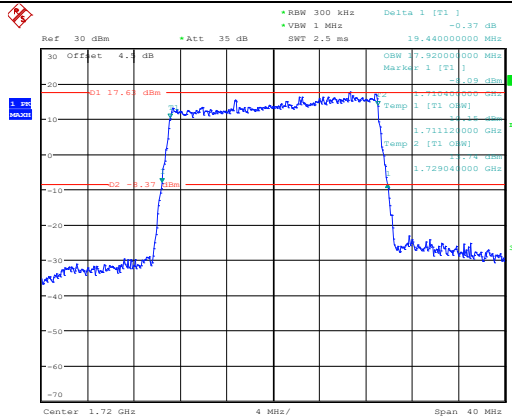
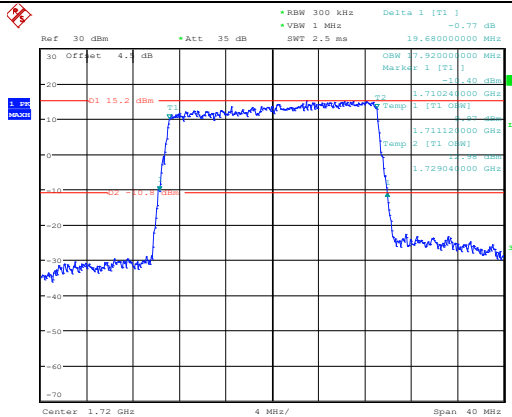
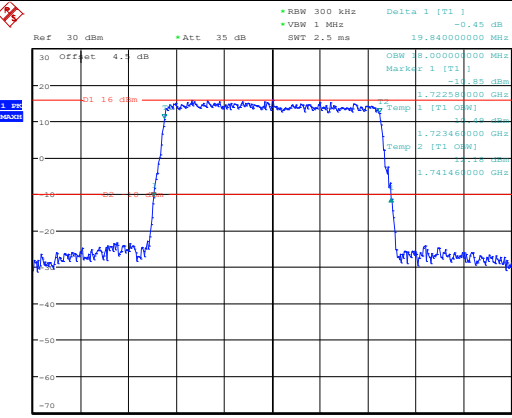
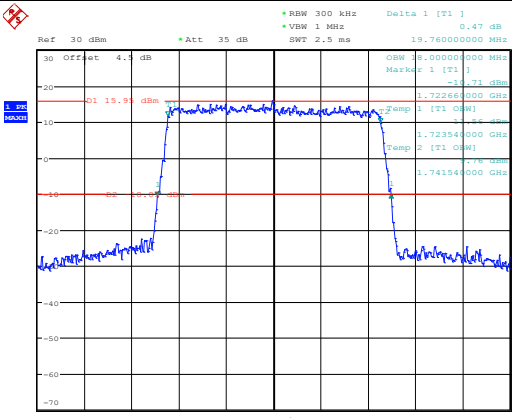
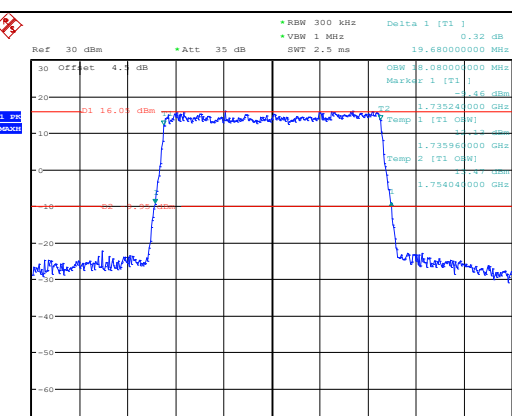
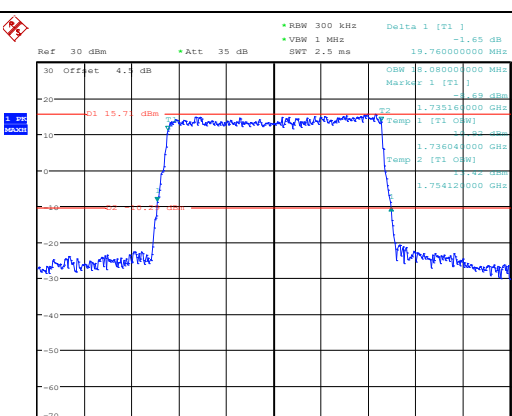


Occupied Bandwidth

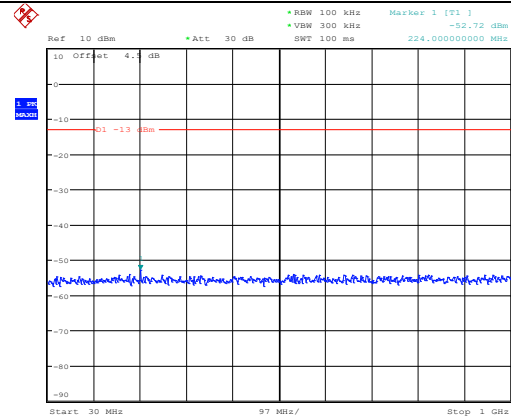
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	 Date: 22.FEB.2023 18:11:24	 Date: 22.FEB.2023 18:11:42
Middle	 Date: 22.FEB.2023 18:12:01	 Date: 22.FEB.2023 18:12:16
Highest	 Date: 22.FEB.2023 18:12:35	 Date: 22.FEB.2023 18:12:53

Spurious Emissions at Antenna Terminal

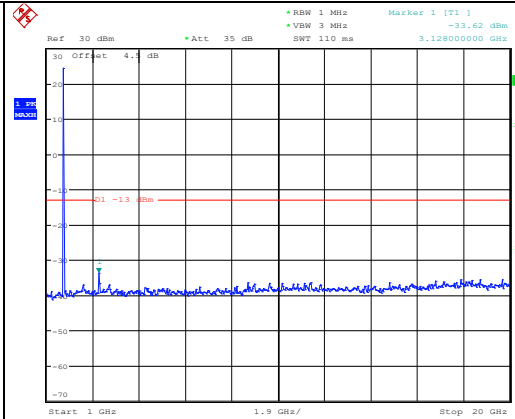
Channel

1.4MHz Bandwidth QPSK

Lowest

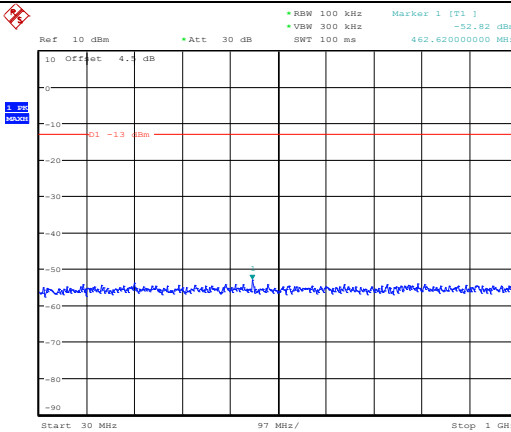


Date: 22.FEB.2023 19:07:45

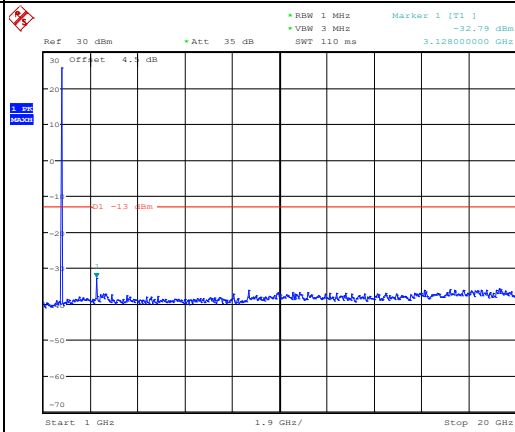


Date: 22.FEB.2023 19:07:58

Middle

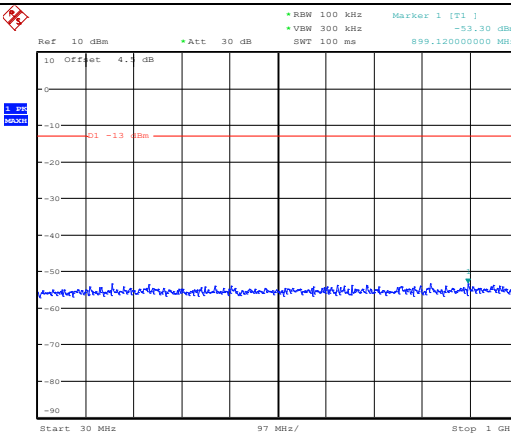


Date: 22.FEB.2023 19:08:13

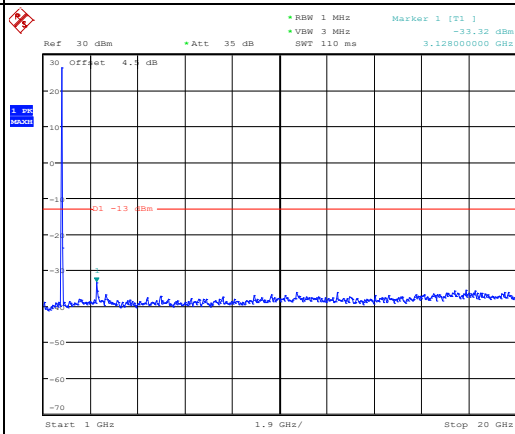


Date: 22.FEB.2023 19:08:26

Highest



Date: 22.FEB.2023 19:08:45



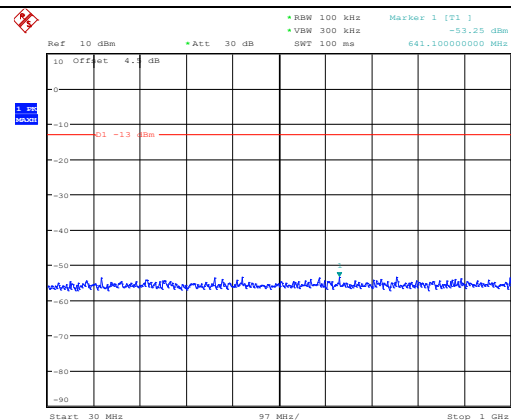
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Spurious Emissions at Antenna Terminal

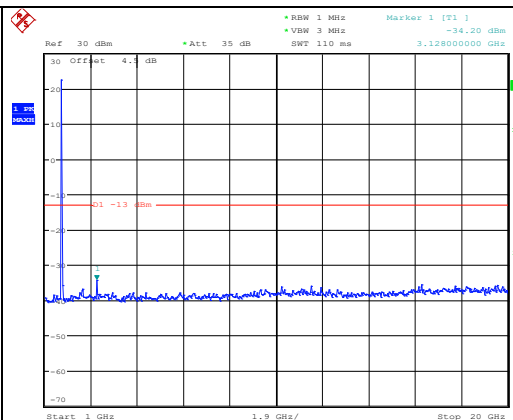
Channel

3MHz Bandwidth QPSK

Lowest

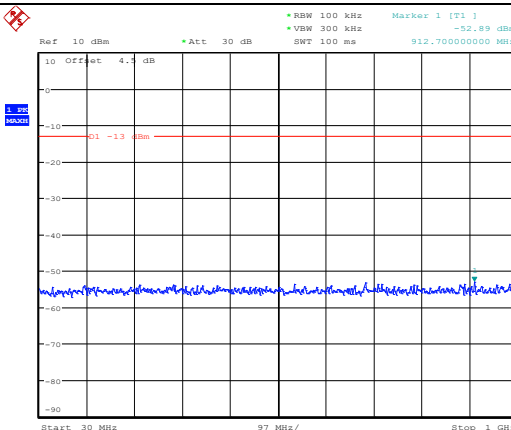


Date: 22.FEB.2023 19:09:15

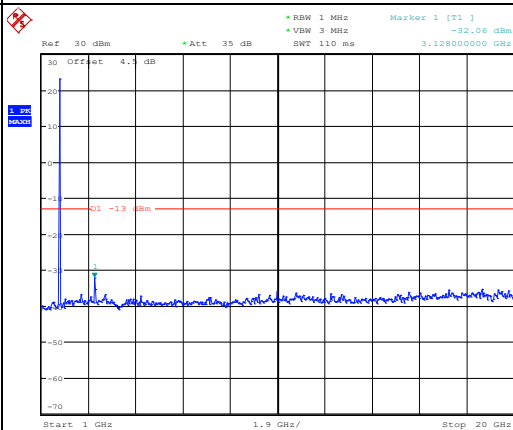


Date: 22.FEB.2023 19:09:28

Middle

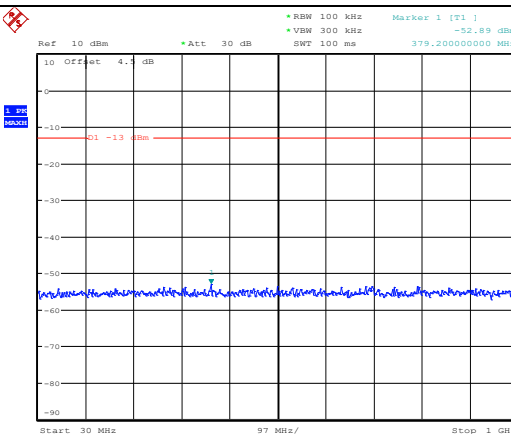


Date: 22.FEB.2023 19:09:47

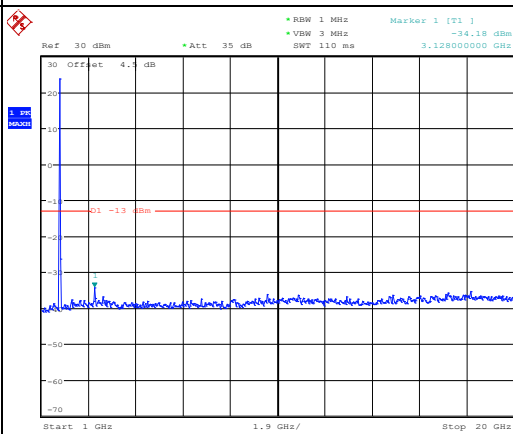


Date: 22.FEB.2023 19:09:59

Highest

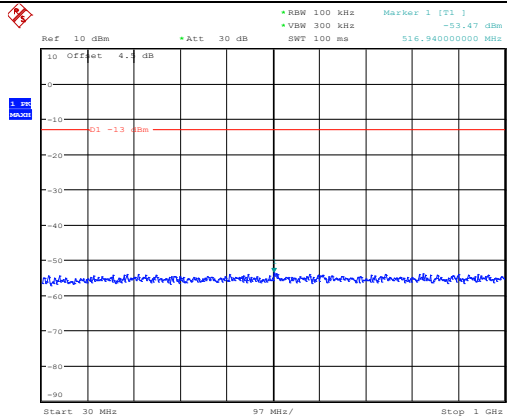
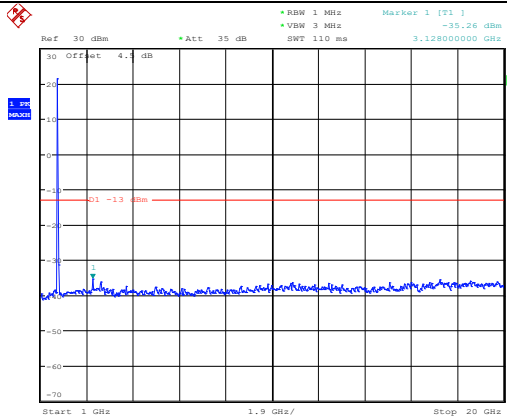
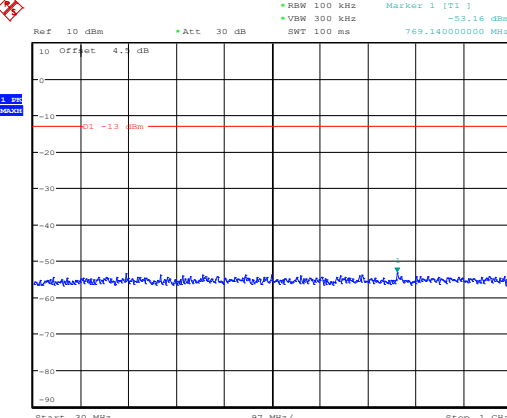
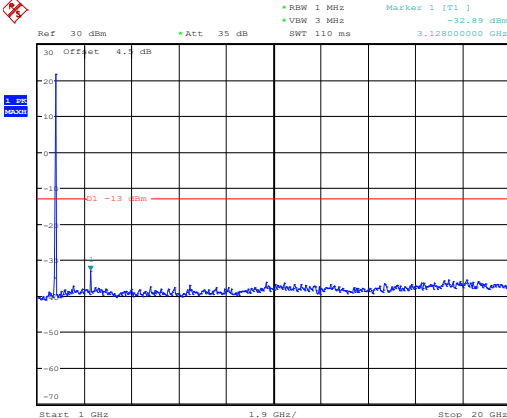
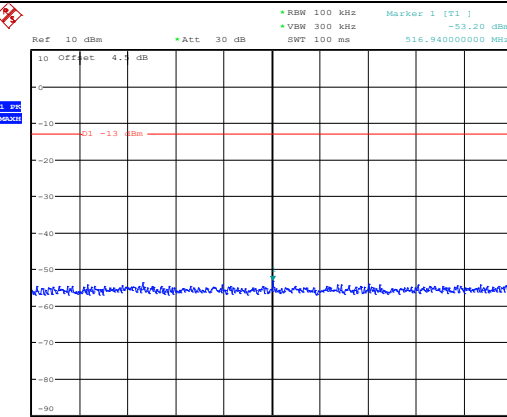
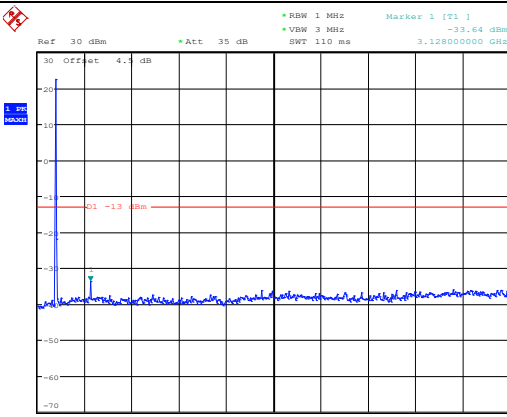


