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Appendix B.46

LTE CA_48B



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1. Effective (Isotropic) Radiated Power Output Data Test Result Ant1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
48-48	10MHz-10MHz	QPSK-QPSK	55290-55389	1RB#0-0RB#0	22.51	16.39	23	PASS
48-48	10MHz-10MHz	16QAM-16QAM	55290-55389	1RB#0-0RB#0	22.06	15.94	23	PASS
48-48	10MHz-10MHz	64QAM-64QAM	55290-55389	1RB#0-0RB#0	20.90	14.78	23	PASS
48-48	10MHz-10MHz	256QAM-256QAM	55290-55389	1RB#0-0RB#0	17.90	11.78	23	PASS
48-48	10MHz-10MHz	QPSK-QPSK	55290-55389	1RB#49-0RB#0	22.63	16.51	23	PASS
48-48	10MHz-10MHz	16QAM-16QAM	55290-55389	1RB#49-0RB#0	21.61	15.49	23	PASS
48-48	10MHz-10MHz	64QAM-64QAM	55290-55389	1RB#49-0RB#0	20.88	14.76	23	PASS
48-48	10MHz-10MHz	256QAM-256QAM	55290-55389	1RB#49-0RB#0	17.81	11.69	23	PASS
48-48	10MHz-10MHz	QPSK-QPSK	55290-55389	1RB#0-1RB#49	15.23	9.11	23	PASS
48-48	10MHz-10MHz	16QAM-16QAM	55290-55389	1RB#0-1RB#49	15.01	8.89	23	PASS
48-48	10MHz-10MHz	64QAM-64QAM	55290-55389	1RB#0-1RB#49	15.20	9.08	23	PASS
48-48	10MHz-10MHz	256QAM-256QAM	55290-55389	1RB#0-1RB#49	14.83	8.71	23	PASS
48-48	10MHz-10MHz	QPSK-QPSK	55290-55389	12RB#0-0RB#0	22.78	16.66	23	PASS
48-48	10MHz-10MHz	16QAM-16QAM	55290-55389	12RB#0-0RB#0	22.04	15.92	23	PASS
48-48	10MHz-10MHz	64QAM-64QAM	55290-55389	12RB#0-0RB#0	20.77	14.65	23	PASS
48-48	10MHz-10MHz	256QAM-256QAM	55290-55389	12RB#0-0RB#0	18.14	12.02	23	PASS
48-48	10MHz-10MHz	QPSK-QPSK	55290-55389	50RB#0-50RB#0	21.75	15.63	23	PASS
48-48	10MHz-10MHz	16QAM-16QAM	55290-55389	50RB#0-50RB#0	20.82	14.70	23	PASS
48-48	10MHz-10MHz	64QAM-64QAM	55290-55389	50RB#0-50RB#0	20.73	14.61	23	PASS
48-48	10MHz-10MHz	256QAM-256QAM	55290-55389	50RB#0-50RB#0	18.94	12.82	23	PASS



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48-48	10MHz-10MHz	QPSK-QPSK	55941-56040	1RB#0-0RB#0	22.51	16.39	23	PASS
48-48	10MHz-10MHz	16QAM-16QAM	55941-56040	1RB#0-0RB#0	21.88	15.76	23	PASS
48-48	10MHz-10MHz	64QAM-64QAM	55941-56040	1RB#0-0RB#0	21.02	14.90	23	PASS
48-48	10MHz-10MHz	256QAM-256QAM	55941-56040	1RB#0-0RB#0	17.76	11.64	23	PASS
48-48	10MHz-10MHz	QPSK-QPSK	55941-56040	1RB#49-0RB#0	22.59	16.47	23	PASS
48-48	10MHz-10MHz	16QAM-16QAM	55941-56040	1RB#49-0RB#0	22.08	15.96	23	PASS
48-48	10MHz-10MHz	64QAM-64QAM	55941-56040	1RB#49-0RB#0	21.04	14.92	23	PASS
48-48	10MHz-10MHz	256QAM-256QAM	55941-56040	1RB#49-0RB#0	17.84	11.72	23	PASS
48-48	10MHz-10MHz	QPSK-QPSK	55941-56040	1RB#0-1RB#49	14.96	8.84	23	PASS
48-48	10MHz-10MHz	16QAM-16QAM	55941-56040	1RB#0-1RB#49	14.92	8.80	23	PASS
48-48	10MHz-10MHz	64QAM-64QAM	55941-56040	1RB#0-1RB#49	15.08	8.96	23	PASS
48-48	10MHz-10MHz	256QAM-256QAM	55941-56040	1RB#0-1RB#49	14.79	8.67	23	PASS
48-48	10MHz-10MHz	QPSK-QPSK	55941-56040	12RB#0-0RB#0	22.80	16.68	23	PASS
48-48	10MHz-10MHz	16QAM-16QAM	55941-56040	12RB#0-0RB#0	21.84	15.72	23	PASS
48-48	10MHz-10MHz	64QAM-64QAM	55941-56040	12RB#0-0RB#0	20.97	14.85	23	PASS
48-48	10MHz-10MHz	256QAM-256QAM	55941-56040	12RB#0-0RB#0	17.82	11.70	23	PASS
48-48	10MHz-10MHz	QPSK-QPSK	55941-56040	50RB#0-50RB#0	21.69	15.57	23	PASS
48-48	10MHz-10MHz	16QAM-16QAM	55941-56040	50RB#0-50RB#0	20.71	14.59	23	PASS
48-48	10MHz-10MHz	64QAM-64QAM	55941-56040	50RB#0-50RB#0	20.69	14.57	23	PASS
48-48	10MHz-10MHz	256QAM-256QAM	55941-56040	50RB#0-50RB#0	18.85	12.73	23	PASS
48-48	10MHz-10MHz	QPSK-QPSK	56591-56690	1RB#0-0RB#0	22.55	16.43	23	PASS
48-48	10MHz-10MHz	16QAM-16QAM	56591-56690	1RB#0-0RB#0	22.08	15.96	23	PASS
48-48	10MHz-10MHz	64QAM-64QAM	56591-56690	1RB#0-0RB#0	21.02	14.90	23	PASS



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	10MHz	64QAM						
48-48	10MHz-10MHz	256QAM-256QAM	56591-56690	1RB#0-0RB#0	18.03	11.91	23	PASS
48-48	10MHz-10MHz	QPSK-QPSK	56591-56690	1RB#49-0RB#0	22.77	16.65	23	PASS
48-48	10MHz-10MHz	16QAM-16QAM	56591-56690	1RB#49-0RB#0	22.02	15.90	23	PASS
48-48	10MHz-10MHz	64QAM-64QAM	56591-56690	1RB#49-0RB#0	21.30	15.18	23	PASS
48-48	10MHz-10MHz	256QAM-256QAM	56591-56690	1RB#49-0RB#0	18.08	11.96	23	PASS
48-48	10MHz-10MHz	QPSK-QPSK	56591-56690	1RB#0-1RB#49	15.32	9.20	23	PASS
48-48	10MHz-10MHz	16QAM-16QAM	56591-56690	1RB#0-1RB#49	15.21	9.09	23	PASS
48-48	10MHz-10MHz	64QAM-64QAM	56591-56690	1RB#0-1RB#49	15.14	9.02	23	PASS
48-48	10MHz-10MHz	256QAM-256QAM	56591-56690	1RB#0-1RB#49	15.41	9.29	23	PASS
48-48	10MHz-10MHz	QPSK-QPSK	56591-56690	12RB#0-0RB#0	22.75	16.63	23	PASS
48-48	10MHz-10MHz	16QAM-16QAM	56591-56690	12RB#0-0RB#0	21.86	15.74	23	PASS
48-48	10MHz-10MHz	64QAM-64QAM	56591-56690	12RB#0-0RB#0	21.12	15.00	23	PASS
48-48	10MHz-10MHz	256QAM-256QAM	56591-56690	12RB#0-0RB#0	17.94	11.82	23	PASS
48-48	10MHz-10MHz	QPSK-QPSK	56591-56690	50RB#0-50RB#0	21.83	15.71	23	PASS
48-48	10MHz-10MHz	16QAM-16QAM	56591-56690	50RB#0-50RB#0	20.87	14.75	23	PASS
48-48	10MHz-10MHz	64QAM-64QAM	56591-56690	50RB#0-50RB#0	20.84	14.72	23	PASS
48-48	10MHz-10MHz	256QAM-256QAM	56591-56690	50RB#0-50RB#0	18.90	12.78	23	PASS



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2. 99% & 26dB Bandwidth

2.1 CA_48B_NTNV_OBW

2.1.1 Test Result

Band: CA_48B / NTN						
BW (MHz)	Modulation	Frequency (MHz)	RB Allocation	99% Occupied Bandwidth (MHz)		Verdict
				Sum	Limit	
CC1:10 CC2:10	CC1: QPSK CC2: QPSK	CC1:3555	CC1: 50@0	18.95	/	Pass
		CC2:3564.9	CC2: 50@0			
	CC1: QPSK CC2: QPSK	CC1:3685.1	CC1: 50@0	18.92	/	Pass
		CC2:3695	CC2: 50@0			
	CC1: 16QAM CC2: 16QAM	CC1:3555	CC1: 50@0	18.92	/	Pass
		CC2:3564.9	CC2: 50@0			
	CC1: 16QAM CC2: 16QAM	CC1:3685.1	CC1: 50@0	18.95	/	Pass
		CC2:3695	CC2: 50@0			
	CC1: 64QAM CC2: 64QAM	CC1:3555	CC1: 50@0	18.96	/	Pass
		CC2:3564.9	CC2: 50@0			
	CC1: 64QAM CC2: 64QAM	CC1:3685.1	CC1: 50@0	18.93	/	Pass
		CC2:3695	CC2: 50@0			
	CC1: 256QAM CC2: 256QAM	CC1:3555	CC1: 50@0	18.90	/	Pass
		CC2:3564.9	CC2: 50@0			
	CC1: 256QAM CC2: 256QAM	CC1:3685.1	CC1: 50@0	18.97	/	Pass
		CC2:3695	CC2: 50@0			



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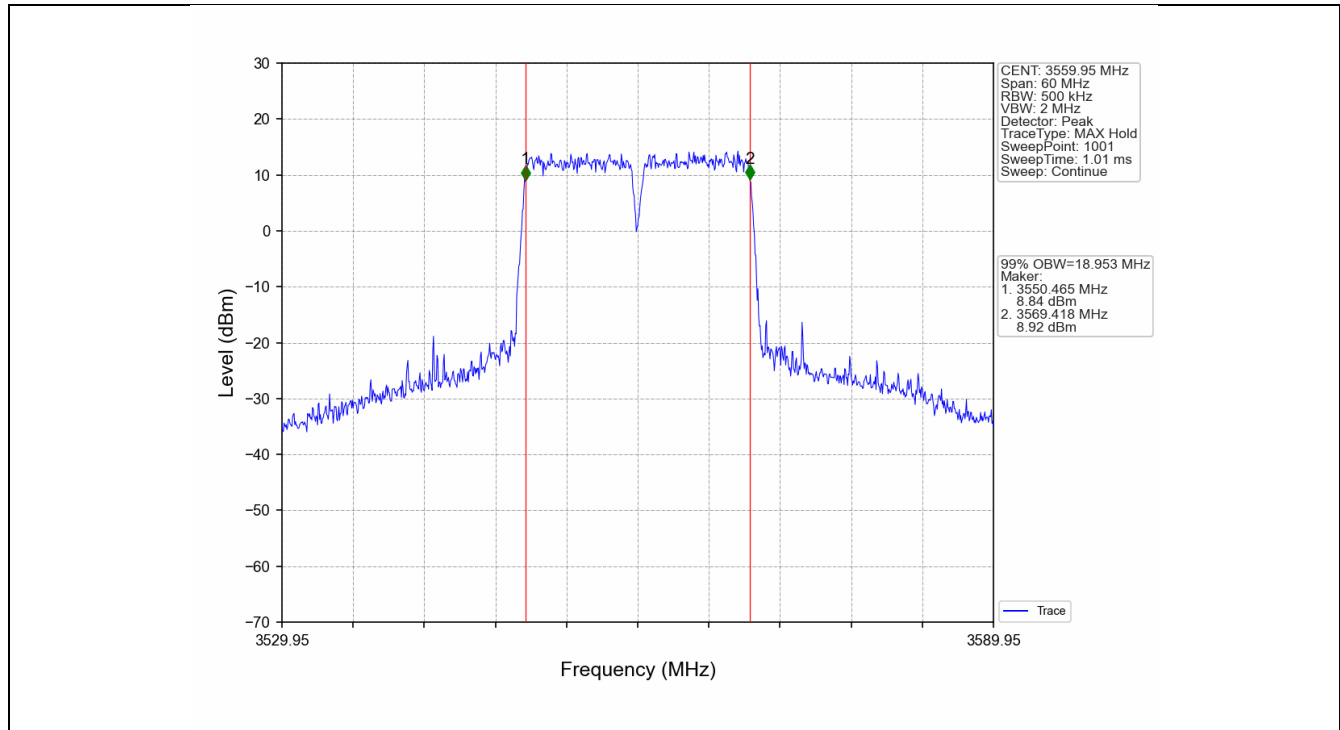
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2.1.2 Test Graph



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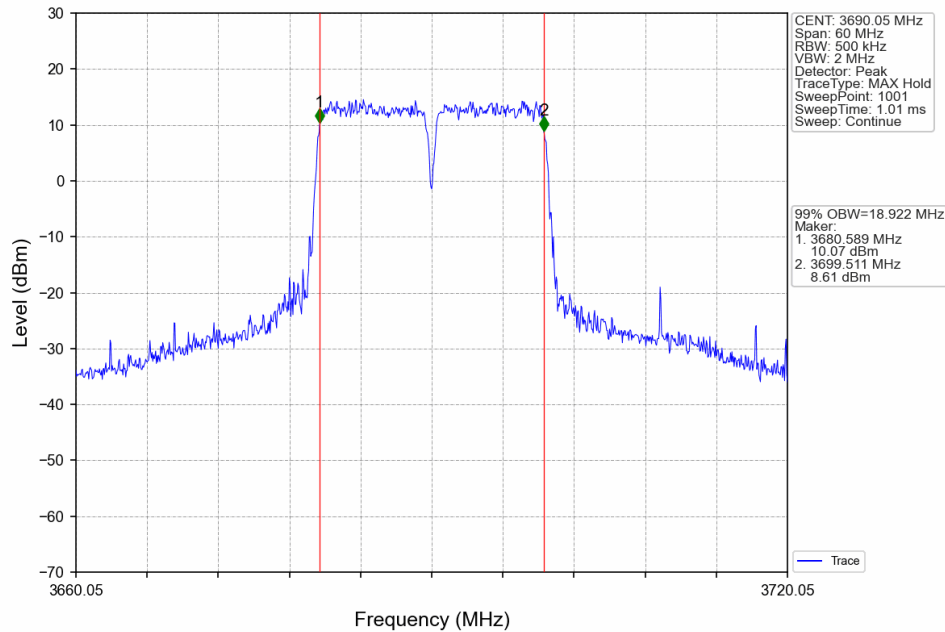
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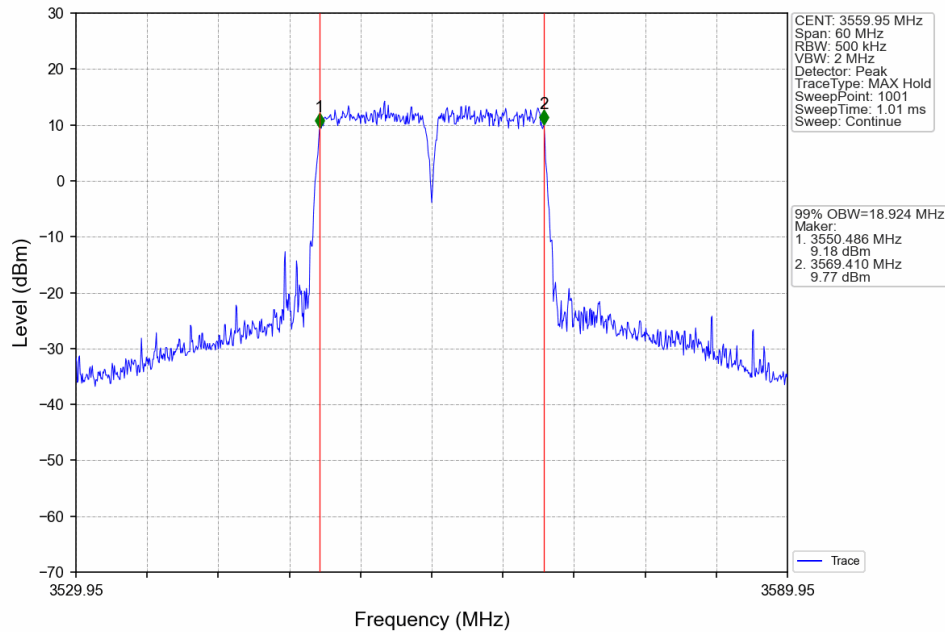
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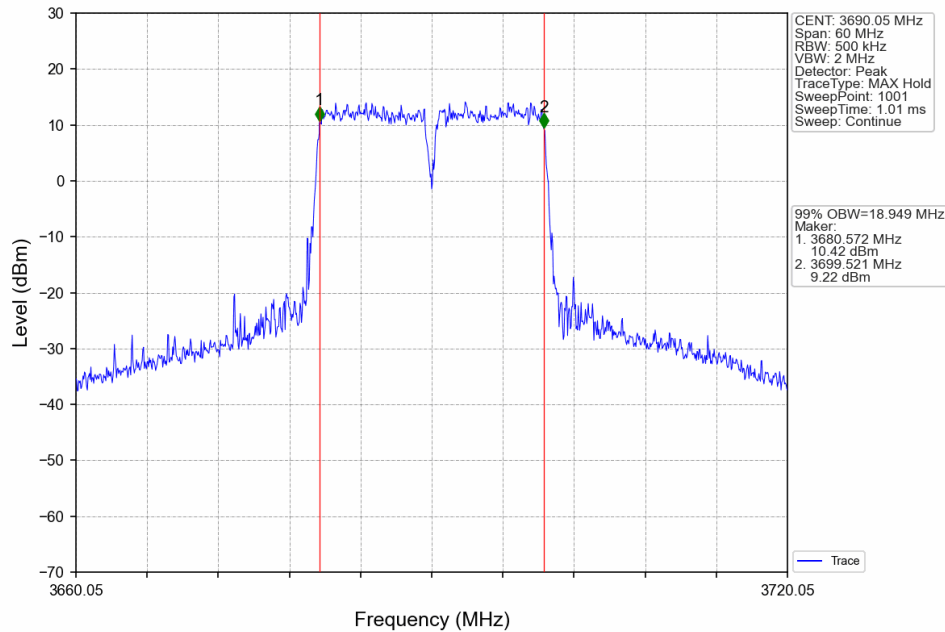
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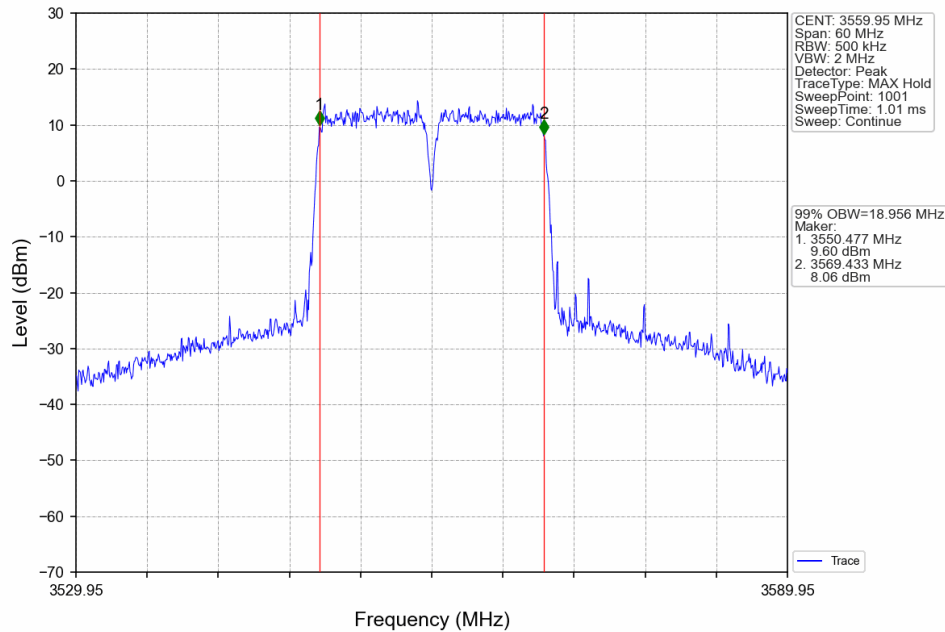
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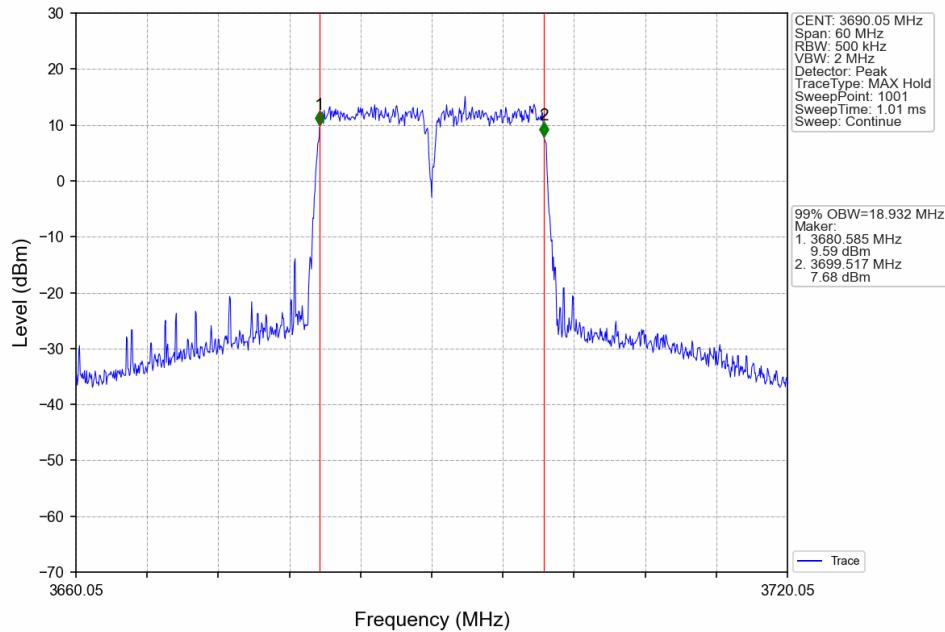
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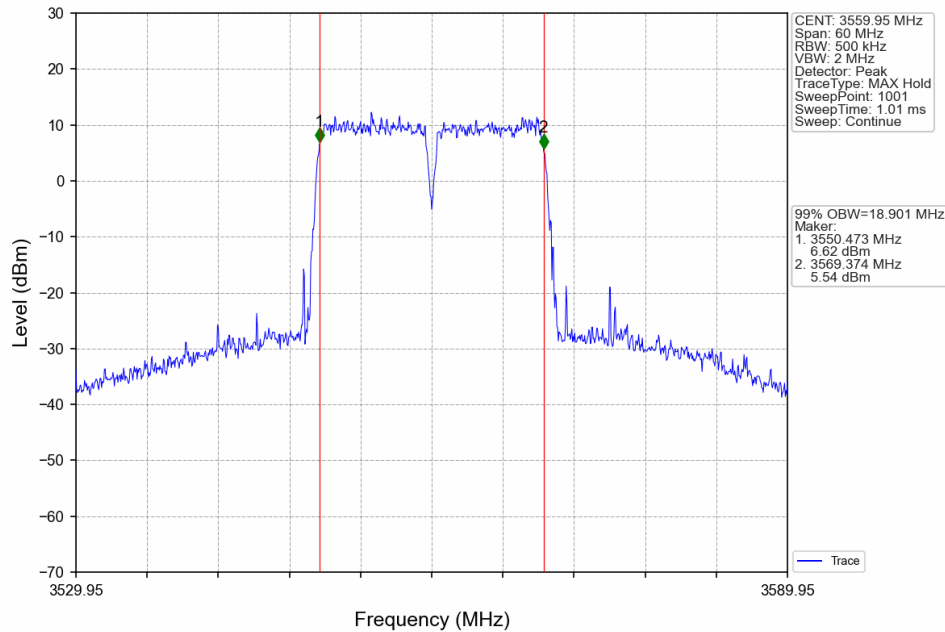
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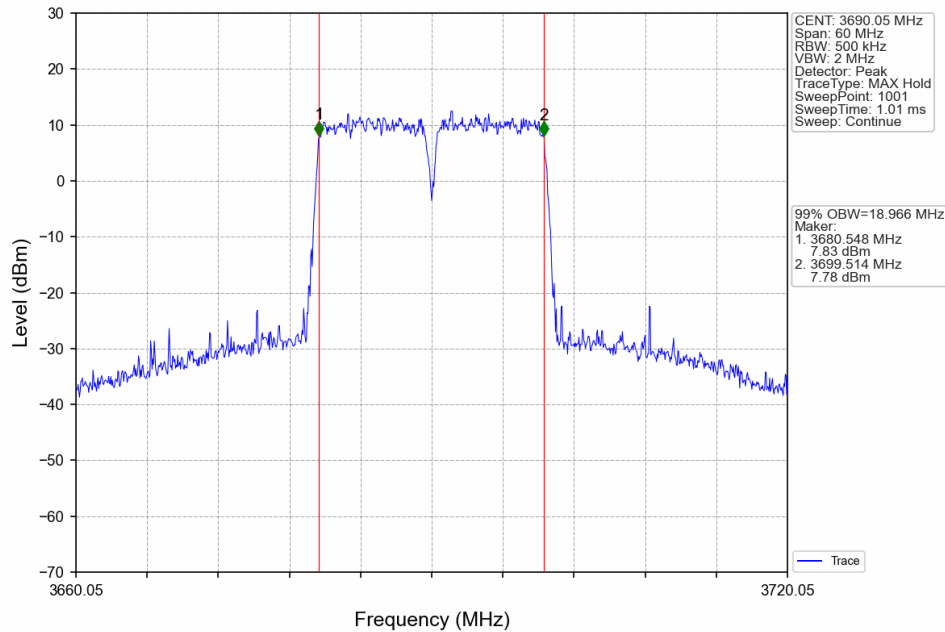
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2.2 CA_48B_NTNV_XDB

