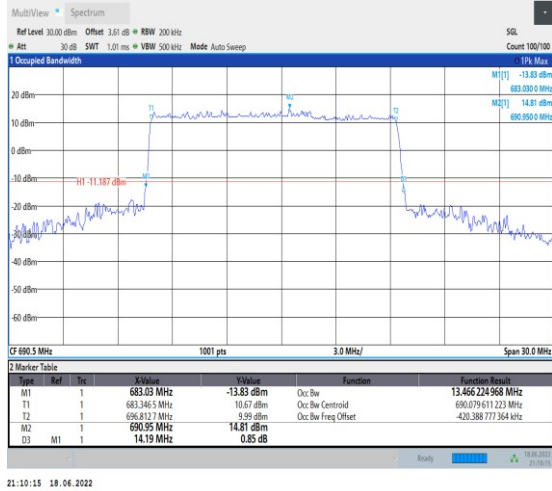


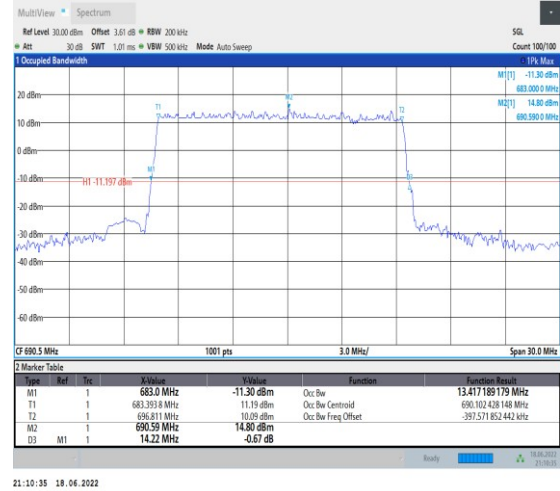
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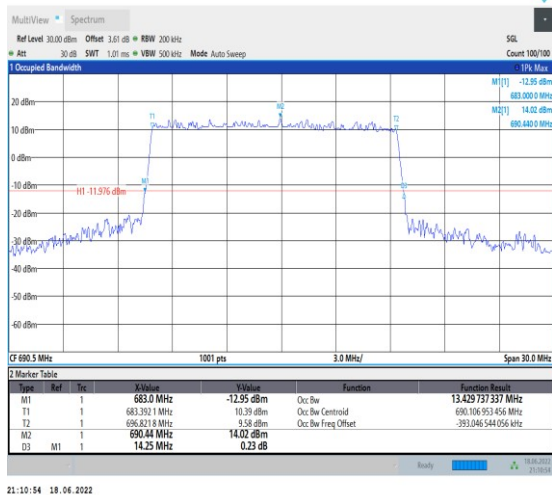
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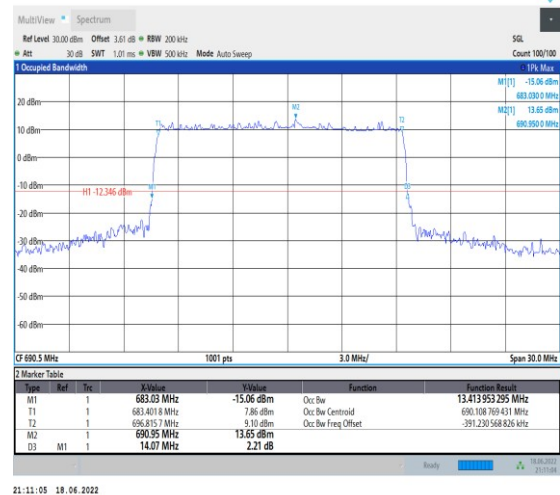
1-N71--15-15-H-1-DFT-QPSK-Outer_Full-75@0-Ant
1-13.466-14.190≤15-PASS



1-N71--15-15-H-2-DFT-PI2BPSK-Outer_Full-75@0-Ant
1-13.417-14.220≤15-PASS



1-N71--15-15-H-3-DFT-16QAM-Outer_Full-75@0-Ant
t1-13.43-14.250≤15-PASS



1-N71--15-15-H-4-DFT-64QAM-Outer_Full-75@0-Ant
t1-13.414-14.070≤15-PASS



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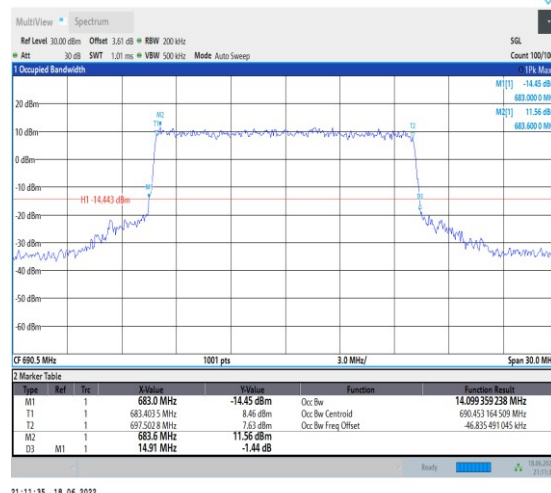
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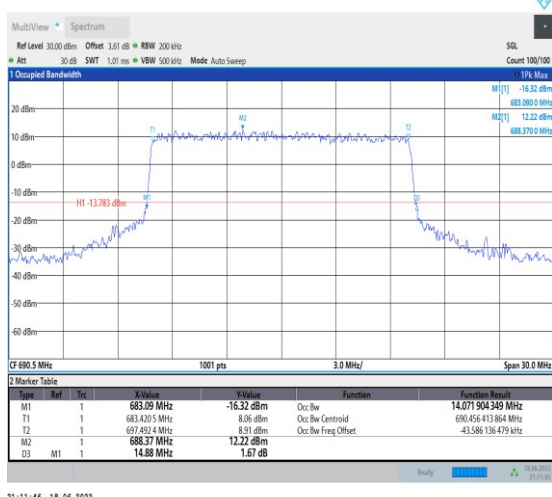
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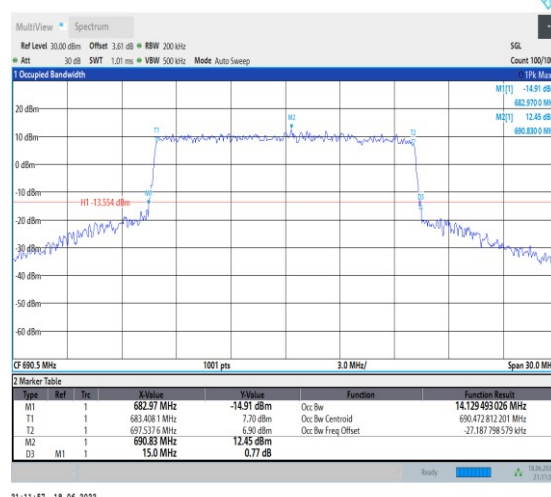
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nt1-13.418-14.130-≤15-PASS



1-N71--15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant1-
14.099-14.910-≤15-PASS



1-N71--15-15-H-7-CP-16QAM-Outer_Full-79@0-Ant
1-14.072-14.880-≤15-PASS



1-N71--15-15-H-8-CP-64QAM-Outer_Full-79@0-Ant
1-14.129-15.000-≤15-PASS



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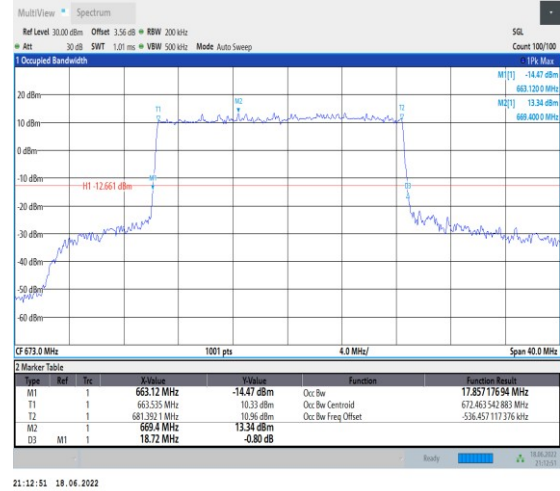
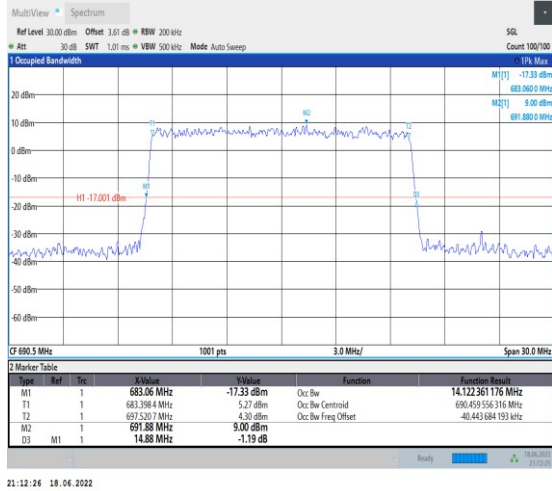
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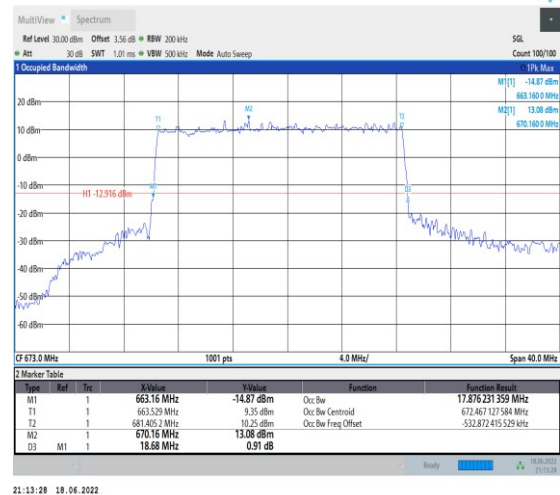
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1-N71--15-15-H-9-CP-256QAM-Outer_Full-79@0-An
t1-14.122-14.880-≤15-PASS

