

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
7	2507.5	20825	15	75	0	13.516	Fig.1	13.501	Fig.2	13.463	Fig.3
7	2535	21100	15	75	0	13.508	Fig.4	13.475	Fig.5	13.498	Fig.6
7	2562.5	21375	15	75	0	13.573	Fig.7	13.582	Fig.8	13.590	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
7	2507.5	20825	15	75	0	15.48	Fig.1	15.54	Fig.2	15.18	Fig.3
7	2535	21100	15	75	0	15.21	Fig.4	15.23	Fig.5	15.43	Fig.6
7	2562.5	21375	15	75	0	15.29	Fig.7	15.60	Fig.8	15.15	Fig.9

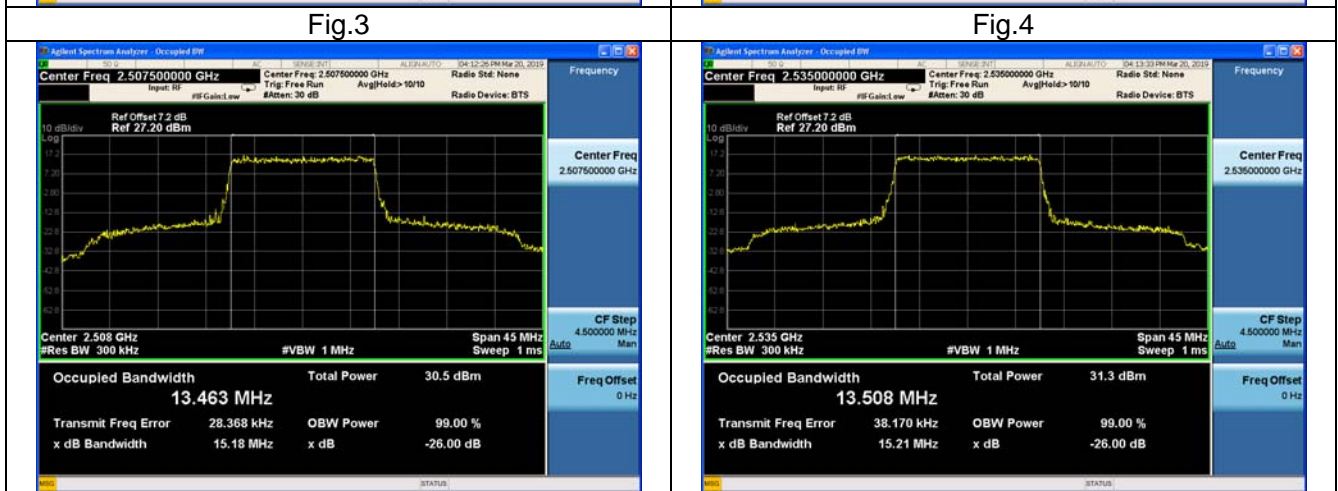
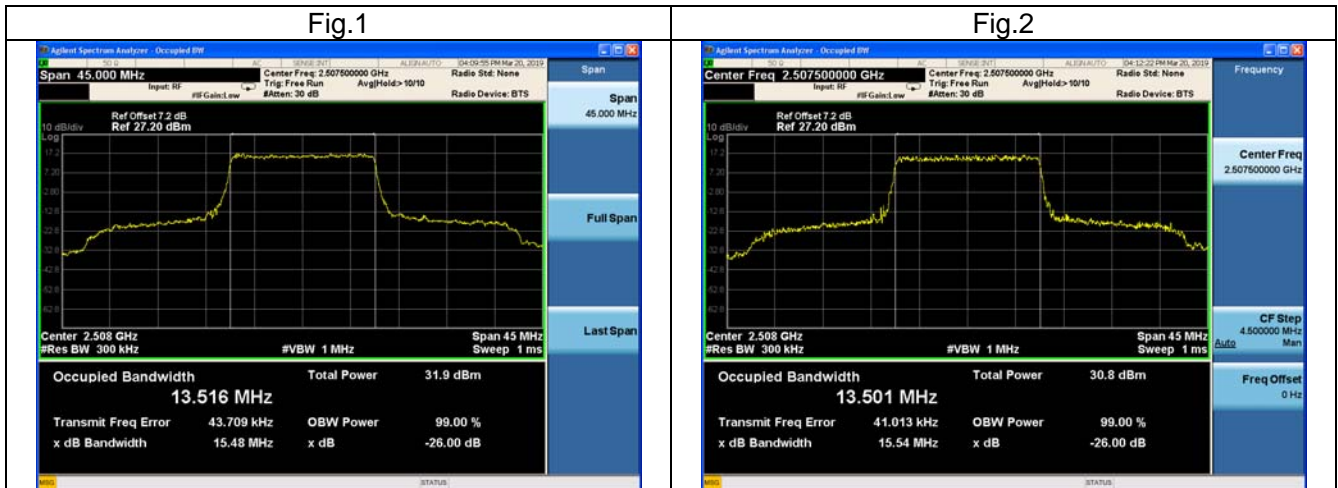


Fig.5

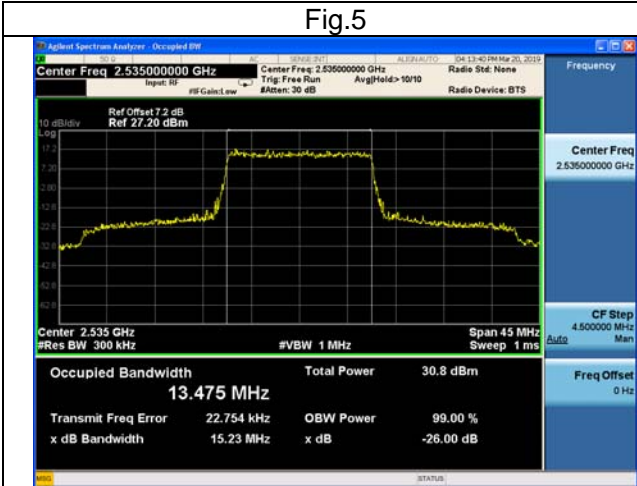


Fig.6

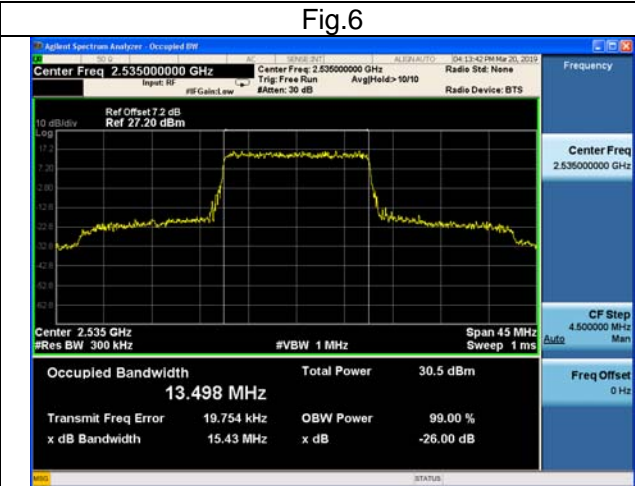


Fig.7

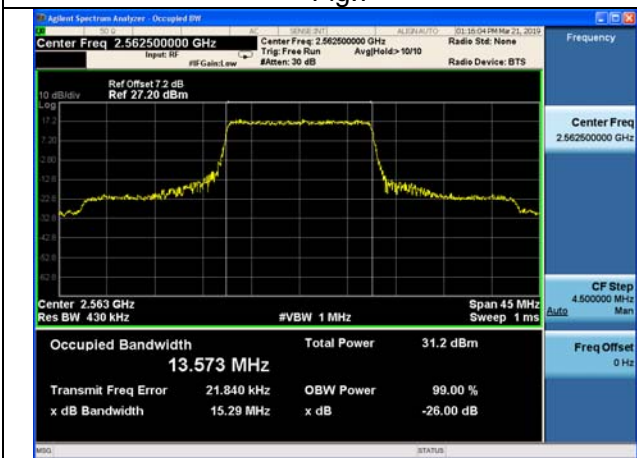


Fig.8

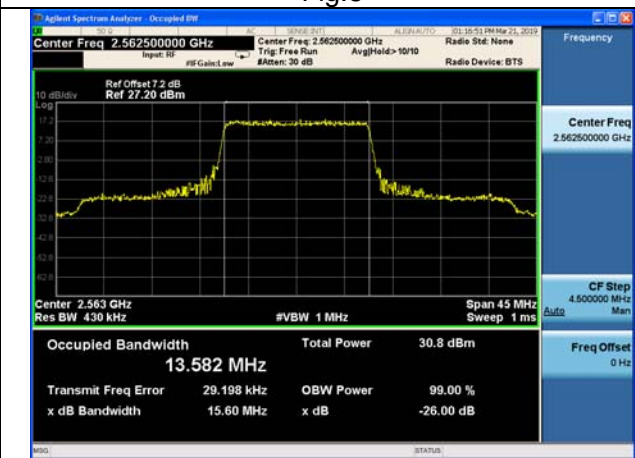
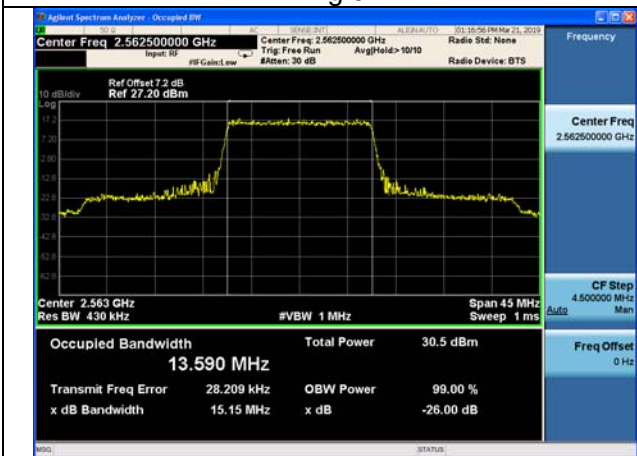


Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
7	2510	20850	20	100	0	18.146	Fig.1	18.125	Fig.2	18.100	Fig.3
7	2535	21100	20	100	0	18.143	Fig.4	18.127	Fig.5	18.068	Fig.6
7	2560	21350	20	100	0	18.135	Fig.7	18.147	Fig.8	18.103	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
7	2510	20850	20	100	0	20.79	Fig.1	20.19	Fig.2	19.94	Fig.3
7	2535	21100	20	100	0	20.35	Fig.4	20.48	Fig.5	20.20	Fig.6
7	2560	21350	20	100	0	20.46	Fig.7	20.41	Fig.8	20.12	Fig.9

