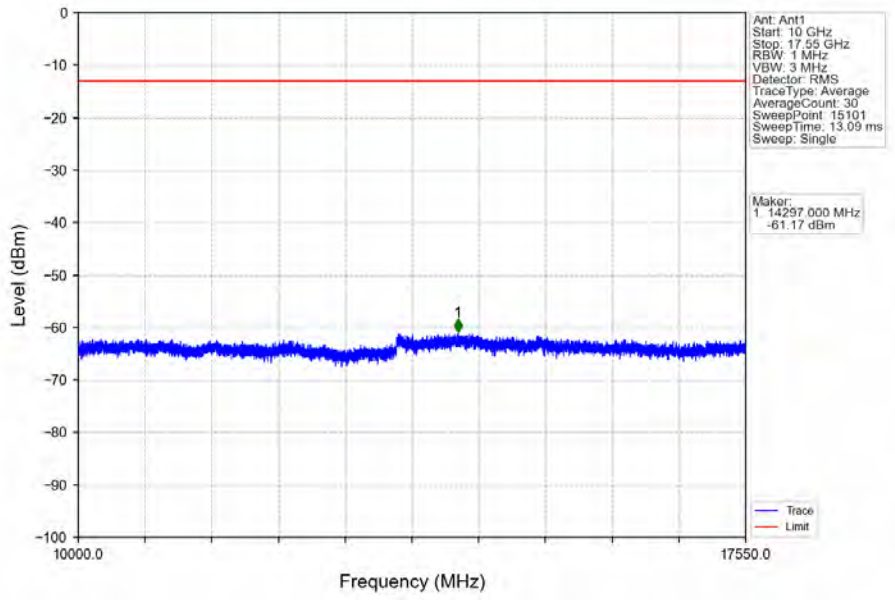

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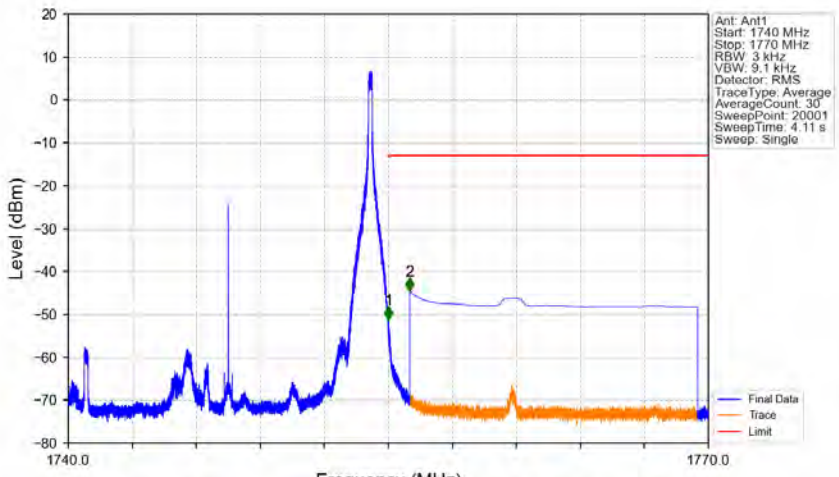
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_74_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1740	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.003	-51.19	-13	Pass
1756	1770	1	CHP	2	1756.001	-44.47	-13	Pass

Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV

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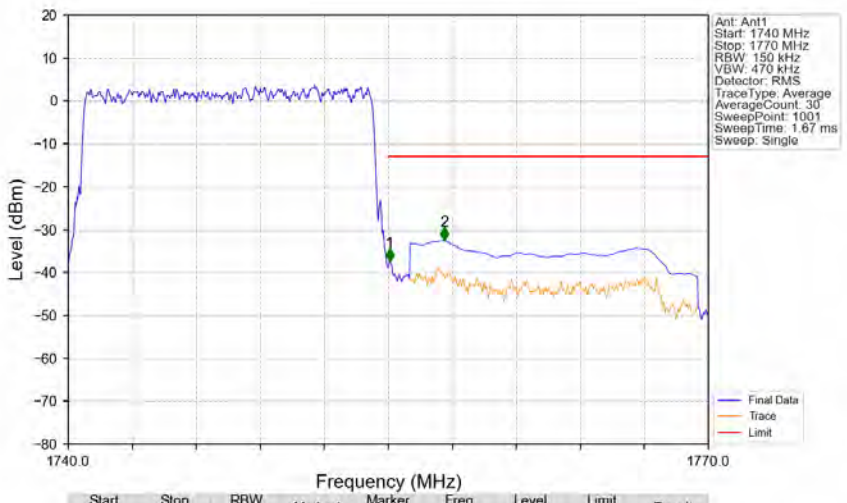

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1740	1755	0.15	/	/	/	/	/	/
1755	1756	0.15	/	1	1755.060	-37.45	-13	Pass
1756	1770	1	CHP	2	1757.640	-32.58	-13	Pass

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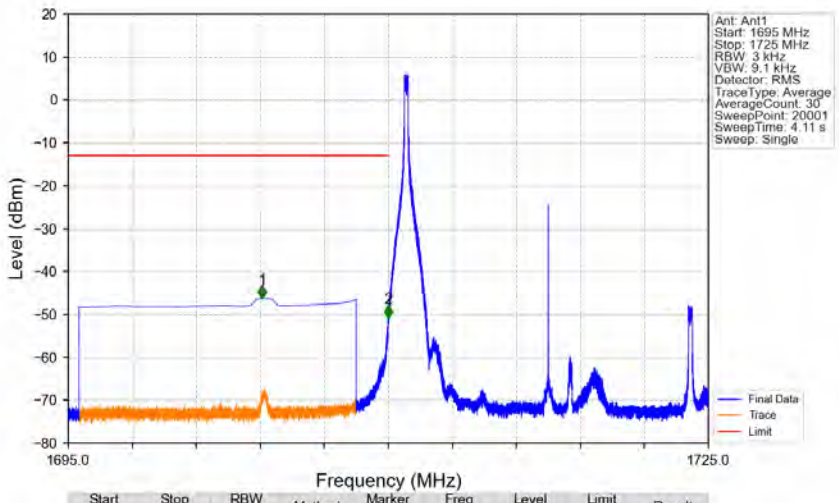
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1704.090	-46.34	-13	Pass
1709	1710	0.003	/	2	1709.993	-50.83	-13	Pass
1710	1725	0.003	/	/	/	/	/	/

Band4_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV

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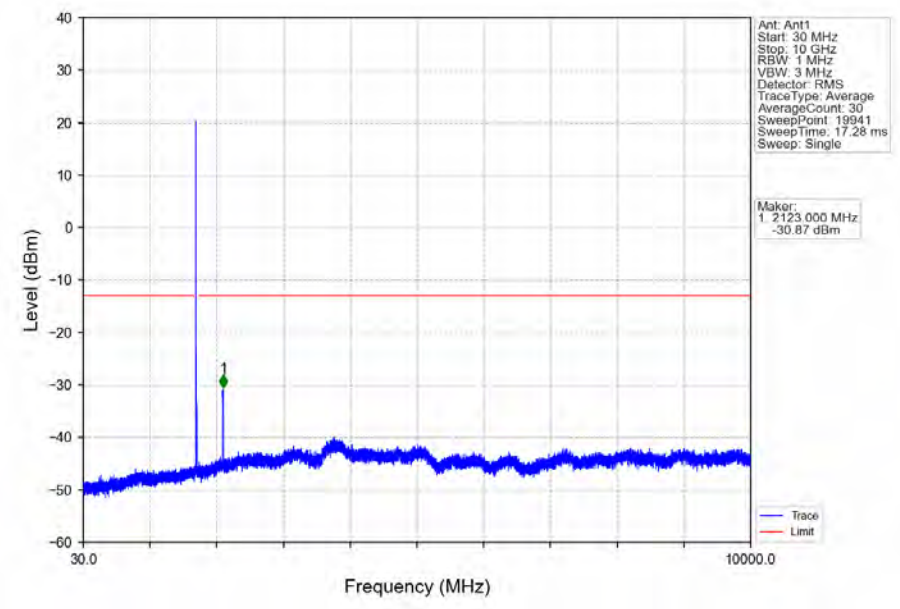

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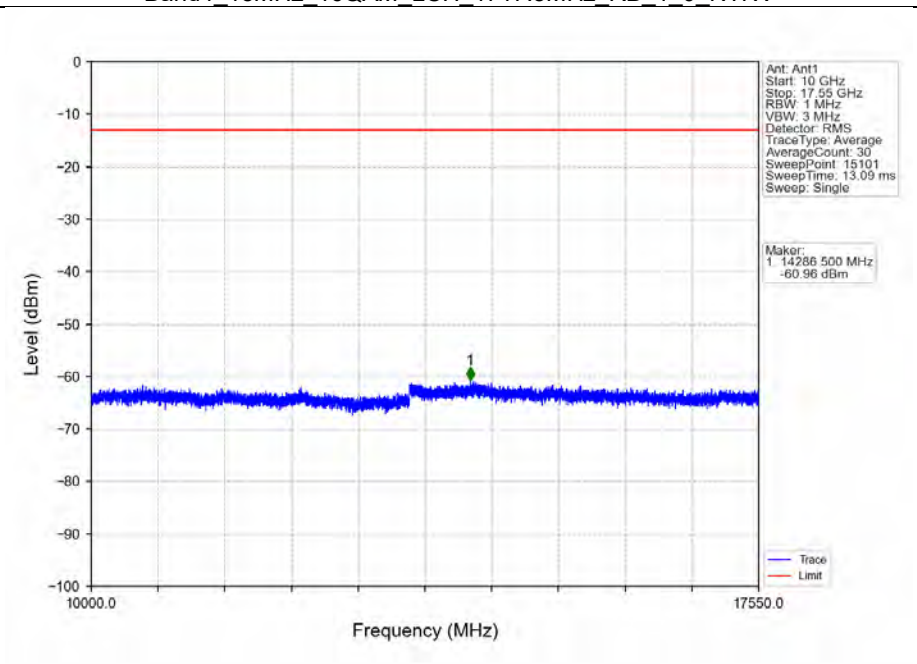
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_1_0_NTNV



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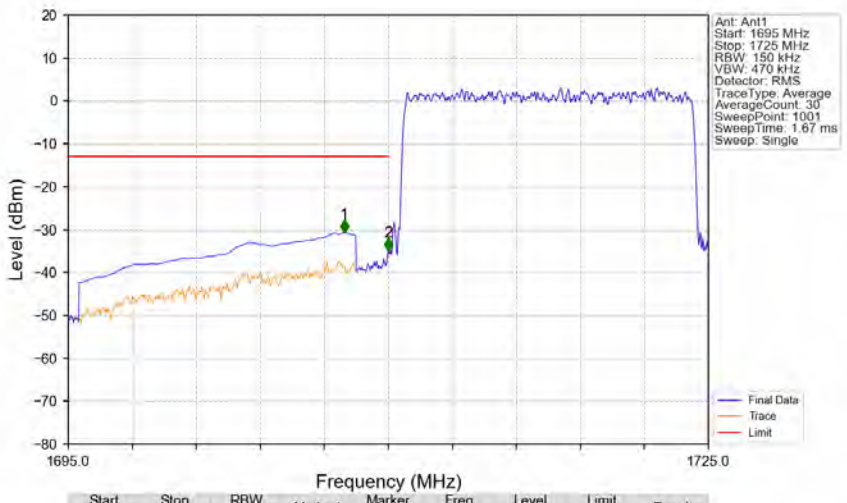

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1707.930	-30.77	-13	Pass
1709	1710	0.15	/	2	1710.000	-35.08	-13	Pass
1710	1725	0.15	/	/	/	/	/	/

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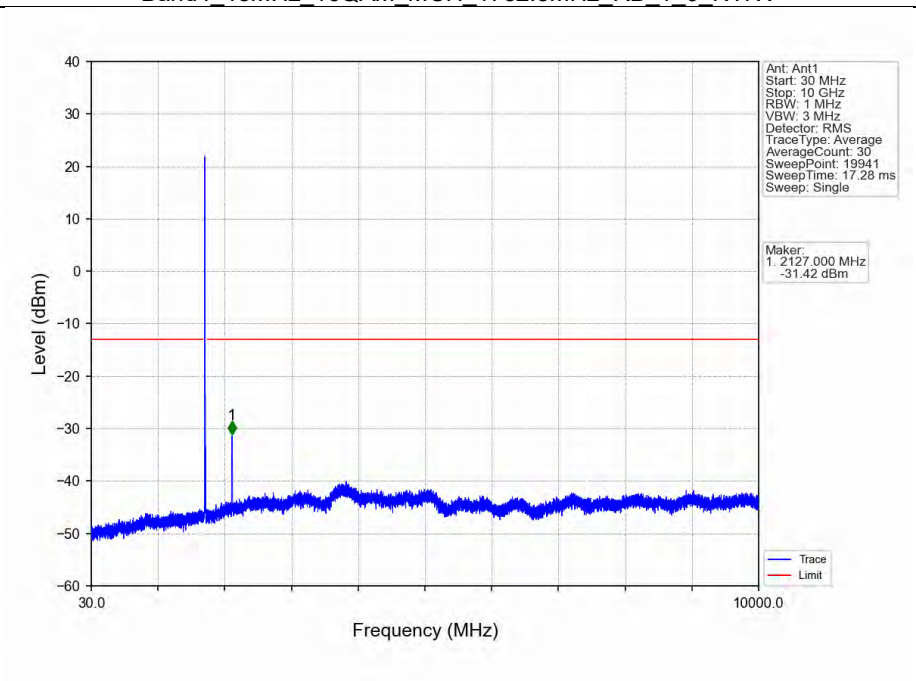

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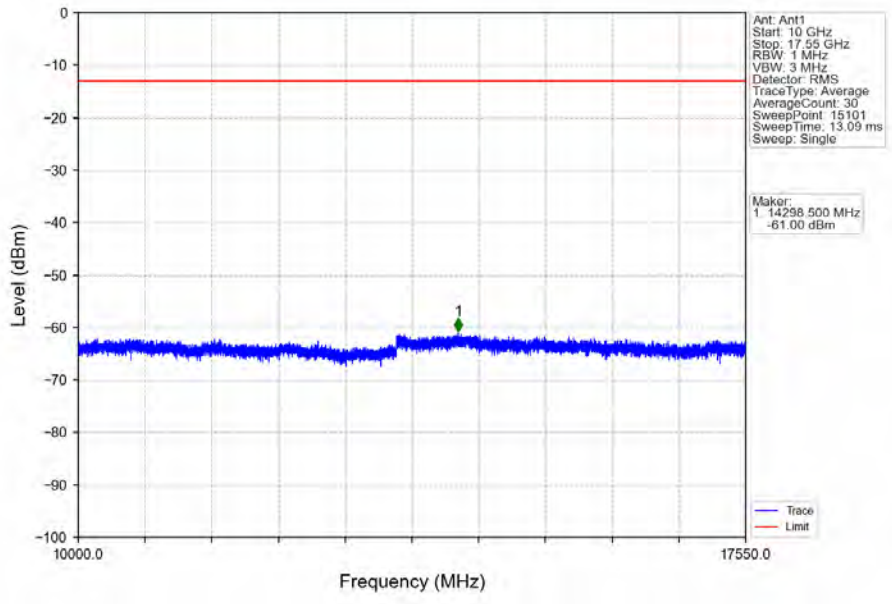