Date: 22.FEB.2023 19:10:18



Date: 22.FEB.2023 19:10:31

Spurious Emissions at Antenna Terminal

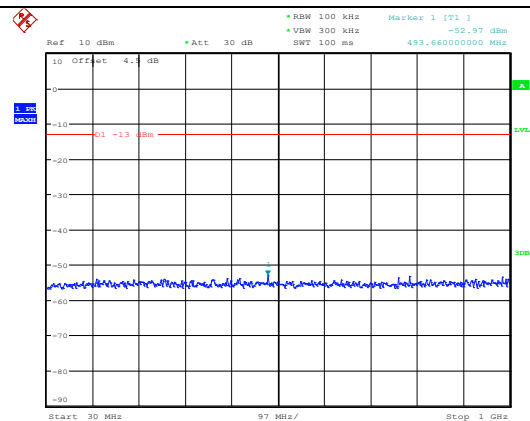
Channel	5MHz Bandwidth QPSK	
Lowest	 Ref: 10 dBm Att: 30 dB RBW: 100 kHz VSW: 300 kHz SWT: 100 ms Marker 1 [T1]: -53.47 dBm 516.940000000 MHz Start: 30 MHz 97 MHz/ Stop: 1 GHz Date: 22.FEB.2023 19:10:53	 Ref: 30 dBm Att: 35 dB RBW: 1 MHz VSW: 3 MHz SWT: 110 ms Marker 1 [T1]: -35.26 dBm 3.128000000 GHz Start: 1 GHz 1.9 GHz/ Stop: 20 GHz Date: 22.FEB.2023 19:11:06
	 Ref: 10 dBm Att: 30 dB RBW: 100 kHz VSW: 300 kHz SWT: 100 ms Marker 1 [T1]: -53.16 dBm 769.140000000 MHz Start: 30 MHz 97 MHz/ Stop: 1 GHz Date: 22.FEB.2023 19:11:25	 Ref: 30 dBm Att: 35 dB RBW: 1 MHz VSW: 3 MHz SWT: 110 ms Marker 1 [T1]: -32.89 dBm 3.128000000 GHz Start: 1 GHz 1.9 GHz/ Stop: 20 GHz Date: 22.FEB.2023 19:11:37
Middle	 Ref: 10 dBm Att: 30 dB RBW: 100 kHz VSW: 300 kHz SWT: 100 ms Marker 1 [T1]: -53.20 dBm 516.940000000 MHz Start: 30 MHz 97 MHz/ Stop: 1 GHz Date: 22.FEB.2023 19:11:53	 Ref: 30 dBm Att: 35 dB RBW: 1 MHz VSW: 3 MHz SWT: 110 ms Marker 1 [T1]: -33.64 dBm 3.128000000 GHz Start: 1 GHz 1.9 GHz/ Stop: 20 GHz Date: 22.FEB.2023 19:12:06
Highest		

