

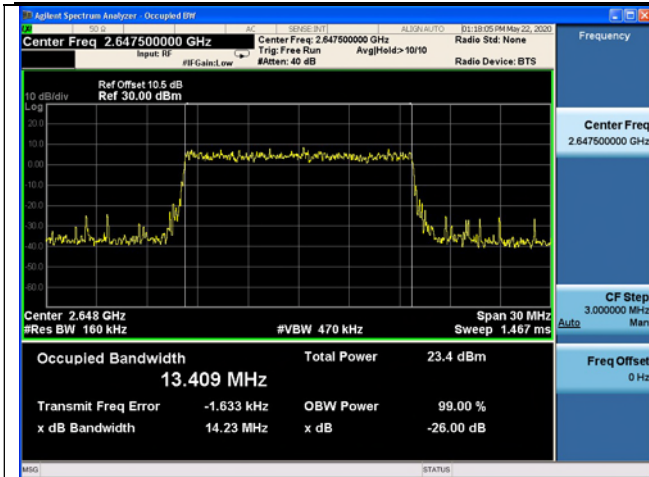


Fig.27

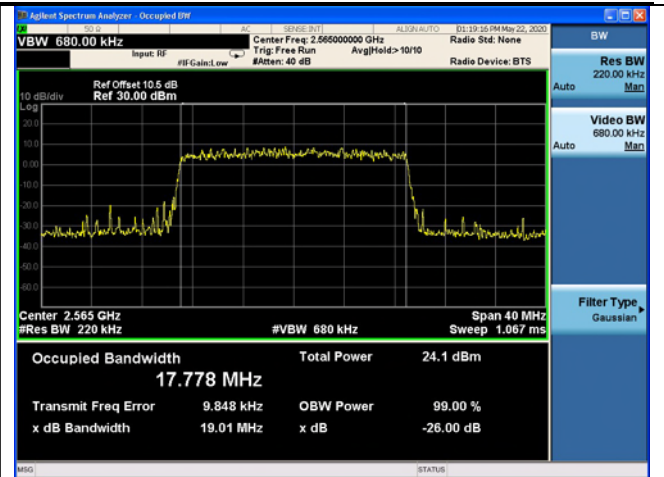


Fig.28

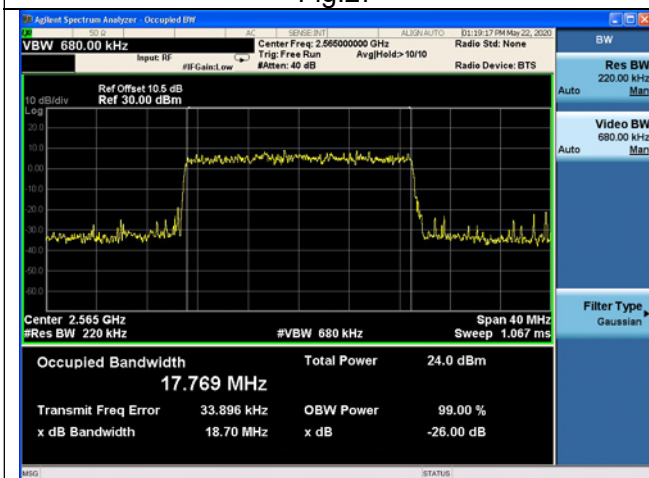


Fig.29

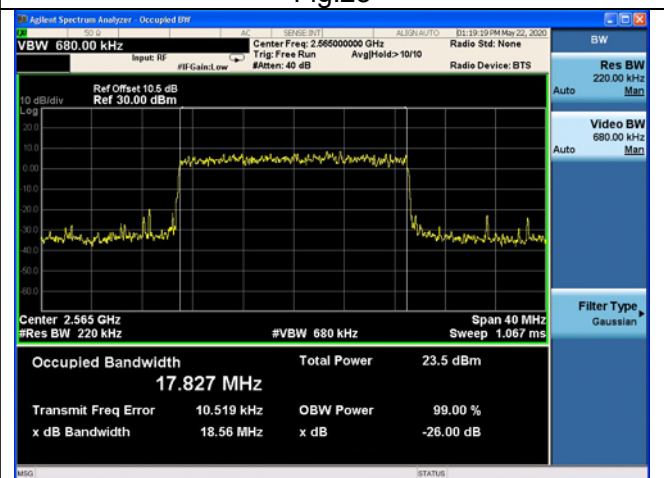


Fig.30

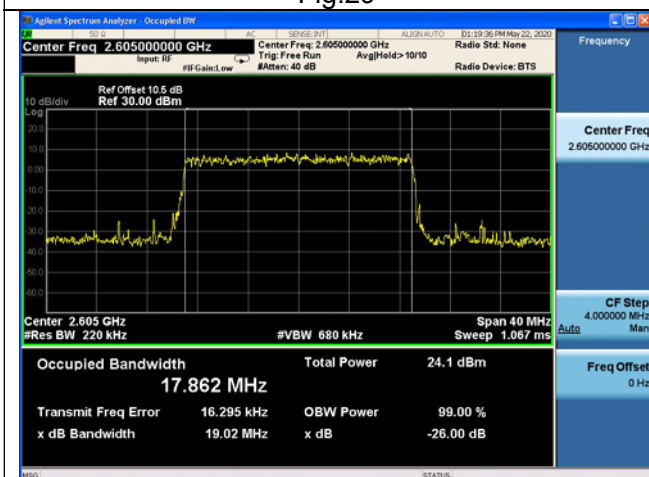


Fig.31

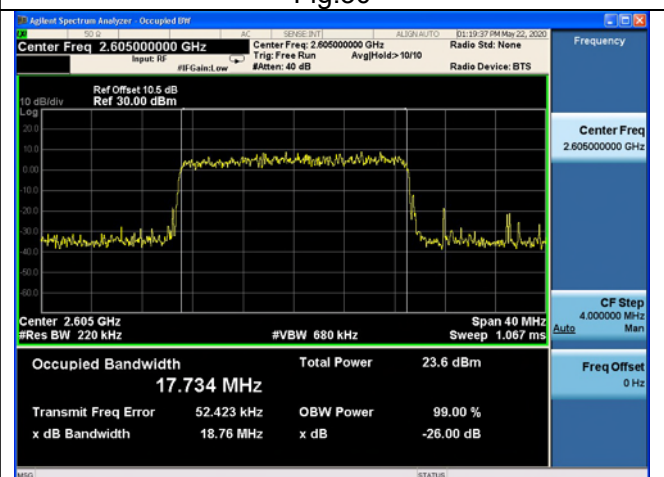


Fig.32

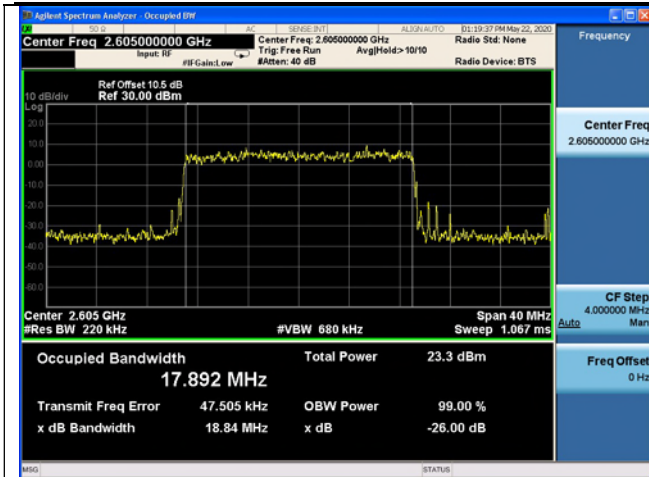