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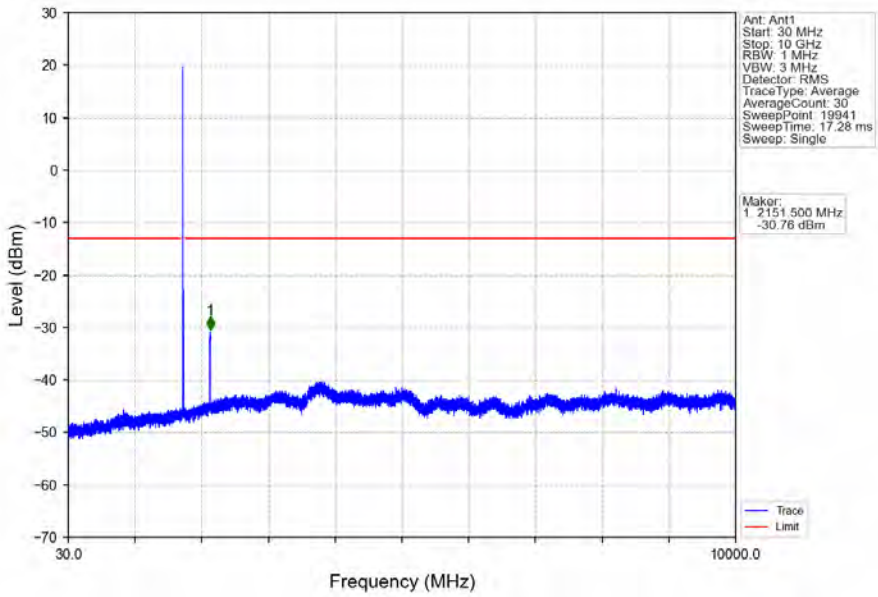

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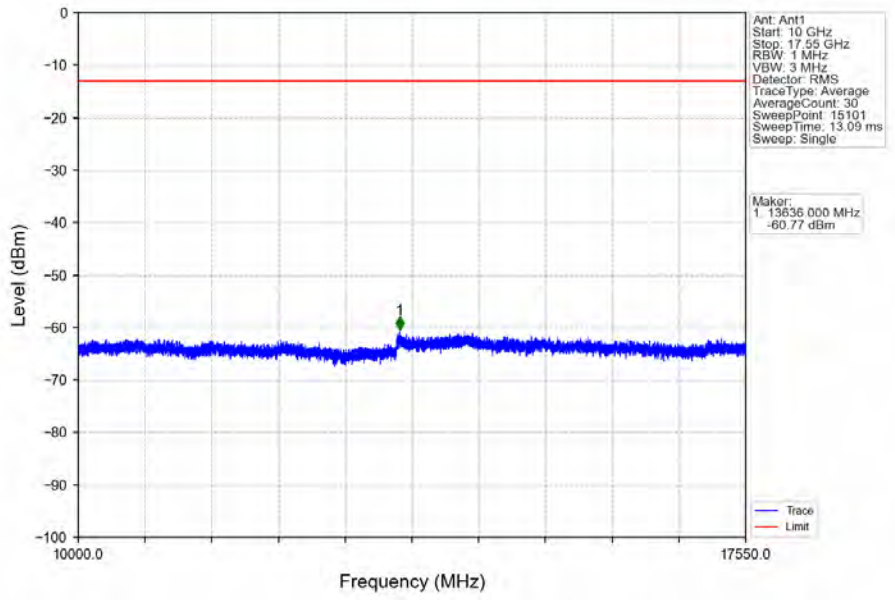

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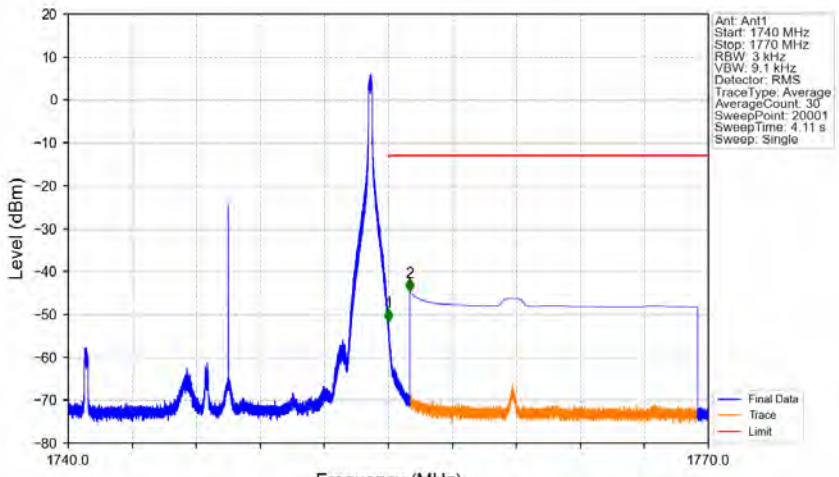

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1740	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.003	-51.72	-13	Pass
1756	1770	1	CHP	2	1756.001	-44.77	-13	Pass

Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV

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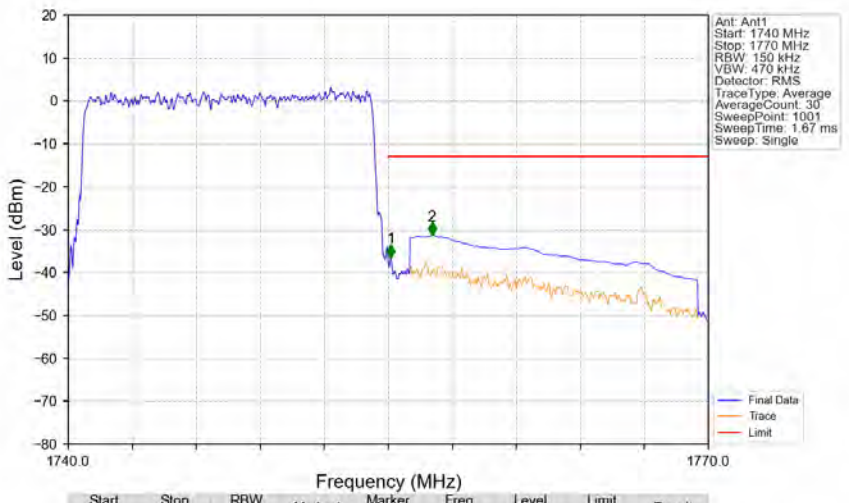

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1740	1755	0.15	/	/	/	/	/	/
1755	1756	0.15	/	1	1755.120	-36.55	-13	Pass
1756	1770	1	CHP	2	1757.040	-31.31	-13	Pass

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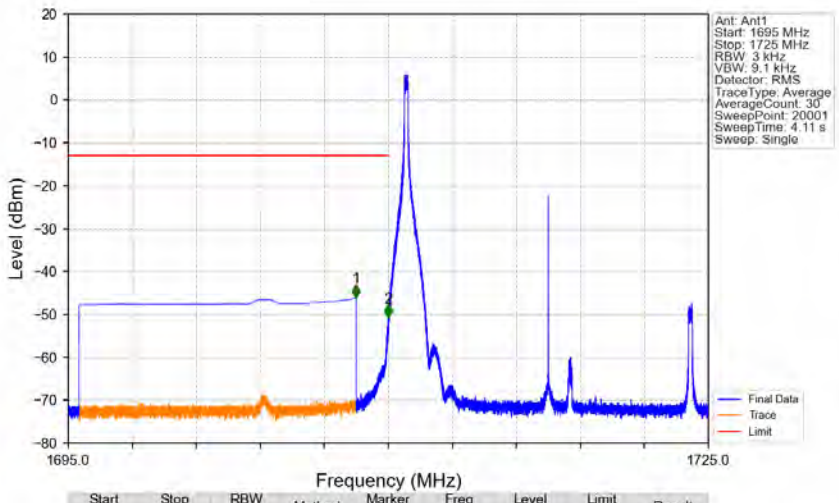
Band4_15MHz_64QAM_LCH_1717.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1708.493	-46.08	-13	Pass
1709	1710	0.003	/	2	1709.997	-50.75	-13	Pass
1710	1725	0.003	/	/	/	/	/	/

Band4_15MHz_64QAM_LCH_1717.5MHz_RB_1_0_NTNV

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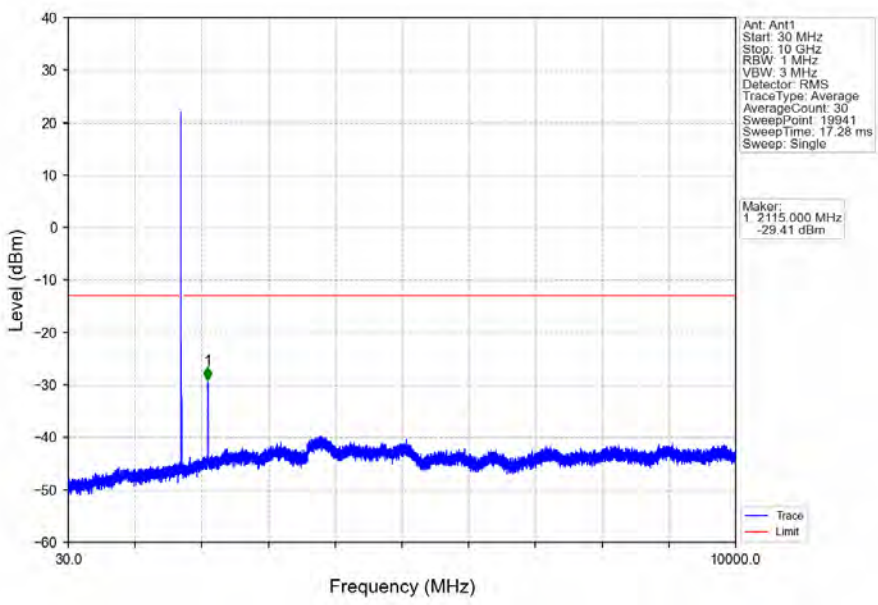

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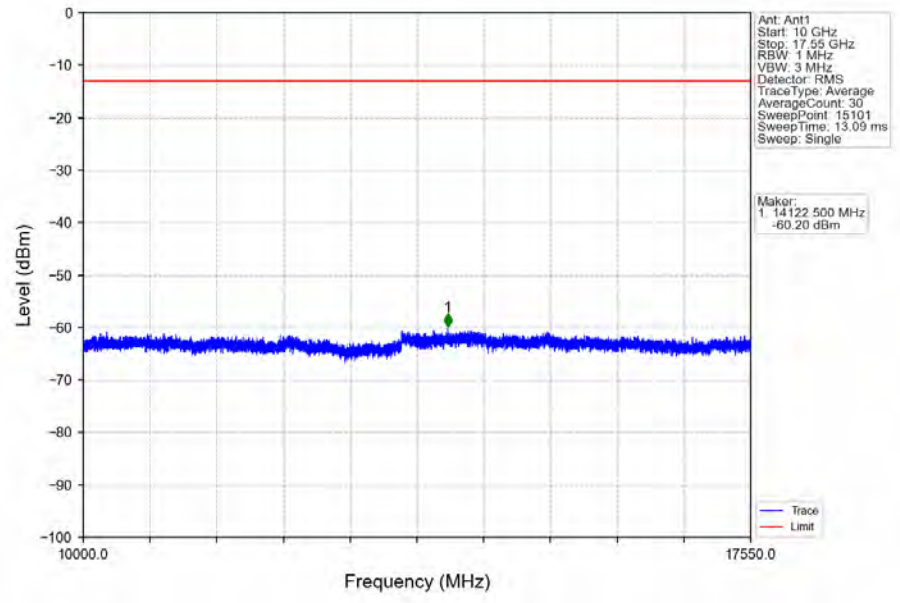
Band4_15MHz_64QAM_LCH_1717.5MHz_RB_1_0_NTNV



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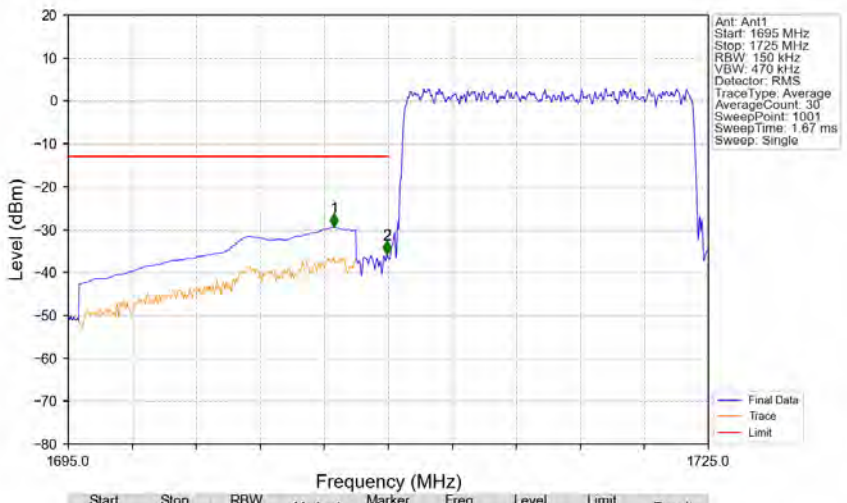

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1707.450	-29.44	-13	Pass
1709	1710	0.15	/	2	1709.940	-35.74	-13	Pass
1710	1725	0.15	/	/	/	/	/	/

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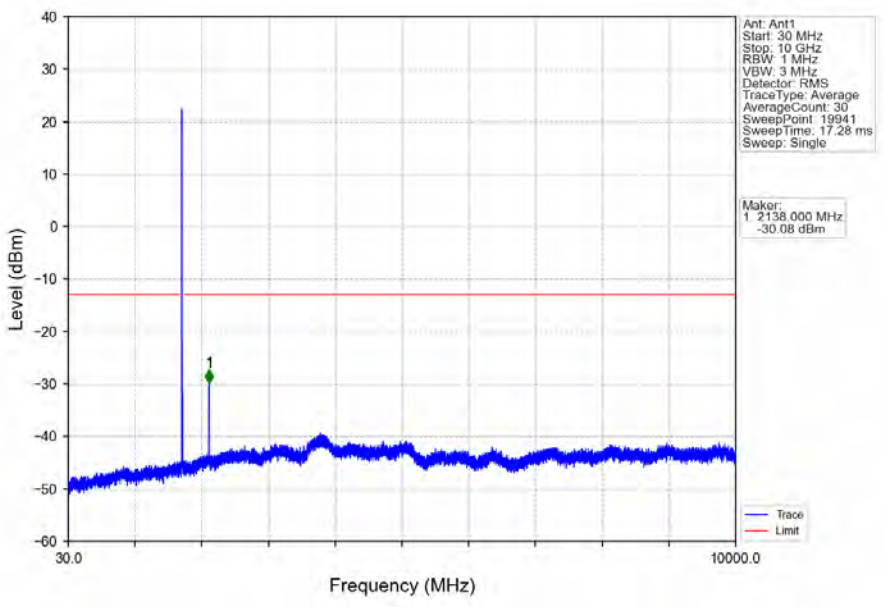

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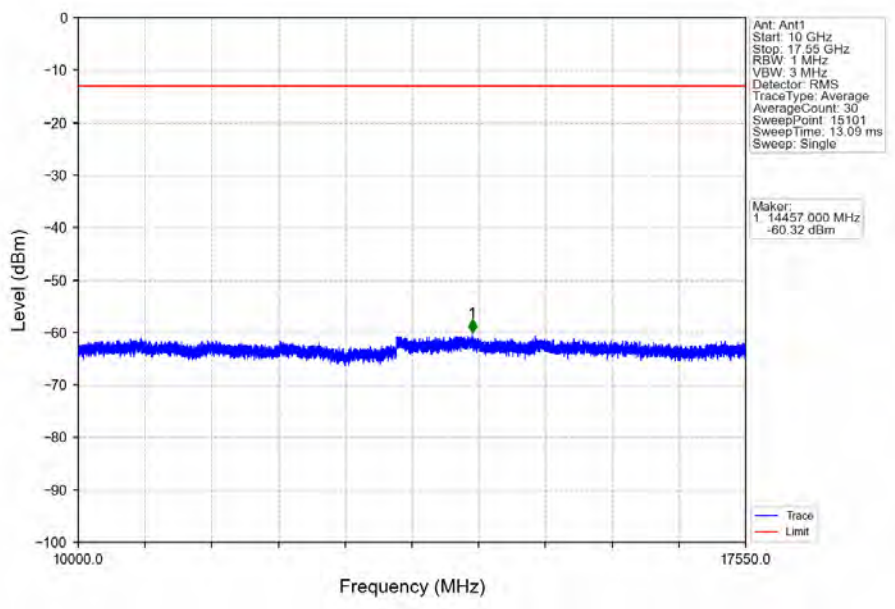

