 GHz 600 kHz/ Span 6 MHz Date: 28.DEC.2022 15:09:57
16QAM 5MHz	 Ref 30 dBm *Att 35 dB *RBW 100 kHz *VBW 300 kHz *SWT 35 ms Marker 1 [T1] -29.50 dBm 1.710000000 GHz 30 Offset 4.4 dB 01 -13 dBm SWP 50 OF 50 Center 1.71 GHz 1 MHz/ Span 10 MHz Date: 28.DEC.2022 15:10:18	 Ref 30 dBm *Att 35 dB *RBW 100 kHz *VBW 300 kHz *SWT 35 ms Marker 1 [T1] -29.51 dBm 1.780000000 GHz 30 Offset 4.4 dB 01 -13 dBm SWP 50 OF 50 Center 1.78 GHz 1 MHz/ Span 10 MHz Date: 28.DEC.2022 15:10:37

Out of band emission, Band Edge



4.13 Antenna Port Test Data and Results for LTE Band 71

Serial Number:	1SNT-1	Test Date:	2023/1/3-2023/1/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.3-23.2	Relative Humidity: (%)	38-63	ATM Pressure: (kPa)	102.1-101.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200445	2022/4/5	2023/4/4
R&S	Wideband Radio Communication Tester	CMW500	149218	2022/7/15	2023/7/14
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022/4/6	2023/4/5
UNI-T	Multimeter	UT39A+	C210582554	2022/9/29	2023/9/28
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).*

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	665.5	680.5	695.5
10MHz	668	680.5	693
15MHz	670.5	680.5	690.5
20MHz	673	680.5	688

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	18.74	18.86	18.91	12.79	34.77
	RB1#13	18.84	18.88	18.85		
	RB1#24	18.74	18.98	18.8		
	RB15#0	17.64	17.87	17.88		
	RB15#10	17.71	18.11	18.13		
	RB25#0	17.74	17.88	17.98		
5MHz 16QAM	RB1#0	17.56	17.05	17.17	11.52	34.77
	RB1#13	17.71	16.97	17.21		
	RB1#24	17.68	17.18	17.12		
	RB15#0	16.63	17.38	17.31		
	RB15#10	16.7	16.93	17.22		
	RB25#0	16.65	17.39	17.28		
10MHz QPSK	RB1#0	18.6	18.71	19	12.81	34.77
	RB1#25	18.6	18.83	18.88		
	RB1#49	18.92	18.83	18.8		
	RB25#0	17.75	17.91	17.75		
	RB25#25	17.78	17.9	18.02		
	RB50#0	17.84	17.77	17.91		
10MHz 16QAM	RB1#0	17.8	18.19	18.38	12.2	34.77
	RB1#25	18.16	18.05	18.26		
	RB1#49	18.26	18.3	18.39		
	RB25#0	16.83	16.78	17.32		
	RB25#25	16.83	16.75	17.2		
	RB50#0	16.89	17.26	16.89		
15MHz QPSK	RB1#0	18.54	18.68	18.89	12.74	34.77
	RB1#38	18.57	18.83	18.71		
	RB1#74	18.63	18.84	18.93		
	RB36#0	17.75	17.87	17.96		
	RB36#39	17.72	17.88	17.89		
	RB75#0	17.71	17.88	17.67		
15MHz 16QAM	RB1#0	17.67	18.01	18.09	11.99	34.77
	RB1#38	17.84	18.1	17.97		
	RB1#74	17.97	18.18	18.12		
	RB36#0	16.86	16.79	17.39		
	RB36#39	16.79	16.89	17.33		
	RB75#0	16.74	17.36	17.29		
20MHz QPSK	RB1#0	18.59	18.83	18.72	12.77	34.77
	RB1#50	18.78	18.9	18.85		

	RB1#99	18.88	18.91	18.96		
	RB50#0	17.73	18.03	17.93		
	RB50#50	17.89	17.94	17.91		
	RB100#0	17.69	17.77	17.84		
20MHz 16QAM	RB1#0	17.44	17.58	17.7	11.85	34.77
	RB1#50	17.6	17.56	17.82		
	RB1#99	17.99	17.4	18.04		
	RB50#0	16.9	17.38	16.86		
	RB50#50	16.84	16.83	16.95		
	RB100#0	16.74	17.34	17.33		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G_T(dBd)G_T(dBd)=G_T(dBi)-2.15

Note: ERP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(dBd)

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	4.52	4.9	5.9	13
	RB100#0	5.58	5.29	5.54	13
20MHz 16QAM	RB1#0	5.61	6.12	6.99	13
	RB100#0	6.35	5.93	6.47	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	4.5	4.54	4.52	4.98	5.02	4.98
5MHz 16QAM	4.54	4.54	4.52	5	5.02	5
10MHz QPSK	9	8.96	8.92	9.84	9.76	9.68
10MHz 16QAM	8.96	8.96	8.92	9.8	9.8	9.68
15MHz QPSK	13.56	13.5	13.56	14.88	14.88	14.88
15MHz 16QAM	13.5	13.56	13.56	14.94	15	14.94
20MHz QPSK	18	17.92	18	19.68	19.6	19.84
20MHz 16QAM	18	18	18	19.6	19.68	19.84

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.
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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.
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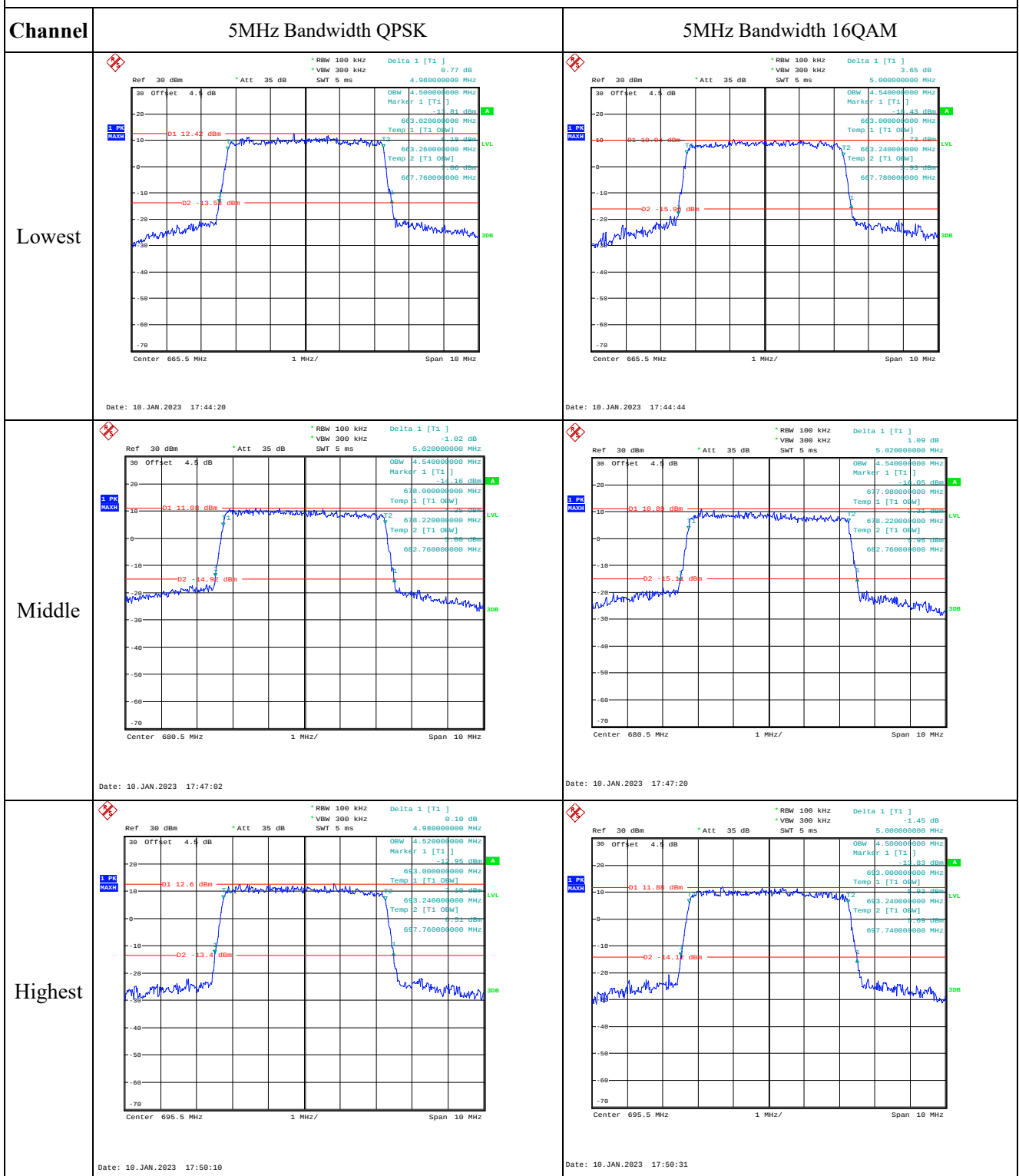
FCC §2.1055, §27.54: Frequency Stability

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	3.8	664.028	663.00	697.066	698.00
	-20	3.8	664.033	663.00	697.050	698.00
	-10	3.8	664.017	663.00	697.068	698.00
	0	3.8	664.024	663.00	697.055	698.00
	10	3.8	664.031	663.00	697.043	698.00
	20	3.8	664.040	663.00	697.040	698.00
	30	3.8	664.017	663.00	697.055	698.00
	40	3.8	664.031	663.00	697.043	698.00
Frequency Stability vs. Voltage	20	3.5	664.025	663.00	697.062	698.00
	20	4.2	664.013	663.00	697.066	698.00
Result:					Pass	