Fig.33

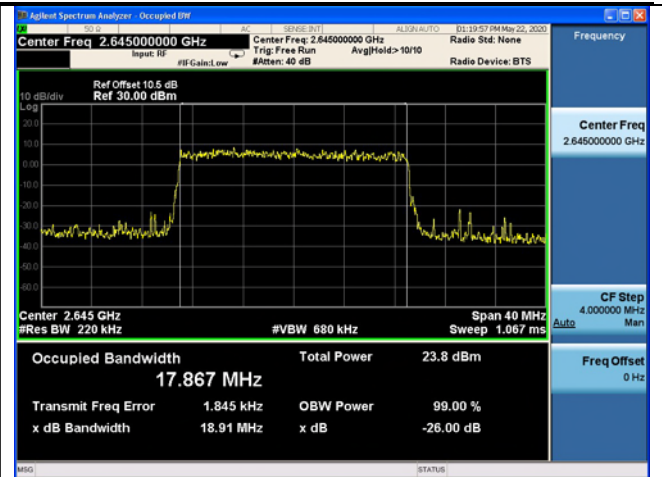


Fig.34

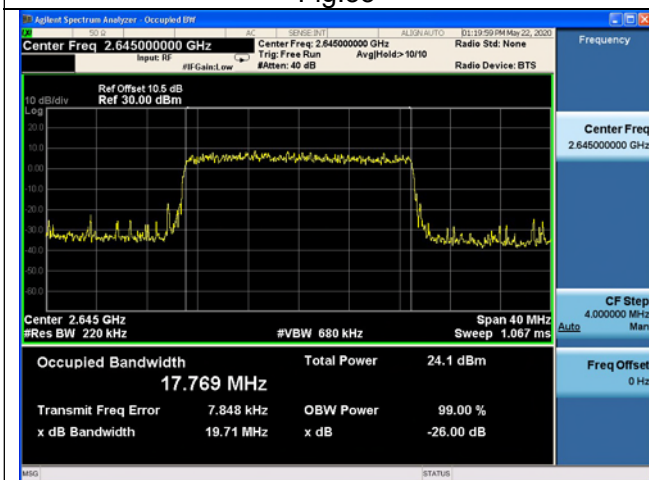


Fig.35

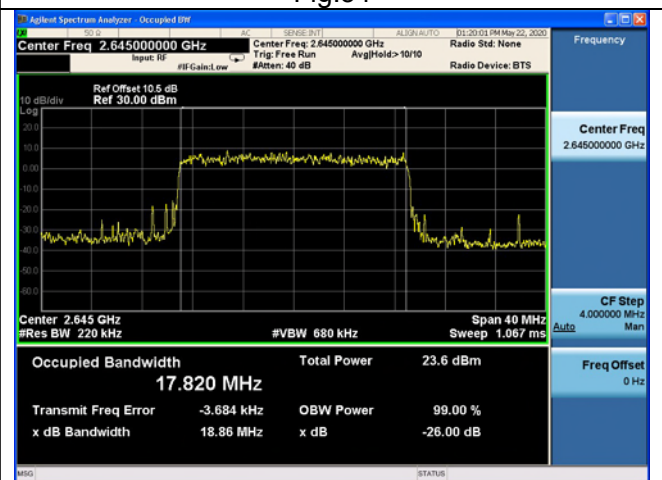


Fig.36

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
41	2605	40740	5	1	0	Fig.1	Fig.2	Fig.3
			10	1	0	Fig.4	Fig.5	Fig.6
			15	1	0	Fig.7	Fig.8	Fig.9
			20	1	0	Fig.10	Fig.11	Fig.12



