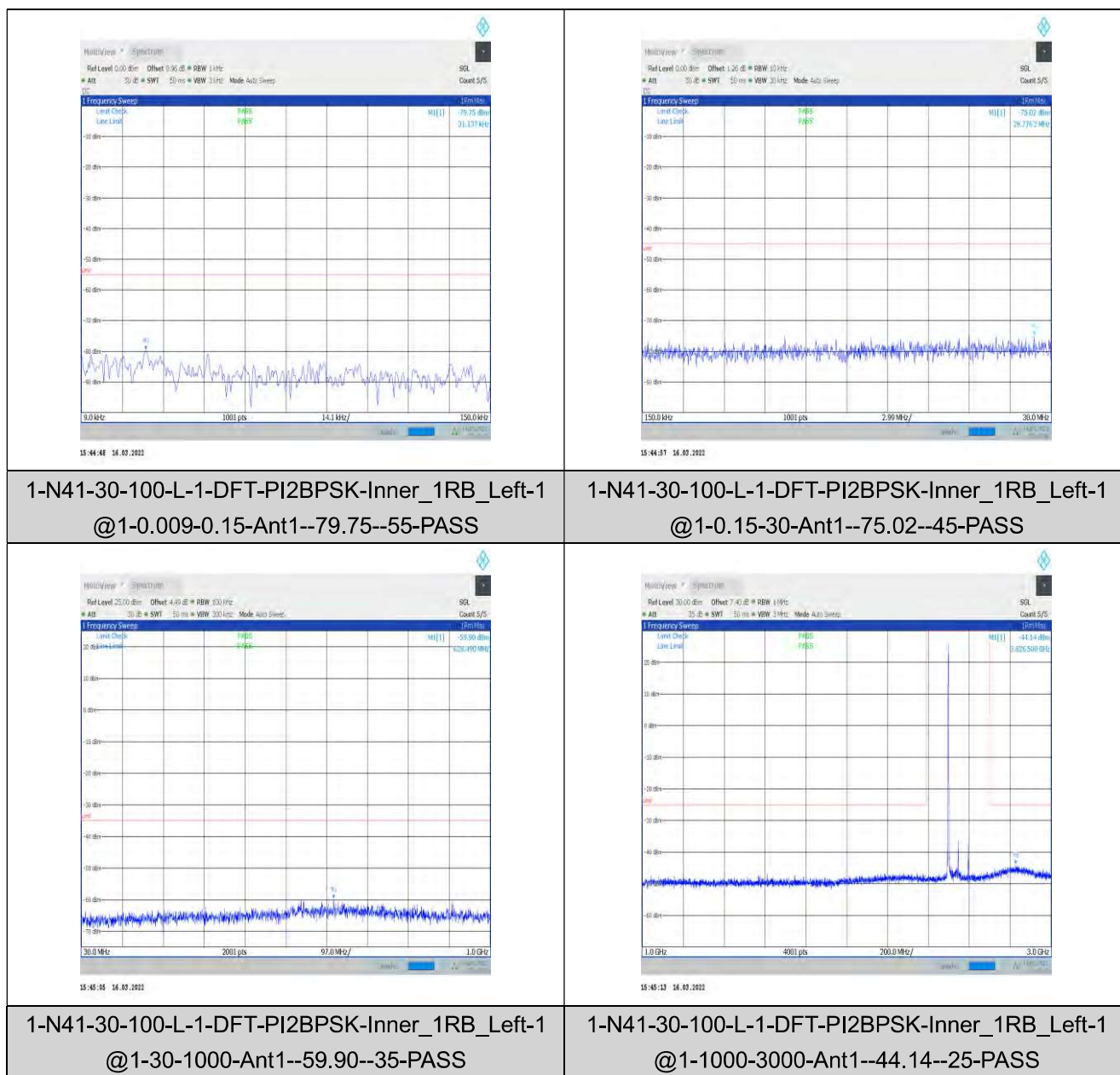


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### Conducted Spurious Emission for SA

