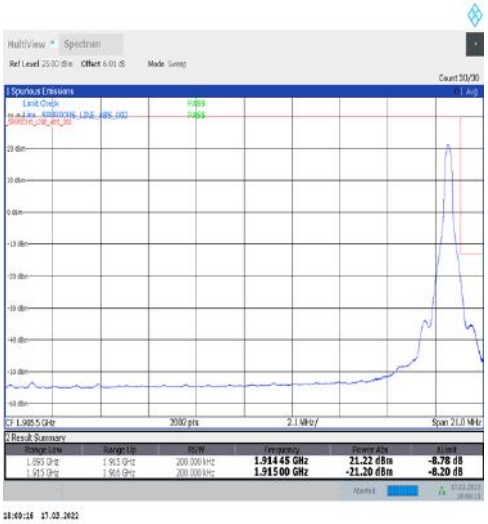

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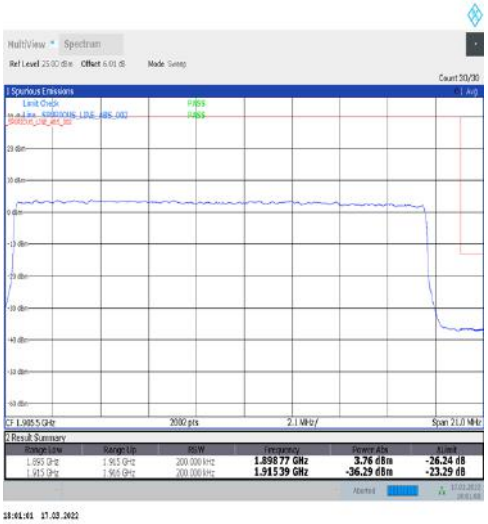

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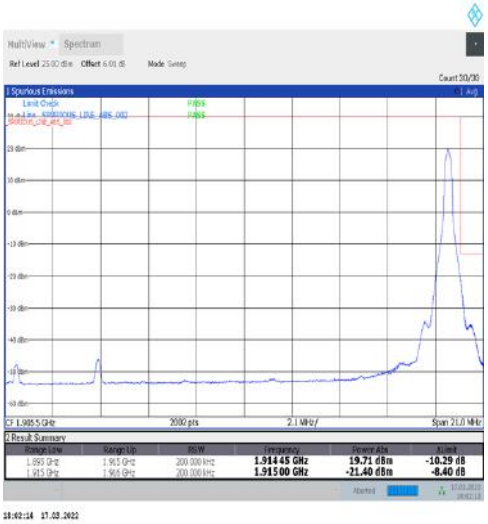

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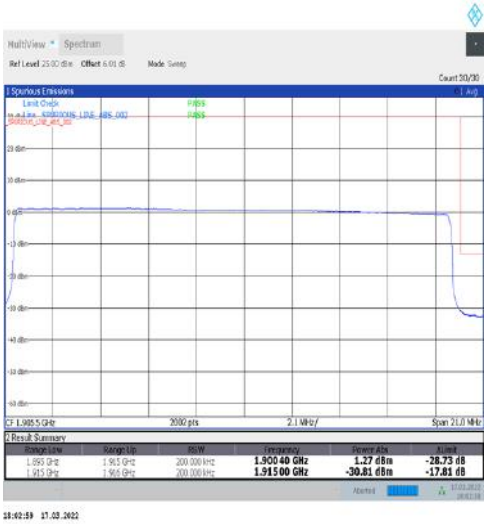

1-N25-15-20-H-6-CP-QPSK-Outer_Full-106@0-Ant1-seegraph-PASS-see graph

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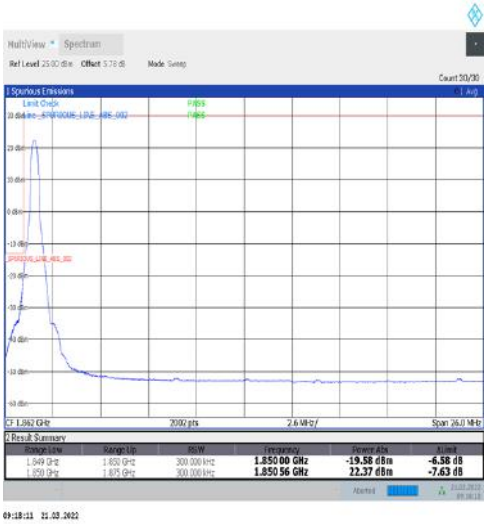

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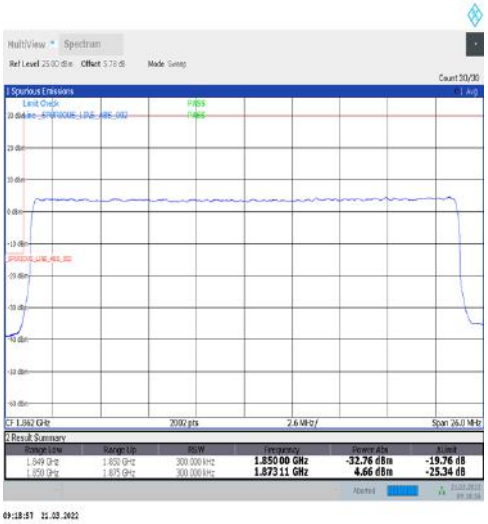

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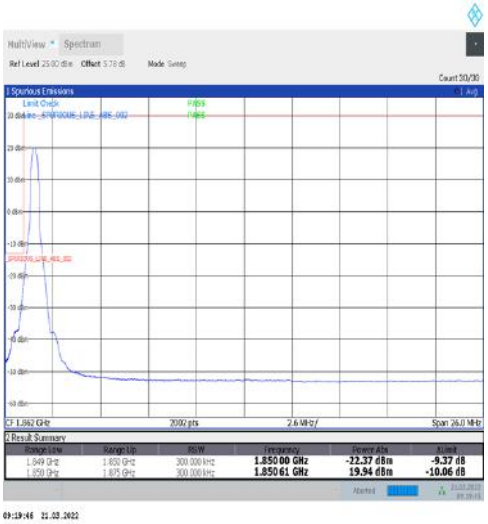

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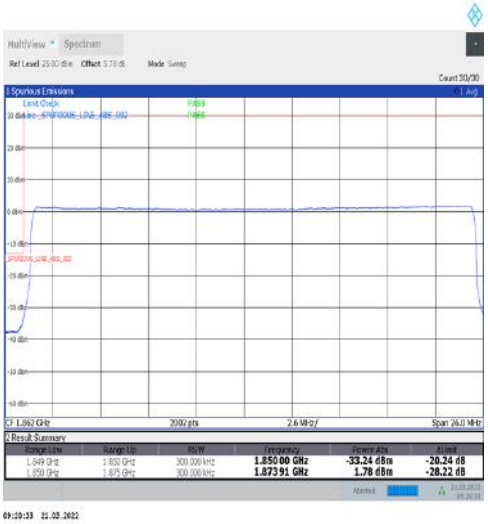

