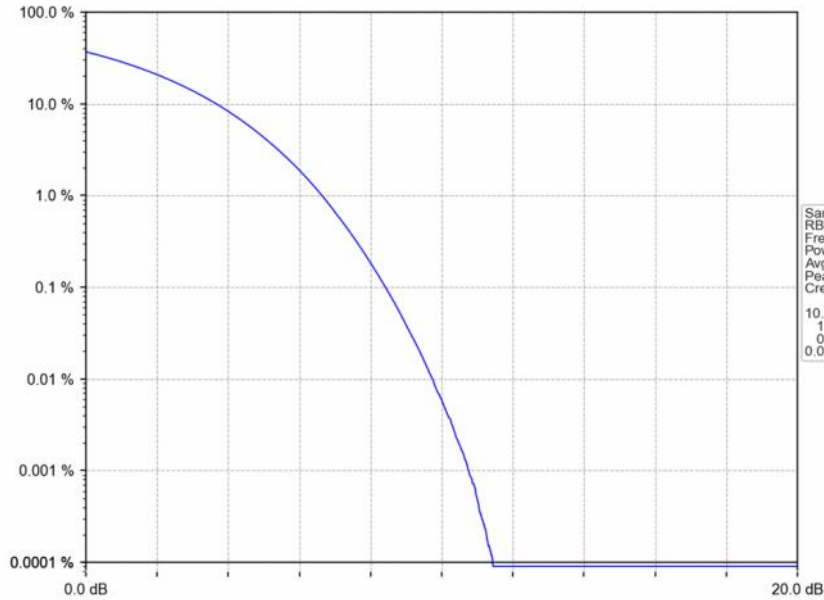


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Band42a_20MHz_256QAM_HCH_3540MHz_RB_100_0_NTNV



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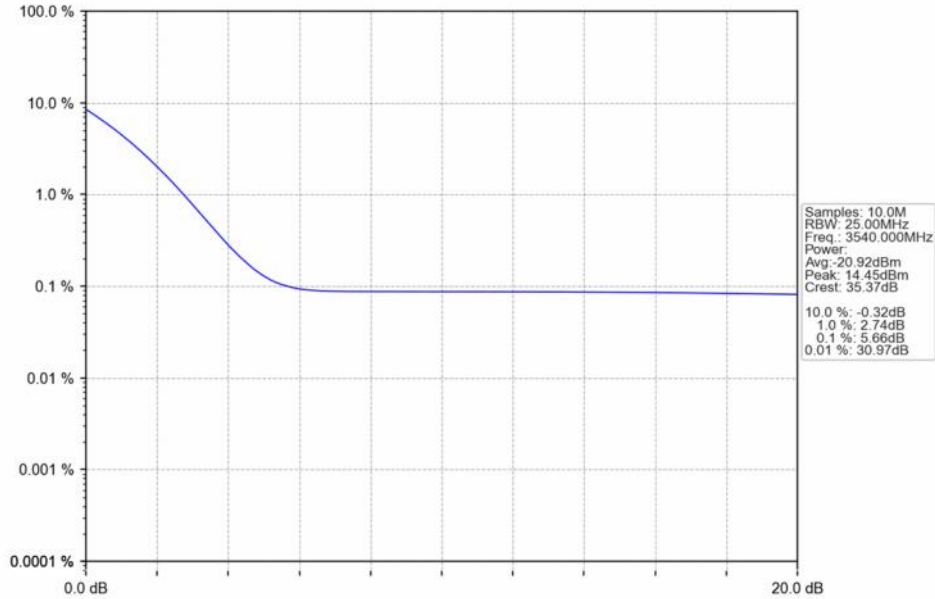
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5. Spurious Emission & Band Edges

5.1 B42a_5MHz

5.1.1 Test Result

Band: 42a / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	3452.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	3500	1	0	Refer To Test Graph	Pass
	3547.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass



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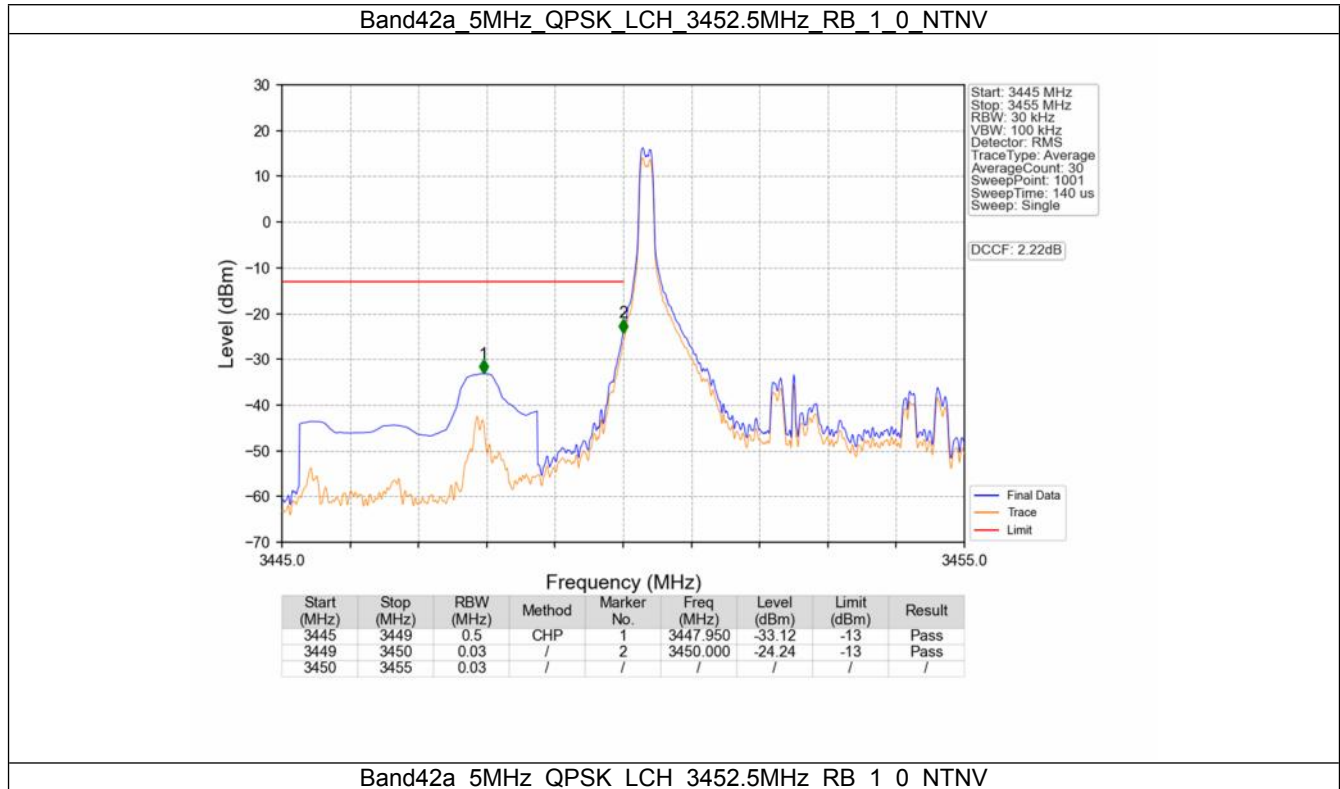
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5.1.2 Test Graph



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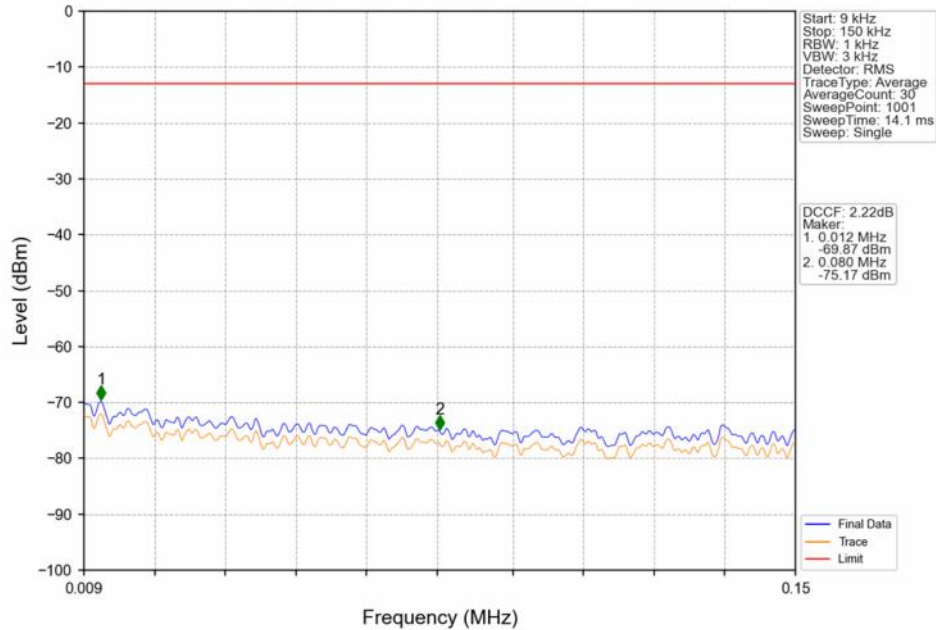
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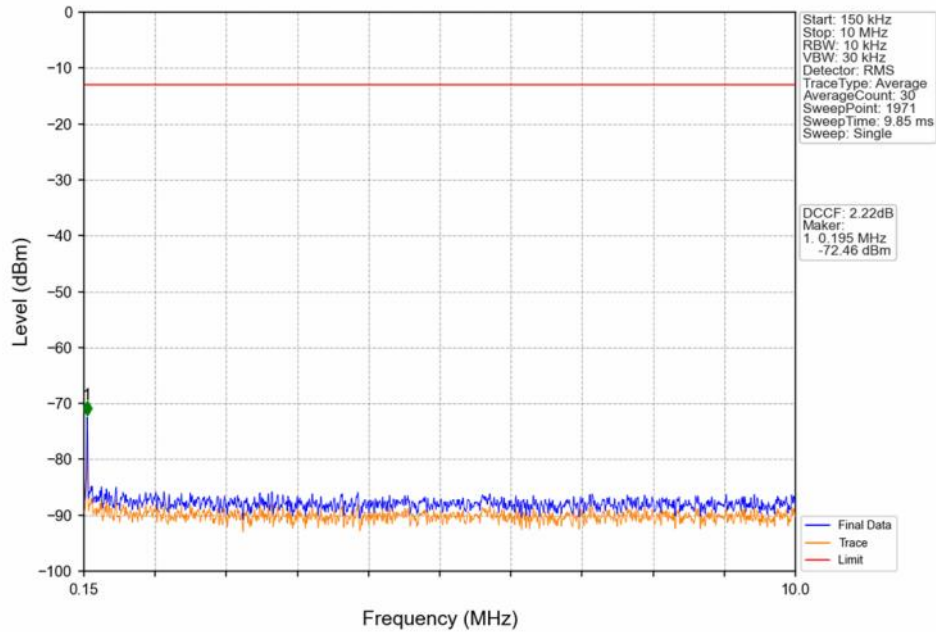
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Band42a_5MHz_QPSK_LCH_3452.5MHz_RB_1_0_NTNV



Band42a_5MHz_QPSK_LCH_3452.5MHz_RB_1_0_NTNV



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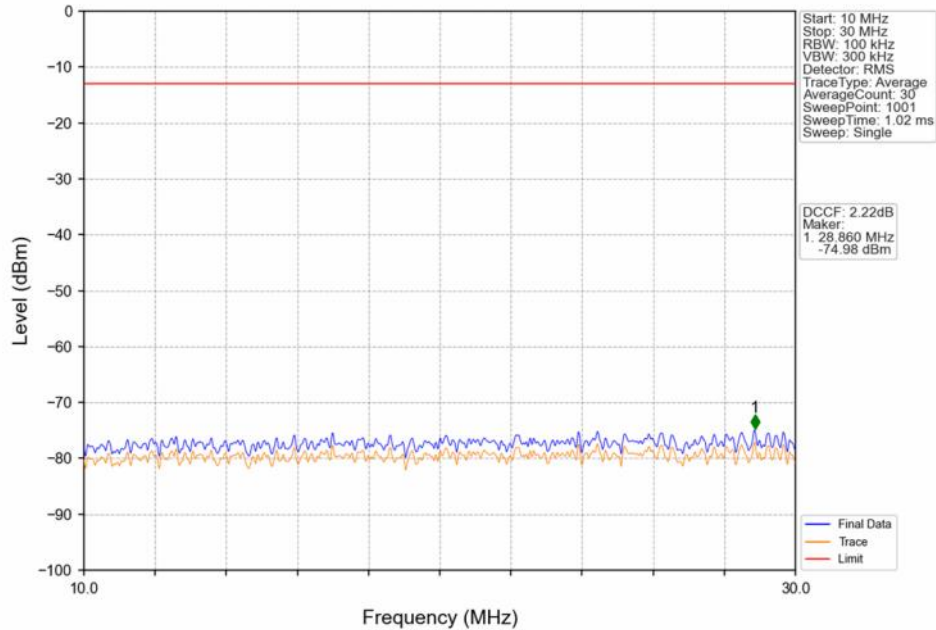
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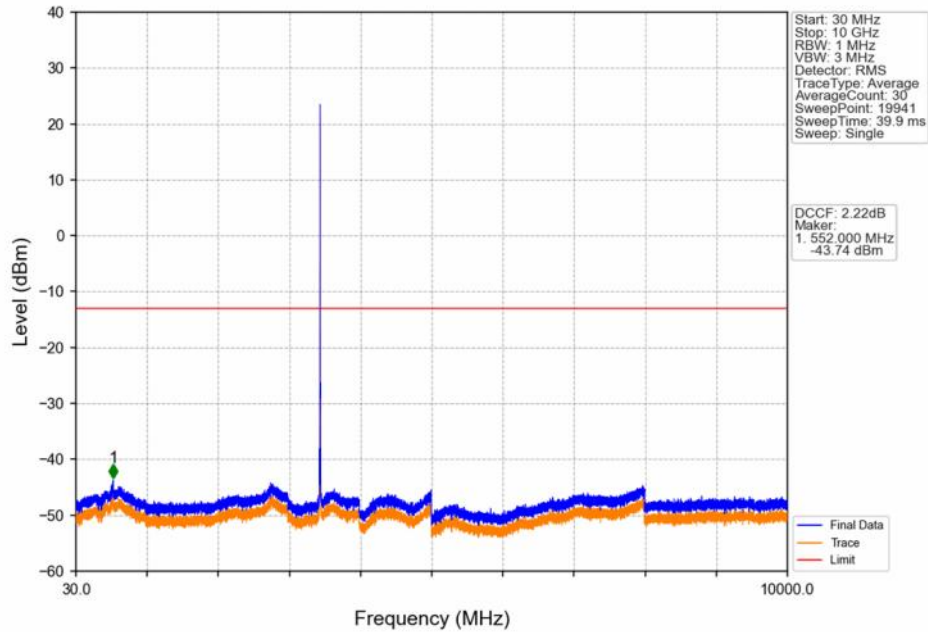
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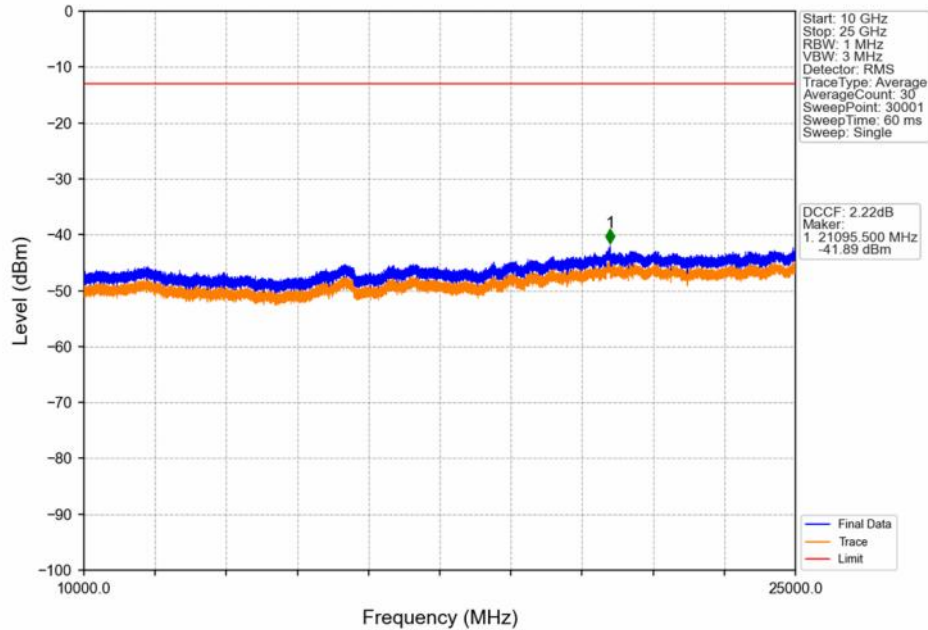
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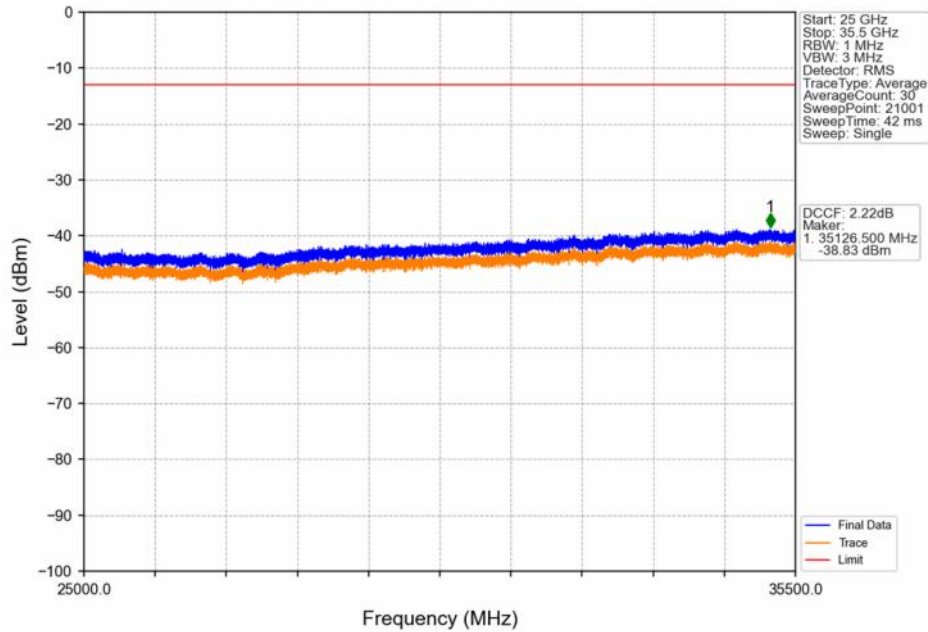
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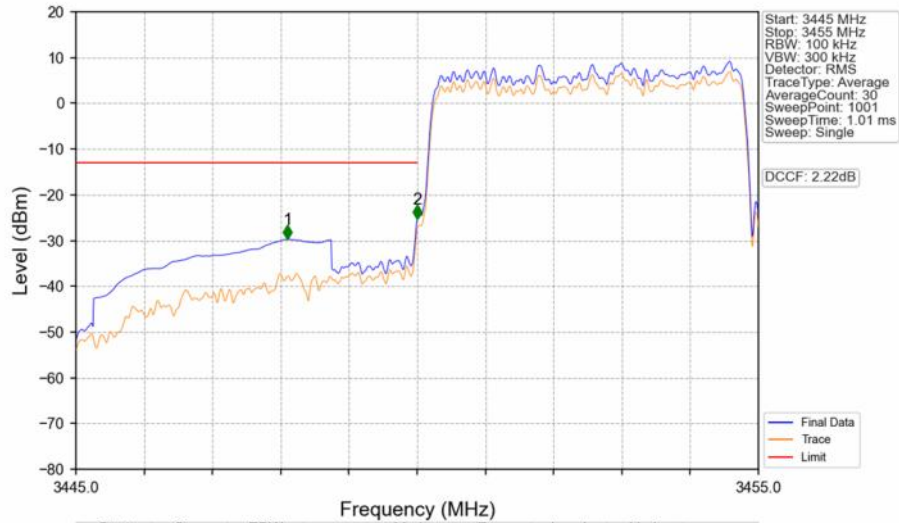
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3445	3449	0.5	CHP	1	3448.100	-29.76	-13	Pass
3449	3450	0.1	/	2	3450.000	-25.28	-13	Pass
3450	3455	0.1	/	/	/	/	/	/