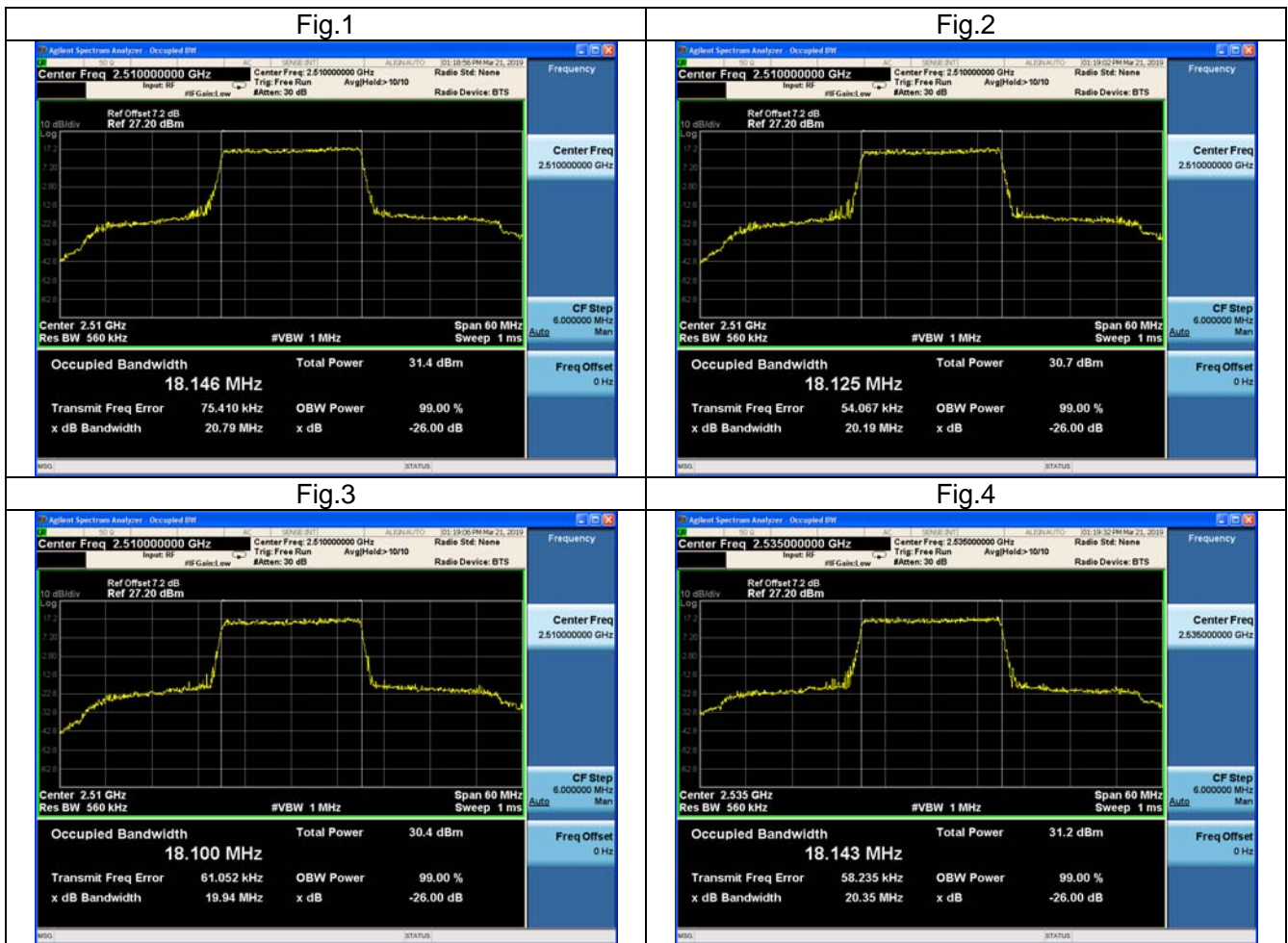


Fig.5

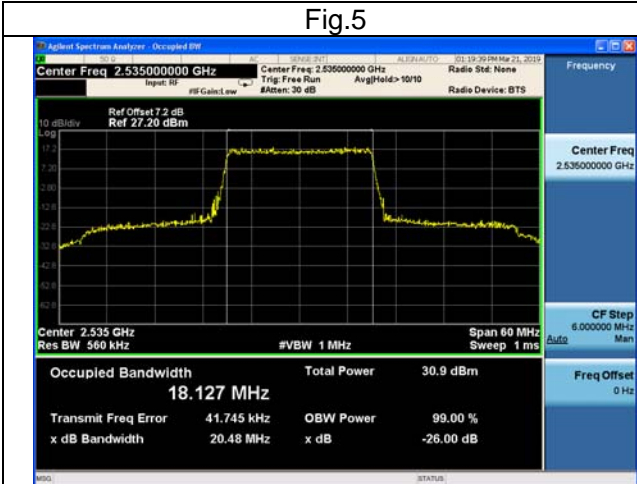


Fig.6

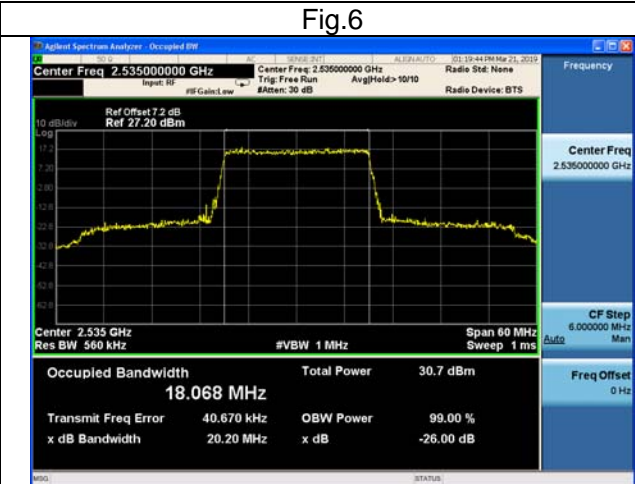


Fig.7

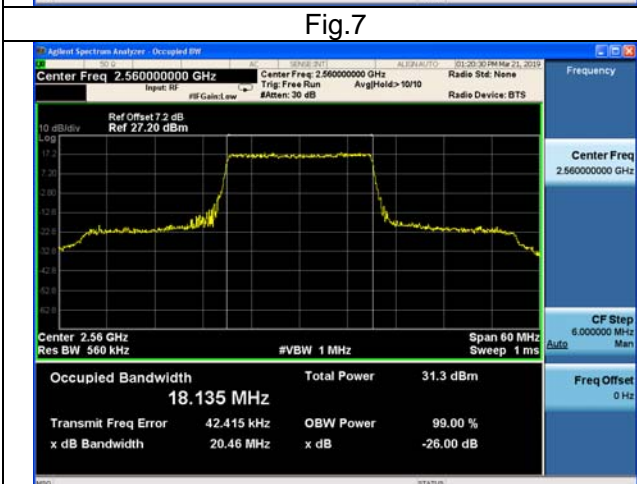


Fig.8

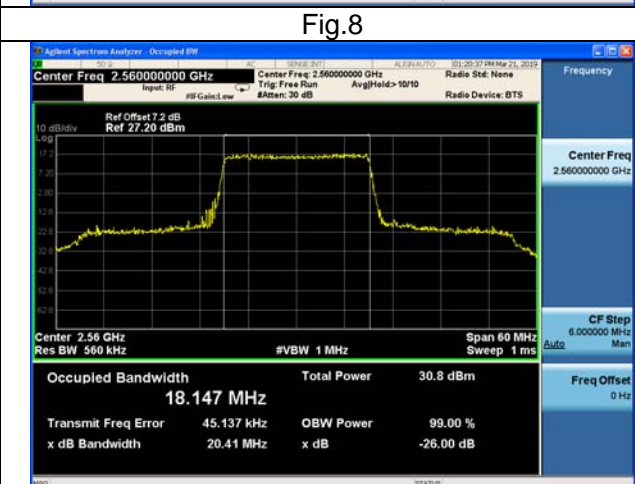
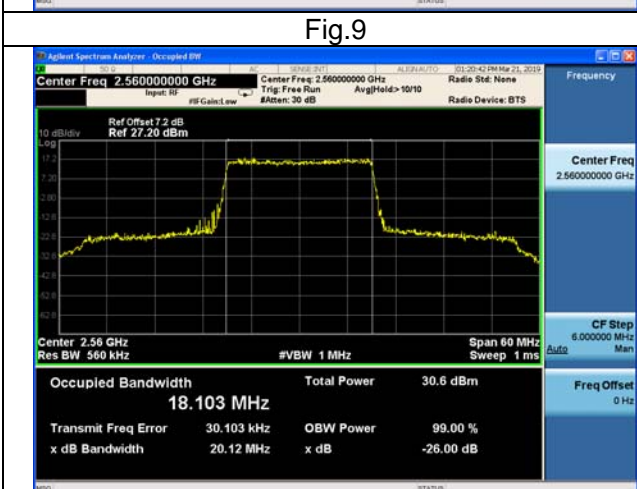
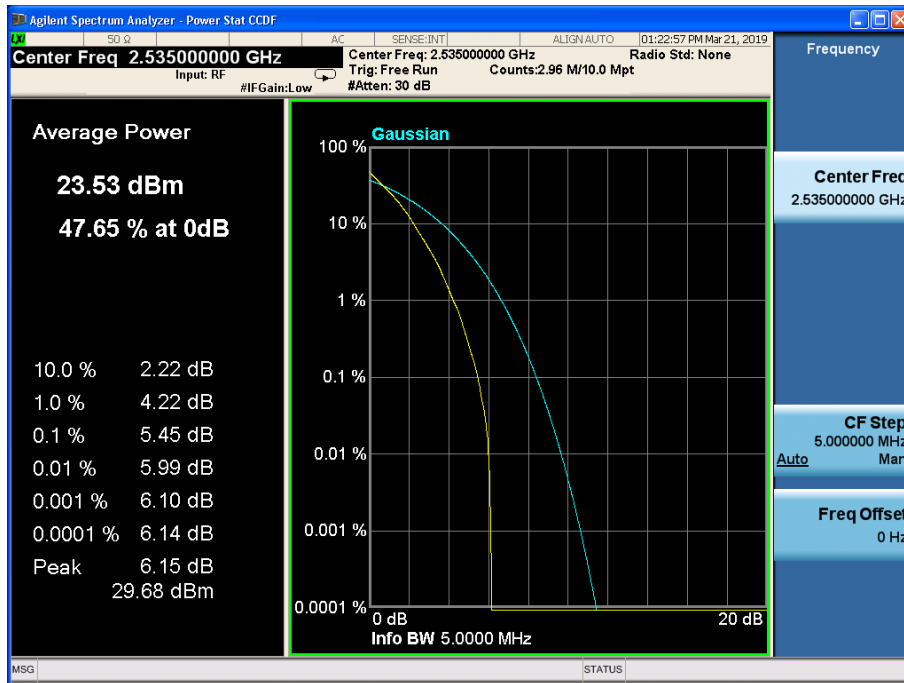