Spurious Emissions at Antenna Terminal

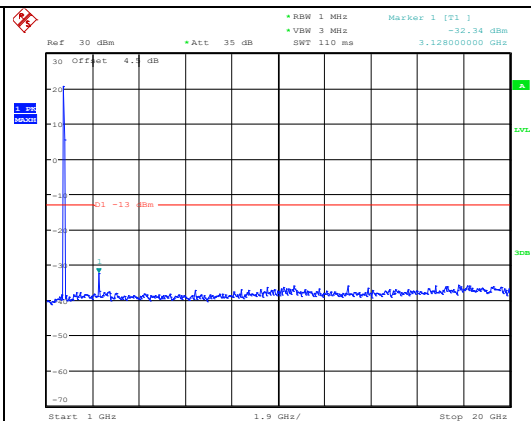
Channel

10MHz Bandwidth QPSK

Lowest

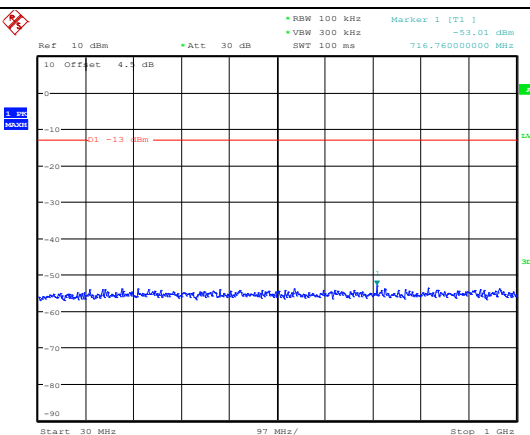


Date: 22.FEB.2023 19:12:28

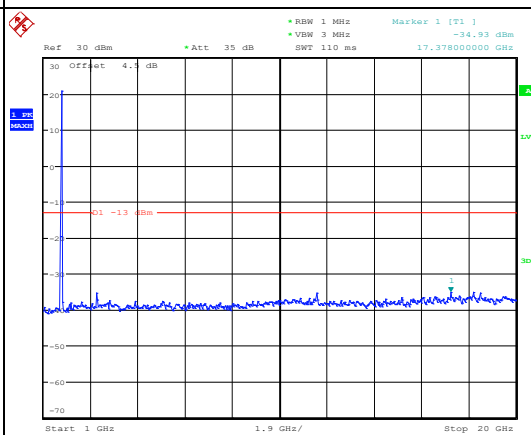


Date: 22.FEB.2023 19:12:41

Middle

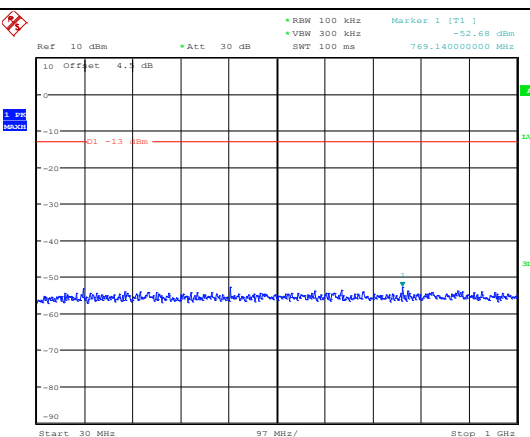


Date: 22.FEB.2023 19:13:00

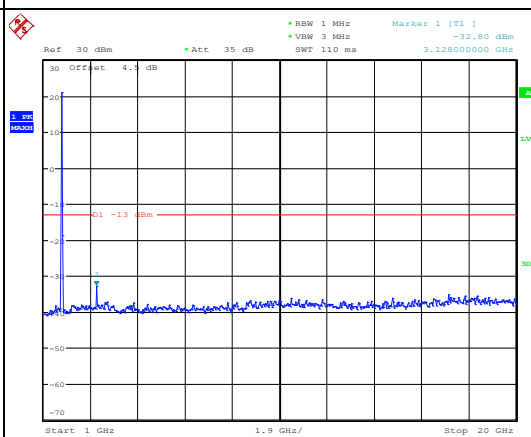


Date: 22.FEB.2023 19:13:13

Highest



Date: 22.FEB.2023 19:13:29



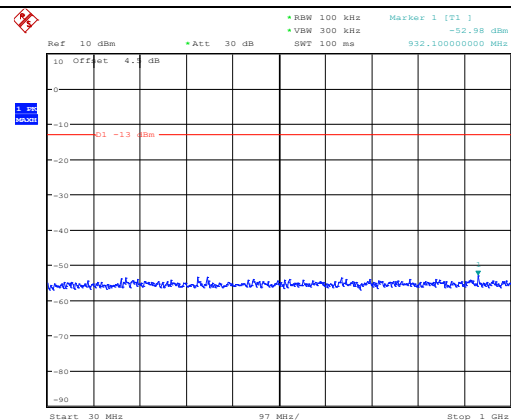
Date: 22.FEB.2023 19:13:42

Spurious Emissions at Antenna Terminal

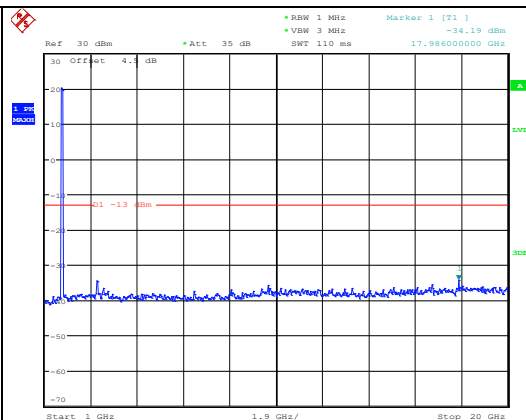
Channel

15MHz Bandwidth QPSK

Lowest

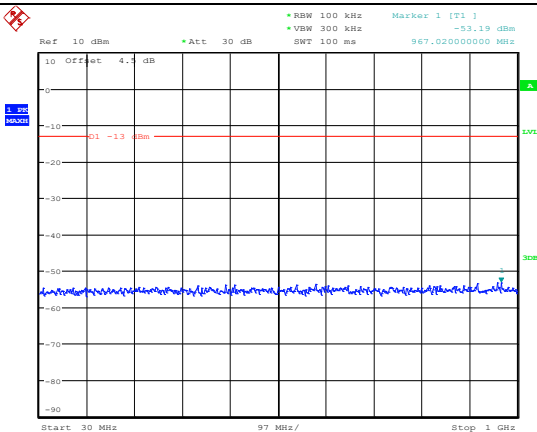


Date: 22.FEB.2023 19:14:05

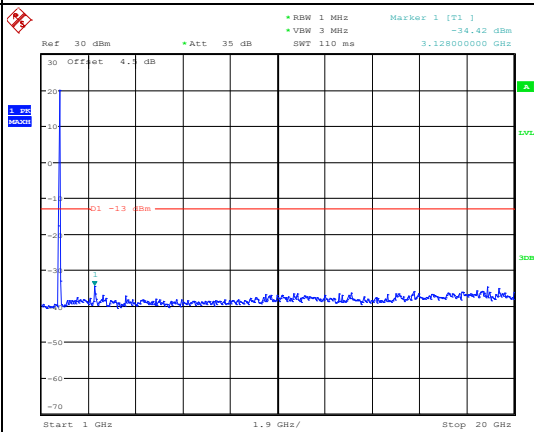


Date: 22.FEB.2023 19:14:10

Middle

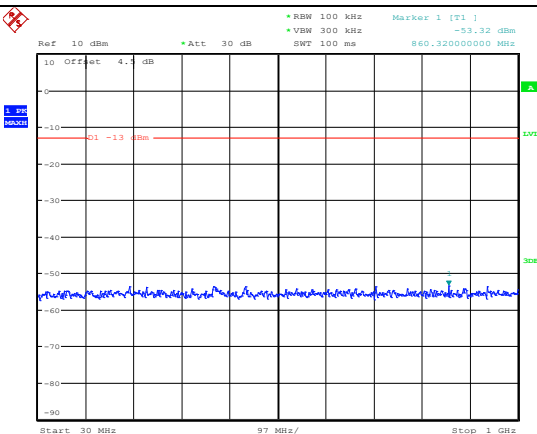


Date: 22.FEB.2023 19:14:37

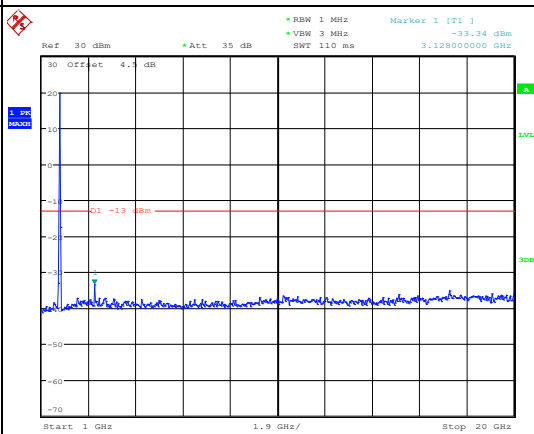


Date: 22.FEB.2023 19:14:50

Highest



Date: 22.FEB.2023 19:15:06



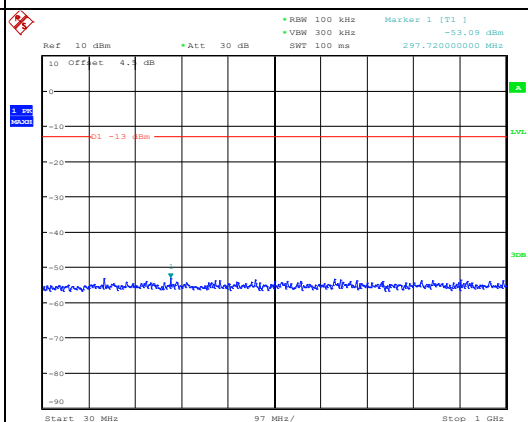
Date: 22.FEB.2023 19:15:19

Spurious Emissions at Antenna Terminal

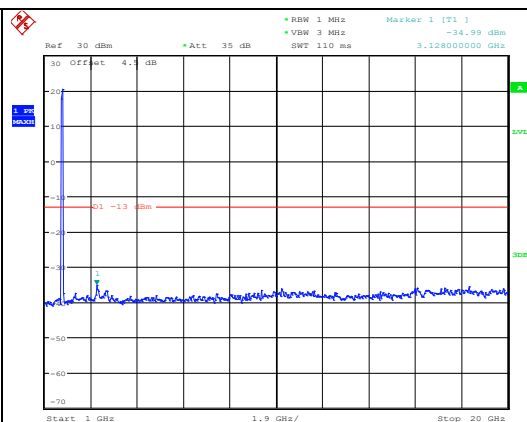
Channel

20MHz Bandwidth QPSK

Lowest

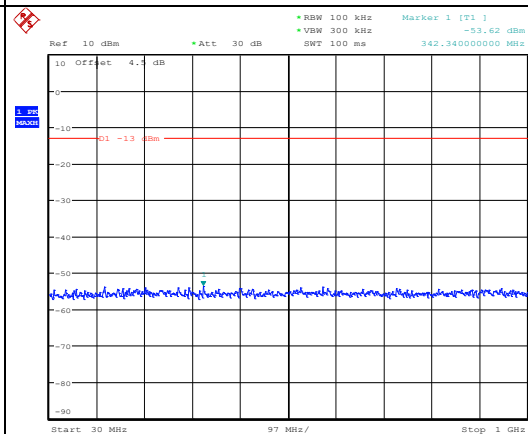


Date: 22.FEB.2023 19:15:41

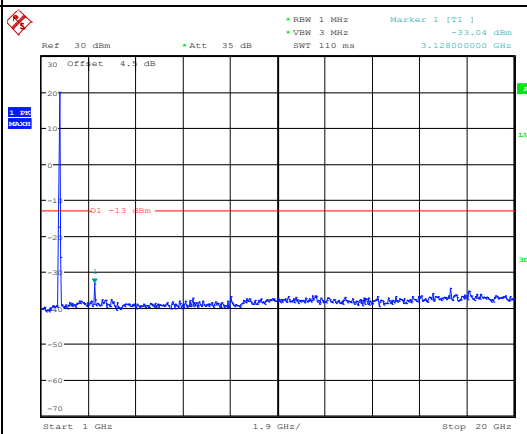


Date: 22.FEB.2023 19:15:54

Middle

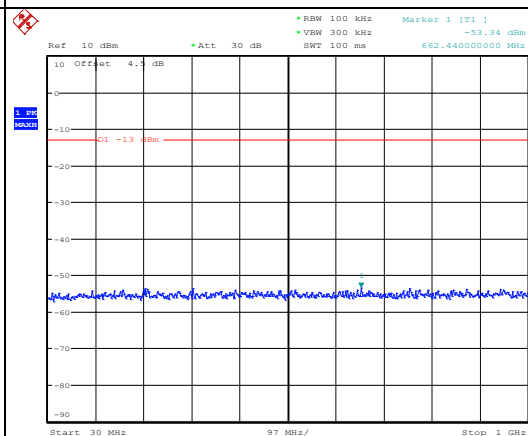


Date: 22.FEB.2023 19:16:10

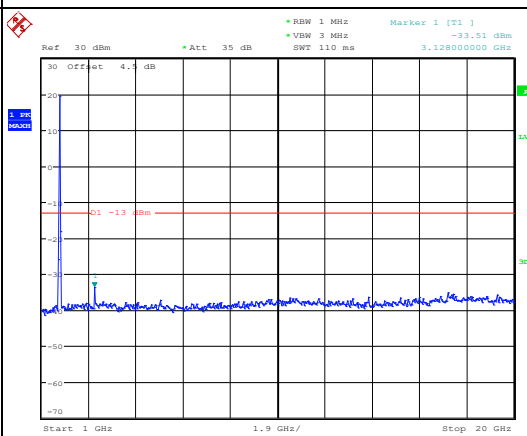


Date: 22.FEB.2023 19:16:23

Highest

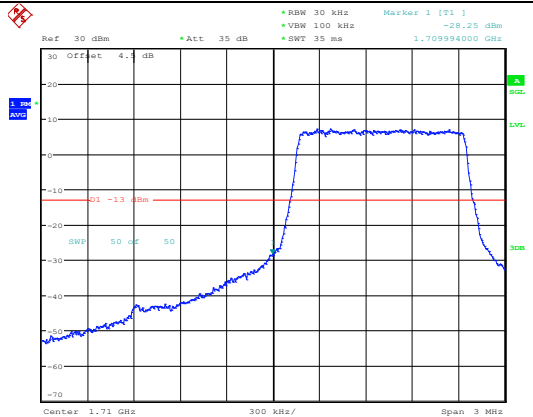
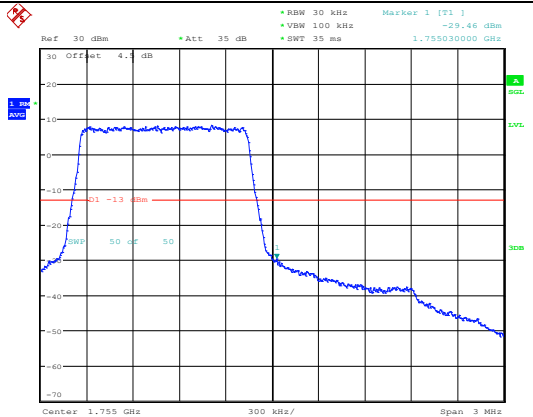
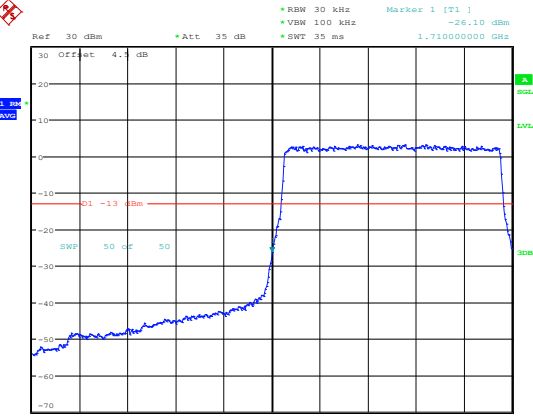
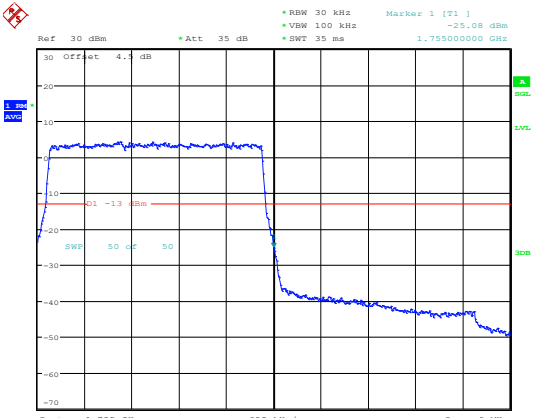
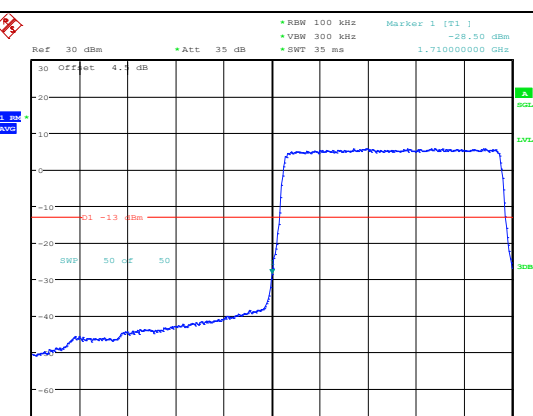
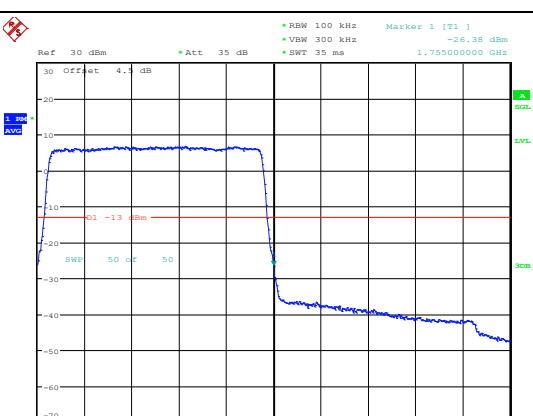


Date: 22.FEB.2023 19:16:43

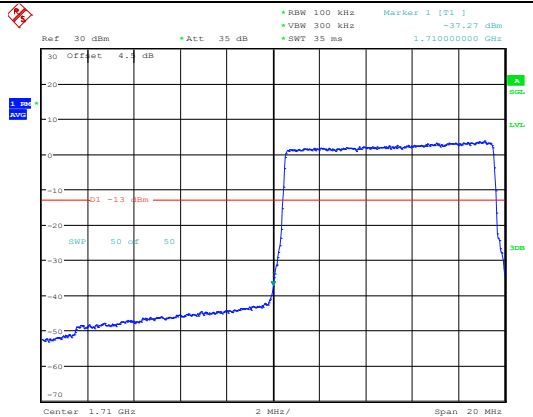
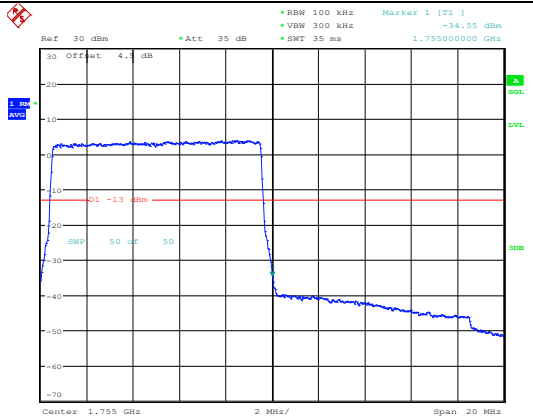
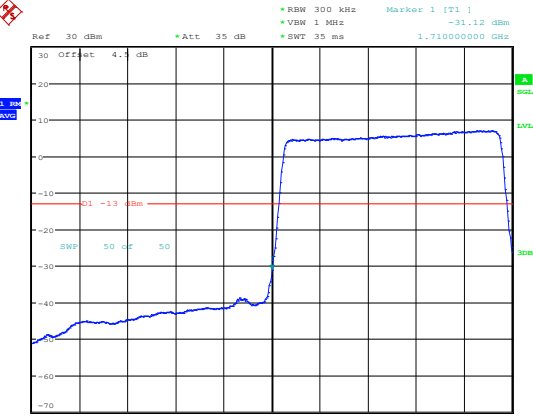
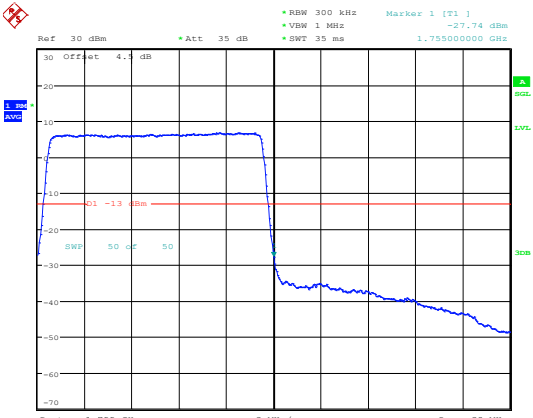
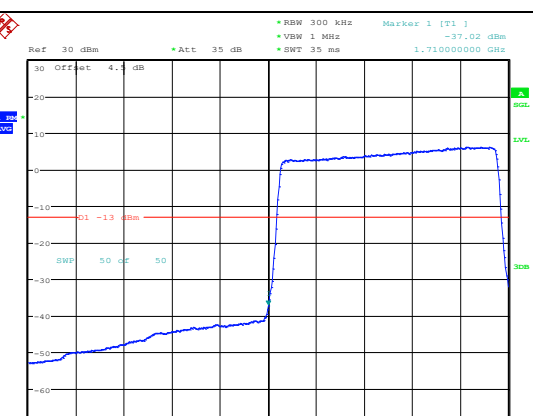
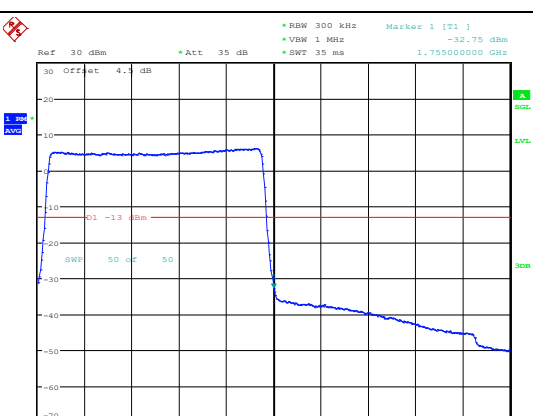


Date: 22.FEB.2023 19:16:56

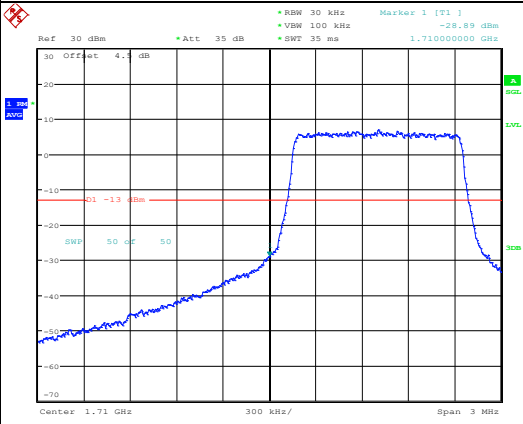
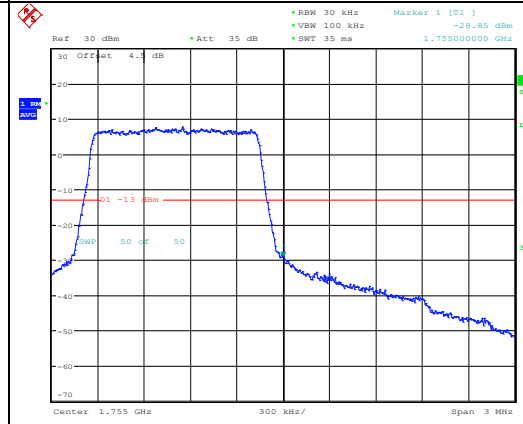
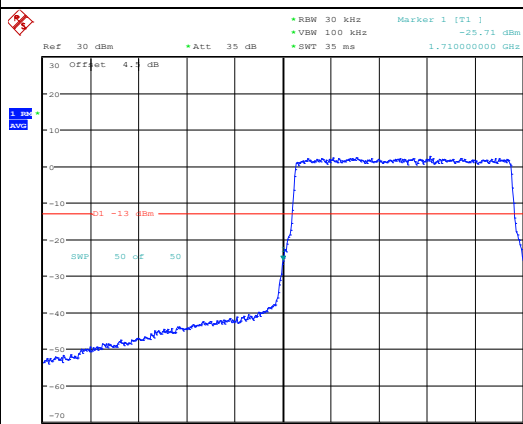
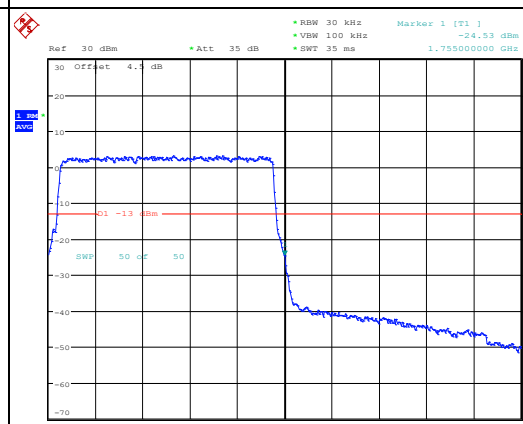
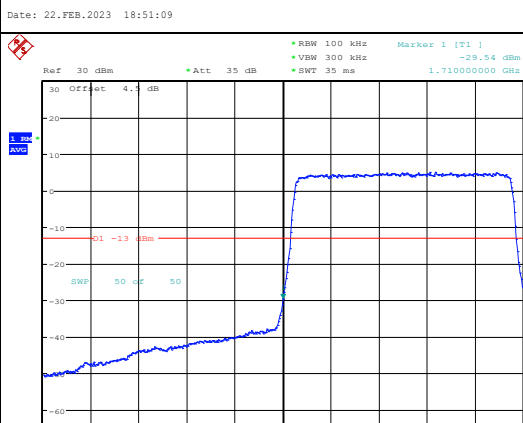
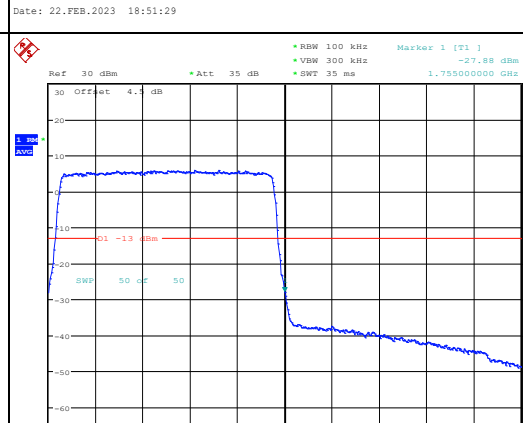
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 30 kHz VBW: 100 kHz SWT: 35 ms Marker 1 [T1]: -28.25 dBm 1.709994000 GHz Center: 1.71 GHz 300 kHz/ Span: 3 MHz Date: 22.FEB.2023 18:50:15	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 30 kHz VBW: 100 kHz SWT: 35 ms Marker 1 [T1]: -29.46 dBm 1.755030000 GHz Center: 1.755 GHz 300 kHz/ Span: 3 MHz Date: 22.FEB.2023 18:50:36
QPSK 3MHz	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 30 kHz VBW: 100 kHz SWT: 35 ms Marker 1 [T1]: -26.10 dBm 1.710000000 GHz Center: 1.71 GHz 600 kHz/ Span: 6 MHz Date: 22.FEB.2023 18:50:59	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 30 kHz VBW: 100 kHz SWT: 35 ms Marker 1 [T1]: -25.08 dBm 1.755000000 GHz Center: 1.755 GHz 600 kHz/ Span: 6 MHz Date: 22.FEB.2023 18:51:20
QPSK 5MHz	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 100 kHz VBW: 300 kHz SWT: 35 ms Marker 1 [T1]: -26.50 dBm 1.710000000 GHz Center: 1.71 GHz 1 MHz/ Span: 10 MHz Date: 22.FEB.2023 18:51:44	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 100 kHz VBW: 300 kHz SWT: 35 ms Marker 1 [T1]: -26.38 dBm 1.755000000 GHz Center: 1.755 GHz 1 MHz/ Span: 10 MHz Date: 22.FEB.2023 18:52:07