2.2.1 Test Result

Band: CA_48B / NTNV						
BW (MHz)	Modulation	Frequency (MHz)	RB Allocation	26dB Bandwidth (MHz)		Verdict
				Sum	Limit	
CC1:10 CC2:10	CC1: QPSK CC2: QPSK	CC1:3555 CC2:3564.9	CC1: 50@0 CC2: 50@0	20.37	/	Pass
		CC1:3685.1 CC2:3695	CC1: 50@0 CC2: 50@0	20.63	/	Pass
	CC1: 16QAM CC2: 16QAM	CC1:3555 CC2:3564.9	CC1: 50@0 CC2: 50@0	20.43	/	Pass
		CC1:3685.1 CC2:3695	CC1: 50@0 CC2: 50@0	20.73	/	Pass
	CC1: 64QAM CC2: 64QAM	CC1:3555 CC2:3564.9	CC1: 50@0 CC2: 50@0	20.18	/	Pass
		CC1:3685.1 CC2:3695	CC1: 50@0 CC2: 50@0	20.23	/	Pass
	CC1: 256QAM CC2: 256QAM	CC1:3555 CC2:3564.9	CC1: 50@0 CC2: 50@0	20.46	/	Pass
		CC1:3685.1 CC2:3695	CC1: 50@0 CC2: 50@0	20.29	/	Pass



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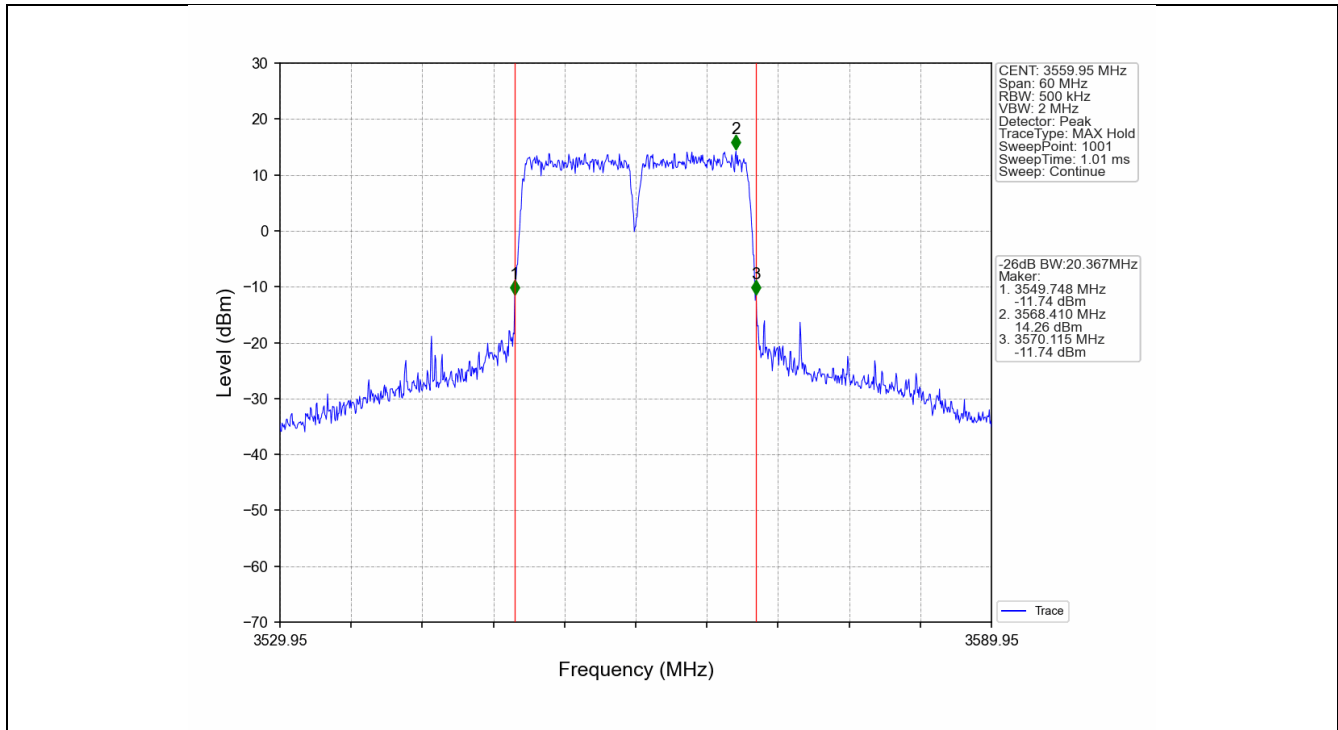
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2.2.2 Test Graph



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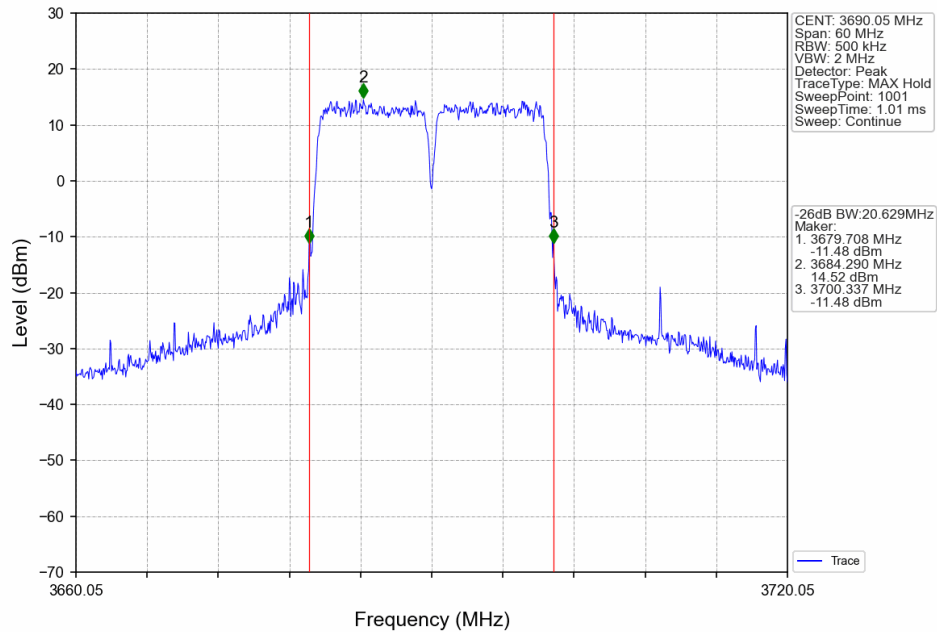
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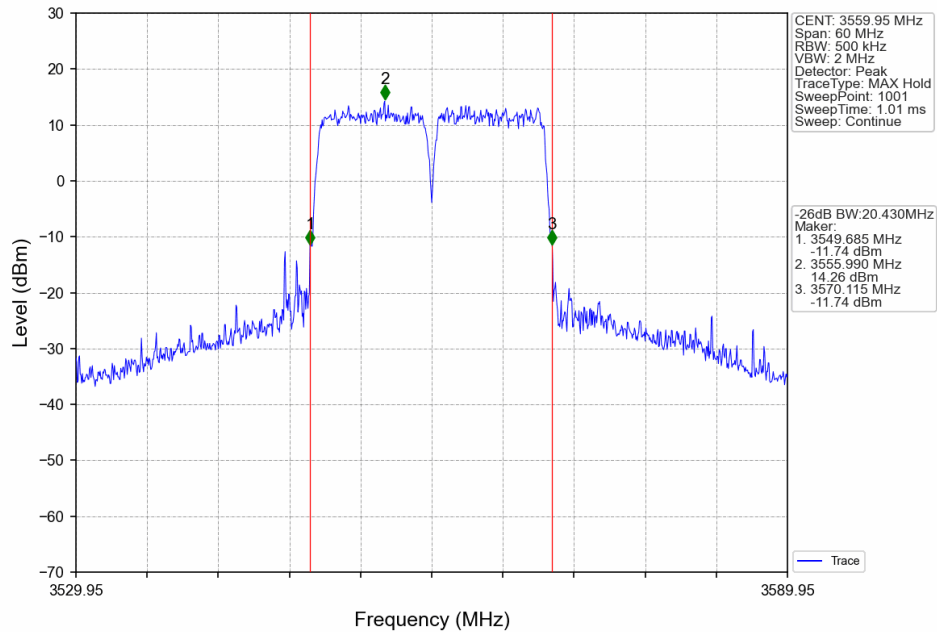
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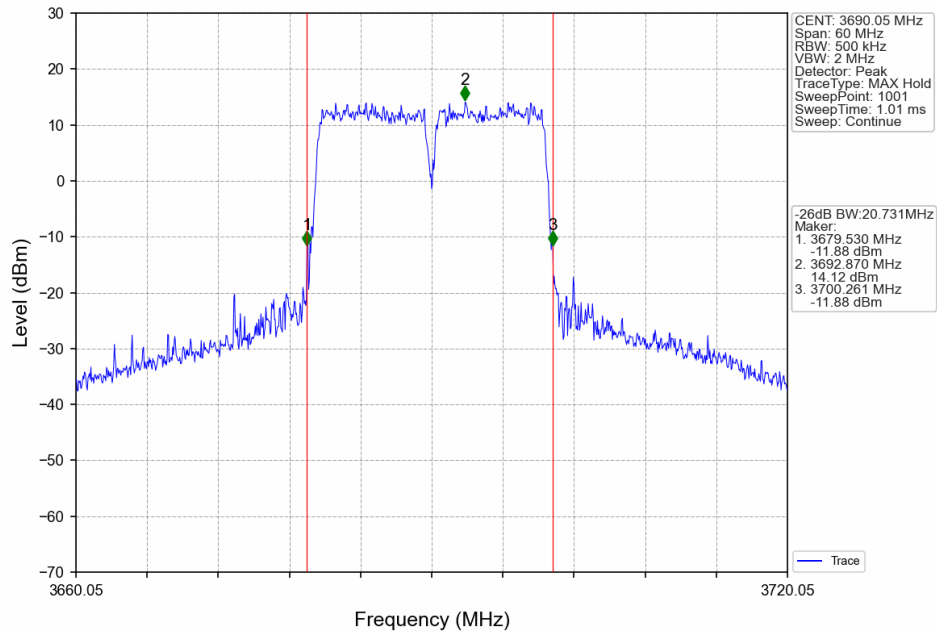
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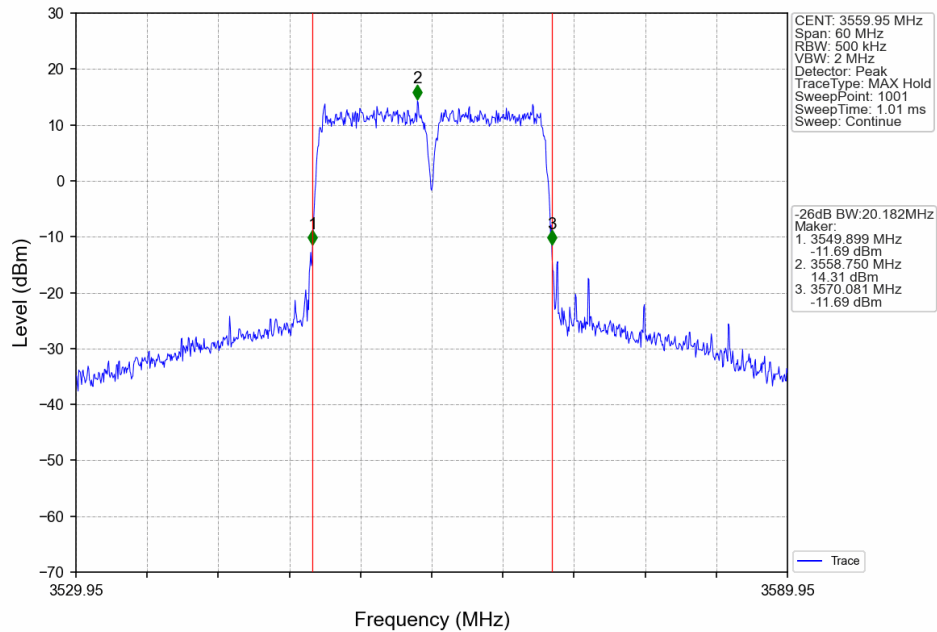
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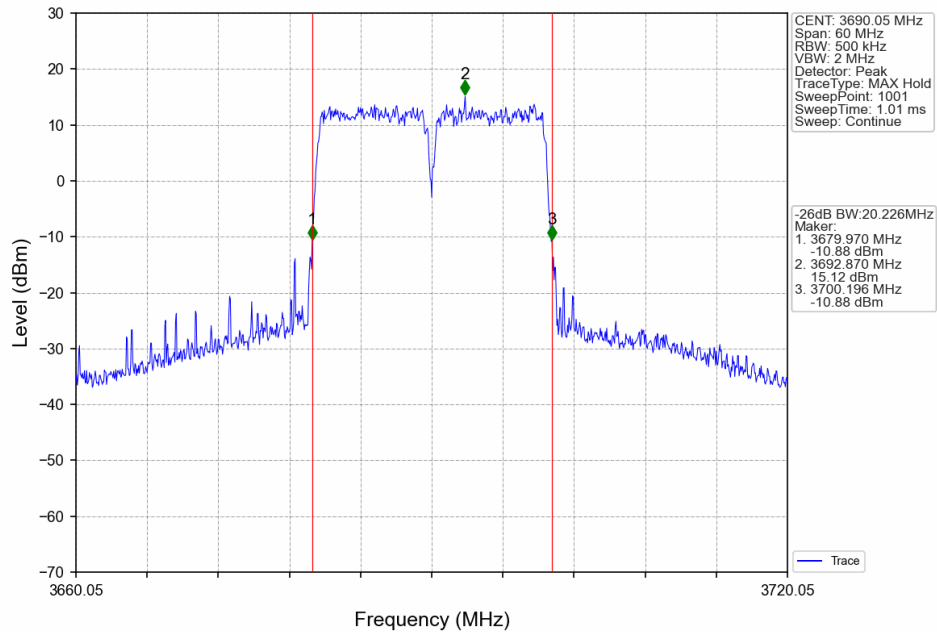
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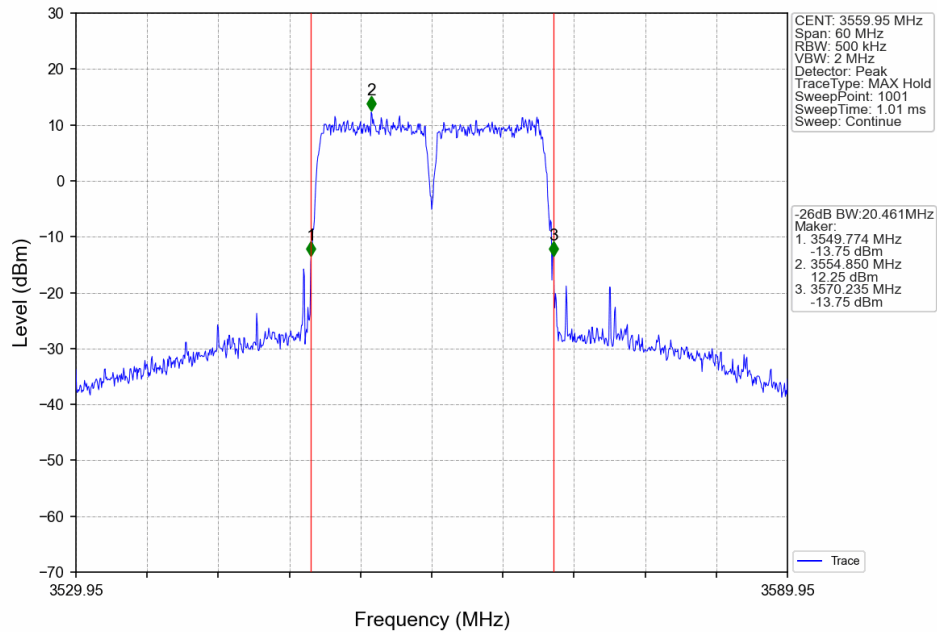
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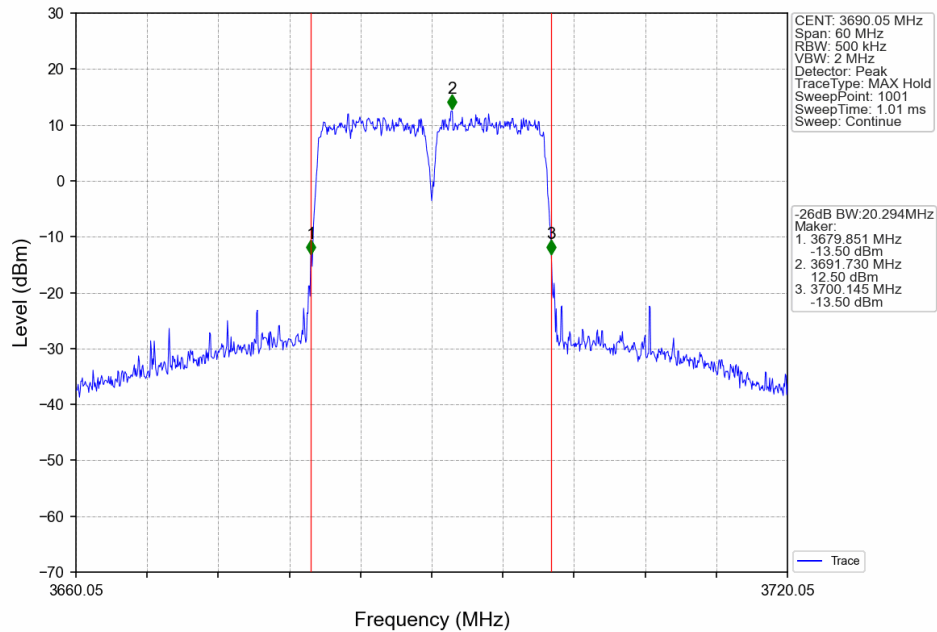
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3. Spurious Emission & Band Edge

