

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 13

1 RF Power Output up Ant

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	779.5	23205	5	1	0	23.32
				1	24	23.30
				12	6	22.43
				25	0	22.48
	782	23230		1	0	23.28
				1	24	23.31
				12	6	22.42
				25	0	22.44
	784.5	23255		1	0	23.27
				1	24	23.31
				12	6	22.48
				25	0	22.44
16QAM	779.5	23205	5	1	0	22.45
				1	24	22.51
				12	6	21.38
				25	0	21.43
	782	23230		1	0	22.43
				1	24	22.55
				12	6	21.37
				25	0	21.42
	784.5	23255		1	0	22.45
				1	24	22.58
				12	6	21.44
				25	0	21.46
64QAM	779.5	23205	5	1	0	22.43
				1	24	22.52
				12	6	21.34
				25	0	21.42
	782	23230		1	0	22.38
				1	24	22.42
				12	6	21.36
				25	0	21.45
	784.5	23255		1	0	22.43
				1	24	22.41
				12	6	21.42
				25	0	21.46

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	782	23230	10	1	0	23.38
				1	49	23.44
				24	12	22.42
				50	0	22.41
16QAM	782	23230	10	1	0	22.59
				1	49	22.64
				24	12	21.36
				50	0	21.44
64QAM	782	23230	10	1	0	22.57
				1	49	22.62
				24	12	21.28
				50	0	21.32

2 Occupied Bandwidth

Test result

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
13	779.5	23205	5	25	0	4.4827	Fig.1	4.4836	Fig.2	4.4844	Fig.3
	782	23230		25	0	4.4835	Fig.4	4.4915	Fig.5	4.4761	Fig.6
	784.5	23255		25	0	4.4926	Fig.7	4.4816	Fig.8	4.4810	Fig.9
	782	23230	10	50	0	8.9685	Fig.10	8.9612	Fig.11	8.9510	Fig.12

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
13	779.5	23205	5	25	0	5.121	Fig.1	5.004	Fig.2	5.098	Fig.3
	782	23230		25	0	5.014	Fig.4	5.015	Fig.5	5.007	Fig.6
	784.5	23255		25	0	5.101	Fig.7	5.044	Fig.8	5.041	Fig.9
	782	23230	10	50	0	9.856	Fig.10	9.818	Fig.11	9.751	Fig.12

