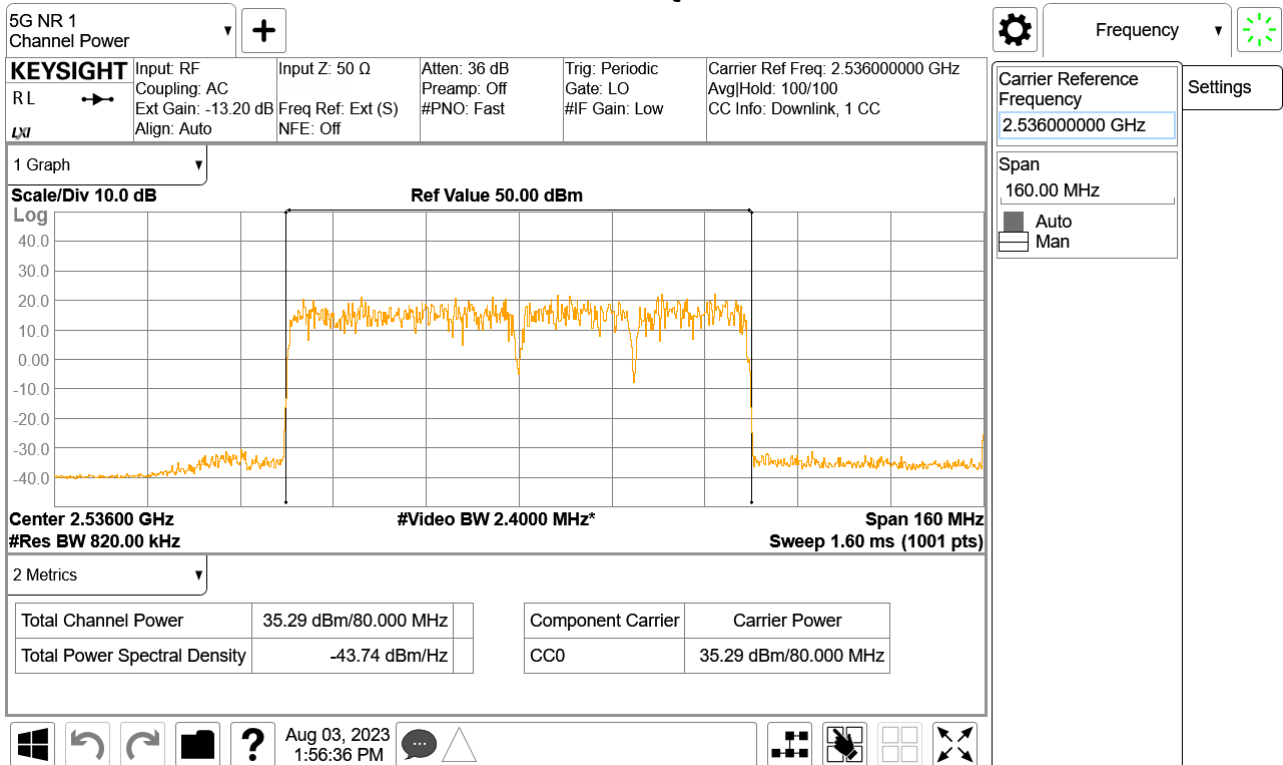
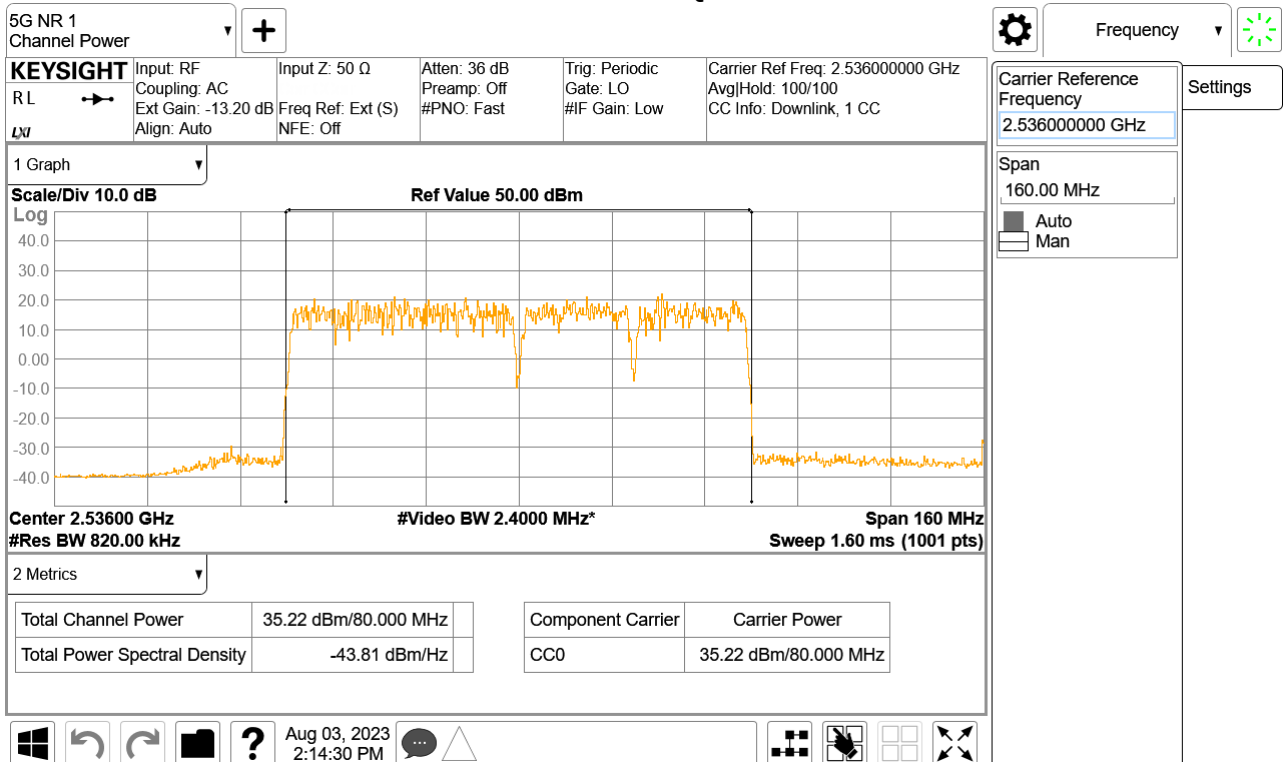


Lowest QPSK



Lowest 16QAM

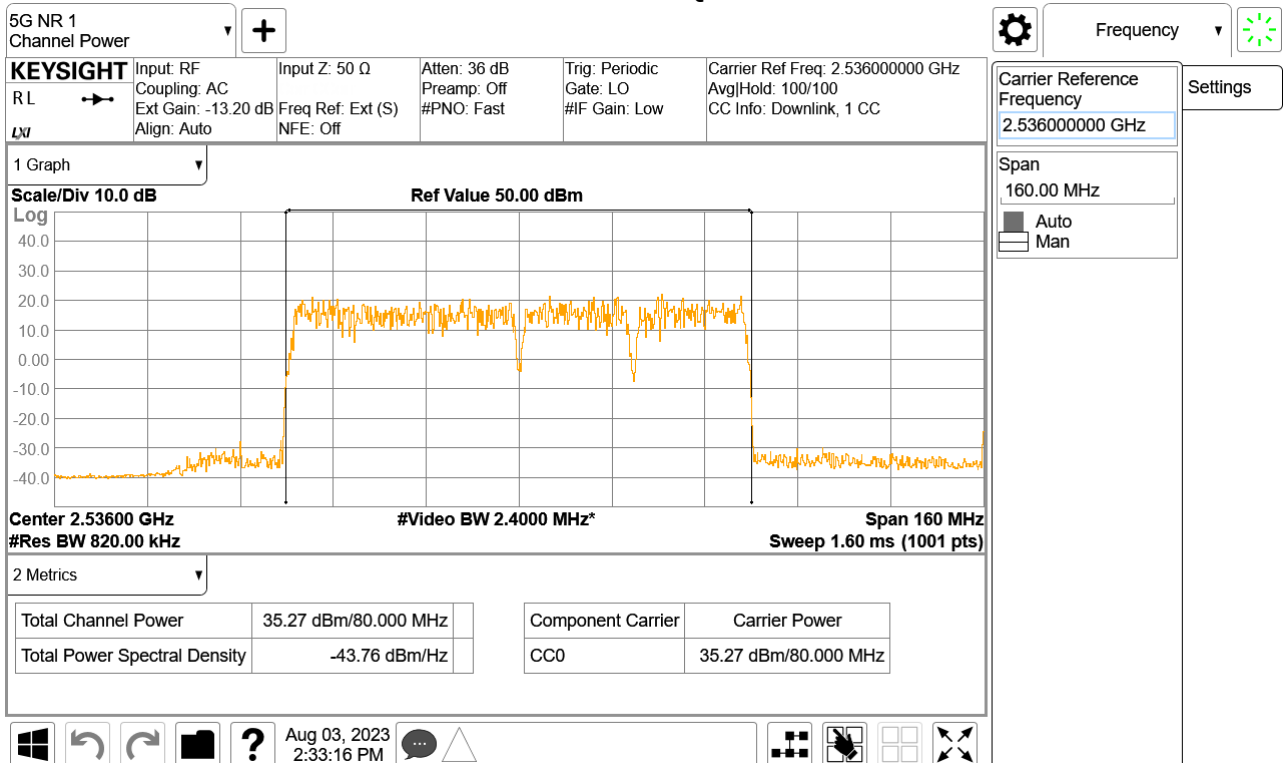




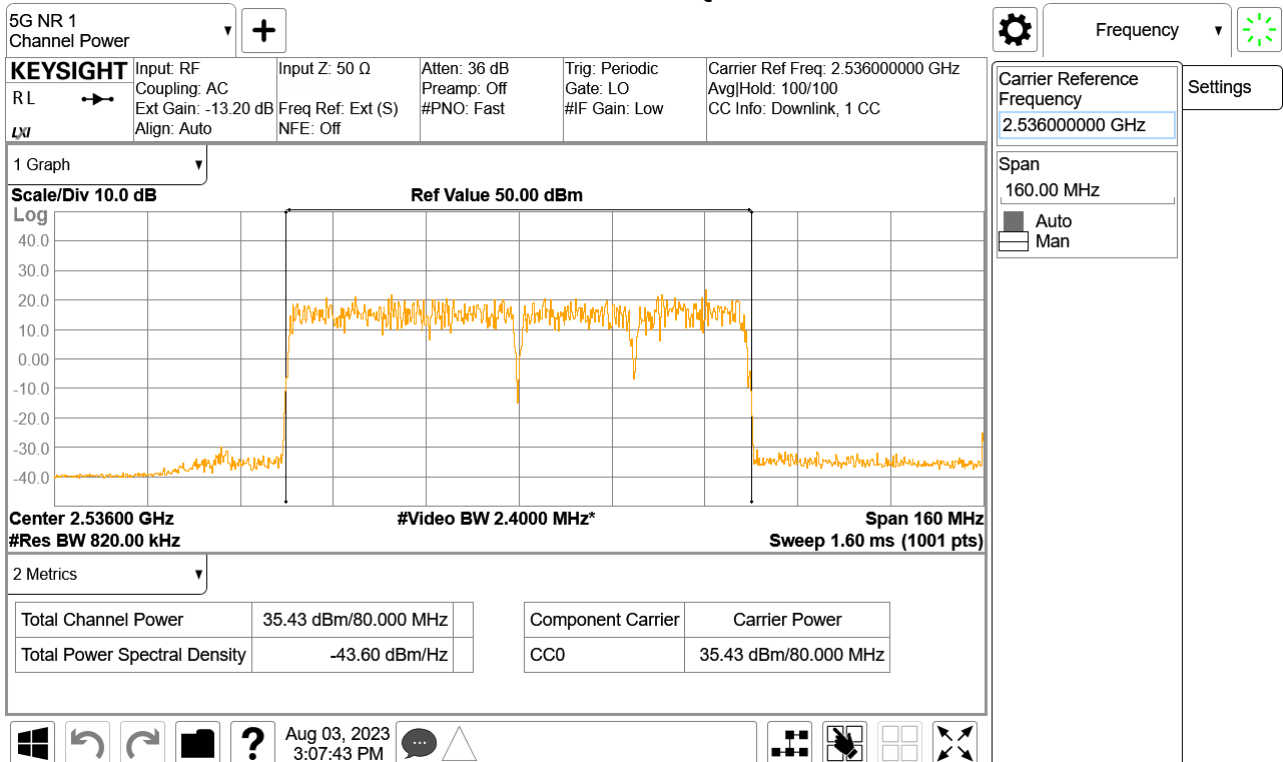
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Lowest 64QAM



Lowest 256QAM

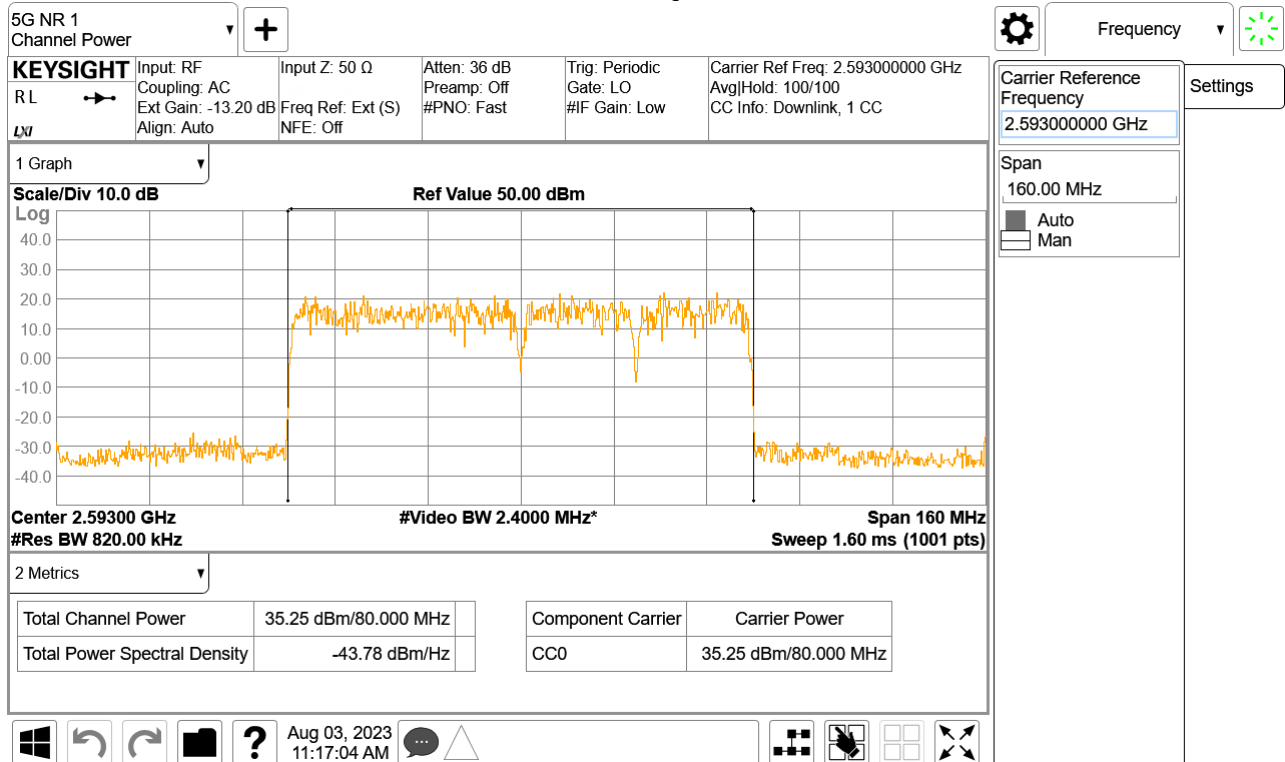




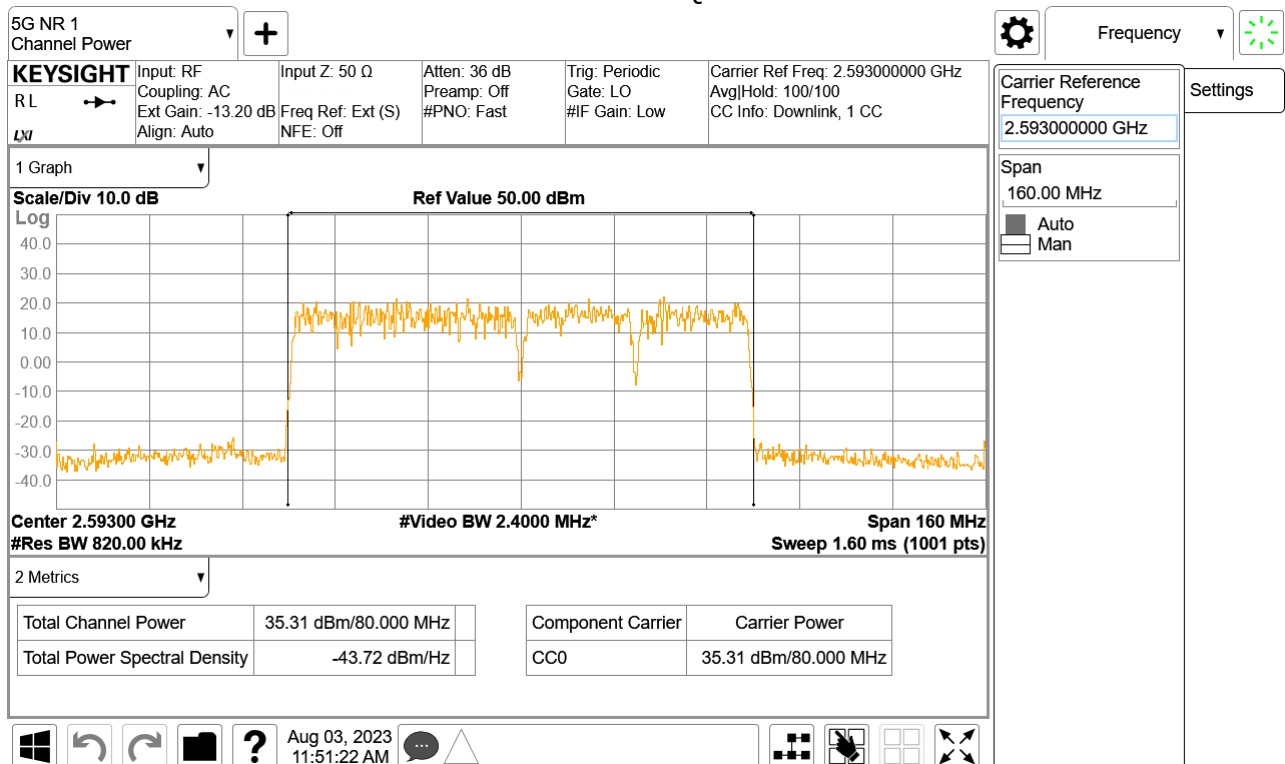
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Middle QPSK



Middle 16QAM

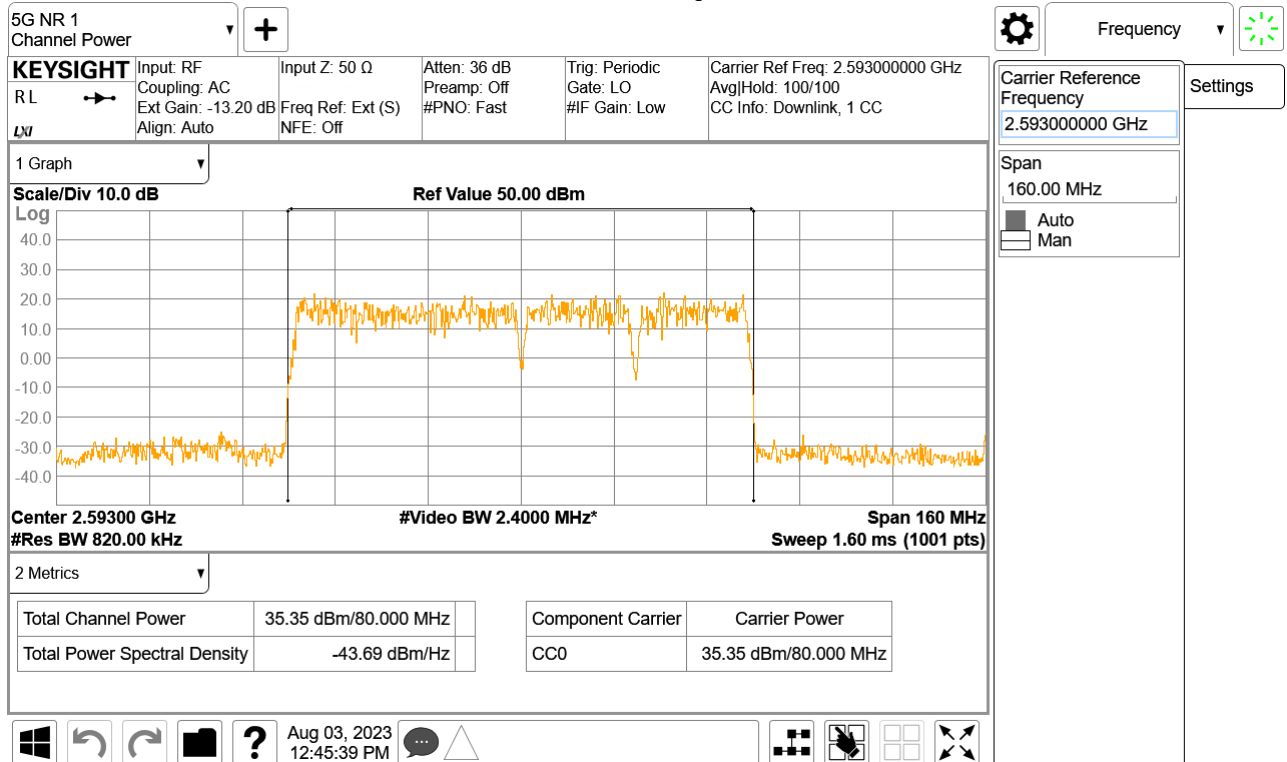




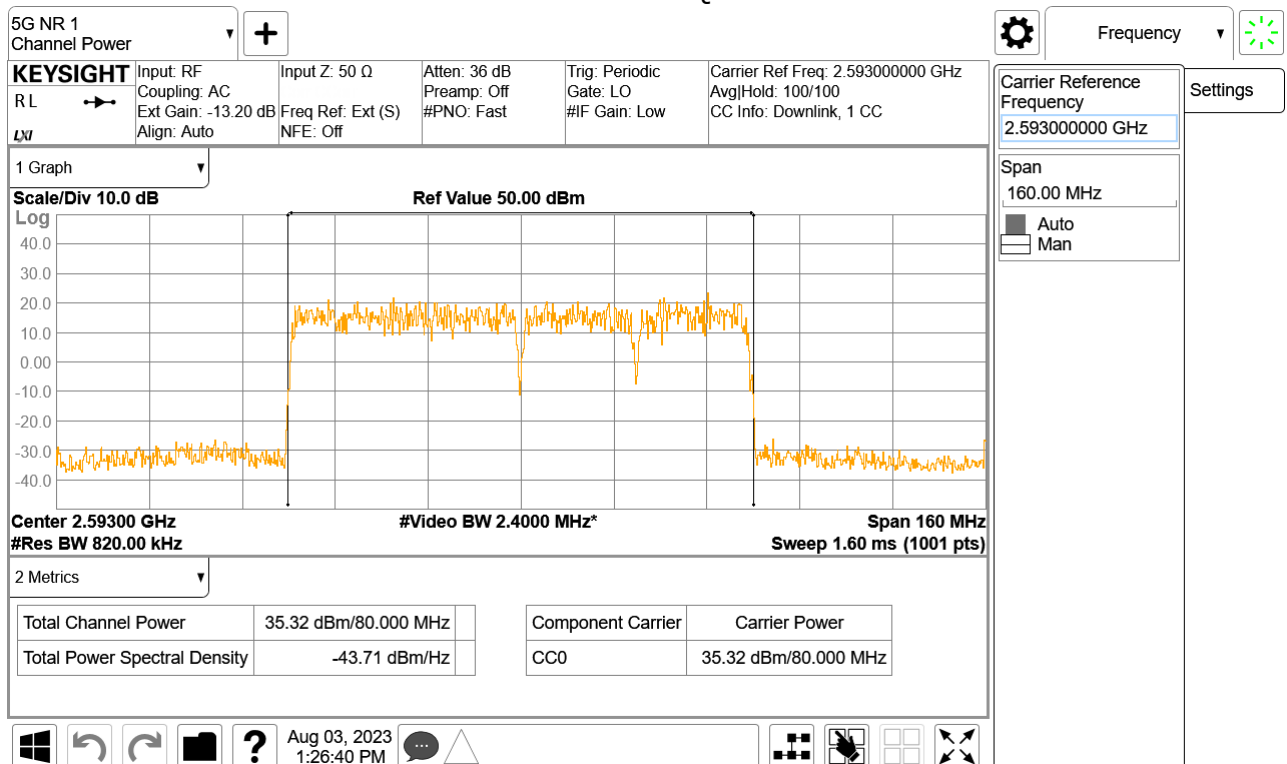
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Middle 64QAM



Middle 256QAM

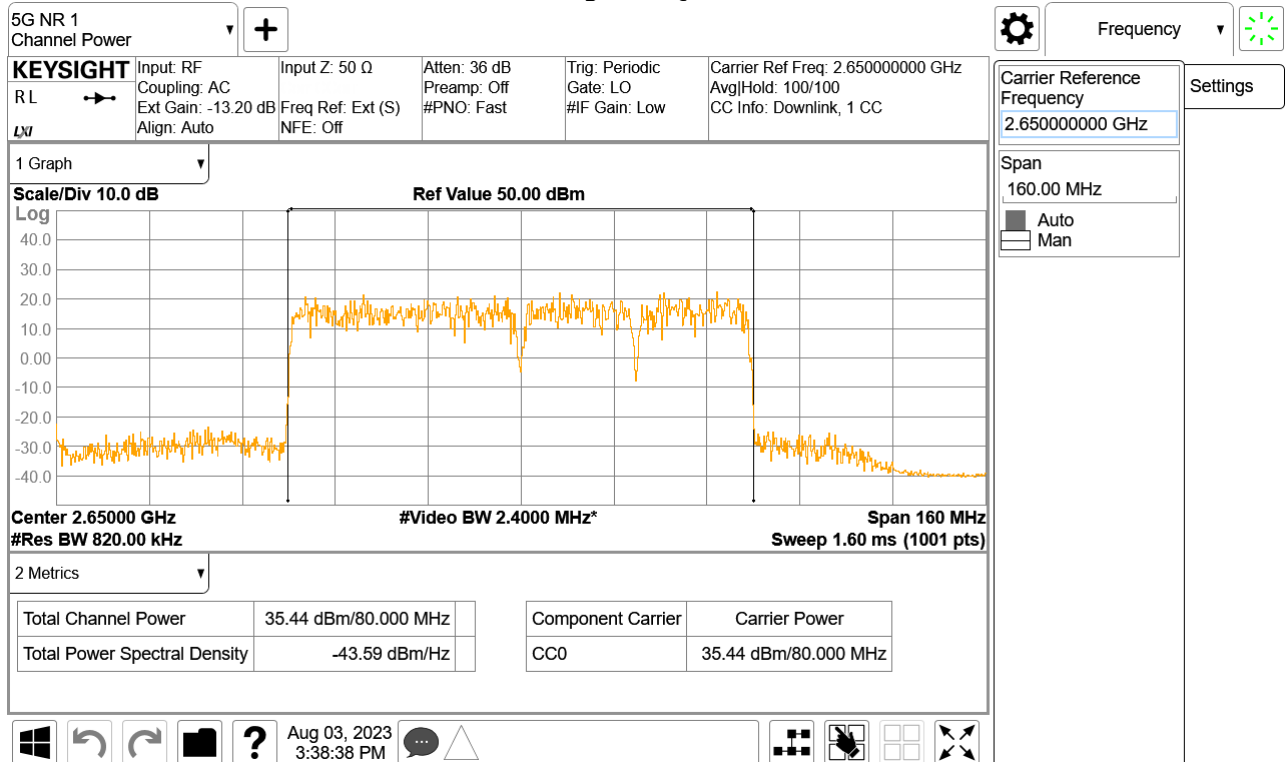




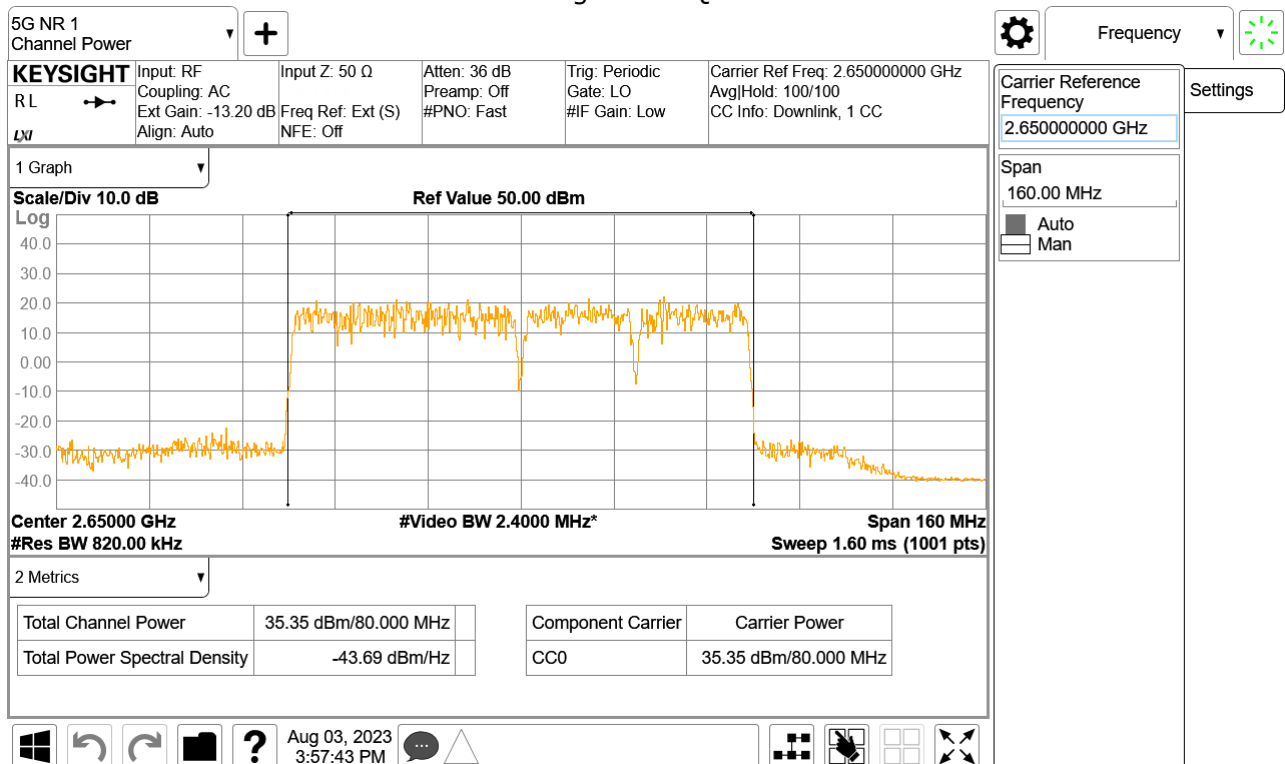
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Highest QPSK