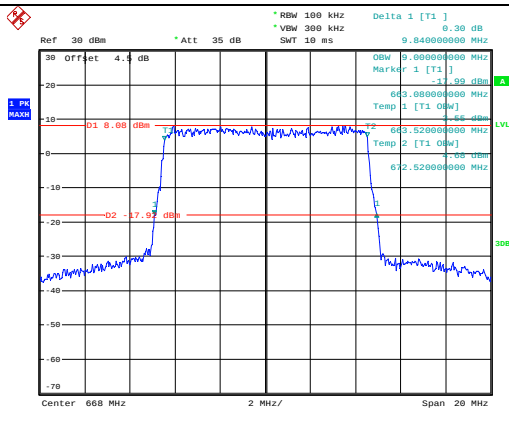
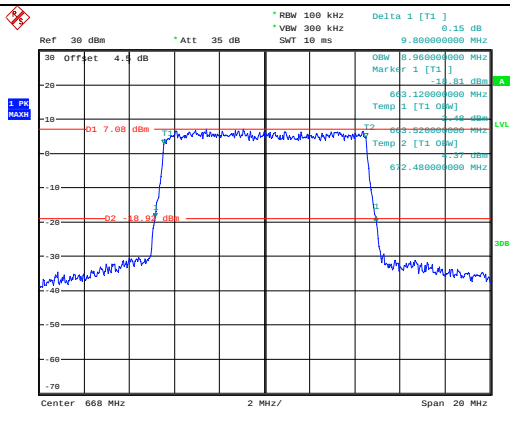
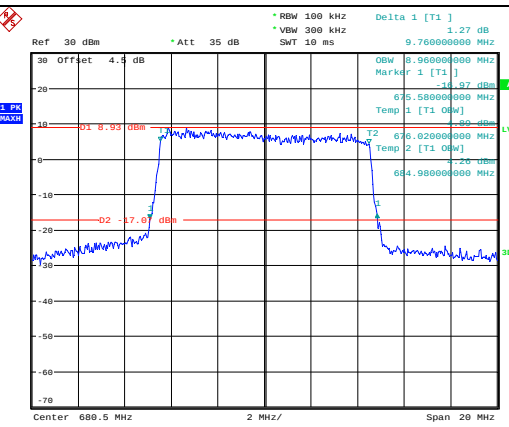
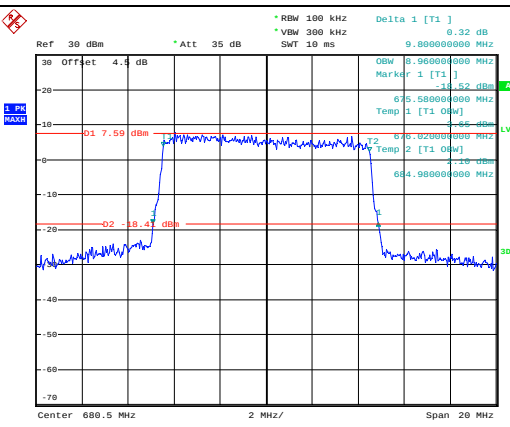
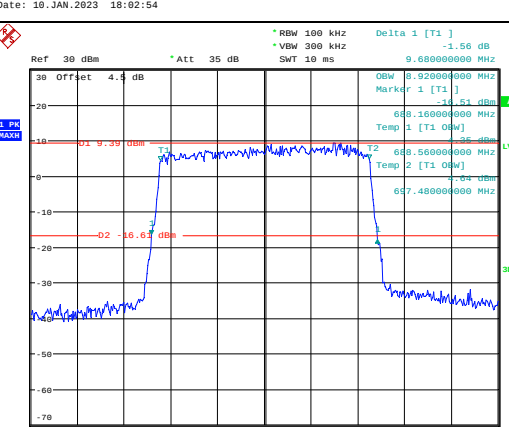
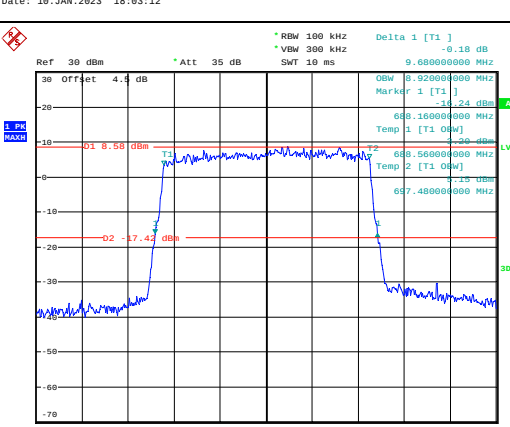
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	664.034	663.00	697.127	698.00
	-20	3.8	664.013	663.00	697.125	698.00
	-10	3.8	664.032	663.00	697.145	698.00
	0	3.8	664.033	663.00	697.130	698.00
	10	3.8	664.015	663.00	697.133	698.00
	20	3.8	664.040	663.00	697.120	698.00
	30	3.8	664.013	663.00	697.134	698.00
	40	3.8	664.036	663.00	697.148	698.00
Frequency Stability vs. Voltage	20	3.5	664.017	663.00	697.135	698.00
	20	4.2	664.012	663.00	697.124	698.00
Result:					Pass	

Test Plots(Note: The 4.5dB is the Insertion loss of the RF cable, Power Splitter, which was offset into the Spectrum Analyzer):

Occupied Bandwidth



Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	 Ref 30 dBm *Att 35 dB *RBW 100 kHz Delta 1 [T1] 0.30 dB *VBW 300 kHz 9.840000000 MHz 30 Offset 4.4 dB Marker 1 [T1] -10.99 dBm 643.080000000 MHz Temp 1 [T1 0dB] -10.99 dBm 643.520000000 MHz Temp 2 [T1 0dB] -10.99 dBm 672.520000000 MHz -10.99 dBm -17.97 dBm Center 668 MHz 2 MHz/ Span 20 MHz Date: 10.JAN.2023 18:01:12	 Ref 30 dBm *Att 35 dB *RBW 100 kHz Delta 1 [T1] 0.15 dB *VBW 300 kHz 9.800000000 MHz 30 Offset 4.4 dB Marker 1 [T1] -10.81 dBm 643.120000000 MHz Temp 1 [T1 0dB] -10.81 dBm 643.520000000 MHz Temp 2 [T1 0dB] -10.81 dBm 672.480000000 MHz -10.81 dBm -18.97 dBm Center 668 MHz 2 MHz/ Span 20 MHz Date: 10.JAN.2023 18:01:30
Middle	 Ref 30 dBm *Att 35 dB *RBW 100 kHz Delta 1 [T1] 1.27 dB *VBW 300 kHz 9.760000000 MHz 30 Offset 4.4 dB Marker 1 [T1] -10.97 dBm 675.580000000 MHz Temp 1 [T1 0dB] -10.97 dBm 676.020000000 MHz Temp 2 [T1 0dB] -10.97 dBm 684.980000000 MHz -10.97 dBm -17.07 dBm Center 680.5 MHz 2 MHz/ Span 20 MHz Date: 10.JAN.2023 18:02:54	 Ref 30 dBm *Att 35 dB *RBW 100 kHz Delta 1 [T1] 0.32 dB *VBW 300 kHz 9.800000000 MHz 30 Offset 4.4 dB Marker 1 [T1] -10.52 dBm 675.580000000 MHz Temp 1 [T1 0dB] -10.52 dBm 676.020000000 MHz Temp 2 [T1 0dB] -10.52 dBm 684.980000000 MHz -10.52 dBm -18.47 dBm Center 680.5 MHz 2 MHz/ Span 20 MHz Date: 10.JAN.2023 18:03:12
Highest	 Ref 30 dBm *Att 35 dB *RBW 100 kHz Delta 2 [T1] -1.56 dB *VBW 300 kHz 9.680000000 MHz 30 Offset 4.4 dB Marker 1 [T1] -10.51 dBm 688.160000000 MHz Temp 1 [T1 0dB] -10.51 dBm 688.560000000 MHz Temp 2 [T1 0dB] -10.51 dBm 687.480000000 MHz -10.51 dBm -16.67 dBm Center 693 MHz 2 MHz/ Span 20 MHz Date: 10.JAN.2023 18:04:37	 Ref 30 dBm *Att 35 dB *RBW 100 kHz Delta 1 [T1] -0.18 dB *VBW 300 kHz 9.680000000 MHz 30 Offset 4.4 dB Marker 1 [T1] -10.24 dBm 688.160000000 MHz Temp 1 [T1 0dB] -10.24 dBm 688.560000000 MHz Temp 2 [T1 0dB] -10.24 dBm 687.480000000 MHz -10.24 dBm -17.42 dBm Center 693 MHz 2 MHz/ Span 20 MHz Date: 10.JAN.2023 18:04:58

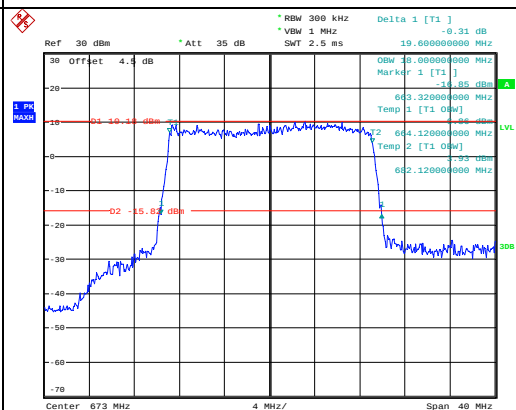
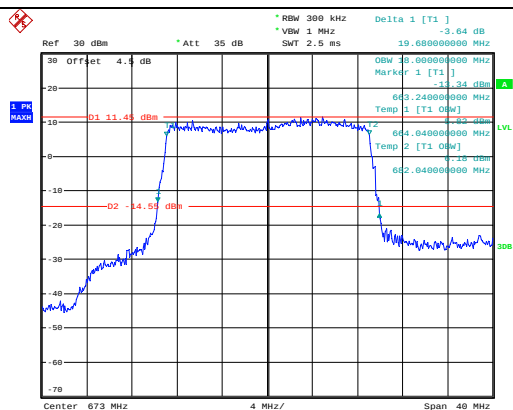
Occupied Bandwidth

Channel

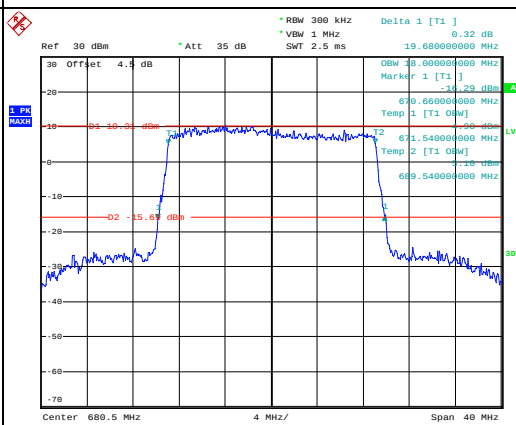
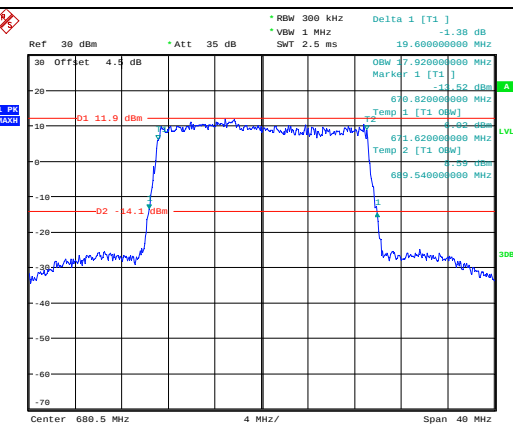
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

