

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 13

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	779.5	23205	5	1	0	23.94
				1	24	23.96
				12	6	22.73
				25	0	22.70
	782	23230		1	0	23.94
				1	24	23.85
				12	6	22.86
				25	0	22.91
	784.5	23255		1	0	23.67
				1	24	23.92
				12	6	22.88
				25	0	22.87
16QAM	779.5	23205	5	1	0	22.71
				1	24	22.77
				12	6	21.69
				25	0	21.82
	782	23230		1	0	22.94
				1	24	22.73
				12	6	21.79
				25	0	21.63
	784.5	23255		1	0	22.75
				1	24	22.68
				12	6	21.84
				25	0	21.76
64QAM	779.5	23205	5	1	0	22.79
				1	24	22.82
				12	6	21.51
				25	0	21.59
	782	23230		1	0	22.88
				1	24	22.72
				12	6	21.82
				25	0	21.64
	784.5	23255		1	0	22.77
				1	24	22.63
				12	6	21.79
				25	0	21.54

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	782	23230	10	1	0	24.06
				1	49	24.06
				24	12	23.04
				50	0	23.03
16QAM	782	23230	10	1	0	23.01
				1	49	23.01
				24	12	21.95
				50	0	21.85
64QAM	782	23230	10	1	0	22.96
				1	49	22.94
				24	12	21.86
				50	0	21.78

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	4.5	Fig.1	4.5	Fig.2	4.5	Fig.3
	782	23230		25	0	4.5	Fig.4	4.5	Fig.5	4.5	Fig.6
	784.5	23255		25	0	4.5	Fig.7	4.5	Fig.8	4.4	Fig.9
	782	23230	10	50	0	9.0	Fig.10	9.0	Fig.11	9.0	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	4.8	Fig.1	4.9	Fig.2	4.9	Fig.3
	782	23230		25	0	4.8	Fig.4	4.9	Fig.5	4.9	Fig.6
	784.5	23255		25	0	4.9	Fig.7	4.8	Fig.8	4.8	Fig.9
	782	23230	10	50	0	9.9	Fig.10	9.9	Fig.11	9.8	Fig.12

