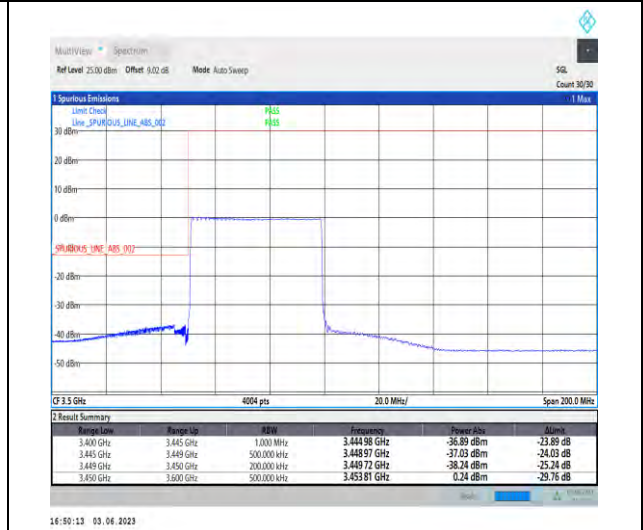
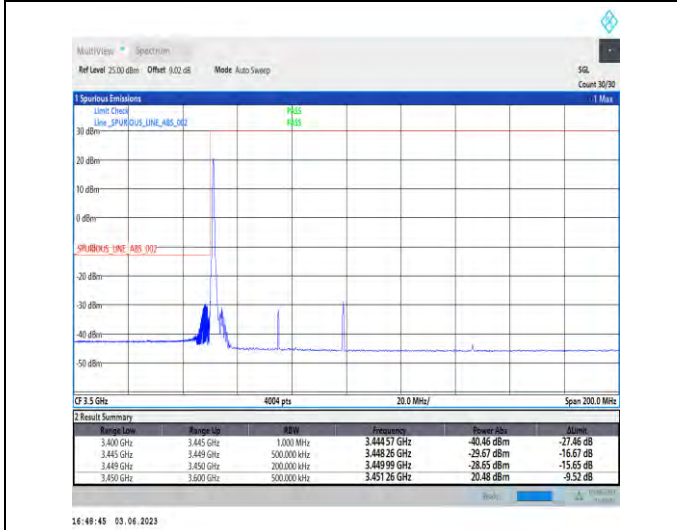


1-N78-3450-3550-PC3-30-50-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC3-30-50-L-3-DFT-PI2BPSK-Outer_Full-128@0-Ant1-1--PASS-see graph



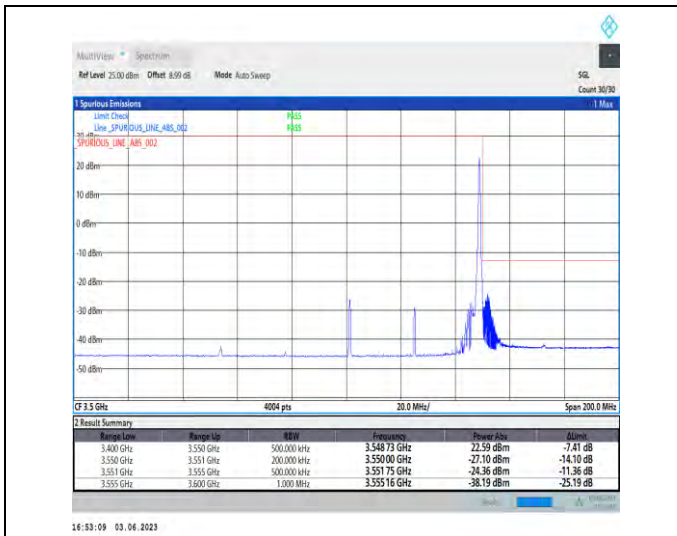
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1-N78-3450-3550-PC3-30-50-L-6-CP-QPSK-Outer_Full-133@0-Ant1-1--PASS-see graph



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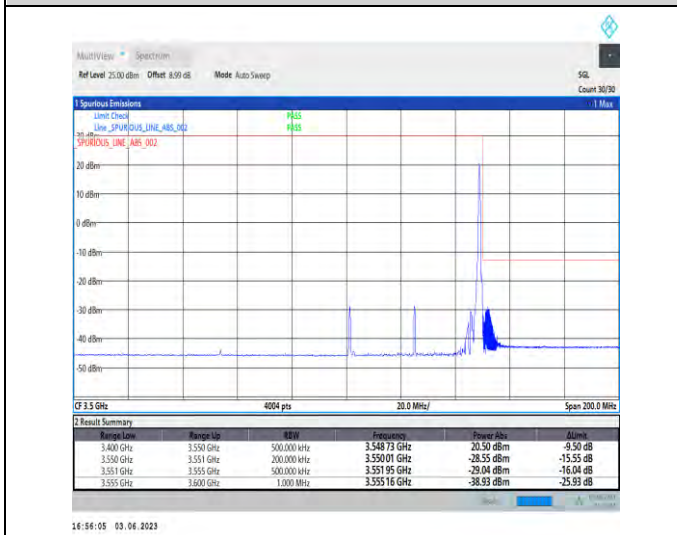
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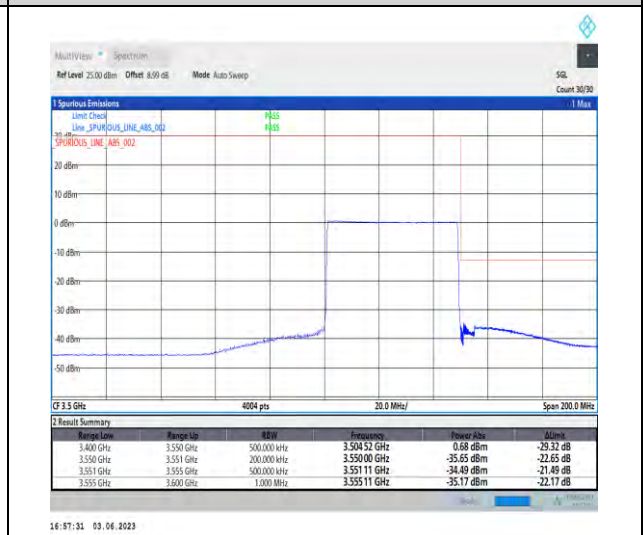
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1-N78-3450-3550-PC3-30-50-H-3-DFT-PI2BPSK-Outer_Full-128@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC3-30-50-H-5-CP-QPSK-Edge_1RB_Right-1@132-Ant1-1--PASS-see graph



