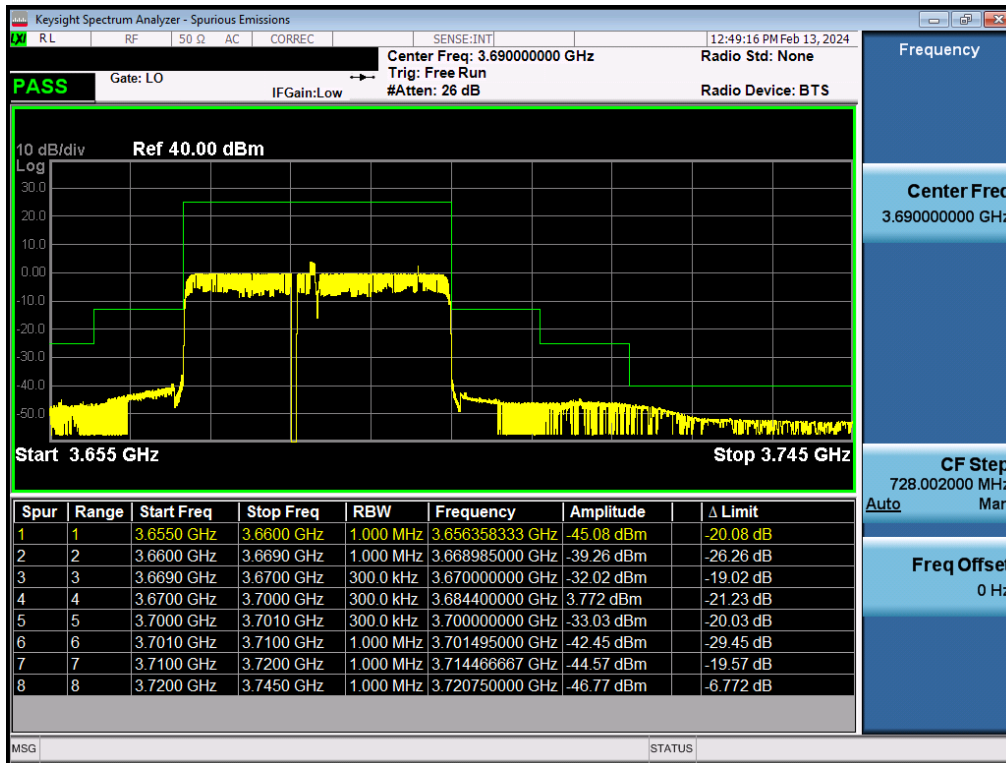
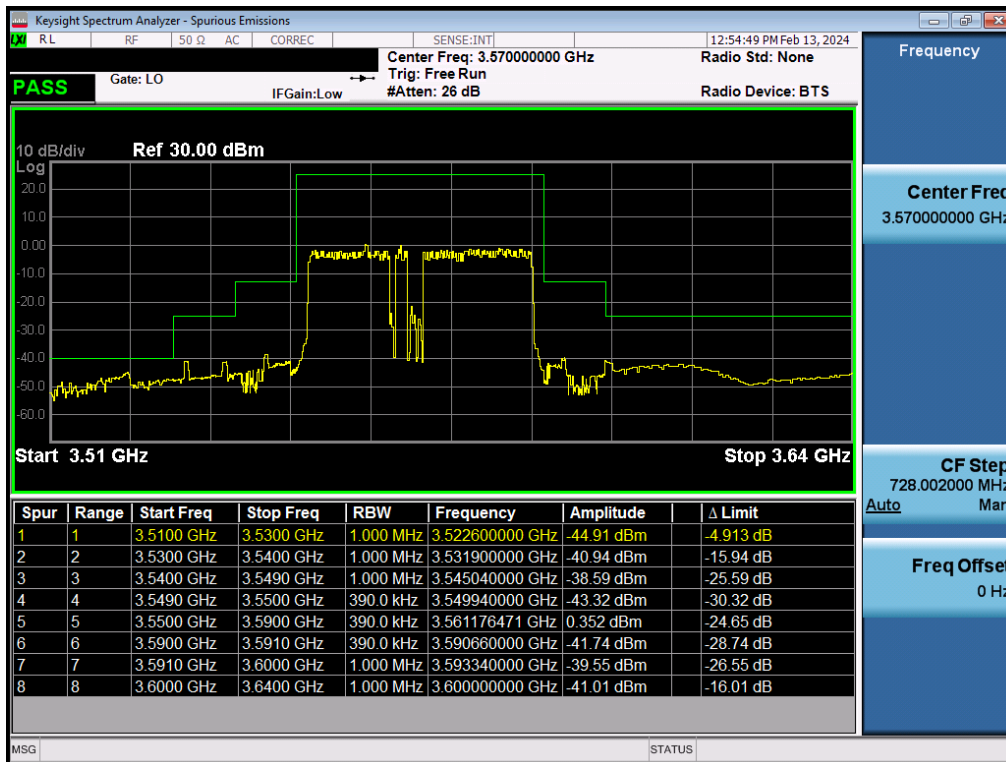


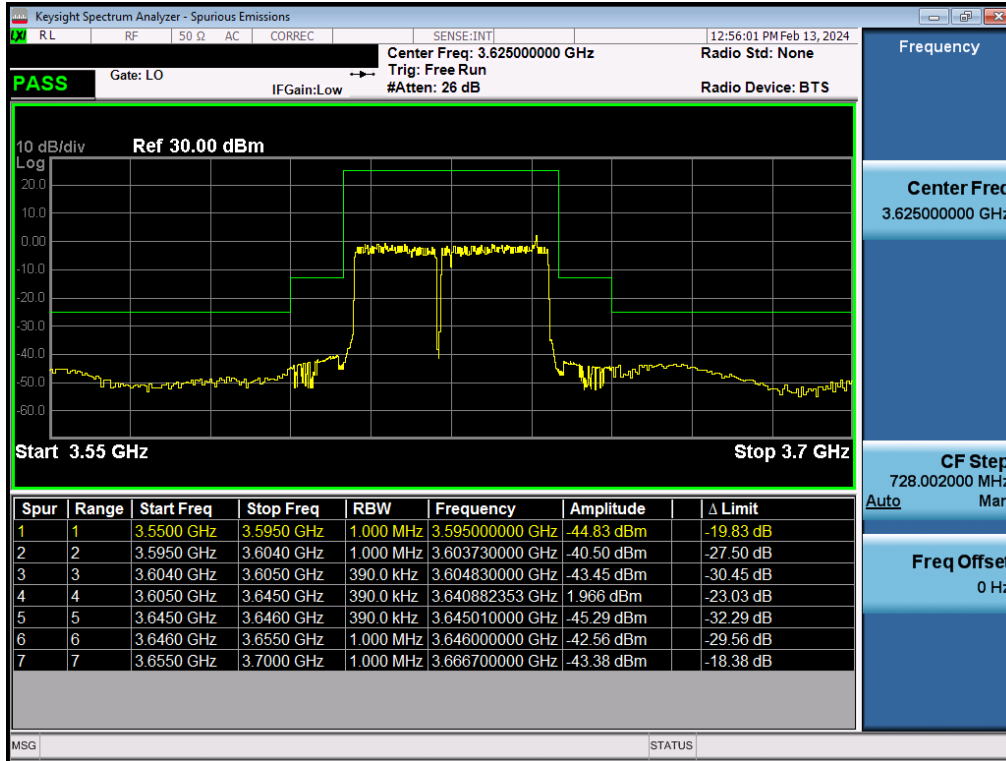


Plot 7.213. Conducted Band Edge Plot (30MHz, QPSK, High Channel, ANT1)