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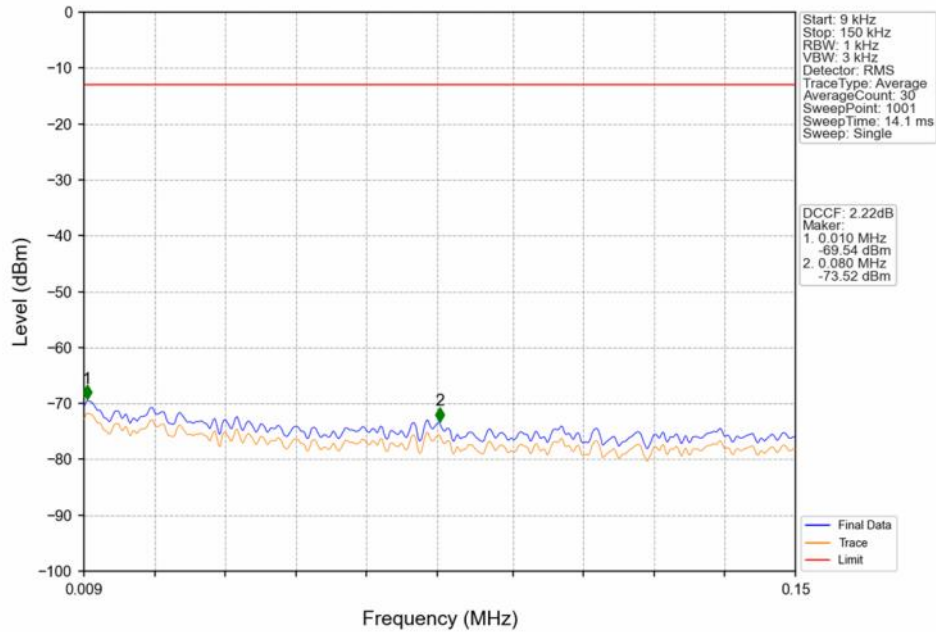
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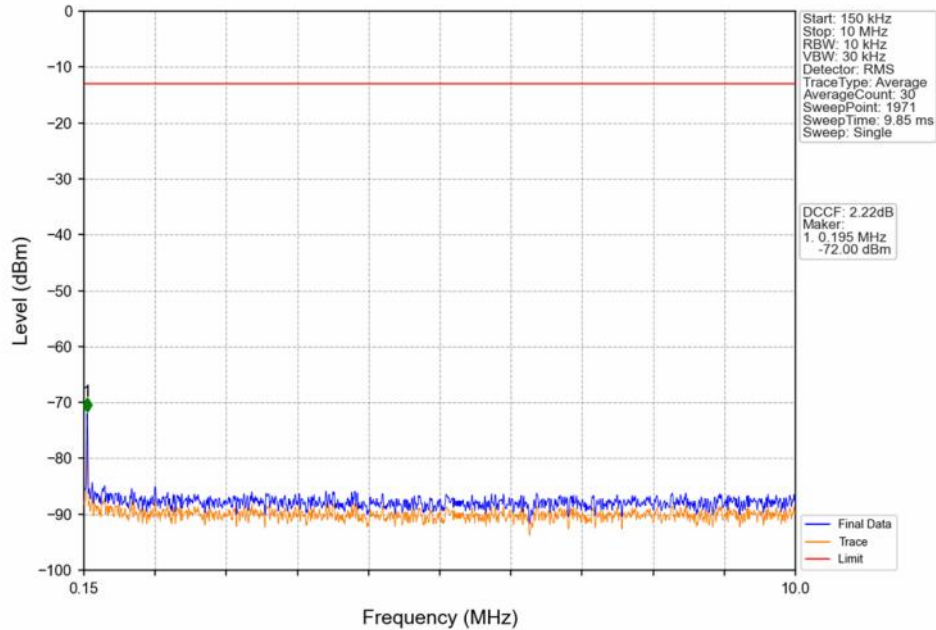
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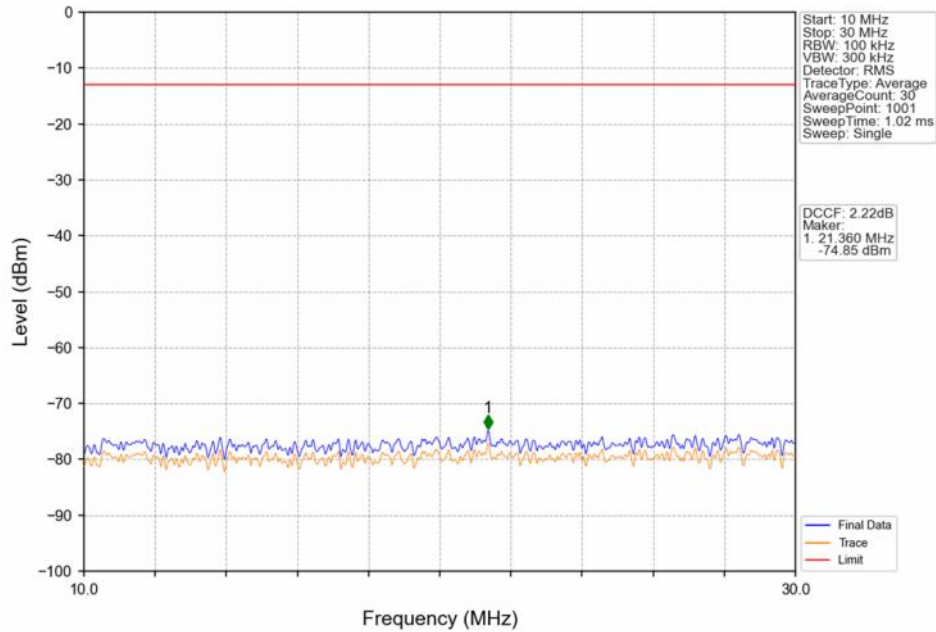
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Band42a_5MHz_QPSK_MCH_3500MHz_RB_1_0_NTNV



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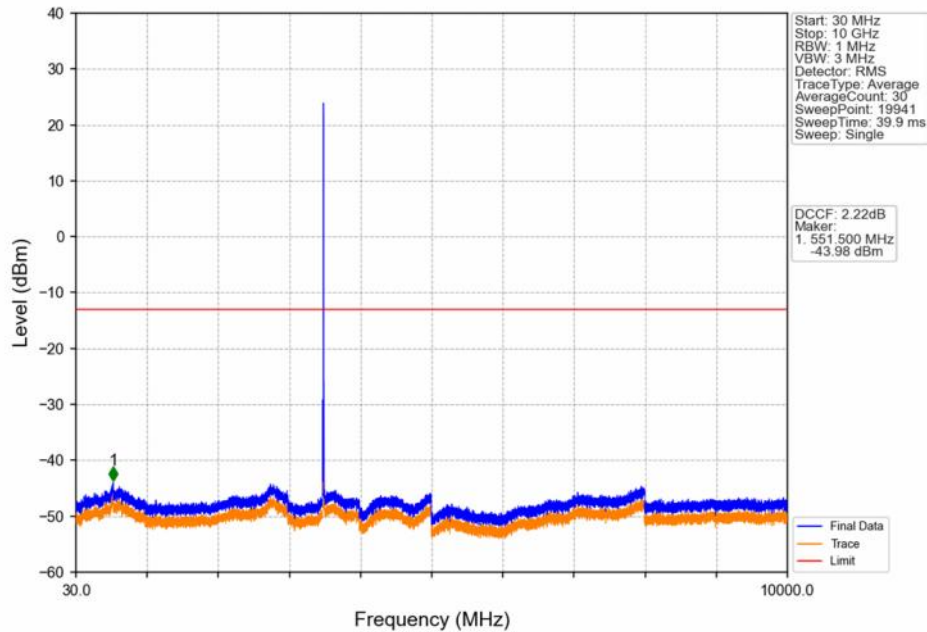
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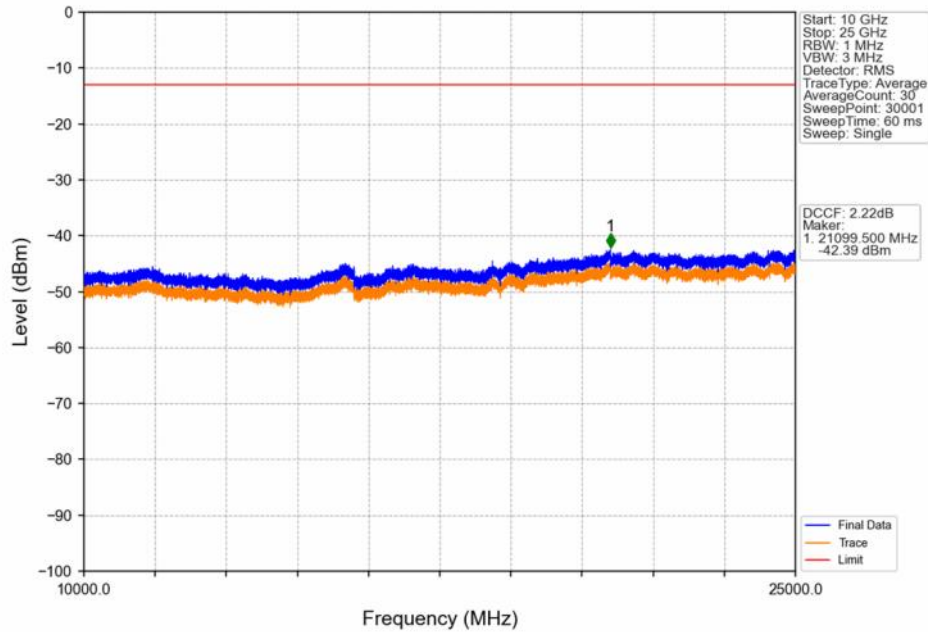
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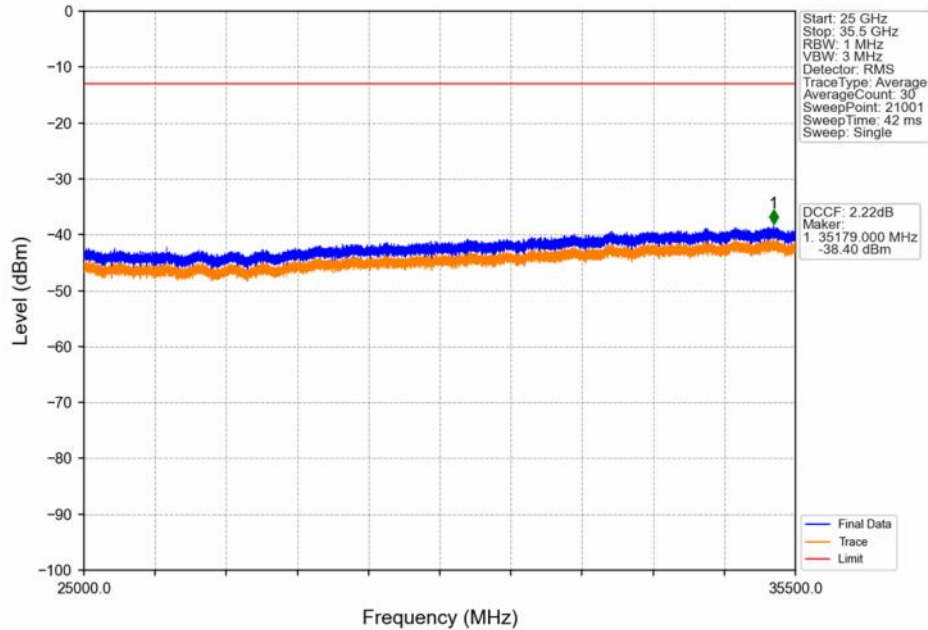
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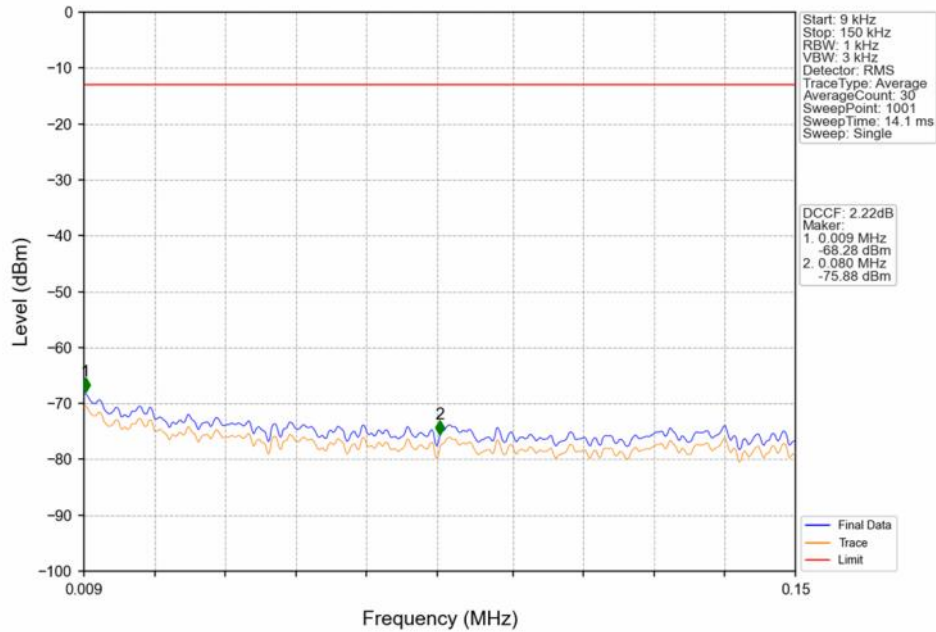
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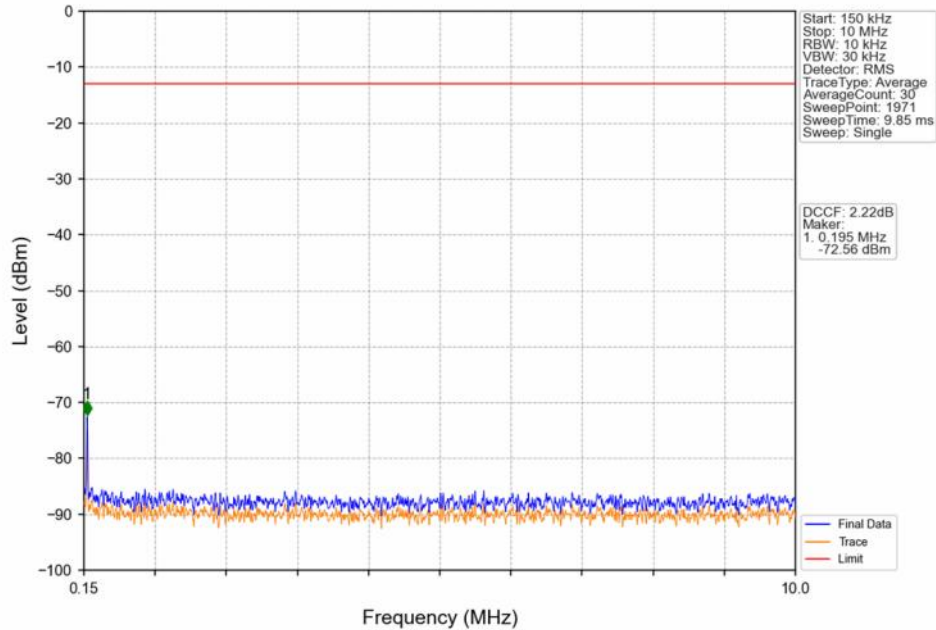
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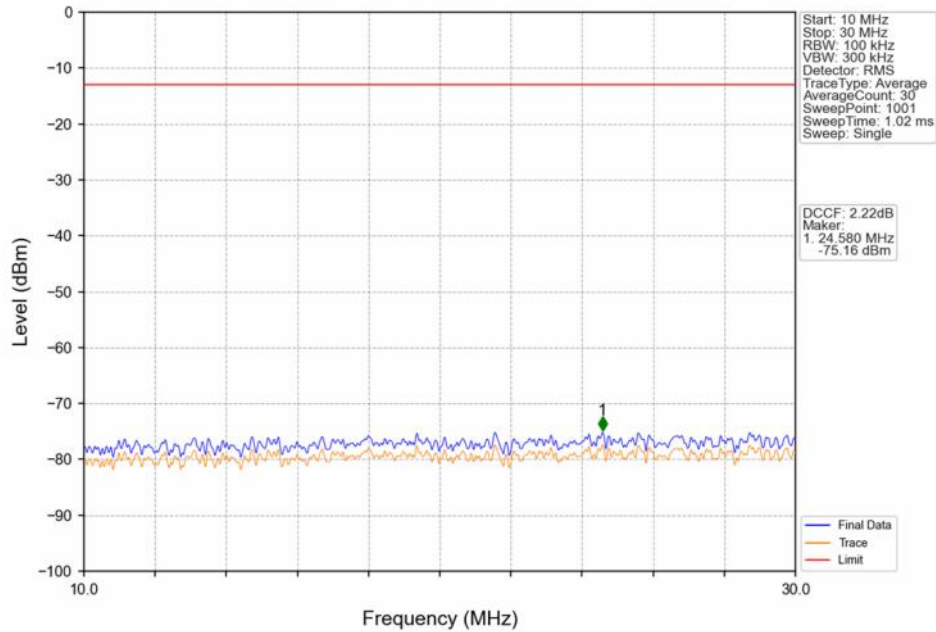
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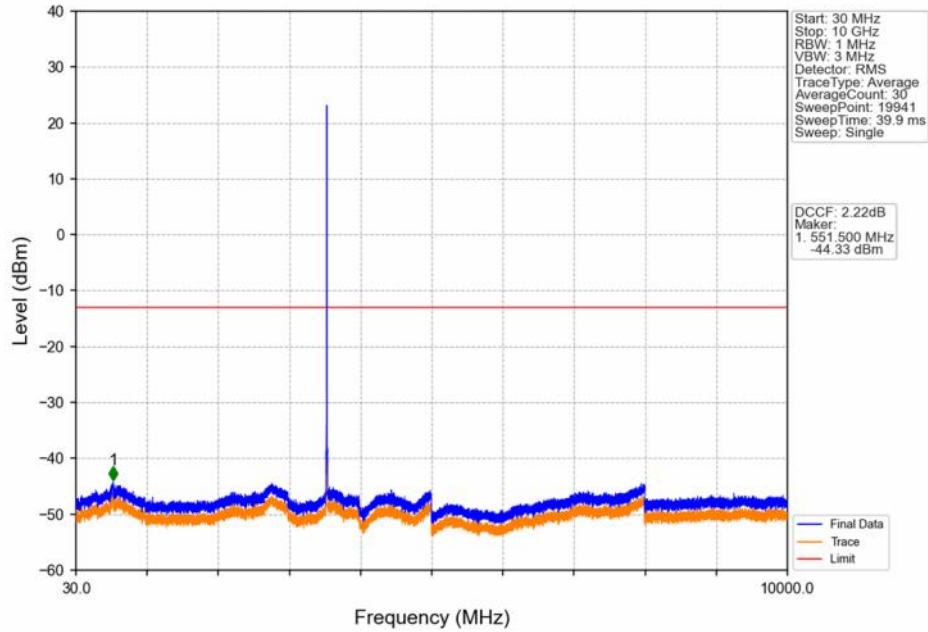
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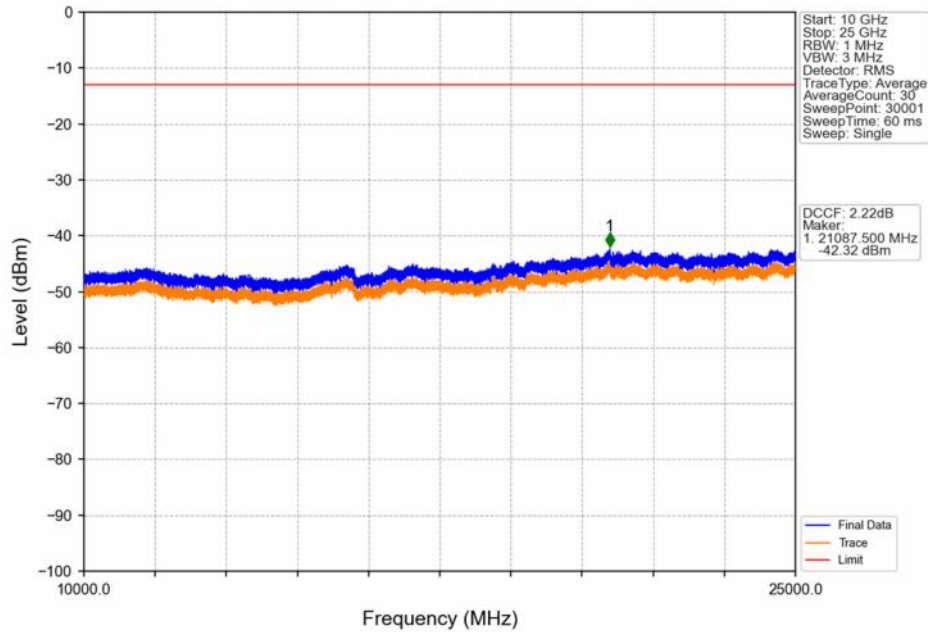
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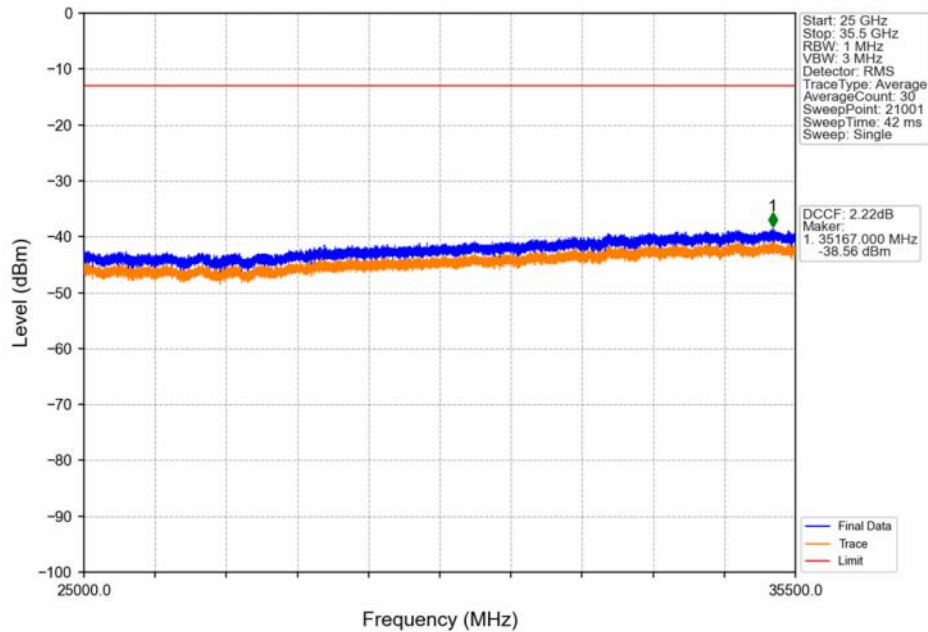
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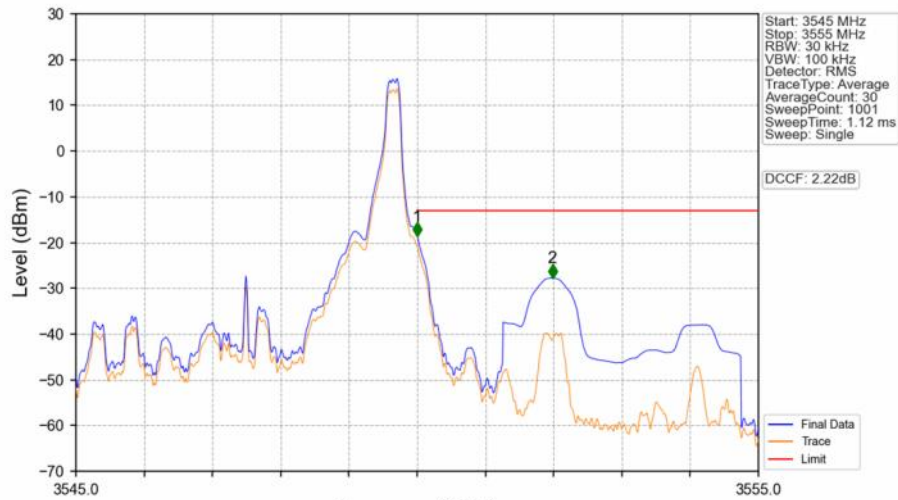
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3545	3550	0.03	/	/	/	/	/	/
3550	3551	0.03	/	1	3550.000	-18.67	-13	Pass
3551	3555	0.5	CHP	2	3551.980	-27.77	-13	Pass