Fig.9

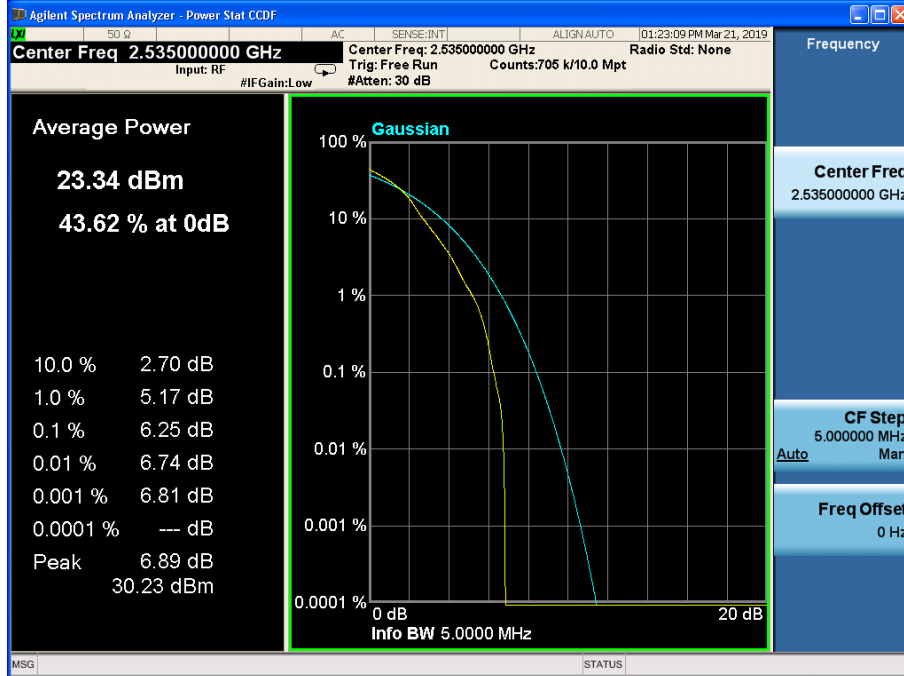


3 Peak-Average Ratio

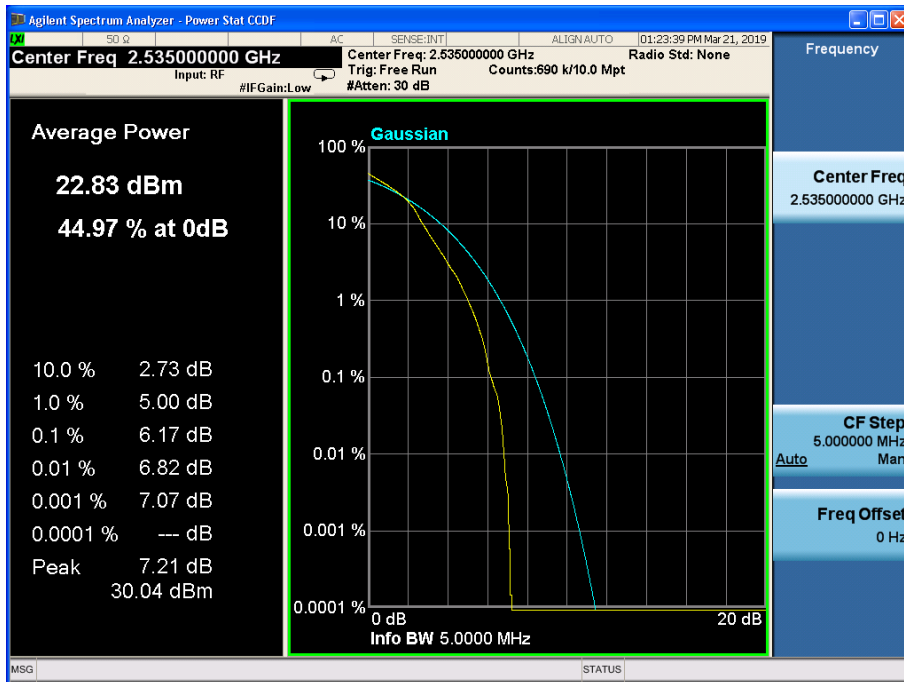
Test result:



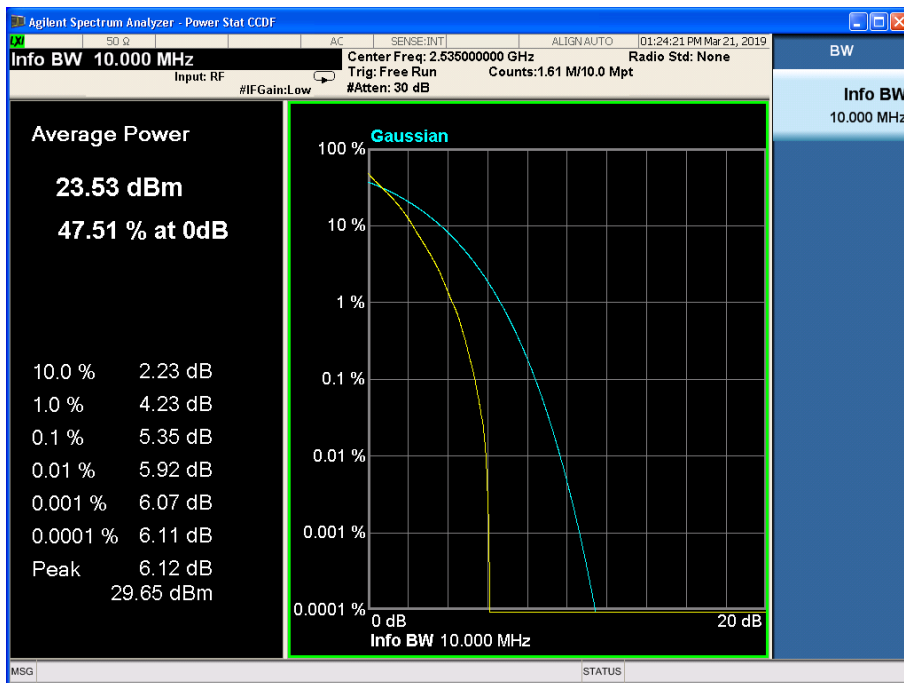
Peak-Average Ratio Plot(5MHz BW,QPSK,Band 7-mid Channel)



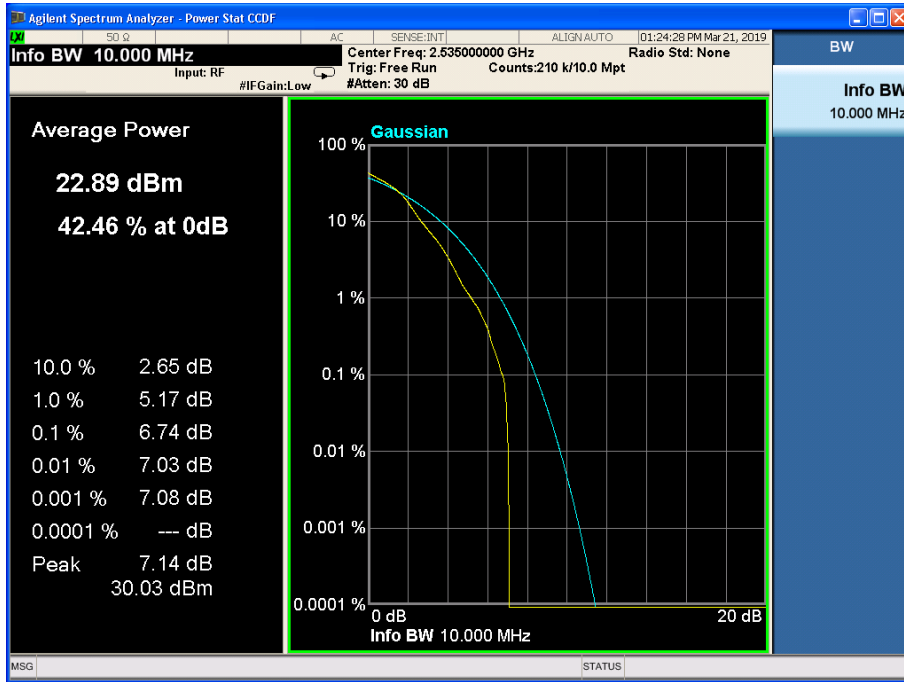
Peak-Average Ratio Plot(5MHz BW,16QAM,Band 7-mid Channel)



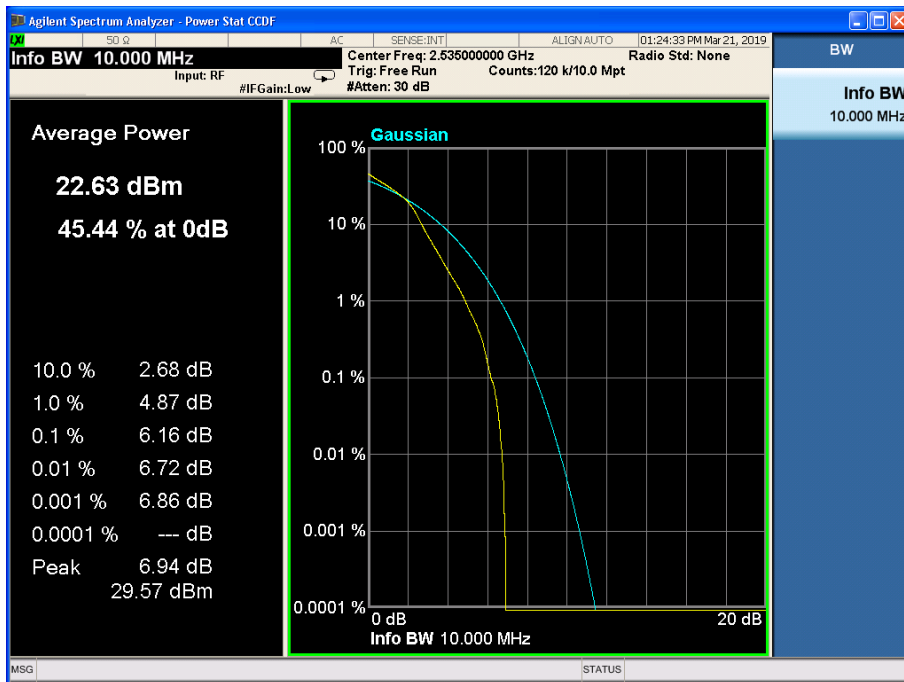
Peak-Average Ratio Plot(5MHz BW,64QAM,Band 7-mid Channel)