1-N25-15-25-L-6-CP-QPSK-Outer_Full-133@0-Ant1-seegraph-PASS-see graph

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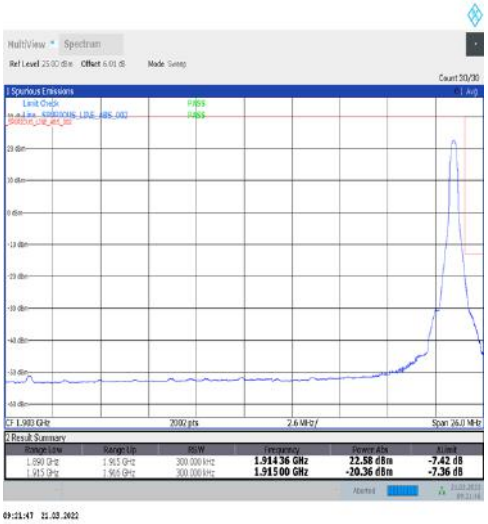

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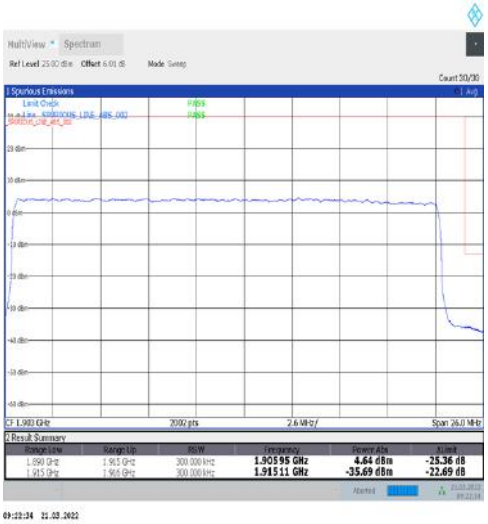

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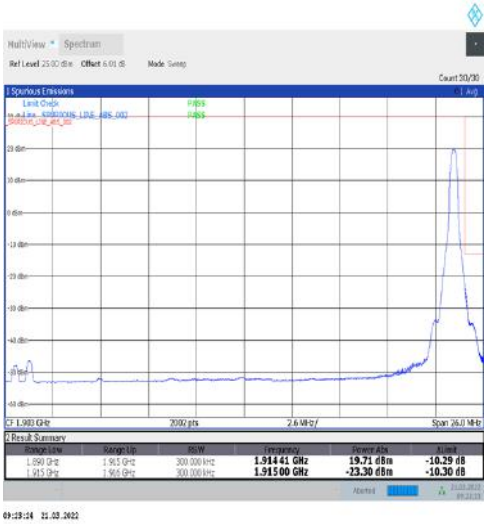

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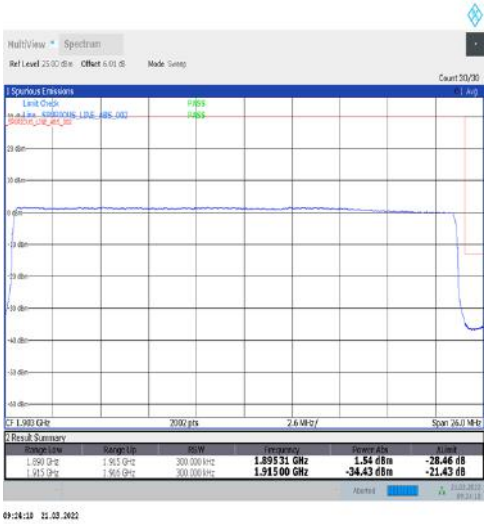

1-N25-15-25-H-6-CP-QPSK-Outer_Full-133@0-Ant1-seegraph-PASS-see graph

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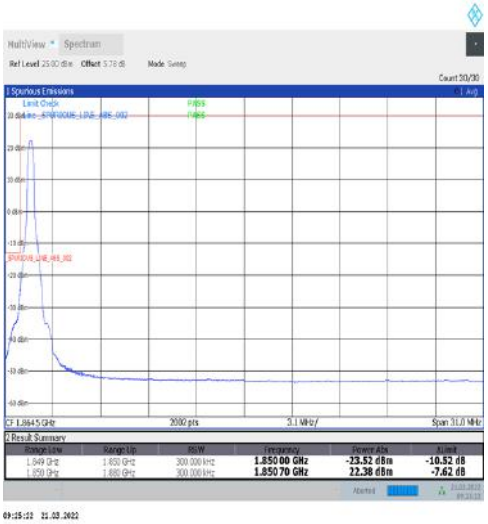

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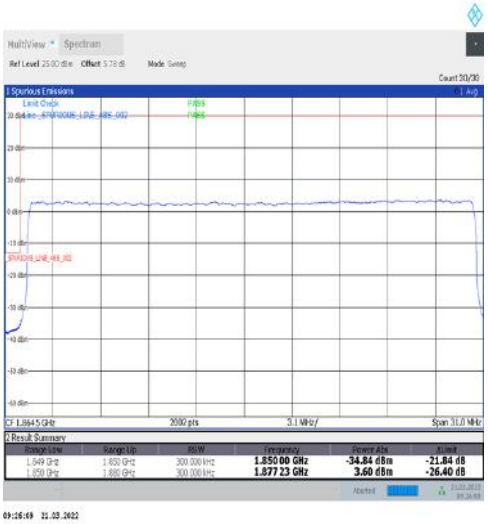

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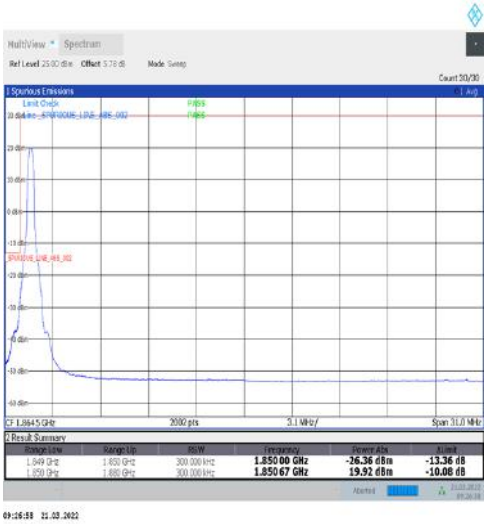

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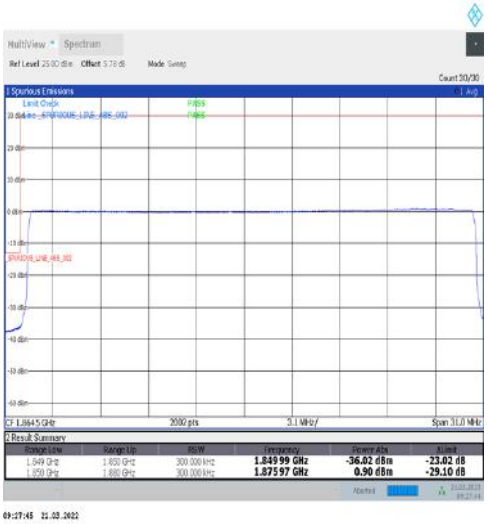