1-N78-3450-3550-PC3-30-50-H-6-CP-QPSK-Outer_Full-133@0-Ant1-1--PASS-see graph

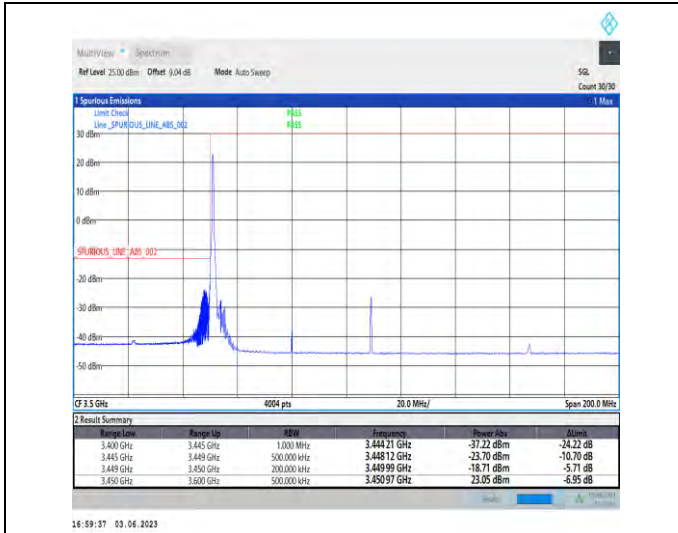


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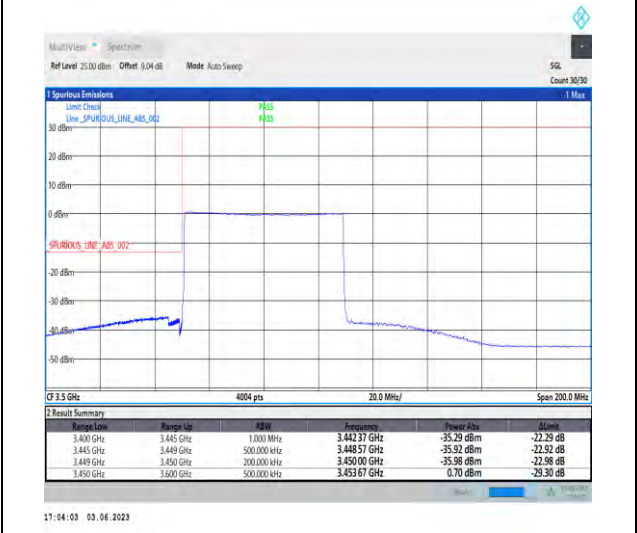
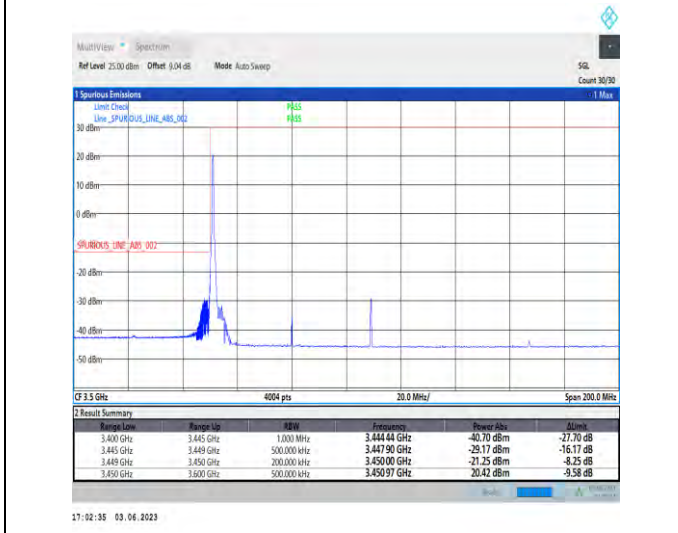
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1-N78-3450-3550-PC3-30-60-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC3-30-60-L-3-DFT-PI2BPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC3-30-60-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

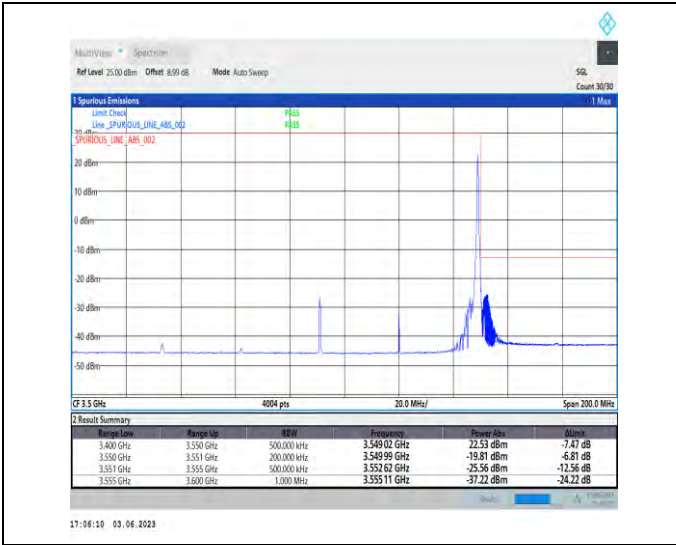
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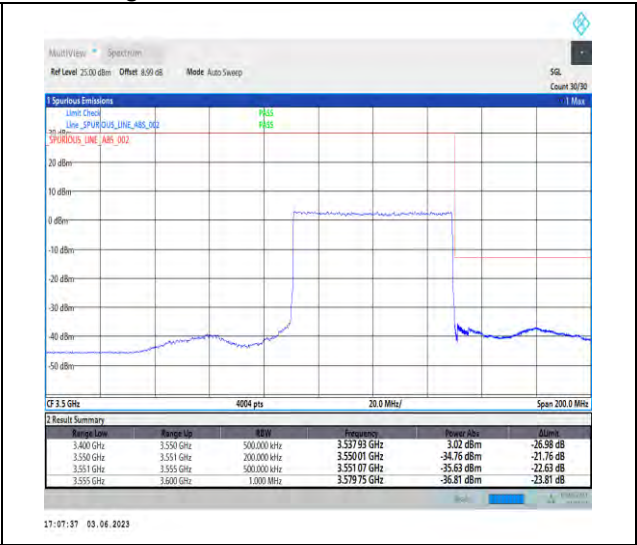
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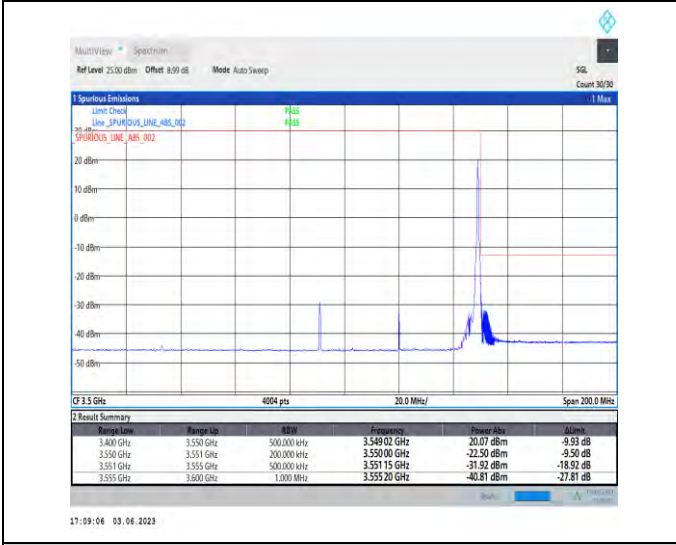
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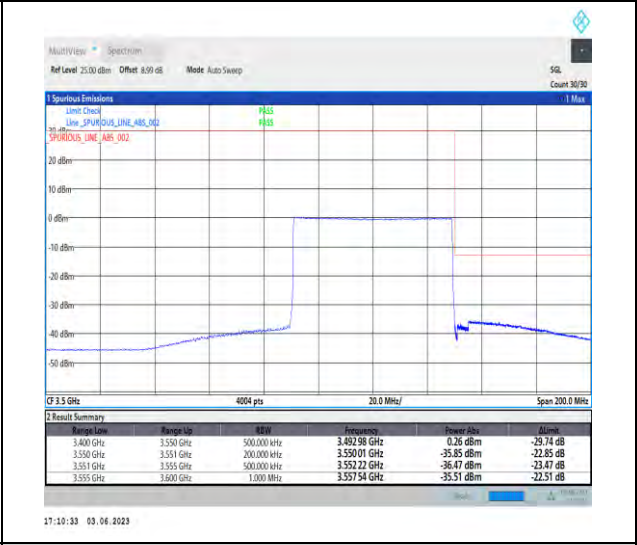
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1-N78-3450-3550-PC3-30-60-H-3-DFT-PI2BPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC3-30-60-H-5-CP-QPSK-Edge_1RB_Right-1@161-Ant1-1--PASS-see graph



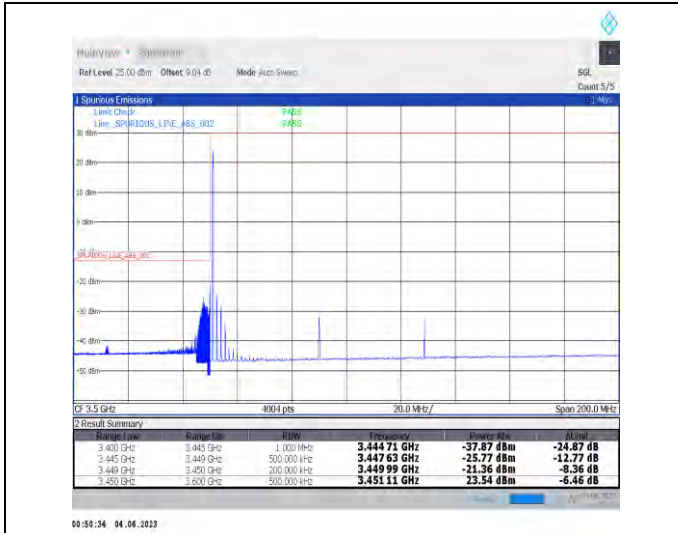
1-N78-3450-3550-PC3-30-60-H-6-CP-QPSK-Outer_Full-162@0-Ant1-1--PASS-see graph