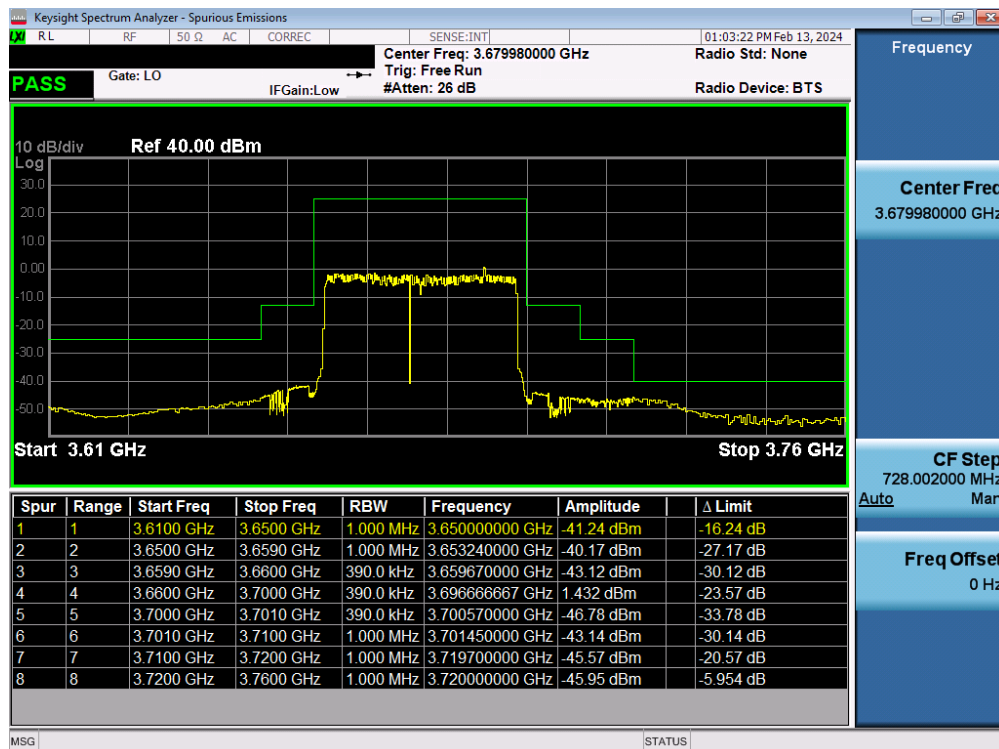


Plot 7.214. Conducted Band Edge Plot (40MHz, QPSK, Low Channel, ANT1)

FCC ID: 2AS22-FLCOCH2	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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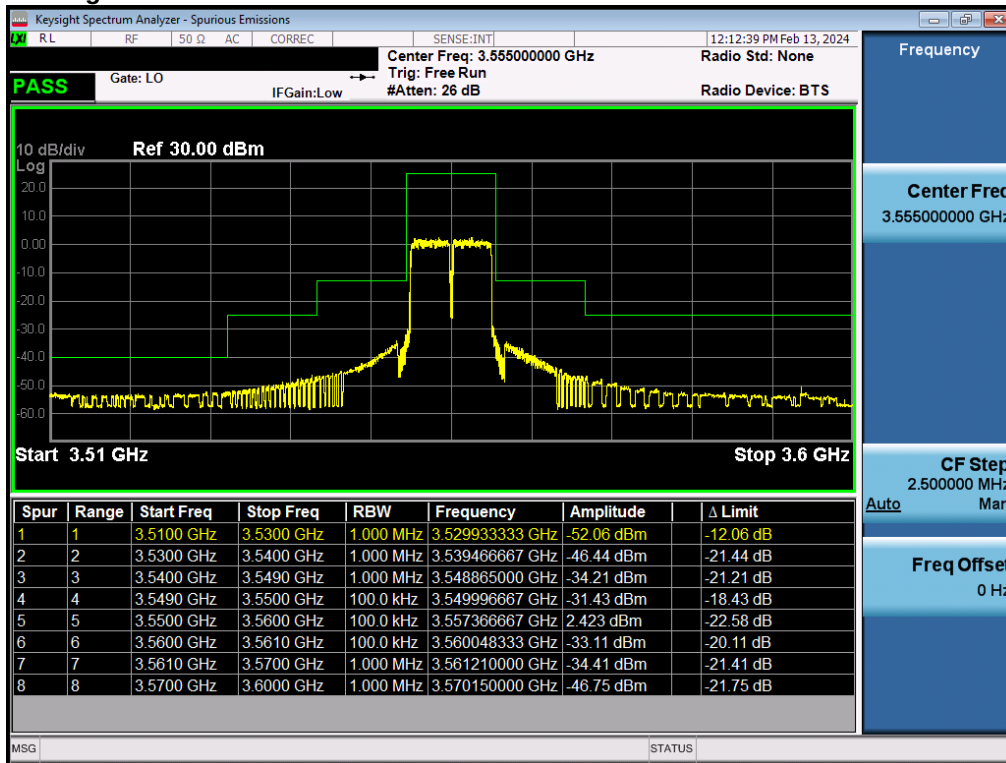
Plot 7.215. Conducted Band Edge Plot (40MHz, QPSK, Mid Channel, ANT1)



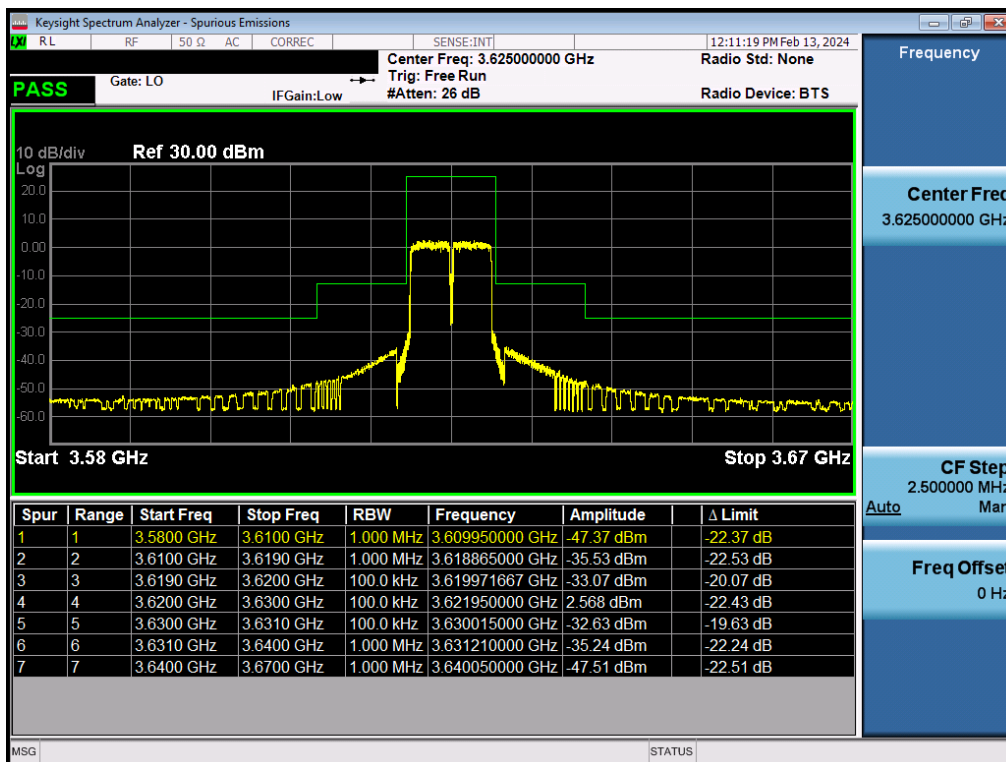
Plot 7.216. Conducted Band Edge Plot (40MHz, QPSK, High Channel, ANT1)

FCC ID: 2AS22-FLCOCH2	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Antenna 2 Band Edge Measurements

