APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 41 CA_41C

1 RF Power Output

OUTPUT POWER FOR LTE BAND 41 (5.0MHz + 20.0MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)
5MHz / 20MHz	2499.3	2511	QPSK	1	24	1	0	26.46
				25	0	100	0	24.26
			16QAM	1	24	1	0	25.20
				25	0	100	0	23.18
			64QAM	1	24	1	0	25.42
				25	0	100	0	23.20
	2583.8	2595.9	QPSK	1	24	1	0	26.51
				25	0	100	0	24.44
			16QAM	1	24	1	0	25.24
				25	0	100	0	23.40
			64QAM	1	24	1	0	25.36
				25	0	100	0	23.31
	2668.3	2680	QPSK	1	24	1	0	26.48
				25	0	100	0	24.42
			16QAM	1	24	1	0	25.34
				25	0	100	0	23.37
			64QAM	1	24	1	0	25.37
				25	0	100	0	23.37

OUTPUT POWER FOR LTE BAND 41 (20MHz + 5MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)
20MHz/ 5MHz	2506	2517.7	QPSK	1	99	1	0	26.52
				100	0	25	0	24.34
			16QAM	1	99	1	0	25.16
				100	0	25	0	23.15
			64QAM	1	99	1	0	25.36
				100	0	25	0	23.17
	2590.5	2602.2	QPSK	1	99	1	0	26.38
				100	0	25	0	24.35
			16QAM	1	99	1	0	25.28
				100	0	25	0	23.35
			64QAM	1	99	1	0	25.31
				100	0	25	0	23.24
	2675	2686.7	QPSK	1	99	1	0	26.47
				100	0	25	0	24.50
			16QAM	1	99	1	0	25.28
				100	0	25	0	23.28
			64QAM	1	99	1	0	25.47
				100	0	25	0	23.42

OUTPUT POWER FOR LTE BAND 41 (10MHz + 15MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)
10MHz/ 15MHz	2501.3	2513.3	QPSK	1	49	1	0	26.52
				50	0	75	0	24.32
			16QAM	1	49	1	0	25.16
				50	0	75	0	23.15
			64QAM	1	49	1	0	25.41
				50	0	75	0	23.19
	2585.9	2597.9	QPSK	1	49	1	0	26.41
				50	0	75	0	24.43
			16QAM	1	49	1	0	25.28
				50	0	75	0	23.39
			64QAM	1	49	1	0	25.34
				50	0	75	0	23.29
	2670.5	2682.5	QPSK	1	49	1	0	26.45
				50	0	75	0	24.42
			16QAM	1	49	1	0	25.35
				50	0	75	0	23.36
			64QAM	1	49	1	0	25.42
				50	0	75	0	23.29

OUTPUT POWER FOR LTE BAND 41 (15MHz + 10MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)
15MHz/ 10MHz	2503.5	2515.5	QPSK	1	49	1	0	26.47
				50	0	75	0	24.36
			16QAM	1	49	1	0	25.23
				50	0	75	0	23.17
			64QAM	1	49	1	0	25.42
				50	0	75	0	23.21
	2588.1	2600.1	QPSK	1	49	1	0	26.38
				50	0	75	0	24.43
			16QAM	1	49	1	0	25.29
				50	0	75	0	23.41
			64QAM	1	49	1	0	25.32
				50	0	75	0	23.29
	2672.7	2684.7	QPSK	1	49	1	0	26.53
				50	0	75	0	24.39
			16QAM	1	49	1	0	25.31
				50	0	75	0	23.27
			64QAM	1	49	1	0	25.34
				50	0	75	0	23.29

OUTPUT POWER FOR LTE BAND 41 (10MHz + 20MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)
10MHz/ 20MHz	2501.5	2515.9	QPSK	1	49	1	0	26.47
				50	0	100	0	24.28
			16QAM	1	49	1	0	25.18
				50	0	100	0	23.18
			64QAM	1	49	1	0	25.38
				50	0	100	0	23.19
	2583.6	2598.0	QPSK	1	49	1	0	26.51
				50	0	100	0	24.42
			16QAM	1	49	1	0	25.24
				50	0	100	0	23.44
			64QAM	1	49	1	0	25.21
				50	0	100	0	23.31
	2665.6	2680	QPSK	1	49	1	0	26.55
				50	0	100	0	24.37
			16QAM	1	49	1	0	25.37
				50	0	100	0	23.31
			64QAM	1	49	1	0	25.37
				50	0	100	0	23.35

OUTPUT POWER FOR LTE BAND 41 (20MHz + 10MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)
20MHz/ 10MHz	2506	2520.4	QPSK	1	99	1	0	26.44
				100	0	50	0	24.32
			16QAM	1	99	1	0	25.21
				100	0	50	0	23.15
			64QAM	1	99	1	0	25.40
				100	0	50	0	23.29
	2588.1	2602.5	QPSK	1	99	1	0	26.43
				100	0	50	0	24.34
			16QAM	1	99	1	0	25.38
				100	0	50	0	23.33
			64QAM	1	99	1	0	25.35
				100	0	50	0	23.33
	2670.1	2684.5	QPSK	1	99	1	0	26.47
				100	0	50	0	24.50
			16QAM	1	99	1	0	25.41
				100	0	50	0	23.36
			64QAM	1	99	1	0	25.37
				100	0	50	0	23.38

OUTPUT POWER FOR LTE BAND 41 (15MHz + 15MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)
15MHz/ 15MHz	2503.5	2518.5	QPSK	1	74	1	0	26.39
				75	0	75	0	24.25
			16QAM	1	74	1	0	25.26
				75	0	75	0	23.12
			64QAM	1	74	1	0	25.28
				75	0	75	0	23.20
	2585.5	2600.5	QPSK	1	74	1	0	26.38
				75	0	75	0	24.33
			16QAM	1	74	1	0	25.32
				75	0	75	0	23.39
			64QAM	1	74	1	0	25.33
				75	0	75	0	23.37
	2667.5	2682.5	QPSK	1	74	1	0	26.54
				75	0	75	0	24.43
			16QAM	1	74	1	0	25.40
				75	0	75	0	23.35
			64QAM	1	74	1	0	25.35
				75	0	75	0	23.34

OUTPUT POWER FOR LTE BAND 41 (15MHz + 20MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)
15MHz/ 20MHz	2503.8	2520.9	QPSK	1	74	1	0	26.47
				75	0	100	0	24.36
			16QAM	1	74	1	0	25.20
				75	0	100	0	23.19
			64QAM	1	74	1	0	25.36
				75	0	100	0	23.21
	2583.3	2600.4	QPSK	1	74	1	0	26.52
				75	0	100	0	24.43
			16QAM	1	74	1	0	25.25
				75	0	100	0	23.32
			64QAM	1	74	1	0	25.31
				75	0	100	0	23.25
	2662.9	2680	QPSK	1	74	1	0	26.50
				75	0	100	0	24.45
			16QAM	1	74	1	0	25.32
				75	0	100	0	23.22
			64QAM	1	74	1	0	25.38
				75	0	100	0	23.39