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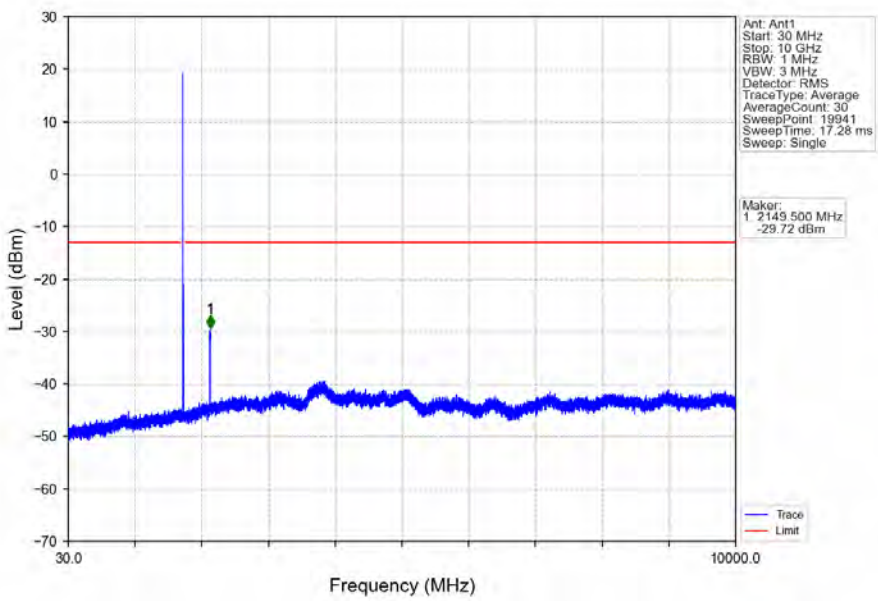

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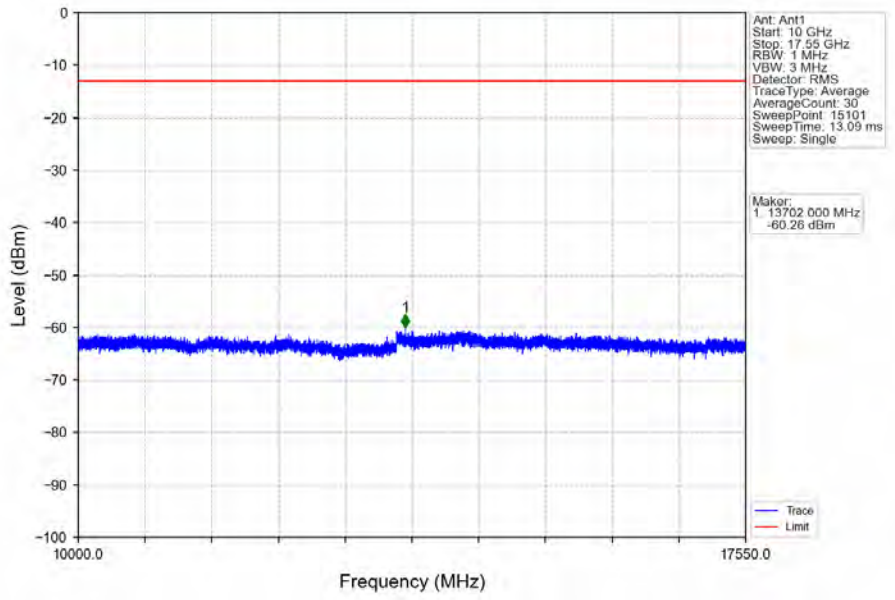

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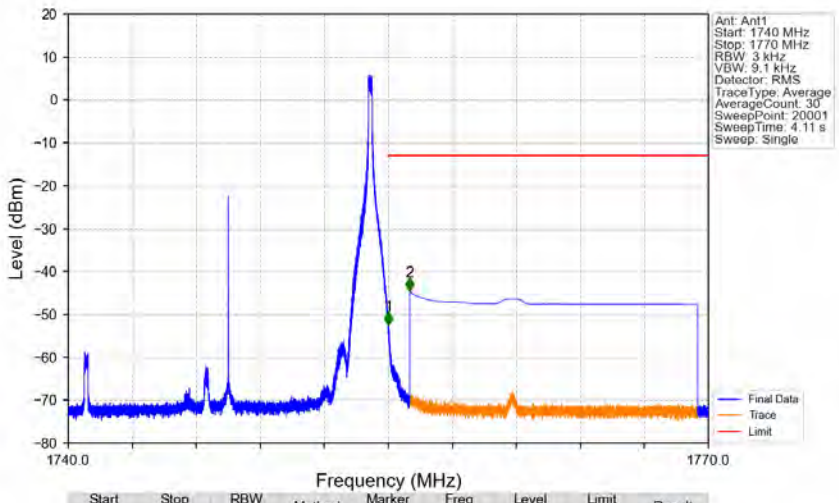

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1740	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.006	-52.48	-13	Pass
1756	1770	1	CHP	2	1756.001	-44.63	-13	Pass

Band4_15MHz_64QAM_HCH_1747.5MHz_RB_75_0_NTNV

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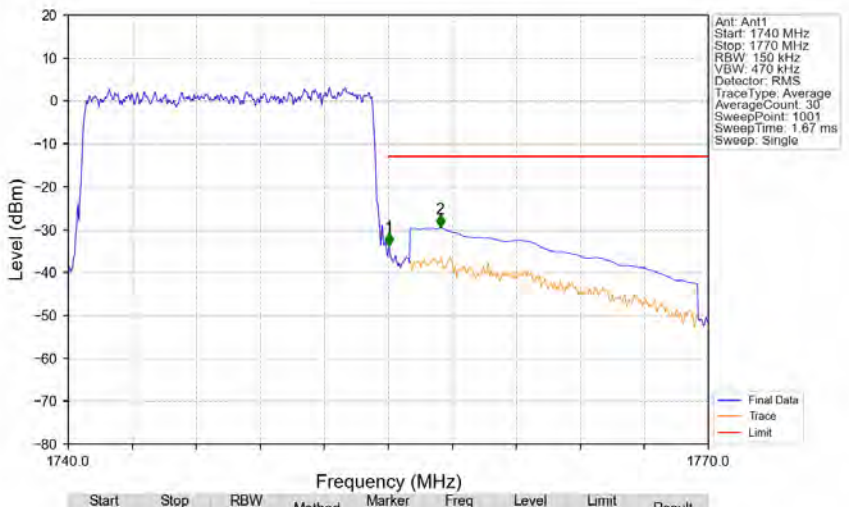

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1740	1755	0.15	/	/	/	/	/	/
1755	1756	0.15	/	1	1755.030	-33.86	-13	Pass
1756	1770	1	CHP	2	1757.430	-29.60	-13	Pass

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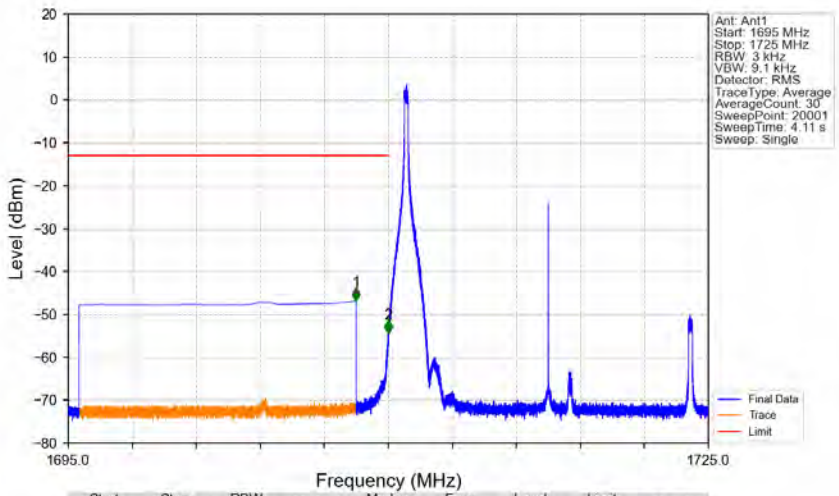

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1708.493	-46.84	-13	Pass
1709	1710	0.003	/	2	1709.995	-54.40	-13	Pass
1710	1725	0.003	/	/	/	/	/	/

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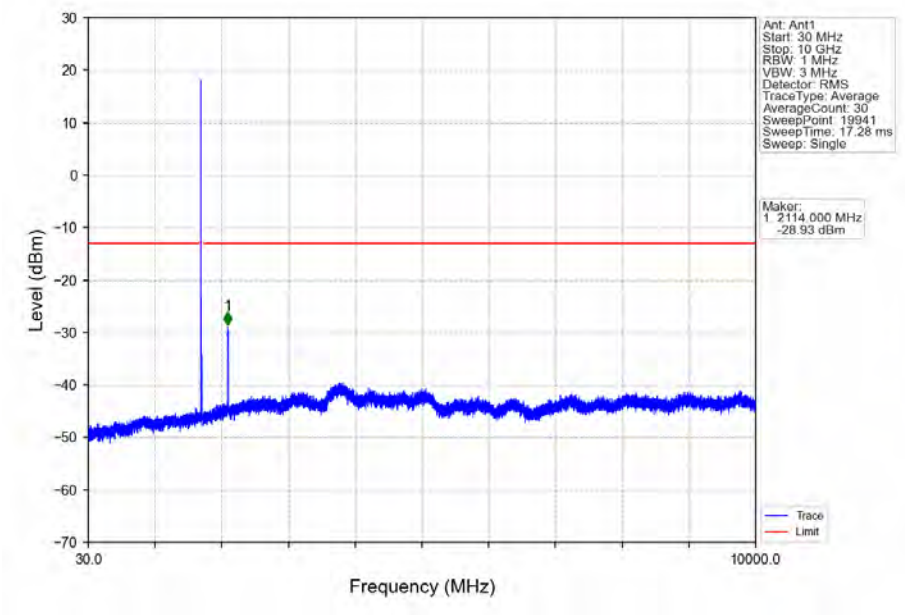

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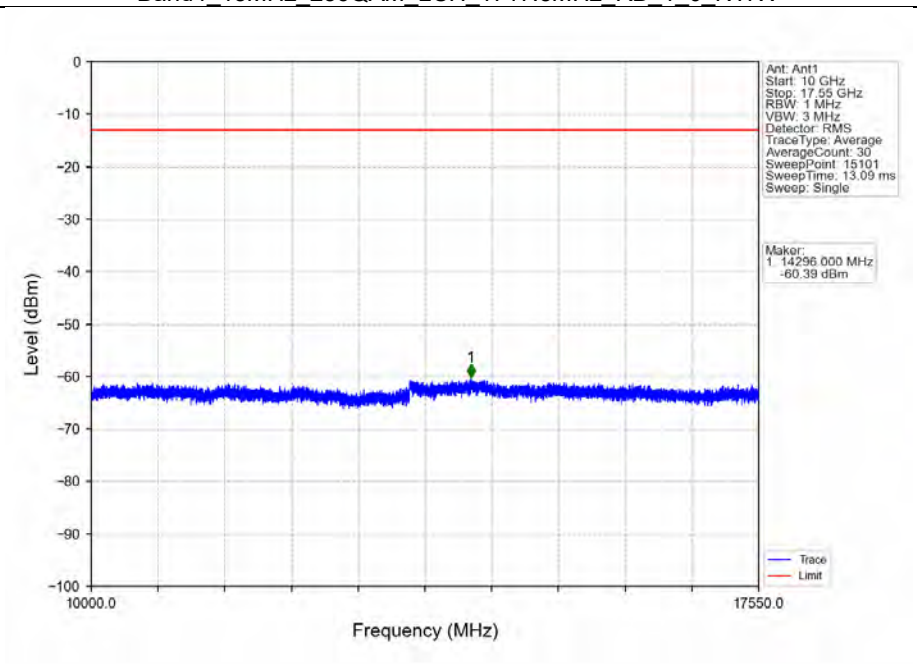

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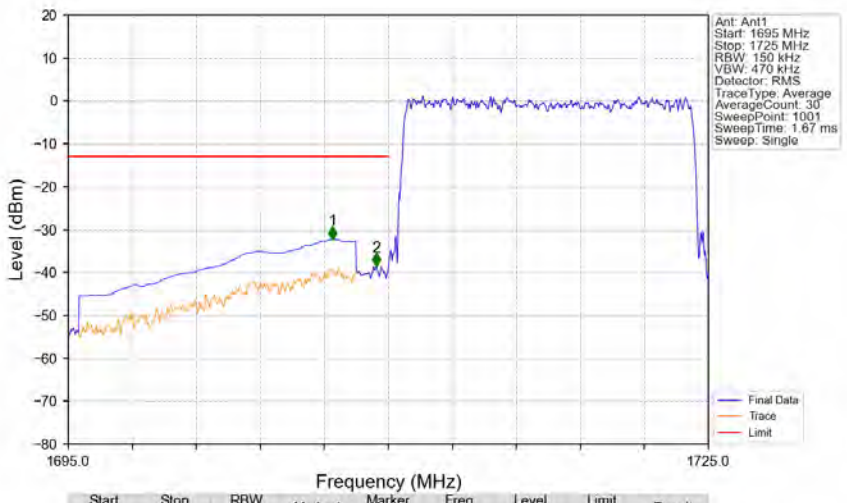

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1707.390	-32.29	-13	Pass
1709	1710	0.15	/	2	1709.430	-38.55	-13	Pass
1710	1725	0.15	/	/	/	/	/	/

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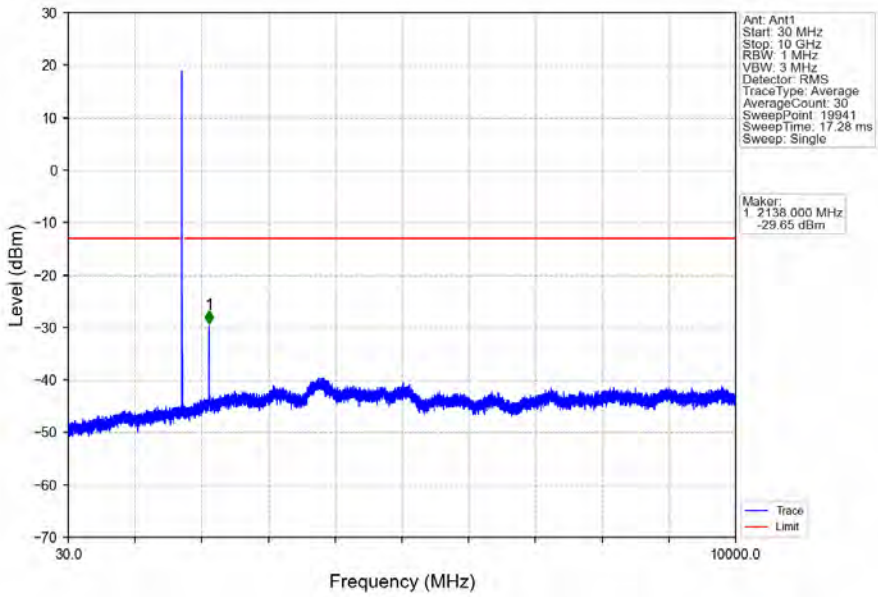
Band4_15MHz_256QAM_MCH_1732.5MHz_RB_1_0_NTNV