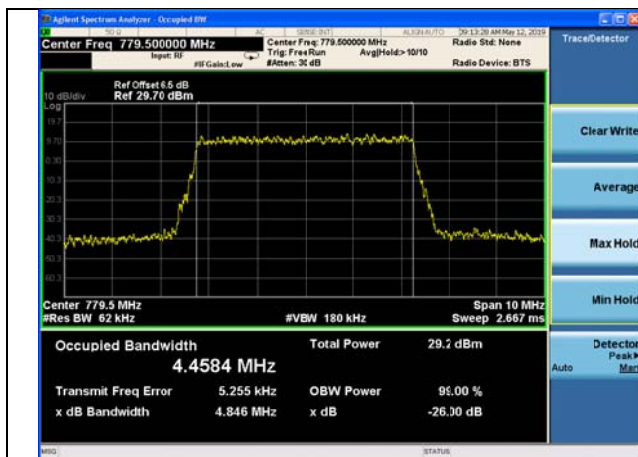


Fig.1

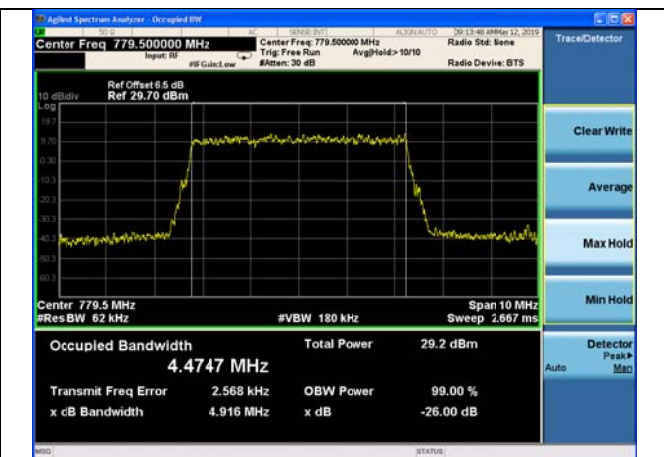


Fig.2

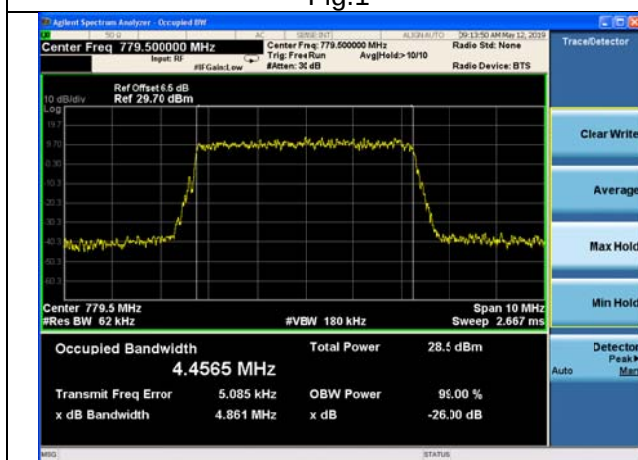


Fig.3

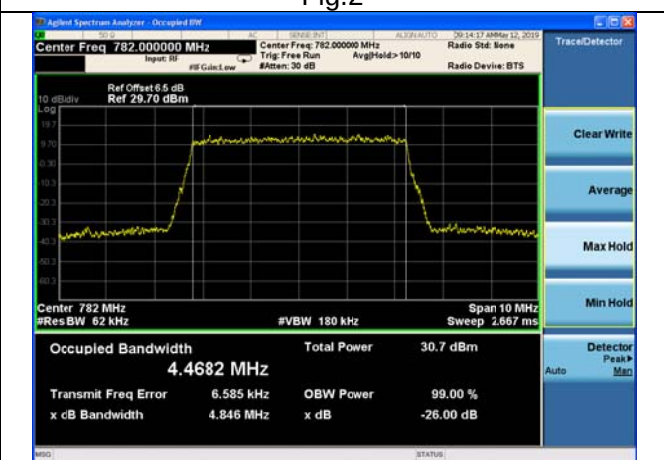


Fig.4

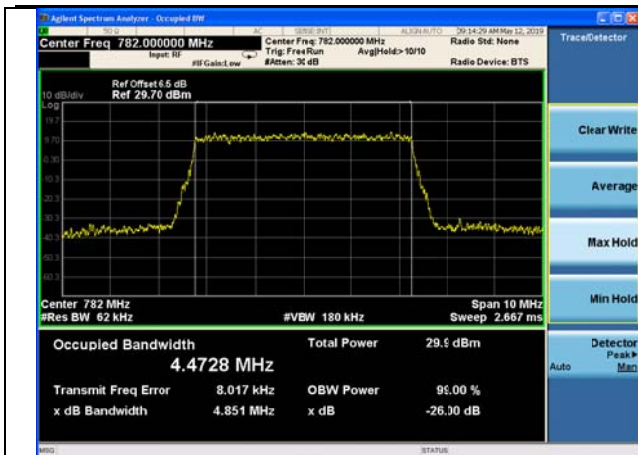


Fig.5

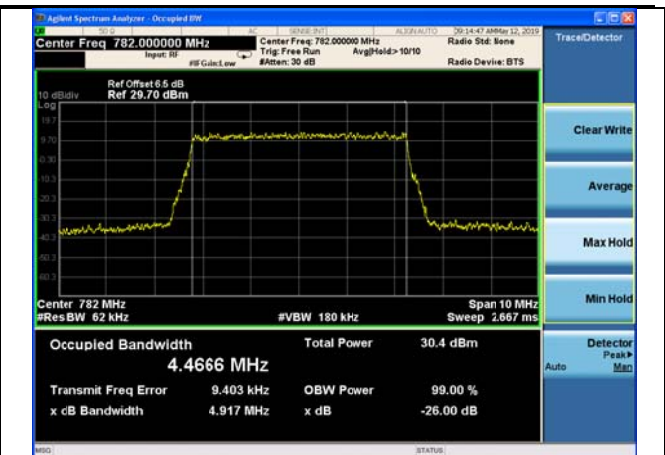


Fig.6

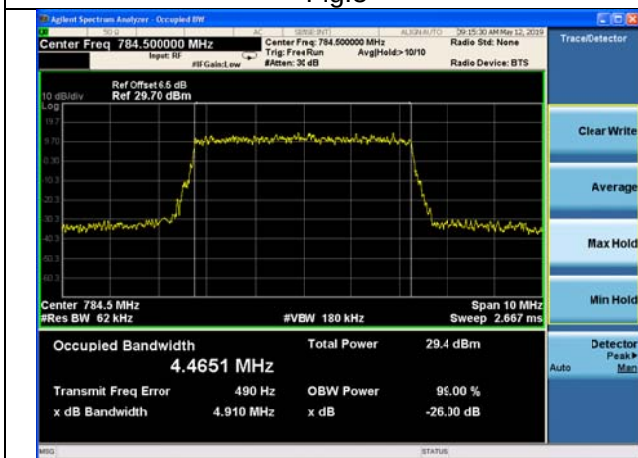