#### Test Graphs



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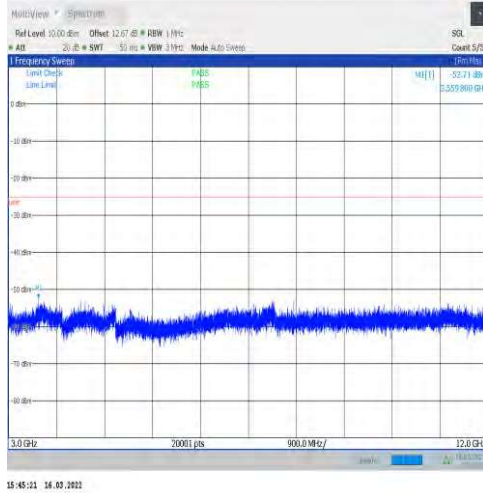
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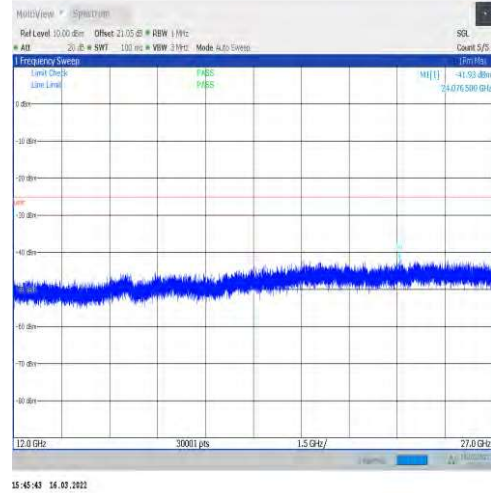
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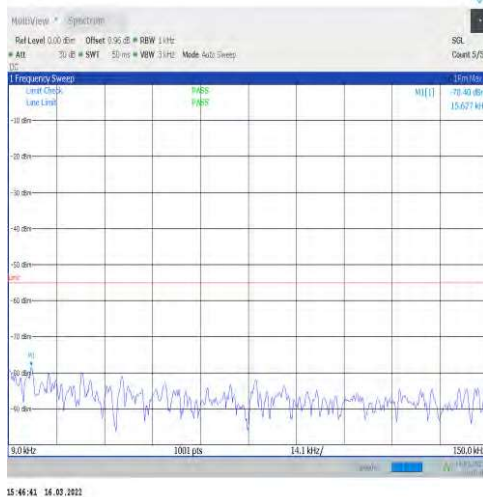
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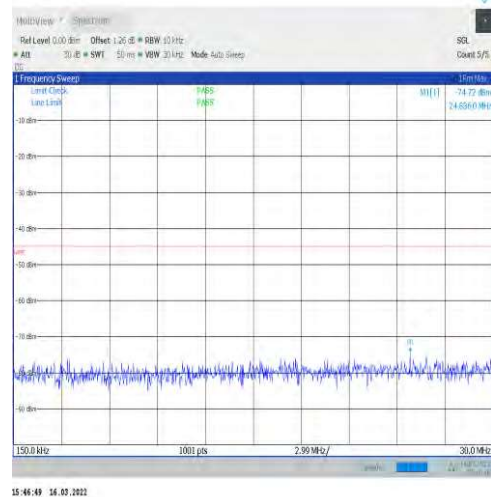
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@1-3000-12000-Ant1--52.71--25-PASS



1-N41-30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-12000-27000-Ant1--41.93--25-PASS



1-N41-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-0.009-0.15-Ant1--78.40--55-PASS



1-N41-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-0.15-30-Ant1--74.72--45-PASS