Highest 16QAM

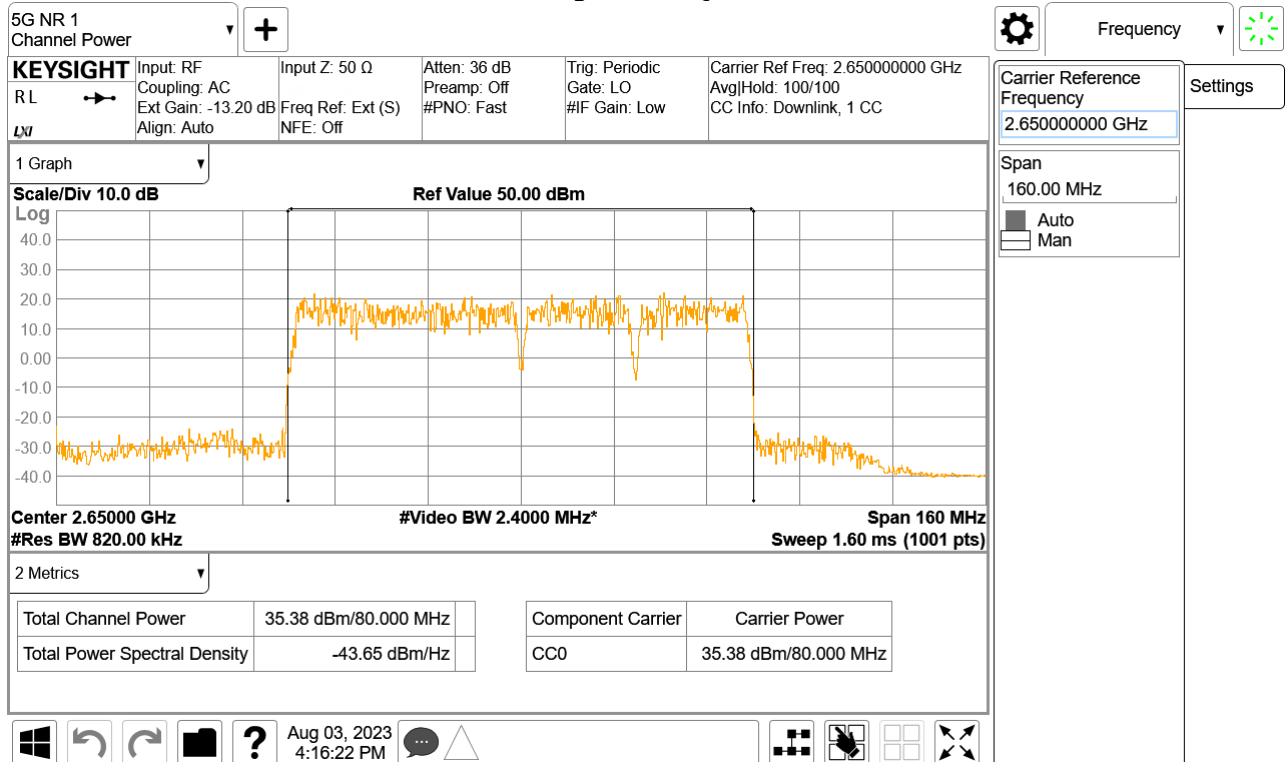




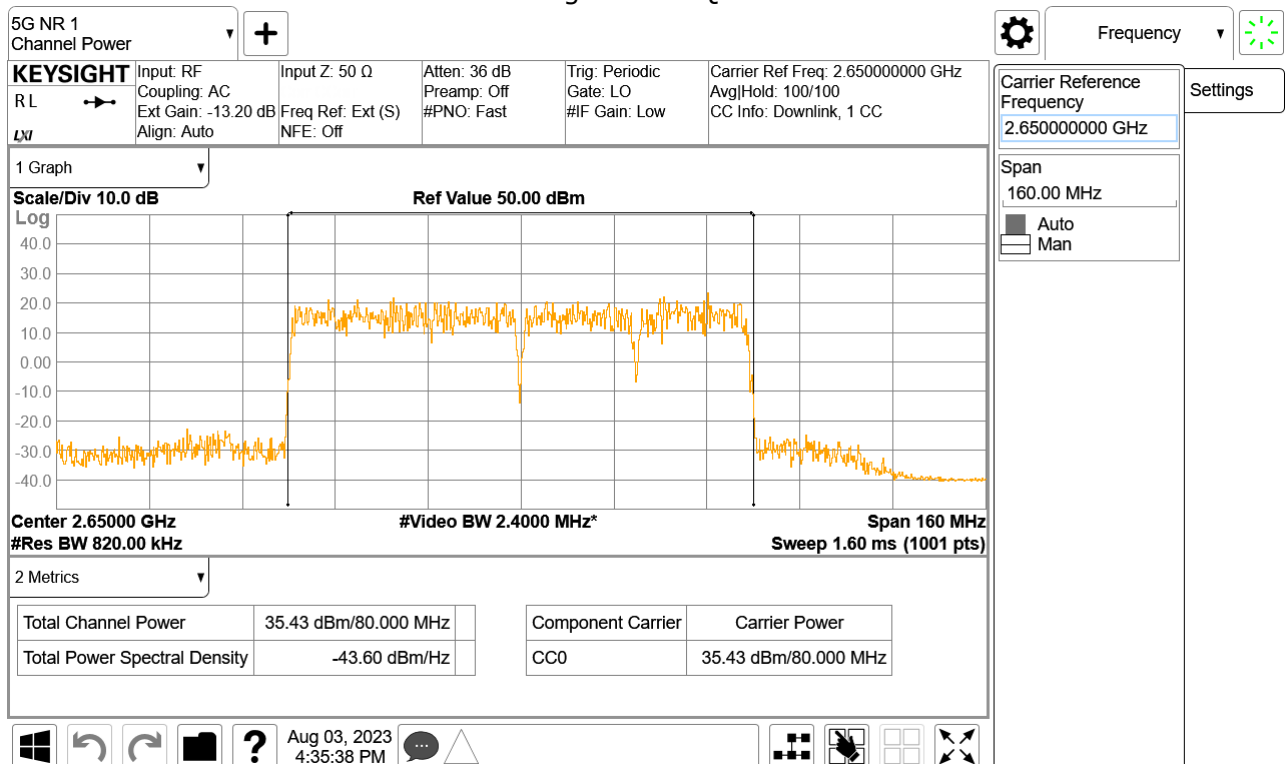
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Highest 64QAM



Highest 256QAM



Test mode : 5G NR 1C 50 MHz+LTE 2C 20+20 MHz Contiguous

Channel	Port	Conducted Average Output Power (dBm)			
		QPSK	16QAM	64QAM	256QAM
Lowest	1	35.53	35.38	35.58	35.66
	2	35.45	35.30	35.55	35.63
	3	35.74	35.70	35.74	35.57
	4	35.81	35.72	35.80	35.72
	5	35.67	35.32	35.53	35.46
	6	35.78	35.59	35.72	35.53
	7	35.66	35.43	35.67	35.47
	8	35.73	35.61	35.64	35.55
	9	35.59	35.40	35.68	35.52
	10	35.89	35.46	35.72	35.57
	11	35.72	35.44	35.73	35.60
	12	36.17	35.69	35.93	35.84
	13	35.49	35.35	35.61	35.59
	14	35.71	35.65	35.84	35.83
	15	35.73	35.72	35.82	35.66
	16	35.66	35.44	35.73	35.61
	17	35.82	35.80	35.54	35.76
	18	35.58	35.31	35.25	35.50
	19	35.54	35.38	35.60	35.55
	20	35.74	35.68	35.74	35.68
	21	35.66	35.68	35.76	35.64
	22	35.79	35.59	35.84	35.70
	23	35.71	35.50	35.80	35.69
	24	36.02	35.53	35.81	35.69
	25	35.74	35.45	35.54	35.45
	26	35.58	35.29	35.49	35.35
	27	35.50	35.17	35.45	35.10
	28	35.52	35.03	35.39	35.16
	29	35.57	35.41	35.58	35.67
	30	35.51	35.56	35.62	35.62
	31	35.88	35.59	35.67	35.65
	32	35.76	35.59	35.89	35.74

Channel	Port	Conducted Average Output Power (dBm)			
		QPSK	16QAM	64QAM	256QAM
Lowest	33	35.61	35.46	35.59	35.68
	34	35.41	35.27	35.41	35.52
	35	35.49	35.34	35.50	35.64
	36	35.68	35.52	35.66	35.77
	37	35.71	35.59	35.72	35.84
	38	35.91	35.78	35.90	36.07
	39	35.63	35.52	35.67	35.76
	40	35.65	35.55	35.64	35.80
	41	35.42	35.27	35.39	35.52
	42	35.78	35.62	35.75	35.91
	43	35.51	35.38	35.48	35.61
	44	35.57	35.41	35.55	35.69
	45	35.76	35.61	35.72	35.88
	46	35.81	35.68	35.84	35.93
	47	35.58	35.45	35.61	35.71
	48	35.61	35.43	35.57	35.70
	49	35.43	35.28	35.46	35.54
	50	35.61	35.46	35.61	35.74
	51	35.63	35.47	35.63	35.73
	52	35.65	35.49	35.65	35.77
	53	35.70	35.54	35.69	35.81
	54	35.54	35.33	35.48	35.59
	55	35.52	35.38	35.50	35.66
	56	35.57	35.40	35.55	35.68
	57	35.52	35.37	35.51	35.61
	58	35.62	35.46	35.59	35.72
	59	35.46	35.30	35.46	35.56
	60	35.64	35.46	35.60	35.73
	61	35.59	35.43	35.58	35.70
	62	35.59	35.40	35.54	35.70
	63	35.78	35.62	35.75	35.87
	64	35.75	35.58	35.70	35.82
Total MIMO Conducted Power (mW)		235511.5	226083.3	234300.0	235572.0
Total MIMO Conducted Power (dBm)		53.72	53.54	53.70	53.72
Antenna Gain (dBi)		26	26	26	26
MIMO EIRP (dBm)		79.72	79.54	79.70	79.72
EIRP Limit (dBm)		88.56	88.56	88.56	88.56
Margin (dB)		-8.84	-9.02	-8.87	-8.84

Channel	Port	Conducted Average Output Power (dBm)			
		QPSK	16QAM	64QAM	256QAM
Middle	1	35.36	35.38	34.92	35.45
	2	35.30	35.29	35.19	35.40
	3	35.55	35.52	35.47	35.64
	4	35.53	35.60	35.44	35.99
	5	35.33	35.38	35.27	35.80
	6	35.41	35.43	35.35	35.82
	7	35.47	35.51	35.42	35.64
	8	35.43	35.49	35.41	35.78
	9	35.48	35.53	35.56	35.84
	10	35.42	35.49	35.57	35.61
	11	35.51	35.59	35.64	35.92
	12	35.66	35.74	35.73	36.06
	13	35.34	35.38	35.33	35.83
	14	35.65	35.68	35.79	36.14
	15	35.56	35.58	35.70	36.01
	16	35.51	35.54	35.90	35.63
	17	35.63	35.65	35.81	36.13
	18	35.34	35.36	35.49	35.47
	19	35.50	35.54	35.83	35.95
	20	35.53	35.54	35.64	35.65
	21	35.57	35.59	35.69	36.03
	22	35.63	35.63	35.97	36.11
	23	35.59	35.59	35.95	35.87
	24	35.58	35.60	35.95	35.92
	25	35.35	35.38	35.72	35.70
	26	35.20	35.19	35.34	35.34
	27	35.07	35.09	35.19	35.26
	28	35.01	35.02	35.15	35.20
	29	35.46	35.49	35.60	35.65
	30	35.46	35.49	35.60	35.65
	31	35.49	35.50	35.60	35.67
	32	35.65	35.68	35.77	35.83

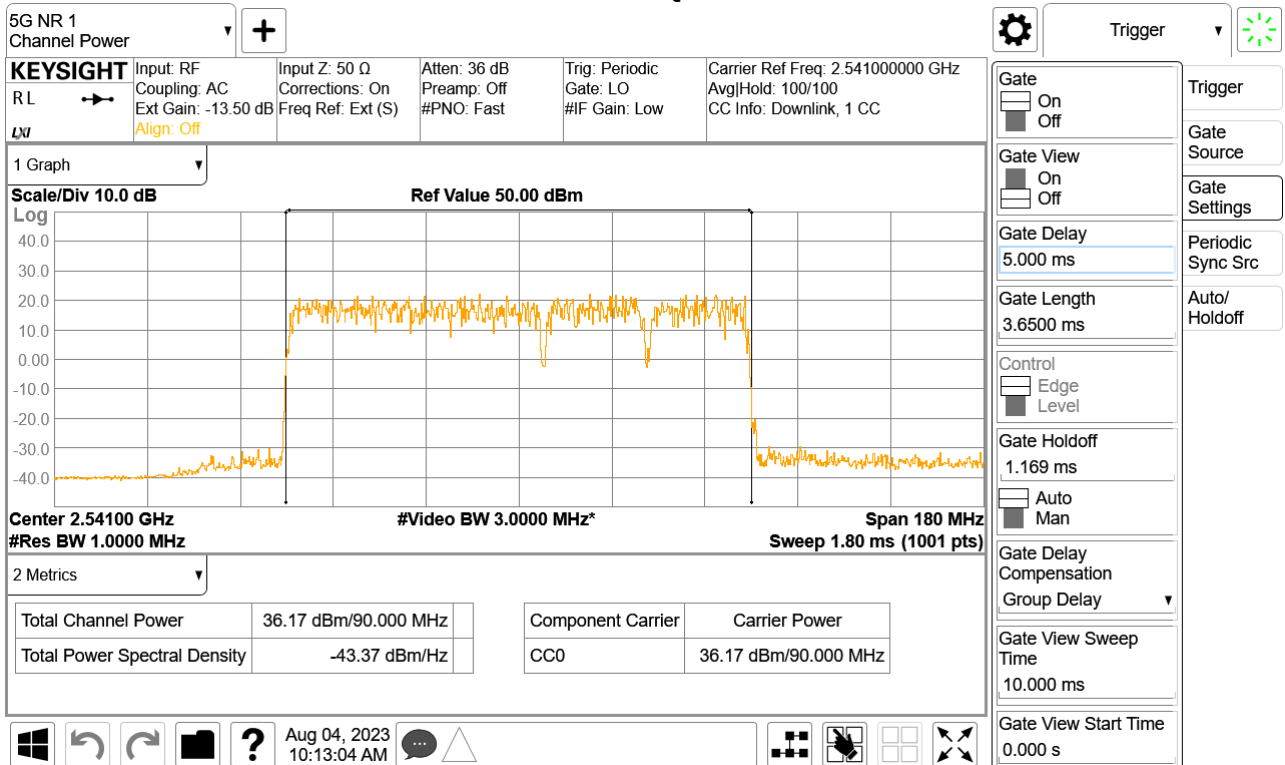
Channel	Port	Conducted Average Output Power (dBm)			
		QPSK	16QAM	64QAM	256QAM
Middle	33	35.40	35.43	34.87	35.63
	34	35.28	35.37	34.86	35.55
	35	35.31	35.35	34.89	35.55
	36	35.51	35.52	35.13	35.74
	37	35.56	35.60	35.18	35.78
	38	35.77	35.83	35.47	36.04
	39	35.58	35.63	35.29	35.82
	40	35.53	35.57	35.23	35.77
	41	35.27	35.30	34.94	35.49
	42	35.60	35.66	35.32	35.85
	43	35.36	35.41	35.07	35.61
	44	35.45	35.47	35.20	35.65
	45	35.65	35.66	35.34	35.83
	46	35.61	35.64	35.33	35.83
	47	35.46	35.49	35.17	35.67
	48	35.54	35.60	35.30	35.78
	49	35.24	35.29	35.05	35.49
	50	35.48	35.45	35.19	35.62
	51	35.54	35.56	35.30	35.72
	52	35.56	35.57	35.27	35.71
	53	35.55	35.58	35.32	35.74
	54	35.40	35.44	35.17	35.58
	55	35.48	35.48	35.20	35.62
	56	35.47	35.49	35.26	35.64
	57	35.35	35.35	35.09	35.52
	58	35.44	35.44	35.17	35.57
	59	35.30	35.31	35.05	35.48
	60	35.50	35.50	35.27	35.67
	61	35.47	35.50	35.24	35.68
	62	35.49	35.47	35.22	35.66
	63	35.55	35.55	35.32	35.71
	64	35.58	35.57	35.35	35.76
Total MIMO Conducted Power (mW)		225444.2	226833.2	221137.4	238846.1
Total MIMO Conducted Power (dBm)		53.53	53.56	53.45	53.78
Antenna Gain (dBi)		26	26	26	26
MIMO EIRP (dBm)		79.53	79.56	79.45	79.78
EIRP Limit (dBm)		88.56	88.56	88.56	88.56
Margin (dB)		-9.03	-9.01	-9.12	-8.78

Channel	Port	Conducted Average Output Power (dBm)			
		QPSK	16QAM	64QAM	256QAM
Highest	1	35.56	35.40	35.49	35.77
	2	35.77	35.27	35.48	35.47
	3	35.95	35.47	35.72	35.68
	4	36.00	35.77	35.75	35.83
	5	35.85	35.60	35.53	35.68
	6	35.46	35.61	35.28	35.63
	7	35.59	35.62	35.63	35.79
	8	35.90	35.44	35.53	35.60
	9	35.61	35.45	35.66	35.63
	10	35.69	35.40	35.62	35.58
	11	35.95	35.72	35.58	35.76
	12	35.93	35.94	35.89	36.03
	13	35.66	35.56	35.56	35.51
	14	36.00	35.71	35.85	35.86
	15	35.92	35.66	35.77	35.75
	16	35.85	35.60	35.73	35.73
	17	35.91	35.84	35.83	35.88
	18	35.52	35.56	35.49	35.62
	19	35.62	35.74	35.71	35.76
	20	35.68	35.74	35.76	35.69
	21	35.73	35.84	35.79	35.74
	22	36.08	35.70	35.79	35.85
	23	36.10	35.61	35.84	35.90
	24	35.76	35.80	35.80	35.85
	25	35.85	35.60	35.49	35.70
	26	35.61	35.39	35.36	35.32
	27	35.51	35.48	35.29	35.25
	28	35.12	35.20	35.25	35.28
	29	35.63	35.68	35.72	35.83
	30	35.82	35.83	35.73	35.74
	31	35.65	35.56	35.40	35.71
	32	35.81	35.71	35.85	35.94

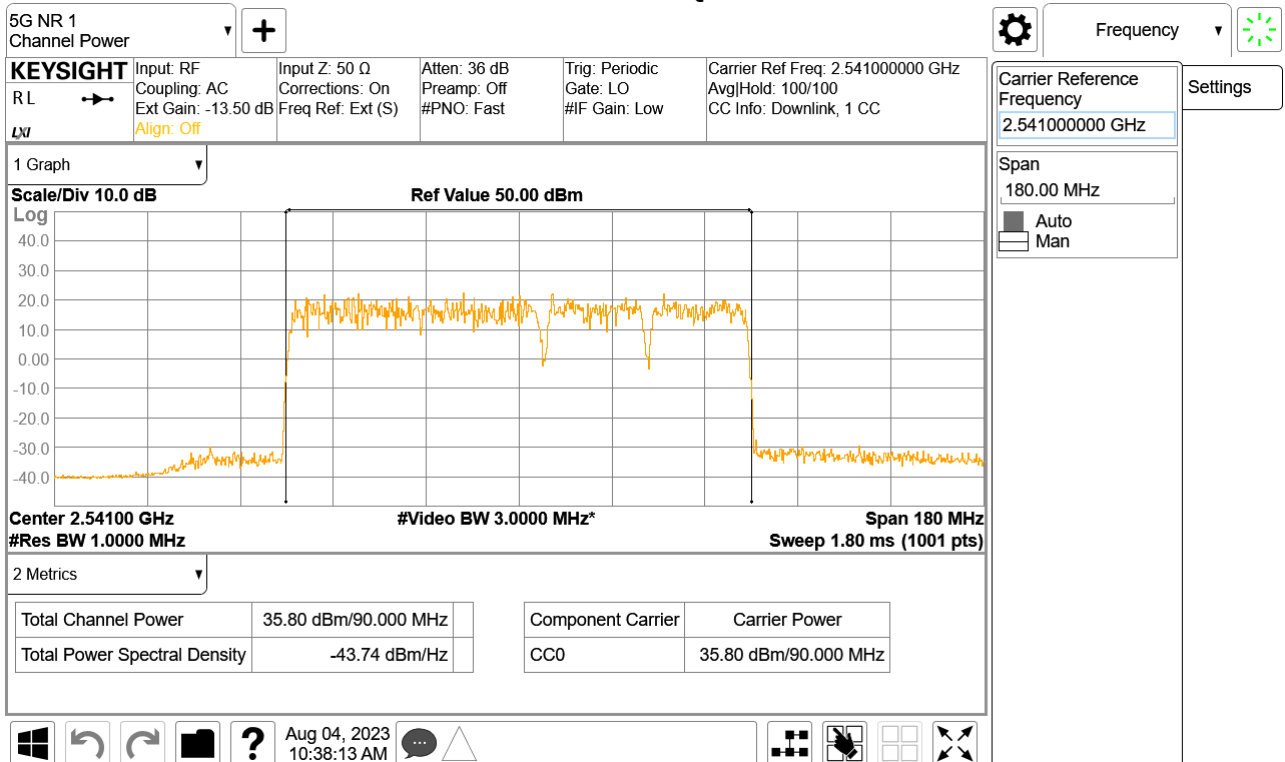
Channel	Port	Conducted Average Output Power (dBm)			
		QPSK	16QAM	64QAM	256QAM
Highest	33	35.49	35.43	35.27	35.64
	34	35.42	35.36	35.22	35.57
	35	35.41	35.34	35.18	35.51
	36	35.52	35.44	35.32	35.63
	37	35.64	35.58	35.47	35.80
	38	35.95	35.86	35.76	36.09
	39	35.60	35.54	35.45	35.75
	40	35.58	35.48	35.41	35.71
	41	35.31	35.21	35.10	35.42
	42	35.67	35.61	35.49	35.81
	43	35.42	35.36	35.28	35.55
	44	35.59	35.51	35.46	35.70
	45	35.64	35.60	35.52	35.78
	46	35.62	35.53	35.46	35.74
	47	35.52	35.47	35.42	35.68
	48	35.58	35.55	35.46	35.72
	49	35.29	35.23	35.17	35.44
	50	35.45	35.38	35.32	35.54
	51	35.60	35.53	35.45	35.70
	52	35.56	35.51	35.47	35.73
	53	35.53	35.48	35.42	35.65
	54	35.43	35.39	35.28	35.56
	55	35.50	35.48	35.38	35.61
	56	35.49	35.45	35.38	35.63
	57	35.37	35.32	35.26	35.49
	58	35.41	35.34	35.32	35.52
	59	35.27	35.22	35.18	35.39
	60	35.49	35.44	35.40	35.64
	61	35.54	35.48	35.44	35.67
	62	35.50	35.45	35.40	35.63
	63	35.50	35.46	35.41	35.63
	64	35.60	35.57	35.54	35.74
Total MIMO Conducted Power (mW)		234468.6	228975.2	227538.8	236433.3
Total MIMO Conducted Power (dBm)		53.70	53.60	53.57	53.74
Antenna Gain (dBi)		26	26	26	26
MIMO EIRP (dBm)		79.70	79.60	79.57	79.74
EIRP Limit (dBm)		88.56	88.56	88.56	88.56
Margin (dB)		-8.86	-8.97	-8.99	-8.83

See next pages for actual measured spectrum plots.

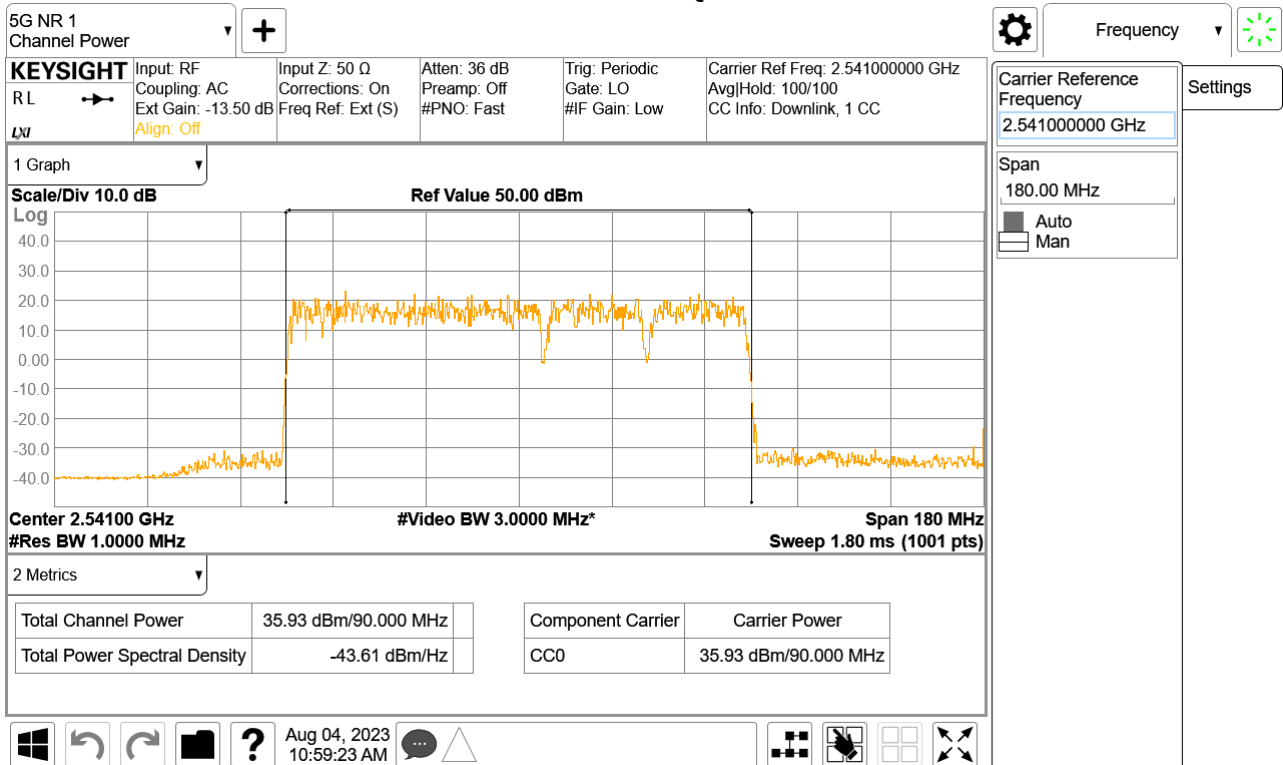
Lowest QPSK



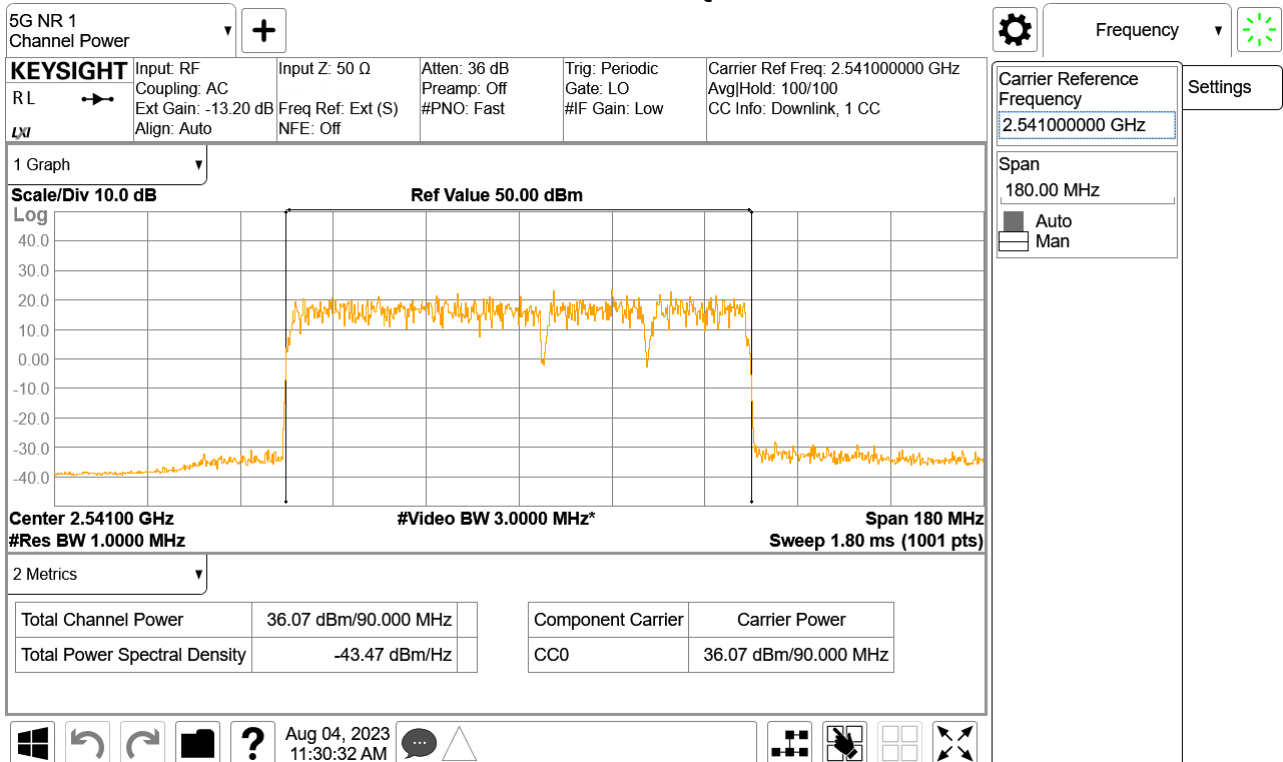
Lowest 16QAM



Lowest 64QAM



Lowest 256QAM

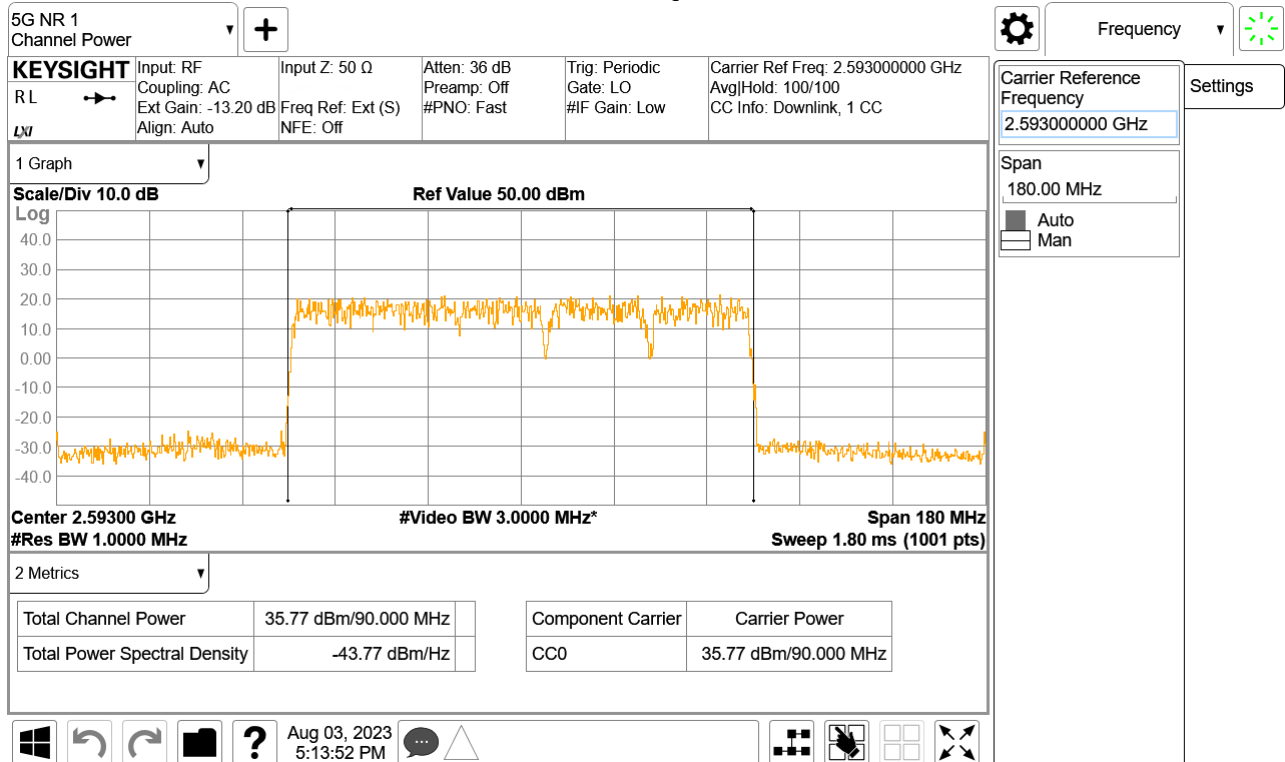




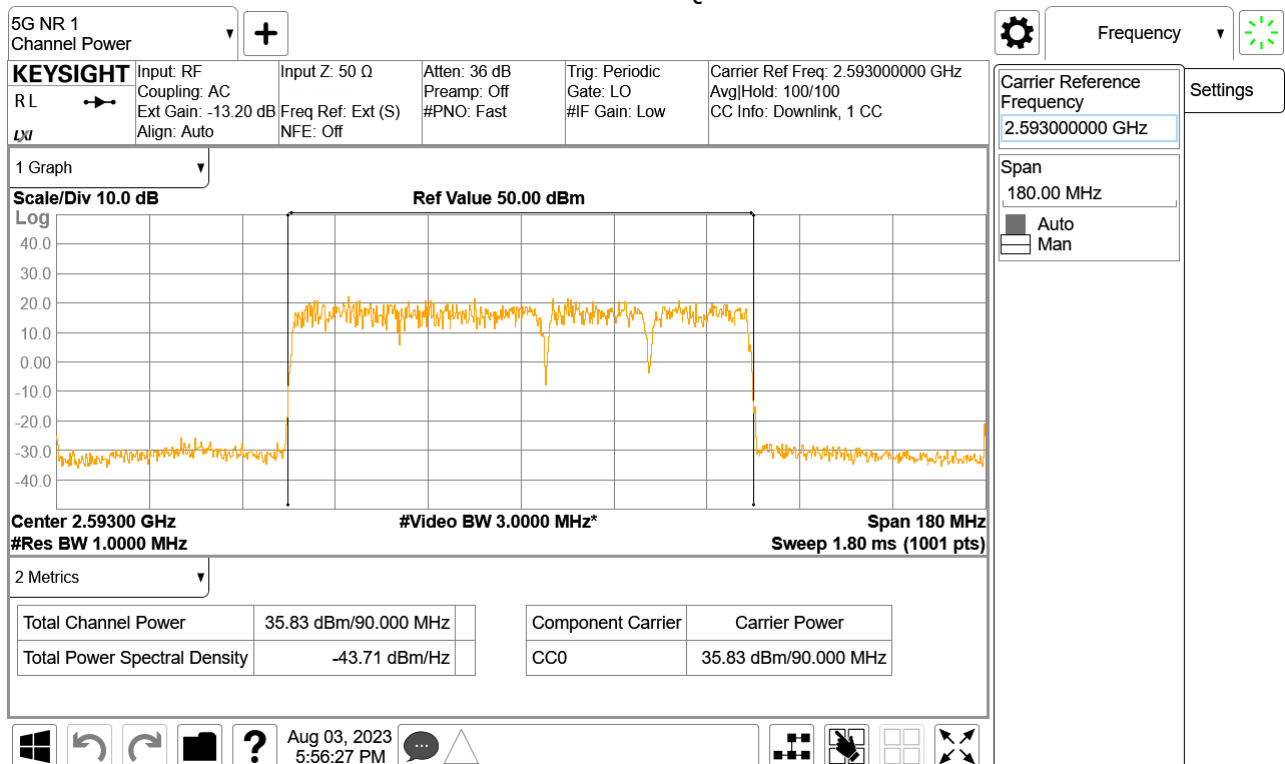
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Middle QPSK



