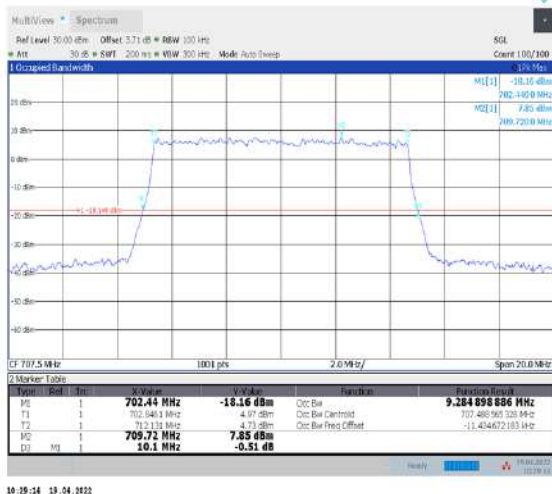


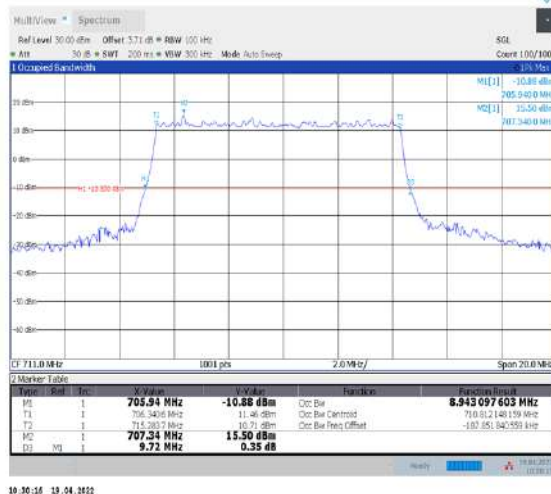
Report No.: SEWM2304000122RG02

Rev.: 01

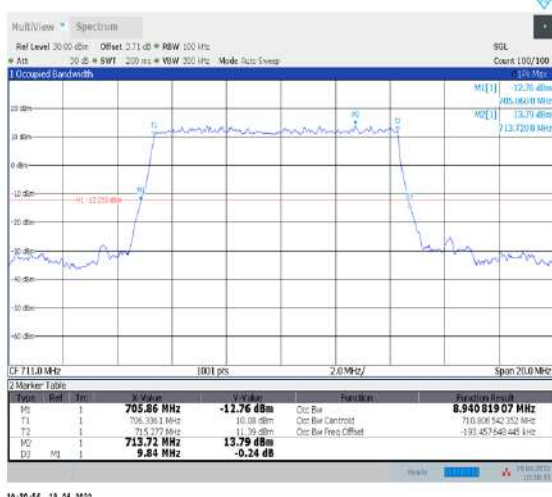
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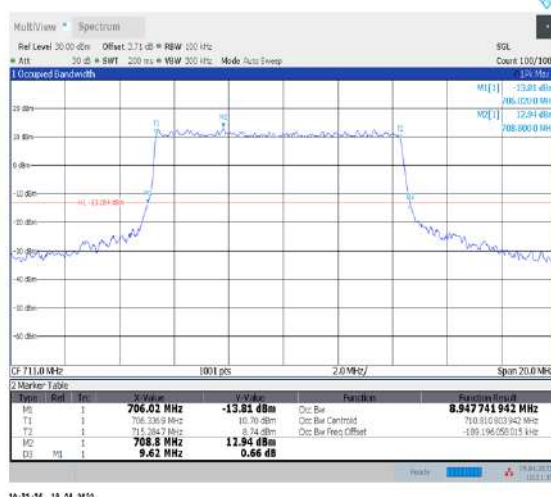
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Ant1-8.943-9.720-≤10-PASS



1-N12--15-10-H-2-DFT-PI2BPSK-Outer_Full-50@0-
Ant1-8.941-9.840-≤10-PASS



1-N12--15-10-H-3-DFT-16QAM-Outer_Full-50@0-
Ant1-8.948-9.620-≤10-PASS



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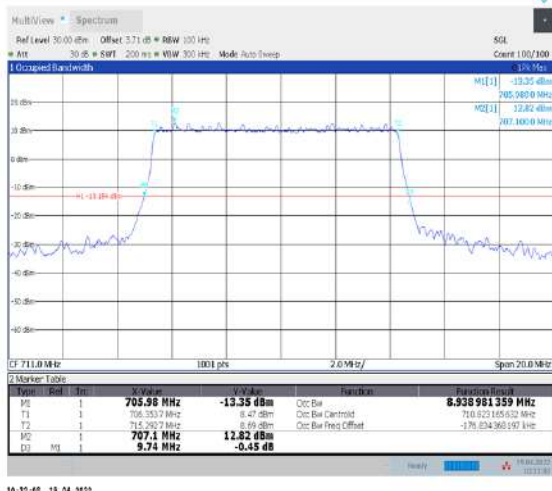
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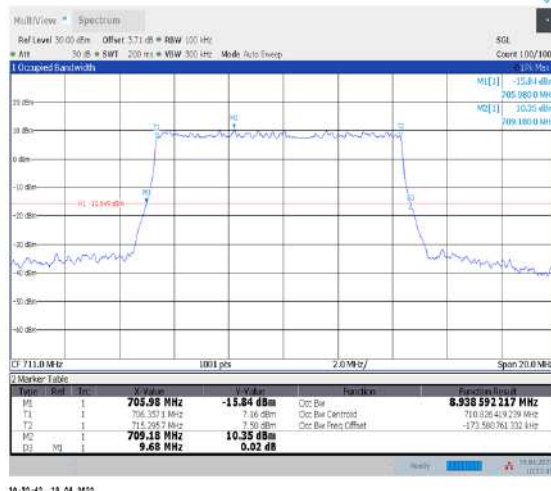
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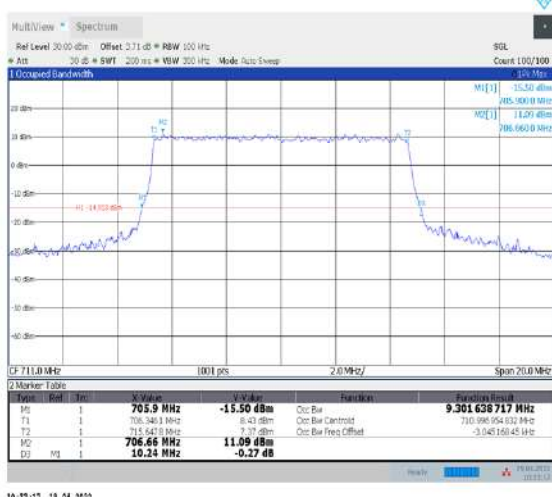
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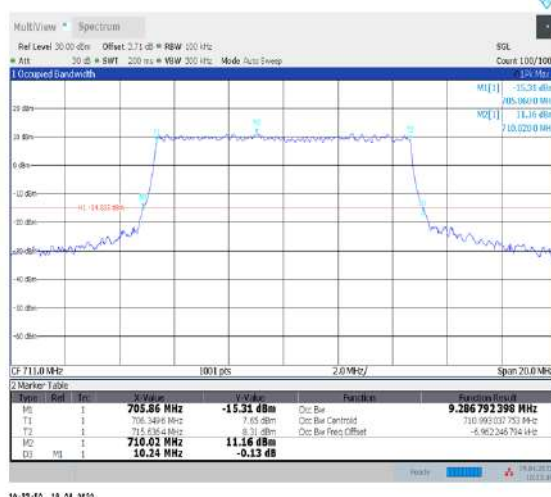
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1-N12--15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-9.302-10.240-≤10-PASS