1-N25-15-30-L-6-CP-QPSK-Outer_Full-160@0-Ant1-seegraph-PASS-see graph

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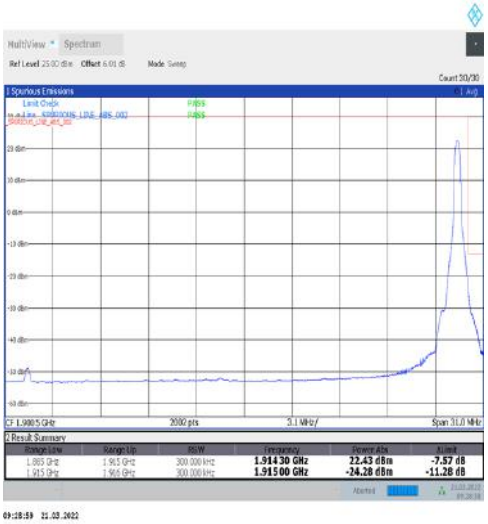

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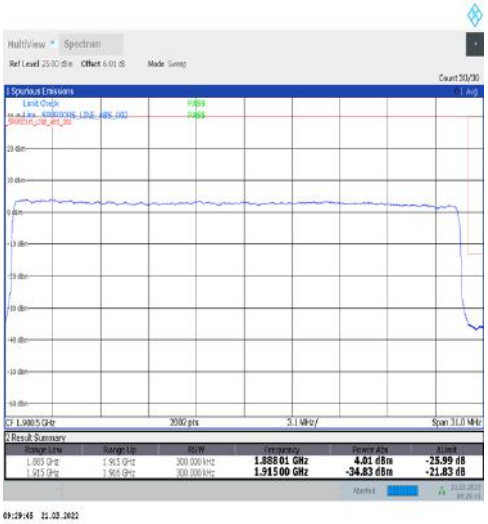

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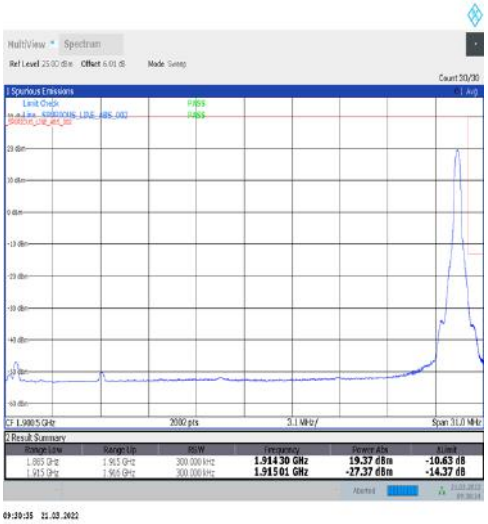

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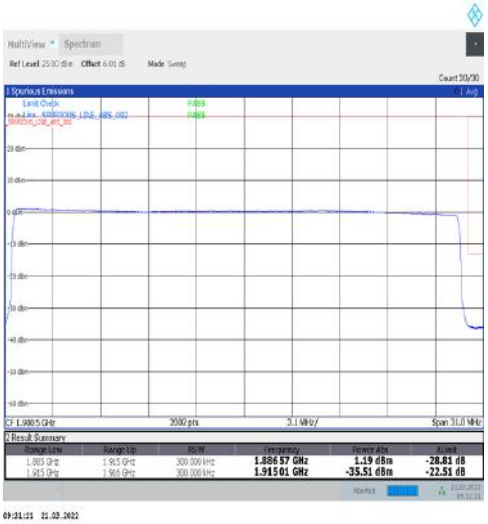

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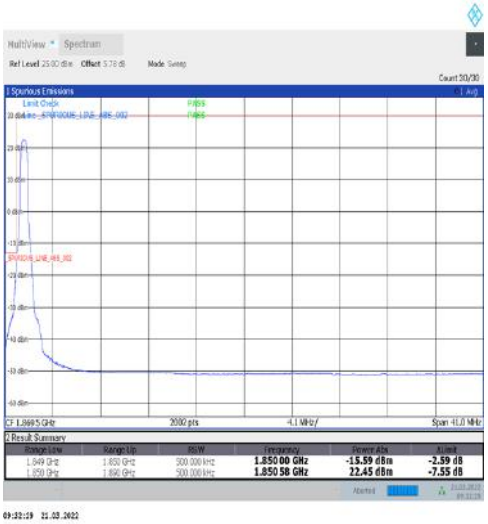

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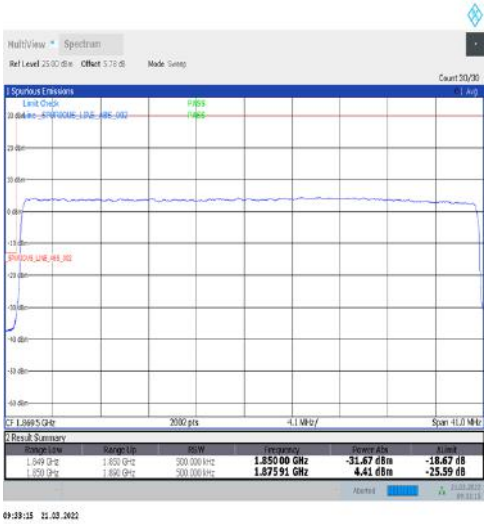

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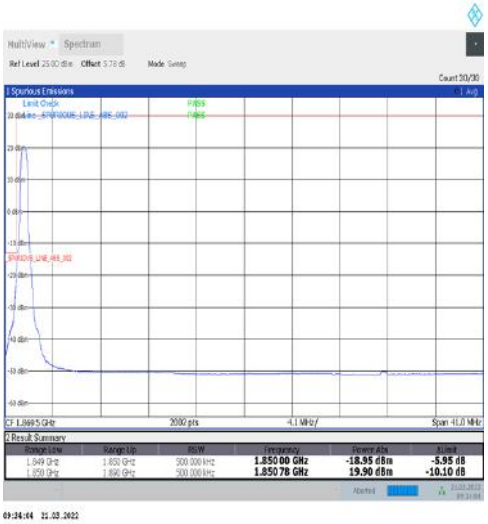

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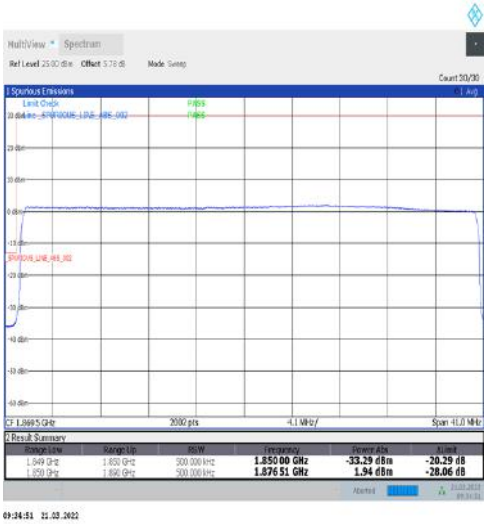

