

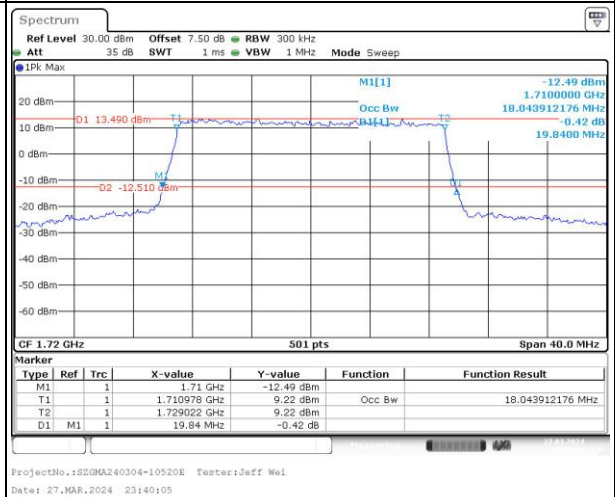
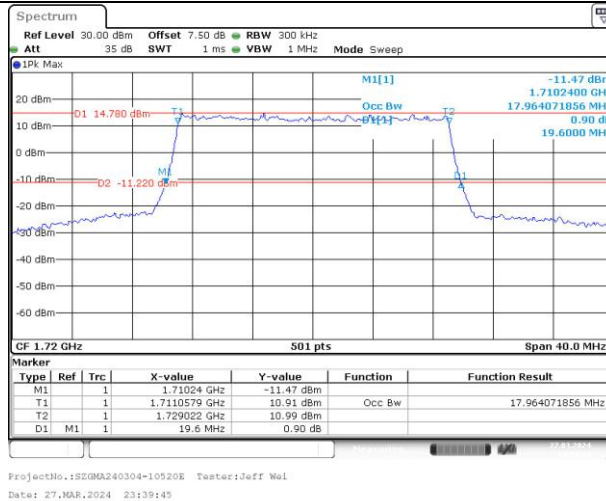
Occupied Bandwidth

Channel

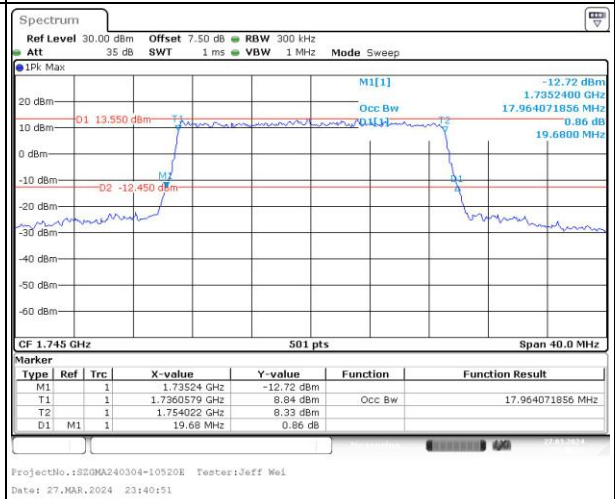
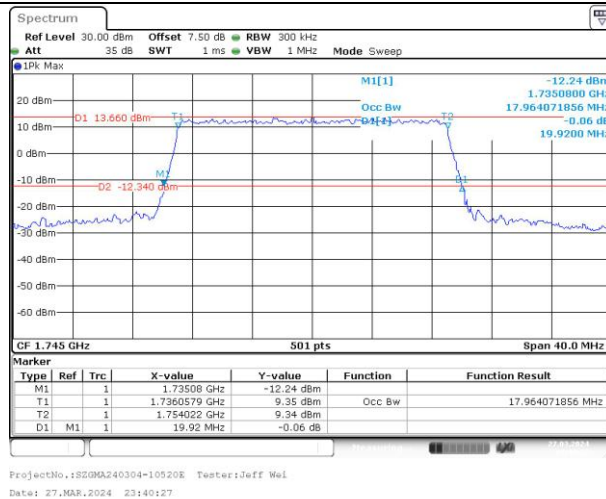
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

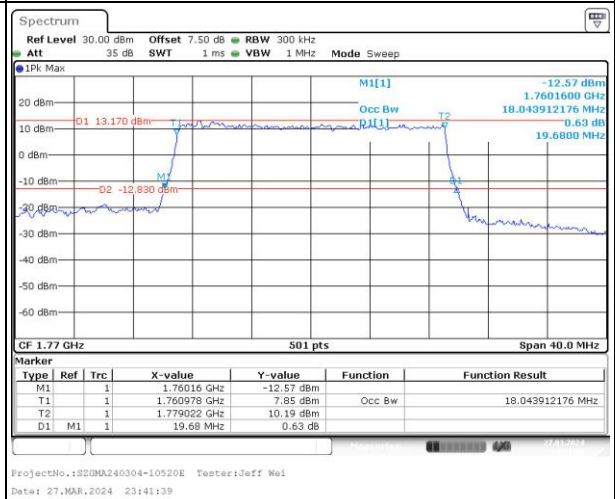
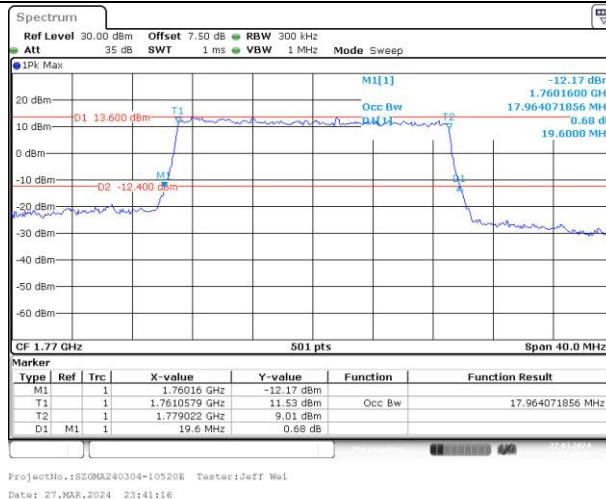
Lowest



Middle



Highest

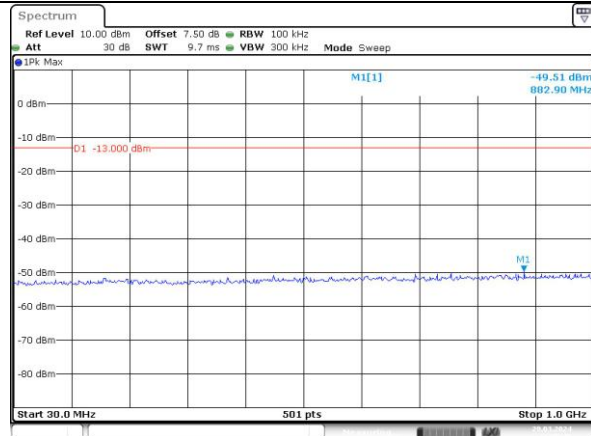


Spurious Emissions at Antenna Terminal

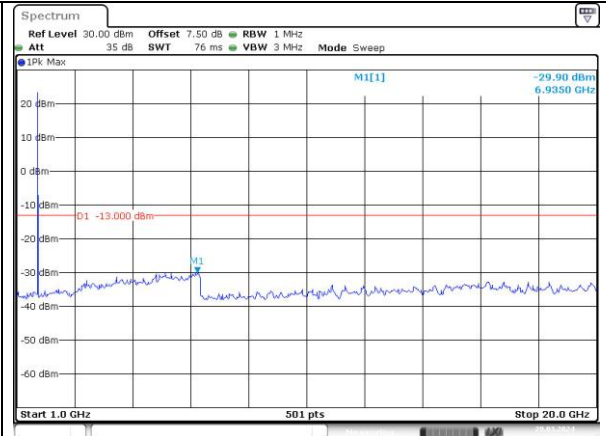
Channel

1.4MHz Bandwidth QPSK

Lowest

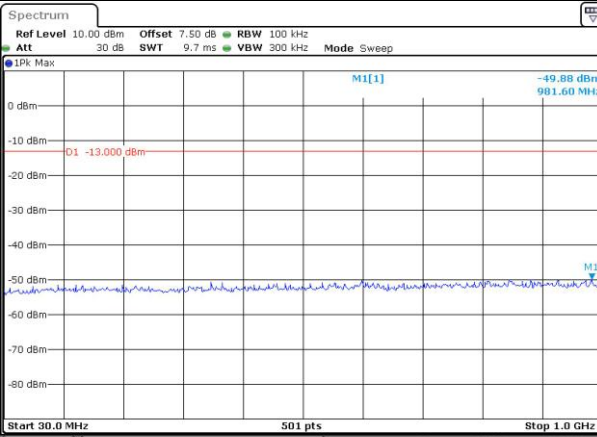


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:30:45

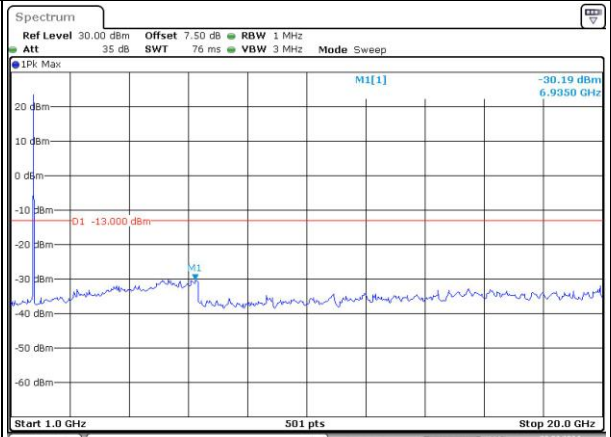


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:31:07

Middle

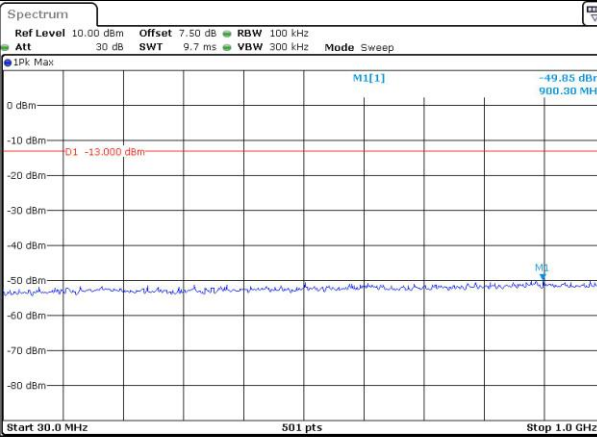


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:31:36

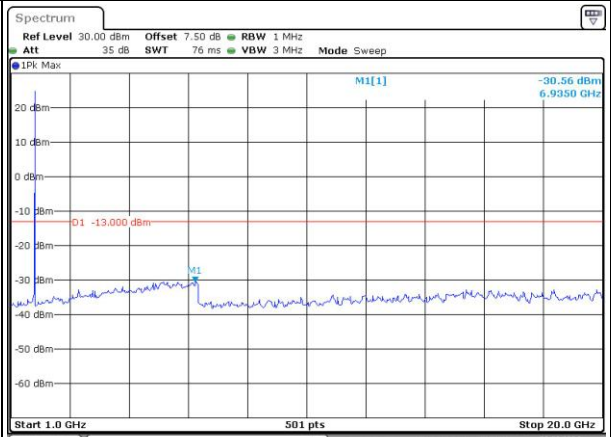


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:31:55

Highest



ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:32:33



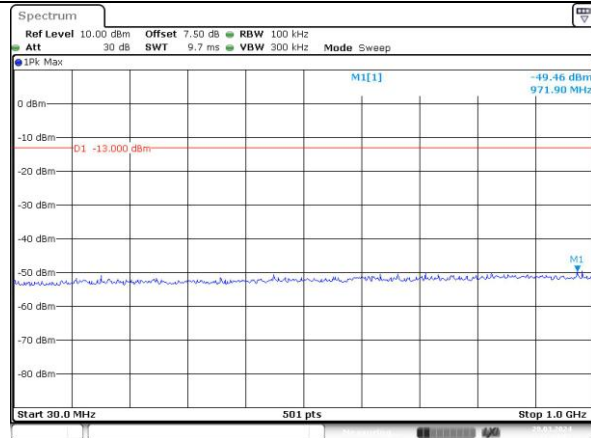
ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:32:52