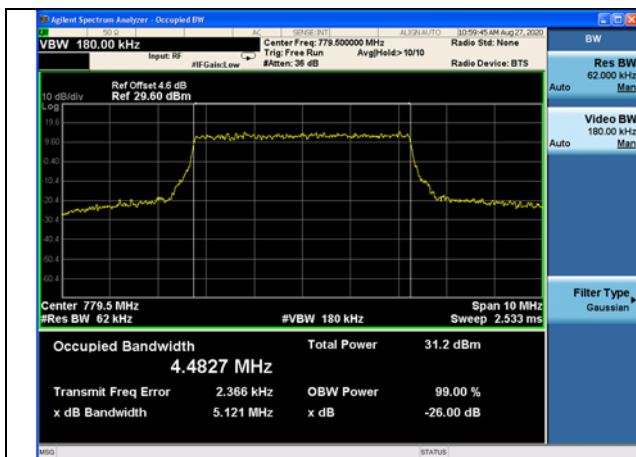


Fig.1

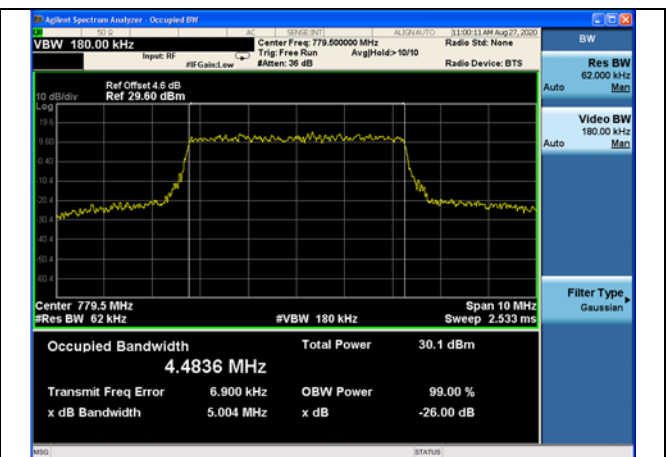


Fig.2

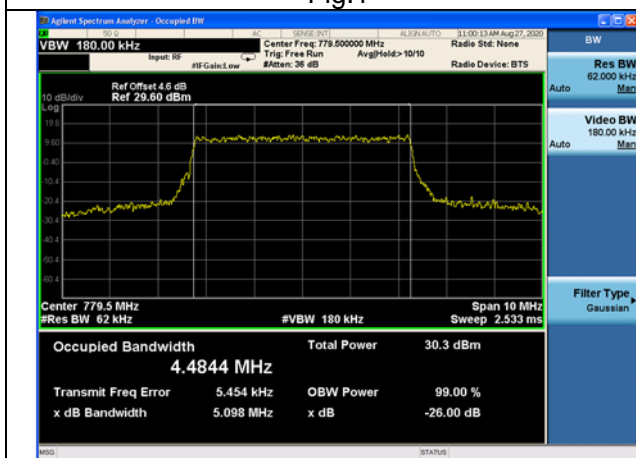


Fig.3

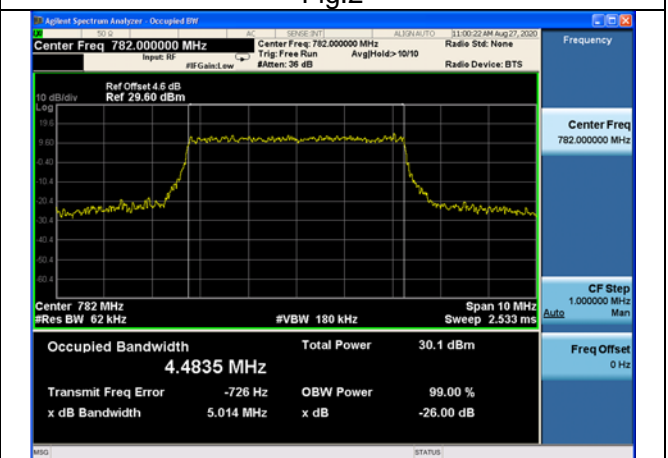


Fig.4

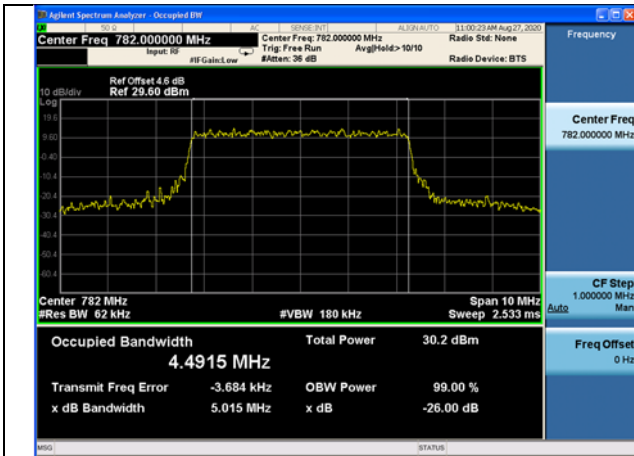


Fig.5

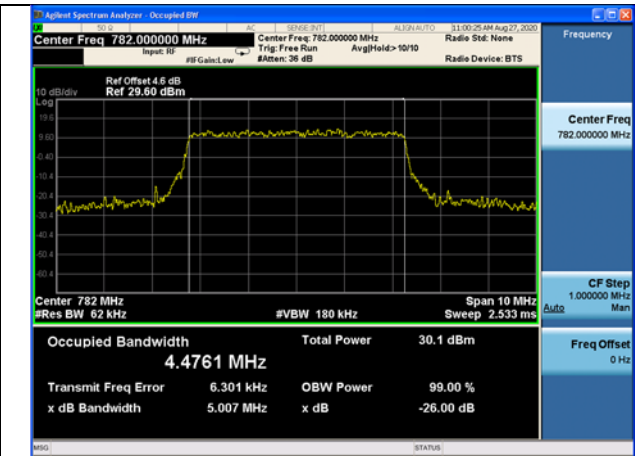


Fig.6

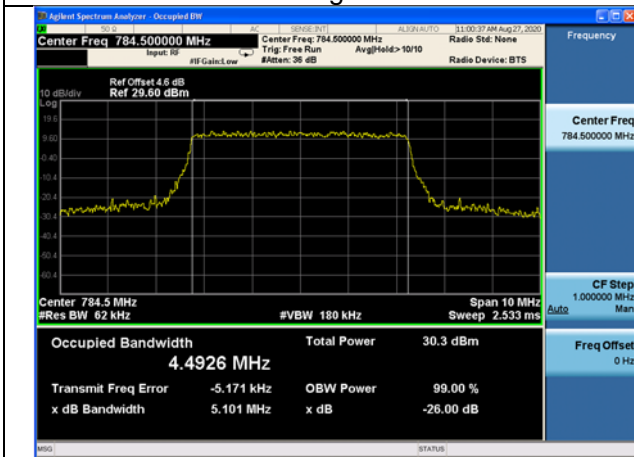


Fig.7

