

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 4

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1710.7	19957	1.4	1	0	23.14
				1	5	23.22
				3	2	22.57
				6	0	22.61
	1732.5	20175		1	0	23.37
				1	5	23.17
				3	2	22.57
				6	0	22.45
	1754.3	20393		1	0	23.34
				1	5	23.08
				3	2	22.69
				6	0	22.54
16QAM	1710.7	19957	1.4	1	0	22.44
				1	5	22.49
				3	2	21.52
				6	0	21.63
	1732.5	20175		1	0	22.72
				1	5	22.53
				3	2	21.53
				6	0	21.39
	1754.3	20393		1	0	22.53
				1	5	22.39
				3	2	21.71
				6	0	21.54
64QAM	1710.7	19957	1.4	1	0	22.40
				1	5	22.50
				3	2	21.50
				6	0	21.53
	1732.5	20175		1	0	22.72
				1	5	22.58
				3	2	21.42
				6	0	21.42
	1754.3	20393		1	0	22.45
				1	5	22.50
				3	2	21.67
				6	0	21.55

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	23.18
				1	14	23.28
				8	4	22.54
				15	0	22.63
	1732.5	20175		1	0	23.41
				1	14	23.18
				8	4	22.57
				15	0	22.36
	1753.5	20385		1	0	23.36
				1	14	23.07
				8	4	22.70
				15	0	22.62
16QAM	1711.5	19965	3	1	0	22.39
				1	14	22.47
				8	4	21.49
				15	0	21.61
	1732.5	20175		1	0	22.66
				1	14	22.55
				8	4	21.50
				15	0	21.41
	1753.5	20385		1	0	22.58
				1	14	22.34
				8	4	21.71
				15	0	21.62
64QAM	1711.5	19965	3	1	0	22.42
				1	14	22.43
				8	4	21.46
				15	0	21.49
	1732.5	20175		1	0	22.69
				1	14	22.61
				8	4	21.52
				15	0	21.40
	1753.5	20385		1	0	22.44
				1	14	22.51
				8	4	21.56
				15	0	21.55

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	19975	5	1	0	23.14
				1	24	23.23
				12	6	22.51
				25	0	22.66
	1732.5	20175		1	0	23.38
				1	24	23.12
				12	6	22.56
				25	0	22.35
	1752.5	20375		1	0	23.31
				1	24	23.11
				12	6	22.63
				25	0	22.56
16QAM	1712.5	19975	5	1	0	22.42
				1	24	22.51
				12	6	21.51
				25	0	21.56
	1732.5	20175		1	0	22.78
				1	24	22.46
				12	6	21.58
				25	0	21.34
	1752.5	20375		1	0	22.58
				1	24	22.31
				12	6	21.68
				25	0	21.58
64QAM	1712.5	19975	5	1	0	22.38
				1	24	22.45
				12	6	21.54
				25	0	21.52
	1732.5	20175		1	0	22.78
				1	24	22.58
				12	6	21.45
				25	0	21.38
	1752.5	20375		1	0	22.54
				1	24	22.49
				12	6	21.68
				25	0	21.55

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1715	20000	10	1	0	23.22
				1	49	23.21
				24	12	22.58
				50	0	22.58
	1732.5	20175		1	0	23.40
				1	49	23.24
				24	12	22.51
				50	0	22.41
	1750	20350		1	0	23.33
				1	49	23.00
				24	12	22.61
				50	0	22.63
16QAM	1715	20000	10	1	0	22.46
				1	49	22.45
				24	12	21.47
				50	0	21.61
	1732.5	20175		1	0	22.71
				1	49	22.44
				24	12	21.57
				50	0	21.35
	1750	20350		1	0	22.61
				1	49	22.41
				24	12	21.67
				50	0	21.59
64QAM	1715	20000	10	1	0	22.36
				1	49	22.44
				24	12	21.50
				50	0	21.43
	1732.5	20175		1	0	22.78
				1	49	22.61
				24	12	21.46
				50	0	21.43
	1750	20350		1	0	22.55
				1	49	22.51
				24	12	21.55
				50	0	21.51

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	23.15
				1	74	23.23
				40	18	22.65
				75	0	22.54
	1732.5	20175		1	0	23.47
				1	74	23.21
				40	18	22.43
				75	0	22.44
	1747.5	20325		1	0	23.23
				1	74	23.11
				40	18	22.67
				75	0	22.61
16QAM	1717.5	20025	15	1	0	22.39
				1	74	22.52
				40	18	21.61
				75	0	21.63
	1732.5	20175		1	0	22.78
				1	74	22.55
				40	18	21.57
				75	0	21.47
	1747.5	20325		1	0	22.66
				1	74	22.30
				40	18	21.65
				75	0	21.57
64QAM	1717.5	20025	15	1	0	22.39
				1	74	22.48
				40	18	21.58
				75	0	21.47
	1732.5	20175		1	0	22.65
				1	74	22.62
				40	18	21.46
				75	0	21.41
	1747.5	20325		1	0	22.46
				1	74	22.44
				40	18	21.56
				75	0	21.62

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1720	20050	20	1	0	23.26
				1	99	23.31
				50	25	22.65
				100	0	22.68
	1732.5	20175		1	0	23.47
				1	99	23.24
				50	25	22.57
				100	0	22.45
	1745	20300		1	0	23.38
				1	99	23.14
				50	25	22.74
				100	0	22.65
16QAM	1720	20050	20	1	0	22.47
				1	99	22.59
				50	25	21.61
				100	0	21.67
	1732.5	20175		1	0	22.81
				1	99	22.56
				50	25	21.59
				100	0	21.47
	1745	20300		1	0	22.67
				1	99	22.45
				50	25	21.75
				100	0	21.63
64QAM	1720	20050	20	1	0	22.45
				1	99	22.53
				50	25	21.58
				100	0	21.57
	1732.5	20175		1	0	22.79
				1	99	22.67
				50	25	21.56
				100	0	21.49
	1745	20300		1	0	22.57
				1	99	22.53
				50	25	21.68
				100	0	21.62

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	
4	1710.7	19957	1.4	6	0	1.0818	Fig.1	1.0823	Fig.2	1.0790	Fig.3
	1732.5	20175		6	0	1.0810	Fig.4	1.0767	Fig.5	1.0801	Fig.6
	1754.3	20393		6	0	1.0795	Fig.7	1.0782	Fig.8	1.0793	Fig.9
	1711.5	19965	3	15	0	2.6850	Fig.10	2.6836	Fig.11	2.6892	Fig.12
	1732.5	20175		15	0	2.6811	Fig.13	2.6818	Fig.14	2.6862	Fig.15
	1753.5	20385		15	0	2.6761	Fig.16	2.6860	Fig.17	2.6838	Fig.18
	1712.5	19975	5	25	0	4.4704	Fig.19	4.4762	Fig.20	4.4856	Fig.21
	1732.5	20175		25	0	4.4695	Fig.22	4.4675	Fig.23	4.4728	Fig.24
	1752.5	20375		25	0	4.4820	Fig.25	4.4721	Fig.26	4.4739	Fig.27
	1715	20000	10	50	0	8.9626	Fig.28	8.9534	Fig.29	8.9703	Fig.30
	1732.5	20175		50	0	8.9649	Fig.31	8.9414	Fig.32	8.9533	Fig.33
	1750	20350		50	0	8.9526	Fig.34	8.9490	Fig.35	8.9403	Fig.36
	1717.5	20025	15	75	0	13.469	Fig.37	13.478	Fig.38	13.478	Fig.39
	1732.5	20175		75	0	13.401	Fig.40	13.400	Fig.41	13.444	Fig.42
	1747.5	20325		75	0	13.416	Fig.43	13.410	Fig.44	13.443	Fig.45
	1720	20050	20	100	0	17.901	Fig.46	17.912	Fig.47	17.954	Fig.48
	1732.5	20175		100	0	17.820	Fig.49	17.819	Fig.50	17.827	Fig.51
	1745	20300		100	0	17.865	Fig.52	17.873	Fig.53	17.868	Fig.54

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1710.7	19957	1.4	6	0	1.240	Fig.1	1.234	Fig.2	1.240	Fig.3
	1732.5	20175		6	0	1.235	Fig.4	1.239	Fig.5	1.228	Fig.6
	1754.3	20393		6	0	1.231	Fig.7	1.231	Fig.8	1.233	Fig.9
	1711.5	19965	3	15	0	2.892	Fig.10	2.876	Fig.11	2.874	Fig.12
	1732.5	20175		15	0	2.886	Fig.13	2.891	Fig.14	2.883	Fig.15
	1753.5	20385		15	0	2.858	Fig.16	2.879	Fig.17	2.876	Fig.18
	1712.5	19975	5	25	0	4.862	Fig.19	4.800	Fig.20	4.824	Fig.21
	1732.5	20175		25	0	4.832	Fig.22	4.807	Fig.23	4.824	Fig.24
	1752.5	20375		25	0	4.758	Fig.25	4.867	Fig.26	4.852	Fig.27
	1715	20000	10	50	0	9.516	Fig.28	9.539	Fig.29	9.531	Fig.30
	1732.5	20175		50	0	9.599	Fig.31	9.494	Fig.32	9.519	Fig.33
	1750	20350		50	0	9.484	Fig.34	9.496	Fig.35	9.556	Fig.36
	1717.5	20025	15	75	0	14.39	Fig.37	14.22	Fig.38	14.22	Fig.39
	1732.5	20175		75	0	14.27	Fig.40	14.29	Fig.41	14.25	Fig.42
	1747.5	20325		75	0	14.24	Fig.43	14.23	Fig.44	14.38	Fig.45
	1720	20050	20	100	0	18.96	Fig.46	18.85	Fig.47	18.87	Fig.48
	1732.5	20175		100	0	18.81	Fig.49	18.88	Fig.50	18.81	Fig.51
	1745	20300		100	0	19.08	Fig.52	18.98	Fig.53	19.11	Fig.54