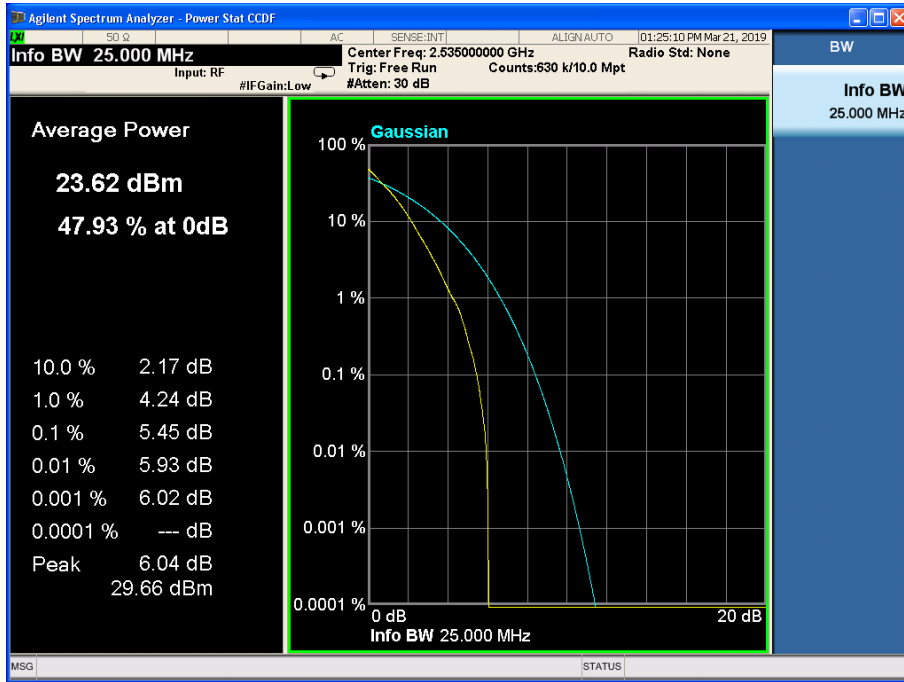
Peak-Average Ratio Plot(10MHz BW,QPSK,Band 7-mid Channel)



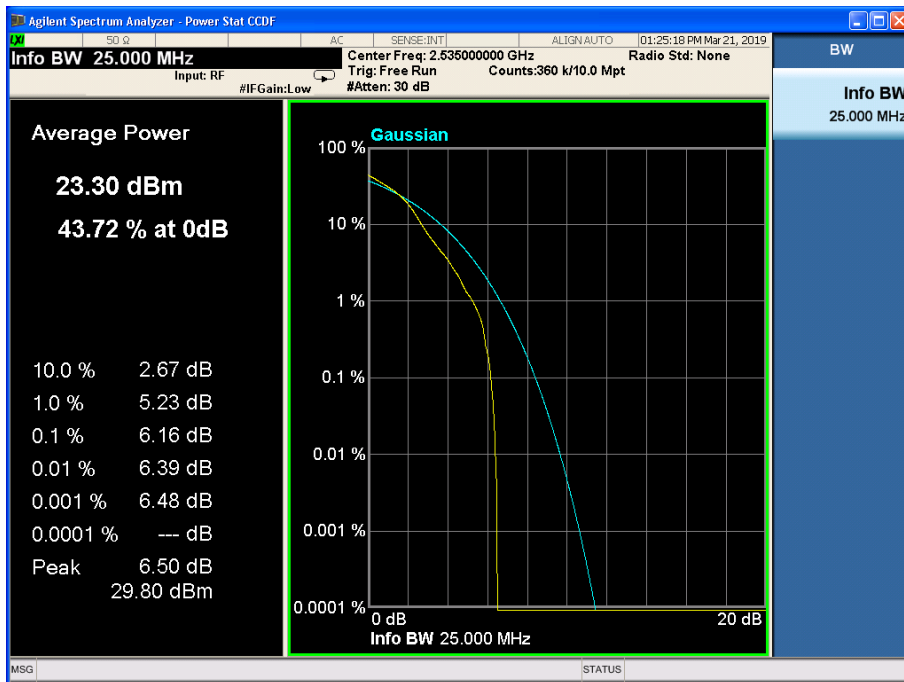
Peak-Average Ratio Plot(10MHz BW,16QAM,Band 7-mid Channel)



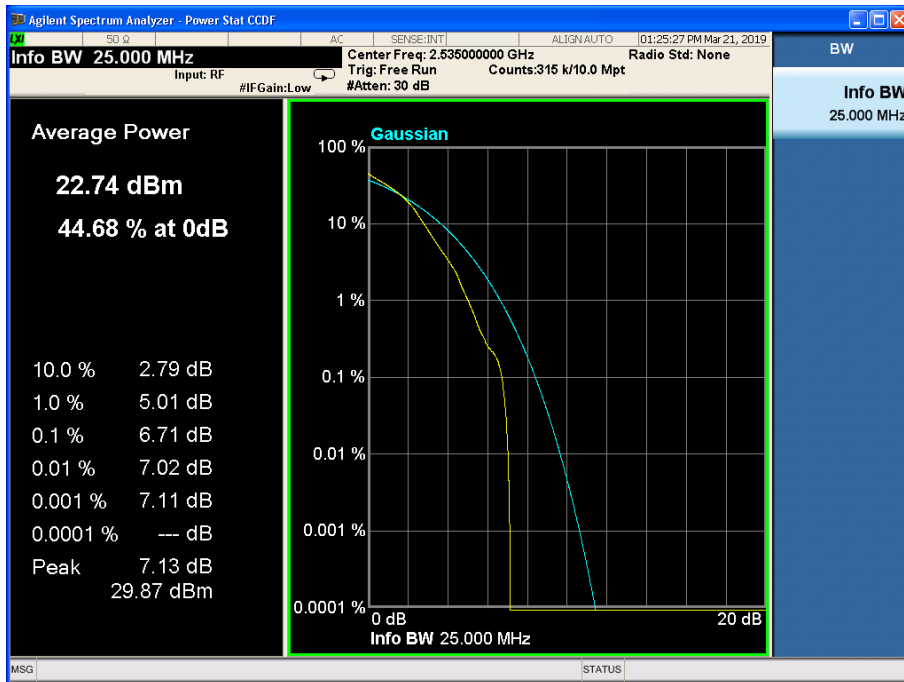
Peak-Average Ratio Plot(10MHz BW,64QAM,Band 7-mid Channel)



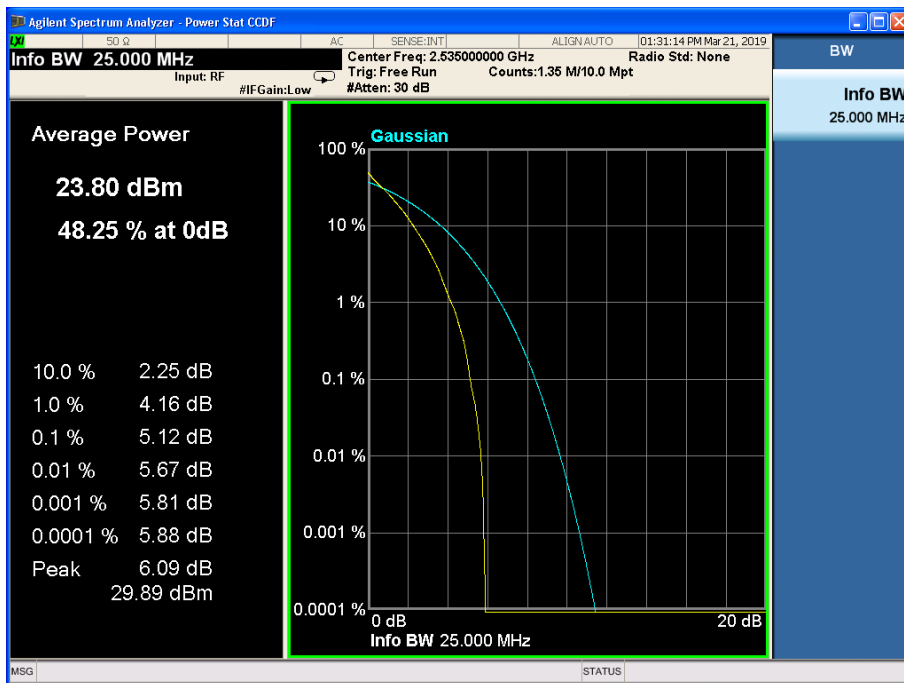
Peak-Average Ratio Plot(15MHz BW,QPSK,Band 7-mid Channel)



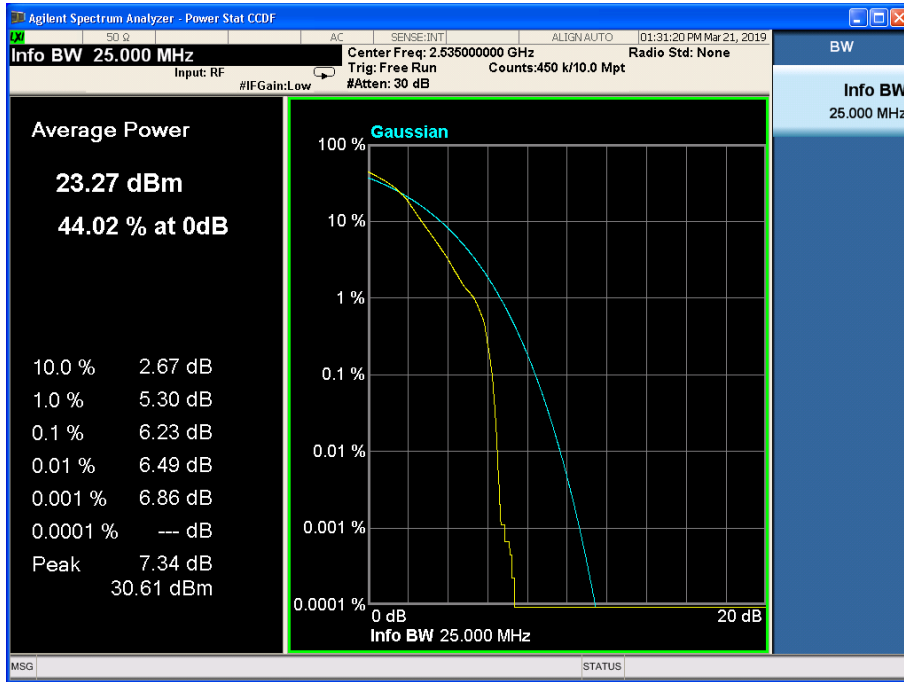
Peak-Average Ratio Plot(15MHz BW,16QAM,Band 7-mid Channel)