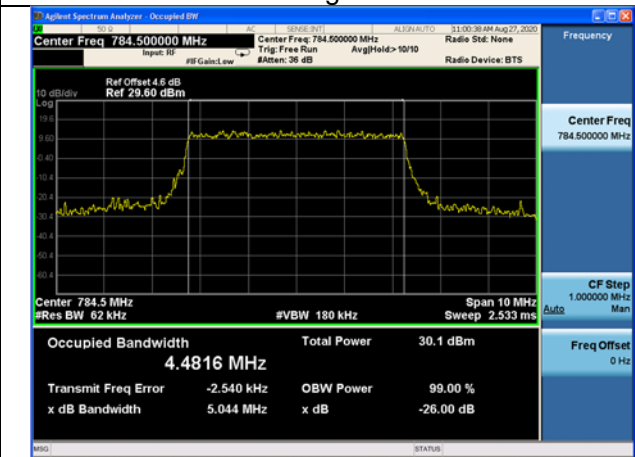


Fig.8

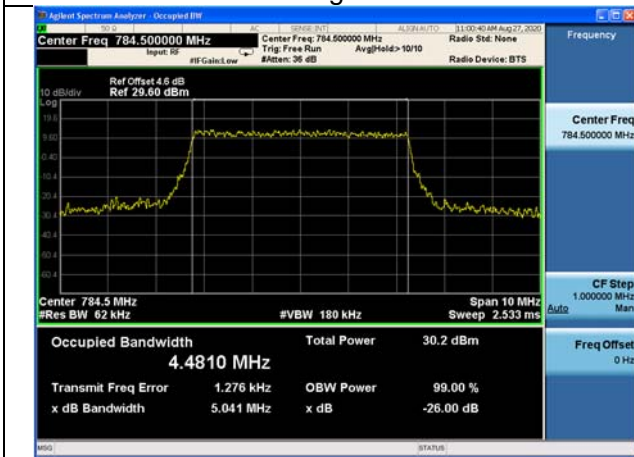


Fig.9

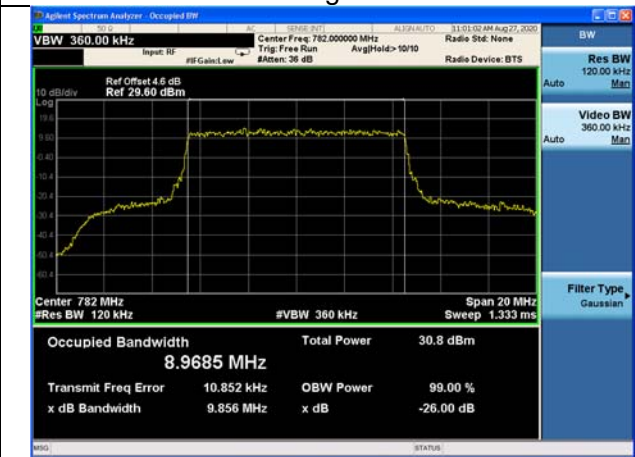


Fig.10

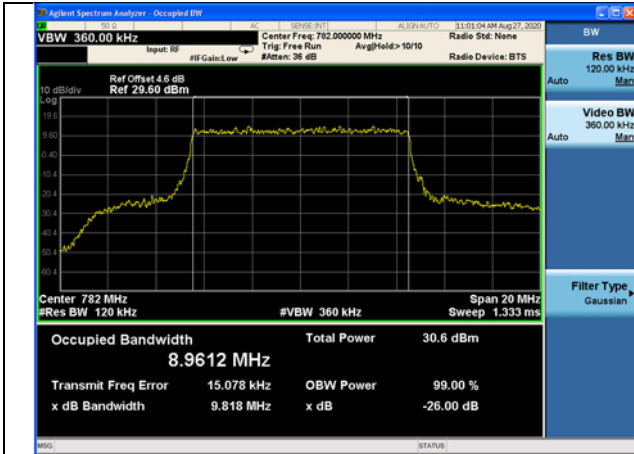


Fig.11

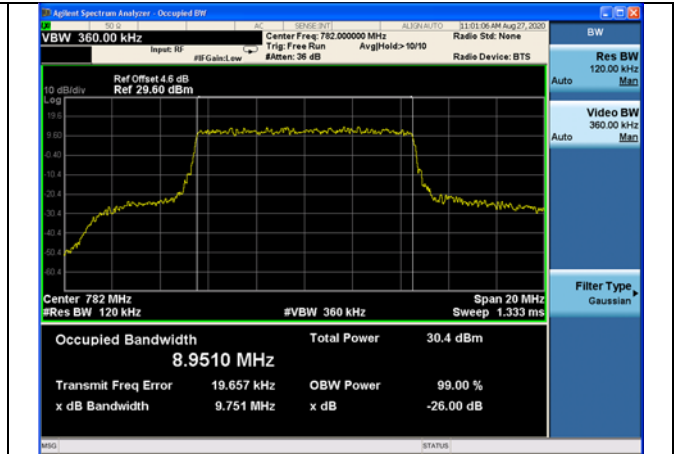


Fig.12

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
13	782	23230	5	1	0	Fig.1	Fig.2	Fig.3
			10	1	0	Fig.4	Fig.5	Fig.6