Band42a_5MHz_QPSK_HCH_3547.5MHz_RB_25_0_NTNV



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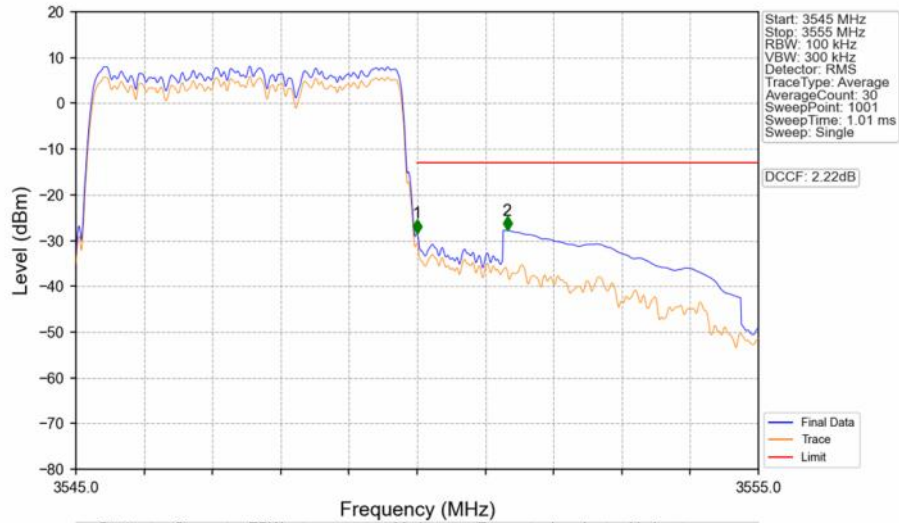
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3545	3550	0.1	/	/	/	/	/	/
3550	3551	0.1	/	1	3550.000	-28.44	-13	Pass
3551	3555	0.5	CHP	2	3551.320	-27.77	-13	Pass



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5.2 B42a_10MHz

5.2.1 Test Result

Band: 42a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3455	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	3500	1	0	Refer To Test Graph		Pass
	3545	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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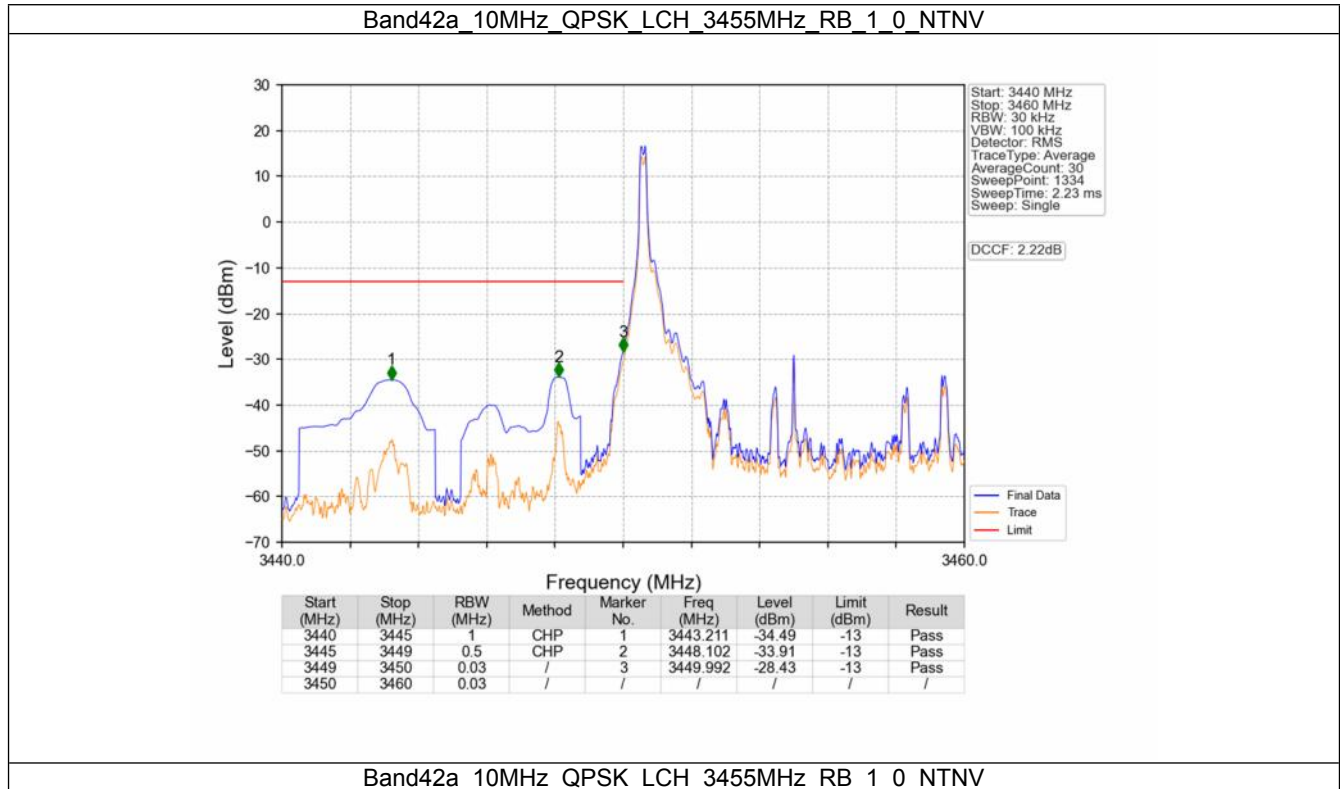
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5.2.2 Test Graph



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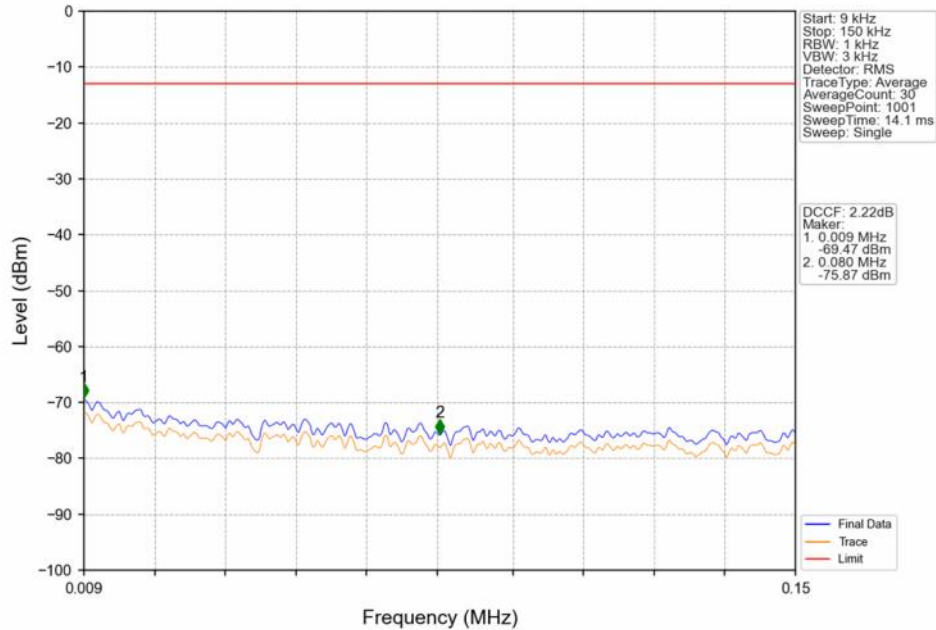
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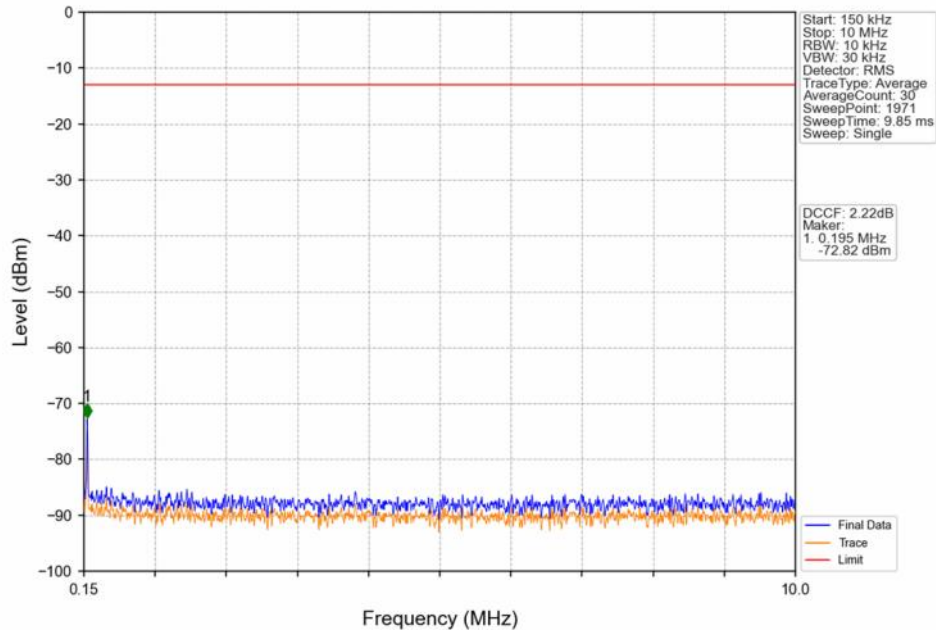
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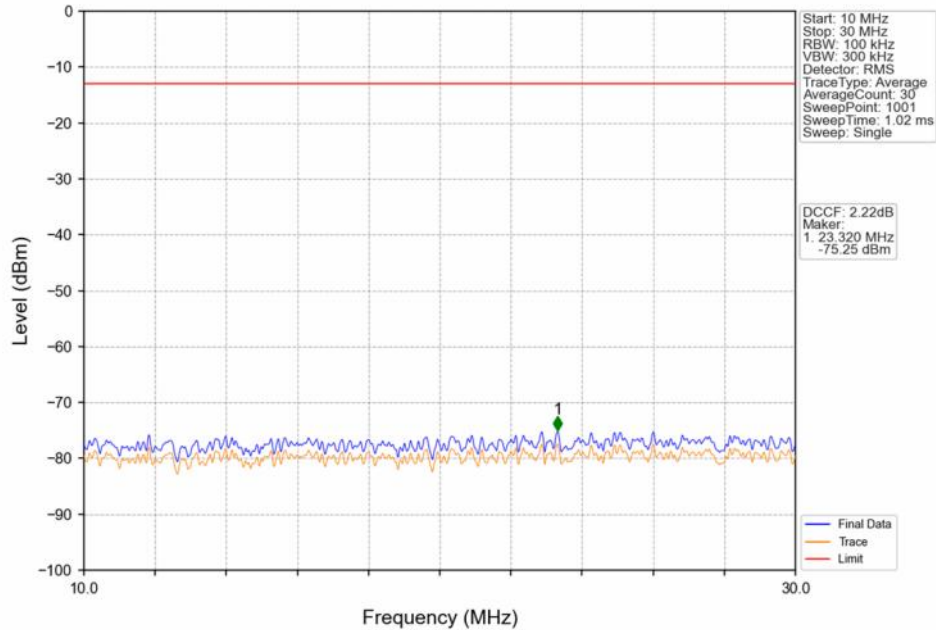
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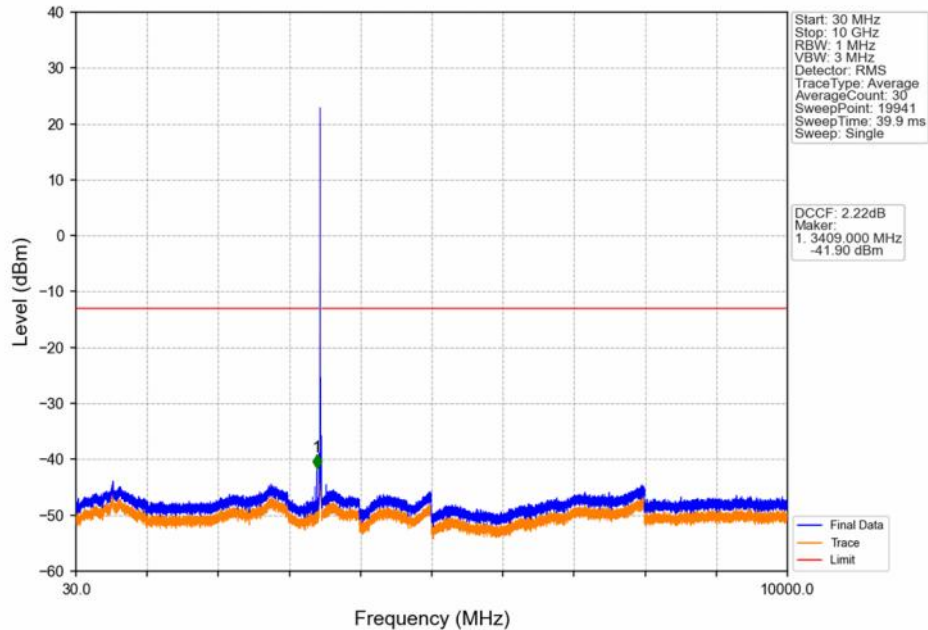
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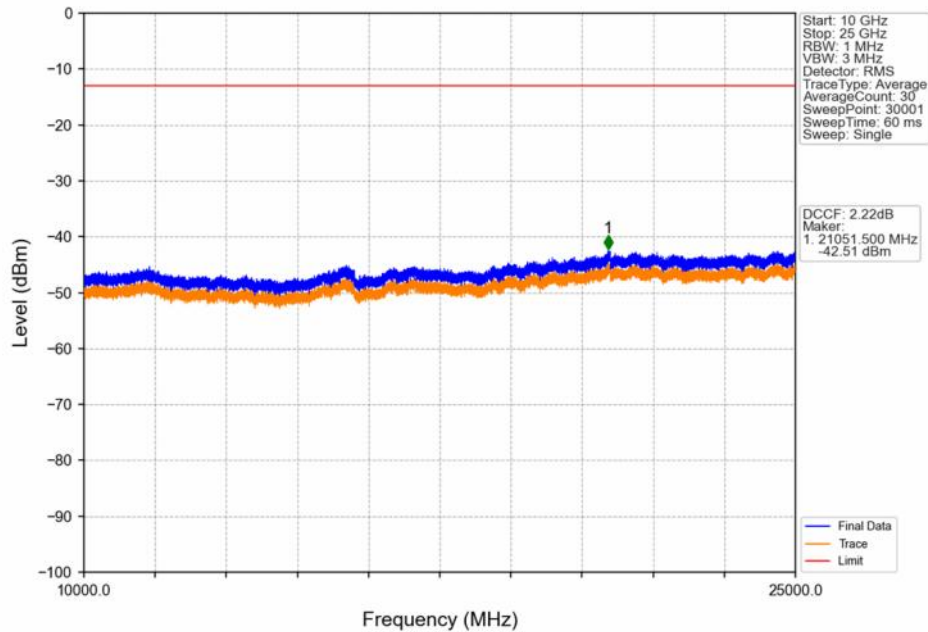
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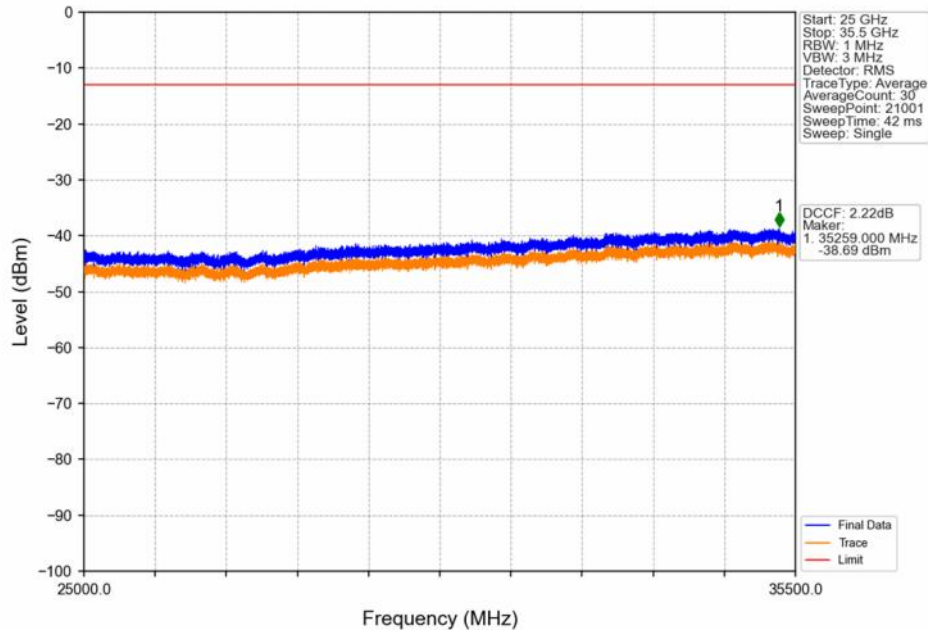
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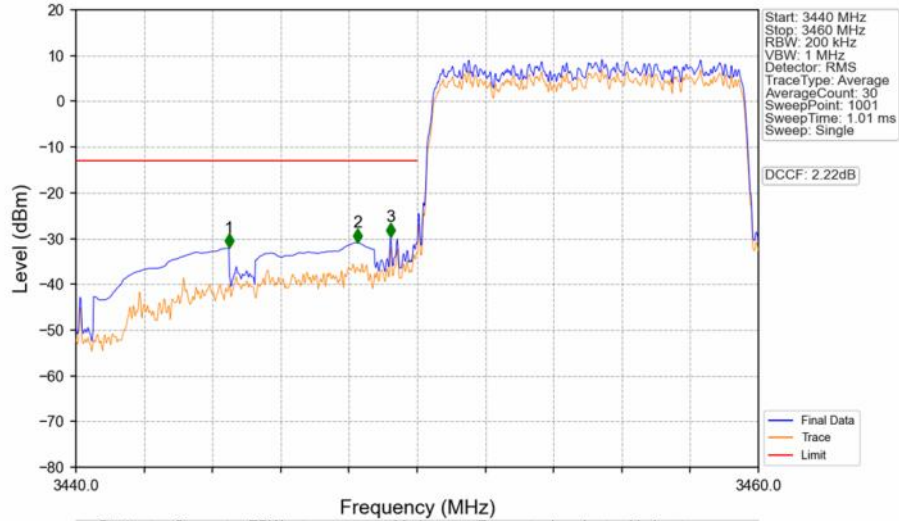
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3440	3445	1	CHP	1	3444.480	-32.09	-13	Pass
3445	3449	0.5	CHP	2	3448.260	-30.88	-13	Pass
3449	3450	0.2	/	3	3449.220	-29.66	-13	Pass
3450	3460	0.2	/	/	/	/	/	/