Fig.7

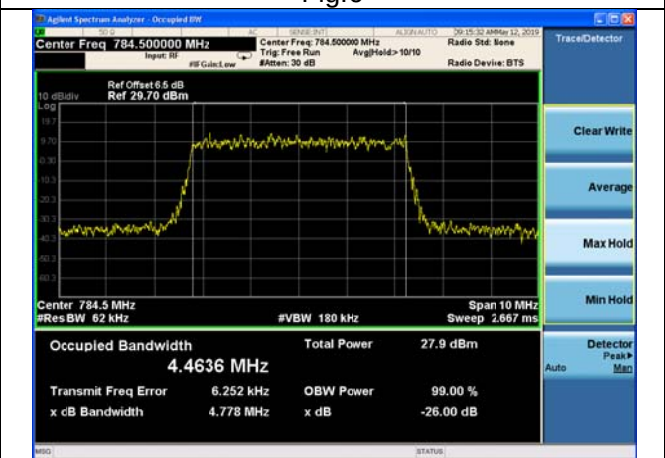


Fig.8

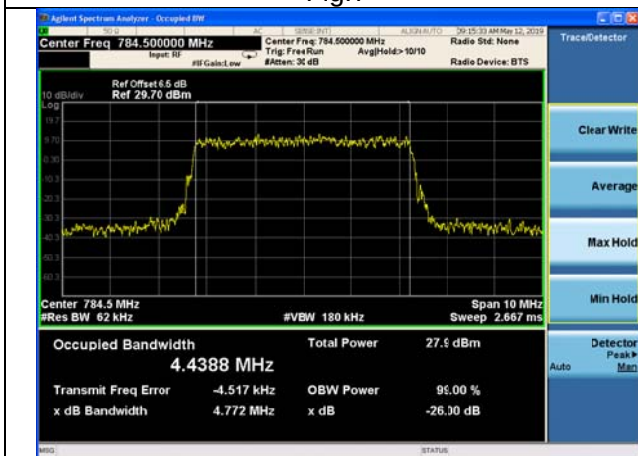


Fig.9

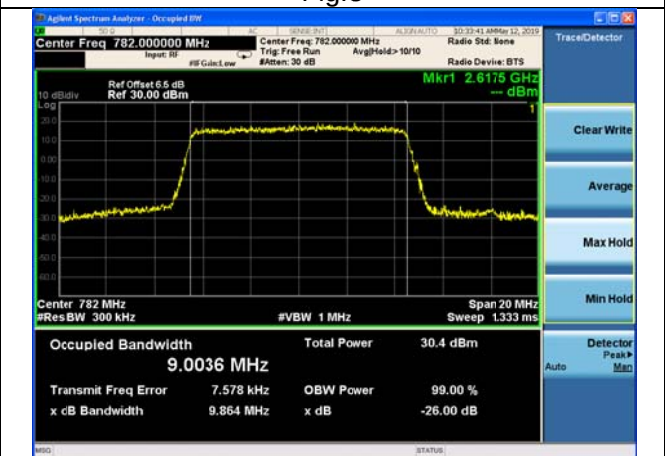


Fig.10

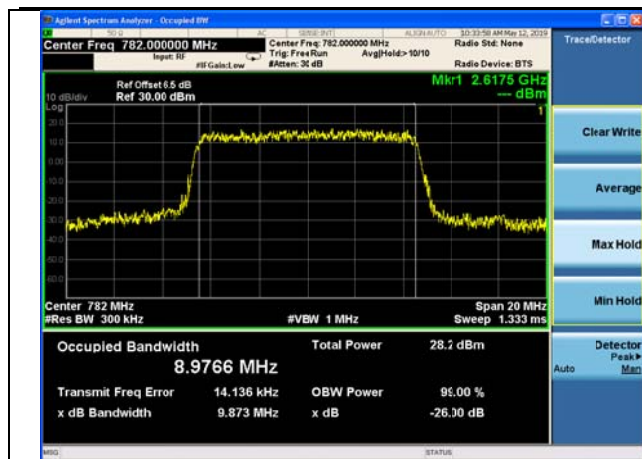


Fig.11

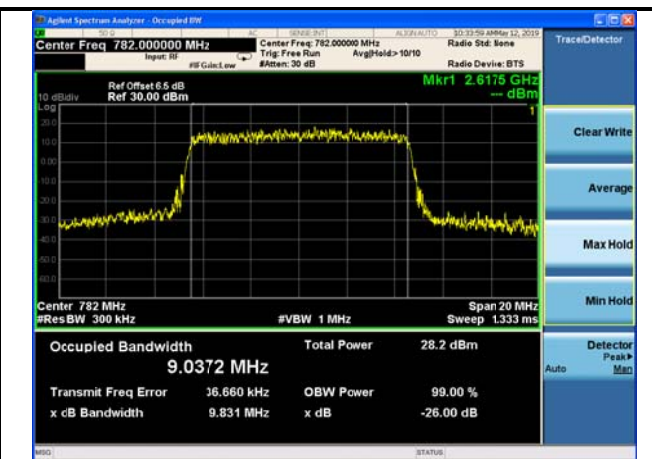


Fig.12

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