Fig.1

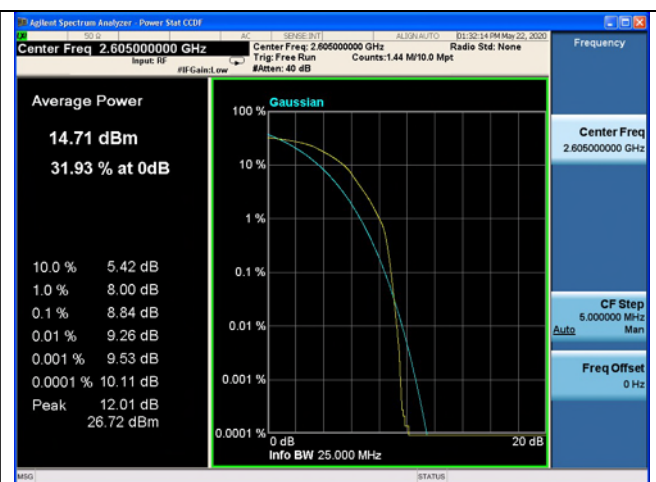


Fig.2



Fig.3



Fig.4

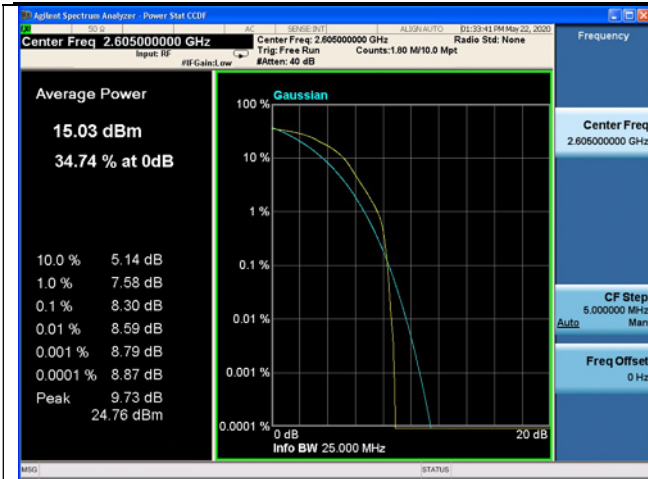


Fig.5

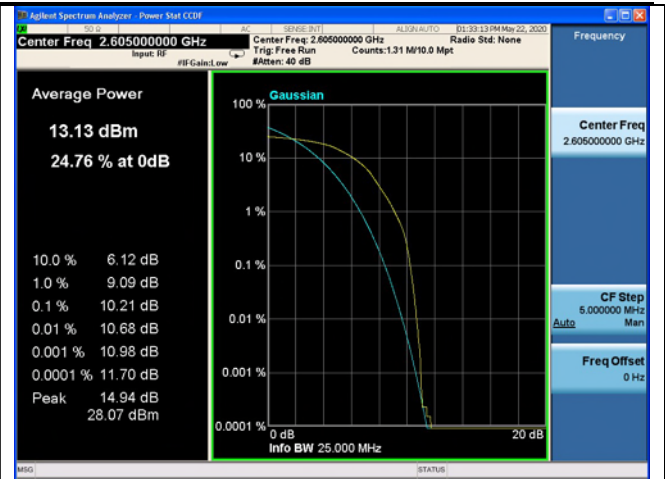


Fig.6

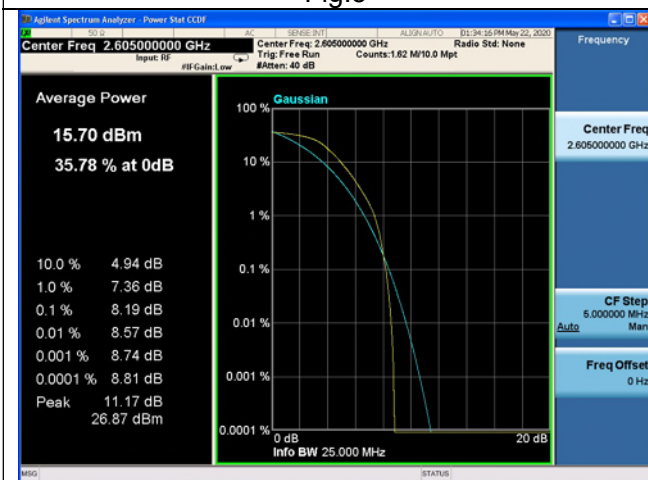


Fig.7

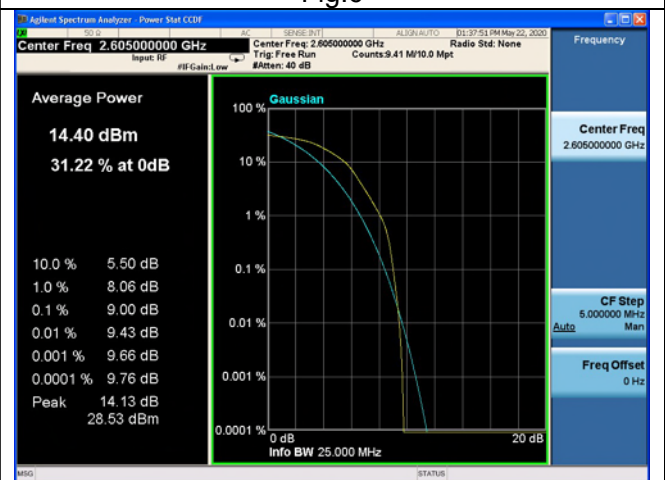


Fig.8



Fig.9

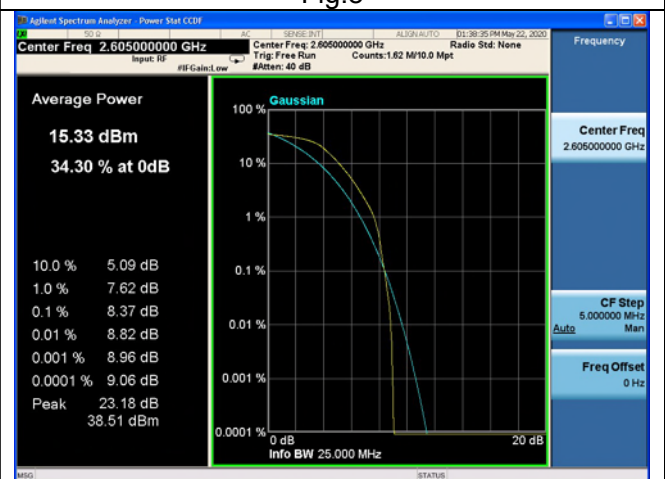


Fig.10

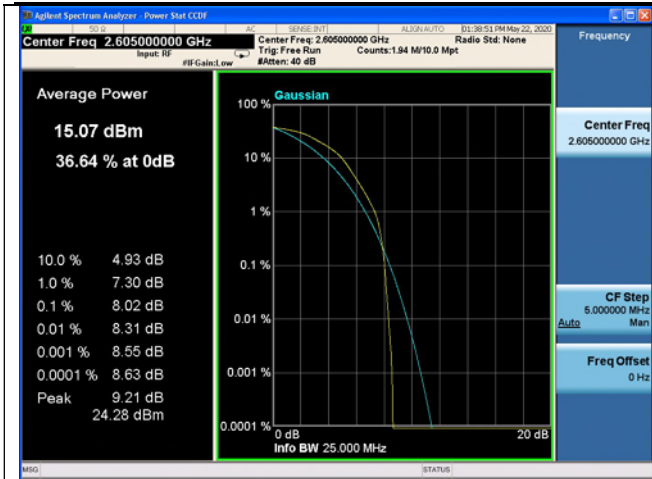


Fig.11

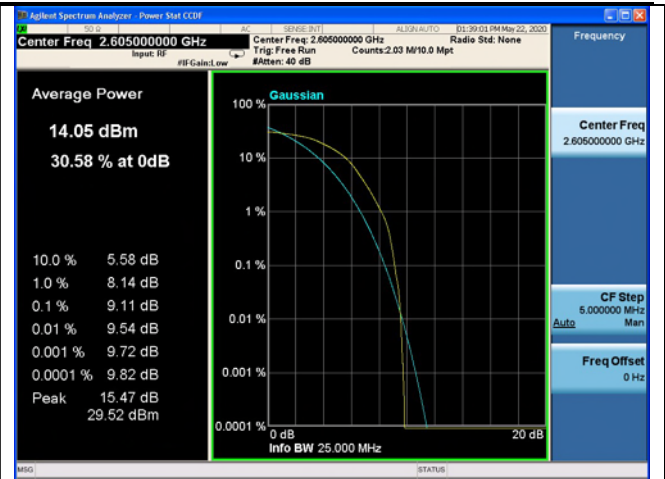


Fig.12

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
41	2565	40340	20	1	0	Fig.1
	2605	40740	20	1	0	Fig.2
	2645	41140	20	1	0	Fig.3