1-N71--15-20-L-1-DFT-QPSK-Outer_Full-100@0-Ant
1-17.857-18.720-≤20-PASS



1-N71--15-20-L-2-DFT-PI2BPSK-Outer_Full-100@0-Ant
1-17.862-18.680-≤20-PASS

1-N71--15-20-L-3-DFT-16QAM-Outer_Full-100@0-Ant
1-17.876-18.680-≤20-PASS



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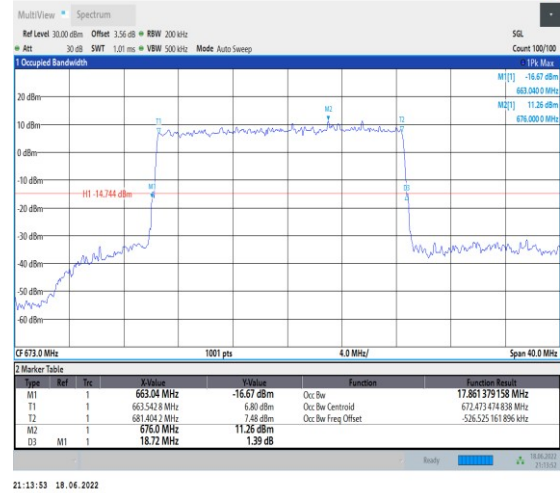
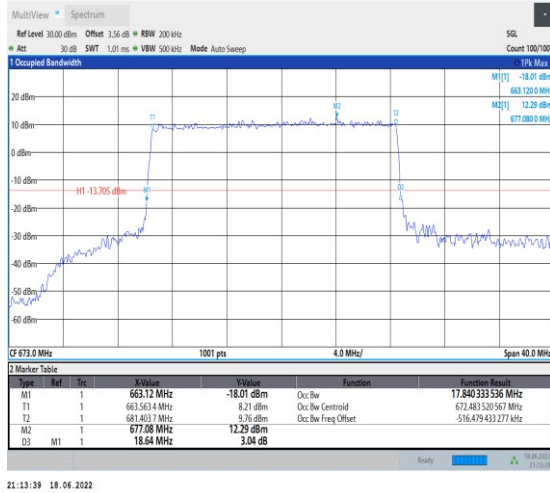
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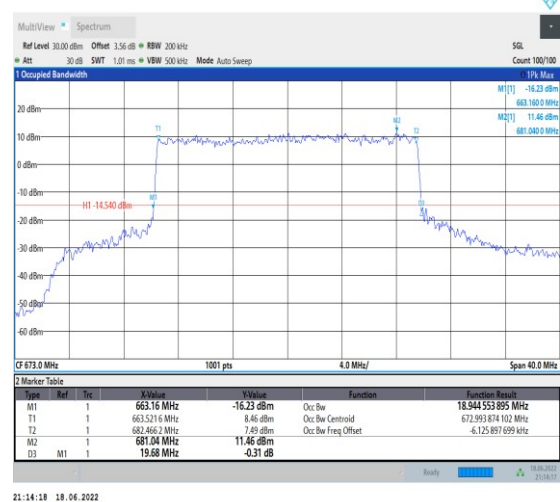
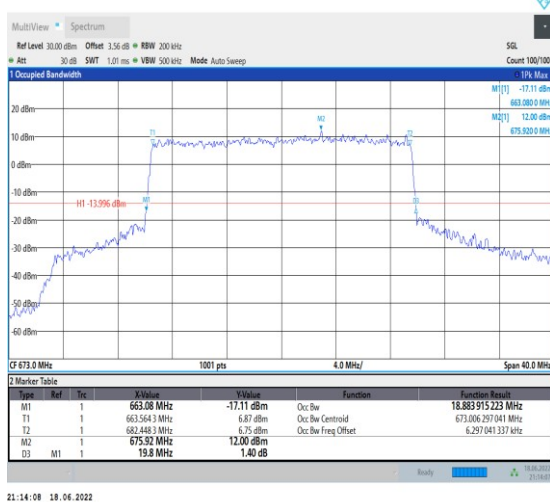
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1-N71--15-20-L-4-DFT-64QAM-Outer_Full-100@0-A
nt1-17.84-18.640-≤20-PASS

1-N71--15-20-L-5-DFT-256QAM-Outer_Full-100@0-A
Ant1-17.861-18.720-≤20-PASS



1-N71--15-20-L-6-CP-QPSK-Outer_Full-106@0-Ant1
-18.884-19.800-≤20-PASS

1-N71--15-20-L-7-CP-16QAM-Outer_Full-106@0-Ant1
t1-18.945-19.680-≤20-PASS



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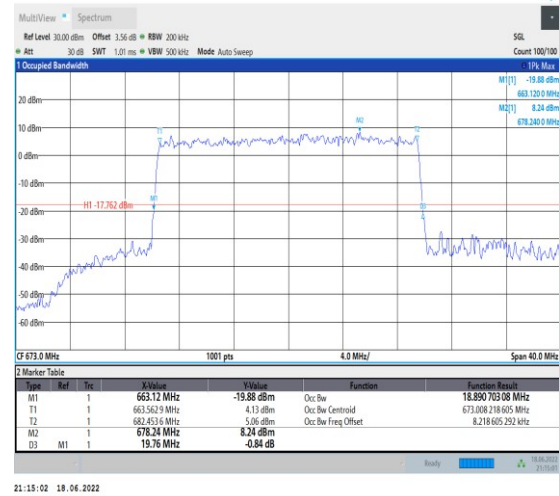
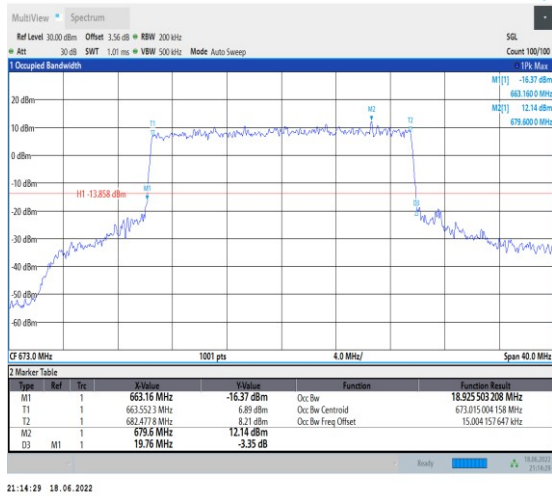
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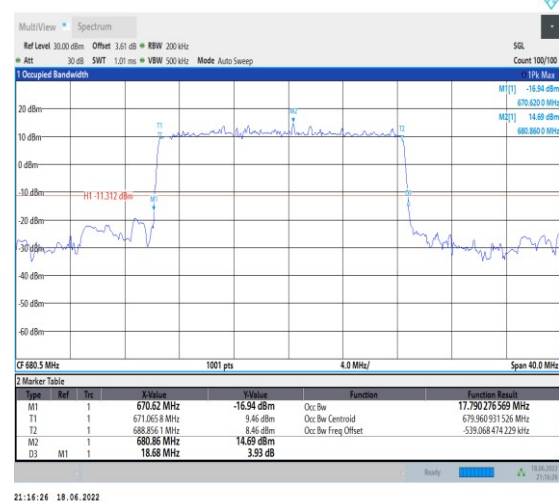
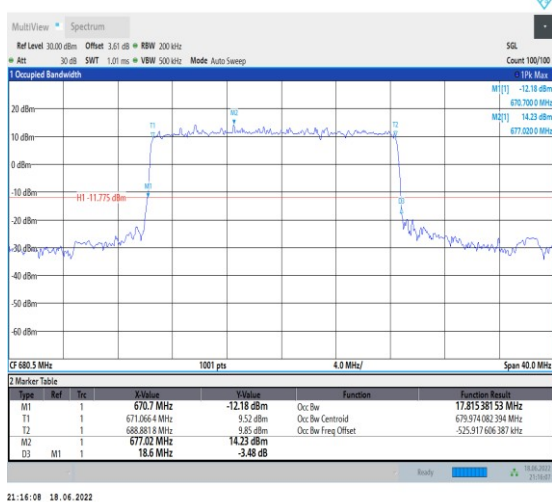
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1-N71--15-20-L-8-CP-64QAM-Outer_Full-106@0-Ant
1-18.926-19.760-<20-PASS

1-N71--15-20-L-9-CP-256QAM-Outer_Full-106@0-A
nt1-18.891-19.760-<20-PASS



1-N71--15-20-M-1-DFT-QPSK-Outer_Full-100@0-Ant
t1-17.815-18.600-<20-PASS

1-N71--15-20-M-2-DFT-PI2BPSK-Outer_Full-100@0
-Ant1-17.79-18.680-<20-PASS



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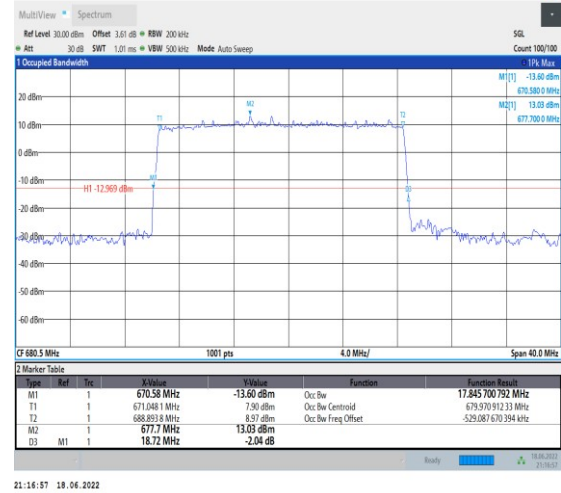
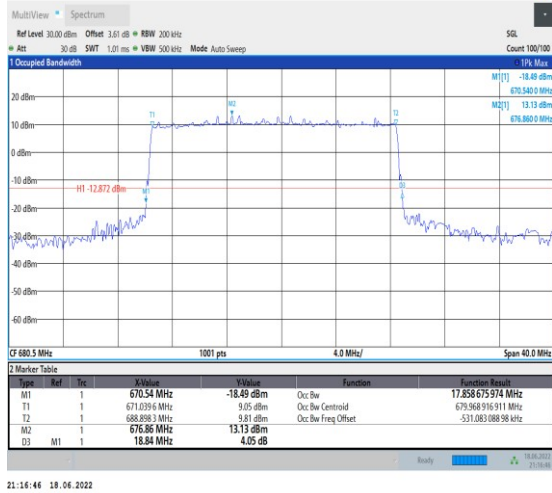
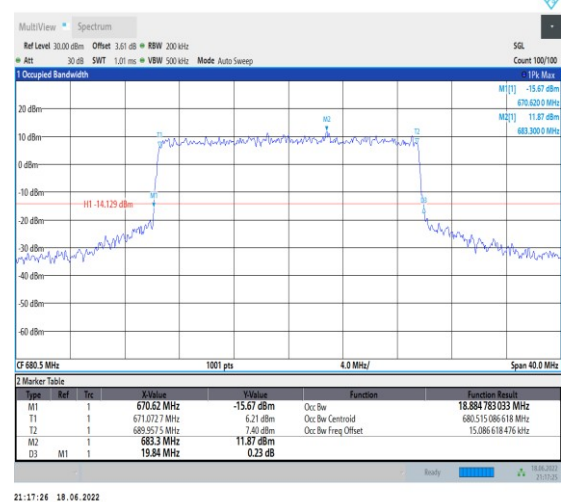
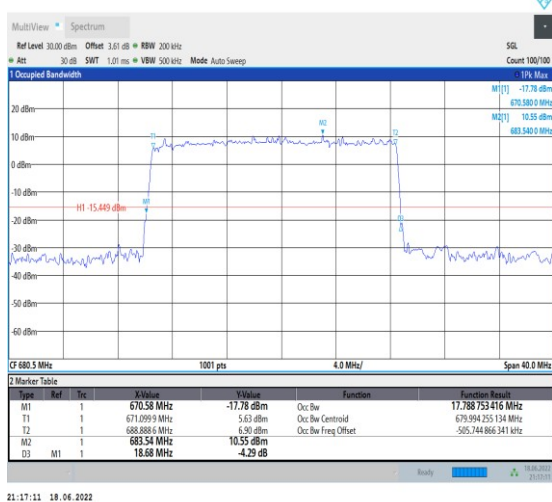
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1-N71--15-20-M-3-DFT-16QAM-Outer_Full-100@0-A
nt1-17.859-18.840-≤20-PASS1-N71--15-20-M-4-DFT-64QAM-Outer_Full-100@0-A
Ant1-17.846-18.720-≤20-PASS1-N71--15-20-M-5-DFT-256QAM-Outer_Full-100@0-A
Ant1-17.789-18.680-≤20-PASS1-N71--15-20-M-6-CP-QPSK-Outer_Full-106@0-Ant
1-18.885-19.840-≤20-PASS