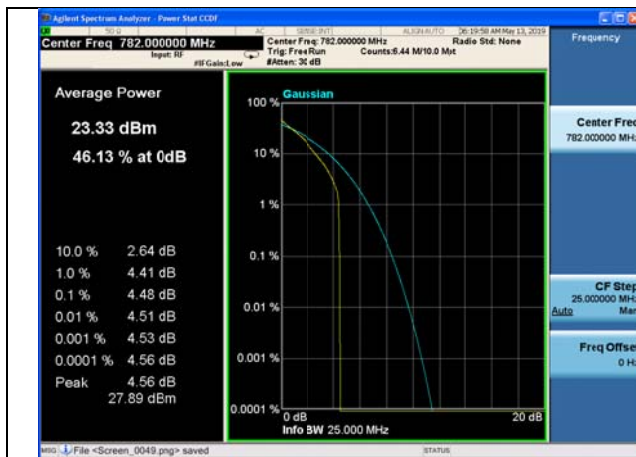


Fig.1

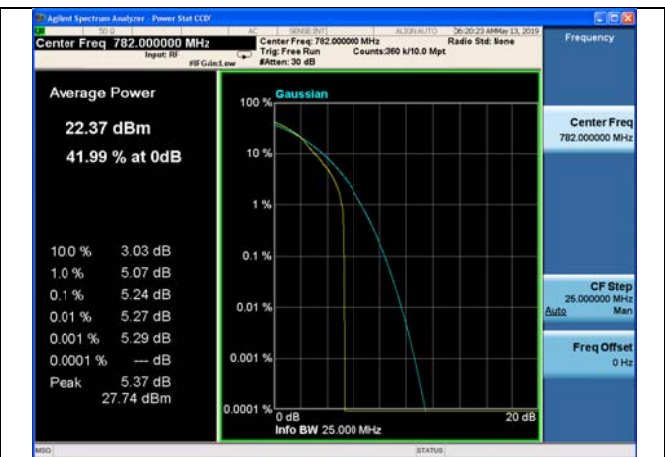


Fig.2

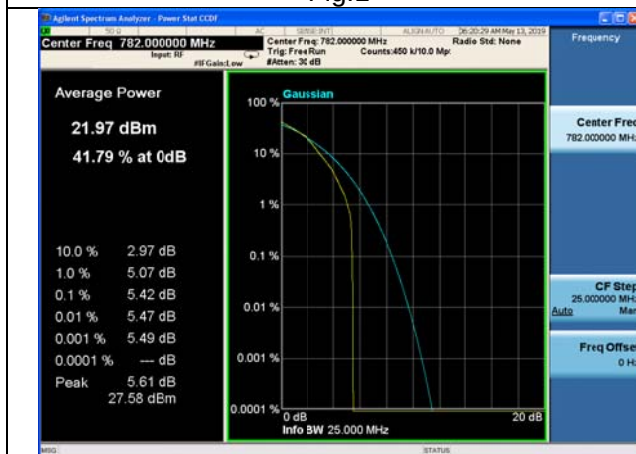


Fig.3

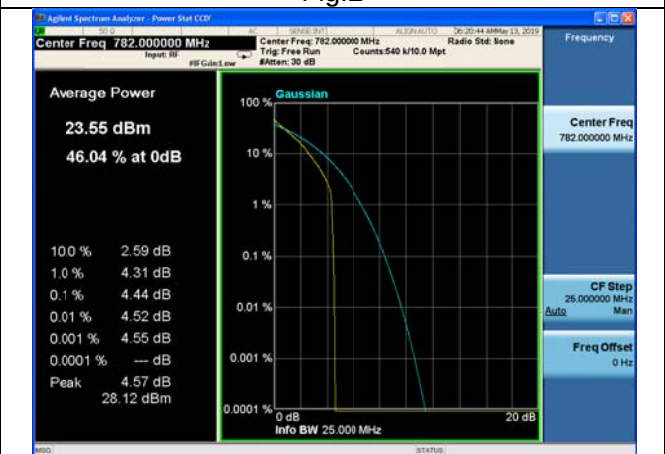


Fig.4

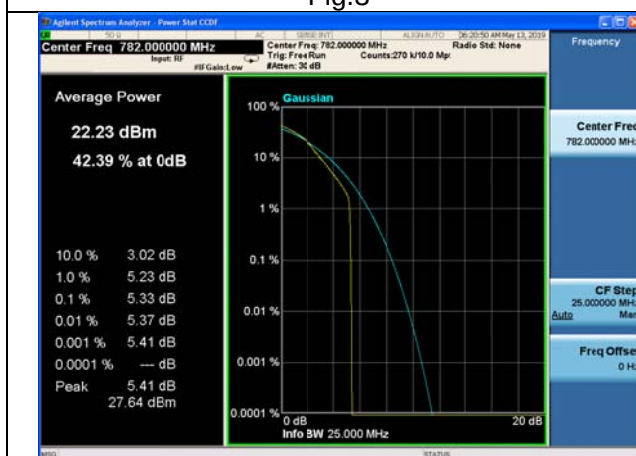


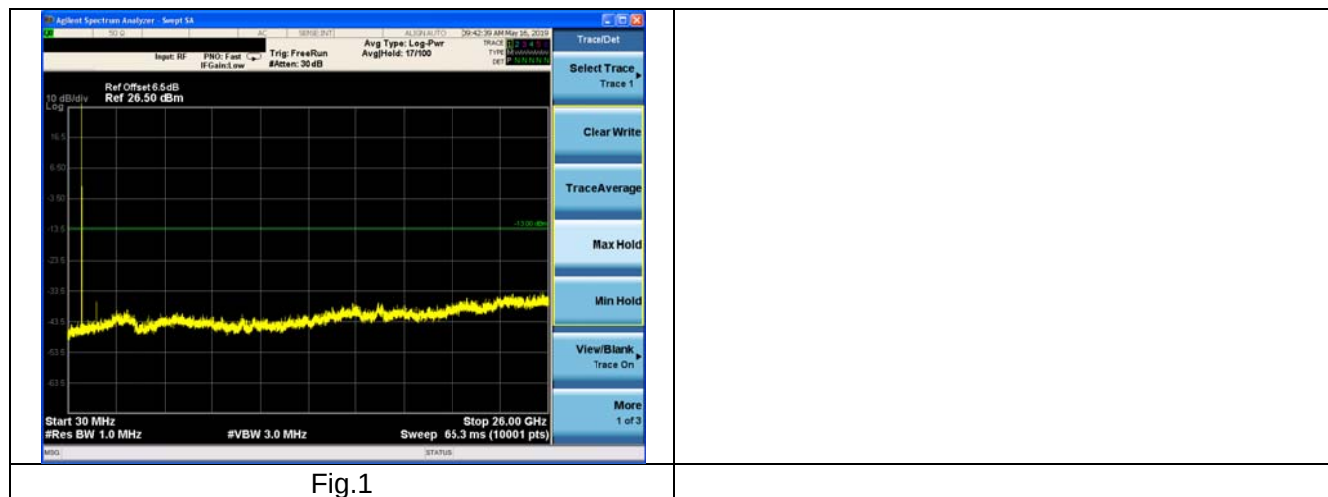
Fig.5



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