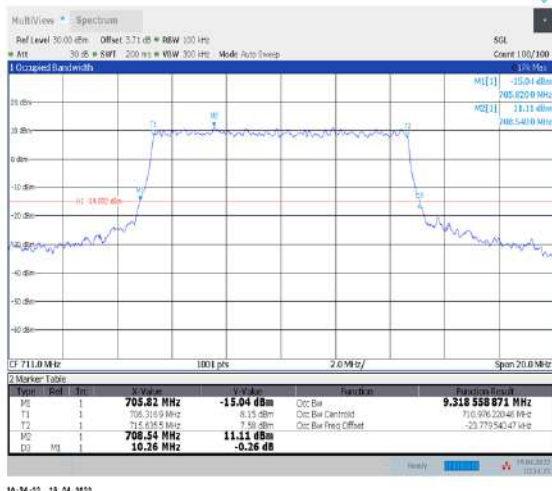
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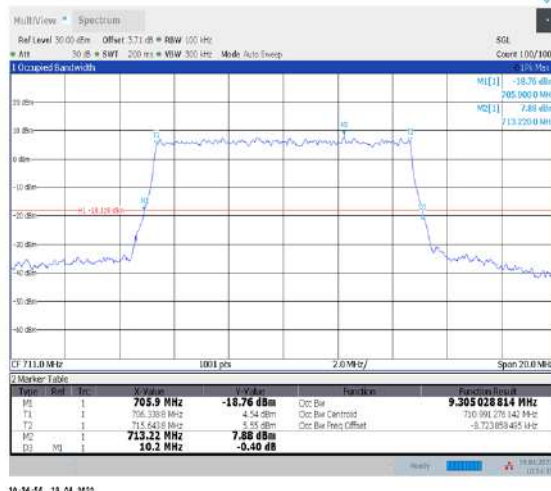
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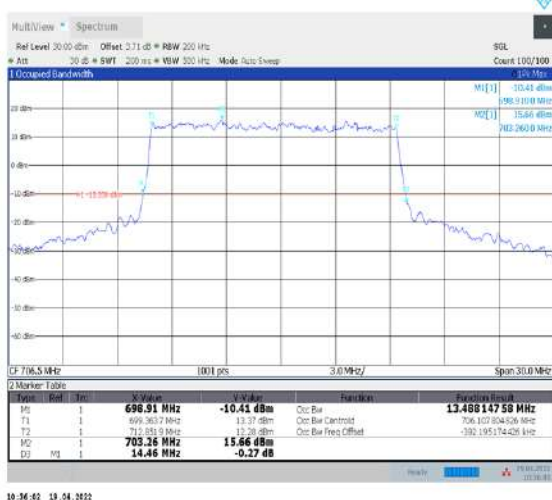
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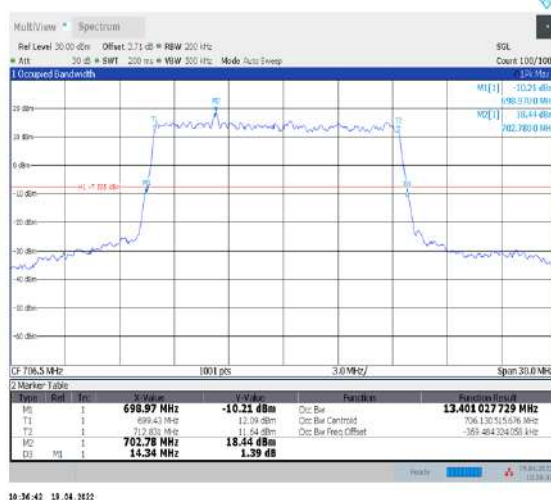
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10-36-42 10-36-42

1-N12--15-15-L-2-DFT-PI2BPSK-Outer_Full-75@0-
Ant1-13.401-14.340-≤15-PASS



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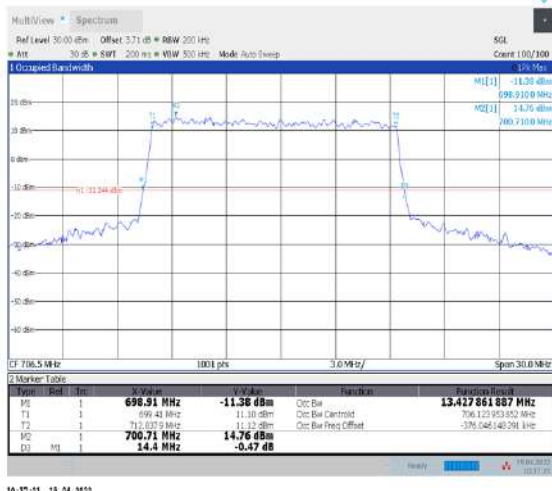
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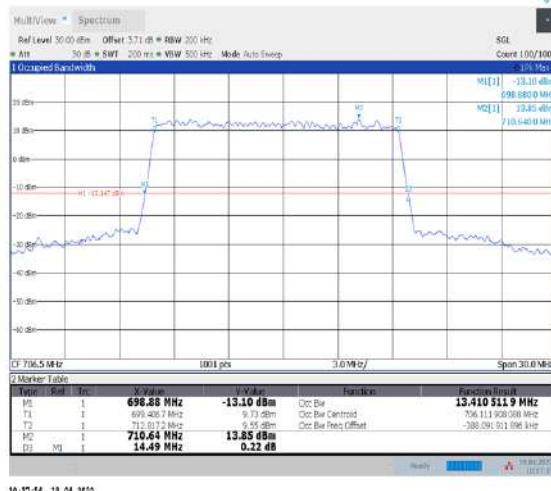
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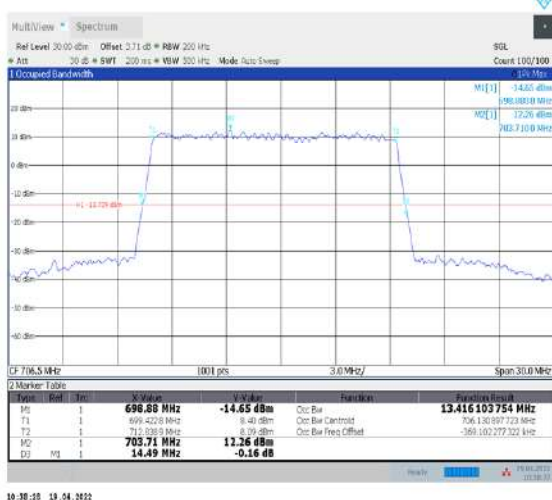
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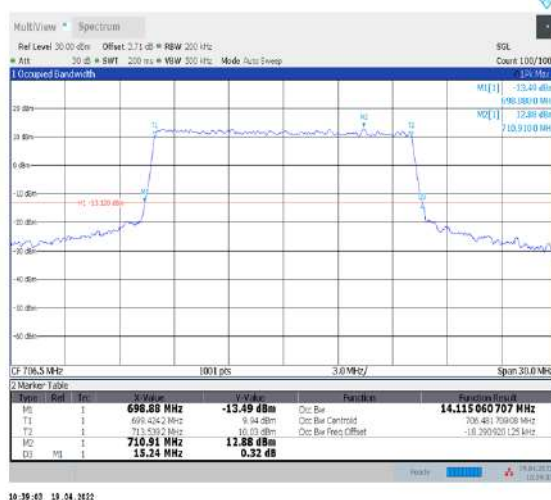
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10:38:20 13.04.2022

1-N12--15-15-L-5-DFT-256QAM-Outer_Full-75@0-Ant1-13.416-14.490-≤15-PASS



10:39:40 13.04.2022

1-N12--15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant1-14.115-15.240-≤15-PASS