Middle 16QAM

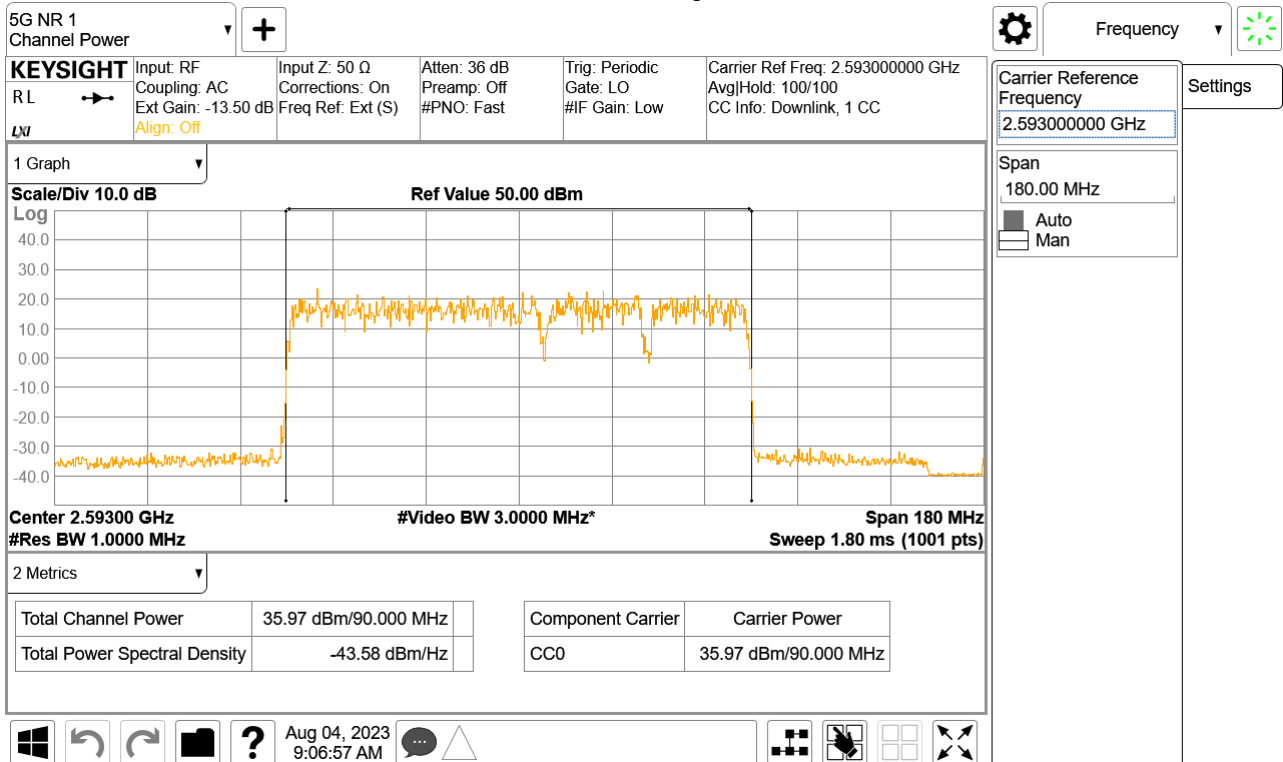




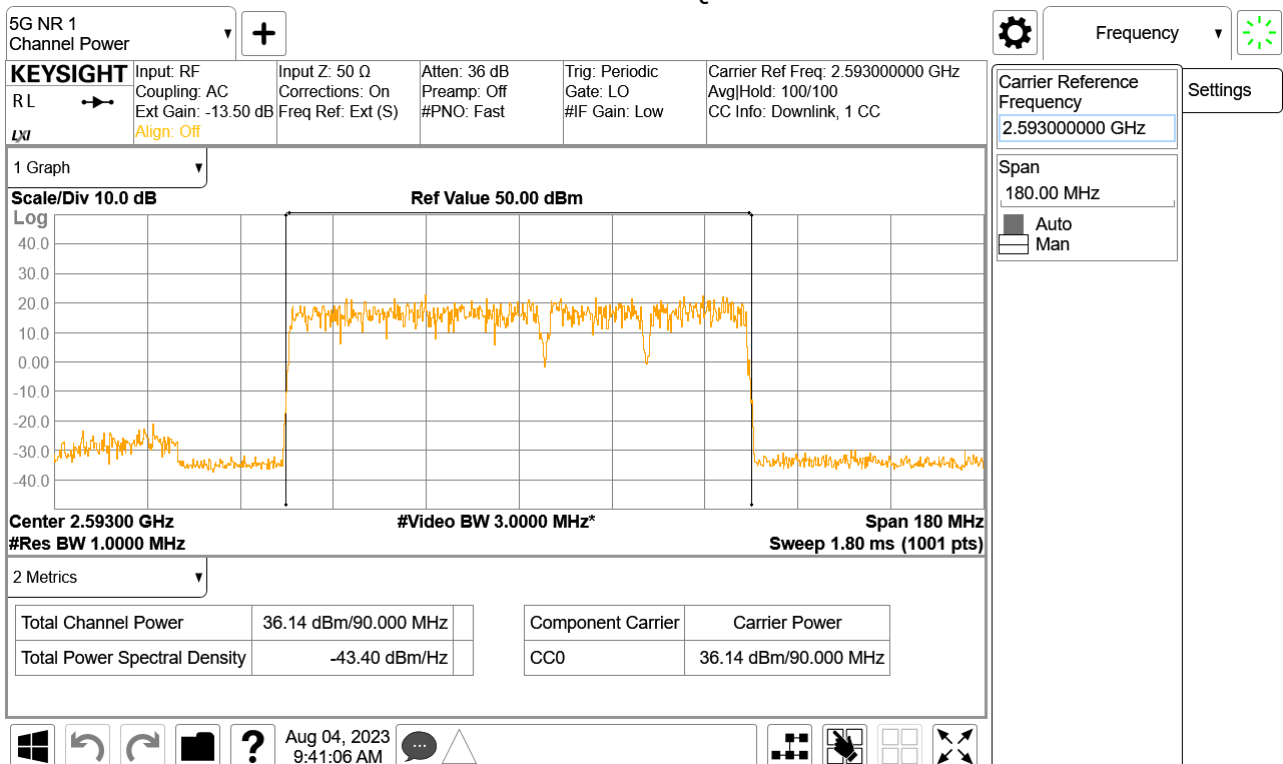
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Middle 64QAM



Middle 256QAM

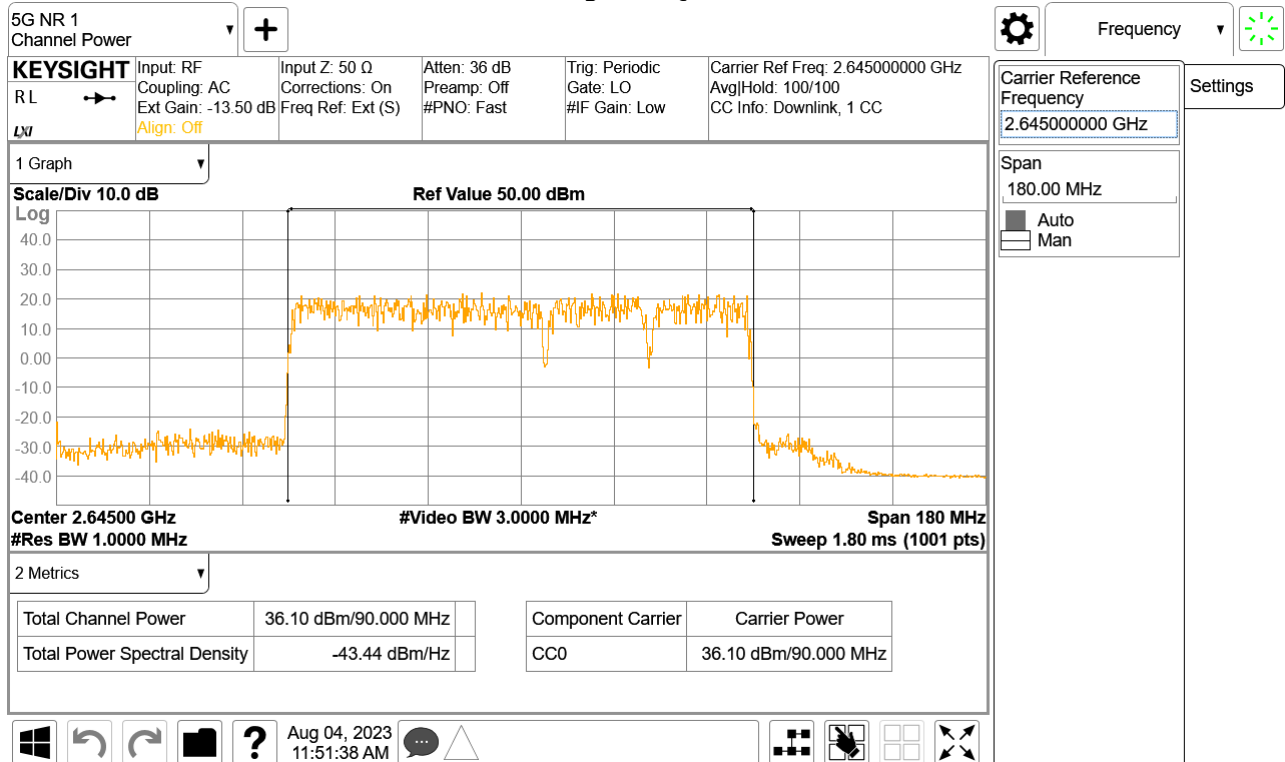




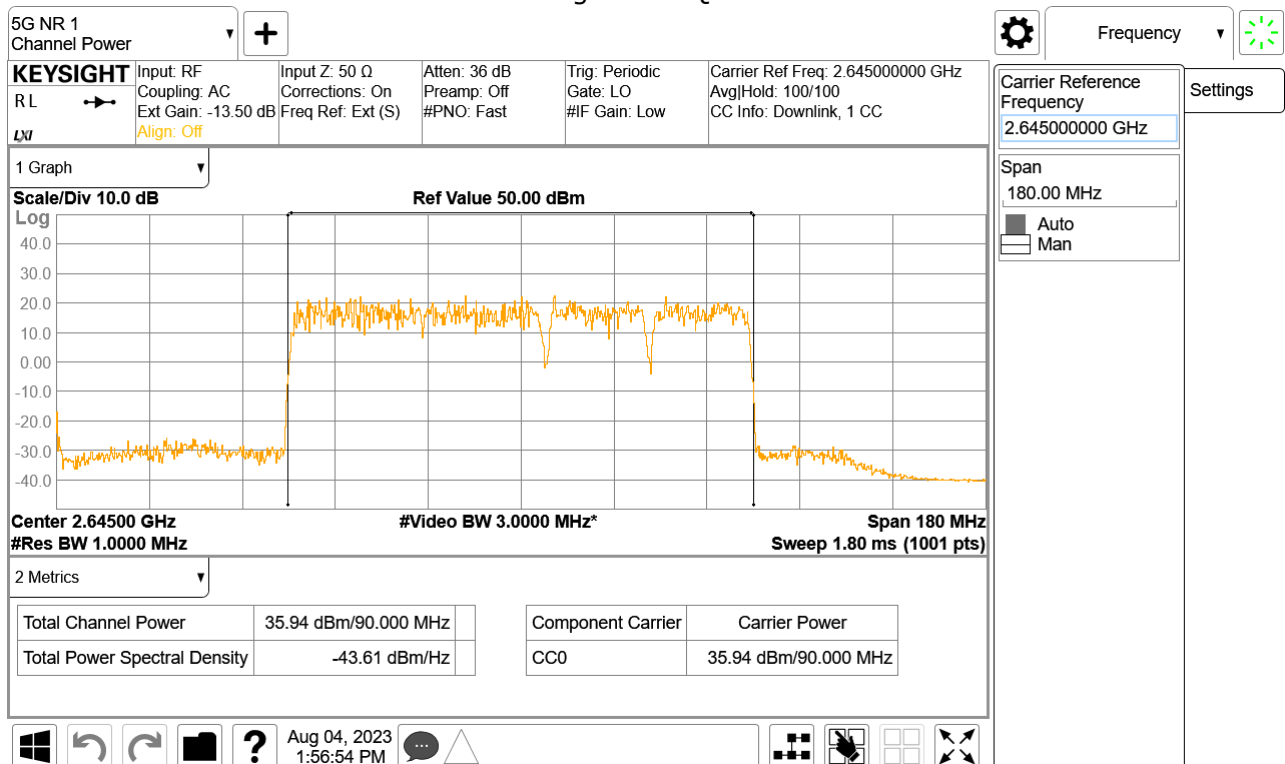
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Highest QPSK



Highest 16QAM

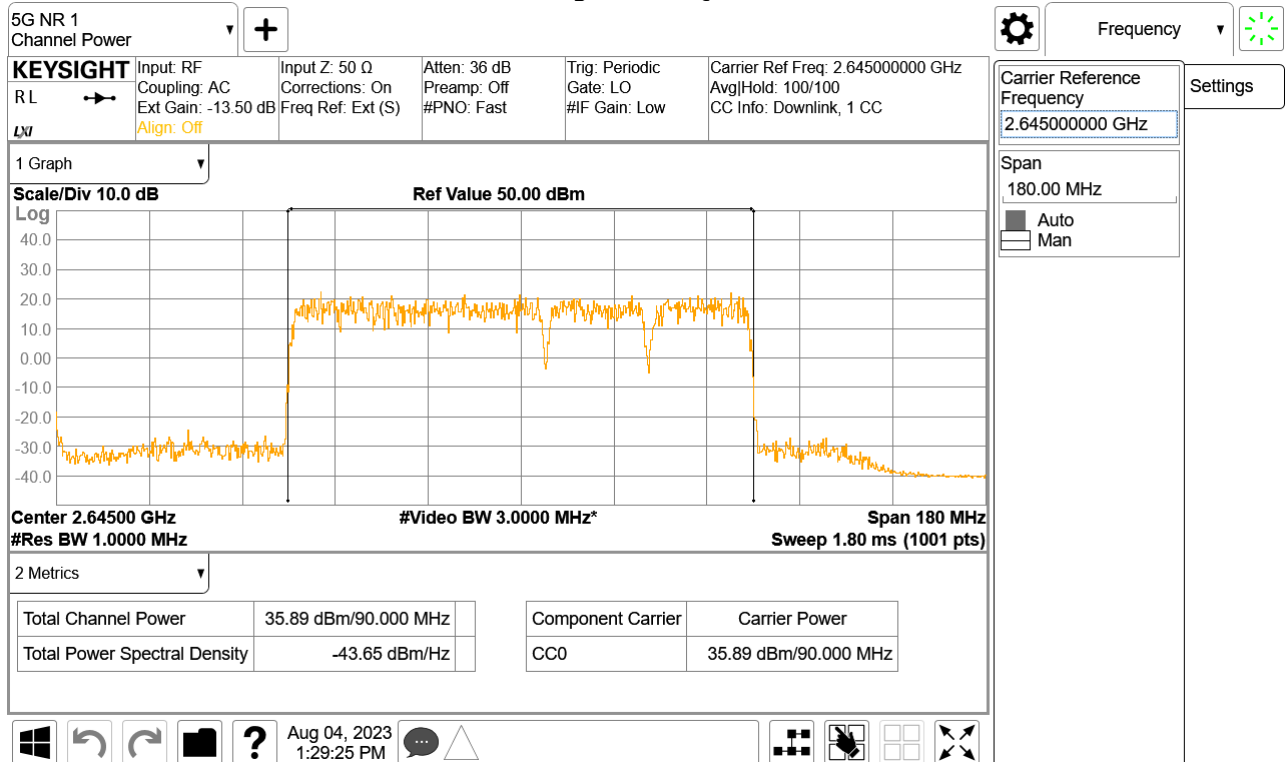




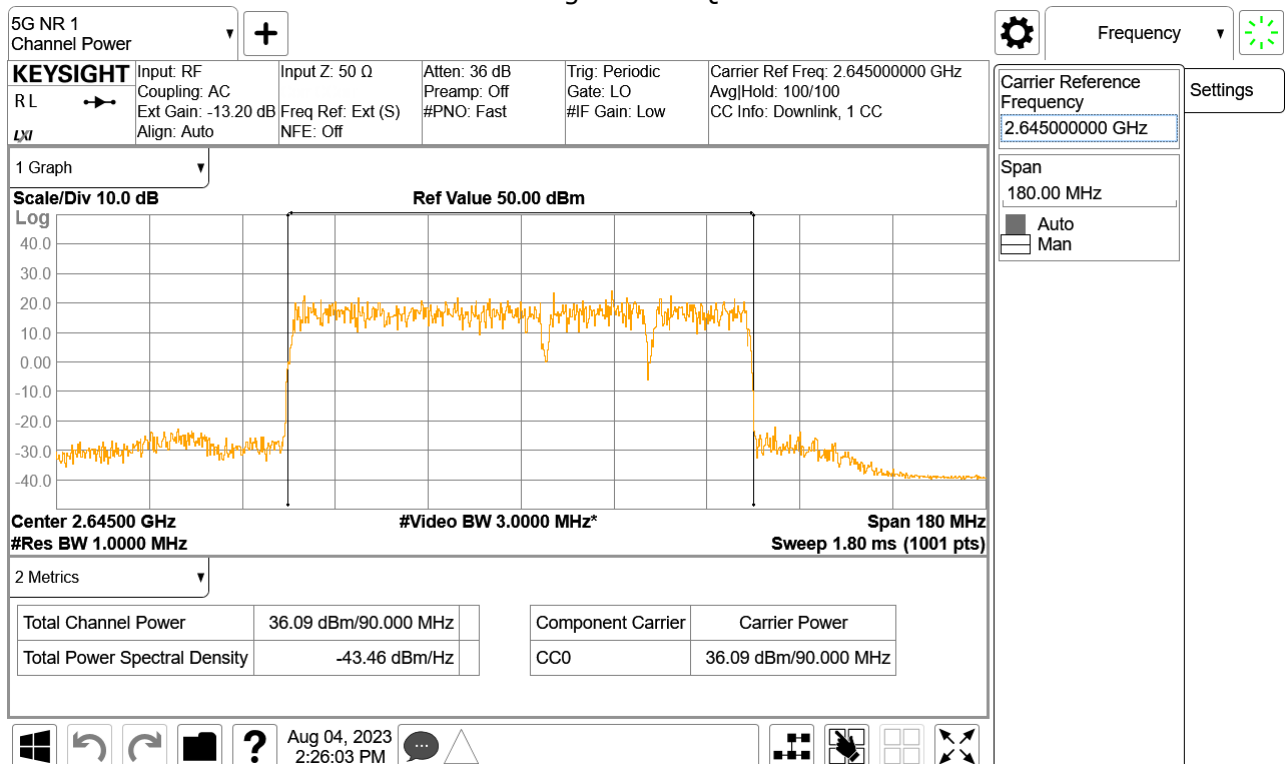
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Highest 64QAM



Highest 256QAM



4.3 Peak-to-average power ratio (PAPR)

Test Overview :

The peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedures :

KDB 971168 D01 v03r01 – Section 5.7
 ANSI C63.26-2015 – Section 5.2.3.4

Test Settings :

Center frequency = the highest, middle and the lowest channels

- | | |
|---|---|
| a) The signal analyzer's CCDF function is enabled. | b) Measurement BW $\geq$ OBW or specified reference bandwidth |
| c) The measurement interval was set depending on the type of signal analyzed. | d) Record 0.1% probability value. |
| e) Allow trace to fully stabilize | |

Limit :

PAPR < 13 dBm

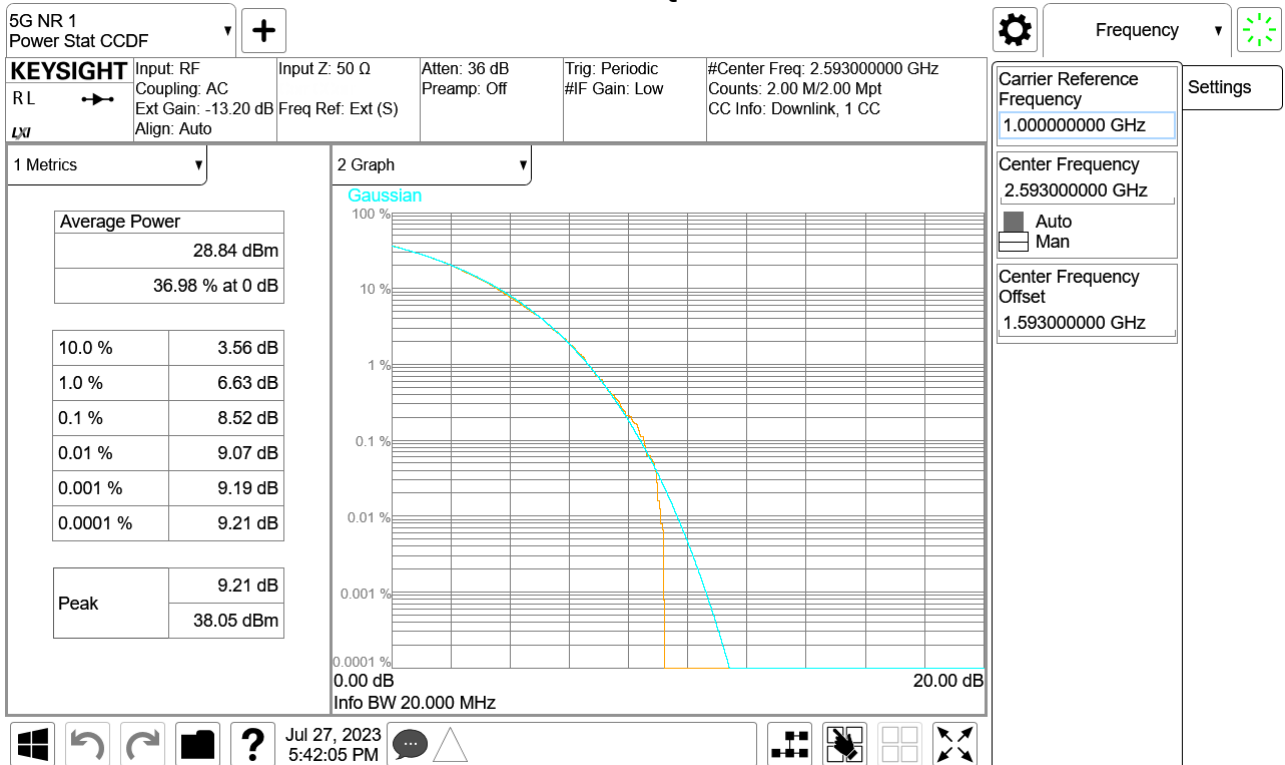
Test Data :

Test mode : LTE 1C 20 MHz

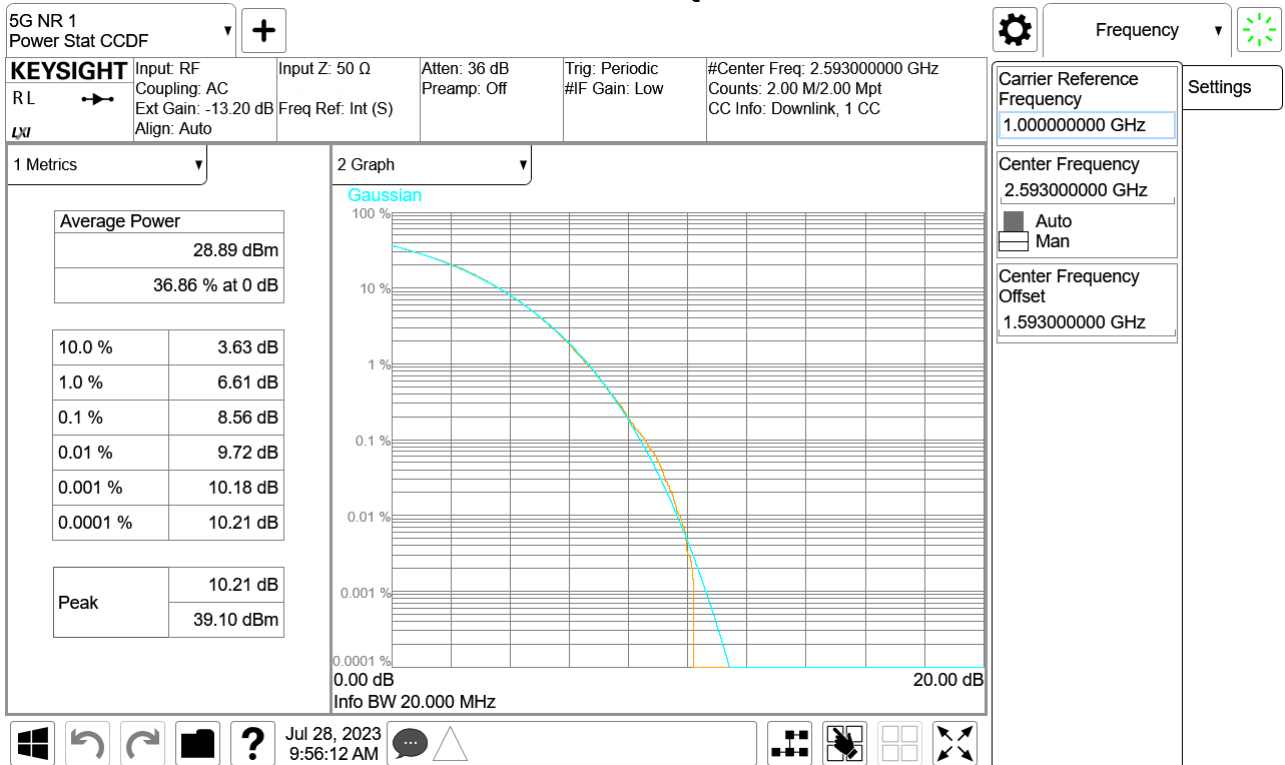
Channel	Port	PAPR (dB)				Port	PAPR (dB)			
		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle	1	8.30	8.22	8.42	8.34	33	8.41	8.53	8.18	8.63
	2	8.29	8.22	8.16	8.10	34	8.45	8.51	8.17	8.65
	3	8.30	8.26	8.27	8.17	35	8.39	8.42	8.14	8.38
	4	8.11	8.22	8.14	8.39	36	8.30	8.55	8.21	8.57
	5	8.14	8.34	8.22	8.45	37	8.43	8.38	8.19	8.31
	6	8.08	8.29	8.19	8.11	38	8.30	8.38	8.14	8.28
	7	8.17	8.33	8.43	8.15	39	8.34	8.34	8.15	8.50
	8	8.22	8.22	8.20	8.09	40	8.36	8.49	8.14	8.37
	9	8.07	8.31	8.29	8.20	41	8.47	8.38	8.17	8.43
	10	7.94	8.30	8.23	8.47	42	8.35	8.33	8.18	8.38
	11	7.95	8.37	8.42	8.24	43	8.42	8.37	8.19	8.61
	12	8.20	8.22	8.16	8.48	44	8.35	8.34	8.17	8.61
	13	8.26	8.30	8.29	8.36	45	8.44	8.55	8.21	8.29
	14	7.98	8.27	8.23	8.45	46	8.44	8.34	8.15	8.26
	15	8.25	8.27	8.14	8.10	47	8.45	8.43	8.18	8.36
	16	8.23	8.36	8.28	8.14	48	8.44	8.52	8.15	8.41
	17	8.12	8.22	8.17	8.12	49	8.43	8.50	8.18	8.57
	18	8.11	8.26	8.17	8.47	50	8.33	8.35	8.18	8.33
	19	8.08	8.32	8.29	8.13	51	8.39	8.35	8.18	8.33
	20	8.07	8.24	8.42	8.47	52	8.51	8.41	8.16	8.65
	21	8.04	8.37	8.18	8.40	53	8.44	8.56	8.17	8.62
	22	8.30	8.31	8.32	8.49	54	8.28	8.38	8.16	8.67
	23	8.34	8.29	8.42	8.35	55	8.39	8.50	8.15	8.29
	24	8.33	8.22	8.16	8.48	56	8.52	8.35	8.14	8.39
	25	8.26	8.32	8.35	8.31	57	8.43	8.46	8.15	8.55
	26	8.24	8.28	8.39	8.41	58	8.37	8.55	8.21	8.34
	27	8.19	8.35	8.15	8.18	59	8.43	8.41	8.19	8.62
	28	8.31	8.22	8.19	8.21	60	8.43	8.45	8.16	8.27
	29	7.93	8.25	8.40	8.31	61	8.43	8.49	8.20	8.64
	30	8.30	8.34	8.15	8.10	62	8.44	8.39	8.13	8.60
	31	7.99	8.34	8.26	8.45	63	8.30	8.41	8.23	8.32
	32	8.00	8.22	8.44	8.42	64	8.44	8.35	8.14	8.33

See next pages for actual measured spectrum plots.