Spurious Emissions at Antenna Terminal

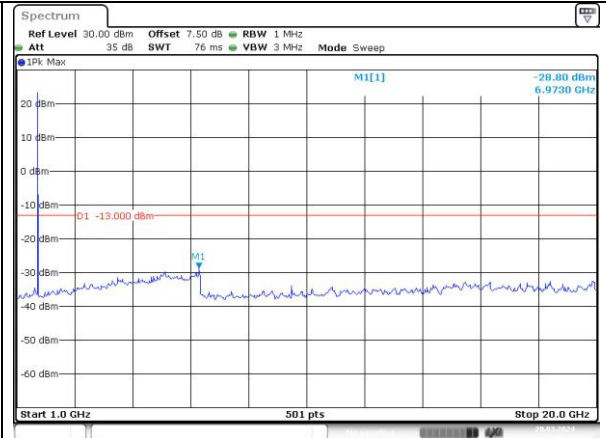
Channel

3MHz Bandwidth QPSK

Lowest

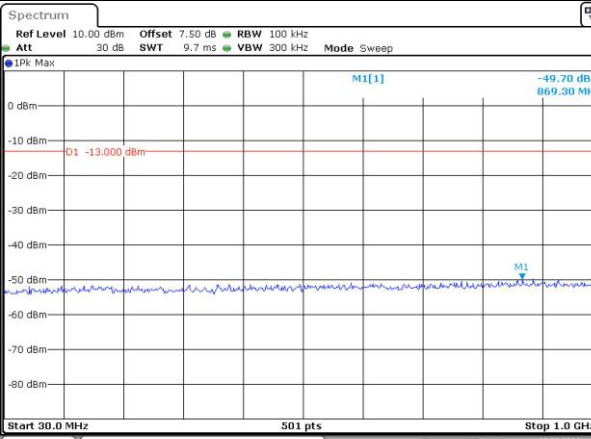


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:34:02

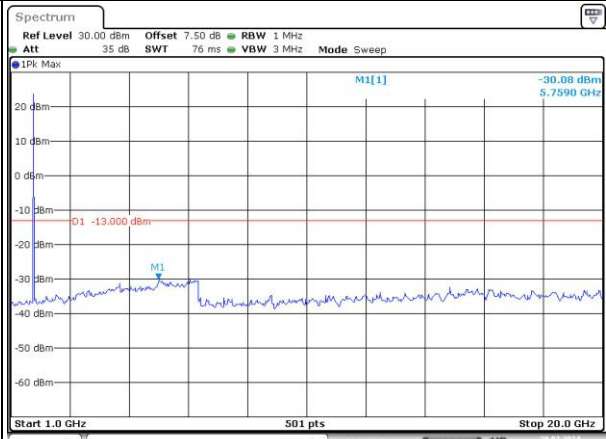


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:34:27

Middle

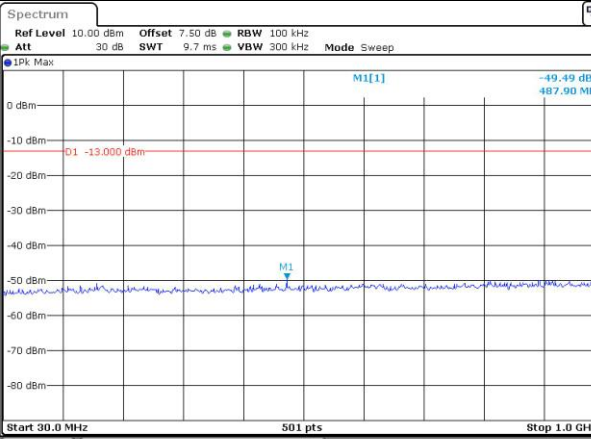


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:35:05

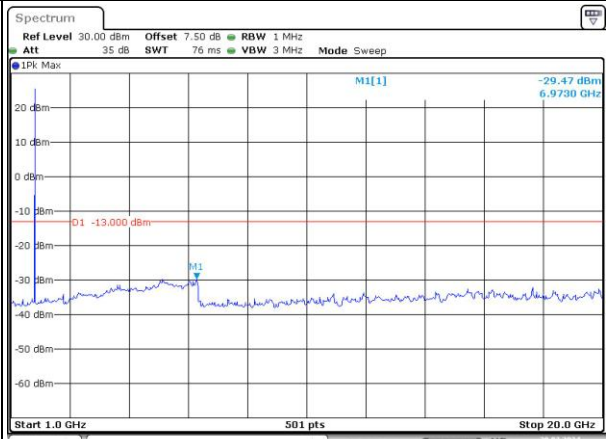


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:35:24

Highest



ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:35:53



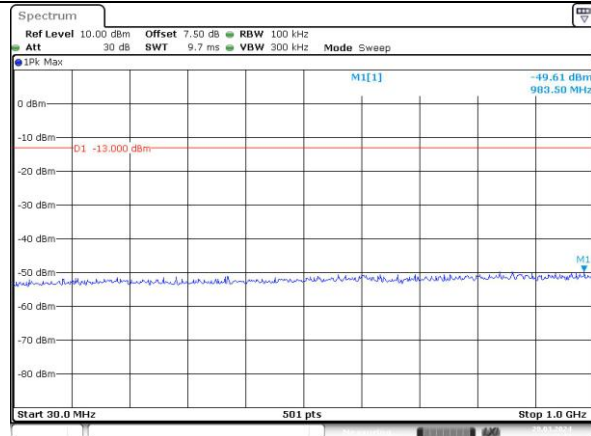
ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:36:15

Spurious Emissions at Antenna Terminal

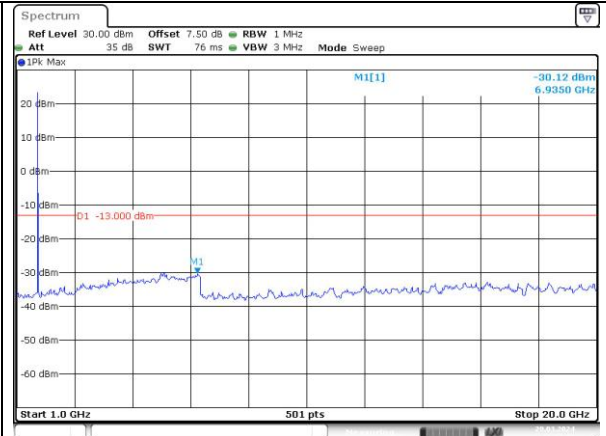
Channel

5MHz Bandwidth QPSK

Lowest

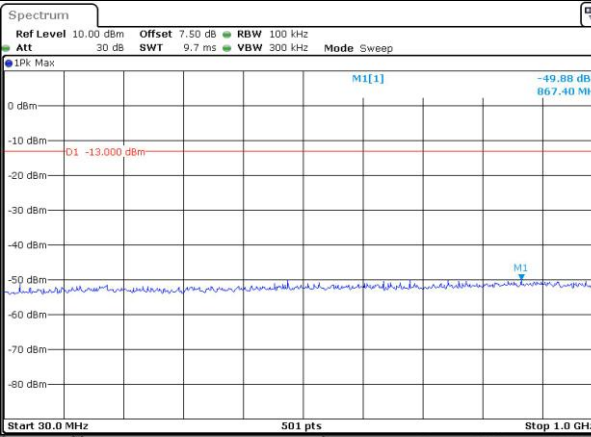


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:37:18

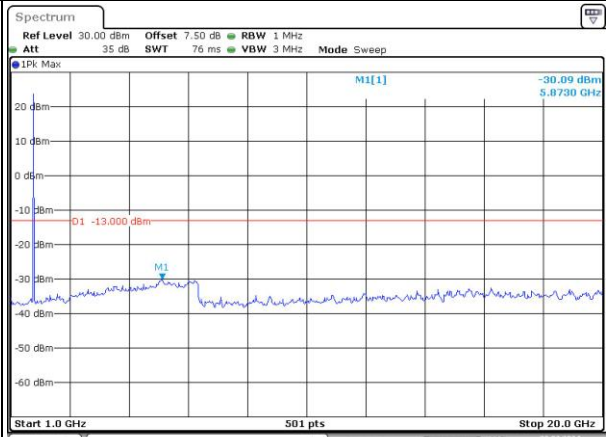


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:37:39

Middle

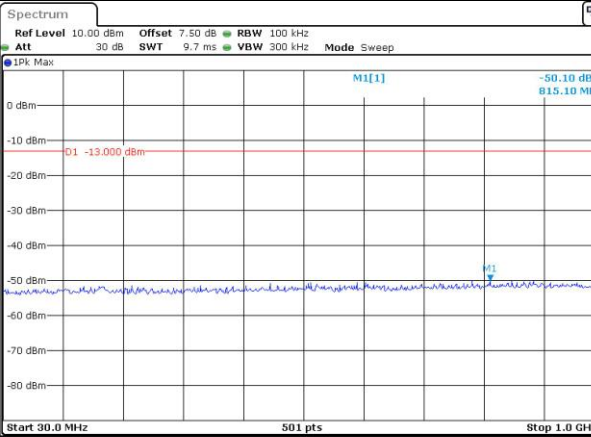


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:38:20

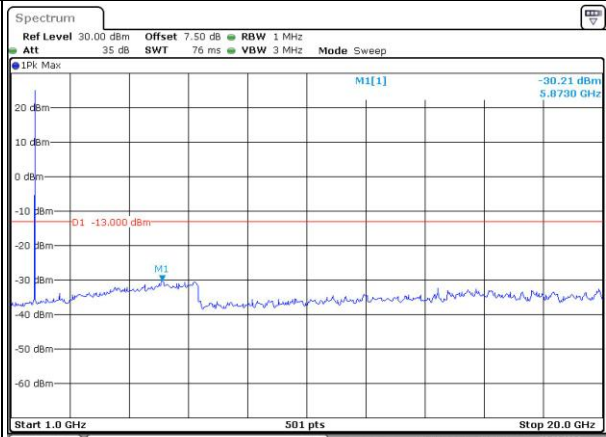


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:38:42

Highest



ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:39:18



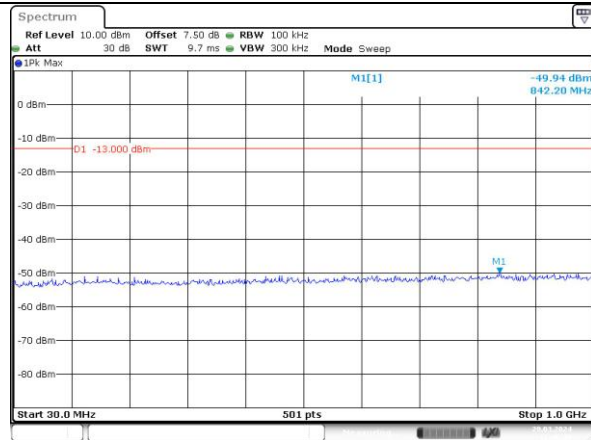
ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
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Spurious Emissions at Antenna Terminal