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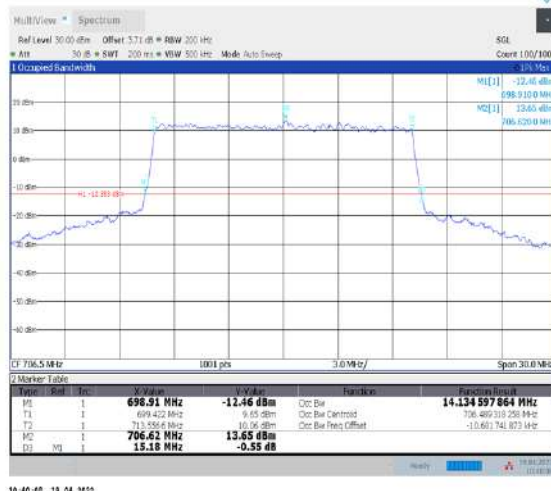
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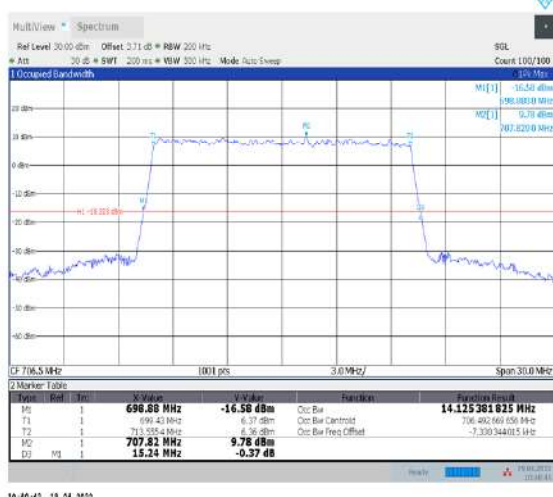
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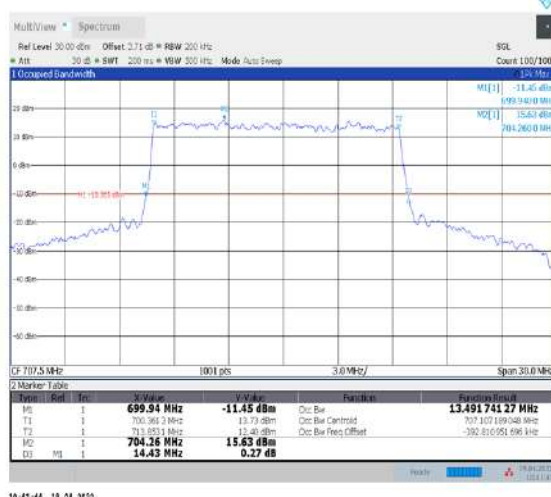
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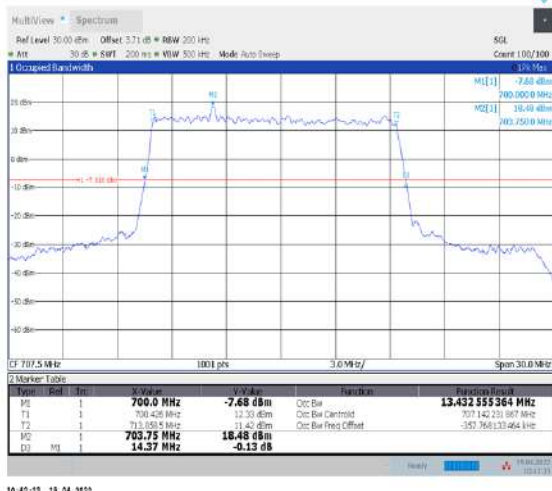
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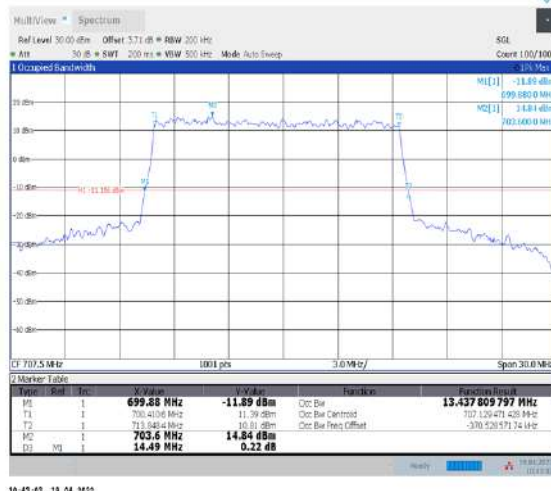
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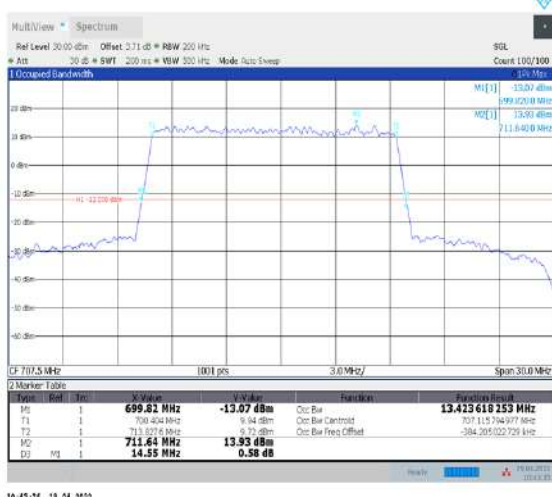
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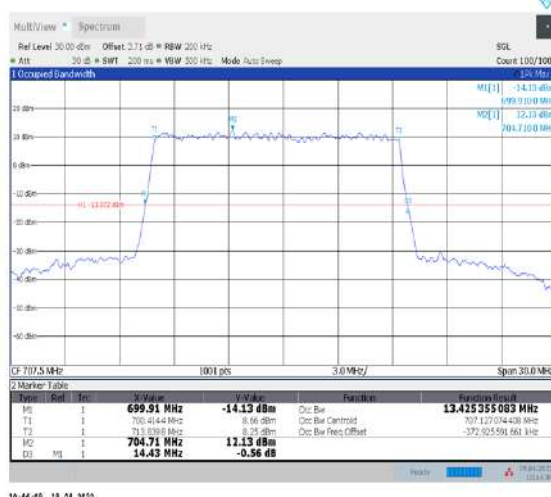
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1-N12--15-15-M-4-DFT-64QAM-Outer_Full-75@0-Ant1-13.424-14.550-≤15-PASS



1-N12--15-15-M-5-DFT-256QAM-Outer_Full-75@0-Ant1-13.425-14.430-≤15-PASS



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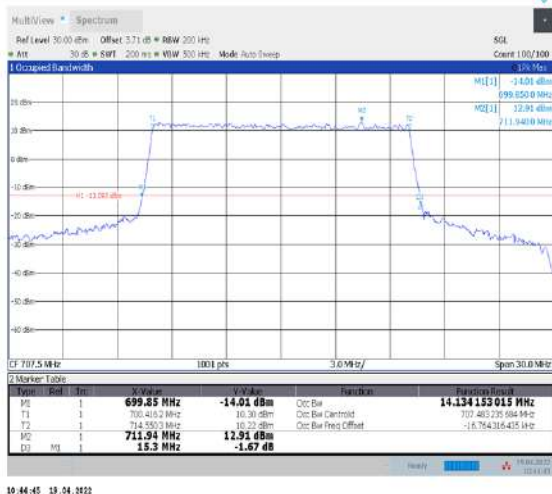
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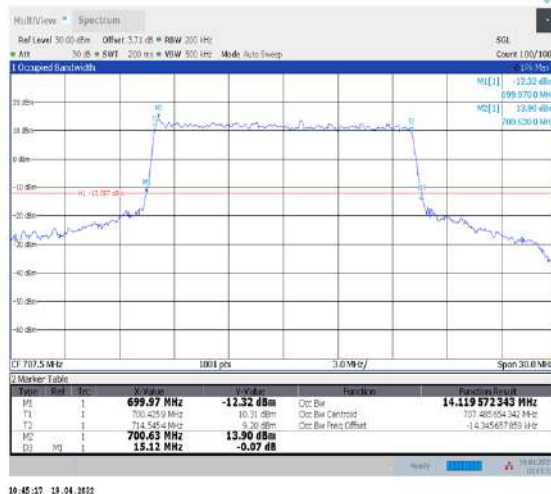
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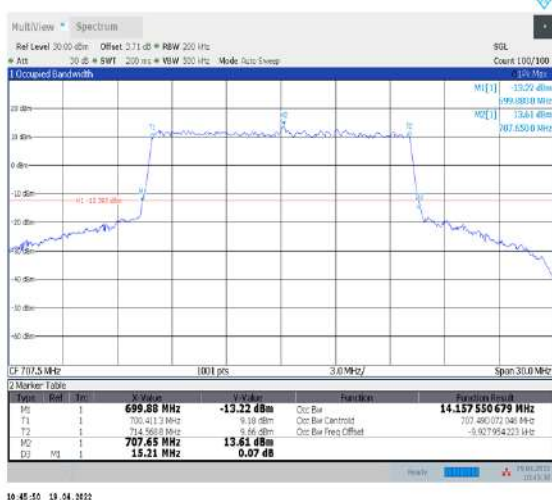
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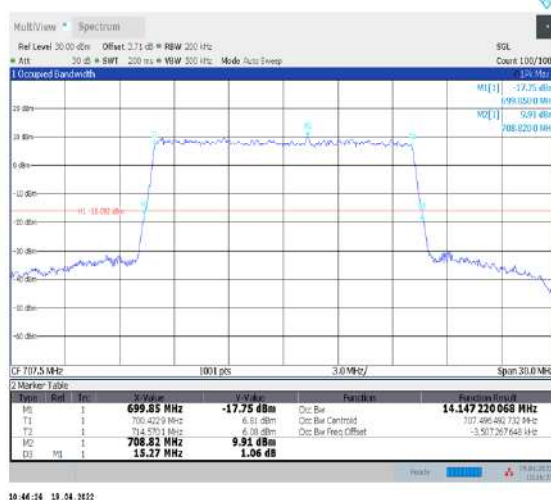
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10:46:54 19.04.2022