Middle QPSK



Middle 16QAM

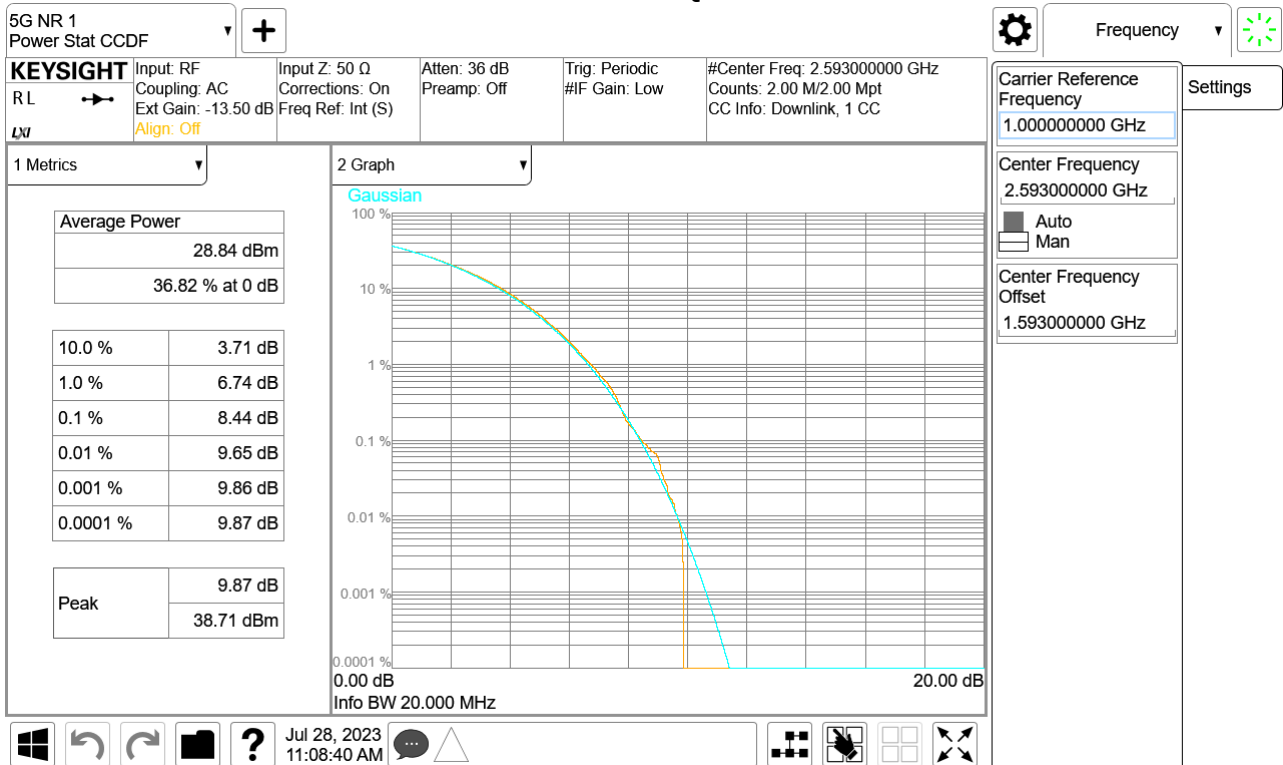




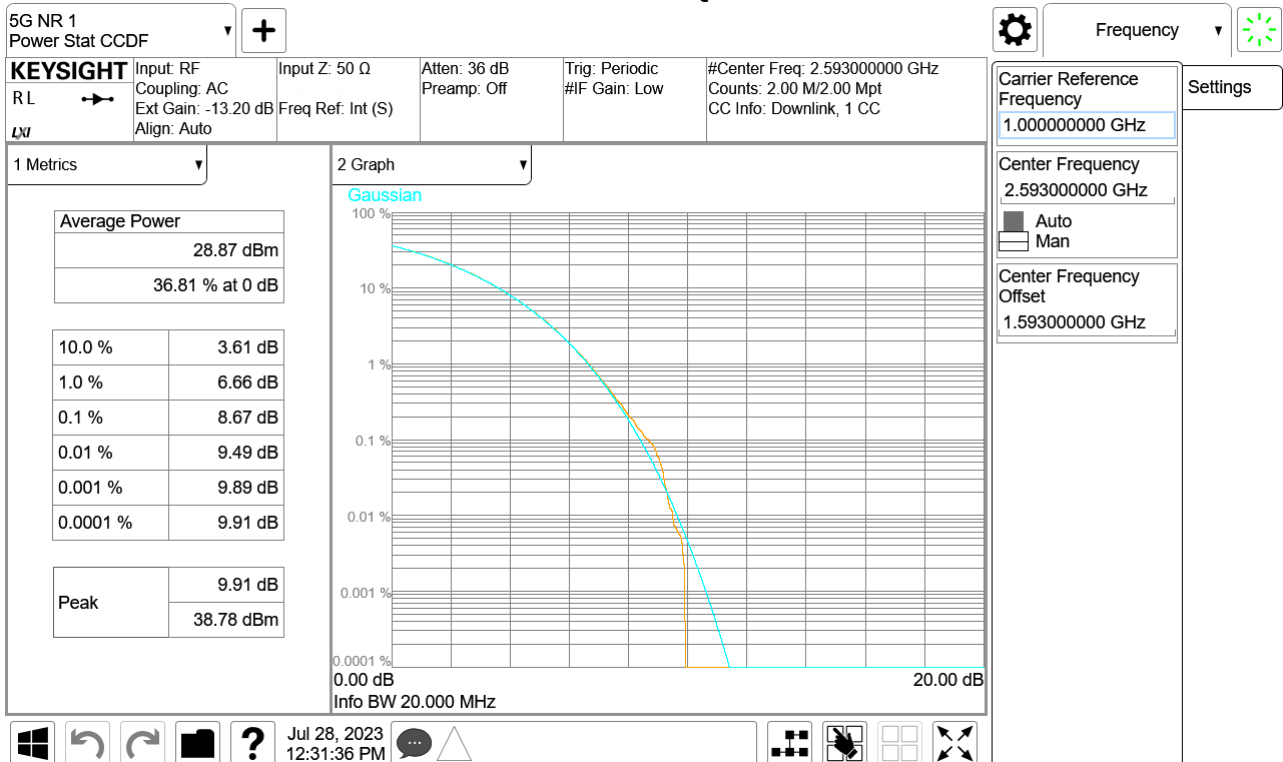
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Middle 64QAM



Middle 256QAM



Test mode : 5G NR 1C 40 MHz

Channel	Port	PAPR (dB)				Port	PAPR (dB)			
		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle	1	8.52	8.62	8.40	8.48	33	8.56	8.74	8.45	8.48
	2	8.43	8.62	8.61	8.50	34	8.55	8.65	8.50	8.53
	3	8.47	8.39	8.54	8.50	35	8.57	8.43	8.54	8.36
	4	8.53	8.63	8.52	8.46	36	8.51	8.60	8.45	8.35
	5	8.61	8.59	8.57	8.53	37	8.47	8.66	8.50	8.45
	6	8.61	8.40	8.43	8.51	38	8.52	8.64	8.47	8.43
	7	8.50	8.48	8.65	8.56	39	8.46	8.49	8.57	8.54
	8	8.56	8.61	8.51	8.39	40	8.55	8.50	8.43	8.49
	9	8.58	8.66	8.53	8.49	41	8.54	8.34	8.59	8.38
	10	8.58	8.49	8.53	8.45	42	8.58	8.52	8.48	8.50
	11	8.49	8.55	8.55	8.35	43	8.58	8.44	8.48	8.51
	12	8.39	8.53	8.52	8.54	44	8.50	8.46	8.55	8.50
	13	8.63	8.55	8.55	8.49	45	8.62	8.61	8.60	8.51
	14	8.42	8.65	8.54	8.44	46	8.52	8.52	8.60	8.49
	15	8.53	8.54	8.52	8.45	47	8.67	8.63	8.65	8.48
	16	8.52	8.38	8.52	8.56	48	8.47	8.58	8.51	8.50
	17	8.49	8.58	8.52	8.49	49	8.51	8.51	8.49	8.49
	18	8.55	8.33	8.50	8.42	50	8.55	8.51	8.60	8.41
	19	8.46	8.41	8.56	8.54	51	8.47	8.64	8.56	8.54
	20	8.53	8.49	8.62	8.49	52	8.57	8.35	8.43	8.52
	21	8.61	8.62	8.51	8.47	53	8.54	8.55	8.46	8.35
	22	8.55	8.49	8.51	8.44	54	8.54	8.58	8.44	8.54
	23	8.58	8.54	8.53	8.61	55	8.48	8.61	8.45	8.36
	24	8.60	8.51	8.48	8.49	56	8.59	8.62	8.49	8.52
	25	8.60	8.45	8.51	8.48	57	8.64	8.63	8.45	8.37
	26	8.51	8.50	8.43	8.44	58	8.57	8.34	8.57	8.51
	27	8.46	8.48	8.51	8.38	59	8.57	8.60	8.56	8.40
	28	8.52	8.65	8.52	8.47	60	8.55	8.44	8.61	8.51
	29	8.65	8.51	8.55	8.38	61	8.60	8.45	8.46	8.47
	30	8.44	8.57	8.45	8.35	62	8.61	8.46	8.45	8.44
	31	8.66	8.43	8.50	8.60	63	8.64	8.58	8.51	8.49
	32	8.62	8.53	8.44	8.49	64	8.49	8.57	8.42	8.48

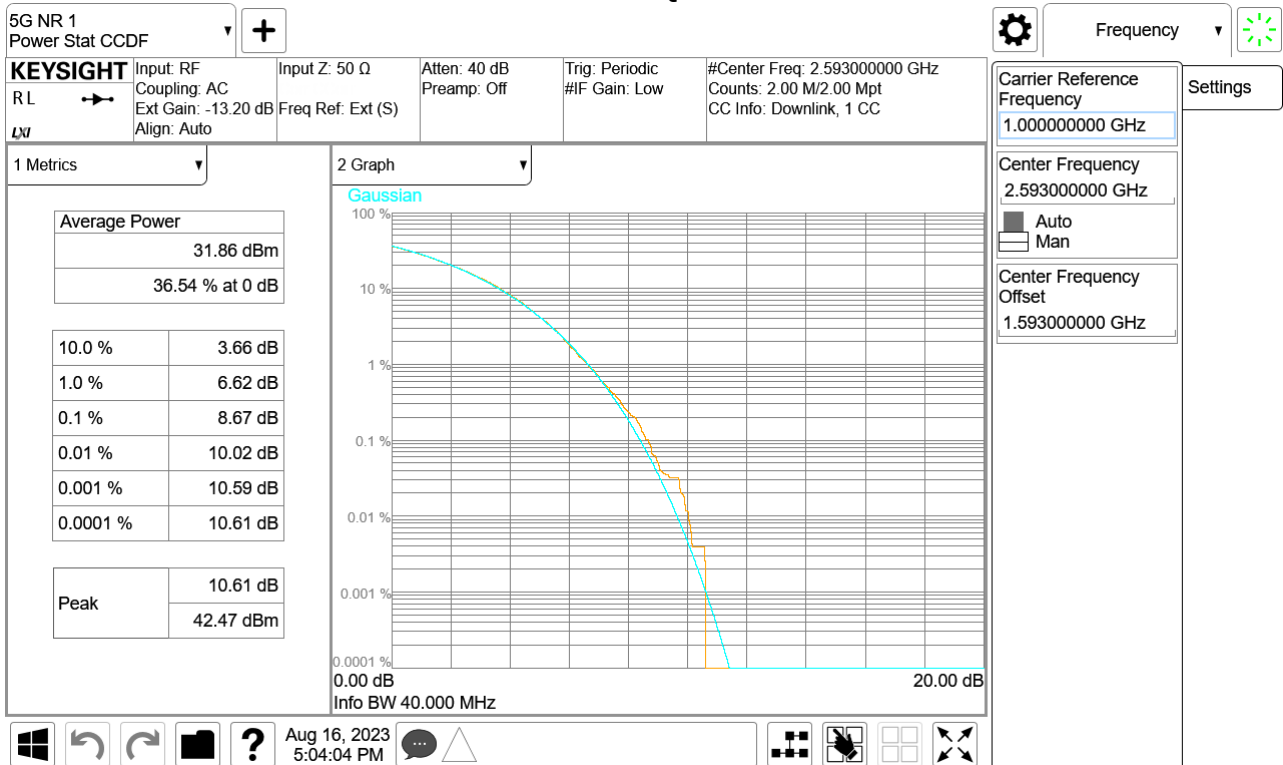
See next pages for actual measured spectrum plots



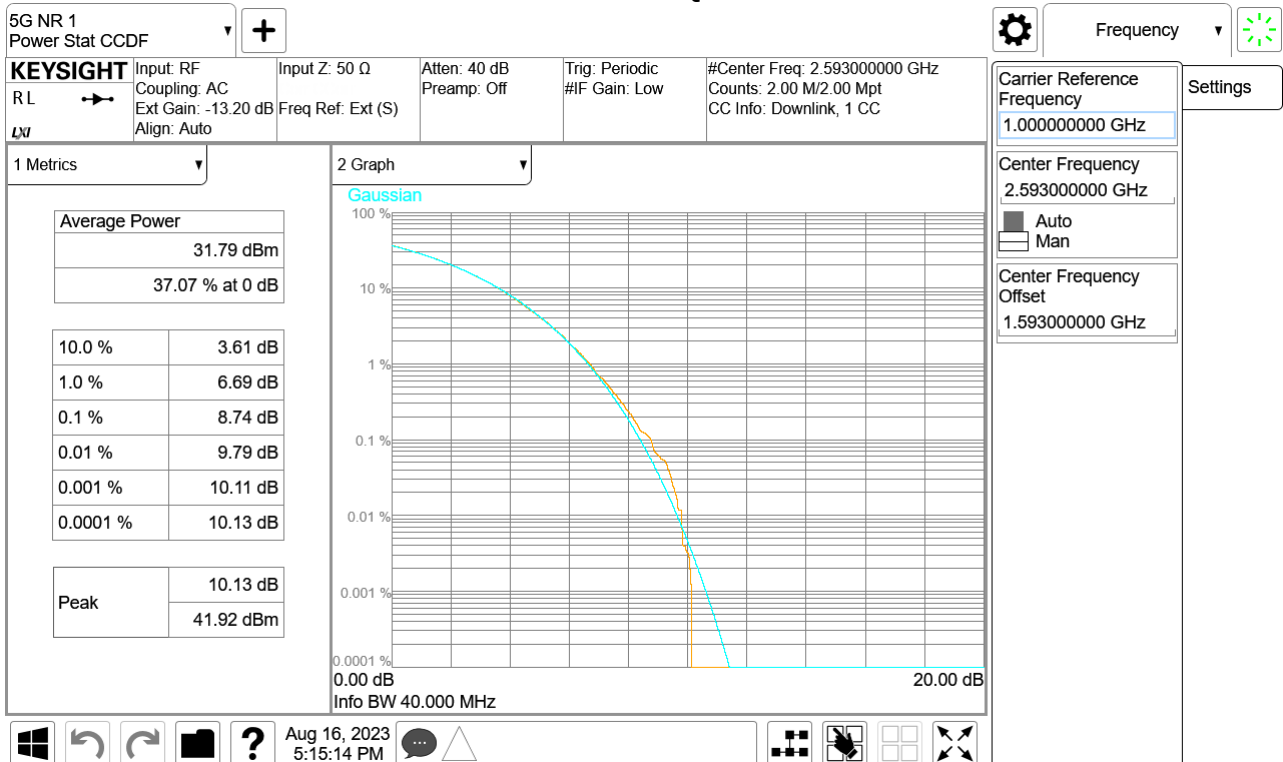
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Middle QPSK



Middle 16QAM

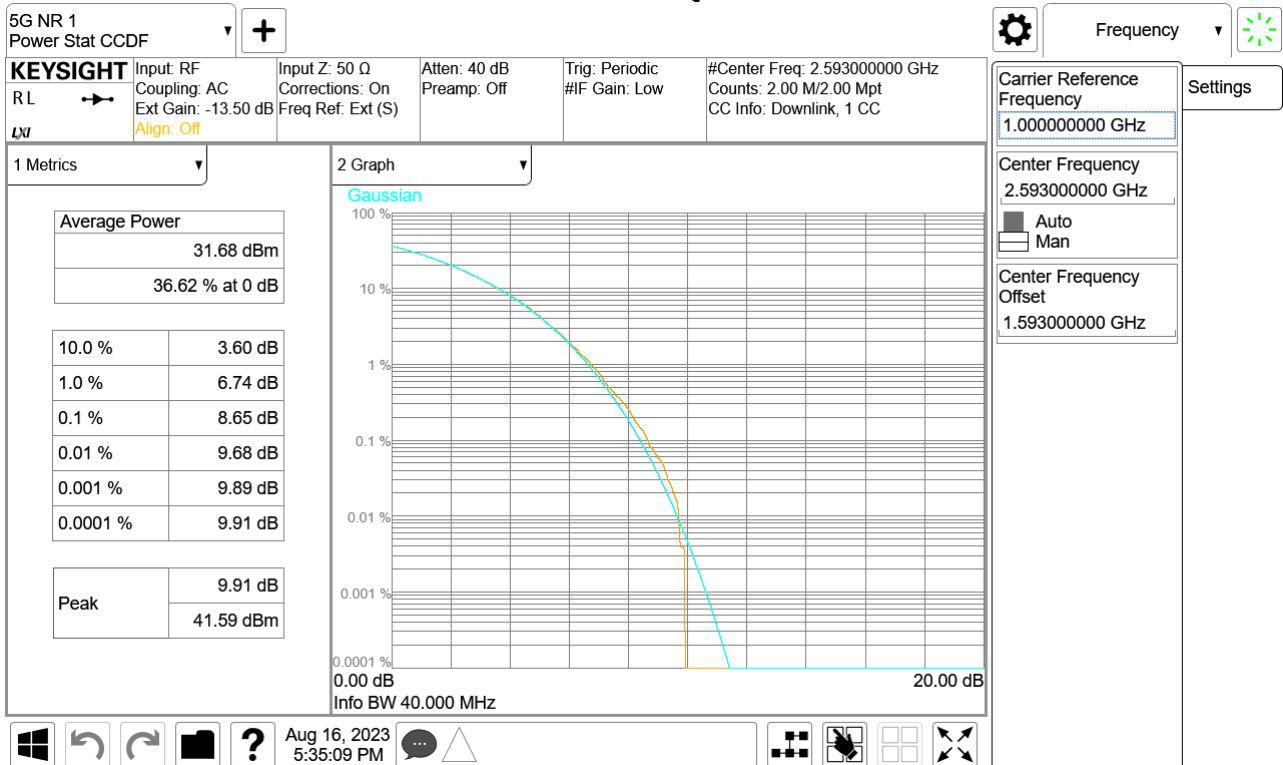




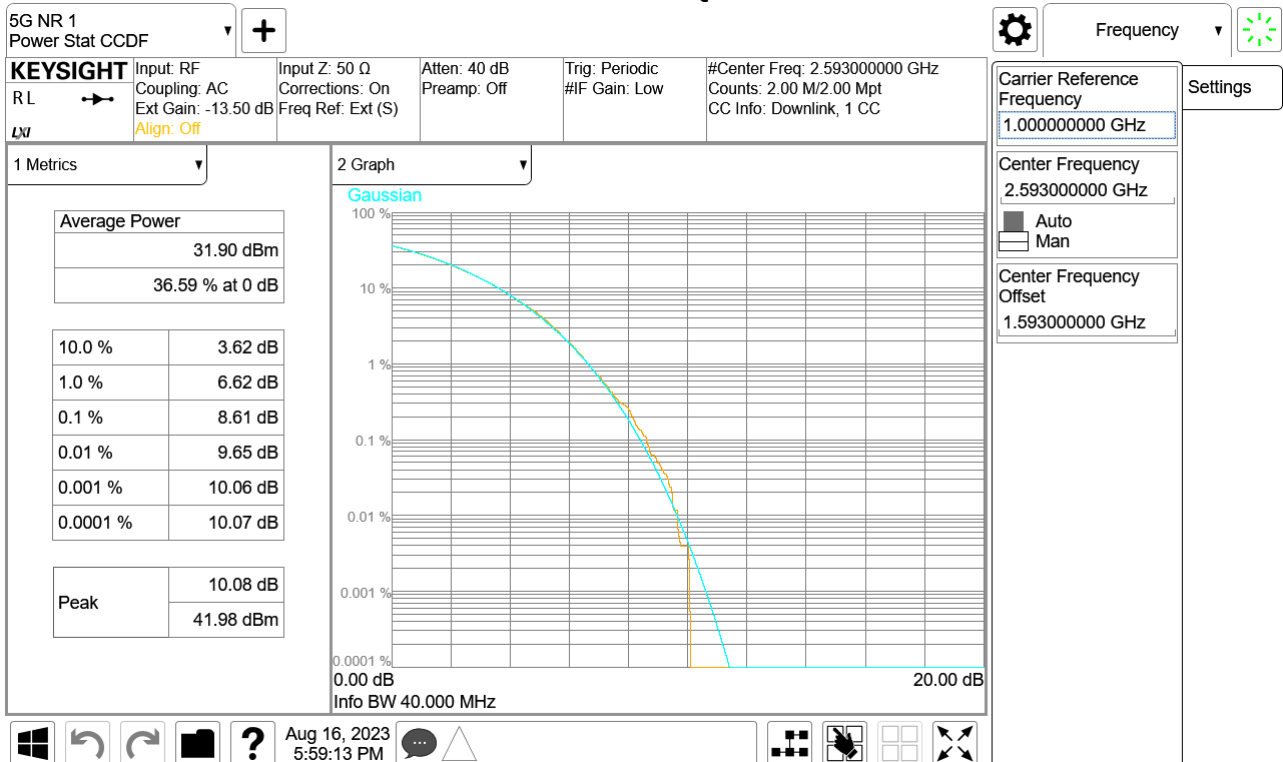
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Middle 64QAM



Middle 256QAM



Test mode : 5G NR 1C 50 MHz

Channel	Port	PAPR (dB)				Port	PAPR(dB)			
		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle	1	8.15	8.43	8.58	8.34	33	8.40	8.44	8.55	8.45
	2	8.43	8.43	8.48	8.34	34	8.29	8.43	8.49	8.31
	3	8.44	8.44	8.65	8.41	35	8.30	8.47	8.59	8.40
	4	8.35	8.42	8.64	8.30	36	8.18	8.44	8.60	8.35
	5	8.25	8.47	8.65	8.50	37	8.37	8.45	8.60	8.45
	6	8.18	8.43	8.55	8.36	38	8.30	8.44	8.55	8.30
	7	8.28	8.46	8.57	8.34	39	8.31	8.44	8.56	8.38
	8	8.39	8.44	8.58	8.44	40	8.28	8.45	8.55	8.35
	9	8.33	8.46	8.54	8.44	41	8.19	8.47	8.56	8.32
	10	8.24	8.42	8.58	8.35	42	8.41	8.43	8.53	8.47
	11	8.42	8.47	8.56	8.43	43	8.36	8.48	8.64	8.37
	12	8.38	8.41	8.61	8.46	44	8.34	8.44	8.52	8.43
	13	8.48	8.45	8.67	8.39	45	8.42	8.44	8.51	8.49
	14	8.19	8.42	8.54	8.36	46	8.29	8.43	8.57	8.45
	15	8.31	8.46	8.49	8.38	47	8.36	8.46	8.65	8.30
	16	8.34	8.43	8.53	8.36	48	8.21	8.43	8.57	8.35
	17	8.44	8.47	8.52	8.39	49	8.25	8.48	8.46	8.46
	18	8.38	8.41	8.57	8.37	50	8.45	8.45	8.55	8.31
	19	8.30	8.47	8.64	8.46	51	8.37	8.48	8.55	8.42
	20	8.14	8.42	8.59	8.40	52	8.41	8.43	8.53	8.35
	21	8.40	8.45	8.58	8.36	53	8.36	8.46	8.62	8.36
	22	8.29	8.43	8.56	8.40	54	8.31	8.43	8.62	8.42
	23	8.27	8.47	8.66	8.48	55	8.43	8.45	8.64	8.44
	24	8.21	8.43	8.55	8.48	56	8.37	8.44	8.60	8.34
	25	8.21	8.44	8.50	8.37	57	8.31	8.46	8.63	8.44
	26	8.15	8.43	8.43	8.38	58	8.32	8.44	8.47	8.38
	27	8.19	8.45	8.59	8.30	59	8.38	8.47	8.58	8.42
	28	8.35	8.44	8.61	8.41	60	8.25	8.44	8.56	8.34
	29	8.34	8.46	8.58	8.35	61	8.23	8.47	8.52	8.39
	30	8.12	8.43	8.46	8.50	62	8.25	8.41	8.62	8.37
	31	8.27	8.46	8.56	8.38	63	8.26	8.45	8.63	8.46
	32	8.44	8.44	8.60	8.37	64	8.26	8.42	8.54	8.42

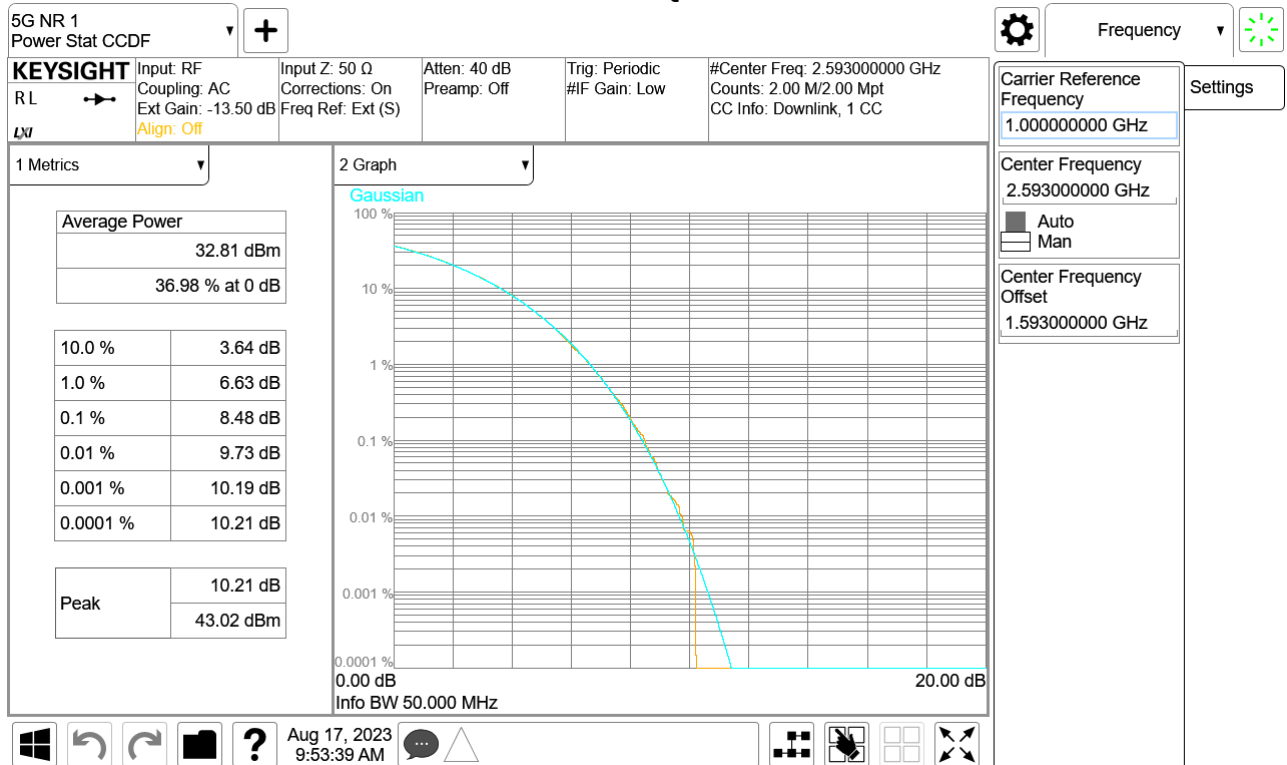
See next pages for actual measured spectrum plots.



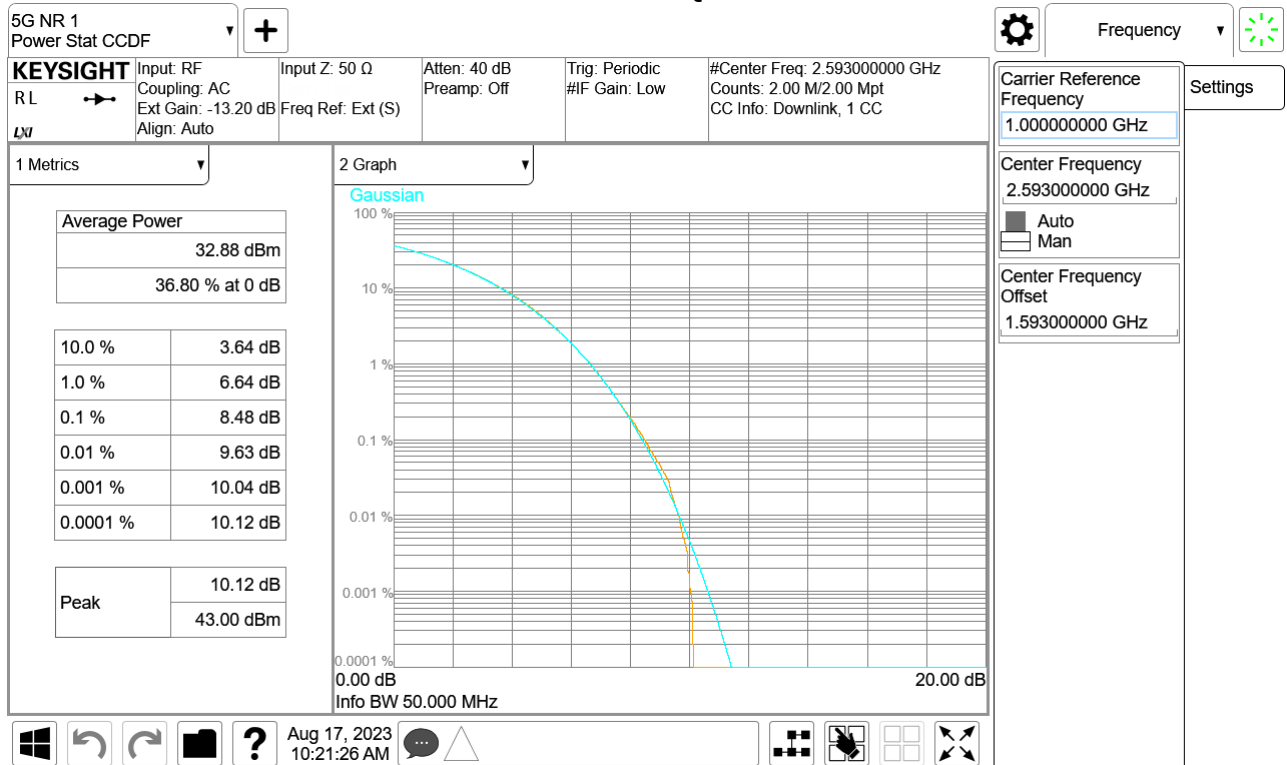
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Middle QPSK



Middle 16QAM

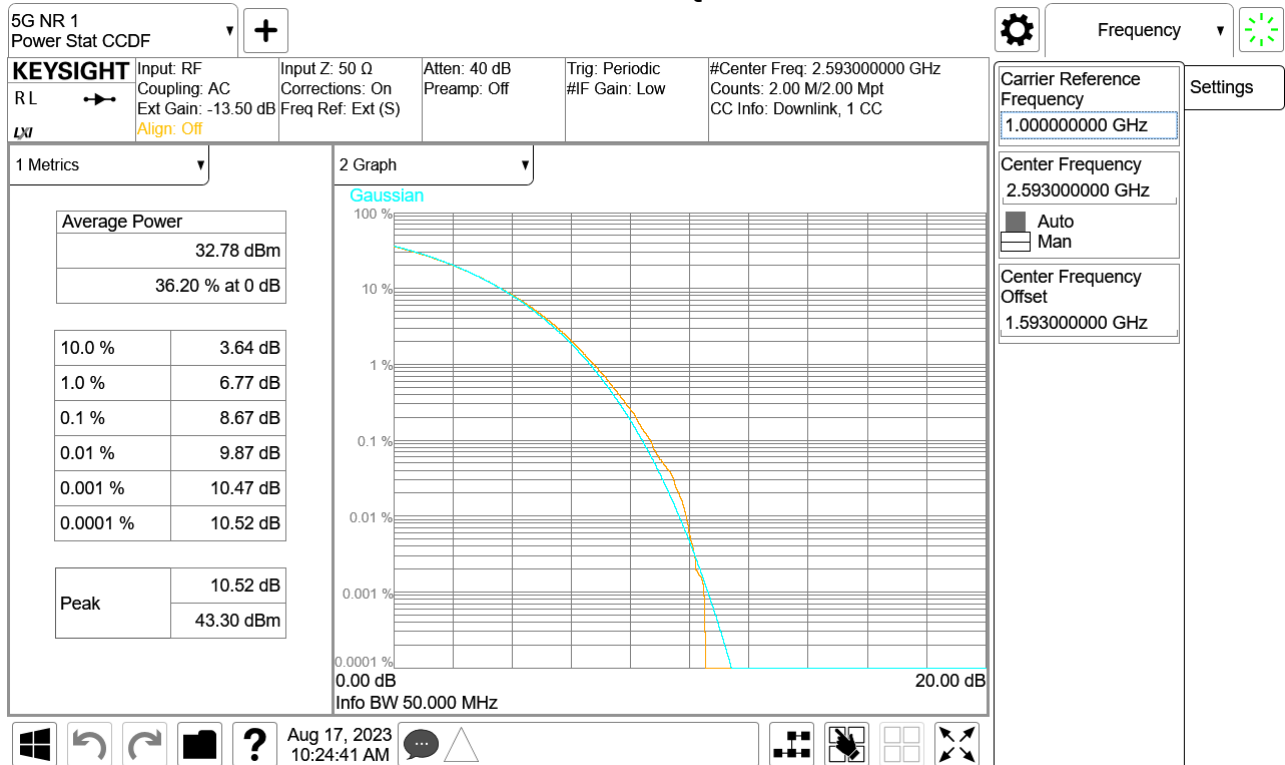




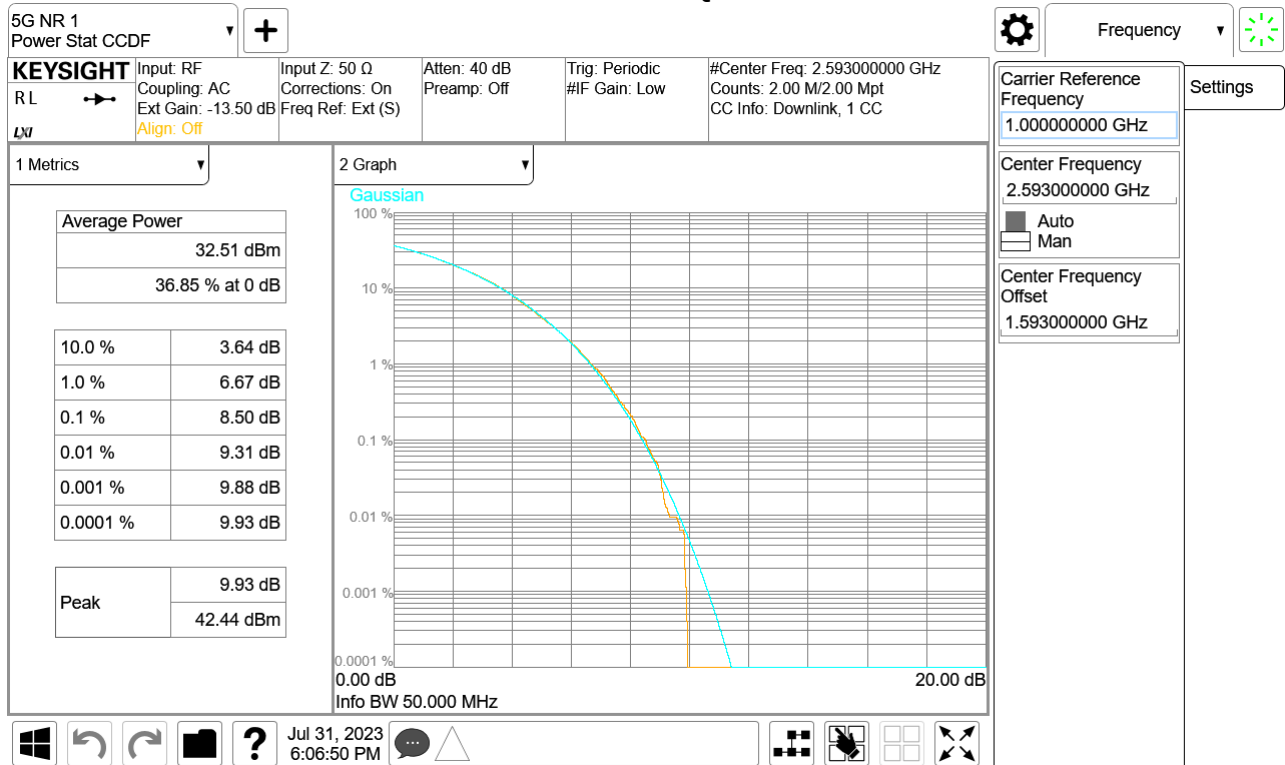
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Middle 64QAM