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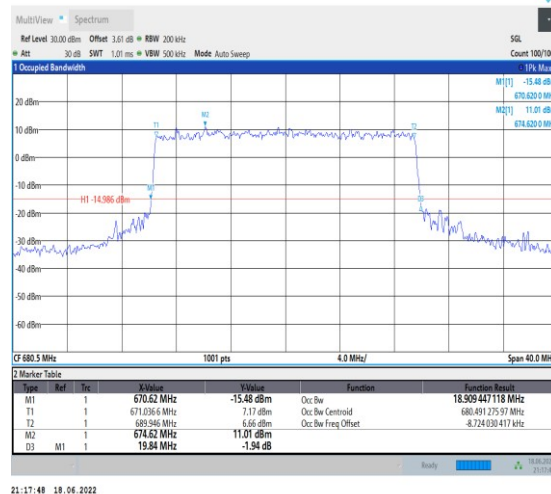
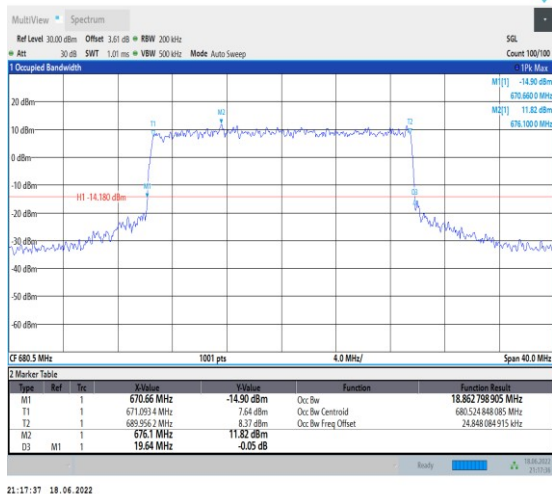
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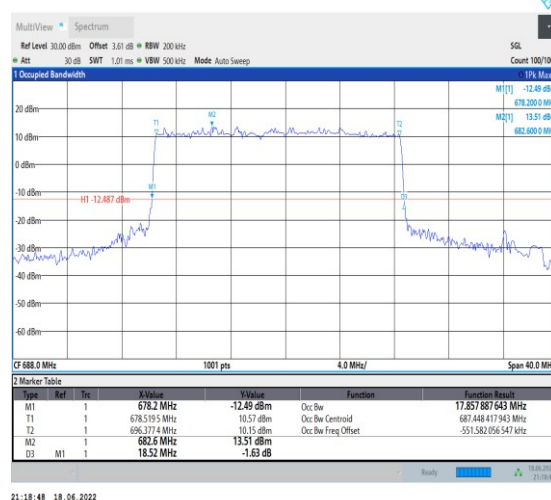
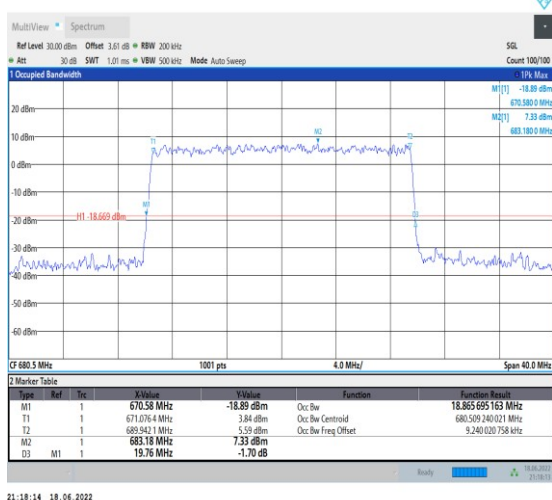
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1-N71--15-20-M-7-CP-16QAM-Outer_Full-106@0-An
t1-18.863-19.640-≤20-PASS

1-N71--15-20-M-8-CP-64QAM-Outer_Full-106@0-A
nt1-18.909-19.840-≤20-PASS



1-N71--15-20-M-9-CP-256QAM-Outer_Full-106@0-A
nt1-18.866-19.760-≤20-PASS

1-N71--15-20-H-1-DFT-QPSK-Outer_Full-100@0-An
t1-17.858-18.520-≤20-PASS



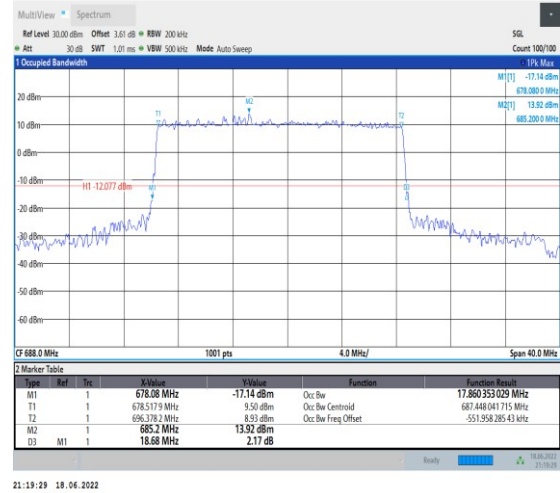
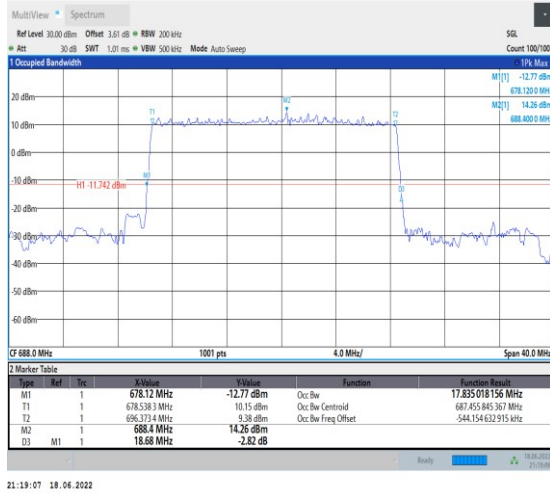
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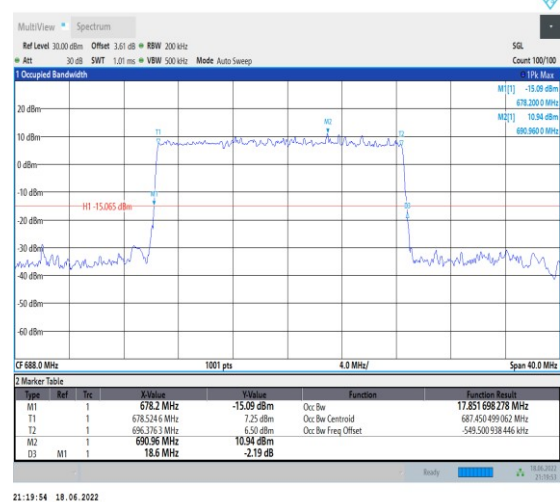
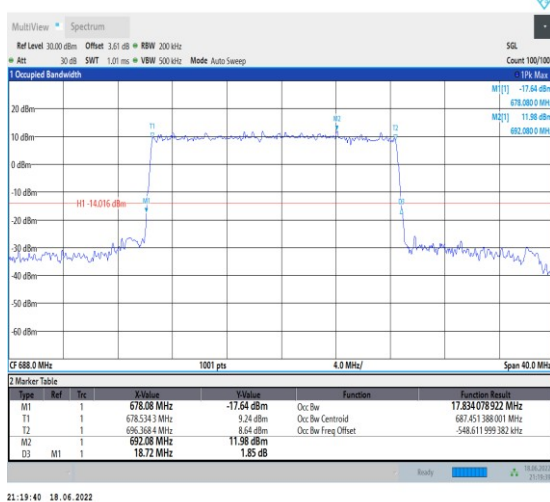
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Ant1-17.835-18.680-≤20-PASS

1-N71--15-20-H-3-DFT-16QAM-Outer_Full-100@0-A
nt1-17.86-18.680-≤20-PASS



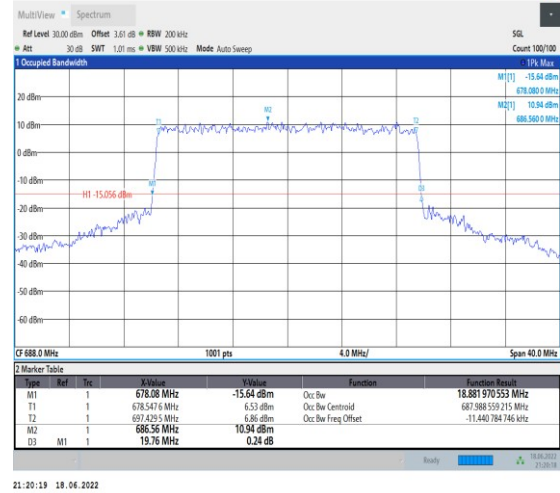
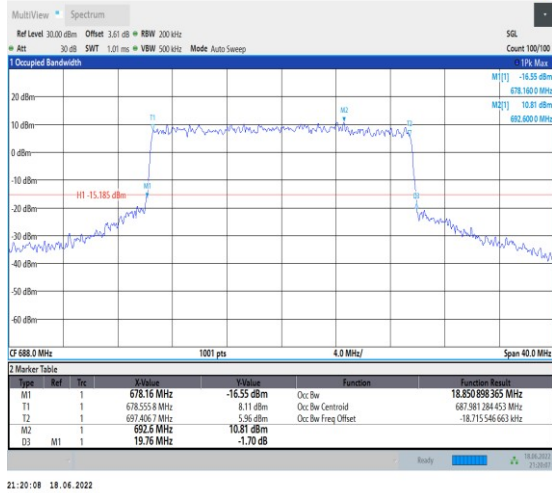
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nt1-17.834-18.720-≤20-PASS