OUTPUT POWER FOR LTE BAND 41 (20MHz + 15MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)
20MHz/ 15MHz	2506	2523.1	QPSK	1	74	1	0	26.38
				75	0	100	0	24.30
			16QAM	1	74	1	0	25.14
				75	0	100	0	23.22
			64QAM	1	74	1	0	25.41
				75	0	100	0	23.25
	2585.6	2602.7	QPSK	1	74	1	0	26.48
				75	0	100	0	24.44
			16QAM	1	74	1	0	25.30
				75	0	100	0	23.32
			64QAM	1	74	1	0	25.28
				75	0	100	0	23.31
	2665.1	2682.2	QPSK	1	74	1	0	26.48
				75	0	100	0	24.49
			16QAM	1	74	1	0	25.35
				75	0	100	0	23.35
			64QAM	1	74	1	0	25.40
				75	0	100	0	23.39

OUTPUT POWER FOR LTE BAND 41 (20MHz + 20MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Conducted Average (dBm)
20MHz/ 20MHz	2506	2523.1	QPSK	1	99	1	0	26.52
				100	0	100	0	24.38
			16QAM	1	99	1	0	25.27
				100	0	100	0	23.27
			64QAM	1	99	1	0	25.42
				100	0	100	0	23.31
	2583.1	2602.9	QPSK	1	99	1	0	26.53
				100	0	100	0	24.47
			16QAM	1	99	1	0	25.38
				100	0	100	0	23.44
			64QAM	1	99	1	0	25.36
				100	0	100	0	23.38
	2660.2	2680	QPSK	1	99	1	0	26.56
				100	0	100	0	24.52
			16QAM	1	99	1	0	25.43
				100	0	100	0	23.37
			64QAM	1	99	1	0	25.48
				100	0	100	0	23.42

2 Occupied Bandwidth

LTE BAND 41

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	99% OBW (MHz)	-26dB OBW (MHz)	Plot
5MHz/ 20MHz	2499.3	2511	QPSK	25	0	100	0	22.845	23.71	Fig.1
			16QAM	25	0	100	0	22.787	23.59	Fig.2
			64QAM	25	0	100	0	22.795	23.70	Fig.3
	2583.8	2595.9	QPSK	25	0	100	0	22.832	23.75	Fig.4
			16QAM	25	0	100	0	22.845	24.03	Fig.5
			64QAM	25	0	100	0	22.864	23.93	Fig.6
	2668.3	2680	QPSK	25	0	100	0	22.815	23.92	Fig.7
			16QAM	25	0	100	0	22.801	24.12	Fig.8
			64QAM	25	0	100	0	22.856	24.03	Fig.9
20MHz/ 5MHz	2506	2517.7	QPSK	100	0	25	0	22.854	23.92	Fig.10
			16QAM	100	0	25	0	22.865	23.72	Fig.11
			64QAM	100	0	25	0	22.824	23.74	Fig.12
	2590.5	2602.2	QPSK	100	0	25	0	22.799	23.80	Fig.13
			16QAM	100	0	25	0	22.836	23.58	Fig.14
			64QAM	100	0	25	0	22.796	23.62	Fig.15
	2675	2686.7	QPSK	100	0	25	0	22.852	23.80	Fig.16
			16QAM	100	0	25	0	22.847	23.66	Fig.17
			64QAM	100	0	25	0	22.807	23.62	Fig.18
10MHz/ 15MHz	2501.3	2513.3	QPSK	50	0	75	0	23.138	24.37	Fig.19
			16QAM	50	0	75	0	23.177	24.08	Fig.20
			64QAM	50	0	75	0	23.164	24.03	Fig.21
	2585.9	2597.9	QPSK	50	0	75	0	23.089	24.18	Fig.22
			16QAM	50	0	75	0	23.087	24.15	Fig.23
			64QAM	50	0	75	0	23.096	24.00	Fig.24
	2670.5	2682.5	QPSK	50	0	75	0	23.067	24.11	Fig.25
			16QAM	50	0	75	0	23.084	24.06	Fig.26
			64QAM	50	0	75	0	23.089	24.58	Fig.27
15MHz/ 10MHz	2503.5	2515.5	QPSK	75	0	50	0	23.084	24.10	Fig.28
			16QAM	75	0	50	0	23.150	24.07	Fig.29
			64QAM	75	0	50	0	23.037	23.98	Fig.30
	2588.1	2600.1	QPSK	75	0	50	0	23.044	24.07	Fig.31
			16QAM	75	0	50	0	23.117	24.03	Fig.32
			64QAM	75	0	50	0	23.123	24.07	Fig.33
	2672.7	2684.7	QPSK	75	0	50	0	23.068	24.08	Fig.34
			16QAM	75	0	50	0	23.111	23.99	Fig.35
			64QAM	75	0	50	0	23.120	24.31	Fig.36

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	99% OBW (MHz)	-26dB OBW (MHz)	Plot
10MHz/ 20MHz	2501.5	2515.9	QPSK	50	0	100	0	27.735	29.08	Fig.37
			16QAM	50	0	100	0	27.761	29.00	Fig.38
			64QAM	50	0	100	0	27.796	29.01	Fig.39
	2583.6	2598.0	QPSK	50	0	100	0	27.697	29.04	Fig.40
			16QAM	50	0	100	0	27.734	29.33	Fig.41
			64QAM	50	0	100	0	27.730	28.83	Fig.42
	2665.6	2680	QPSK	50	0	100	0	27.700	28.70	Fig.43
			16QAM	50	0	100	0	27.715	28.86	Fig.44
			64QAM	50	0	100	0	27.693	28.77	Fig.45
20MHz/ 10MHz	2506	2520.4	QPSK	100	0	50	0	27.695	28.82	Fig.46
			16QAM	100	0	50	0	27.676	28.80	Fig.47
			64QAM	100	0	50	0	27.761	28.76	Fig.48
	2588.1	2602.5	QPSK	100	0	50	0	27.795	30.10	Fig.49
			16QAM	100	0	50	0	27.696	28.75	Fig.50
			64QAM	100	0	50	0	27.679	29.25	Fig.51
	2670.1	2684.5	QPSK	100	0	50	0	27.680	28.96	Fig.52
			16QAM	100	0	50	0	27.702	28.79	Fig.53
			64QAM	100	0	50	0	27.702	28.98	Fig.54
15MHz/ 15MHz	2503.5	2518.5	QPSK	75	0	75	0	28.277	30.02	Fig.55
			16QAM	75	0	75	0	28.286	29.56	Fig.56
			64QAM	75	0	75	0	28.358	29.66	Fig.57
	2585.5	2600.5	QPSK	75	0	75	0	28.360	29.79	Fig.58
			16QAM	75	0	75	0	28.360	29.79	Fig.59
			64QAM	75	0	75	0	28.299	29.41	Fig.60
	2667.5	2682.5	QPSK	75	0	75	0	28.284	29.57	Fig.61
			16QAM	75	0	75	0	28.296	29.36	Fig.62
			64QAM	75	0	75	0	28.275	29.42	Fig.63
15MHz/ 20MHz	2503.8	2520.9	QPSK	75	0	100	0	32.649	33.84	Fig.64
			16QAM	75	0	100	0	32.540	33.68	Fig.65
			64QAM	75	0	100	0	32.635	33.89	Fig.66
	2583.3	2600.4	QPSK	75	0	100	0	32.639	34.08	Fig.67
			16QAM	75	0	100	0	32.541	33.86	Fig.68
			64QAM	75	0	100	0	32.657	33.70	Fig.69
	2662.9	2680	QPSK	75	0	100	0	32.572	33.93	Fig.70
			16QAM	75	0	100	0	32.583	34.21	Fig.71
			64QAM	75	0	100	0	32.591	33.97	Fig.72