3.1 CA_48B_NTNV

3.1.1 Test Result

Band: CA_48B / NTN								
BW (MHz)	Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
				CC1	CC2	Sum	Limit	
CC1:10 CC2:10	CC1: QPSK CC2: QPSK	CC1:3555 CC2:3564.9	CC1: 1@0 CC2: 1@0	Refer To Test Graph				Pass
			CC1: 50@0 CC2: 50@0	Refer To Test Graph				Pass
		CC1:3685.1 CC2:3695	CC1: 1@0 CC2: 1@0	Refer To Test Graph				Pass
			CC1: 1@49 CC2: 1@49	Refer To Test Graph				Pass
			CC1: 50@0 CC2: 50@0	Refer To Test Graph				Pass



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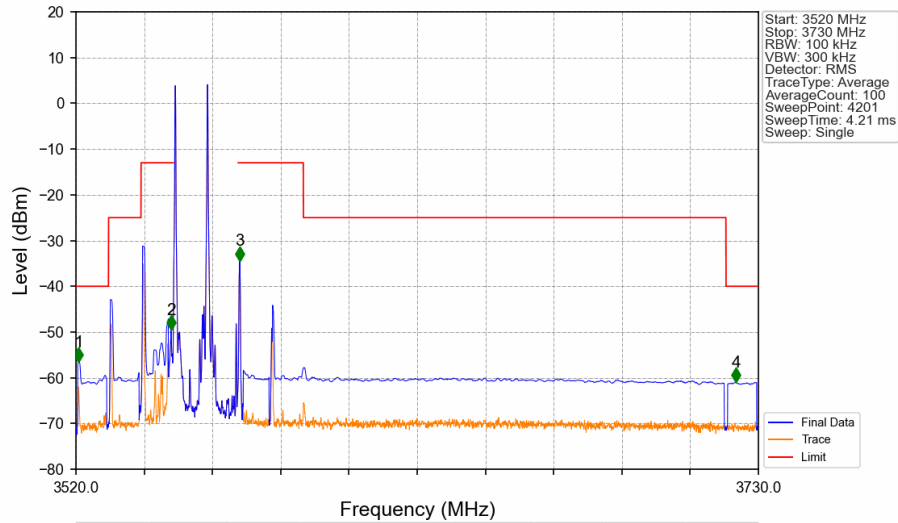
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3.1.2 Test Graph



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3548.95	1	CHP	1	3520.850	-56.54	-40	Pass
3548.95	3549.95	0.1	/	2	3549.250	-49.51	-13	Pass
3549.95	3569.95	0.1	/	/	/	/	/	/
3569.95	3570.95	0.1	/	3	3570.350	-34.41	-13	Pass
3570.95	3730	1	CHP	4	3723.150	-60.98	-40	Pass



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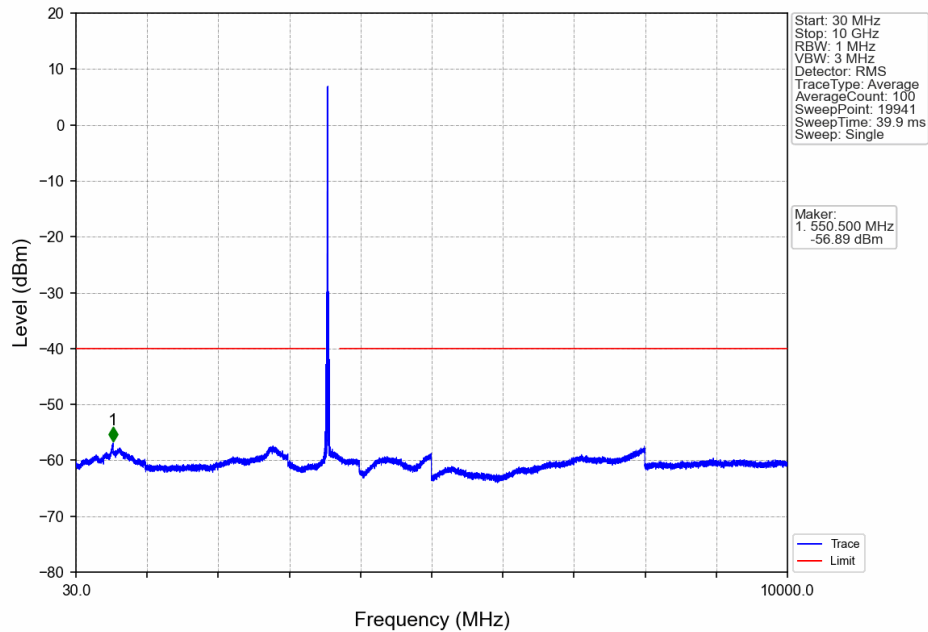
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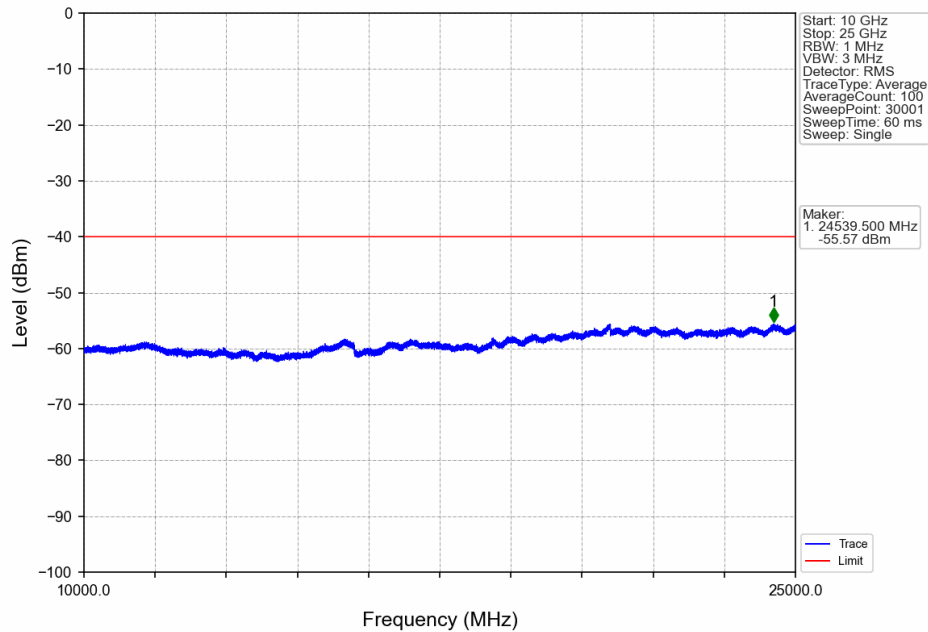
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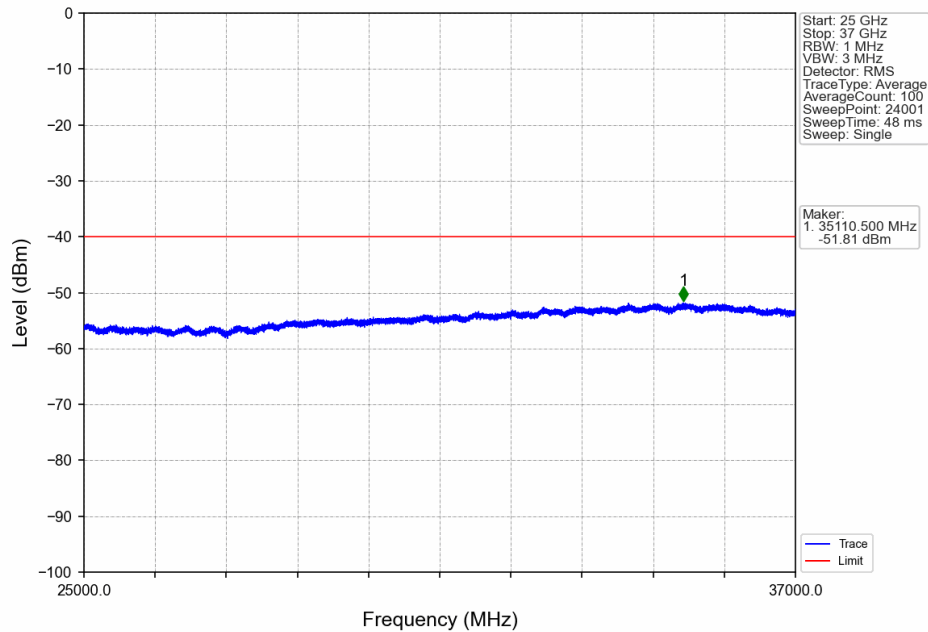
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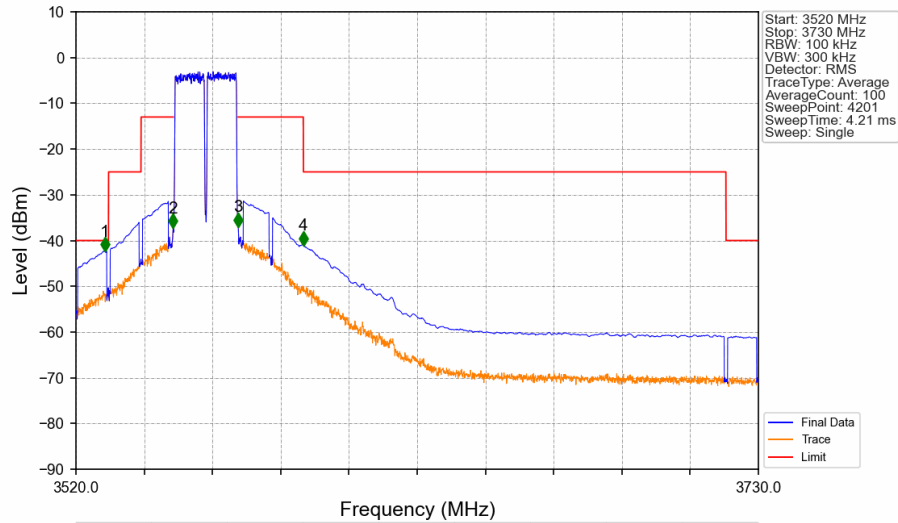
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3520	3548.95	1	CHP	1	3528.850	-42.33	-40	Pass
3548.95	3549.95	0.1	/	2	3549.900	-37.21	-13	Pass
3549.95	3569.95	0.1	/	/	/	/	/	/
3569.95	3570.95	0.1	/	3	3569.950	-37.00	-13	Pass
3570.95	3730	1	CHP	4	3590.000	-41.06	-25	Pass



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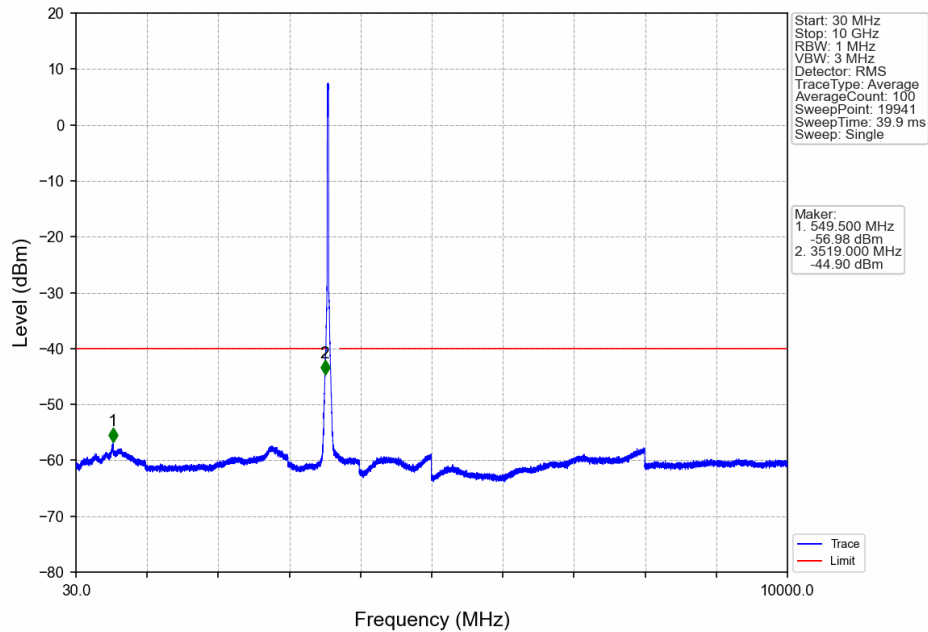
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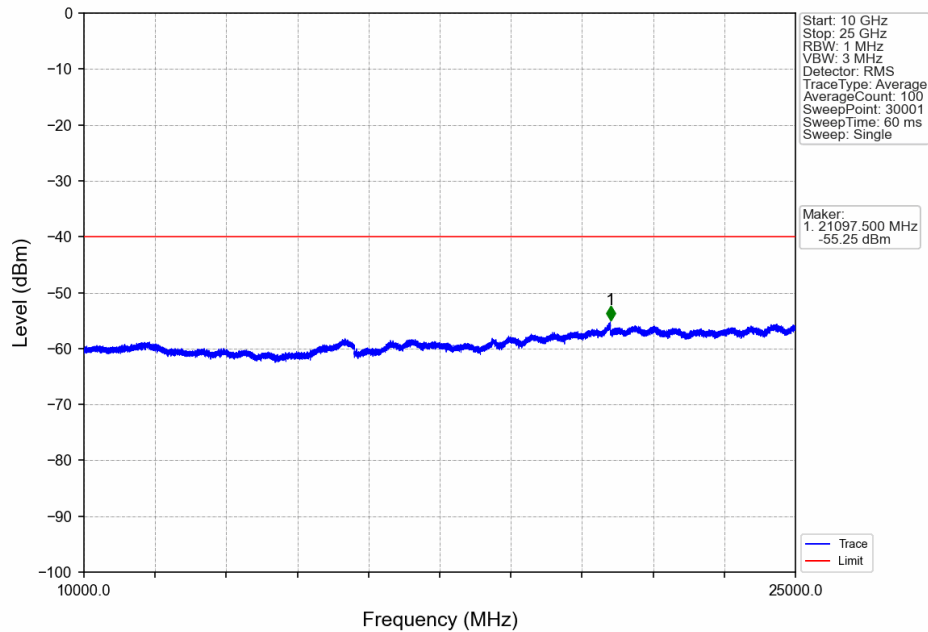
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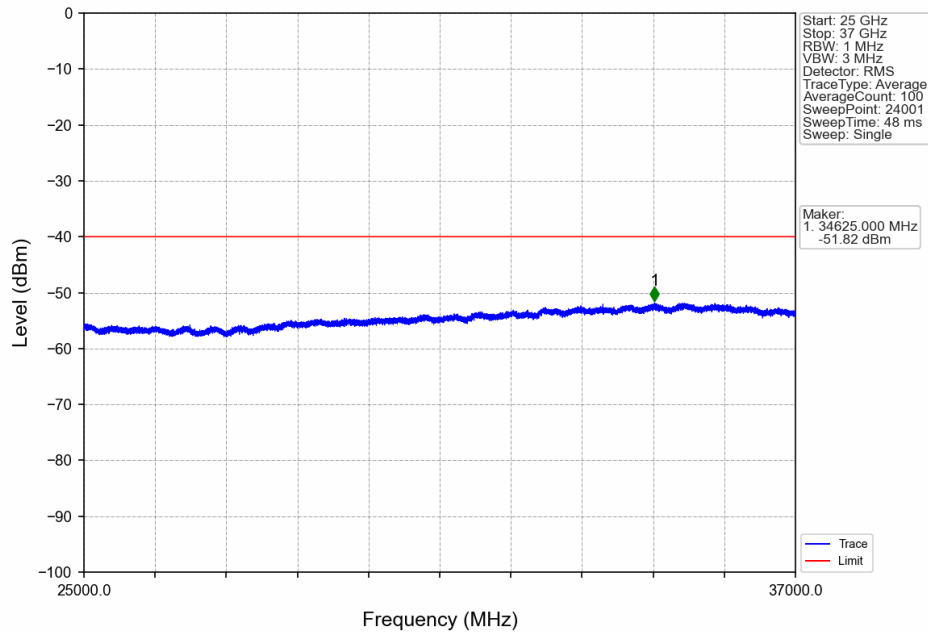
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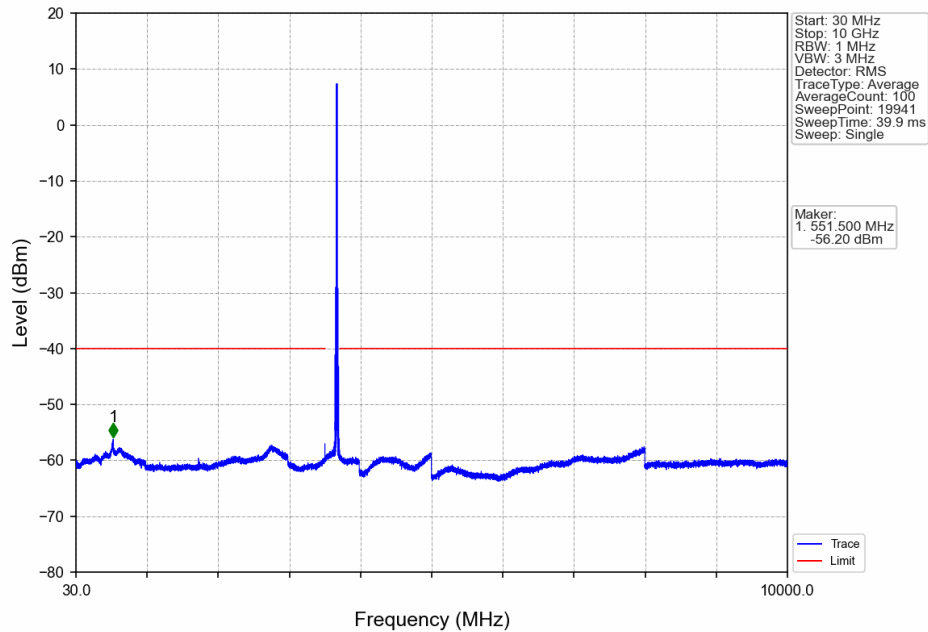
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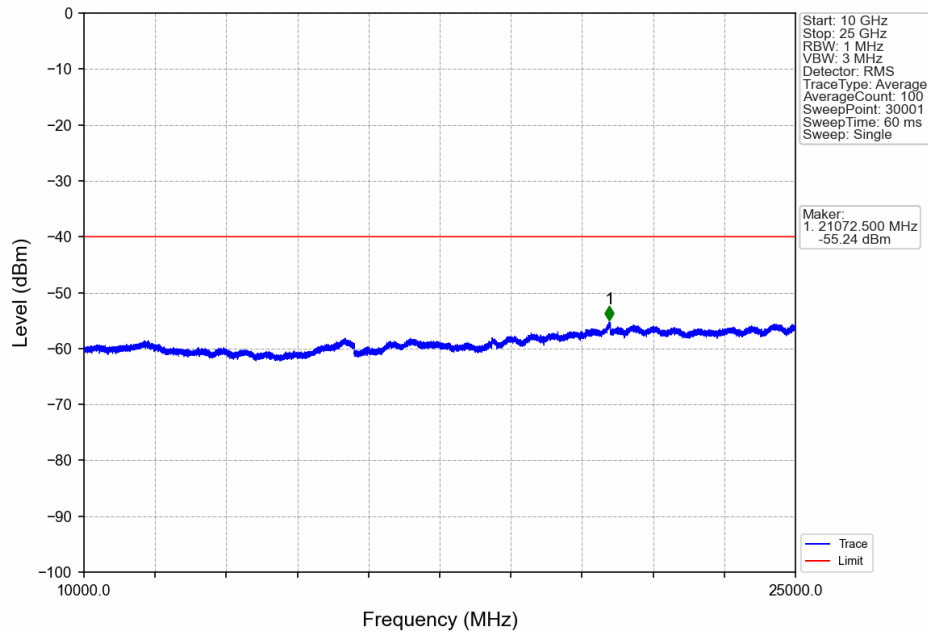
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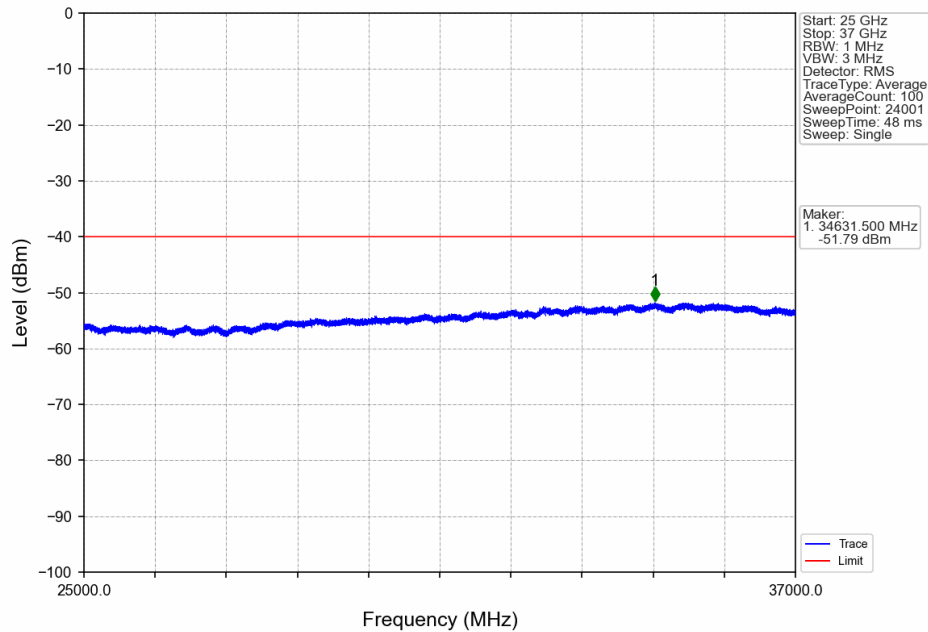
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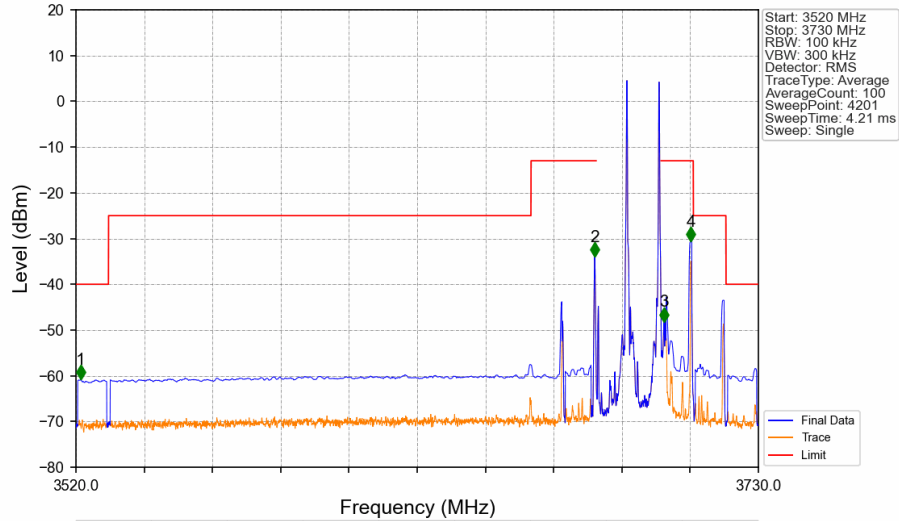
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3679.05	3680.05	0.1	/	2	3679.600	-33.97	-13	Pass
3680.05	3700.05	0.1	/	/	/	/	/	/
3700.05	3701.05	0.1	/	3	3700.950	-48.17	-13	Pass
3701.05	3730	1	CHP	4	3709.200	-30.68	-13	Pass