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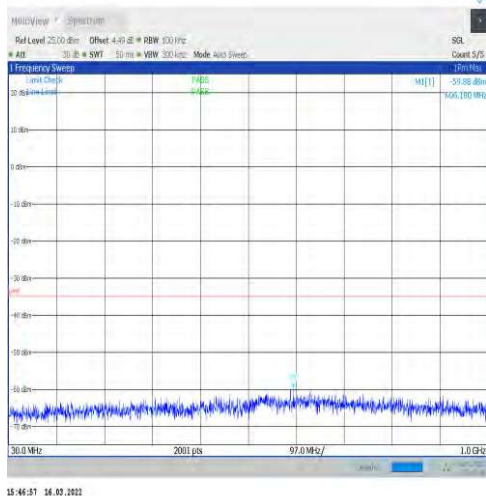
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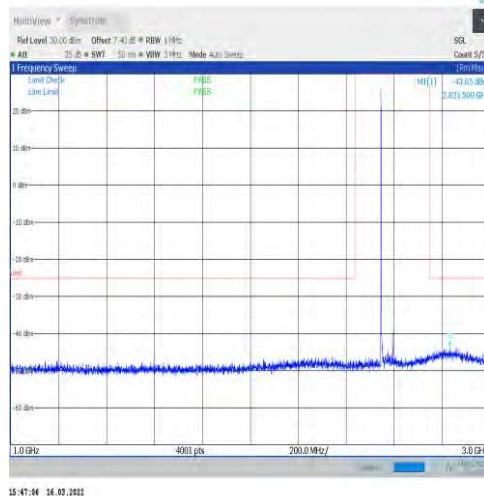
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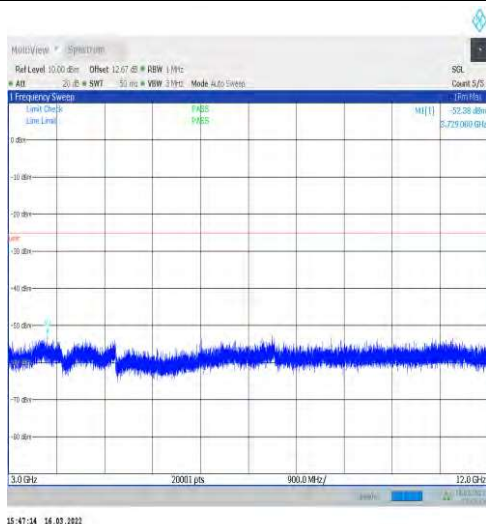
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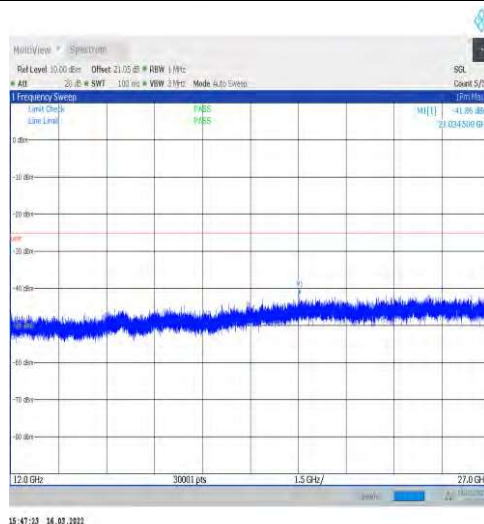
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@1-30-1000-Ant1--59.88--35-PASS



1-N41-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-1000-3000-Ant1--43.65--25-PASS



1-N41-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-3000-12000-Ant1--52.38--25-PASS



1-N41-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-12000-27000-Ant1--41.86--25-PASS