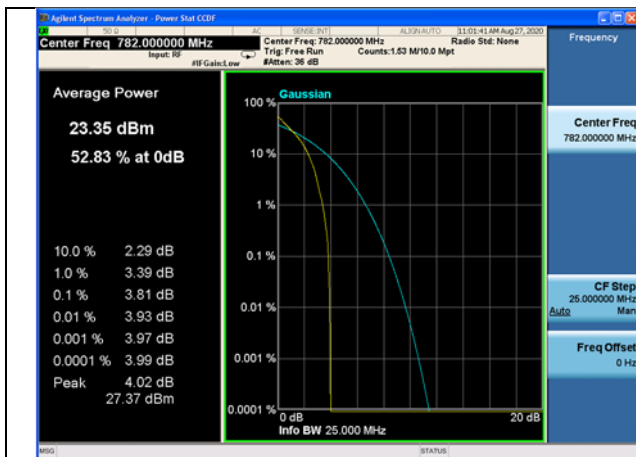


Fig.1

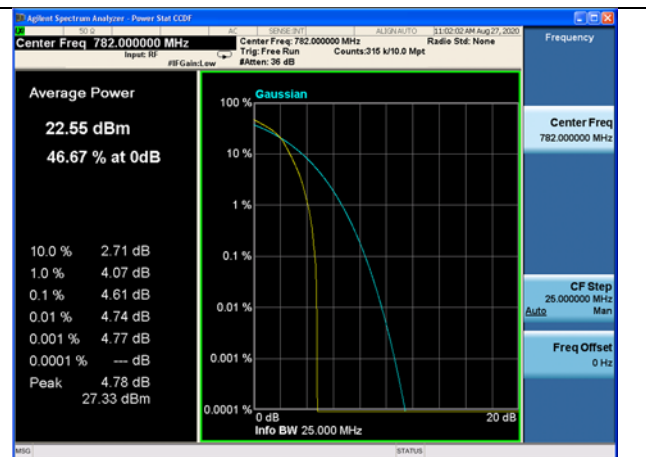


Fig.2

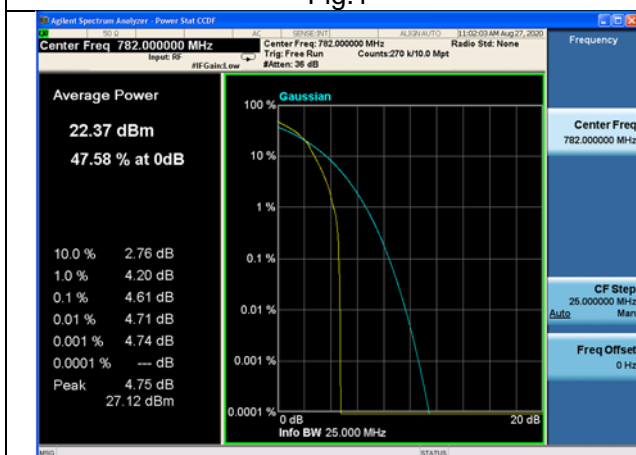


Fig.3

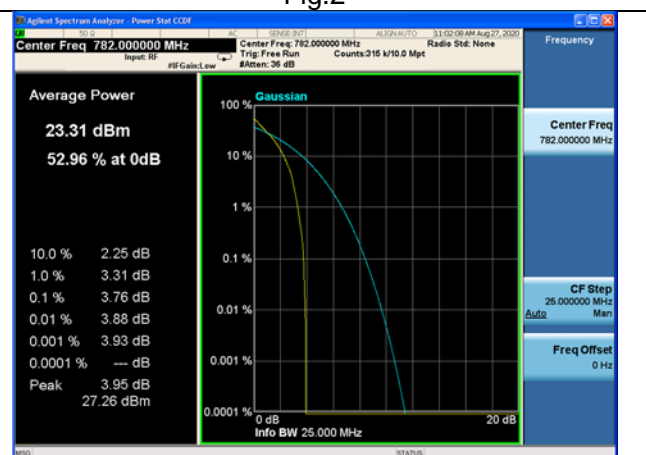


Fig.4



Fig.5

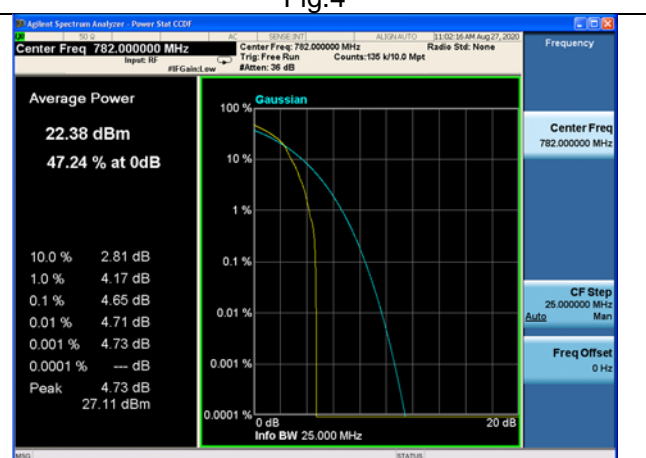


Fig.6

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
13	782	23230	10	1	0	Fig.1-2

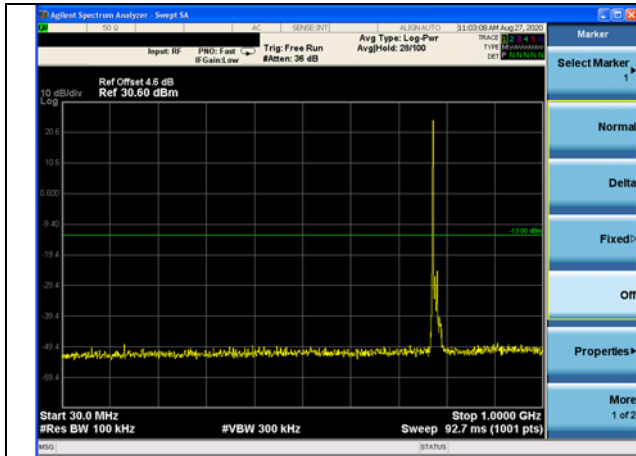


Fig.1

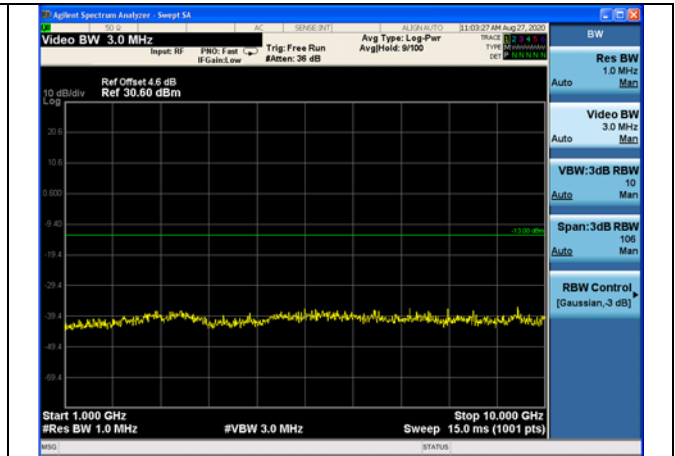


Fig.2

5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot	
						QPSK	
13	779.5	23205	5	1	0	Fig.1	
				25	0	Fig.2	
	784.5	23255		1	24	Fig.3	
				25	0	Fig.4	
	782	23230	10	1	0	Fig.5	
				50	0	Fig.6	
			782	23230	1	49	Fig.7
					50	0	Fig.8

Emission Mask Edge

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot	
						QPSK	
13	779.5	23205	5	1	0	Fig.9	
				25	0	Fig.10	
	784.5	23255		1	24	Fig.11	
				25	0	Fig.12	
	782	23230	10	1	0	Fig.13	
				50	0	Fig.14	
			782	23230	1	49	Fig.15
					50	0	Fig.16