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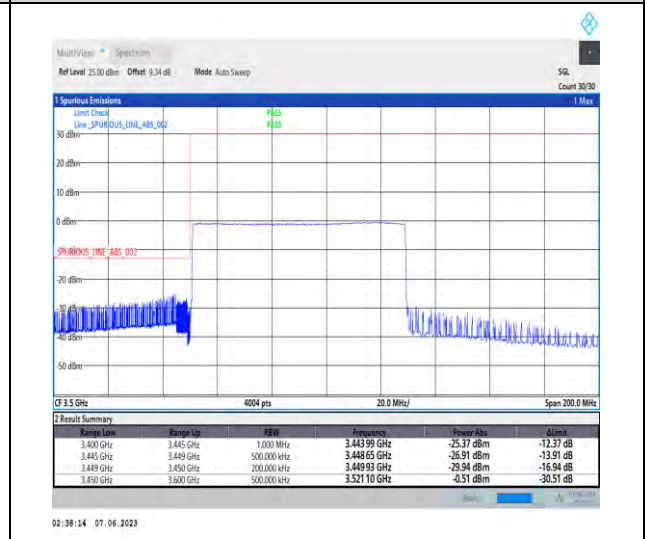
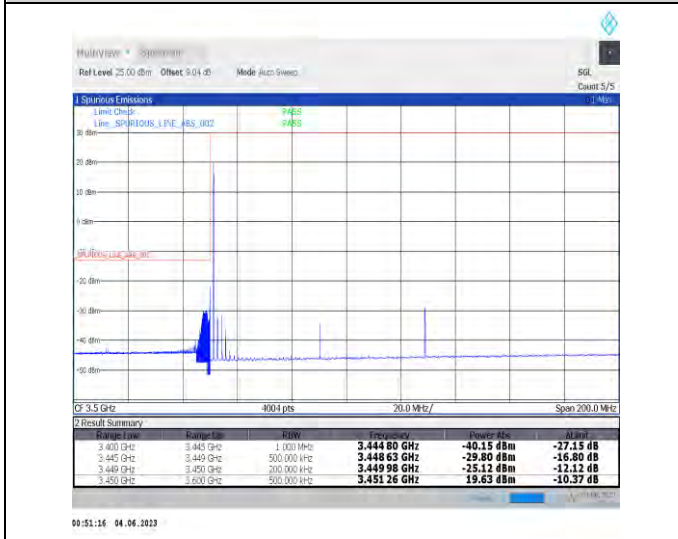
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1-N78-3450-3550-PC3-30-80-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC3-30-80-L-3-DFT-PI2BPSK-Outer_Full-216@0-Ant1-1--PASS-see graph



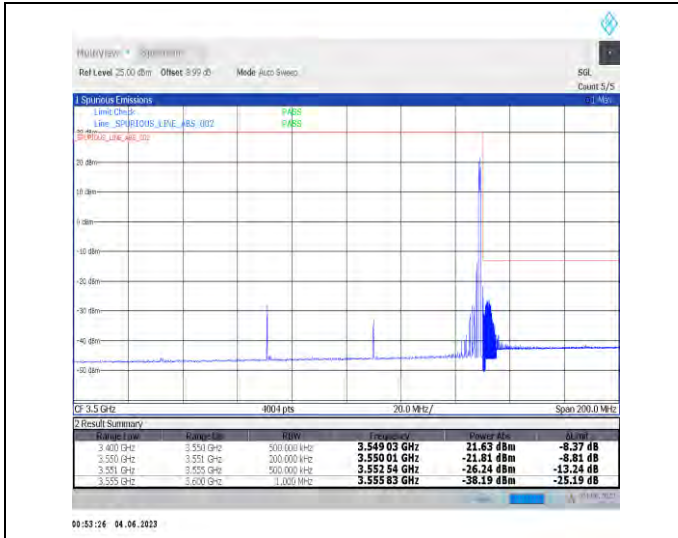
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1-N78-3450-3550-PC3-30-80-L-6-CP-QPSK-Outer_Full-217@0-Ant1-1--PASS-see graph



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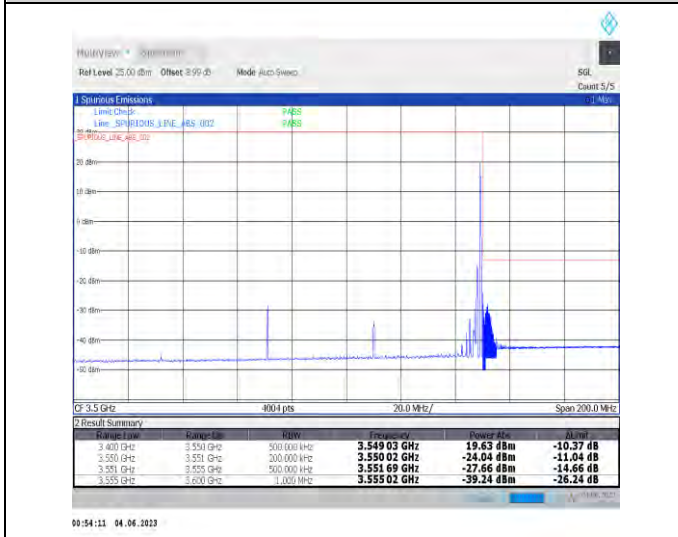
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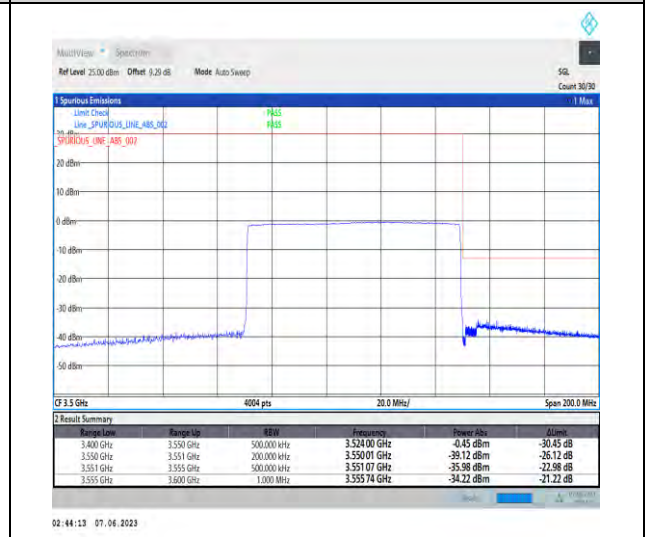
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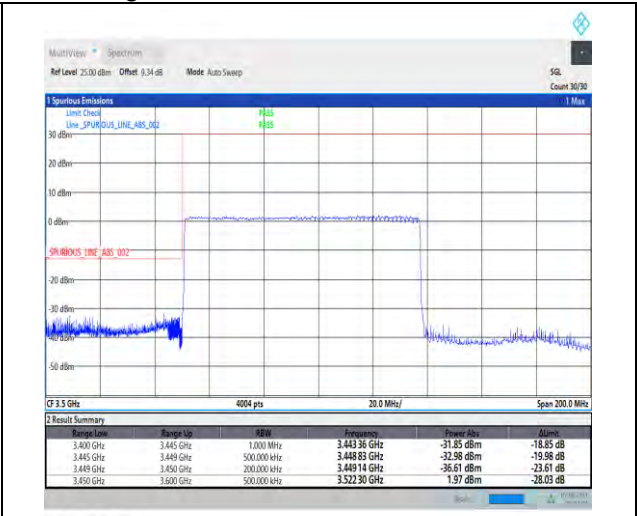
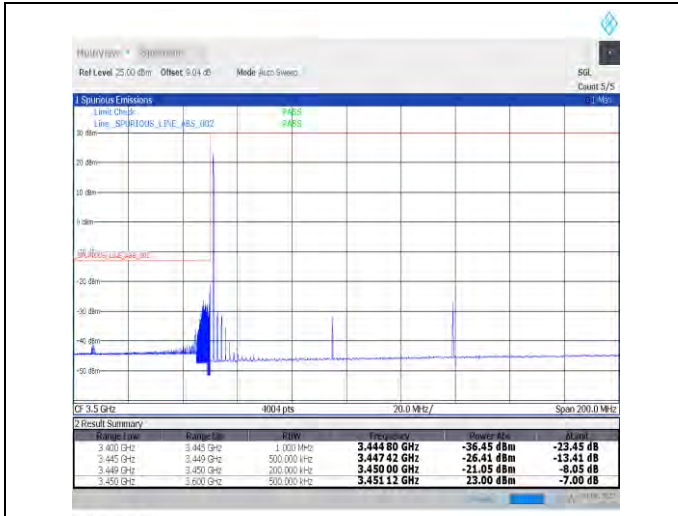