1-N71--15-20-H-5-DFT-256QAM-Outer_Full-100@0-A
Ant1-17.852-18.600-≤20-PASS

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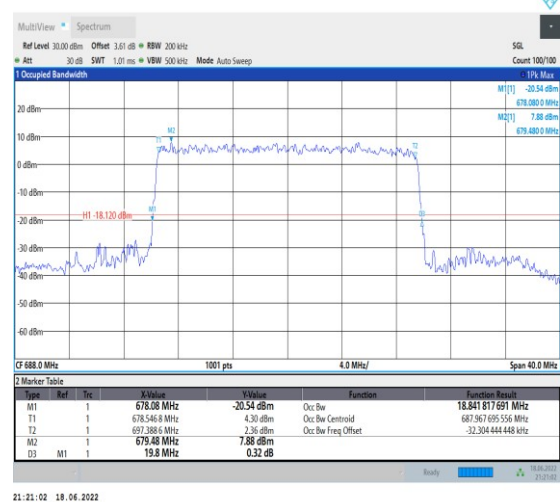
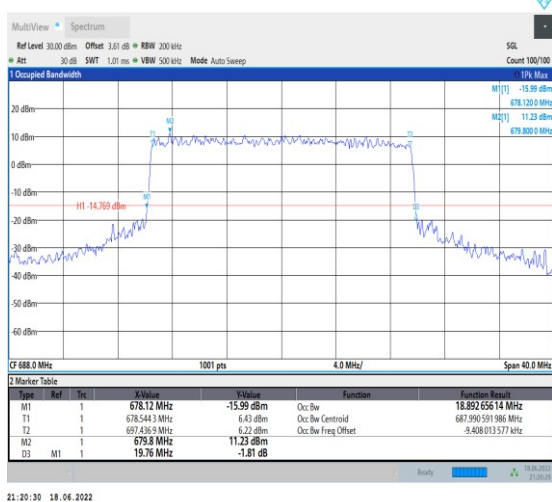
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1-N71--15-20-H-6-CP-QPSK-Outer_Full-106@0-Ant
t1-18.851-19.760-≤20-PASS

1-N71--15-20-H-7-CP-16QAM-Outer_Full-106@0-An
t1-18.882-19.760-≤20-PASS



1-N71--15-20-H-8-CP-64QAM-Outer_Full-106@0-Ant
t1-18.893-19.760-≤20-PASS

1-N71--15-20-H-9-CP-256QAM-Outer_Full-106@0-Ant
t1-18.842-19.800-≤20-PASS



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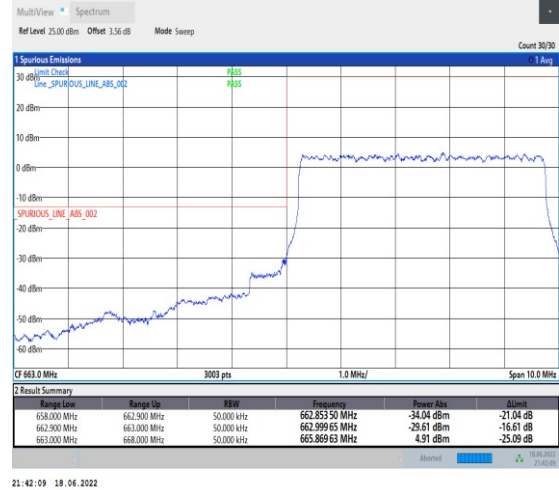
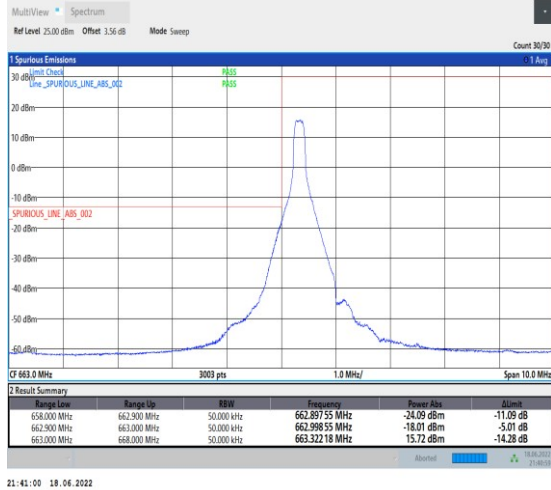
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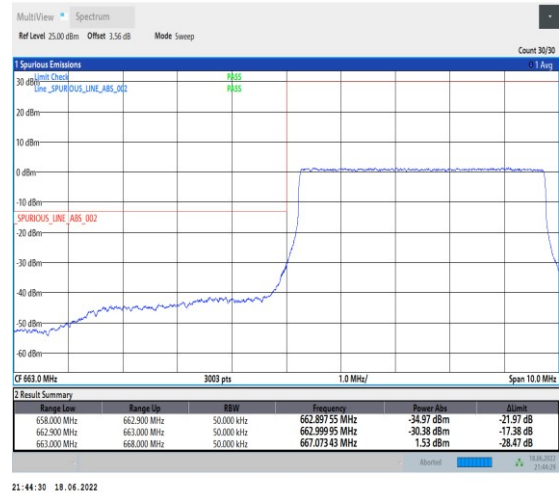
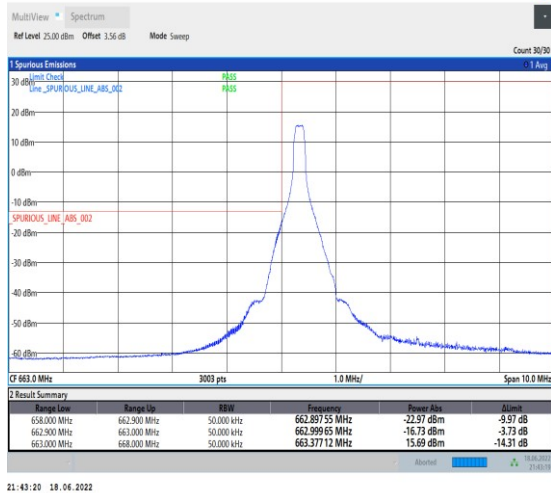
Band Edge for SA

Test Graphs



1-N71--15-5-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N71--15-5-L-3-DFT-PI2BPSK-Outer_Full-25@0-Ant1-PASS-see graph



1-N71--15-5-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph

1-N71--15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-PASS-see graph



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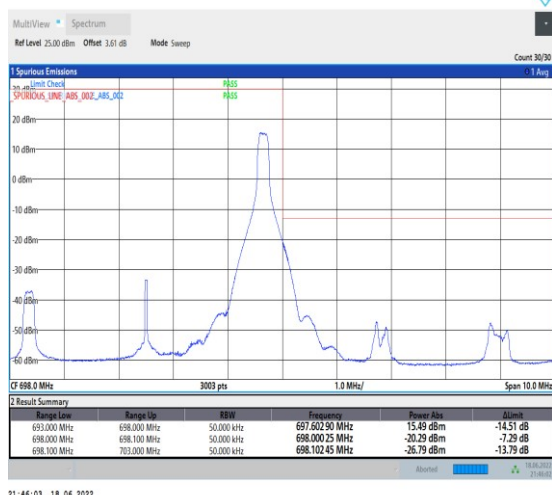
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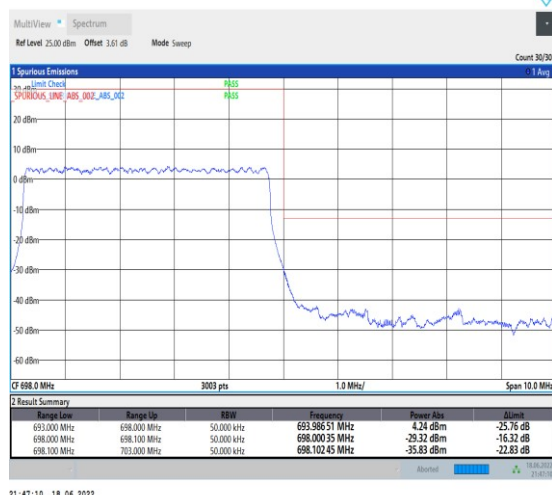
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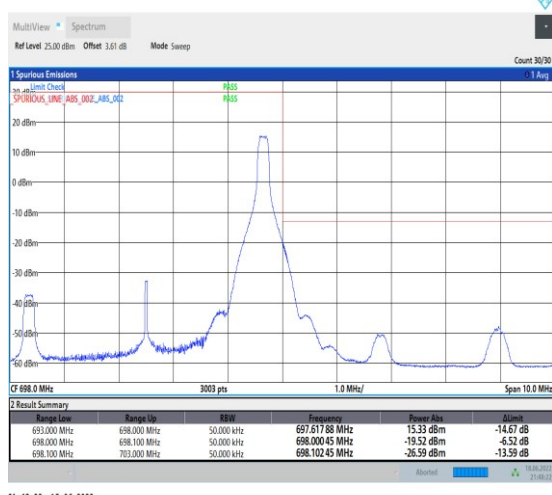
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4-Ant1-PASS-see graph



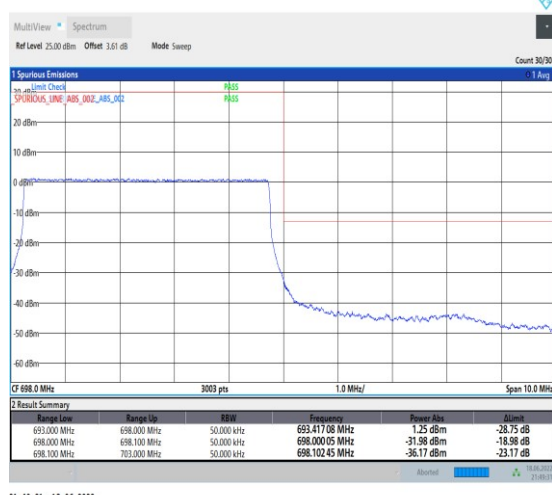
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21:49:31 18.06.2022

1-N71--15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant
1-PASS-see graph