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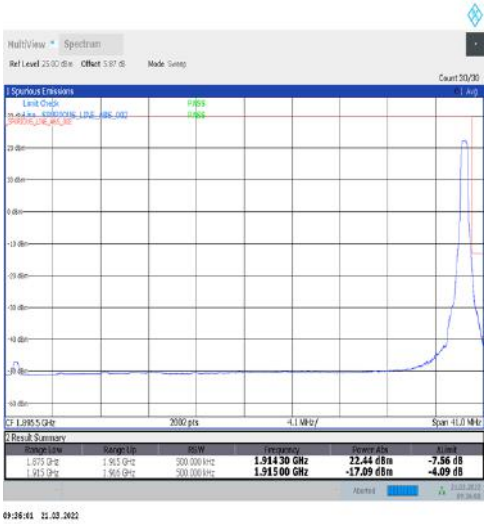

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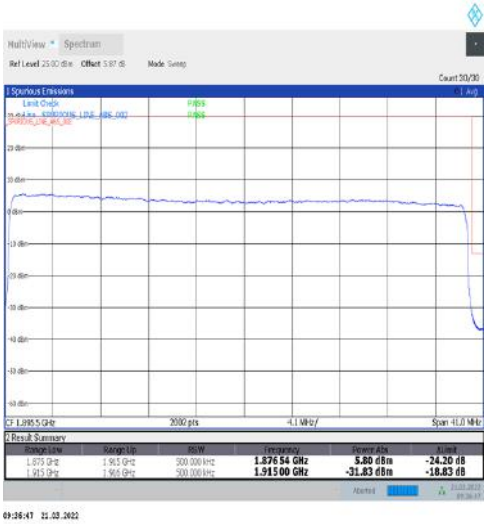

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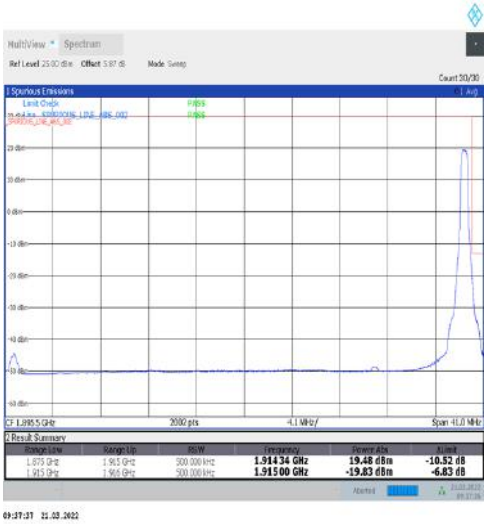

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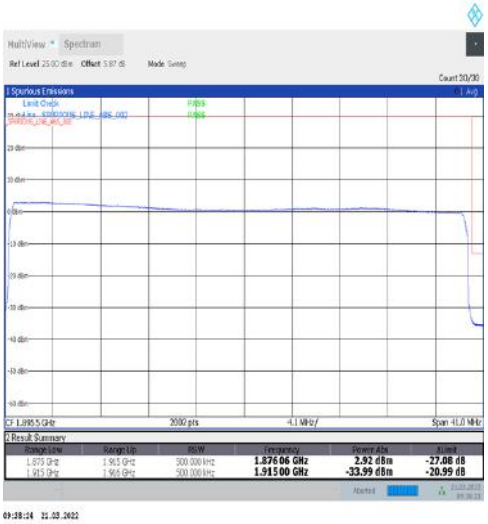

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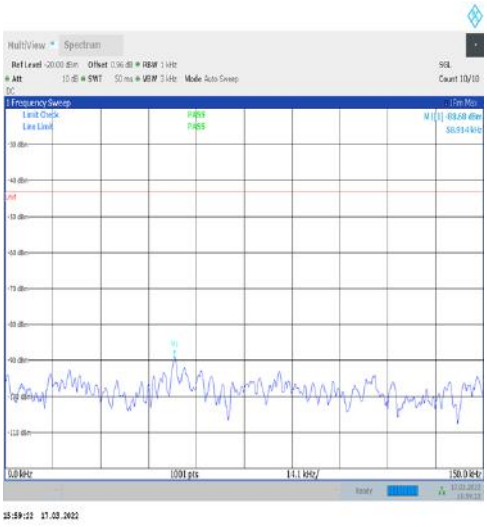
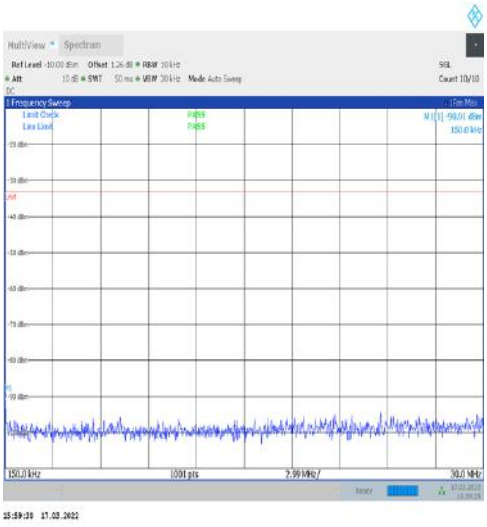
Conducted Spurious Emission for SA

Test Graphs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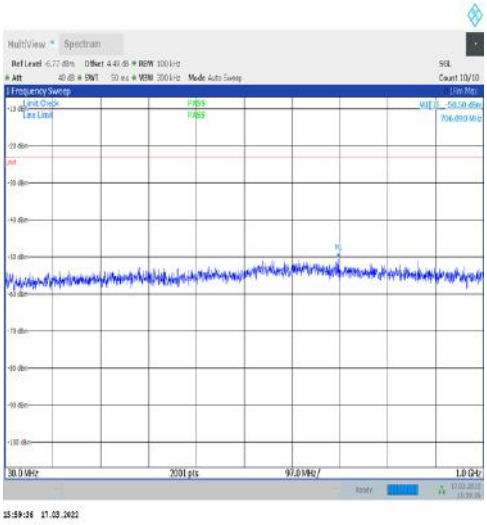	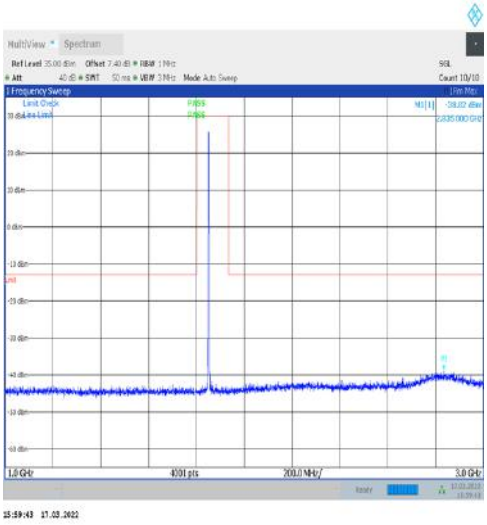
1-N25-15-40-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1--50.50--23-PASS	1-N25-15-40-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1--38.82--13-PASS