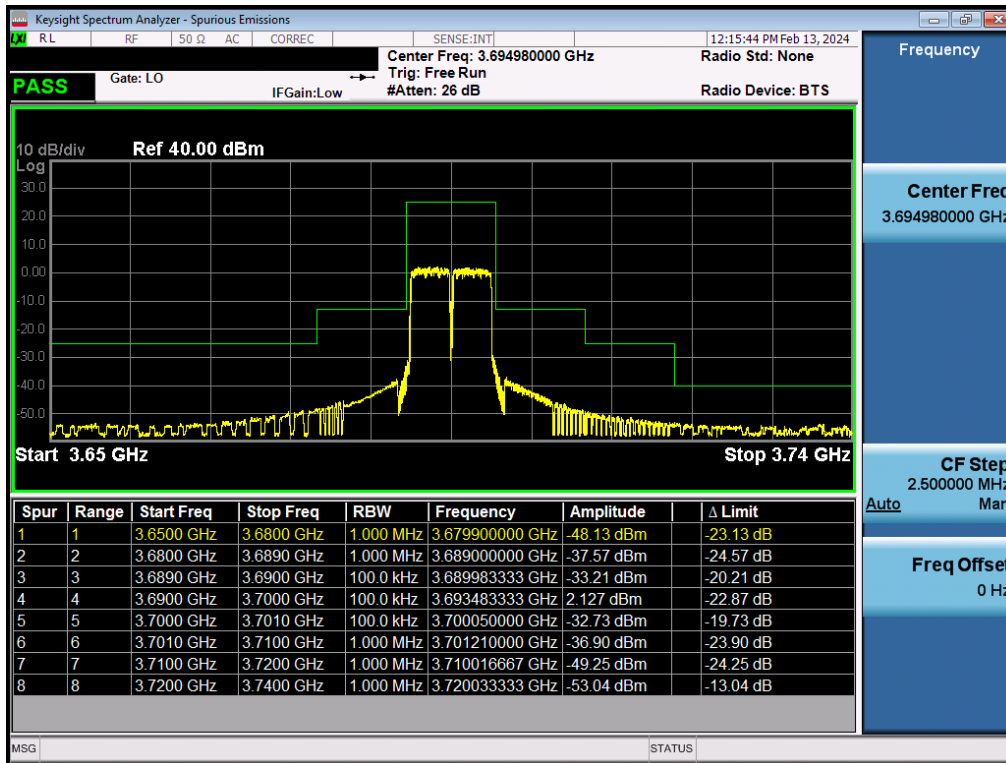


Plot 7.217. Conducted Band Edge Plot (10MHz, QPSK, Low Channel, ANT2)

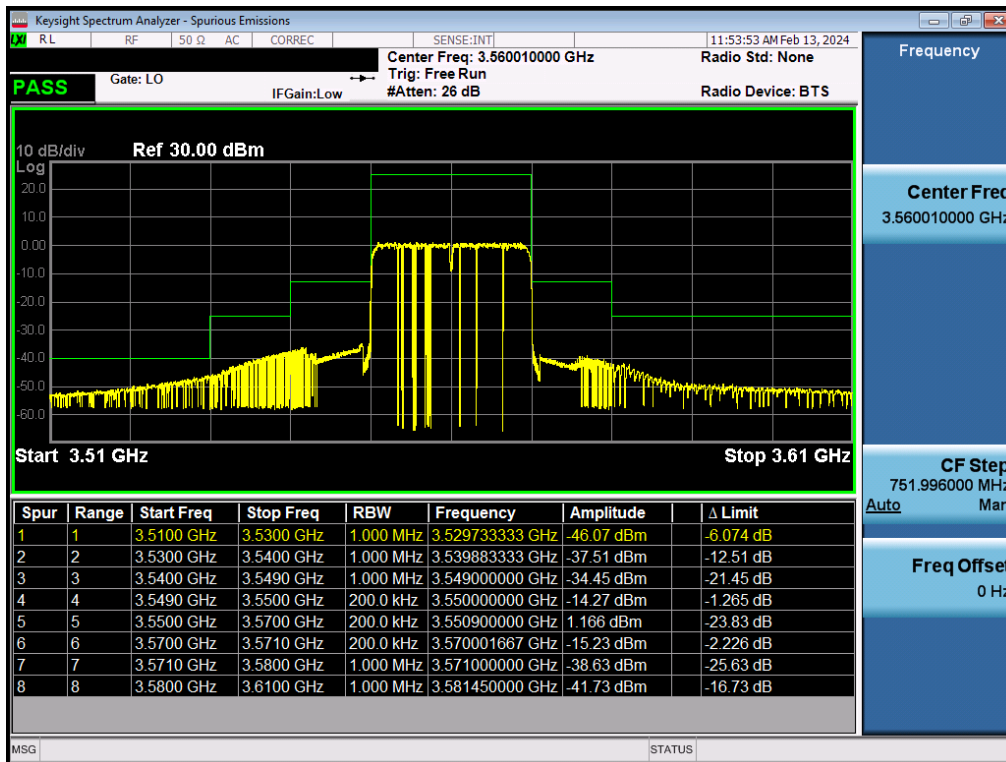


Plot 7.218. Conducted Band Edge Plot (10MHz, QPSK, Mid Channel, ANT2)

FCC ID: 2AS22-FLCOCH2	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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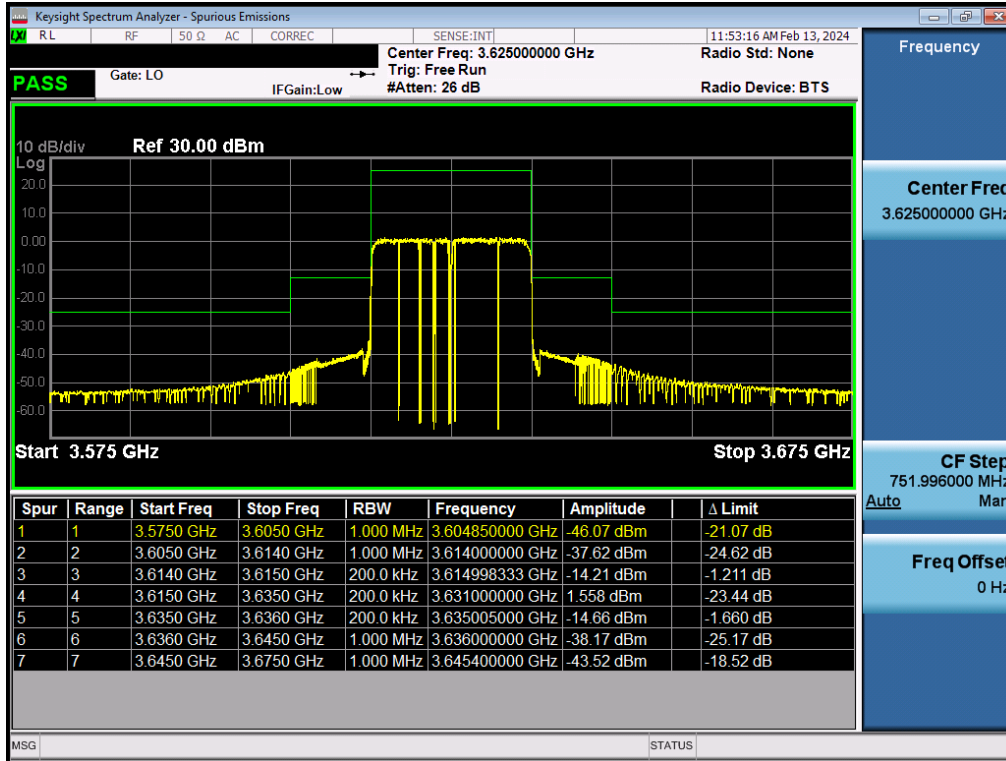


Plot 7.219. Conducted Band Edge Plot (10MHz, QPSK, High Channel, ANT2)