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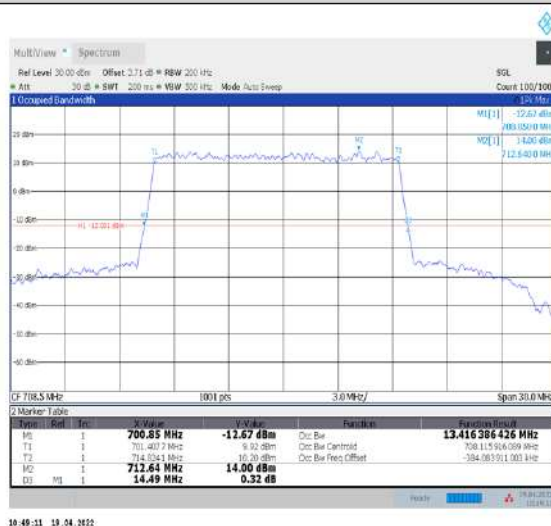
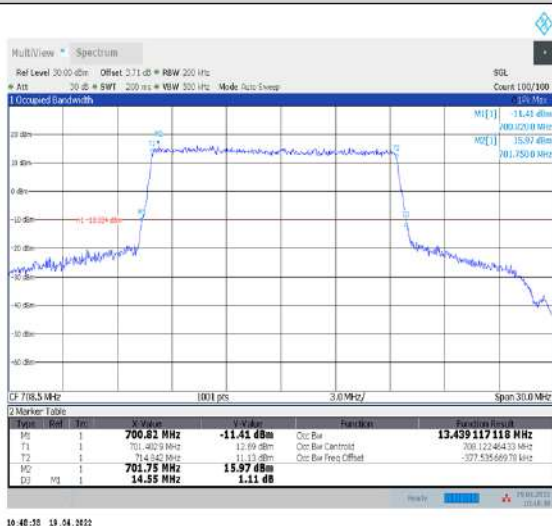
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1-N12--15-15-H-1-DFT-QPSK-Outer_Full-75@0-Ant1-13.5-14.460-≤15-PASS

1-N12--15-15-H-2-DFT-PI2BPSK-Outer_Full-75@0-Ant1-13.425-14.340-≤15-PASS



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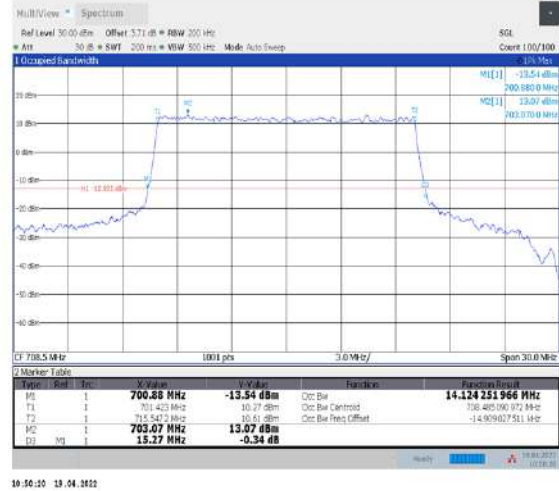
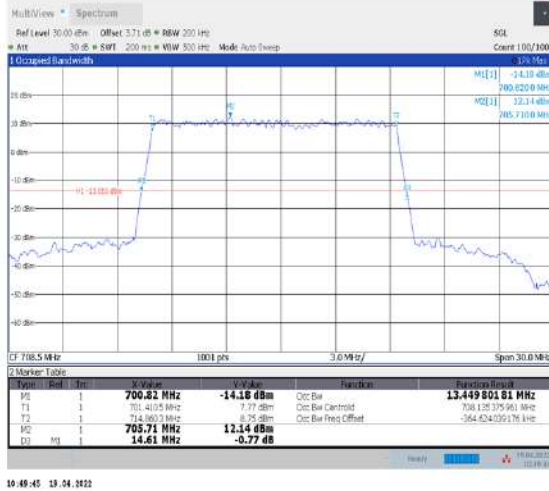


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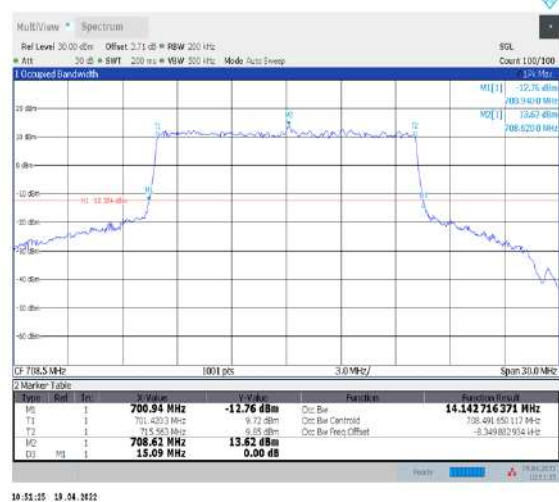
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1-N12--15-15-H-5-DFT-256QAM-Outer_Full-75@0-Ant1-13.45-14.610-≤15-PASS

1-N12--15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant1-13.45-14.610-≤15-PASS



1-N12--15-15-H-7-CP-16QAM-Outer_Full-79@0-Ant1-14.124-15.240-≤15-PASS

1-N12--15-15-H-8-CP-64QAM-Outer_Full-79@0-Ant1-14.143-15.090-≤15-PASS



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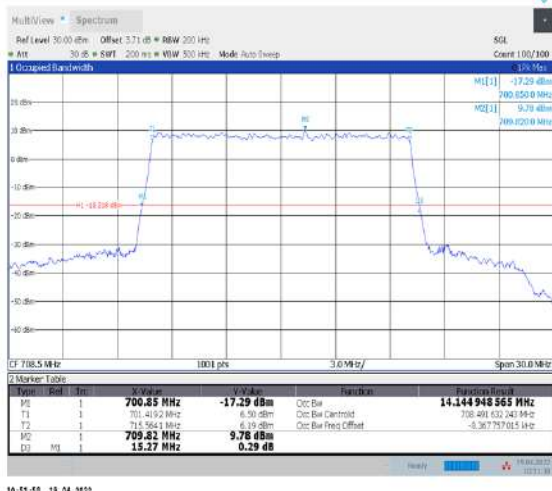
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1-N12--15-15-H-9-CP-256QAM-Outer_Full-79@0-
Ant1-14.145-15.270-≤15-PASS



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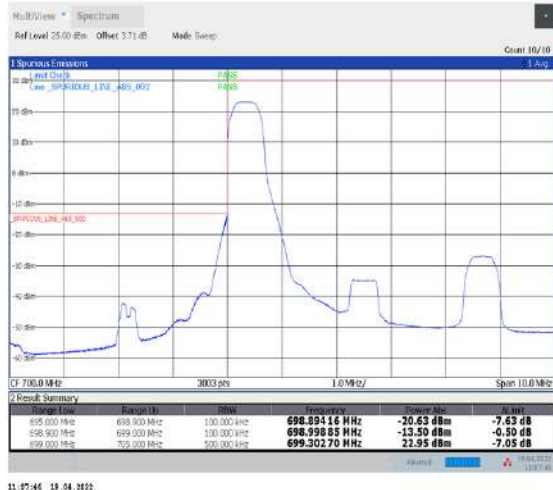
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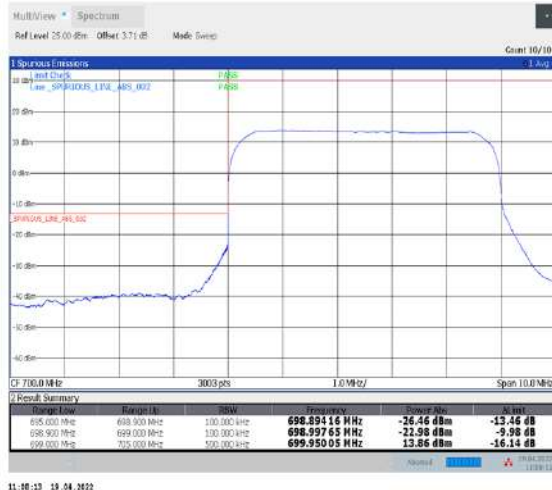
Band Edge for SA