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	99% OBW (MHz)	-26dB OBW (MHz)	Plot
20MHz/ 15MHz	2506	2523.1	QPSK	100	0	75	0	32.585	33.90	Fig.73
			16QAM	100	0	75	0	32.612	34.65	Fig.74
			64QAM	100	0	75	0	32.564	33.83	Fig.75
	2585.6	2602.7	QPSK	100	0	75	0	32.548	33.83	Fig.76
			16QAM	100	0	75	0	32.550	34.09	Fig.77
			64QAM	100	0	75	0	32.573	34.00	Fig.78
	2665.1	2682.2	QPSK	100	0	75	0	32.563	35.28	Fig.79
			16QAM	100	0	75	0	32.620	33.95	Fig.80
			64QAM	100	0	75	0	32.689	33.87	Fig.81
20MHz/ 20MHz	2506	2523.1	QPSK	100	0	100	0	37.585	39.65	Fig.82
			16QAM	100	0	100	0	37.531	40.85	Fig.83
			64QAM	100	0	100	0	37.503	38.94	Fig.84
	2583.1	2602.9	QPSK	100	0	100	0	37.560	38.86	Fig.85
			16QAM	100	0	100	0	37.477	38.89	Fig.86
			64QAM	100	0	100	0	37.583	38.99	Fig.87
	2660.2	2680	QPSK	100	0	100	0	37.591	39.15	Fig.88
			16QAM	100	0	100	0	37.609	38.86	Fig.89
			64QAM	100	0	100	0	37.497	38.80	Fig.90