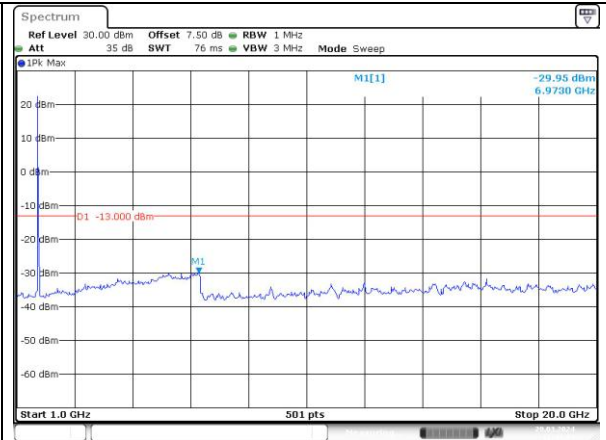
Channel

10MHz Bandwidth QPSK

Lowest

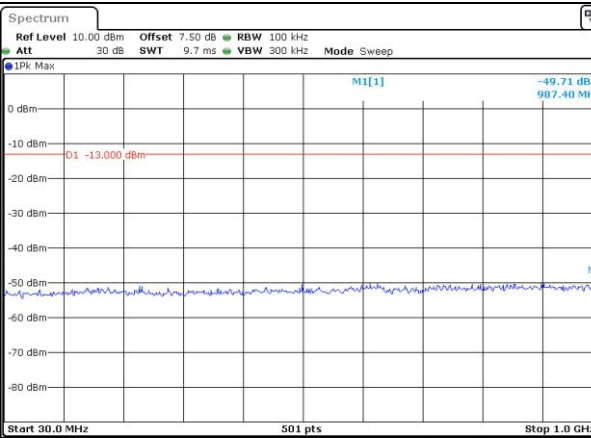


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Date: 29.MAR.2024 11:40:36

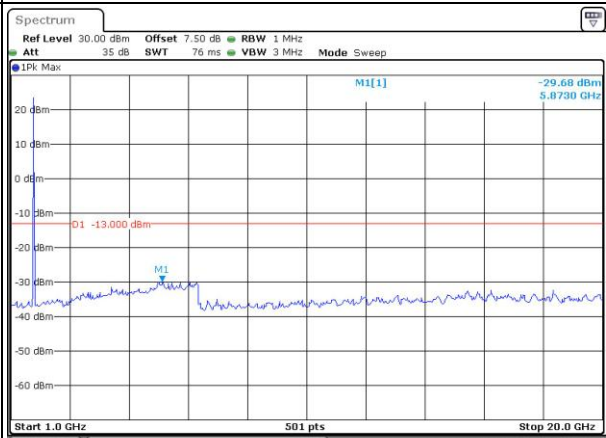


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:41:05

Middle

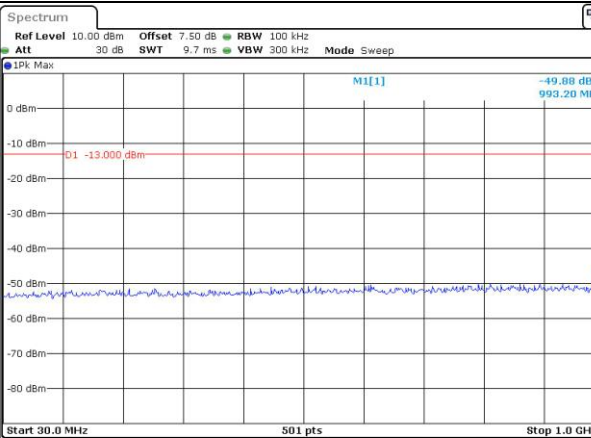


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
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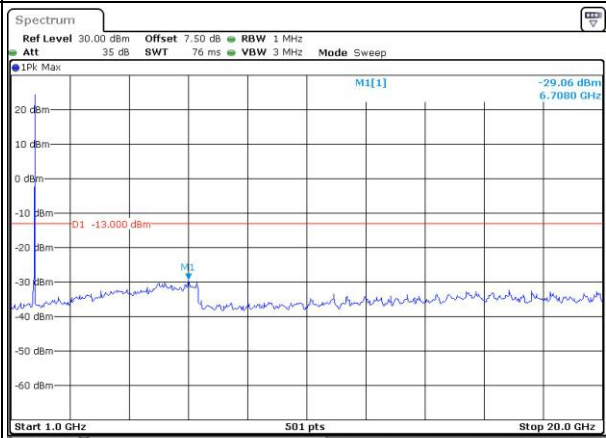


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:42:13

Highest



ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:42:49



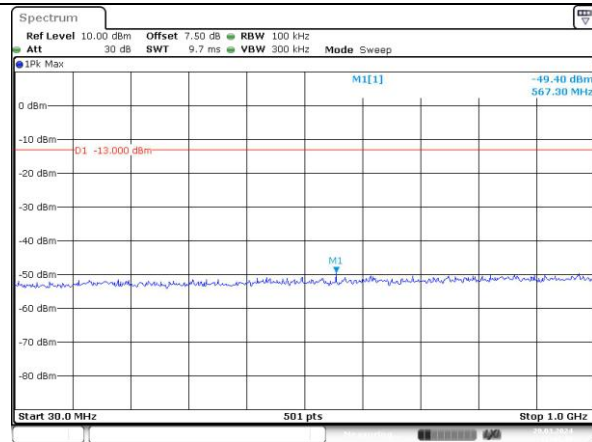
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Spurious Emissions at Antenna Terminal

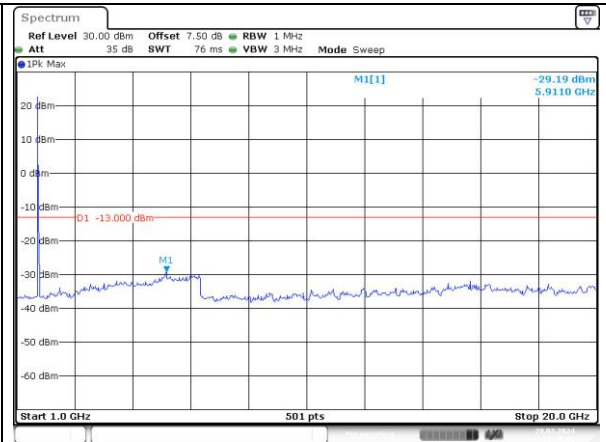
Channel

15MHz Bandwidth QPSK

Lowest

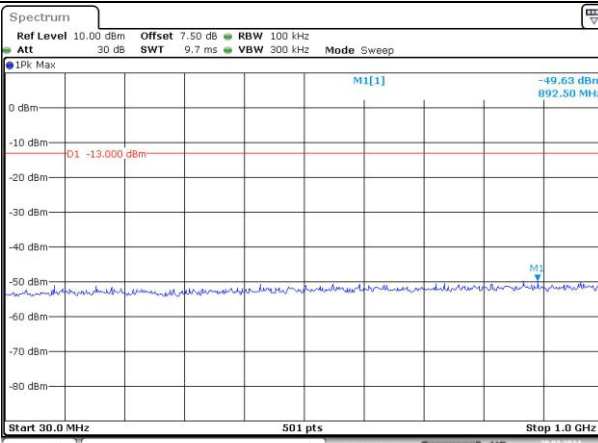


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:44:37

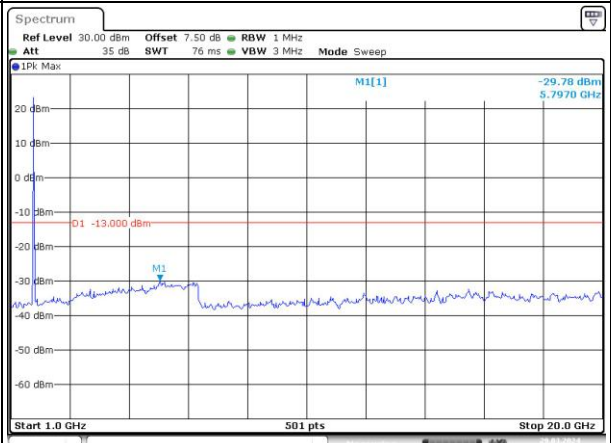


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:45:02

Middle

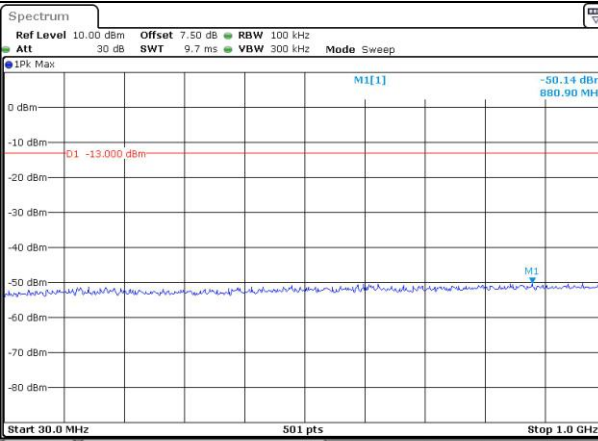


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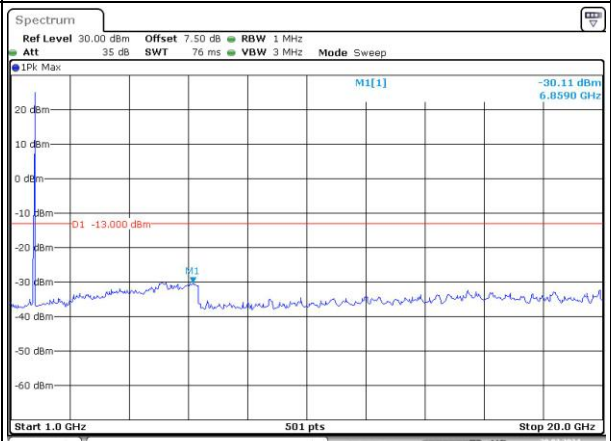


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:46:00

Highest



ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:46:43



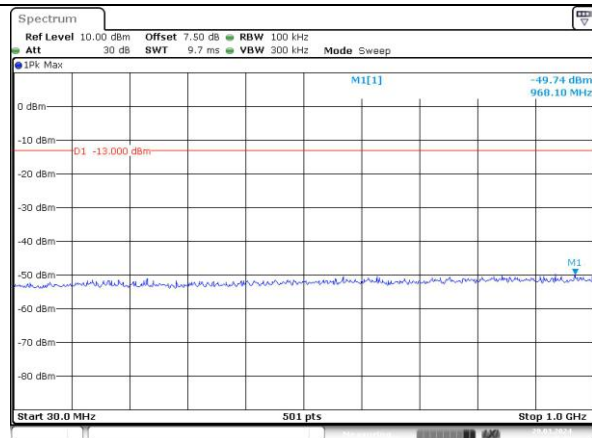
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Spurious Emissions at Antenna Terminal