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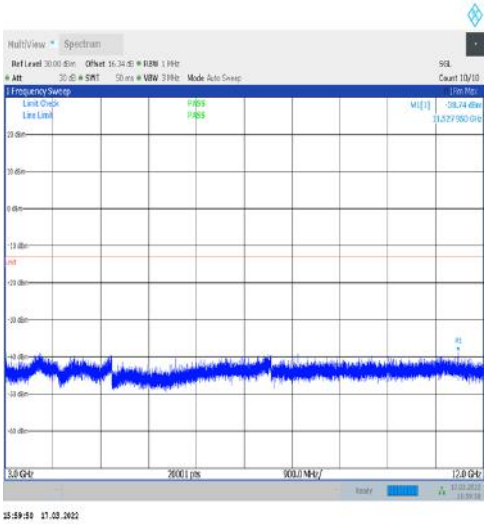	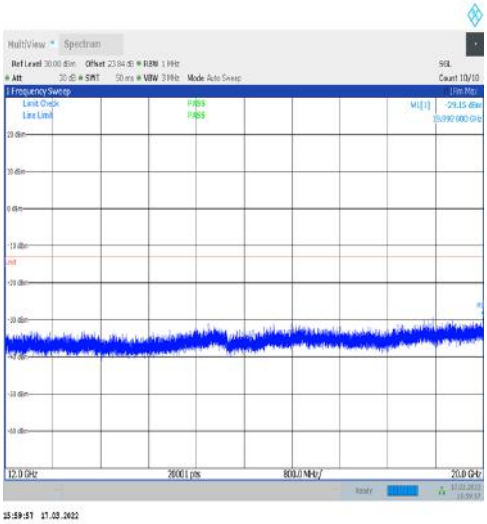
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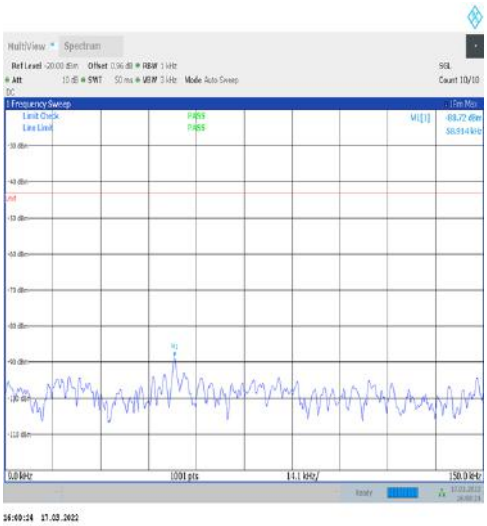	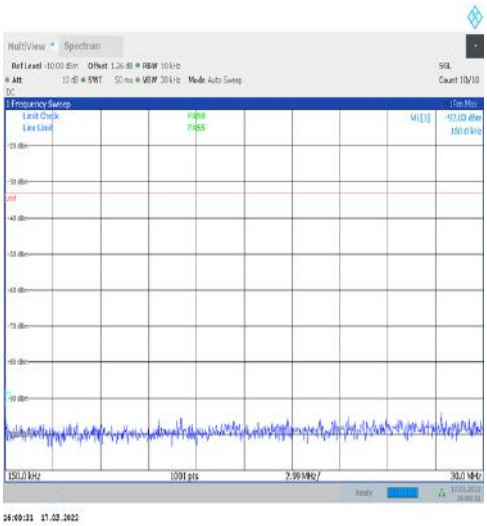
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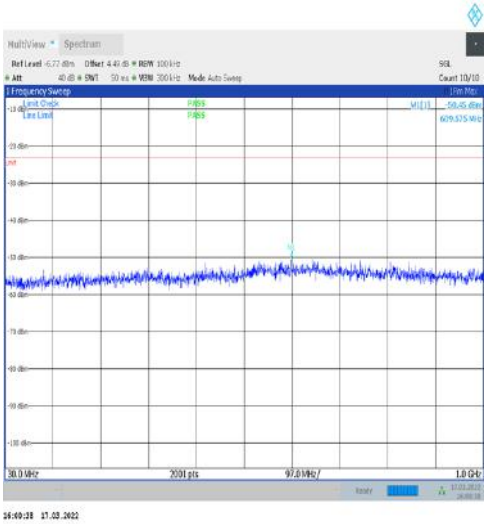

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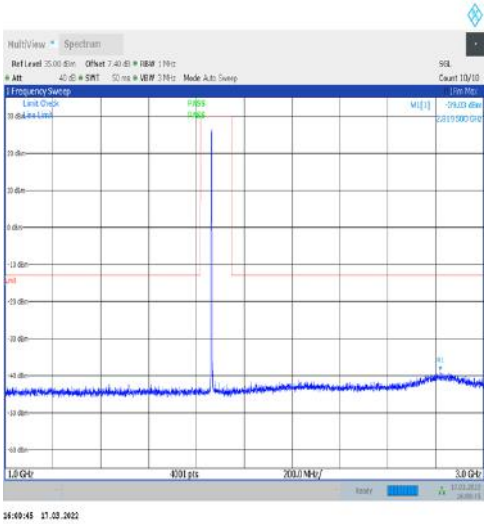

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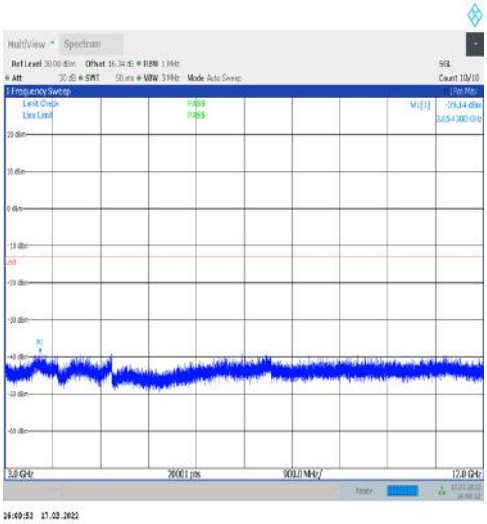

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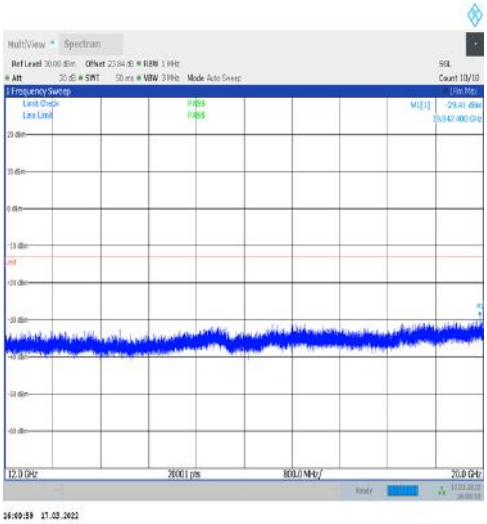