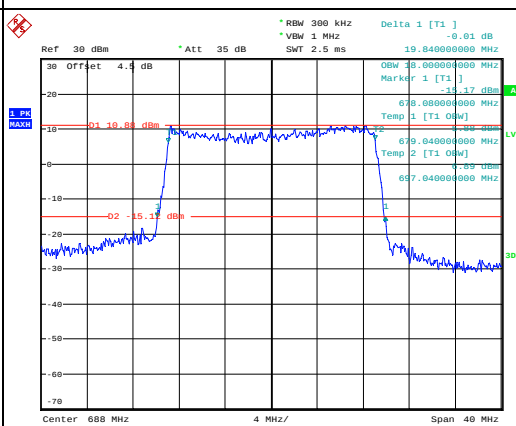
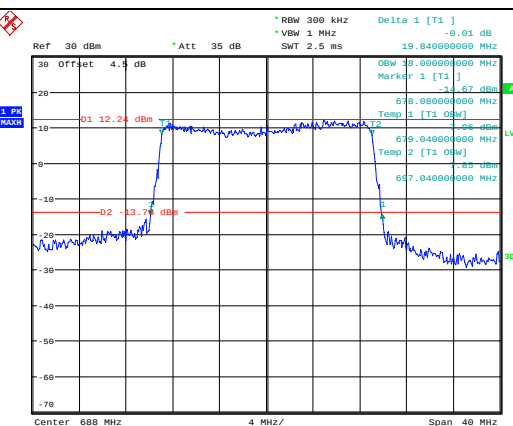
Lowest



Middle



Highest

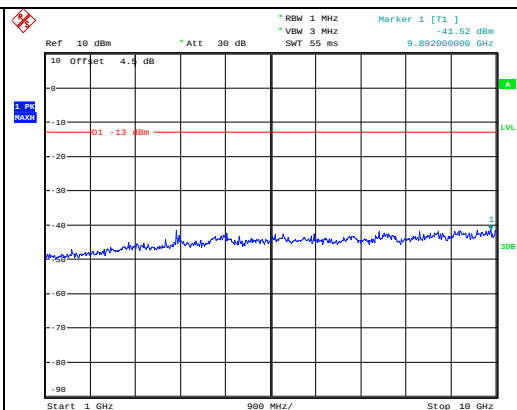
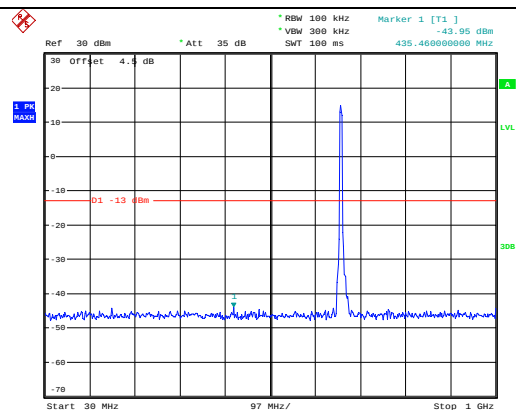


Spurious Emissions at Antenna Terminal

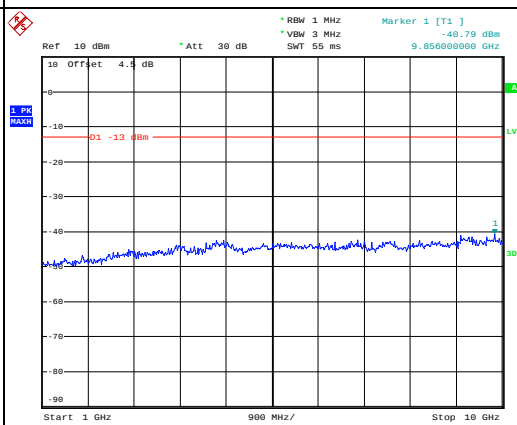
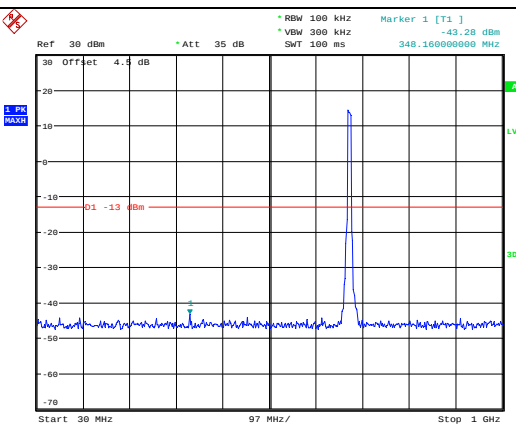
Channel

5MHz Bandwidth QPSK

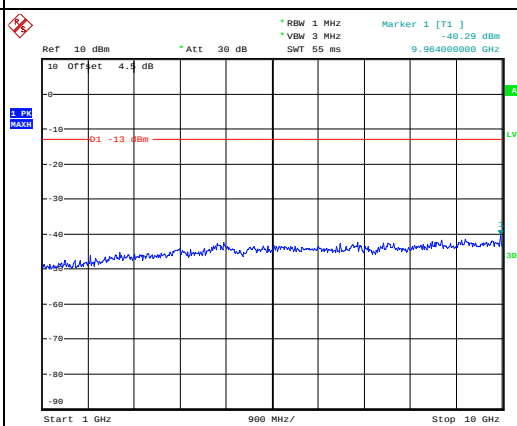
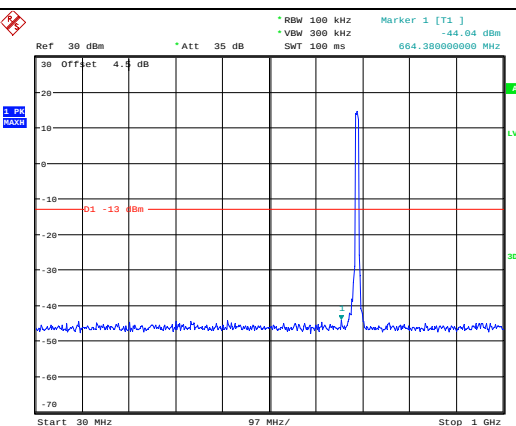
Lowest



Middle



Highest

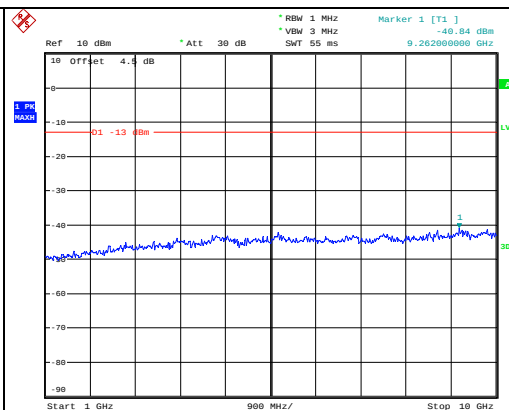
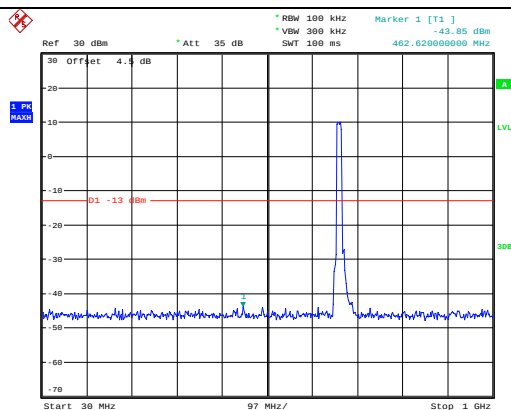


Spurious Emissions at Antenna Terminal

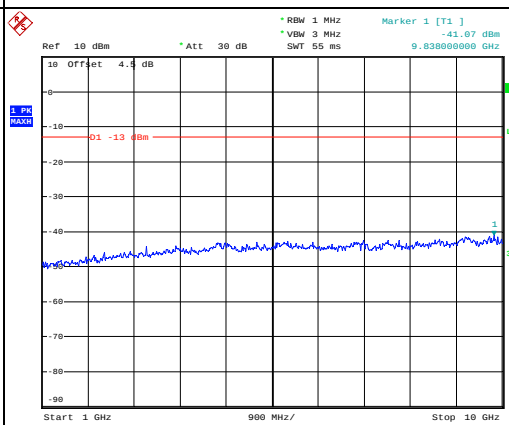
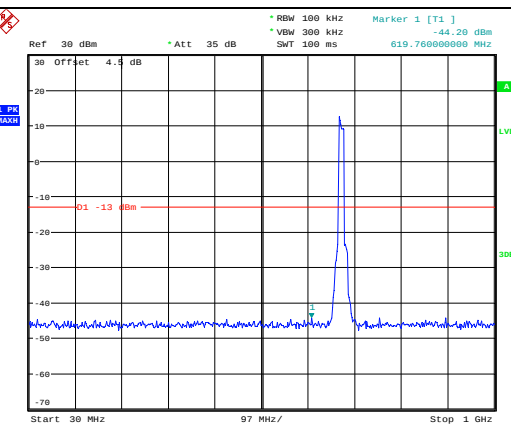
Channel

10MHz Bandwidth QPSK

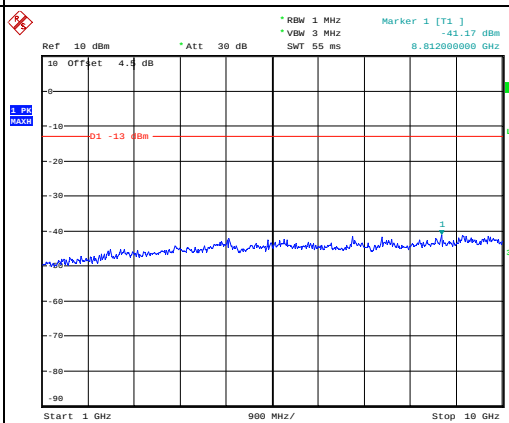
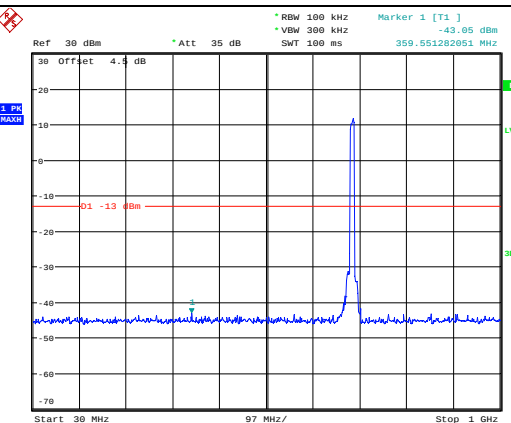
Lowest