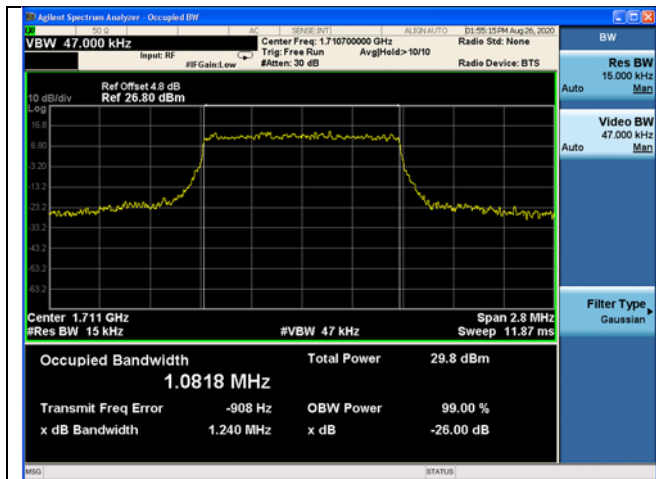


Fig.1

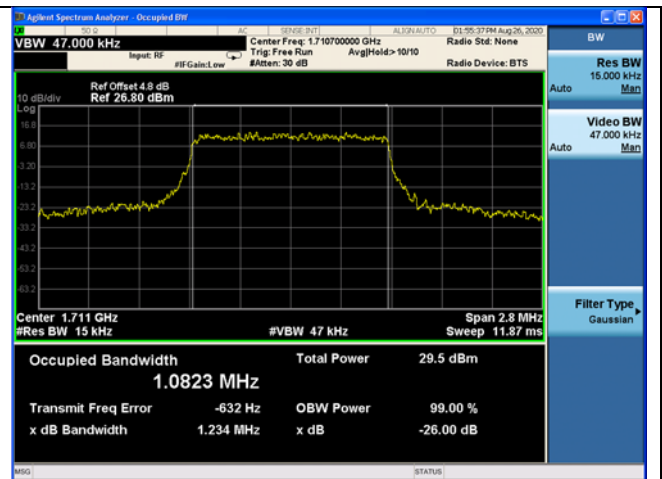


Fig.2

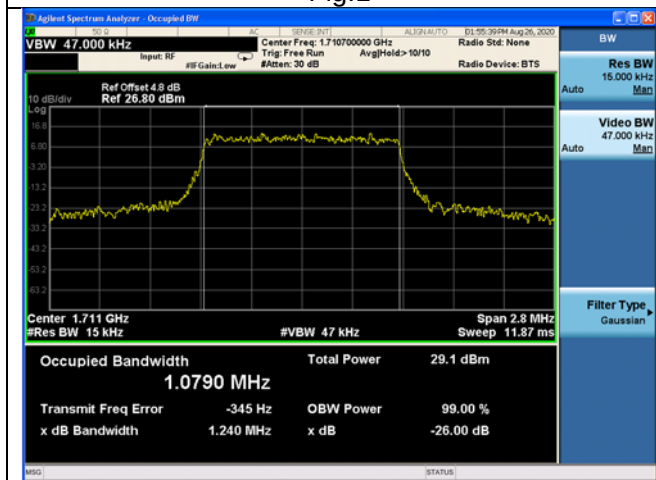


Fig.3

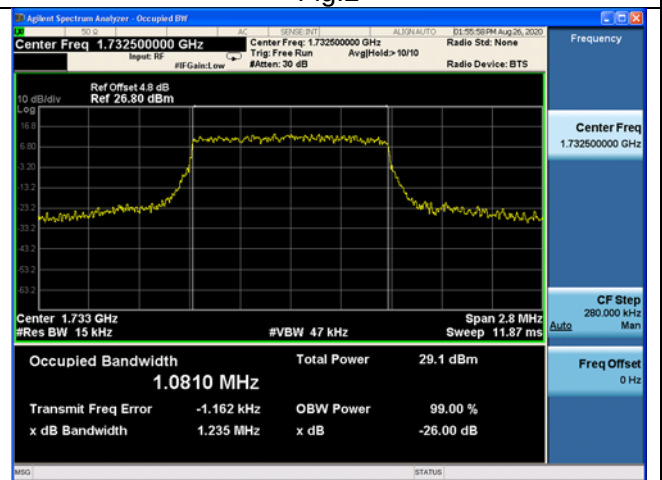


Fig.4

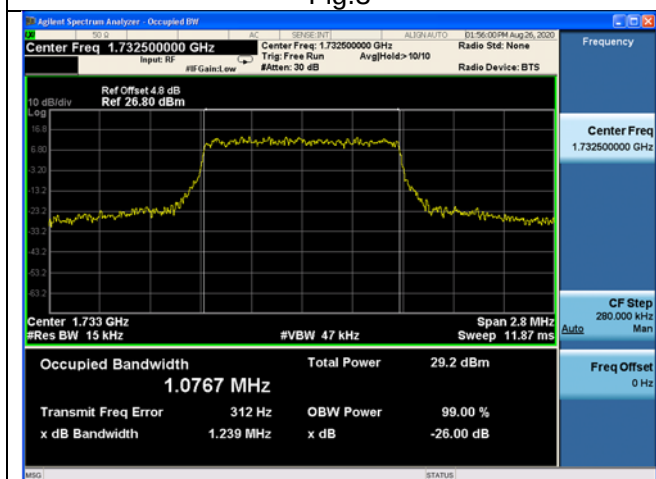


Fig.5

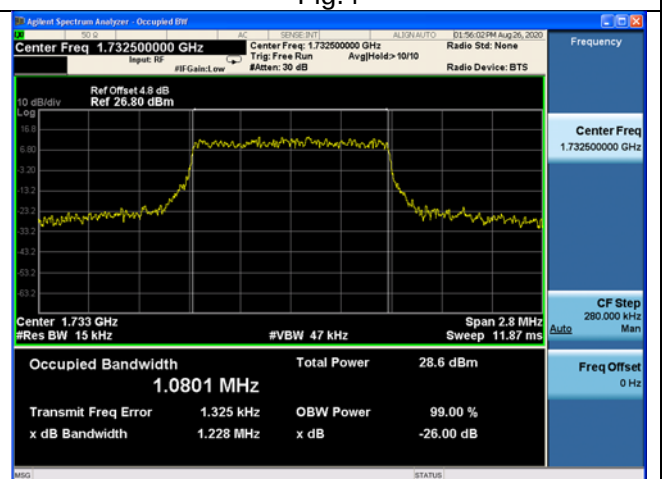


Fig.6

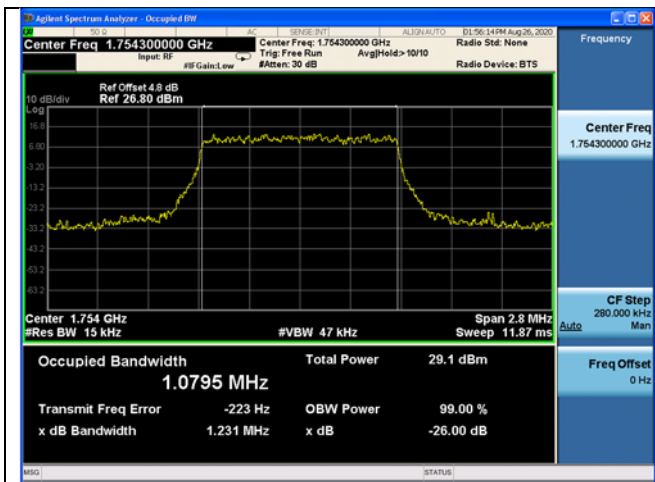


Fig.7

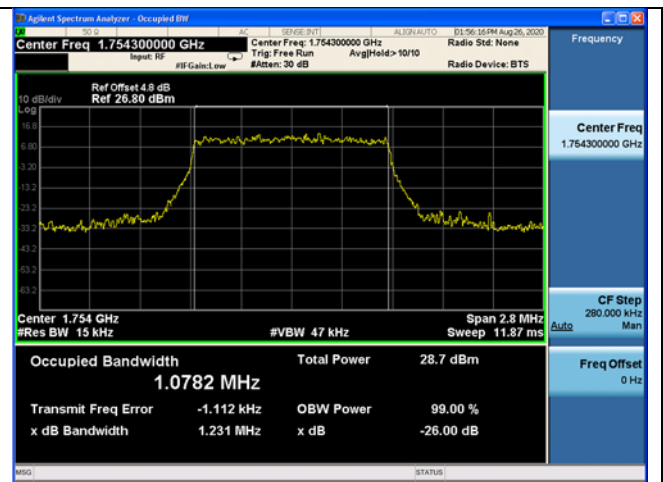


Fig.8

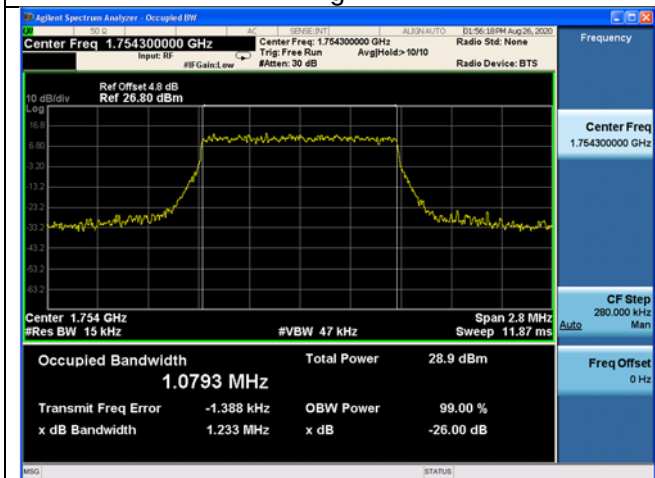


Fig.9

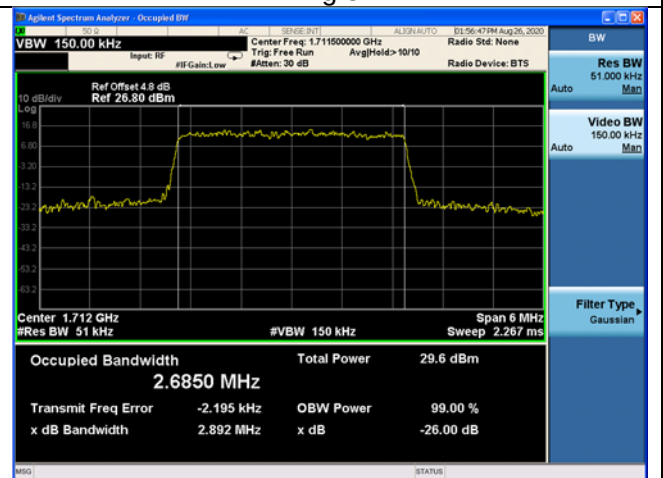


Fig.10

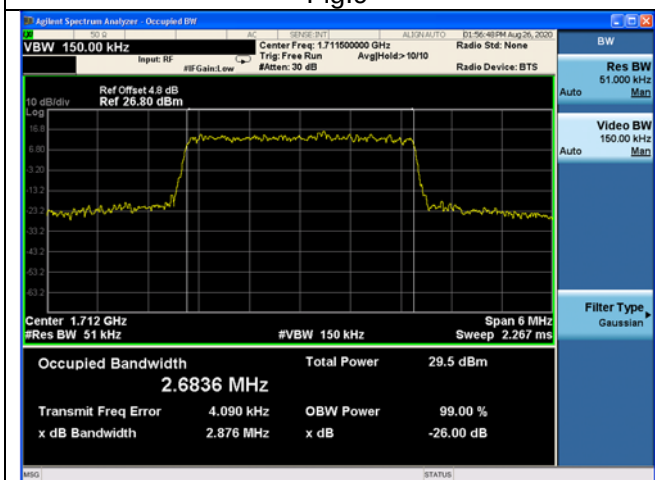


Fig.11

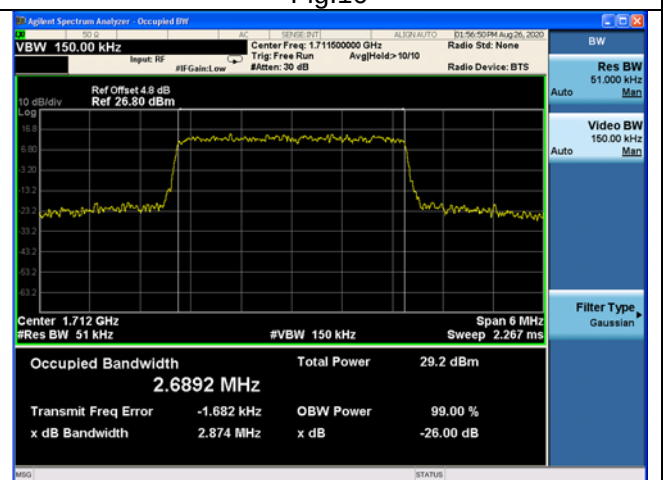


Fig.12