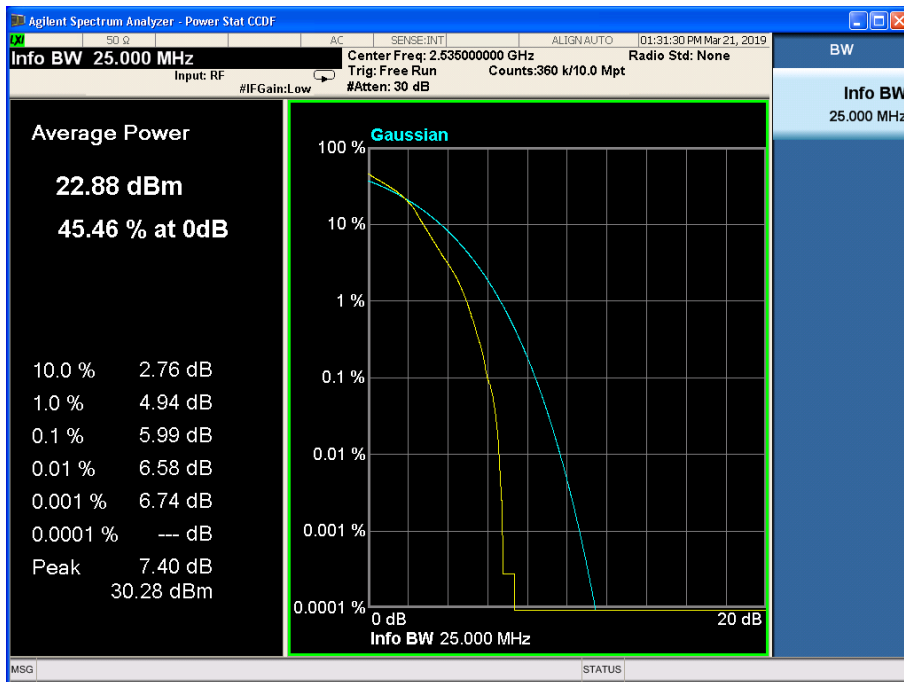
Peak-Average Ratio Plot(15MHz BW,64QAM,Band 7-mid Channel)



Peak-Average Ratio Plot(20MHz BW,QPSK,Band 7-mid Channel)



Peak-Average Ratio Plot(20MHz BW,16QAM,Band 7-mid Channel)



Peak-Average Ratio Plot(20MHz BW,64QAM,Band 7-mid Channel)

4 Spurious Emissions at antenna terminal
Test result

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
7	2510	20850	20	1	0	Fig.4

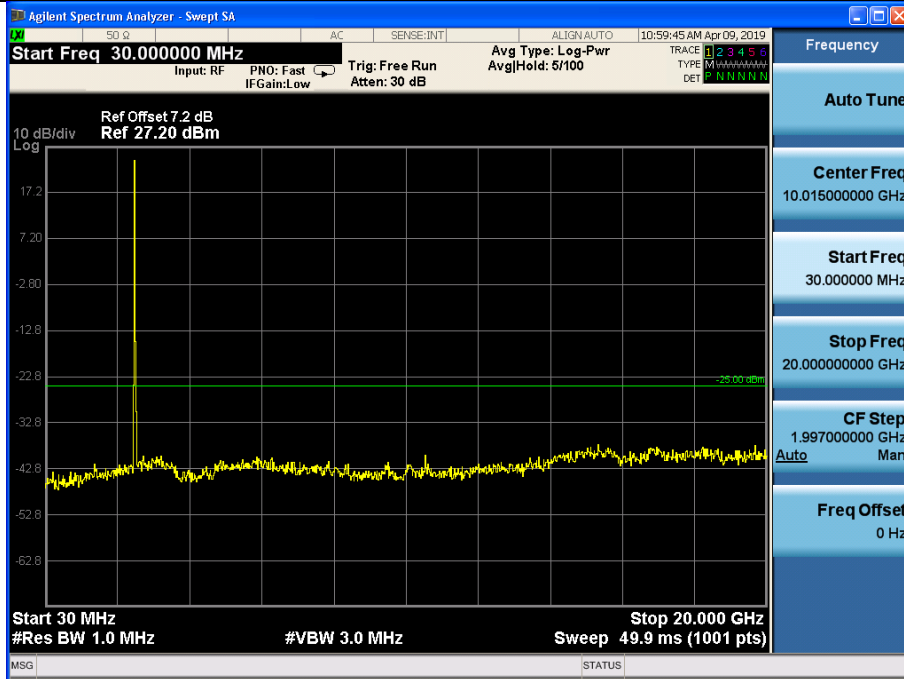


Fig.4

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
7	2535	21100	20	1	0	Fig.1

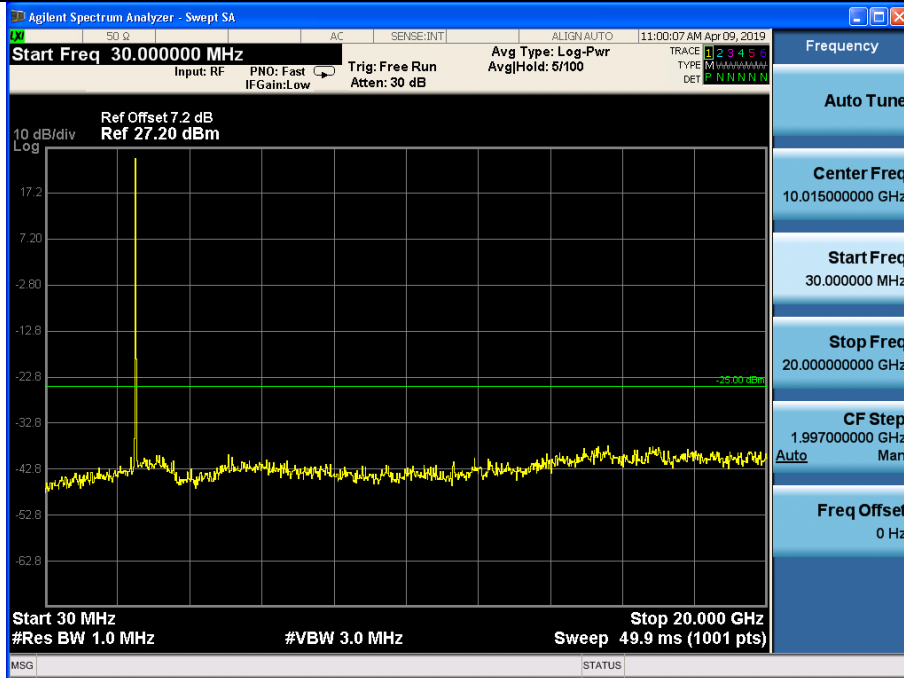


Fig.1

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
7	2560	21350	20	1	0	Fig.1

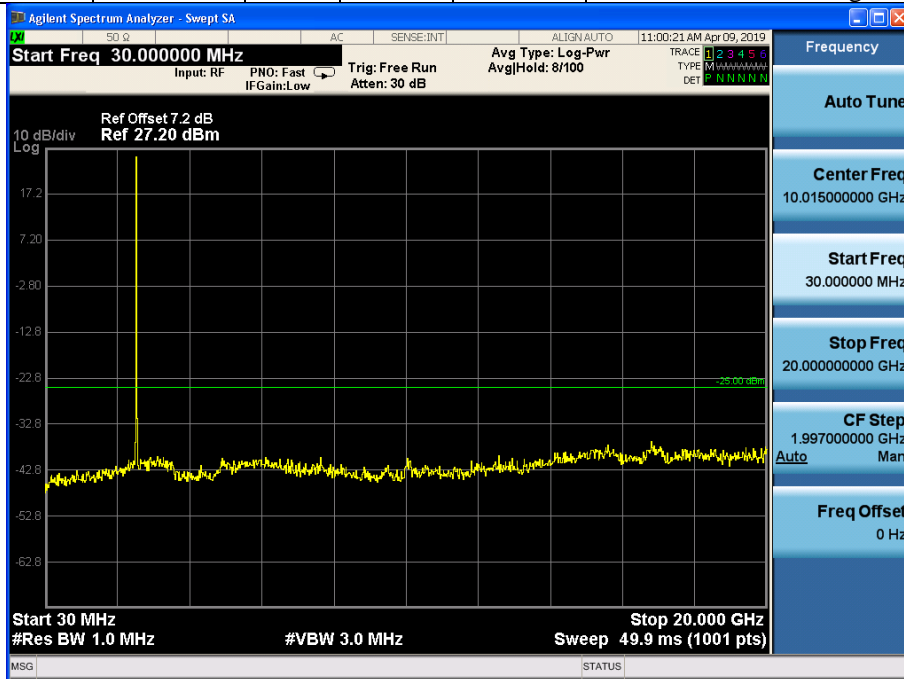
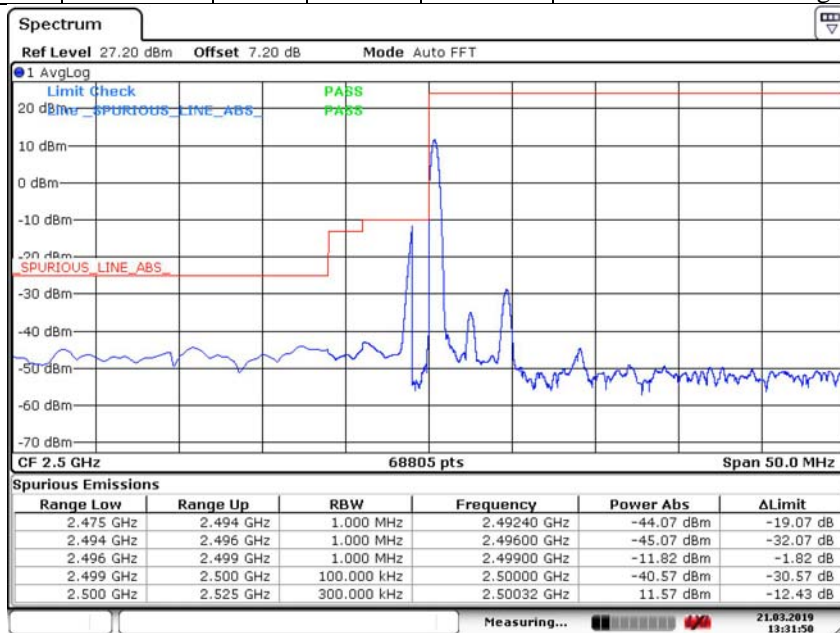