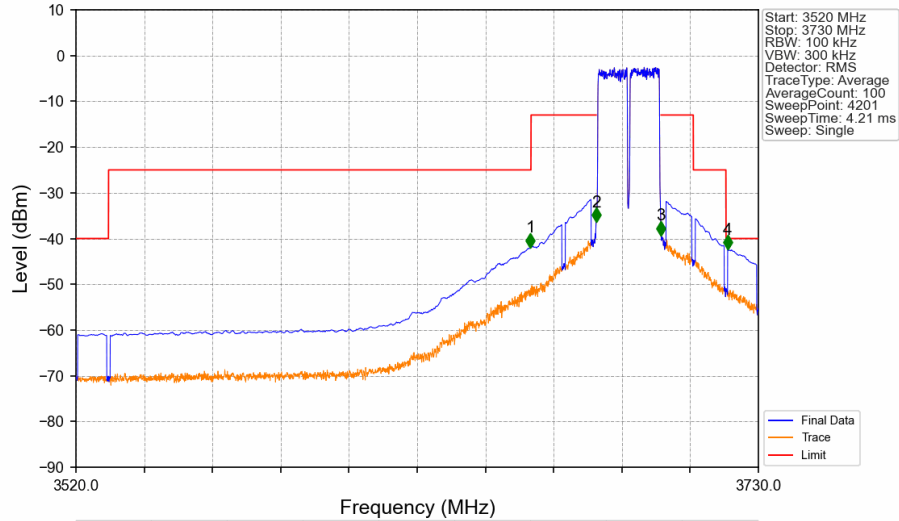
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3679.05	1	CHP	1	3659.850	-41.96	-25	Pass
3679.05	3680.05	0.1	/	2	3680.050	-36.35	-13	Pass
3680.05	3700.05	0.1	/	/	/	/	/	/
3700.05	3701.05	0.1	/	3	3700.050	-39.30	-13	Pass
3701.05	3730	1	CHP	4	3720.550	-42.42	-40	Pass



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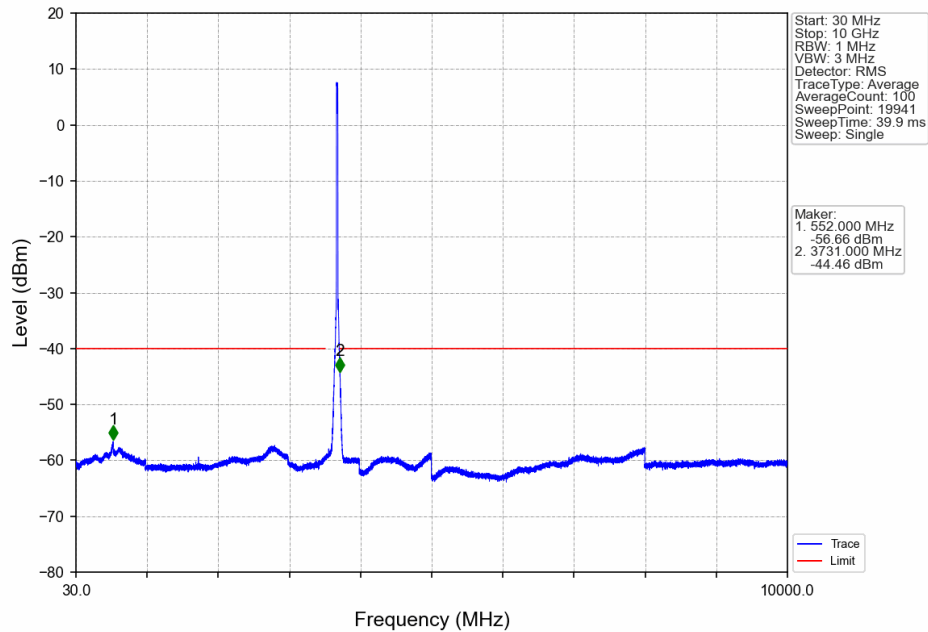
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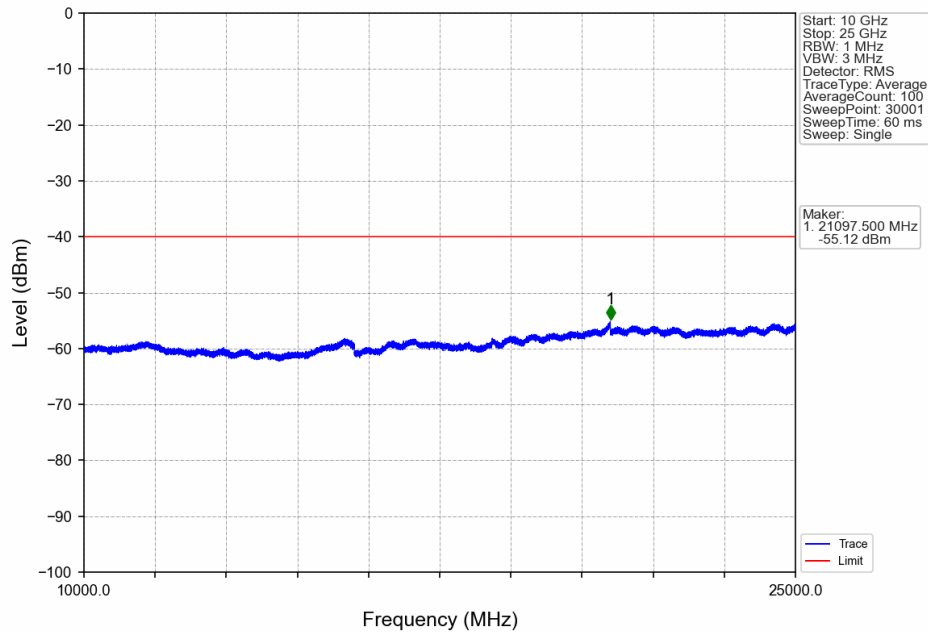
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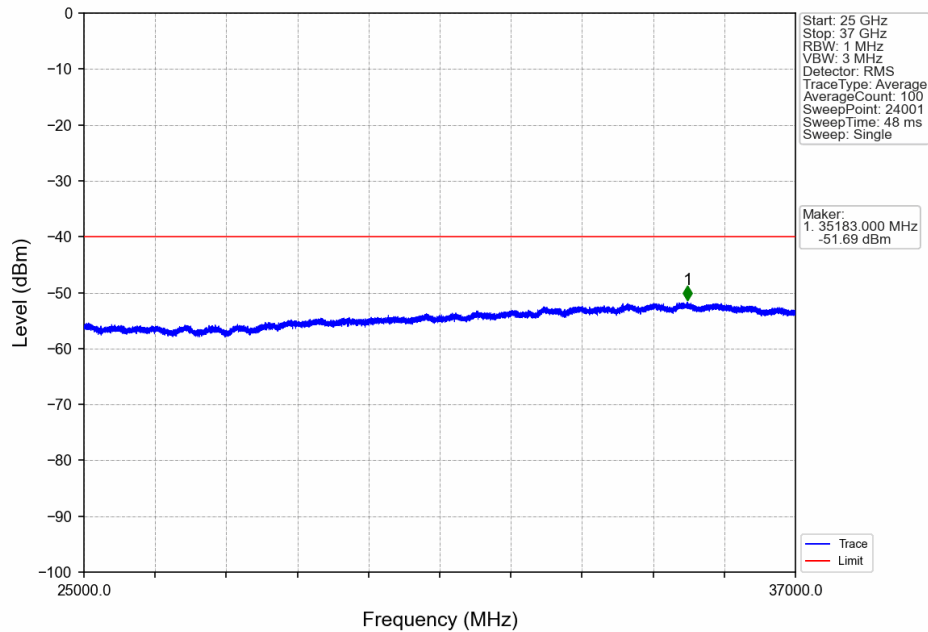
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4. Adjacent Channel Leakage Ratio

4.1 CA_48B_NTNV

4.1.1 Test Result

Band: CA_48B / NTNv								
BW (MHz)	Modulation	Frequency (MHz)	RB Allocation	Adjacent Channel Leakage Ratio				Verdict
				CC1	CC2	Sum	Limit	
CC1:10 CC2:10	CC1: QPSK CC2: QPSK	CC1:3555 CC2:3564.9	CC1: 1@0 CC2: 1@0	Refer To Test Graph				Pass
			CC1: 1@49 CC2: 1@49	Refer To Test Graph				Pass
			CC1: 50@0 CC2: 50@0	Refer To Test Graph				Pass
		CC1:3685.1 CC2:3695	CC1: 1@0 CC2: 1@0	Refer To Test Graph				Pass
			CC1: 1@49 CC2: 1@49	Refer To Test Graph				Pass
			CC1: 50@0 CC2: 50@0	Refer To Test Graph				Pass
	CC1: 16QAM CC2: 16QAM	CC1:3555 CC2:3564.9	CC1: 1@0 CC2: 1@0	Refer To Test Graph				Pass
			CC1: 1@49 CC2: 1@49	Refer To Test Graph				Pass
			CC1: 50@0 CC2: 50@0	Refer To Test Graph				Pass
		CC1:3685.1 CC2:3695	CC1: 1@0 CC2: 1@0	Refer To Test Graph				Pass
			CC1: 1@49 CC2: 1@49	Refer To Test Graph				Pass
			CC1: 50@0 CC2: 50@0	Refer To Test Graph				Pass
	CC1: 64QAM CC2: 64QAM	CC1:3555 CC2:3564.9	CC1: 1@0 CC2: 1@0	Refer To Test Graph				Pass
			CC1: 1@49 CC2: 1@49	Refer To Test Graph				Pass
			CC1: 50@0 CC2: 50@0	Refer To Test Graph				Pass
		CC1:3685.1 CC2:3695	CC1: 1@0 CC2: 1@0	Refer To Test Graph				Pass
			CC1: 1@49 CC2: 1@49	Refer To Test Graph				Pass
			CC1: 50@0 CC2: 50@0	Refer To Test Graph				Pass
	CC1: 256QAM CC2: 256QAM	CC1:3555 CC2:3564.9	CC1: 1@0 CC2: 1@0	Refer To Test Graph				Pass
			CC1: 1@49 CC2: 1@49	Refer To Test Graph				Pass
			CC1: 50@0	Refer To Test Graph				Pass



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			CC2: 50@0		
		CC1:3685.1 CC2:3695	CC1: 1@0 CC2: 1@0	Refer To Test Graph	Pass
			CC1: 1@49 CC2: 1@49	Refer To Test Graph	Pass
			CC1: 50@0 CC2: 50@0	Refer To Test Graph	Pass



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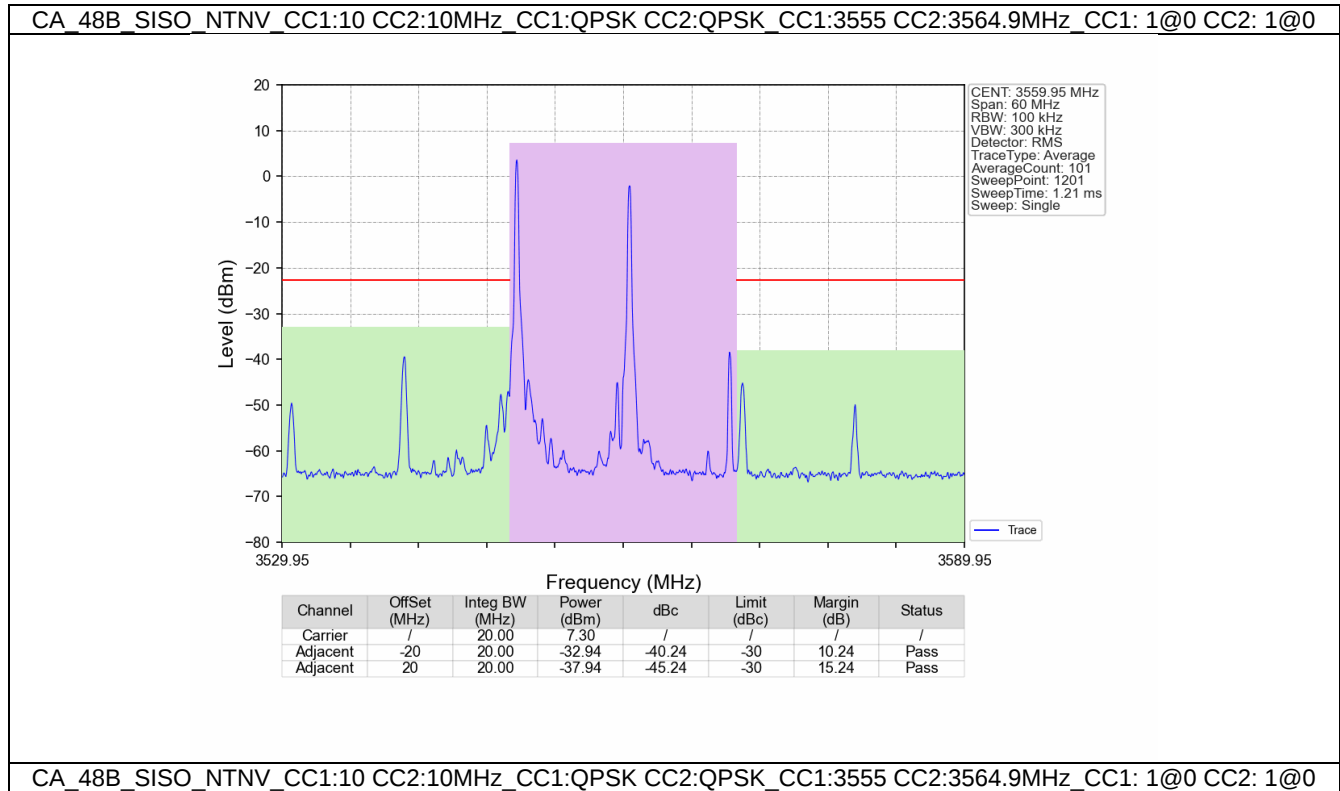
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4.1.2 Test Graph