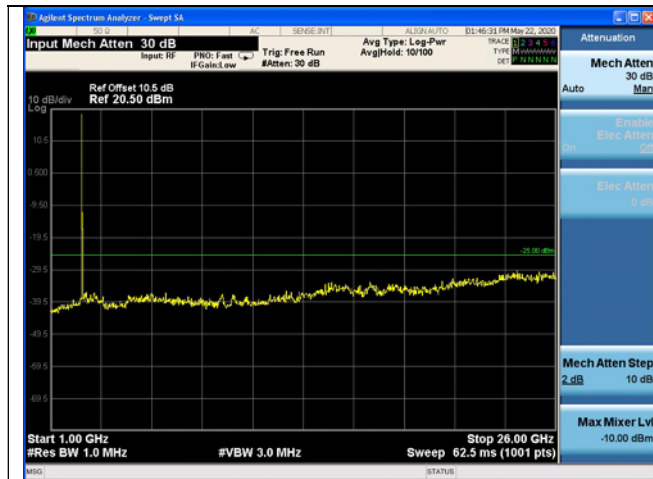


Fig.1



Fig.2



Fig.3

5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
41	2557.5	40265	5	1	0	Fig.1
				25	0	Fig.2
	2652.5	41215		1	24	Fig.3
				25	0	Fig.4
	2560	40290	10	1	0	Fig.5
				50	0	Fig.6
	2650	41190		1	49	Fig.7
				50	0	Fig.8
	2562.5	40315	15	1	0	Fig.9
				75	0	Fig.10
	2647.5	41165		1	74	Fig.11
				75	0	Fig.12
	2565	40340	20	1	0	Fig.13
				100	0	Fig.14
	2645	41140		1	99	Fig.15
				100	0	Fig.16