Band4_15MHz_256QAM_MCH_1732.5MHz_RB_1_0_NTNV

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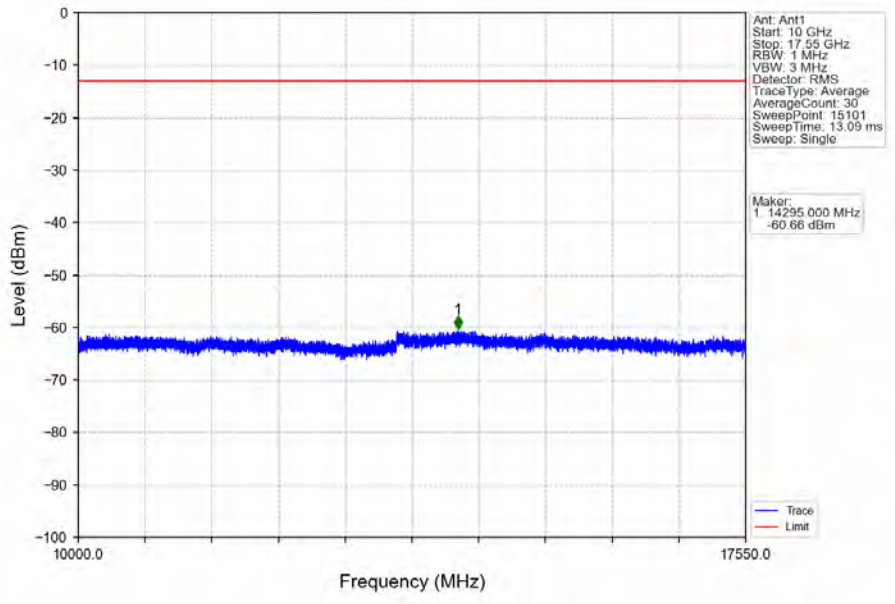

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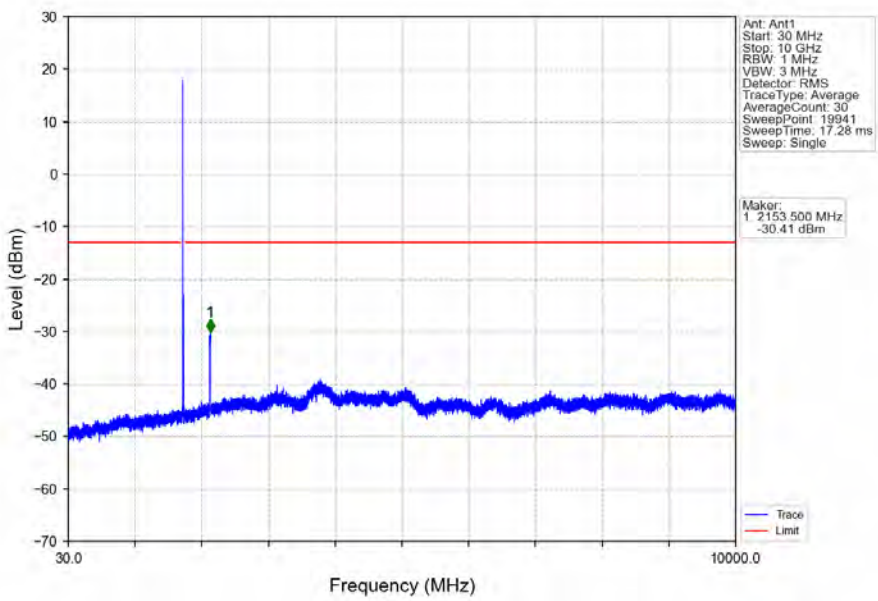
Band4_15MHz_256QAM_HCH_1747.5MHz_RB_1_0_NTNV



Band4_15MHz_256QAM_HCH_1747.5MHz_RB_1_0_NTNV

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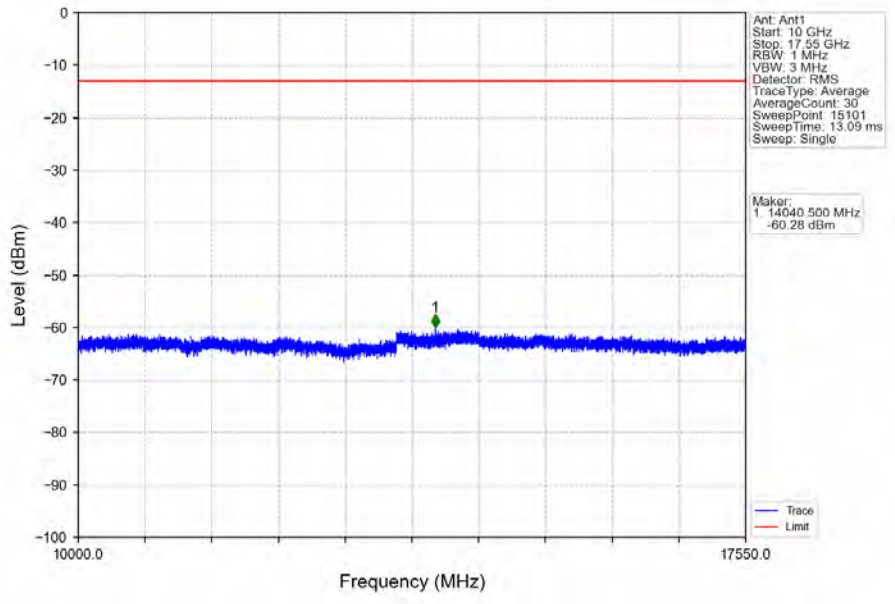

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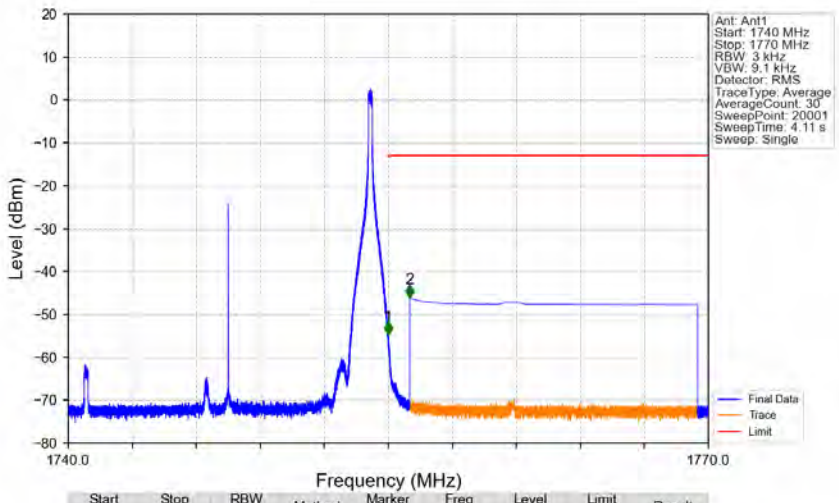
Band4_15MHz_256QAM_HCH_1747.5MHz_RB_1_74_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1740	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-54.84	-13	Pass
1756	1770	1	CHP	2	1756.001	-46.09	-13	Pass

Band4_15MHz_256QAM_HCH_1747.5MHz_RB_75_0_NTNV

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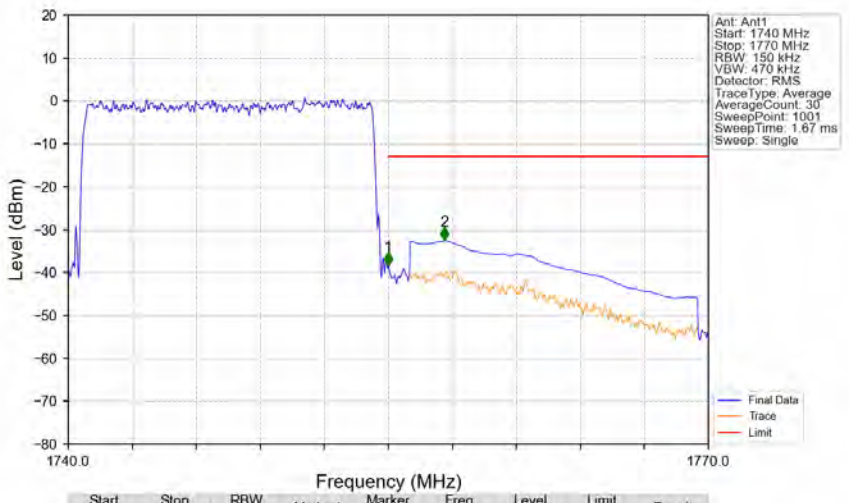

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1740	1755	0.15	/	/	/	/	/	/
1755	1756	0.15	/	1	1755.000	-38.34	-13	Pass
1756	1770	1	CHP	2	1757.640	-32.62	-13	Pass

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5.6 B4_20MHz

5.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
16QAM	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
64QAM	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
256QAM	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

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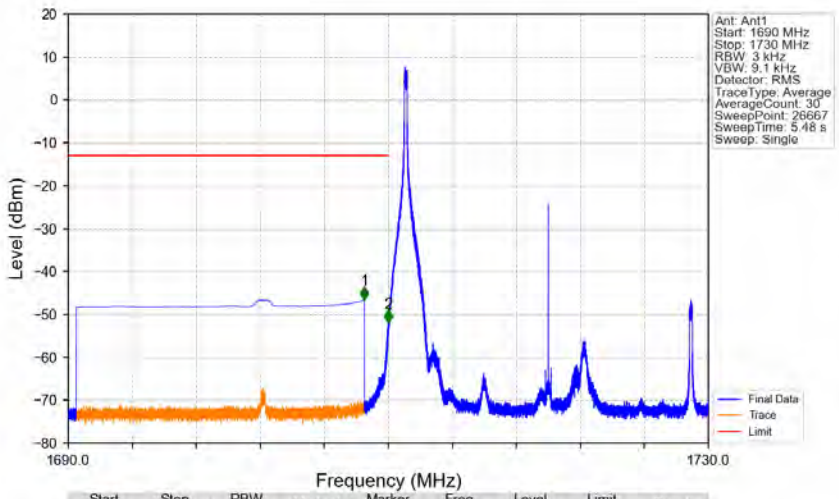
5.6.2 Test Graph

Band4_20MHz_QPSK_LCH_1720MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1708.500	-46.58	-13	Pass
1709	1710	0.003	/	2	1709.989	-52.01	-13	Pass
1710	1730	0.003	/	/	/	/	/	/

Band4_20MHz_QPSK_LCH_1720MHz_RB_1_0_NTNV

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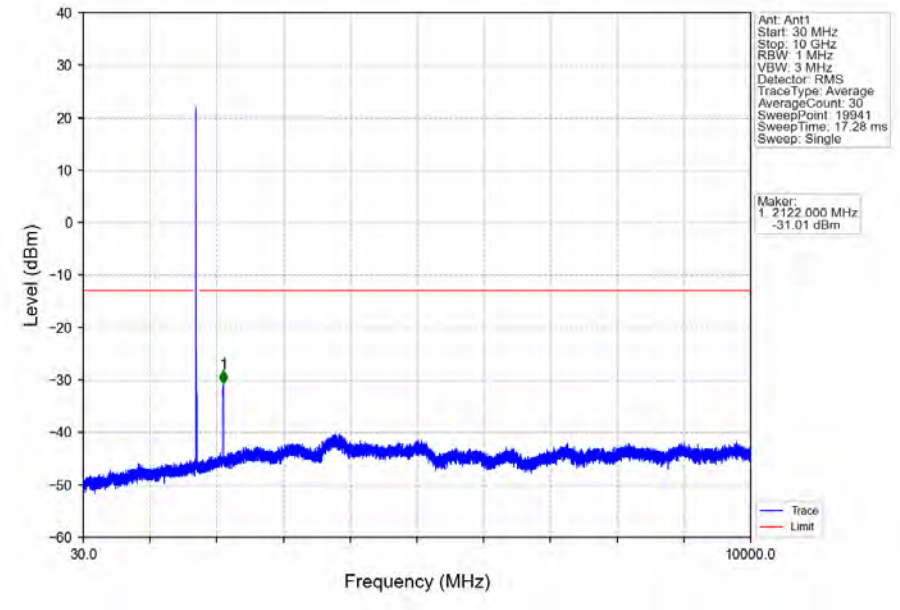

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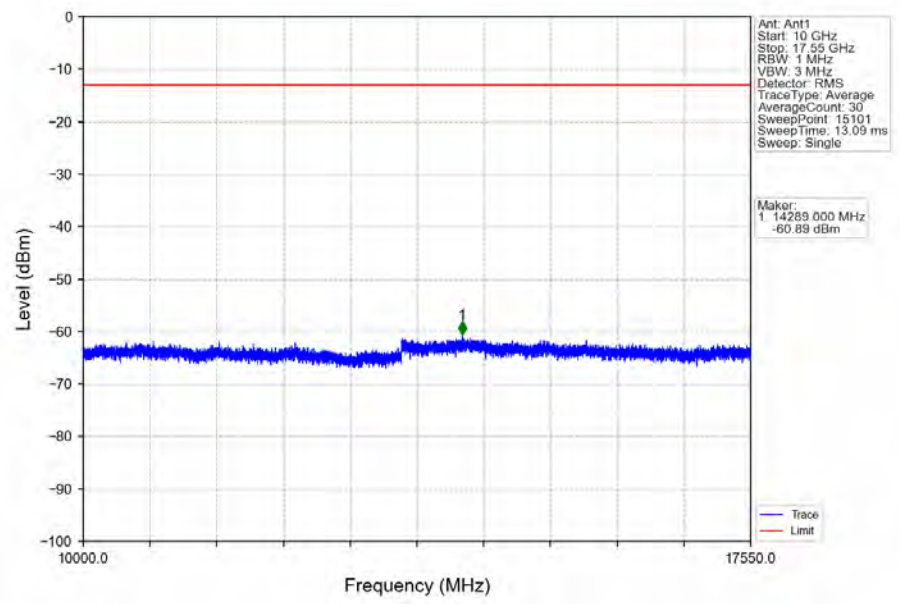

Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV

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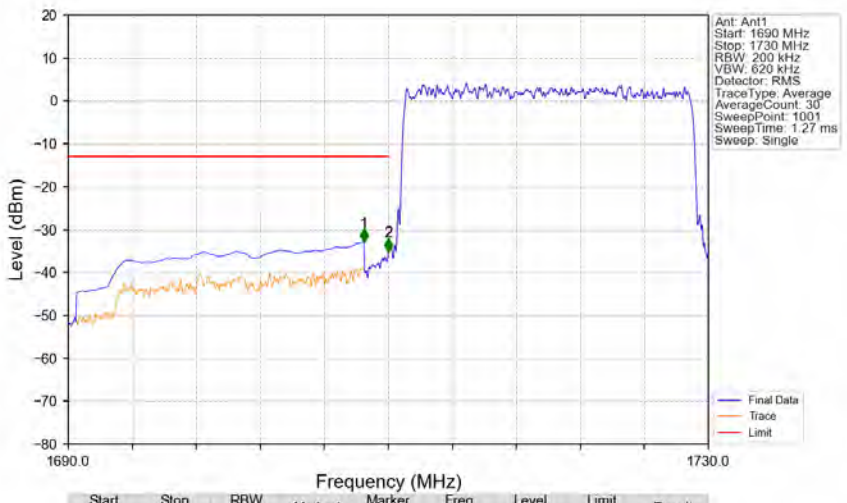