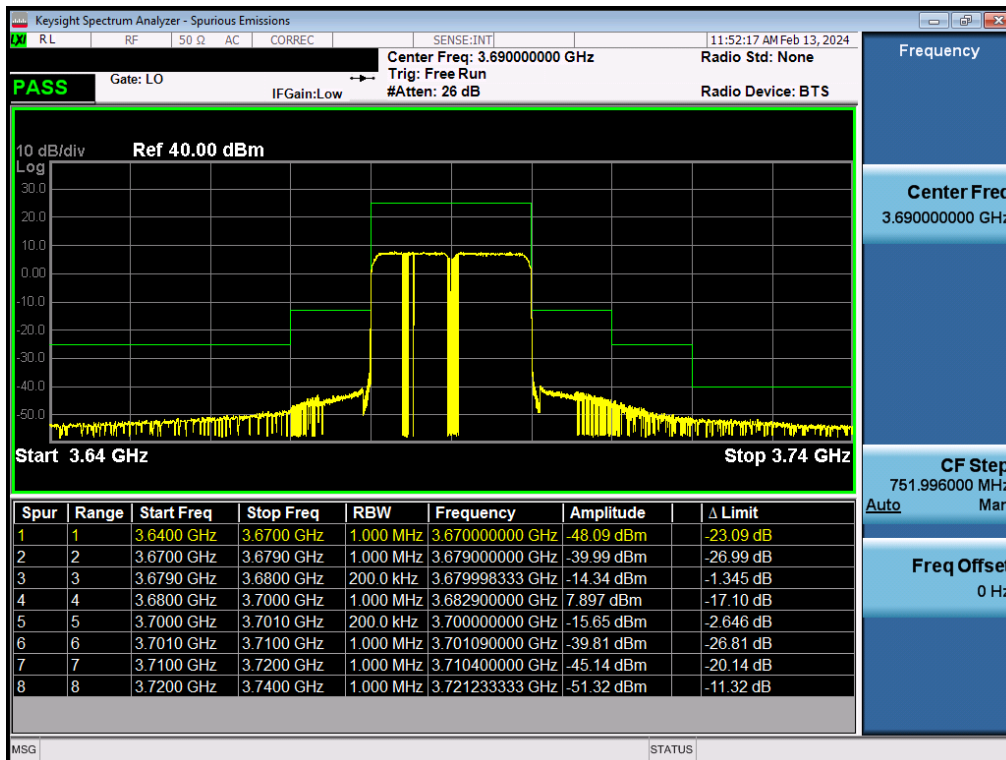


Plot 7.220. Conducted Band Edge Plot (20MHz, QPSK, Low Channel, ANT2)

FCC ID: 2AS22-FLCOCH2	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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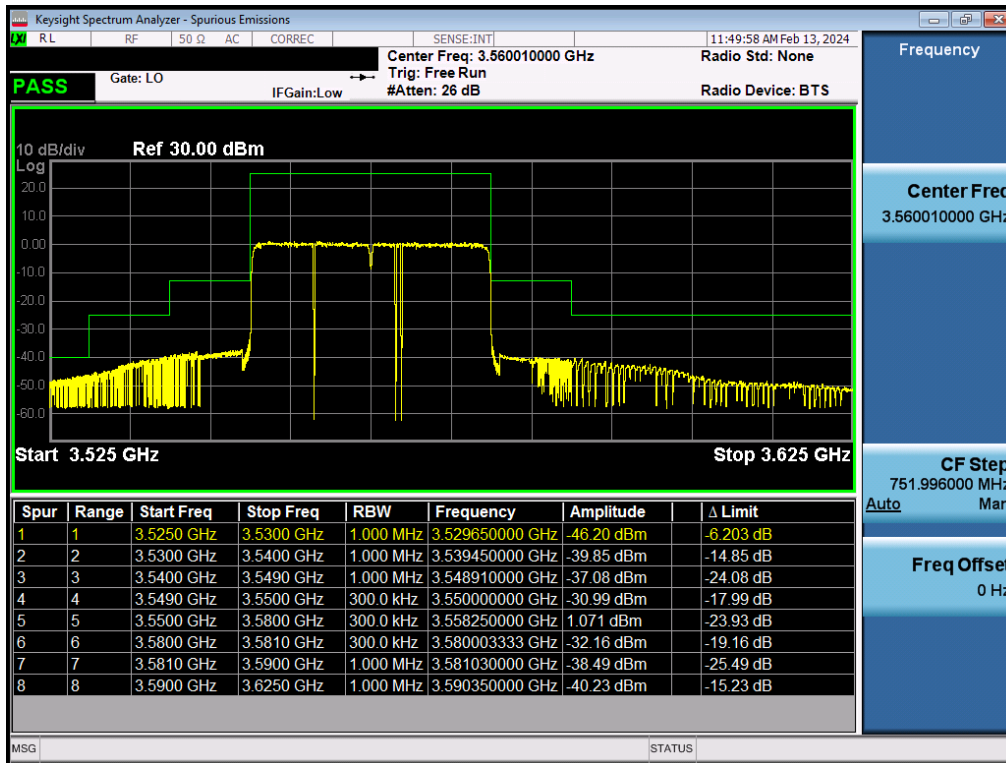


Plot 7.221. Conducted Band Edge Plot (20MHz, QPSK, Mid Channel, ANT2)

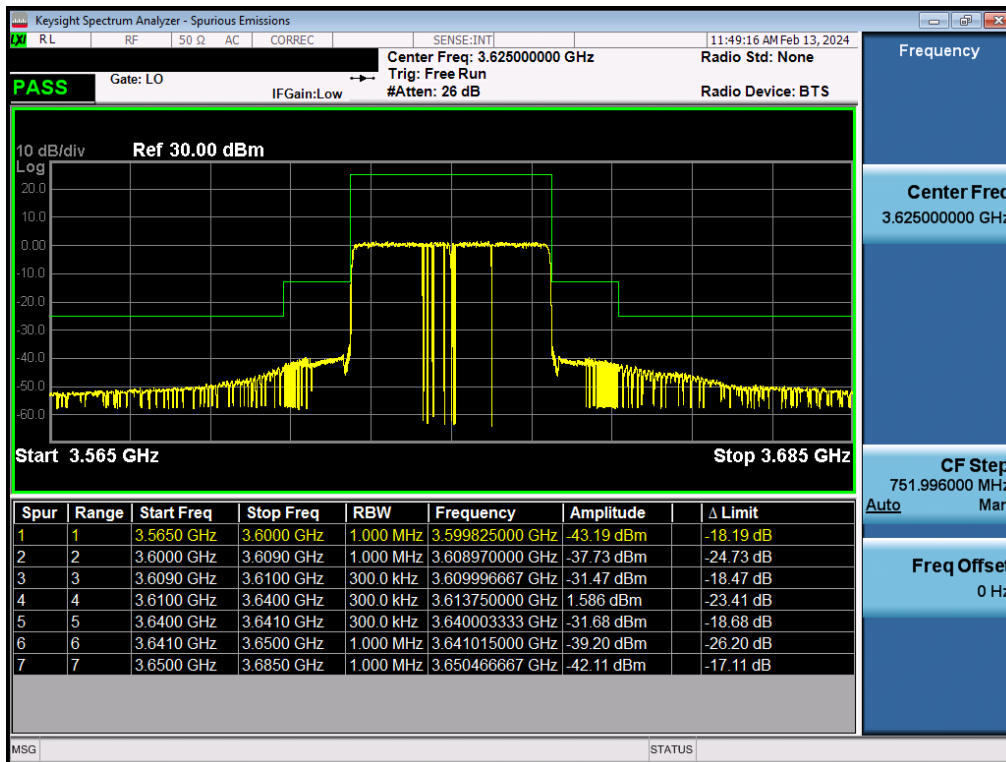


Plot 7.222. Conducted Band Edge Plot (20MHz, QPSK, High Channel, ANT2)