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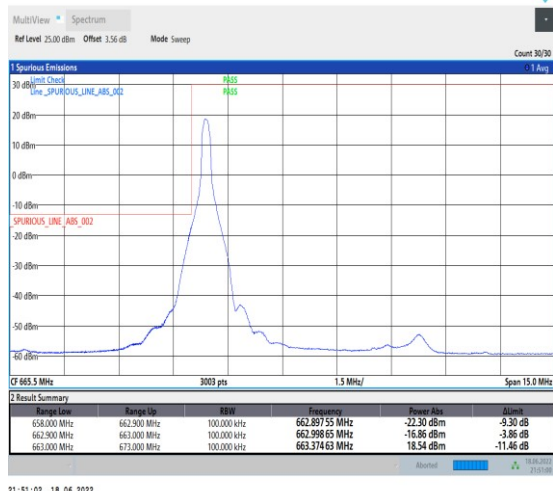
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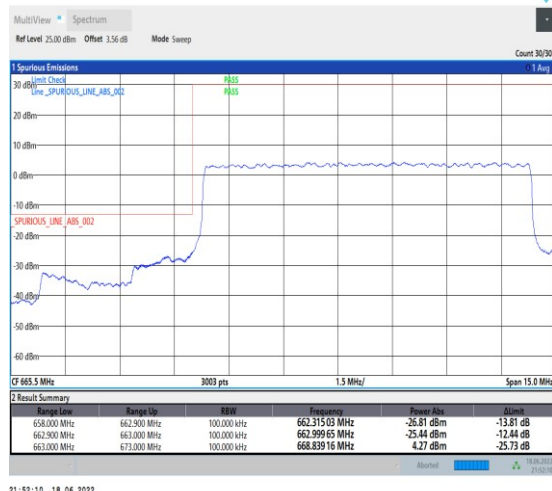
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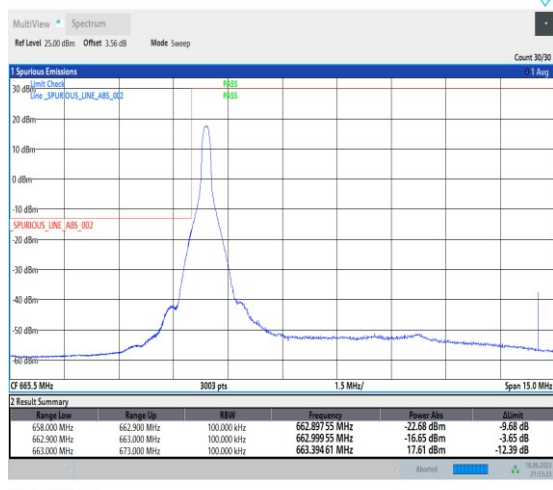
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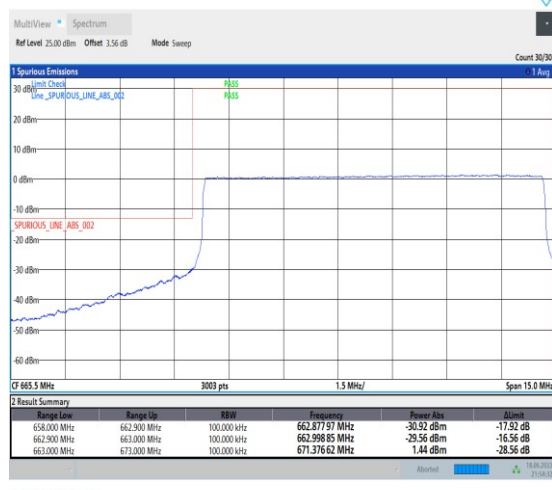
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1-N71--15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph



21:14:33 18.06.2022

1-N71--15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-PASS-see graph



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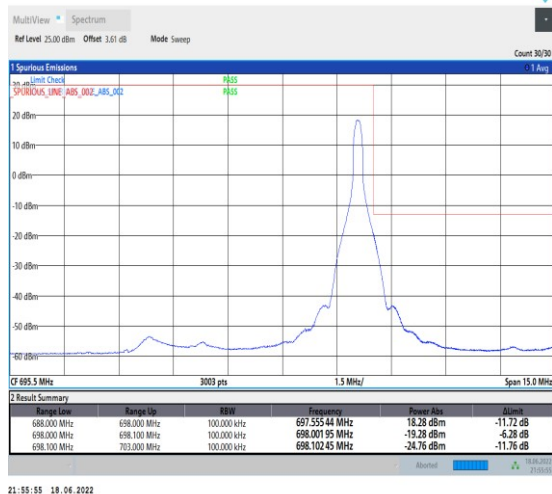
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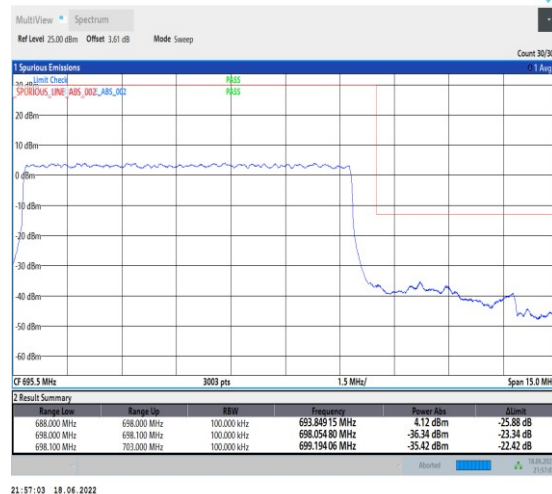
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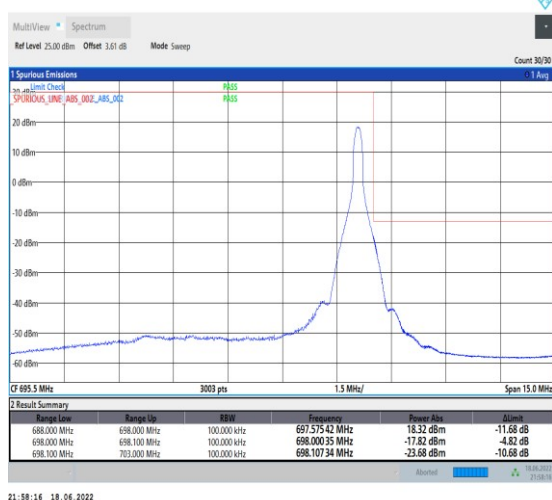
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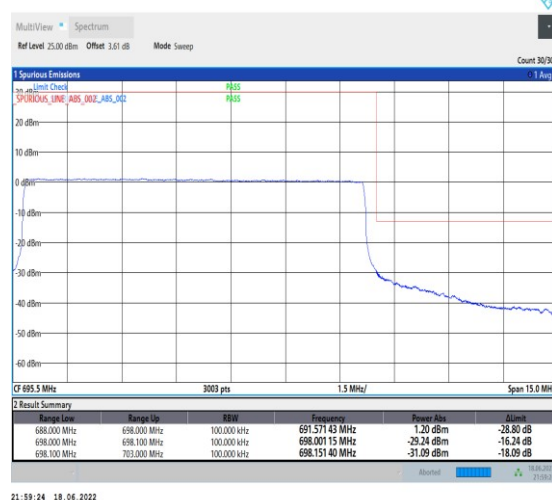
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51-Ant1-PASS-see graph



1-N71--15-10-H-3-DFT-PI2BPSK-Outer_Full-50@
0-Ant1-PASS-see graph



1-N71--15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-
Ant1-PASS-see graph



1-N71--15-10-H-6-CP-QPSK-Outer_Full-52@0-An
t1-PASS-see graph



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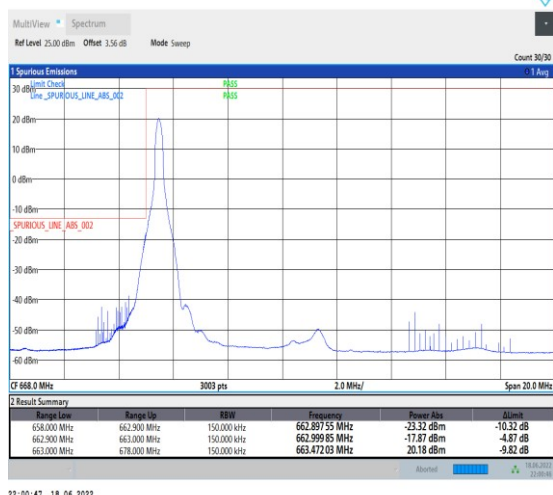
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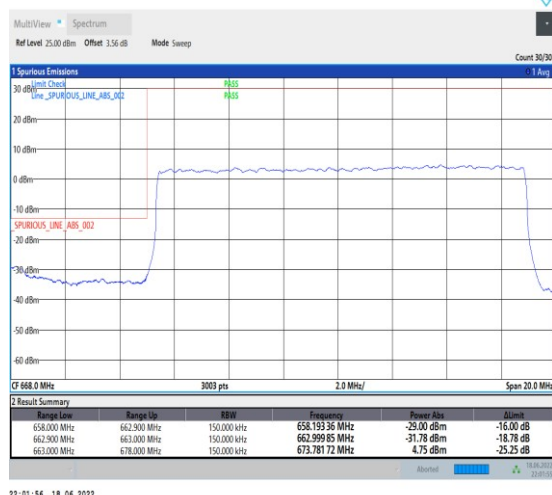
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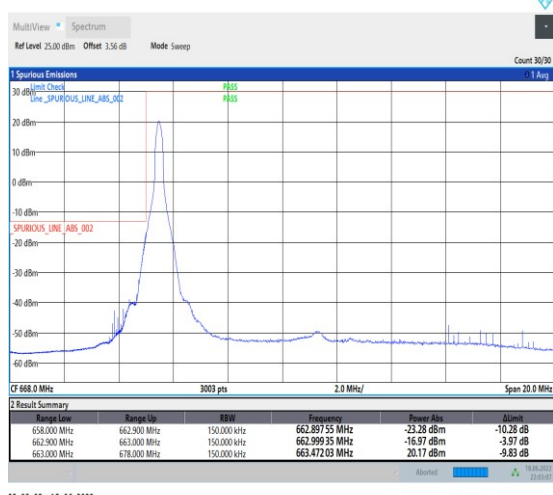
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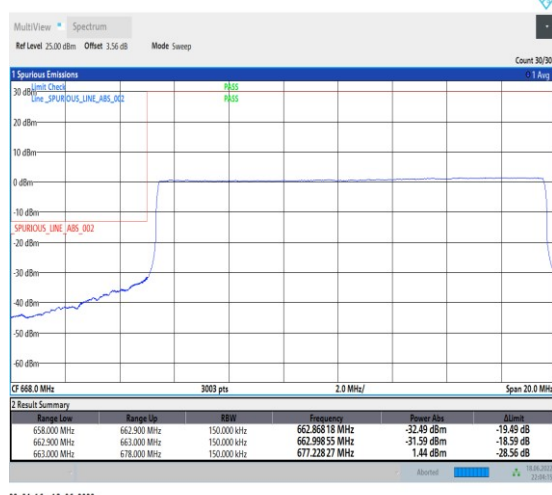
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22:04:16 18.06.2022

1-N71--15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant1-PASS-see graph