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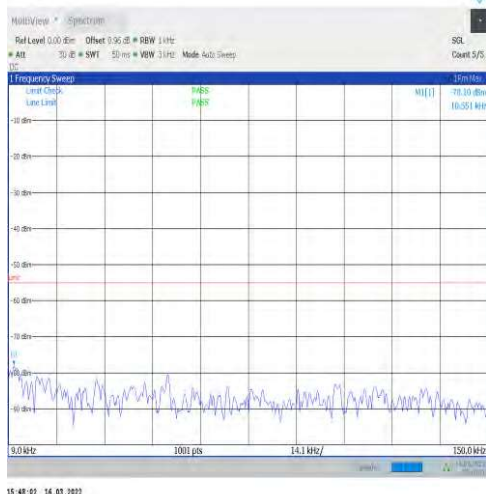
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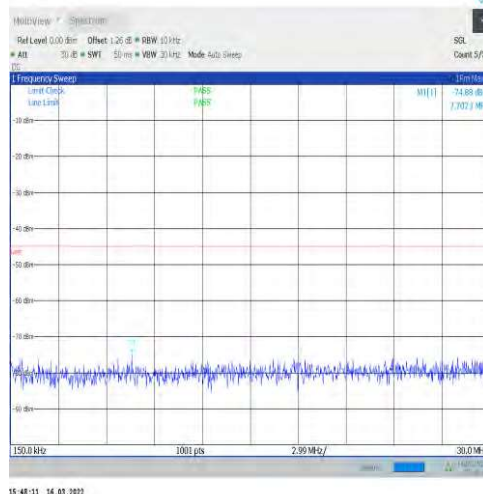
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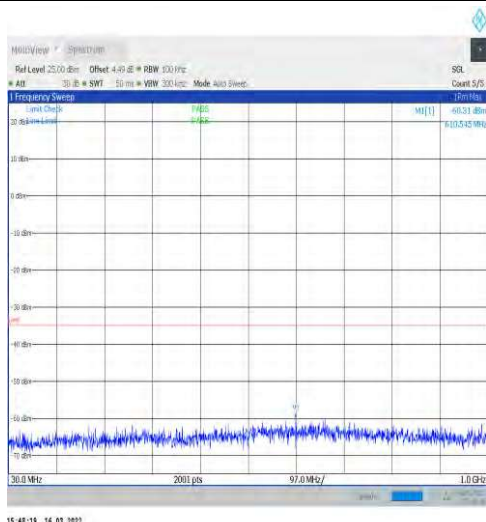
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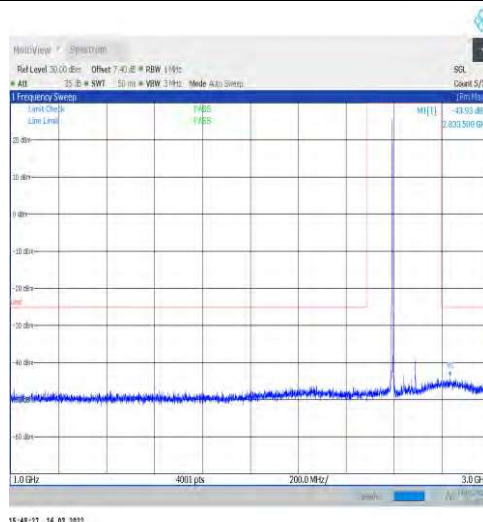
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@1-0.009-0.15-Ant1--78.10--55-PASS



1-N41-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-0.15-30-Ant1--74.88--45-PASS



1-N41-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-30-1000-Ant1--60.31--35-PASS



1-N41-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-1000-3000-Ant1--43.93--25-PASS



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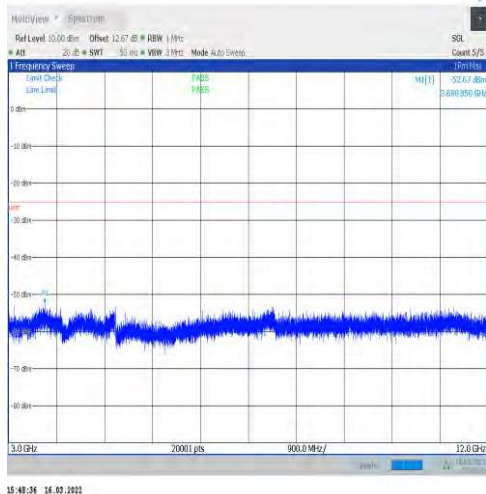
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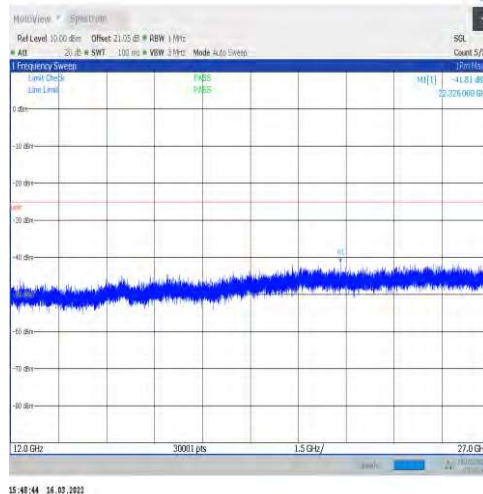
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1-N41-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-3000-12000-Ant1--52.67--25-PASS



1-N41-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-12000-27000-Ant1--41.81--25-PASS



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## Field Strength of Spurious Radiation