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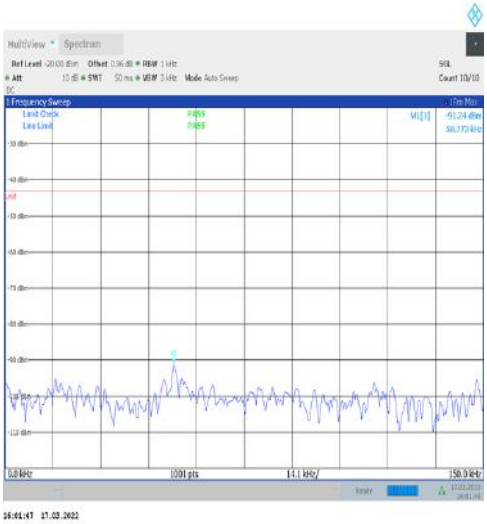

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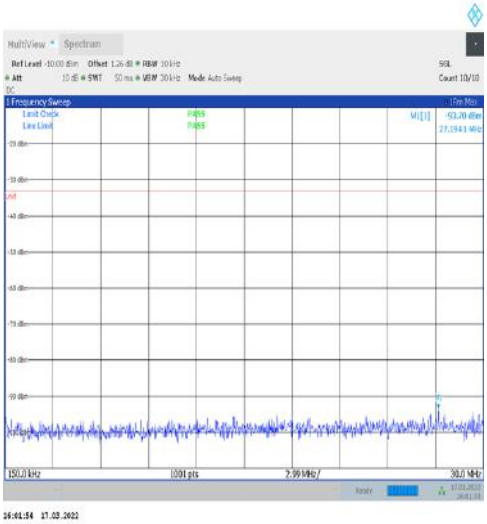

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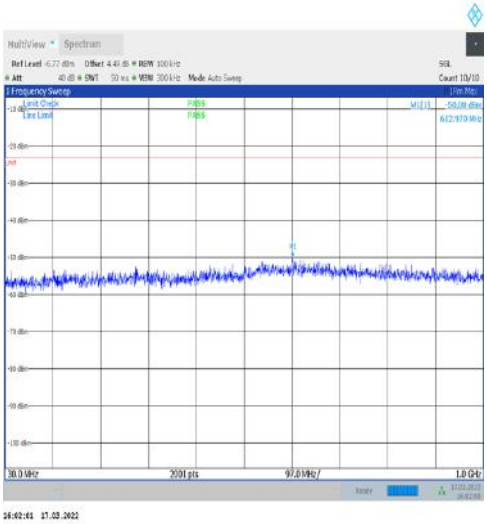

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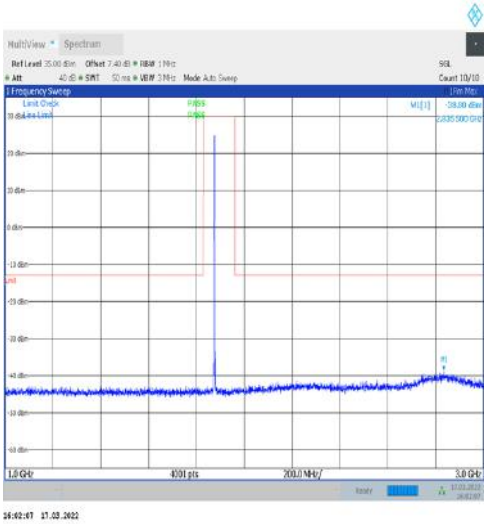

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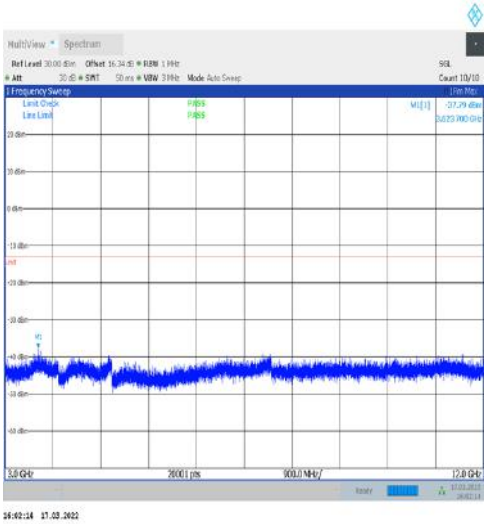	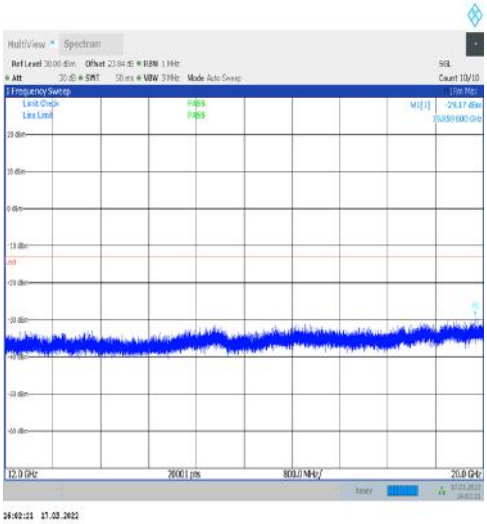
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Member of the SGS Group (SGS SA)

Field Strength of Spurious Radiation

Test Band = SA n25_ 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	3702	68.58	-111.07	-42.49	-13.00	29.49	263	164	Horizontal
2	5551.5	53.95	-106.37	-52.42	-13.00	39.42	142	177	Horizontal
3	7402.5	57.17	-100.79	-43.62	-13.00	30.62	264	309	Horizontal
4	9260.45	46.32	-95.08	-48.76	-13.00	35.76	175	273	Horizontal
5	11112.54	42.82	-91.10	-48.28	-13.00	35.28	264	153	Horizontal
6	12964.63	42.00	-90.59	-48.59	-13.00	35.59	175	153	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3701.25	67.63	-111.07	-43.44	-13.00	30.44	211	1	Vertical
2	5551.5	59.09	-106.37	-47.28	-13.00	34.28	175	0	Vertical
3	7402.5	57.49	-100.79	-43.30	-13.00	30.30	236	287	Vertical
4	9253.5	51.80	-95.08	-43.28	-13.00	30.28	211	8	Vertical
5	11112.54	43.22	-91.10	-47.88	-13.00	34.88	174	200	Vertical
6	12964.63	42.24	-90.59	-48.35	-13.00	35.35	221	175	Vertical