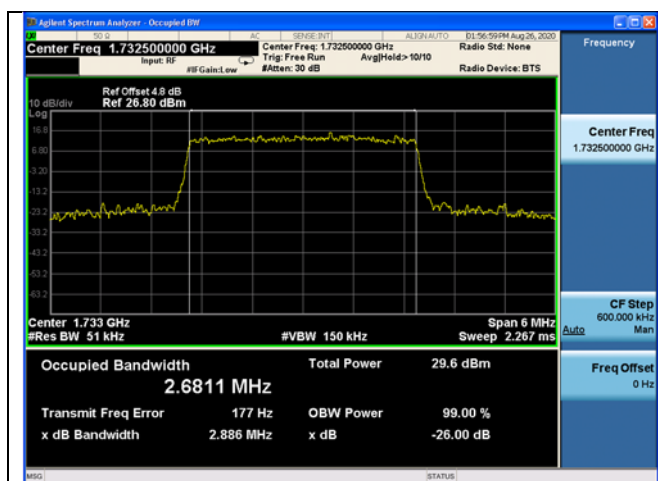


Fig.13

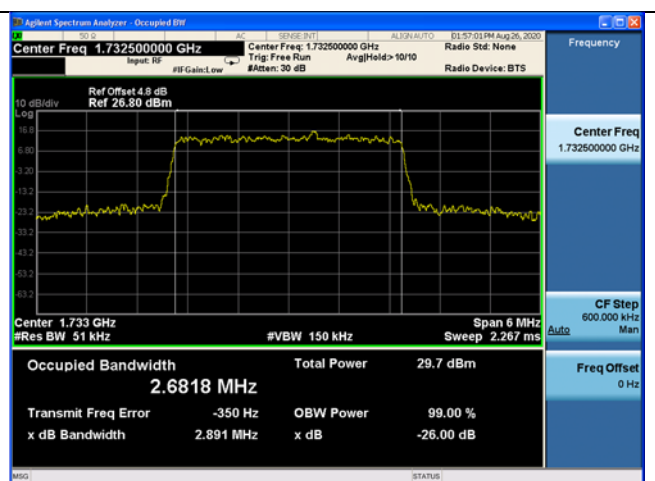


Fig.14

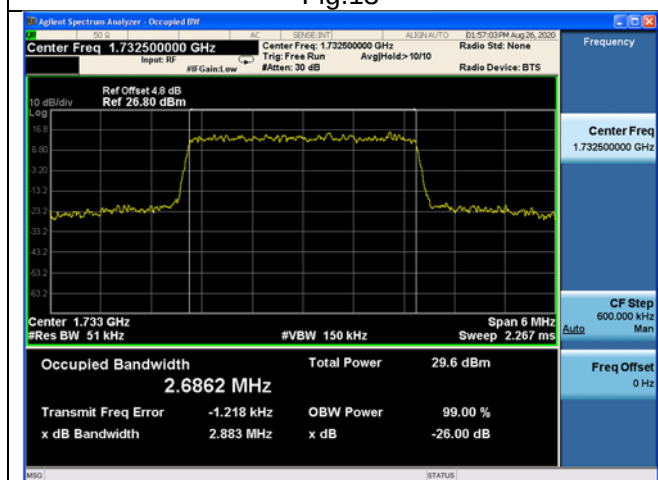


Fig.15

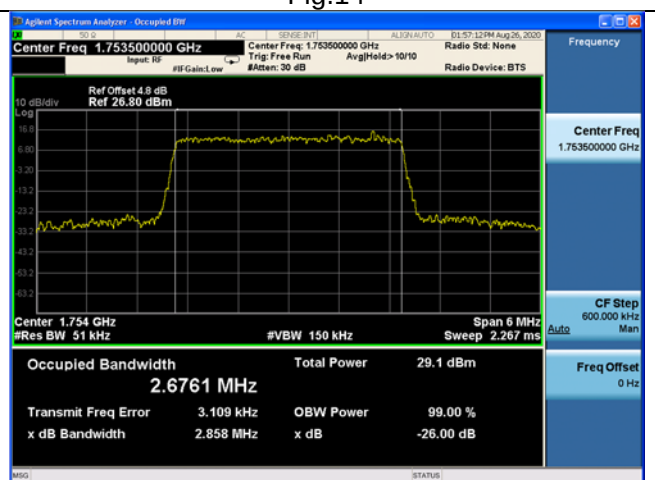


Fig.16

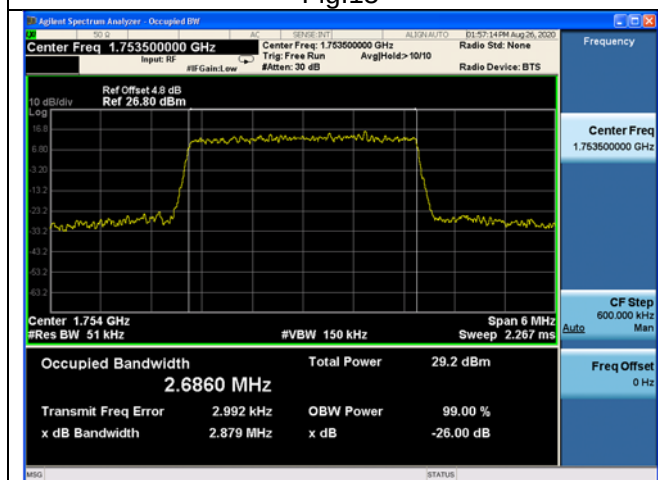


Fig.17

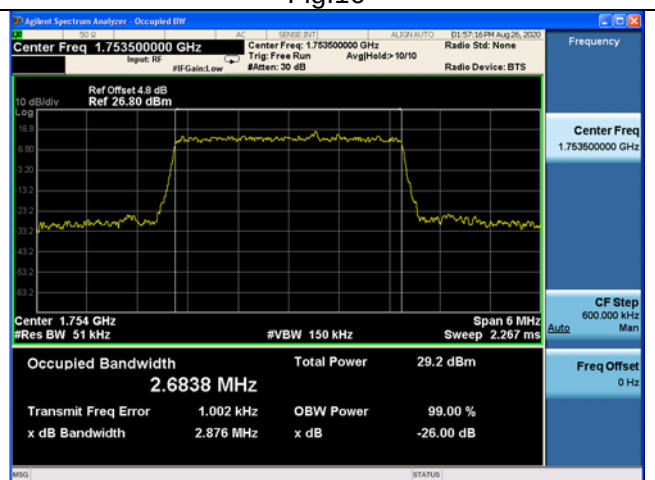


Fig.18

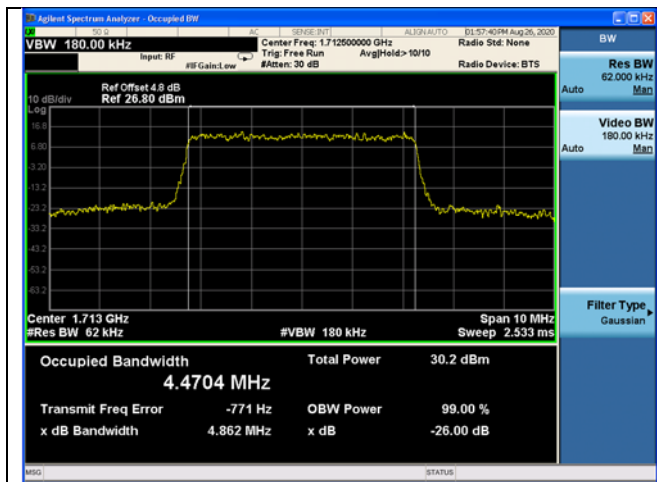


Fig.19

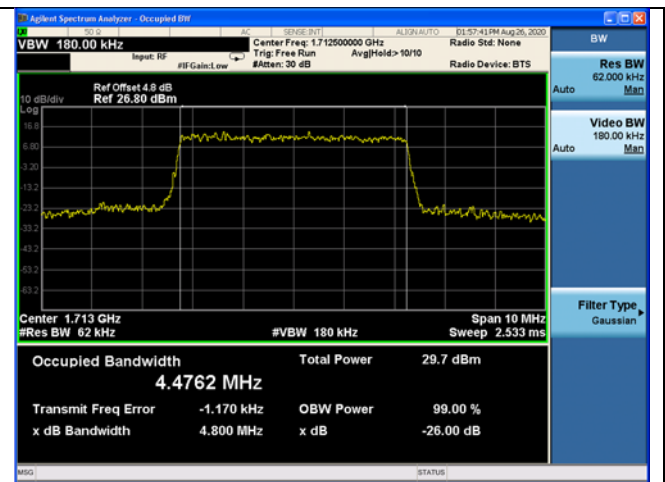


Fig.20

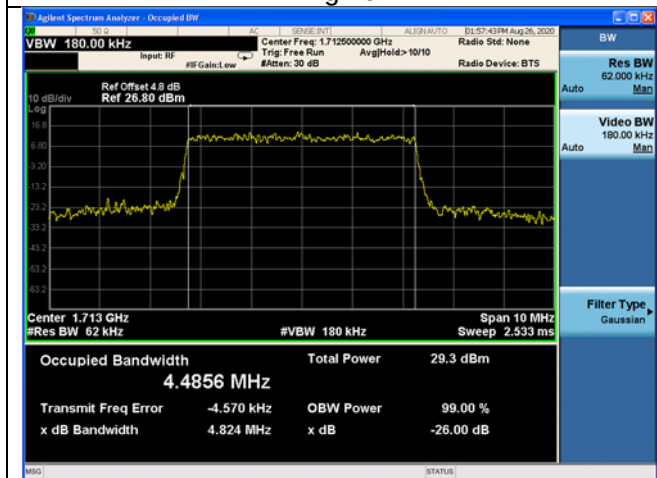


Fig.21

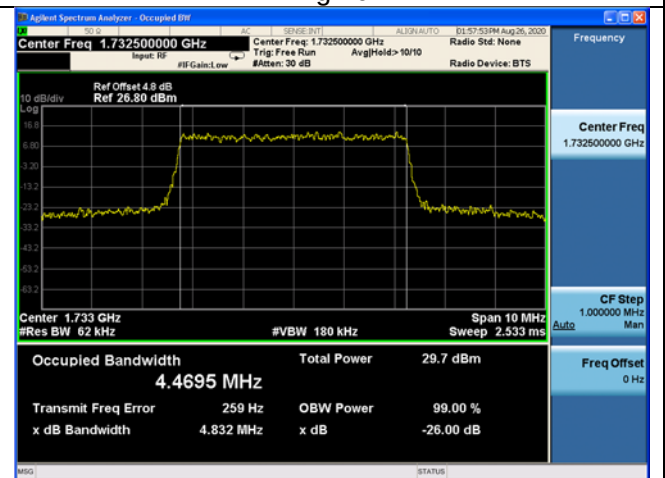


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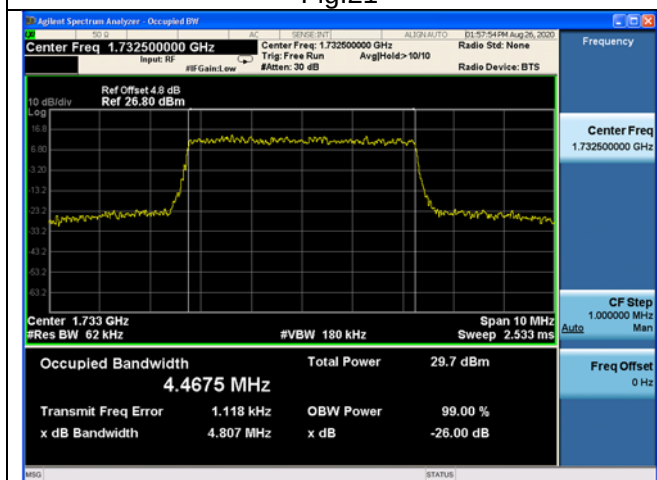