Test Graphs



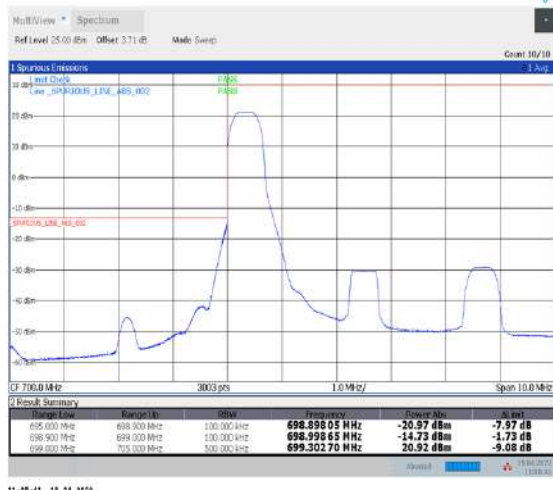
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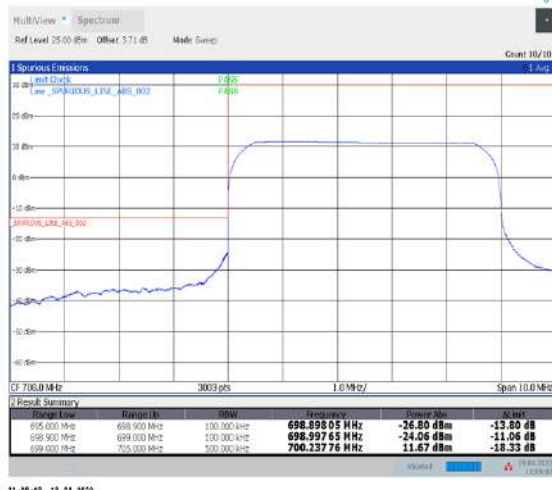
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1-N12--15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-PASS-see graph



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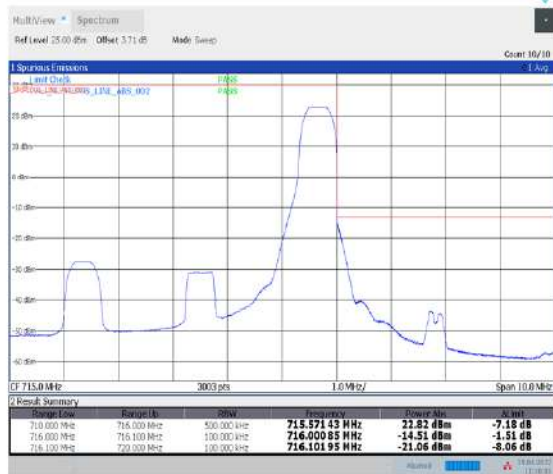
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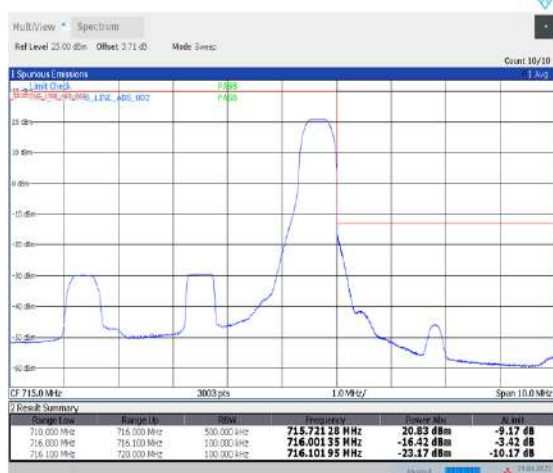
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11:11:23 19.04.2022

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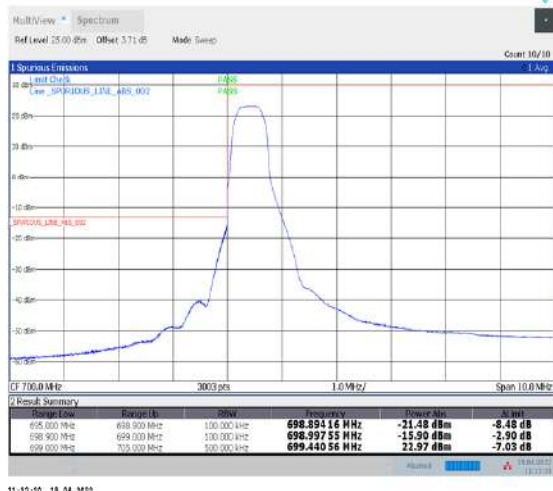
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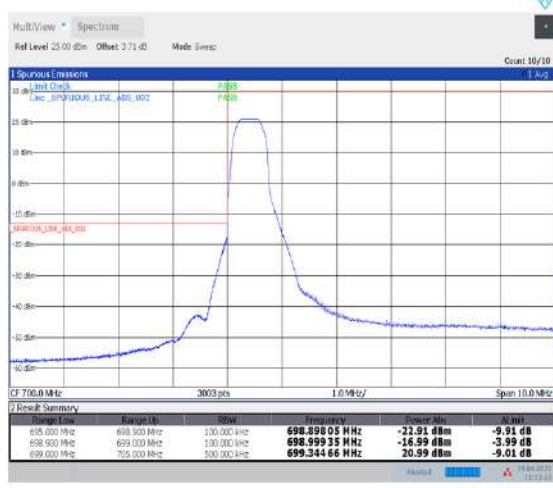
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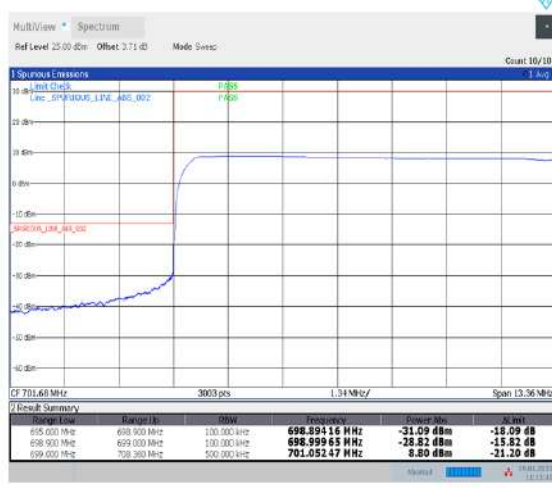
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1-N12--15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-PASS-see graph



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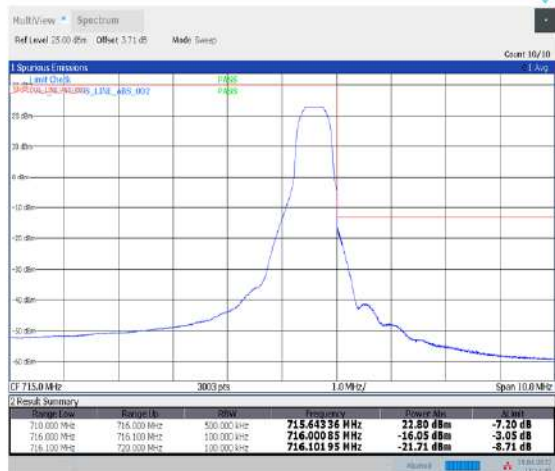
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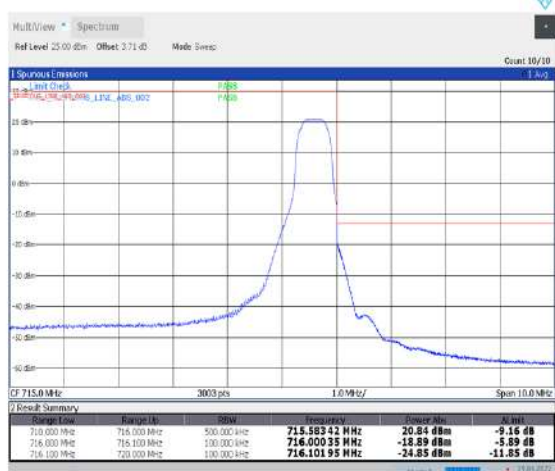
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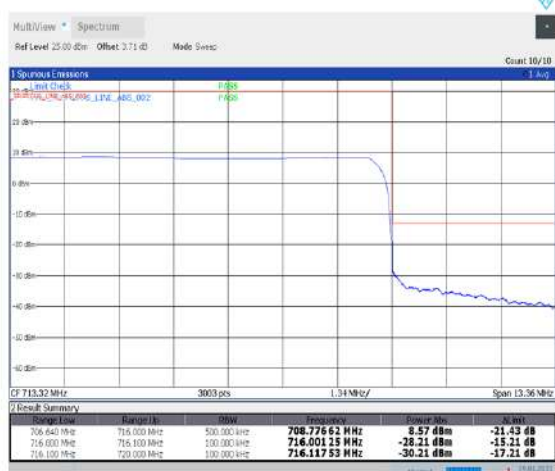
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1-N12--15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-PASS-see graph