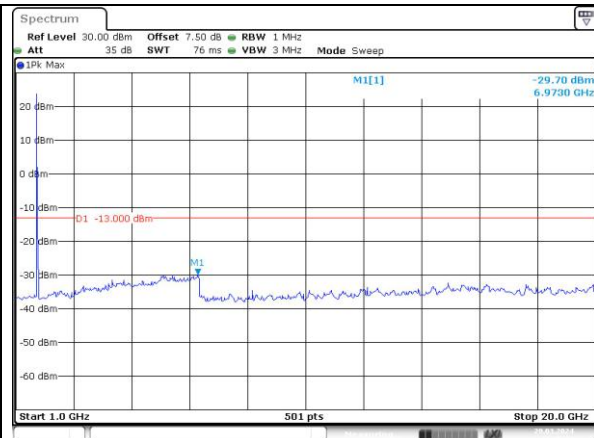
Channel

20MHz Bandwidth QPSK

Lowest

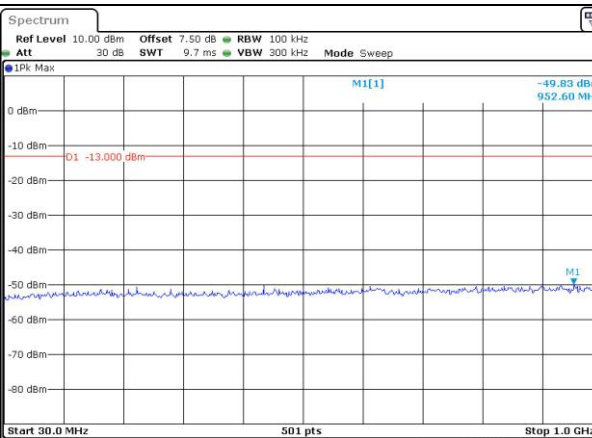


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:49:00

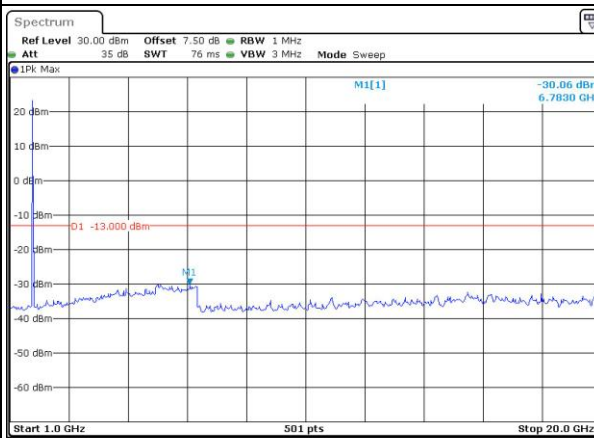


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:49:25

Middle

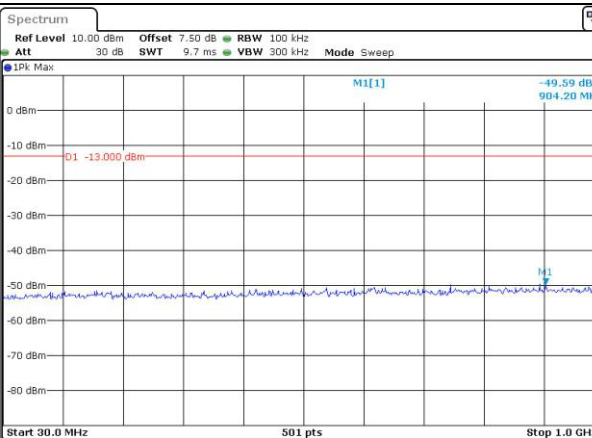


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Date: 29.MAR.2024 11:50:09

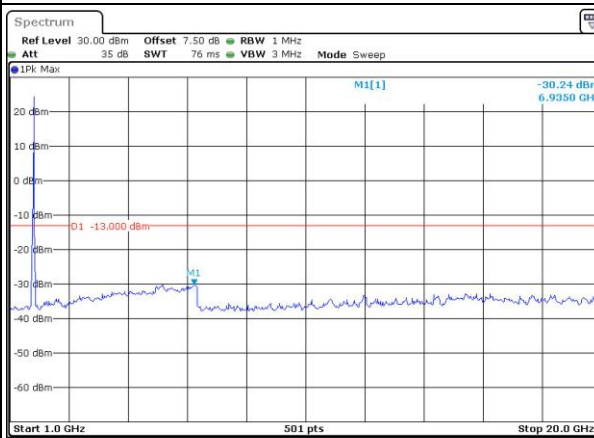


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:50:28

Highest

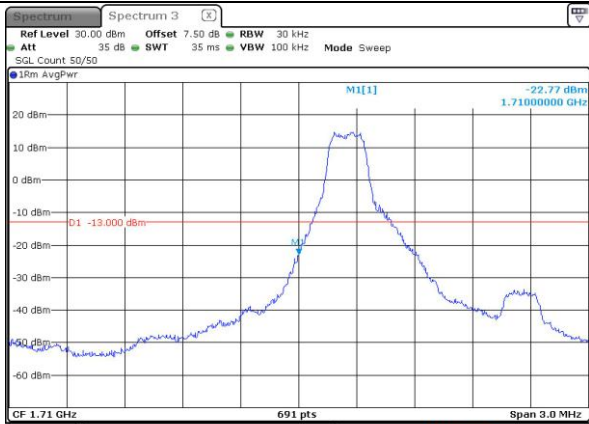
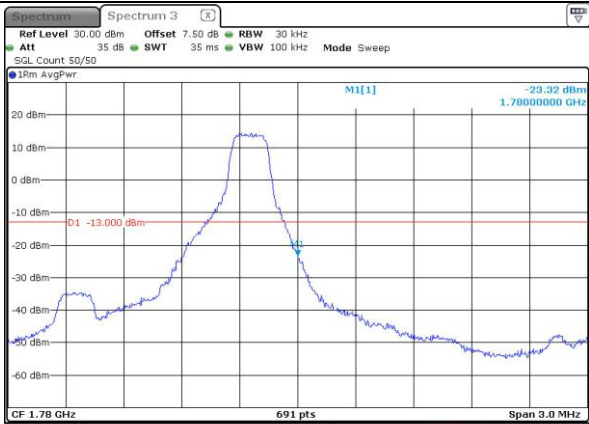
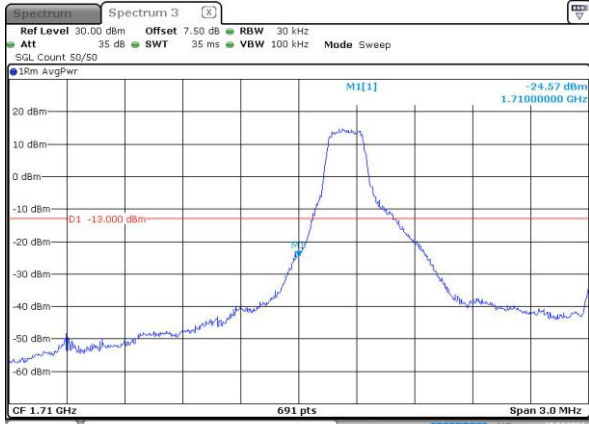
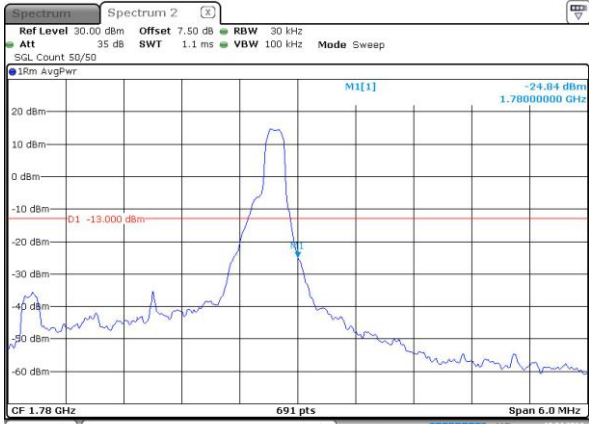
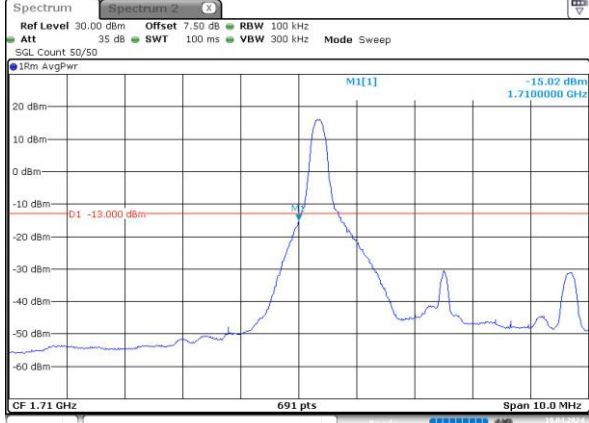
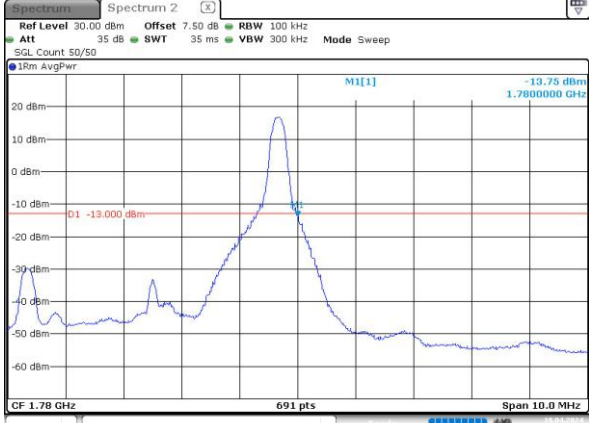


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:51:12

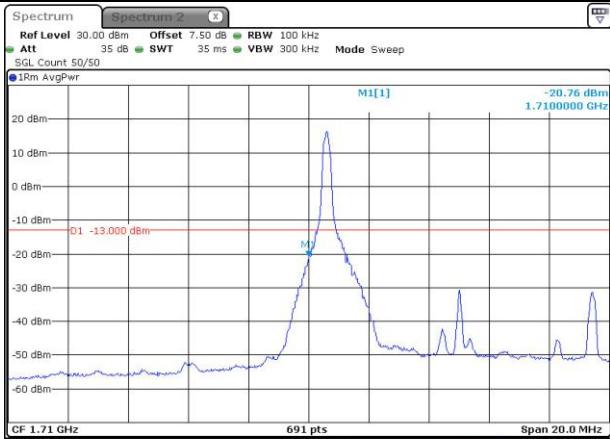
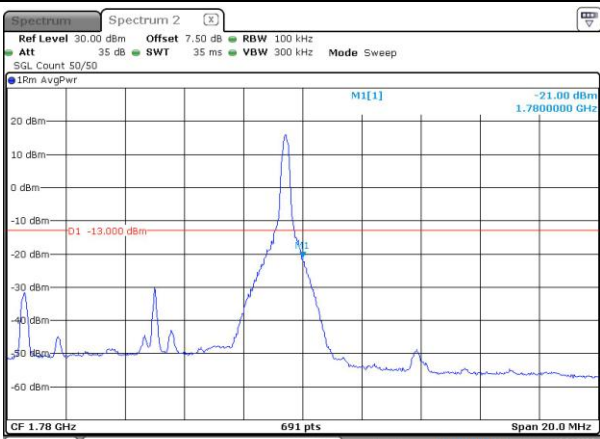
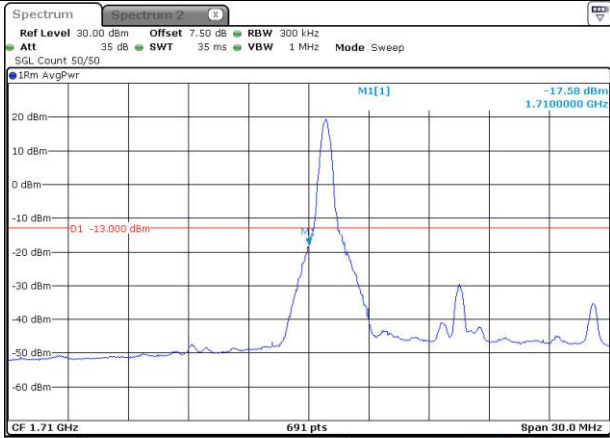
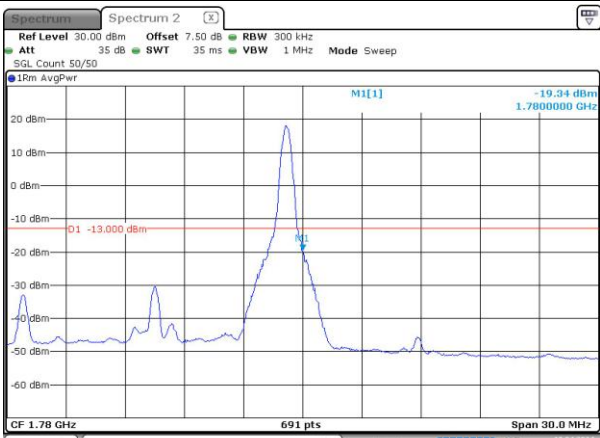
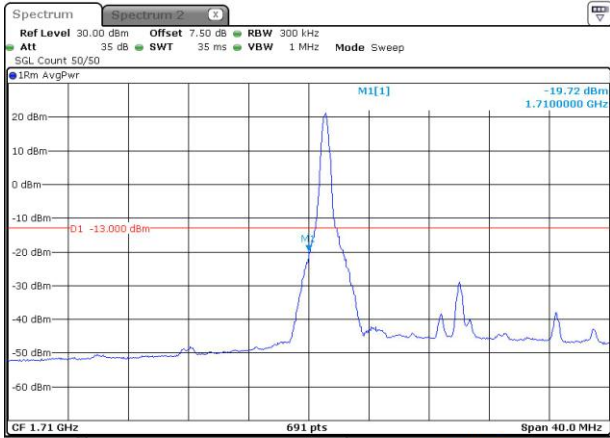
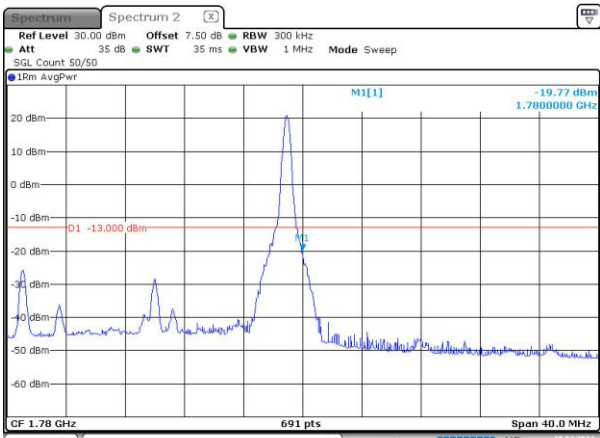


ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei
Date: 29.MAR.2024 11:51:37

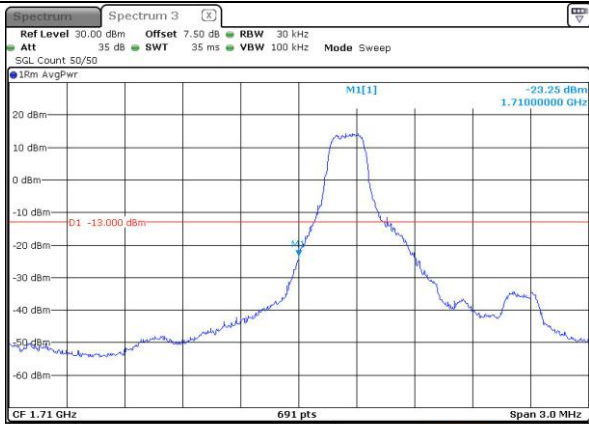
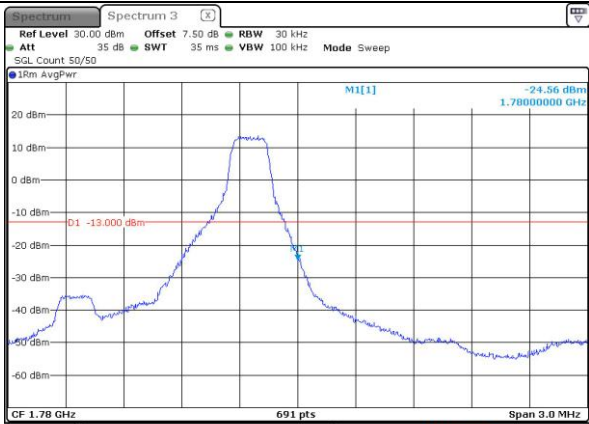
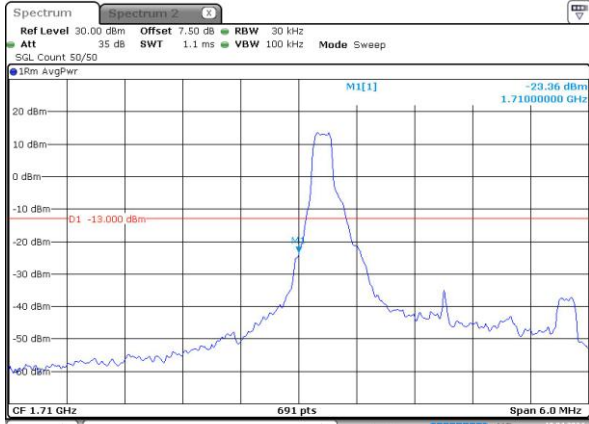
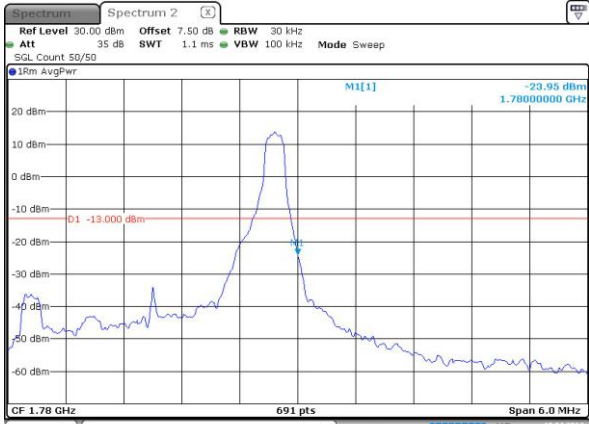
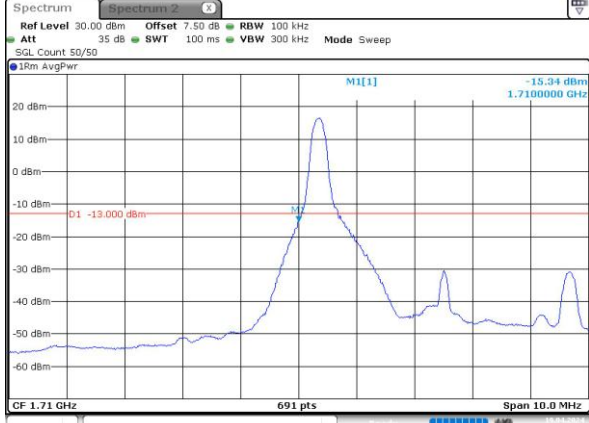
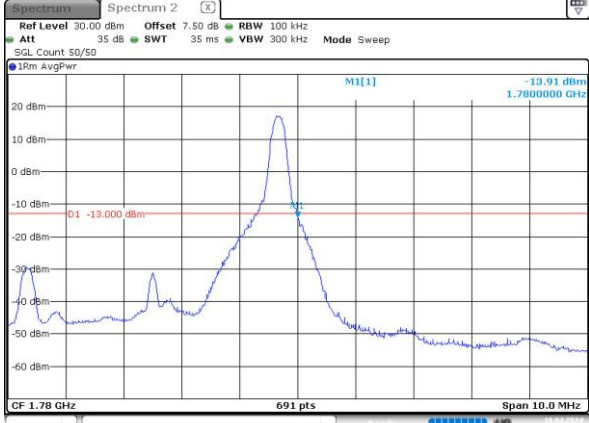
Out of band emission, Band Edge

Mode	Lowest-RB 1#0	Highest-RB 1#Max
QPSK 1.4MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -22.77 dBm 1.71000000 GHz D1 -13.000 dBm CF 1.71 GHz 691 pts Span 3.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:12:13	 Ref Level 30.00 dBm Offset 7.50 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -23.32 dBm 1.70000000 GHz D1 -13.000 dBm CF 1.70 GHz 691 pts Span 3.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:13:34
QPSK 3MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -24.57 dBm 1.71000000 GHz D1 -13.000 dBm CF 1.71 GHz 691 pts Span 3.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:18:52	 Ref Level 30.00 dBm Offset 7.50 dB RBW 30 kHz Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -24.04 dBm 1.70000000 GHz D1 -13.000 dBm CF 1.70 GHz 691 pts Span 3.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:12:11
QPSK 5MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 100 ms VBW 300 kHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -15.02 dBm 1.71000000 GHz D1 -13.000 dBm CF 1.71 GHz 691 pts Span 10.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:29:49	 Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -13.75 dBm 1.70000000 GHz D1 -13.000 dBm CF 1.70 GHz 691 pts Span 10.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:41:50

Out of band emission, Band Edge

Mode	Lowest-RB 1#0	Highest-RB 1#Max
QPSK 10MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -20.76 dBm 1.710000 GHz D1 -13.000 dBm CF 1.71 GHz 691 pts Span 20.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:37:53	 Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -21.00 dBm 1.780000 GHz D1 -13.000 dBm CF 1.78 GHz 691 pts Span 20.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:38:56
QPSK 15MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -17.58 dBm 1.710000 GHz D1 -13.000 dBm CF 1.71 GHz 691 pts Span 30.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:43:48	 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -19.34 dBm 1.780000 GHz D1 -13.000 dBm CF 1.78 GHz 691 pts Span 30.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:45:18
QPSK 20MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -19.72 dBm 1.710000 GHz D1 -13.000 dBm CF 1.71 GHz 691 pts Span 40.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:50:02	 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -19.77 dBm 1.780000 GHz D1 -13.000 dBm CF 1.78 GHz 691 pts Span 40.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:51:24

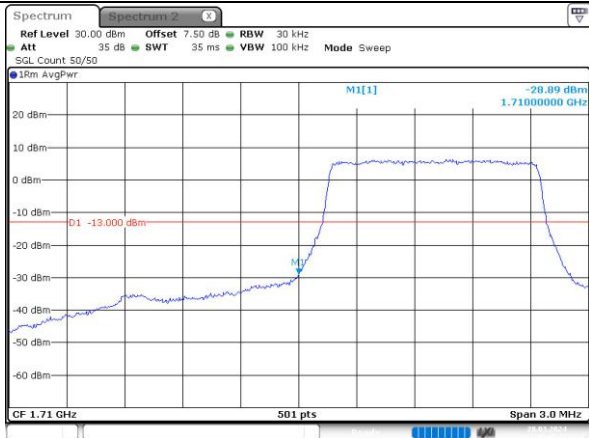
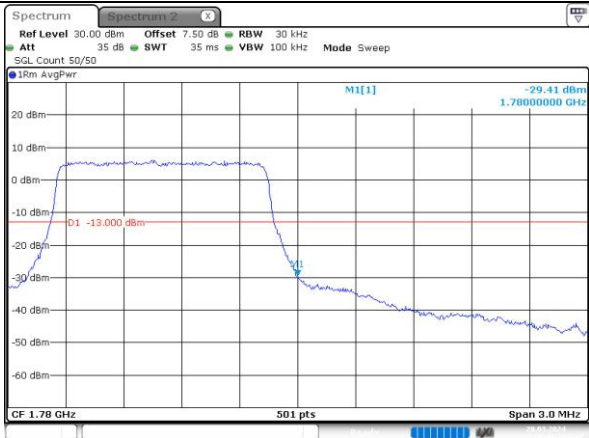
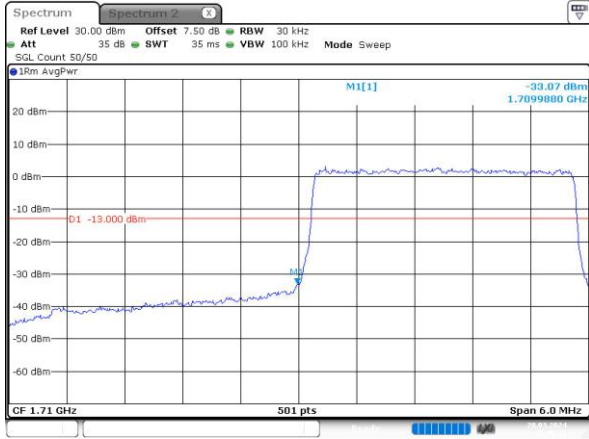
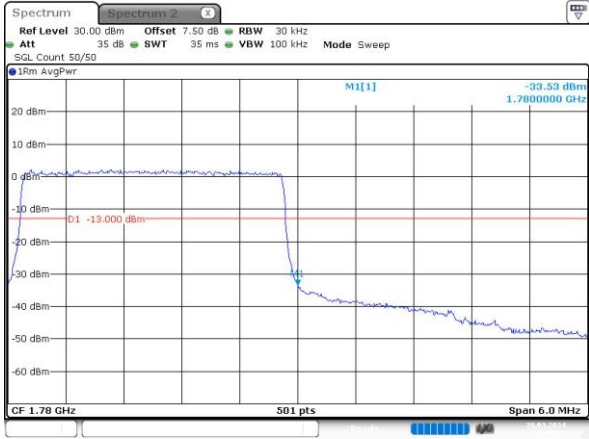
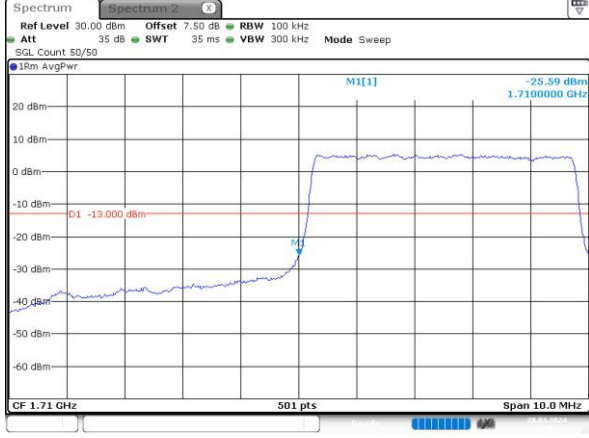
Out of band emission, Band Edge