Fig.23

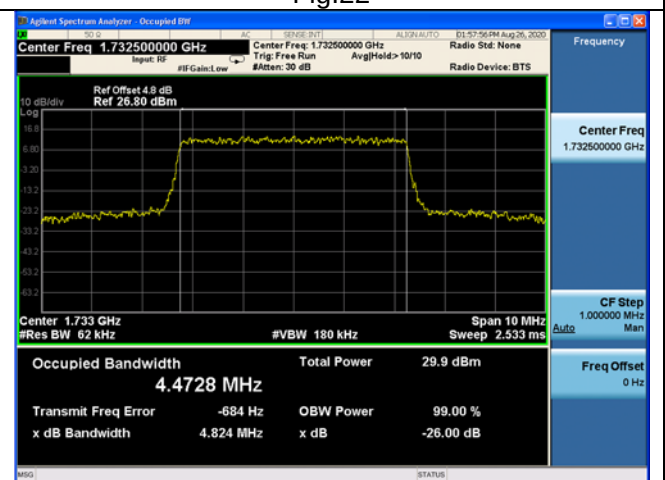


Fig.24

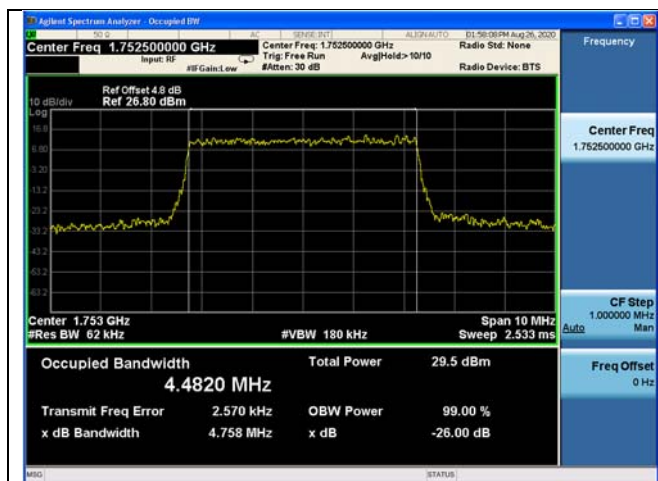


Fig.25

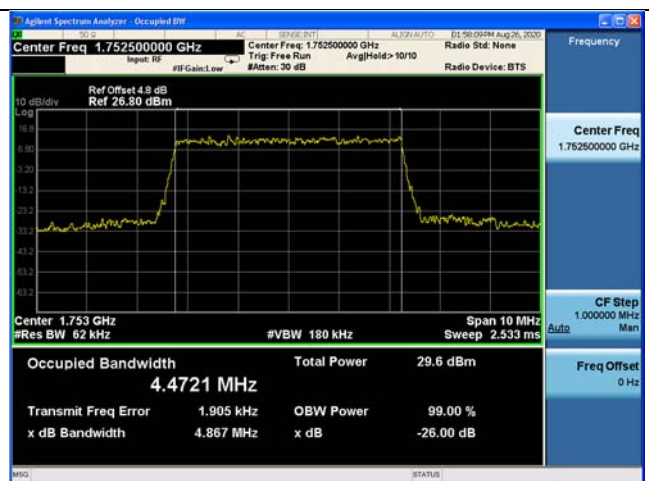


Fig.26

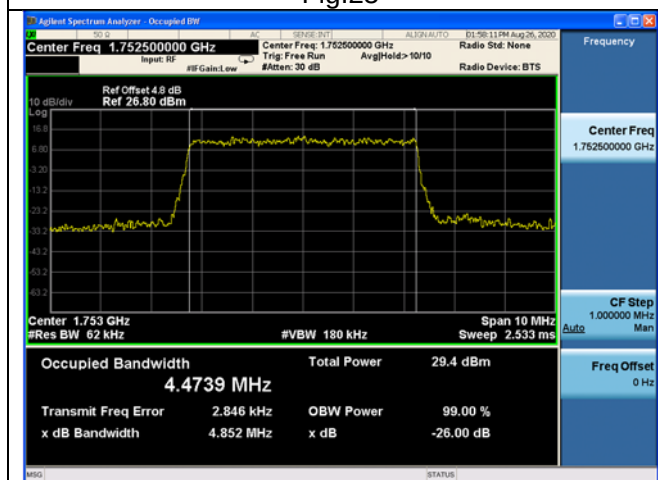


Fig.27

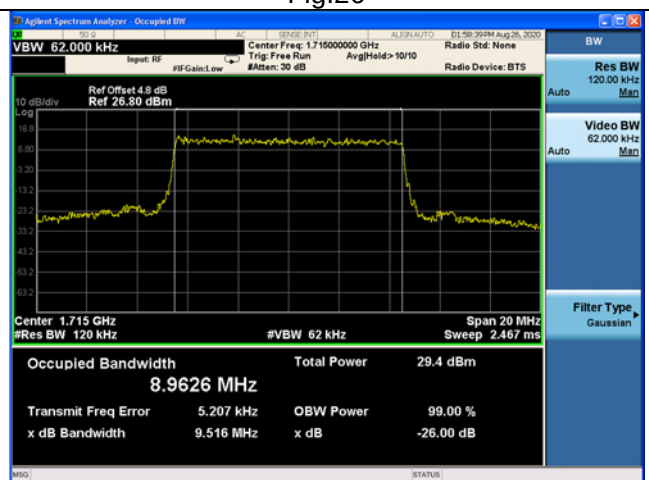


Fig.28

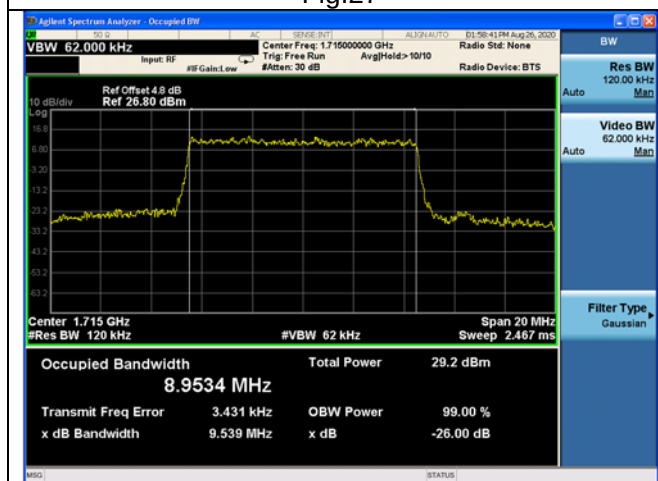


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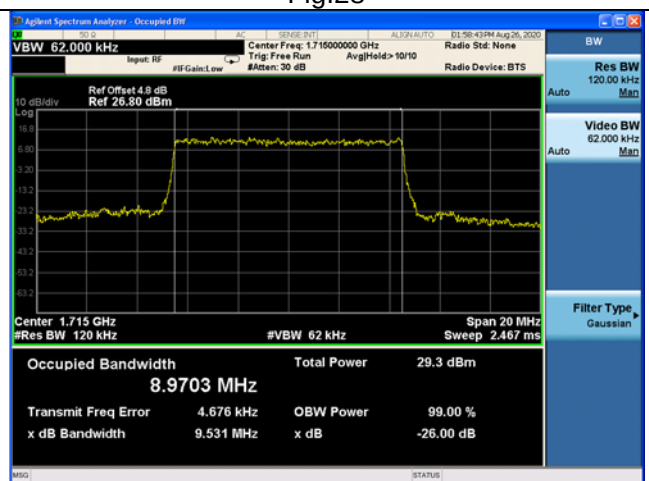