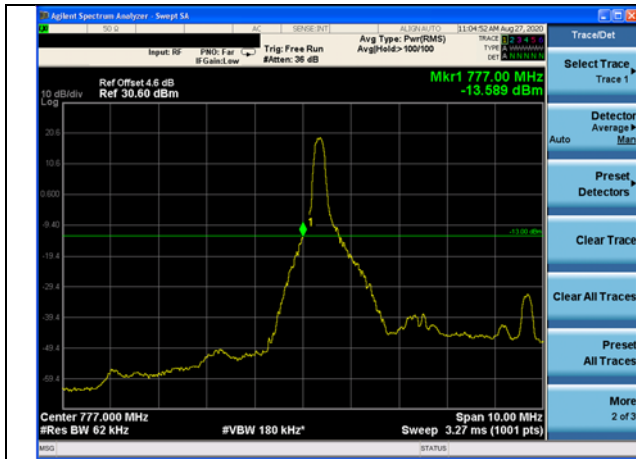


Fig.1

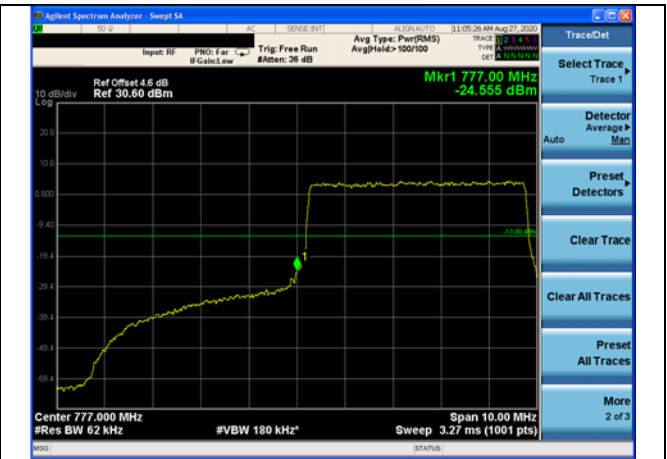


Fig.2

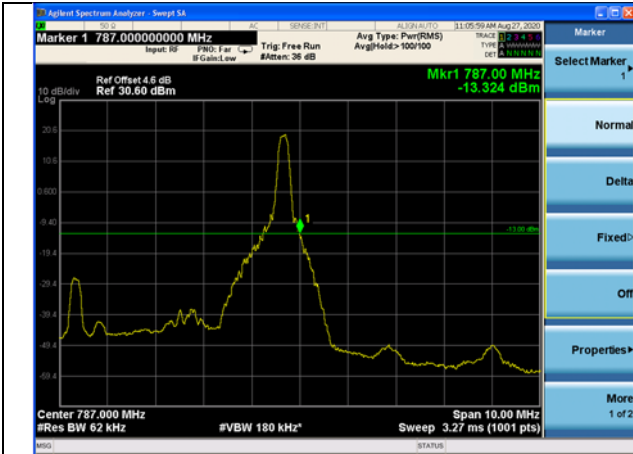


Fig.3

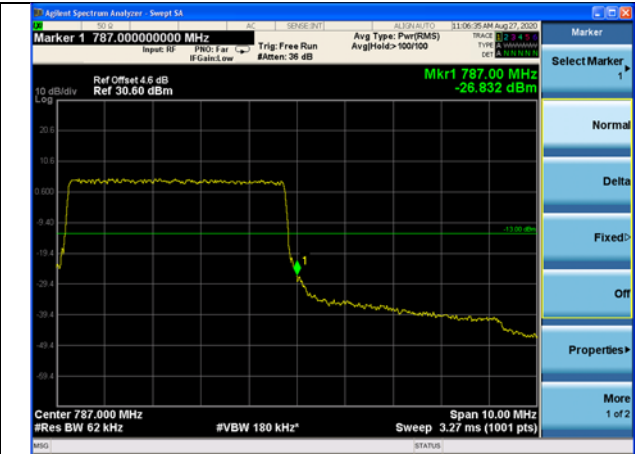


Fig.4

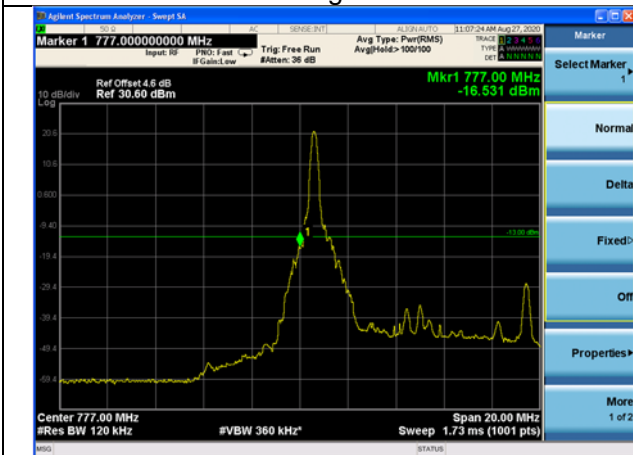


Fig.5

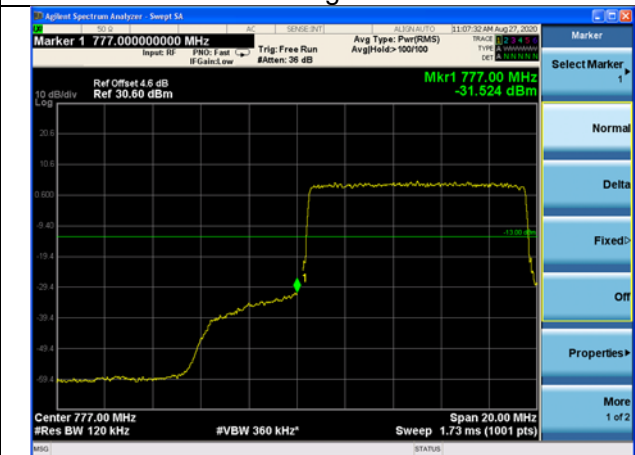


Fig.6

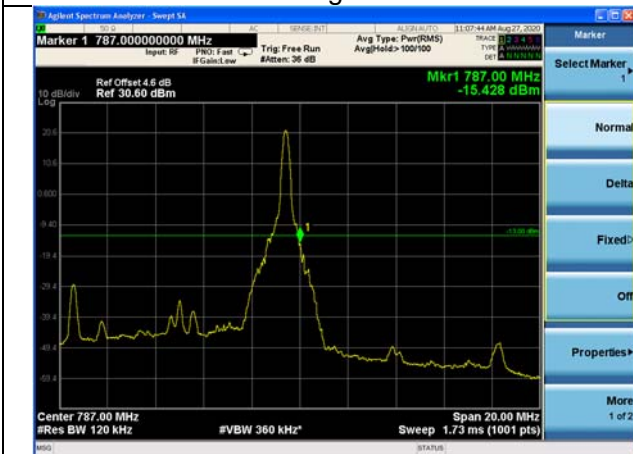


Fig.7



Fig.8

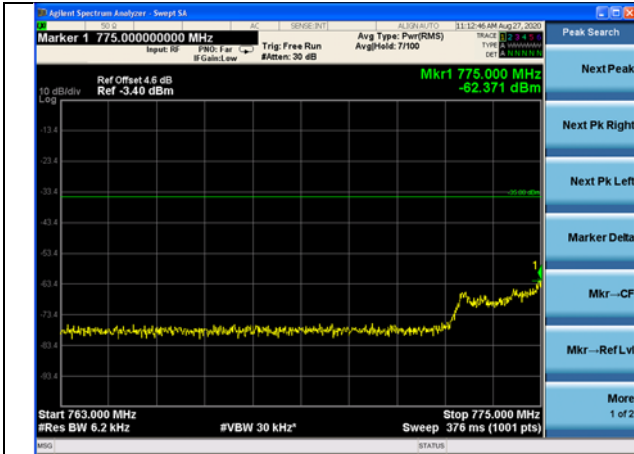


Fig.9