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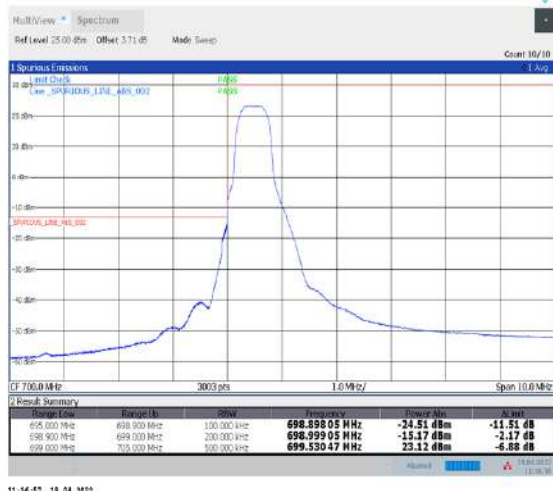
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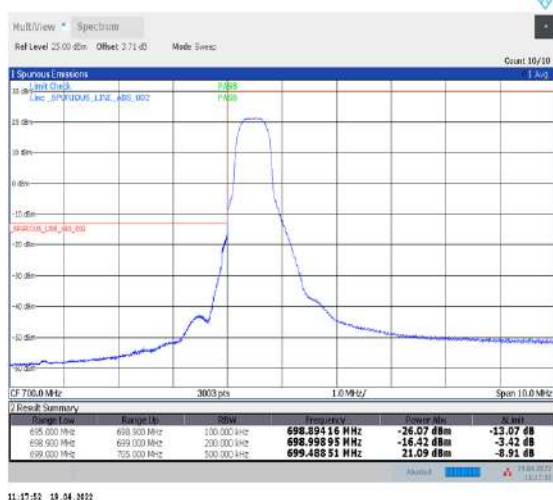
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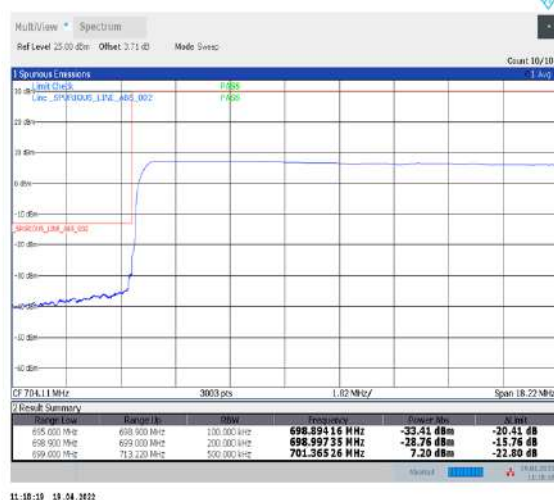
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11:18:19 19.04.2022

1-N12--15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant1-PASS-see graph



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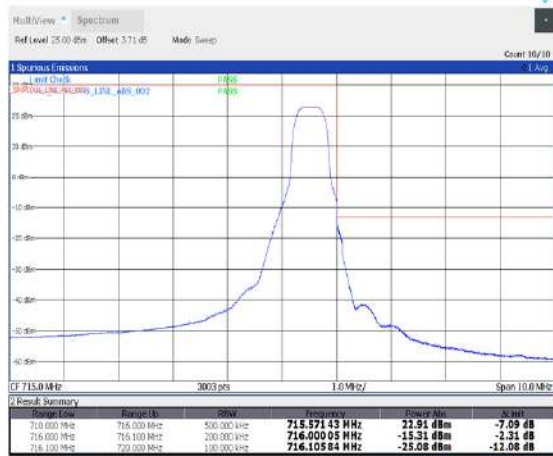
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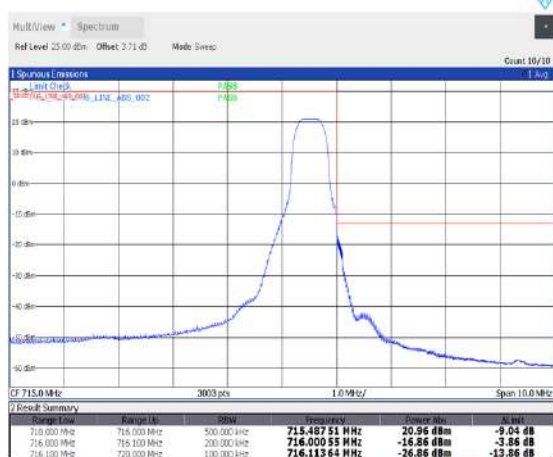
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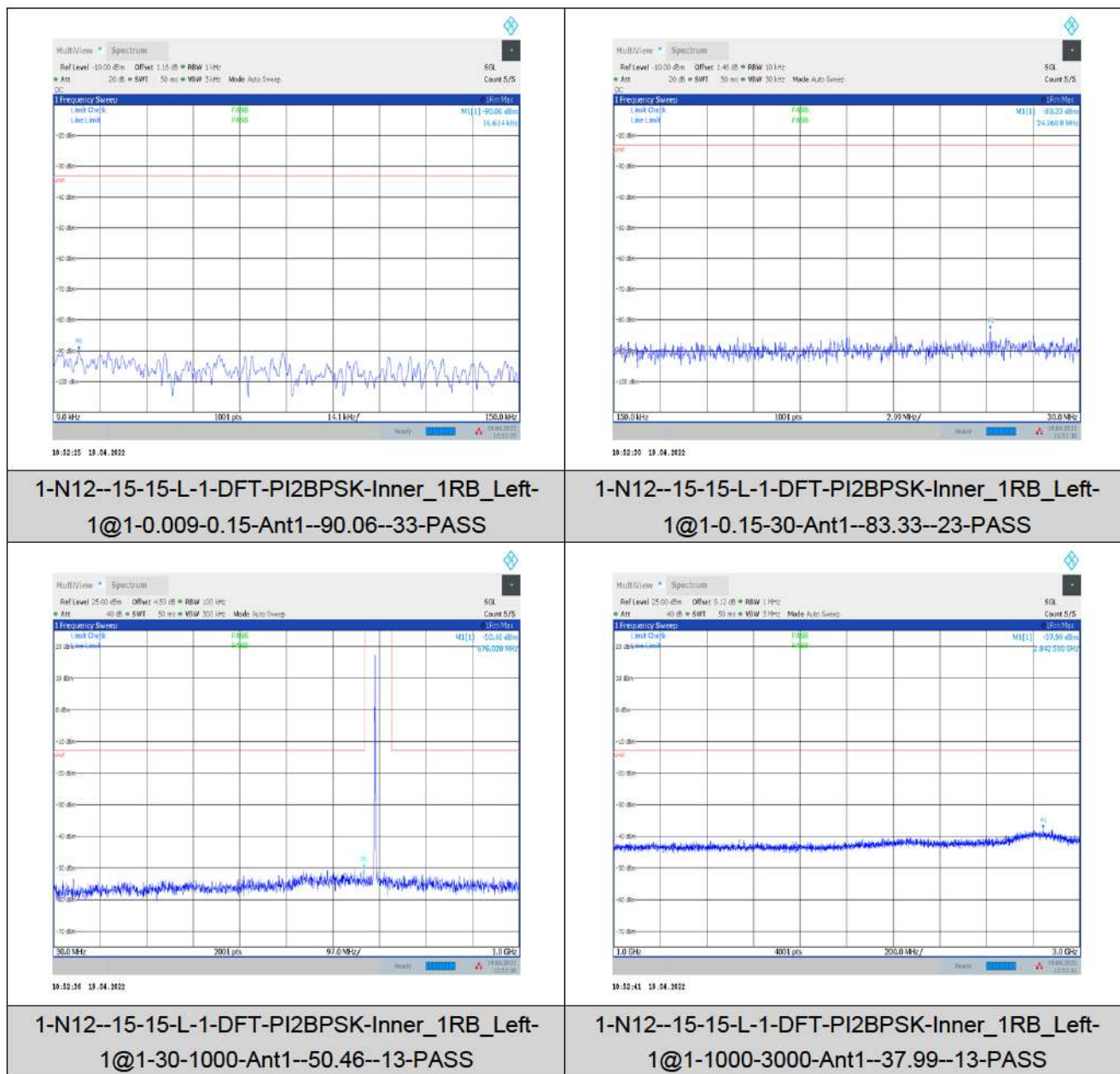
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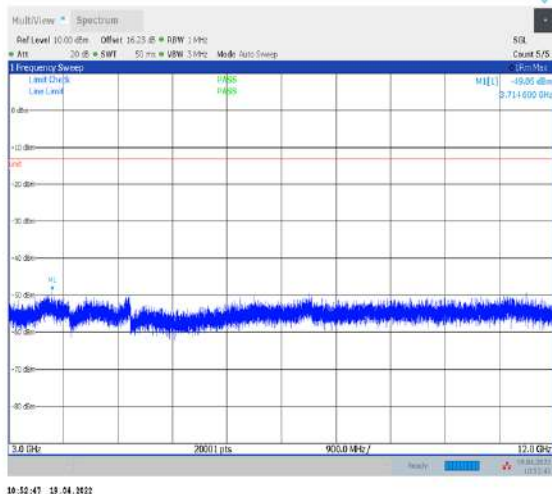
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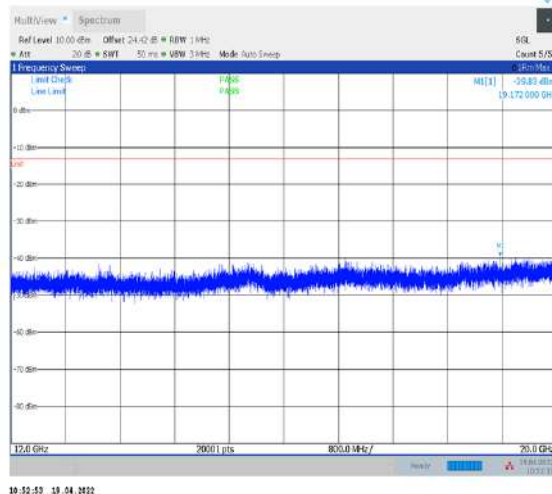
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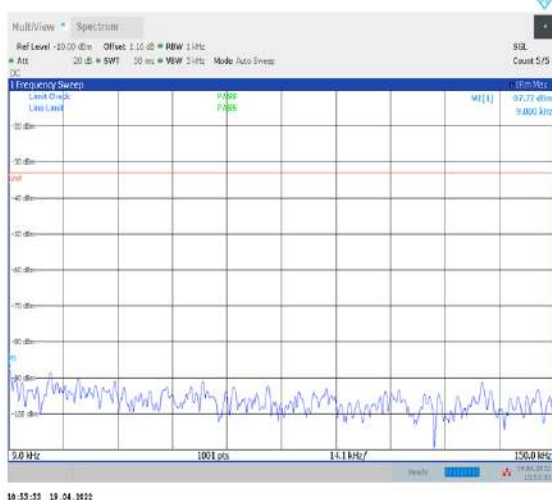
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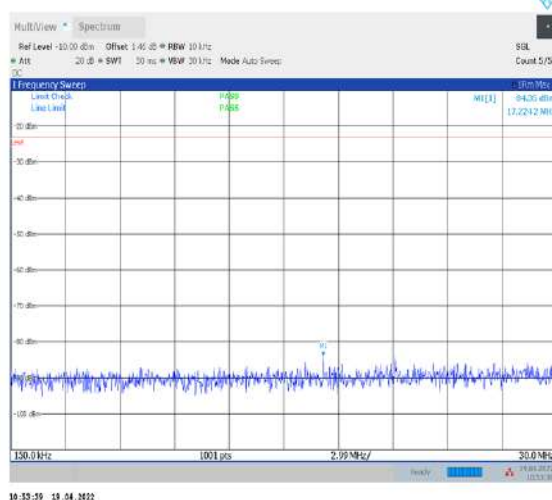
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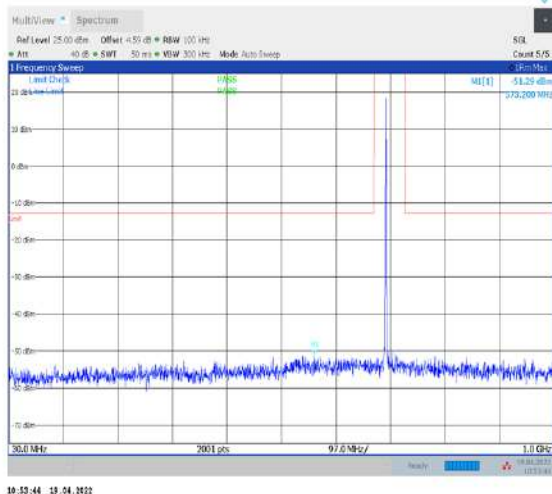