Fig.1

Fig.2

Fig.3

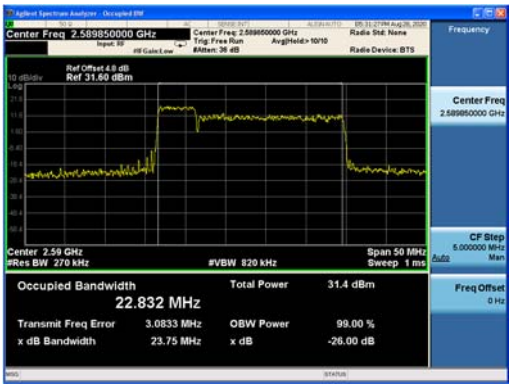

Fig.4

Fig.5

Fig.6

Fig.7

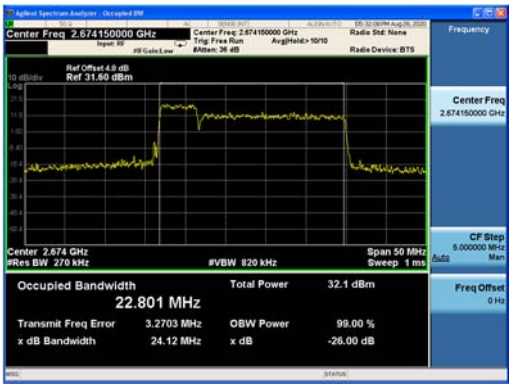

Fig.8

Fig.9

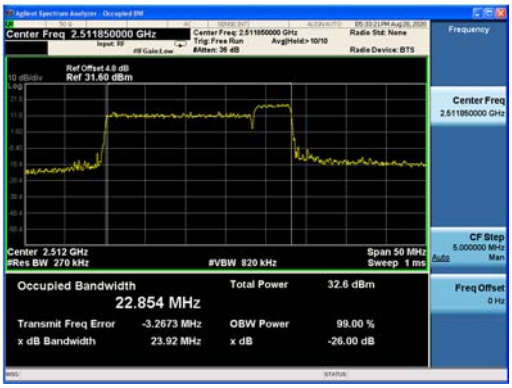

Fig.10

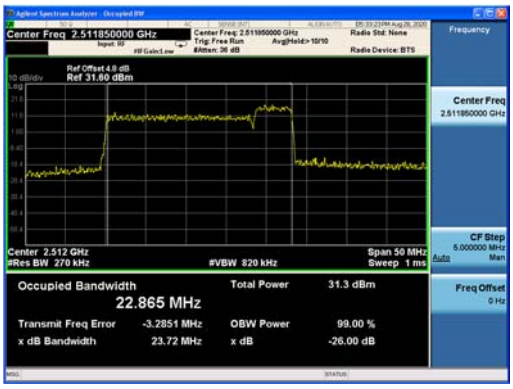

Fig.11

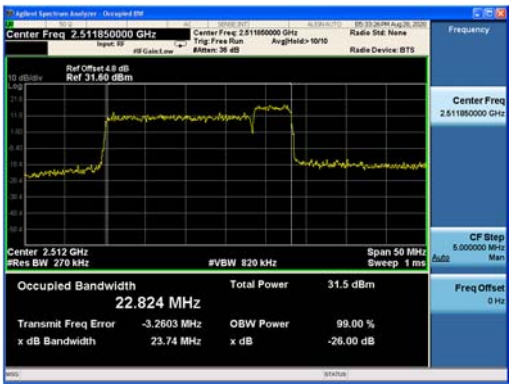

Fig.12

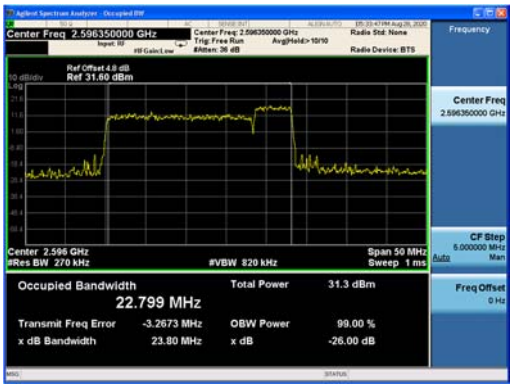

Fig.13

Fig.14

Fig.15

Fig.16

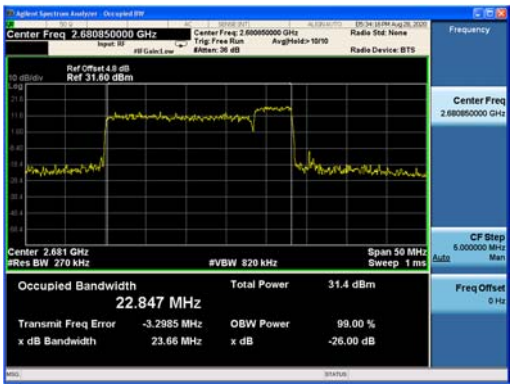

Fig.17

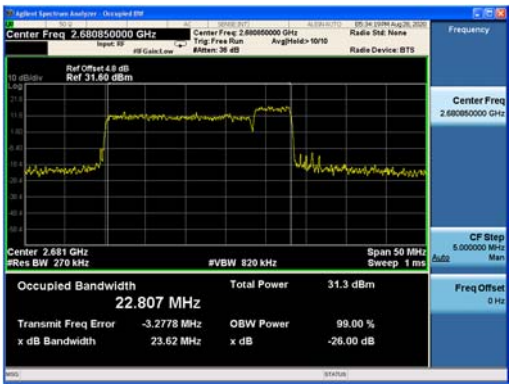

Fig.18

Fig.19

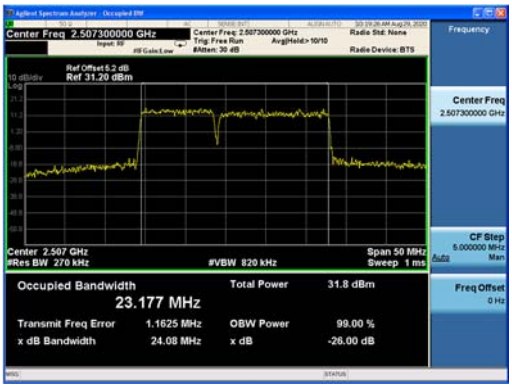

Fig.20

Fig.21

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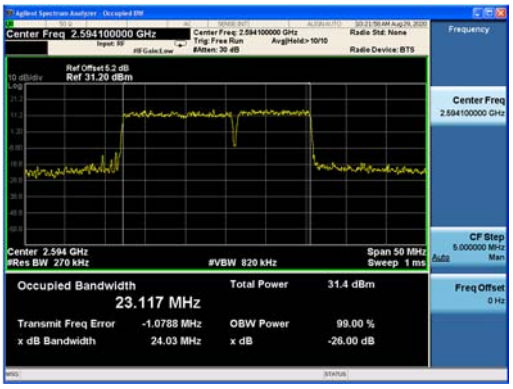
Fig.31



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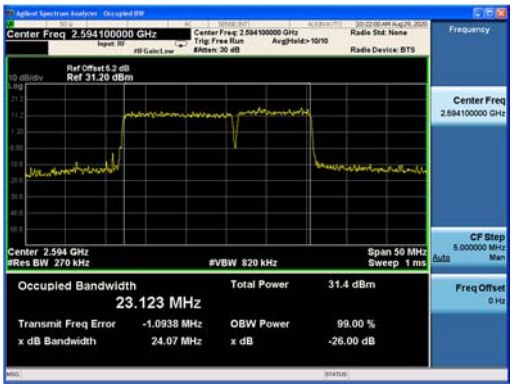

Fig.33

Fig.34

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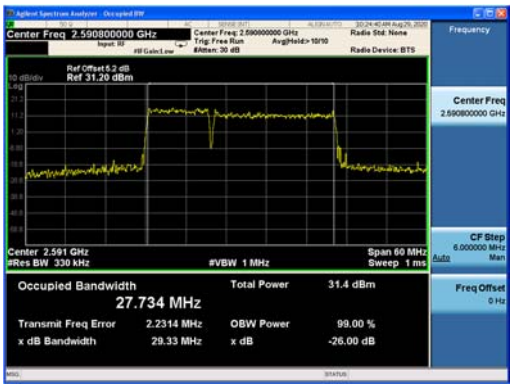

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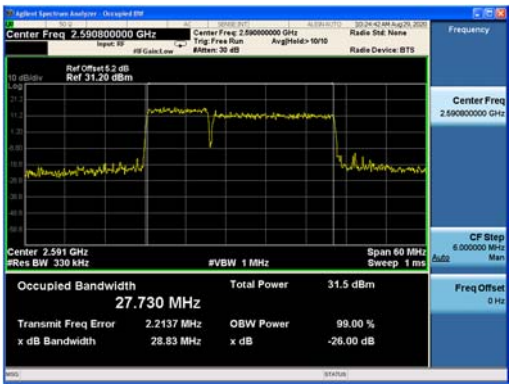
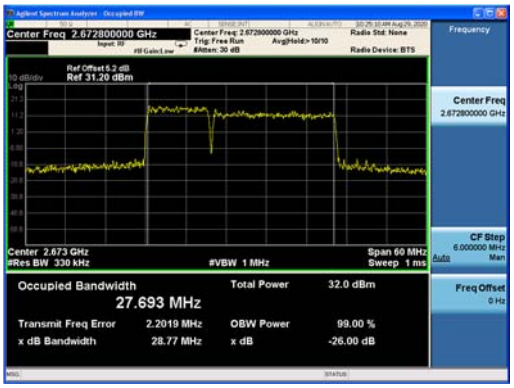


Fig.42

Fig.43

Fig.44



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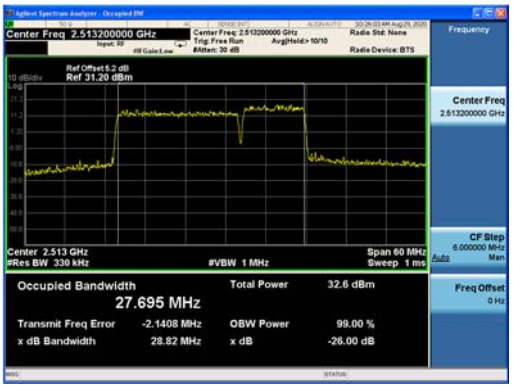


Fig.46

Fig.47

Fig.48

Fig.49

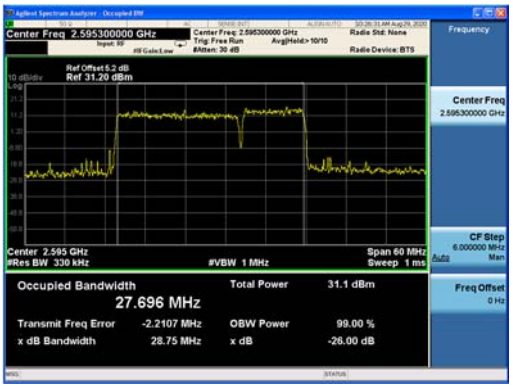
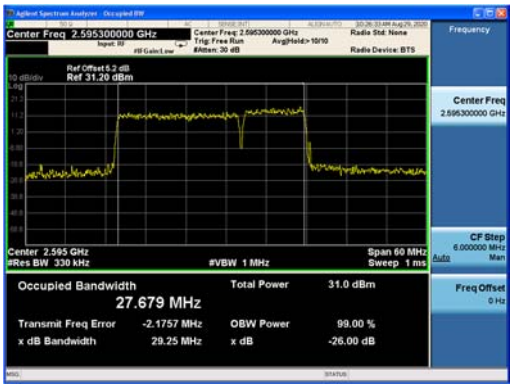