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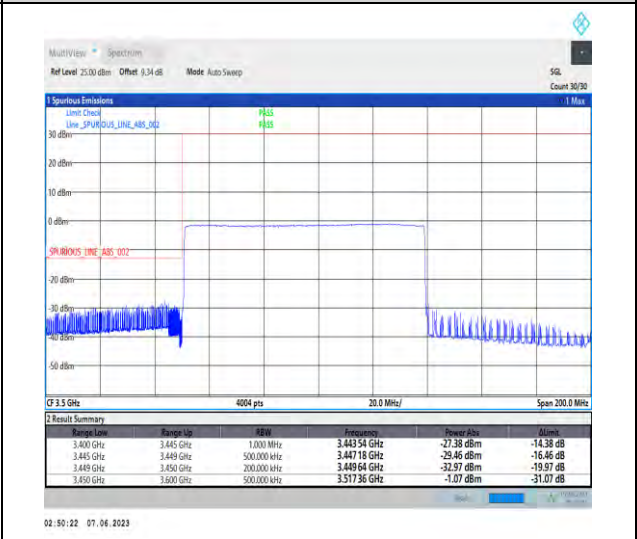
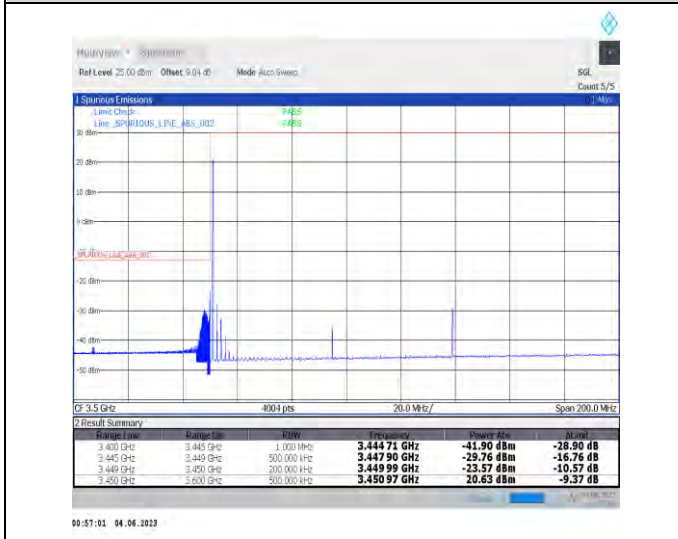
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1-N78-3450-3550-PC3-30-90-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

1-N78-3450-3550-PC3-30-90-L-3-DFT-PI2BPSK-Outer_Full-240@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC3-30-90-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1--PASS-see graph

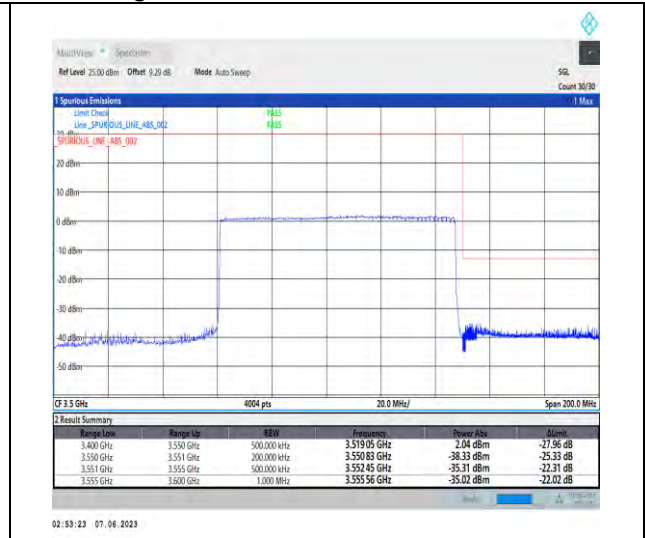
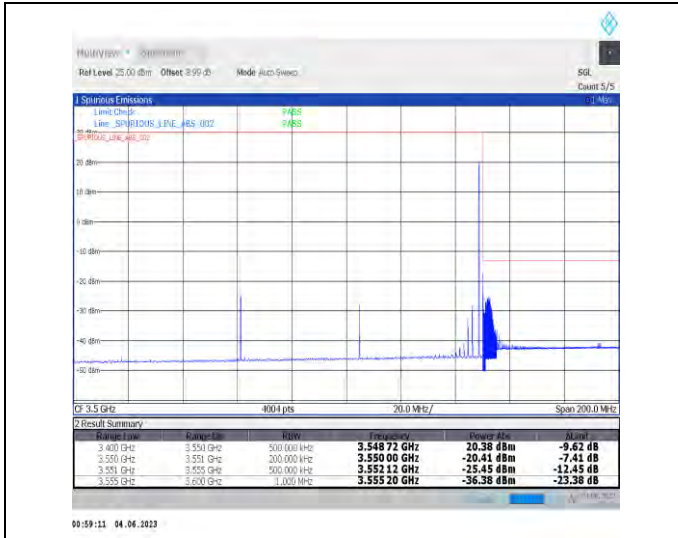
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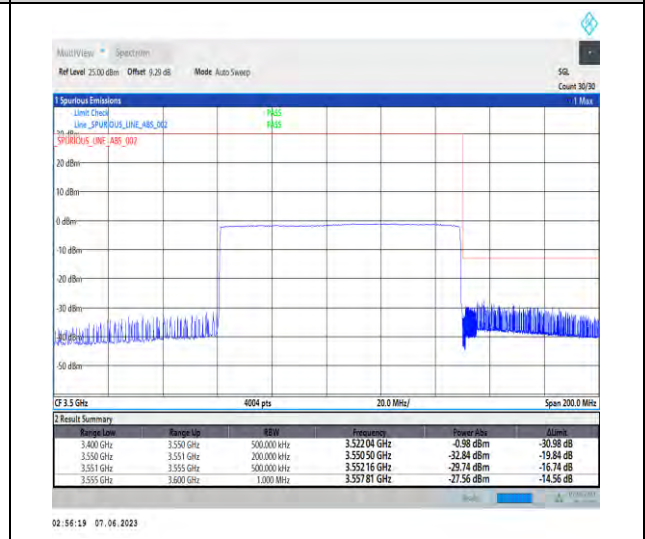
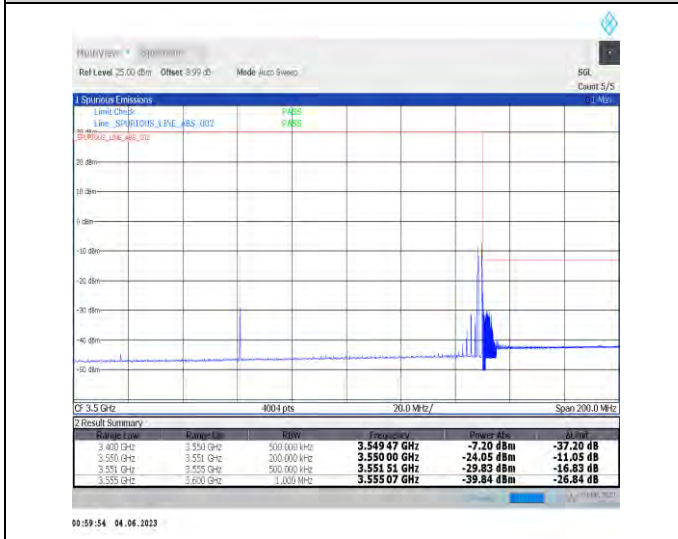
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1-N78-3450-3550-PC3-30-90-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@244-Ant1-1--PASS-see graph

1-N78-3450-3550-PC3-30-90-H-3-DFT-PI2BPSK-Outer_Full-240@0-Ant1-1--PASS-see graph



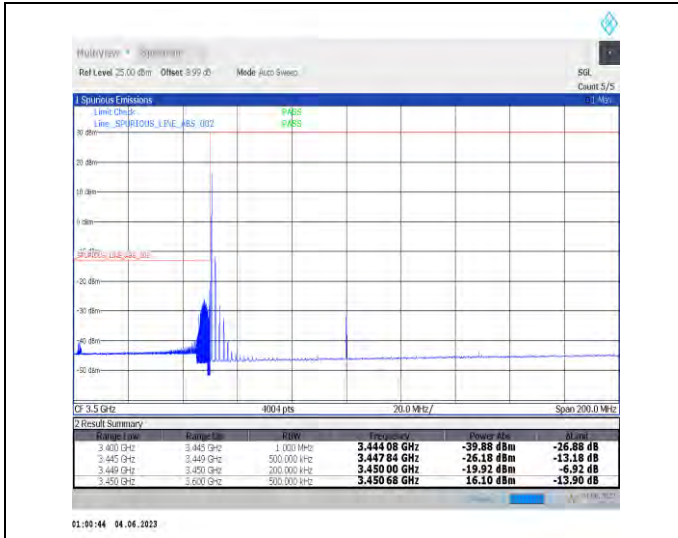
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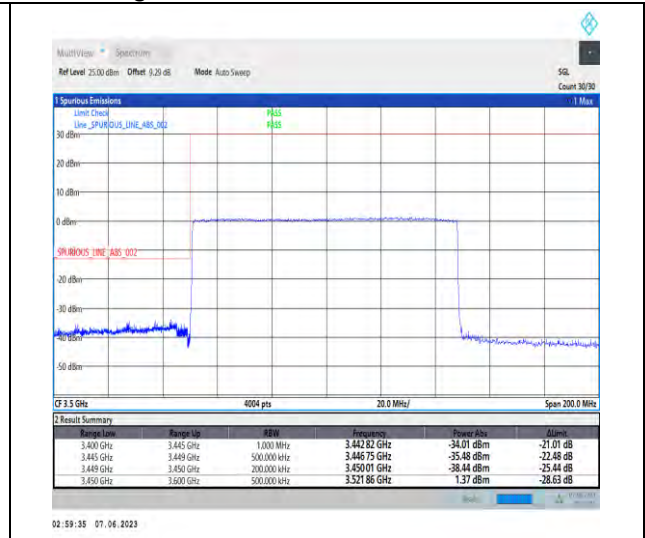