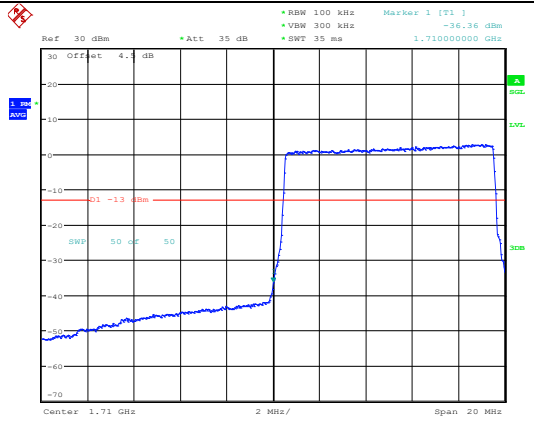
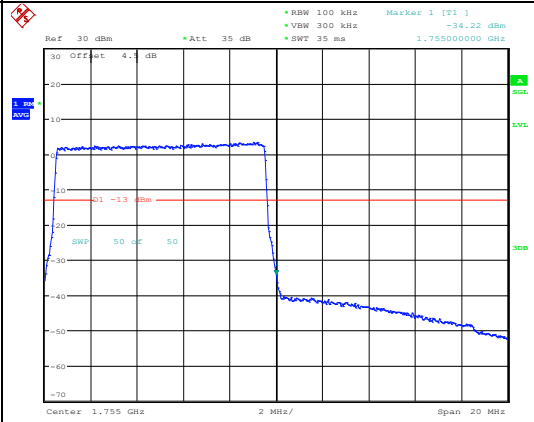
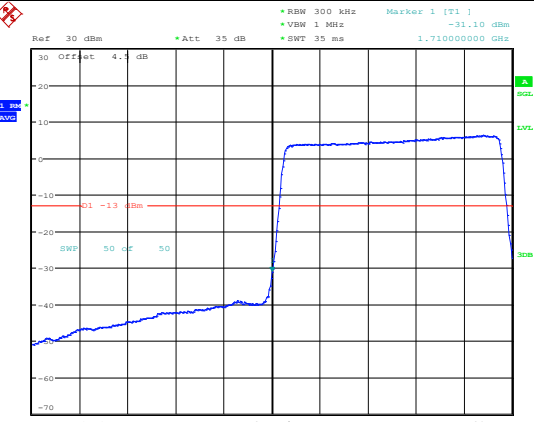
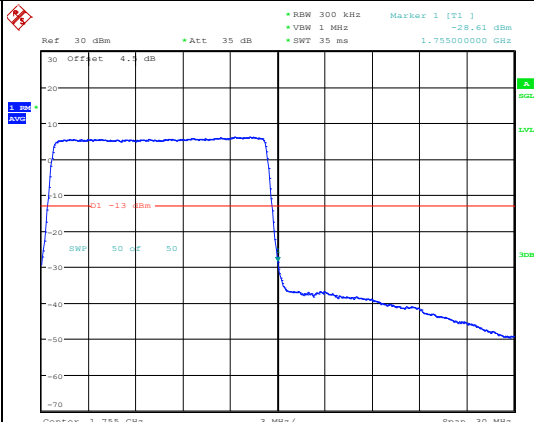
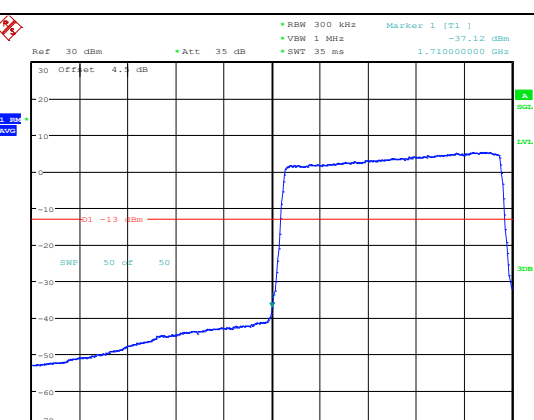
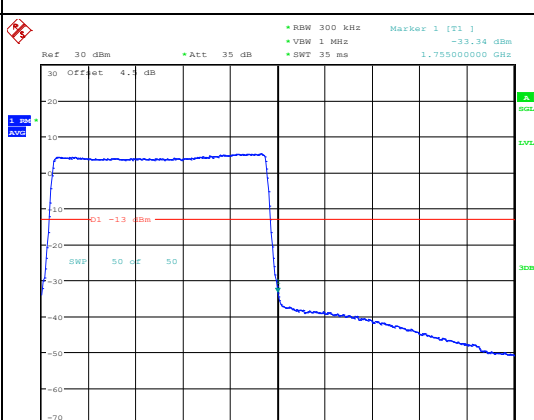
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz	 Date: 22.FEB.2023 18:52:34	 Date: 22.FEB.2023 18:52:58
QPSK 15MHz	 Date: 22.FEB.2023 18:53:23	 Date: 22.FEB.2023 18:53:45
QPSK 20MHz	 Date: 22.FEB.2023 18:54:09	 Date: 22.FEB.2023 18:54:30

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 30 kHz VBW: 100 kHz SWT: 35 ms Marker 1 [T1]: -28.89 dBm Center: 1.71 GHz Span: 3 MHz Date: 22.FEB.2023 18:50:25	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 30 kHz VBW: 100 kHz SWT: 35 ms Marker 1 [T1]: -28.85 dBm Center: 1.755 GHz Span: 3 MHz Date: 22.FEB.2023 18:50:45
16QAM 3MHz	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 30 kHz VBW: 100 kHz SWT: 35 ms Marker 1 [T1]: -29.71 dBm Center: 1.71 GHz Span: 6 MHz Date: 22.FEB.2023 18:51:09	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 30 kHz VBW: 100 kHz SWT: 35 ms Marker 1 [T1]: -24.53 dBm Center: 1.755 GHz Span: 6 MHz Date: 22.FEB.2023 18:51:29
16QAM 5MHz	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 100 kHz VBW: 300 kHz SWT: 35 ms Marker 1 [T1]: -29.54 dBm Center: 1.71 GHz Span: 10 MHz Date: 22.FEB.2023 18:51:56	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 100 kHz VBW: 300 kHz SWT: 35 ms Marker 1 [T1]: -27.88 dBm Center: 1.755 GHz Span: 10 MHz Date: 22.FEB.2023 18:52:18

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 100 kHz VBW: 300 kHz SWT: 35 ms Marker 1 [T1]: -35.36 dBm 1.710000000 GHz Center: 1.71 GHz 2 MHz/ Span: 20 MHz Date: 22.FEB.2023 18:52:46	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 100 kHz VBW: 300 kHz SWT: 35 ms Marker 1 [T1]: -34.22 dBm 1.755000000 GHz Center: 1.755 GHz 2 MHz/ Span: 20 MHz Date: 22.FEB.2023 18:53:10
16QAM 15MHz	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 300 kHz VBW: 1 MHz SWT: 35 ms Marker 1 [T1]: -31.10 dBm 1.710000000 GHz Center: 1.71 GHz 3 MHz/ Span: 30 MHz Date: 22.FEB.2023 18:53:34	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 300 kHz VBW: 1 MHz SWT: 35 ms Marker 1 [T1]: -28.61 dBm 1.755000000 GHz Center: 1.755 GHz 3 MHz/ Span: 30 MHz Date: 22.FEB.2023 18:53:55
16QAM 20MHz	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 300 kHz VBW: 1 MHz SWT: 35 ms Marker 1 [T1]: -37.12 dBm 1.710000000 GHz Center: 1.71 GHz 4 MHz/ Span: 40 MHz Date: 22.FEB.2023 18:54:19	 Ref: 30 dBm Offset: 4.1 dB Att: 35 dB RBW: 300 kHz VBW: 1 MHz SWT: 35 ms Marker 1 [T1]: -33.34 dBm 1.755000000 GHz Center: 1.755 GHz 4 MHz/ Span: 40 MHz Date: 22.FEB.2023 18:54:41

4.7 Antenna Port Test Data and Results for LTE Band 7

Serial Number:	1WTO-1	Test Date:	2023/2/22~2023/2/23
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.6-24.5	Relative Humidity: (%)	36-42	ATM Pressure: (kPa)	101.7-101.8
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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
Unknown	Coaxial tee connector	Unknown	2204004	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	2502.5	2535	2567.5
10MHz	2505	2535	2565
15MHz	2507.5	2535	2562.5
20MHz	2510	2535	2560

Test Data:**FCC §2.1046; § 27.50(h)(2)****RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	18.49	19.44	19.43	18.15	33
	RB1#13	18.59	19.41	19.38		
	RB1#24	18.65	19.39	19.3		
	RB15#0	17.99	19.03	18.95		
	RB15#10	17.97	18.99	18.85		
	RB25#0	18.06	18.9	18.94		
5MHz 16QAM	RB1#0	18.04	18.6	18.27	17.31	33
	RB1#13	18.04	18.6	18.14		
	RB1#24	18.07	18.51	18.22		
	RB15#0	16.94	18.18	18.03		
	RB15#10	17.08	18.33	18		
	RB25#0	17.22	17.99	18.14		
10MHz QPSK	RB1#0	18.21	18.49	19.1	17.81	33
	RB1#25	18.3	18.39	19		
	RB1#49	18.39	18.5	19.08		
	RB25#0	17.7	18.02	18.59		
	RB25#25	17.83	18.06	18.59		
	RB50#0	17.86	18.02	18.55		
10MHz 16QAM	RB1#0	17.84	17.44	18.84	17.55	33
	RB1#25	17.86	17.53	18.82		
	RB1#49	17.9	17.45	18.78		
	RB25#0	16.93	17.12	17.74		
	RB25#25	17.03	17.19	17.7		
	RB50#0	16.97	17.09	17.78		
15MHz QPSK	RB1#0	18.33	18.93	19.25	18.14	33
	RB1#38	18.43	19.07	19.36		
	RB1#74	18.53	19	19.43		
	RB36#0	17.91	18.7	19.01		
	RB36#39	17.89	18.6	18.96		
	RB75#0	17.88	18.46	19.01		
15MHz 16QAM	RB1#0	18.09	18.87	19.12	17.94	33
	RB1#38	18.14	18.97	19.18		
	RB1#74	18.24	19.11	19.23		
	RB36#0	17.05	17.72	18.22		
	RB36#39	17.17	17.75	18.26		
	RB75#0	17.1	17.69	18.12		

Peak-to-average Ratio(PAR)					
Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	5.26	4.33	4.78	13
	RB100#0	6.57	6.54	6.41	13
20MHz 16QAM	RB1#0	5.9	4.78	5.26	13
	RB100#0	7.21	7.24	7.12	13
				Result:	Pass

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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

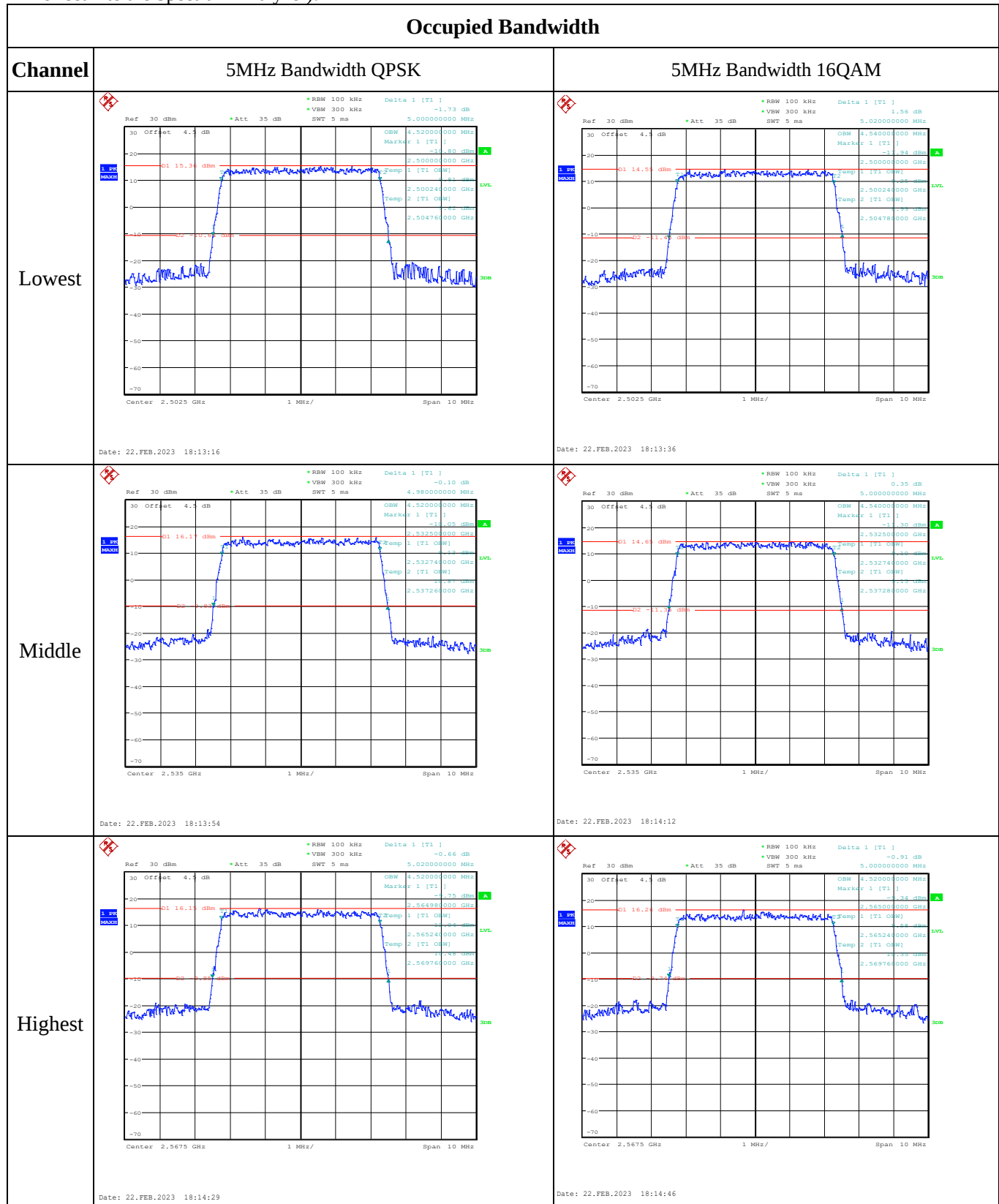
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.
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FCC §2.1055, §27.54: Frequency Stability

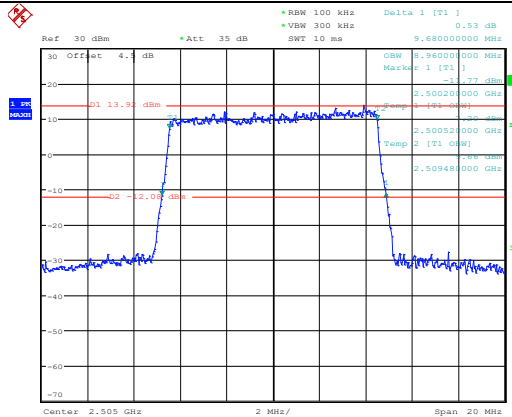
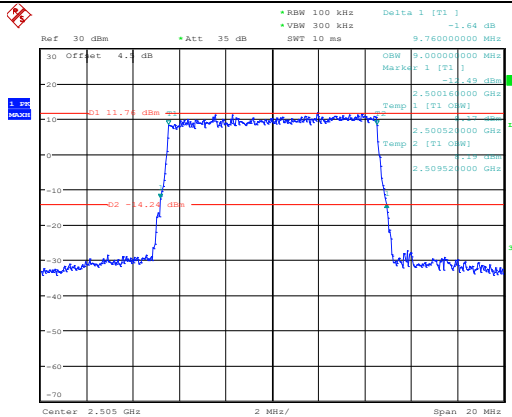
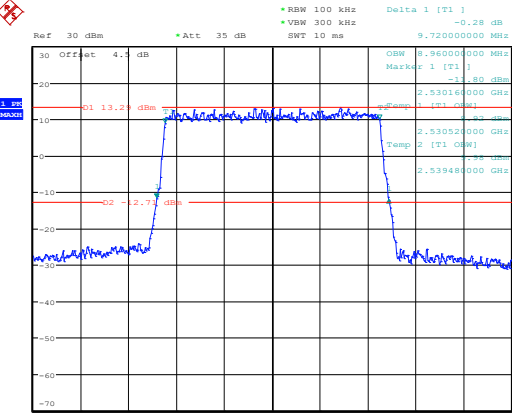
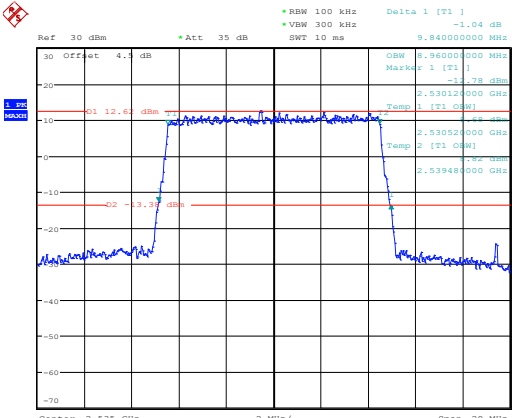
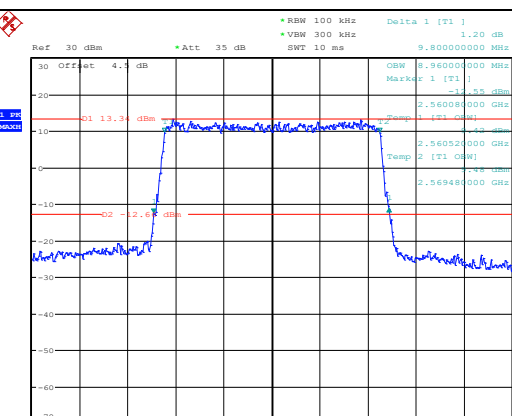
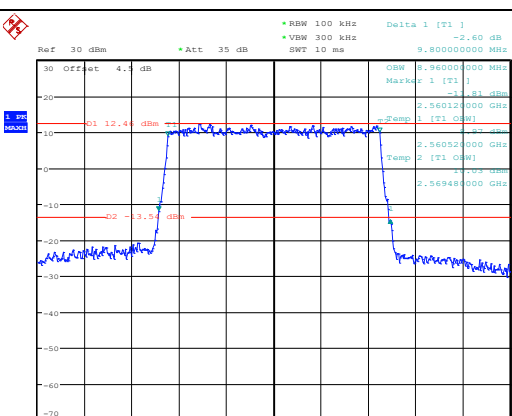
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	2501.098	2500.00	2569.049	2570
	-20	3.8	2501.095	2500.00	2569.042	2570
	-10	3.8	2501.106	2500.00	2569.057	2570
	0	3.8	2501.106	2500.00	2569.053	2570
	10	3.8	2501.091	2500.00	2569.041	2570
	20	3.8	2501.120	2500.00	2569.040	2570
	30	3.8	2501.098	2500.00	2569.043	2570
	40	3.8	2501.093	2500.00	2569.049	2570
Frequency Stability vs. Voltage	50	3.8	2501.101	2500.00	2569.067	2570
	20	3.6	2501.111	2500.00	2569.062	2570
	20	4.35	2501.120	2500.00	2569.046	2570
					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	2501.030	2500.00	2569.056	2570
	-20	3.8	2501.026	2500.00	2569.049	2570
	-10	3.8	2501.037	2500.00	2569.055	2570
	0	3.8	2501.022	2500.00	2569.047	2570
	10	3.8	2501.031	2500.00	2569.057	2570
	20	3.8	2501.040	2500.00	2569.040	2570
	30	3.8	2501.032	2500.00	2569.050	2570
	40	3.8	2501.040	2500.00	2569.049	2570
Frequency Stability vs. Voltage	50	3.8	2501.016	2500.00	2569.060	2570
	20	3.6	2501.026	2500.00	2569.041	2570
	20	4.35	2501.026	2500.00	2569.055	2570
					Result:	Pass