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1708.480	-32.87	-13	Pass
1709	1710	0.2	/	2	1710.000	-35.13	-13	Pass
1710	1730	0.2	/	/	/	/	/	/

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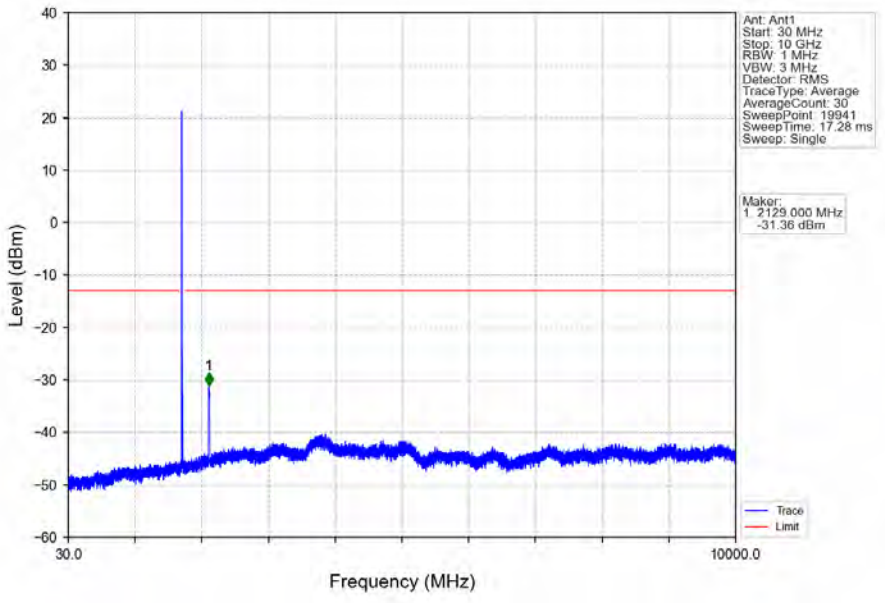
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



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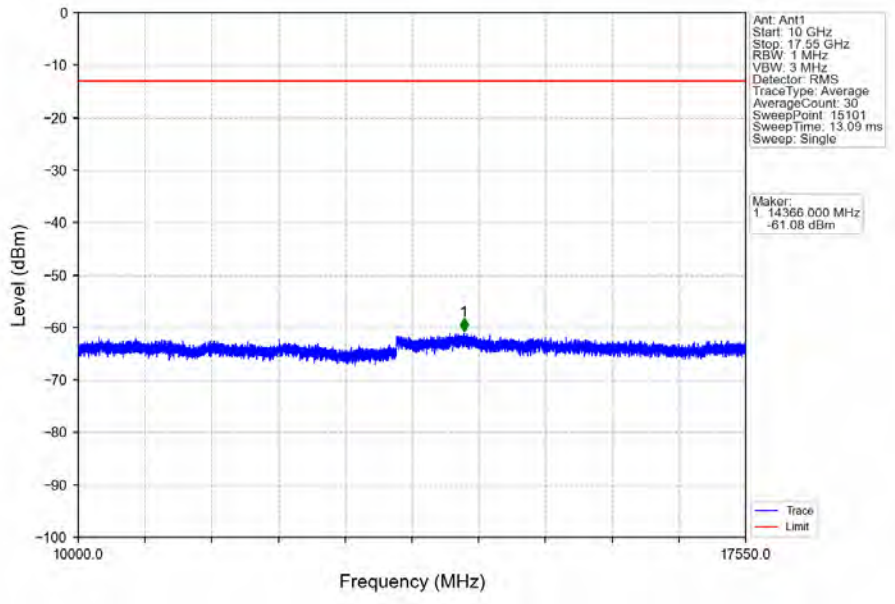

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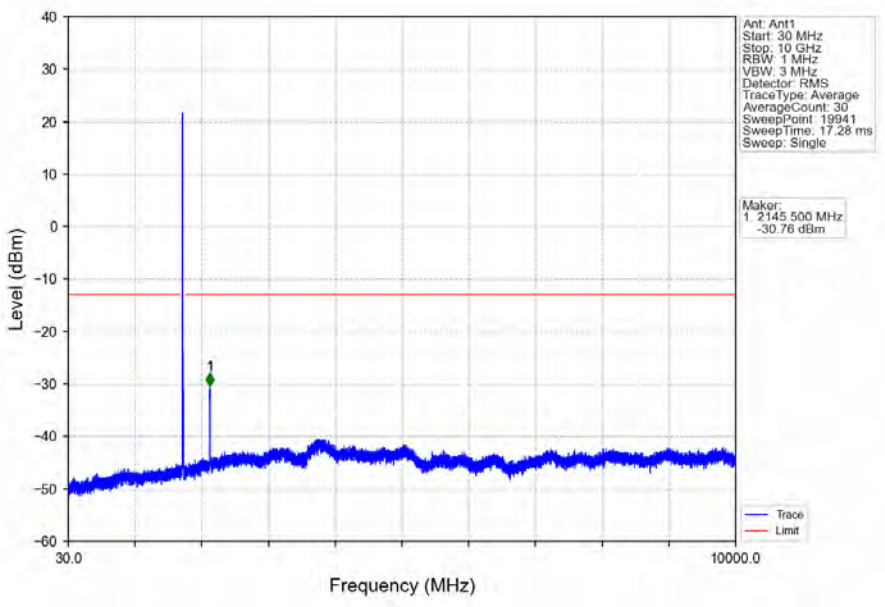
Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV



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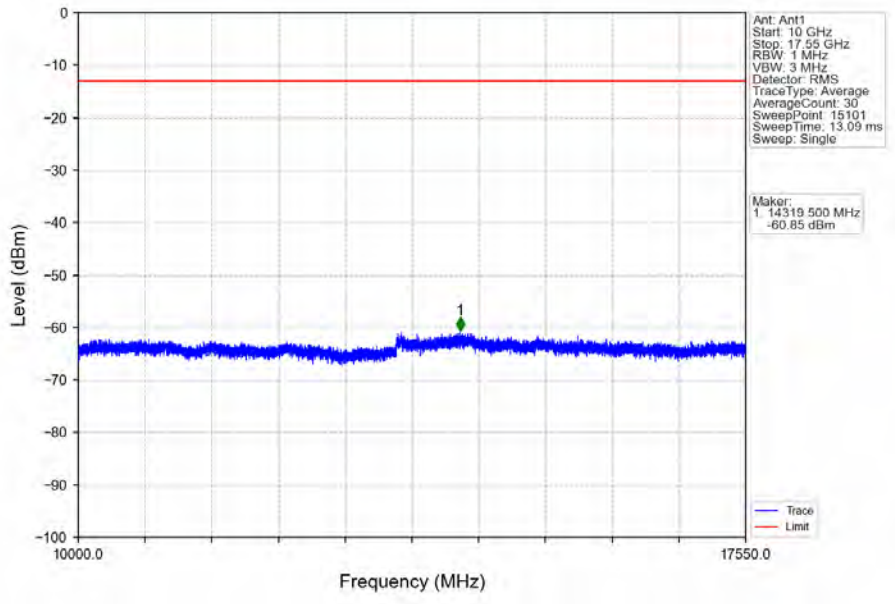

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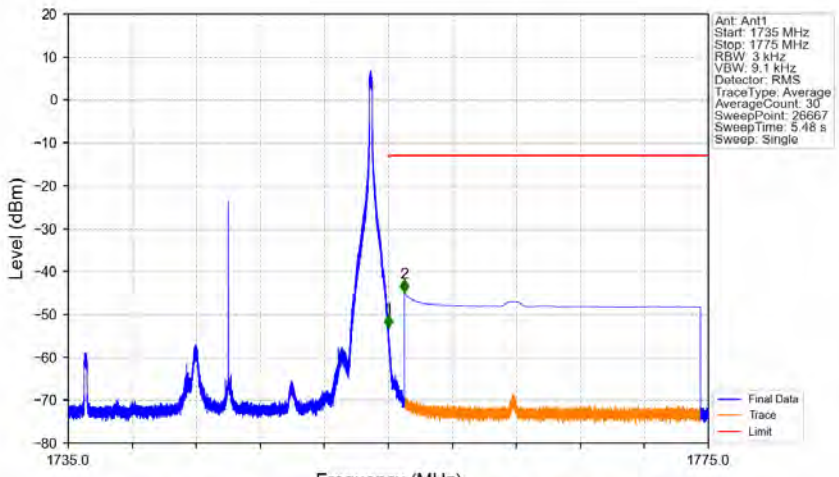

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1735	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.007	-53.19	-13	Pass
1756	1775	1	CHP	2	1756.001	-44.89	-13	Pass

Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV

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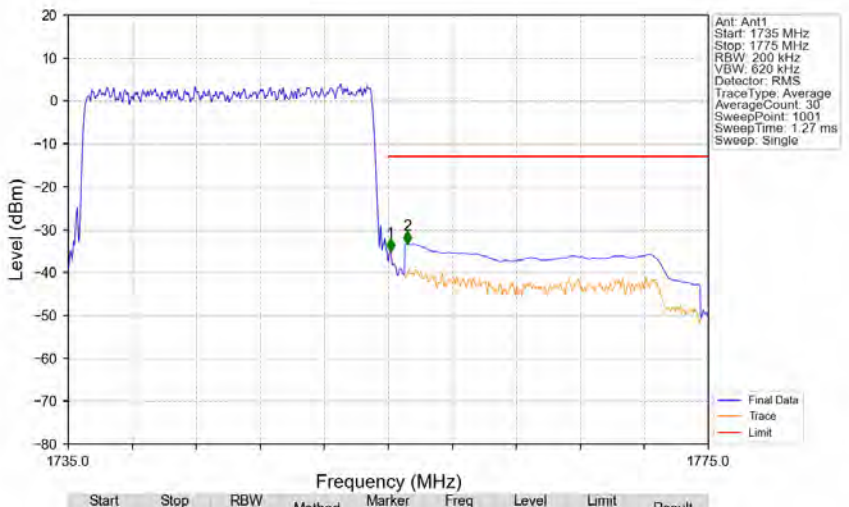

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1735	1755	0.2	/	/	/	/	/	/
1755	1756	0.2	/	1	1755.120	-35.21	-13	Pass
1756	1775	1	CHP	2	1756.200	-33.40	-13	Pass

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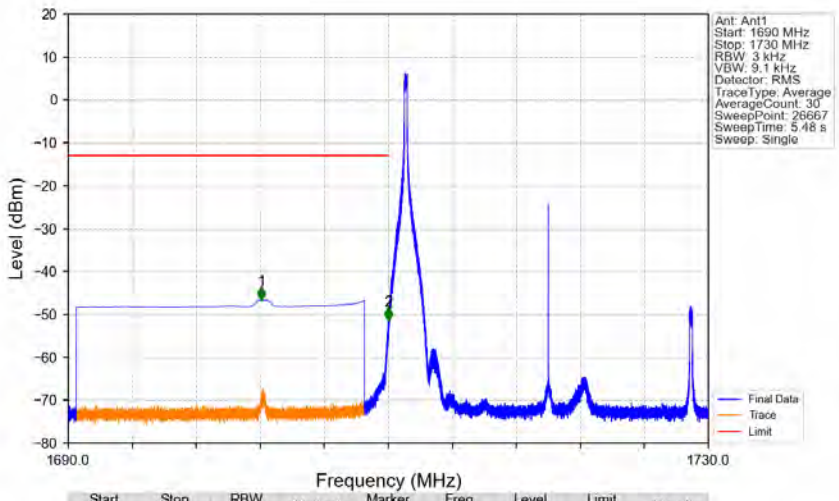
Band4_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1702.078	-46.69	-13	Pass
1709	1710	0.003	/	2	1709.993	-51.46	-13	Pass
1710	1730	0.003	/	/	/	/	/	/

Band4_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV

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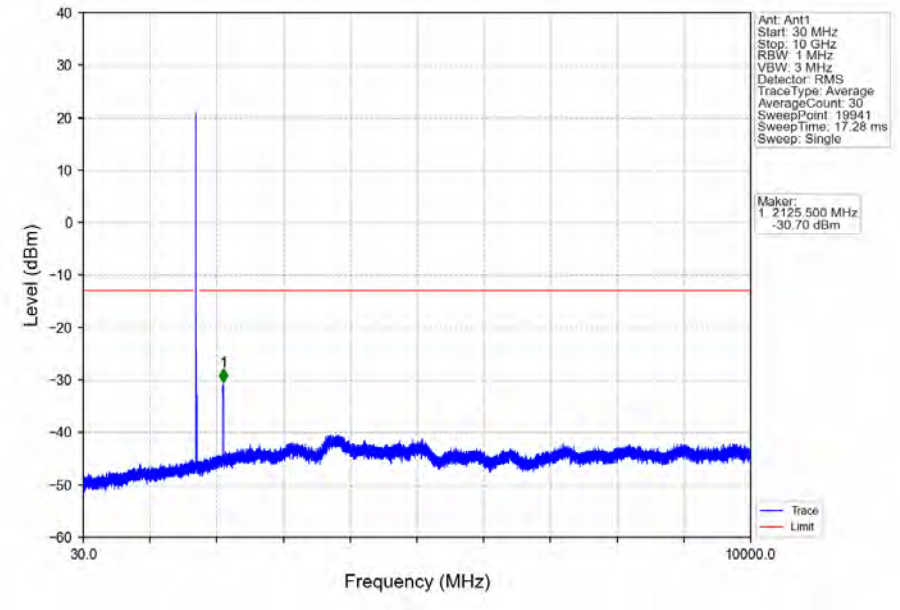

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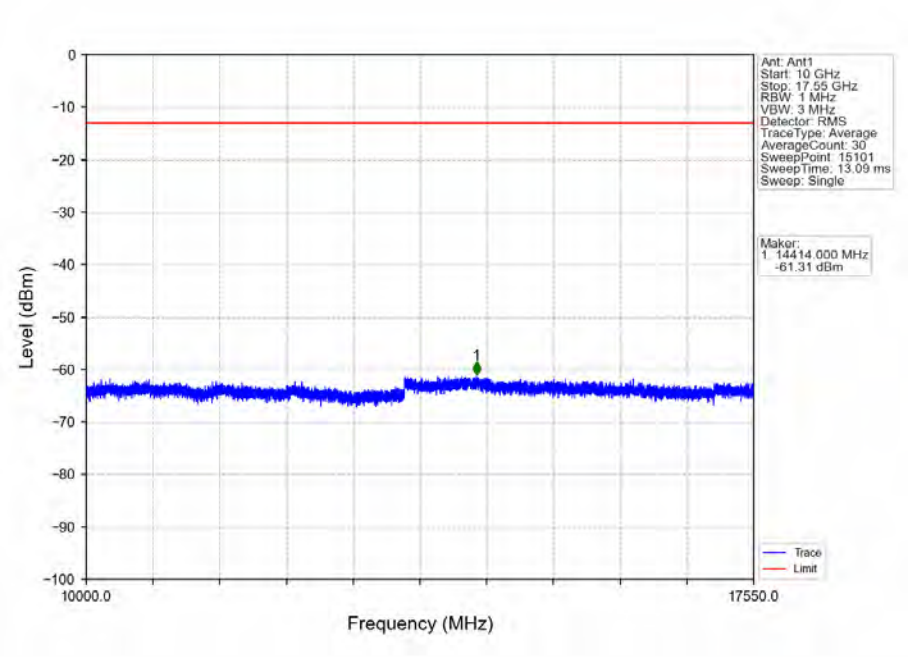