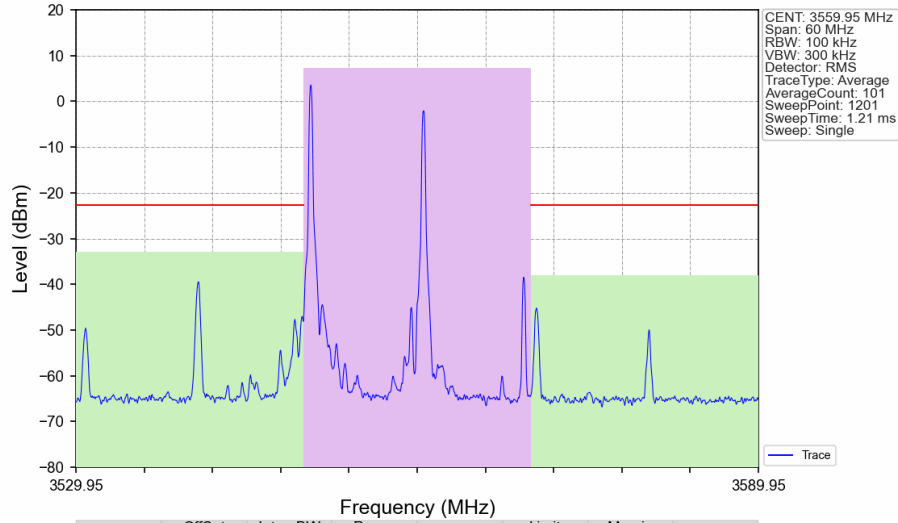
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Carrier	/	20.00	7.30	/	/	/	/
Adjacent	-20	20.00	-32.94	-40.24	-30	10.24	Pass
Adjacent	20	20.00	-37.94	-45.24	-30	15.24	Pass



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CA_48B_SISO_NTNV_CC1:10_CC2:10MHz_CC1:QPSK_CC2:QPSK_CC1:3555_CC2:3564.9MHz_CC1: 1@49_CC2: 1@49



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.28	/	/	/	/
Adjacent	-20	20.00	-34.80	-42.08	-30	12.08	Pass
Adjacent	20	20.00	-37.30	-44.58	-30	14.58	Pass

CA_48B_SISO_NTNV_CC1:10_CC2:10MHz_CC1:QPSK_CC2:QPSK_CC1:3555_CC2:3564.9MHz_CC1: 1@49_CC2: 1@49



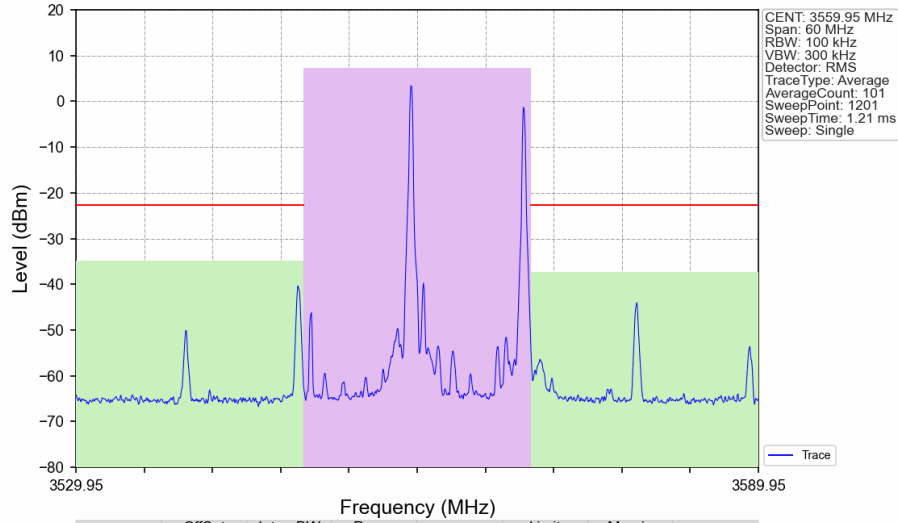
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Carrier	/	20.00	7.28	/	/	/	/
Adjacent	-20	20.00	-34.80	-42.08	-30	12.08	Pass
Adjacent	20	20.00	-37.30	-44.58	-30	14.58	Pass



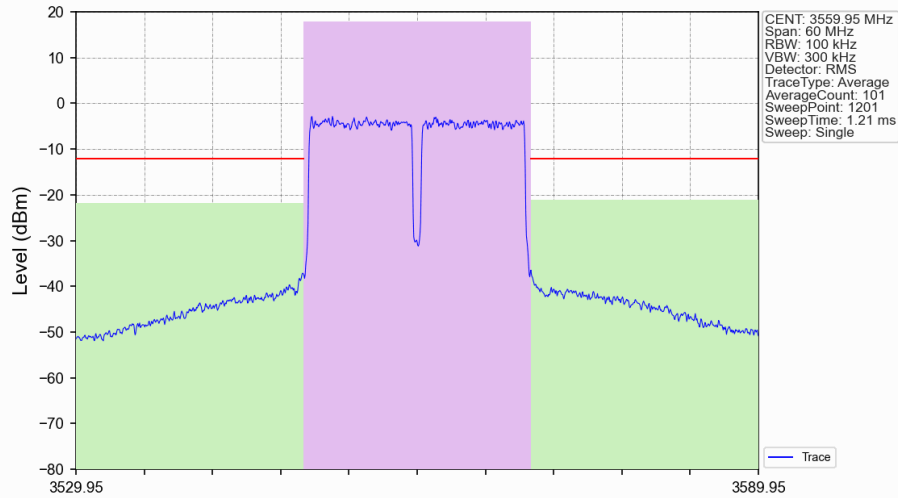
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Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	17.85	/	/	/	/
Adjacent	-20	20.00	-21.74	-39.59	-30	9.59	Pass
Adjacent	20	20.00	-21.05	-38.90	-30	8.90	Pass

CA_48B_SISO_NTNV_CC1:10_CC2:10MHz_CC1:QPSK_CC2:QPSK_CC1:3555_CC2:3564.9MHz_CC1: 50@0_CC2: 50@0



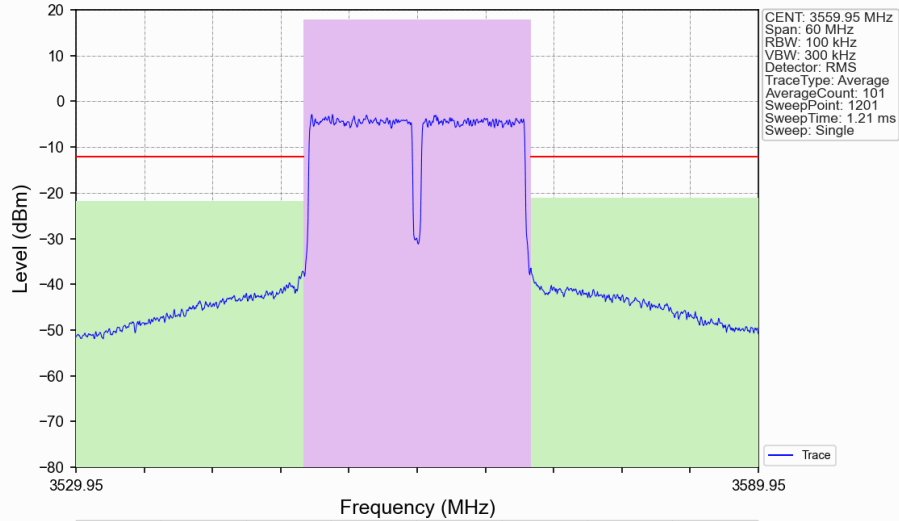
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	17.85	/	/	/	/
Adjacent	-20	20.00	-21.74	-39.59	-30	9.59	Pass
Adjacent	20	20.00	-21.05	-38.90	-30	8.90	Pass



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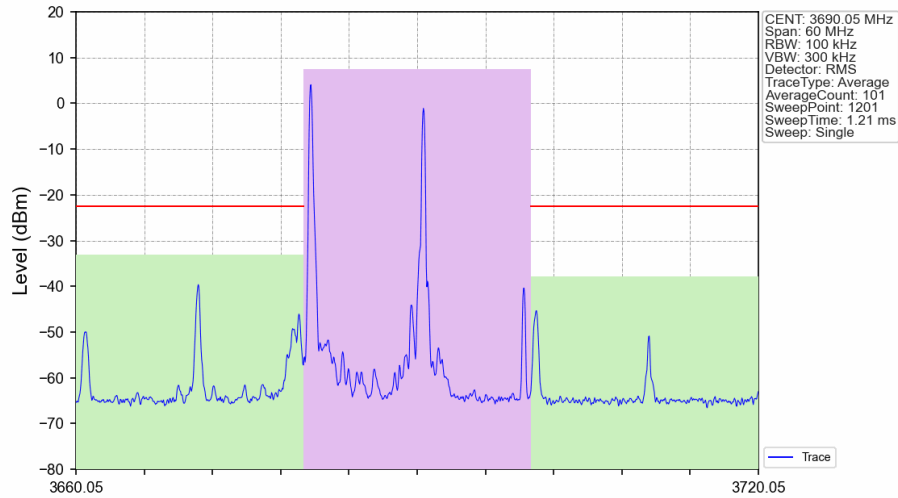
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CA_48B_SISO_NTNV_CC1:10_CC2:10MHz_CC1:QPSK_CC2:QPSK_CC1:3685.1_CC2:3695MHz_CC1: 1@0_CC2: 1@0



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.44	/	/	/	/
Adjacent	-20	20.00	-33.10	-40.54	-30	10.54	Pass
Adjacent	20	20.00	-37.80	-45.24	-30	15.24	Pass

CA_48B_SISO_NTNV_CC1:10_CC2:10MHz_CC1:QPSK_CC2:QPSK_CC1:3685.1_CC2:3695MHz_CC1: 1@0_CC2: 1@0



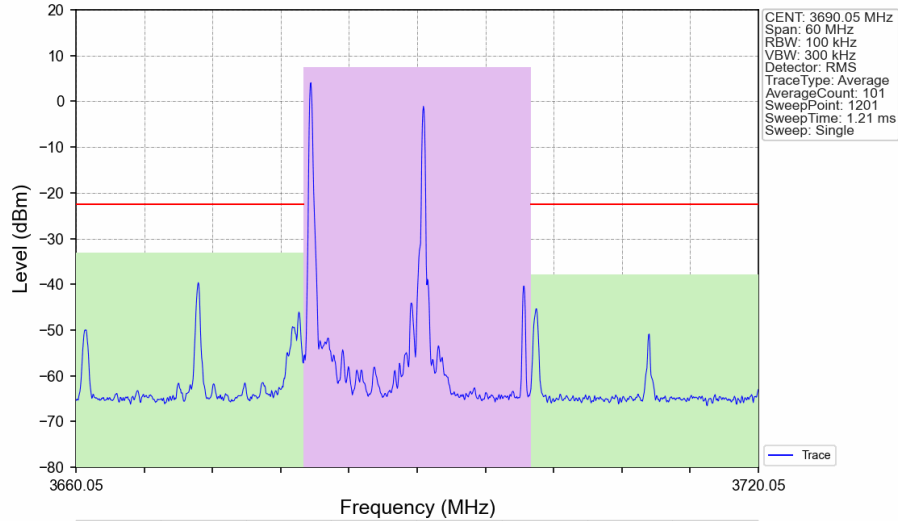
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.44	/	/	/	/
Adjacent	-20	20.00	-33.10	-40.54	-30	10.54	Pass
Adjacent	20	20.00	-37.80	-45.24	-30	15.24	Pass



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CA_48B_SISO_NTNV_CC1:10_CC2:10MHz_CC1:QPSK_CC2:QPSK_CC1:3685.1_CC2:3695MHz_CC1: 1@49_CC2: 1@49



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.37	/	/	/	/
Adjacent	-20	20.00	-33.80	-41.17	-30	11.17	Pass
Adjacent	20	20.00	-35.23	-42.60	-30	12.60	Pass

CA_48B_SISO_NTNV_CC1:10_CC2:10MHz_CC1:QPSK_CC2:QPSK_CC1:3685.1_CC2:3695MHz_CC1: 1@49_CC2: 1@49



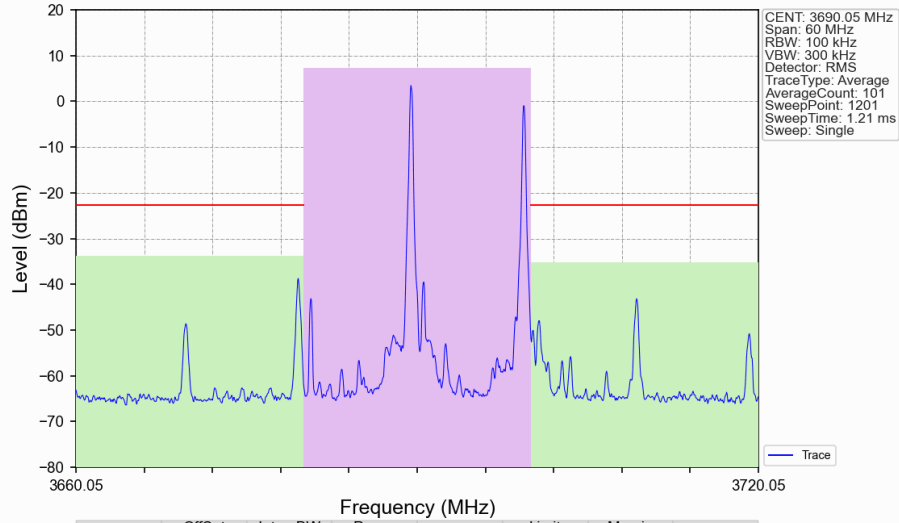
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.37	/	/	/	/
Adjacent	-20	20.00	-33.80	-41.17	-30	11.17	Pass
Adjacent	20	20.00	-35.23	-42.60	-30	12.60	Pass



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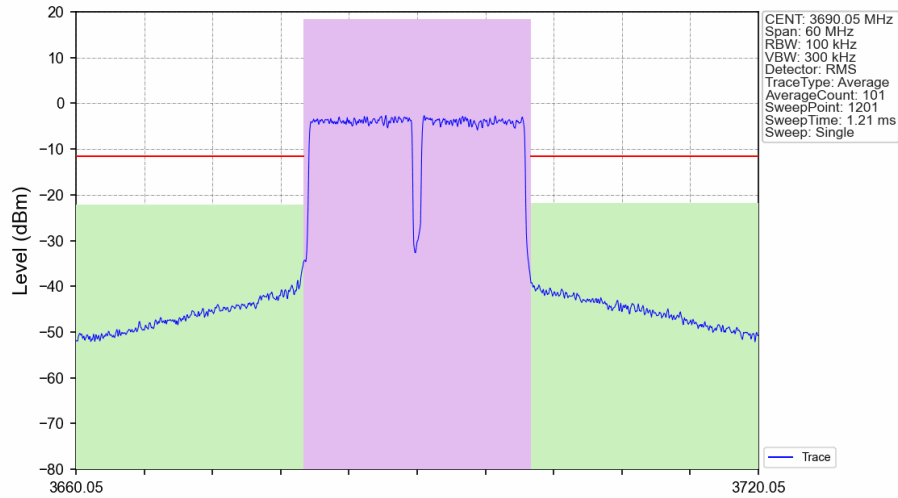
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CA_48B_SISO_NTNV_CC1:10_CC2:10MHz_CC1:QPSK_CC2:QPSK_CC1:3685.1_CC2:3695MHz_CC1: 50@0_CC2: 50@0



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	18.38	/	/	/	/
Adjacent	-20	20.00	-22.19	-40.57	-30	10.57	Pass
Adjacent	20	20.00	-21.77	-40.15	-30	10.15	Pass

CA_48B_SISO_NTNV_CC1:10_CC2:10MHz_CC1:QPSK_CC2:QPSK_CC1:3685.1_CC2:3695MHz_CC1: 50@0_CC2: 50@0



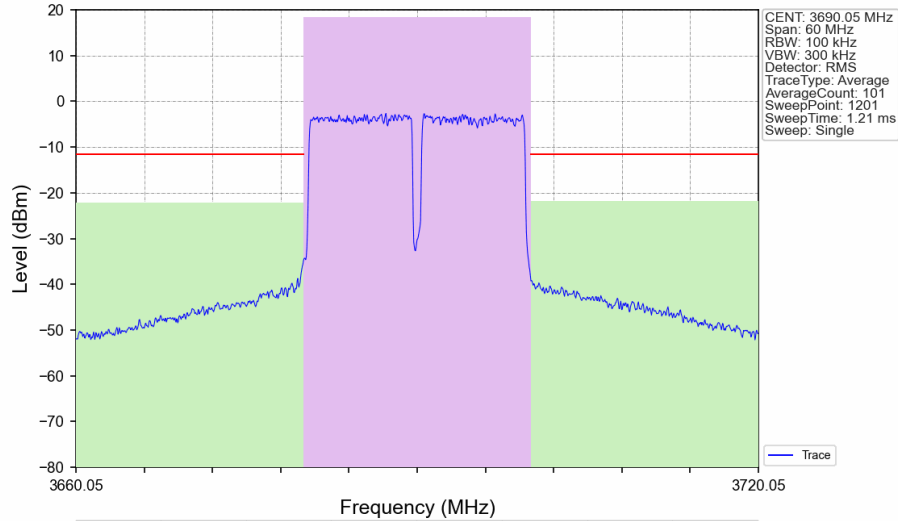
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	18.38	/	/	/	/
Adjacent	-20	20.00	-22.19	-40.57	-30	10.57	Pass
Adjacent	20	20.00	-21.77	-40.15	-30	10.15	Pass



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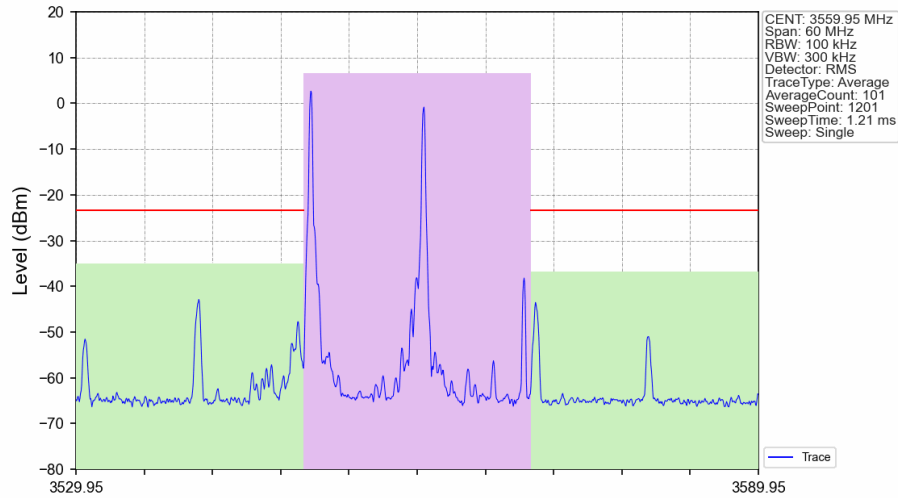
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CA_48B_SISO_NTNV_CC1:10_CC2:10MHz_CC1:16QAM_CC2:16QAM_CC1:3555_CC2:3564.9MHz_CC1: 1@0_CC2: 1@0



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	6.68	/	/	/	/
Adjacent	-20	20.00	-35.01	-41.69	-30	11.69	Pass
Adjacent	20	20.00	-36.85	-43.53	-30	13.53	Pass

CA_48B_SISO_NTNV_CC1:10_CC2:10MHz_CC1:16QAM_CC2:16QAM_CC1:3555_CC2:3564.9MHz_CC1: 1@0_CC2: 1@0



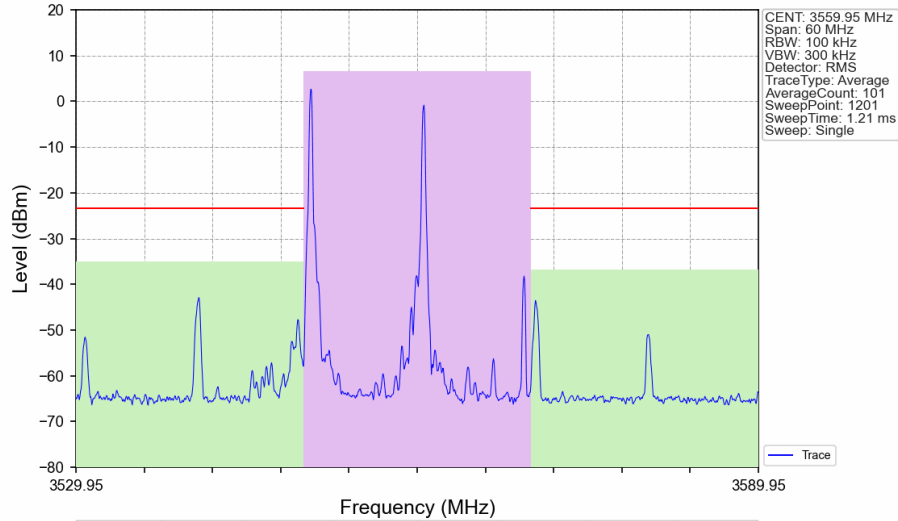
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	6.68	/	/	/	/
Adjacent	-20	20.00	-35.01	-41.69	-30	11.69	Pass
Adjacent	20	20.00	-36.85	-43.53	-30	13.53	Pass