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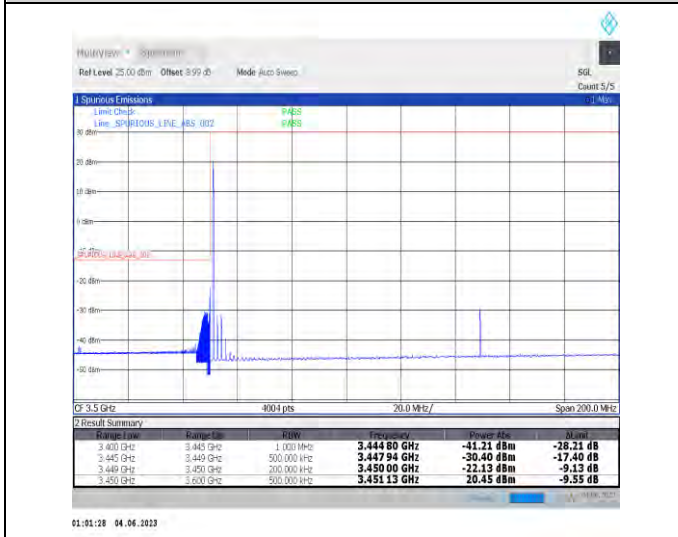
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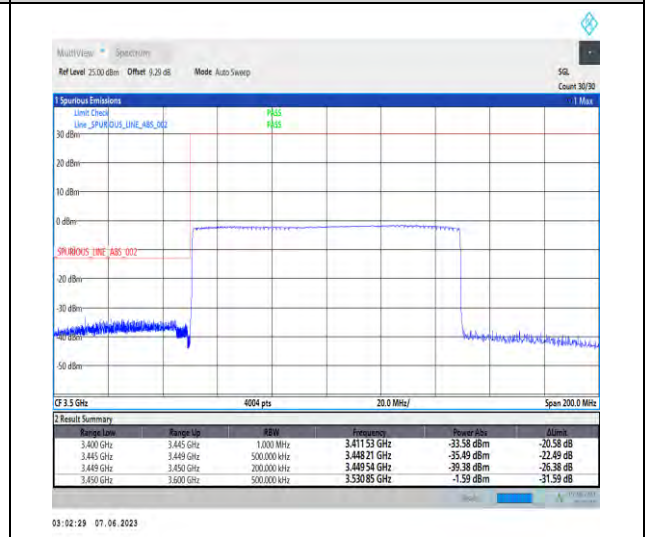
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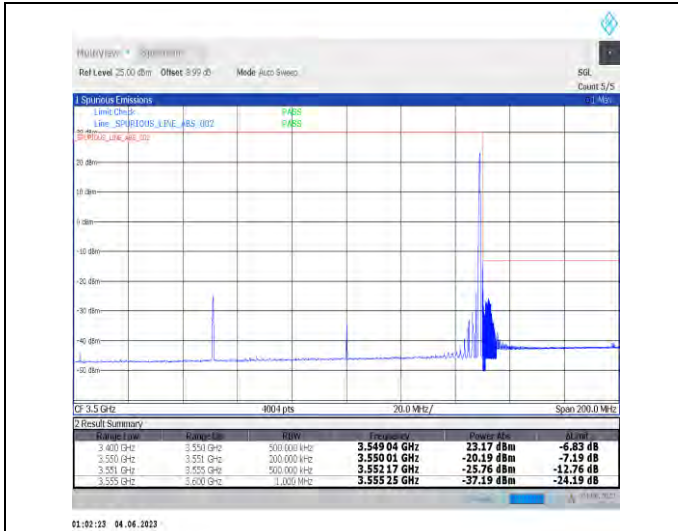


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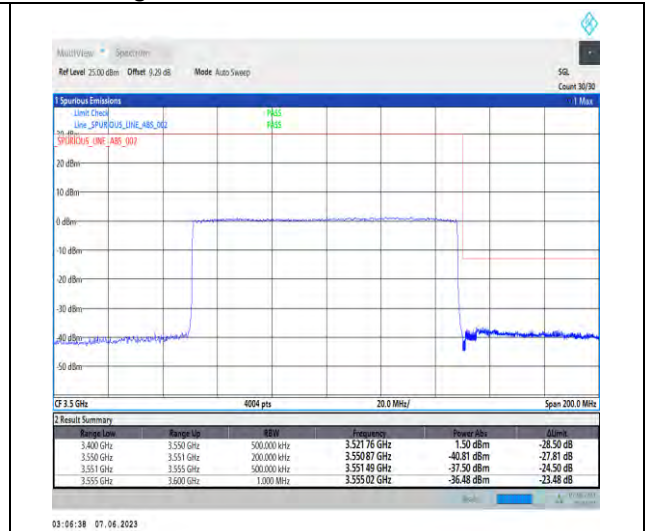


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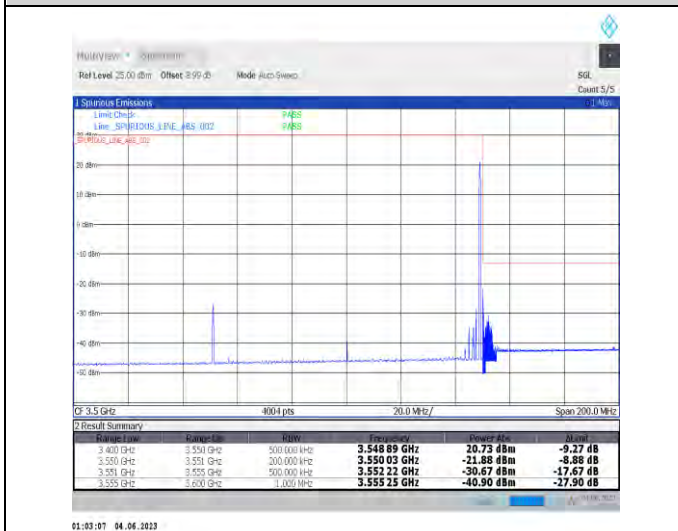
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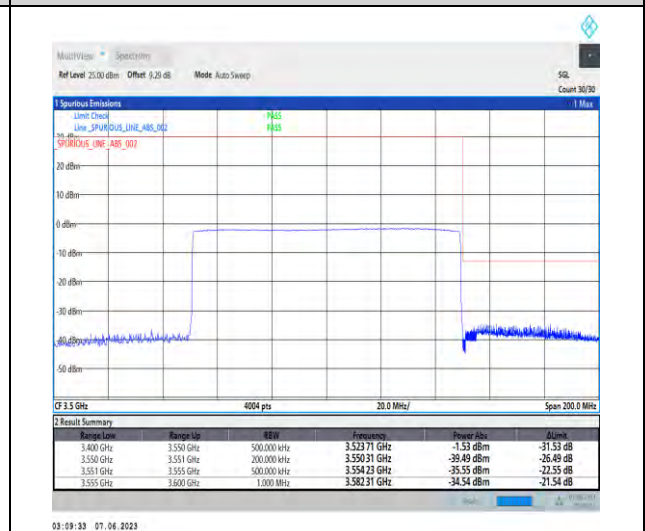
1-N78-3450-3550-PC3-30-100-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@272-Ant1-1--PASS-see graph



1-N78-3450-3550-PC3-30-100-H-3-DFT-PI2BPSK-Outer_Full-270@0-Ant1-1--PASS-see graph



1-N78-3450-3550-PC3-30-100-H-5-CP-QPSK-Edge_1RB_Right-1@272-Ant1-1--PASS-see graph



1-N78-3450-3550-PC3-30-100-H-6-CP-QPSK-Outer_Full-273@0-Ant1-1--PASS-see graph



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Conducted Spurious Emission for SA