Middle



Highest

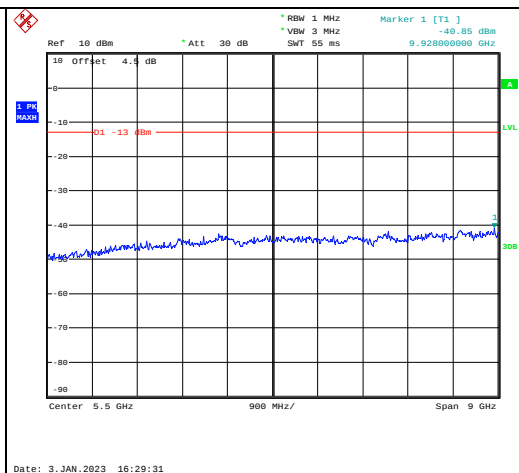
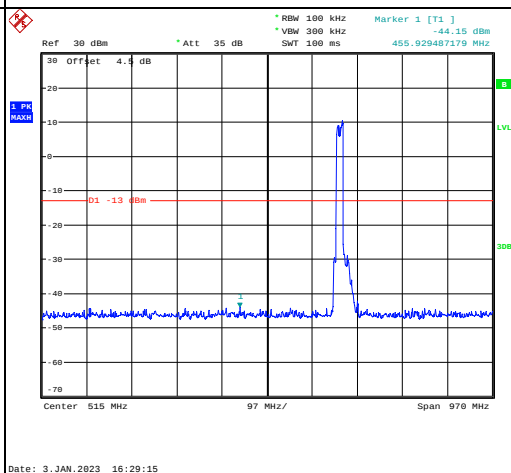


Spurious Emissions at Antenna Terminal

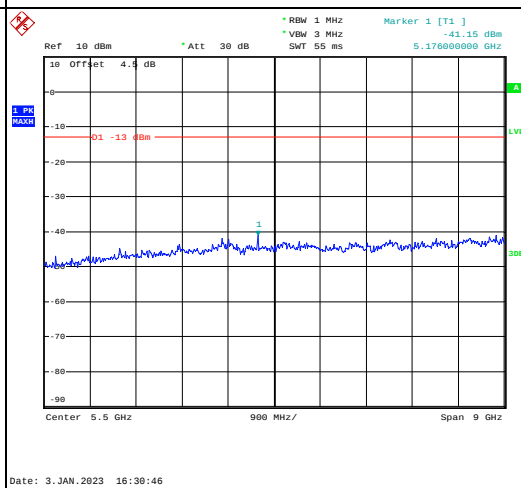
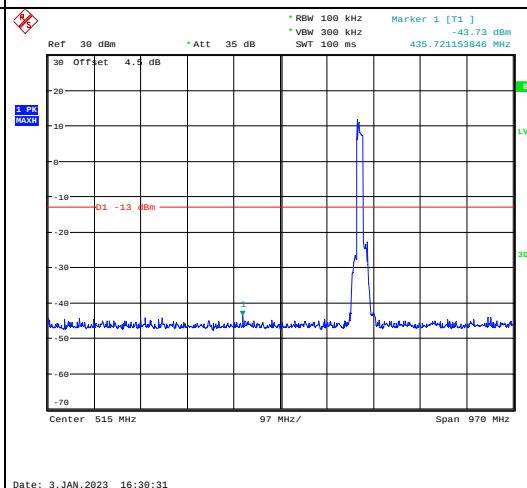
Channel

15MHz Bandwidth QPSK

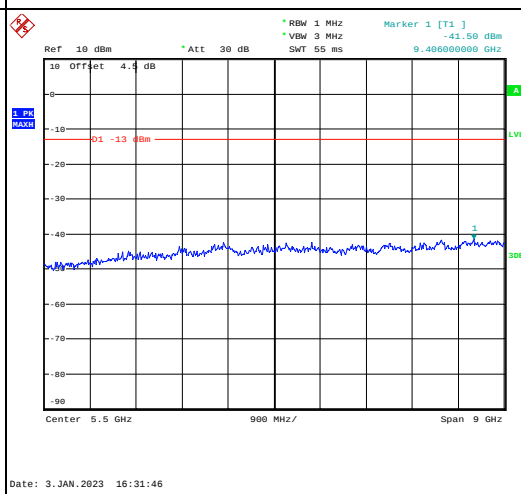
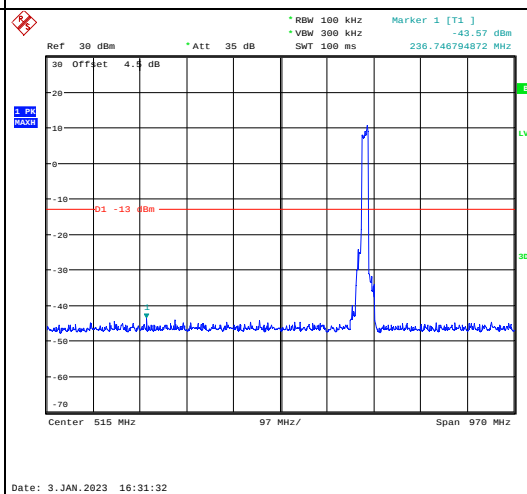
Lowest



Middle



Highest

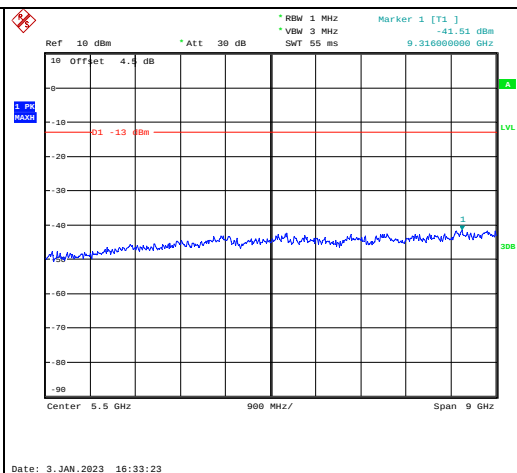
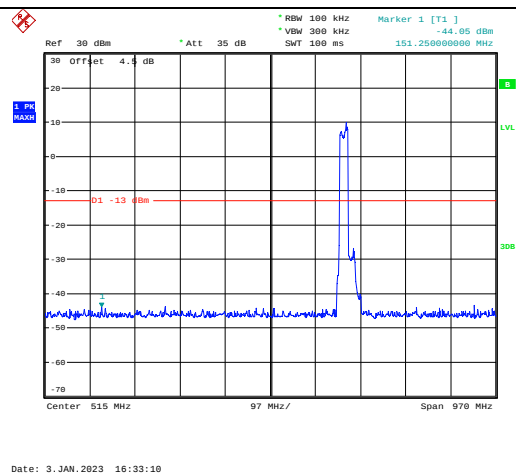


Spurious Emissions at Antenna Terminal

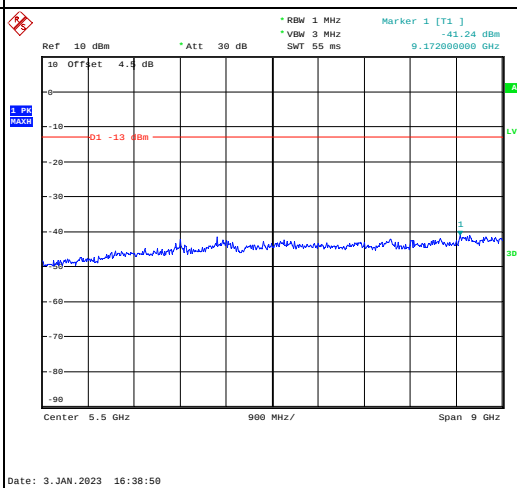
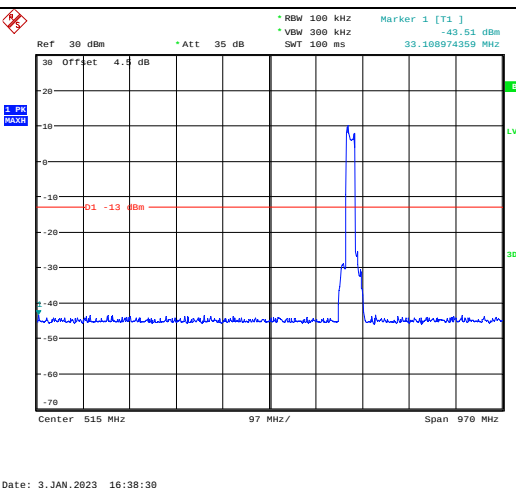
Channel

20MHz Bandwidth QPSK

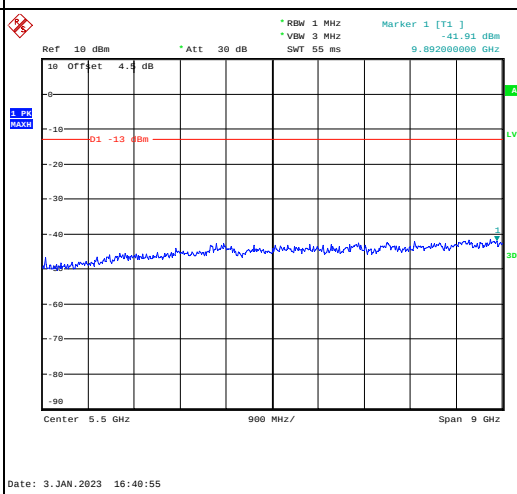
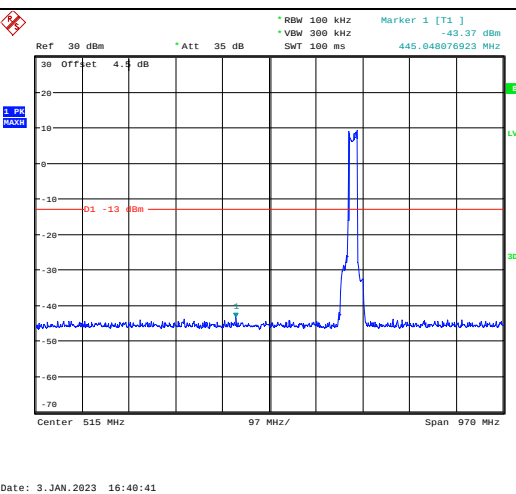
Lowest