Mode	Lowest-RB 1#0	Highest-RB 1#Max
16QAM 1.4MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -23.25 dBm 1.71000000 GHz D1 -13.000 dBm CF 1.71 GHz 691 pts Span 3.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:11:46	 Ref Level 30.00 dBm Offset 7.50 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -24.56 dBm 1.70000000 GHz D1 -13.000 dBm CF 1.78 GHz 691 pts Span 3.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:11:17
16QAM 3MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 30 kHz Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -23.36 dBm 1.71000000 GHz D1 -13.000 dBm CF 1.71 GHz 691 pts Span 6.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:12:18	 Ref Level 30.00 dBm Offset 7.50 dB RBW 30 kHz Att 35 dB SWT 1.1 ms VBW 100 kHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -23.95 dBm 1.70000000 GHz D1 -13.000 dBm CF 1.78 GHz 691 pts Span 6.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:12:16
16QAM 5MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 100 ms VBW 300 kHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -15.34 dBm 1.71000000 GHz D1 -13.000 dBm CF 1.71 GHz 691 pts Span 10.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:13:16	 Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -13.91 dBm 1.70000000 GHz D1 -13.000 dBm CF 1.78 GHz 691 pts Span 10.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 19.APR.2024 15:14:10

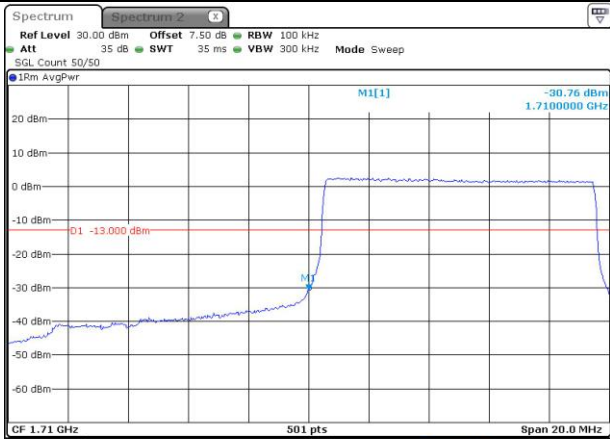
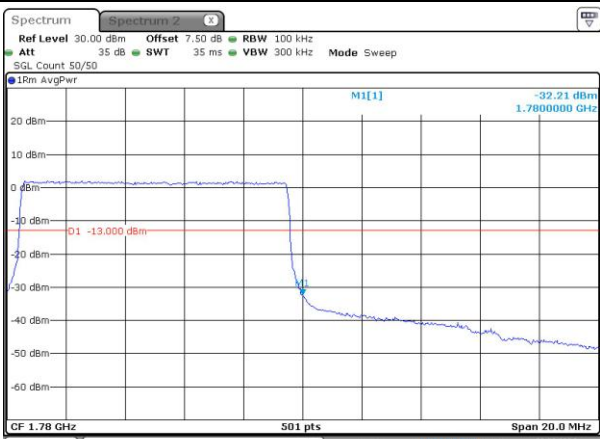
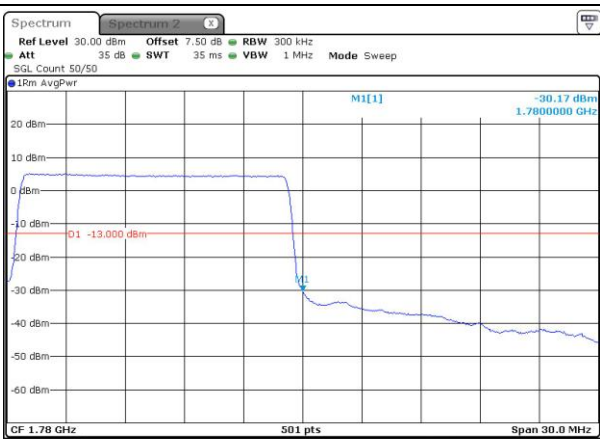
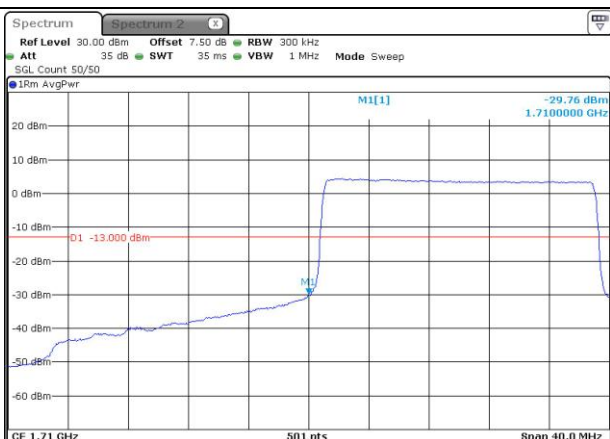
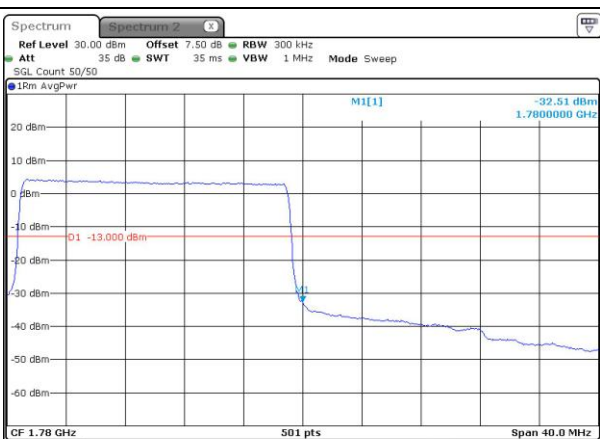
Out of band emission, Band Edge

Mode	Lowest-RB 1#0	Highest-RB 1#Max
16QAM 10MHz	ProjectNo.:SZGMA240304-10520E Testers:Jeff Wei Date: 19.APR.2024 15:38:43	ProjectNo.:SZGMA240304-10520E Testers:Jeff Wei Date: 19.APR.2024 15:39:20
16QAM 15MHz	ProjectNo.:SZGMA240304-10520E Testers:Jeff Wei Date: 19.APR.2024 15:44:15	ProjectNo.:SZGMA240304-10520E Testers:Jeff Wei Date: 19.APR.2024 15:44:54
16QAM 20MHz	ProjectNo.:SZGMA240304-10520E Testers:Jeff Wei Date: 19.APR.2024 15:50:25	ProjectNo.:SZGMA240304-10520E Testers:Jeff Wei Date: 19.APR.2024 15:50:54

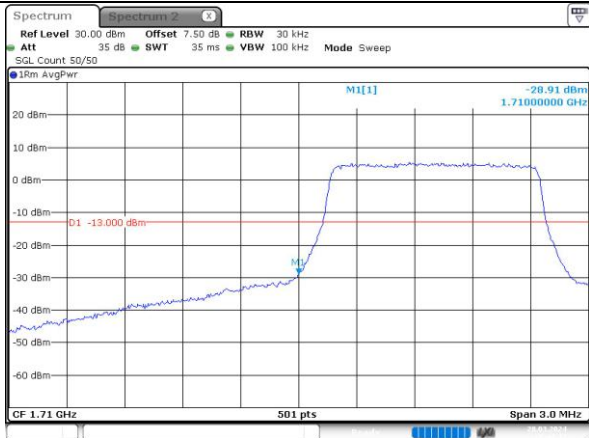
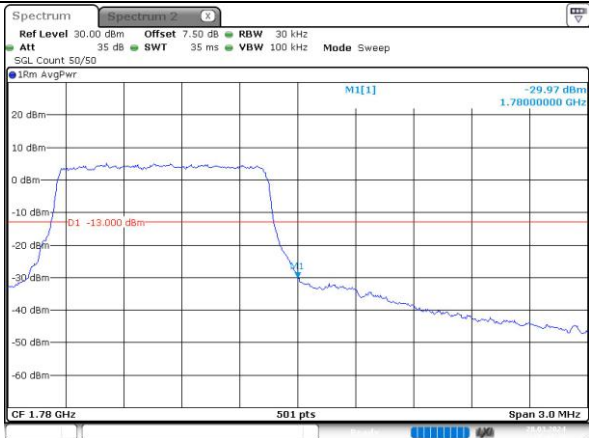
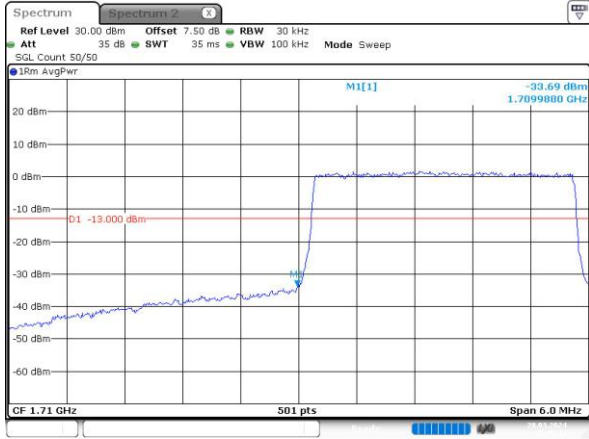
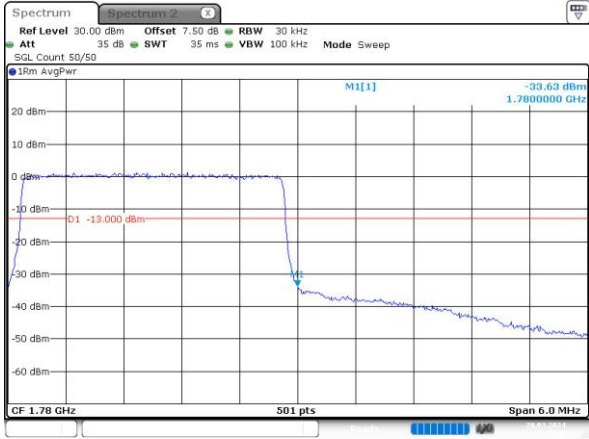
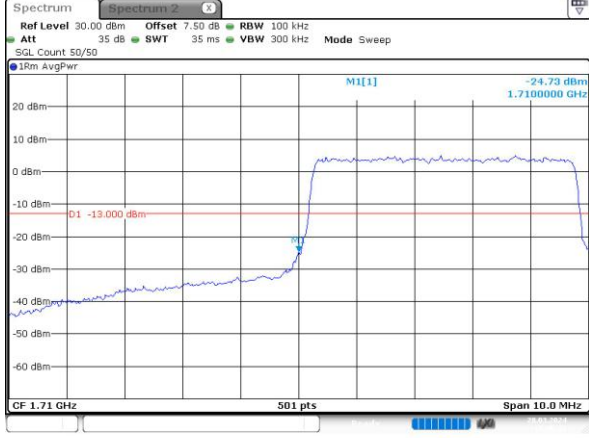
Out of band emission, Band Edge

Mode	Lowest-Full RB	Highest-Full RB
QPSK 1.4MHz	 ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:44:12	 ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:44:24
QPSK 3MHz	 ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:45:12	 ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:45:24
QPSK 5MHz	 ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:46:29	 ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:46:42