Fig.50



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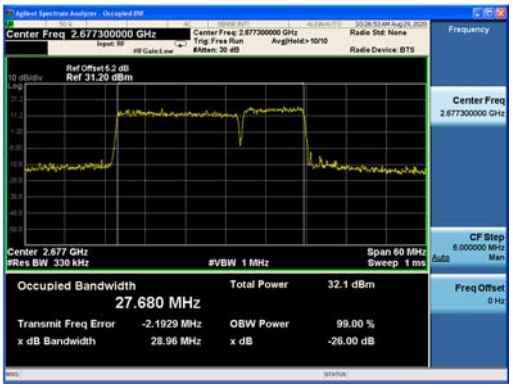

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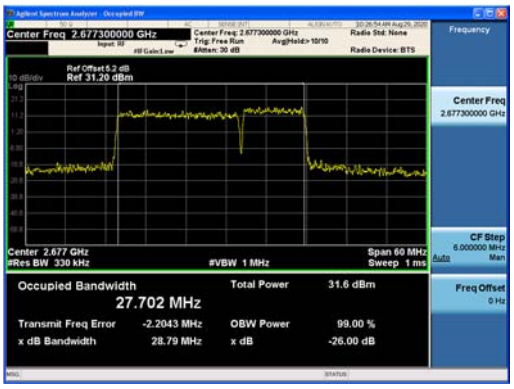

Fig.53

Fig.54

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Fig.56

Fig.57

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Fig.61

Fig.62

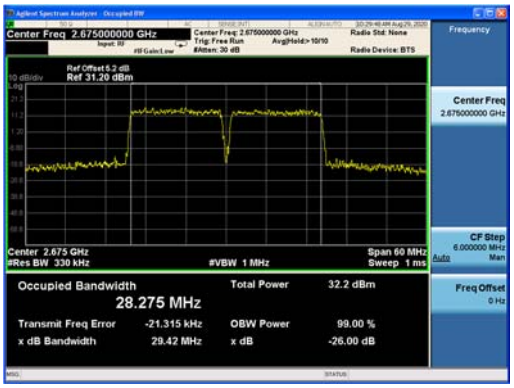


Fig.63

Fig.64

Fig.65

Fig.66

Fig.67

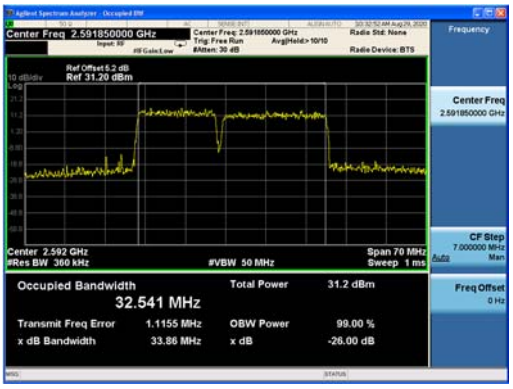
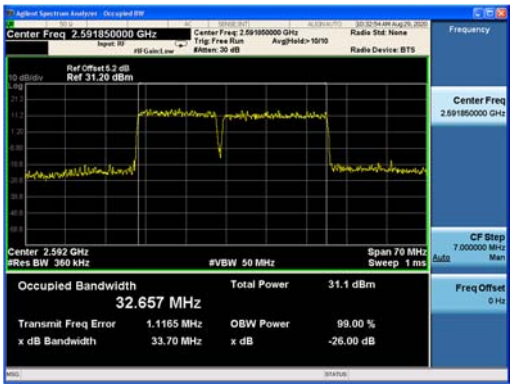


Fig.68



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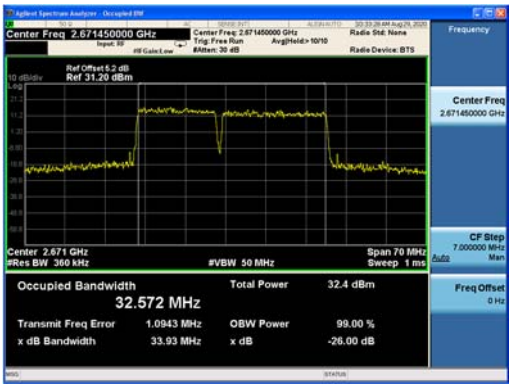

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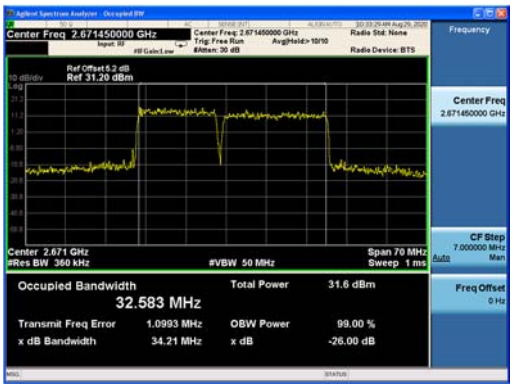