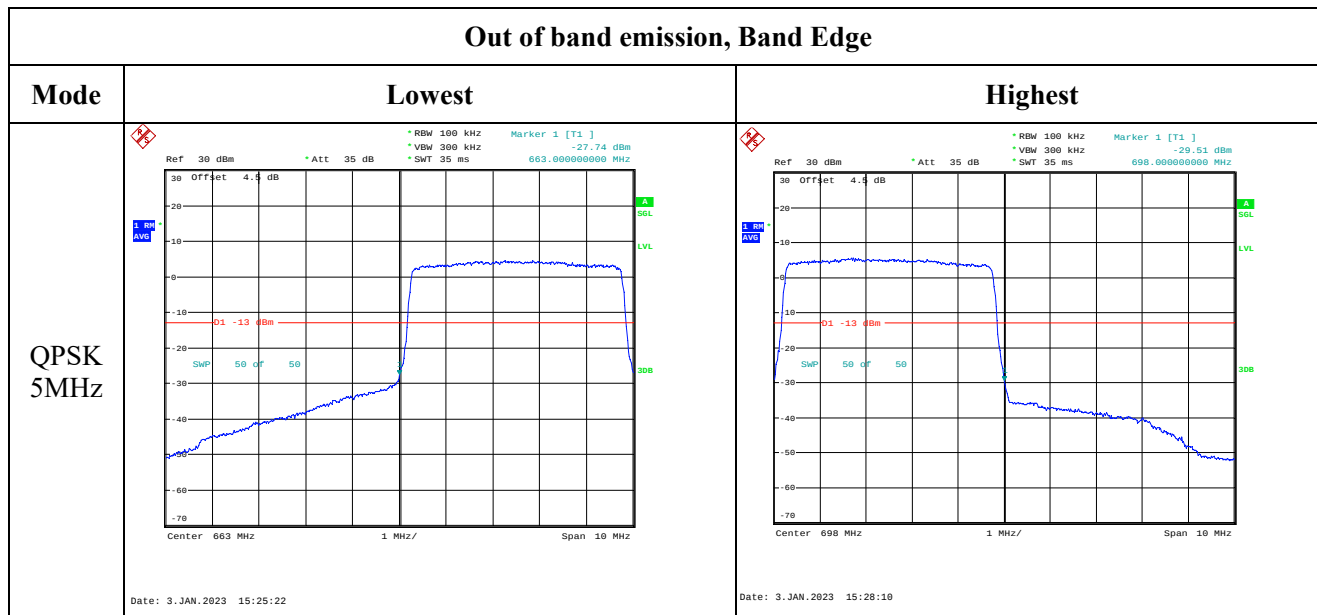
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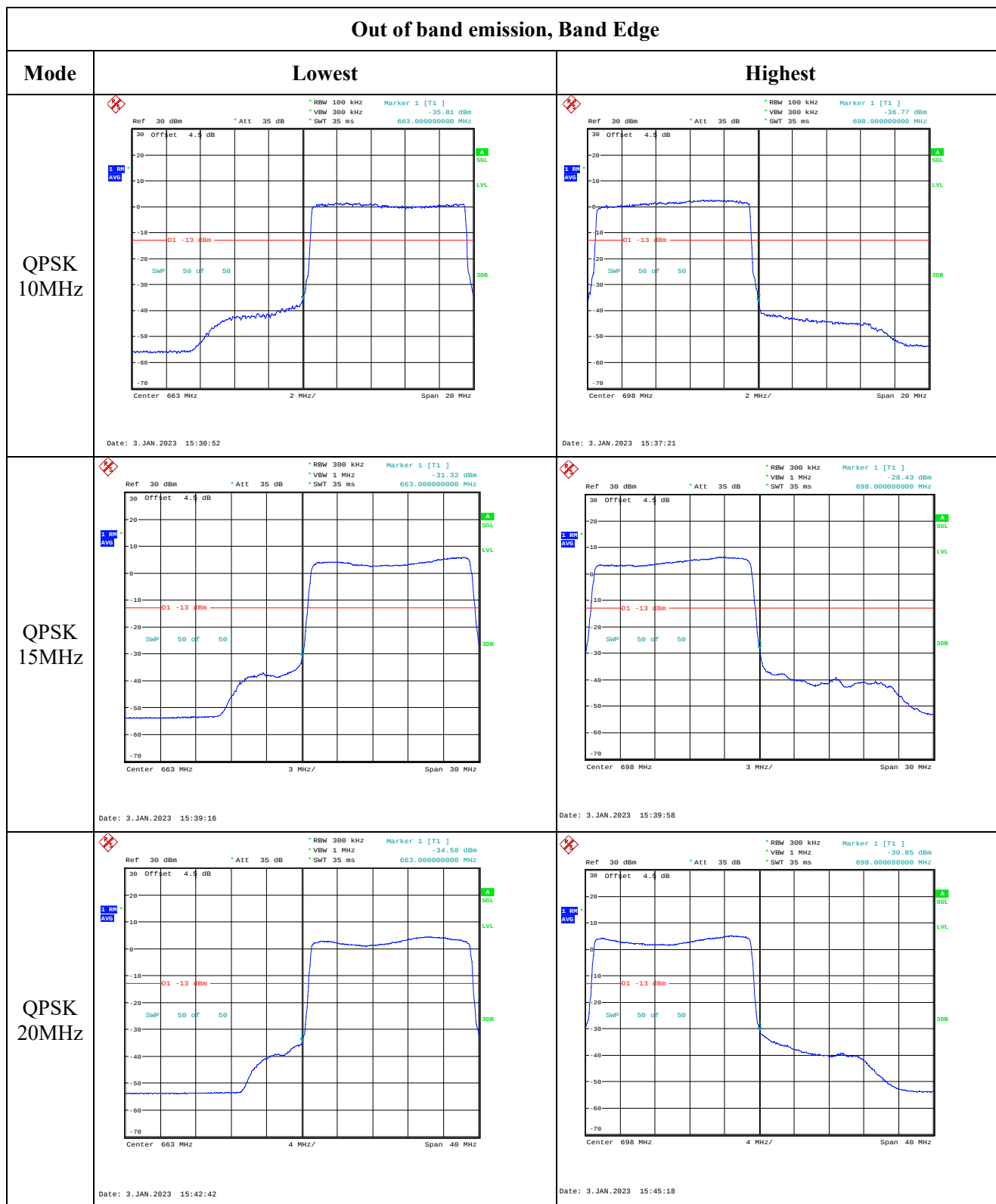
Highest