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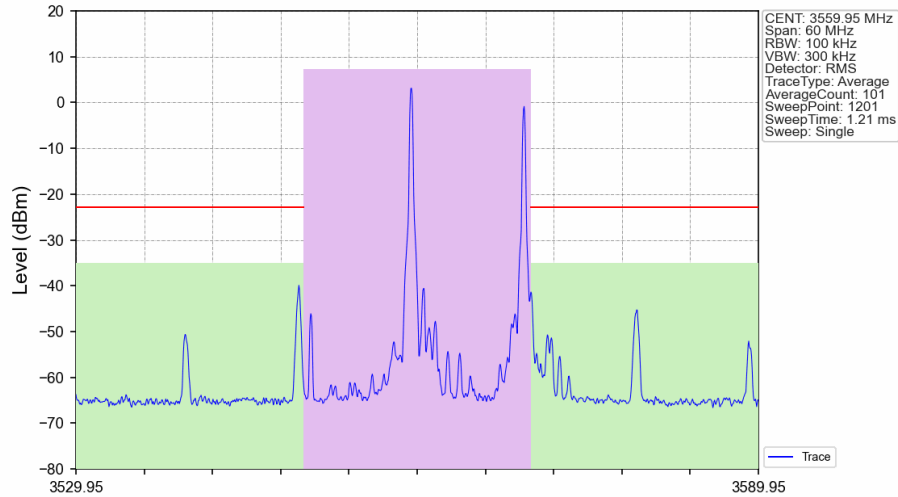
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CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:16QAM CC2:16QAM_CC1:3555 CC2:3564.9MHz_CC1: 1@49 CC2: 1@49



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.23	/	/	/	/
Adjacent	-20	20.00	-35.00	-42.23	-30	12.23	Pass
Adjacent	20	20.00	-35.06	-42.29	-30	12.29	Pass

CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:16QAM CC2:16QAM_CC1:3555 CC2:3564.9MHz_CC1: 1@49 CC2: 1@49



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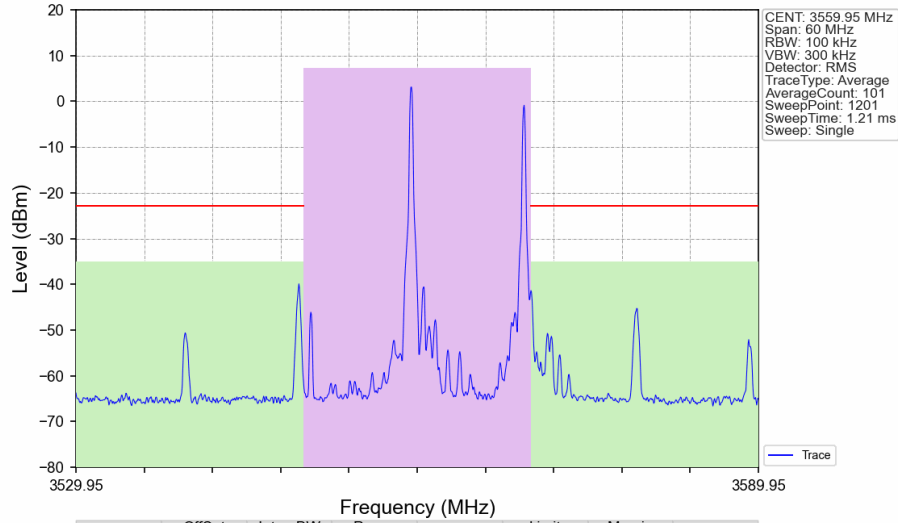
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.23	/	/	/	/
Adjacent	-20	20.00	-35.00	-42.23	-30	12.23	Pass
Adjacent	20	20.00	-35.06	-42.29	-30	12.29	Pass



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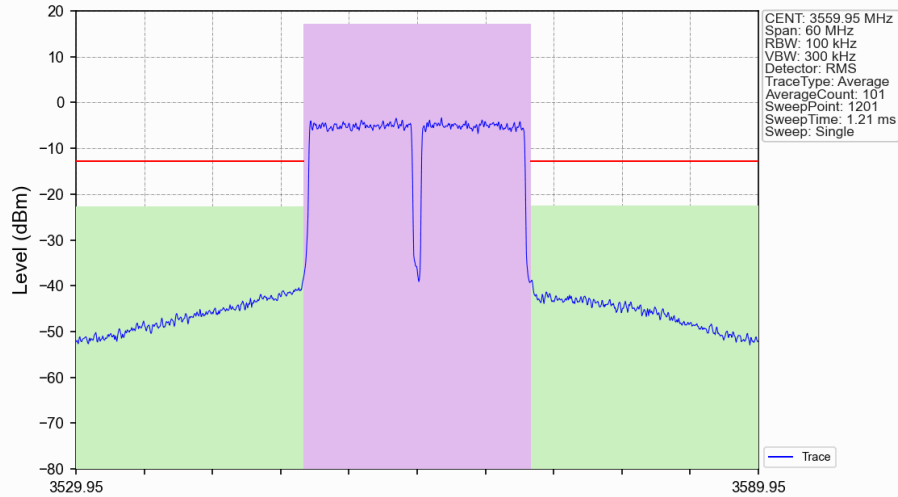
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CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:16QAM CC2:16QAM_CC1:3555 CC2:3564.9MHz_CC1: 50@0 CC2: 50@0



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	17.20	/	/	/	/
Adjacent	-20	20.00	-22.74	-39.94	-30	9.94	Pass
Adjacent	20	20.00	-22.48	-39.68	-30	9.68	Pass

CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:16QAM CC2:16QAM_CC1:3555 CC2:3564.9MHz_CC1: 50@0 CC2: 50@0



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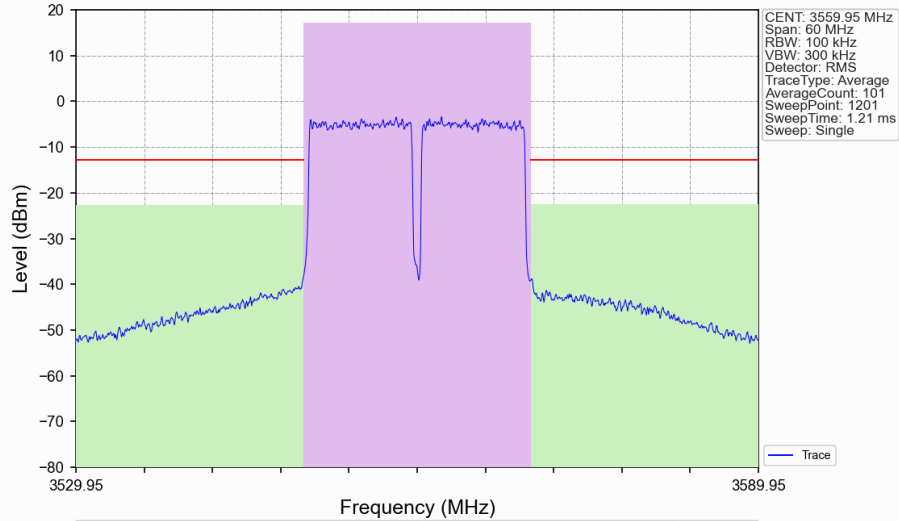
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	17.20	/	/	/	/
Adjacent	-20	20.00	-22.74	-39.94	-30	9.94	Pass
Adjacent	20	20.00	-22.48	-39.68	-30	9.68	Pass



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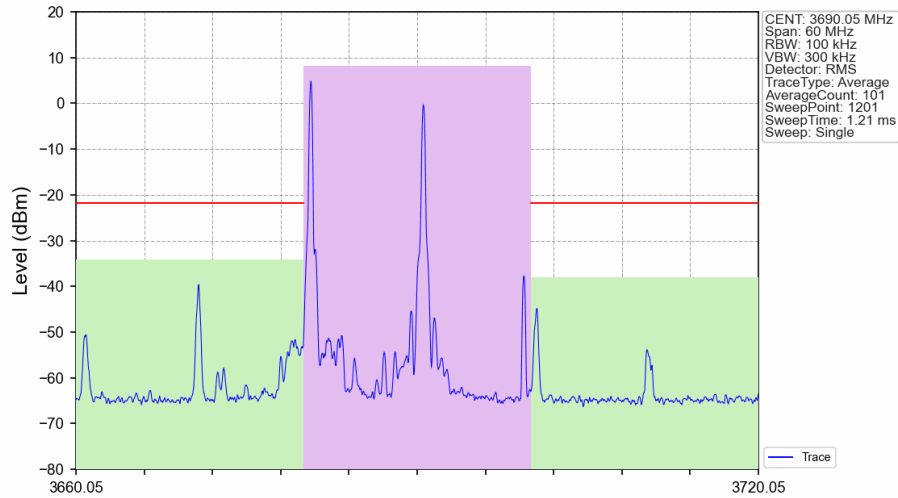
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CA_48B_SISO_NTNV_CC1:10_CC2:10MHz_CC1:16QAM_CC2:16QAM_CC1:3685.1_CC2:3695MHz_CC1: 1@0_CC2: 1@0



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	8.24	/	/	/	/
Adjacent	-20	20.00	-34.08	-42.32	-30	12.32	Pass
Adjacent	20	20.00	-38.06	-46.30	-30	16.30	Pass

CA_48B_SISO_NTNV_CC1:10_CC2:10MHz_CC1:16QAM_CC2:16QAM_CC1:3685.1_CC2:3695MHz_CC1: 1@0_CC2: 1@0



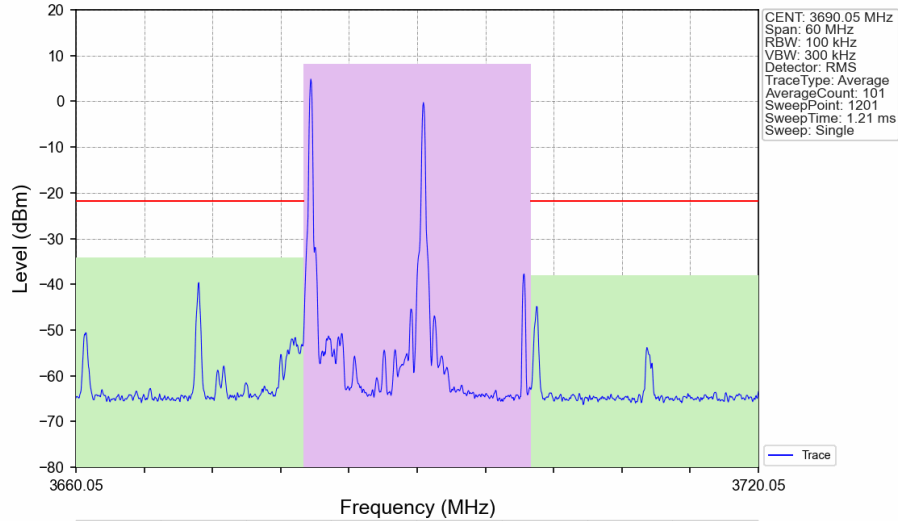
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	8.24	/	/	/	/
Adjacent	-20	20.00	-34.08	-42.32	-30	12.32	Pass
Adjacent	20	20.00	-38.06	-46.30	-30	16.30	Pass



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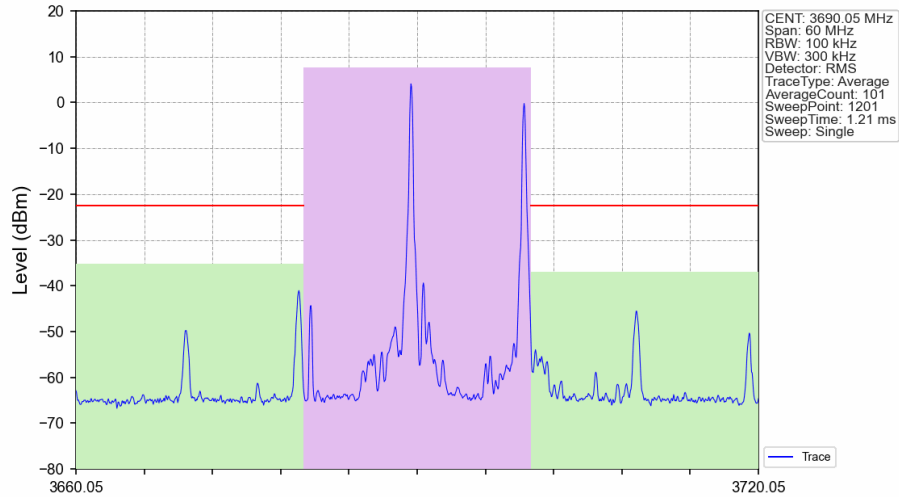
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CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:16QAM CC2:16QAM_CC1:3685.1 CC2:3695MHz_CC1: 1@49 CC2: 1@49



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.58	/	/	/	/
Adjacent	-20	20.00	-35.14	-42.72	-30	12.72	Pass
Adjacent	20	20.00	-36.88	-44.46	-30	14.46	Pass

CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:16QAM CC2:16QAM_CC1:3685.1 CC2:3695MHz_CC1: 1@49 CC2: 1@49



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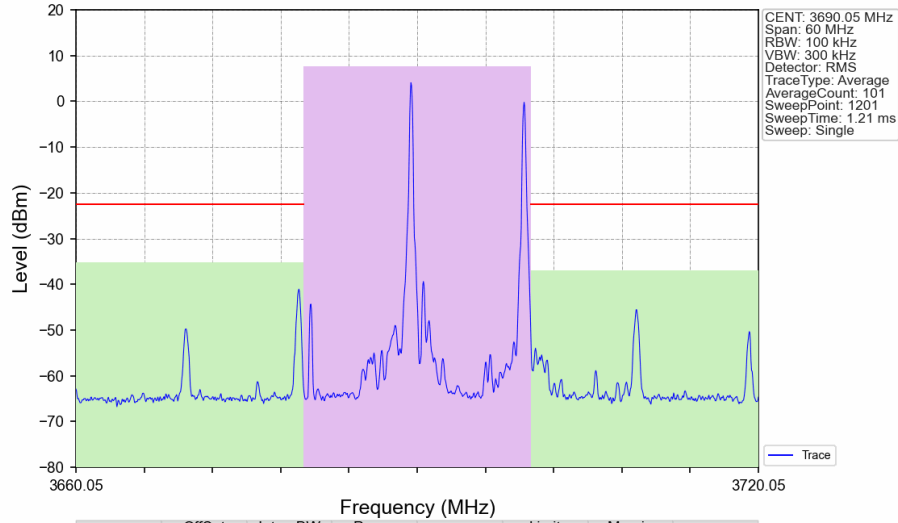
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Carrier	/	20.00	7.58	/	/	/	/
Adjacent	-20	20.00	-35.14	-42.72	-30	12.72	Pass
Adjacent	20	20.00	-36.88	-44.46	-30	14.46	Pass



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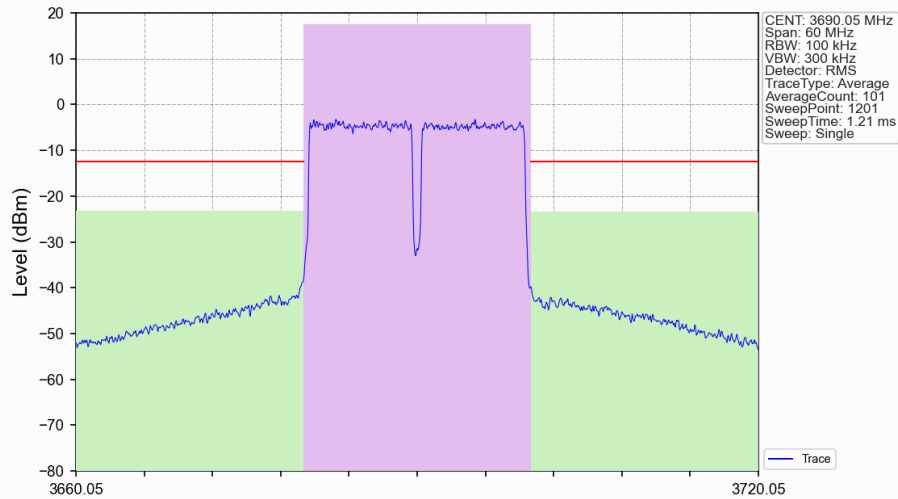
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CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:16QAM CC2:16QAM_CC1:3685.1 CC2:3695MHz_CC1: 50@0 CC2: 50@0



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	17.58	/	/	/	/
Adjacent	-20	20.00	-23.26	-40.84	-30	10.84	Pass
Adjacent	20	20.00	-23.33	-40.91	-30	10.91	Pass

CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:16QAM CC2:16QAM_CC1:3685.1 CC2:3695MHz_CC1: 50@0 CC2: 50@0



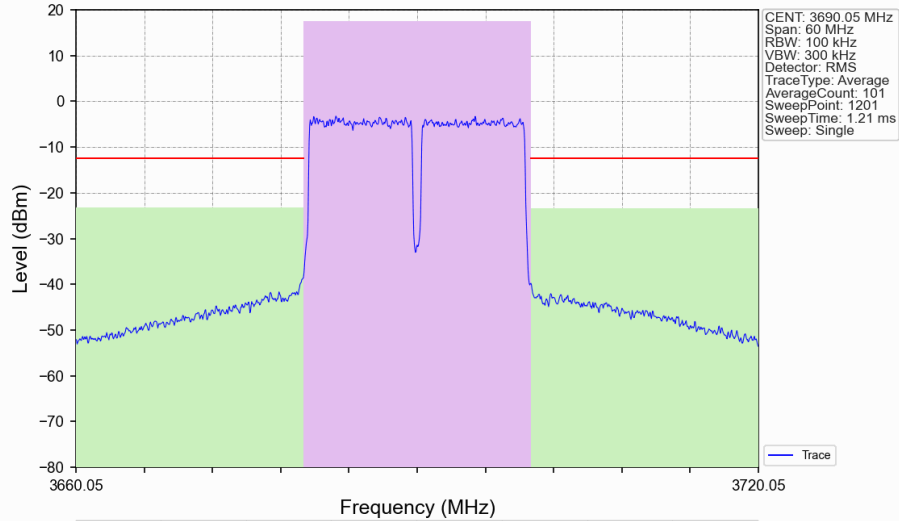
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	17.58	/	/	/	/
Adjacent	-20	20.00	-23.26	-40.84	-30	10.84	Pass
Adjacent	20	20.00	-23.33	-40.91	-30	10.91	Pass



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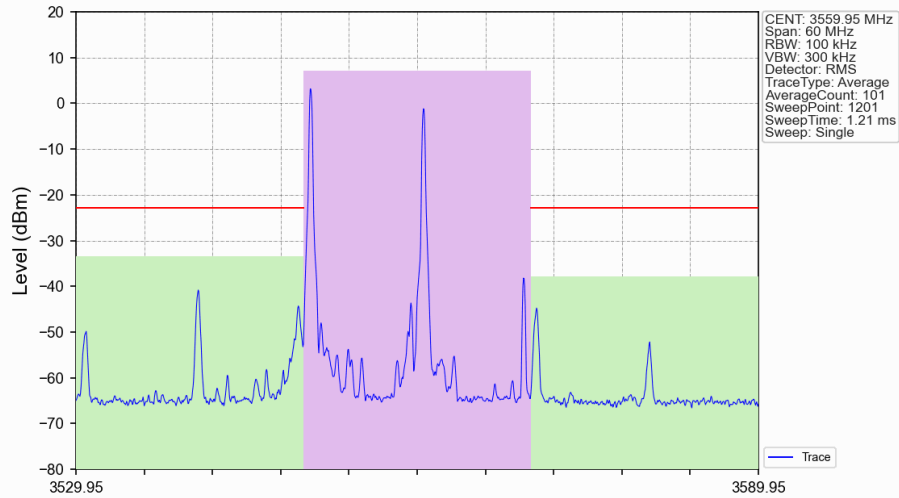
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Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.15	/	/	/	/
Adjacent	-20	20.00	-33.52	-40.67	-30	10.67	Pass
Adjacent	20	20.00	-37.85	-45.00	-30	15.00	Pass