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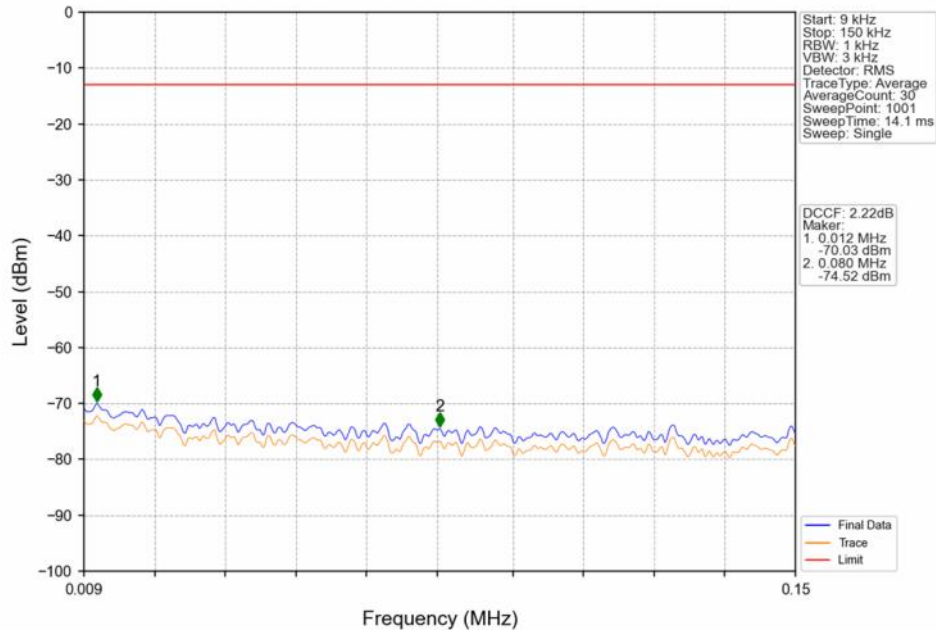
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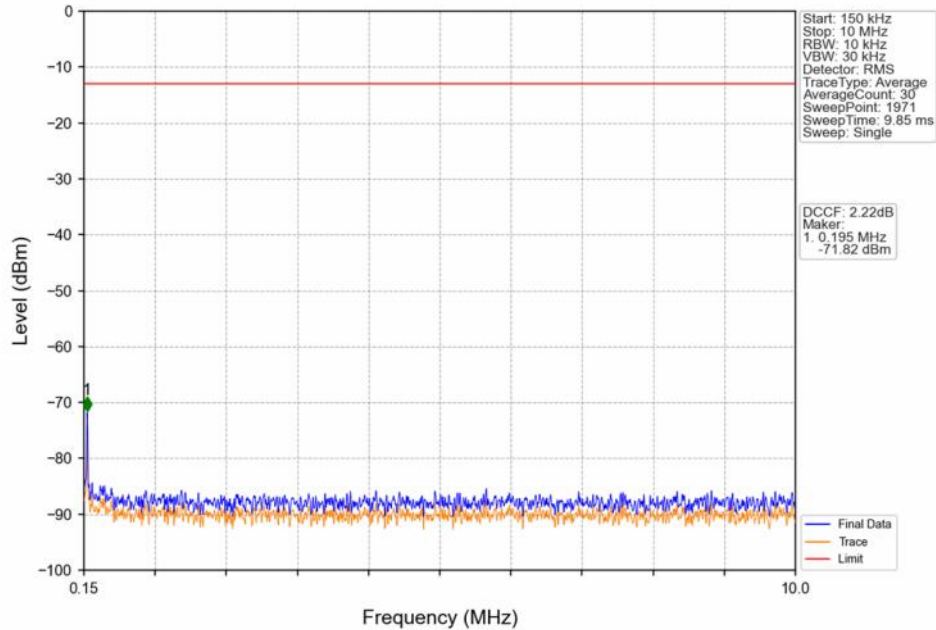
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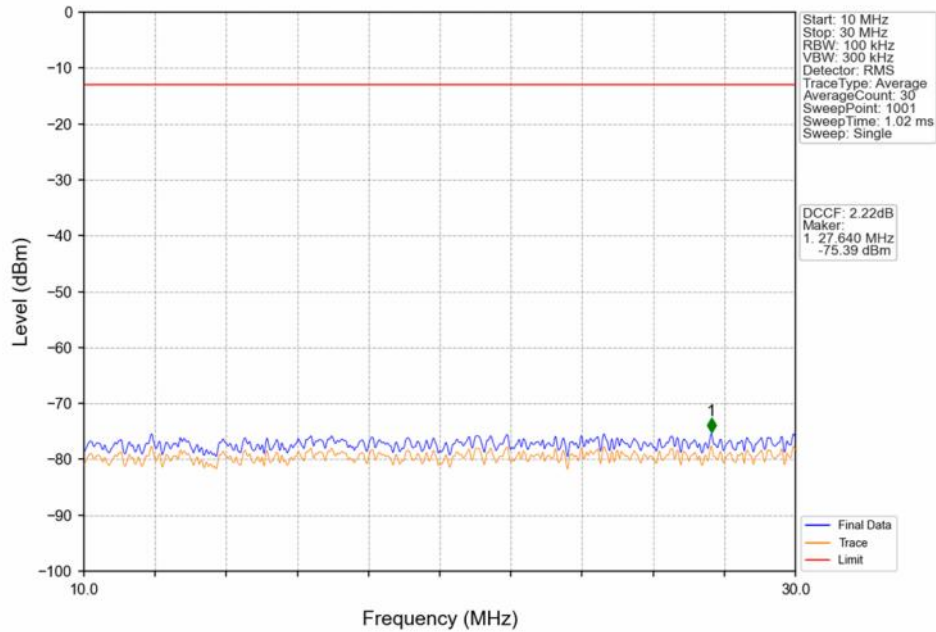
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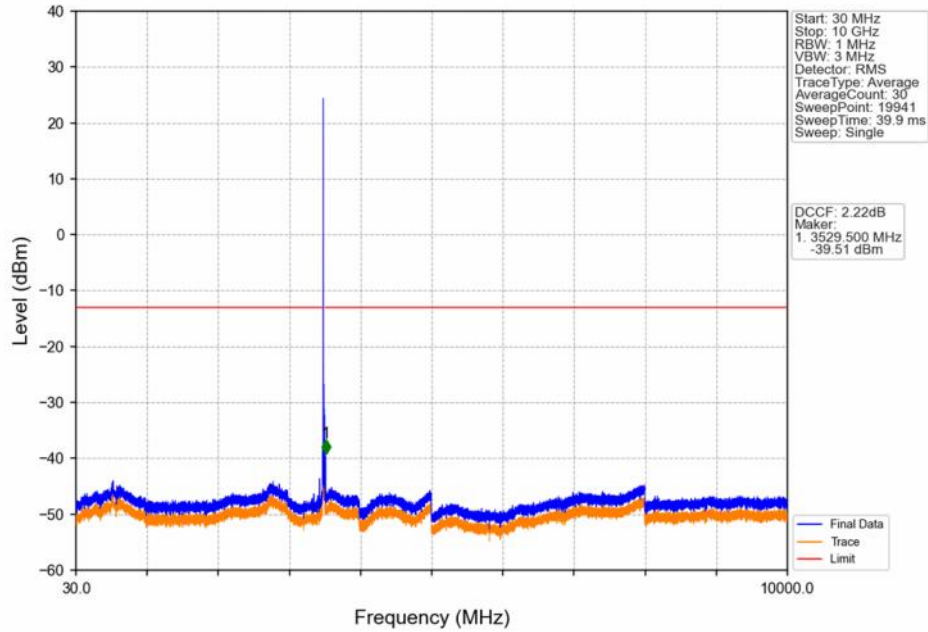
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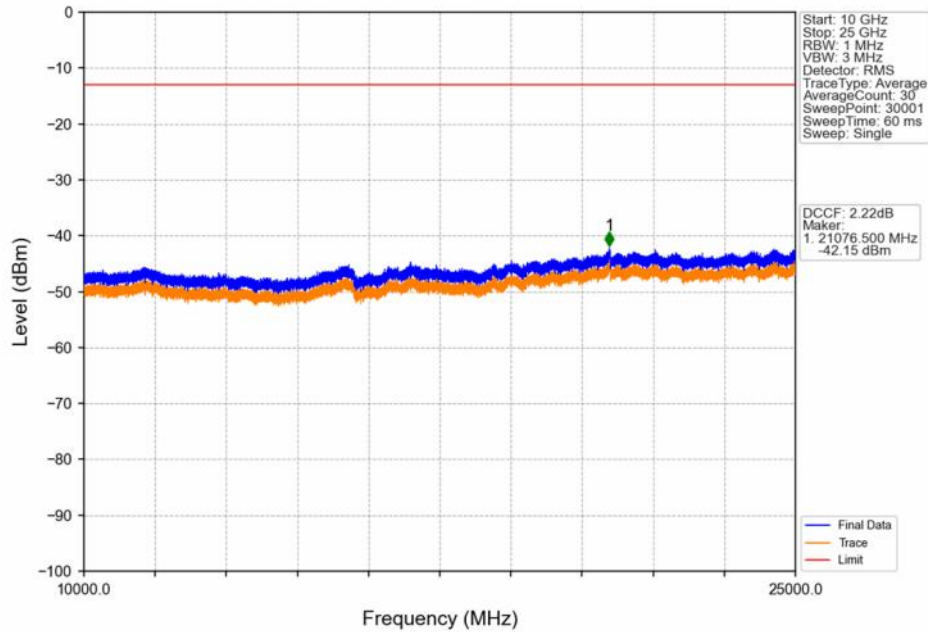
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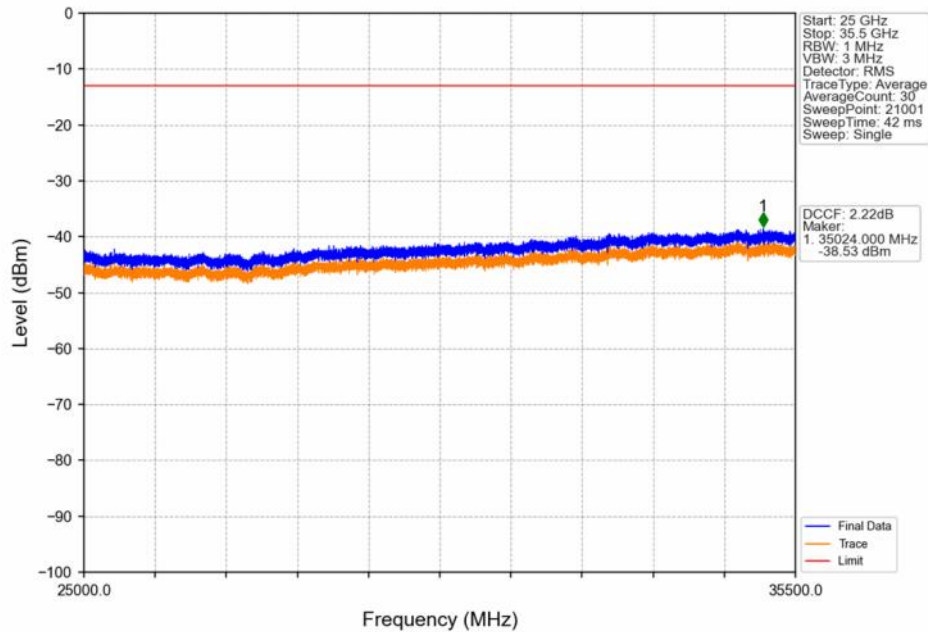
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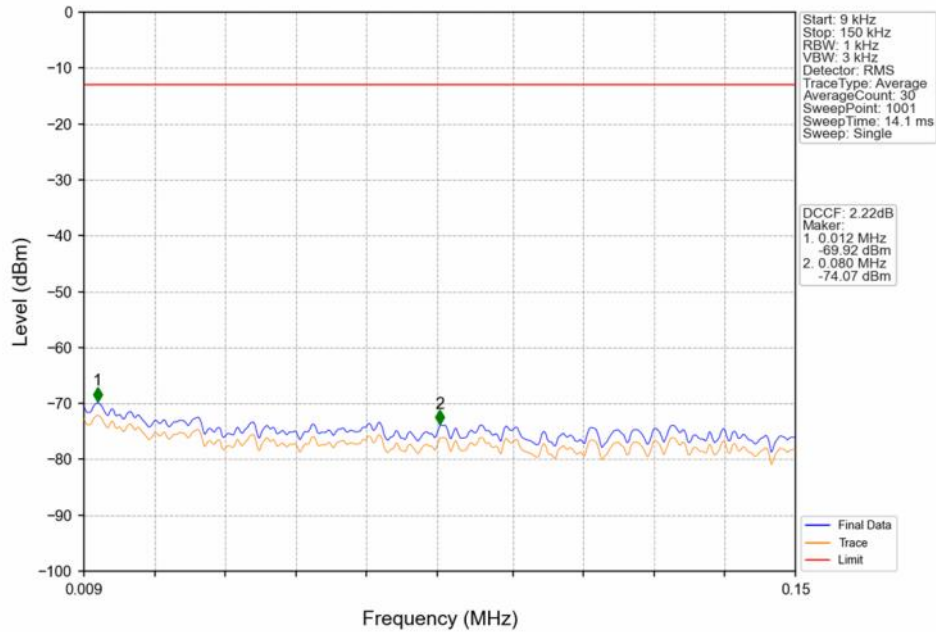
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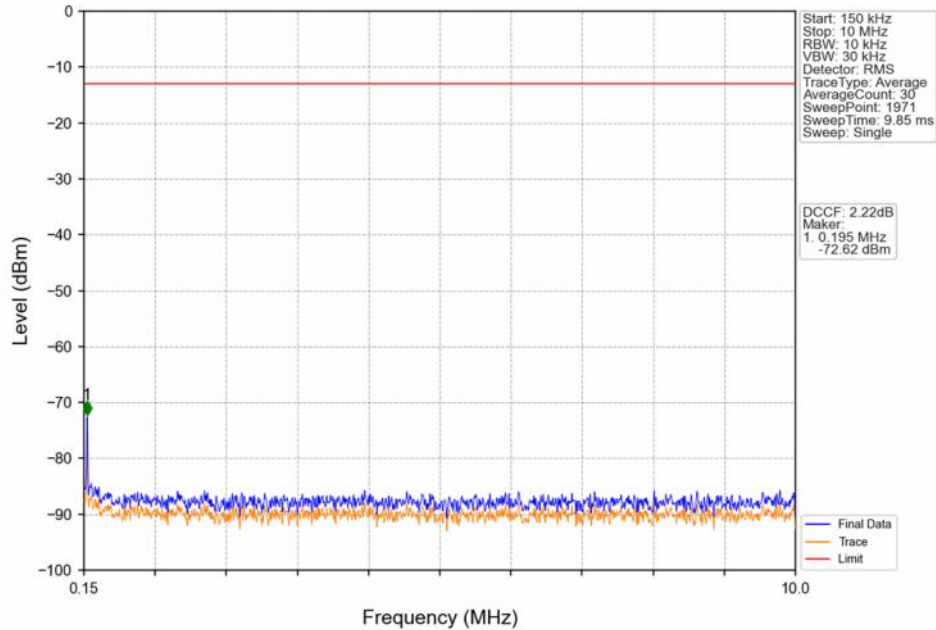
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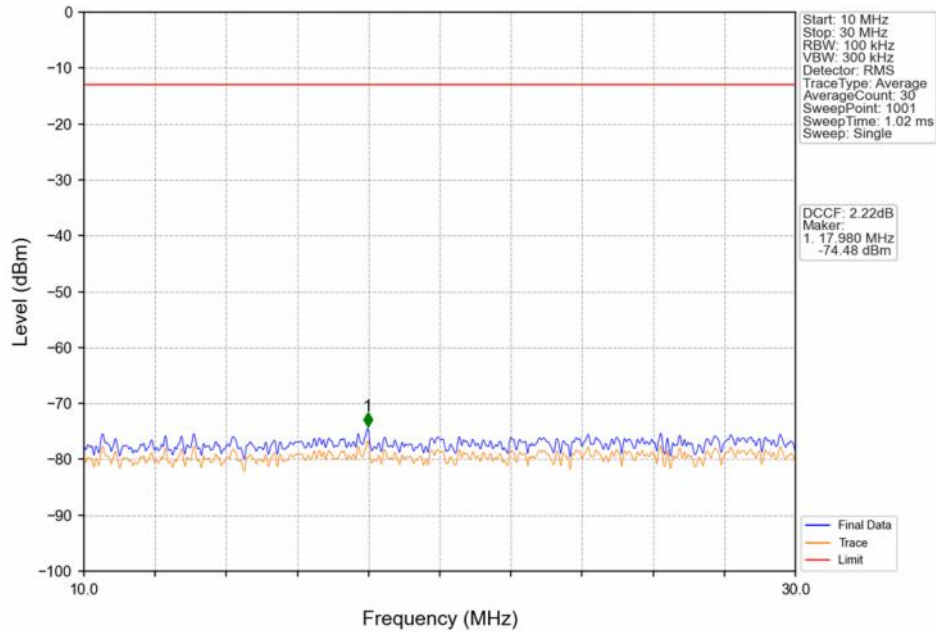
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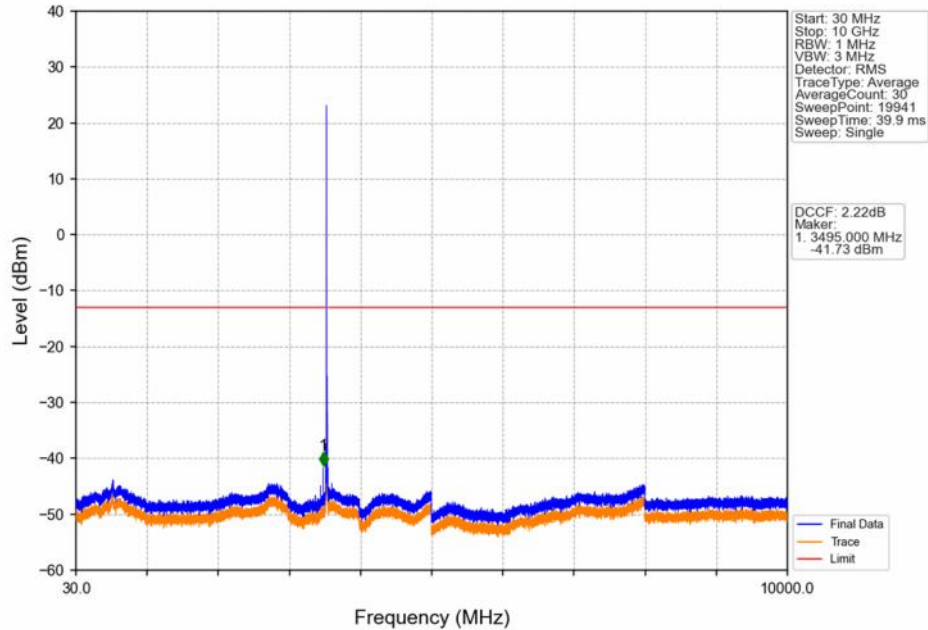
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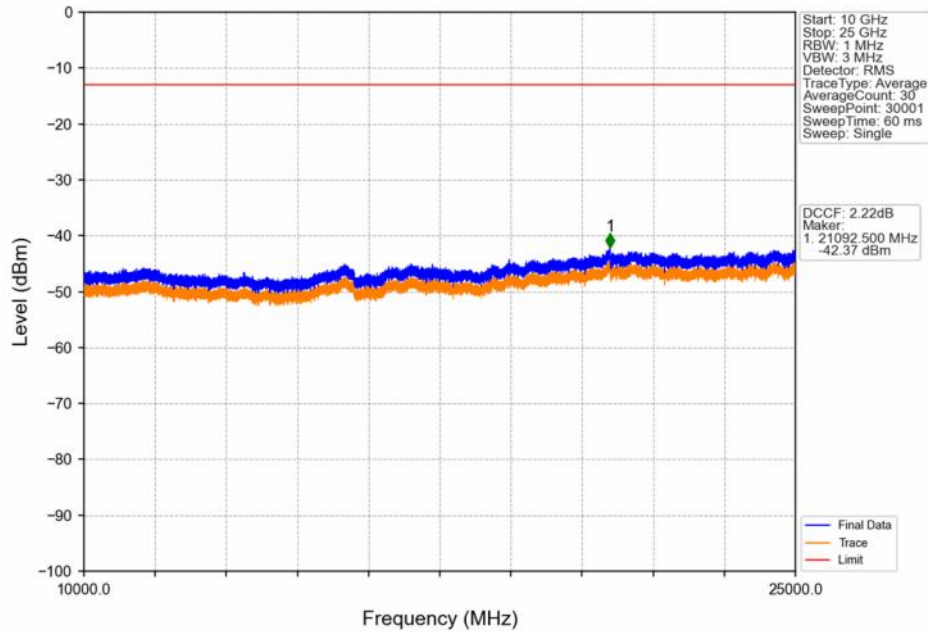
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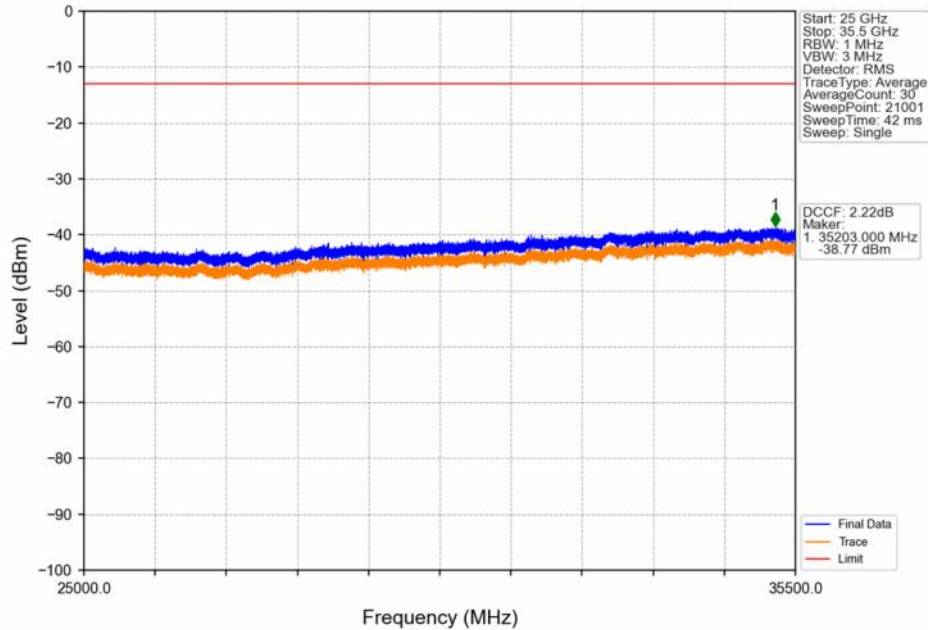
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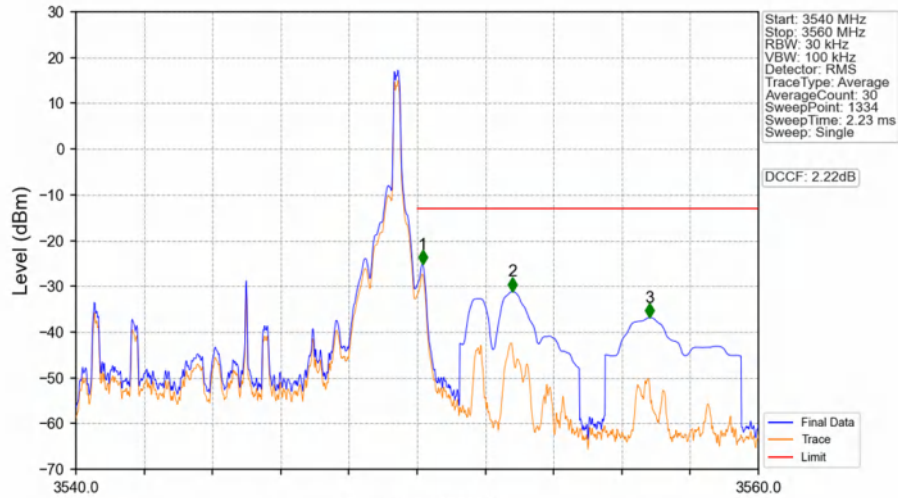
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Band42a_10MHz_QPSK_HCH_3545MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3540	3550	0.03	/	/	/	/	/	/
3550	3551	0.03	/	1	3550.158	-25.18	-13	Pass
3551	3555	0.5	CHP	2	3552.798	-31.11	-13	Pass
3555	3560	1	CHP	3	3556.819	-36.85	-13	Pass

Band42a_10MHz_QPSK_HCH_3545MHz_RB_50_0_NTNV



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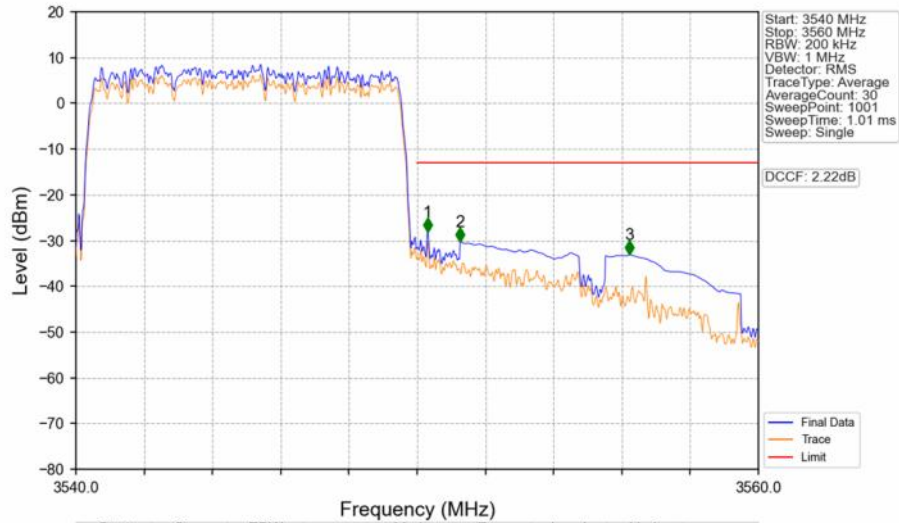
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3540	3550	0.2	/	/	/	/	/	/
3550	3551	0.2	/	1	3550.300	-28.15	-13	Pass
3551	3555	0.5	CHP	2	3551.260	-30.21	-13	Pass
3555	3560	1	CHP	3	3556.220	-33.04	-13	Pass



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5.3 B42a_15MHz

5.3.1 Test Result

Band: 42a / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3457.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	3500	1	0	Refer To Test Graph		Pass
	3542.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass



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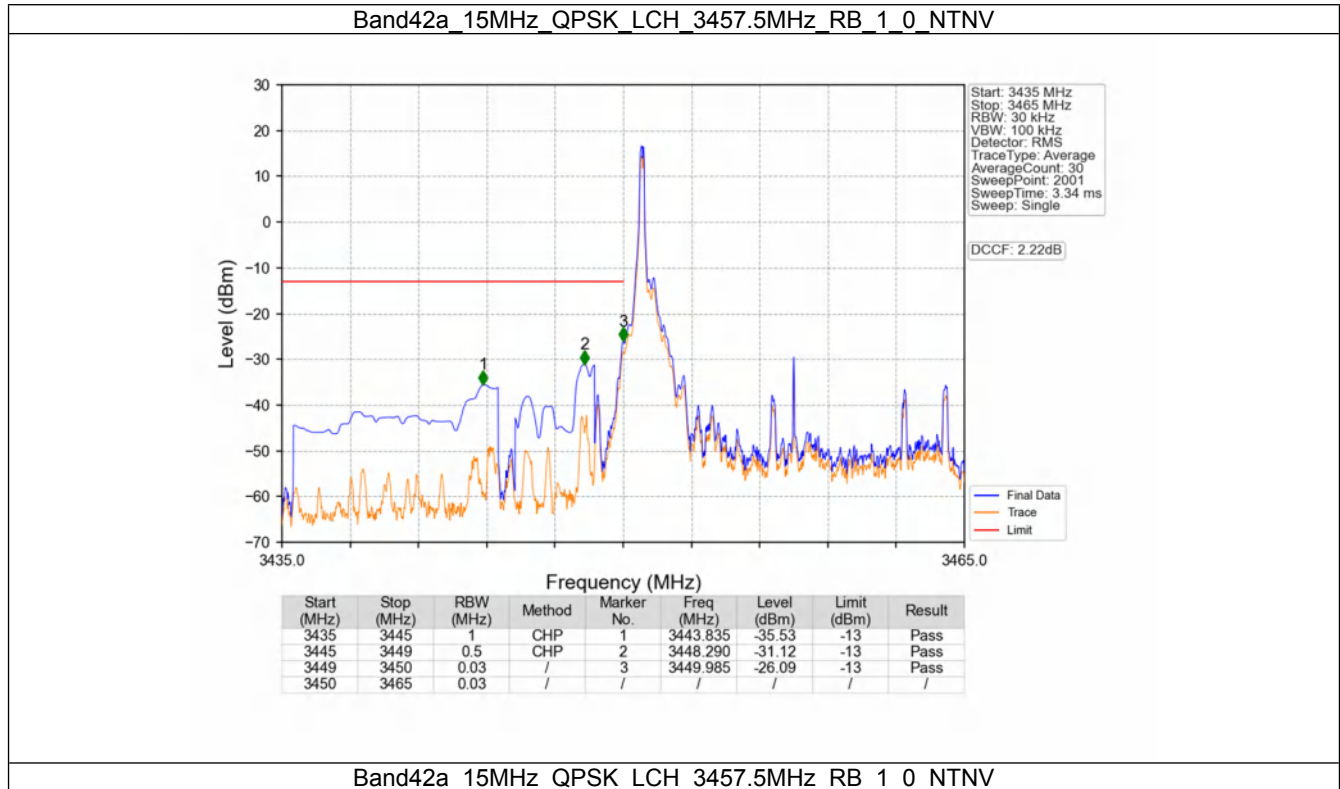
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5.3.2 Test Graph



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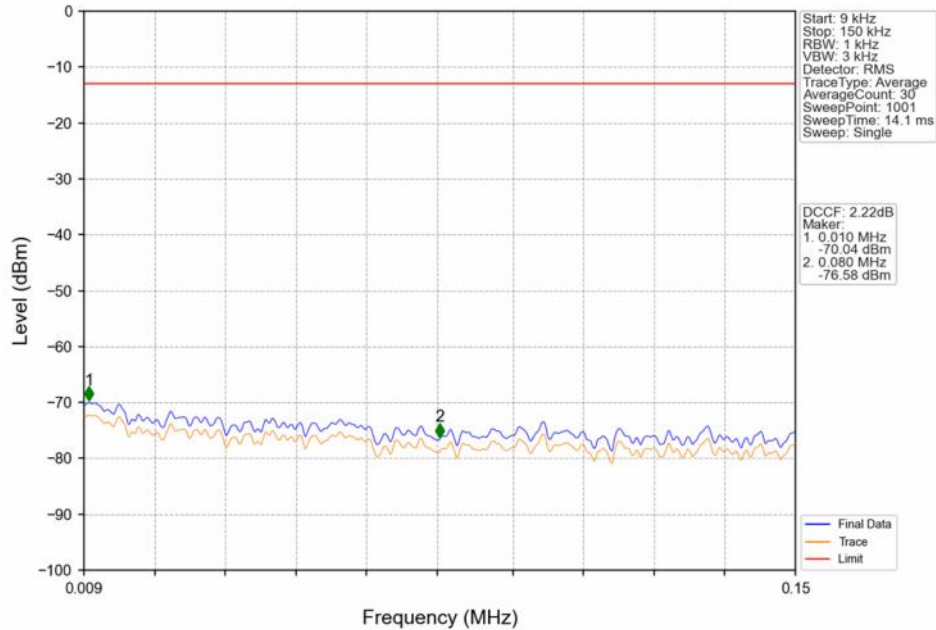
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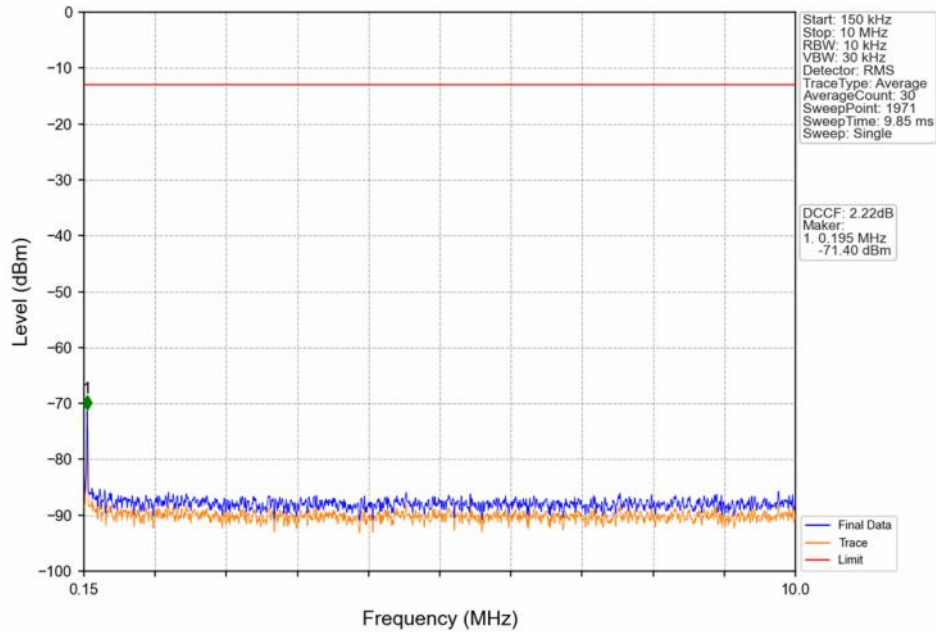
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Band42a_15MHz_QPSK_LCH_3457.5MHz_RB_1_0_NTNV



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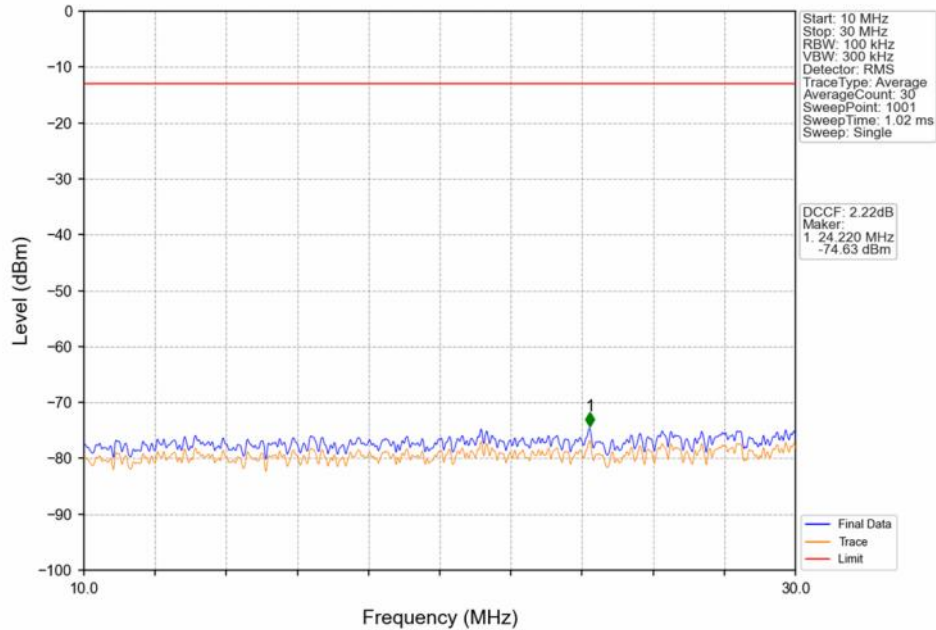
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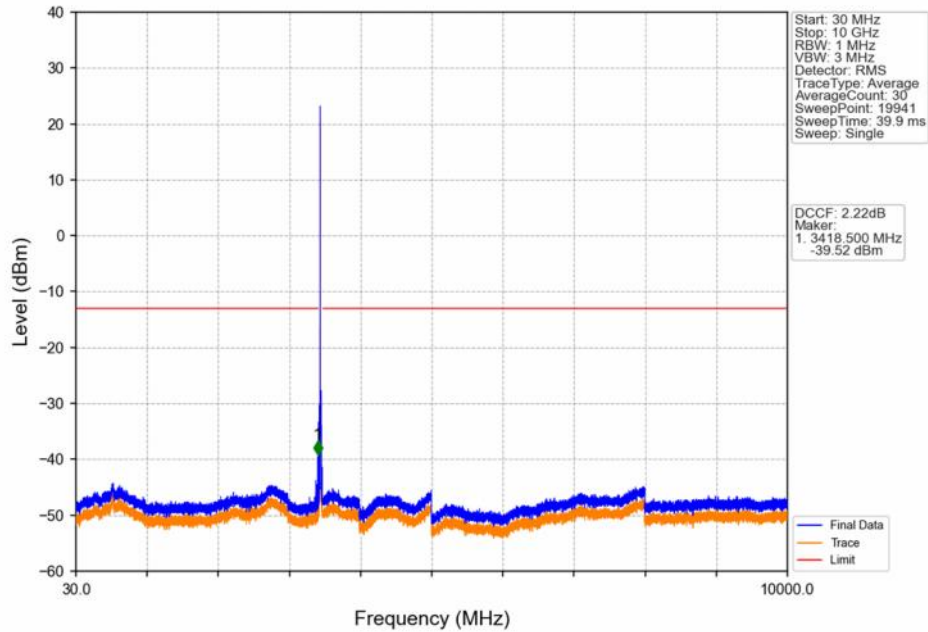
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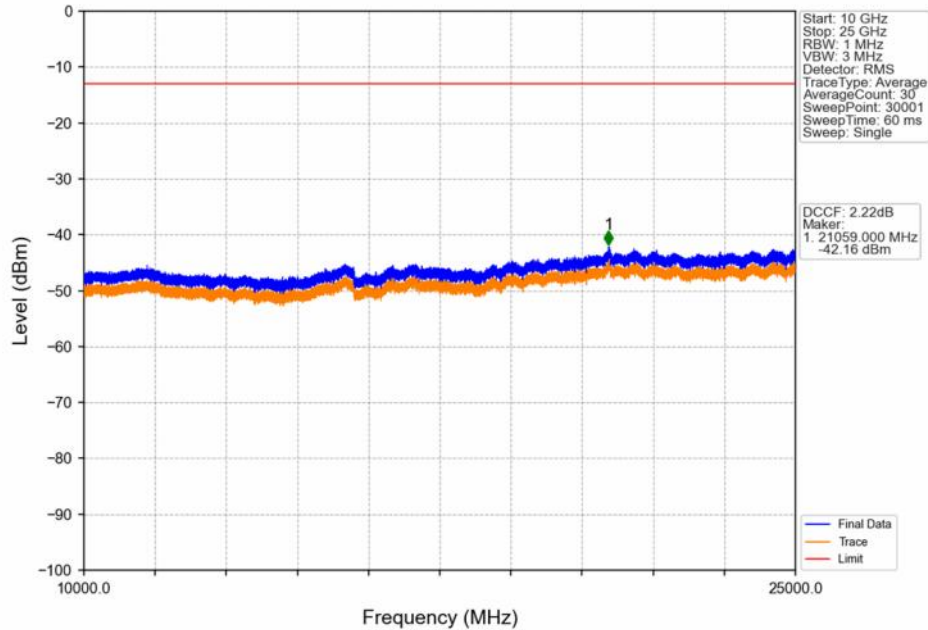
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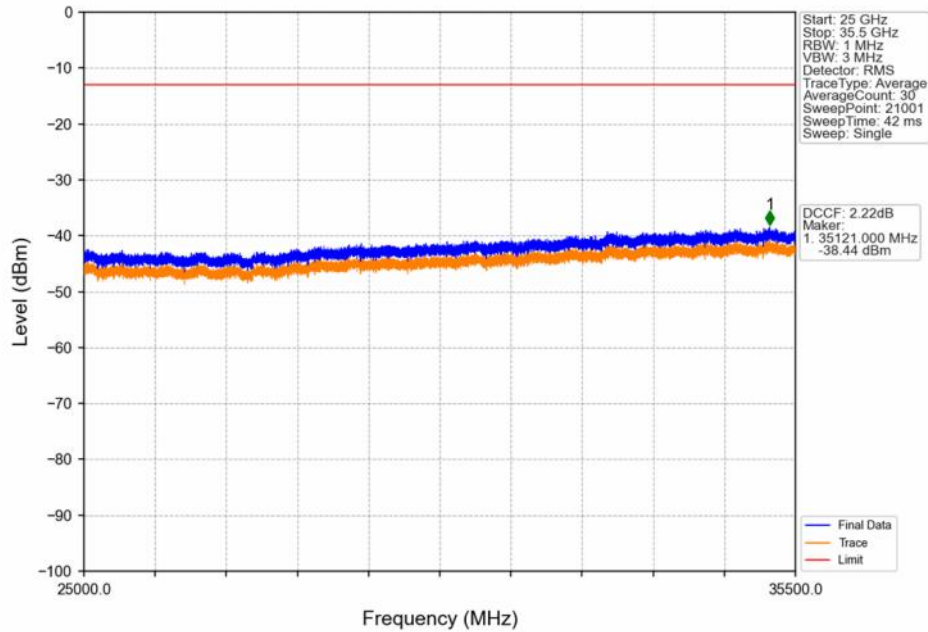
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Band42a_15MHz_QPSK_LCH_3457.5MHz_RB_75_0_NTNV



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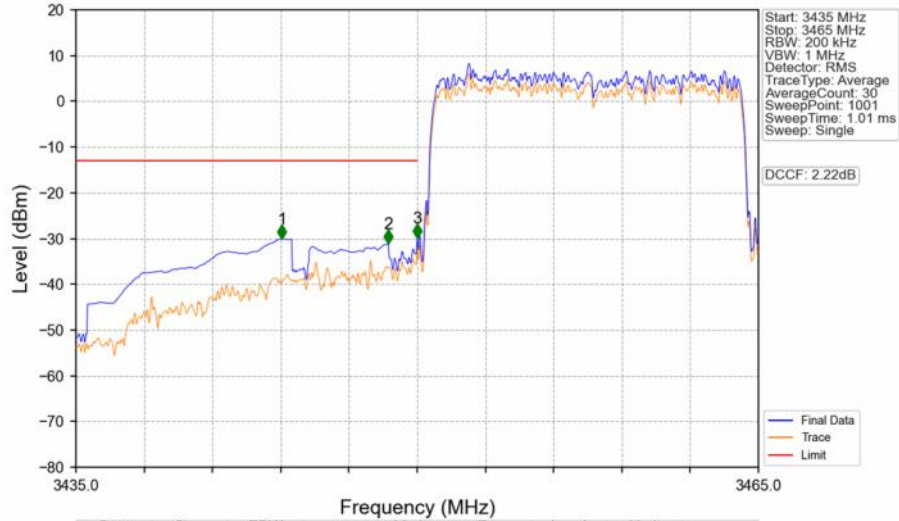
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3435	3445	1	CHP	1	3444.060	-30.08	-13	Pass
3445	3449	0.5	CHP	2	3448.740	-31.18	-13	Pass
3449	3450	0.2	/	3	3450.000	-29.96	-13	Pass
3450	3465	0.2	/	/	/	/	/	/



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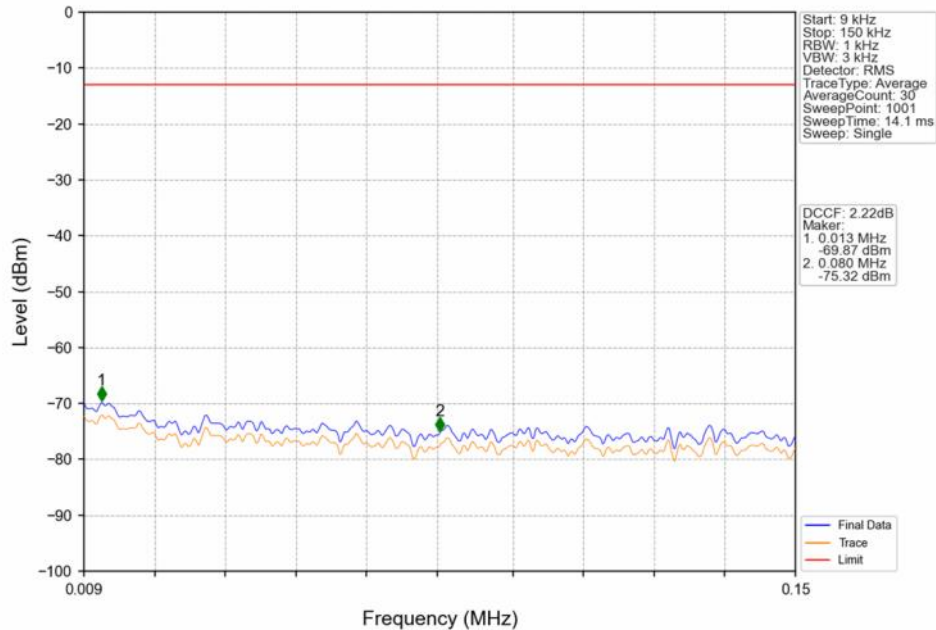
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Band42a_15MHz_QPSK_MCH_3500MHz_RB_1_0_NTNV