Middle 256QAM



Test mode : LTE 2C 20+20 MHz Contiguous

Channel	Port	PAPR (dB)				Port	PAPR (dB)			
		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle	1	8.25	8.47	8.50	8.31	33	8.64	8.41	8.31	8.40
	2	8.30	8.47	8.57	8.22	34	8.81	8.36	8.38	8.25
	3	8.22	8.46	8.55	8.35	35	8.45	8.48	8.32	8.44
	4	8.32	8.42	8.47	8.24	36	8.62	8.41	8.44	8.38
	5	8.35	8.50	8.36	8.37	37	8.84	8.41	8.48	8.29
	6	8.32	8.36	8.62	8.35	38	8.61	8.22	8.22	8.36
	7	8.32	8.47	8.53	8.34	39	8.58	8.38	8.42	8.27
	8	8.22	8.37	8.64	8.25	40	8.56	8.47	8.26	8.36
	9	8.31	8.25	8.45	8.30	41	8.48	8.48	8.28	8.37
	10	8.24	8.44	8.41	8.33	42	8.69	8.54	8.37	8.44
	11	8.49	8.41	8.41	8.26	43	8.67	8.43	8.19	8.59
	12	8.46	8.43	8.41	8.34	44	8.59	8.36	8.38	8.59
	13	8.37	8.50	8.42	8.36	45	8.54	8.44	8.37	8.38
	14	8.46	8.41	8.56	8.44	46	8.63	8.33	8.36	8.25
	15	8.27	8.50	8.57	8.36	47	8.54	8.43	8.36	8.27
	16	8.33	8.35	8.47	8.35	48	8.63	8.40	8.38	8.29
	17	8.37	8.43	8.56	8.29	49	8.42	8.46	8.29	8.31
	18	8.20	8.40	8.51	8.26	50	8.40	8.37	8.24	8.50
	19	8.23	8.46	8.66	8.38	51	8.77	8.54	8.38	8.46
	20	8.23	8.27	8.59	8.47	52	8.63	8.26	8.36	8.23
	21	8.20	8.34	8.52	8.15	53	8.42	8.47	8.35	8.31
	22	8.27	8.53	8.39	8.15	54	8.44	8.44	8.23	8.18
	23	8.31	8.45	8.34	8.16	55	8.42	8.32	8.29	8.33
	24	8.21	8.42	8.68	8.42	56	8.37	8.32	8.33	8.40
	25	8.27	8.50	8.44	8.33	57	8.45	8.37	8.26	8.38
	26	8.17	8.48	8.61	8.31	58	8.38	8.39	8.33	8.35
	27	8.41	8.51	8.39	8.32	59	8.57	8.44	8.50	8.16
	28	8.21	8.25	8.43	8.26	60	8.53	8.35	8.23	8.22
	29	8.18	8.41	8.59	8.26	61	8.58	8.44	8.36	8.19
	30	8.40	8.52	8.42	8.32	62	8.53	8.34	8.22	8.17
	31	8.34	8.43	8.53	8.30	63	8.34	8.31	8.35	8.37
	32	8.23	8.50	8.51	8.28	64	8.48	8.41	8.23	8.16

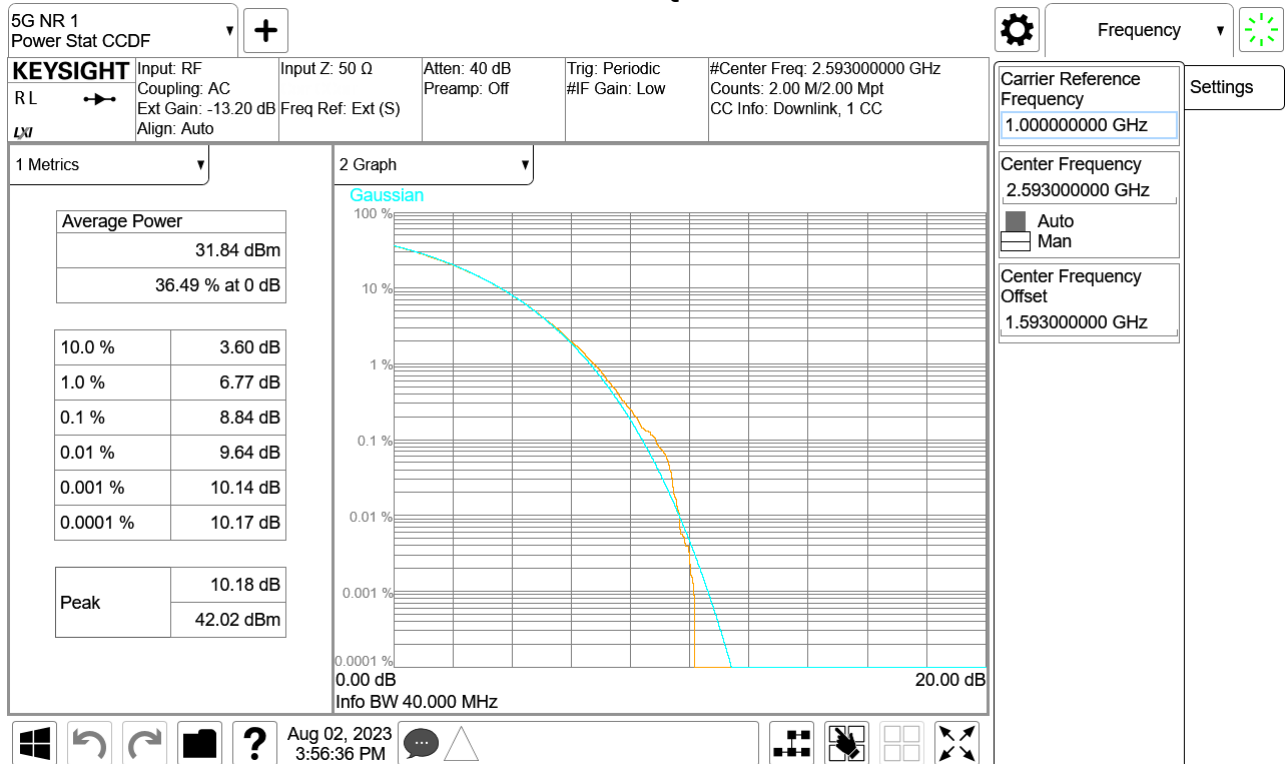
See next pages for actual measured spectrum plots.



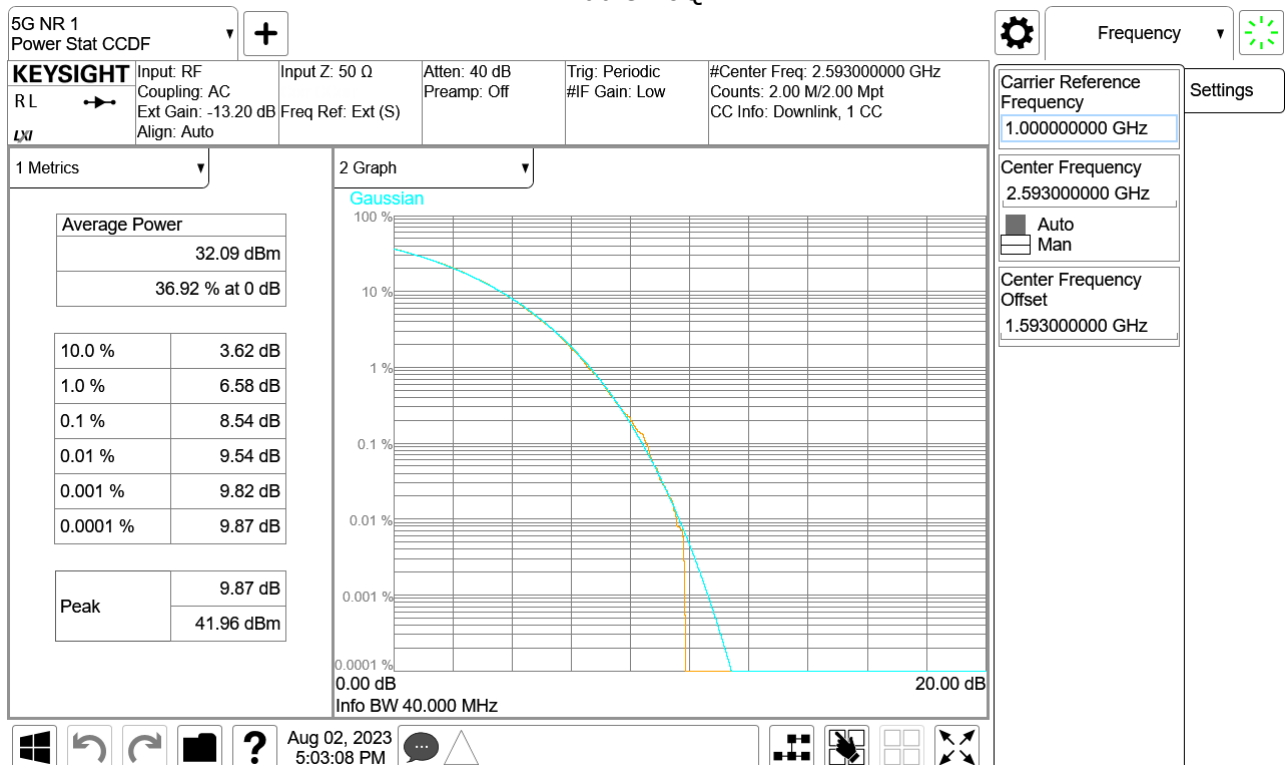
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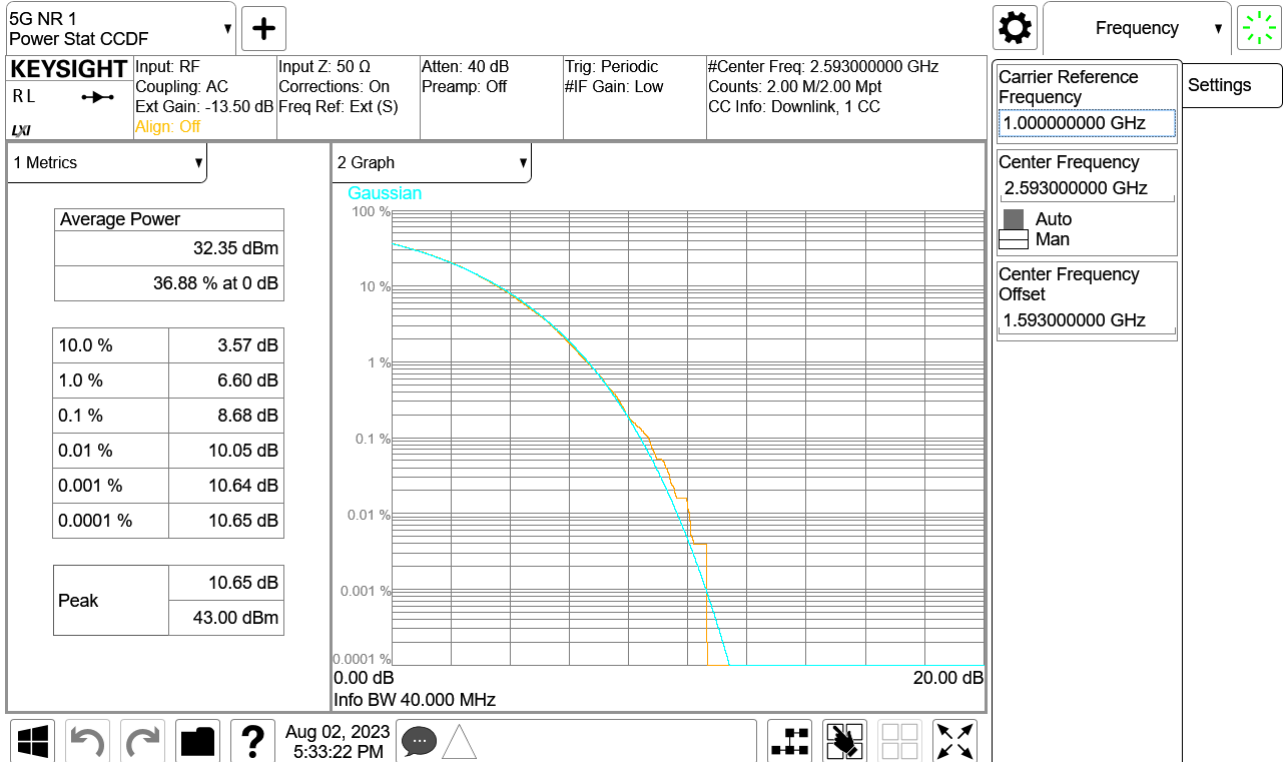
Middle QPSK



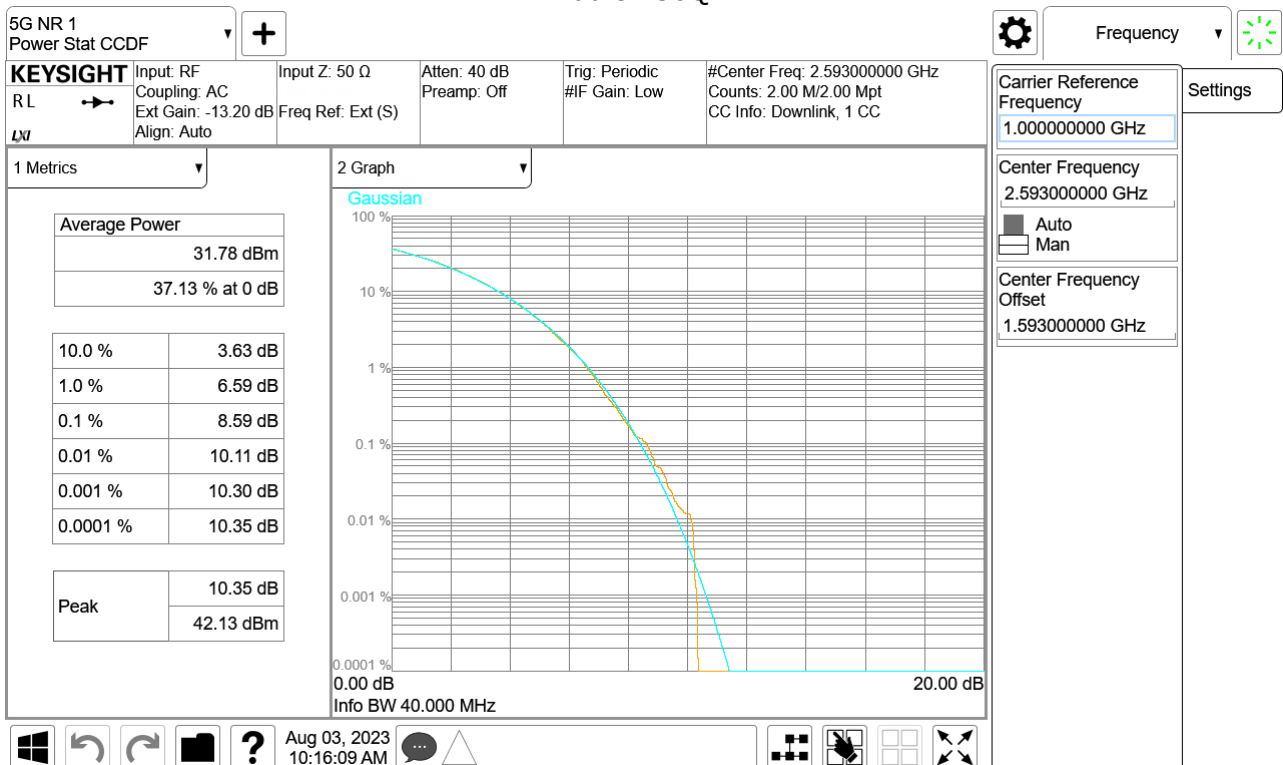
Middle 16QAM



Middle 64QAM



Middle 256QAM



Test mode : 5G NR 1C 40 MHz+LTE 2C 20+20 MHz Contiguous

Channel	Port	PAPR (dB)				Port	PAPR (dB)			
		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle	1	8.19	8.29	8.27	8.22	33	8.19	8.26	8.23	8.16
	2	8.28	8.29	8.29	8.18	34	8.22	8.23	8.28	8.16
	3	8.25	8.30	8.29	8.30	35	8.24	8.20	8.27	8.22
	4	8.28	8.29	8.26	8.19	36	8.13	8.19	8.29	8.18
	5	8.23	8.34	8.39	8.29	37	8.18	8.23	8.31	8.20
	6	8.25	8.21	8.27	8.22	38	8.17	8.21	8.25	8.20
	7	8.27	8.29	8.32	8.29	39	8.18	8.23	8.34	8.26
	8	8.32	8.25	8.29	8.25	40	8.19	8.18	8.24	8.17
	9	8.24	8.34	8.26	8.25	41	8.28	8.25	8.36	8.24
	10	8.29	8.22	8.21	8.23	42	8.21	8.25	8.32	8.25
	11	8.19	8.31	8.21	8.24	43	8.22	8.28	8.29	8.32
	12	8.17	8.26	8.23	8.25	44	8.20	8.26	8.36	8.25
	13	8.31	8.27	8.22	8.26	45	8.26	8.27	8.42	8.28
	14	8.18	8.27	8.26	8.22	46	8.27	8.18	8.35	8.28
	15	8.30	8.32	8.22	8.25	47	8.25	8.31	8.43	8.29
	16	8.25	8.25	8.18	8.20	48	8.25	8.27	8.35	8.23
	17	8.30	8.37	8.26	8.14	49	8.25	8.26	8.34	8.24
	18	8.28	8.29	8.27	8.10	50	8.17	8.26	8.32	8.21
	19	8.28	8.36	8.26	8.22	51	8.26	8.27	8.38	8.24
	20	8.25	8.34	8.29	8.18	52	8.24	8.25	8.32	8.22
	21	8.16	8.24	8.28	8.22	53	8.21	8.25	8.34	8.22
	22	8.16	8.24	8.23	8.20	54	8.21	8.22	8.31	8.22
	23	8.17	8.23	8.30	8.17	55	8.25	8.23	8.30	8.22
	24	8.22	8.30	8.28	8.12	56	8.17	8.20	8.23	8.24
	25	8.27	8.24	8.28	8.28	57	8.18	8.24	8.31	8.21
	26	8.25	8.26	8.33	8.16	58	8.22	8.29	8.31	8.18
	27	8.30	8.30	8.34	8.18	59	8.25	8.31	8.24	8.21
	28	8.24	8.26	8.27	8.20	60	8.19	8.28	8.20	8.17
	29	8.30	8.26	8.31	8.24	61	8.23	8.30	8.28	8.22
	30	8.29	8.21	8.25	8.23	62	8.22	8.28	8.27	8.22
	31	8.30	8.28	8.27	8.23	63	8.22	8.34	8.30	8.25
	32	8.25	8.21	8.26	8.22	64	8.18	8.36	8.26	8.19

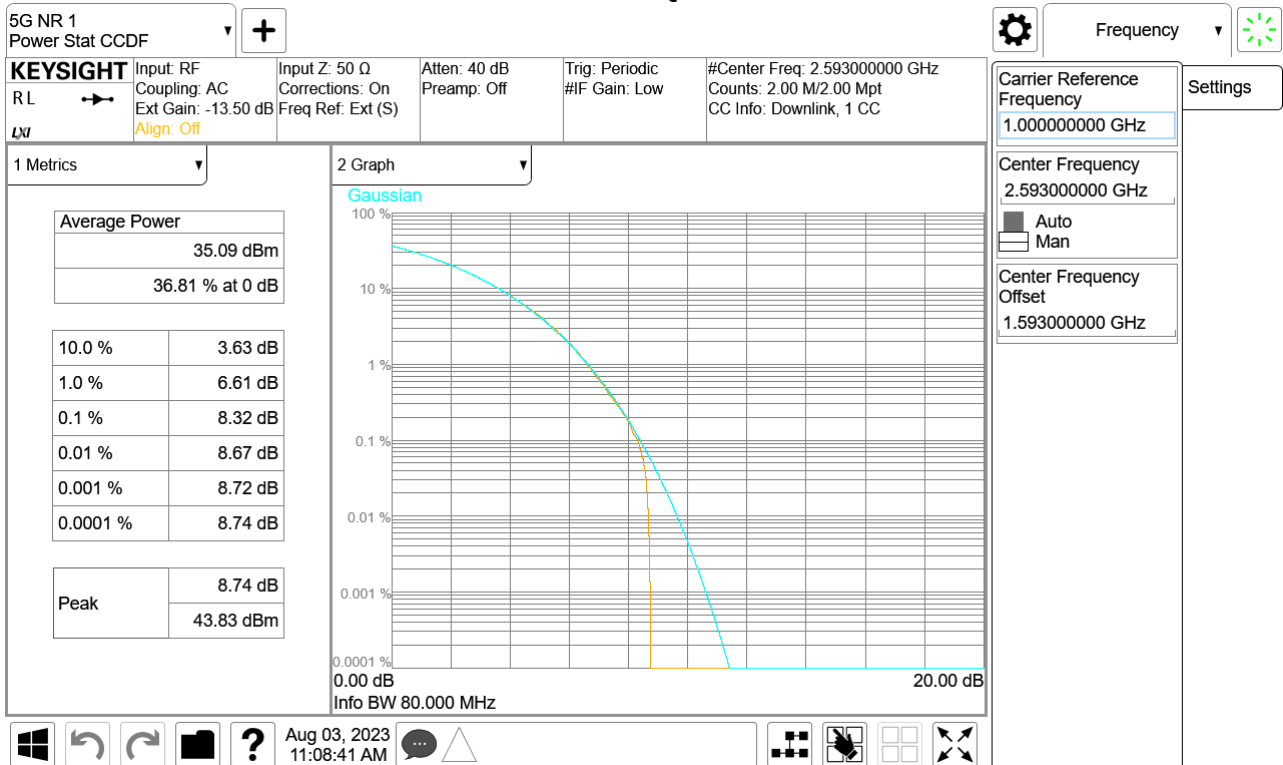
See next pages for actual measured spectrum plots.



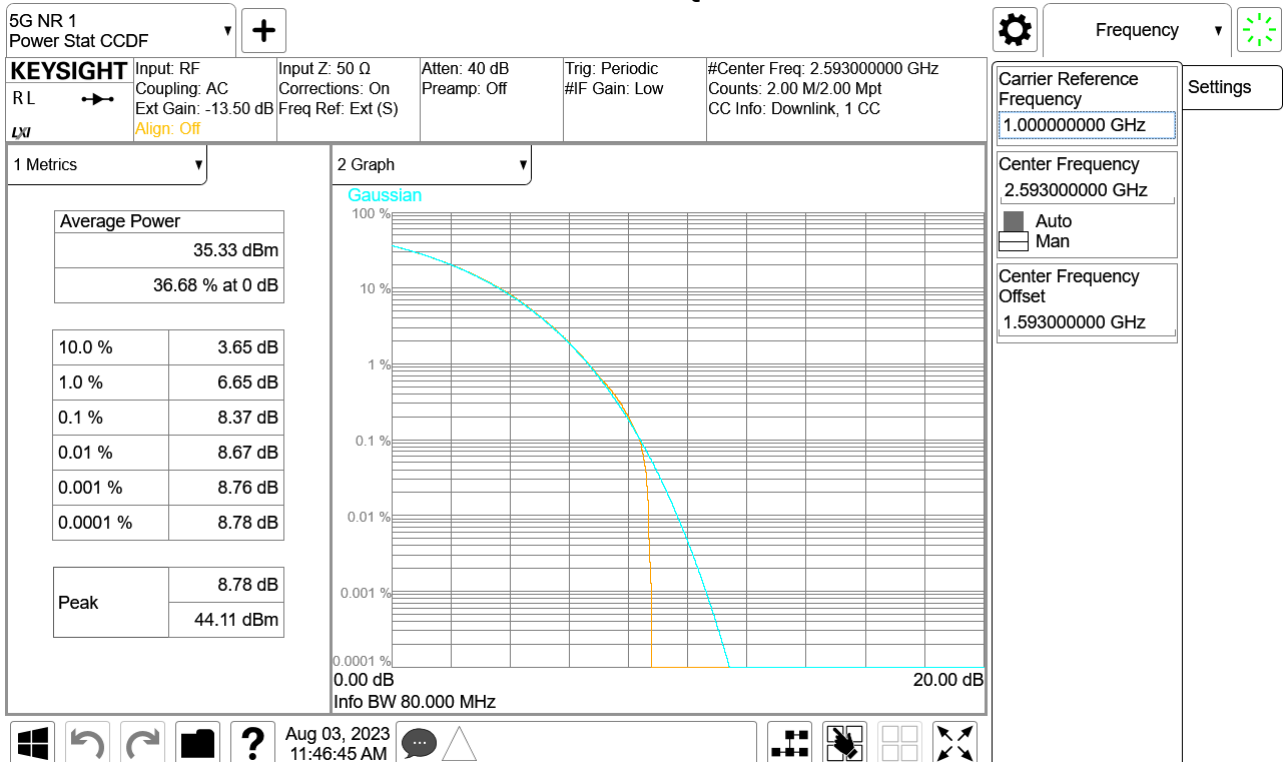
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Middle QPSK



Middle 16QAM

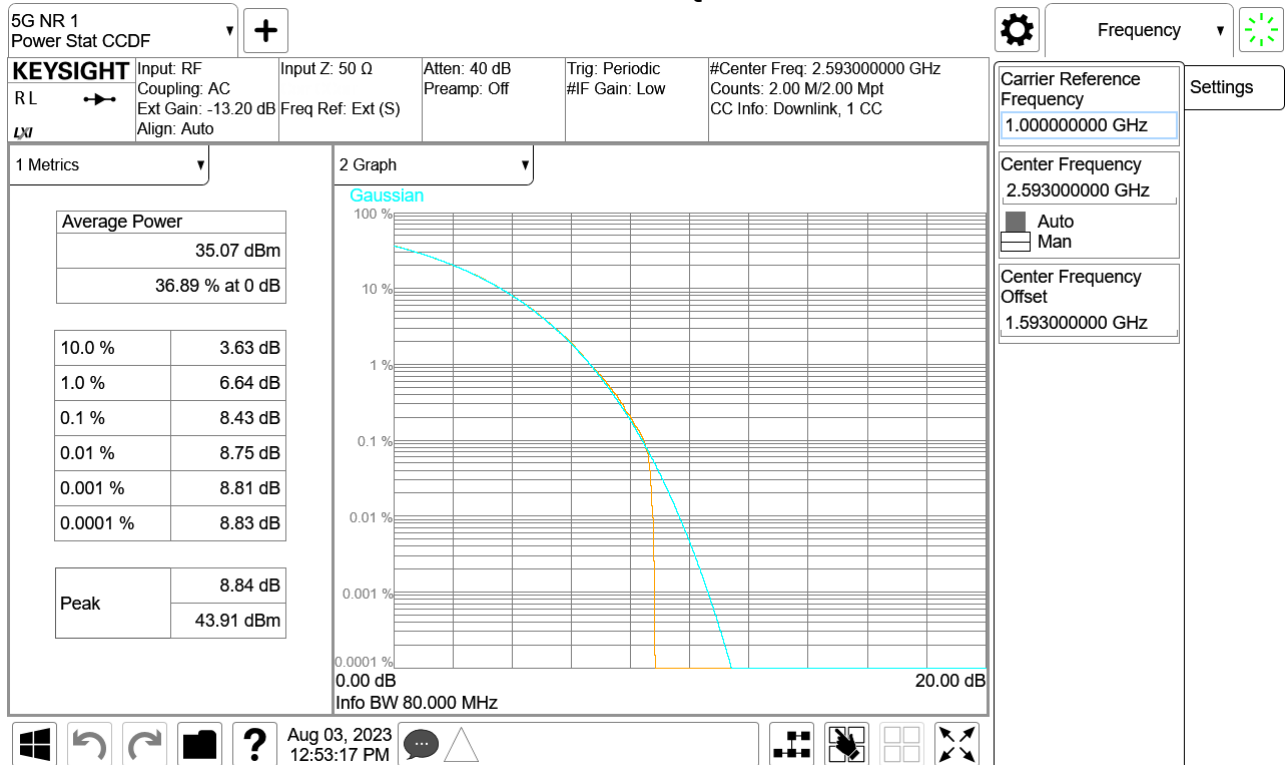




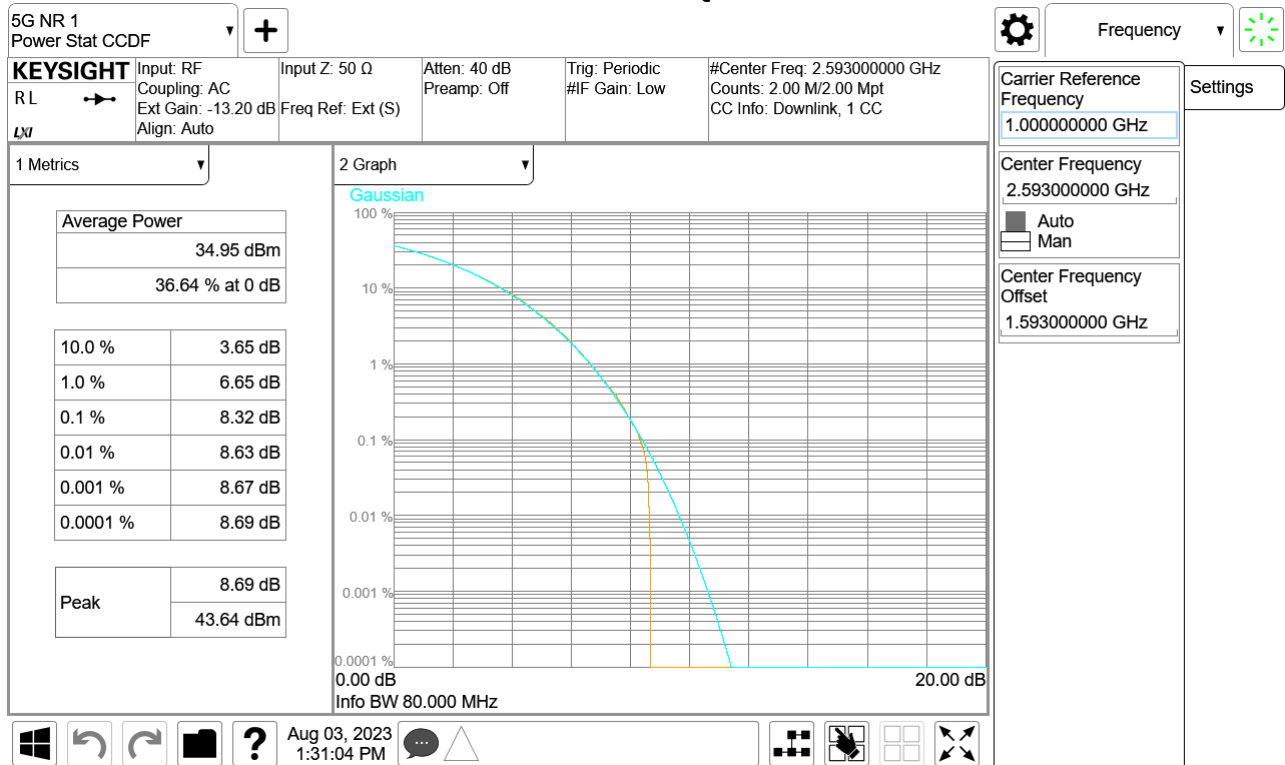
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Middle 64QAM