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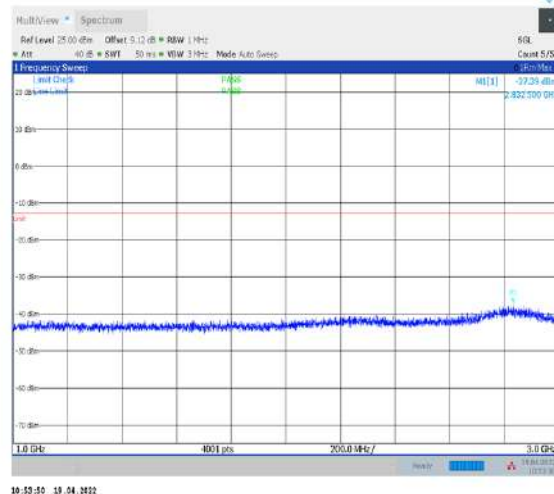
Report No.: SEWM2304000122RG02

Rev.: 01

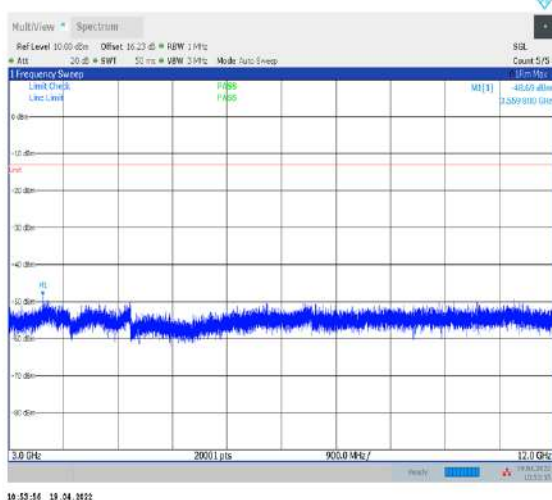
Page: 45 of 52



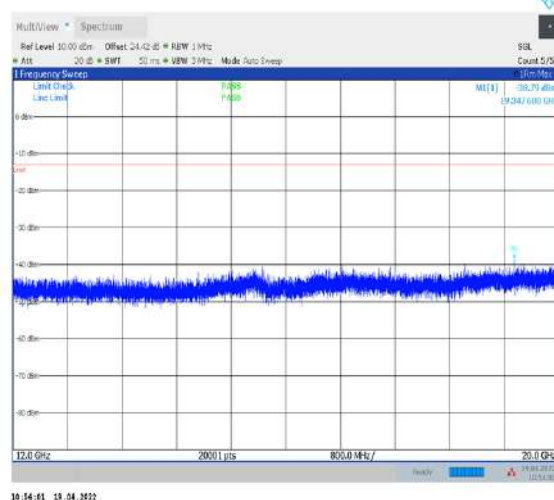
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1-N12--15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1--37.39--13-PASS



1-N12--15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant1--48.69--13-PASS



1-N12--15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-20000-Ant1--38.79--13-PASS



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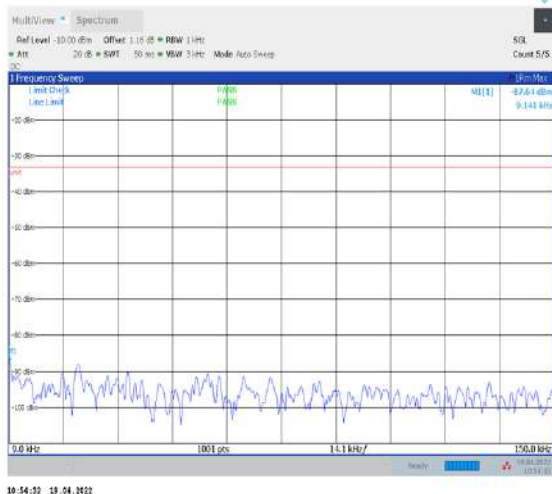
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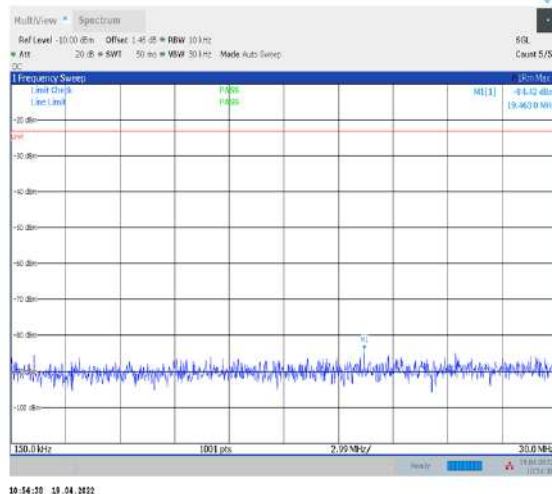
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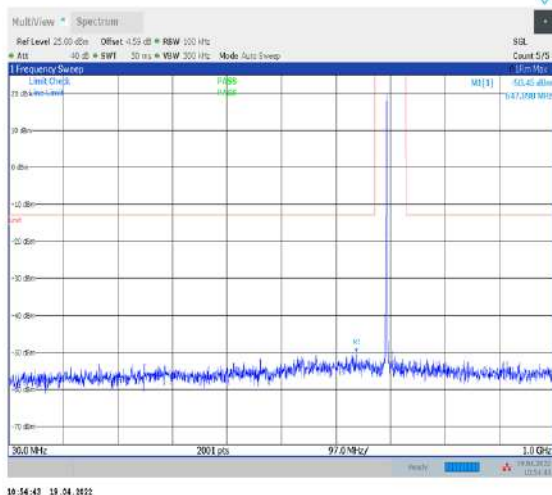
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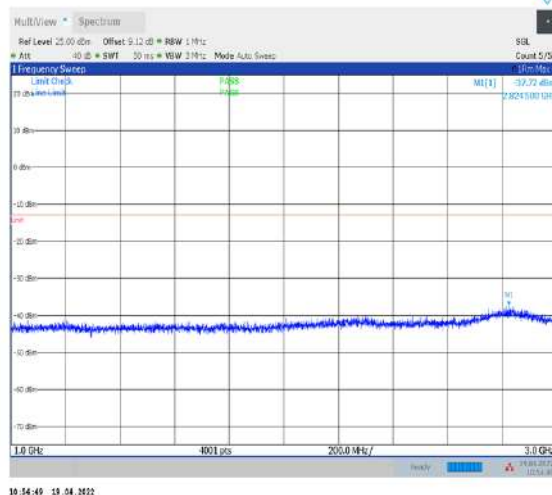
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1-N12-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1--84.42--23-PASS