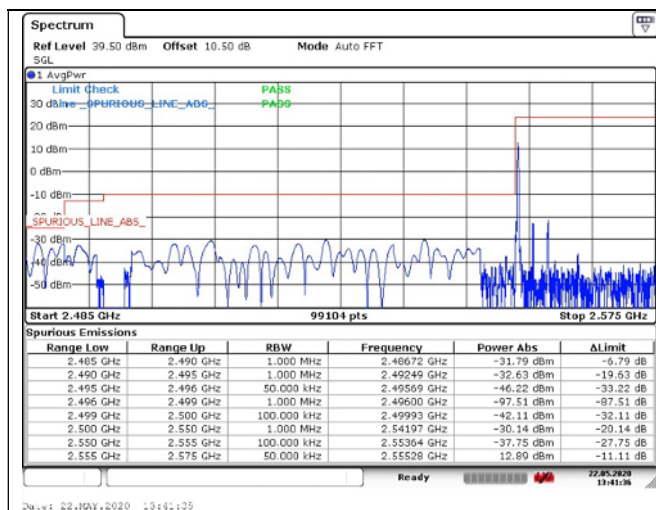


Fig.1

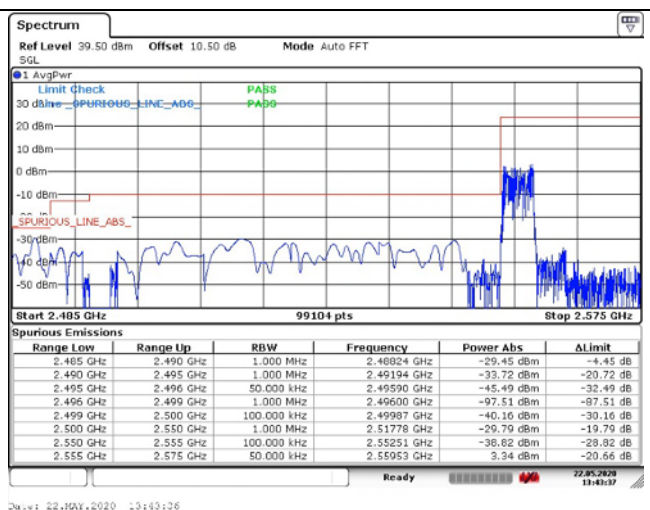


Fig.2

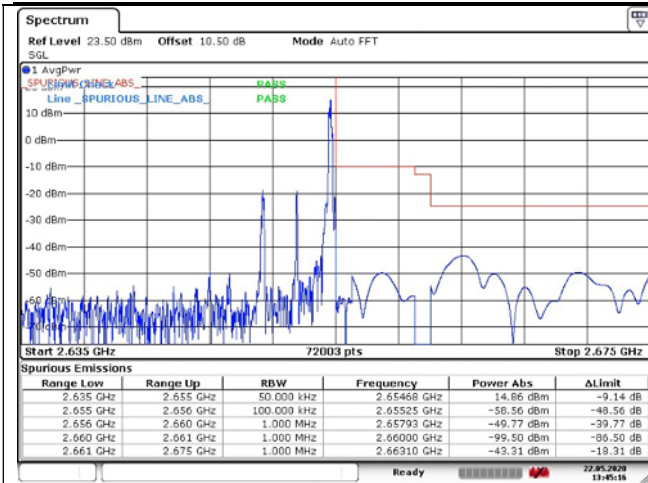


Fig.3

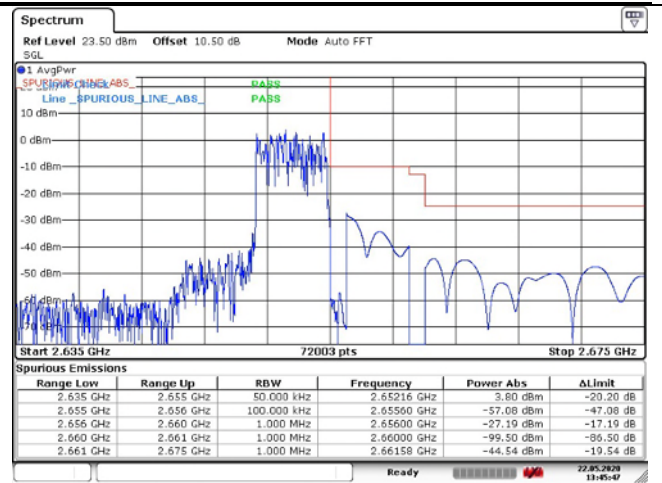


Fig.4

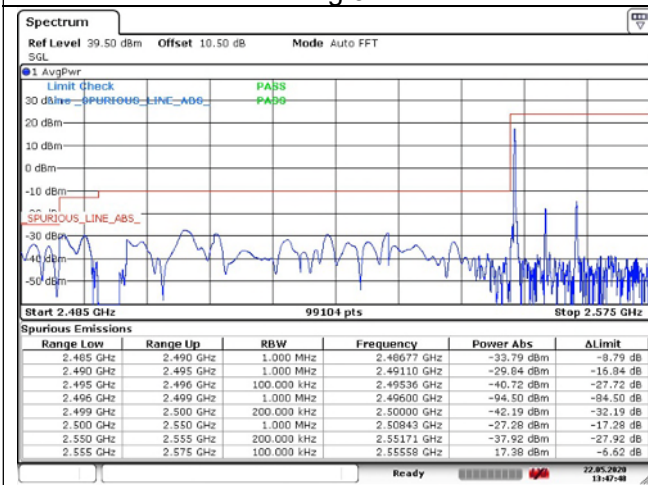


Fig.5

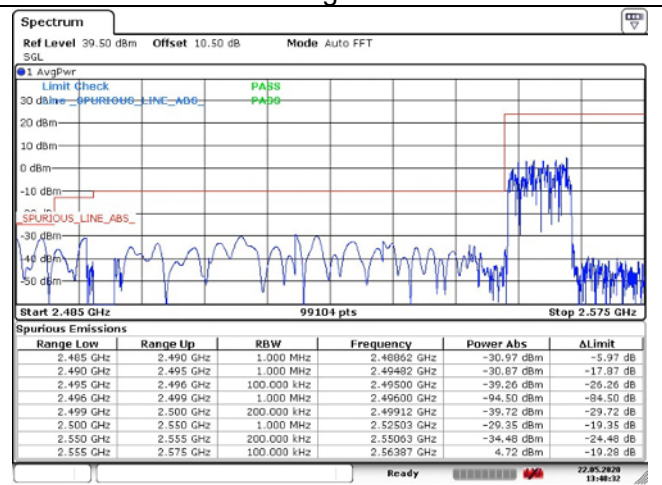


Fig.6

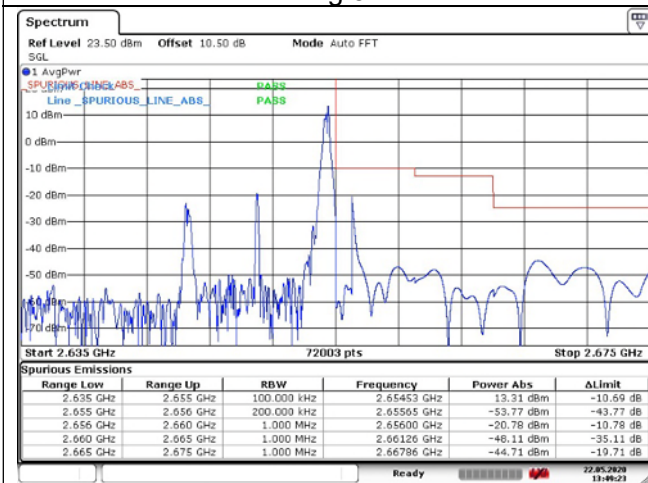


Fig.7

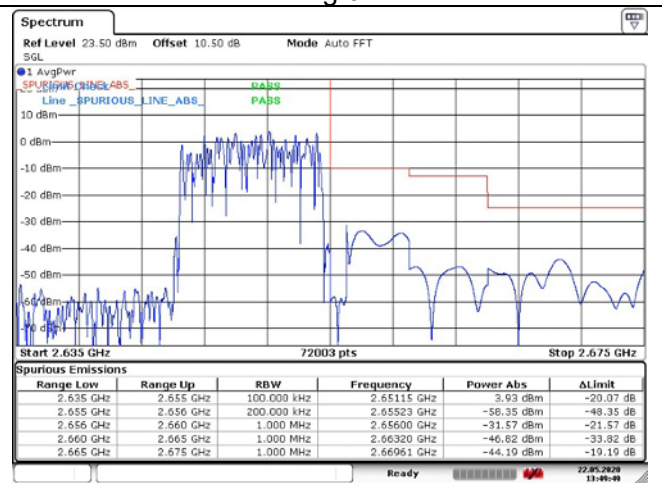
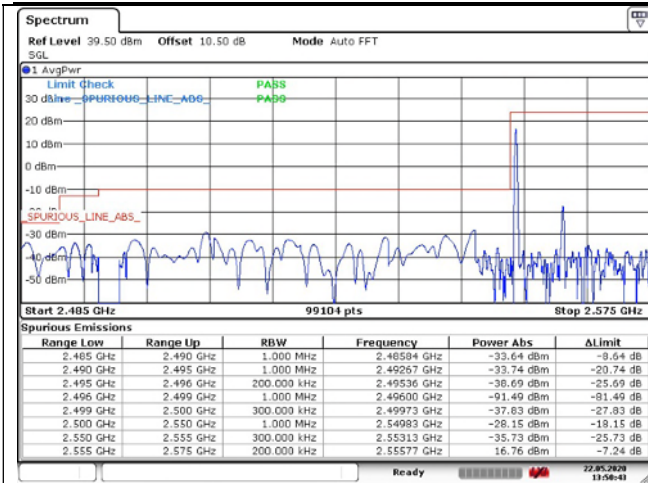
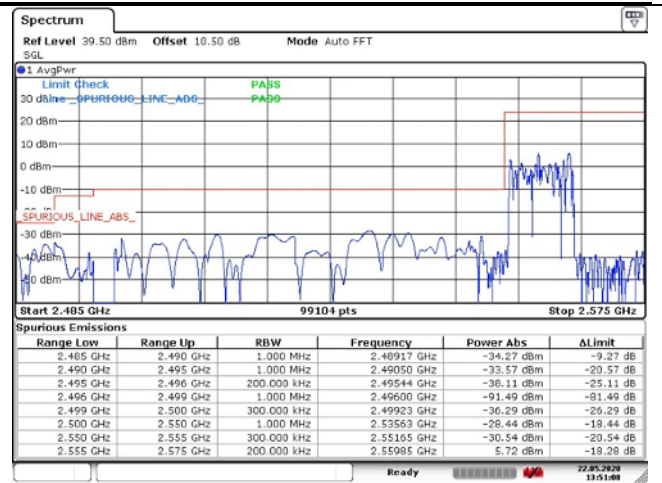