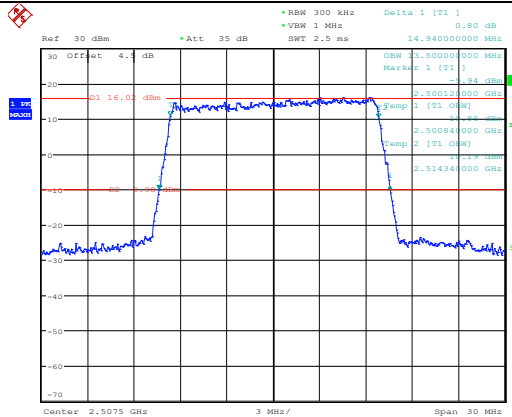
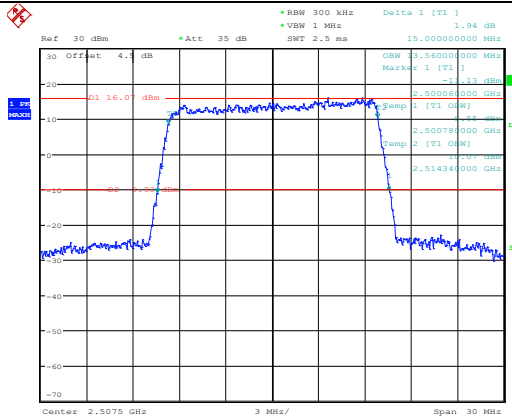
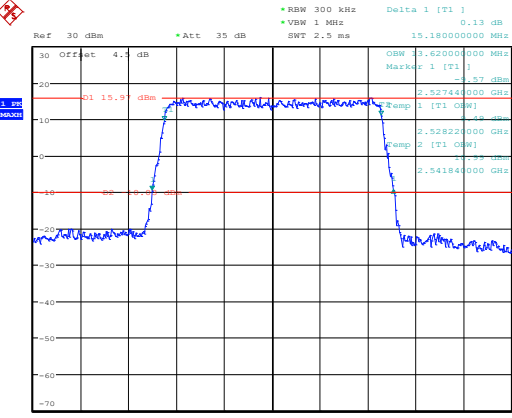
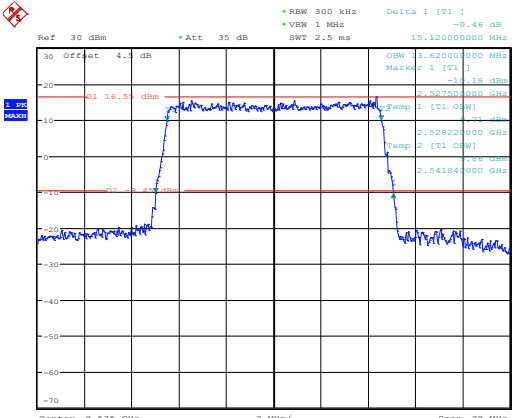
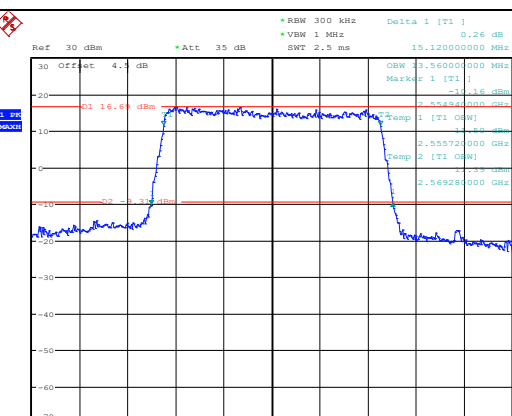
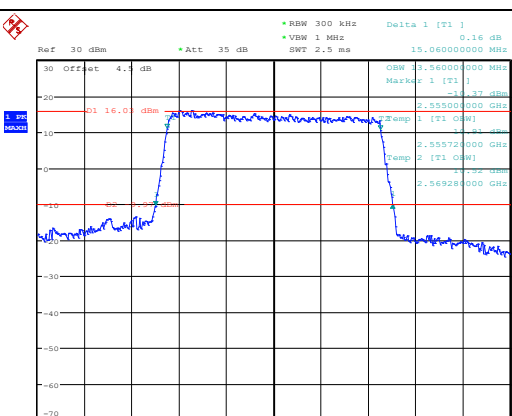
Test Plots(Note: The 4.5dB is the Insertion loss of the RF cable, Coaxial tee connector and DC Block, which was offset into the Spectrum Analyzer):



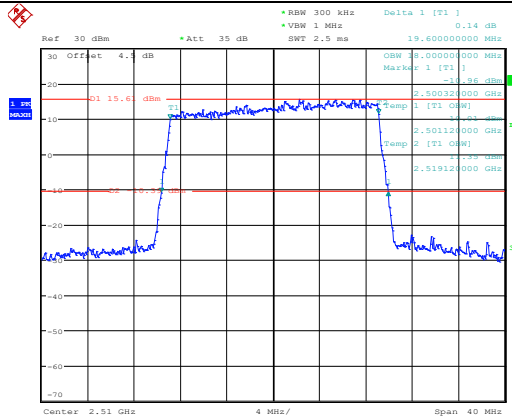
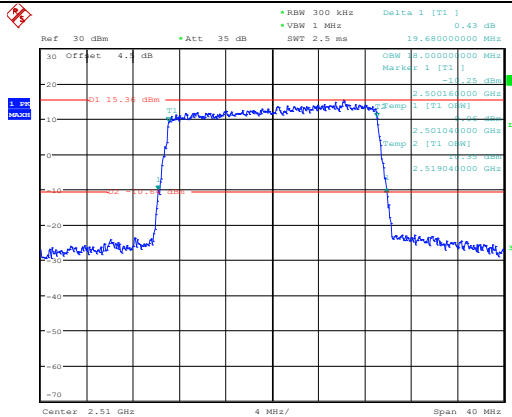
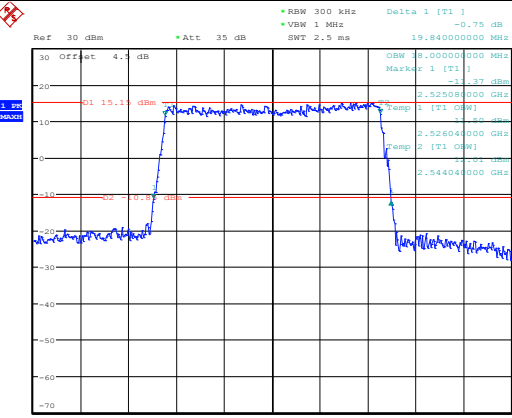
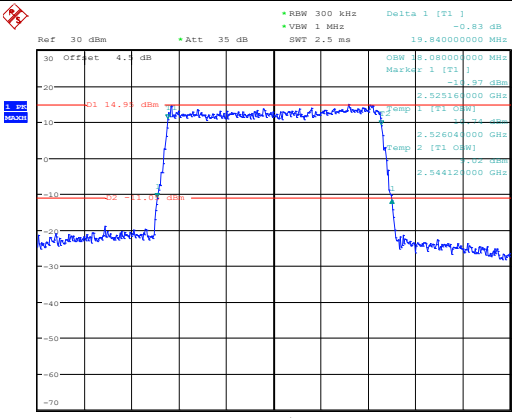
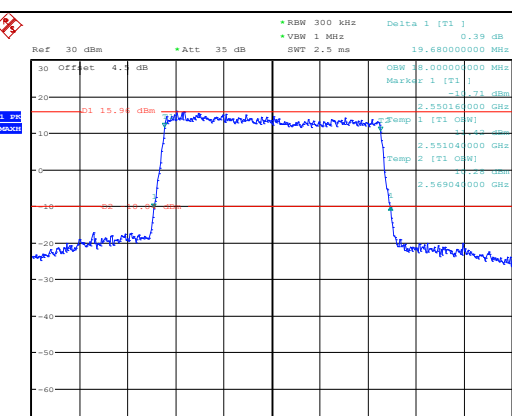
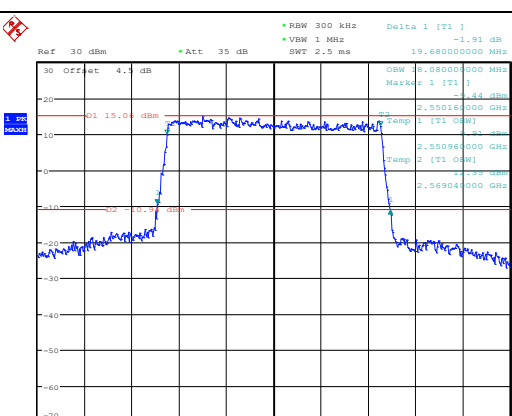
Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	 Ref: 30 dBm *Att: 35 dB *RBW: 100 kHz *VBW: 300 kHz Delta 1 [T1] 0.53 dB OSW: 9.60000000 MHz Marker 1 [T1] -13.92 dBm Temp 1 [T1:OSW] -13.92 dBm Temp 2 [T1:OSW] -12.08 dBm Center: 2.505 GHz 2 MHz/ Span: 20 MHz Date: 22.FEB.2023 18:15:08	 Ref: 30 dBm *Att: 35 dB *RBW: 100 kHz *VBW: 300 kHz Delta 1 [T1] -1.64 dB OSW: 9.76000000 MHz Marker 1 [T1] -13.76 dBm Temp 1 [T1:OSW] -13.76 dBm Temp 2 [T1:OSW] -11.64 dBm Center: 2.505 GHz 2 MHz/ Span: 20 MHz Date: 22.FEB.2023 18:15:25
Middle	 Ref: 30 dBm *Att: 35 dB *RBW: 100 kHz *VBW: 300 kHz Delta 1 [T1] -0.28 dB OSW: 9.72000000 MHz Marker 1 [T1] -13.2 dBm Temp 1 [T1:OSW] -13.2 dBm Temp 2 [T1:OSW] -12.77 dBm Center: 2.535 GHz 2 MHz/ Span: 20 MHz Date: 22.FEB.2023 18:15:40	 Ref: 30 dBm *Att: 35 dB *RBW: 100 kHz *VBW: 300 kHz Delta 1 [T1] -1.04 dB OSW: 9.84000000 MHz Marker 1 [T1] -12.6 dBm Temp 1 [T1:OSW] -12.6 dBm Temp 2 [T1:OSW] -11.04 dBm Center: 2.535 GHz 2 MHz/ Span: 20 MHz Date: 22.FEB.2023 18:15:58
Highest	 Ref: 30 dBm *Att: 35 dB *RBW: 100 kHz *VBW: 300 kHz Delta 1 [T1] 1.20 dB OSW: 9.80000000 MHz Marker 1 [T1] -13.34 dBm Temp 1 [T1:OSW] -13.34 dBm Temp 2 [T1:OSW] -12.6 dBm Center: 2.565 GHz 2 MHz/ Span: 20 MHz Date: 22.FEB.2023 18:16:20	 Ref: 30 dBm *Att: 35 dB *RBW: 100 kHz *VBW: 300 kHz Delta 1 [T1] -2.60 dB OSW: 9.86000000 MHz Marker 1 [T1] -12.4 dBm Temp 1 [T1:OSW] -12.4 dBm Temp 2 [T1:OSW] -2.60 dBm Center: 2.565 GHz 2 MHz/ Span: 20 MHz Date: 22.FEB.2023 18:16:39

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	 Ref 30 dBm Offset 4.1 dB Att 35 dB RBW 300 kHz VSW 1 MHz SWT 2.5 ms Delta 1 [T1] 0.80 dB OSW 13.50000000 MHz Marker 1 [T1] -16.02 dBm Temp 1 [T1] OSW 13.50000000 MHz Temp 2 [T1] OSW 13.50000000 MHz Center 2.5075 GHz Span 30 MHz Date: 22.FEB.2023 18:17:01	 Ref 30 dBm Offset 4.1 dB Att 35 dB RBW 300 kHz VSW 1 MHz SWT 2.5 ms Delta 1 [T1] 1.94 dB OSW 13.50000000 MHz Marker 1 [T1] -16.07 dBm Temp 1 [T1] OSW 13.50000000 MHz Temp 2 [T1] OSW 13.50000000 MHz Center 2.5075 GHz Span 30 MHz Date: 22.FEB.2023 18:17:20
Middle	 Ref 30 dBm Offset 4.1 dB Att 35 dB RBW 300 kHz VSW 1 MHz SWT 2.5 ms Delta 1 [T1] 0.13 dB OSW 13.50000000 MHz Marker 1 [T1] -15.97 dBm Temp 1 [T1] OSW 13.50000000 MHz Temp 2 [T1] OSW 13.50000000 MHz Center 2.535 GHz Span 30 MHz Date: 22.FEB.2023 18:17:36	 Ref 30 dBm Offset 4.1 dB Att 35 dB RBW 300 kHz VSW 1 MHz SWT 2.5 ms Delta 1 [T1] -0.46 dB OSW 13.50000000 MHz Marker 1 [T1] -15.51 dBm Temp 1 [T1] OSW 13.50000000 MHz Temp 2 [T1] OSW 13.50000000 MHz Center 2.535 GHz Span 30 MHz Date: 22.FEB.2023 18:17:52
Highest	 Ref 30 dBm Offset 4.1 dB Att 35 dB RBW 300 kHz VSW 1 MHz SWT 2.5 ms Delta 1 [T1] 0.26 dB OSW 13.50000000 MHz Marker 1 [T1] -16.61 dBm Temp 1 [T1] OSW 13.50000000 MHz Temp 2 [T1] OSW 13.50000000 MHz Center 2.5625 GHz Span 30 MHz Date: 22.FEB.2023 18:18:15	 Ref 30 dBm Offset 4.1 dB Att 35 dB RBW 300 kHz VSW 1 MHz SWT 2.5 ms Delta 1 [T1] 0.16 dB OSW 13.50000000 MHz Marker 1 [T1] -16.01 dBm Temp 1 [T1] OSW 13.50000000 MHz Temp 2 [T1] OSW 13.50000000 MHz Center 2.5625 GHz Span 30 MHz Date: 22.FEB.2023 18:18:37

Occupied Bandwidth

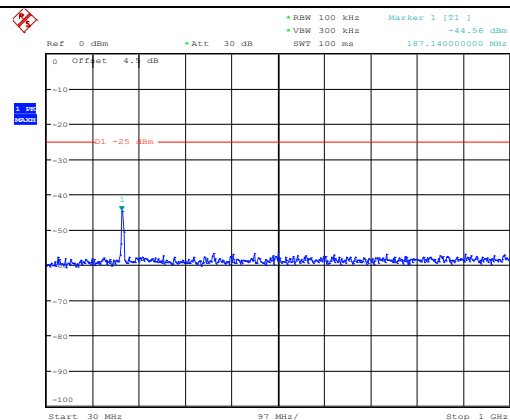
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	 Ref 30 dBm Offset 4.1 dB Att 35 dB RBW 300 kHz VSW 1 MHz SWT 2.5 ms Delta 1 [T1] 0.14 dB OSW 18.00000000 MHz Marker 1 [T1] -15.62 dBm Temp 1 [T1 OSW] 2.502000000 GHz Temp 2 [T1 OSW] 2.501120000 GHz Temp 3 [T1 OSW] 2.519120000 GHz Center 2.51 GHz 4 MHz/ Span 40 MHz Date: 22.FEB.2023 18:18:57	 Ref 30 dBm Offset 4.1 dB Att 35 dB RBW 300 kHz VSW 1 MHz SWT 2.5 ms Delta 1 [T1] 0.43 dB OSW 18.00000000 MHz Marker 1 [T1] -15.34 dBm Temp 1 [T1 OSW] 2.502000000 GHz Temp 2 [T1 OSW] 2.501040000 GHz Temp 3 [T1 OSW] 2.519040000 GHz Center 2.51 GHz 4 MHz/ Span 40 MHz Date: 22.FEB.2023 18:19:18
Middle	 Ref 30 dBm Offset 4.1 dB Att 35 dB RBW 300 kHz VSW 1 MHz SWT 2.5 ms Delta 1 [T1] -0.75 dB OSW 18.00000000 MHz Marker 1 [T1] -15.11 dBm Temp 1 [T1 OSW] 2.520000000 GHz Temp 2 [T1 OSW] 2.526040000 GHz Temp 3 [T1 OSW] 2.544040000 GHz Center 2.535 GHz 4 MHz/ Span 40 MHz Date: 22.FEB.2023 18:19:34	 Ref 30 dBm Offset 4.1 dB Att 35 dB RBW 300 kHz VSW 1 MHz SWT 2.5 ms Delta 1 [T1] -0.83 dB OSW 18.00000000 MHz Marker 1 [T1] -14.91 dBm Temp 1 [T1 OSW] 2.520000000 GHz Temp 2 [T1 OSW] 2.526040000 GHz Temp 3 [T1 OSW] 2.544120000 GHz Center 2.535 GHz 4 MHz/ Span 40 MHz Date: 22.FEB.2023 18:19:49
Highest	 Ref 30 dBm Offset 4.1 dB Att 35 dB RBW 300 kHz VSW 1 MHz SWT 2.5 ms Delta 1 [T1] 0.39 dB OSW 18.00000000 MHz Marker 1 [T1] -15.94 dBm Temp 1 [T1 OSW] 2.550000000 GHz Temp 2 [T1 OSW] 2.551040000 GHz Temp 3 [T1 OSW] 2.569040000 GHz Center 2.56 GHz 4 MHz/ Span 40 MHz Date: 22.FEB.2023 18:20:05	 Ref 30 dBm Offset 4.1 dB Att 35 dB RBW 300 kHz VSW 1 MHz SWT 2.5 ms Delta 1 [T1] -1.91 dB OSW 18.00000000 MHz Marker 1 [T1] -15.04 dBm Temp 1 [T1 OSW] 2.550000000 GHz Temp 2 [T1 OSW] 2.550940000 GHz Temp 3 [T1 OSW] 2.569040000 GHz Center 2.56 GHz 4 MHz/ Span 40 MHz Date: 22.FEB.2023 18:20:20