FCC ID: 2AS22-FLCOCH2	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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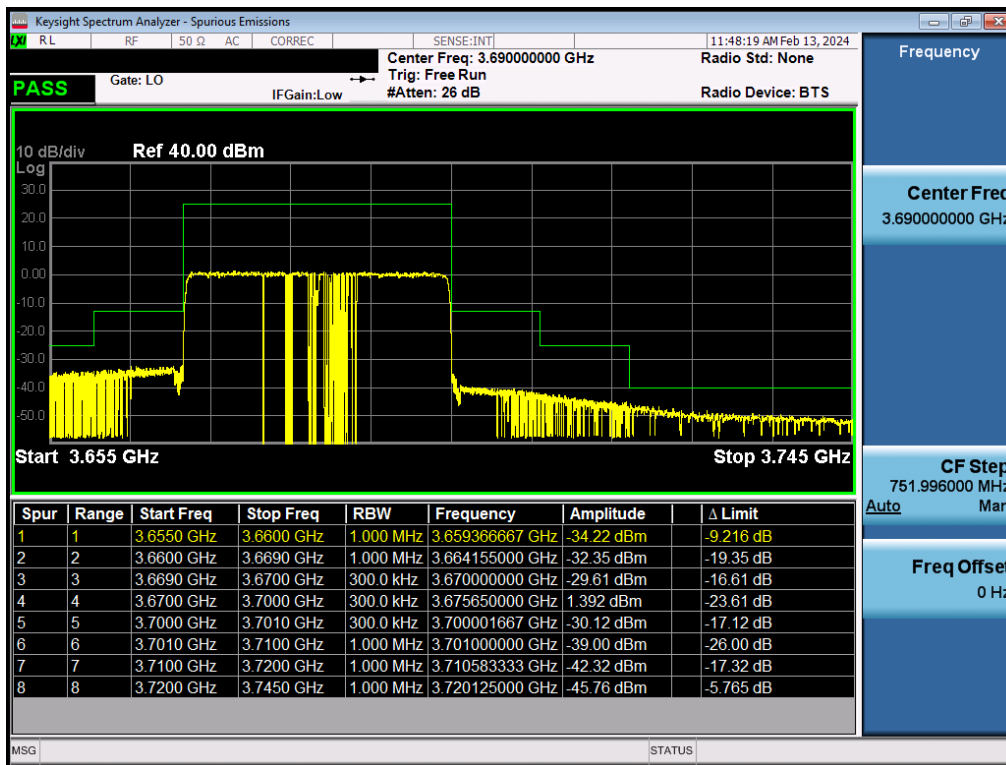


Plot 7.223. Conducted Band Edge Plot (30MHz, QPSK, Low Channel, ANT2)

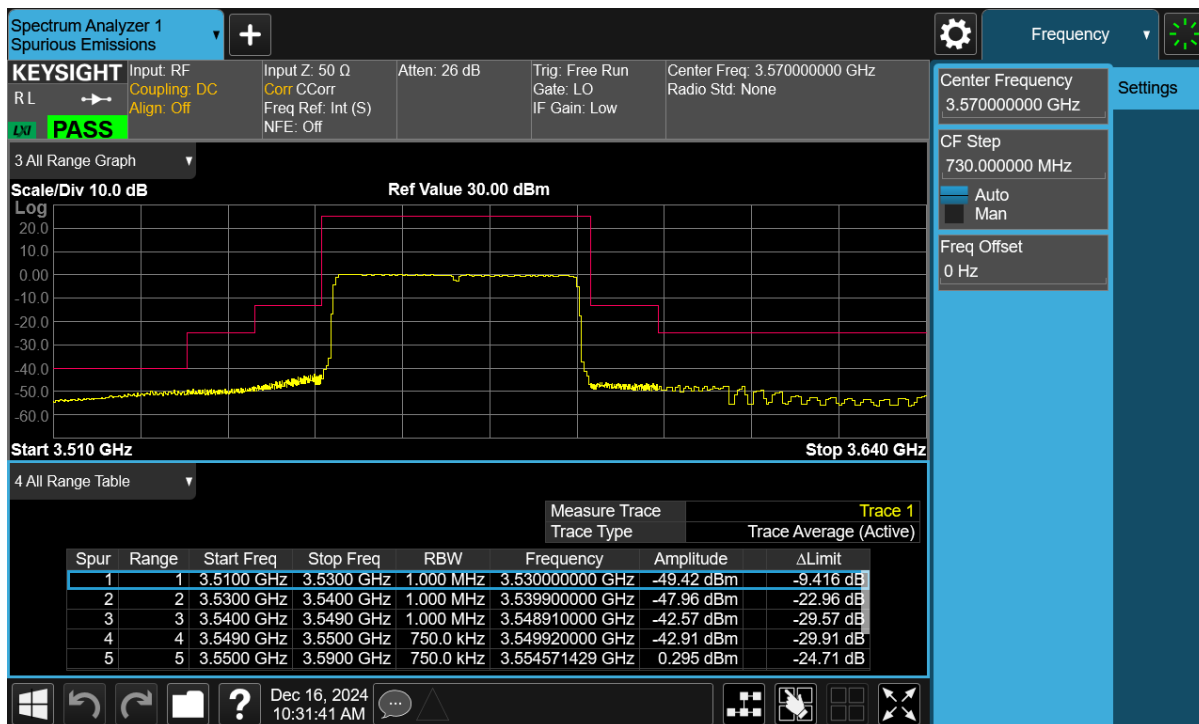


Plot 7.224. Conducted Band Edge Plot (30MHz, QPSK, Mid Channel, ANT2)

FCC ID: 2AS22-FLCOCH2	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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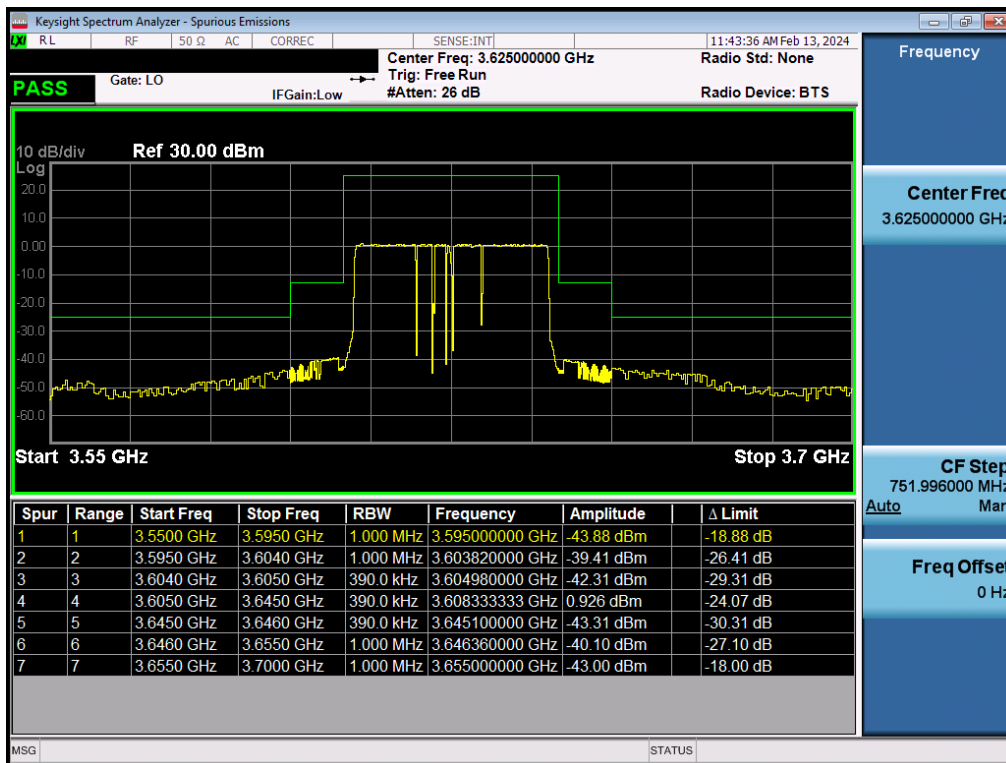