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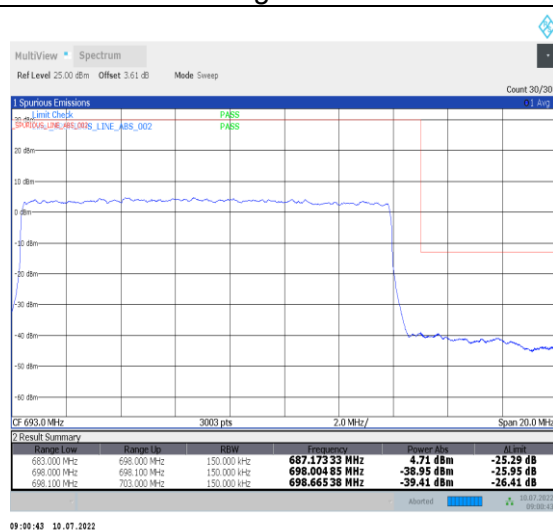
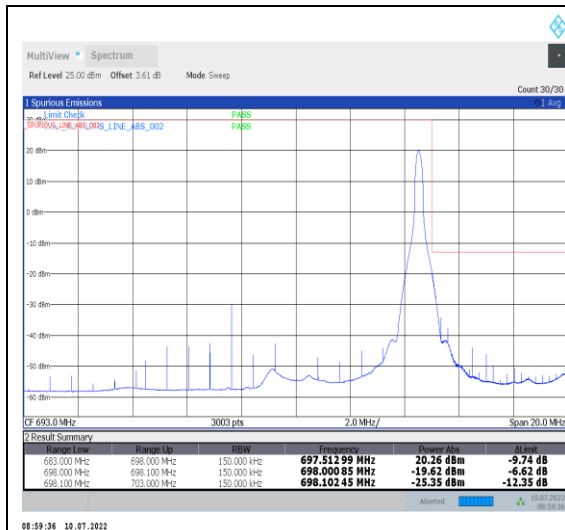
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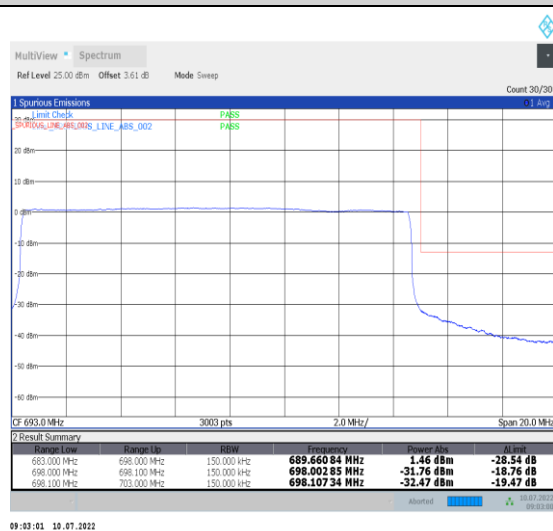
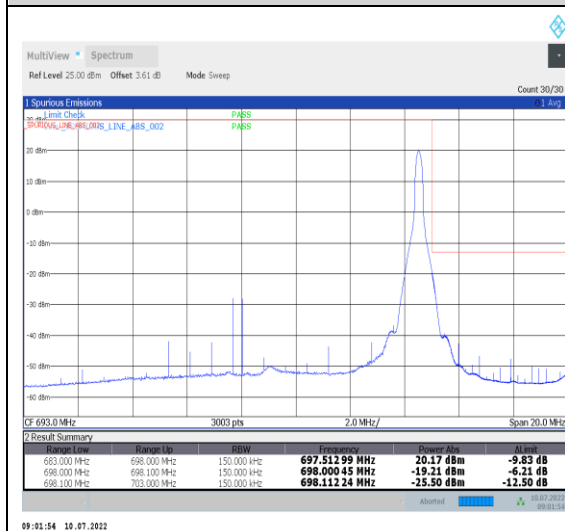
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1-N71-PC3-15-15-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@78-Ant1-PASS-see graph

1-N71-PC3-15-15-H-3-DFT-PI2BPSK-Outer_Full-75@0-Ant1-PASS-see graph



1-N71-PC3-15-15-H-5-CP-QPSK-Edge_1RB_Right-1@78-Ant1-PASS-see graph

1-N71-PC3-15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant1-PASS-see graph



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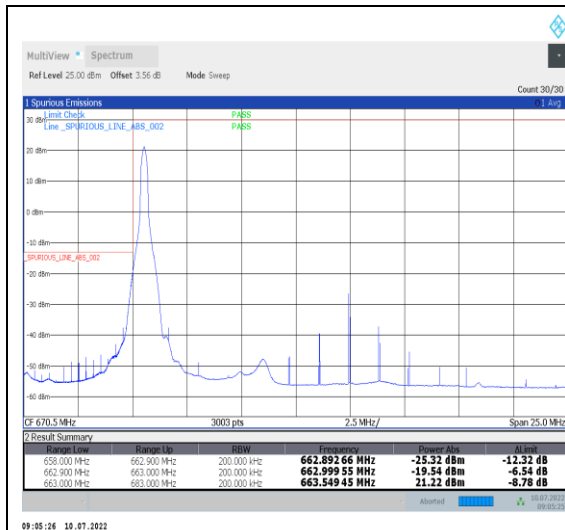
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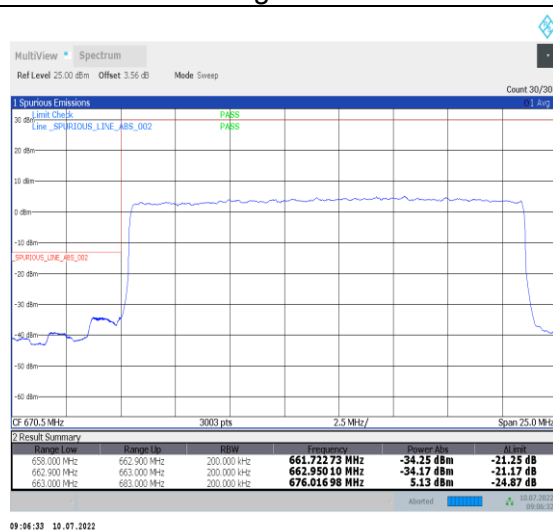
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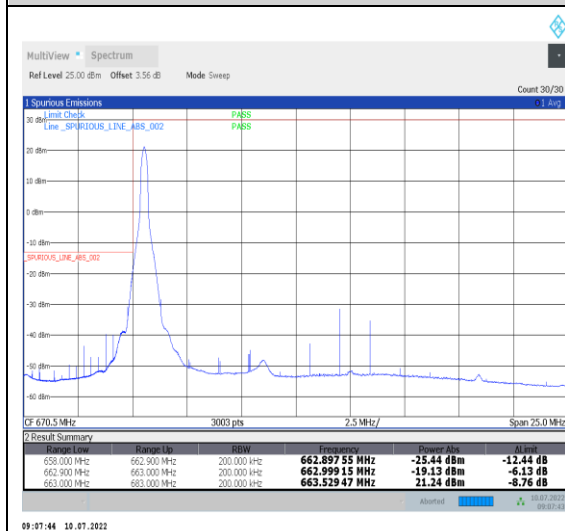
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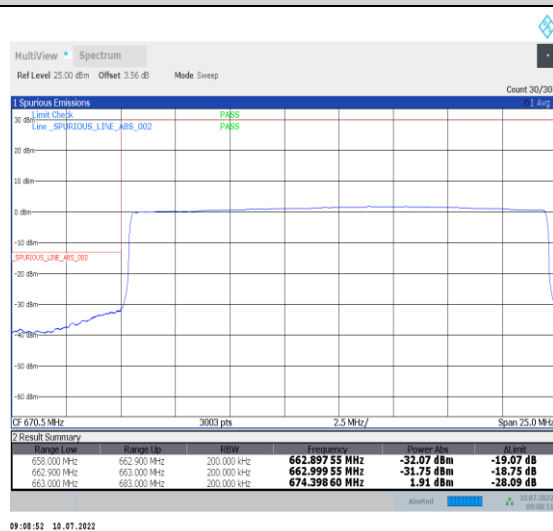
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1-N71-PC3-15-20-L-4-CP-QPSK-Edge_1RB
_Left-1@0-Ant1-PASS-see graph



1-N71-PC3-15-20-L-6-CP-QPSK-Outer_Full-
106@0-Ant1-PASS-see graph



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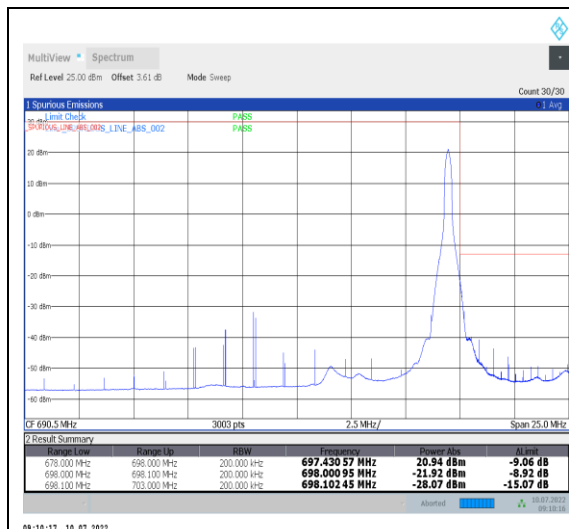
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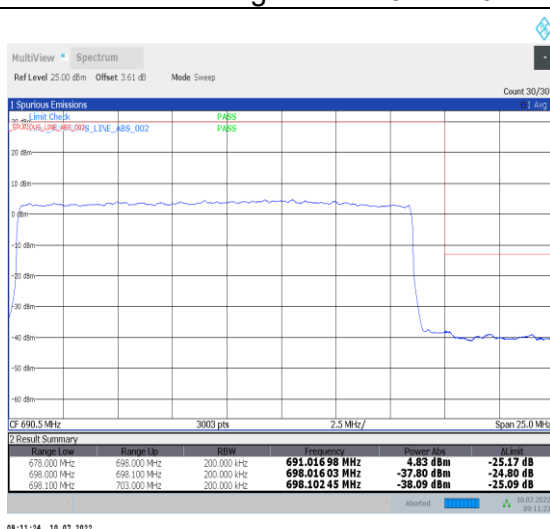
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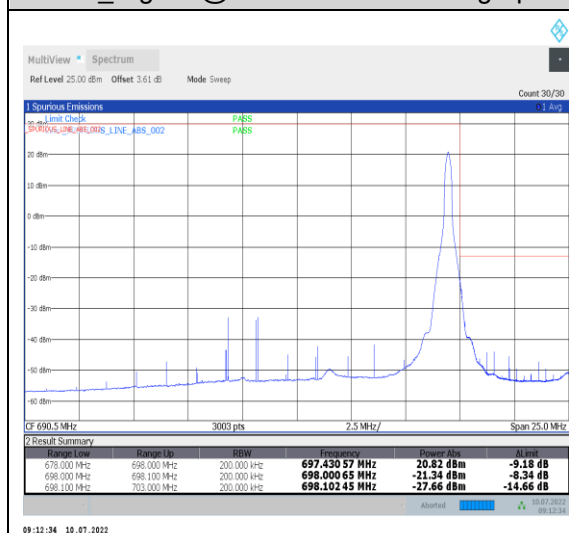
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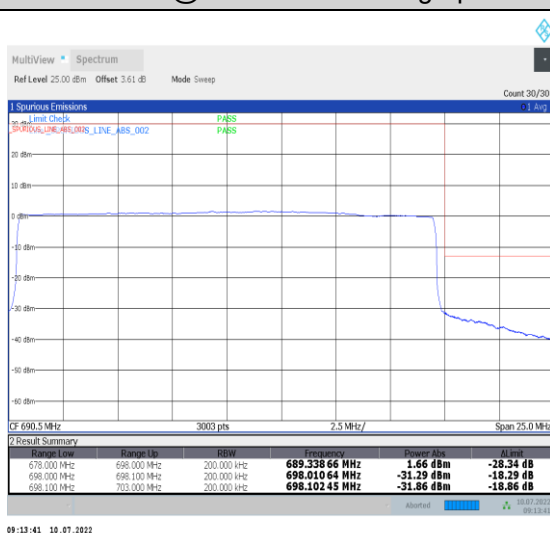
09:10:17 10.07.2022
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09:11:24 10.07.2022
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09:12:34 10.07.2022
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09:13:41 10.07.2022
1-N71-PC3-15-20-H-6-CP-QPSK-Outer_Full-106@0-Ant1-PASS-see graph