CA_48B_SISO_NTNV_CC1:10_CC2:10MHz_CC1:64QAM_CC2:64QAM_CC1:3555_CC2:3564.9MHz_CC1: 1@0_CC2: 1@0



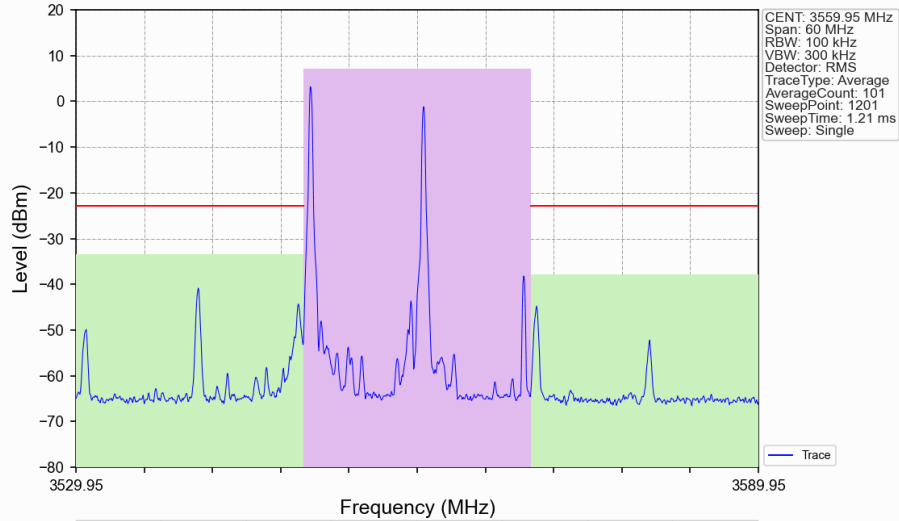
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.15	/	/	/	/
Adjacent	-20	20.00	-33.52	-40.67	-30	10.67	Pass
Adjacent	20	20.00	-37.85	-45.00	-30	15.00	Pass



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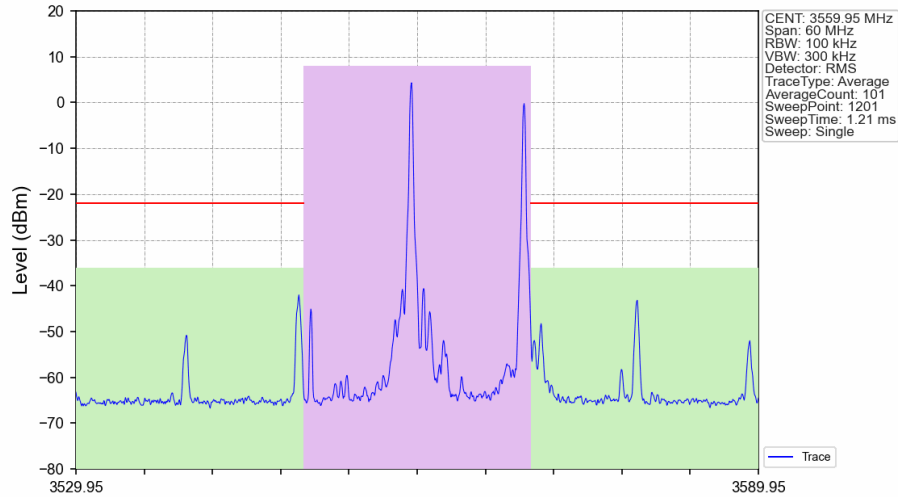
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CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:64QAM CC2:64QAM_CC1:3555 CC2:3564.9MHz_CC1: 1@49 CC2: 1@49



CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:64QAM CC2:64QAM_CC1:3555 CC2:3564.9MHz_CC1: 1@49 CC2: 1@49



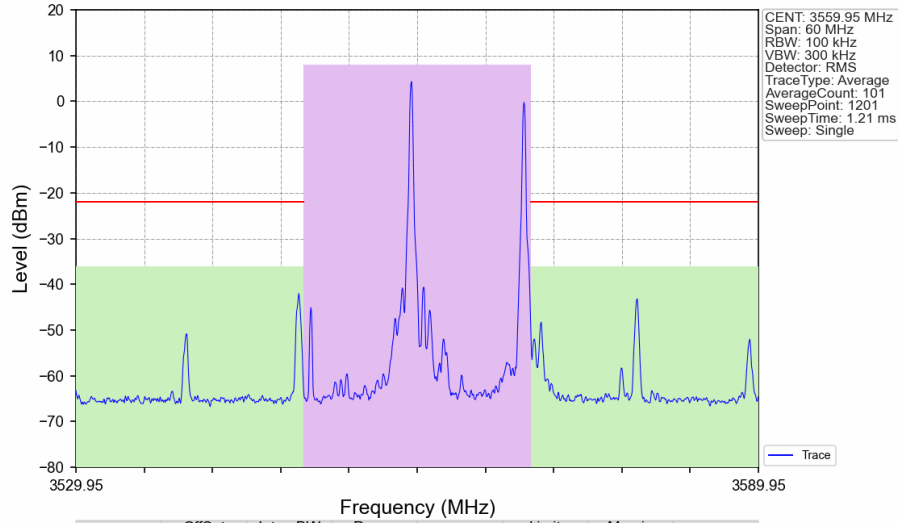
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.98	/	/	/	/
Adjacent	-20	20.00	-36.16	-44.14	-30	14.14	Pass
Adjacent	20	20.00	-36.02	-44.00	-30	14.00	Pass



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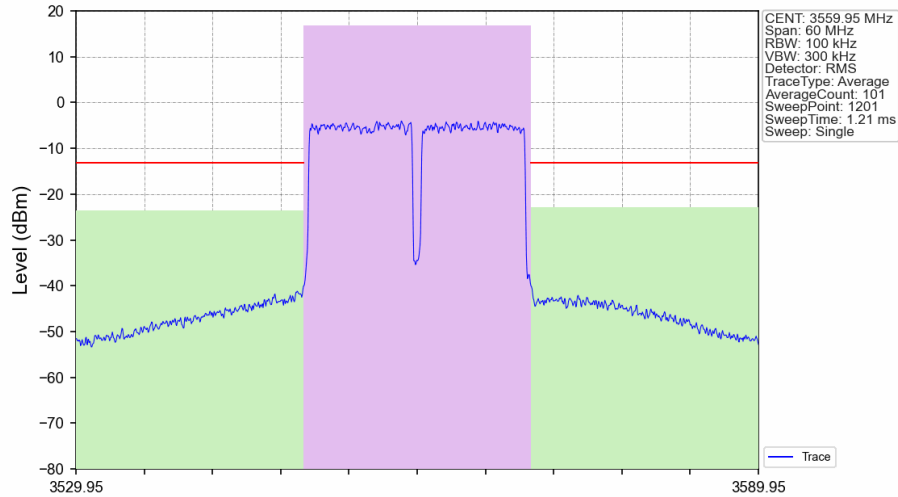
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CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:64QAM CC2:64QAM_CC1:3555 CC2:3564.9MHz_CC1: 50@0 CC2: 50@0



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	16.90	/	/	/	/
Adjacent	-20	20.00	-23.56	-40.46	-30	10.46	Pass
Adjacent	20	20.00	-22.91	-39.81	-30	9.81	Pass

CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:64QAM CC2:64QAM_CC1:3555 CC2:3564.9MHz_CC1: 50@0 CC2: 50@0



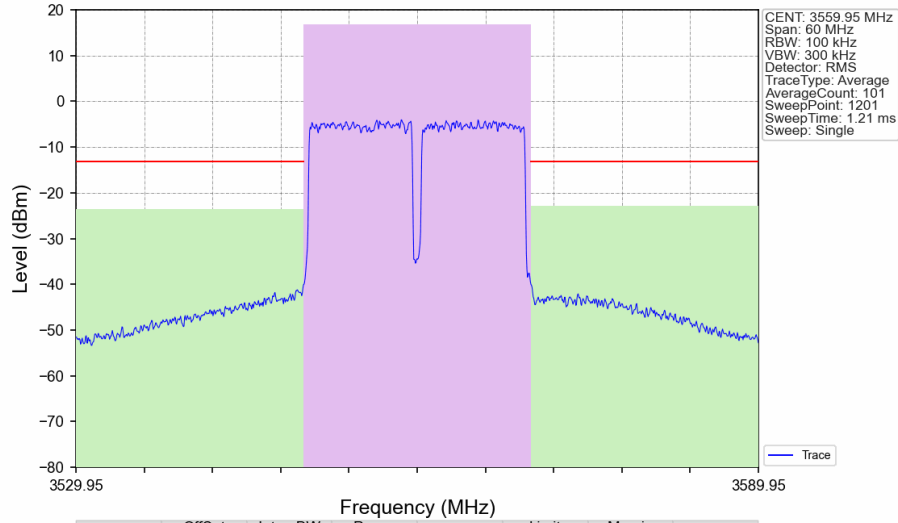
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	16.90	/	/	/	/
Adjacent	-20	20.00	-23.56	-40.46	-30	10.46	Pass
Adjacent	20	20.00	-22.91	-39.81	-30	9.81	Pass



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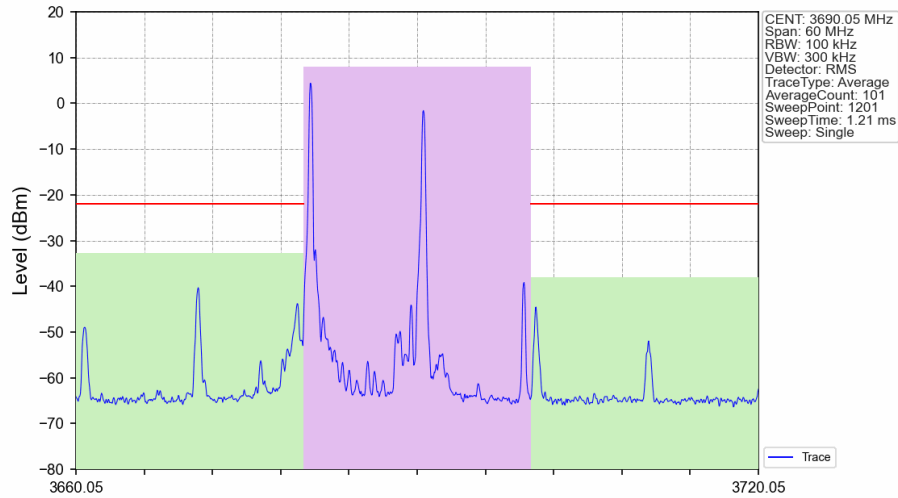
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CA_48B_SISO_NTNV_CC1:10_CC2:10MHz_CC1:64QAM_CC2:64QAM_CC1:3685.1_CC2:3695MHz_CC1: 1@0_CC2: 1@0



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	8.06	/	/	/	/
Adjacent	-20	20.00	-32.77	-40.83	-30	10.83	Pass
Adjacent	20	20.00	-37.95	-46.01	-30	16.01	Pass

CA_48B_SISO_NTNV_CC1:10_CC2:10MHz_CC1:64QAM_CC2:64QAM_CC1:3685.1_CC2:3695MHz_CC1: 1@0_CC2: 1@0



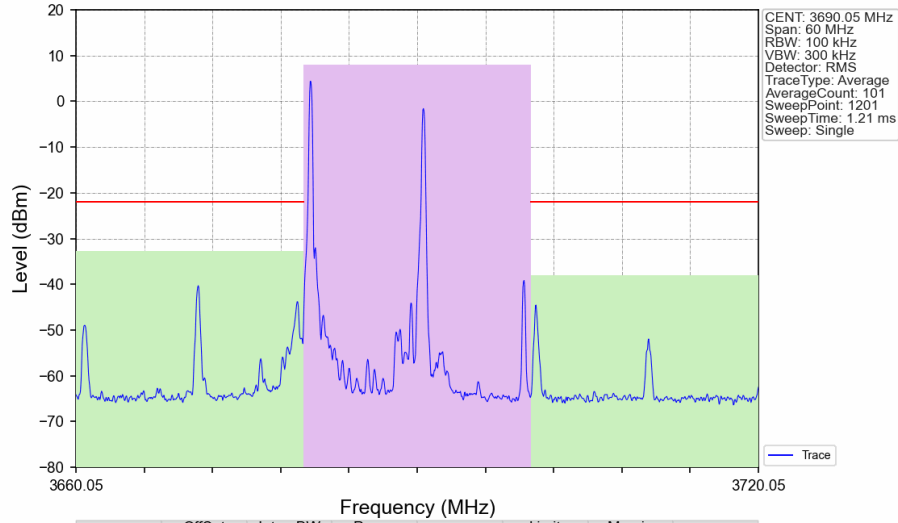
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	8.06	/	/	/	/
Adjacent	-20	20.00	-32.77	-40.83	-30	10.83	Pass
Adjacent	20	20.00	-37.95	-46.01	-30	16.01	Pass



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CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:64QAM CC2:64QAM_CC1:3685.1 CC2:3695MHz_CC1: 1@49 CC2: 1@49



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.85	/	/	/	/
Adjacent	-20	20.00	-35.19	-43.04	-30	13.04	Pass
Adjacent	20	20.00	-36.40	-44.25	-30	14.25	Pass

CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:64QAM CC2:64QAM_CC1:3685.1 CC2:3695MHz_CC1: 1@49 CC2: 1@49



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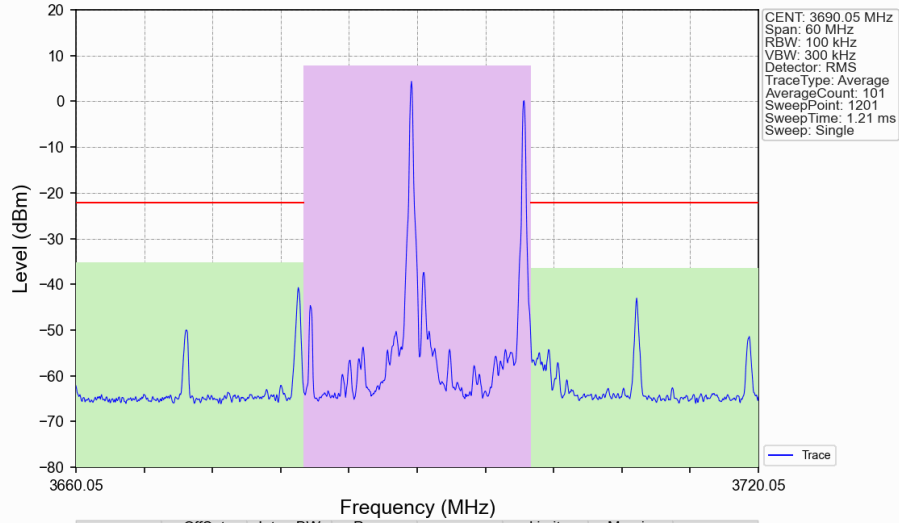
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.85	/	/	/	/
Adjacent	-20	20.00	-35.19	-43.04	-30	13.04	Pass
Adjacent	20	20.00	-36.40	-44.25	-30	14.25	Pass



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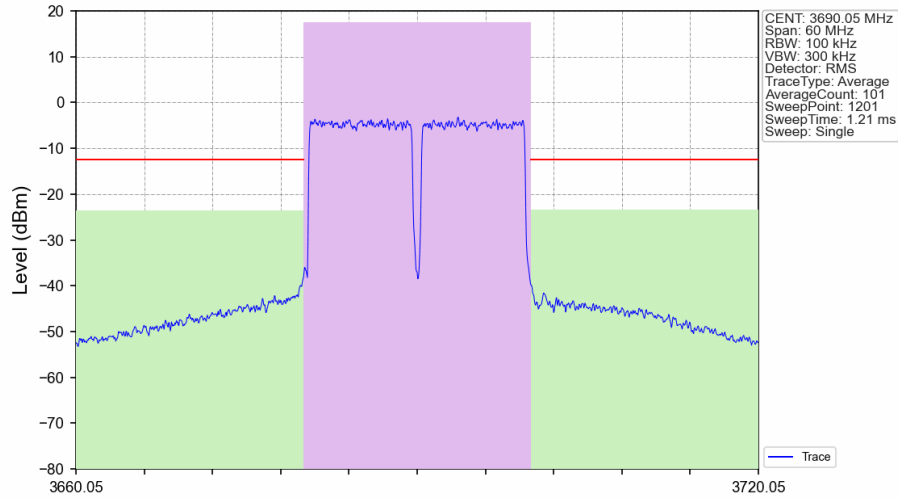
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CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:64QAM CC2:64QAM_CC1:3685.1 CC2:3695MHz_CC1: 50@0 CC2: 50@0



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	17.51	/	/	/	/
Adjacent	-20	20.00	-23.58	-41.09	-30	11.09	Pass
Adjacent	20	20.00	-23.42	-40.93	-30	10.93	Pass

CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:64QAM CC2:64QAM_CC1:3685.1 CC2:3695MHz_CC1: 50@0 CC2: 50@0



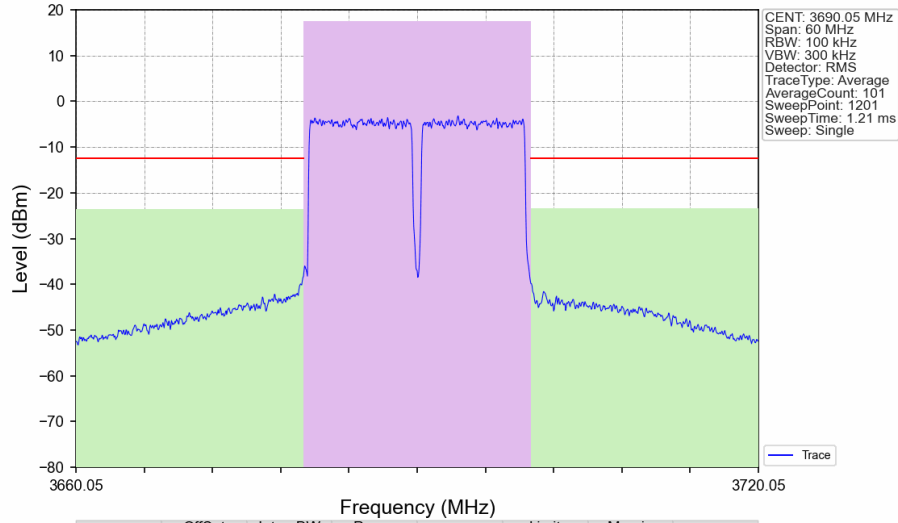
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	17.51	/	/	/	/
Adjacent	-20	20.00	-23.58	-41.09	-30	11.09	Pass
Adjacent	20	20.00	-23.42	-40.93	-30	10.93	Pass



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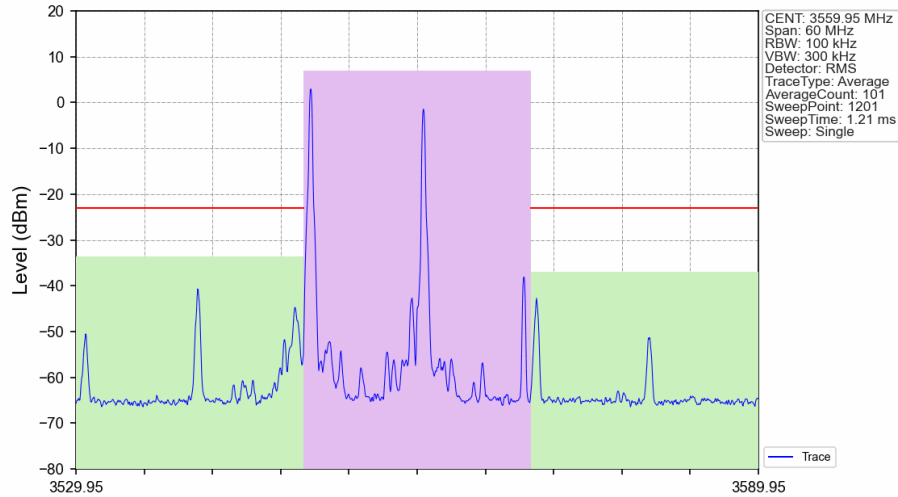
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CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:256QAM CC2:256QAM_CC1:3555 CC2:3564.9MHz_CC1: 1@0 CC2: 1@0



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	6.98	/	/	/	/
Adjacent	-20	20.00	-33.59	-40.57	-30	10.57	Pass
Adjacent	20	20.00	-36.98	-43.96	-30	13.96	Pass