Middle 256QAM



Test mode : 5G NR 1C 50 MHz+LTE 2C 20+20 MHz Contiguous

Channel	Port	PAPR (dB)				Port	PAPR (dB)			
		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle	1	7.90	7.95	8.02	8.01	33	7.96	7.91	7.99	7.99
	2	7.90	7.92	7.98	7.90	34	7.89	7.99	7.93	7.94
	3	7.98	7.96	8.02	8.01	35	7.93	7.98	7.94	7.96
	4	7.91	7.92	7.98	7.96	36	7.92	7.89	7.96	7.90
	5	7.93	7.96	7.95	7.93	37	7.93	7.99	8.00	7.93
	6	7.95	7.92	7.97	7.92	38	7.92	7.97	7.94	7.93
	7	7.99	7.95	8.04	7.96	39	7.91	7.95	8.02	7.97
	8	7.90	7.93	8.00	7.95	40	7.90	7.89	8.00	7.89
	9	7.94	7.95	7.98	7.99	41	7.94	7.94	7.94	7.90
	10	7.90	7.94	7.94	7.92	42	7.92	7.94	7.96	7.93
	11	7.94	7.94	7.99	7.87	43	7.98	7.94	7.94	7.96
	12	7.92	7.95	7.95	7.92	44	7.94	7.94	7.99	7.95
	13	7.98	8.00	8.01	7.98	45	7.92	7.97	7.95	7.96
	14	7.94	7.96	7.98	7.95	46	7.90	7.95	7.99	7.93
	15	7.97	7.99	8.01	7.99	47	7.94	7.97	7.98	7.90
	16	7.93	7.99	7.98	7.87	48	7.95	7.91	7.94	7.88
	17	7.94	7.98	7.94	7.94	49	7.93	7.98	7.97	7.95
	18	7.93	7.98	7.94	7.93	50	7.93	7.95	7.97	7.91
	19	7.96	7.95	7.96	7.95	51	7.93	7.99	7.96	7.94
	20	7.92	7.96	7.95	7.91	52	7.94	7.94	7.98	7.92
	21	7.95	7.96	7.98	7.92	53	7.91	7.97	7.91	7.92
	22	7.95	7.97	7.91	7.90	54	7.92	7.96	7.97	7.92
	23	7.97	7.97	7.99	7.92	55	7.88	7.99	7.98	7.92
	24	7.91	7.95	7.94	7.89	56	7.94	7.94	7.95	7.90
	25	7.99	7.94	8.00	7.94	57	7.96	7.92	7.95	7.92
	26	7.91	7.86	7.95	7.88	58	7.91	7.93	7.89	7.87
	27	7.91	7.94	7.98	7.92	59	7.97	7.91	7.97	7.94
	28	7.92	7.88	7.97	7.89	60	7.92	7.91	7.89	7.92
	29	7.96	7.96	7.99	7.96	61	7.91	7.99	7.94	7.93
	30	7.89	7.95	7.95	7.89	62	7.87	7.97	7.95	7.94
	31	7.97	7.96	8.00	7.93	63	7.91	7.96	7.94	7.92
	32	7.92	7.96	7.95	7.90	64	7.91	7.96	7.92	7.89

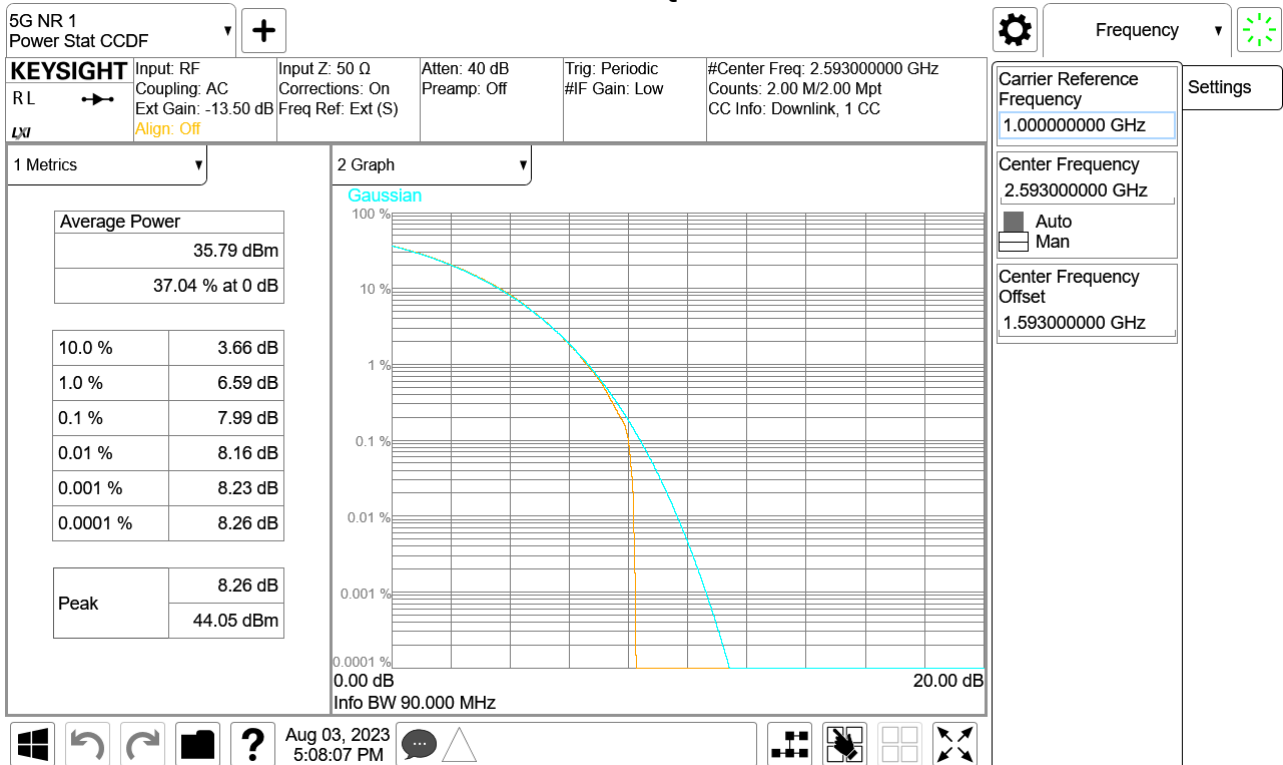
See next pages for actual measured spectrum plots.



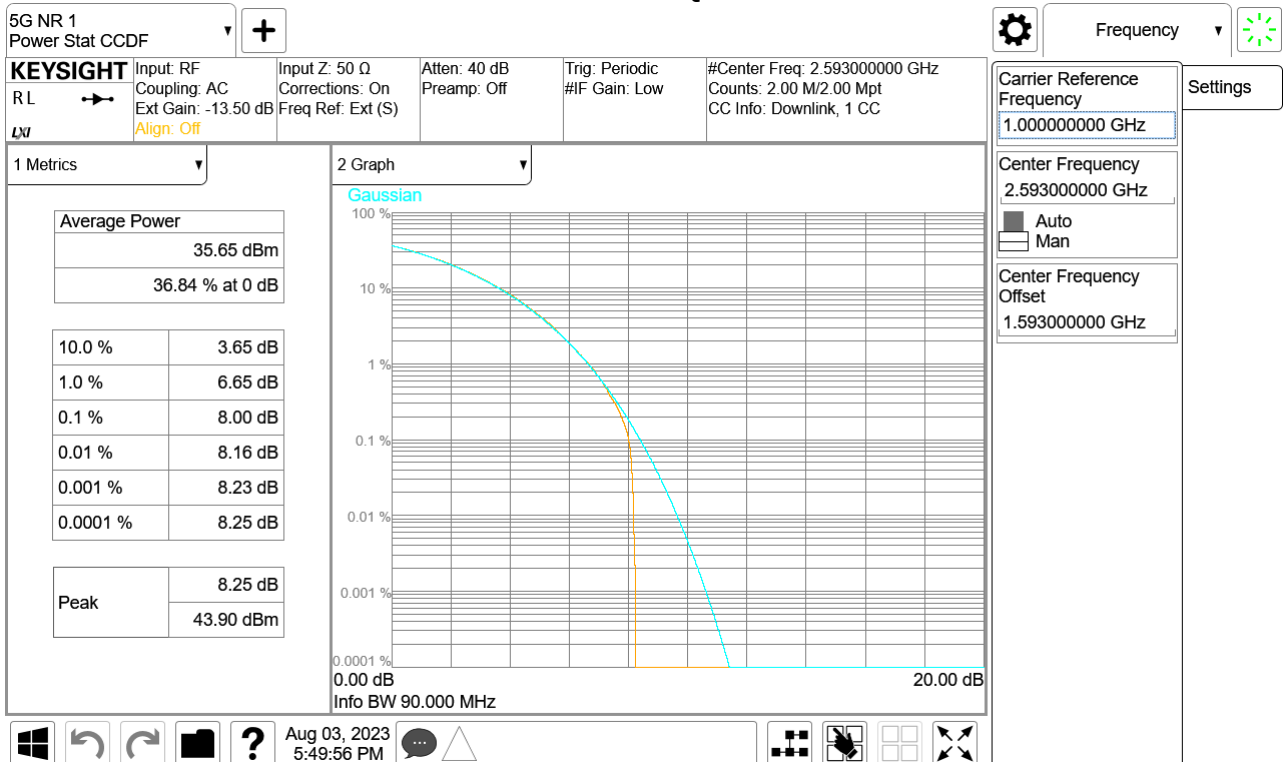
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Middle QPSK



Middle 16QAM

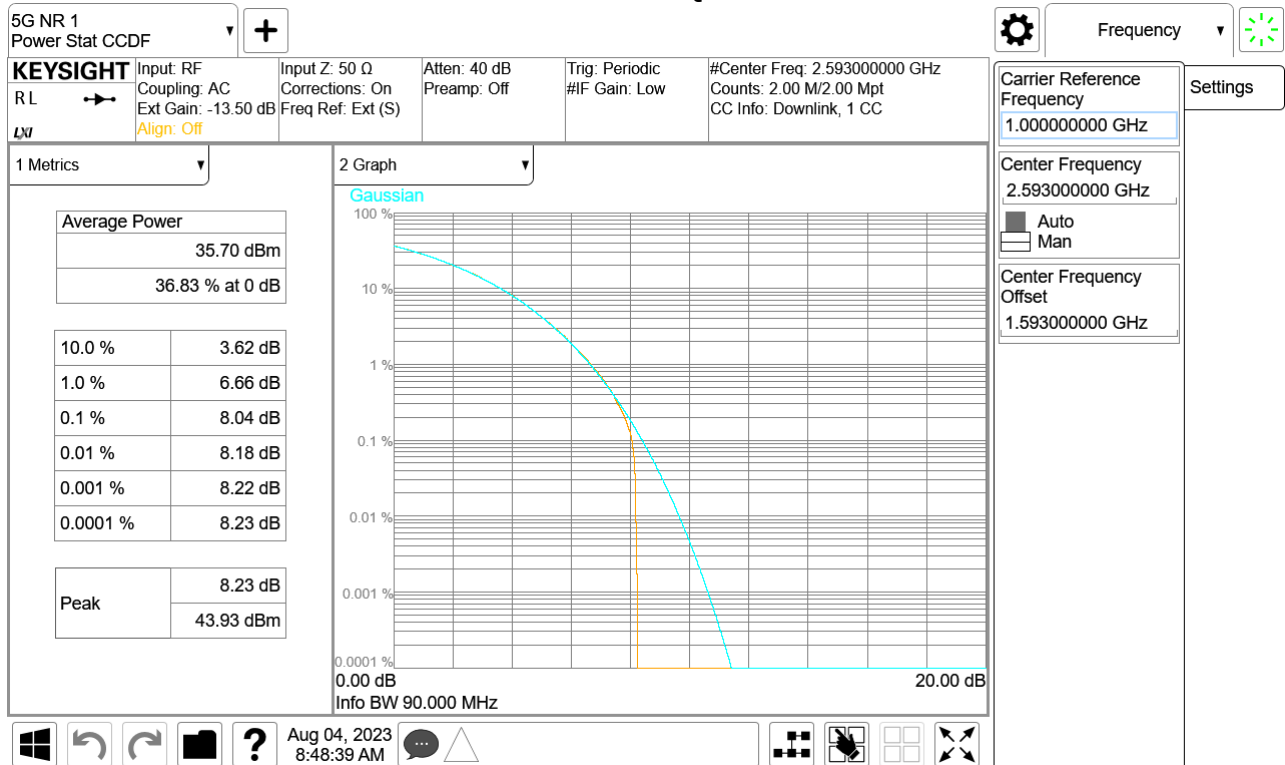




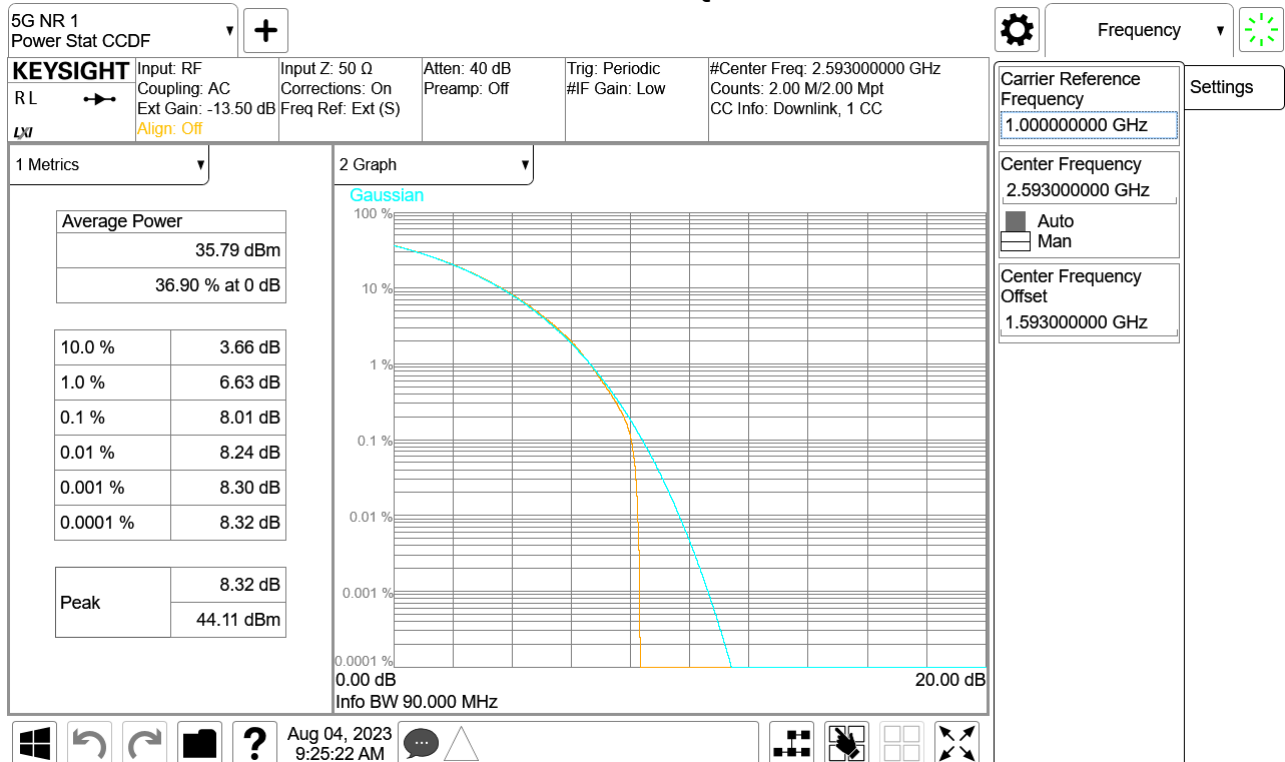
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Middle 64QAM



Middle 256QAM



4.4 Band Edge Emissions at Antenna Terminal

Test Procedures :

KDB 971168 D01 v03r01 – Section 6

KDB 662911 D01 v02r01 – Section E)3) Out-of-Band and Spurious Emission Measurements

a) Absolute Emission Limits

ANSI C63.26-2015 – Section 5.7

Test Settings :

Center frequency = Set a point 1MHz away from the operating band edge.

a) RBW = Please see test notes below.

b) VBW $\geq 3 \times$ RBW

c) Detector = RMS

d) Sweep time = auto couple

e) Trace mode= trace average

f) Sweep point $\geq 2 \times$ span / RBW

g) Allow trace to fully stabilize

h) Use the peak marker function to determine the maximum amplitude level.

Limit :

The minimum permissible attenuation level of any spurious emission is $43 + \log_{10}(P[\text{Watts}])$, where P is the transmitter power in Watts. The power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -31.06 dBm $[-13 \text{ dBm} - 10 \log(64)]$ per KDB 662911 D01 v02r01 - section E)3) because the EUT operate as a 64 port MIMO transmitter.

Test note :

1. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
2. Apply the duty factor value on page 7 of the test report along with the cable loss to the offset of the spectrum analyzer.

Test Data :

Test mode : LTE 1C 20 MHz

Channel	Port #	Measurement Range	Bandedge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Lowest	1	2 495 MHz to 2 496 MHz	-35.57	-36.03	-34.25	-35.95	-31.06
	2		-35.39	-35.76	-34.00	-36.13	
	3		-35.92	-36.20	-35.15	-36.08	
	4		-34.91	-35.41	-34.18	-35.67	
	5		-34.93	-35.28	-33.84	-35.01	
	6		-35.97	-36.06	-34.79	-36.18	
	7		-35.59	-35.79	-34.20	-36.46	
	8		-35.46	-35.56	-34.91	-36.01	
	9		-35.51	-36.37	-34.58	-36.09	
	10		-35.30	-36.01	-34.30	-36.08	
	11		-35.72	-36.39	-34.79	-36.62	
	12		-34.66	-35.17	-33.37	-35.21	
	13		-35.13	-35.76	-34.40	-35.63	
	14		-35.20	-35.47	-34.41	-35.71	
	15		-34.47	-35.23	-33.46	-34.79	
	16		-35.40	-36.15	-34.40	-35.78	
	17		-34.90	-35.46	-34.19	-35.40	
	18		-35.66	-36.16	-35.42	-36.69	
	19		-34.37	-35.43	-33.52	-35.27	
	20		-34.74	-34.94	-34.58	-35.38	
	21		-36.13	-36.59	-35.61	-37.23	
	22		-35.60	-36.19	-34.48	-35.87	
	23		-33.81	-33.98	-32.95	-34.47	
	24		-34.82	-35.31	-33.68	-35.73	
	25		-35.59	-36.28	-34.35	-35.98	
	26		-36.15	-36.72	-35.42	-36.75	
	27		-34.95	-35.55	-33.80	-35.31	
	28		-36.41	-36.94	-36.25	-36.68	
	29		-35.48	-36.21	-34.79	-35.96	
	30		-34.99	-35.91	-34.09	-35.64	
	31		-34.49	-35.03	-33.41	-34.86	
	32		-34.86	-35.19	-34.04	-35.47	
	33		-35.11	-35.86	-34.08	-35.58	
	34		-35.22	-36.19	-34.95	-36.46	
	35		-35.57	-36.23	-34.00	-35.97	
	36		-35.52	-35.29	-34.30	-35.85	
	37		-35.75	-35.80	-34.83	-36.23	
	38		-34.98	-35.34	-34.66	-36.12	
	39		-34.83	-35.27	-33.62	-35.29	
	40		-35.62	-35.91	-34.88	-36.73	
	41		-35.71	-35.99	-35.18	-36.28	
	42		-35.41	-36.08	-34.85	-36.06	
	43		-34.25	-35.04	-33.10	-34.81	
	44		-34.89	-35.15	-33.92	-35.04	
	45		-35.61	-36.05	-34.85	-35.93	
	46		-34.89	-35.96	-35.14	-35.88	
	47		-35.67	-36.26	-35.01	-36.56	
	48		-35.36	-35.99	-34.72	-36.23	
	49		-34.81	-35.10	-34.05	-35.51	
	50		-36.03	-36.63	-35.71	-36.63	
	51		-35.37	-35.85	-34.53	-35.74	
	52		-35.15	-35.39	-33.98	-35.28	
	53		-35.33	-36.28	-35.12	-35.90	
	54		-36.18	-36.72	-36.28	-36.75	
	55		-35.90	-36.35	-35.28	-36.52	
	56		-36.00	-36.37	-35.48	-37.08	
	57		-35.94	-36.51	-35.48	-36.62	
	58		-35.74	-36.24	-34.83	-36.80	
	59		-35.72	-36.33	-34.56	-36.32	
	60		-35.30	-36.19	-34.96	-36.59	
	61		-36.03	-36.52	-35.56	-36.59	
	62		-35.64	-35.89	-34.16	-36.25	
	63		-34.96	-35.70	-33.89	-35.86	
	64		-36.13	-36.48	-35.18	-36.72	

Channel	Port #	Measurement Range	Bandedge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Highest	1	2 690 MHz to 2 691 MHz	-37.50	-38.06	-38.02	-38.00	-31.06
	2		-36.92	-37.26	-35.87	-36.88	
	3		-37.09	-37.68	-37.96	-37.07	
	4		-37.30	-36.67	-37.67	-38.07	
	5		-37.94	-37.90	-37.97	-37.91	
	6		-37.67	-37.65	-37.79	-37.47	
	7		-37.88	-38.11	-37.92	-37.41	
	8		-38.08	-38.19	-38.49	-38.01	
	9		-37.24	-37.06	-37.58	-37.52	
	10		-37.00	-37.38	-37.64	-37.40	
	11		-36.99	-37.46	-37.43	-37.87	
	12		-36.75	-37.20	-36.60	-36.61	
	13		-37.22	-37.40	-37.62	-37.42	
	14		-36.59	-36.52	-37.09	-37.15	
	15		-36.67	-37.76	-37.60	-37.99	
	16		-37.44	-37.88	-37.44	-37.64	
	17		-37.41	-37.48	-37.92	-36.95	
	18		-37.83	-37.53	-37.07	-37.14	
	19		-37.14	-37.31	-37.89	-37.37	
	20		-37.31	-37.03	-38.32	-37.06	
	21		-36.73	-37.03	-37.22	-37.20	
	22		-37.30	-37.47	-37.00	-36.90	
	23		-37.69	-37.99	-37.68	-37.50	
	24		-36.79	-37.43	-37.56	-37.69	
	25		-37.25	-38.19	-37.49	-37.69	
	26		-37.64	-37.92	-38.31	-37.71	
	27		-38.29	-38.38	-37.95	-38.09	
	28		-37.93	-38.34	-38.35	-38.27	
	29		-37.71	-37.77	-37.94	-37.19	
	30		-38.11	-37.73	-38.05	-37.70	
	31		-37.24	-38.21	-37.80	-37.87	
	32		-37.28	-38.16	-37.78	-37.92	
	33		-37.86	-36.79	-37.94	-38.08	
	34		-37.31	-37.15	-37.75	-37.67	
	35		-36.97	-37.32	-37.98	-37.28	
	36		-37.14	-37.44	-37.37	-37.41	
	37		-37.34	-37.59	-38.10	-37.88	
	38		-36.64	-36.96	-36.27	-36.85	
	39		-37.63	-38.32	-38.03	-38.35	
	40		-37.11	-37.42	-37.23	-37.60	
	41		-38.08	-38.49	-38.53	-38.02	
	42		-36.79	-37.44	-37.07	-37.20	
	43		-36.97	-38.01	-38.22	-38.09	
	44		-37.34	-37.69	-37.95	-37.74	
	45		-37.19	-37.80	-38.13	-37.94	
	46		-37.35	-37.49	-37.41	-37.31	
	47		-37.19	-38.15	-38.09	-37.86	
	48		-37.47	-37.73	-38.20	-37.97	
	49		-38.17	-38.39	-38.78	-38.28	
	50		-37.53	-38.11	-38.16	-37.89	
	51		-37.18	-37.82	-37.51	-37.43	
	52		-37.24	-37.48	-37.83	-37.87	
	53		-37.27	-37.67	-37.27	-36.89	
	54		-37.51	-37.68	-38.09	-37.39	
	55		-37.17	-37.86	-37.36	-37.56	
	56		-37.42	-37.83	-38.38	-37.83	
	57		-37.80	-38.03	-38.07	-38.02	
	58		-37.55	-38.33	-38.48	-38.28	
	59		-37.43	-38.03	-38.77	-37.99	
	60		-37.15	-37.86	-37.29	-37.59	
	61		-37.22	-37.54	-37.77	-37.49	
	62		-38.04	-37.66	-38.33	-37.99	
	63		-37.39	-37.88	-38.06	-37.91	
	64		-36.99	-36.96	-37.73	-37.57	

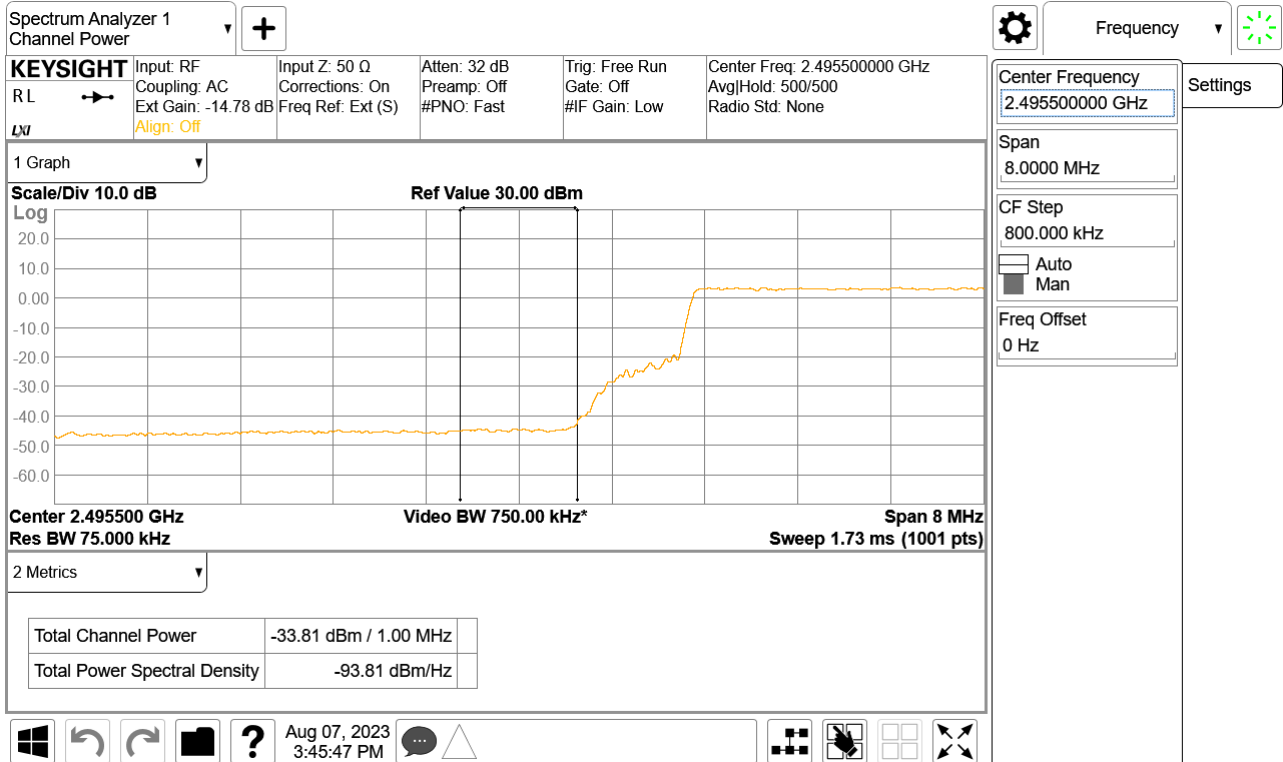
See next pages for actual measured spectrum plots.



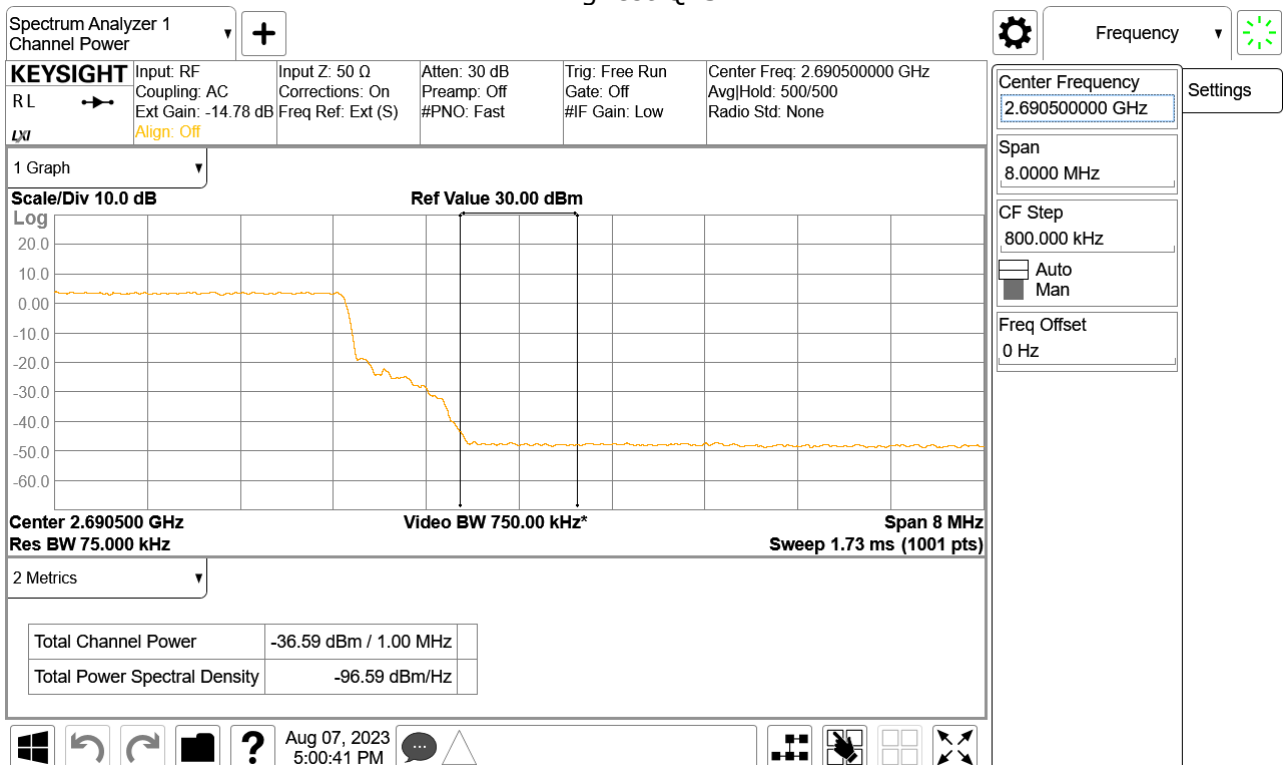
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Lowest QPSK