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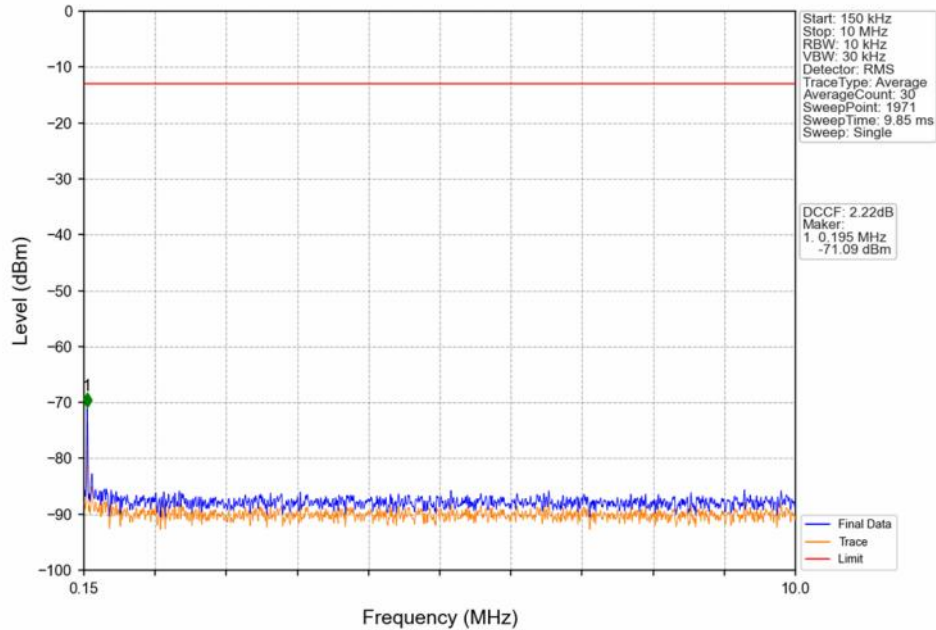
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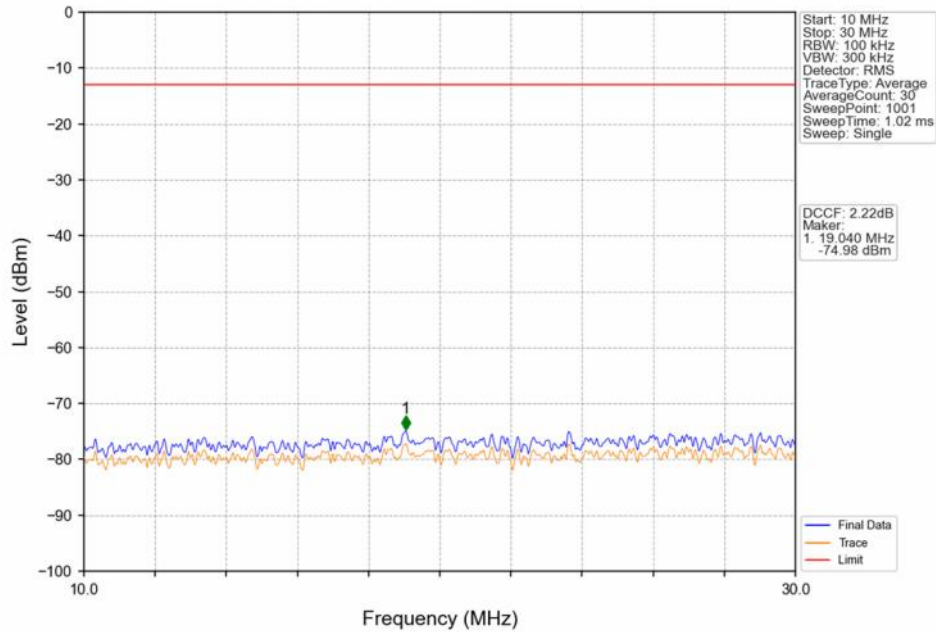
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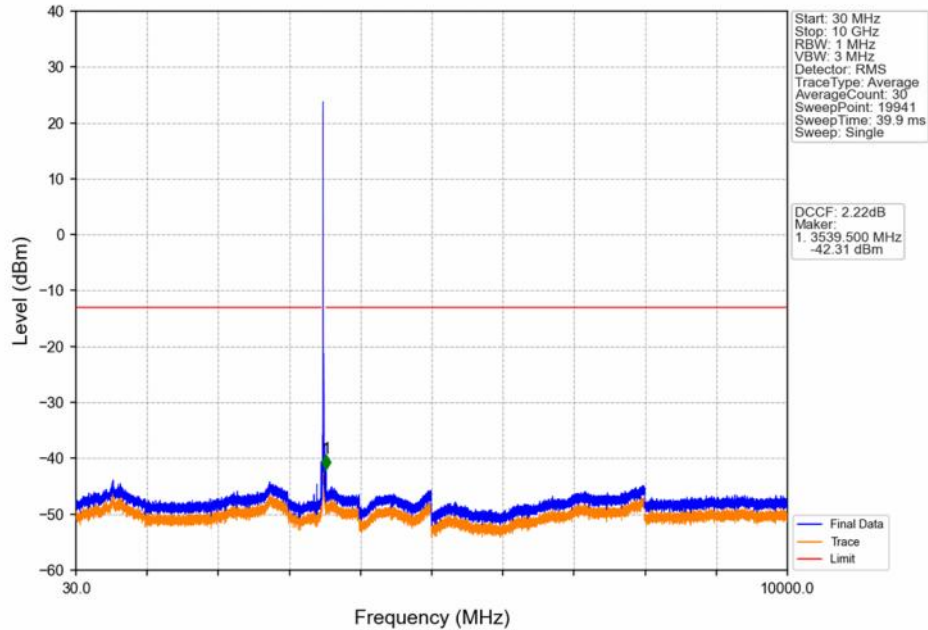
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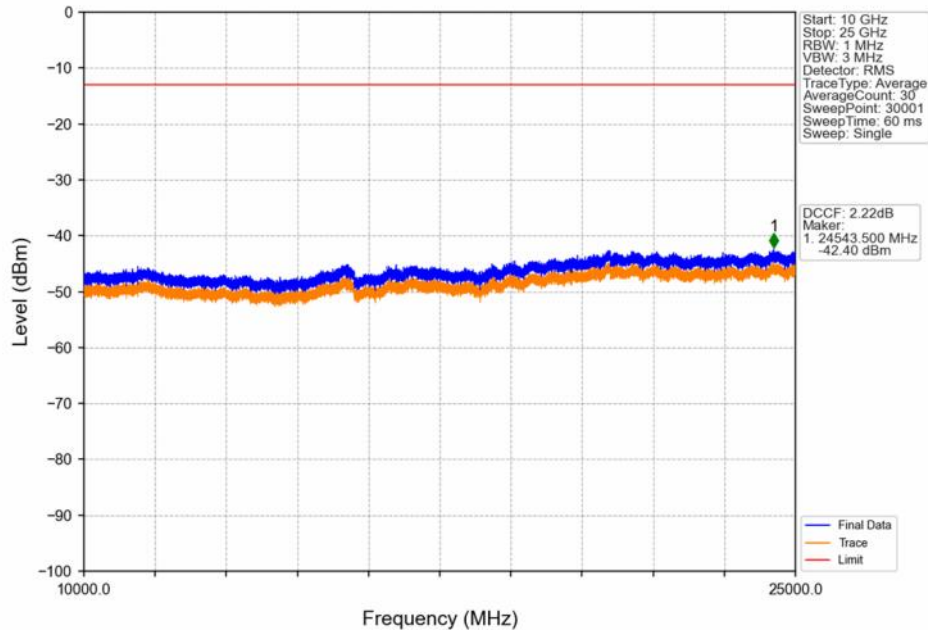
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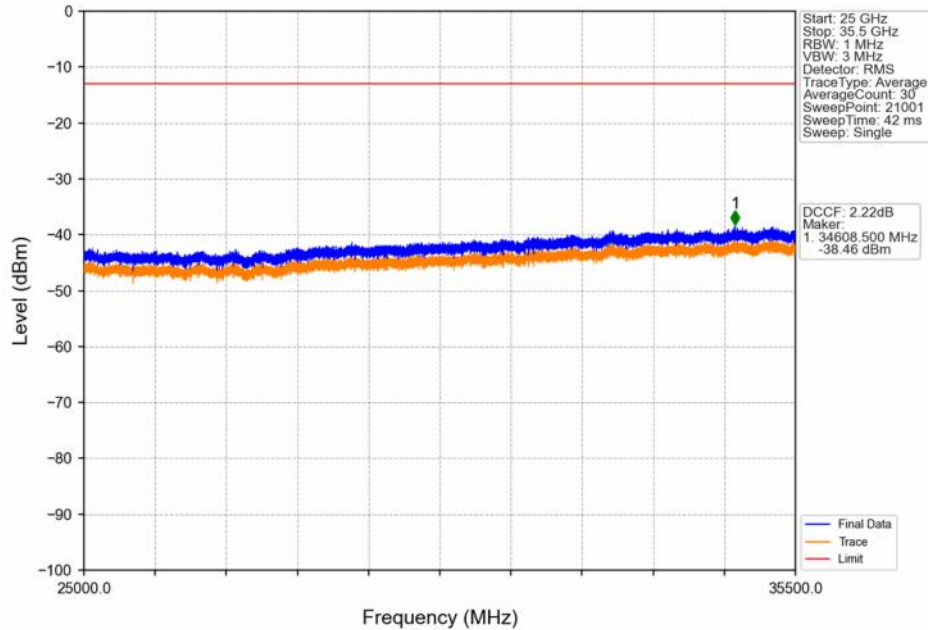
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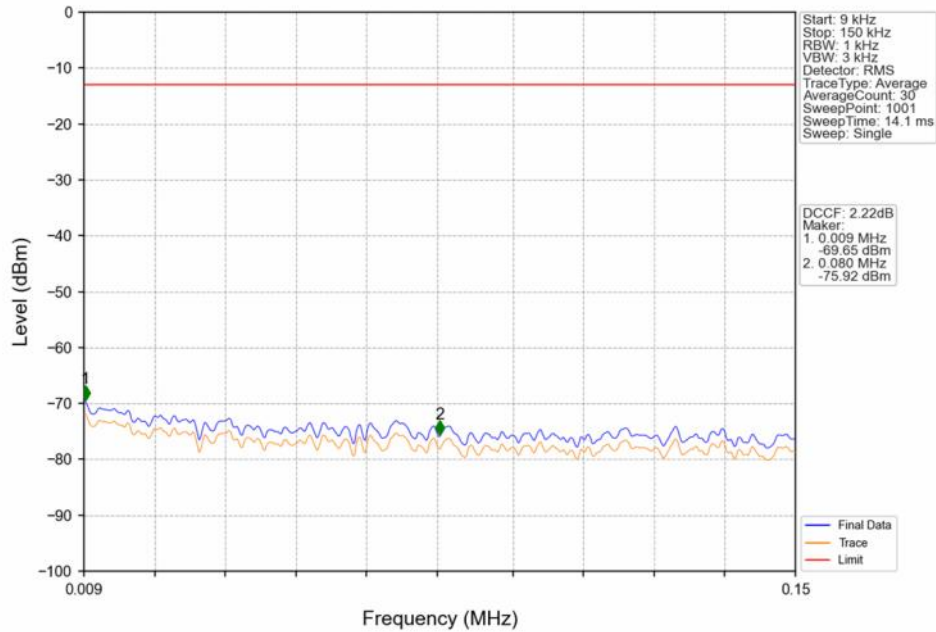
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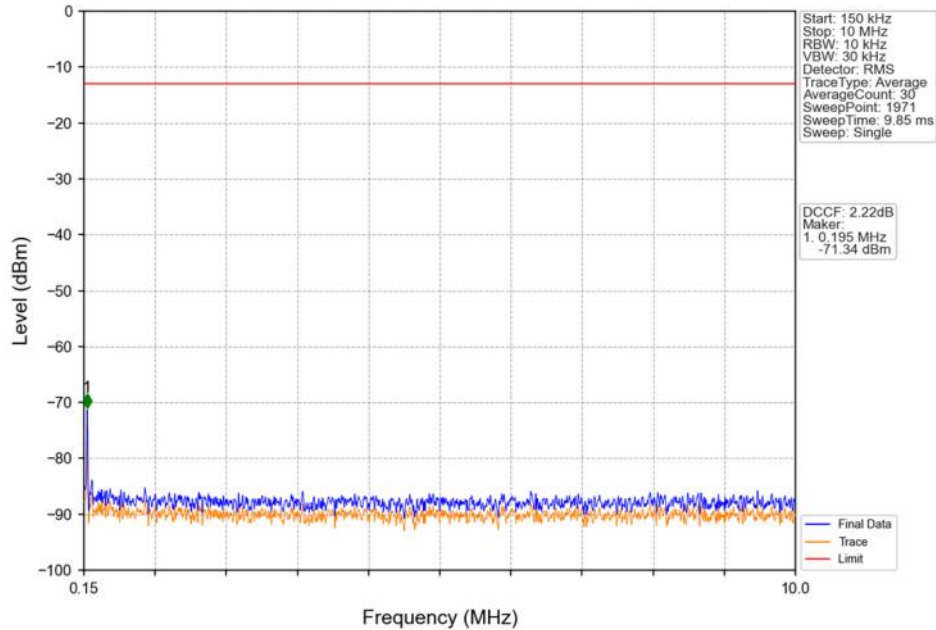
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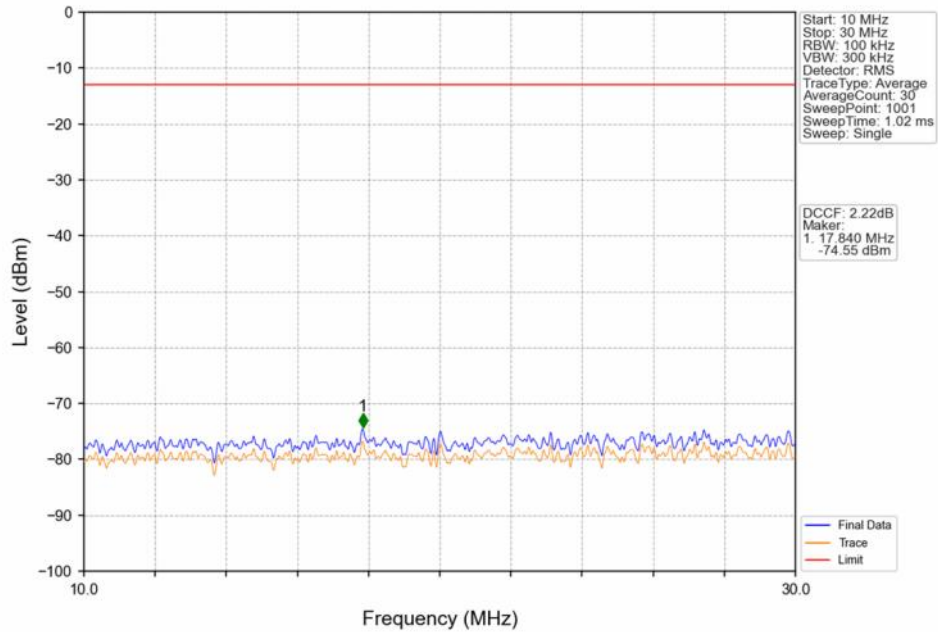
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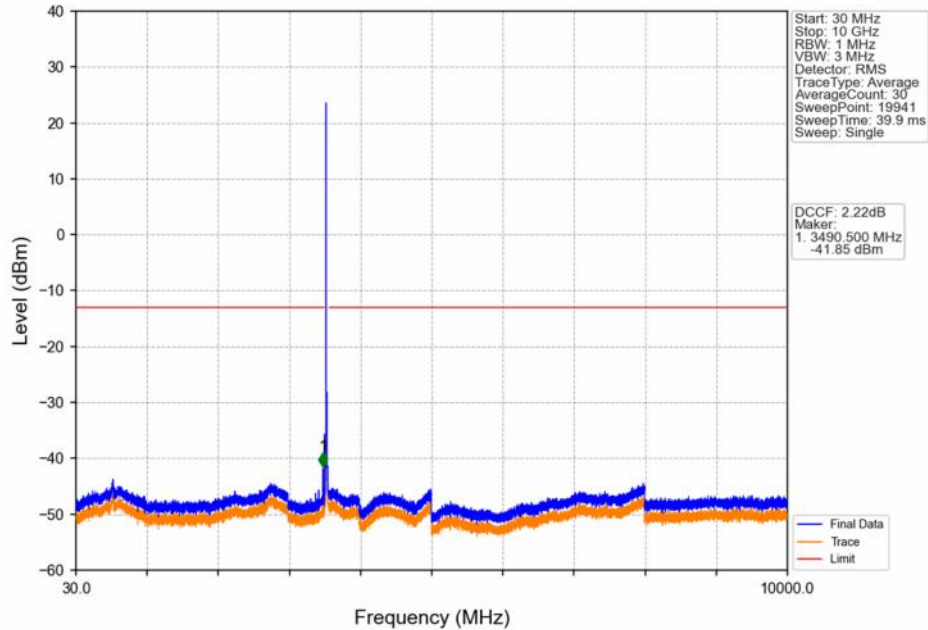
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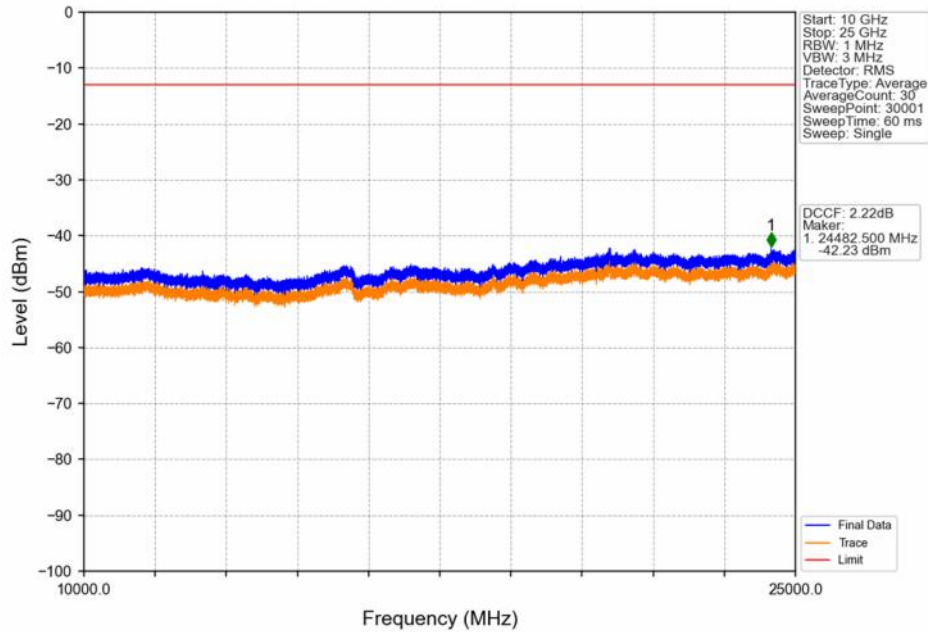
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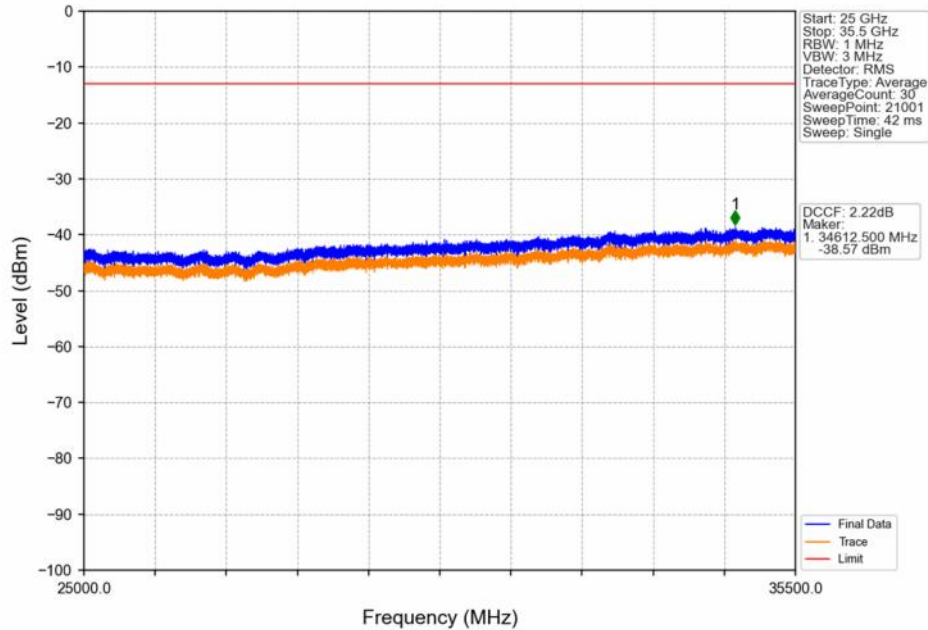
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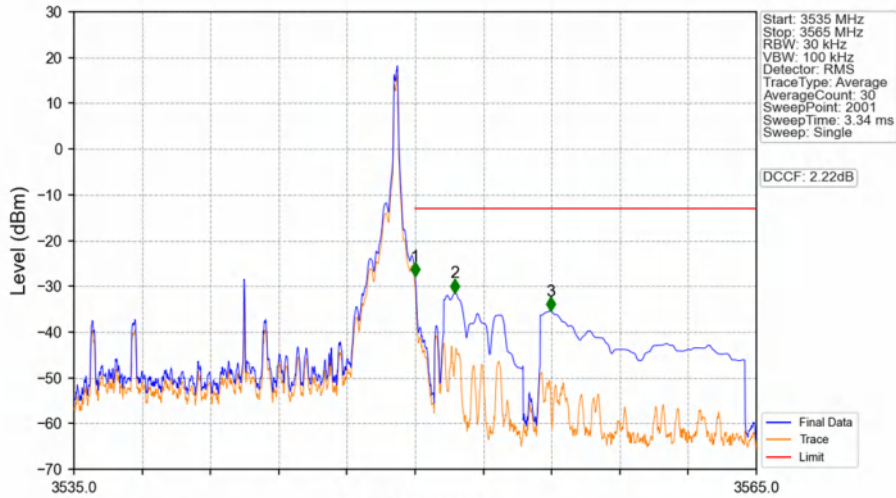
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Band42a_15MHz_QPSK_HCH_3542.5MHz_RB_1_74_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3535	3550	0.03	/	/	/	/	/	/
3550	3551	0.03	/	1	3550.000	-27.90	-13	Pass
3551	3555	0.5	CHP	2	3551.740	-31.49	-13	Pass
3555	3565	1	CHP	3	3555.940	-35.38	-13	Pass

Band42a_15MHz_QPSK_HCH_3542.5MHz_RB_75_0_NTNV



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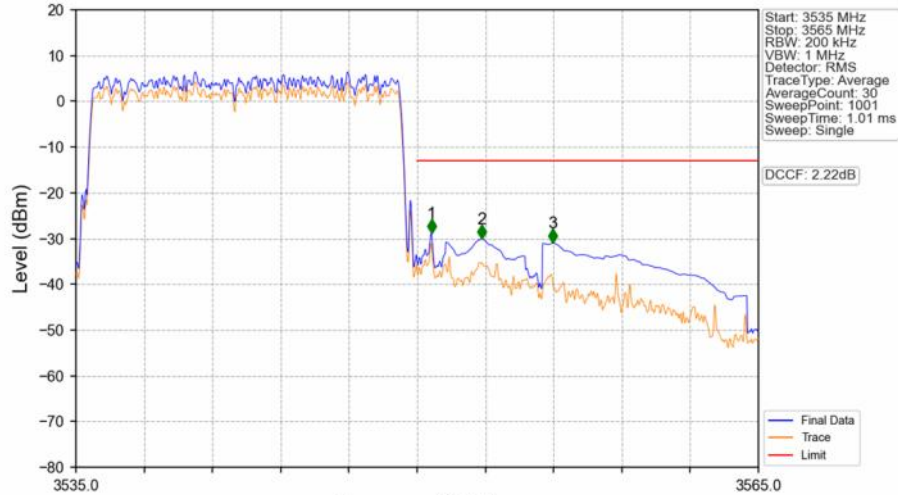
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3535	3550	0.2	/	/	/	/	/	/
3550	3551	0.2	/	1	3550.630	-28.81	-13	Pass
3551	3555	0.5	CHP	2	3552.850	-30.12	-13	Pass
3555	3565	1	CHP	3	3555.970	-30.97	-13	Pass



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5.4 B42a_20MHz

5.4.1 Test Result

Band: 42a / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3460	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	3500	1	0	Refer To Test Graph		Pass
	3540	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass



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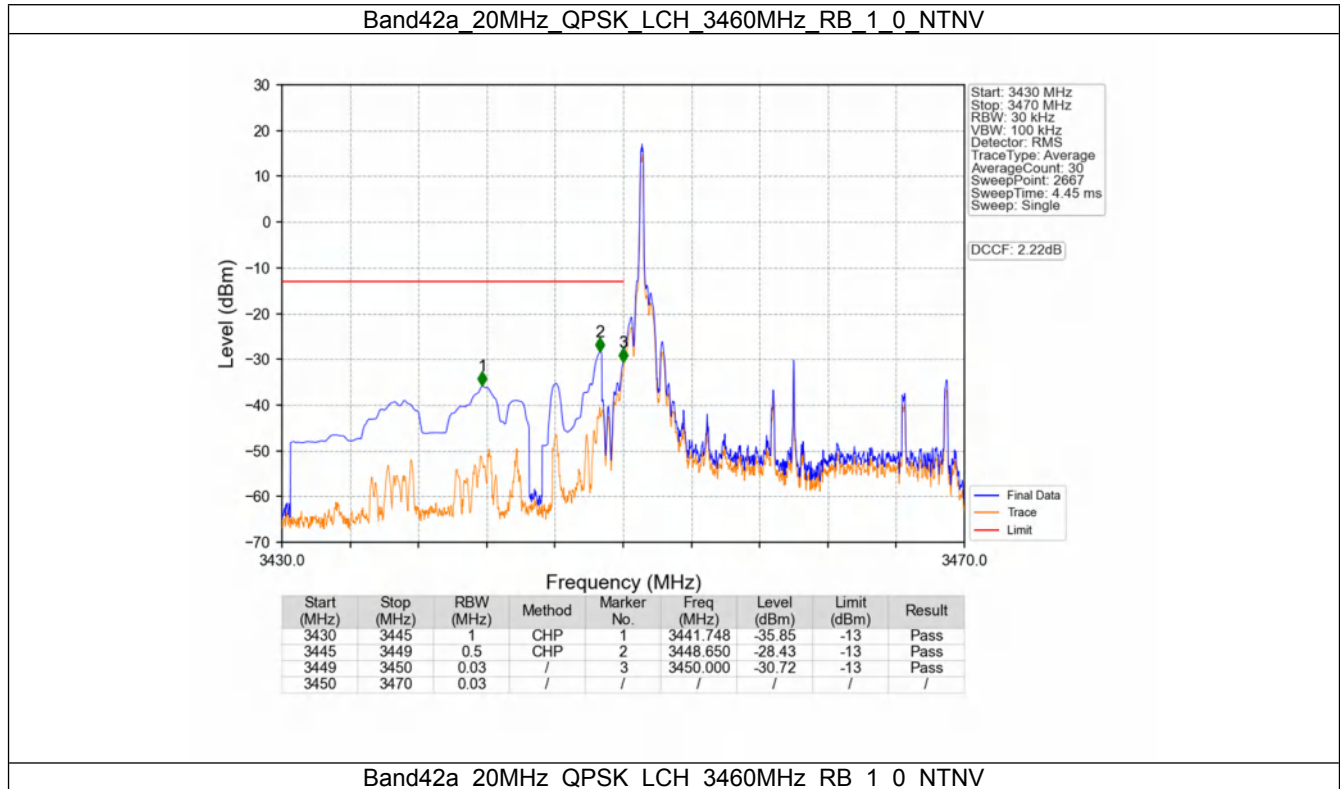
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5.4.2 Test Graph



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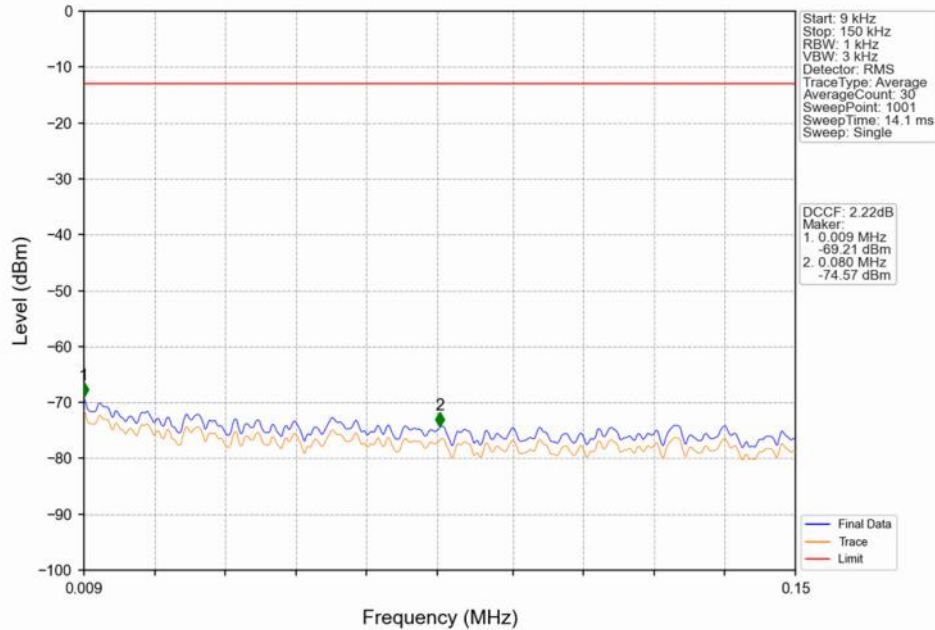
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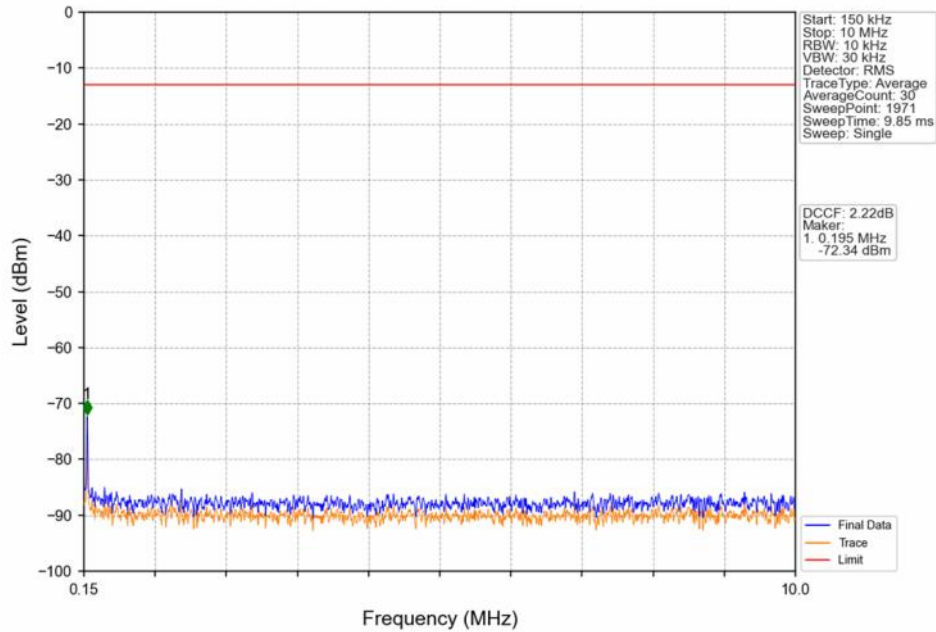
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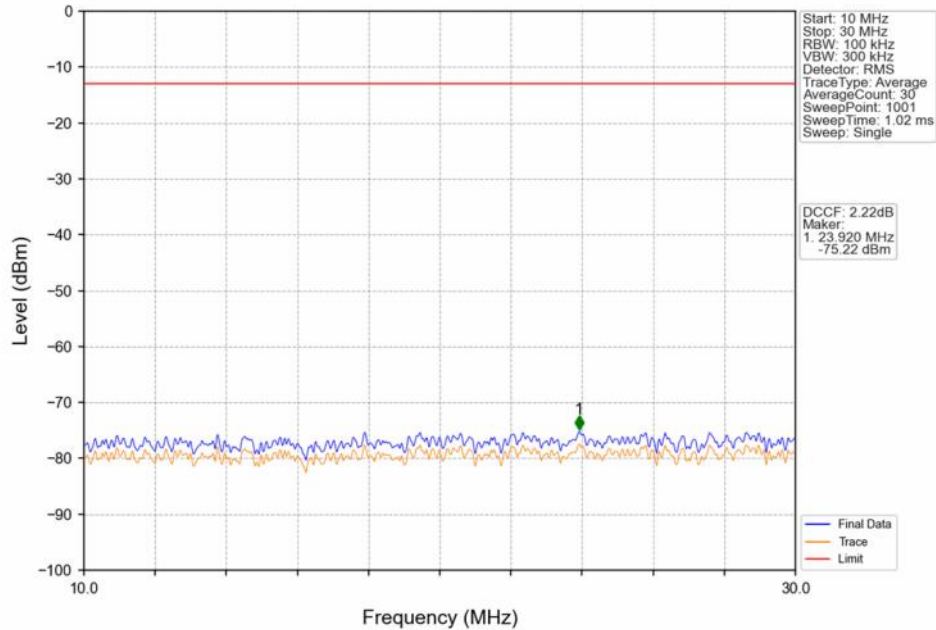
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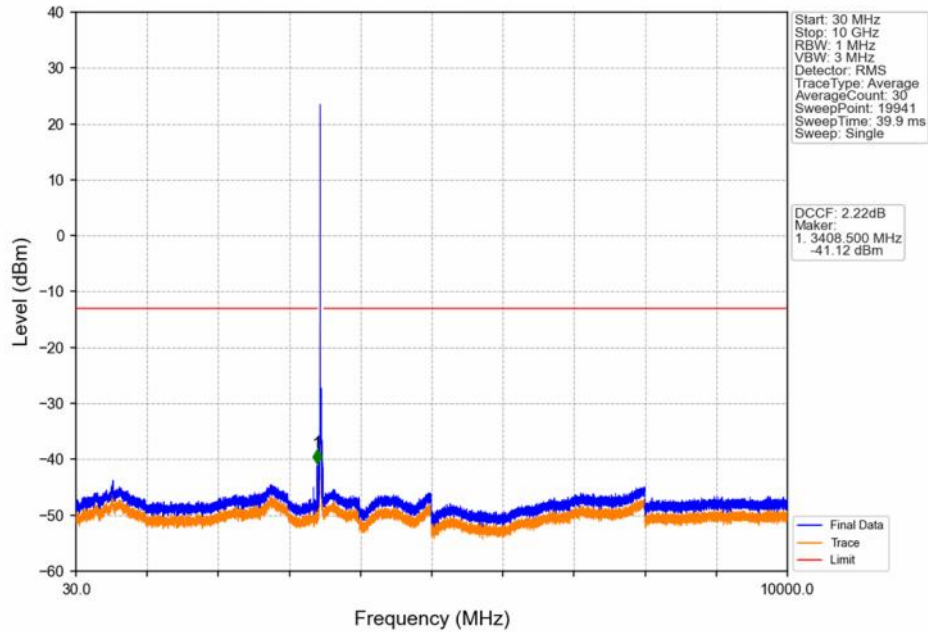
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Band42a_20MHz_QPSK_LCH_3460MHz_RB_1_0_NTNV



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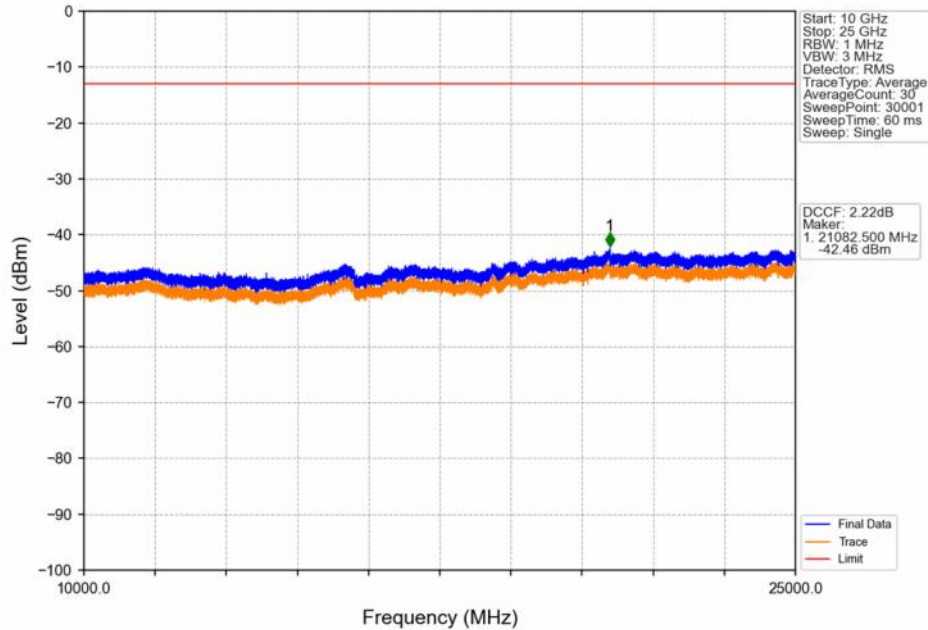
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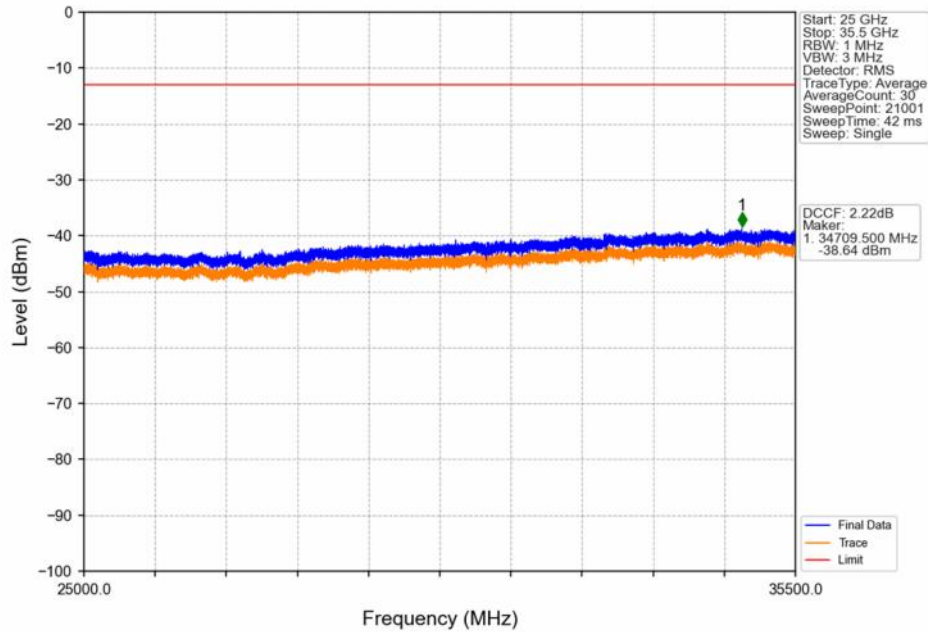
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Band42a_20MHz_QPSK_LCH_3460MHz_RB_100_0_NTNV



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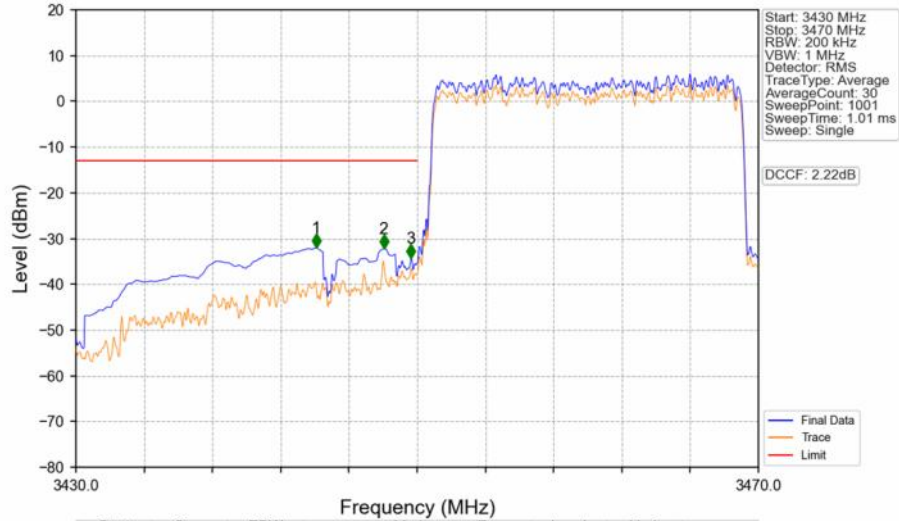
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3430	3445	1	CHP	1	3444.080	-32.08	-13	Pass
3445	3449	0.5	CHP	2	3448.040	-32.28	-13	Pass
3449	3450	0.2	/	3	3449.640	-34.31	-13	Pass
3450	3470	0.2	/	/	/	/	/	/



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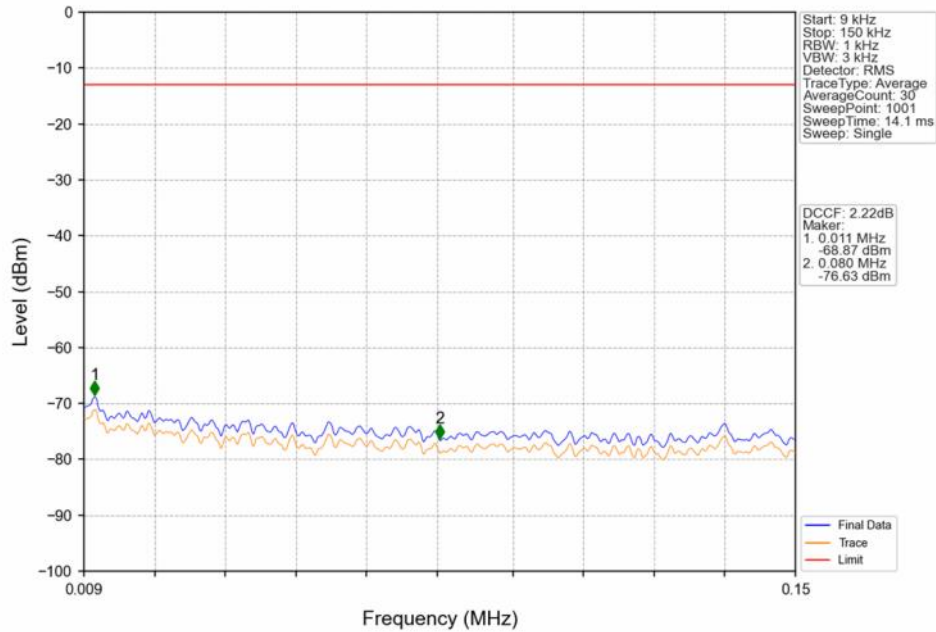
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Band42a_20MHz_QPSK_MCH_3500MHz_RB_1_0_NTNV