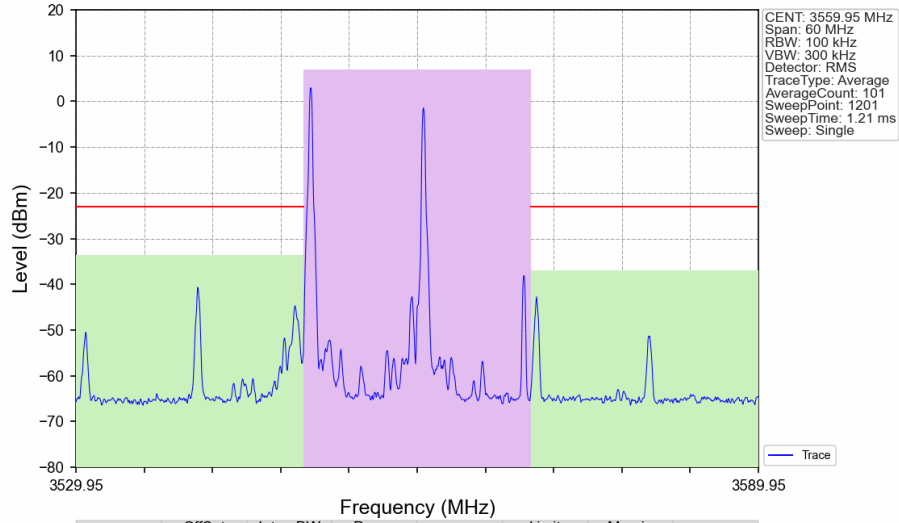
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	6.98	/	/	/	/
Adjacent	-20	20.00	-33.59	-40.57	-30	10.57	Pass
Adjacent	20	20.00	-36.98	-43.96	-30	13.96	Pass



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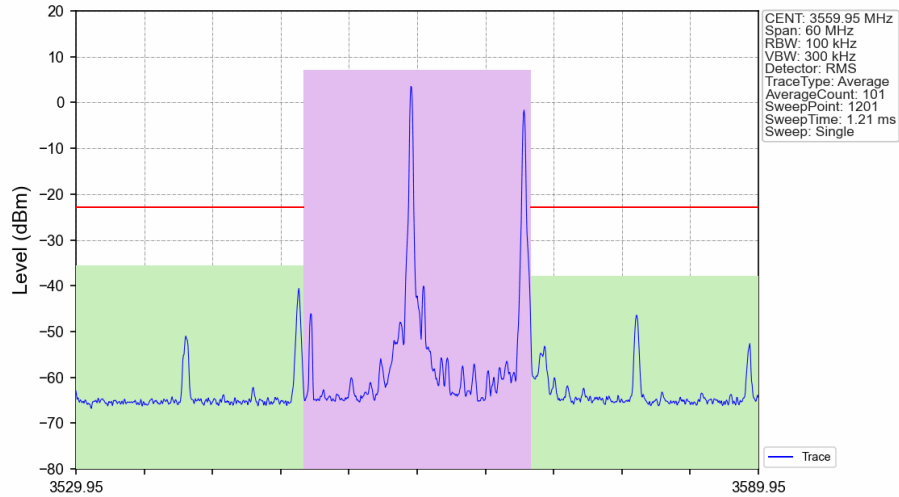
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CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:256QAM CC2:256QAM_CC1:3555 CC2:3564.9MHz_CC1: 1@49 CC2: 1@49



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.06	/	/	/	/
Adjacent	-20	20.00	-35.53	-42.59	-30	12.59	Pass
Adjacent	20	20.00	-37.80	-44.86	-30	14.86	Pass

CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:256QAM CC2:256QAM_CC1:3555 CC2:3564.9MHz_CC1: 1@49 CC2: 1@49



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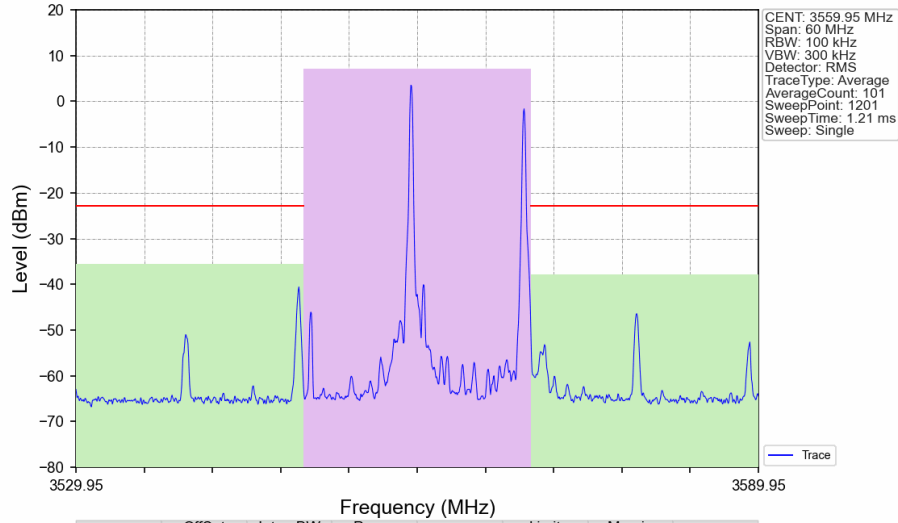
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.06	/	/	/	/
Adjacent	-20	20.00	-35.53	-42.59	-30	12.59	Pass
Adjacent	20	20.00	-37.80	-44.86	-30	14.86	Pass



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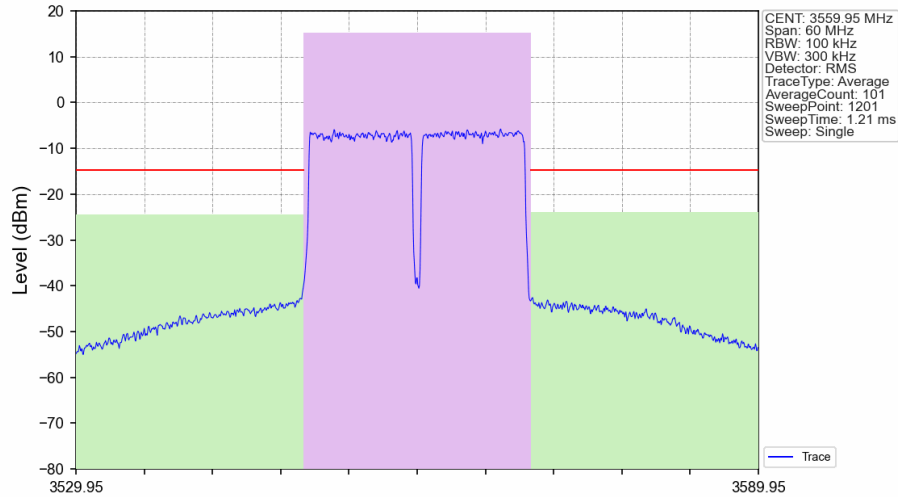
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CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:256QAM CC2:256QAM_CC1:3555 CC2:3564.9MHz_CC1: 50@0 CC2: 50@0



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	15.18	/	/	/	/
Adjacent	-20	20.00	-24.41	-39.59	-30	9.59	Pass
Adjacent	20	20.00	-23.95	-39.13	-30	9.13	Pass

CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:256QAM CC2:256QAM_CC1:3555 CC2:3564.9MHz_CC1: 50@0 CC2: 50@0



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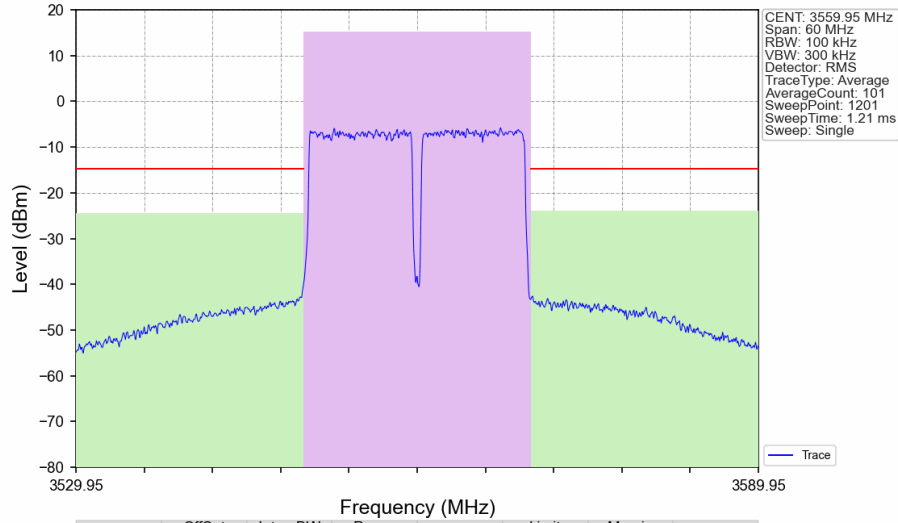
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	15.18	/	/	/	/
Adjacent	-20	20.00	-24.41	-39.59	-30	9.59	Pass
Adjacent	20	20.00	-23.95	-39.13	-30	9.13	Pass



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CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:256QAM CC2:256QAM_CC1:3685.1 CC2:3695MHz_CC1: 1@0 CC2: 1@0



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.49	/	/	/	/
Adjacent	-20	20.00	-34.59	-42.08	-30	12.08	Pass
Adjacent	20	20.00	-38.29	-45.78	-30	15.78	Pass

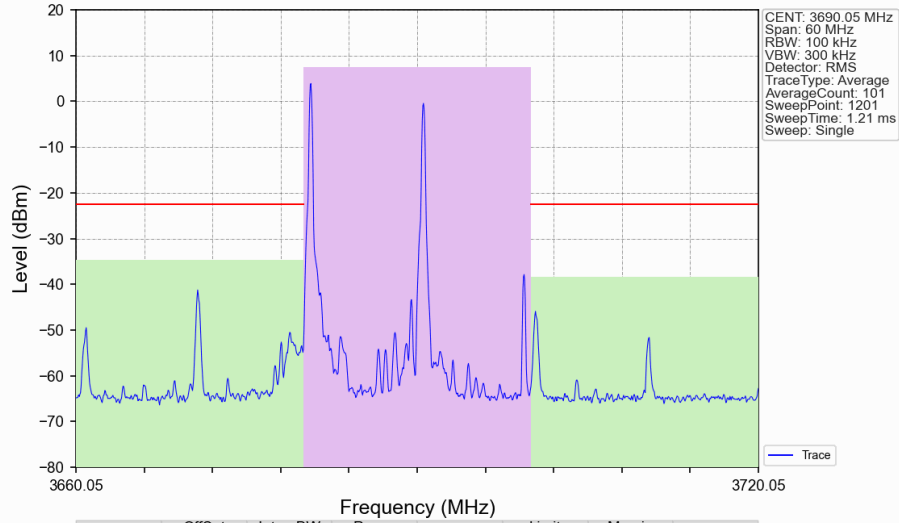
CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:256QAM CC2:256QAM_CC1:3685.1 CC2:3695MHz_CC1: 1@0 CC2: 1@0



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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.49	/	/	/	/
Adjacent	-20	20.00	-34.59	-42.08	-30	12.08	Pass
Adjacent	20	20.00	-38.29	-45.78	-30	15.78	Pass



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CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:256QAM CC2:256QAM_CC1:3685.1 CC2:3695MHz_CC1: 1@49 CC2: 1@49



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	7.78	/	/	/	/
Adjacent	-20	20.00	-35.42	-43.20	-30	13.20	Pass
Adjacent	20	20.00	-37.49	-45.27	-30	15.27	Pass

CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:256QAM CC2:256QAM_CC1:3685.1 CC2:3695MHz_CC1: 1@49 CC2: 1@49



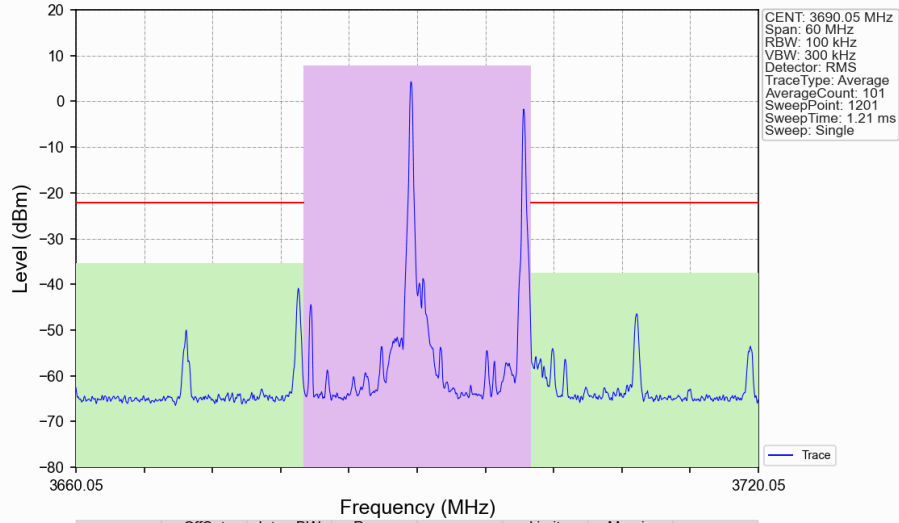
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Carrier	/	20.00	7.78	/	/	/	/
Adjacent	-20	20.00	-35.42	-43.20	-30	13.20	Pass
Adjacent	20	20.00	-37.49	-45.27	-30	15.27	Pass



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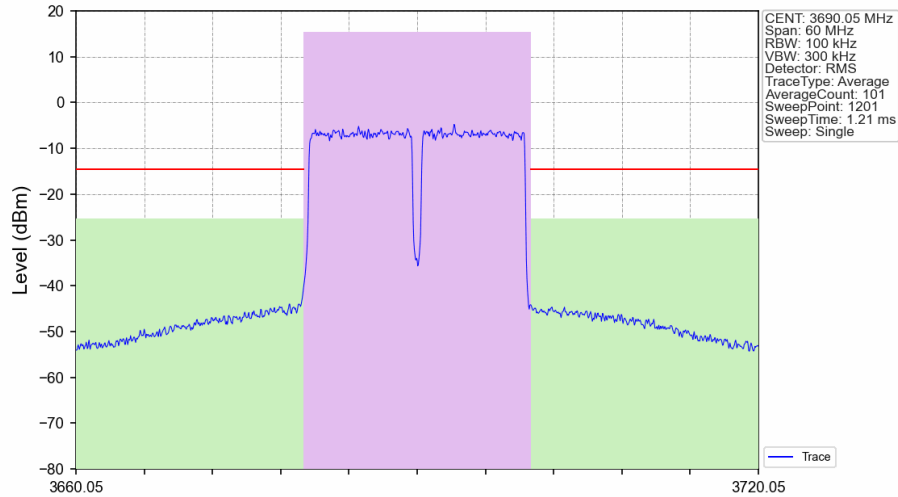
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CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:256QAM CC2:256QAM_CC1:3685.1 CC2:3695MHz_CC1: 50@0 CC2: 50@0



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	15.44	/	/	/	/
Adjacent	-20	20.00	-25.36	-40.80	-30	10.80	Pass
Adjacent	20	20.00	-25.31	-40.75	-30	10.75	Pass

CA_48B_SISO_NTNV_CC1:10 CC2:10MHz_CC1:256QAM CC2:256QAM_CC1:3685.1 CC2:3695MHz_CC1: 50@0 CC2: 50@0



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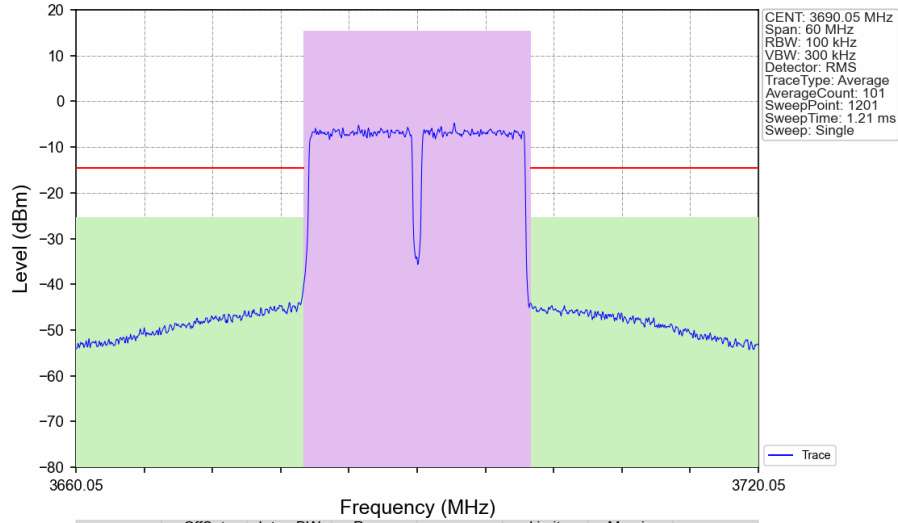
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Carrier	/	20.00	15.44	/	/	/	/
Adjacent	-20	20.00	-25.36	-40.80	-30	10.80	Pass
Adjacent	20	20.00	-25.31	-40.75	-30	10.75	Pass



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5. Field Strength of Spurious Radiation

Test Band = LTE Band48B_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7789.725	42.19	-42.62	36.81	-58.88	-40.00	18.88	Horizontal
2	9334.75	39.69	-40.02	37.17	-58.42	-40.00	18.42	Horizontal
3	10650.925	36.92	-37.75	38.57	-57.52	-40.00	17.52	Horizontal
4	11446.725	36.37	-37.04	38.82	-57.11	-40.00	17.11	Horizontal
5	12833.625	37.53	-36.70	39.35	-55.08	-40.00	15.08	Horizontal
6	14996.775	36.52	-34.44	41.60	-51.59	-40.00	11.59	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8046.175	41.28	-41.77	37.07	-58.67	-40.00	18.67	Vertical
2	9438.25	39.92	-39.94	37.38	-57.90	-40.00	17.90	Vertical
3	11256.4	36.80	-36.96	38.73	-56.69	-40.00	16.69	Vertical
4	12283.35	36.77	-36.72	39.19	-56.02	-40.00	16.02	Vertical
5	13686.925	36.76	-36.00	40.36	-54.13	-40.00	14.13	Vertical
6	15717.25	35.36	-33.23	40.09	-53.03	-40.00	13.03	Vertical



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Test Band = LTE Band48B_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7173.325	42.78	-43.62	35.49	-60.62	-40.00	20.62	Horizontal
2	8413.025	41.06	-41.43	36.85	-58.77	-40.00	18.77	Horizontal
3	9436.525	40.21	-39.93	37.37	-57.61	-40.00	17.61	Horizontal
4	10686.575	37.07	-37.56	38.57	-57.18	-40.00	17.18	Horizontal
5	12661.7	36.90	-36.97	39.30	-56.03	-40.00	16.03	Horizontal
6	14329.2	37.18	-35.63	41.06	-52.65	-40.00	12.65	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7695.425	42.42	-42.94	36.67	-59.11	-40.00	19.11	Vertical
2	9168.575	39.20	-40.09	36.84	-59.32	-40.00	19.32	Vertical
3	10146.075	37.47	-38.97	38.51	-58.24	-40.00	18.24	Vertical
4	11409.35	37.02	-37.42	38.80	-56.85	-40.00	16.85	Vertical
5	12620.875	37.17	-37.12	39.29	-55.93	-40.00	15.93	Vertical
6	13964.075	35.54	-35.06	40.75	-54.03	-40.00	14.03	Vertical



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Test Band = LTE Band48B_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7511.425	41.71	-43.12	36.42	-60.25	-40.00	20.25	Horizontal
2	8798.85	41.23	-41.14	36.62	-58.55	-40.00	18.55	Horizontal
3	10162.75	37.92	-39.06	38.52	-57.89	-40.00	17.89	Horizontal
4	11248.925	36.82	-36.91	38.72	-56.62	-40.00	16.62	Horizontal
5	12798.55	36.77	-36.62	39.34	-55.77	-40.00	15.77	Horizontal
6	15148	35.84	-34.13	41.29	-52.27	-40.00	12.27	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7329.15	42.43	-43.17	35.92	-60.08	-40.00	20.08	Vertical
2	8689.6	41.53	-41.29	36.69	-58.34	-40.00	18.34	Vertical
3	10108.125	37.70	-38.75	38.51	-57.80	-40.00	17.80	Vertical
4	11215.575	37.13	-36.70	38.71	-56.12	-40.00	16.12	Vertical
5	13186.1	36.49	-36.58	39.66	-55.69	-40.00	15.69	Vertical
6	15018.05	36.59	-34.43	41.56	-51.54	-40.00	11.54	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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