Plot 7.225. Conducted Band Edge Plot (30MHz, QPSK, High Channel, ANT2)

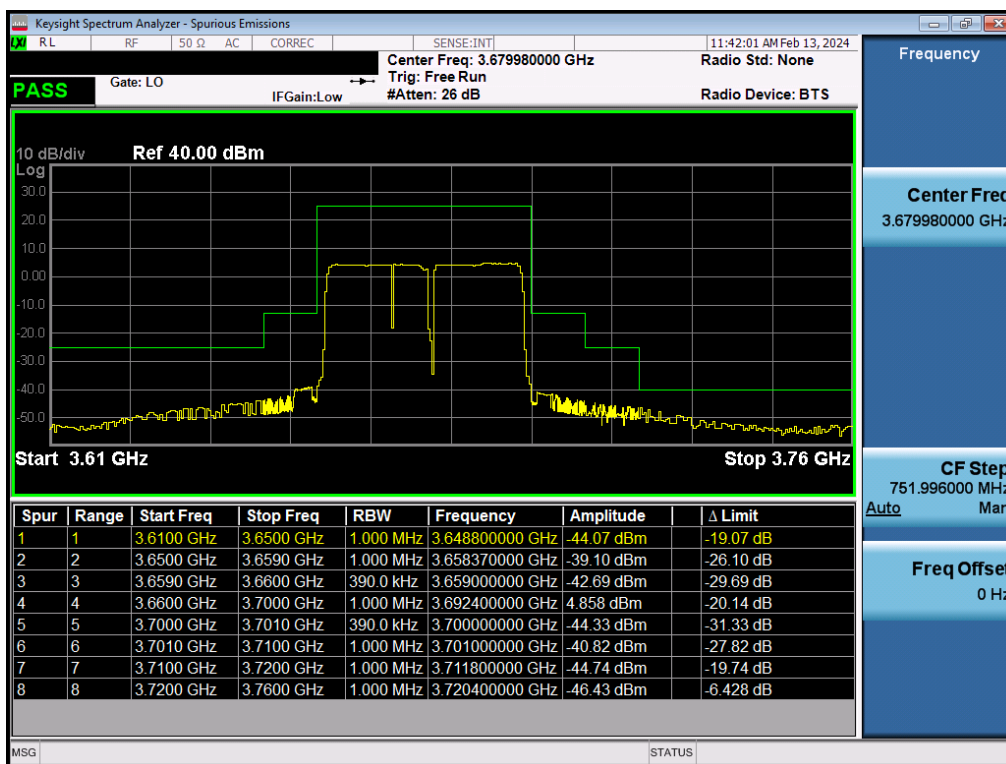


Plot 7.226. Conducted Band Edge Plot (40MHz, QPSK, Low Channel, ANT2)

FCC ID: 2AS22-FLCOCH2	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7.227. Conducted Band Edge Plot (40MHz, QPSK, Mid Channel, ANT2)



Plot 7.228. Conducted Band Edge Plot (40MHz, QPSK, High Channel, ANT2)

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7.9 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into a 50 ohm load. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 1MHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Max Hold (In cases where the level is within 2dB of the limit, the final measurement is taken using triggering/gating and trace averaging.)
7. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