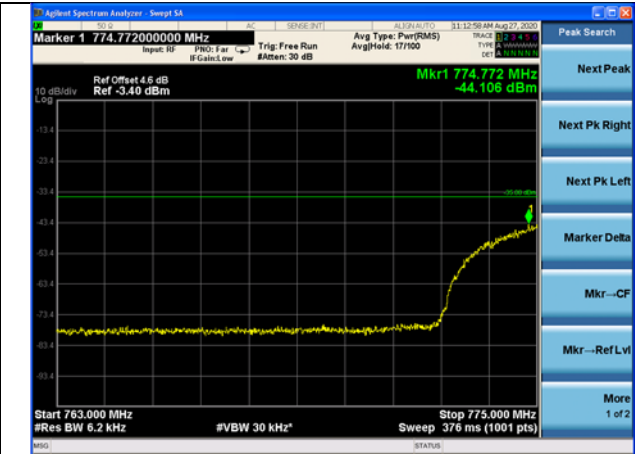


Fig.10

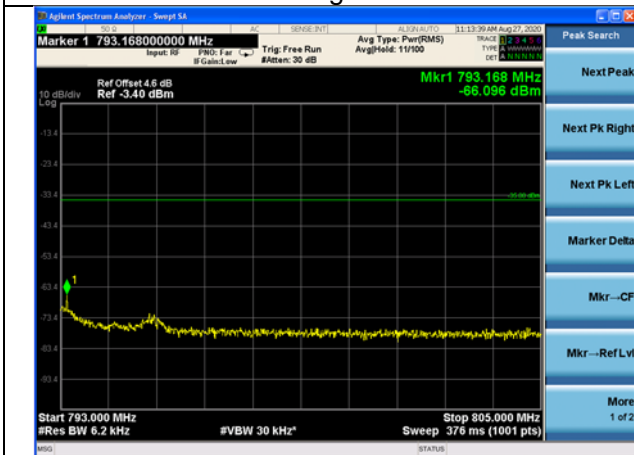


Fig.11

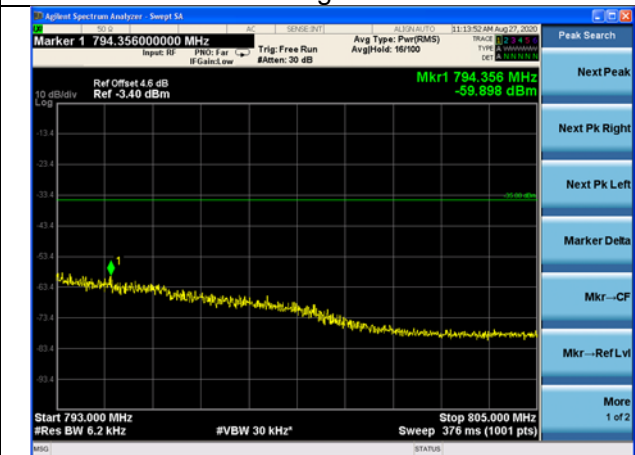


Fig.12

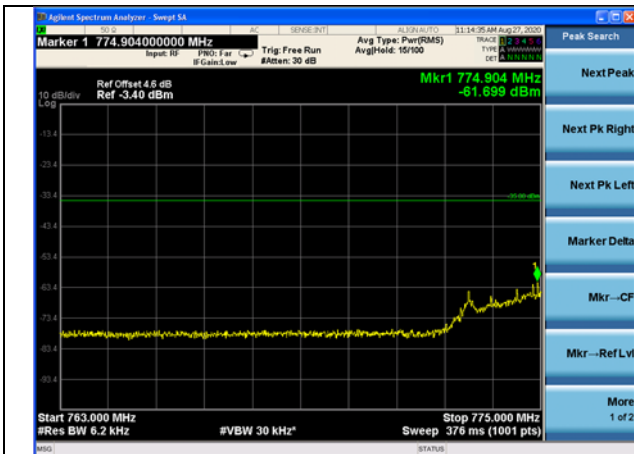


Fig.13

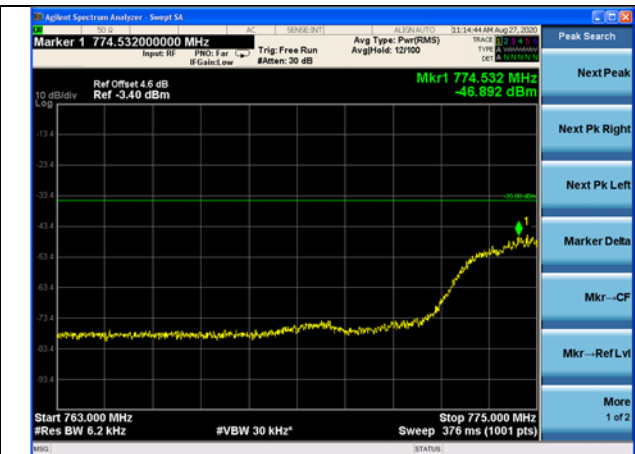


Fig.14

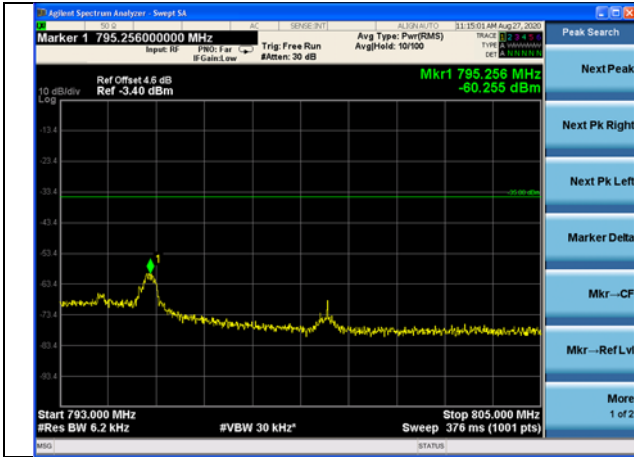


Fig.15



Fig.16

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band13 Low Channel	
		5M	10M
-10	NV	-0.033	0.015
0	NV	-0.025	0.061
10	NV	-0.065	0.067
20	NV	0.000	0.000
30	NV	0.100	-0.021
40	NV	-0.020	0.007
50	NV	0.086	-0.048
55	NV	-0.099	0.008
20	LV	-0.010	0.003
20	HV	-0.095	0.044

Temperature(°C)	Voltage	Test Result (ppm) Band13 High Channel	
		5M	10M
-10	NV	0.044	-0.016
0	NV	0.090	0.089
10	NV	-0.081	-0.035
20	NV	0.000	0.000
30	NV	0.053	0.065
40	NV	-0.016	0.083
50	NV	0.027	-0.060
55	NV	-0.039	-0.091
20	LV	0.014	-0.089
20	HV	0.099	-0.037