Fig.1

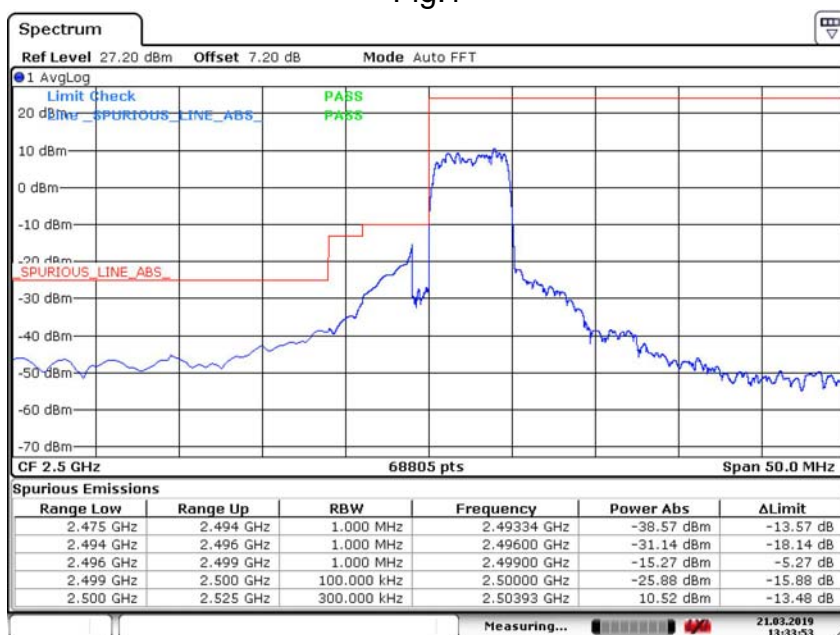
5 Band Edges Compliance
Test result

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
7	2502.5	20775	5	1	0	Fig.1
7	2502.5	20775	5	25	0	Fig.2
7	2567.5	21425	5	1	24	Fig.3
7	2567.5	21425	5	25	0	Fig.4



Date: 21.MAR.2019 13:31:49

Fig.1



Date: 21.MAR.2019 13:33:53

Fig.2

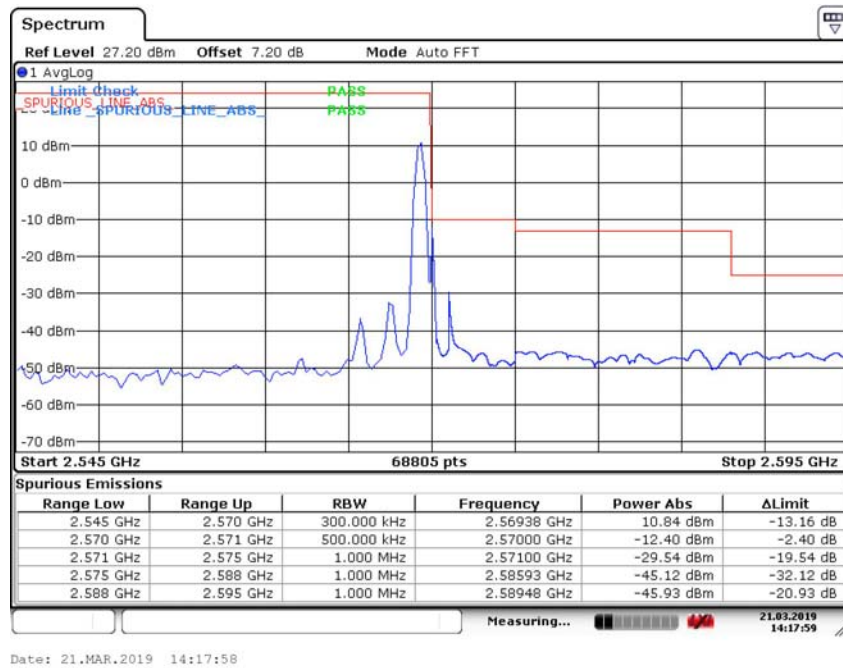


Fig.3

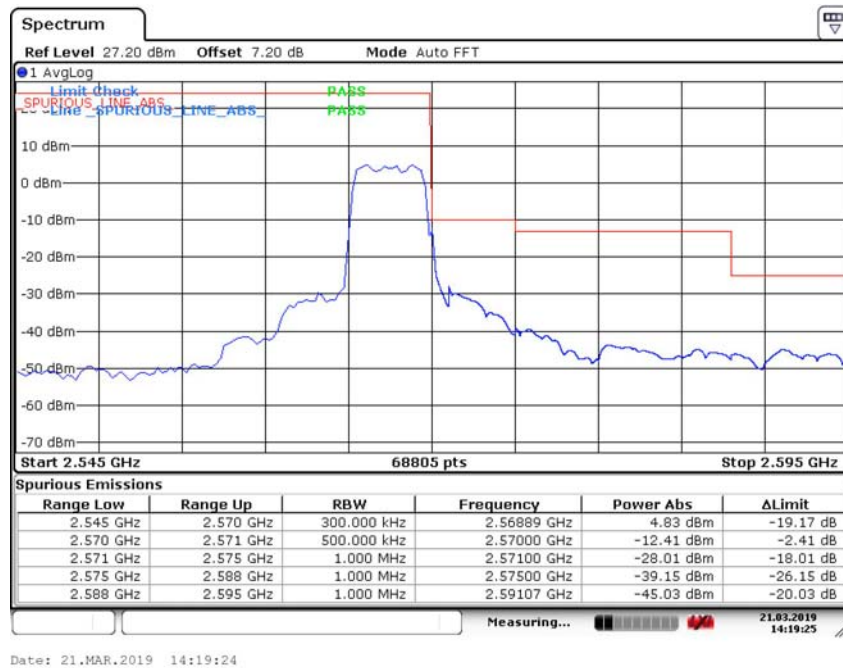


Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
7	2505	20800	10	1	0	Fig.1
7	2505	20800	10	50	0	Fig.2
7	2565	21400	10	1	49	Fig.3
7	2565	21400	10	50	0	Fig.4