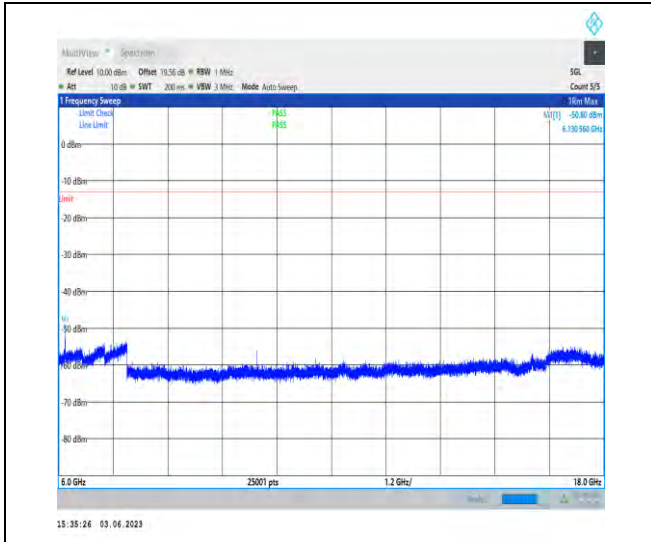
Test Graphs

<p>1-N78-3450-3550-PC3-30-100-L-1-N/A-DFT-PI2BP SK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.02--79. 83--43-PASS</p>	<p>1-N78-3450-3550-PC3-30-100-L-1-N/A-DFT-PI2BPS K-Inner_1RB_Left-1@1-0.15-30-Ant1-0.60--83.48--3 3-PASS</p>
<p>1-N78-3450-3550-PC3-30-100-L-1-N/A-DFT-PI2BP SK-Inner_1RB_Left-1@1-30-1000-Ant1-33.40--64.1 5--13-PASS</p>	<p>1-N78-3450-3550-PC3-30-100-L-1-N/A-DFT-PI2BPS K-Inner_1RB_Left-1@1-1000-6000-Ant1-5372.00--39 .04--13-PASS</p>

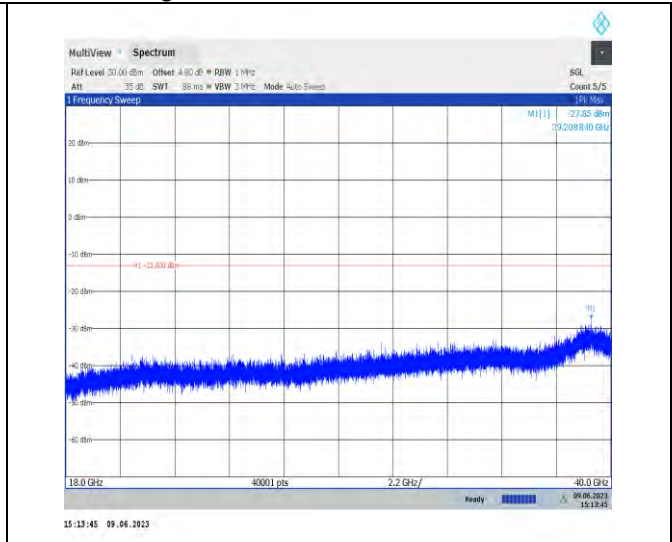


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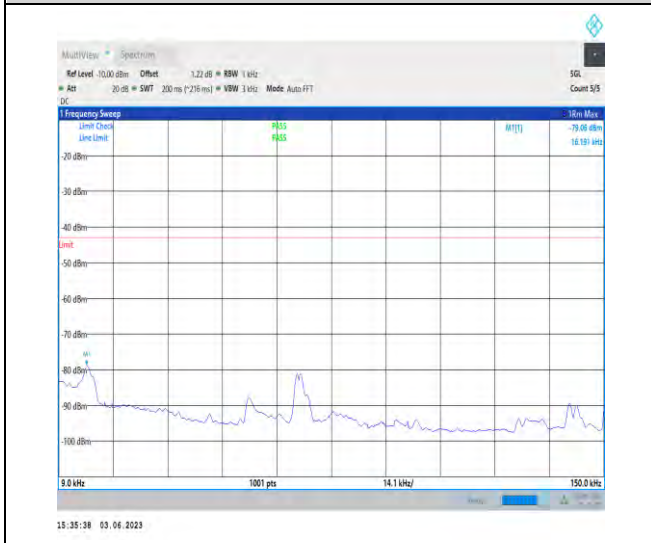
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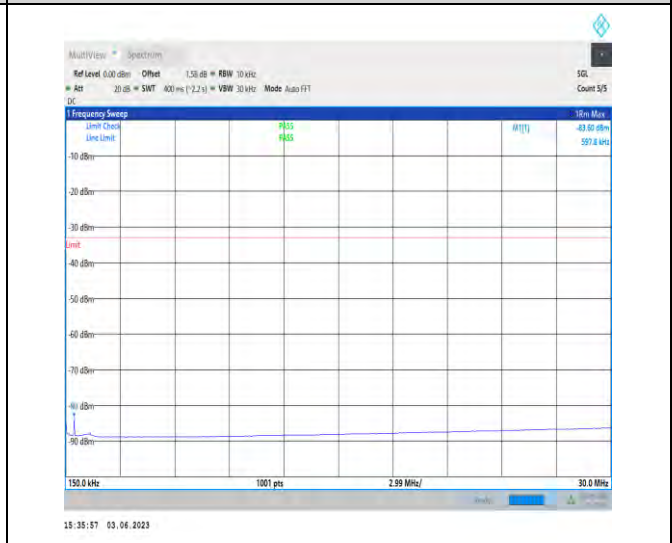
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SK-Inner_1RB_Left-1@1-6000-18000-Ant1-6130.56
--50.80--13-PASS



1-N78-3450-3550-PC3-30-100-L-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00
--62.60--13-PASS



1-N78-3450-3550-PC3-30-100-M-1-N/A-DFT-PI2BP
SK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.02--79.
06--43-PASS

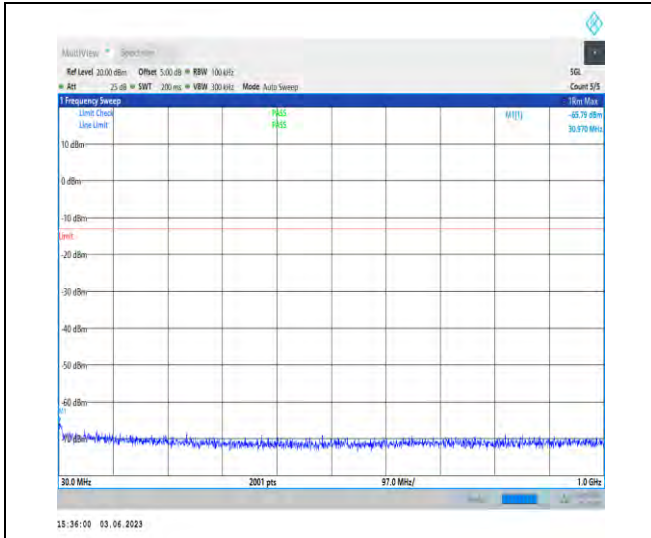


1-N78-3450-3550-PC3-30-100-M-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-0.15-30-Ant1-0.60--83.60--3
3-PASS