Fig.8



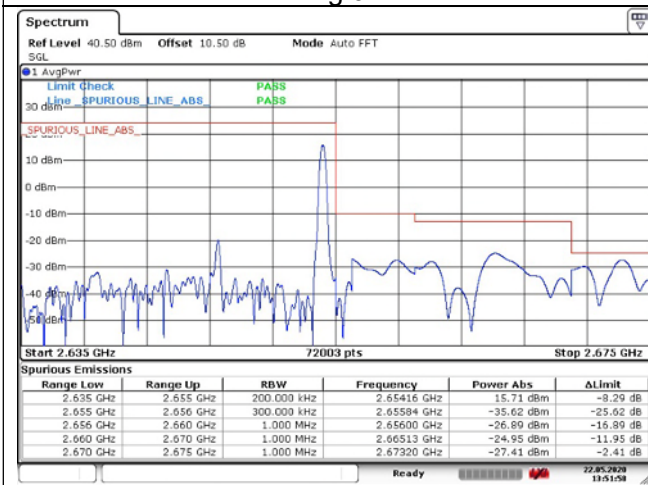
Date: 22.MAY.2020 13:50:63

Fig.9



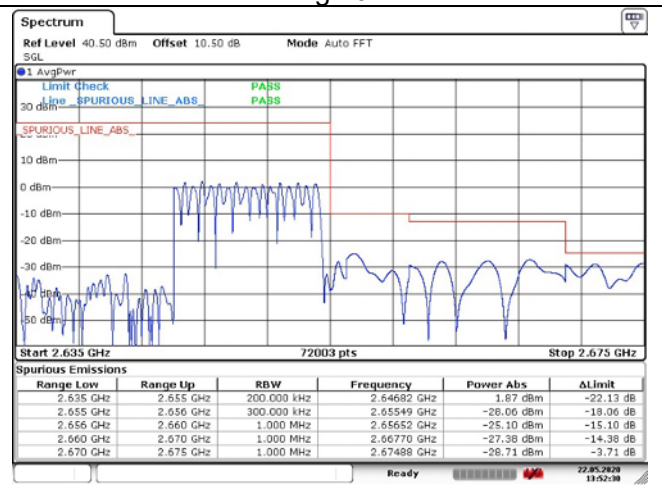
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Fig.10



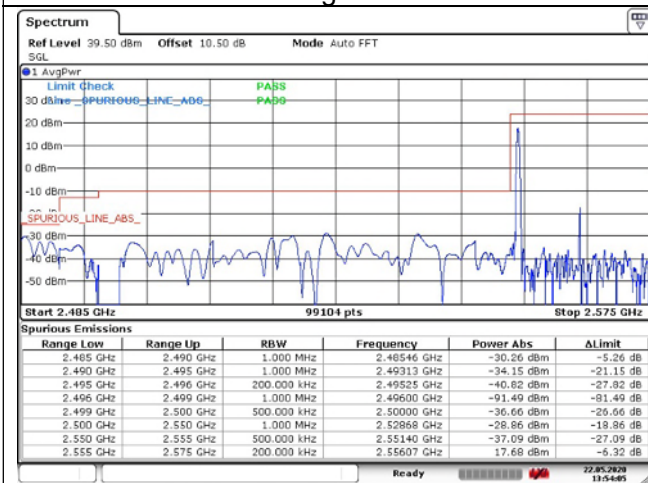
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Fig.11



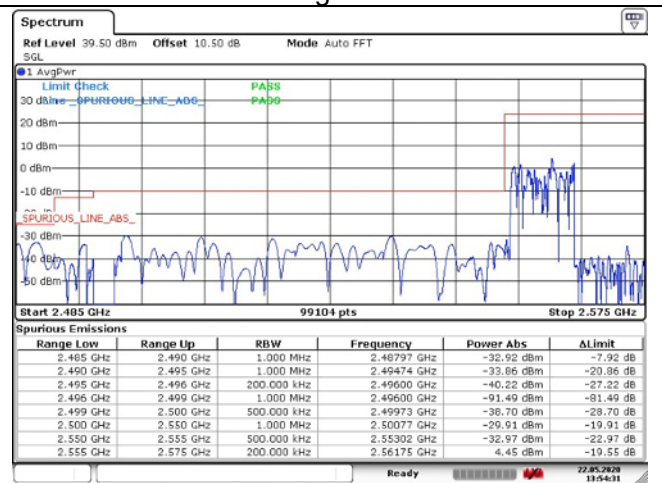
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Fig.12