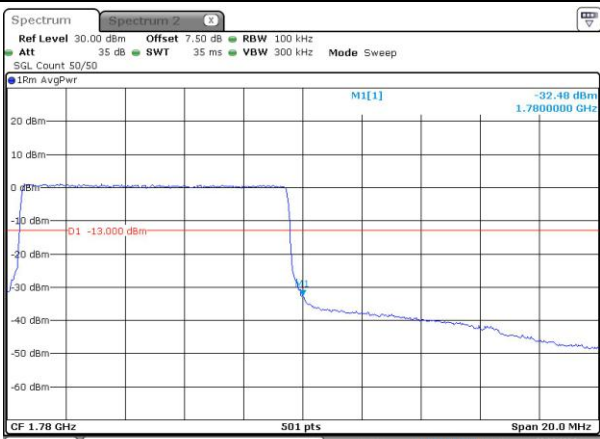
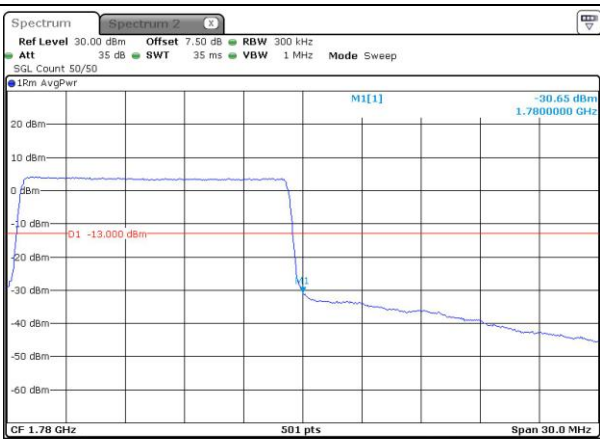
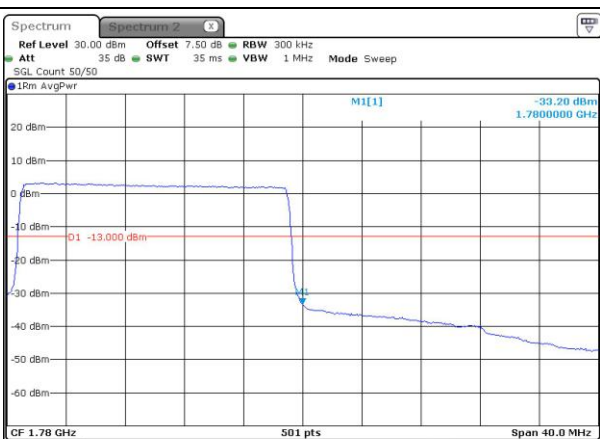
Out of band emission, Band Edge

Mode	Lowest-Full RB	Highest-Full RB
QPSK 10MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -30.76 dBm 1.7100000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 20.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:47:23	 Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -32.21 dBm 1.7800000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 20.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:47:37
QPSK 15MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -29.04 dBm 1.7100000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 30.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:48:19	 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -30.17 dBm 1.7800000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 30.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:48:33
QPSK 20MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -29.76 dBm 1.7100000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 40.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:49:31	 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -32.51 dBm 1.7800000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 40.0 MHz ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:49:46

Out of band emission, Band Edge

Mode	Lowest-Full RB	Highest-Full RB
16QAM 1.4MHz	 ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:44:18	 ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:44:30
16QAM 3MHz	 ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:45:18	 ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:45:30
16QAM 5MHz	 ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:46:35	 ProjectNo.:SZGMA240304-10520E Tester:Jeff Wei Date: 28.MAR.2024 15:46:48

Out of band emission, Band Edge

Mode	Lowest-Full RB	Highest-Full RB
16QAM 10MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -31.42 dBm 1.710000 GHz CF 1.71 GHz 501 pts Span 20.0 MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -32.48 dBm 1.780000 GHz CF 1.78 GHz 501 pts Span 20.0 MHz
16QAM 15MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -28.88 dBm 1.710000 GHz CF 1.71 GHz 501 pts Span 30.0 MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -30.65 dBm 1.780000 GHz CF 1.78 GHz 501 pts Span 30.0 MHz
16QAM 20MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -30.21 dBm 1.710000 GHz CF 1.71 GHz 501 pts Span 40.0 MHz	 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -33.20 dBm 1.780000 GHz CF 1.78 GHz 501 pts Span 40.0 MHz

5.15 Antenna Port Test Data and Results for LTE Band 71

Serial Number:	2I92-2	Test Date:	2024/3/27~2024/4/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jeff Wei	Test Result:	Pass

Environmental Conditions:			
Temperature: (°C)	24.7~27.2	49~72	100.2~101.2

Test Equipment List and Details:					
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101461	2023/11/27	2024/11/26
Micro-Coax	Coaxial Cable	UFA210A	94089550	2023/9/1	2024/8/31
Minl-Clrcuts	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2024/2/25	2025/2/24
R&S	Wideband Radio Communication Tester	CMW500	149216	2023/10/18	2024/10/17
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2023/10/18	2024/10/17
All-sun	Clamp Meter	EM305A	8348897	2023/8/3	2024/8/2
TDK-Lambda	DC Power Supply	Z+60-14	F-08-EM038-1	N/A	N/A
* Statement of Traceability: Bay Area Compliance Laboratories Corp. (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	23.82	23.59	23.49	18.31	34.77
	RB1#13	23.84	23.51	23.6		
	RB1#24	23.76	23.23	23.35		
	RB15#0	22.79	22.44	22.29		
	RB15#10	22.8	22.22	22.32		
	RB25#0	22.73	22.51	22.38		
5MHz 16QAM	RB1#0	22.38	22.28	22.5	17.11	34.77
	RB1#13	22.45	22.53	22.64		
	RB1#24	22.37	22.1	22.54		
	RB15#0	21.39	21.59	21.43		
	RB15#10	21.6	21.53	21.6		
	RB25#0	21.51	21.87	21.65		
10MHz QPSK	RB1#0	23.85	23.71	23.34	18.46	34.77
	RB1#25	23.99	23.67	23.46		
	RB1#49	23.88	23.25	23.3		
	RB25#0	22.94	22.85	22.3		
	RB25#25	22.94	22.47	22.33		
	RB50#0	22.97	22.89	22.38		
10MHz 16QAM	RB1#0	22.85	23.3	22.42	17.77	34.77
	RB1#25	22.94	23.12	22.59		
	RB1#49	22.91	22.87	22.5		
	RB25#0	21.99	22.04	21.38		
	RB25#25	22.01	21.52	21.45		
	RB50#0	21.87	21.97	21.6		
15MHz QPSK	RB1#0	23.81	23.66	23.18	18.33	34.77
	RB1#38	23.86	23.69	23.3		
	RB1#74	23.72	23.21	23.2		
	RB36#0	22.96	22.65	22.31		
	RB36#39	23.02	22.48	22.38		
	RB75#0	22.98	22.83	22.34		
15MHz 16QAM	RB1#0	23.11	22.82	22.3	17.71	34.77
	RB1#38	23.24	22.92	22.42		
	RB1#74	23.07	22.77	22.38		
	RB36#0	21.99	21.63	21.34		
	RB36#39	22.02	21.65	21.45		
	RB75#0	21.95	21.81	21.44		
20MHz QPSK	RB1#0	23.6	23.23	23.04	18.3	34.77
	RB1#50	23.83	23.45	23.51		
	RB1#99	23.61	23.07	23.11		

20MHz 16QAM	RB50#0	22.86	22.46	22.45	18.01	34.77
	RB50#50	22.71	22.34	22.42		
	RB100#0	22.76	22.47	22.44		
	RB1#0	23.1	22.41	22.25		
	RB1#50	23.54	22.7	22.72		
	RB1#99	22.88	22.36	22.29		
20MHz 16QAM	RB50#0	21.87	21.28	21.54	18.01	34.77
	RB50#50	21.8	21.46	21.48		
	RB100#0	21.79	21.35	21.54		

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	4.43	5.25	8.46	13
	RB100#0	4.23	4.41	4.99	13
20MHz 16QAM	RB1#0	5.13	5.71	8.49	13
	RB100#0	5.88	5.86	6.03	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	4.511	4.551	4.511	5.14	5.2	5.2
5MHz 16QAM	4.531	4.531	4.531	5.16	5.18	5.18
10MHz QPSK	8.982	8.982	8.942	9.88	9.92	9.92
10MHz 16QAM	8.982	8.982	8.942	9.84	9.88	9.76
15MHz QPSK	13.473	13.533	13.593	15.18	15.24	15.3
15MHz 16QAM	13.533	13.533	13.533	15.12	15.06	15.12
20MHz QPSK	17.884	17.964	18.044	19.52	19.84	19.68
20MHz 16QAM	17.964	17.964	17.964	19.76	19.76	19.76

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

FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal

Result:	Pass, Test was performed at RB1#0, 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	3.85	664.028	663.00	697.013	698.00
	-20	3.85	664.034	663.00	697.004	698.00
	-10	3.85	664.037	663.00	696.995	698.00
	0	3.85	664.049	663.00	696.998	698.00
	10	3.85	664.046	663.00	697.016	698.00
	20	3.85	664.058	663.00	697.022	698.00
	30	3.85	664.082	663.00	697.049	698.00
	40	3.85	664.061	663.00	697.034	698.00
	50	3.85	664.076	663.00	697.049	698.00
Frequency Stability vs. Voltage	20	3.6	664.079	663.00	697.046	698.00
	20	4.4	664.076	663.00	697.025	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	3.85	664.031	663.00	697.010	698.00
	-20	3.85	664.037	663.00	696.995	698.00
	-10	3.85	664.043	663.00	697.001	698.00
	0	3.85	664.037	663.00	696.998	698.00
	10	3.85	664.040	663.00	697.007	698.00
	20	3.85	664.058	663.00	697.022	698.00
	30	3.85	664.079	663.00	697.049	698.00
	40	3.85	664.076	663.00	697.031	698.00
	50	3.85	664.064	663.00	697.049	698.00
Frequency Stability vs. Voltage	20	3.6	664.085	663.00	697.034	698.00
	20	4.4	664.061	663.00	697.049	698.00
					Result:	Pass

Test Plots:

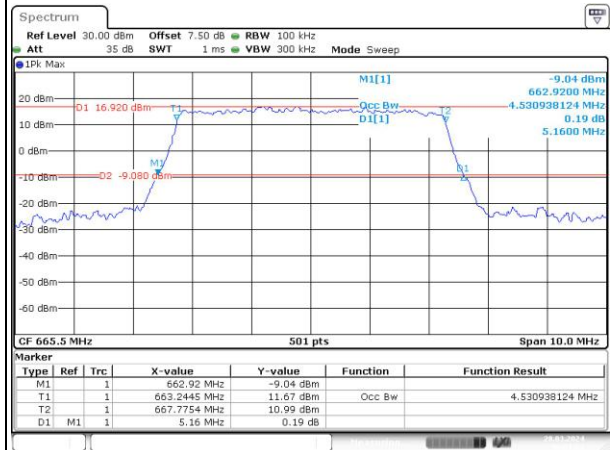
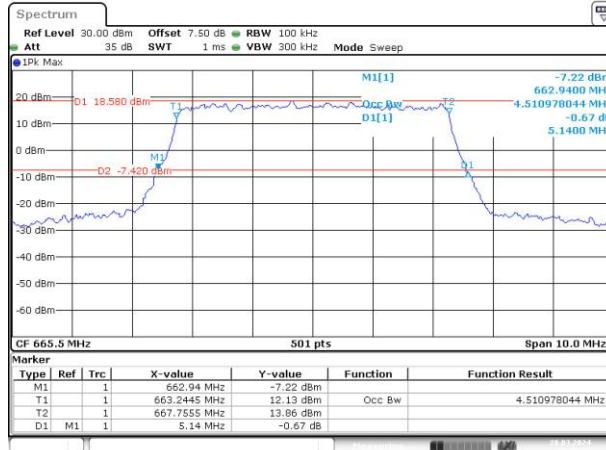
Occupied Bandwidth

Channel

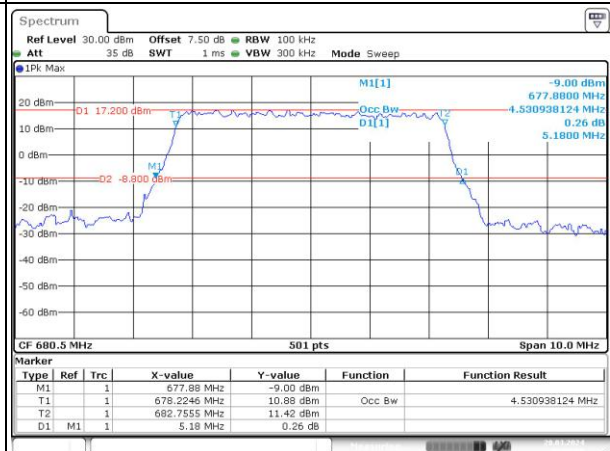
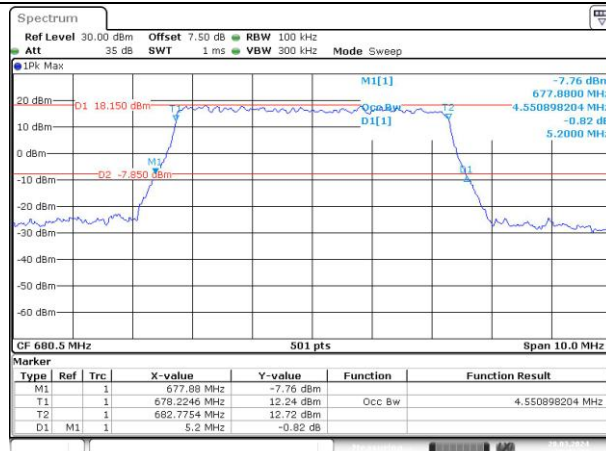
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