Fig.30

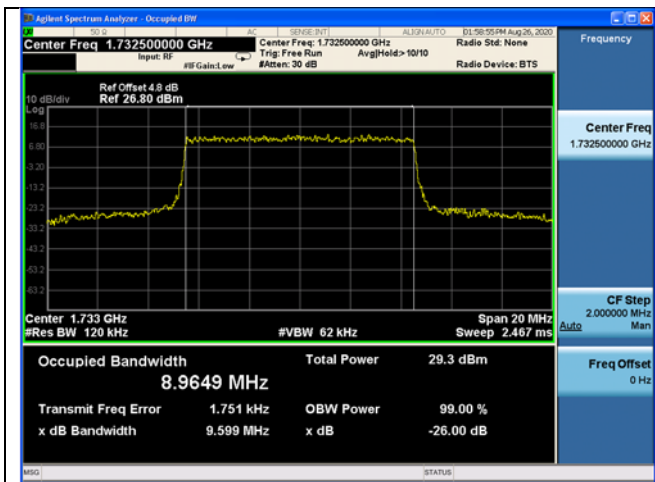


Fig.31

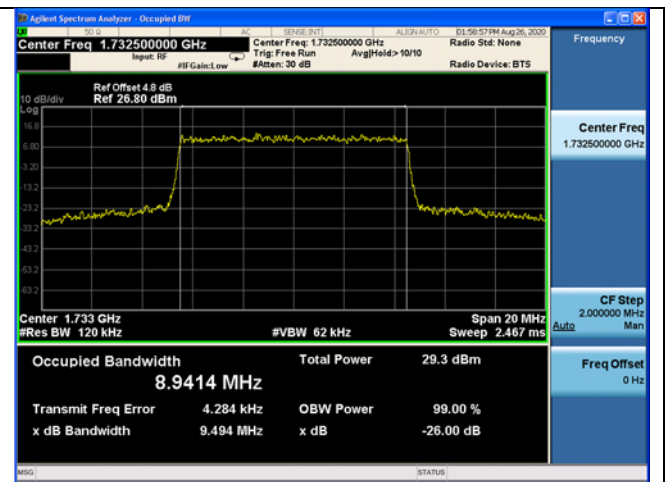


Fig.32

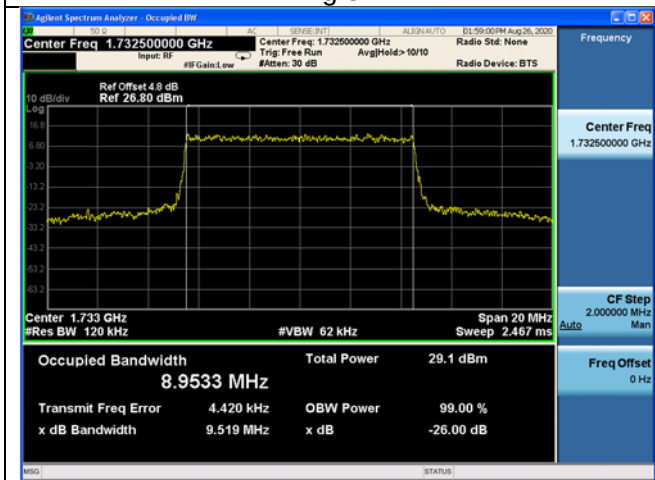


Fig.33

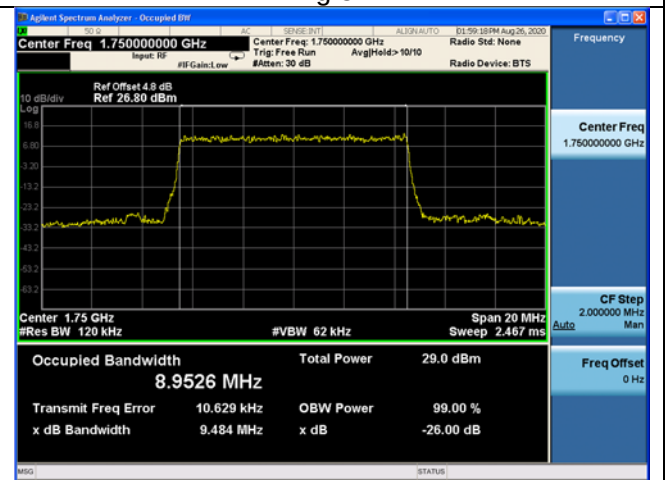


Fig.34

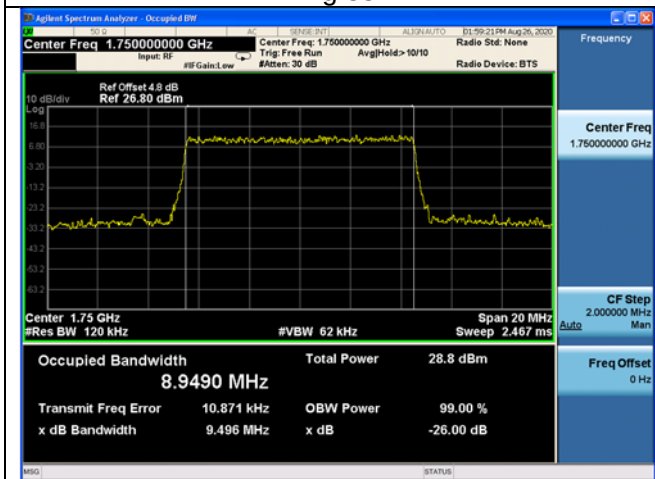


Fig.35

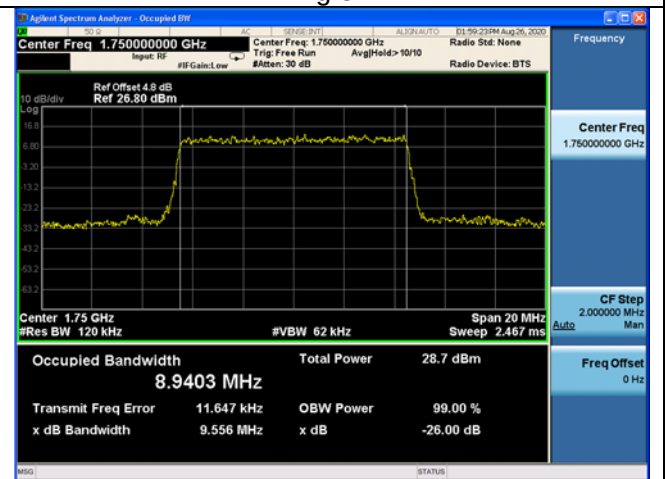


Fig.36

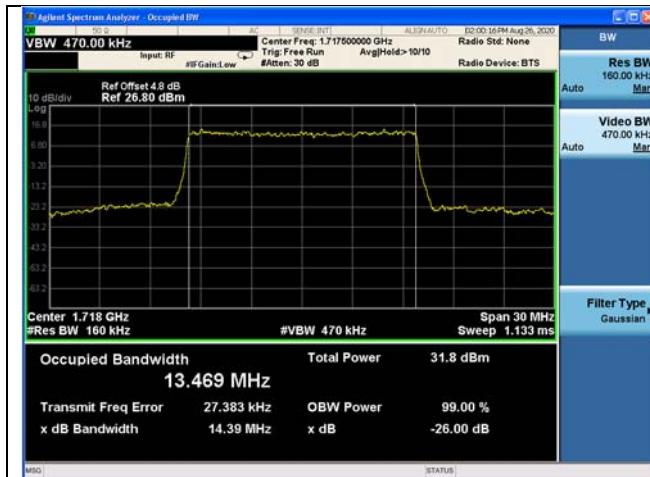


Fig.37

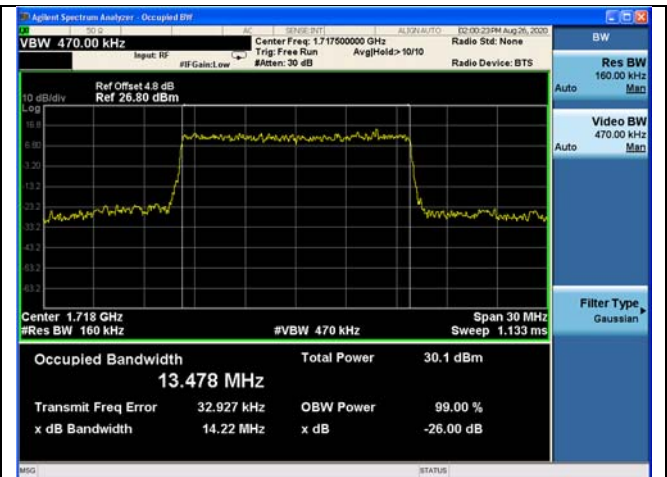


Fig.38

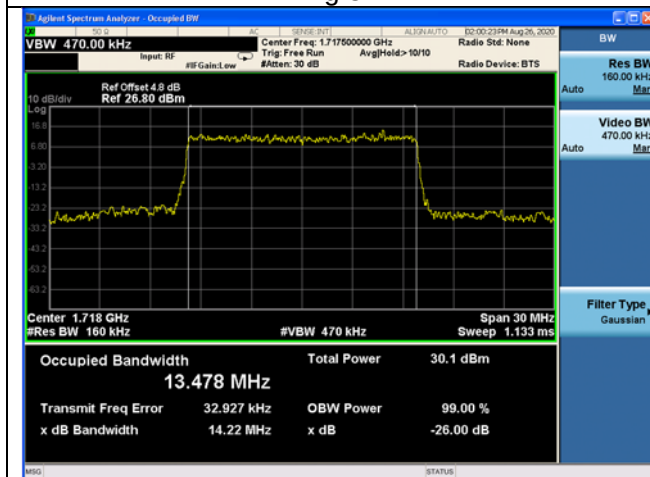


Fig.39