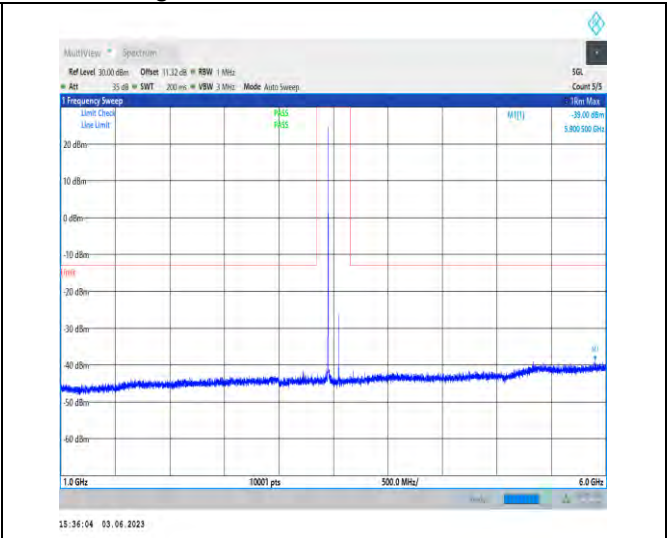


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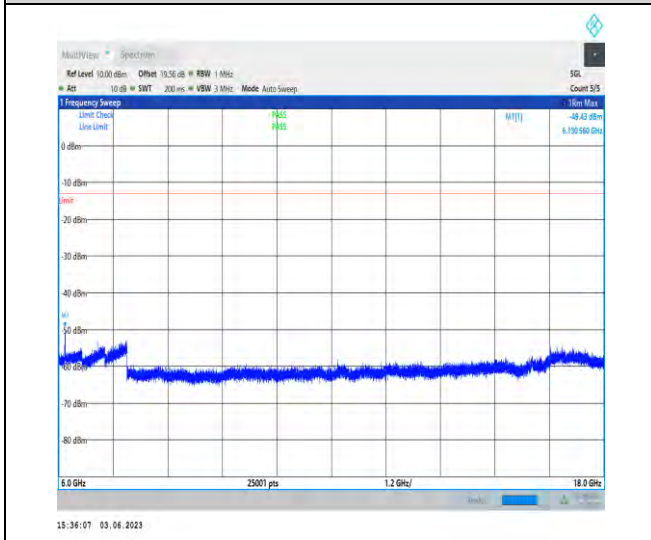
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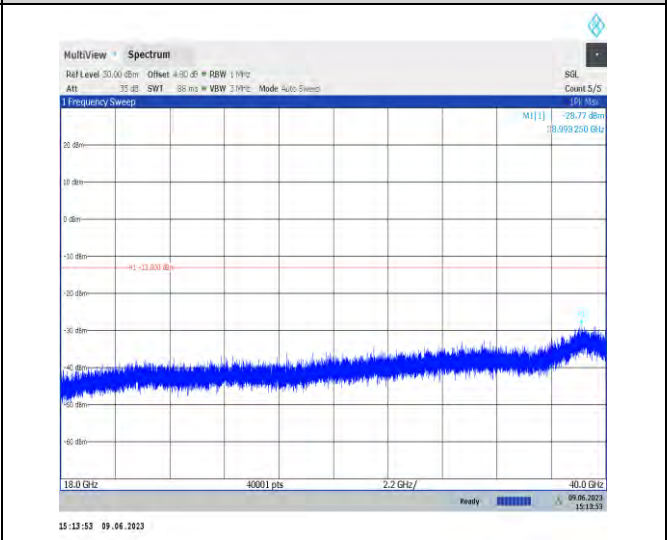
1-N78-3450-3550-PC3-30-100-M-1-N/A-DFT-PI2BP
SK-Inner_1RB_Left-1@1-30-1000-Ant1-30.97--65.7
9--13-PASS



1-N78-3450-3550-PC3-30-100-M-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-1000-6000-Ant1-5900.50--39
.00--13-PASS



1-N78-3450-3550-PC3-30-100-M-1-N/A-DFT-PI2BP
SK-Inner_1RB_Left-1@1-6000-18000-Ant1-6130.56
--49.43--13-PASS

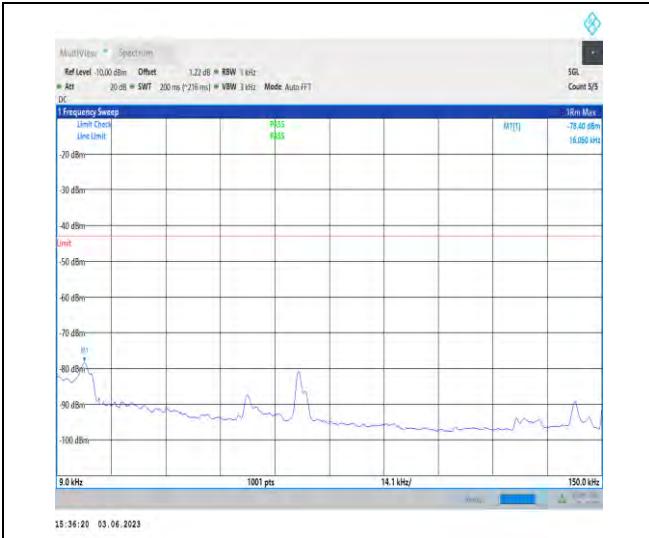


1-N78-3450-3550-PC3-30-100-M-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00
--62.81--13-PASS

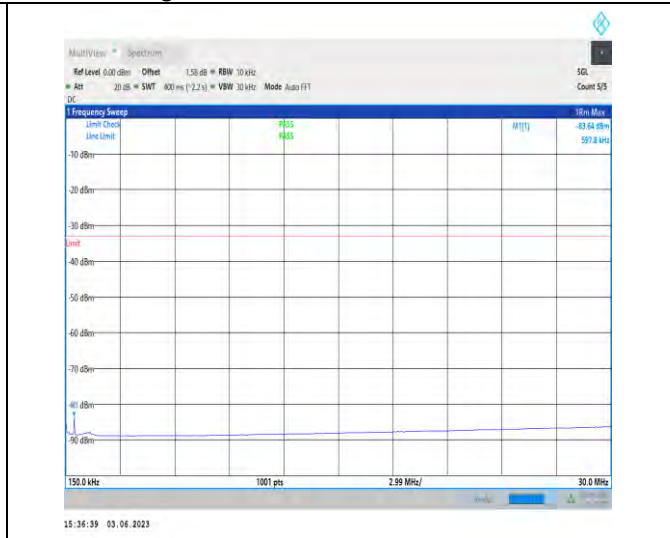


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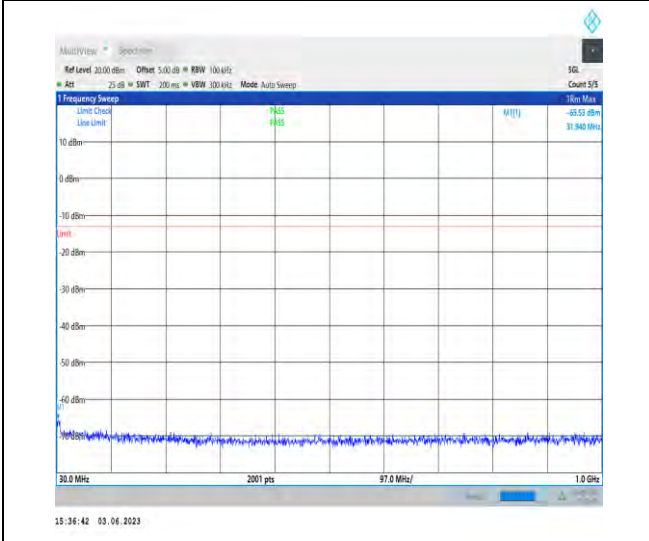
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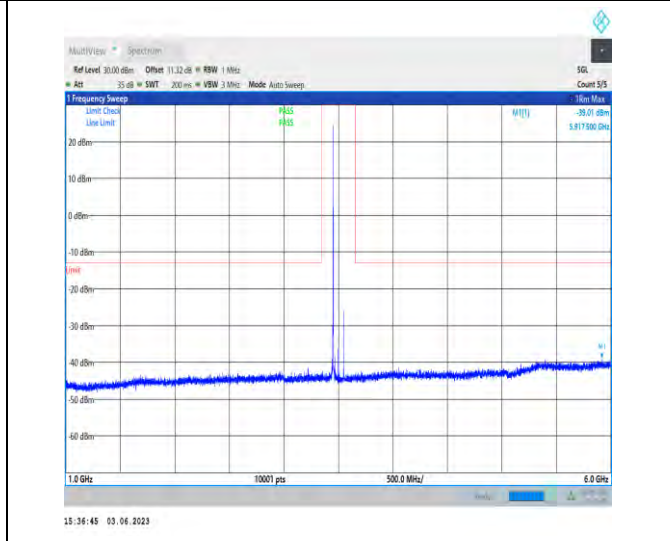
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SK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.02--78.
40--43-PASS



1-N78-3450-3550-PC3-30-100-H-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-0.15-30-Ant1-0.60--83.64--3
3-PASS



1-N78-3450-3550-PC3-30-100-H-1-N/A-DFT-PI2BP
SK-Inner_1RB_Left-1@1-30-1000-Ant1-31.94--65.5
3--13-PASS



1-N78-3450-3550-PC3-30-100-H-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-1000-6000-Ant1-5917.50--39
.01--13-PASS