Fig.71

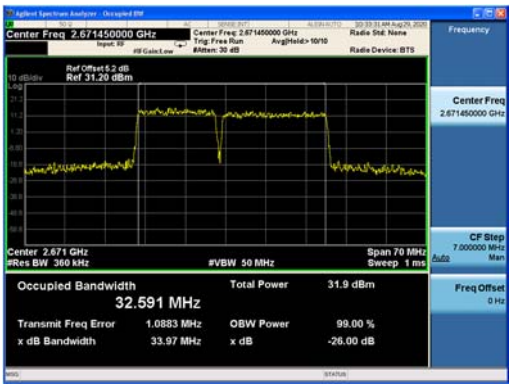


Fig.72

Fig.73

Fig.74

Fig.75

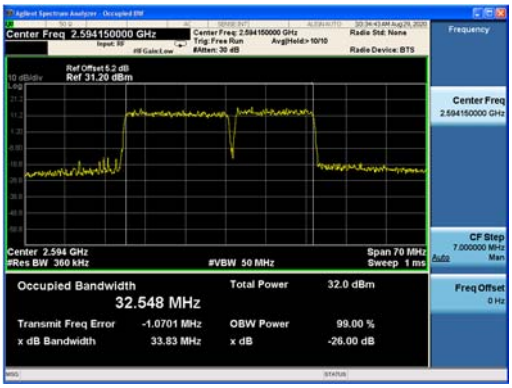


Fig.76

Fig.77

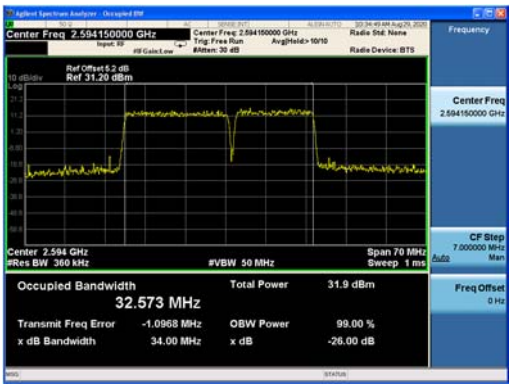


Fig.78

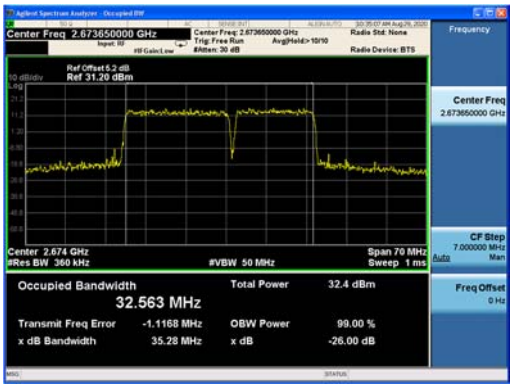


Fig.79

Fig.80

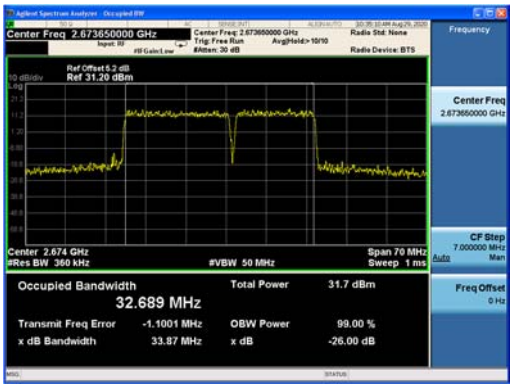


Fig.81

Fig.82

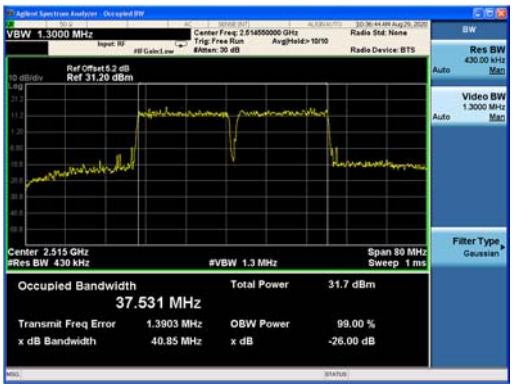


Fig.83

Fig.84

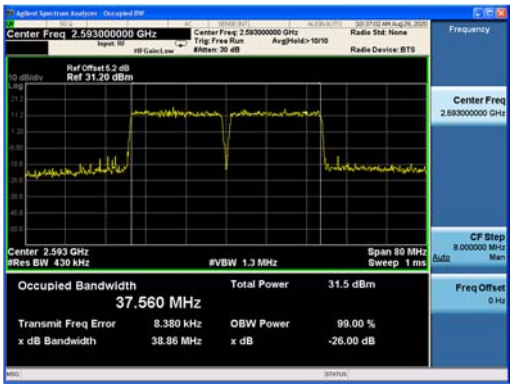


Fig.85

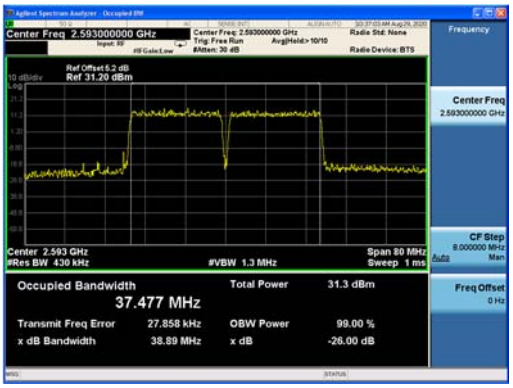


Fig.86

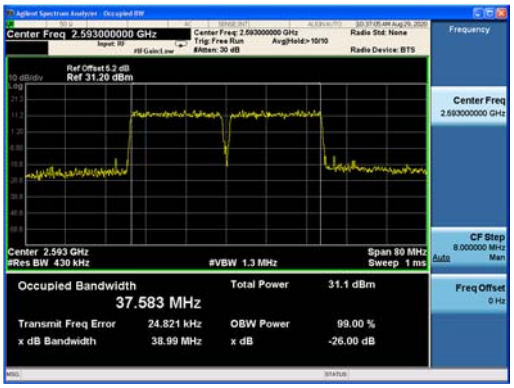


Fig.87

Fig.88

Fig.89

Fig.90

3 Spurious Emissions at antenna terminal

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB Size	PCC RB Offset	SCC1 RB Size	SCC1 RB Offset	Plot
20MHz/ 20MHz	2506	2523.1	QPSK	1	99	1	0	Fig.1-2
	2583.1	2602.9	QPSK	1	99	1	0	Fig.3-4
	2660.2	2680	QPSK	1	99	1	0	Fig.4-5