Test Band = NSA DC\_2A\_n41\_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	5002.2	49.02	-107.58	-58.56	-25.00	33.56	263	258	Horizontal
2	7503.3	58.17	-100.34	-42.17	-25.00	17.17	214	292	Horizontal
3	10004.4	44.42	-93.89	-49.47	-25.00	24.47	185	280	Horizontal
4	12505.5	42.87	-91.38	-48.51	-25.00	23.51	264	199	Horizontal
5	15006.6	42.19	-90.07	-47.88	-25.00	22.88	175	175	Horizontal
6	17507.7	39.50	-86.50	-47.00	-25.00	22.00	264	304	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.2	50.51	-107.58	-57.07	-25.00	32.07	211	349	Vertical
2	7503.3	64.97	-100.34	-35.37	-25.00	10.37	163	304	Vertical
3	10004.4	44.06	-93.89	-49.83	-25.00	24.83	321	200	Vertical
4	12505.5	43.45	-91.38	-47.93	-25.00	22.93	142	63	Vertical
5	15006.6	47.50	-90.07	-42.57	-25.00	17.57	144	246	Vertical
6	17507.7	39.51	-86.50	-46.99	-25.00	21.99	185	357	Vertical



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Test Band = NSA DC\_2A\_n41\_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	5096.16	49.70	-106.96	-57.26	-25.00	32.26	211	94	Horizontal
2	7644.24	48.87	-99.76	-50.89	-25.00	25.89	163	128	Horizontal
3	10192.32	42.73	-93.11	-50.38	-25.00	25.38	321	1	Horizontal
4	12740.4	43.55	-91.03	-47.48	-25.00	22.48	142	326	Horizontal
5	15288.48	42.13	-90.16	-48.03	-25.00	23.03	265	60	Horizontal
6	17695.7143	45.16	-84.88	-39.72	-25.00	14.72	266	0	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5096.16	49.36	-106.96	-57.60	-25.00	32.60	211	234	Vertical
2	7504.2857	64.14	-100.34	-36.20	-25.00	11.20	142	210	Vertical
3	10192.32	43.89	-93.11	-49.22	-25.00	24.22	262	74	Vertical
4	12740.4	43.83	-91.03	-47.20	-25.00	22.20	222	176	Vertical
5	15288.48	42.29	-90.16	-47.87	-25.00	22.87	211	268	Vertical
6	17836.56	40.12	-84.21	-44.09	-25.00	19.09	145	188	Vertical



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Test Band = NSA DC\_2A\_n41\_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	5190.18	50.07	-106.82	-56.75	-25.00	31.75	221	96	Horizontal
2	7785.27	48.68	-98.90	-50.22	-25.00	25.22	155	75	Horizontal
3	10380.36	43.04	-92.87	-49.83	-25.00	24.83	265	349	Horizontal
4	12975.45	45.85	-90.59	-44.74	-25.00	19.74	211	189	Horizontal
5	15570.54	42.06	-90.76	-48.70	-25.00	23.70	301	63	Horizontal
6	17695.7143	43.28	-84.88	-41.60	-25.00	16.60	185	1	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5190.18	48.86	-106.82	-57.96	-25.00	32.96	231	235	Vertical
2	7785.27	49.35	-98.90	-49.55	-25.00	24.55	142	35	Vertical
3	10380.36	42.89	-92.87	-49.98	-25.00	24.98	265	235	Vertical
4	12975.45	42.70	-90.59	-47.89	-25.00	22.89	241	129	Vertical
5	15570.54	41.04	-90.76	-49.72	-25.00	24.72	175	69	Vertical
6	17693.5714	41.66	-84.91	-43.25	-25.00	18.25	268	0	Vertical



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Test Band = NSA DC\_66A\_n41\_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	5002.2	50.33	-107.58	-57.25	-25.00	32.25	169	68	Horizontal
2	7503.3	48.12	-100.34	-52.22	-25.00	27.22	174	58	Horizontal
3	10004.4	45.49	-93.89	-48.40	-25.00	23.40	178	104	Horizontal
4	12505.5	42.86	-91.38	-48.52	-25.00	23.52	266	241	Horizontal
5	15006.6	42.94	-90.07	-47.13	-25.00	22.13	269	68	Horizontal
6	17507.7	40.36	-86.50	-46.14	-25.00	21.14	178	182	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.2	51.23	-107.58	-56.35	-25.00	31.35	263	220	Vertical
2	7503.3	48.21	-100.34	-52.13	-25.00	27.13	314	105	Vertical
3	10004.4	45.85	-93.89	-48.04	-25.00	23.04	175	34	Vertical
4	12505.5	44.41	-91.38	-46.97	-25.00	21.97	269	360	Vertical
5	15006.6	42.72	-90.07	-47.35	-25.00	22.35	188	302	Vertical
6	17507.7	40.39	-86.50	-46.11	-25.00	21.11	177	345	Vertical