5 Band Edges Compliance

Test result

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

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

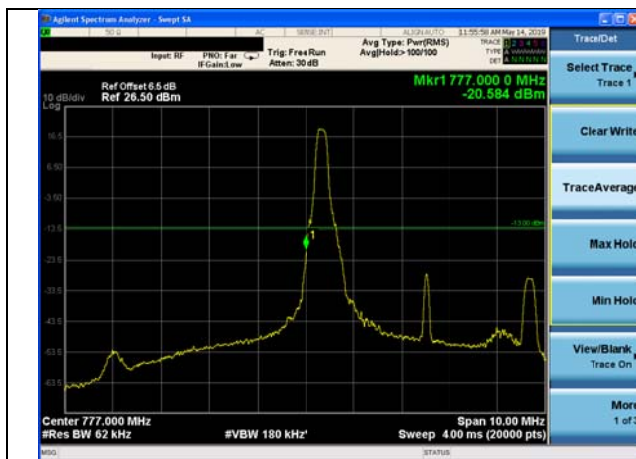


Fig.1

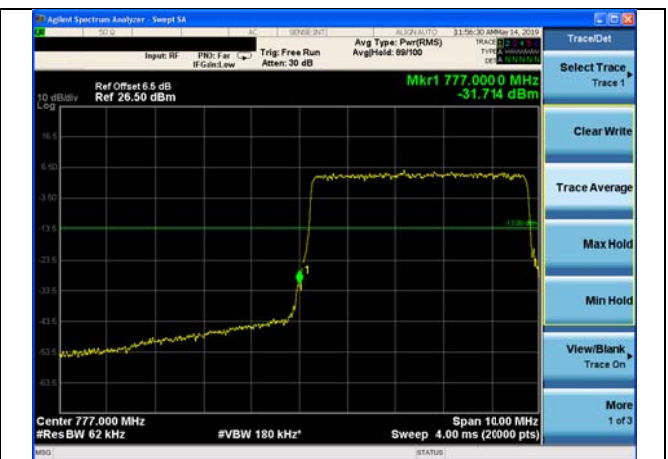


Fig.2

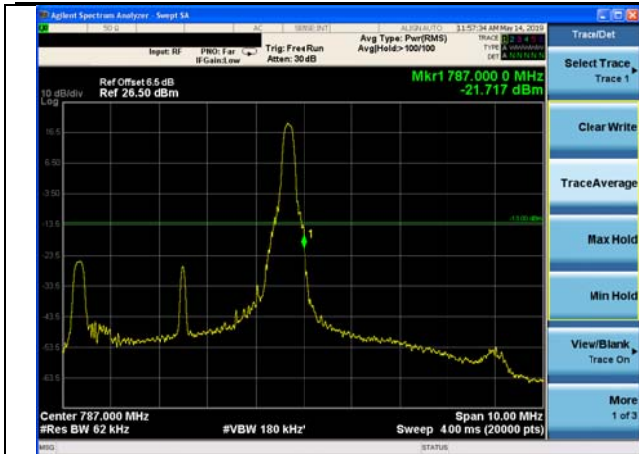


Fig.3



Fig.4