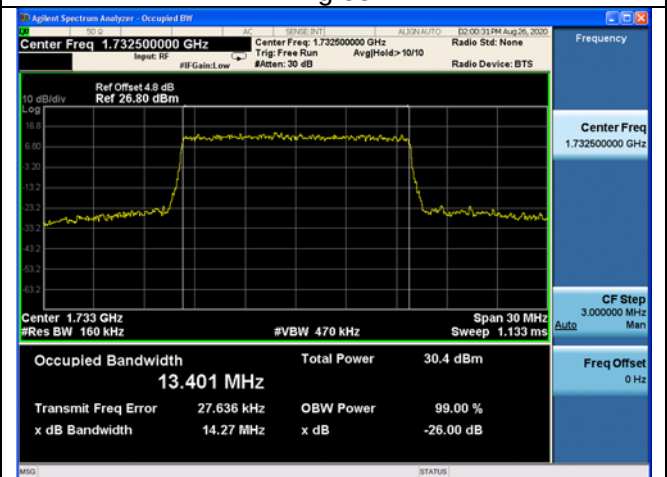


Fig.40

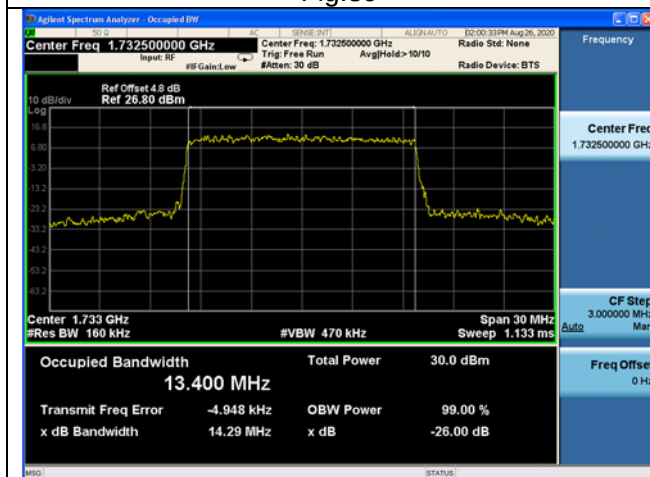


Fig.41

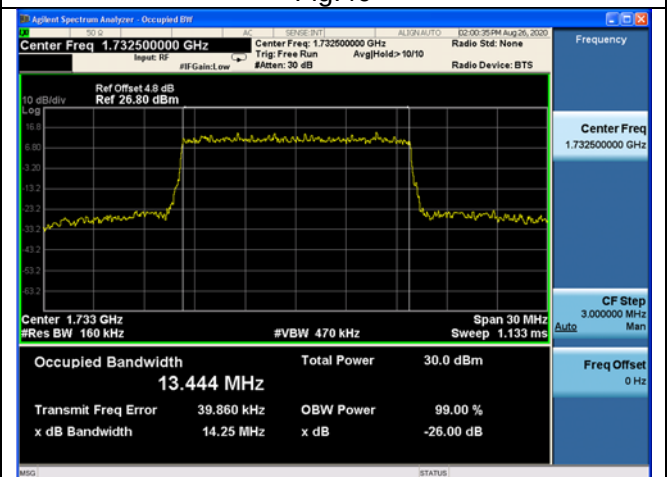


Fig.42

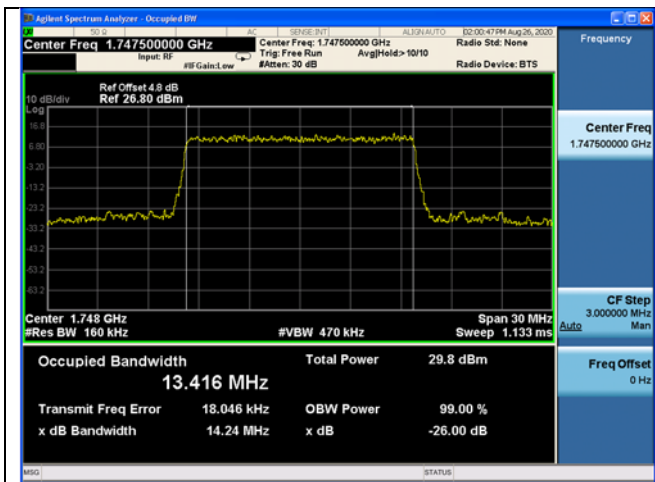


Fig.43

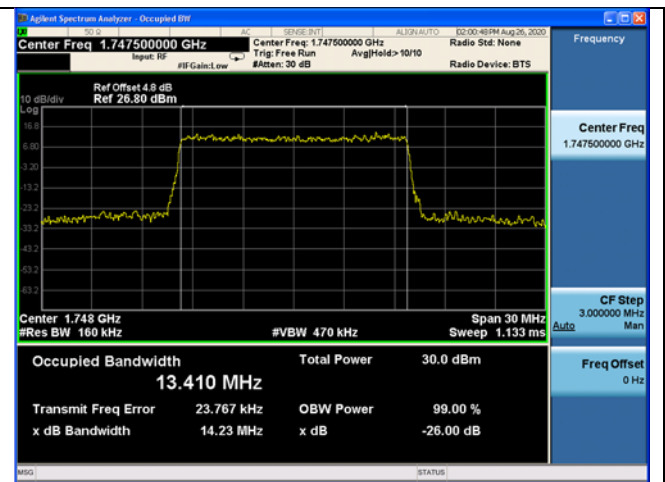


Fig.44

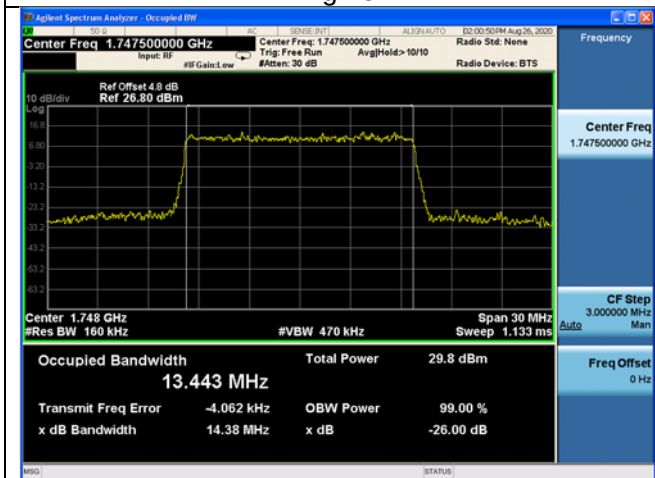


Fig.45

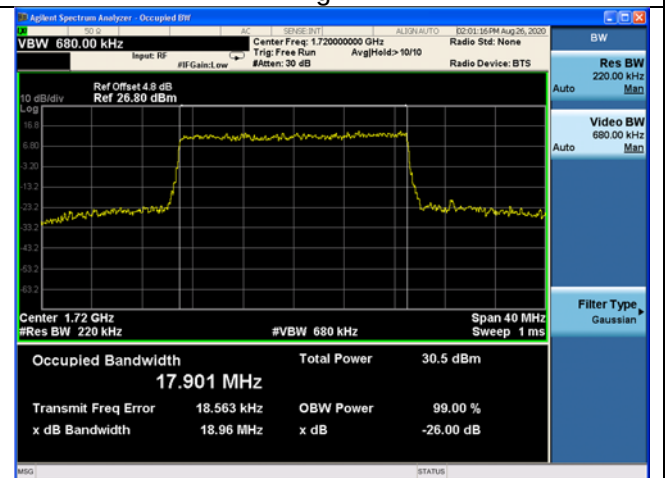


Fig.46

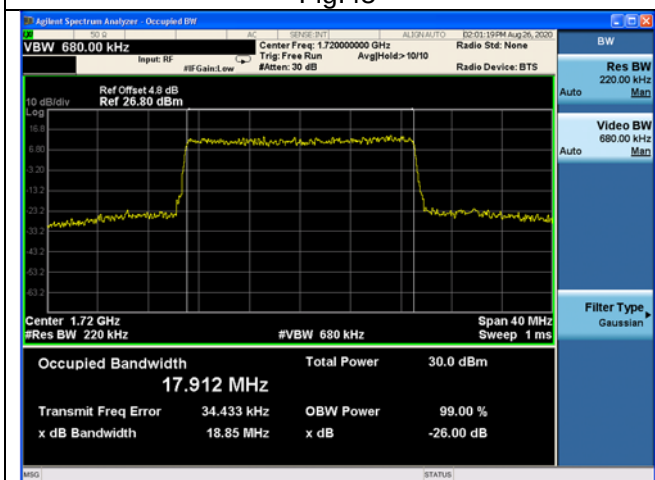


Fig.47

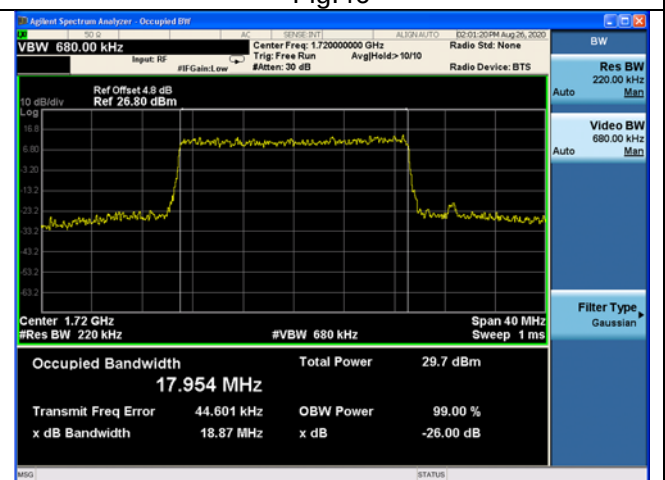


Fig.48

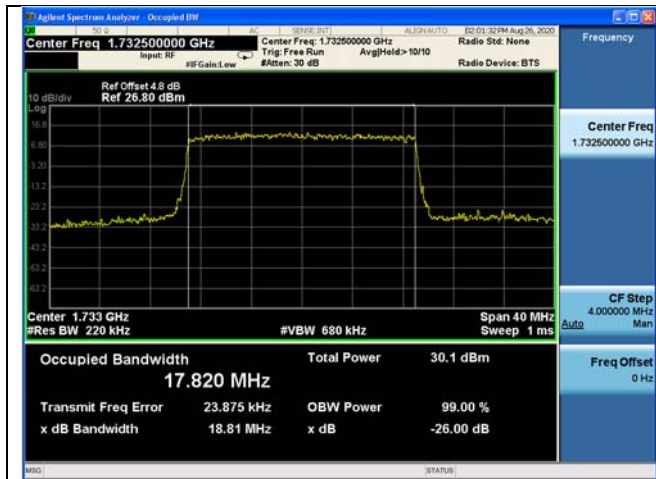