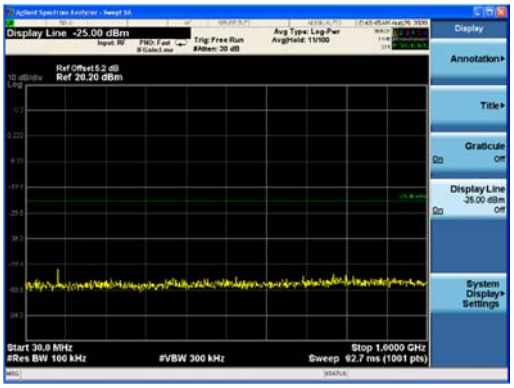


Fig.1

Fig.2

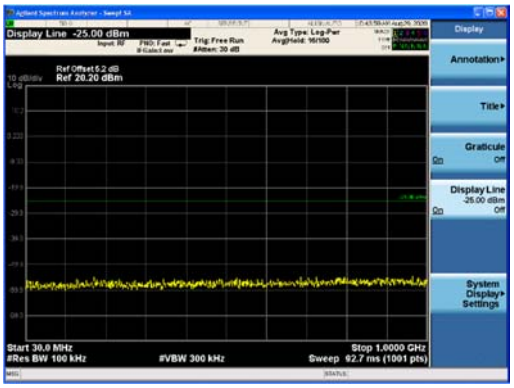


Fig.3

Fig.4

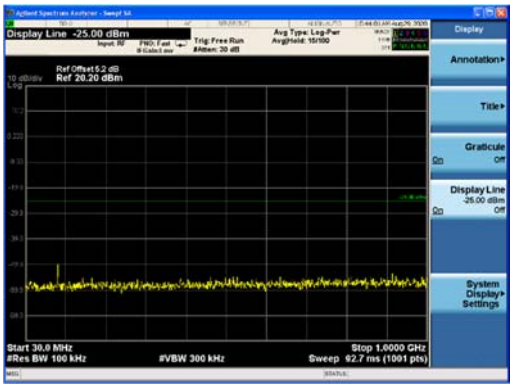


Fig.5

Fig.6

4 Band Edges Compliance

Bandwidth	PCC	SCC	Modulation	PCC	PCC	SCC1	SCC1	Plot

	Frequency (MHz)	Frequency (MHz)		RB Size	RB Offset	RB Size	RB Offset	
5MHz/ 20MHz	2499.3	2511	QPSK	1	0	1	99	Fig.1
			QPSK	25	0	100	0	Fig.2
	2668.3	2680	QPSK	1	24	1	0	Fig.3
			QPSK	25	0	100	0	Fig.4
20MHz/ 5MHz	2506	2517.7	QPSK	1	0	1	24	Fig.5
			QPSK	100	0	25	0	Fig.6
	2675	2686.7	QPSK	1	99	1	0	Fig.7
			QPSK	100	0	25	0	Fig.8
10MHz/ 15MHz	2501.3	2513.3	QPSK	1	0	1	74	Fig.9
			QPSK	50	0	75	0	Fig.10
	2670.5	2682.5	QPSK	1	49	1	0	Fig.11
			QPSK	50	0	75	0	Fig.12
15MHz/ 10MHz	2503.5	2515.5	QPSK	1	0	1	49	Fig.13
			QPSK	75	0	50	0	Fig.14
	2672.7	2684.7	QPSK	1	74	1	0	Fig.15
			QPSK	75	0	50	0	Fig.16
10MHz/ 20MHz	2501.5	2515.9	QPSK	1	0	1	99	Fig.17
			QPSK	50	0	100	0	Fig.18
	2665.6	2680	QPSK	1	49	1	0	Fig.19
			QPSK	50	0	100	0	Fig.20
20MHz/ 10MHz	2506	2520.4	QPSK	1	0	1	49	Fig.21
			QPSK	100	0	50	0	Fig.22
	2670.1	2684.5	QPSK	1	99	1	0	Fig.23
			QPSK	100	0	50	0	Fig.24
15MHz/ 15MHz	2503.5	2518.5	QPSK	1	0	1	74	Fig.25
			QPSK	75	0	75	0	Fig.26
	2667.5	2682.5	QPSK	1	74	1	0	Fig.27
			QPSK	75	0	75	0	Fig.28
15MHz/ 20MHz	2503.8	2520.9	QPSK	1	0	1	99	Fig.29
			QPSK	75	0	100	0	Fig.30
	2662.9	2680	QPSK	1	74	1	0	Fig.31
			QPSK	75	0	100	0	Fig.32
20MHz/ 15MHz	2506	2523.1	QPSK	1	0	1	74	Fig.33
			QPSK	100	0	75	0	Fig.34
	2665.1	2682.2	QPSK	1	99	1	0	Fig.35
			QPSK	100	0	75	0	Fig.36
20MHz/ 20MHz	2506	2523.1	QPSK	1	0	1	99	Fig.37
			QPSK	100	0	100	0	Fig.38
	2660.2	2680	QPSK	1	99	1	0	Fig.39
			QPSK	100	0	100	0	Fig.40

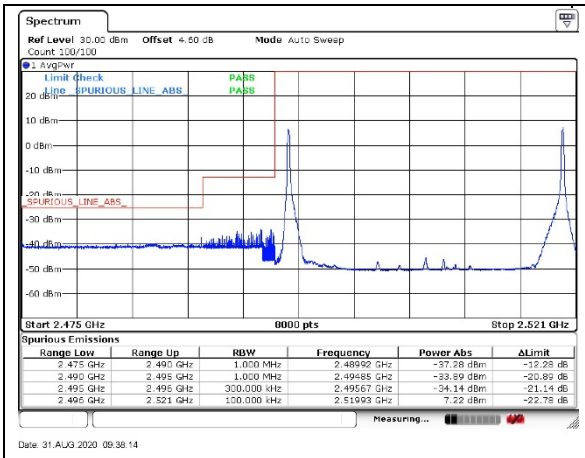


Fig.1

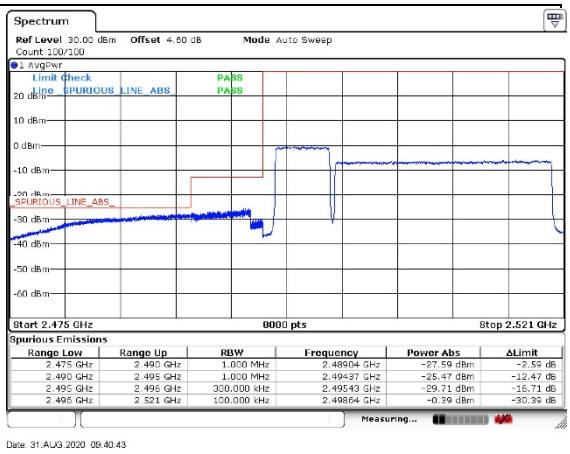


Fig.2

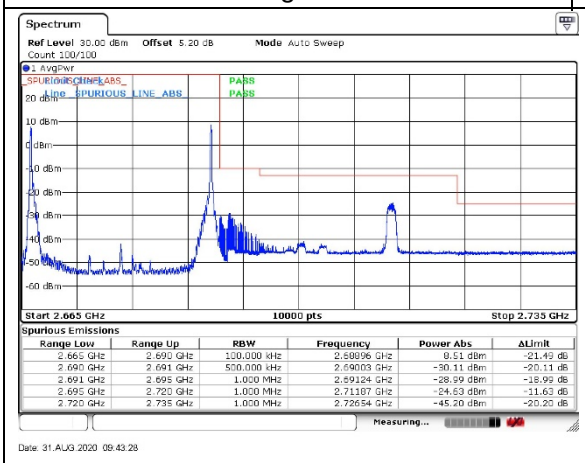
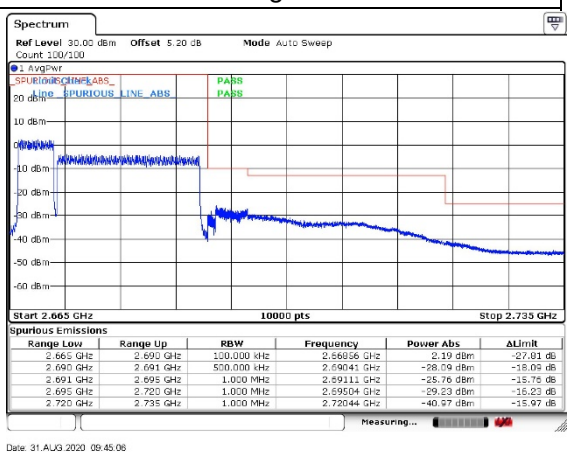