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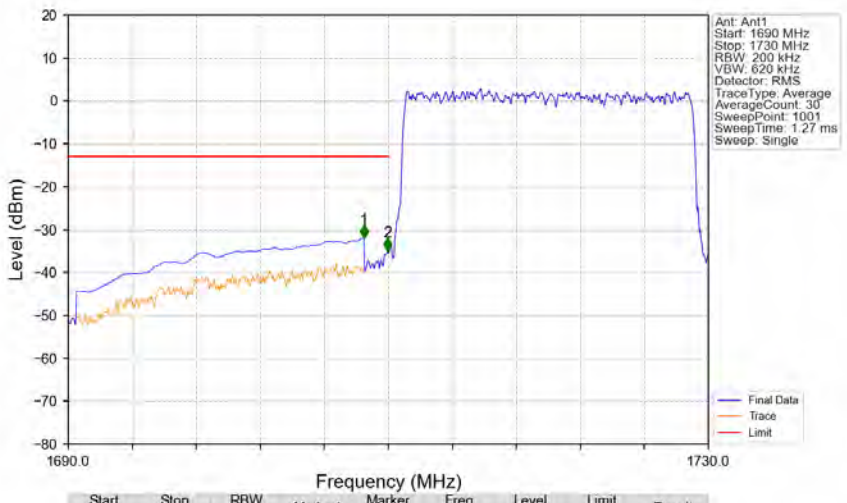

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1708.480	-32.03	-13	Pass
1709	1710	0.2	/	2	1709.960	-35.11	-13	Pass
1710	1730	0.2	/	/	/	/	/	/

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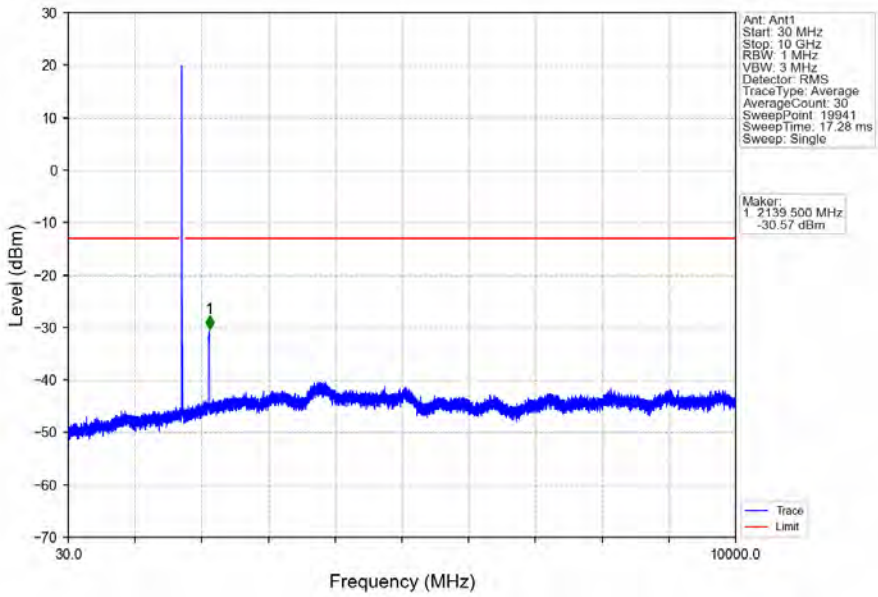

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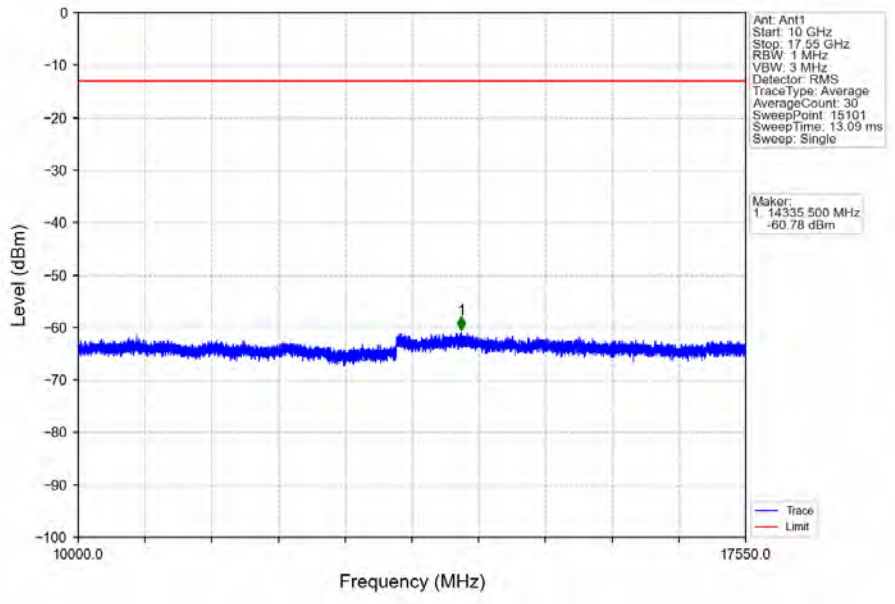

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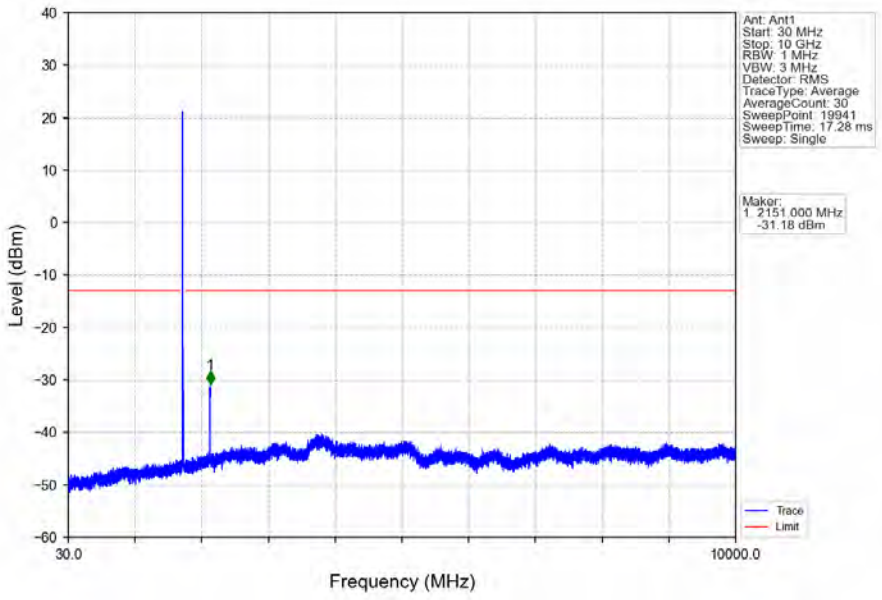
Band4_20MHz_16QAM_HCH_1745MHz_RB_1_0_NTNV



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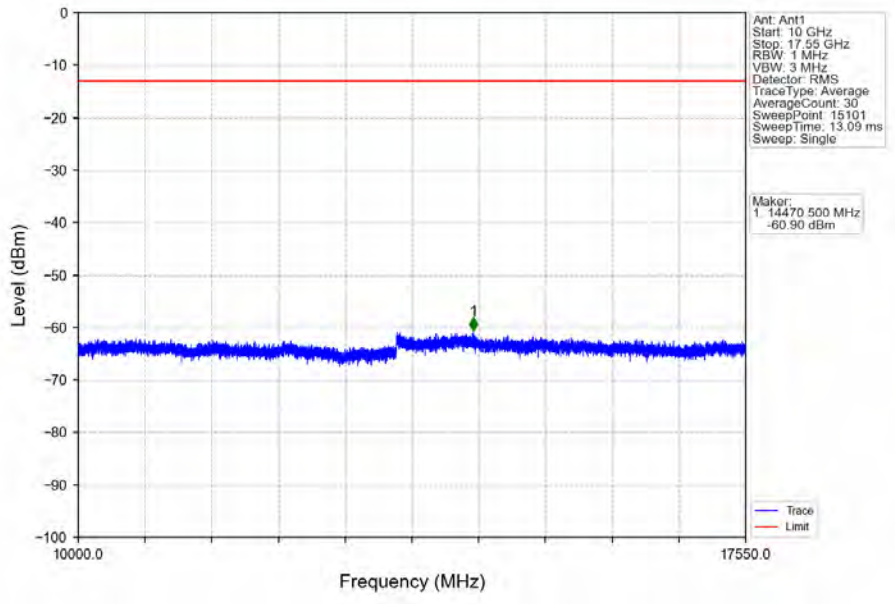

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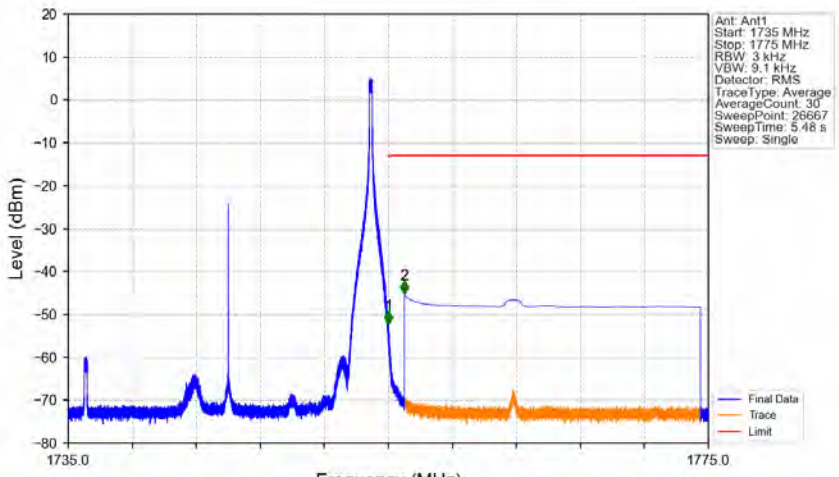
Band4_20MHz_16QAM_HCH_1745MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1735	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.006	-52.32	-13	Pass
1756	1775	1	CHP	2	1756.001	-45.32	-13	Pass

Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV

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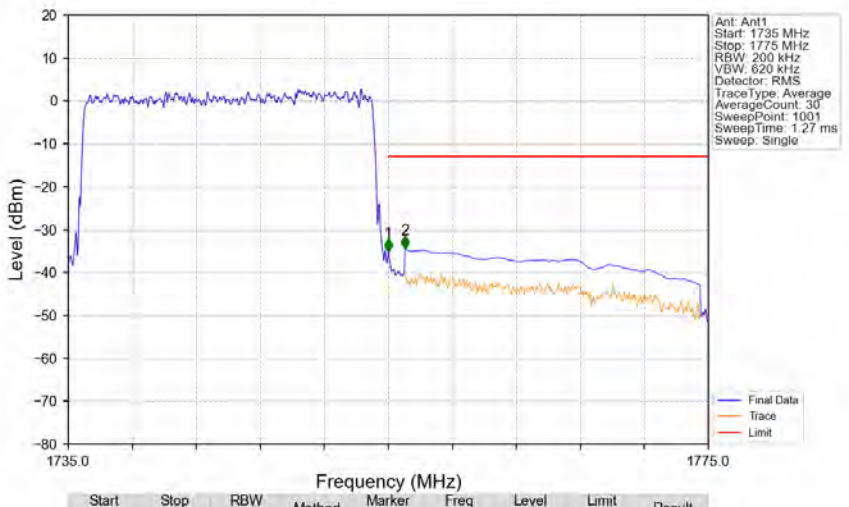

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1735	1755	0.2	/	/	/	/	/	/
1755	1756	0.2	/	1	1755.000	-35.27	-13	Pass
1756	1775	1	CHP	2	1756.040	-34.47	-13	Pass

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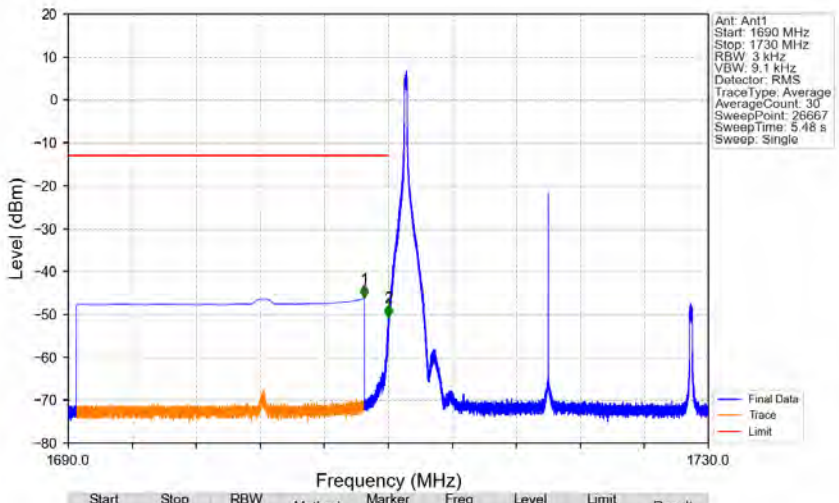
Band4_20MHz_64QAM_LCH_1720MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1708.497	-46.20	-13	Pass
1709	1710	0.003	/	2	1709.991	-50.63	-13	Pass
1710	1730	0.003	/	/	/	/	/	/

Band4_20MHz_64QAM_LCH_1720MHz_RB_1_0_NTNV

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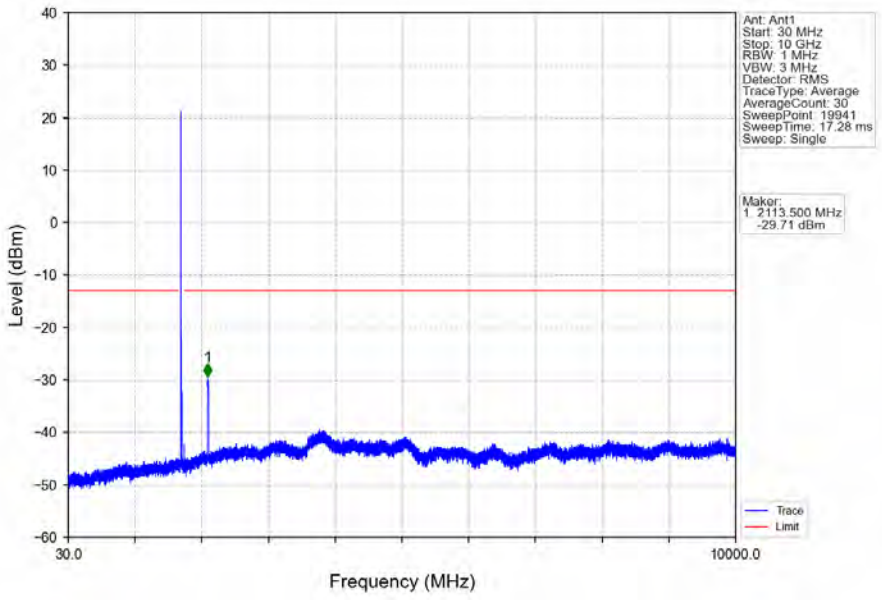