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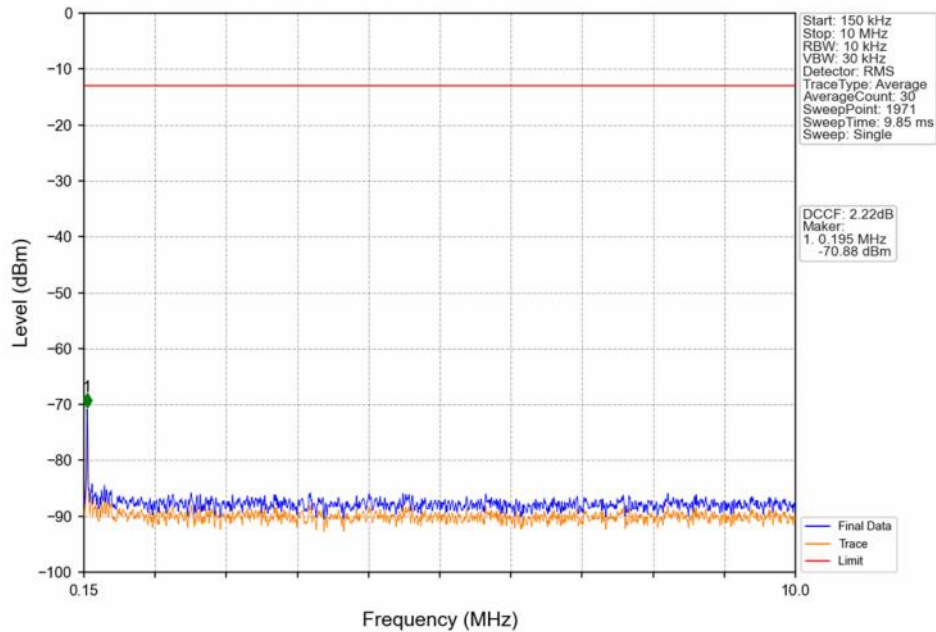
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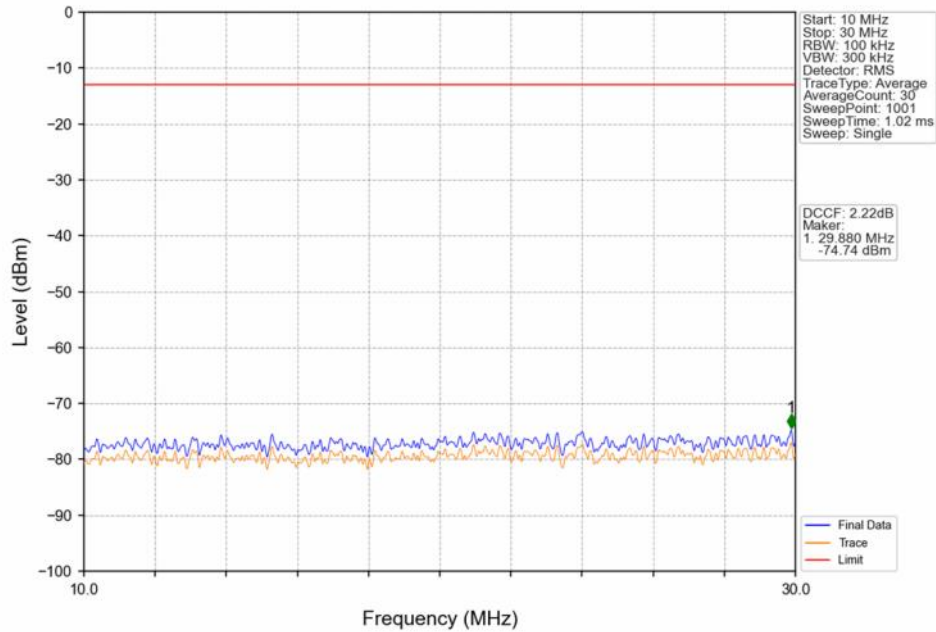
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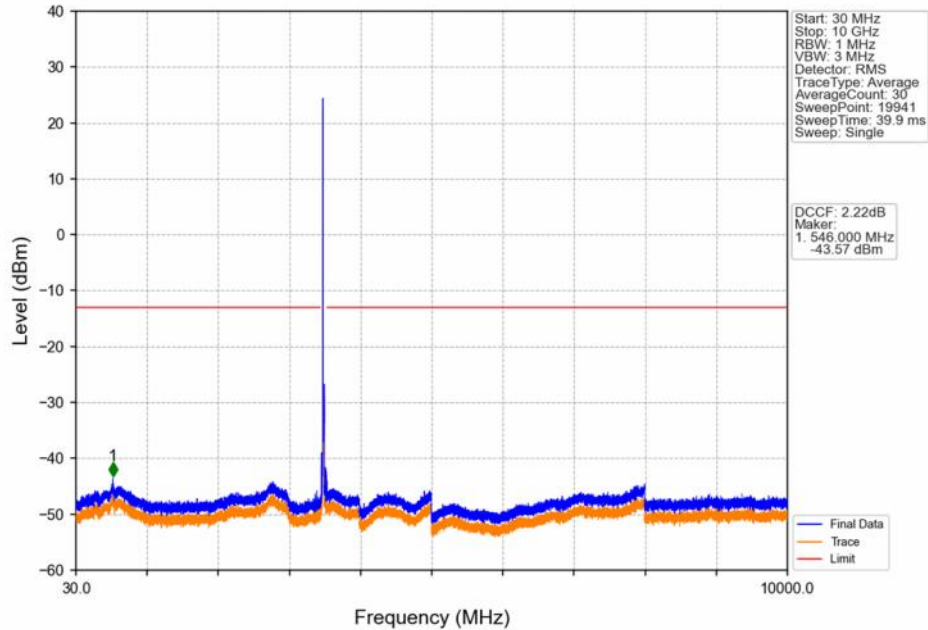
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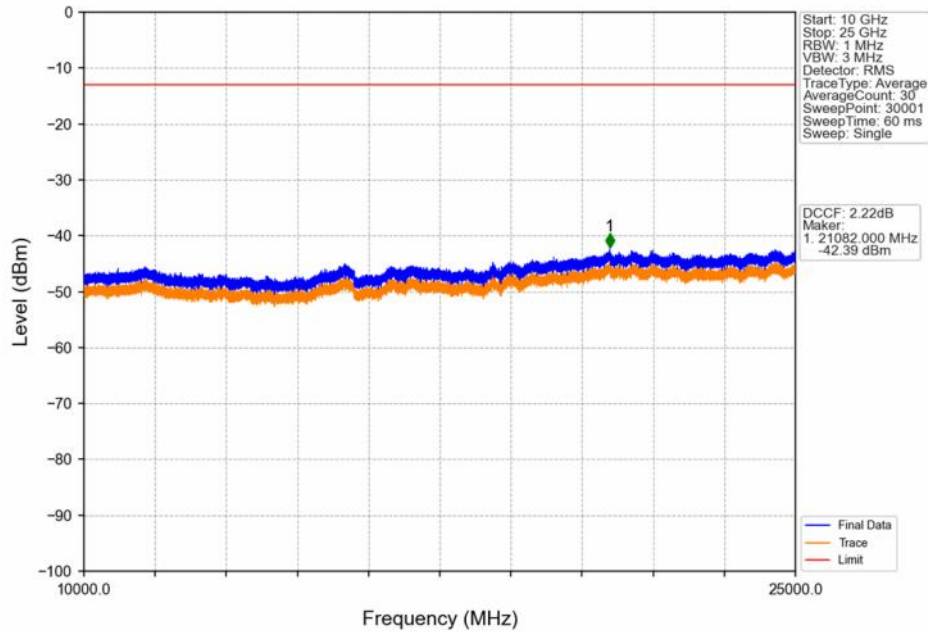
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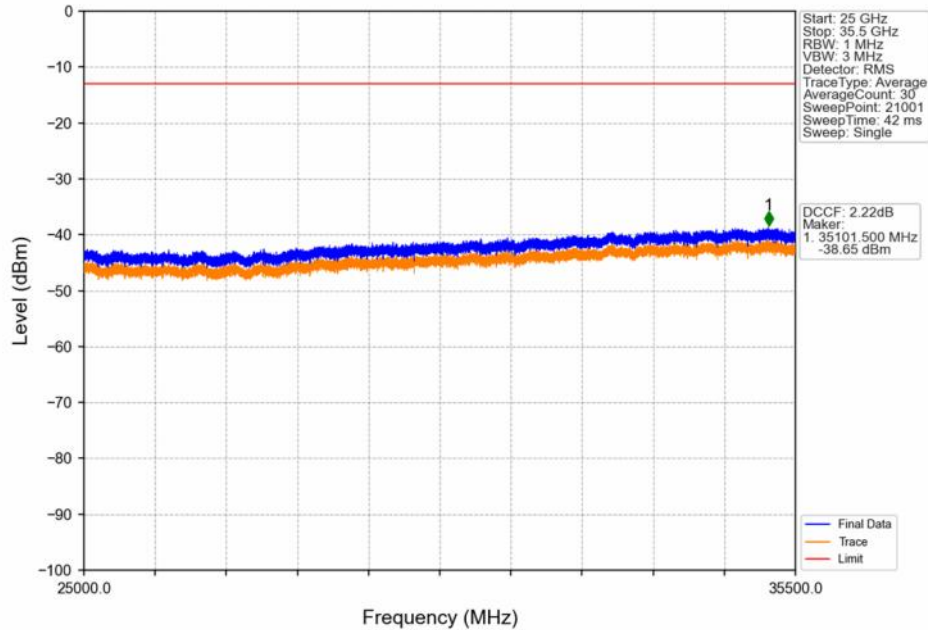
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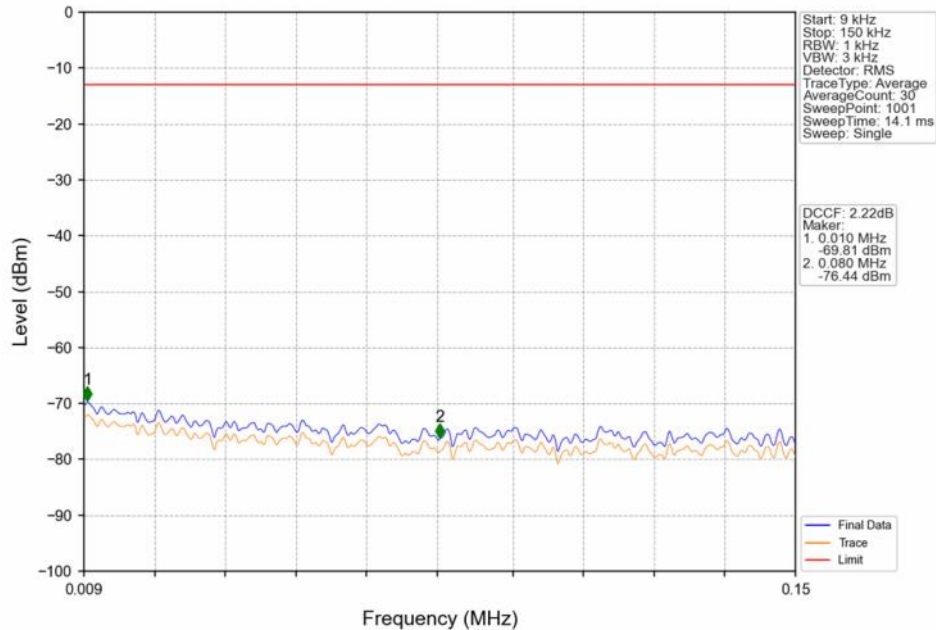
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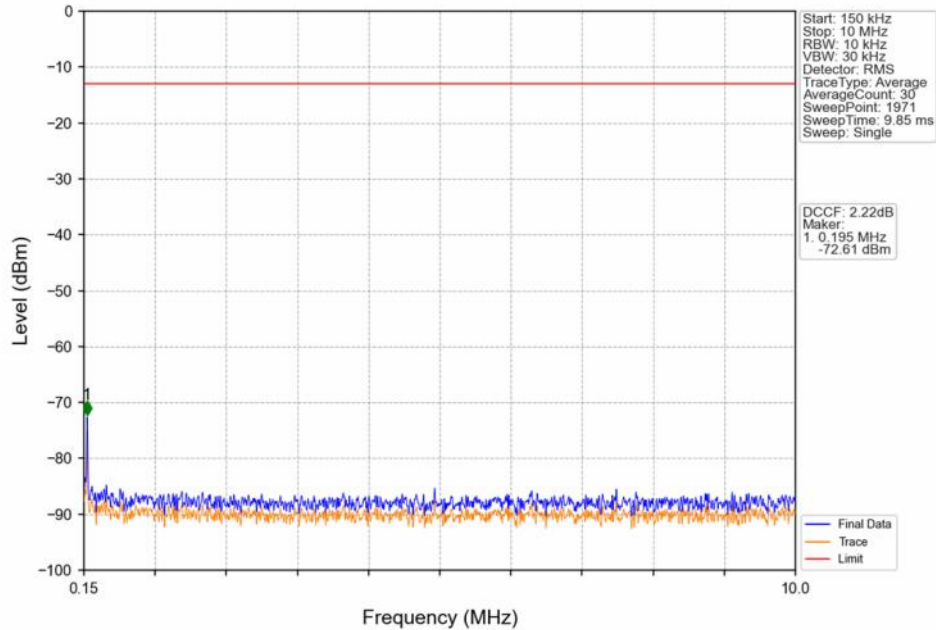
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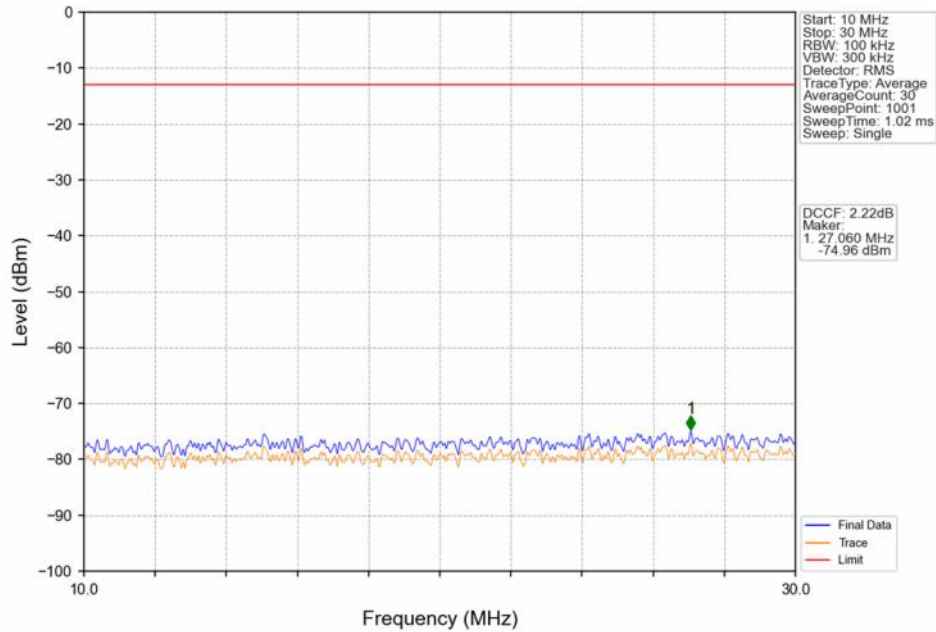
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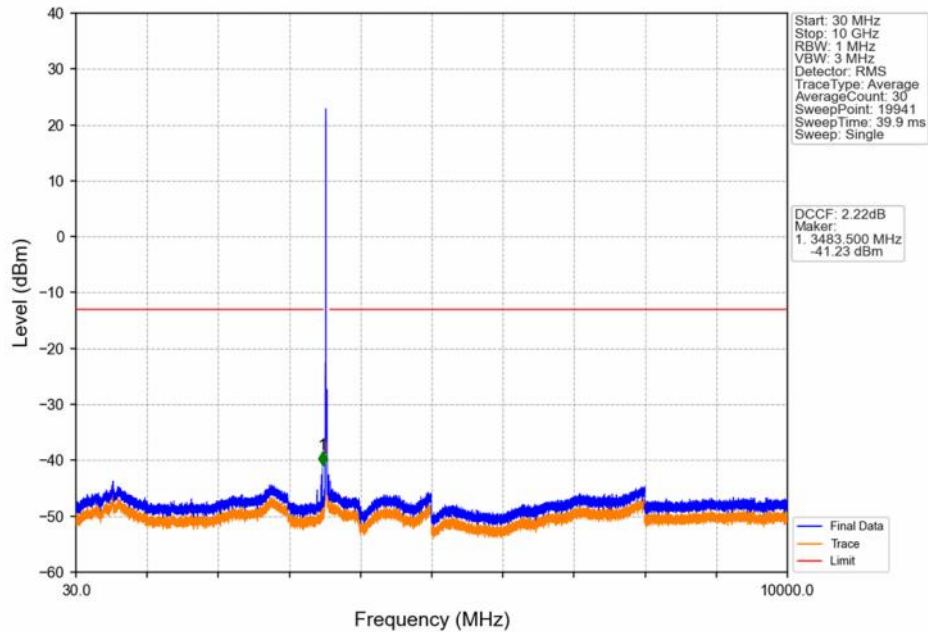
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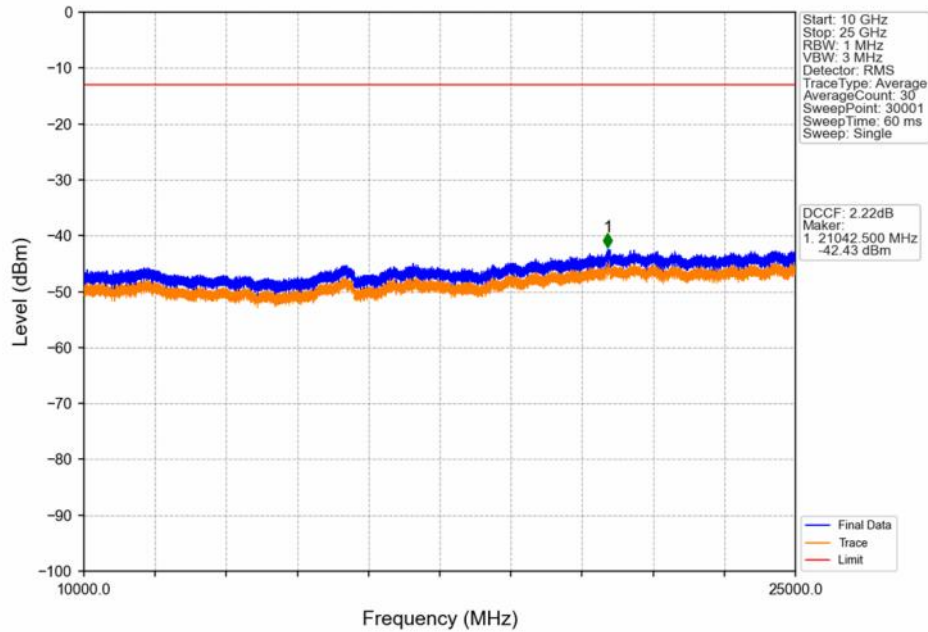
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Band42a_20MHz_QPSK_HCH_3540MHz_RB_1_0_NTNV



Band42a_20MHz_QPSK_HCH_3540MHz_RB_1_0_NTNV



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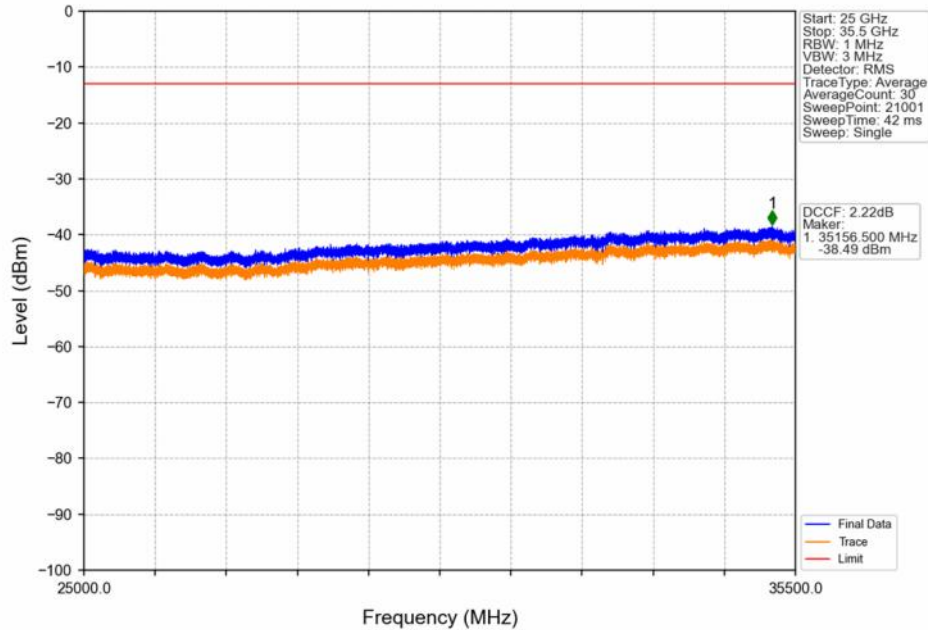
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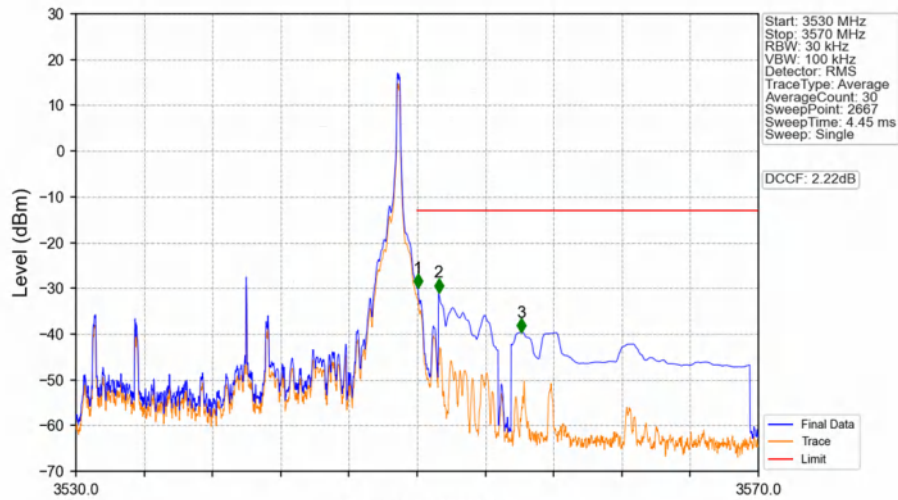
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Band42a_20MHz_QPSK_HCH_3540MHz_RB_1_99_NTNV



Band42a_20MHz_QPSK_HCH_3540MHz_RB_100_0_NTNV



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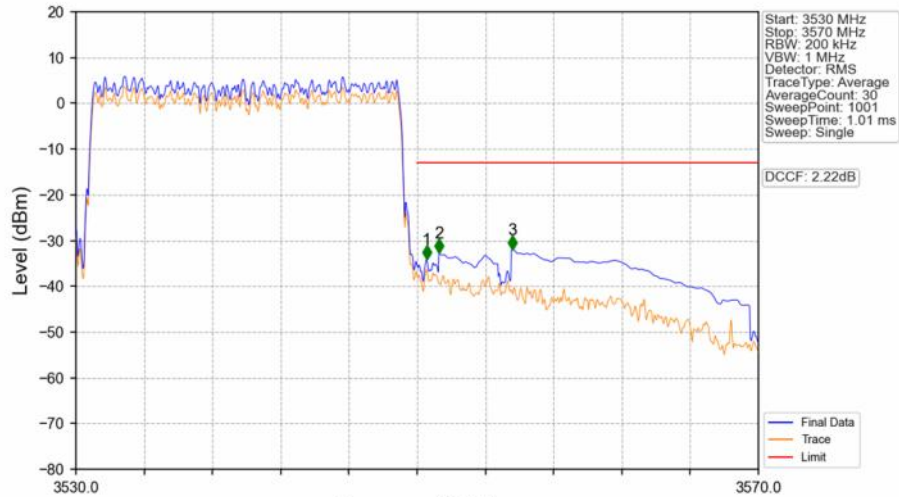
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3530	3550	0.2	/	/	/	/	/	/
3550	3551	0.2	/	1	3550.560	-34.11	-13	Pass
3551	3555	0.5	CHP	2	3551.280	-32.74	-13	Pass
3555	3570	1	CHP	3	3555.600	-32.04	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = LTE_42(3450-3550)
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.165	35.88	-18.88	25.50	-52.76	-13.00	39.76	Horizontal
2	5155.1155	38.38	-13.82	31.81	-38.89	-13.00	25.89	Horizontal
3	8371.1436	43.96	-37.63	36.38	-52.55	-13.00	39.55	Horizontal
4	10353.2677	44.99	-36.09	39.15	-47.21	-13.00	34.21	Horizontal
5	13377.3439	44.01	-38.41	39.67	-49.99	-13.00	36.99	Horizontal
6	17307.6654	42.21	-38.68	43.39	-48.34	-13.00	35.34	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1348.1848	35.69	-20.07	25.08	-54.56	-13.00	41.56	Vertical
2	6253.5754	39.07	-12.65	33.22	-35.62	-13.00	22.62	Vertical
3	6901.9451	51.07	-40.02	35.40	-48.81	-13.00	35.81	Vertical
4	10353.2677	49.83	-36.09	39.15	-42.37	-13.00	29.37	Vertical
5	13804.5902	46.72	-39.28	40.52	-47.30	-13.00	34.30	Vertical
6	17373.7937	41.76	-38.73	44.19	-48.04	-13.00	35.04	Vertical



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Test Band = LTE_42(3450-3550)
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1469.1969	36.25	-19.72	25.15	-53.58	-13.00	40.58	Horizontal
2	6289.879	38.45	-12.23	33.44	-35.60	-13.00	22.60	Horizontal
3	8233.7117	43.49	-37.84	36.43	-53.18	-13.00	40.18	Horizontal
4	10473.4487	46.60	-36.06	38.98	-45.74	-13.00	32.74	Horizontal
5	14701.0601	41.69	-38.61	41.90	-50.28	-13.00	37.28	Horizontal
6	17316.8658	42.10	-38.68	43.50	-48.34	-13.00	35.34	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1651.2651	35.76	-18.90	25.49	-52.91	-13.00	39.91	Vertical
2	6266.7767	38.97	-12.61	33.30	-35.60	-13.00	22.60	Vertical
3	6981.8741	50.24	-39.97	35.49	-49.50	-13.00	36.50	Vertical
4	10472.8736	52.02	-36.06	38.98	-40.32	-13.00	27.32	Vertical
5	13964.4482	44.76	-39.94	41.09	-49.35	-13.00	36.35	Vertical
6	17141.4821	42.94	-38.42	42.27	-48.47	-13.00	35.47	Vertical



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Test Band = LTE_42(3450-3550)
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1462.0462	35.91	-19.68	25.20	-53.83	-13.00	40.83	Horizontal
2	5785.4785	39.14	-13.21	32.43	-36.90	-13.00	23.90	Horizontal
3	8424.6212	43.75	-37.49	36.45	-52.55	-13.00	39.55	Horizontal
4	10593.0547	43.84	-36.38	39.27	-48.53	-13.00	35.53	Horizontal
5	13319.841	43.16	-37.58	39.84	-49.84	-13.00	36.84	Horizontal
6	17371.4936	41.46	-38.73	44.16	-48.37	-13.00	35.37	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1619.3619	36.21	-19.18	25.25	-52.98	-13.00	39.98	Vertical
2	6295.9296	39.08	-12.39	33.48	-35.09	-13.00	22.09	Vertical
3	7062.3781	50.50	-39.72	36.13	-48.35	-13.00	35.35	Vertical
4	10593.6297	53.76	-36.38	39.27	-38.61	-13.00	25.61	Vertical
5	14124.3062	44.58	-39.84	41.82	-48.70	-13.00	35.70	Vertical
6	17322.6161	42.41	-38.69	43.57	-47.97	-13.00	34.97	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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