Spurious Emissions at Antenna Terminal

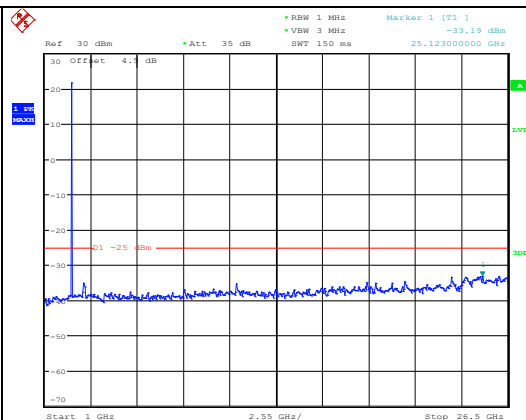
Channel

5MHz Bandwidth QPSK

Lowest

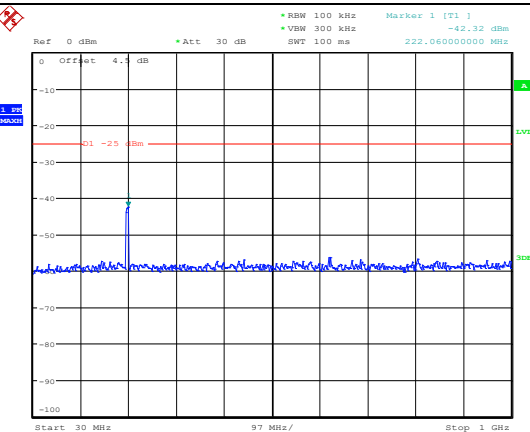


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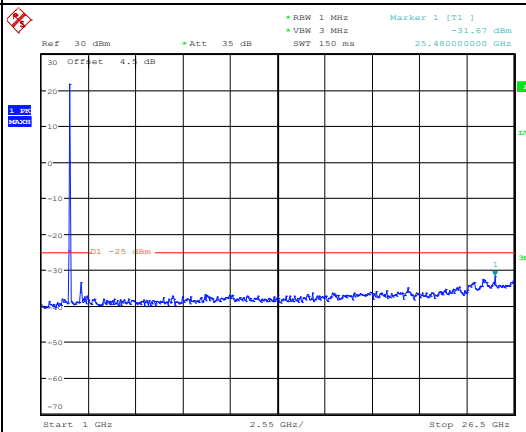


Date: 22.FEB.2023 19:17:33

Middle

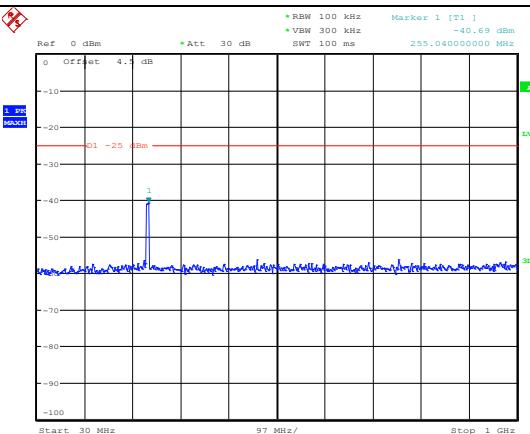


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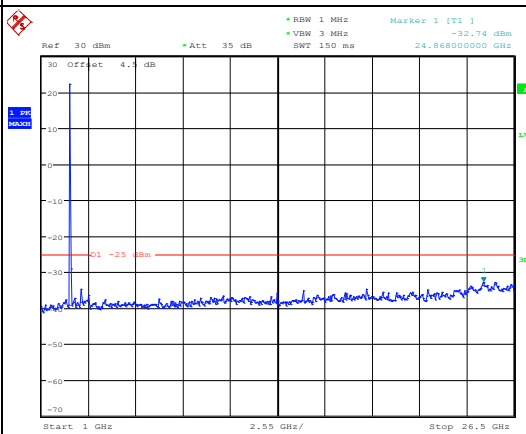


Date: 22.FEB.2023 19:18:03

Highest



Date: 22.FEB.2023 19:18:21



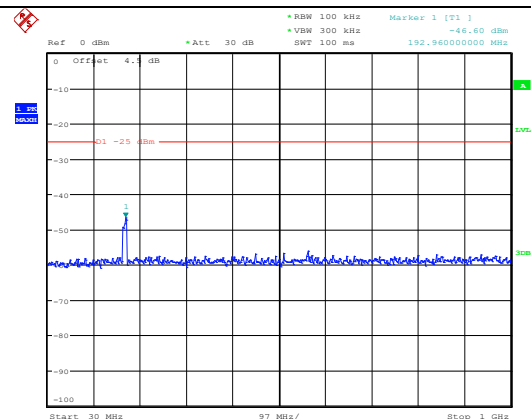
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Spurious Emissions at Antenna Terminal

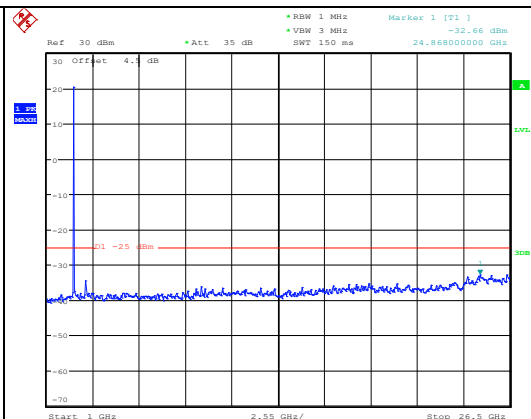
Channel

10MHz Bandwidth QPSK

Lowest

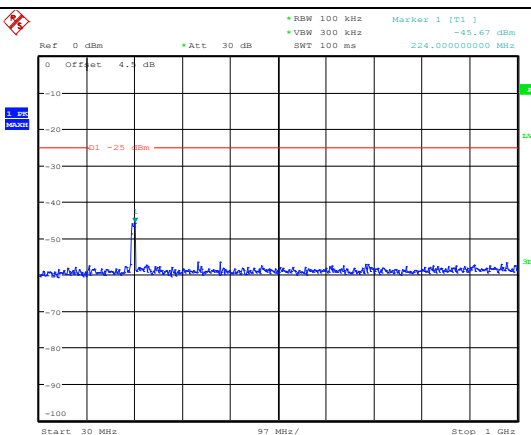


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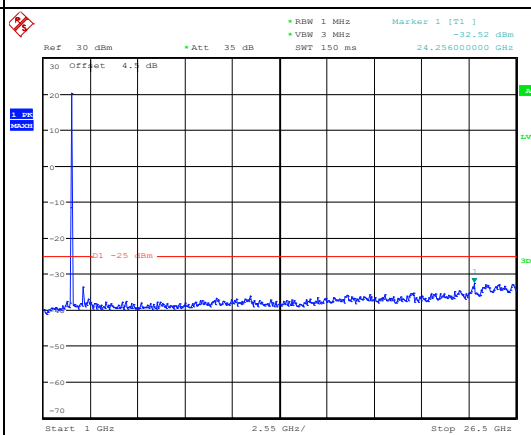


Date: 22.FEB.2023 19:19:06

Middle

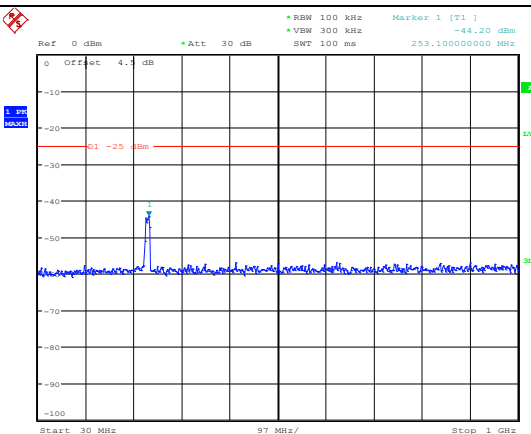


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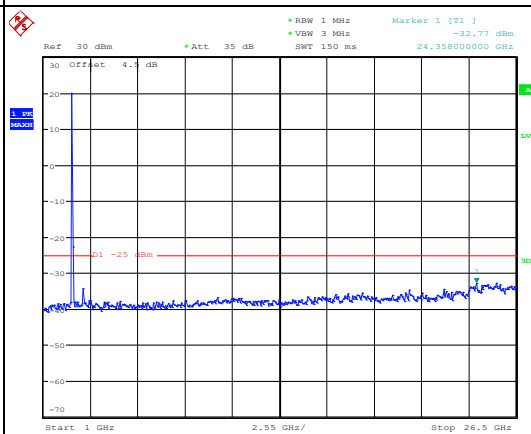


Date: 22.FEB.2023 19:19:34

Highest



Date: 22.FEB.2023 19:19:50



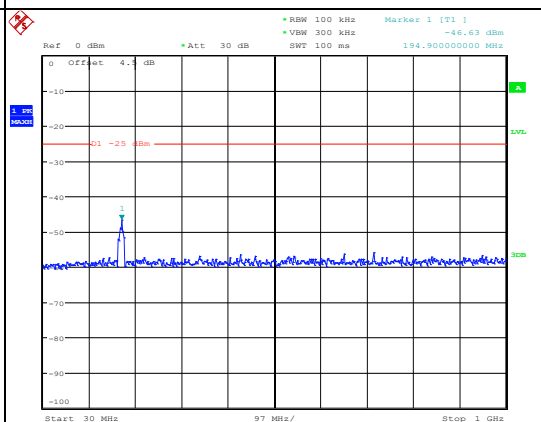
Date: 22.FEB.2023 19:20:03

Spurious Emissions at Antenna Terminal

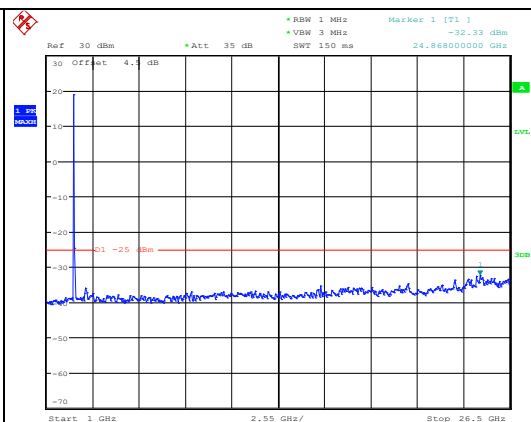
Channel

15MHz Bandwidth QPSK

Lowest

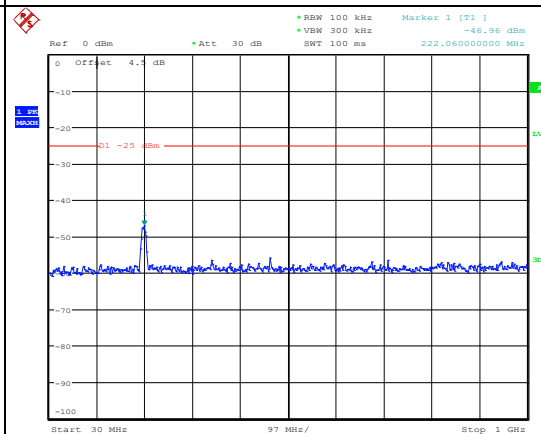


Date: 22.FEB.2023 19:20:26

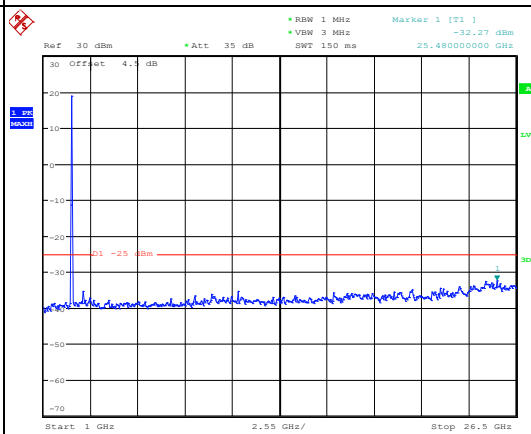


Date: 22.FEB.2023 19:20:39

Middle

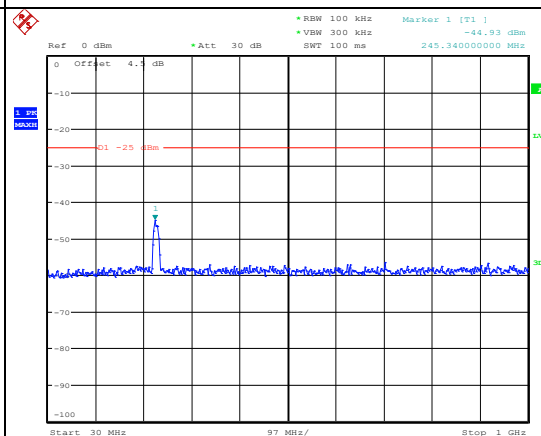


Date: 22.FEB.2023 19:20:55

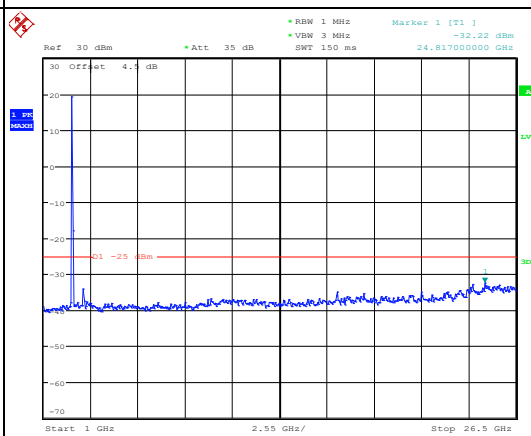


Date: 22.FEB.2023 19:21:08

Highest



Date: 22.FEB.2023 19:21:24



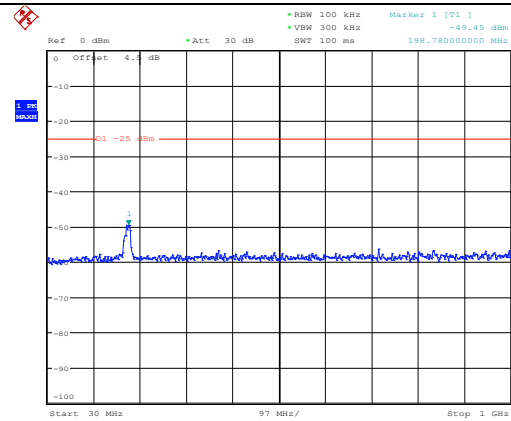
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Spurious Emissions at Antenna Terminal