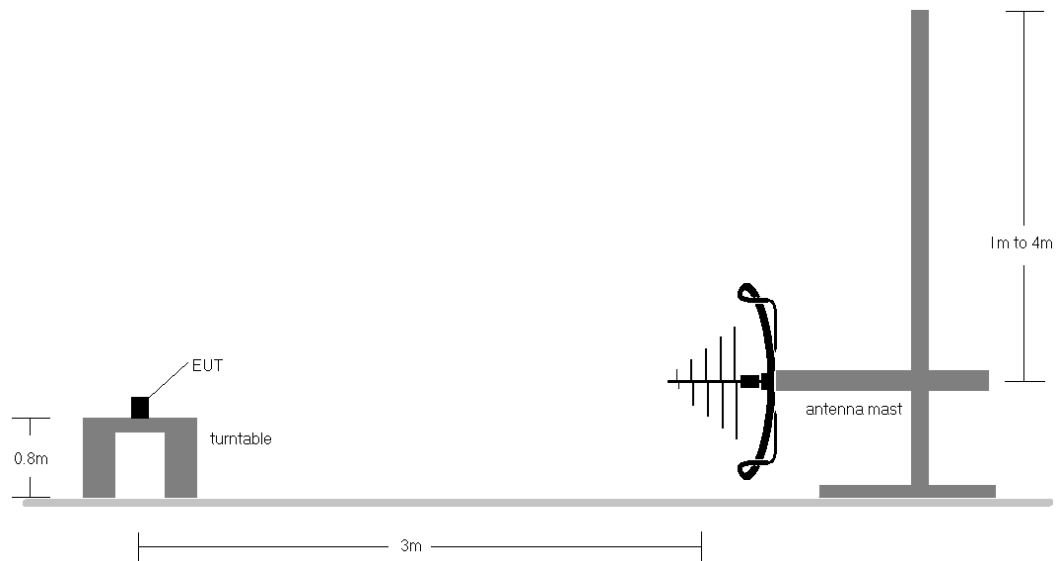


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

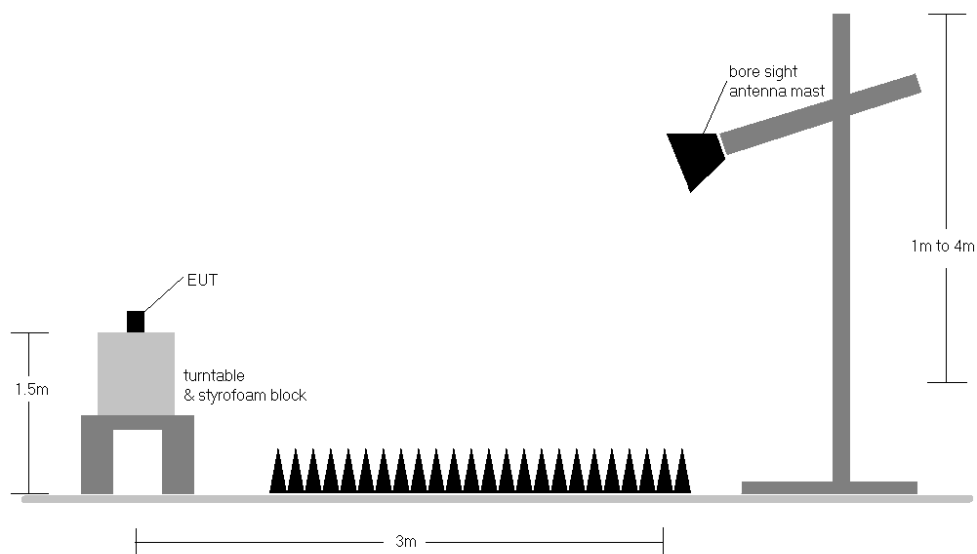


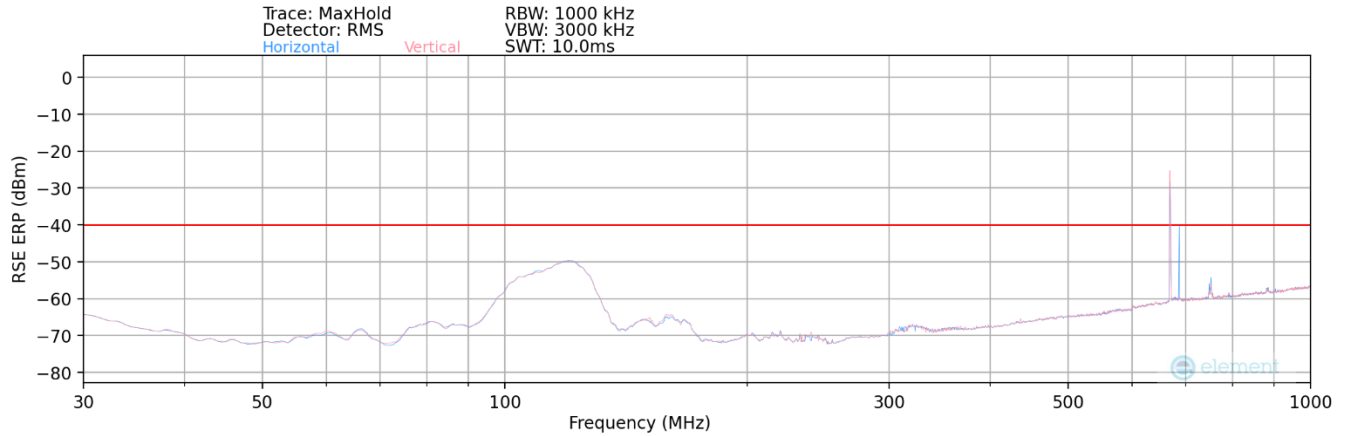
Figure 7-9. Test Instrument & Measurement Setup >1 GHz

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Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The worst case emissions are reported with the EUT modulations and channel bandwidth configurations shown in the tables below.
- 3) The spectrum is measured from 30MHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 4) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 5) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

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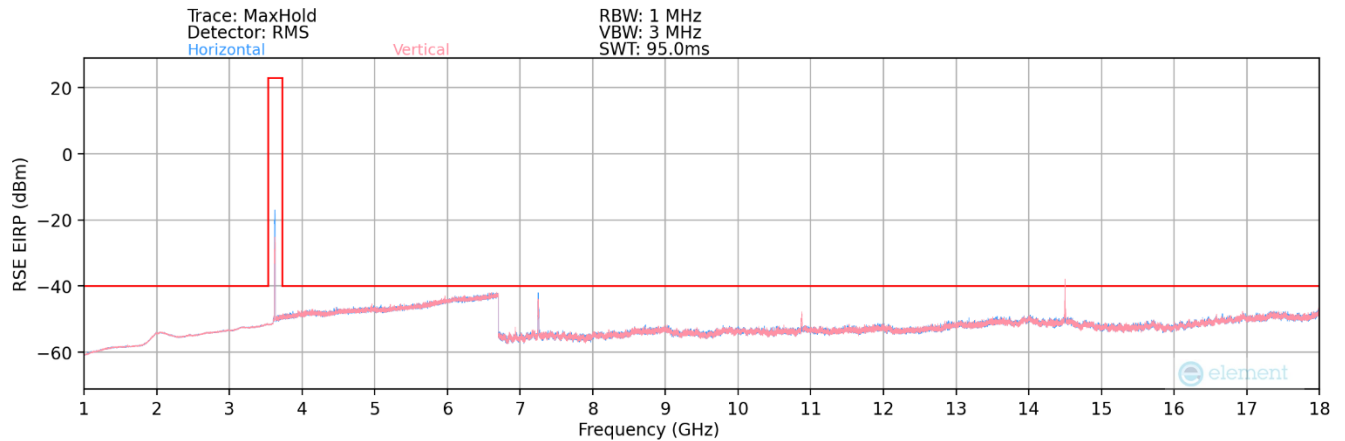


Plot 7.229. Radiated Spurious Plot 30MHz-1GHz

Bandwidth (MHz):	10
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 25
Detector / Trace Mode:	RMS / Max Hold
RBW / VBW:	1MHz / 3MHz

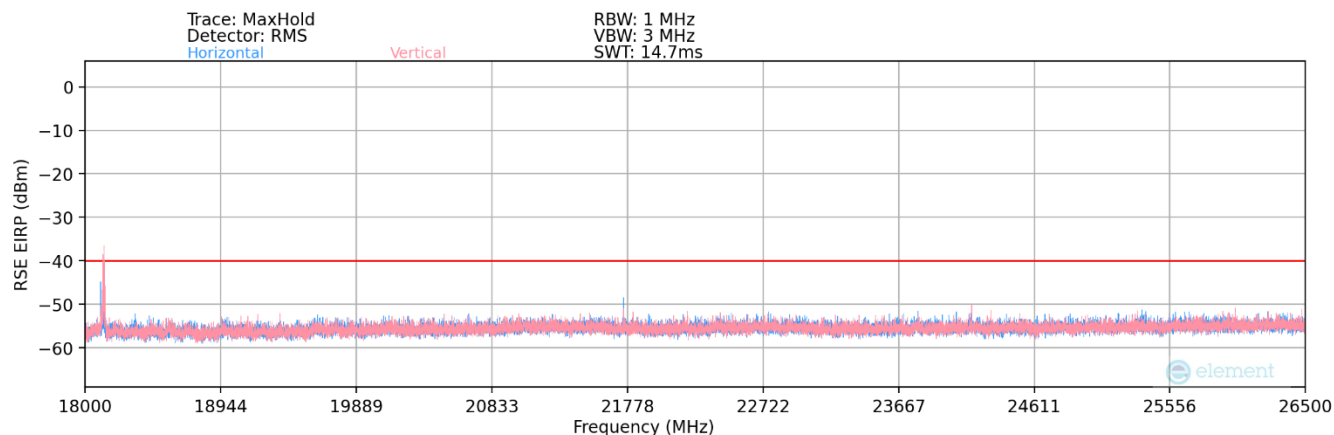
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
124.00	H	0	0	-81.98	20.54	45.56	-51.85	-40.00	-11.85
668.50	V	221	310	-78.61	28.52	56.91	-40.50	-40.00	-0.50
687.00	H	0	0	-81.23	28.76	54.53	-42.87	-40.00	-2.87
752.00	H	0	0	-86.61	29.16	49.55	-47.85	-40.00	-7.85

Table 7-9. Radiated Spurious Data 30MHz-1GHz - Mid Channel

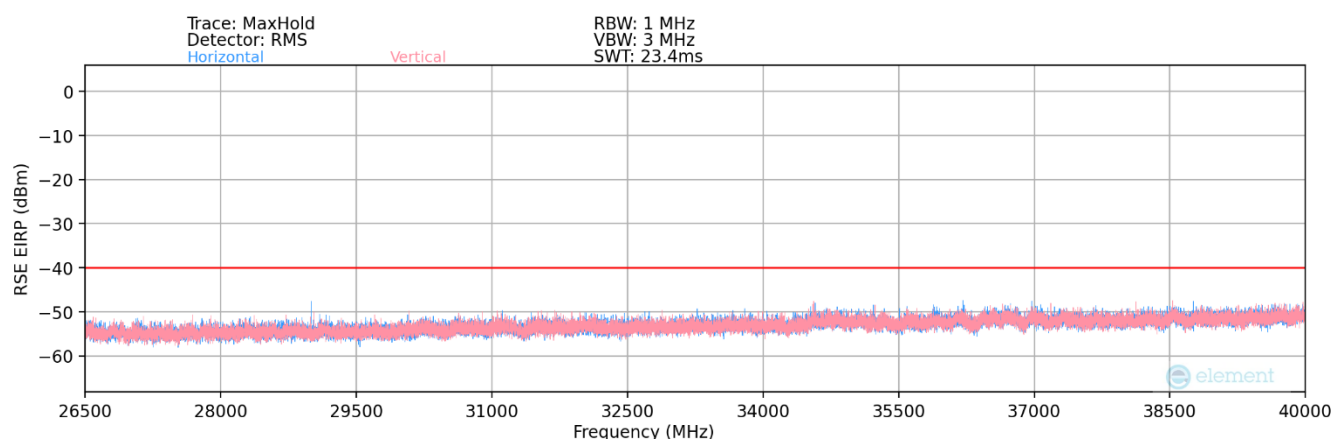


Plot 7.230. Radiated Spurious Plot 1-18GHz – Mid Channel

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Plot 7.231. Radiated Spurious Plot 18-26.5GHz