Highest QPSK

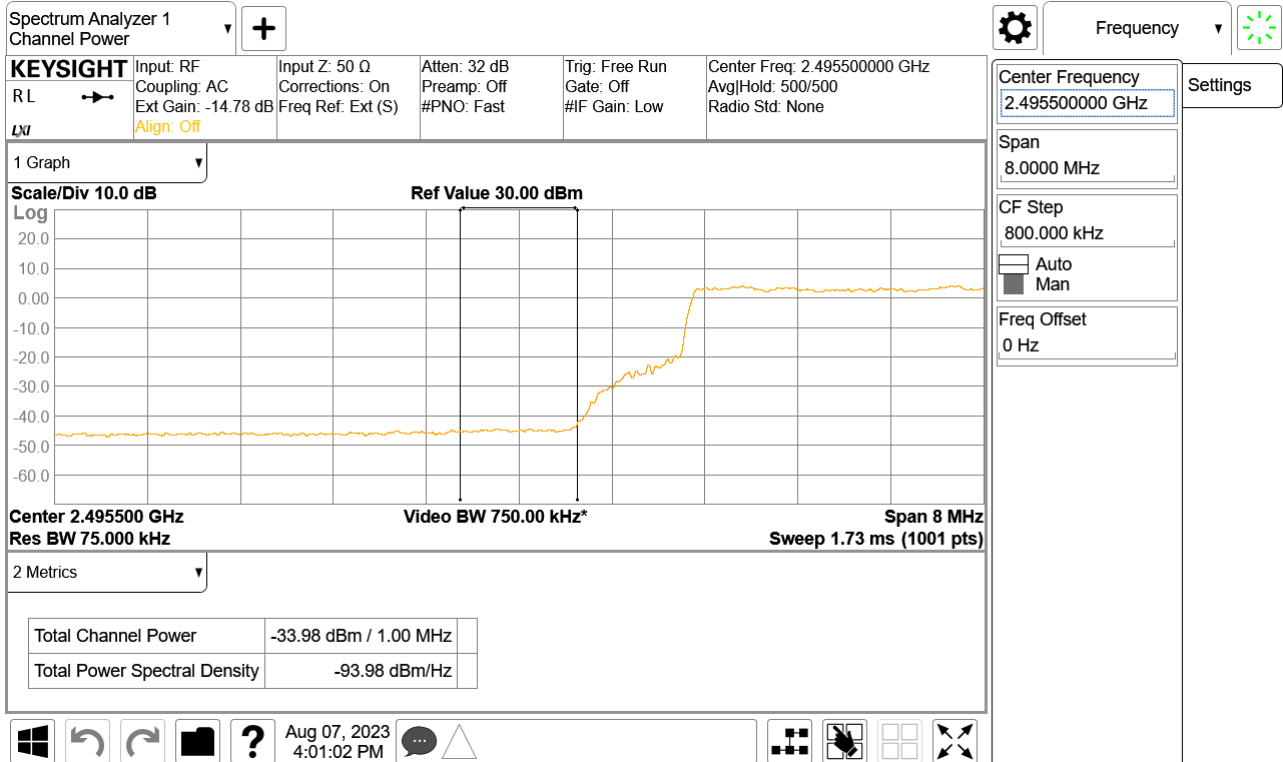




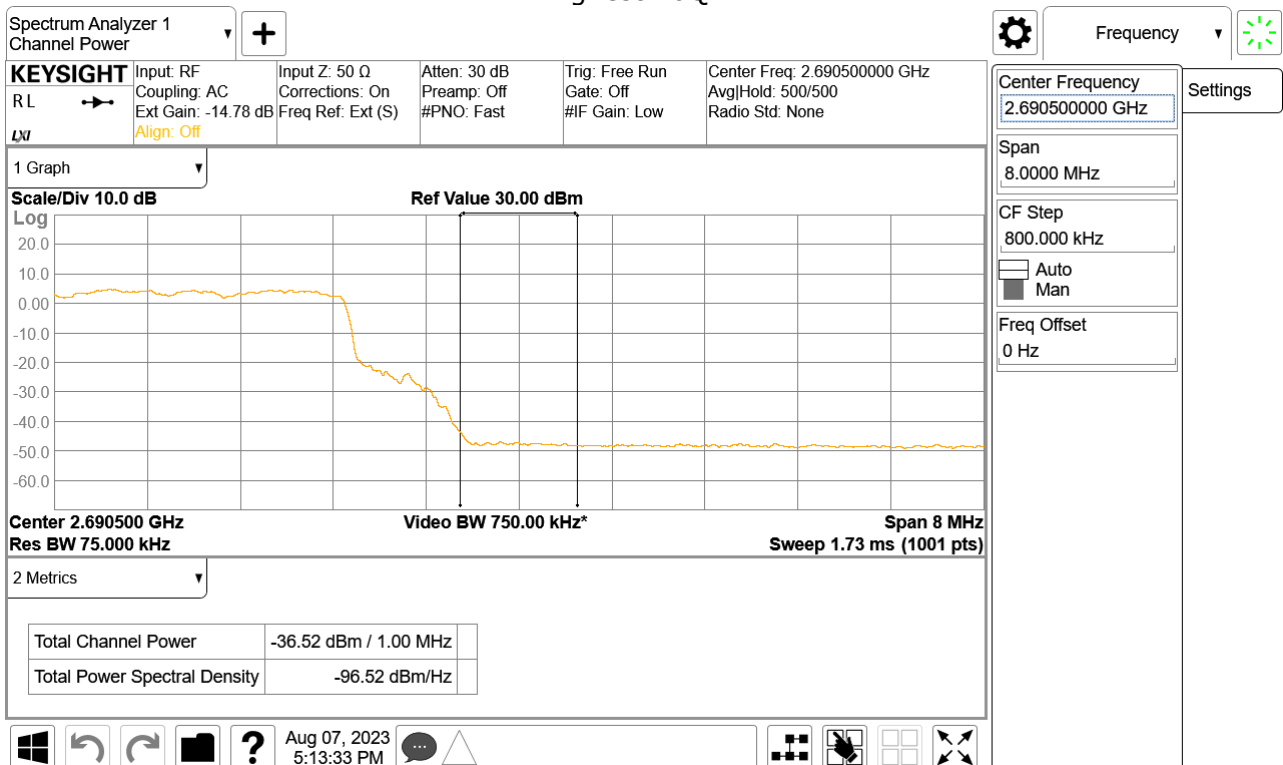
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Lowest 16QAM



Highest 16QAM

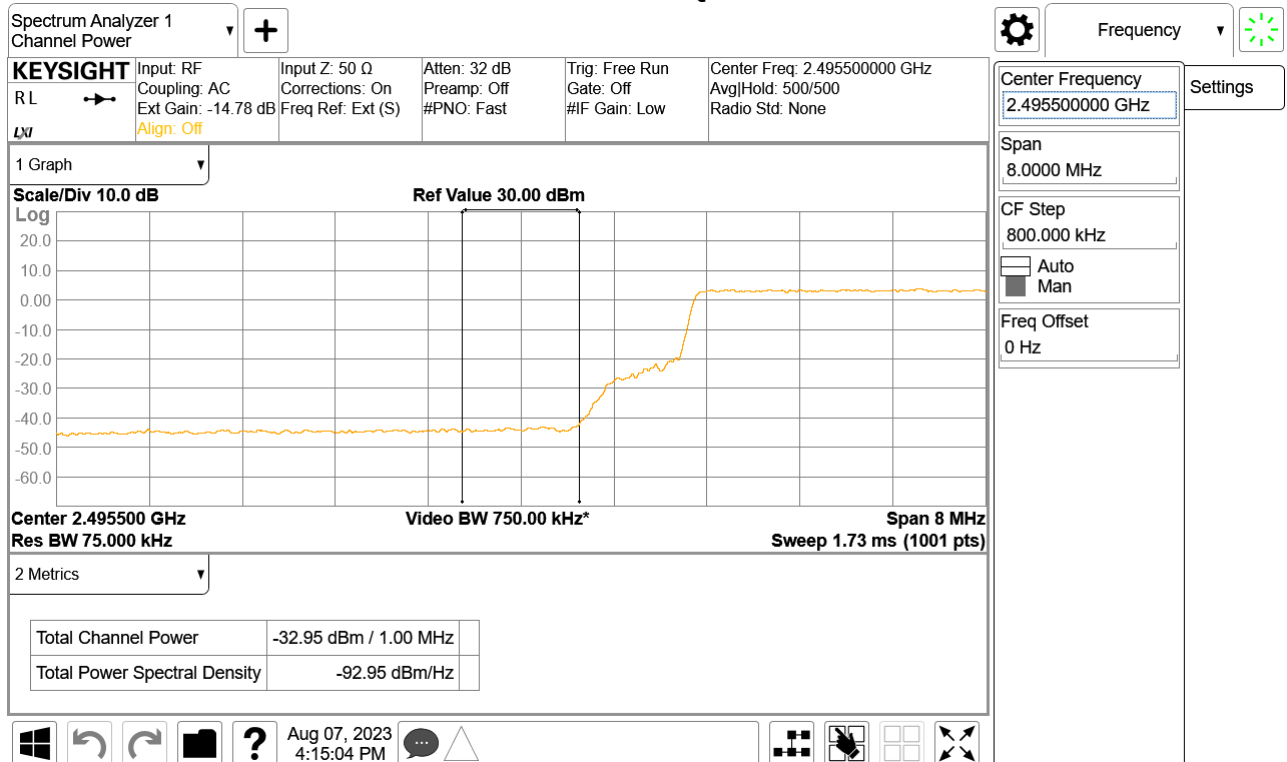




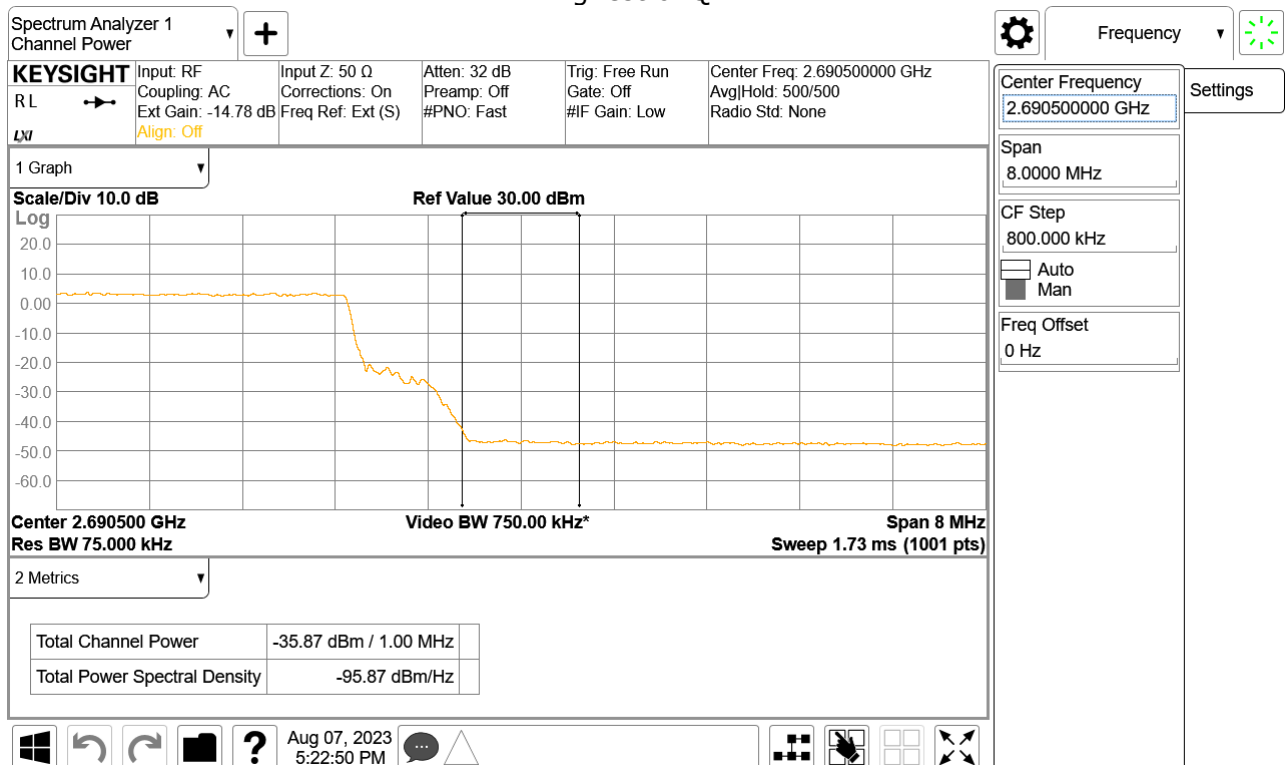
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Lowest 64QAM



Highest 64QAM

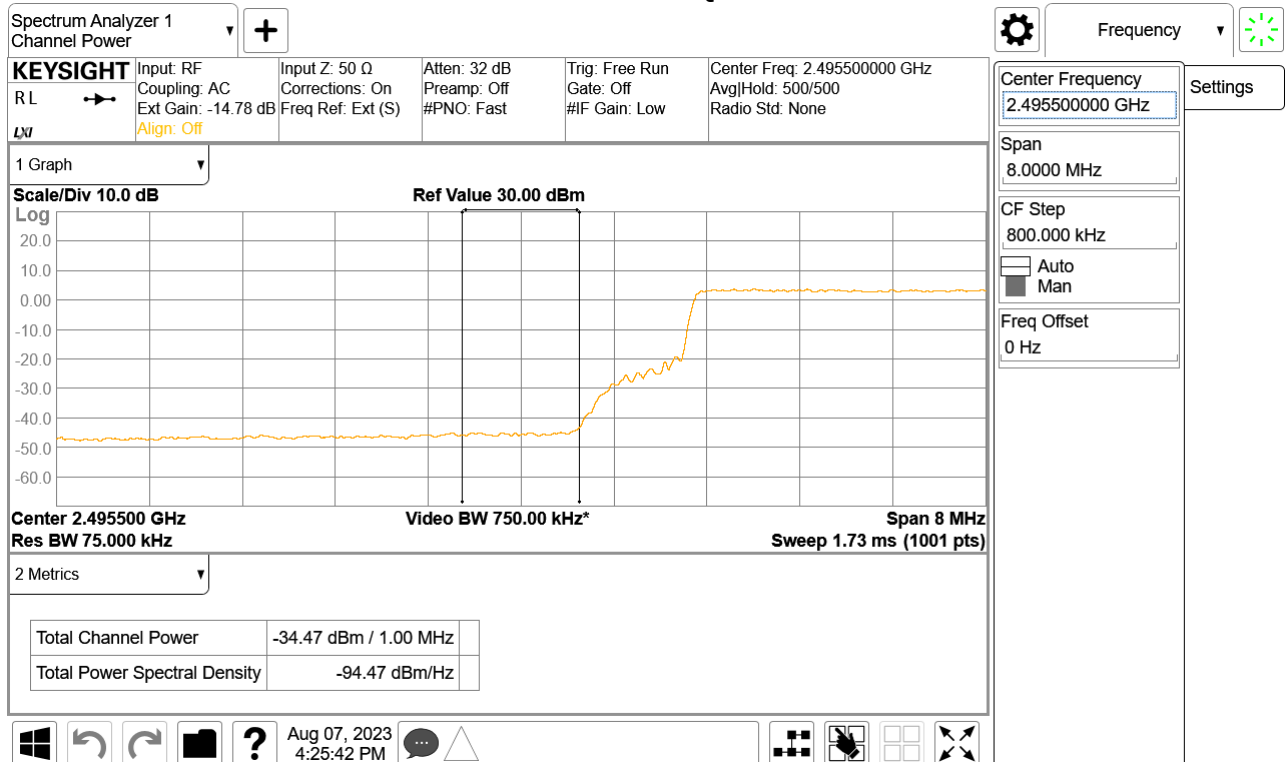




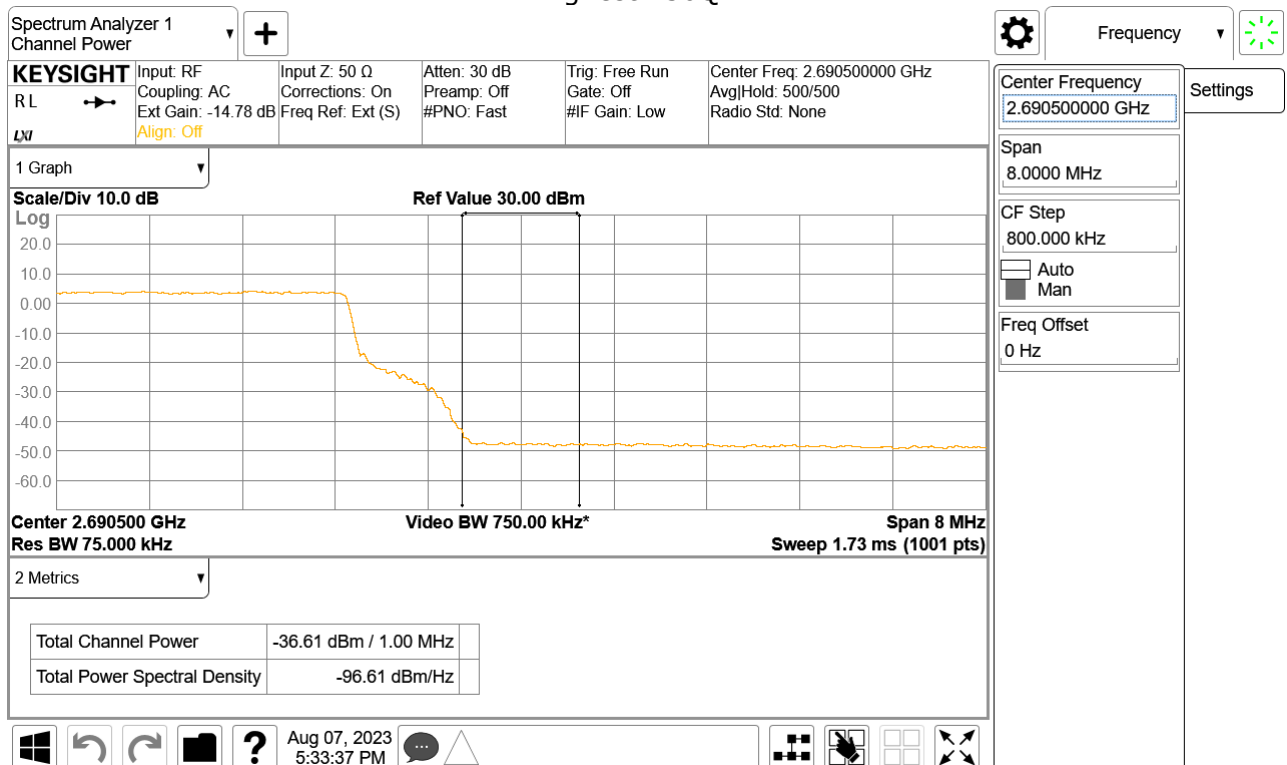
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Lowest 256QAM



Highest 256QAM



Test mode : 5G NR 1C 40 MHz

Channel	Port #	Measurement Range	Bandedge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Lowest	1	2 495 MHz to 2 496 MHz	-36.41	-34.57	-35.52	-34.62	-31.06
	2		-37.02	-35.02	-35.55	-33.98	
	3		-34.82	-34.53	-35.03	-33.06	
	4		-36.10	-34.37	-34.89	-33.08	
	5		-35.91	-34.45	-35.50	-32.74	
	6		-36.30	-34.47	-35.25	-33.45	
	7		-36.39	-35.13	-35.23	-33.74	
	8		-36.26	-34.44	-35.34	-34.11	
	9		-36.55	-34.57	-35.02	-33.92	
	10		-35.75	-34.71	-35.01	-34.14	
	11		-36.04	-34.59	-35.20	-33.21	
	12		-35.26	-34.55	-35.29	-33.43	
	13		-35.79	-35.08	-35.52	-33.88	
	14		-35.12	-35.09	-35.83	-34.07	
	15		-36.46	-34.99	-35.64	-32.86	
	16		-36.88	-35.26	-35.64	-34.09	
	17		-35.52	-33.99	-35.17	-33.47	
	18		-37.24	-35.14	-35.89	-33.95	
	19		-36.42	-34.31	-35.15	-33.21	
	20		-34.82	-33.46	-34.18	-32.43	
	21		-35.52	-34.09	-34.64	-32.87	
	22		-35.37	-34.38	-34.70	-33.60	
	23		-35.49	-34.29	-34.92	-33.77	
	24		-36.32	-34.74	-35.53	-34.24	
	25		-35.69	-35.22	-35.97	-34.26	
	26		-35.67	-34.99	-35.75	-34.01	
	27		-35.73	-35.27	-35.74	-34.47	
	28		-36.96	-35.55	-35.92	-34.22	
	29		-36.14	-34.88	-35.28	-33.55	
	30		-36.79	-35.53	-35.95	-33.74	
	31		-36.41	-35.35	-35.70	-34.15	
	32		-35.87	-34.94	-34.97	-33.28	
	33		-35.97	-36.44	-36.83	-34.97	
	34		-36.90	-36.96	-37.42	-35.13	
	35		-36.70	-36.76	-37.39	-35.44	
	36		-36.49	-35.91	-36.30	-35.20	
	37		-36.42	-36.07	-37.04	-35.04	
	38		-36.23	-35.53	-37.12	-34.82	
	39		-36.47	-36.02	-36.98	-34.91	
	40		-36.38	-35.81	-36.74	-35.07	
	41		-36.58	-36.93	-37.46	-36.49	
	42		-36.25	-36.27	-37.20	-35.47	
	43		-36.65	-36.41	-37.75	-35.57	
	44		-37.02	-36.18	-38.07	-35.65	
	45		-36.05	-36.59	-36.80	-35.14	
	46		-35.94	-35.81	-37.07	-35.42	
	47		-36.38	-36.46	-37.51	-35.08	
	48		-36.59	-36.86	-37.34	-35.42	
	49		-36.13	-36.48	-36.83	-35.22	
	50		-36.53	-36.25	-37.43	-35.93	
	51		-36.20	-35.97	-36.82	-35.28	
	52		-35.73	-35.51	-36.27	-33.85	
	53		-36.03	-35.36	-36.37	-34.79	
	54		-36.77	-36.73	-36.96	-35.31	
	55		-36.16	-35.76	-36.15	-34.59	
	56		-37.27	-37.04	-38.19	-36.55	
	57		-36.13	-36.80	-37.51	-35.54	
	58		-36.88	-36.84	-37.48	-35.73	
	59		-36.41	-36.76	-37.08	-35.61	
	60		-35.95	-36.49	-37.47	-35.24	
	61		-36.34	-36.48	-37.16	-35.11	
	62		-36.48	-36.16	-36.63	-35.13	
	63		-36.49	-36.25	-36.90	-35.13	
	64		-36.31	-36.12	-36.96	-34.59	

Channel	Port #	Measurement Range	Bandedge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Highest	1	2 690 MHz to 2 691 MHz	-32.89	-33.29	-32.85	-32.56	-31.06
	2		-33.56	-34.15	-34.11	-33.30	
	3		-32.69	-32.45	-32.35	-31.66	
	4		-33.86	-33.42	-34.17	-33.60	
	5		-32.59	-32.27	-33.00	-32.71	
	6		-34.49	-34.07	-33.67	-33.46	
	7		-32.21	-32.84	-32.87	-32.05	
	8		-33.26	-33.09	-33.54	-32.45	
	9		-32.55	-32.46	-32.27	-31.93	
	10		-34.14	-34.03	-33.81	-33.29	
	11		-32.01	-31.94	-31.87	-32.02	
	12		-33.46	-32.82	-32.76	-31.29	
	13		-33.31	-32.86	-33.15	-32.39	
	14		-33.43	-33.75	-33.31	-33.32	
	15		-32.31	-32.64	-32.59	-32.67	
	16		-34.14	-34.10	-33.42	-33.42	
	17		-32.55	-32.33	-32.43	-32.61	
	18		-34.75	-34.22	-34.32	-33.52	
	19		-33.43	-33.50	-33.20	-32.64	
	20		-34.67	-34.13	-34.26	-33.20	
	21		-31.73	-31.80	-31.90	-31.25	
	22		-33.90	-33.84	-33.59	-33.45	
	23		-32.36	-32.34	-32.83	-32.05	
	24		-33.10	-32.63	-33.15	-32.85	
	25		-34.19	-33.47	-33.30	-33.22	
	26		-35.15	-34.79	-34.82	-32.69	
	27		-32.98	-33.10	-32.91	-32.69	
	28		-33.36	-33.57	-33.66	-33.09	
	29		-32.87	-33.21	-33.05	-32.26	
	30		-34.27	-34.21	-34.38	-33.73	
	31		-33.04	-32.67	-33.20	-32.62	
	32		-34.99	-34.95	-35.17	-34.47	
	33		-34.73	-34.29	-34.56	-35.06	
	34		-34.55	-33.85	-34.71	-34.31	
	35		-34.46	-34.44	-34.10	-34.45	
	36		-33.54	-33.90	-34.11	-33.63	
	37		-34.99	-35.08	-34.96	-35.56	
	38		-33.15	-32.97	-33.42	-32.65	
	39		-34.49	-34.49	-35.10	-34.82	
	40		-33.45	-33.56	-33.81	-33.16	
	41		-35.51	-35.58	-35.98	-35.54	
	42		-33.90	-34.11	-34.27	-33.89	
	43		-34.95	-34.54	-35.06	-35.09	
	44		-34.81	-35.22	-35.36	-34.90	
	45		-34.37	-34.36	-34.74	-34.99	
	46		-33.63	-33.79	-33.83	-33.42	
	47		-34.84	-34.38	-34.40	-34.45	
	48		-34.98	-34.30	-34.43	-34.10	
	49		-34.46	-34.61	-34.61	-34.98	
	50		-35.25	-35.21	-35.06	-35.10	
	51		-33.99	-33.64	-34.26	-33.11	
	52		-35.41	-35.47	-35.69	-35.05	
	53		-35.29	-34.94	-35.42	-34.67	
	54		-34.63	-34.33	-34.62	-33.83	
	55		-33.91	-33.44	-33.42	-33.72	
	56		-35.97	-35.76	-35.55	-34.84	
	57		-34.90	-34.71	-34.61	-34.41	
	58		-35.10	-34.97	-35.19	-34.41	
	59		-35.33	-34.98	-35.93	-35.51	
	60		-34.90	-34.56	-34.60	-34.21	
	61		-35.71	-34.57	-35.17	-35.11	
	62		-35.30	-35.79	-35.45	-34.63	
	63		-34.84	-34.05	-34.62	-34.44	
	64		-33.89	-34.17	-33.97	-33.68	

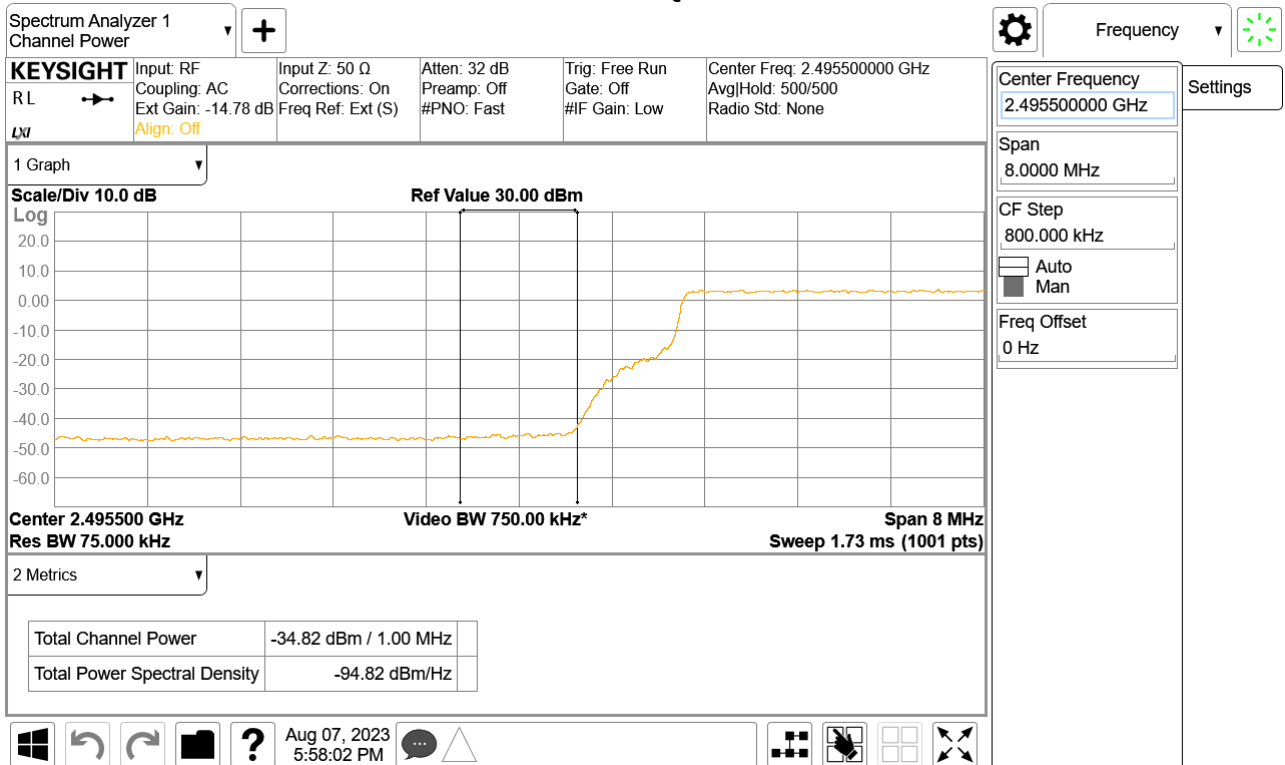
See next pages for actual measured spectrum plots.



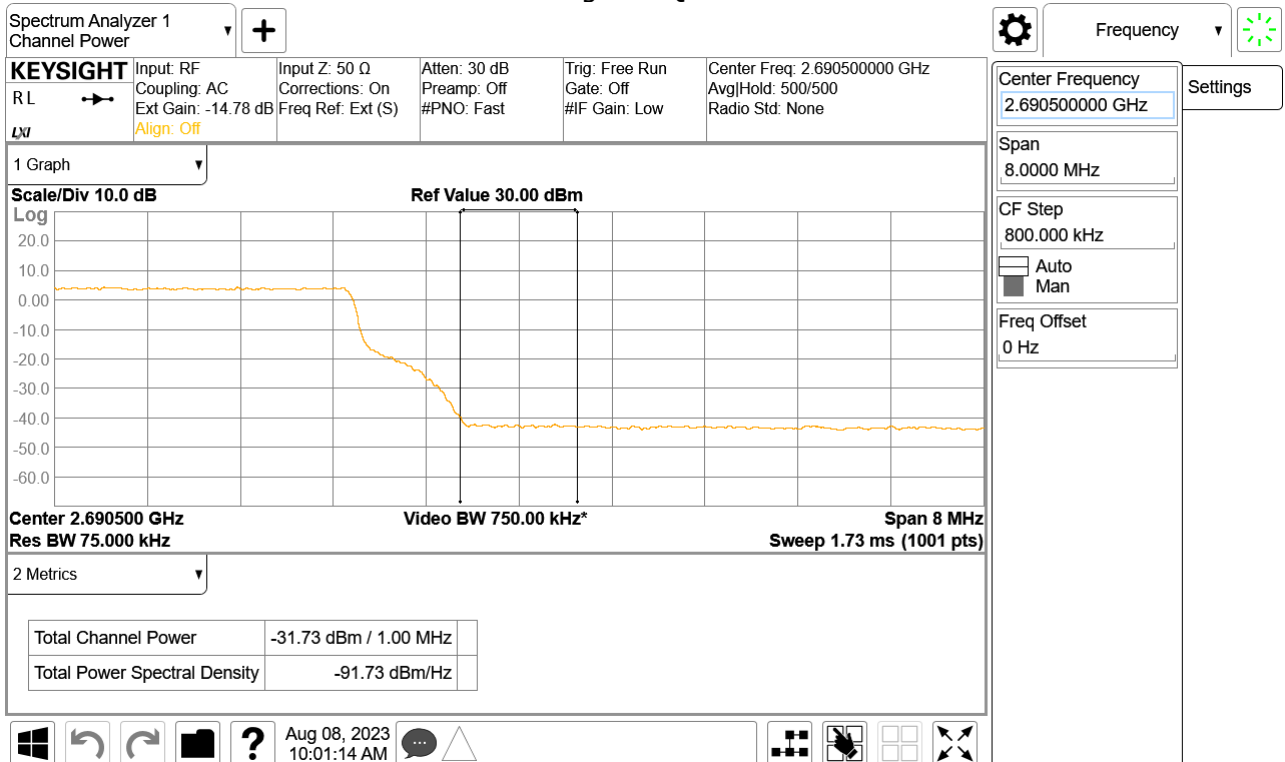
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Lowest QPSK