1-N12-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1--50.45--13-PASS



1-N12-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1--37.72--13-PASS



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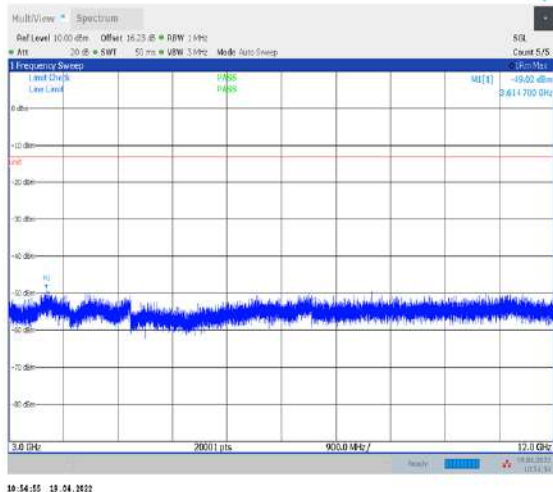
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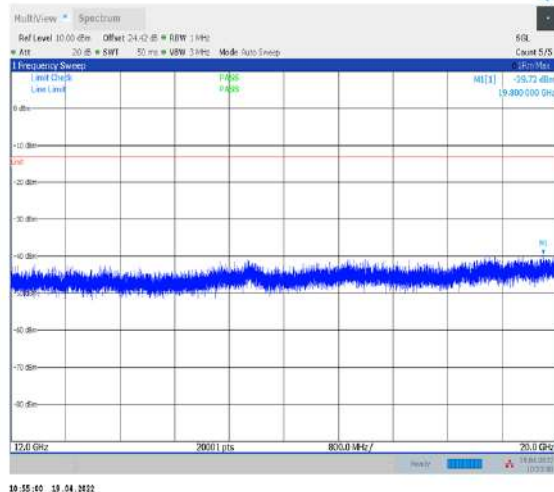
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1-N12--15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-
1@1-3000-12000-Ant1--49.02--13-PASS



1-N12--15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-
1@1-12000-20000-Ant1--39.72--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 12_ TM1

Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.68	53.45	-118.59	-65.14	-13.00	52.14	263	357	Horizontal
2	2099.52	53.42	-116.04	-62.62	-13.00	49.62	251	175	Horizontal
3	2799.36	51.05	-113.02	-61.97	-13.00	48.97	175	357	Horizontal
4	3499.2	50.03	-111.91	-61.88	-13.00	48.88	265	175	Horizontal
5	4199.04	48.48	-109.45	-60.97	-13.00	47.97	284	298	Horizontal
6	4898.88	50.83	-108.05	-57.22	-13.00	44.22	144	50	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.68	53.41	-118.59	-65.18	-13.00	52.18	263	76	Vertical
2	2099.52	51.49	-116.04	-64.55	-13.00	51.55	241	278	Vertical
3	2799.36	51.87	-113.02	-61.15	-13.00	48.15	176	123	Vertical
4	3499.2	51.64	-111.91	-60.27	-13.00	47.27	284	360	Vertical
5	4199.04	48.53	-109.45	-60.92	-13.00	47.92	166	310	Vertical
6	4898.88	51.48	-108.05	-56.57	-13.00	43.57	324	295	Vertical



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Test Band = SA Band 12_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1401.68	51.71	-118.58	-66.87	-13.00	53.87	251	112	Horizontal
2	2102.52	52.40	-116.03	-63.63	-13.00	50.63	142	86	Horizontal
3	2803.36	50.41	-113.01	-62.60	-13.00	49.60	262	33	Horizontal
4	3504.2	51.90	-111.89	-59.99	-13.00	46.99	284	96	Horizontal
5	4205.04	48.71	-109.44	-60.73	-13.00	47.73	176	55	Horizontal
6	4905.88	49.83	-108.03	-58.20	-13.00	45.20	265	127	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1401.68	52.26	-118.58	-66.32	-13.00	53.32	263	155	Vertical
2	2102.52	52.84	-116.03	-63.19	-13.00	50.19	251	314	Vertical
3	2803.36	51.80	-113.01	-61.21	-13.00	48.21	174	353	Vertical
4	3504.2	50.49	-111.89	-61.40	-13.00	48.40	286	62	Vertical
5	4205.04	49.27	-109.44	-60.17	-13.00	47.17	264	187	Vertical
6	4905.88	51.04	-108.03	-56.99	-13.00	43.99	144	283	Vertical



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Test Band = SA Band 12_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1403.5556	63.64	-118.58	-54.94	-13.00	41.94	263	357	Horizontal
2	2104.4444	79.39	-116.02	-36.63	-13.00	23.63	251	313	Horizontal
3	2807.36	51.73	-113.00	-61.27	-13.00	48.27	174	76	Horizontal
4	3509.2	50.50	-111.88	-61.38	-13.00	48.38	286	0	Horizontal
5	4211.04	48.86	-109.43	-60.57	-13.00	47.57	264	266	Horizontal
6	4912.88	49.67	-108.00	-58.33	-13.00	45.33	188	156	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1403.68	52.88	-118.58	-65.70	-13.00	52.70	142	313	Vertical
2	2105.52	53.05	-116.02	-62.97	-13.00	49.97	263	360	Vertical
3	2807.36	51.29	-113.00	-61.71	-13.00	48.71	284	187	Vertical
4	3509.2	50.89	-111.88	-60.99	-13.00	47.99	176	218	Vertical
5	4211.04	48.07	-109.43	-61.36	-13.00	48.36	264	360	Vertical
6	4912.88	50.35	-108.00	-57.65	-13.00	44.65	188	77	Vertical



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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
N12	15	15	DFT-PI2BPSK	M	Outer_Full	VH	NT	-1.600000	-0.002261	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	VN	NT	-3.000000	-0.004240	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	VL	NT	-2.800000	-0.003958	PASS
N12	15	15	CP-QPSK	M	Outer_Full	VH	NT	1.400000	0.001979	PASS
N12	15	15	CP-QPSK	M	Outer_Full	VN	NT	-0.700000	-0.000989	PASS
N12	15	15	CP-QPSK	M	Outer_Full	VL	NT	-0.500000	-0.000707	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-30	-1.500000	-0.002120	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-20	-2.400000	-0.003392	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-10	-1.300000	-0.001837	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	0	-0.800000	-0.001131	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	10	-2.800000	-0.003958	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	20	-1.400000	-0.001979	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	30	-3.100000	-0.004382	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	40	-2.400000	-0.003392	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	50	-1.800000	-0.002544	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	-30	-0.100000	-0.000141	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	-20	-1.100000	-0.001555	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	-10	-0.900000	-0.001272	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	0	0.200000	0.000283	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	10	-0.800000	-0.001131	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	20	-1.000000	-0.001413	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	30	-0.600000	-0.000848	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	40	0.000000	0.000000	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	50	-0.200000	-0.000283	PASS

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