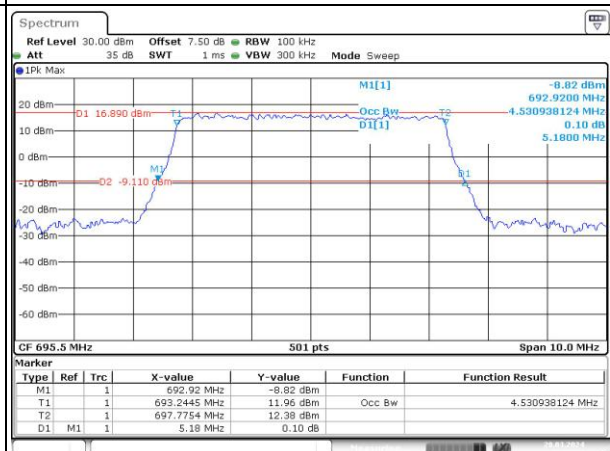
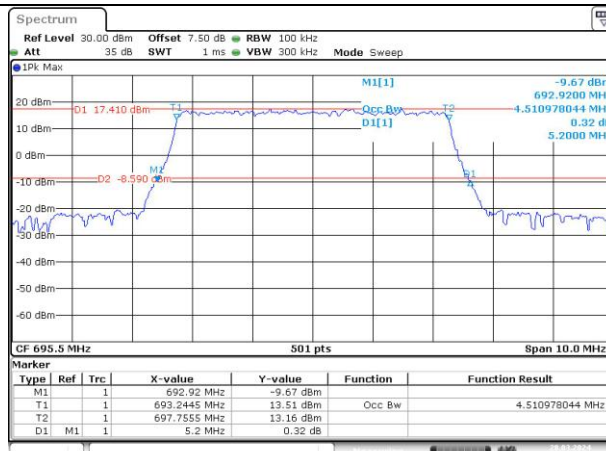
Lowest



Middle



Highest



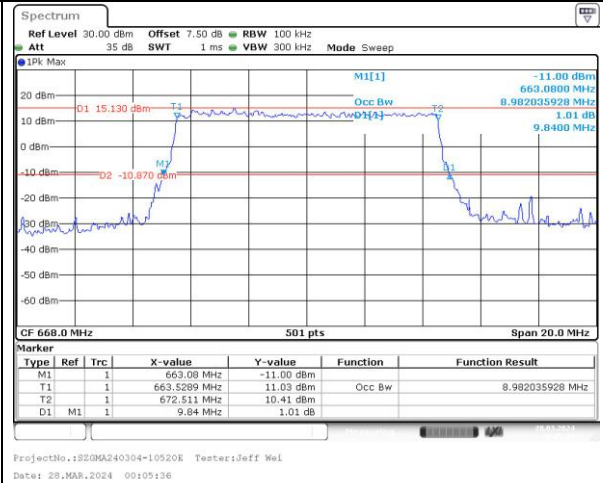
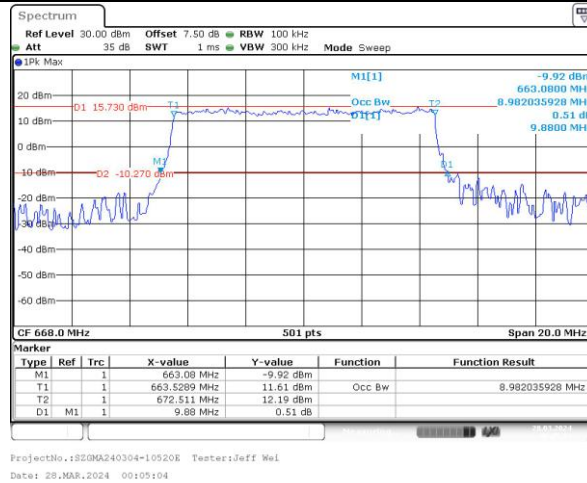
Occupied Bandwidth

Channel

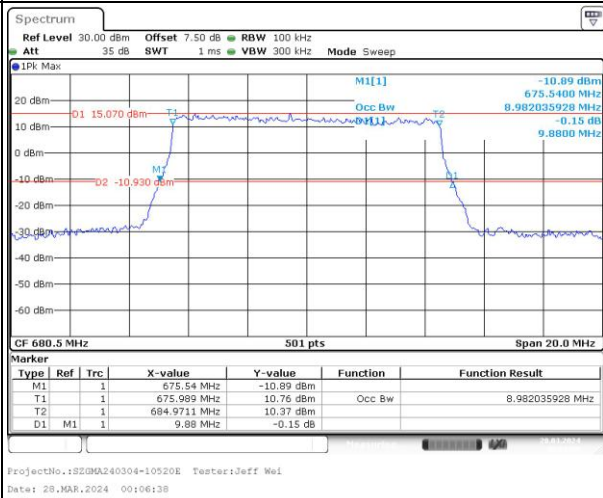
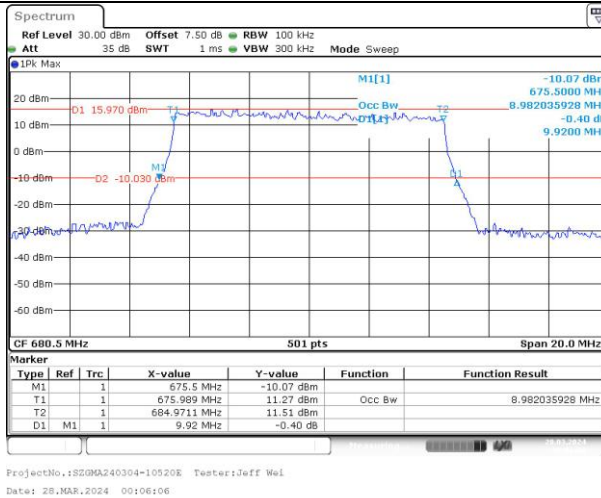
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

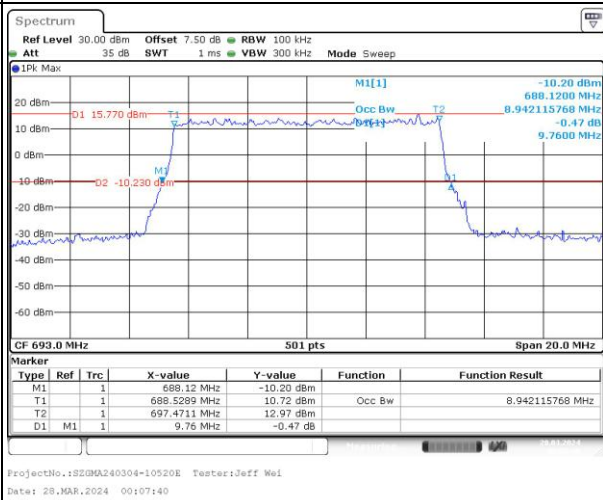
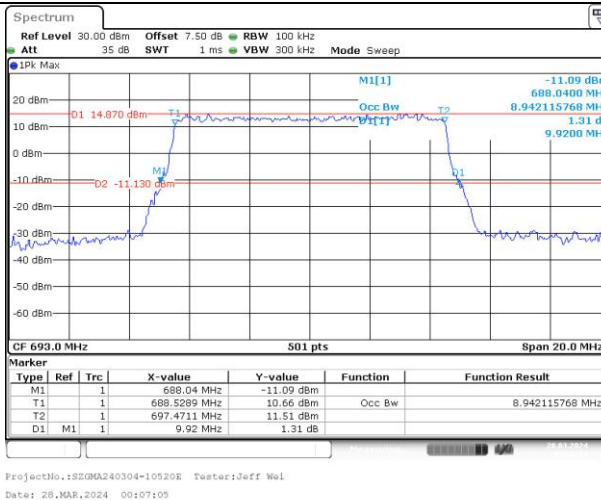
Lowest



Middle



Highest



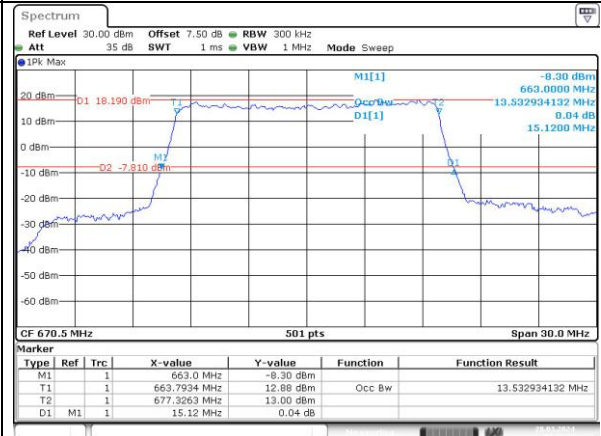
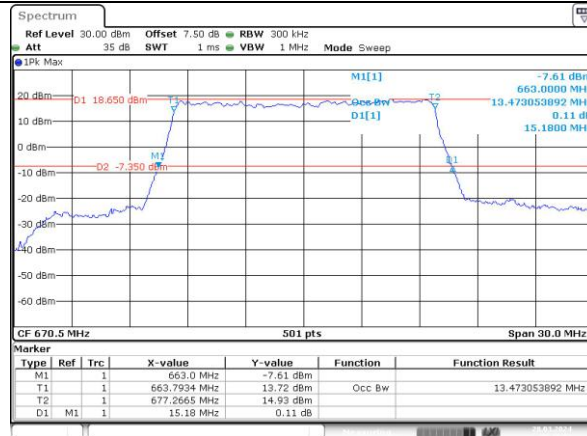
Occupied Bandwidth

Channel

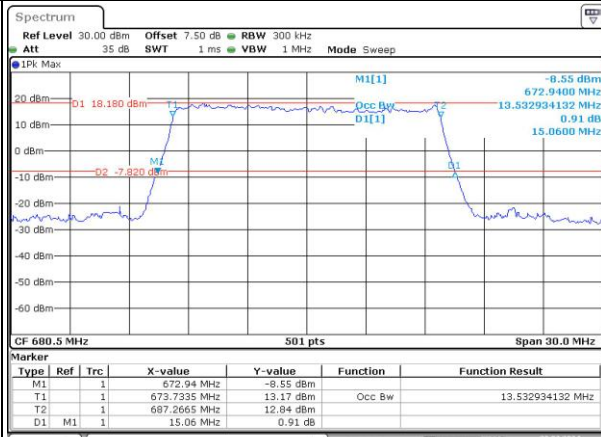
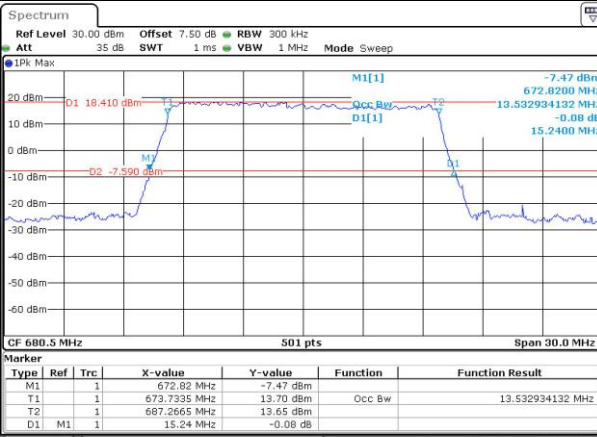
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

Lowest



Middle



Highest