Fig.49



Fig.50

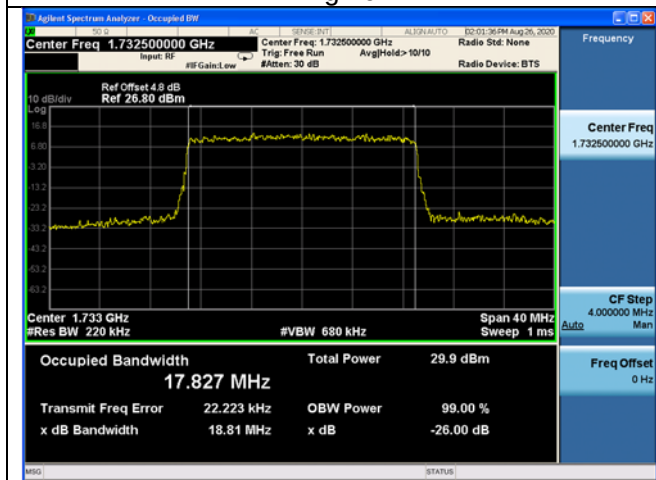


Fig.51

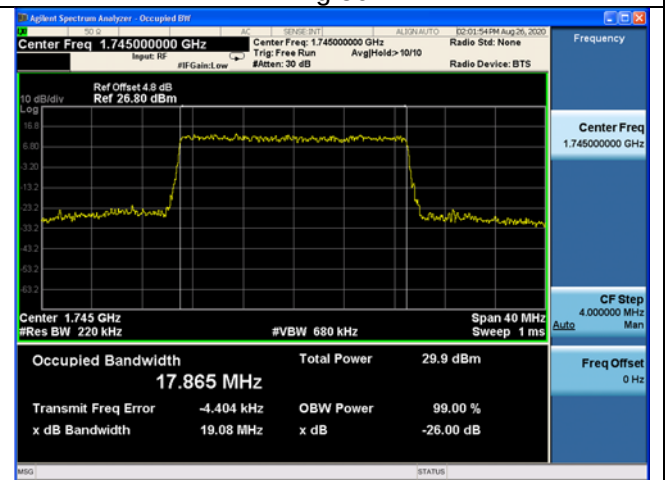


Fig.52

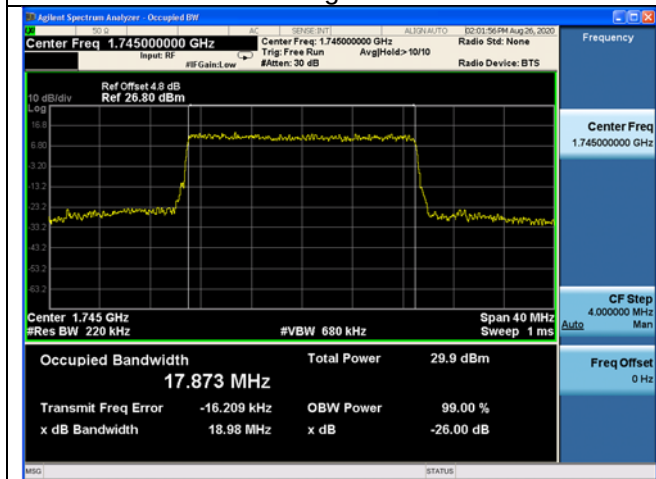


Fig.53

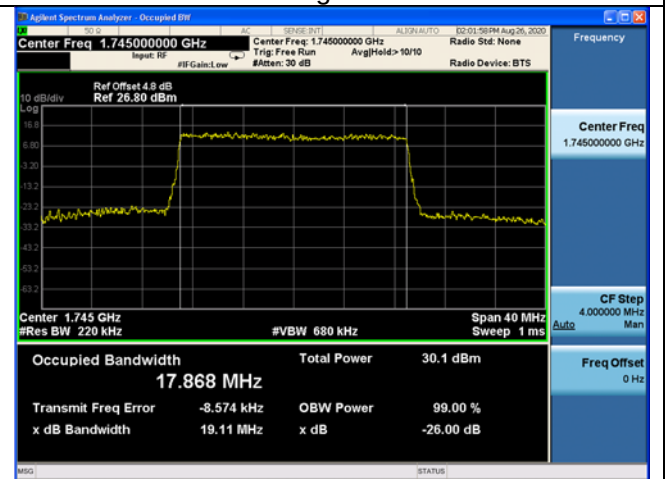


Fig.54

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
4	1732.5	20175	1.4	1	0	Fig.1	Fig.2	Fig.3
			3	1	0	Fig.4	Fig.5	Fig.6
			5	1	0	Fig.7	Fig.8	Fig.9
			10	1	0	Fig.10	Fig.11	Fig.12
			15	1	0	Fig.13	Fig.14	Fig.15
			20	1	0	Fig.16	Fig.17	Fig.18