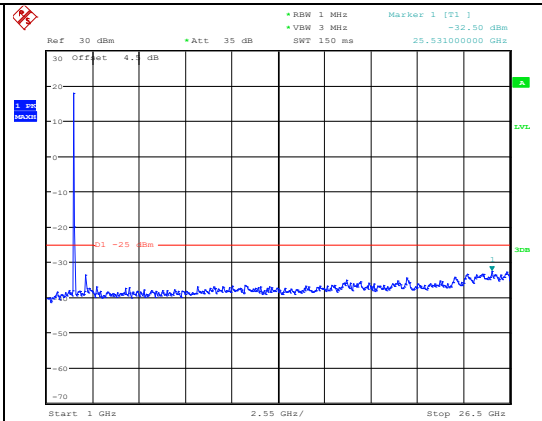
Channel

20MHz Bandwidth QPSK

Lowest

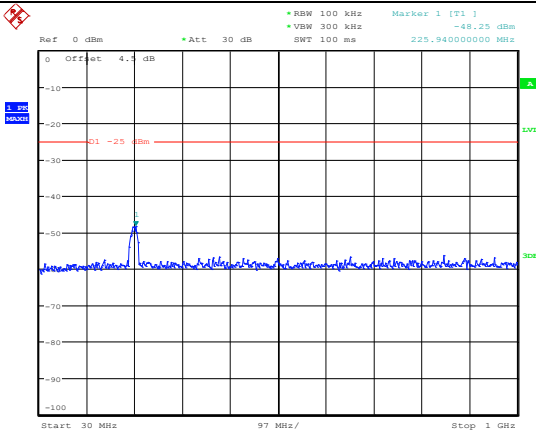


Date: 22.FEB.2023 19:21:59

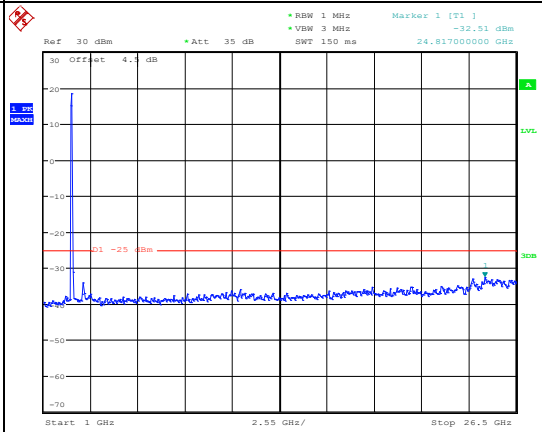


Date: 22.FEB.2023 19:22:13

Middle

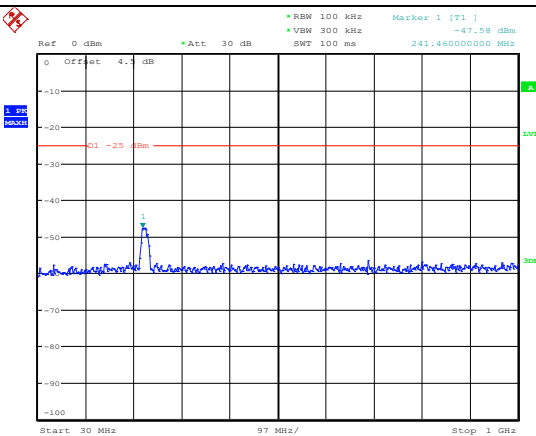


Date: 22.FEB.2023 19:22:29

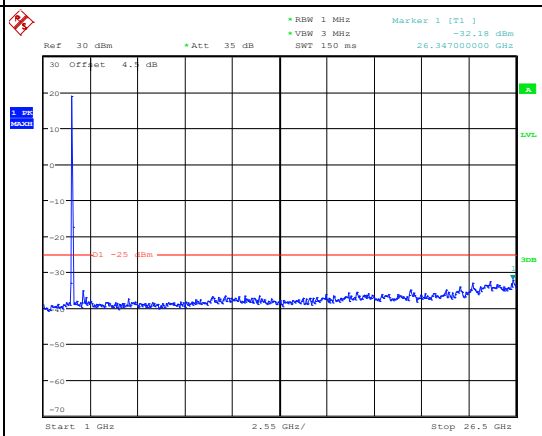


Date: 22.FEB.2023 19:22:42

Highest

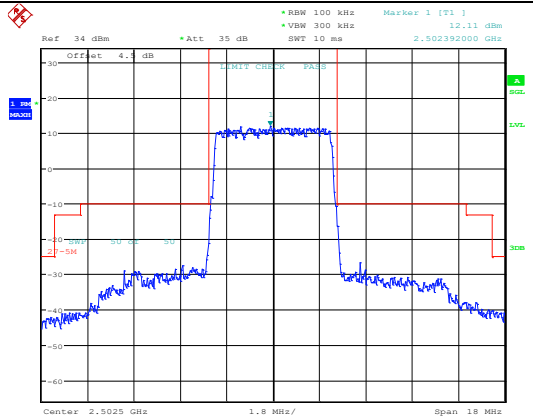
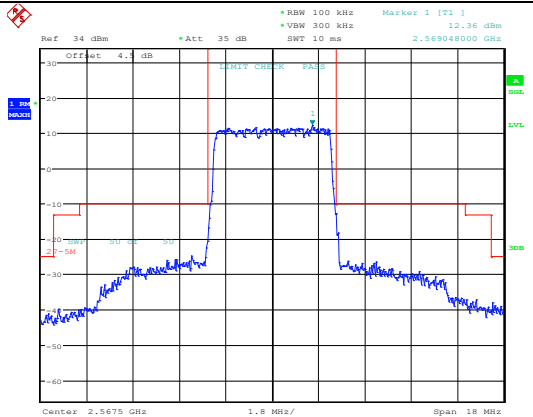
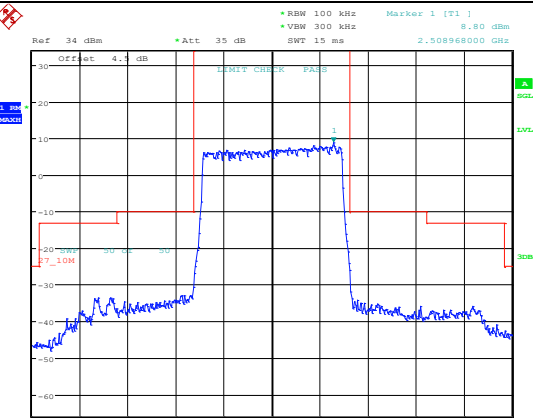
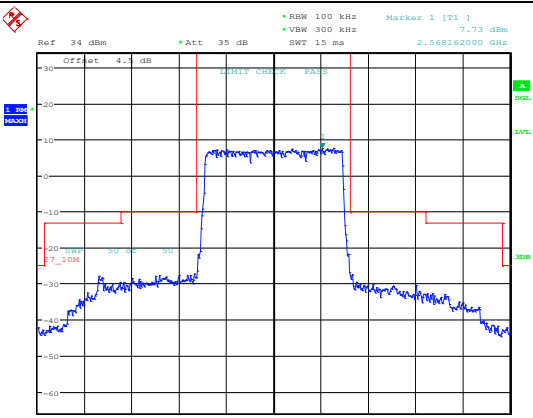
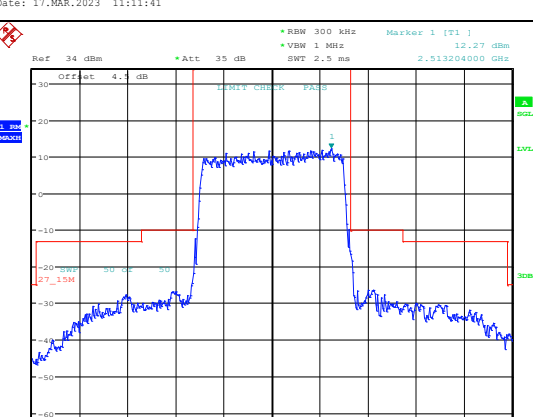
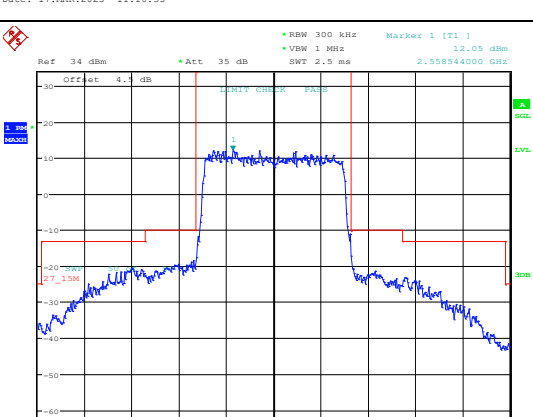


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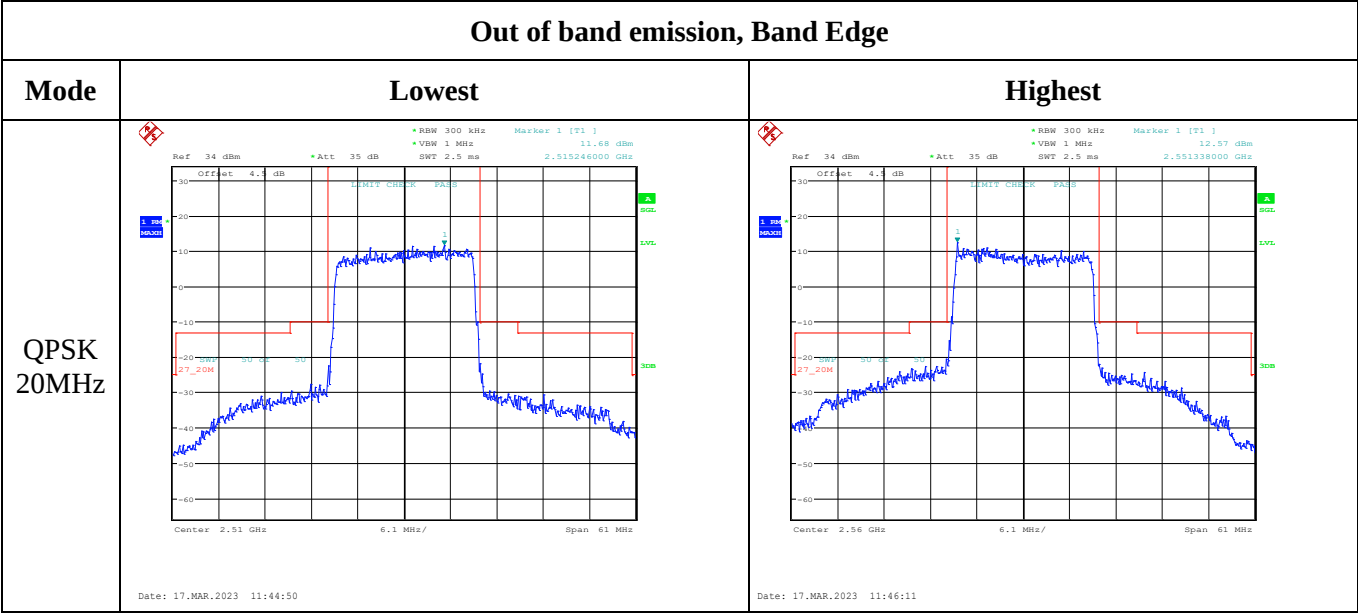


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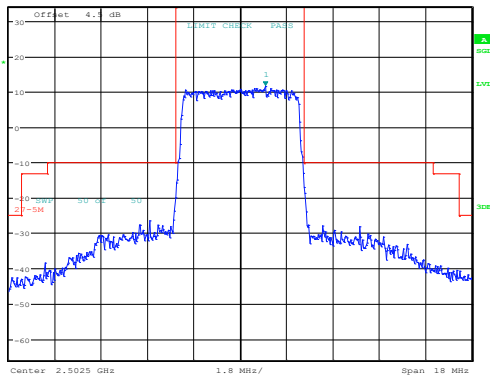
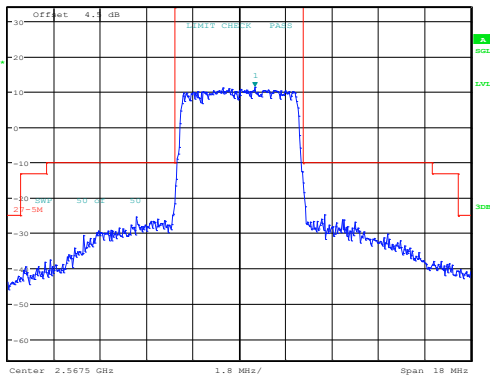
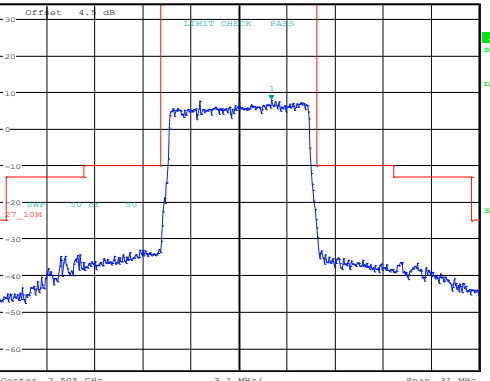
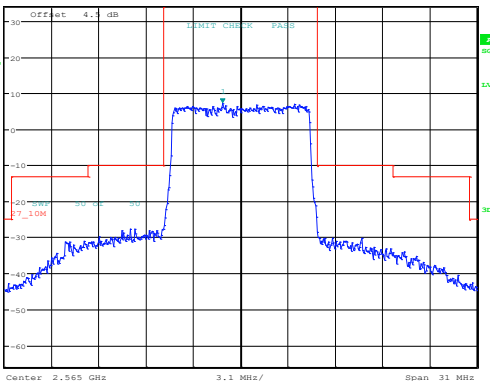
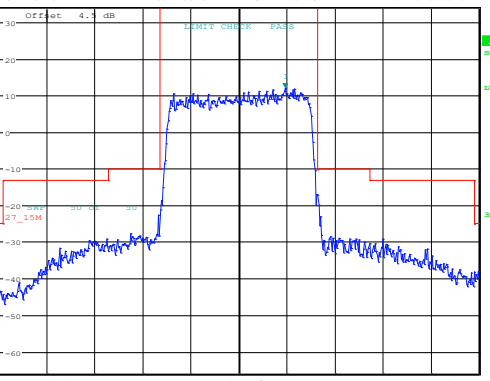
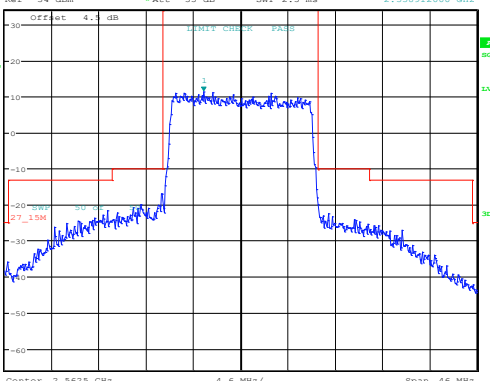
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 5MHz	 Ref: 34 dBm Offset: 4.1 dB Att: 35 dB RBW: 100 kHz VBW: 300 kHz SWT: 10 ms Marker 1 [T1]: 12.11 dBm Center: 2.5023 GHz Span: 18 MHz Date: 17.MAR.2023 10:54:36	 Ref: 34 dBm Offset: 4.1 dB Att: 35 dB RBW: 100 kHz VBW: 300 kHz SWT: 10 ms Marker 1 [T1]: 12.36 dBm Center: 2.5675 GHz Span: 18 MHz Date: 17.MAR.2023 11:05:07
QPSK 10MHz	 Ref: 34 dBm Offset: 4.1 dB Att: 35 dB RBW: 100 kHz VBW: 300 kHz SWT: 15 ms Marker 1 [T1]: 8.80 dBm Center: 2.505 GHz Span: 31 MHz Date: 17.MAR.2023 11:11:41	 Ref: 34 dBm Offset: 4.1 dB Att: 35 dB RBW: 100 kHz VBW: 300 kHz SWT: 15 ms Marker 1 [T1]: 7.73 dBm Center: 2.565 GHz Span: 31 MHz Date: 17.MAR.2023 11:16:33
QPSK 15MHz	 Ref: 34 dBm Offset: 4.1 dB Att: 35 dB RBW: 300 kHz VBW: 1 MHz SWT: 2.5 ms Marker 1 [T1]: 12.27 dBm Center: 2.5075 GHz Span: 46 MHz Date: 17.MAR.2023 11:53:58	 Ref: 34 dBm Offset: 4.1 dB Att: 35 dB RBW: 300 kHz VBW: 1 MHz SWT: 2.5 ms Marker 1 [T1]: 12.05 dBm Center: 2.5625 GHz Span: 46 MHz Date: 17.MAR.2023 11:50:24

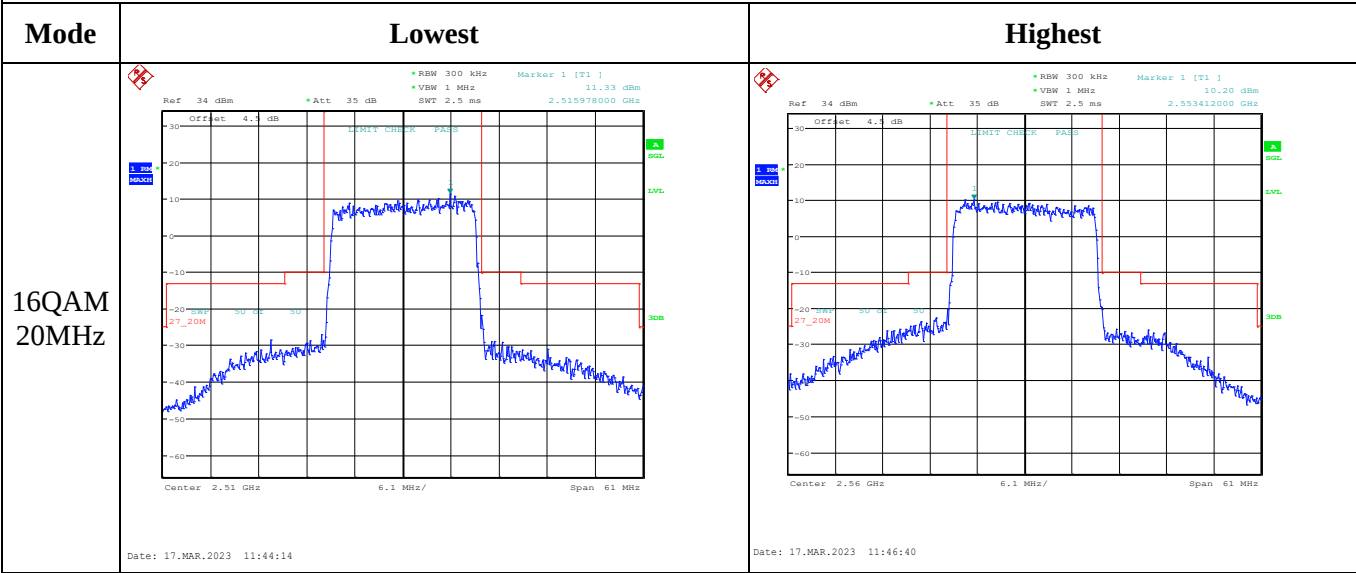
Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 5MHz	 Ref: 34 dBm, Att: 35 dB, RBW: 100 kHz, VSW: 300 kHz, SWT: 10 ms, Marker 1 [T1]: 11.83 dBm, 2.503472000 GHz Offset: 4.1 dB, Limit Check: PASS Center: 2.5025 GHz, 1.8 MHz/, Span: 18 MHz Date: 17.MAR.2023 10:56:43	 Ref: 34 dBm, Att: 35 dB, RBW: 100 kHz, VSW: 300 kHz, SWT: 10 ms, Marker 1 [T1]: 11.43 dBm, 2.568120000 GHz Offset: 4.1 dB, Limit Check: PASS Center: 2.5675 GHz, 1.8 MHz/, Span: 18 MHz Date: 17.MAR.2023 11:05:42
16QAM 10MHz	 Ref: 34 dBm, Att: 35 dB, RBW: 100 kHz, VSW: 300 kHz, SWT: 15 ms, Marker 1 [T1]: 7.55 dBm, 2.507108000 GHz Offset: 4.1 dB, Limit Check: PASS Center: 2.505 GHz, 3.1 MHz/, Span: 31 MHz Date: 17.MAR.2023 11:12:20	 Ref: 34 dBm, Att: 35 dB, RBW: 100 kHz, VSW: 300 kHz, SWT: 15 ms, Marker 1 [T1]: 7.23 dBm, 2.568920000 GHz Offset: 4.1 dB, Limit Check: PASS Center: 2.565 GHz, 3.1 MHz/, Span: 31 MHz Date: 17.MAR.2023 11:17:10
16QAM 15MHz	 Ref: 34 dBm, Att: 35 dB, RBW: 300 kHz, VSW: 1 MHz, SWT: 2.5 ms, Marker 1 [T1]: 11.95 dBm, 2.511916000 GHz Offset: 4.1 dB, Limit Check: PASS Center: 2.5075 GHz, 4.6 MHz/, Span: 46 MHz Date: 17.MAR.2023 11:53:23	 Ref: 34 dBm, Att: 35 dB, RBW: 300 kHz, VSW: 1 MHz, SWT: 2.5 ms, Marker 1 [T1]: 11.49 dBm, 2.568920000 GHz Offset: 4.1 dB, Limit Check: PASS Center: 2.5625 GHz, 4.6 MHz/, Span: 46 MHz Date: 17.MAR.2023 11:49:52