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Test Band = SA n25_ 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	3726.75	63.49	-110.94	-47.45	-13.00	34.45	231	224	Horizontal
2	5589	64.05	-106.24	-42.19	-13.00	29.19	175	125	Horizontal
3	7452	53.47	-100.57	-47.10	-13.00	34.10	264	64	Horizontal
4	9322.95	47.43	-95.03	-47.60	-13.00	34.60	185	310	Horizontal
5	11187.54	43.89	-90.86	-46.97	-13.00	33.97	122	237	Horizontal
6	13052.13	42.29	-90.31	-48.02	-13.00	35.02	244	76	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3726	65.05	-110.95	-45.90	-13.00	32.90	152	236	Vertical
2	5589.75	65.11	-106.24	-41.13	-13.00	28.13	264	357	Vertical
3	7452.75	61.86	-100.57	-38.71	-13.00	25.71	244	298	Vertical
4	9315.75	53.74	-95.05	-41.31	-13.00	28.31	185	175	Vertical
5	11187.54	41.98	-90.86	-48.88	-13.00	35.88	188	346	Vertical
6	13052.13	43.26	-90.31	-47.05	-13.00	34.05	366	248	Vertical

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Member of the SGS Group (SGS SA)

Test Band = SA n25_ 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	3751.5	64.21	-110.82	-46.61	-13.00	33.61	163	0	Horizontal
2	5627.25	67.05	-106.08	-39.03	-13.00	26.03	241	138	Horizontal
3	7502.25	58.96	-100.35	-41.39	-13.00	28.39	177	160	Horizontal
4	9385.45	46.47	-94.89	-48.42	-13.00	35.42	264	39	Horizontal
5	11262.54	42.75	-91.13	-48.38	-13.00	35.38	178	175	Horizontal
6	13139.63	43.50	-90.18	-46.68	-13.00	33.68	265	209	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3750.75	64.61	-110.82	-46.21	-13.00	33.21	362	174	Vertical
2	5627.25	68.15	-106.08	-37.93	-13.00	24.93	142	237	Vertical
3	7503	58.23	-100.34	-42.11	-13.00	29.11	264	40	Vertical
4	9378	52.49	-94.91	-42.42	-13.00	29.42	175	7	Vertical
5	11262.54	44.52	-91.13	-46.61	-13.00	33.61	264	138	Vertical
6	13139.63	42.54	-90.18	-47.64	-13.00	34.64	175	237	Vertical

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Member of the SGS Group (SGS SA)

Test Band = NSA DC_12A_n25_ 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	3701.25	71.07	-111.07	-40.00	-13.00	27.00	211	163	Horizontal
2	5553.27	48.94	-106.36	-57.42	-13.00	44.42	214	163	Horizontal
3	7402.5	57.61	-100.79	-43.18	-13.00	30.18	196	212	Horizontal
4	9255.45	46.42	-95.08	-48.66	-13.00	35.66	211	345	Horizontal
5	11106.54	41.70	-91.12	-49.42	-13.00	36.42	142	212	Horizontal
6	12957.63	41.62	-90.60	-48.98	-13.00	35.98	265	0	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3701.25	60.94	-111.07	-50.13	-13.00	37.13	214	69	Vertical
2	5551.5	64.67	-106.37	-41.70	-13.00	28.70	162	1	Vertical
3	7401.75	55.06	-100.79	-45.73	-13.00	32.73	284	280	Vertical
4	9252.75	54.77	-95.08	-40.31	-13.00	27.31	141	264	Vertical
5	11106.54	42.60	-91.12	-48.52	-13.00	35.52	196	4	Vertical
6	12957.63	43.06	-90.60	-47.54	-13.00	34.54	145	168	Vertical

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Member of the SGS Group (SGS SA)

Test Band = NSA DC_12A_n25_ 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	3745.5	75.72	-110.85	-35.13	-13.00	22.13	241	115	Horizontal
2	5619	62.28	-106.12	-43.84	-13.00	30.84	156	0	Horizontal
3	7491.75	52.71	-100.40	-47.69	-13.00	34.69	264	247	Horizontal
4	9367.95	46.12	-94.93	-48.81	-13.00	35.81	175	280	Horizontal
5	11241.54	42.26	-91.03	-48.77	-13.00	35.77	265	230	Horizontal
6	13115.13	42.30	-90.11	-47.81	-13.00	34.81	147	84	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3746.25	66.11	-110.84	-44.73	-13.00	31.73	142	162	Vertical
2	5619	65.28	-106.12	-40.84	-13.00	27.84	265	230	Vertical
3	7494.36	46.70	-100.38	-53.68	-13.00	40.68	175	213	Vertical
4	9365.25	54.90	-94.94	-40.04	-13.00	27.04	298	112	Vertical
5	11241.54	43.15	-91.03	-47.88	-13.00	34.88	175	295	Vertical
6	13115.13	42.44	-90.11	-47.67	-13.00	34.67	211	264	Vertical

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Member of the SGS Group (SGS SA)

Test Band = NSA DC_12A_n25_ 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	3791.25	71.47	-110.61	-39.14	-13.00	26.14	241	328	Horizontal
2	5686.5	59.04	-105.82	-46.78	-13.00	33.78	162	357	Horizontal
3	7582.5	53.50	-99.91	-46.41	-13.00	33.41	274	296	Horizontal
4	9480.45	44.60	-94.86	-50.26	-13.00	37.26	185	50	Horizontal
5	11376.54	41.22	-91.52	-50.30	-13.00	37.30	264	34	Horizontal
6	13272.63	42.92	-90.61	-47.69	-13.00	34.69	175	0	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3790.5	69.40	-110.62	-41.22	-13.00	28.22	241	182	Vertical
2	5686.5	65.91	-105.82	-39.91	-13.00	26.91	153	0	Vertical
3	7582.5	61.40	-99.91	-38.51	-13.00	25.51	271	9	Vertical
4	9480.45	43.30	-94.86	-51.56	-13.00	38.56	175	182	Vertical
5	11376.54	41.52	-91.52	-50.00	-13.00	37.00	264	233	Vertical
6	13272.63	41.74	-90.61	-48.87	-13.00	35.87	163	233	Vertical

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Test Band = NSA DC_48A_n25_ 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	3702.18	63.69	-87.27	-23.58	-13.00	10.58	241	154	Horizontal
2	5553.27	48.17	-105.32	-57.15	-13.00	44.15	175	117	Horizontal
3	7404.36	46.40	-100.79	-54.39	-13.00	41.39	264	117	Horizontal
4	9255.45	45.65	-95.00	-49.35	-13.00	36.35	175	1	Horizontal
5	11106.54	41.30	-90.92	-49.62	-13.00	36.62	266	0	Horizontal
6	12957.63	42.36	-90.61	-48.25	-13.00	35.25	288	133	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3701.5	54.81	-87.28	-32.47	-13.00	19.47	241	40	Vertical
2	5553.27	48.61	-105.32	-56.71	-13.00	43.71	186	9	Vertical
3	7404.36	46.92	-100.79	-53.87	-13.00	40.87	241	0	Vertical
4	9255.45	46.72	-95.00	-48.28	-13.00	35.28	175	357	Vertical
5	11106.54	41.77	-90.92	-49.15	-13.00	36.15	264	0	Vertical
6	12957.63	42.37	-90.61	-48.24	-13.00	35.24	175	267	Vertical