Date: 22.MAY.2020 13:54:04

Fig.13



Date: 22.MAY.2020 13:54:01

Fig.14

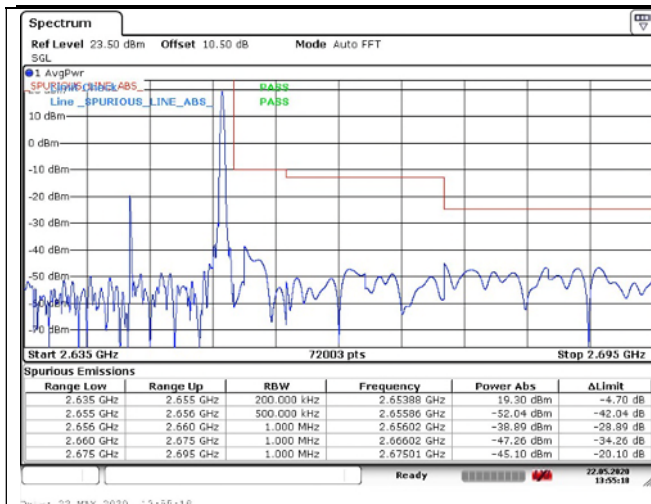


Fig.15

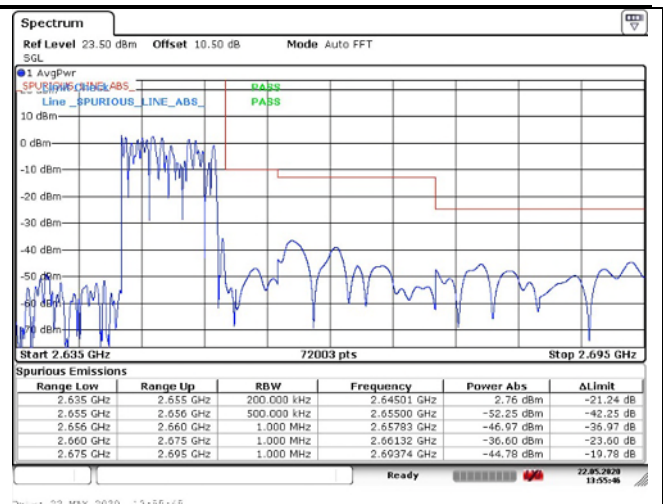


Fig.16

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band5Low Channel			
		5M	10M	15M	20M
-20	NV	-0.021	-0.012	-0.064	-0.057
-10	NV	-0.046	-0.066	0.030	0.060
0	NV	0.015	-0.068	0.054	-0.040
+10	NV	0.004	-0.003	-0.015	-0.076
+20	NV	0.000	0.000	0.000	0.000
+30	NV	0.013	0.029	0.042	0.072
+40	NV	-0.037	0.048	-0.040	0.042
+50	NV	-0.026	-0.038	-0.076	-0.031
+55	NV	0.038	-0.063	-0.009	-0.051
+20	LV	-0.008	0.014	-0.080	0.028
+20	HV	0.019	0.012	-0.028	-0.028

Temperature(°C)	Voltage	Test Result (ppm) Band5High Channel			
		5M	10M	15M	20M
-20	NV	-0.005	-0.041	0.055	0.074
-10	NV	-0.006	0.078	-0.037	0.079
0	NV	0.011	0.072	0.047	-0.070
+10	NV	-0.075	0.042	-0.014	0.028
+20	NV	0.000	0.000	0.000	0.000
+30	NV	-0.005	-0.041	0.055	0.074
+40	NV	-0.006	0.078	-0.037	0.079
+50	NV	0.011	0.072	0.047	-0.070
+55	NV	-0.075	0.042	-0.014	0.028
+20	LV	0.003	-0.067	-0.033	-0.037
+20	HV	0.007	0.055	-0.059	-0.002

APPENDIX B – TEST DATA OF RADIATED EMISSION

The measurement results are obtained as described below:

Peak EIRP = P_{mea} + P_{ca} Cable loss+ G_a Antenna Gain

Sample calculation: (22.32 dBm) = (17.52 dBm) + (-3.8 dB) + (8.6 dB), the corresponding frequency is 1851.5MHz.

LTE band 5

Test result:

band	Modulation	BW (MHz)	Channel	RB/ RB offset	EIRP/ERP (dBm)	EIRP/ERP (W)
Band5	QPSK	1.4	20407	1#0	22.92	0.196
Band5	QPSK	1.4	20525	1#0	22.93	0.196
Band5	QPSK	1.4	20643	1#0	22.39	0.173
Band5	16QAM	1.4	20407	1#0	21.34	0.136
Band5	16QAM	1.4	20525	1#0	21.51	0.141
Band5	16QAM	1.4	20643	1#0	21.31	0.135
Band5	64QAM	1.4	20407	1#0	20.86	0.122
Band5	64QAM	1.4	20525	1#0	21.38	0.138
Band5	64QAM	1.4	20643	1#0	21.74	0.149
Band5	QPSK	3	20415	1#0	22.24	0.167
Band5	QPSK	3	20525	1#0	22.91	0.195
Band5	QPSK	3	20635	1#0	22.14	0.164
Band5	16QAM	3	20415	1#0	21.73	0.149
Band5	16QAM	3	20525	1#0	21.02	0.126
Band5	16QAM	3	20635	1#0	21.35	0.136
Band5	64QAM	3	20415	1#0	21.25	0.133
Band5	64QAM	3	20525	1#0	21.71	0.148
Band5	64QAM	3	20635	1#0	20.93	0.124
Band5	QPSK	5	20425	1#0	22.35	0.172
Band5	QPSK	5	20525	1#0	22.73	0.187
Band5	QPSK	5	20625	1#0	22.56	0.180
Band5	16QAM	5	20425	1#0	21.78	0.151
Band5	16QAM	5	20525	1#0	20.91	0.123
Band5	16QAM	5	20625	1#0	21.48	0.141
Band5	64QAM	5	20425	1#0	21.04	0.127
Band5	64QAM	5	20525	1#0	21.06	0.128
Band5	64QAM	5	20625	1#0	21.49	0.141
Band5	QPSK	10	20450	1#0	23.04	0.201
Band5	QPSK	10	20525	1#0	22.86	0.193
Band5	QPSK	10	20600	1#0	22.54	0.179
Band5	16QAM	10	20450	1#0	21.76	0.150
Band5	16QAM	10	20525	1#0	21.97	0.157
Band5	16QAM	10	20600	1#0	21.35	0.137
Band5	64QAM	10	20450	1#0	21.53	0.142
Band5	64QAM	10	20525	1#0	20.92	0.124
Band5	64QAM	10	20600	1#0	21.09	0.129

Test result:

Channel 20450

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.00	-53.10	-13	Vertical
1666.37	-51.46	-13	Vertical
2536.17	-43.95	-13	Vertical
2576.53	-44.32	-13	Vertical
8960.82	-39.07	-13	Vertical
9971.77	-36.53	-13	Vertical

Channel 20525

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1650.47	-52.84	-13	Vertical
1666.46	-50.93	-13	Vertical
2535.13	-44.53	-13	Vertical
2577.73	-43.91	-13	Vertical
8964.71	-39.92	-13	Vertical
9970.94	-36.71	-13	Vertical

Channel 20600

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1650.42	-52.86	-13	Vertical
1664.92	-51.70	-13	Vertical
2533.74	-44.48	-13	Vertical
2578.72	-43.79	-13	Vertical
8962.62	-39.83	-13	Vertical
9970.45	-36.07	-13	Vertical