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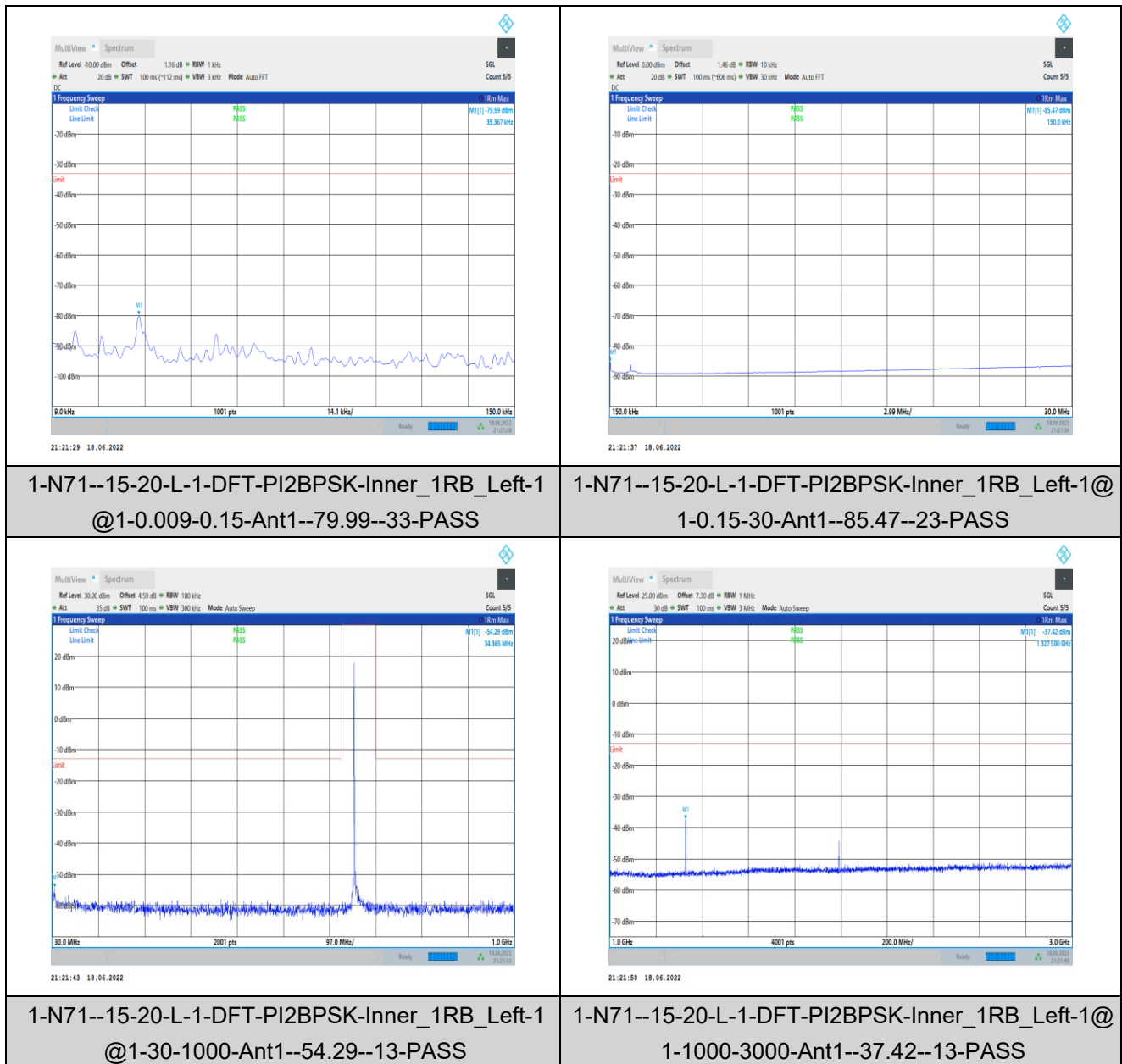
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Conducted Spurious Emission for SA

Test Graphs



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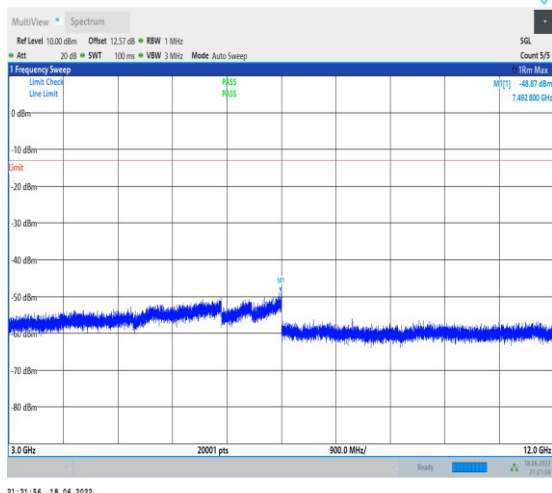
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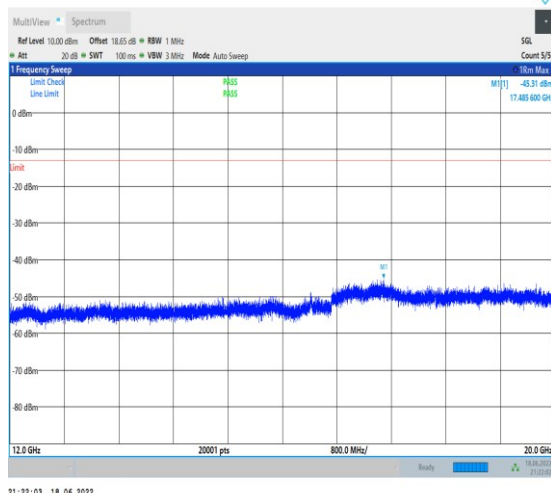
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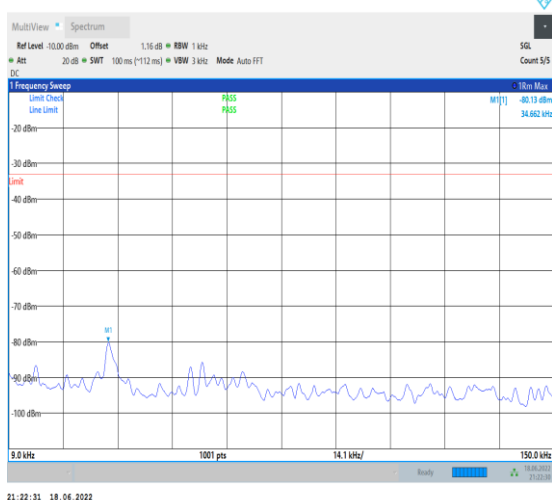
Page: 53 of 61



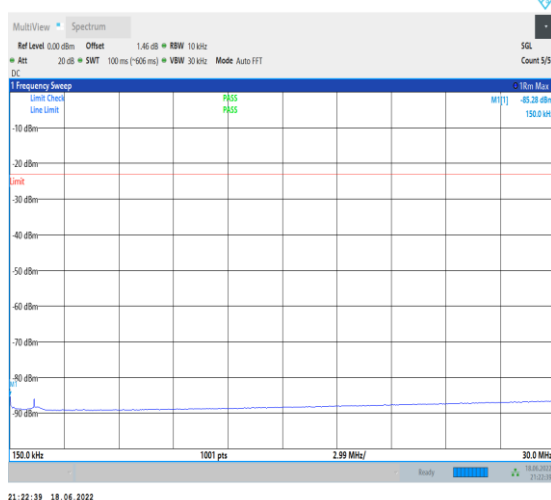
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1-N71--15-20-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@
1-12000-20000-Ant1--45.31--13-PASS



1-N71--15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-0.009-0.15-Ant1--80.13--33-PASS



1-N71--15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-0.15-30-Ant1--85.28--23-PASS



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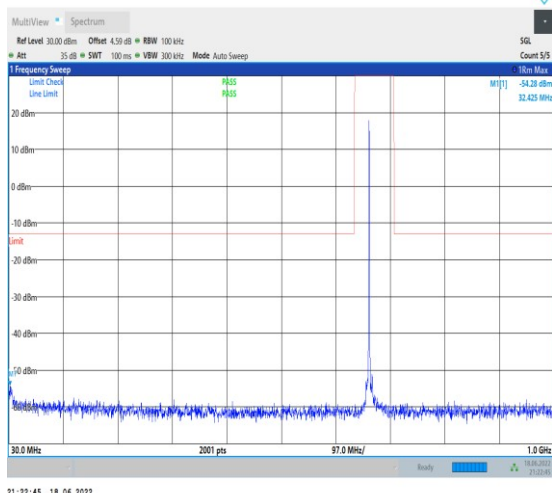
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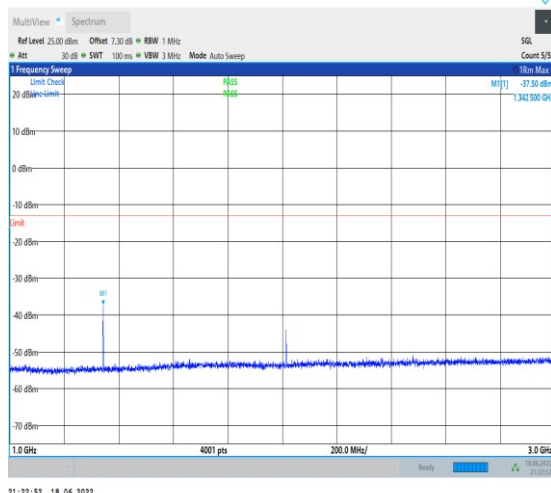
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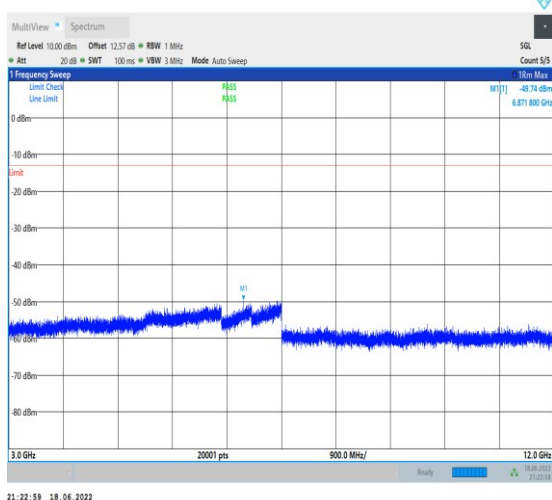
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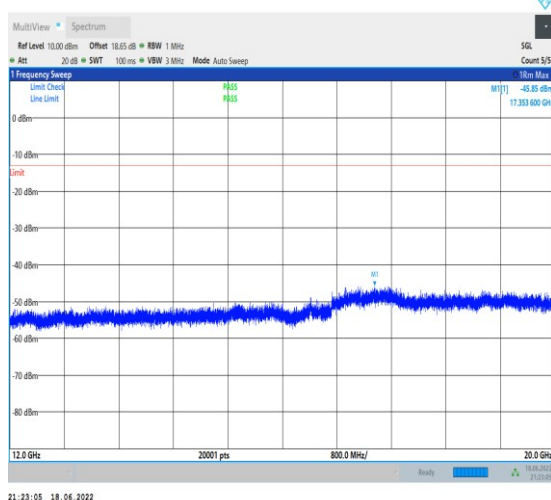
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@1-30-1000-Ant1--54.28--13-PASS