Fig.3



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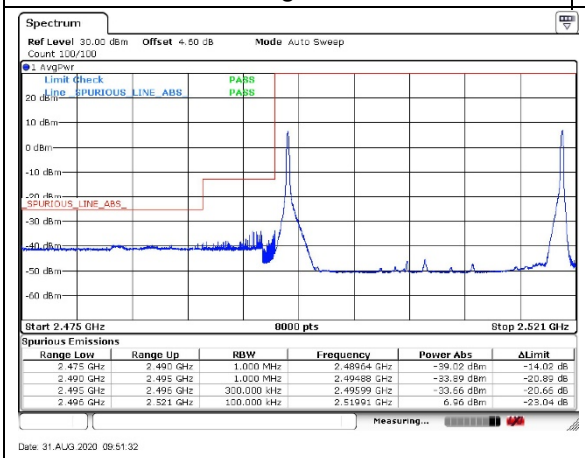

Fig.5

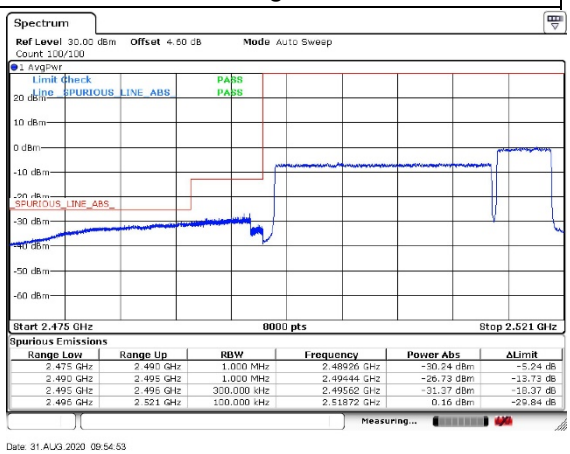

Fig.6

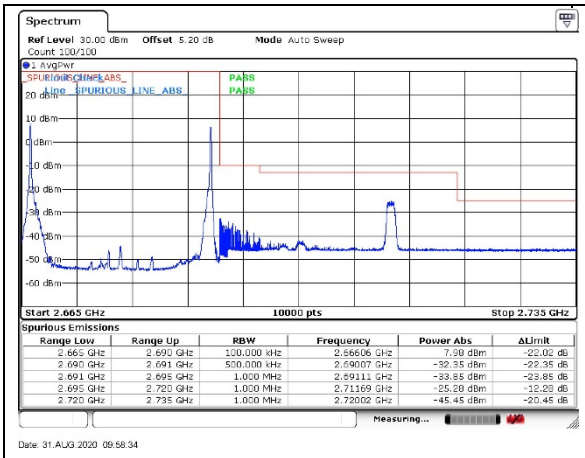

Fig.7

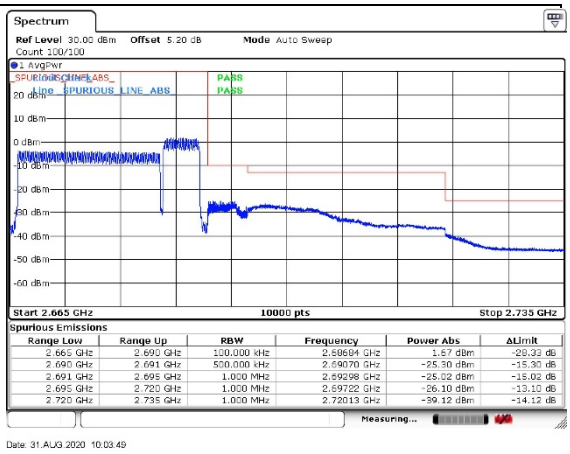

Fig.8

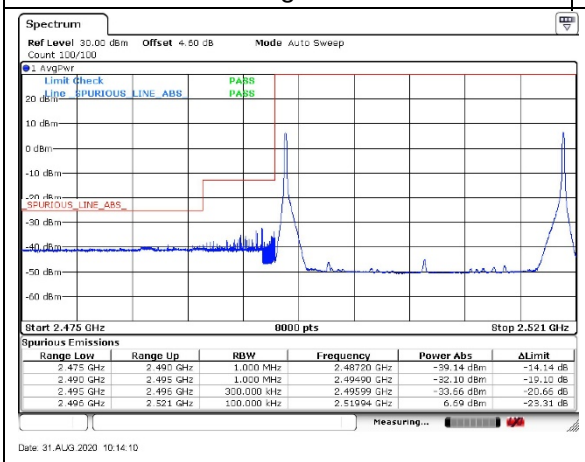

Fig.9

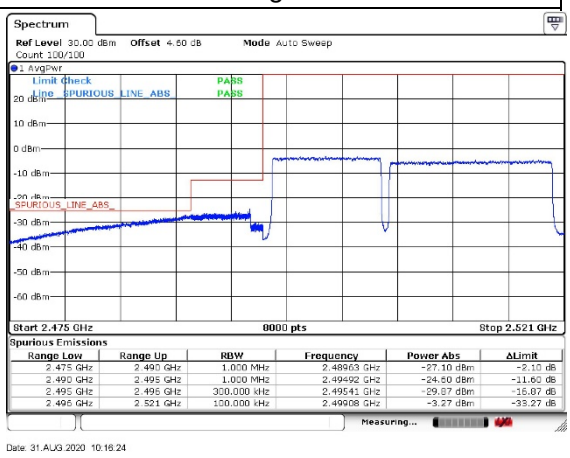

Fig.10

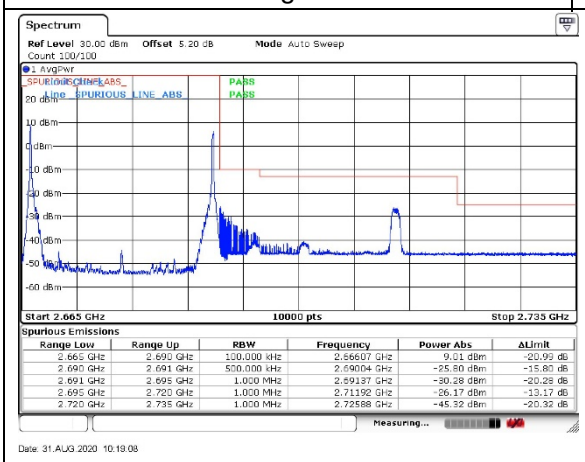

Fig.11

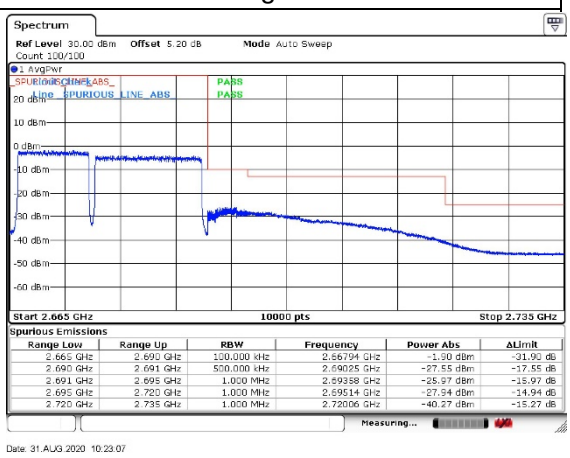

Fig.12