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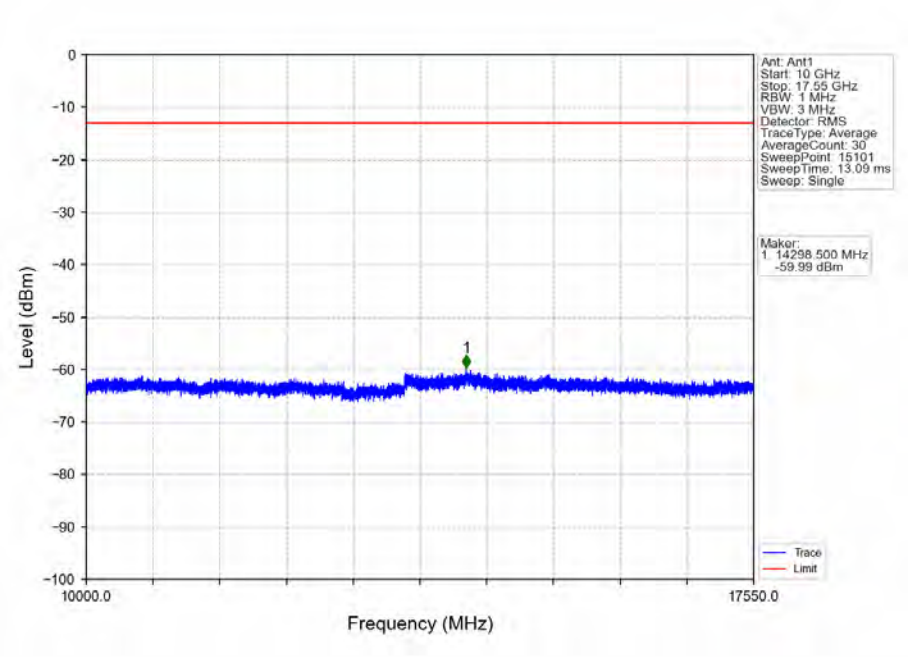
Band4_20MHz_64QAM_LCH_1720MHz_RB_1_0_NTNV



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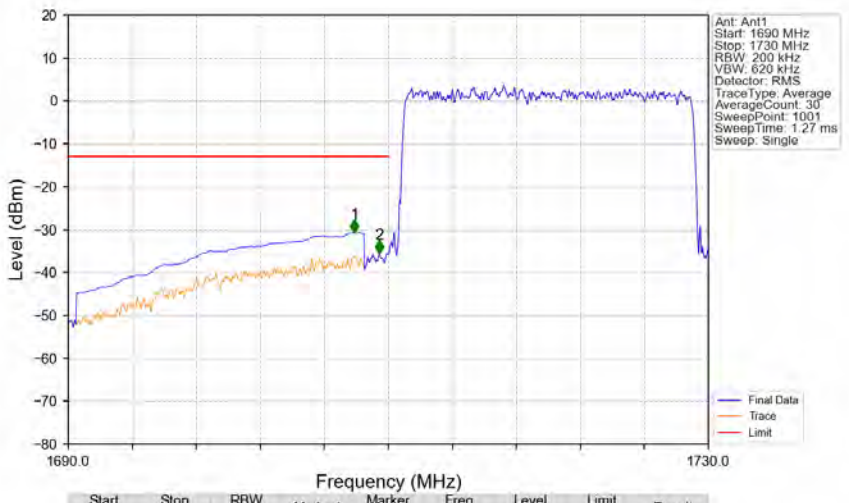

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1707.880	-30.74	-13	Pass
1709	1710	0.2	/	2	1709.440	-35.50	-13	Pass
1710	1730	0.2	/	/	/	/	/	/

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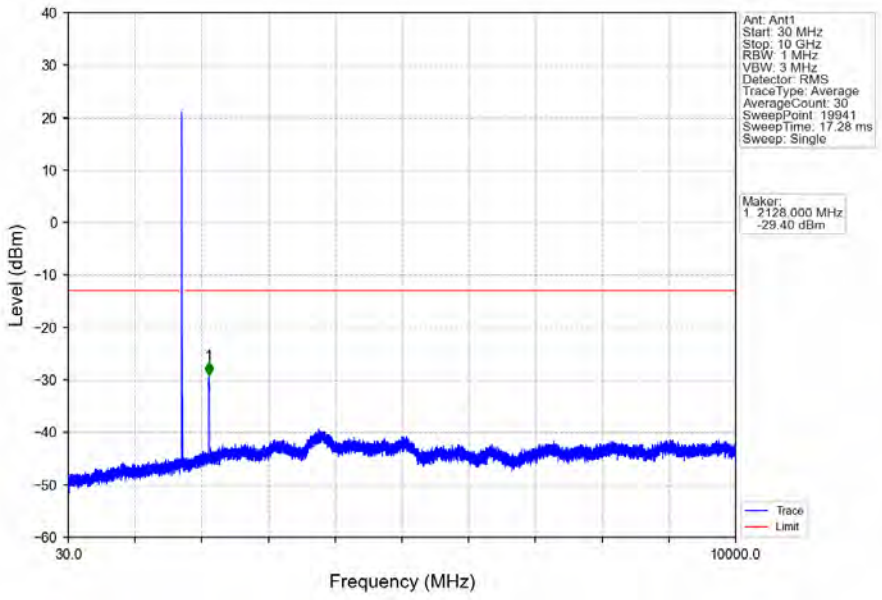

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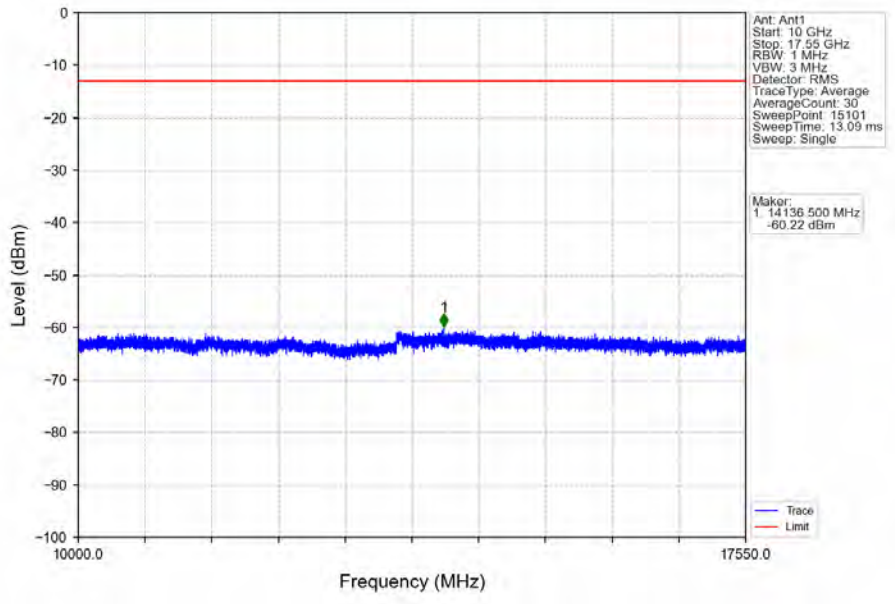

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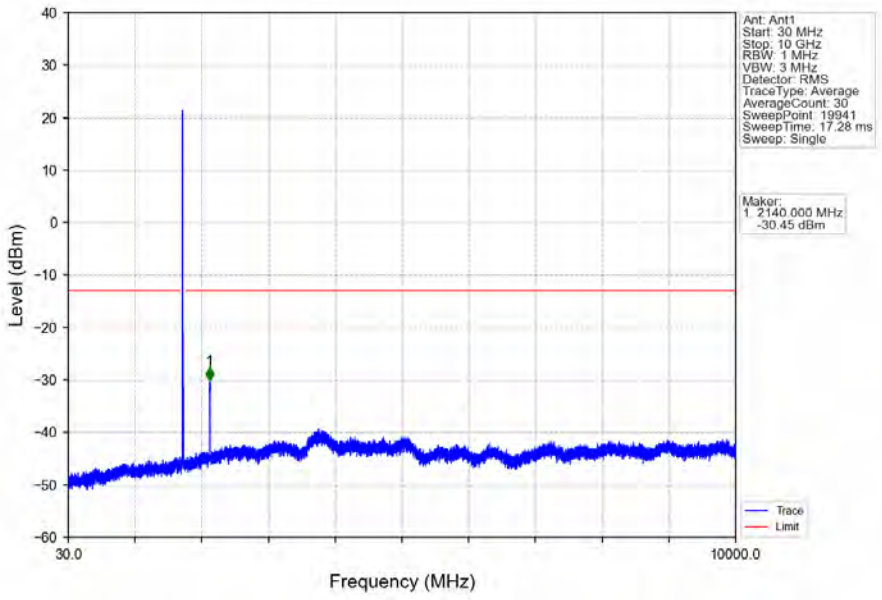

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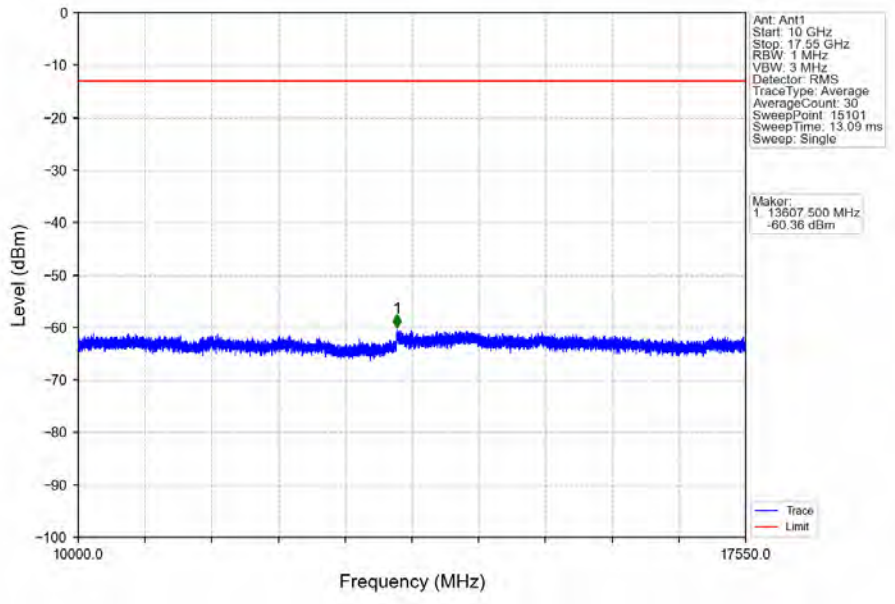

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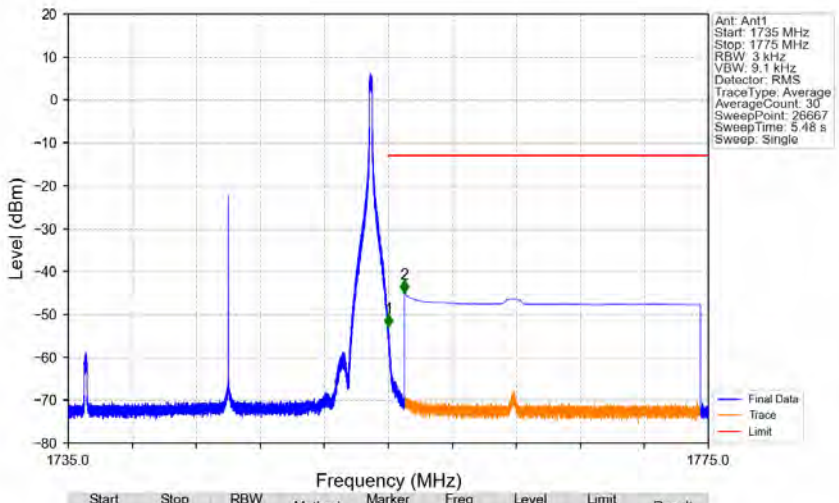

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1735	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.003	-53.08	-13	Pass
1756	1775	1	CHP	2	1756.001	-45.13	-13	Pass

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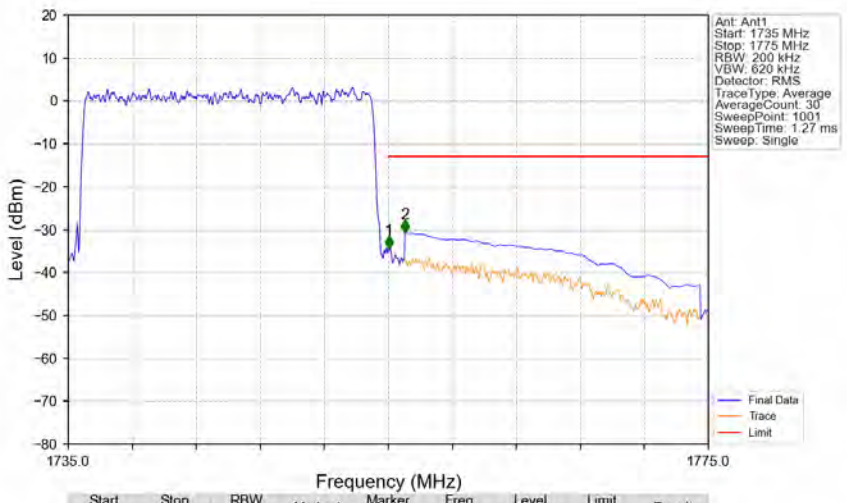

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1735	1755	0.2	/	/	/	/	/	/
1755	1756	0.2	/	1	1755.040	-34.50	-13	Pass
1756	1775	1	CHP	2	1756.040	-30.77	-13	Pass

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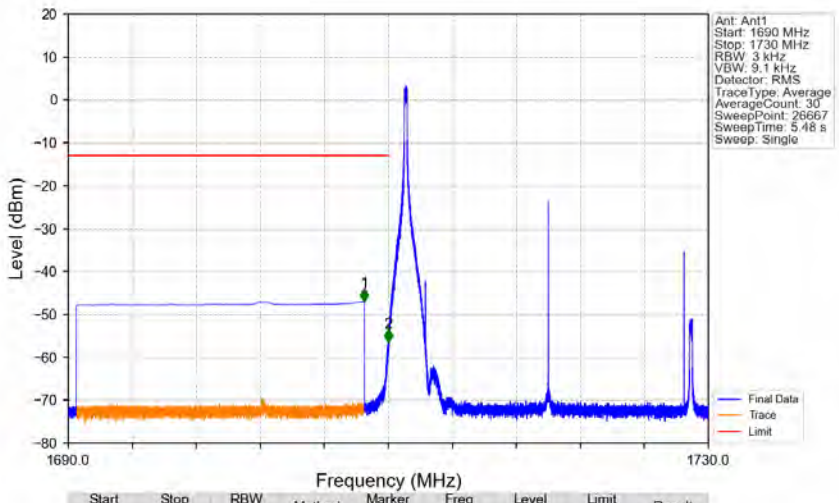
Band4_20MHz_256QAM_LCH_1720MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1708.495	-46.98	-13	Pass
1709	1710	0.003	/	2	1709.994	-56.62	-13	Pass
1710	1730	0.003	/	/	/	/	/	/

Band4_20MHz_256QAM_LCH_1720MHz_RB_1_0_NTNV

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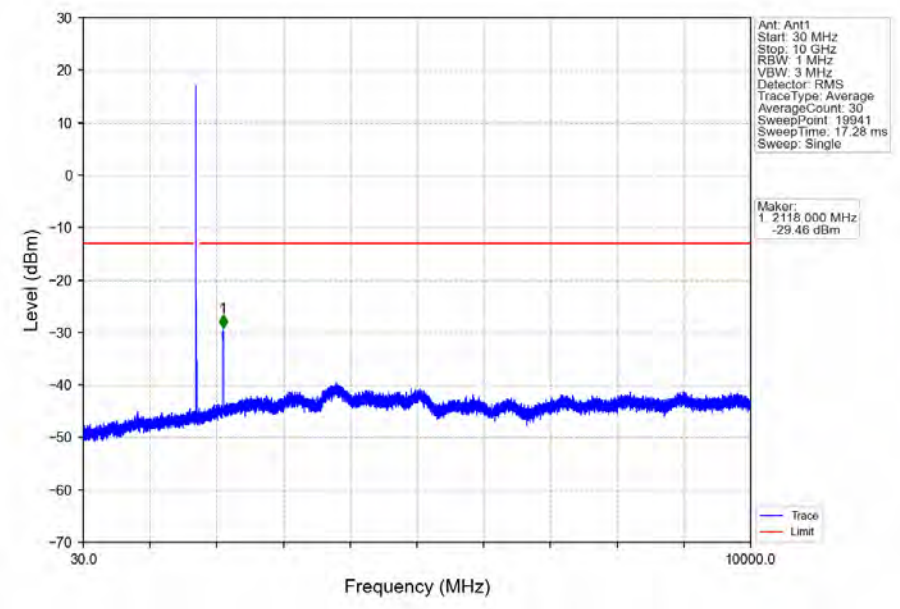