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Test Band = NSA DC_48A_n25_ 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	3747.18	54.68	-86.86	-32.18	-13.00	19.18	263	19	Horizontal
2	5620.77	48.14	-105.32	-57.18	-13.00	44.18	241	149	Horizontal
3	7494.36	46.73	-100.38	-53.65	-13.00	40.65	175	166	Horizontal
4	9367.95	46.19	-94.58	-48.39	-13.00	35.39	264	3	Horizontal
5	11241.54	42.56	-91.03	-48.47	-13.00	35.47	175	19	Horizontal
6	13115.13	42.21	-90.23	-48.02	-13.00	35.02	268	357	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3747.18	38.49	-86.86	-48.37	-13.00	35.37	241	114	Vertical
2	5620.77	50.49	-105.32	-54.83	-13.00	41.83	175	1	Vertical
3	7494.36	47.21	-100.38	-53.17	-13.00	40.17	264	229	Vertical
4	9367.95	45.66	-94.58	-48.92	-13.00	35.92	175	357	Vertical
5	11241.54	42.71	-91.03	-48.32	-13.00	35.32	284	129	Vertical
6	13115.13	43.24	-90.23	-46.99	-13.00	33.99	133	0	Vertical

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Test Band = NSA DC_48A_n25_ 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	3792.18	70.49	-86.46	-15.97	-13.00	2.97	211	145	Horizontal
2	5688.27	49.54	-105.05	-55.51	-13.00	42.51	152	84	Horizontal
3	7584.36	48.33	-99.88	-51.55	-13.00	38.55	264	68	Horizontal
4	9480.45	44.25	-94.72	-50.47	-13.00	37.47	175	0	Horizontal
5	11376.54	41.03	-91.62	-50.59	-13.00	37.59	264	357	Horizontal
6	13272.63	42.66	-90.50	-47.84	-13.00	34.84	175	296	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3792.18	38.05	-86.46	-48.41	-13.00	35.41	263	324	Vertical
2	5688.27	48.63	-105.05	-56.42	-13.00	43.42	241	262	Vertical
3	7584.36	49.46	-99.88	-50.42	-13.00	37.42	175	212	Vertical
4	9480.45	42.90	-94.72	-51.82	-13.00	38.82	268	198	Vertical
5	11376.54	42.00	-91.62	-49.62	-13.00	36.62	145	0	Vertical
6	13272.63	41.99	-90.50	-48.51	-13.00	35.51	284	18	Vertical

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Test Band = NSA DC_66A_n25_ 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	3701.25	58.42	-111.07	-52.65	-13.00	39.65	262	328	Horizontal
2	5553.27	49.01	-106.36	-57.35	-13.00	44.35	214	0	Horizontal
3	7404.36	46.98	-100.78	-53.80	-13.00	40.80	185	0	Horizontal
4	9255.45	46.19	-95.08	-48.89	-13.00	35.89	265	313	Horizontal
5	11106.54	41.90	-91.12	-49.22	-13.00	36.22	175	262	Horizontal
6	12957.63	42.98	-90.60	-47.62	-13.00	34.62	261	34	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.18	48.15	-111.07	-62.92	-13.00	49.92	241	0	Vertical
2	5553.27	49.54	-106.36	-56.82	-13.00	43.82	152	8	Vertical
3	7404.36	47.21	-100.78	-53.57	-13.00	40.57	268	357	Vertical
4	9255.45	46.43	-95.08	-48.65	-13.00	35.65	144	34	Vertical
5	11106.54	43.09	-91.12	-48.03	-13.00	35.03	221	117	Vertical
6	12957.63	42.29	-90.60	-48.31	-13.00	35.31	185	0	Vertical

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Test Band = NSA DC_66A_n25_ 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	3746.25	75.75	-110.84	-35.09	-13.00	22.09	262	199	Horizontal
2	5620.77	49.10	-106.11	-57.01	-13.00	44.01	251	160	Horizontal
3	7494.36	47.31	-100.38	-53.07	-13.00	40.07	141	96	Horizontal
4	9367.95	45.49	-94.93	-49.44	-13.00	36.44	152	118	Horizontal
5	11241.54	41.92	-91.03	-49.11	-13.00	36.11	265	55	Horizontal
6	13115.13	42.69	-90.11	-47.42	-13.00	34.42	214	118	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3747.18	47.68	-110.84	-63.16	-13.00	50.16	241	145	Vertical
2	5620.77	48.64	-106.11	-57.47	-13.00	44.47	152	215	Vertical
3	7494.36	47.35	-100.38	-53.03	-13.00	40.03	268	8	Vertical
4	9367.95	45.46	-94.93	-49.47	-13.00	36.47	294	262	Vertical
5	11241.54	43.37	-91.03	-47.66	-13.00	34.66	185	357	Vertical
6	13115.13	42.53	-90.11	-47.58	-13.00	34.58	266	231	Vertical

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Member of the SGS Group (SGS SA)

Test Band = NSA DC_66A_n25_ 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	3791.25	71.43	-110.61	-39.18	-13.00	26.18	241	282	Horizontal
2	5688.27	48.00	-105.81	-57.81	-13.00	44.81	162	101	Horizontal
3	7584.36	47.33	-99.90	-52.57	-13.00	39.57	241	199	Horizontal
4	9480.45	43.48	-94.86	-51.38	-13.00	38.38	185	9	Horizontal
5	11376.54	41.42	-91.52	-50.10	-13.00	37.10	264	101	Horizontal
6	13272.63	42.25	-90.61	-48.36	-13.00	35.36	175	132	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3791.25	64.44	-110.61	-46.17	-13.00	33.17	241	217	Vertical
2	5688.27	49.35	-105.81	-56.46	-13.00	43.46	163	0	Vertical
3	7584.36	48.54	-99.90	-51.36	-13.00	38.36	214	22	Vertical
4	9480.45	44.54	-94.86	-50.32	-13.00	37.32	188	250	Vertical
5	11376.54	40.70	-91.52	-50.82	-13.00	37.82	264	169	Vertical
6	13272.63	42.98	-90.61	-47.63	-13.00	34.63	175	39	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
N25	15	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	6.100000	0.003240	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	5.200000	0.002762	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	4.600000	0.002444	PASS
N25	15	40	CP-QPSK	M	Outer_Full	VH	NT	1.500000	0.000797	PASS
N25	15	40	CP-QPSK	M	Outer_Full	VN	NT	0.800000	0.000425	PASS
N25	15	40	CP-QPSK	M	Outer_Full	VL	NT	0.600000	0.000319	PASS

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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	7.800000	0.004143	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	5.800000	0.003081	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	7.300000	0.003878	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	0	6.400000	0.003400	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	10	6.700000	0.003559	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	20	5.700000	0.003028	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	30	7.100000	0.003772	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	40	4.500000	0.002390	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	50	5.400000	0.002869	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	-30	5.800000	0.003081	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	-20	2.300000	0.001222	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	-10	2.700000	0.001434	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	0	3.700000	0.001965	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	10	2.600000	0.001381	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	20	2.700000	0.001434	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	30	2.000000	0.001062	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	40	2.800000	0.001487	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	50	2.500000	0.001328	PASS

The End

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