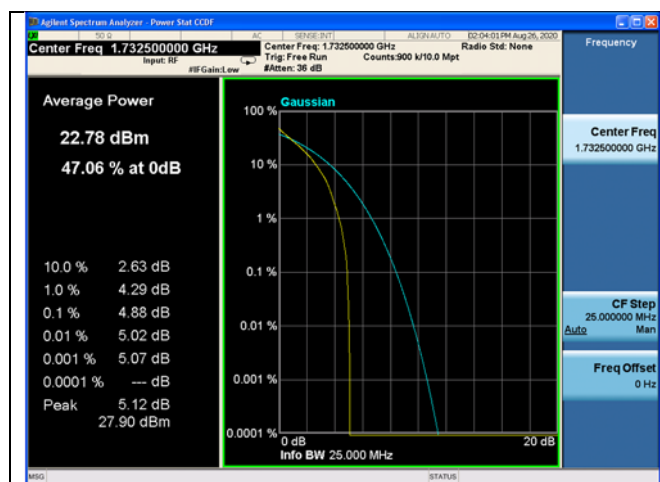


Fig.1

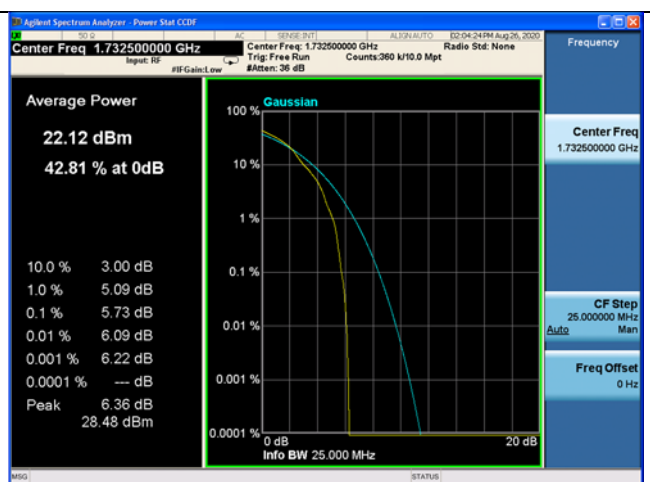


Fig.2

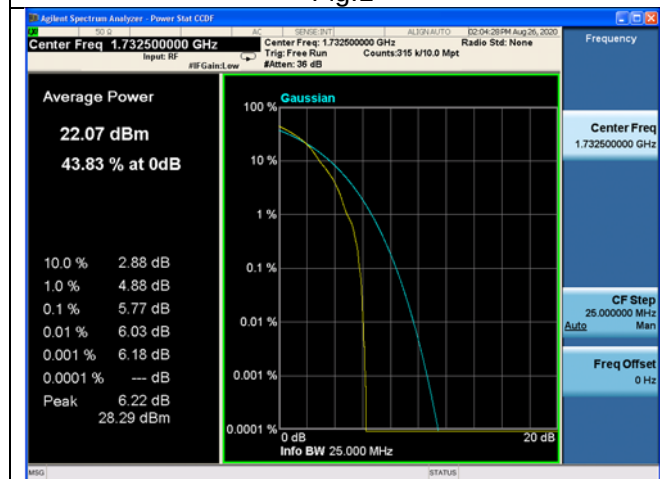


Fig.3

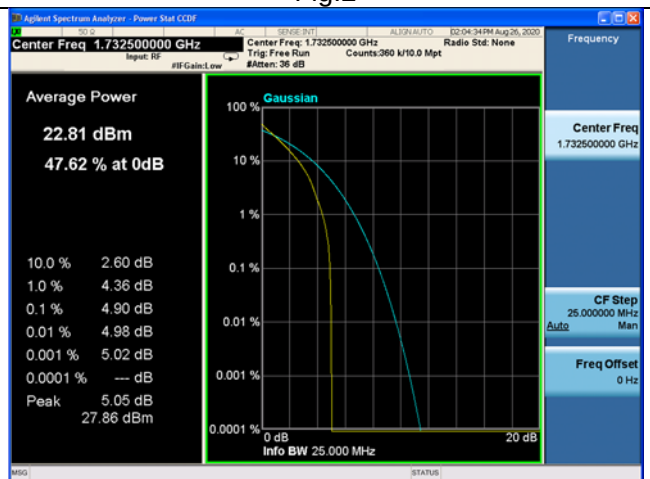


Fig.4

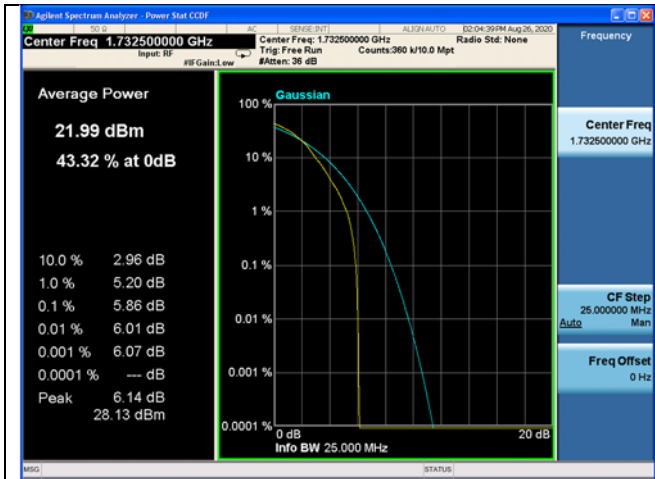


Fig.5

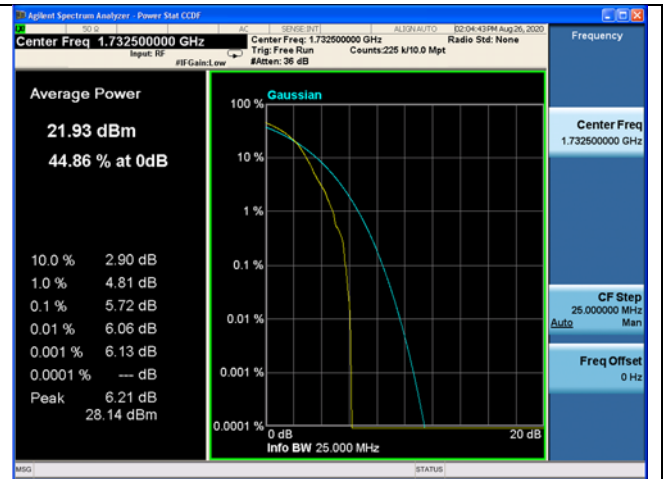


Fig.6

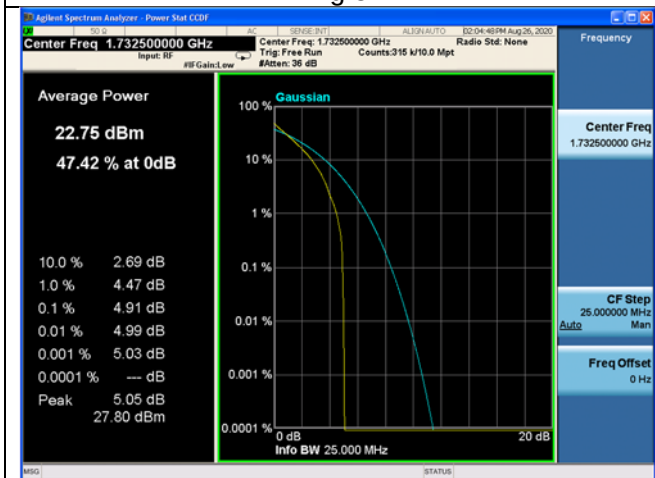


Fig.7

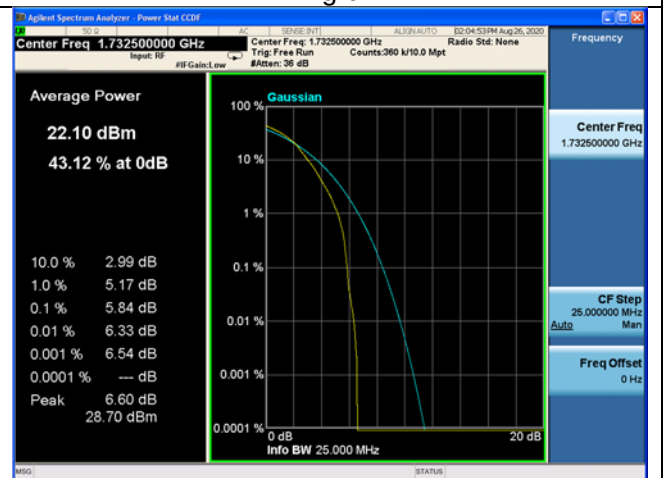


Fig.8

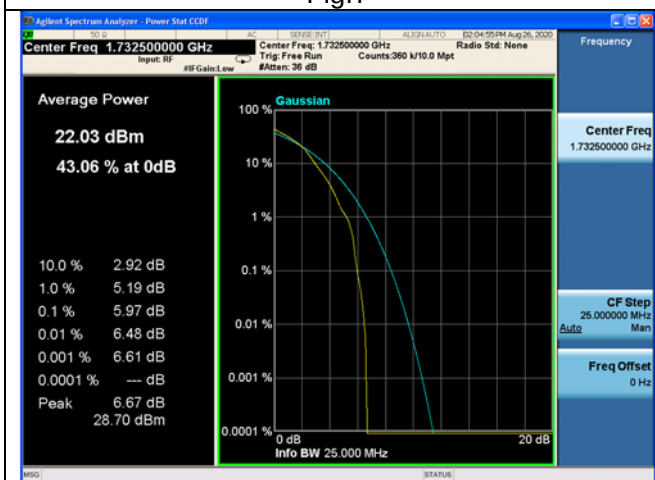


Fig.9

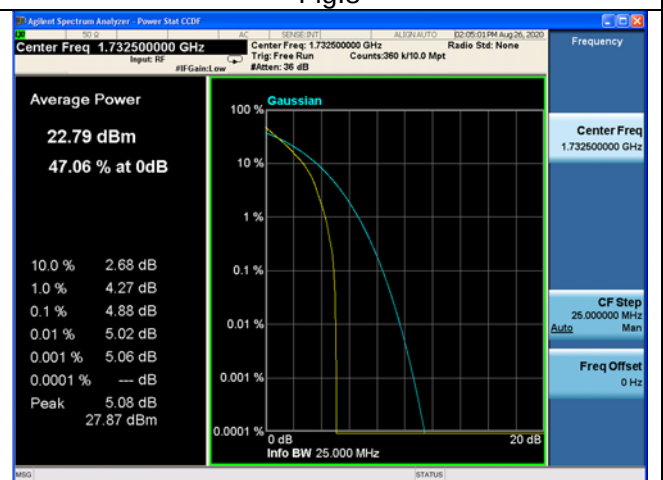


Fig.10