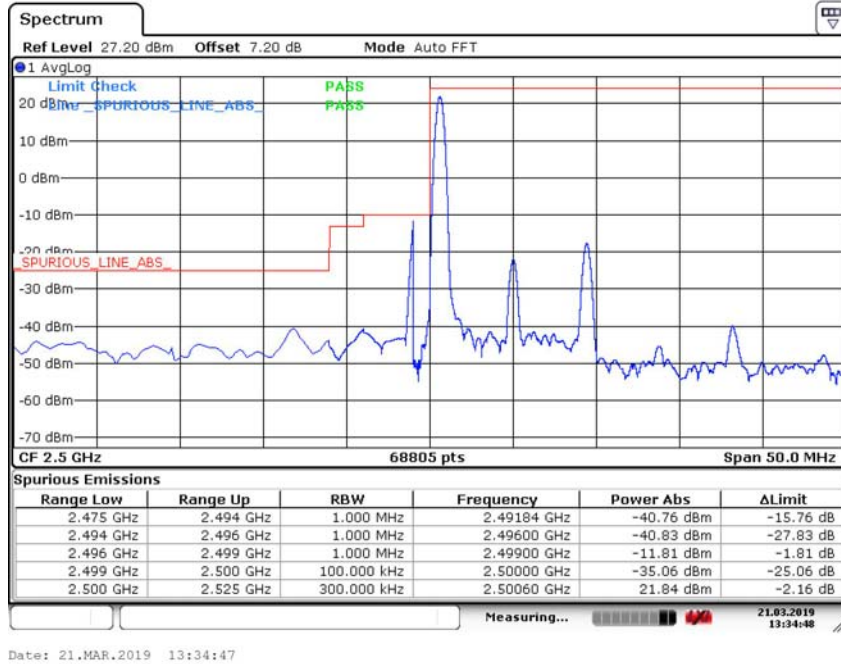


Fig.1

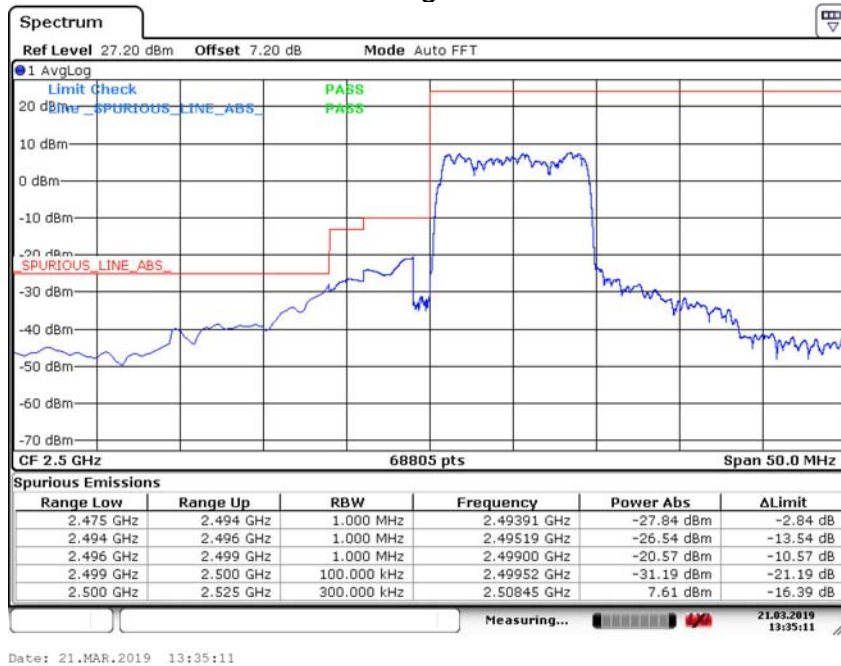


Fig.2

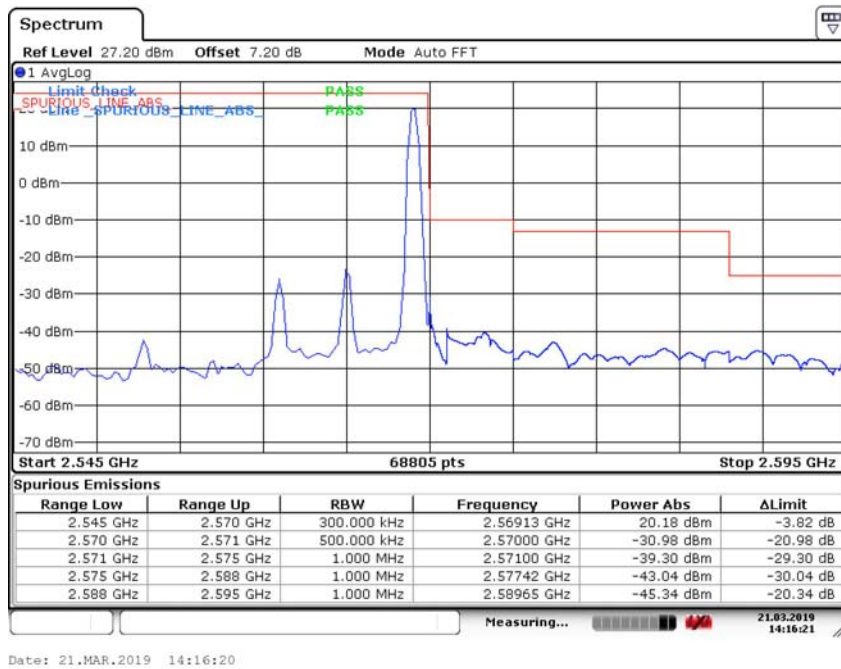


Fig.3

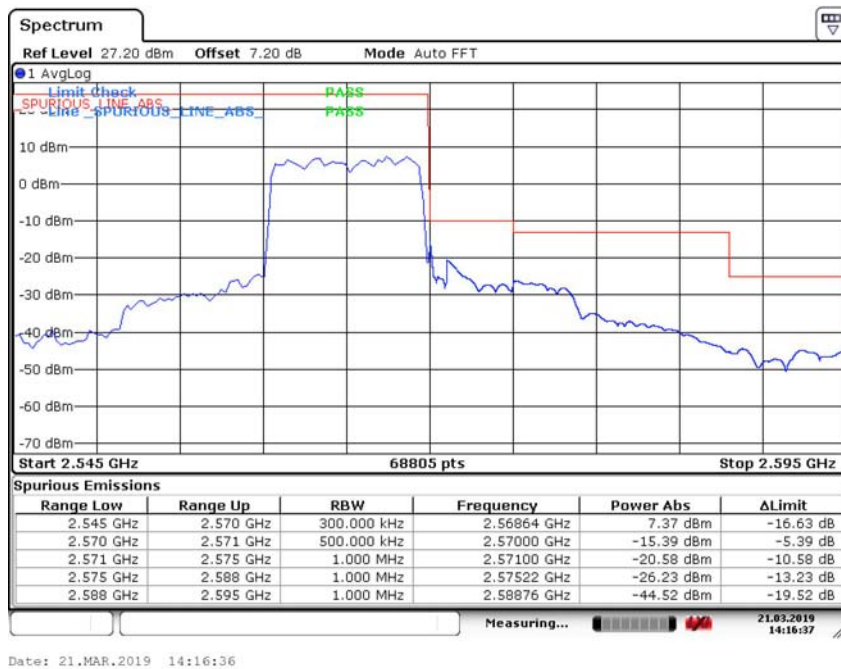


Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
7	2507.5	20825	15	1	0	Fig.1
7	2507.5	20825	15	75	0	Fig.2
7	2562.5	21375	15	1	74	Fig.3
7	2562.5	21375	15	75	0	Fig.4

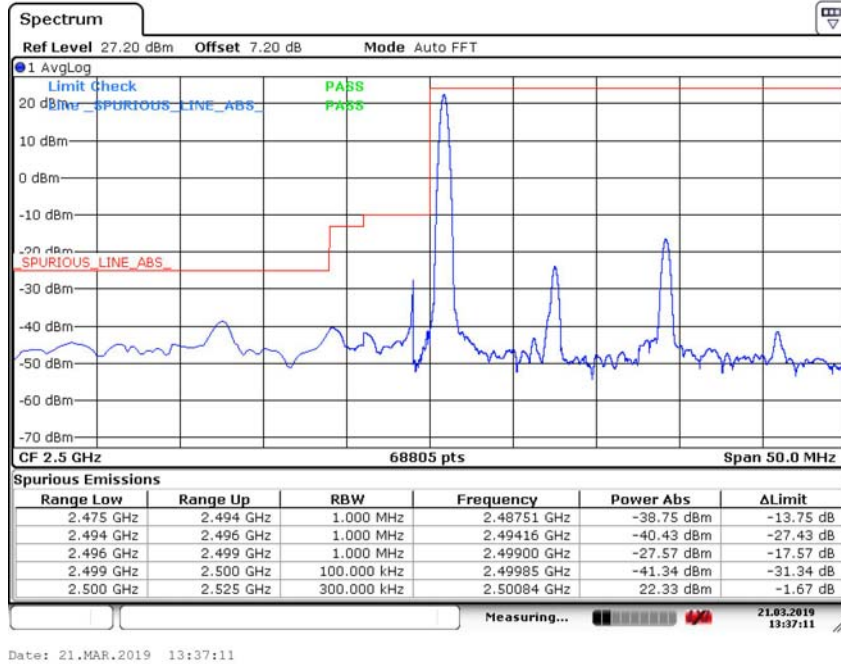


Fig.1

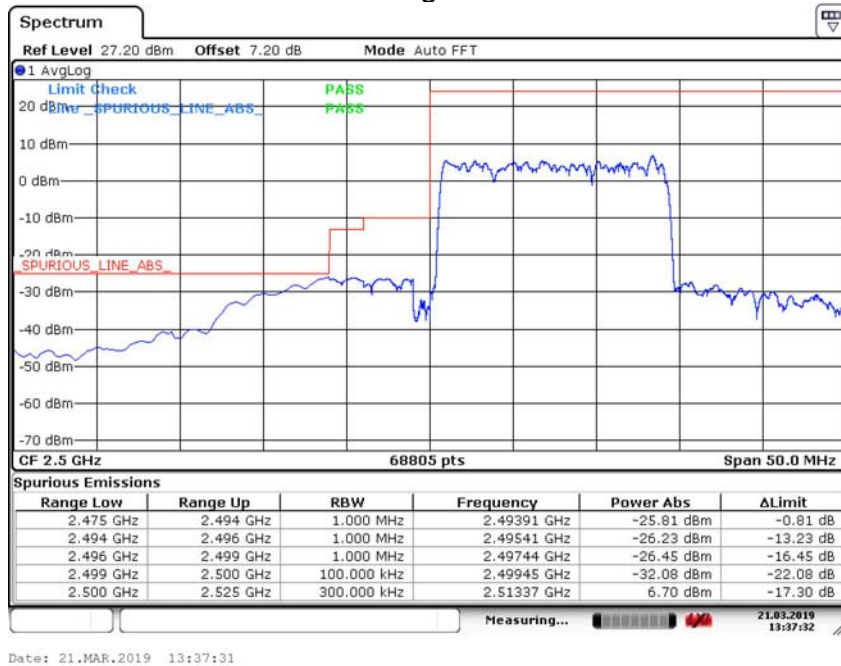


Fig.2

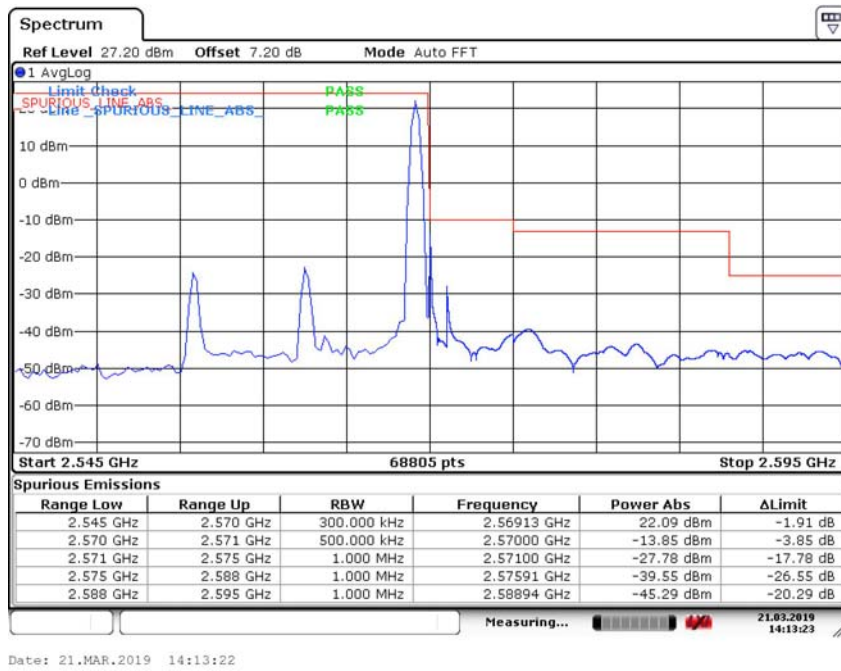


Fig.3

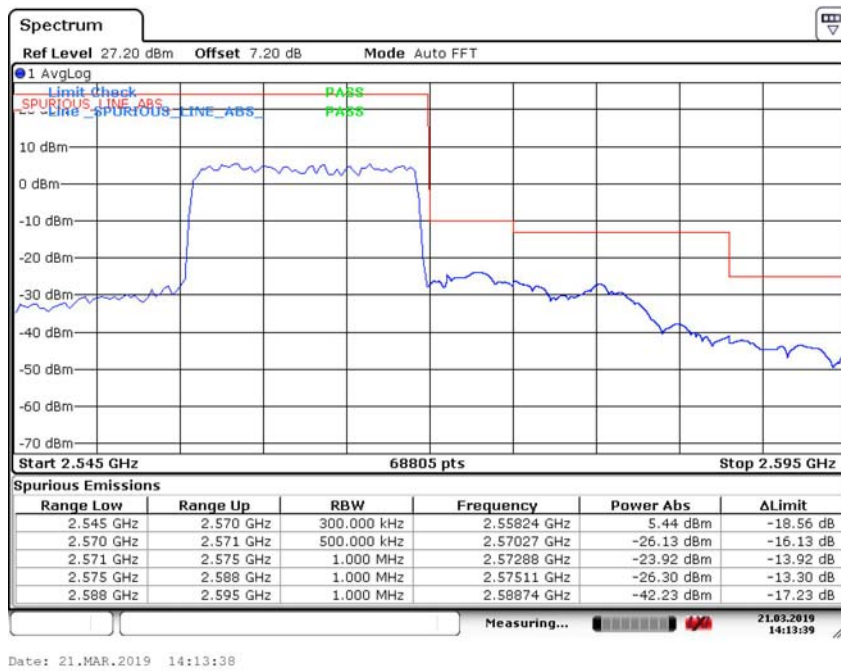


Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
7	2510	20850	20	1	0	Fig.1
7	2510	20850	20	100	0	Fig.2
7	2560	21350	20	1	99	Fig.3
7	2560	21350	20	100	0	Fig.4