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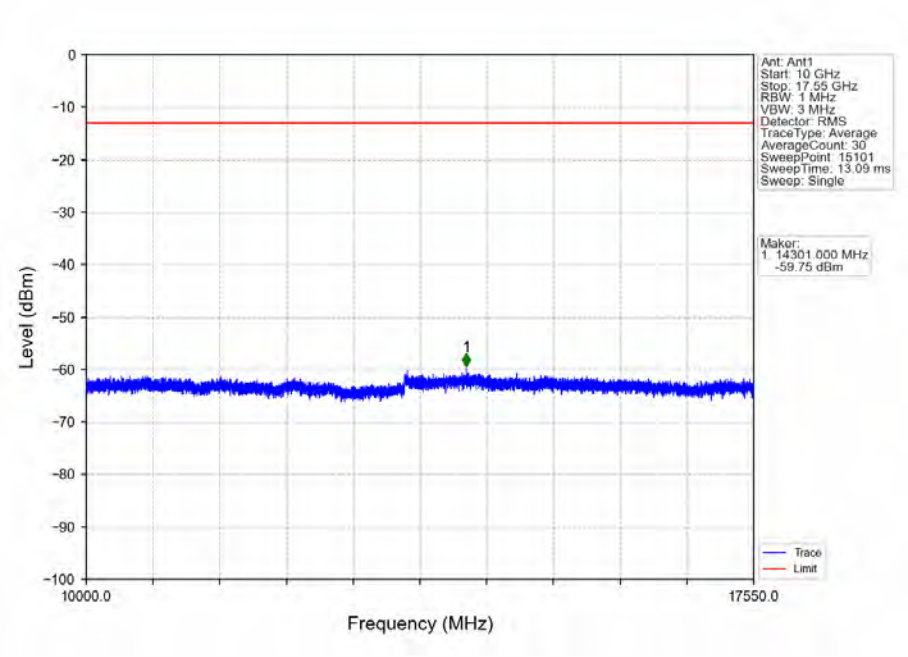

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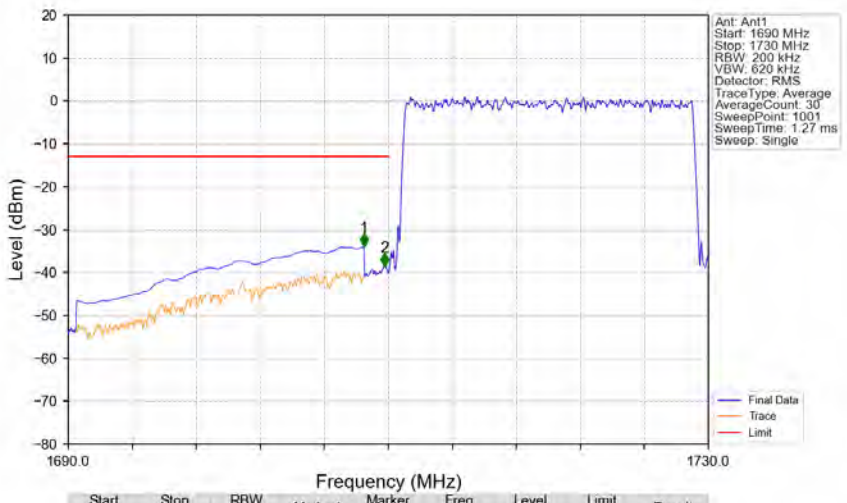

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1708.480	-34.03	-13	Pass
1709	1710	0.2	/	2	1709.760	-38.50	-13	Pass
1710	1730	0.2	/	/	/	/	/	/

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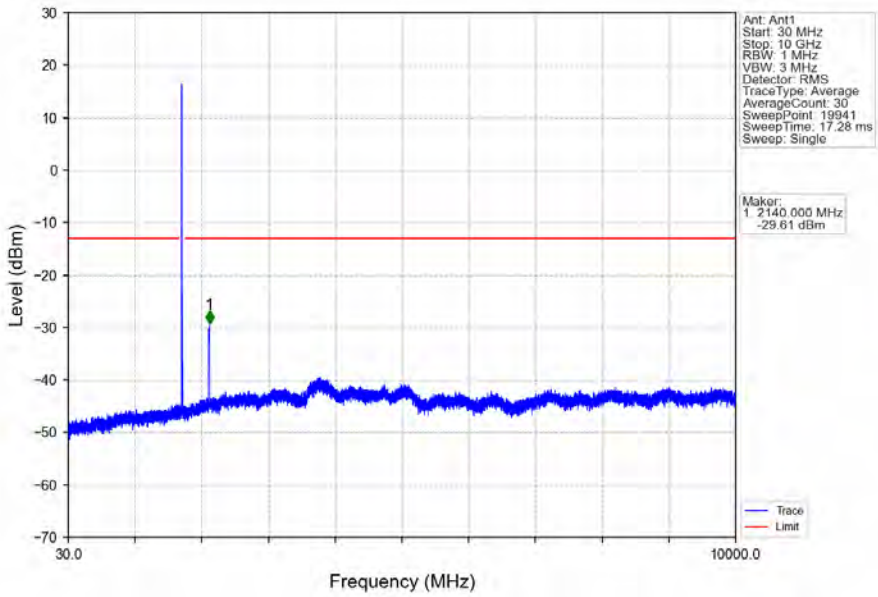

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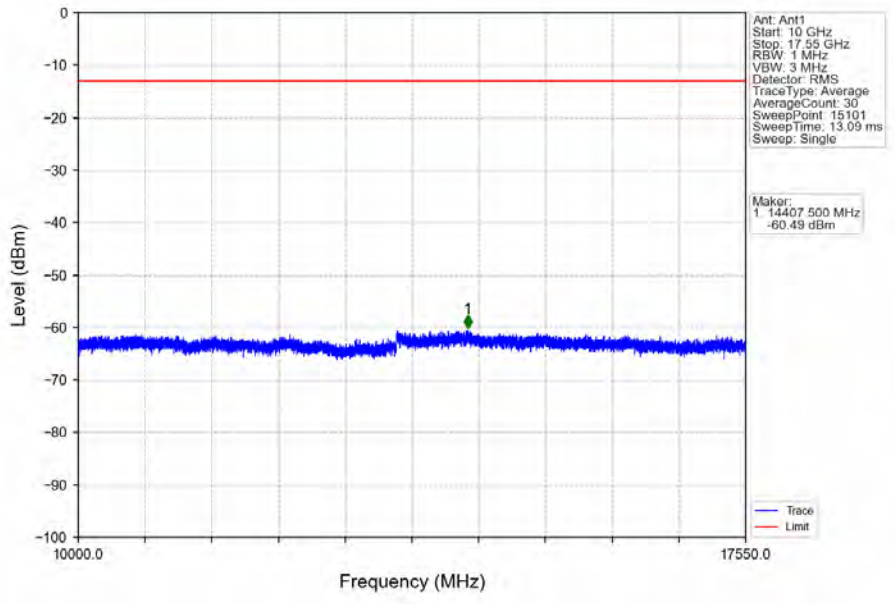

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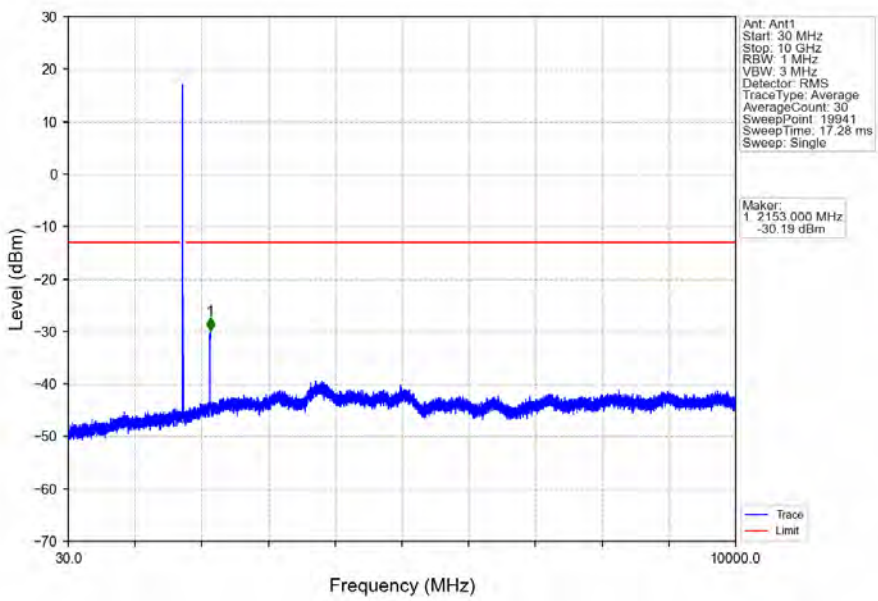

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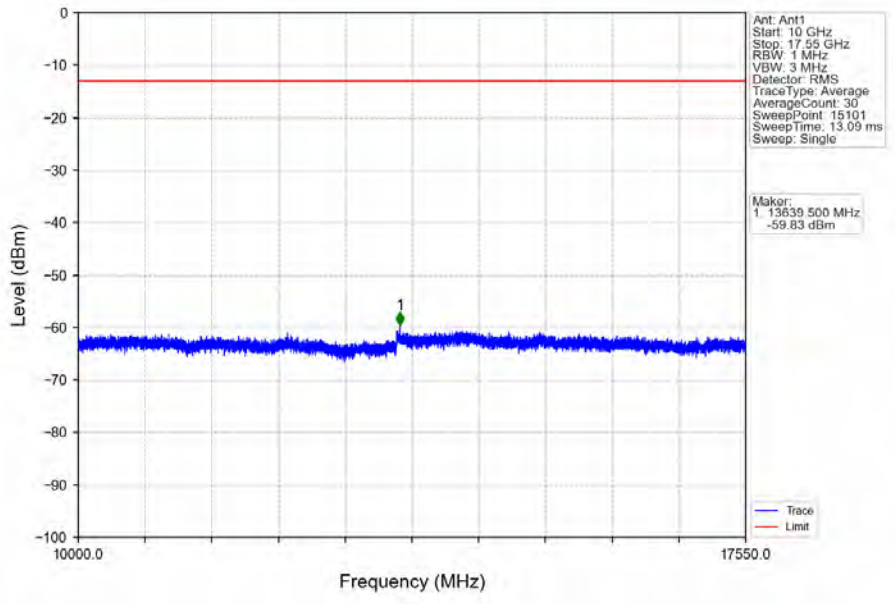

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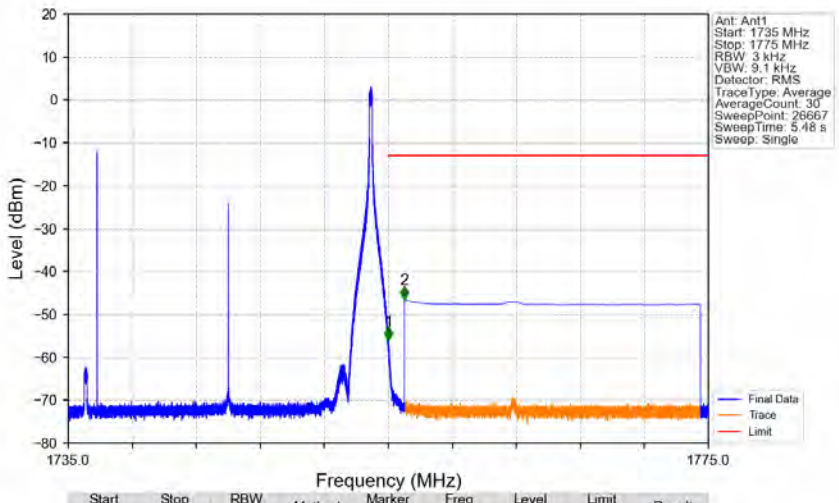

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1735	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.005	-56.01	-13	Pass
1756	1775	1	CHP	2	1756.001	-46.40	-13	Pass

Band4_20MHz_256QAM_HCH_1745MHz_RB_100_0_NTNV

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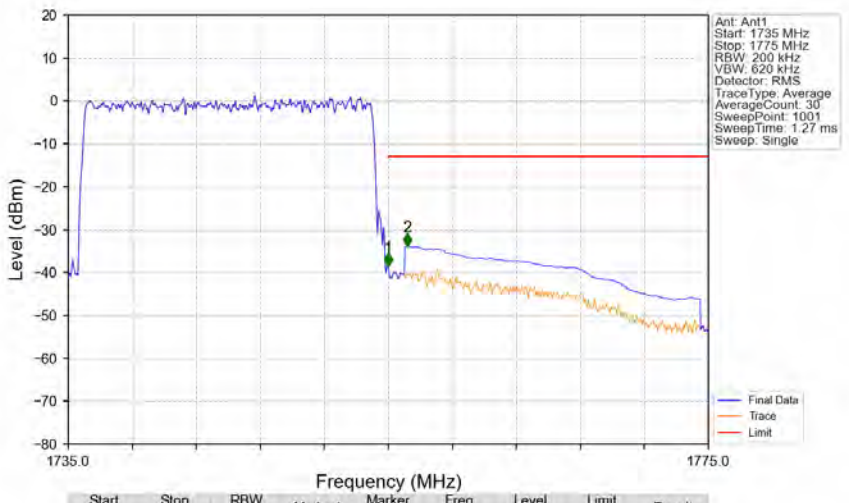

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1735	1755	0.2	/	/	/	/	/	/
1755	1756	0.2	/	1	1755.000	-38.63	-13	Pass
1756	1775	1	CHP	2	1756.200	-33.91	-13	Pass

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6. Field Strength of Spurious Radiation

LTE Band 4-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3422	-55.74	-13	-42.74	-59.7	2.96	6.92	Horizontal	Pass
5133	-51.82	-13	-38.82	-57.7	4.26	10.14	Horizontal	Pass
6844	-51.2	-13	-38.2	-57.485	4.21	10.49	Horizontal	Pass
3422	-54.78	-13	-41.78	-58.74	2.96	6.92	Vertical	Pass
5133	-51.14	-13	-38.14	-57.02	4.26	10.14	Vertical	Pass
6844	-49.69	-13	-36.69	-55.975	4.21	10.49	Vertical	Pass

LTE Band 4-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3447	-54.55	-13	-41.55	-58.51	2.96	6.92	Horizontal	Pass
5170.5	-51.9	-13	-38.9	-57.78	4.26	10.14	Horizontal	Pass
6894	-49.91	-13	-36.91	-56.195	4.21	10.49	Horizontal	Pass
3447	-54.09	-13	-41.09	-58.05	2.96	6.92	Vertical	Pass
5170.5	-52.43	-13	-39.43	-58.31	4.26	10.14	Vertical	Pass
6894	-49.88	-13	-36.88	-56.165	4.21	10.49	Vertical	Pass

LTE Band 4-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3472	-55.99	-13	-42.99	-59.95	2.96	6.92	Horizontal	Pass
5208	-52.14	-13	-39.14	-58.02	4.26	10.14	Horizontal	Pass
6944	-49.08	-13	-36.08	-55.365	4.21	10.49	Horizontal	Pass
3472	-55.72	-13	-42.72	-59.68	2.96	6.92	Vertical	Pass
5208	-52.65	-13	-39.65	-58.53	4.26	10.14	Vertical	Pass
6944	-49.83	-13	-36.83	-56.115	4.21	10.49	Vertical	Pass

---End of Attachment---

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