Out of band emission, Band Edge



4.8 Radiated Spurious Emissions

Serial Number:	1WTO-1	Test Date:	2023/2/22~2023/2/24
Test Site:	966-1, 966-2	Test Mode:	Transmitting
Tester:	Carl Xue, Mack Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.4~24.6	Relative Humidity: (%)	43~46	ATM Pressure: (kPa)	101.7~101.9
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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	2022/07/15	2023/07/14
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2022/07/17	2023/07/16
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2022/07/17	2023/07/16
Sonoma	Amplifier	310N	186165	2022/07/17	2023/07/16
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/07/17	2023/07/16
Agilent	Signal Generator	E8247C	MY43321352	2022/04/01	2023/03/31
ETS-Lindgren	Horn Antenna	3115	9912-5985	2022/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2022/07/15	2023/07/14
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2022/08/07	2023/08/06
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2022/08/07	2023/08/06
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2021/11/09	2023/11/08
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/07/17	2023/07/16
Agilent	Signal Generator	E8247C	MY43321352	2022/04/01	2023/03/31
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/02/05	2024/02/04
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021/02/05	2024/02/04
AH	Preamplifier	PAM-1840VH	190	2022/11/09	2023/11/08
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2022/08/07	2023/08/06

*** 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								
684.88	H	21.10	-52.30	0.00	0.53	-52.83	-13.00	39.83
694.59	V	21.58	-48.44	0.00	0.55	-48.99	-13.00	35.99
1648.400	H	40.78	-63.55	8.68	0.80	-55.67	-13.00	42.67
1648.400	V	41.87	-62.54	8.68	0.80	-54.66	-13.00	41.66
2472.600	H	39.63	-61.15	9.38	1.00	-52.77	-13.00	39.77
2472.600	V	43.06	-57.67	9.38	1.00	-49.29	-13.00	36.29
3296.800	H	46.48	-50.20	10.32	1.15	-41.03	-13.00	28.03
3296.800	V	48.17	-48.27	10.32	1.15	-39.10	-13.00	26.10
GSM 850 Frequency:836.6MHz								
534.07	H	21.52	-53.64	0.00	0.46	-54.10	-13.00	41.10
682.49	V	21.02	-49.22	0.00	0.52	-49.74	-13.00	36.74
1673.200	H	44.01	-60.30	8.71	0.85	-52.44	-13.00	39.44
1673.200	V	40.22	-64.19	8.71	0.85	-56.33	-13.00	43.33
2509.800	H	37.78	-62.83	9.42	1.01	-54.42	-13.00	41.42
2509.800	V	50.89	-49.73	9.42	1.01	-41.32	-13.00	28.32
3346.400	H	47.25	-49.92	10.34	1.16	-40.74	-13.00	27.74
3346.400	V	45.21	-51.82	10.34	1.16	-42.64	-13.00	29.64
GSM 850 Frequency:848.8MHz								
587.05	H	21.13	-52.99	0.00	0.47	-53.46	-13.00	40.46
706.82	V	21.25	-48.52	0.00	0.54	-49.06	-13.00	36.06
1697.600	H	47.35	-56.94	8.74	0.90	-49.10	-13.00	36.10
1697.600	V	48.06	-56.36	8.74	0.90	-48.52	-13.00	35.52
2546.400	H	40.03	-60.30	9.47	1.01	-51.84	-13.00	38.84
2546.400	V	60.51	-39.77	9.47	1.01	-31.31	-13.00	18.31
3395.200	H	43.63	-54.06	10.36	1.19	-44.89	-13.00	31.89
3395.200	V	42.96	-54.70	10.36	1.19	-45.53	-13.00	32.53

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								
699.42	H	21.34	-51.98	0.00	0.55	-52.53	-13.00	39.53
714.27	V	21.68	-47.93	0.00	0.50	-48.43	-13.00	35.43
1652.800	H	36.47	-67.86	8.68	0.81	-59.99	-13.00	46.99
1652.800	V	35.63	-68.78	8.68	0.81	-60.91	-13.00	47.91
2479.200	H	40.29	-60.47	9.39	1.01	-52.09	-13.00	39.09
2479.200	V	34.36	-66.37	9.39	1.01	-57.99	-13.00	44.99
3305.600	H	50.93	-45.80	10.32	1.15	-36.63	-13.00	23.63
3305.600	V	51.42	-45.08	10.32	1.15	-35.91	-13.00	22.91
WCDMA Band 5 Frequency:836.6MHz								
728.44	H	21.24	-51.51	0.00	0.52	-52.03	-13.00	39.03
689.70	V	21.18	-48.93	0.00	0.54	-49.47	-13.00	36.47
1673.200	H	35.13	-69.18	8.71	0.85	-61.32	-13.00	48.32
1673.200	V	34.44	-69.97	8.71	0.85	-62.11	-13.00	49.11
2509.800	H	35.28	-65.33	9.42	1.01	-56.92	-13.00	43.92
2509.800	V	35.16	-65.46	9.42	1.01	-57.05	-13.00	44.05
3346.400	H	53.61	-43.56	10.34	1.16	-34.38	-13.00	21.38
3346.400	V	52.10	-44.93	10.34	1.16	-35.75	-13.00	22.75
WCDMA Band 5 Frequency:846.6MHz								
729.46	H	21.59	-51.13	0.00	0.53	-51.66	-13.00	38.66
701.89	V	21.40	-48.48	0.00	0.55	-49.03	-13.00	36.03
1693.200	H	34.78	-69.52	8.73	0.89	-61.68	-13.00	48.68
1693.200	V	35.11	-69.31	8.73	0.89	-61.47	-13.00	48.47
2539.800	H	34.76	-65.62	9.46	1.01	-57.17	-13.00	44.17
2539.800	V	36.03	-64.31	9.46	1.01	-55.86	-13.00	42.86
3386.400	H	54.44	-43.15	10.35	1.18	-33.98	-13.00	20.98
3386.400	V	51.47	-46.07	10.35	1.18	-36.90	-13.00	23.90

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								
317.70	H	42.34	-68.11	0.00	0.34	-68.45	-13.00	55.45
309.99	V	41.89	-66.66	0.00	0.34	-67.00	-13.00	54.00
3700.400	H	60.58	-36.74	10.60	1.25	-27.39	-13.00	14.39
3700.400	V	56.10	-41.20	10.60	1.25	-31.85	-13.00	18.85
5550.600	H	38.15	-55.11	11.44	1.49	-45.16	-13.00	32.16
5550.600	V	37.93	-55.17	11.44	1.49	-45.22	-13.00	32.22
GSM 1900 Frequency:1880MHz								
204.95	H	41.61	-71.18	0.00	0.26	-71.44	-13.00	58.44
447.98	V	41.21	-63.31	0.00	0.43	-63.74	-13.00	50.74
3760.000	H	58.17	-38.24	10.66	1.24	-28.82	-13.00	15.82
3760.000	V	52.21	-44.08	10.66	1.24	-34.66	-13.00	21.66
5640.000	H	40.11	-53.34	11.33	1.54	-43.55	-13.00	30.55
5640.000	V	42.02	-51.31	11.33	1.54	-41.52	-13.00	28.52
GSM 1900 Frequency:1909.8MHz								
317.70	H	42.17	-68.28	0.00	0.34	-68.62	-13.00	55.62
447.98	V	42.25	-62.27	0.00	0.43	-62.70	-13.00	49.70
3819.600	H	57.88	-37.98	10.72	1.29	-28.55	-13.00	15.55
3819.600	V	57.50	-38.22	10.72	1.29	-28.79	-13.00	15.79
5729.400	H	41.68	-51.80	11.22	1.59	-42.17	-13.00	29.17
5729.400	V	43.24	-50.12	11.22	1.59	-40.49	-13.00	27.49

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								
317.70	H	42.60	-67.85	0.00	0.34	-68.19	-13.00	55.19
447.98	V	42.34	-62.18	0.00	0.43	-62.61	-13.00	49.61
3704.800	H	50.29	-46.97	10.60	1.25	-37.62	-13.00	24.62
3704.800	V	47.80	-49.43	10.60	1.25	-40.08	-13.00	27.08
5557.200	H	35.45	-57.83	11.43	1.49	-47.89	-13.00	34.89
5557.200	V	34.32	-58.81	11.43	1.49	-48.87	-13.00	35.87
WCDMA Band II, Frequency:1880 MHz								
317.70	H	42.98	-67.47	0.00	0.34	-67.81	-13.00	54.81
446.41	V	43.08	-61.50	0.00	0.43	-61.93	-13.00	48.93
3760.000	H	48.87	-47.54	10.66	1.24	-38.12	-13.00	25.12
3760.000	V	49.23	-47.06	10.66	1.24	-37.64	-13.00	24.64
5640.000	H	35.13	-58.32	11.33	1.54	-48.53	-13.00	35.53
5640.000	V	34.27	-59.06	11.33	1.54	-49.27	-13.00	36.27
WCDMA Band II, Frequency:1907.6MHz								
207.12	H	42.20	-70.55	0.00	0.26	-70.81	-13.00	57.81
309.99	V	41.91	-66.64	0.00	0.34	-66.98	-13.00	53.98
3815.200	H	48.28	-47.57	10.72	1.29	-38.14	-13.00	25.14
3815.200	V	51.00	-44.69	10.72	1.29	-35.26	-13.00	22.26
5722.800	H	34.27	-59.22	11.23	1.58	-49.57	-13.00	36.57
5722.800	V	35.81	-57.54	11.23	1.58	-47.89	-13.00	34.89

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

LTE Band 2 (30MHz-20GHz):

LTE Band 1 (SBCAR 1850.7 MHz)								
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								
207.85	H	42.83	-69.90	0.00	0.26	-70.16	-13.00	57.16
449.56	V	42.40	-62.07	0.00	0.43	-62.50	-13.00	49.50
3701.400	H	58.04	-39.27	10.60	1.25	-29.92	-13.00	16.92
3701.400	V	55.08	-42.21	10.60	1.25	-32.86	-13.00	19.86
5552.100	H	34.99	-58.28	11.44	1.49	-48.33	-13.00	35.33
5552.100	V	37.74	-55.36	11.44	1.49	-45.41	-13.00	32.41
QPSK, Frequency: 1880 MHz								
207.85	H	42.39	-70.34	0.00	0.26	-70.60	-13.00	57.60
449.56	V	42.48	-61.99	0.00	0.43	-62.42	-13.00	49.42
3760.000	H	54.52	-41.89	10.66	1.24	-32.47	-13.00	19.47
3760.000	V	54.70	-41.59	10.66	1.24	-32.17	-13.00	19.17
5640.000	H	34.87	-58.58	11.33	1.54	-48.79	-13.00	35.79
5640.000	V	35.69	-57.64	11.33	1.54	-47.85	-13.00	34.85
QPSK, Frequency: 1909.3 MHz								
204.23	H	43.14	-69.67	0.00	0.26	-69.93	-13.00	56.93
447.98	V	41.96	-62.56	0.00	0.43	-62.99	-13.00	49.99
3818.600	H	53.68	-42.18	10.72	1.29	-32.75	-13.00	19.75
3818.600	V	56.89	-38.82	10.72	1.29	-29.39	-13.00	16.39
5727.900	H	36.11	-57.37	11.23	1.59	-47.73	-13.00	34.73
5727.900	V	40.10	-53.26	11.23	1.59	-43.62	-13.00	30.62

LTE Band 4 (30MHz-20GHz):

EYE Band 4 (50MHz - 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								
205.67	H	43.17	-69.61	0.00	0.26	-69.87	-13.00	56.87
383.93	V	41.40	-65.23	0.00	0.38	-65.61	-13.00	52.61
3421.400	H	57.11	-40.65	10.37	1.17	-31.45	-13.00	18.45
3421.400	V	58.10	-39.63	10.37	1.17	-30.43	-13.00	17.43
5132.100	H	35.12	-58.45	11.28	1.47	-48.64	-13.00	35.64
5132.100	V	34.69	-58.77	11.28	1.47	-48.96	-13.00	35.96
QPSK, Frequency: 1732.5 MHz								
207.12	H	43.40	-69.35	0.00	0.26	-69.61	-13.00	56.61
446.41	V	42.09	-62.49	0.00	0.43	-62.92	-13.00	49.92
3465.000	H	57.85	-39.96	10.39	1.15	-30.72	-13.00	17.72
3465.000	V	56.37	-41.40	10.39	1.15	-32.16	-13.00	19.16
5197.500	H	37.96	-56.17	11.32	1.44	-46.29	-13.00	33.29
5197.500	V	35.49	-58.49	11.32	1.44	-48.61	-13.00	35.61
QPSK, Frequency: 1754.3MHz								
207.12	H	42.86	-69.89	0.00	0.26	-70.15	-13.00	57.15
446.41	V	41.56	-63.02	0.00	0.43	-63.45	-13.00	50.45
3508.600	H	61.20	-36.62	10.41	1.19	-27.40	-13.00	14.40
3508.600	V	58.09	-39.67	10.41	1.19	-30.45	-13.00	17.45
5262.900	H	34.78	-58.92	11.36	1.47	-49.03	-13.00	36.03
5262.900	V	35.26	-58.21	11.36	1.47	-48.32	-13.00	35.32

LTE Band 7 (30MHz-26.5GHz):

EYE Band 7 (50MHz 20.5GHz)								
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: 2502.5 MHz								
316.58	H	42.48	-67.99	0.00	0.34	-68.33	-25.00	43.33
446.41	V	42.20	-62.38	0.00	0.43	-62.81	-25.00	37.81
5005.000	H	38.34	-54.62	11.20	1.47	-44.89	-25.00	19.89
5005.000	V	38.61	-54.21	11.20	1.47	-44.48	-25.00	19.48
7507.500	H	38.13	-51.66	10.90	1.95	-42.71	-25.00	17.71
7507.500	V	36.41	-53.88	10.90	1.95	-44.93	-25.00	19.93
QPSK, Frequency:2535 MHz								
316.58	H	43.07	-67.40	0.00	0.34	-67.74	-25.00	42.74
446.41	V	41.60	-62.98	0.00	0.43	-63.41	-25.00	38.41
5070.000	H	35.44	-57.75	11.24	1.47	-47.98	-25.00	22.98
5070.000	V	39.57	-53.52	11.24	1.47	-43.75	-25.00	18.75
7605.000	H	37.87	-51.60	10.88	2.01	-42.73	-25.00	17.73
7605.000	V	36.87	-53.32	10.88	2.01	-44.45	-25.00	19.45
QPSK, Frequency: 2567.5 MHz								
315.48	H	42.36	-68.13	0.00	0.34	-68.47	-25.00	43.47
381.24	V	41.39	-65.31	0.00	0.38	-65.69	-25.00	40.69
5135.000	H	38.95	-54.65	11.28	1.47	-44.84	-25.00	19.84
5135.000	V	39.19	-54.30	11.28	1.47	-44.49	-25.00	19.49
7702.500	H	40.17	-49.35	10.86	1.97	-40.46	-25.00	15.46
7702.500	V	38.49	-51.69	10.86	1.97	-42.80	-25.00	17.80

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 =====