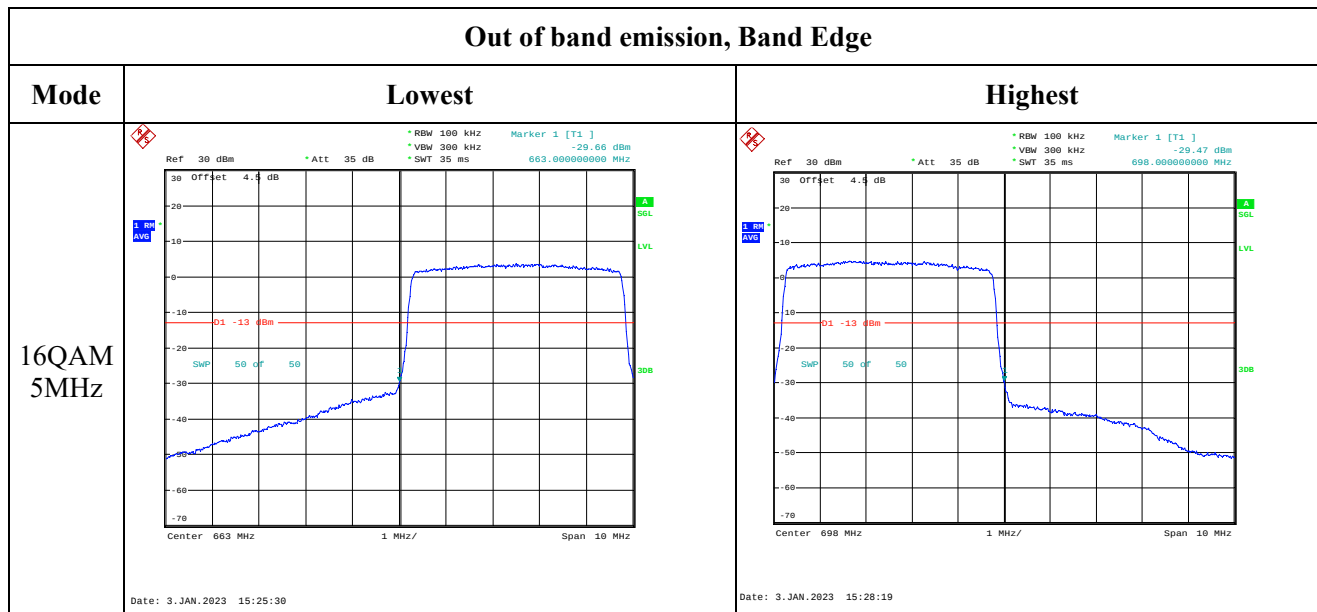
Out of band emission, Band Edge



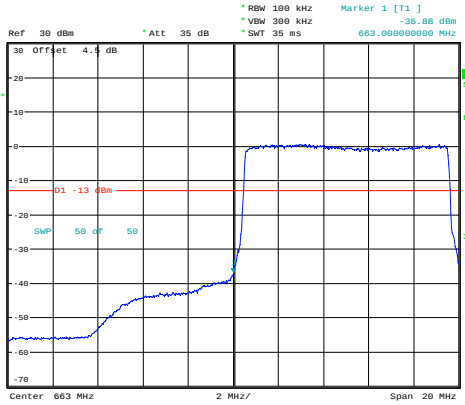
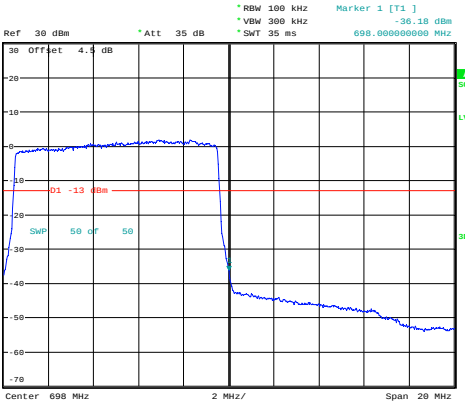
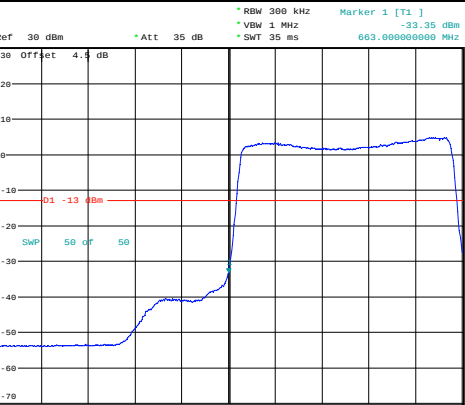
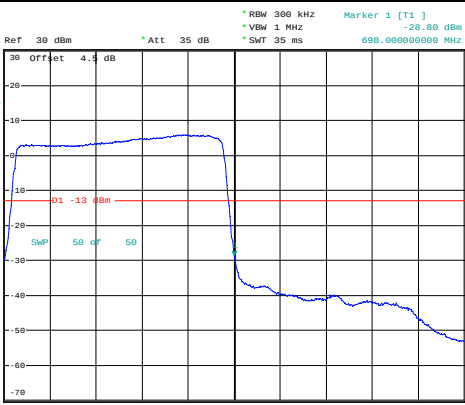
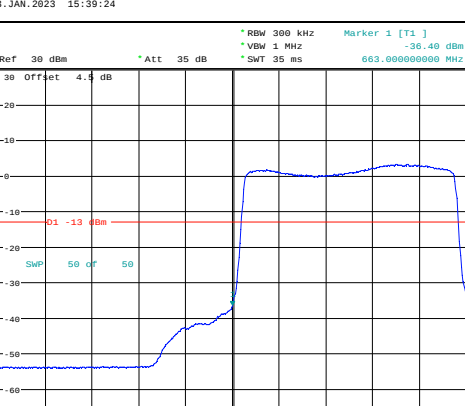
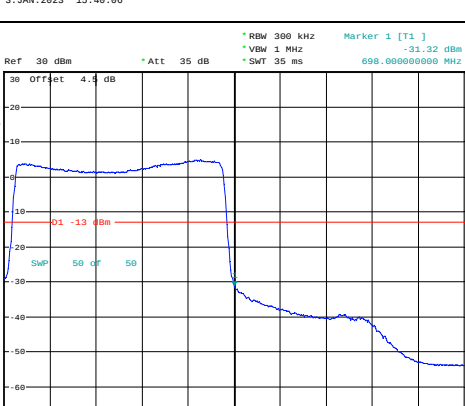
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz	 Ref 30 dBm * Att 35 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -36.88 dBm 663.000000000 MHz Center 663 MHz 2 MHz/ Span 20 MHz Date: 3.JAN.2023 15:31:01	 Ref 30 dBm * Att 35 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -36.18 dBm 698.000000000 MHz Center 698 MHz 2 MHz/ Span 20 MHz Date: 3.JAN.2023 15:37:31
16QAM 15MHz	 Ref 30 dBm * Att 35 dB * RBW 300 kHz * VBW 1 MHz * SWT 35 ms * Marker 1 [T1] -33.35 dBm 663.000000000 MHz Center 663 MHz 3 MHz/ Span 30 MHz Date: 3.JAN.2023 15:39:24	 Ref 30 dBm * Att 35 dB * RBW 300 kHz * VBW 1 MHz * SWT 35 ms * Marker 1 [T1] -28.80 dBm 698.000000000 MHz Center 698 MHz 3 MHz/ Span 30 MHz Date: 3.JAN.2023 15:40:06
16QAM 20MHz	 Ref 30 dBm * Att 35 dB * RBW 300 kHz * VBW 1 MHz * SWT 35 ms * Marker 1 [T1] -36.40 dBm 663.000000000 MHz Center 663 MHz 4 MHz/ Span 40 MHz Date: 3.JAN.2023 15:42:51	 Ref 30 dBm * Att 35 dB * RBW 300 kHz * VBW 1 MHz * SWT 35 ms * Marker 1 [T1] -31.32 dBm 698.000000000 MHz Center 698 MHz 4 MHz/ Span 40 MHz Date: 3.JAN.2023 15:45:27

4.14 Radiated Spurious Emissions

Serial Number:	1SNT-1	Test Date:	2022/12/19~2022/12/21
Test Site:	996-1/966-2	Test Mode:	Transmitting
Tester:	Carl Xue,Mack Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	20.5~21.8	Relative Humidity: (%)	37~44	ATM Pressure: (kPa)	101.2~101.8
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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
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
Agilent	Signal Generator	E8247C	MY43321352	2022/4/1	2023/3/31
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 (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 850 Frequency:824.2MHz								
589.10	H	21.50	-52.57	0.00	0.48	-53.05	-13.00	40.05
716.78	V	21.20	-48.35	0.00	0.50	-48.85	-13.00	35.85
1648.400	H	61.62	-42.71	8.68	0.80	-34.83	-13.00	21.83
1648.400	V	62.50	-41.91	8.68	0.80	-34.03	-13.00	21.03
2472.600	H	68.09	-32.69	9.38	1.00	-24.31	-13.00	11.31
2472.600	V	65.79	-34.94	9.38	1.00	-26.56	-13.00	13.56
3296.800	H	42.99	-53.69	10.32	1.15	-44.52	-13.00	31.52
3296.800	V	42.80	-53.64	10.32	1.15	-44.47	-13.00	31.47
GSM 850 Frequency:836.6MHz								
680.11	H	21.08	-52.35	0.00	0.52	-52.87	-13.00	39.87
721.82	V	20.99	-48.45	0.00	0.50	-48.95	-13.00	35.95
1673.200	H	64.28	-40.03	8.71	0.85	-32.17	-13.00	19.17
1673.200	V	64.95	-39.46	8.71	0.85	-31.60	-13.00	18.60
2509.800	H	71.38	-29.23	9.42	1.01	-20.82	-13.00	7.82
2509.800	V	67.55	-33.07	9.42	1.01	-24.66	-13.00	11.66
3346.400	H	43.53	-53.64	10.34	1.16	-44.46	-13.00	31.46
3346.400	V	43.10	-53.93	10.34	1.16	-44.75	-13.00	31.75
GSM 850 Frequency:848.8MHz								
724.37	H	21.43	-51.40	0.00	0.51	-51.91	-13.00	38.91
716.80	V	21.38	-48.17	0.00	0.50	-48.67	-13.00	35.67
1697.600	H	64.89	-39.40	8.74	0.90	-31.56	-13.00	18.56
1697.600	V	65.39	-39.03	8.74	0.90	-31.19	-13.00	18.19
2546.400	H	69.37	-30.96	9.47	1.01	-22.50	-13.00	9.50
2546.400	V	65.18	-35.10	9.47	1.01	-26.64	-13.00	13.64
3395.200	H	39.88	-57.81	10.36	1.19	-48.64	-13.00	35.64
3395.200	V	41.04	-56.62	10.36	1.19	-47.45	-13.00	34.45

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	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								
723.34	H	21.20	-51.65	0.00	0.50	-52.15	-13.00	39.15
726.25	V	21.01	-48.34	0.00	0.52	-48.86	-13.00	35.86
1652.800	H	41.80	-62.53	8.68	0.81	-54.66	-13.00	41.66
1652.800	V	42.61	-61.80	8.68	0.81	-53.93	-13.00	40.93
2479.200	H	39.45	-61.31	9.39	1.01	-52.93	-13.00	39.93
2479.200	V	35.13	-65.60	9.39	1.01	-57.22	-13.00	44.22
3305.600	H	41.50	-55.23	10.32	1.15	-46.06	-13.00	33.06
3305.600	V	42.22	-54.28	10.32	1.15	-45.11	-13.00	32.11
WCDMA Band 5 Frequency:836.6MHz								
713.65	H	21.46	-51.58	0.00	0.51	-52.09	-13.00	39.09
711.71	V	20.73	-48.93	0.00	0.51	-49.44	-13.00	36.44
1673.200	H	35.46	-68.85	8.71	0.85	-60.99	-13.00	47.99
1673.200	V	37.52	-66.89	8.71	0.85	-59.03	-13.00	46.03
2509.800	H	44.89	-55.72	9.42	1.01	-47.31	-13.00	34.31
2509.800	V	41.59	-59.03	9.42	1.01	-50.62	-13.00	37.62
3346.400	H	49.68	-47.49	10.34	1.16	-38.31	-13.00	25.31
3346.400	V	50.27	-46.76	10.34	1.16	-37.58	-13.00	24.58
WCDMA Band 5 Frequency:846.6MHz								
719.47	H	21.32	-51.61	0.00	0.49	-52.10	-13.00	39.10
684.58	V	20.89	-49.31	0.00	0.53	-49.84	-13.00	36.84
1693.200	H	40.97	-63.33	8.73	0.89	-55.49	-13.00	42.49
1693.200	V	42.38	-62.04	8.73	0.89	-54.20	-13.00	41.20
2539.800	H	39.42	-60.96	9.46	1.01	-52.51	-13.00	39.51
2539.800	V	40.67	-59.67	9.46	1.01	-51.22	-13.00	38.22
3386.400	H	51.67	-45.92	10.35	1.18	-36.75	-13.00	23.75
3386.400	V	51.01	-46.53	10.35	1.18	-37.36	-13.00	24.36

PCS Band (PART 24E)**30 MHz-20 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 1900 Frequency:1850.2MHz								
729.45	H	20.97	-51.76	0.00	0.53	-52.29	-13.00	39.29
716.79	V	21.18	-48.37	0.00	0.50	-48.87	-13.00	35.87
3700.400	H	34.83	-62.49	10.60	1.25	-53.14	-13.00	40.14
3700.400	V	34.12	-63.18	10.60	1.25	-53.83	-13.00	40.83
5550.600	H	37.86	-55.40	11.44	1.49	-45.45	-13.00	32.45
5550.600	V	35.48	-57.62	11.44	1.49	-47.67	-13.00	34.67
GSM 1900 Frequency:1880MHz								
706.81	H	21.46	-51.72	0.00	0.54	-52.26	-13.00	39.26
724.36	V	21.27	-48.12	0.00	0.51	-48.63	-13.00	35.63
3760.000	H	35.02	-61.39	10.66	1.24	-51.97	-13.00	38.97
3760.000	V	34.24	-62.05	10.66	1.24	-52.63	-13.00	39.63
5640.000	H	34.36	-59.09	11.33	1.54	-49.30	-13.00	36.30
5640.000	V	35.62	-57.71	11.33	1.54	-47.92	-13.00	34.92
GSM 1900 Frequency:1909.8MHz								
732.14	H	21.53	-51.14	0.00	0.53	-51.67	-13.00	38.67
719.43	V	21.28	-48.22	0.00	0.49	-48.71	-13.00	35.71
3819.600	H	34.26	-61.60	10.72	1.29	-52.17	-13.00	39.17
3819.600	V	33.57	-62.15	10.72	1.29	-52.72	-13.00	39.72
5729.400	H	34.12	-59.36	11.22	1.59	-49.73	-13.00	36.73
5729.400	V	35.01	-58.35	11.22	1.59	-48.72	-13.00	35.72