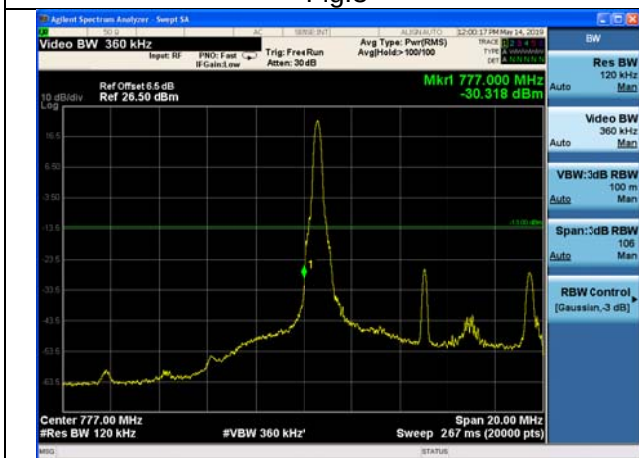


Fig.5

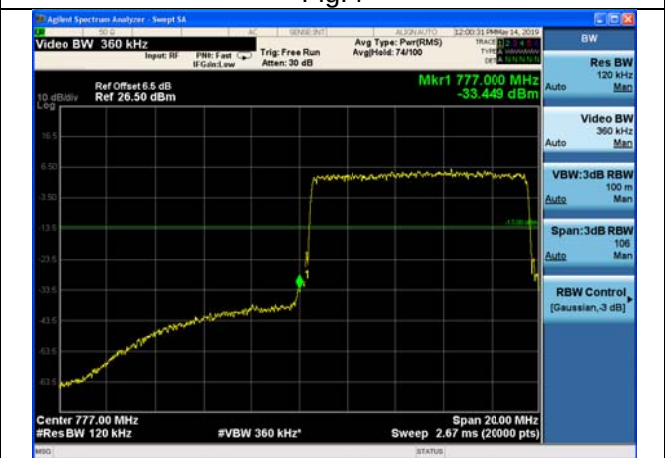


Fig.6

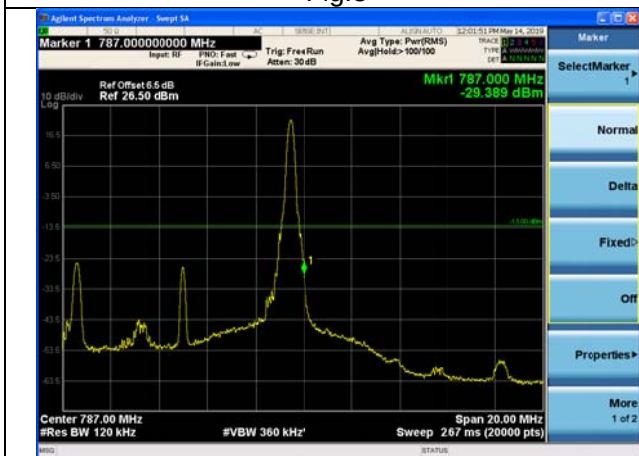


Fig.7



Fig.8

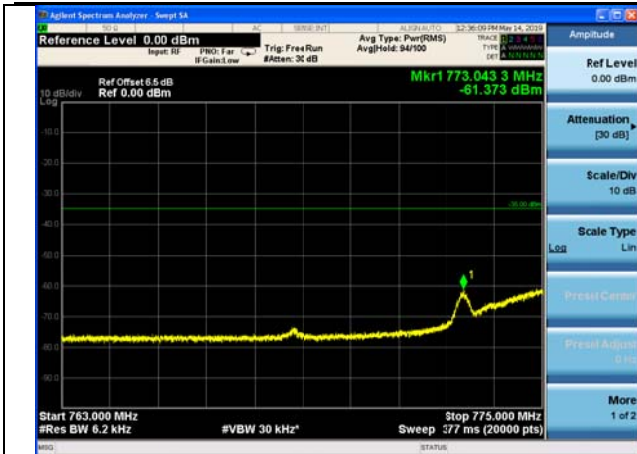


Fig.9

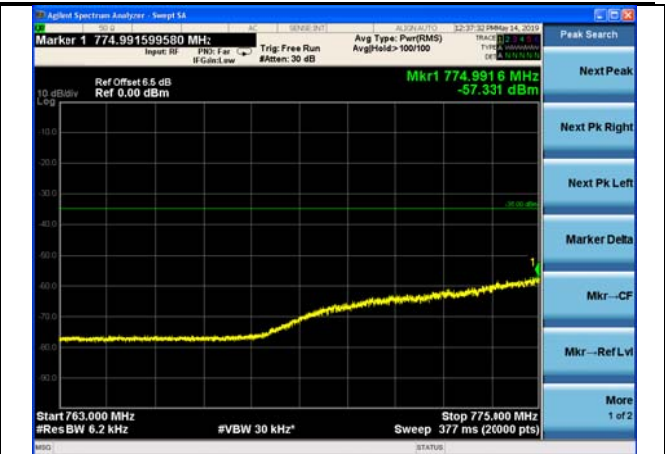


Fig.10

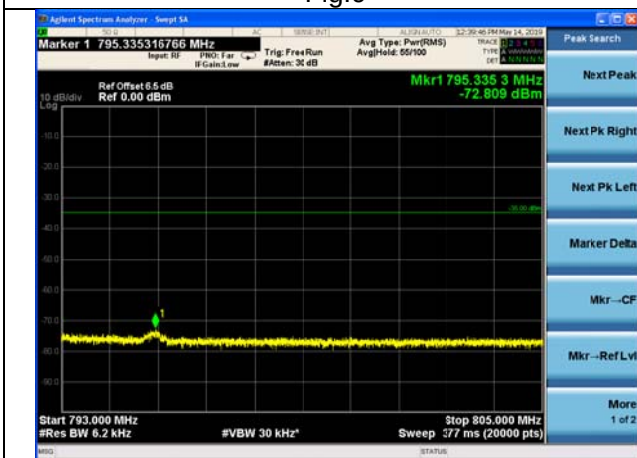


Fig.11

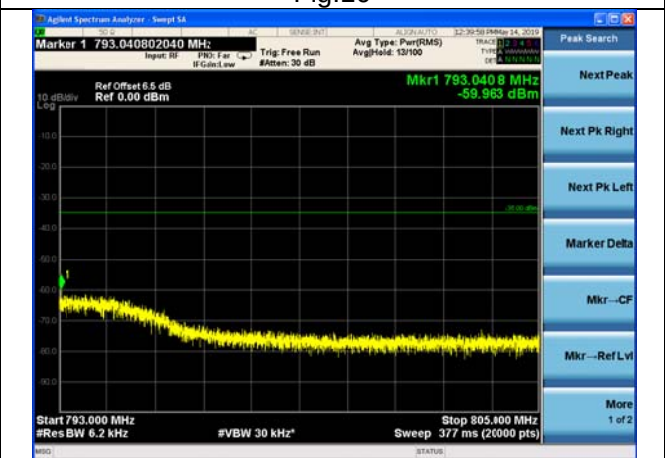