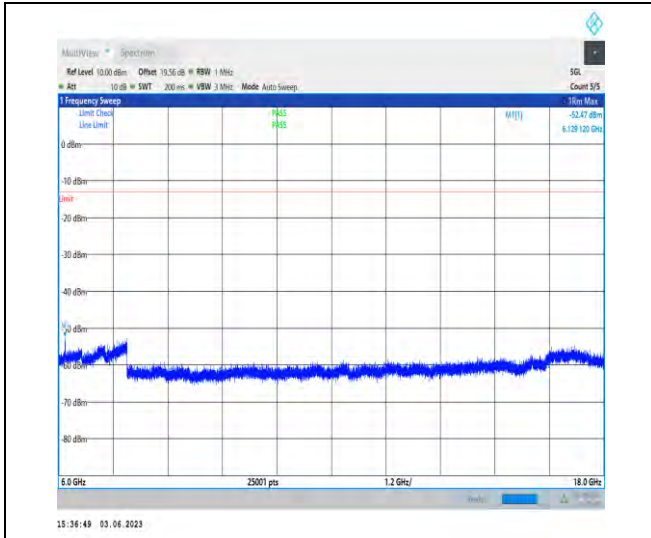
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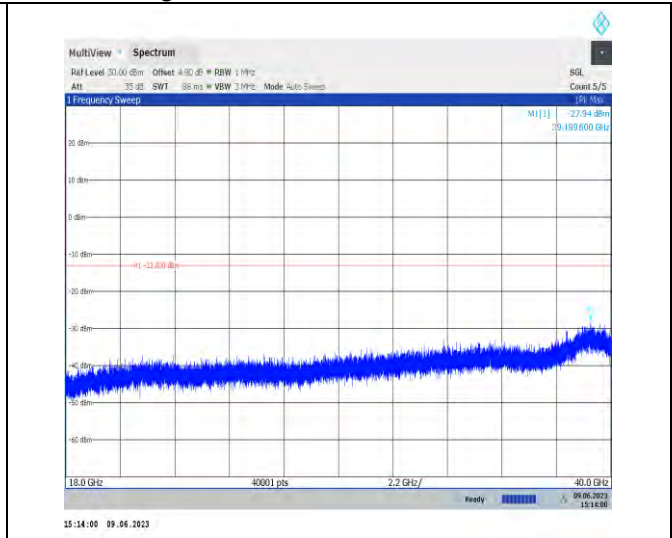
Report No.: SEWM2305000160RG02

Rev.: 01

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1-N78-3450-3550-PC3-30-100-H-1-N/A-DFT-PI2BP
SK-Inner_1RB_Left-1@1-6000-18000-Ant1-6129.12
--52.47--13-PASS



1-N78-3450-3550-PC3-30-100-H-1-N/A-DFT-PI2BPS
K-Inner_1RB_Left-1@1-18000-40000-Ant1-18000.00
--62.53--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA n78_100MHz_TM1

Test Channel = Mid3450-3550 ANT3

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.1800	41.37	-43.80	35.04	-62.66	-13.00	49.66	256	3	Horizontal
2	8417.625	39.65	-41.45	36.59	-60.46	-13.00	47.46	122	360	Horizontal
3	8935.125	38.15	-40.90	36.33	-61.67	-13.00	48.67	188	360	Horizontal
4	10365.2700	32.42	-38.81	38.38	-63.26	-13.00	50.26	175	118	Horizontal
5	13820.3600	28.71	-36.11	40.58	-62.08	-13.00	49.08	126	104	Horizontal
6	17275.4500	30.10	-35.16	43.54	-56.78	-13.00	43.78	199	255	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.1800	40.44	-43.80	35.04	-63.59	-13.00	50.59	125	3	Vertical
2	8423.95	39.82	-41.47	36.59	-60.32	-13.00	47.32	148	105	Vertical
3	10365.2700	33.24	-38.81	38.38	-62.44	-13.00	49.44	175	77	Vertical
4	11462.825	32.30	-36.88	38.75	-61.10	-13.00	48.10	196	25	Vertical
5	13820.3600	27.87	-36.11	40.58	-62.92	-13.00	49.92	213	126	Vertical
6	17275.4500	30.18	-35.16	43.54	-56.70	-13.00	43.70	233	133	Vertical



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Test Band = SA n78_100MHz_TM1
 Test Channel = Mid3450-3550 ANT5

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.1800	40.12	-43.80	35.04	-63.91	-13.00	50.91	195	105	Horizontal
2	8261.225	38.78	-41.98	36.67	-61.79	-13.00	48.79	184	30	Horizontal
3	8814.95	38.00	-41.11	36.39	-61.97	-13.00	48.97	157	316	Horizontal
4	10365.2700	33.12	-38.81	38.38	-62.56	-13.00	49.56	126	360	Horizontal
5	13820.3600	28.59	-36.11	40.58	-62.20	-13.00	49.20	154	352	Horizontal
6	17275.4500	30.25	-35.16	43.54	-56.63	-13.00	43.63	133	195	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.1800	40.29	-43.80	35.04	-63.74	-13.00	50.74	126	316	Vertical
2	8414.75	39.63	-41.43	36.59	-60.47	-13.00	47.47	251	300	Vertical
3	8931.1	38.07	-40.90	36.33	-61.75	-13.00	48.75	144	166	Vertical
4	10365.2700	33.33	-38.81	38.38	-62.35	-13.00	49.35	199	105	Vertical
5	13820.3600	28.74	-36.11	40.58	-62.05	-13.00	49.05	163	330	Vertical
6	17275.4500	30.36	-35.16	43.54	-56.52	-13.00	43.52	213	135	Vertical



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Test Band = NR NSA 41A-n78A_ TM1

Test Channel = Mid 3450-3550 ANT3

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7160.1	40.86	-43.63	36.50	-61.53	-13.00	48.53	154	271	Horizontal
2	8500.425	39.45	-41.80	37.54	-60.07	-13.00	47.07	128	239	Horizontal
3	10108.7	34.24	-38.75	38.66	-61.11	-13.00	48.11	184	331	Horizontal
4	11214.425	32.07	-36.69	39.11	-60.77	-13.00	47.77	175	352	Horizontal
5	12091.3	30.35	-37.19	39.04	-63.06	-13.00	50.06	166	134	Horizontal
6	15147.425	29.20	-34.14	39.02	-61.18	-13.00	48.18	258	196	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7120.425	41.18	-43.65	36.39	-61.34	-13.00	48.34	211	254	Vertical
2	8403.25	39.97	-41.38	37.34	-59.34	-13.00	46.34	126	360	Vertical
3	9563.025	35.99	-39.48	38.45	-60.30	-13.00	47.30	135	254	Vertical
4	10690.025	33.07	-37.54	39.13	-60.60	-13.00	47.60	148	352	Vertical
5	12822.7	30.25	-36.68	39.65	-62.03	-13.00	49.03	175	165	Vertical
6	14489.625	27.99	-34.32	40.02	-61.57	-13.00	48.57	196	225	Vertical



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Test Band = NR NSA 41A-n78A_ TM1
Test Channel = Mid 3450-3550 ANT5

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7063.5	41.17	-43.42	36.25	-61.26	-13.00	48.26	155	284	Horizontal
2	9011.6	38.25	-40.82	38.21	-59.62	-13.00	46.62	148	360	Horizontal
3	10111.575	34.13	-38.77	38.67	-61.23	-13.00	48.23	172	88	Horizontal
4	11446.725	32.06	-37.04	39.06	-61.18	-13.00	48.18	126	104	Horizontal
5	13606.425	29.72	-36.04	40.14	-61.43	-13.00	48.43	299	254	Horizontal
6	15816.725	28.31	-33.24	38.17	-62.02	-13.00	49.02	184	74	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7072.7	41.45	-43.48	36.27	-61.02	-13.00	48.02	255	120	Vertical
2	8649.35	38.54	-41.11	37.83	-60.00	-13.00	47.00	142	255	Vertical
3	10161.025	34.53	-39.05	38.75	-61.04	-13.00	48.04	126	28	Vertical
4	11149.45	32.73	-37.18	39.10	-60.61	-13.00	47.61	158	283	Vertical
5	12221.25	30.81	-37.01	39.12	-62.34	-13.00	49.34	199	28	Vertical
6	13847.35	30.36	-35.93	40.00	-60.83	-13.00	47.83	180	314	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



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-2.100000	-0.000600	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-7.900000	-0.002257	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-4.000000	-0.001143	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	VH	NT	-1.600000	-0.000457	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	-4.400000	-0.001257	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	VL	NT	-0.100000	-0.000029	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-9.900000	-0.002829	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-18.000000	-0.005143	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	7.600000	0.002171	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-8.000000	-0.002286	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-8.200000	-0.002343	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	5.300000	0.001514	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-7.400000	-0.002114	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-10.900000	-0.003114	PASS
N78 -3450-3550	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-11.300000	-0.003229	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-30	-18.600000	-0.005314	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-20	-6.600000	-0.001886	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	-10	-12.000000	-0.003429	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	0	-10.600000	-0.003029	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	10	-14.500000	-0.004143	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	20	-18.200000	-0.005200	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	30	-3.600000	-0.001029	PASS
N78 -3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	40	-7.700000	-0.002200	PASS



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-3450-3550										
N78	30	100	CP-QPSK	M	Outer_Full	NV	50	-18.500000	-0.005286	PASS
-3450-3550										

---End of Attachment---



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