Plot 7.232. Radiated Spurious Plot 26.5-40GHz

Bandwidth (MHz):	10
Frequency (MHz):	3555.0
Modulation Signal:	QPSK
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7110.00	V	329	35	-70.57	4.66	41.09	-54.17	-40.00	-14.17
10665.00	V	310	31	-77.95	8.56	37.61	-57.65	-40.00	-17.65
14220.00	V	296	6	-63.37	11.12	54.75	-40.51	-40.00	-0.51
17775.00	V	-	-	-81.49	10.61	36.12	-59.13	-40.00	-19.13
21330.00	H	-	12	-52.32	3.57	58.25	-46.55	-40.00	-6.55
24885.00	H	-	-	-57.83	3.72	52.89	-51.91	-40.00	-11.91
28440.00	H	-	-	-57.67	4.76	54.09	-50.71	-40.00	-10.71
31995.00	H	-	-	-57.44	7.03	56.59	-48.21	-40.00	-8.21

Table 7-10. Radiated Spurious Data – Low Channel

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Bandwidth (MHz):	10
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7250.00	V	329	35	-62.89	5.09	49.20	-46.06	-40.00	-6.06
10875.00	V	204	326	-75.68	8.60	39.92	-55.34	-40.00	-15.34
14500.00	V	252	314	-62.97	10.60	54.63	-40.63	-40.00	-0.63
18125.00	V	150	282	-45.69	1.16	62.47	-42.33	-40.00	-2.33
21750.00	H	150	262	-50.36	3.49	60.13	-44.67	-40.00	-4.67
25375.00	H	-	-	-53.88	3.84	56.97	-47.83	-40.00	-7.83
29000.00	H	150	57	-52.22	4.94	59.72	-45.08	-40.00	-5.08
32625.00	H	-	-	-54.07	6.28	59.21	-45.59	-40.00	-5.59

Table 7-11. Radiated Spurious Data – Mid Channel

Bandwidth (MHz):	10
Frequency (MHz):	3695.0
Modulation Signal:	QPSK
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7390.00	V	308	283	-69.05	4.99	42.94	-52.31	-40.00	-12.31
11085.00	V	143	329	-75.45	8.50	40.05	-55.21	-40.00	-15.21
14780.00	V	197	31	-66.36	9.50	50.14	-45.12	-40.00	-5.12
18475.00	V	150	357	-45.78	1.30	62.52	-42.28	-40.00	-2.28
22170.00	H	150	258	-50.76	3.46	59.70	-45.10	-40.00	-5.10
25865.00	H	-	-	-55.31	4.09	55.78	-49.02	-40.00	-9.02
29560.00	H	150	60	-56.01	5.23	56.22	-48.58	-40.00	-8.58
33255.00	H	-	-	-56.78	6.99	57.21	-47.59	-40.00	-7.59

Table 7-12. Radiated Spurious Data – High Channel

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7.10 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 96, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

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Band 48

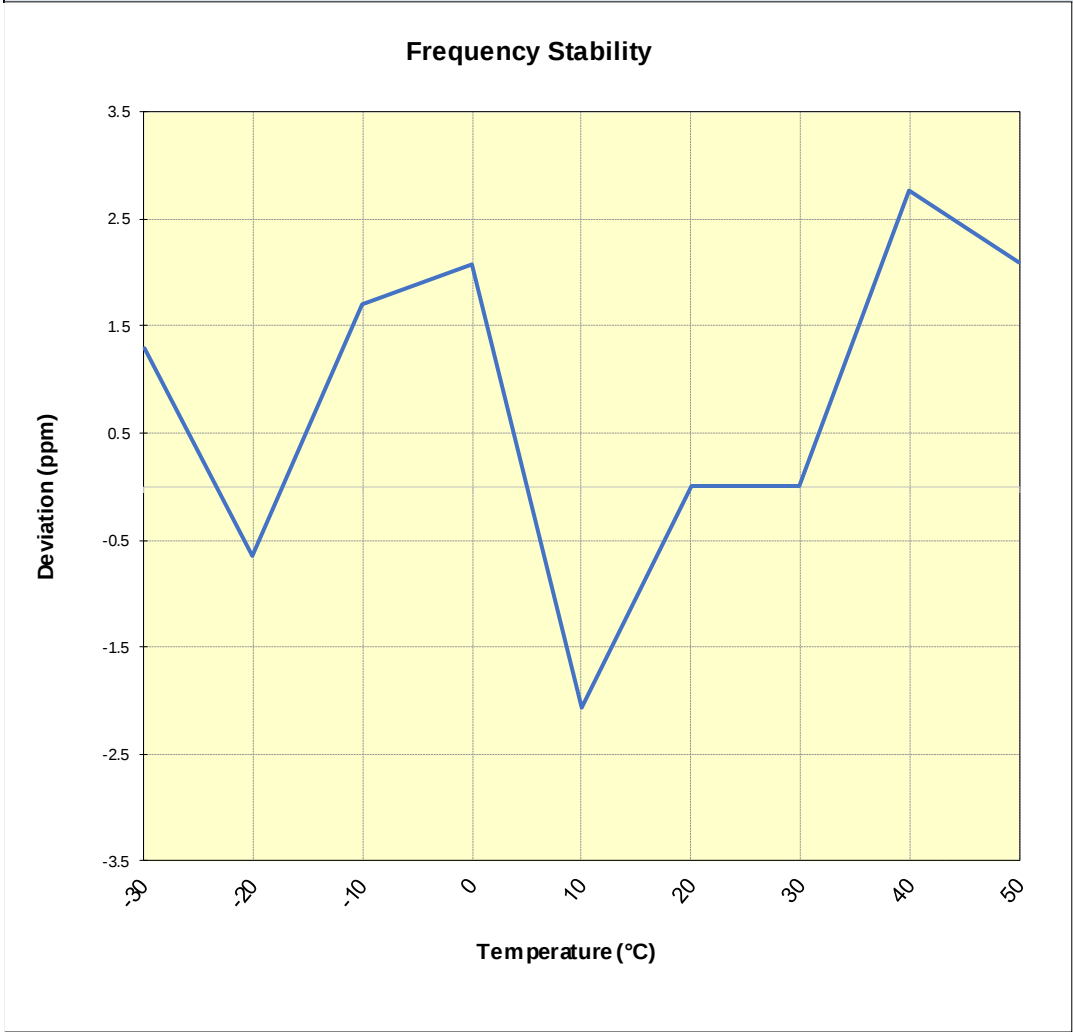
Operating Frequency (Hz):	3,625,000,000
Ref. Voltage (VAC):	120.00

Voltage (%)	Power (VAC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	120.00	- 30	3,624,997,165	4,664	0.0001287
		- 20	3,624,990,156	-2,345	-0.0000647
		- 10	3,624,998,656	6,155	0.0001698
		0	3,625,000,007	7,506	0.0002071
		+ 10	3,624,985,000	-7,501	-0.0002069
		+ 20 (Ref)	3,624,992,501	0	0.0000000
		+ 30	3,624,992,541	40	0.0000011
		+ 40	3,625,002,567	10,066	0.0002777
		+ 50	3,625,000,081	7,580	0.0002091
85 %	102.00	+ 20	3,625,001,562	9,061	0.0002500
115 %	138.00	+ 20	3,624,998,215	5,714	0.0001576

Table 7-13. Frequency Stability Data

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Band 48



Plot 7.233. Frequency Stability Chart

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Skylark Wireless, LLC CBRS CPE FCC ID: 2AS22-FLCOCH2** complies with all of the Category B CBSD requirements of Part 96 of the FCC Rules for Band 48 operation only.

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