LTE band 40

Test result:

band	Modulation	BW (MHz)	Channel	RB/ RB offset	EIRP/ERP (dBm)	EIRP/ERP (W)
Band40	QPSK	5	38725	1#0	21.55	0.143
Band40	QPSK	5	38750	1#0	22.28	0.169
Band40	QPSK	5	38775	1#0	21.38	0.137
Band40	16QAM	5	38725	1#0	20.57	0.114
Band40	16QAM	5	38750	1#0	20.71	0.118
Band40	16QAM	5	38775	1#0	20.93	0.124
Band40	64QAM	5	38725	1#0	21.25	0.133
Band40	64QAM	5	38750	1#0	20.72	0.118
Band40	64QAM	5	38775	1#0	20.26	0.106
Band40	QPSK	5	39175	1#0	22.07	0.161
Band40	QPSK	5	39200	1#0	22.58	0.181
Band40	QPSK	5	39225	1#0	21.53	0.142
Band40	16QAM	5	39175	1#0	21.19	0.132
Band40	16QAM	5	39200	1#0	20.91	0.123
Band40	16QAM	5	39225	1#0	21.37	0.137
Band40	64QAM	5	39175	1#0	21.01	0.126
Band40	64QAM	5	39200	1#0	21.32	0.136
Band40	64QAM	5	39225	1#0	20.97	0.125
Band40	QPSK	10	38750	1#0	21.55	0.143
Band40	16QAM	10	38750	1#0	21.39	0.138
Band40	64QAM	10	38750	1#0	21.14	0.130
Band40	QPSK	10	39200	1#0	22.26	0.168
Band40	16QAM	10	39200	1#0	21.75	0.150
Band40	64QAM	10	39200	1#0	21.68	0.147

Test result:

Channel 38725

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.97	-48.56	-13	Vertical
2778.44	-47.74	-13	Vertical
3728.23	-40.75	-13	Vertical
6676.30	-40.05	-13	Vertical
9960.03	-37.37	-13	Vertical
17821.36	-33.80	-13	Vertical

Channel 38750

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.67	-49.21	-13	Vertical
2778.23	-47.56	-13	Vertical
3727.65	-40.91	-13	Vertical
6677.20	-39.65	-13	Vertical
9960.92	-37.56	-13	Vertical
17819.65	-34.07	-13	Vertical

Channel 38775

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.10	-49.07	-13	Vertical
2780.40	-47.15	-13	Horizontal
3726.69	-41.17	-13	Vertical
6677.37	-39.32	-13	Vertical
9960.23	-37.21	-13	Vertical
17818.38	-34.01	-13	Vertical

Channel 39175

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2461.48	-48.94	-13	Vertical
2781.91	-47.17	-13	Vertical
3727.24	-40.72	-13	Vertical
6678.25	-40.00	-13	Vertical
9959.92	-36.96	-13	Vertical
17819.67	-33.54	-13	Vertical

Channel 39200

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.81	-48.90	-13	Vertical
2780.29	-47.67	-13	Vertical
3724.81	-41.24	-13	Vertical
6677.55	-39.99	-13	Vertical
9961.60	-37.34	-13	Vertical
17822.11	-33.49	-13	Vertical

Channel 39225

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.81	-49.29	-13	Vertical
2781.30	-47.84	-13	Horizontal
3727.64	-41.00	-13	Vertical
6676.24	-40.11	-13	Vertical
9960.95	-37.67	-13	Vertical
17821.21	-33.77	-13	Vertical

LTE band 41

Test result:

band	Modulation	BW (MHz)	Channel	RB/ RB offset	EIRP/ERP (dBm)	EIRP/ERP (W)
Band41	QPSK	5	40265	1#0	21.67	0.147
Band41	QPSK	5	40740	1#0	21.66	0.147
Band41	QPSK	5	41215	1#0	21.57	0.144
Band41	16QAM	5	40265	1#0	20.62	0.115
Band41	16QAM	5	40740	1#0	21.46	0.140
Band41	16QAM	5	41215	1#0	21.13	0.130
Band41	64QAM	5	40265	1#0	20.34	0.108
Band41	64QAM	5	40740	1#0	21.43	0.139
Band41	64QAM	5	41215	1#0	20.27	0.106
Band41	QPSK	10	40290	1#0	21.57	0.144
Band41	QPSK	10	40740	1#0	22.13	0.163
Band41	QPSK	10	41190	1#0	21.66	0.147
Band41	16QAM	10	40290	1#0	20.63	0.115
Band41	16QAM	10	40740	1#0	20.57	0.114
Band41	16QAM	10	41190	1#0	21.03	0.127
Band41	64QAM	10	40290	1#0	20.76	0.119
Band41	64QAM	10	40740	1#0	21.37	0.137
Band41	64QAM	10	41190	1#0	21.26	0.134
Band41	QPSK	15	40315	1#0	22.35	0.172
Band41	QPSK	15	40740	1#0	22.08	0.162
Band41	QPSK	15	41165	1#0	22.33	0.171
Band41	16QAM	15	40315	1#0	20.81	0.121
Band41	16QAM	15	40740	1#0	21.60	0.144
Band41	16QAM	15	41165	1#0	20.71	0.118
Band41	64QAM	15	40315	1#0	20.43	0.110
Band41	64QAM	15	40740	1#0	20.74	0.119
Band41	64QAM	15	41165	1#0	20.48	0.112
Band41	QPSK	20	40340	1#0	22.40	0.174
Band41	QPSK	20	40740	1#0	22.48	0.177
Band41	QPSK	20	41140	1#0	22.19	0.166
Band41	16QAM	20	40340	1#0	20.69	0.117
Band41	16QAM	20	40740	1#0	20.76	0.119
Band41	16QAM	20	41140	1#0	20.40	0.110
Band41	64QAM	20	40340	1#0	20.64	0.116
Band41	64QAM	20	40740	1#0	21.46	0.140
Band41	64QAM	20	41140	1#0	20.88	0.122

Test result:

Channel 40340

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2457.79	-48.83	-13	Vertical
2782.05	-47.81	-13	Vertical
3726.60	-40.47	-13	Vertical
6677.91	-39.42	-13	Vertical
9962.64	-36.99	-13	Vertical
17820.36	-34.38	-13	Vertical

Channel 40740

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2457.84	-49.23	-13	Vertical
2780.64	-46.89	-13	Vertical
3724.97	-40.54	-13	Vertical
6677.38	-39.46	-13	Vertical
9959.50	-37.09	-13	Vertical
17821.92	-33.71	-13	Vertical

Channel 41140

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2461.26	-49.45	-13	Vertical
2780.24	-47.56	-13	Vertical
3726.39	-40.72	-13	Vertical
6677.77	-39.19	-13	Vertical
9960.86	-37.63	-13	Vertical
17818.71	-33.75	-13	Vertical

---The end of the test report---