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t (86-512) 62992980 www.sgs.com  
t (86-512) 62992980 sgs.china@sgs.com

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Test Band = NSA DC\_66A\_n41\_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	5096.18	49.85	-106.96	-57.11	-25.00	32.11	142	321	Horizontal
2	7644.27	48.20	-99.76	-51.56	-25.00	26.56	264	321	Horizontal
3	10192.36	43.89	-93.11	-49.22	-25.00	24.22	175	253	Horizontal
4	12740.45	43.60	-91.03	-47.43	-25.00	22.43	298	360	Horizontal
5	15288.54	43.54	-90.16	-46.62	-25.00	21.62	222	46	Horizontal
6	17836.63	40.62	-84.21	-43.59	-25.00	18.59	263	229	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5096.18	50.59	-106.96	-56.37	-25.00	31.37	142	12	Vertical
2	7644.27	49.29	-99.76	-50.47	-25.00	25.47	264	160	Vertical
3	10192.36	43.12	-93.11	-49.99	-25.00	24.99	175	184	Vertical
4	12740.45	43.66	-91.03	-47.37	-25.00	22.37	297	360	Vertical
5	15288.54	42.94	-90.16	-47.22	-25.00	22.22	188	358	Vertical
6	17836.63	40.99	-84.21	-43.22	-25.00	18.22	222	104	Vertical



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t (86-512) 62992980 www.sgsgroup.com.cn  
t (86-512) 62992980 sgs.china@sgs.com

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Test Band = NSA DC\_66A\_n41\_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	5190.18	50.95	-106.82	-55.87	-25.00	30.87	241	11	Horizontal
2	7785.27	49.05	-98.90	-49.85	-25.00	24.85	175	205	Horizontal
3	10380.36	42.89	-92.87	-49.98	-25.00	24.98	268	360	Horizontal
4	12975.45	42.20	-90.59	-48.39	-25.00	23.39	175	331	Horizontal
5	15570.54	42.36	-90.76	-48.40	-25.00	23.40	298	205	Horizontal
6	17695.7143	44.99	-84.88	-39.89	-25.00	14.89	177	181	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5190.18	51.82	-106.82	-55.00	-25.00	30.00	142	22	Vertical
2	7785.27	48.83	-98.90	-50.07	-25.00	25.07	269	205	Vertical
3	10380.36	42.69	-92.87	-50.18	-25.00	25.18	172	112	Vertical
4	12975.45	42.61	-90.59	-47.98	-25.00	22.98	222	160	Vertical
5	15570.54	41.63	-90.76	-49.13	-25.00	24.13	177	78	Vertical
6	17982.8571	41.66	-84.10	-42.44	-25.00	17.44	266	138	Vertical



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn  
t (86-512) 62992980 sgs.china@sgs.com

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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
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-10.800000	-0.004165	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-10.400000	-0.004011	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-8.800000	-0.003394	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VH	NT	-4.100000	-0.001581	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VN	NT	0.000000	0.000000	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VL	NT	-2.900000	-0.001118	PASS



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## Frequency Error VS. Temperature

## Temperature

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-8.800000	-0.003394	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-9.500000	-0.003664	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-5.100000	-0.001967	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-7.500000	-0.002892	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-4.800000	-0.001851	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-6.000000	-0.002314	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-4.300000	-0.001658	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-7.400000	-0.002854	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-6.600000	-0.002545	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-30	4.500000	0.001735	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-20	-1.700000	-0.000656	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-10	0.300000	0.000116	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	0	-7.500000	-0.002892	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	10	-3.000000	-0.001157	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	20	-3.500000	-0.001350	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	30	-1.800000	-0.000694	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	40	-3.500000	-0.001350	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	50	-4.400000	-0.001697	PASS

The End



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