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	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								
796.02	H	20.71	-50.67	0.00	0.60	-51.27	-13.00	38.27
723.34	V	20.41	-49.00	0.00	0.50	-49.50	-13.00	36.50
3704.800	H	39.76	-57.50	10.60	1.25	-48.15	-13.00	35.15
3704.800	V	35.24	-61.99	10.60	1.25	-52.64	-13.00	39.64
5557.200	H	36.68	-56.60	11.43	1.49	-46.66	-13.00	33.66
5557.200	V	41.49	-51.64	11.43	1.49	-41.70	-13.00	28.70
WCDMA Band II, Frequency:1880 MHz								
725.28	H	21.12	-51.69	0.00	0.51	-52.20	-13.00	39.20
660.35	V	21.39	-49.25	0.00	0.51	-49.76	-13.00	36.76
3760.000	H	36.12	-60.29	10.66	1.24	-50.87	-13.00	37.87
3760.000	V	34.45	-61.84	10.66	1.24	-52.42	-13.00	39.42
5640.000	H	46.75	-46.70	11.33	1.54	-36.91	-13.00	23.91
5640.000	V	46.02	-47.31	11.33	1.54	-37.52	-13.00	24.52
WCDMA Band II, Frequency:1907.6MHz								
711.71	H	20.61	-52.47	0.00	0.51	-52.98	-13.00	39.98
729.16	V	21.43	-47.85	0.00	0.53	-48.38	-13.00	35.38
3815.200	H	36.16	-59.69	10.72	1.29	-50.26	-13.00	37.26
3815.200	V	39.13	-56.56	10.72	1.29	-47.13	-13.00	34.13
5722.800	H	42.65	-50.84	11.23	1.58	-41.19	-13.00	28.19
5722.800	V	36.02	-57.33	11.23	1.58	-47.68	-13.00	34.68

AWS Band(Part 27)**30 MHz-20 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	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								
725.28	H	21.15	-51.66	0.00	0.51	-52.17	-13.00	39.17
729.16	V	20.68	-48.60	0.00	0.53	-49.13	-13.00	36.13
3424.800	H	40.02	-57.75	10.37	1.17	-48.55	-13.00	35.55
3424.800	V	35.11	-62.63	10.37	1.17	-53.43	-13.00	40.43
5137.200	H	47.69	-45.93	11.28	1.46	-36.11	-13.00	23.11
5137.200	V	46.77	-46.73	11.28	1.46	-36.91	-13.00	23.91
WCDMA Band IV, Frequency:1732.6 MHz								
698.15	H	21.01	-52.32	0.00	0.55	-52.87	-13.00	39.87
724.31	V	20.53	-48.86	0.00	0.51	-49.37	-13.00	36.37
3465.200	H	35.07	-62.74	10.39	1.15	-53.50	-13.00	40.50
3465.200	V	34.23	-63.54	10.39	1.15	-54.30	-13.00	41.30
5197.800	H	46.24	-47.89	11.32	1.44	-38.01	-13.00	25.01
5197.800	V	46.04	-47.94	11.32	1.44	-38.06	-13.00	25.06
WCDMA Band IV, Frequency:1752.6MHz								
697.18	H	20.89	-52.45	0.00	0.55	-53.00	-13.00	40.00
476.24	V	20.62	-51.90	0.00	0.42	-52.32	-13.00	39.32
3505.200	H	34.56	-63.27	10.41	1.18	-54.04	-13.00	41.04
3505.200	V	39.83	-57.94	10.41	1.18	-48.71	-13.00	35.71
5257.800	H	45.63	-48.10	11.35	1.47	-38.22	-13.00	25.22
5257.800	V	41.03	-52.48	11.35	1.47	-42.60	-13.00	29.60

LTE Bands:

(The Worst modulation and bandwidth was below)

LTE Band 2 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK,Frequency:1850.7 MHz								
723.34	H	20.89	-51.96	0.00	0.50	-52.46	-13.00	39.46
702.02	V	21.31	-48.57	0.00	0.55	-49.12	-13.00	36.12
3701.400	H	42.99	-54.32	10.60	1.25	-44.97	-13.00	31.97
3701.400	V	38.53	-58.76	10.60	1.25	-49.41	-13.00	36.41
5552.100	H	50.10	-43.17	11.44	1.49	-33.22	-13.00	20.22
5552.100	V	46.42	-46.68	11.44	1.49	-36.73	-13.00	23.73
QPSK,Frequency:1880 MHz								
721.40	H	20.91	-51.98	0.00	0.50	-52.48	-13.00	39.48
724.31	V	21.32	-48.07	0.00	0.51	-48.58	-13.00	35.58
3760.000	H	41.56	-54.85	10.66	1.24	-45.43	-13.00	32.43
3760.000	V	37.44	-58.85	10.66	1.24	-49.43	-13.00	36.43
5640.000	H	53.65	-39.80	11.33	1.54	-30.01	-13.00	17.01
5640.000	V	49.73	-43.60	11.33	1.54	-33.81	-13.00	20.81
QPSK,Frequency:1909.3 MHz								
720.43	H	21.09	-51.82	0.00	0.49	-52.31	-13.00	39.31
706.87	V	21.46	-48.31	0.00	0.54	-48.85	-13.00	35.85
3818.600	H	39.61	-56.25	10.72	1.29	-46.82	-13.00	33.82
3818.600	V	39.88	-55.83	10.72	1.29	-46.40	-13.00	33.40
5727.900	H	43.42	-50.06	11.23	1.59	-40.42	-13.00	27.42
5727.900	V	40.04	-53.32	11.23	1.59	-43.68	-13.00	30.68
3818.600	H	39.61	-56.25	10.72	1.29	-46.82	-13.00	33.82
3818.600	V	39.88	-55.83	10.72	1.29	-46.40	-13.00	33.40

LTE Band 4 (30MHz-20GHz):

EME Data 1 (Continued)

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	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	21.57	-51.20	0.00	0.52	-51.72	-13.00	38.72
722.37	V	20.76	-48.67	0.00	0.50	-49.17	-13.00	36.17
3421.400	H	43.89	-53.87	10.37	1.17	-44.67	-13.00	31.67
3421.400	V	41.94	-55.79	10.37	1.17	-46.59	-13.00	33.59
5132.100	H	44.47	-49.10	11.28	1.47	-39.29	-13.00	26.29
5132.100	V	41.46	-52.00	11.28	1.47	-42.19	-13.00	29.19
QPSK,Frequency:1732.5 MHz								
701.05	H	21.46	-51.84	0.00	0.55	-52.39	-13.00	39.39
704.93	V	20.63	-49.18	0.00	0.55	-49.73	-13.00	36.73
3465.000	H	40.70	-57.11	10.39	1.15	-47.87	-13.00	34.87
3465.000	V	40.65	-57.12	10.39	1.15	-47.88	-13.00	34.88
5197.500	H	46.66	-47.47	11.32	1.44	-37.59	-13.00	24.59
5197.500	V	46.60	-47.38	11.32	1.44	-37.50	-13.00	24.50
QPSK,Frequency:1754.3MHz								
723.34	H	20.92	-51.93	0.00	0.50	-52.43	-13.00	39.43
728.19	V	21.14	-48.17	0.00	0.52	-48.69	-13.00	35.69
3508.600	H	35.67	-62.15	10.41	1.19	-52.93	-13.00	39.93
3508.600	V	36.23	-61.53	10.41	1.19	-52.31	-13.00	39.31
5262.900	H	44.18	-49.52	11.36	1.47	-39.63	-13.00	26.63
5262.900	V	41.16	-52.31	11.36	1.47	-42.42	-13.00	29.42

LTE Band 5(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 824.7 MHz								
723.34	H	21.44	-51.41	0.00	0.50	-51.91	-13.00	38.91
540.19	V	20.88	-50.76	0.00	0.46	-51.22	-13.00	38.22
1649.400	H	43.82	-60.51	8.68	0.80	-52.63	-13.00	39.63
1649.400	V	44.86	-59.55	8.68	0.80	-51.67	-13.00	38.67
2474.100	H	46.61	-54.17	9.38	1.00	-45.79	-13.00	32.79
2474.100	V	43.44	-57.29	9.38	1.00	-48.91	-13.00	35.91
3298.800	H	51.08	-45.60	10.32	1.15	-36.43	-13.00	23.43
3298.800	V	46.72	-49.72	10.32	1.15	-40.55	-13.00	27.55
QPSK, Frequency: 836.5 MHz								
186.50	H	21.46	-59.70	0.00	0.26	-59.96	-13.00	46.96
648.73	V	20.93	-49.92	0.00	0.52	-50.44	-13.00	37.44
1673.000	H	35.12	-69.19	8.71	0.85	-61.33	-13.00	48.33
1673.000	V	40.23	-64.18	8.71	0.85	-56.32	-13.00	43.32
2509.500	H	49.76	-50.85	9.42	1.01	-42.44	-13.00	29.44
2509.500	V	47.07	-53.55	9.42	1.01	-45.14	-13.00	32.14
3346.000	H	53.25	-43.91	10.34	1.16	-34.73	-13.00	21.73
3346.000	V	53.88	-43.14	10.34	1.16	-33.96	-13.00	20.96
QPSK, Frequency: 848.3 MHz								
510.15	H	21.54	-54.09	0.00	0.45	-54.54	-13.00	41.54
721.40	V	20.85	-48.60	0.00	0.50	-49.10	-13.00	36.10
1696.600	H	43.98	-60.31	8.74	0.89	-52.46	-13.00	39.46
1696.600	V	42.84	-61.58	8.74	0.89	-53.73	-13.00	40.73
2544.900	H	47.35	-52.99	9.47	1.01	-44.53	-13.00	31.53
2544.900	V	42.94	-57.36	9.47	1.01	-48.90	-13.00	35.90
3393.200	H	57.25	-40.42	10.36	1.19	-31.25	-13.00	18.25
3393.200	V	57.10	-40.53	10.36	1.19	-31.36	-13.00	18.36