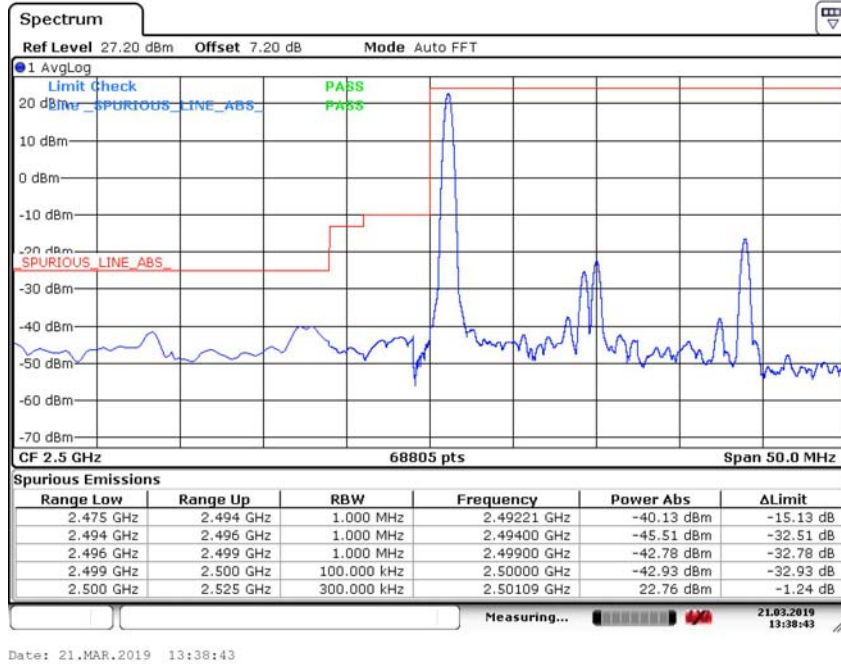


Fig.1

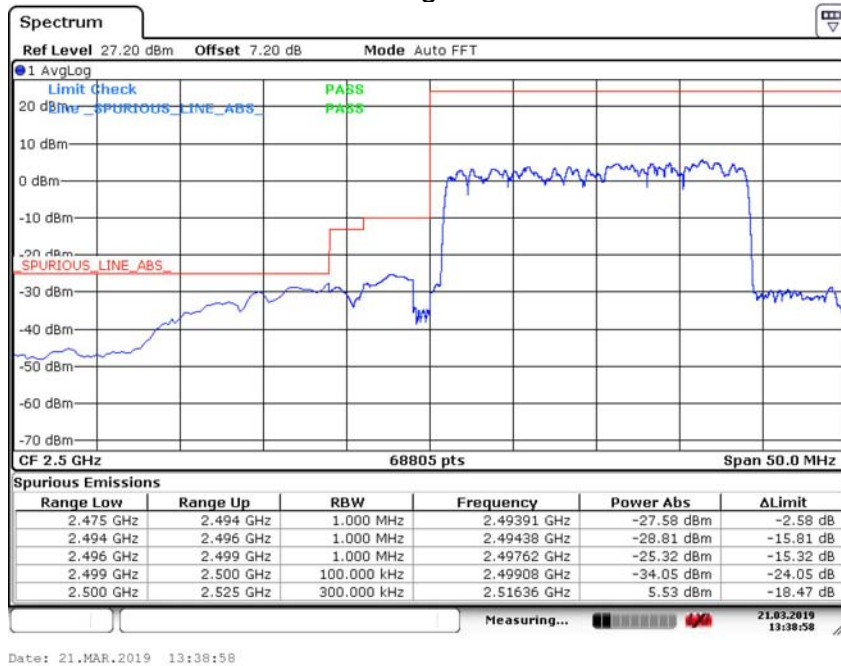


Fig.2

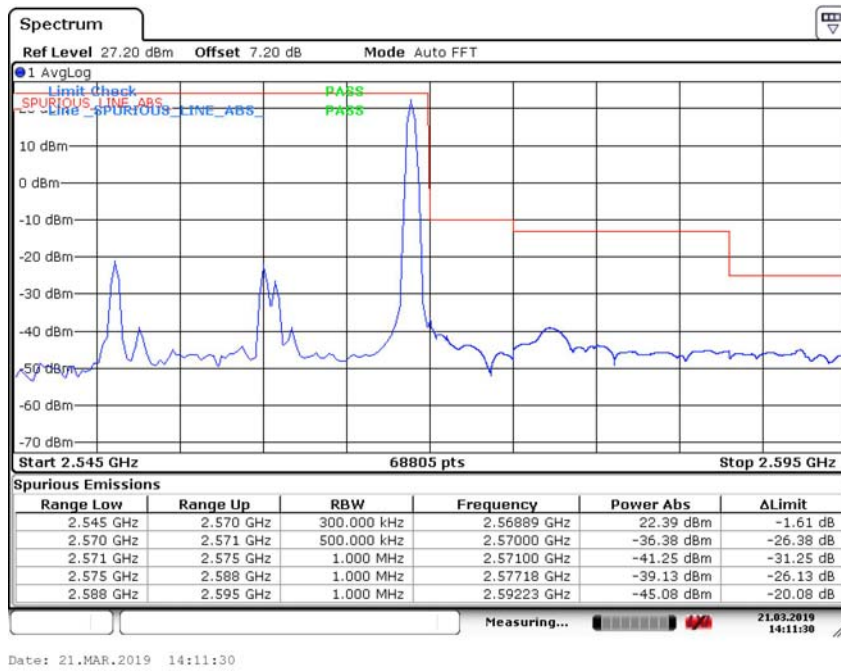


Fig.3

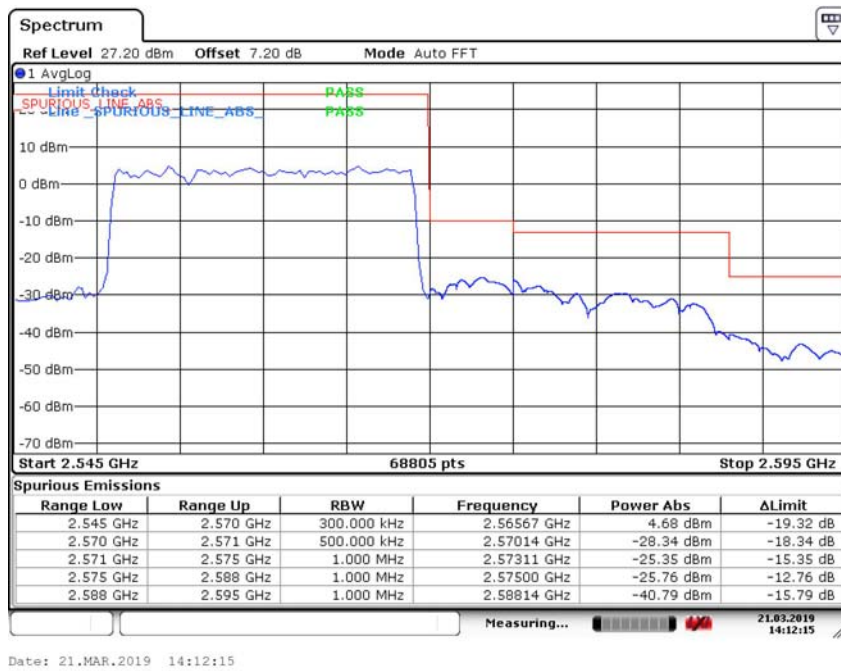


Fig.4

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band7 Low Channel			
		5M	10M	15M	20M
0	NV	-0.006	-0.011	0.015	0.011
+10	NV	0.010	-0.006	0.004	0.012
+20	NV	0.004	0.012	0.006	0.004
+30	NV	0.001	0.017	-0.004	-0.011
+40	NV	-0.006	-0.004	-0.001	0.002
+50	NV	-0.014	-0.011	0.012	-0.005
+55	NV	-0.007	0.013	-0.002	0.018
+20	LV	0.000	0.003	0.015	-0.006
+20	HV	0.004	0.010	0.001	0.004

Temperature(°C)	Voltage	Test Result (ppm) Band7 High Channel			
		5M	10M	15M	20M
0	NV	0.014	0.010	0.002	-0.003
+10	NV	-0.006	-0.013	0.002	-0.014
+20	NV	0.001	0.004	0.014	0.013
+30	NV	-0.004	-0.011	0.000	0.001
+40	NV	-0.008	-0.002	-0.001	0.007
+50	NV	0.003	-0.013	-0.005	-0.012
+55	NV	-0.009	0.006	-0.004	0.008
+20	LV	0.007	0.010	-0.008	-0.011
+20	HV	-0.002	0.004	0.003	-0.009

APPENDIX B – TEST DATA OF RADIATED EMISSION

LTE band 2 (20MHz)

Test result:

Channel 18700

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2456.60	-53.22	-13	Vertical
2778.79	-52.17	-13	Vertical
3729.47	-43.81	-13	Vertical
6676.07	-43.81	-13	Vertical
9963.98	-39.63	-13	Vertical
17821.32	-35.56	-13	Vertical

Channel 18900

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2456.22	-53.14	-13	Vertical
2778.61	-51.33	-13	Vertical
3728.19	-44.23	-13	Vertical
6679.63	-43.31	-13	Vertical
9961.26	-39.78	-13	Vertical
17822.58	-35.31	-13	Vertical

Channel 19100

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2455.13	-52.33	-13	Vertical
2780.41	-51.64	-13	Vertical
3728.61	-43.36	-13	Horizontal
6679.64	-43.40	-13	Vertical
9961.82	-39.81	-13	Vertical
17824.25	-35.58	-13	Vertical

LTE band 4 (20MHz)

Test result:

Channel 20050

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2456.26	-52.24	-13	Vertical
2781.01	-51.39	-13	Vertical
3727.89	-43.34	-13	Horizontal
6676.12	-43.48	-13	Vertical
9961.52	-39.61	-13	Vertical
17822.09	-35.39	-13	Vertical

Channel 20175

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2453.58	-52.73	-13	Vertical
2781.45	-51.47	-13	Vertical
3728.62	-44.32	-13	Vertical
6679.20	-43.71	-13	Vertical
9961.72	-39.70	-13	Vertical
17823.75	-35.51	-13	Vertical

Channel 20300

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2454.63	-52.27	-13	Vertical
2781.57	-51.78	-13	Vertical
3727.18	-43.44	-13	Vertical
6677.21	-43.21	-13	Vertical
9964.38	-39.60	-13	Vertical
17820.47	-35.70	-13	Vertical

LTE band 5 (10MHz)

Test result:

Channel 20450

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2455.97	-52.47	-13	Vertical
2778.90	-51.80	-13	Vertical
3729.57	-43.94	-13	Vertical
6676.14	-43.94	-13	Vertical
9964.62	-40.17	-13	Vertical
17821.46	-35.30	-13	Vertical

Channel 20525

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2454.69	-53.10	-13	Vertical
2778.18	-51.93	-13	Vertical
3729.67	-43.94	-13	Vertical
6679.59	-43.48	-13	Vertical
9964.59	-39.61	-13	Vertical
17821.61	-35.70	-13	Vertical

Channel 20600

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2456.19	-52.33	-13	Vertical
2779.44	-51.99	-13	Horizontal
3729.31	-44.21	-13	Vertical
6678.96	-42.98	-13	Horizontal
9963.60	-39.65	-13	Vertical
17821.51	-35.26	-13	Vertical

LTE band 7 (20MHz)

Test result:

Channel 20850

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2455.69	-53.04	-25	Vertical
2778.22	-52.04	-25	Vertical
3727.91	-43.99	-25	Horizontal
6676.96	-43.36	-25	Vertical
9964.23	-40.32	-25	Vertical
17821.74	-35.59	-25	Horizontal

Channel 21100

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2454.13	-52.34	-25	Vertical
2780.36	-52.18	-25	Vertical
3730.58	-43.51	-25	Vertical
6676.35	-43.18	-25	Vertical
9962.05	-40.39	-25	Vertical
17821.66	-35.76	-25	Horizontal

Channel 21350

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2454.43	-53.19	-25	Vertical
2778.25	-51.34	-25	Vertical
3728.04	-43.47	-25	Horizontal
6677.64	-43.25	-25	Horizontal
9964.89	-39.80	-25	Vertical
17822.70	-35.53	-25	Vertical

---End of Test Report---