1-N71--15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-1000-3000-Ant1--37.50--13-PASS



1-N71--15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-3000-12000-Ant1--49.74--13-PASS



1-N71--15-20-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-12000-20000-Ant1--45.85--13-PASS



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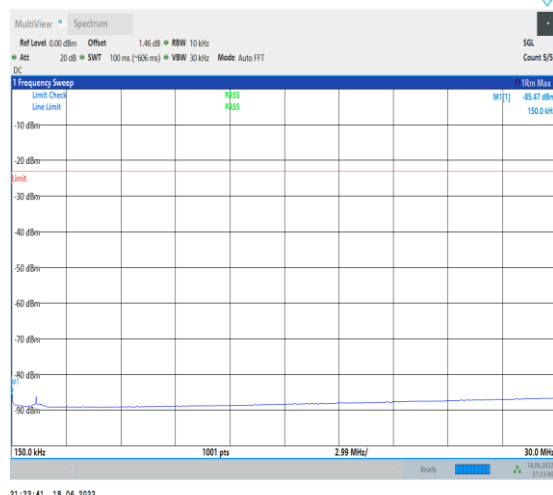
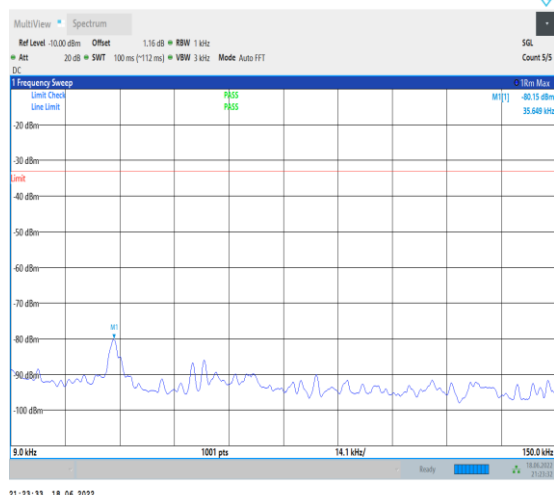
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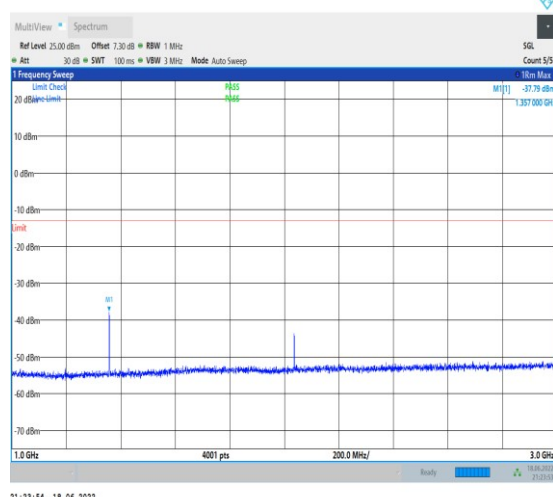
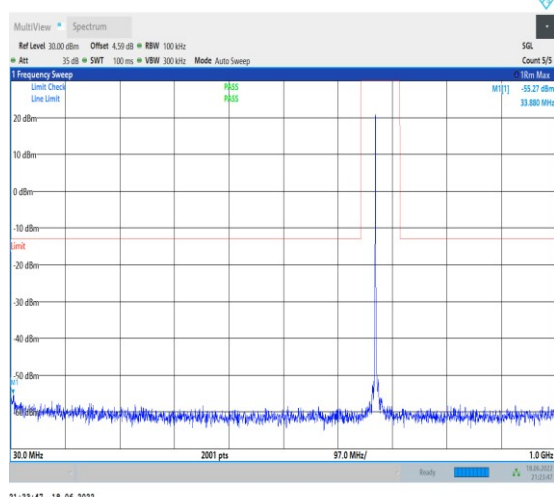
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1-N71--15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-0.009-0.15-Ant1--80.15--33-PASS

1-N71--15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-0.15-30-Ant1--85.47--23-PASS



1-N71--15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-30-1000-Ant1--55.27--13-PASS

1-N71--15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-1000-3000-Ant1--37.79--13-PASS



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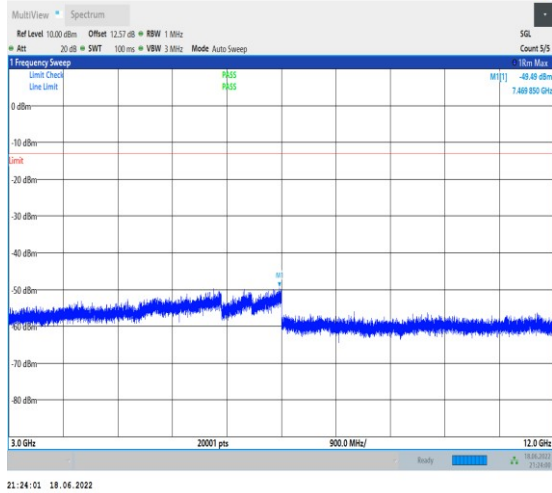
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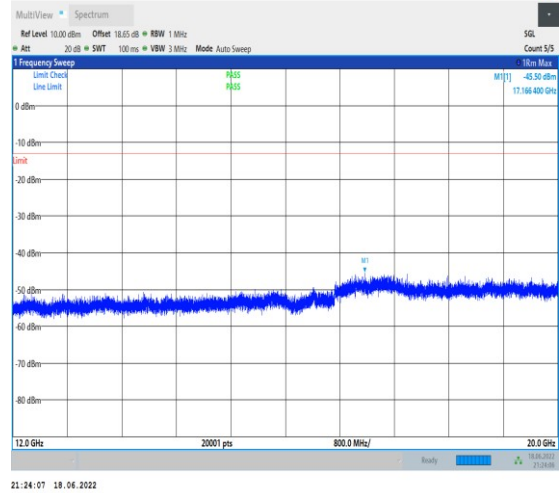
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1-N71--15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-3000-12000-Ant1--49.49--13-PASS



1-N71--15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-12000-20000-Ant1--45.50--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band71_ TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1328.1800	52.75	-117.74	-64.99	-13.00	51.99	136	337	Horizontal
2	1992.2700	50.85	-116.58	-65.73	-13.00	52.73	154	125	Horizontal
3	2656.3600	50.79	-114.05	-63.26	-13.00	50.26	185	352	Horizontal
4	3320.4500	50.88	-112.38	-61.50	-13.00	48.50	194	316	Horizontal
5	3984.5400	50.50	-110.70	-60.20	-13.00	47.20	172	42	Horizontal
6	4648.6300	49.10	-109.20	-60.10	-13.00	47.10	255	316	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1328.1800	52.22	-117.74	-65.52	-13.00	52.52	154	125	Vertical
2	1992.2700	50.46	-116.58	-66.12	-13.00	53.12	255	236	Vertical
3	2656.3600	50.18	-114.05	-63.87	-13.00	50.87	164	190	Vertical
4	3320.4500	50.24	-112.38	-62.14	-13.00	49.14	191	9	Vertical
5	3984.5400	51.26	-110.70	-59.44	-13.00	46.44	172	212	Vertical
6	4648.6300	48.35	-109.20	-60.85	-13.00	47.85	230	317	Vertical



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Test Band = SA Band71_ TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1343.1800	54.34	-117.72	-63.38	-13.00	50.38	225	351	Horizontal
2	2014.7700	51.37	-116.44	-65.07	-13.00	52.07	161	337	Horizontal
3	2686.3600	50.56	-114.03	-63.47	-13.00	50.47	233	189	Horizontal
4	3357.9500	50.31	-112.38	-62.07	-13.00	49.07	201	358	Horizontal
5	4029.5400	49.39	-110.53	-61.14	-13.00	48.14	236	147	Horizontal
6	4701.1300	47.76	-109.04	-61.28	-13.00	48.28	299	316	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1343.1800	53.69	-117.72	-64.03	-13.00	51.03	145	108	Vertical
2	2014.7700	51.04	-116.44	-65.40	-13.00	52.40	195	298	Vertical
3	2686.3600	51.66	-114.03	-62.37	-13.00	49.37	215	10	Vertical
4	3357.9500	49.60	-112.38	-62.78	-13.00	49.78	136	193	Vertical
5	4029.5400	49.34	-110.53	-61.19	-13.00	48.19	144	256	Vertical
6	4701.1300	48.19	-109.04	-60.85	-13.00	47.85	196	125	Vertical



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Test Band = SA Band71_ TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1358.1800	52.18	-117.70	-65.52	-13.00	52.52	295	296	Horizontal
2	2037.2700	52.24	-116.32	-64.08	-13.00	51.08	147	360	Horizontal
3	2716.3600	51.61	-113.97	-62.36	-13.00	49.36	185	22	Horizontal
4	3395.4500	51.12	-112.37	-61.25	-13.00	48.25	236	360	Horizontal
5	4074.5400	49.33	-110.32	-60.99	-13.00	47.99	191	275	Horizontal
6	4753.6300	48.25	-108.79	-60.54	-13.00	47.54	255	233	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1358.1800	51.76	-117.70	-65.94	-13.00	52.94	196	318	Vertical
2	2037.2700	50.16	-116.32	-66.16	-13.00	53.16	184	25	Vertical
3	2716.3600	52.40	-113.97	-61.57	-13.00	48.57	175	252	Vertical
4	3395.4500	49.18	-112.37	-63.19	-13.00	50.19	254	154	Vertical
5	4074.5400	49.20	-110.32	-61.12	-13.00	48.12	236	105	Vertical
6	4753.6300	48.49	-108.79	-60.30	-13.00	47.30	132	26	Vertical

Remark:

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

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)



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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
N71	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-3.500000	-0.005143	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-1.600000	-0.002351	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-1.500000	-0.002204	PASS
N71	15	20	CP-QPSK	M	Outer_Full	VH	NT	-3.200000	-0.004702	PASS
N71	15	20	CP-QPSK	M	Outer_Full	VN	NT	-3.600000	-0.005290	PASS
N71	15	20	CP-QPSK	M	Outer_Full	VL	NT	-6.100000	-0.008964	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-1.000000	-0.001470	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-1.400000	-0.002057	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-0.600000	-0.000882	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	-1.200000	-0.001763	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	-0.700000	-0.001029	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	-1.000000	-0.001470	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	-0.700000	-0.001029	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	-1.600000	-0.002351	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-0.800000	-0.001176	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	-30	-1.900000	-0.002792	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	-20	-2.100000	-0.003086	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	-10	-2.700000	-0.003968	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	0	-2.900000	-0.004262	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	10	-0.600000	-0.000882	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	20	-2.200000	-0.003233	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	30	-1.800000	-0.002645	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	40	-1.700000	-0.002498	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	50	-2.200000	-0.003233	PASS

The End



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