Fig.12



Fig.13

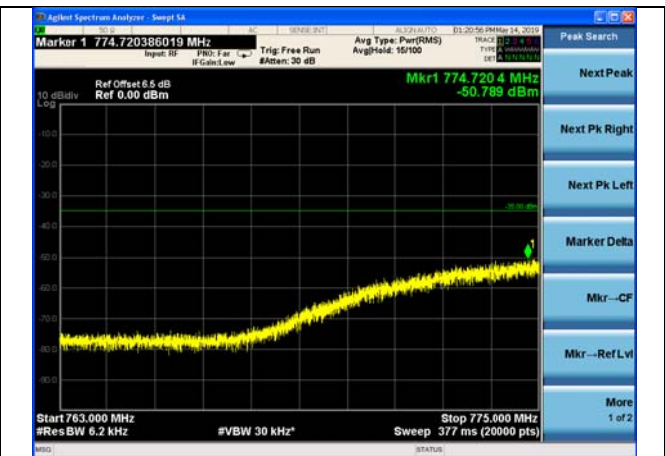


Fig.14

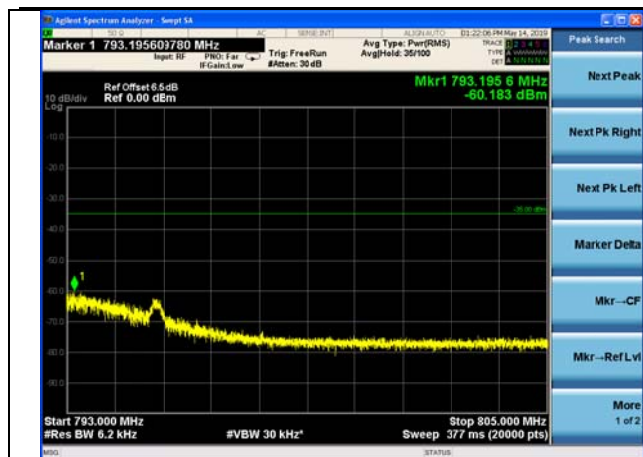


Fig.15

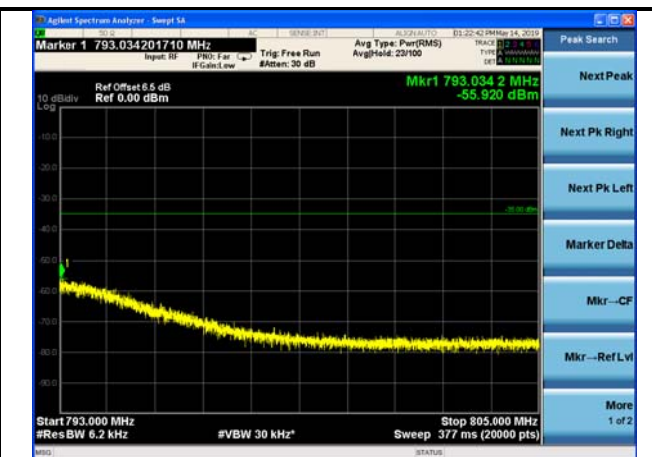


Fig.16

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band13 Low Channel	
		5M	10M
-10	NV	0.102	0.032
0	NV	0.007	0.086
10	NV	0.083	0.109
20	NV	0.071	0.003
30	NV	0.145	0.015
40	NV	0.034	0.002
50	NV	0.123	0.071
20	LV	0.100	0.080
20	HV	0.048	0.054

Temperature(°C)	Voltage	Test Result (ppm) Band13 High Channel	
		5M	10M
-10	NV	0.064	0.033
0	NV	0.033	0.066
10	NV	0.112	0.067
20	NV	0.102	0.050
30	NV	0.116	0.079
40	NV	0.098	0.036
50	NV	0.039	0.021
20	LV	0.044	0.137
20	HV	0.064	0.016