LTE Band 12 (30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 699.7 MHz								
787.30	H	21.13	-50.43	0.00	0.58	-51.01	-13.00	38.01
569.27	V	20.82	-50.86	0.00	0.46	-51.32	-13.00	38.32
1399.400	H	38.90	-64.80	8.22	0.71	-57.29	-13.00	44.29
1399.400	V	42.54	-61.21	8.22	0.71	-53.70	-13.00	40.70
2099.100	H	42.64	-59.24	9.16	0.91	-50.99	-13.00	37.99
2099.100	V	44.01	-57.82	9.16	0.91	-49.57	-13.00	36.57
2798.800	H	35.12	-64.81	9.88	1.04	-55.97	-13.00	42.97
2798.800	V	34.56	-65.24	9.88	1.04	-56.40	-13.00	43.40
QPSK, Frequency: 707.5 MHz								
484.96	H	21.30	-54.84	0.00	0.43	-55.27	-13.00	42.27
668.11	V	21.59	-48.91	0.00	0.50	-49.41	-13.00	36.41
1415.000	H	36.47	-67.20	8.26	0.72	-59.66	-13.00	46.66
1415.000	V	40.04	-63.68	8.26	0.72	-56.14	-13.00	43.14
2122.500	H	35.26	-66.73	9.17	0.92	-58.48	-13.00	45.48
2122.500	V	40.26	-61.71	9.17	0.92	-53.46	-13.00	40.46
2830.000	H	34.21	-65.59	9.93	1.06	-56.72	-13.00	43.72
2830.000	V	35.35	-64.38	9.93	1.06	-55.51	-13.00	42.51
QPSK, Frequency: 715.3 MHz								
563.45	H	21.11	-53.47	0.00	0.46	-53.93	-13.00	40.93
629.35	V	20.89	-50.31	0.00	0.48	-50.79	-13.00	37.79
1430.600	H	34.65	-68.98	8.31	0.73	-61.40	-13.00	48.40
1430.600	V	35.11	-68.58	8.31	0.73	-61.00	-13.00	48.00
2145.900	H	38.98	-63.12	9.19	0.93	-54.86	-13.00	41.86
2145.900	V	38.88	-63.23	9.19	0.93	-54.97	-13.00	41.97
2861.200	H	34.02	-65.63	9.98	1.07	-56.72	-13.00	43.72
2861.200	V	33.68	-65.99	9.98	1.07	-57.08	-13.00	44.08

LTE Band 17 (30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 706.5 MHz								
667.14	H	21.19	-52.31	0.00	0.50	-52.81	-13.00	39.81
557.64	V	21.13	-50.54	0.00	0.48	-51.02	-13.00	38.02
1413.000	H	35.11	-68.56	8.26	0.72	-61.02	-13.00	48.02
1413.000	V	34.62	-69.10	8.26	0.72	-61.56	-13.00	48.56
2119.500	H	36.86	-65.11	9.17	0.92	-56.86	-13.00	43.86
2119.500	V	40.47	-61.48	9.17	0.92	-53.23	-13.00	40.23
2826.000	H	34.23	-65.58	9.92	1.06	-56.72	-13.00	43.72
2826.000	V	34.03	-65.71	9.92	1.06	-56.85	-13.00	43.85
QPSK, Frequency: 710 MHz								
662.29	H	21.07	-52.45	0.00	0.51	-52.96	-13.00	39.96
605.12	V	21.11	-50.53	0.00	0.50	-51.03	-13.00	38.03
1420.000	H	34.28	-69.38	8.28	0.73	-61.83	-13.00	48.83
1420.000	V	34.00	-69.71	8.28	0.73	-62.16	-13.00	49.16
2130.000	H	38.65	-63.37	9.18	0.92	-55.11	-13.00	42.11
2130.000	V	39.12	-62.89	9.18	0.92	-54.63	-13.00	41.63
2840.000	H	35.12	-64.63	9.94	1.06	-55.75	-13.00	42.75
2840.000	V	34.22	-65.49	9.94	1.06	-56.61	-13.00	43.61
QPSK, Frequency: 713.5 MHz								
562.48	H	21.28	-53.32	0.00	0.47	-53.79	-13.00	40.79
642.91	V	20.76	-50.19	0.00	0.52	-50.71	-13.00	37.71
1427.000	H	39.47	-64.17	8.30	0.73	-56.60	-13.00	43.60
1427.000	V	40.57	-63.12	8.30	0.73	-55.55	-13.00	42.55
2140.500	H	39.68	-62.39	9.18	0.93	-54.14	-13.00	41.14
2140.500	V	38.00	-64.08	9.18	0.93	-55.83	-13.00	42.83
2854.000	H	35.46	-64.23	9.97	1.07	-55.33	-13.00	42.33
2854.000	V	34.71	-64.97	9.97	1.07	-56.07	-13.00	43.07

LTE Band 41(30MHz-26.5GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK,Frequency:2557.5MHz								
727.02	H	21.10	-51.67	0.00	0.52	-52.19	-25.00	27.19
714.18	V	20.76	-48.85	0.00	0.50	-49.35	-25.00	24.35
5115.000	H	34.23	-59.20	11.27	1.51	-49.44	-25.00	24.44
5115.000	V	34.07	-59.26	11.27	1.51	-49.50	-25.00	24.50
7672.500	H	35.45	-54.06	10.87	2.03	-45.22	-25.00	20.22
7672.500	V	34.32	-55.87	10.87	2.03	-47.03	-25.00	22.03
QPSK,Frequency:2605 MHz								
716.49	H	21.47	-51.52	0.00	0.50	-52.02	-25.00	27.02
729.35	V	21.07	-48.21	0.00	0.53	-48.74	-25.00	23.74
5210.000	H	35.12	-58.96	11.33	1.45	-49.08	-25.00	24.08
5210.000	V	34.33	-59.59	11.33	1.45	-49.71	-25.00	24.71
7815.000	H	34.02	-55.38	10.84	1.99	-46.53	-25.00	21.53
7815.000	V	35.29	-54.50	10.84	1.99	-45.65	-25.00	20.65
QPSK,Frequency:2652.5MHz								
714.39	H	21.16	-51.87	0.00	0.50	-52.37	-25.00	27.37
5305.000	H	35.46	-57.98	11.38	1.46	-48.06	-25.00	23.06
5305.000	V	35.11	-58.07	11.38	1.46	-48.15	-25.00	23.15
7957.500	H	34.08	-54.34	10.81	2.09	-45.62	-25.00	20.62
7957.500	V	35.27	-53.60	10.81	2.09	-44.88	-25.00	19.88

LTE Band 66 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1710.7 MHz								
721.40	H	21.06	-51.83	0.00	0.50	-52.33	-13.00	39.33
689.43	V	21.11	-49.00	0.00	0.54	-49.54	-13.00	36.54
3421.400	H	42.26	-55.50	10.37	1.17	-46.30	-13.00	33.30
3421.400	V	42.53	-55.20	10.37	1.17	-46.00	-13.00	33.00
5132.100	H	37.69	-55.88	11.28	1.47	-46.07	-13.00	33.07
5132.100	V	42.87	-50.59	11.28	1.47	-40.78	-13.00	27.78
QPSK, Frequency:1745 MHz								
494.65	H	21.40	-54.54	0.00	0.45	-54.99	-13.00	41.99
729.16	V	21.17	-48.11	0.00	0.53	-48.64	-13.00	35.64
3490.000	H	36.47	-61.37	10.40	1.17	-52.14	-13.00	39.14
3490.000	V	35.14	-62.64	10.40	1.17	-53.41	-13.00	40.41
5235.000	H	46.75	-47.15	11.34	1.46	-37.27	-13.00	24.27
5235.000	V	46.70	-47.01	11.34	1.46	-37.13	-13.00	24.13
QPSK, Frequency: 1779.3 MHz								
724.31	H	21.47	-51.36	0.00	0.51	-51.87	-13.00	38.87
719.47	V	21.15	-48.35	0.00	0.49	-48.84	-13.00	35.84
3558.600	H	37.24	-60.43	10.46	1.22	-51.19	-13.00	38.19
3558.600	V	35.12	-62.45	10.46	1.22	-53.21	-13.00	40.21
5337.900	H	41.11	-52.36	11.40	1.47	-42.43	-13.00	29.43
5337.900	V	44.22	-49.11	11.40	1.47	-39.18	-13.00	26.18

LTE Band 71 (30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 665.5 MHz								
621.59	H	21.17	-52.57	0.00	0.49	-53.06	-13.00	40.06
618.69	V	24.51	-46.88	0.00	0.49	-47.37	-13.00	34.37
1331.000	H	36.75	-66.28	8.03	0.76	-59.01	-13.00	46.01
1331.000	V	35.46	-67.90	8.03	0.76	-60.63	-13.00	47.63
1996.500	H	35.33	-66.83	9.10	0.89	-58.62	-13.00	45.62
1996.500	V	34.78	-66.76	9.10	0.89	-58.55	-13.00	45.55
2662.000	H	38.69	-61.27	9.66	1.06	-52.67	-13.00	39.67
2662.000	V	45.34	-54.54	9.66	1.06	-45.94	-13.00	32.94
QPSK, Frequency:680.5 MHz								
565.39	H	21.14	-53.40	0.00	0.46	-53.86	-13.00	40.86
632.25	V	25.48	-45.67	0.00	0.50	-46.17	-13.00	33.17
1361.000	H	34.65	-68.68	8.11	0.77	-61.34	-13.00	48.34
1361.000	V	35.11	-68.42	8.11	0.77	-61.08	-13.00	48.08
2041.500	H	41.29	-60.74	9.12	0.91	-52.53	-13.00	39.53
2041.500	V	37.78	-63.86	9.12	0.91	-55.65	-13.00	42.65
2722.000	H	35.27	-64.70	9.76	1.05	-55.99	-13.00	42.99
2722.000	V	34.05	-65.86	9.76	1.05	-57.15	-13.00	44.15
QPSK, Frequency: 695.5 MHz								
650.66	H	21.50	-52.09	0.00	0.52	-52.61	-13.00	39.61
648.73	V	26.52	-44.33	0.00	0.52	-44.85	-13.00	31.85
1391.000	H	36.12	-67.50	8.19	0.72	-60.03	-13.00	47.03
1391.000	V	35.07	-68.63	8.19	0.72	-61.16	-13.00	48.16
2086.500	H	38.44	-63.47	9.15	0.91	-55.23	-13.00	42.23
2086.500	V	39.64	-62.15	9.15	0.91	-53.91	-13.00	40.91
2782.000	H	35.13	-64.81	9.85	1.05	-56.01	-13.00	43.01
2782.000	V	35.63	-64.20	9.85	1.05	-55.40	-13.00	42.40

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 =====