Highest QPSK

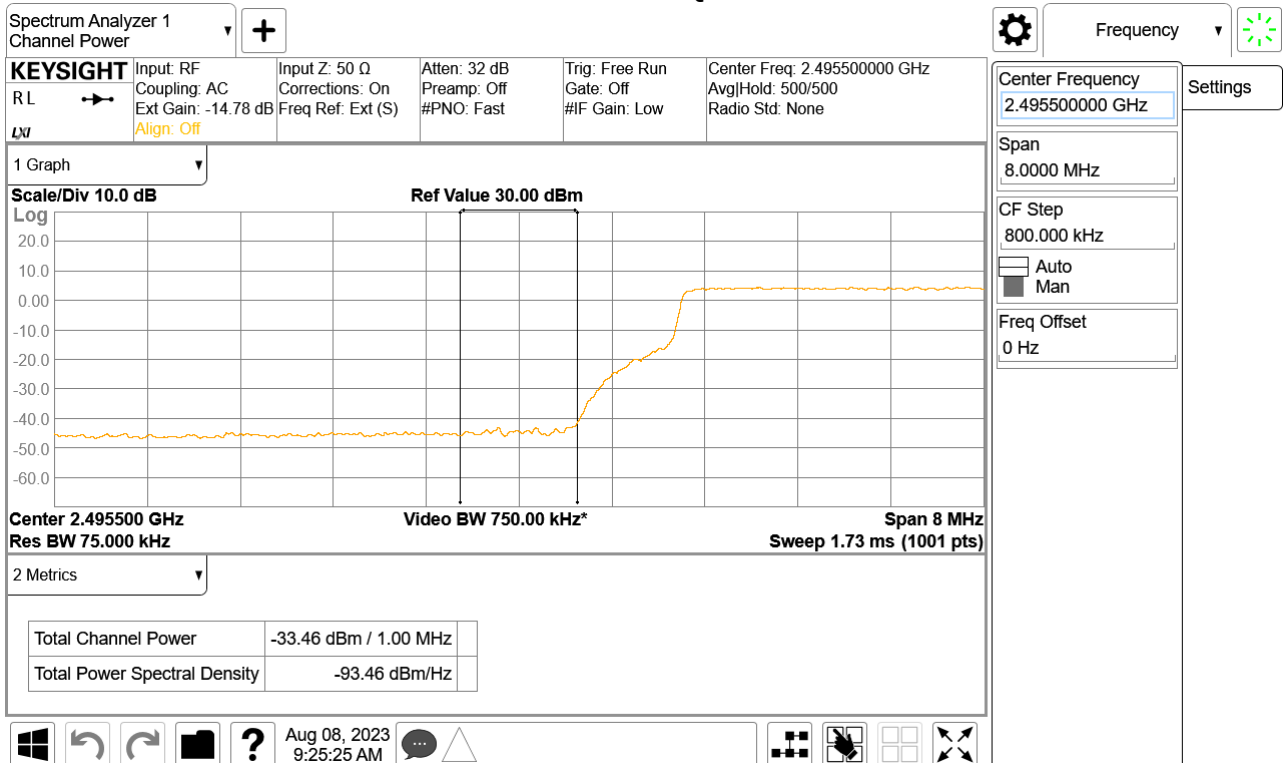




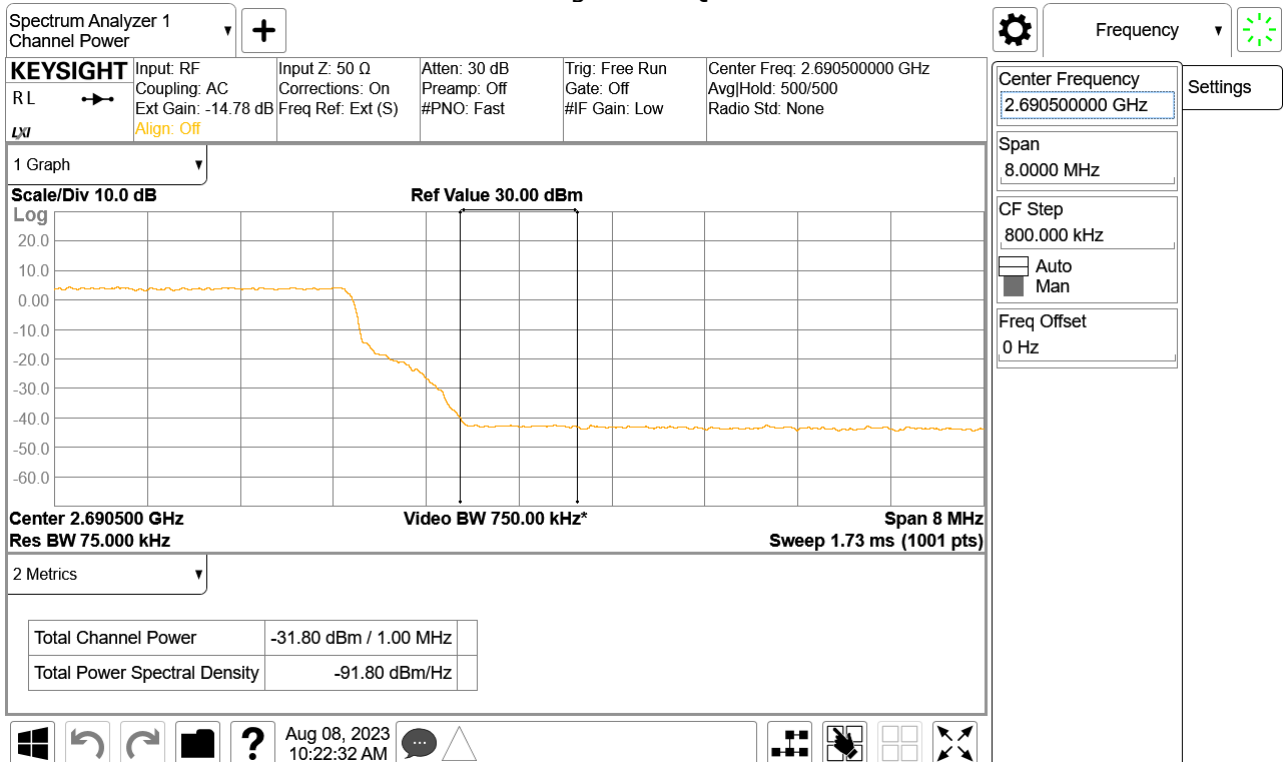
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Lowest 16QAM



Highest 16QAM

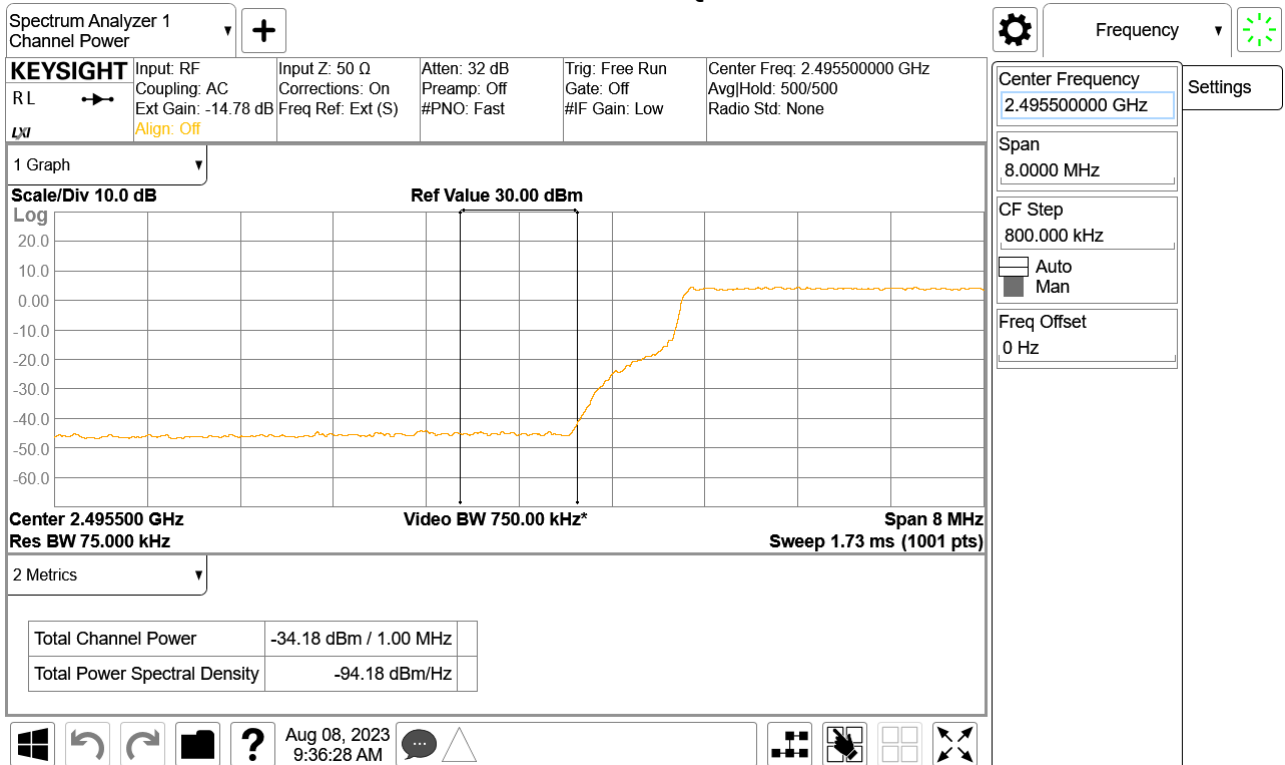




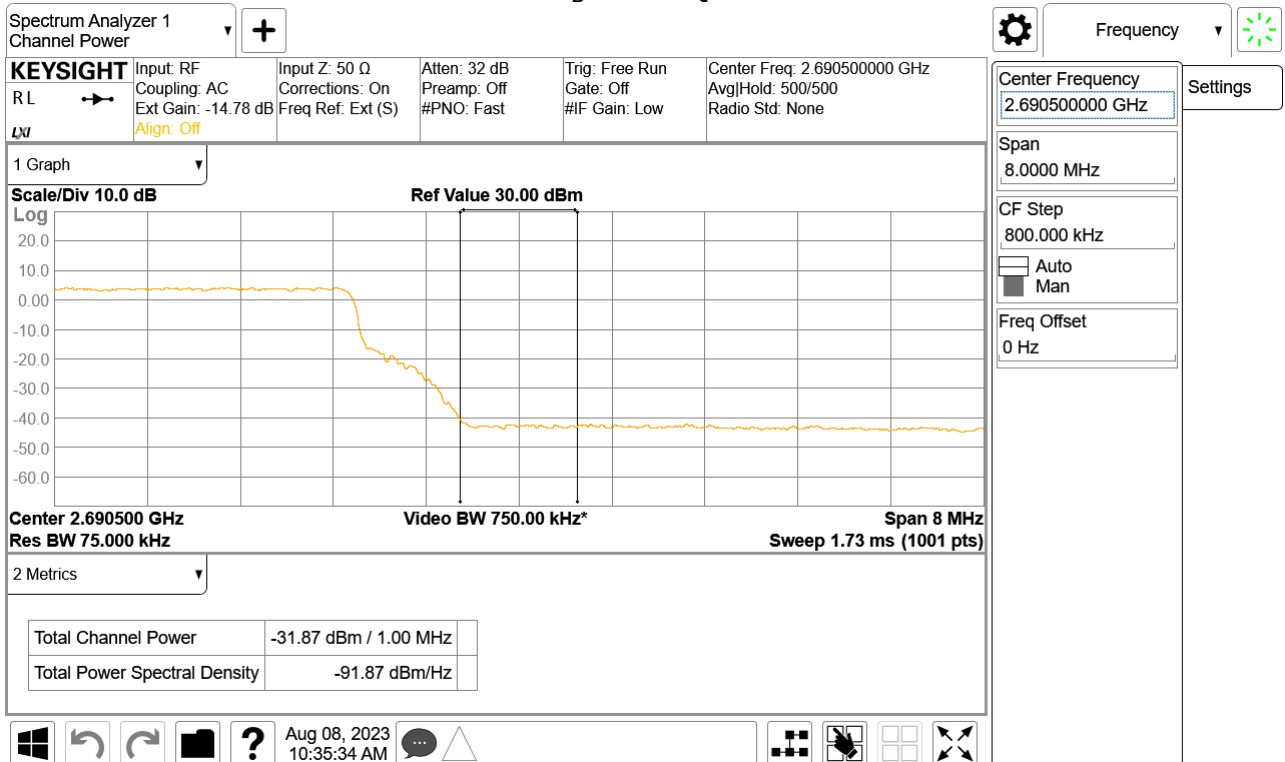
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Lowest 64QAM



Highest 64QAM

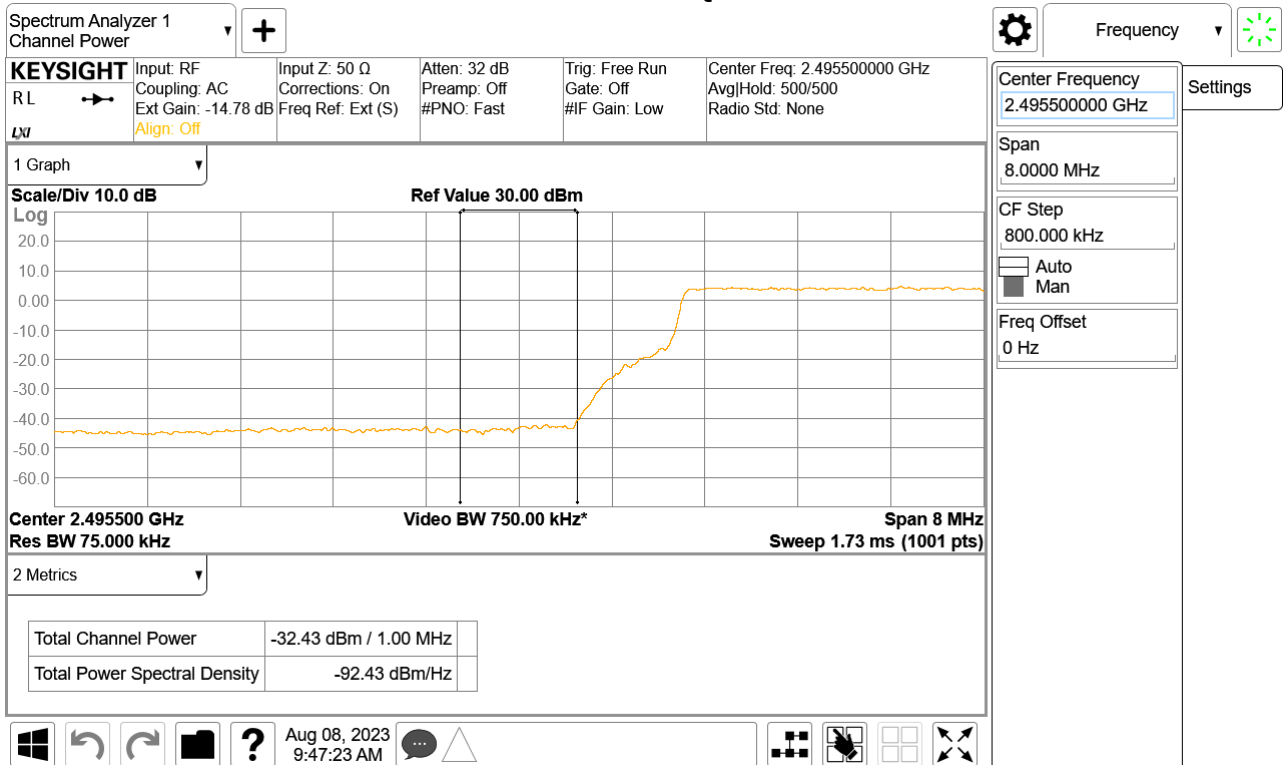




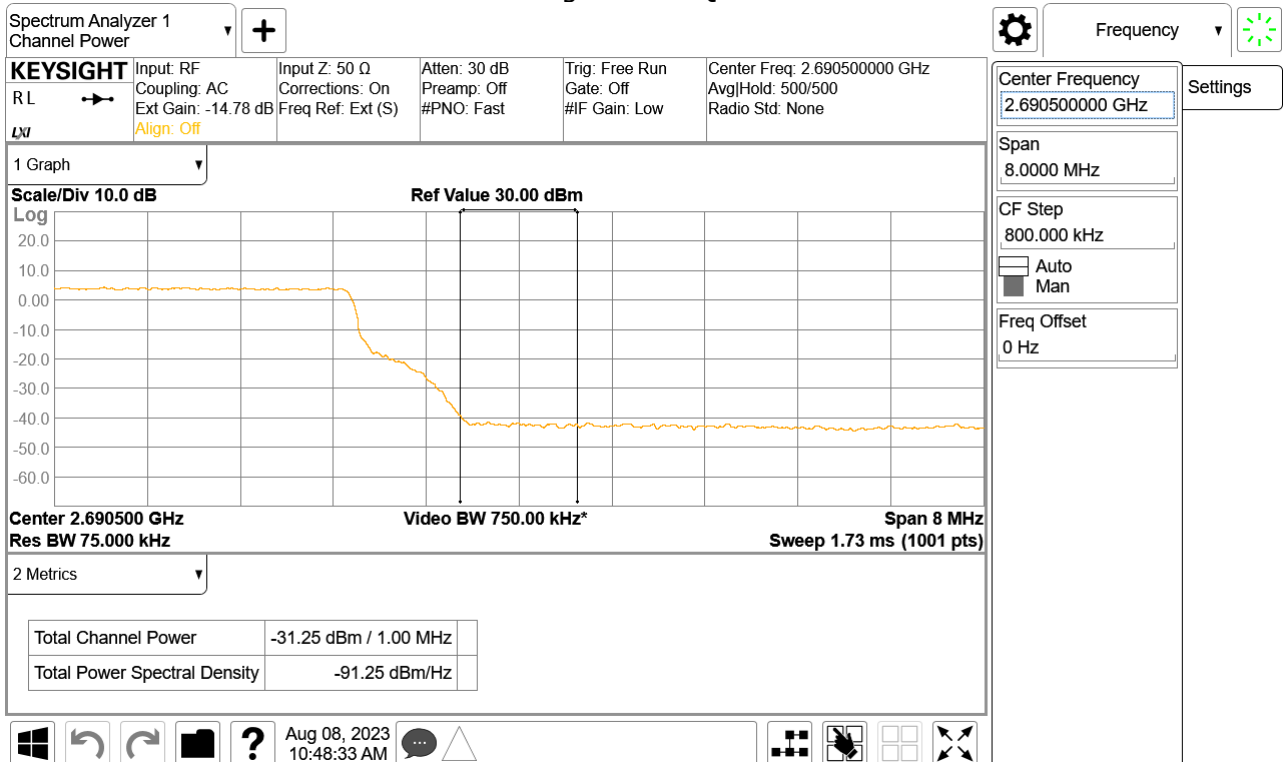
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Lowest 256QAM



Highest 256QAM



Test mode : 5G NR 1C 50 MHz

Channel	Port #	Measurement Range	Bandedge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Lowest	1	2 495 MHz to 2 496 MHz	-36.32	-36.22	-35.54	-35.15	-31.06
	2		-35.67	-36.71	-35.97	-35.52	
	3		-35.96	-36.03	-34.49	-35.32	
	4		-35.35	-35.18	-34.26	-34.67	
	5		-35.52	-35.59	-35.06	-35.10	
	6		-35.51	-36.03	-35.13	-34.20	
	7		-35.98	-36.18	-33.48	-35.68	
	8		-36.27	-36.46	-35.24	-35.80	
	9		-35.68	-36.03	-34.21	-34.64	
	10		-35.79	-36.04	-35.65	-34.65	
	11		-35.36	-35.69	-34.38	-34.78	
	12		-35.58	-35.94	-35.25	-34.64	
	13		-35.92	-35.70	-35.23	-35.39	
	14		-35.92	-36.24	-35.32	-34.68	
	15		-35.39	-35.86	-34.94	-34.98	
	16		-36.16	-36.22	-35.79	-35.00	
	17		-35.77	-35.17	-34.60	-34.86	
	18		-36.13	-35.61	-36.10	-36.27	
	19		-35.07	-35.13	-34.36	-34.83	
	20		-34.53	-34.67	-34.25	-33.92	
	21		-34.52	-35.21	-33.11	-34.25	
	22		-35.13	-35.64	-34.95	-35.03	
	23		-36.06	-35.53	-34.21	-35.35	
	24		-35.50	-35.69	-35.52	-35.59	
	25		-36.21	-36.01	-35.72	-35.78	
	26		-36.20	-36.61	-35.92	-35.97	
	27		-36.67	-36.20	-34.68	-35.10	
	28		-35.97	-36.08	-35.93	-35.99	
	29		-36.25	-35.85	-35.61	-35.39	
	30		-35.81	-36.75	-35.67	-35.06	
	31		-36.59	-36.35	-35.18	-35.93	
	32		-35.12	-35.47	-34.87	-34.99	
	33		-37.52	-37.43	-35.76	-36.44	
	34		-37.95	-38.14	-37.04	-36.67	
	35		-37.68	-37.81	-36.56	-37.02	
	36		-36.27	-36.81	-35.41	-36.35	
	37		-36.86	-37.12	-35.73	-36.47	
	38		-37.09	-38.19	-37.12	-37.12	
	39		-36.87	-37.31	-36.46	-36.46	
	40		-37.34	-38.23	-37.02	-37.27	
	41		-38.14	-38.01	-35.95	-37.47	
	42		-36.43	-37.34	-36.08	-35.96	
	43		-37.82	-37.67	-36.99	-36.42	
	44		-37.95	-37.95	-37.20	-37.95	
	45		-37.04	-37.11	-36.20	-36.67	
	46		-37.35	-38.40	-37.41	-37.13	
	47		-38.42	-37.98	-36.09	-36.22	
	48		-37.50	-38.58	-37.52	-37.23	
	49		-37.44	-36.71	-35.90	-37.21	
	50		-38.45	-37.64	-36.68	-36.87	
	51		-36.94	-36.81	-35.44	-36.35	
	52		-36.86	-37.17	-35.55	-35.90	
	53		-37.22	-36.71	-36.55	-35.93	
	54		-37.80	-37.27	-36.41	-37.04	
	55		-36.53	-36.43	-35.65	-36.17	
	56		-38.54	-39.25	-38.07	-37.62	
	57		-37.66	-38.30	-36.90	-36.88	
	58		-38.51	-38.23	-37.47	-37.47	
	59		-37.46	-38.05	-36.75	-37.41	
	60		-37.74	-37.80	-36.76	-36.66	
	61		-38.19	-37.08	-35.92	-36.67	
	62		-37.33	-38.42	-37.22	-37.50	
	63		-37.06	-37.08	-36.32	-36.45	
	64		-36.84	-36.81	-35.55	-35.81	

Channel	Port #	Measurement Range	Bandedge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Highest	1	2 690 MHz to 2 691 MHz	-31.64	-32.42	-32.20	-32.62	-31.06
	2		-34.48	-34.22	-34.24	-34.02	
	3		-32.00	-31.61	-31.89	-32.19	
	4		-34.32	-33.70	-33.49	-33.34	
	5		-32.96	-32.18	-32.51	-33.04	
	6		-33.49	-33.65	-33.25	-33.68	
	7		-32.47	-32.26	-32.38	-31.74	
	8		-33.49	-33.22	-33.06	-31.58	
	9		-31.62	-31.54	-31.36	-31.49	
	10		-34.01	-33.92	-32.37	-33.79	
	11		-31.34	-31.52	-31.30	-31.28	
	12		-33.11	-33.40	-32.82	-32.50	
	13		-32.21	-32.74	-32.41	-31.62	
	14		-33.52	-34.00	-33.50	-33.38	
	15		-31.92	-32.08	-32.16	-31.88	
	16		-33.87	-33.74	-33.39	-33.34	
	17		-31.76	-32.13	-32.24	-32.29	
	18		-34.65	-35.20	-34.44	-34.72	
	19		-33.03	-32.37	-32.33	-33.43	
	20		-34.48	-34.68	-34.03	-33.87	
	21		-31.69	-31.80	-31.34	-31.52	
	22		-34.04	-34.14	-33.47	-33.70	
	23		-32.48	-31.98	-31.88	-31.50	
	24		-33.42	-32.94	-32.74	-32.62	
	25		-32.88	-33.22	-32.81	-33.48	
	26		-34.84	-34.27	-33.46	-34.91	
	27		-33.13	-32.40	-32.84	-32.31	
	28		-33.58	-33.41	-32.58	-33.27	
	29		-32.98	-32.86	-32.70	-31.86	
	30		-34.82	-34.32	-33.95	-33.81	
	31		-31.76	-32.48	-32.53	-32.39	
	32		-35.32	-35.26	-34.68	-32.26	
	33		-34.19	-33.88	-33.07	-33.89	
	34		-33.62	-34.41	-33.09	-33.69	
	35		-32.57	-33.96	-32.52	-33.47	
	36		-33.69	-33.00	-33.40	-32.92	
	37		-34.92	-33.89	-32.91	-34.23	
	38		-32.67	-33.01	-32.90	-32.39	
	39		-33.43	-33.17	-32.75	-33.55	
	40		-32.99	-33.08	-32.99	-32.31	
	41		-35.13	-34.97	-34.17	-34.52	
	42		-33.70	-33.44	-33.19	-32.78	
	43		-34.59	-34.31	-34.47	-34.52	
	44		-35.02	-34.80	-34.21	-34.40	
	45		-34.93	-32.99	-33.36	-33.59	
	46		-33.06	-33.46	-33.23	-32.60	
	47		-33.59	-33.85	-33.30	-33.14	
	48		-34.36	-34.22	-33.70	-34.05	
	49		-34.74	-34.22	-33.36	-33.60	
	50		-34.72	-34.61	-34.27	-33.53	
	51		-33.63	-33.28	-33.28	-32.81	
	52		-35.76	-35.14	-34.35	-34.95	
	53		-34.99	-34.19	-33.76	-34.23	
	54		-34.98	-34.46	-34.17	-33.82	
	55		-33.65	-33.09	-32.86	-33.00	
	56		-35.38	-34.73	-34.92	-35.39	
	57		-33.80	-33.80	-34.20	-33.07	
	58		-34.38	-34.46	-34.22	-34.13	
	59		-35.12	-34.62	-34.17	-34.53	
	60		-34.56	-33.99	-34.13	-33.70	
	61		-35.40	-34.03	-34.49	-34.03	
	62		-34.38	-34.86	-34.63	-34.56	
	63		-33.93	-33.81	-33.23	-33.83	
	64		-33.58	-33.32	-33.31	-33.13	

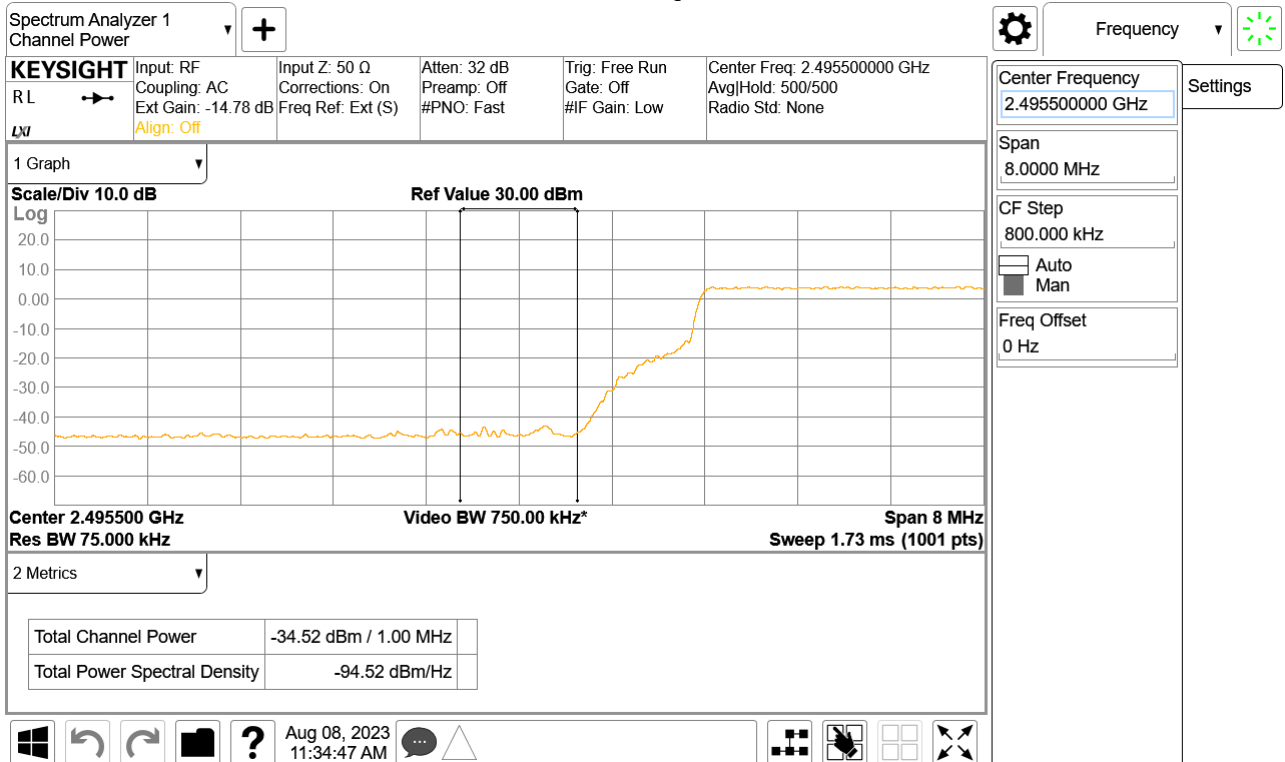
See next pages for actual measured spectrum plots.



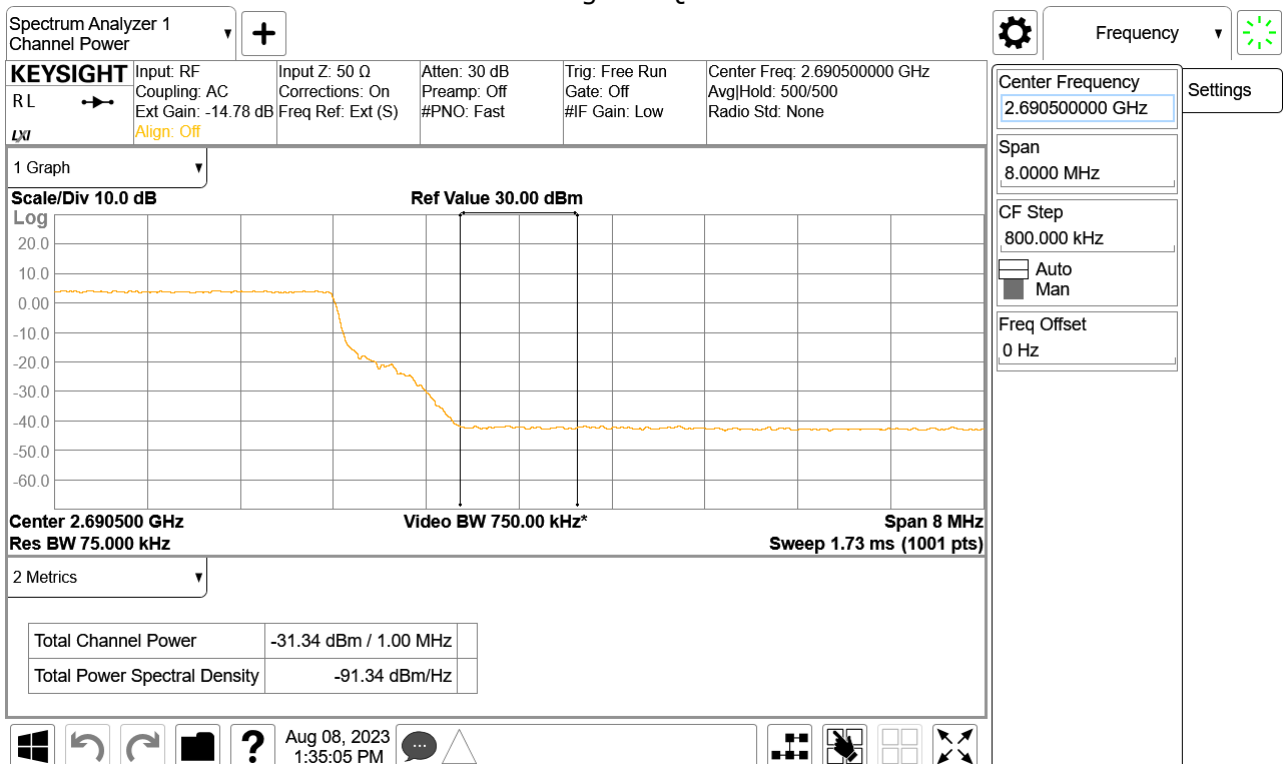
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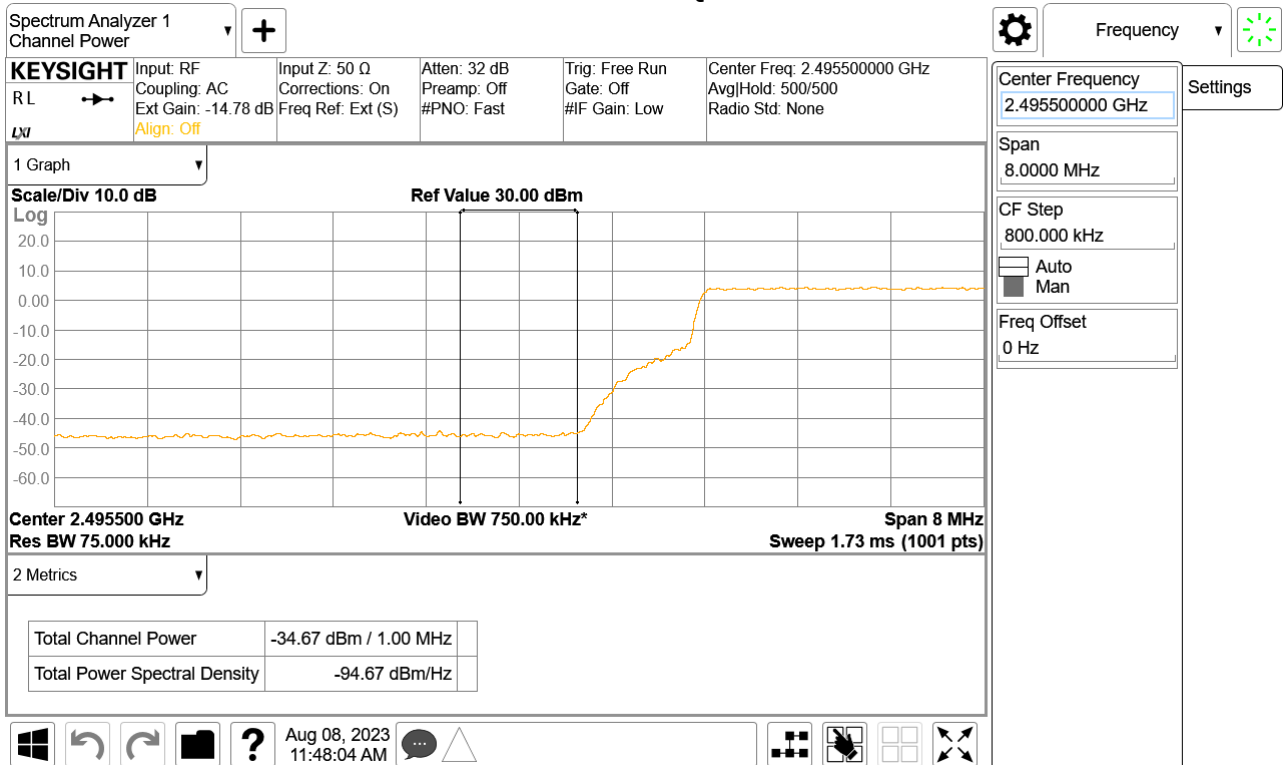
Lowest QPSK



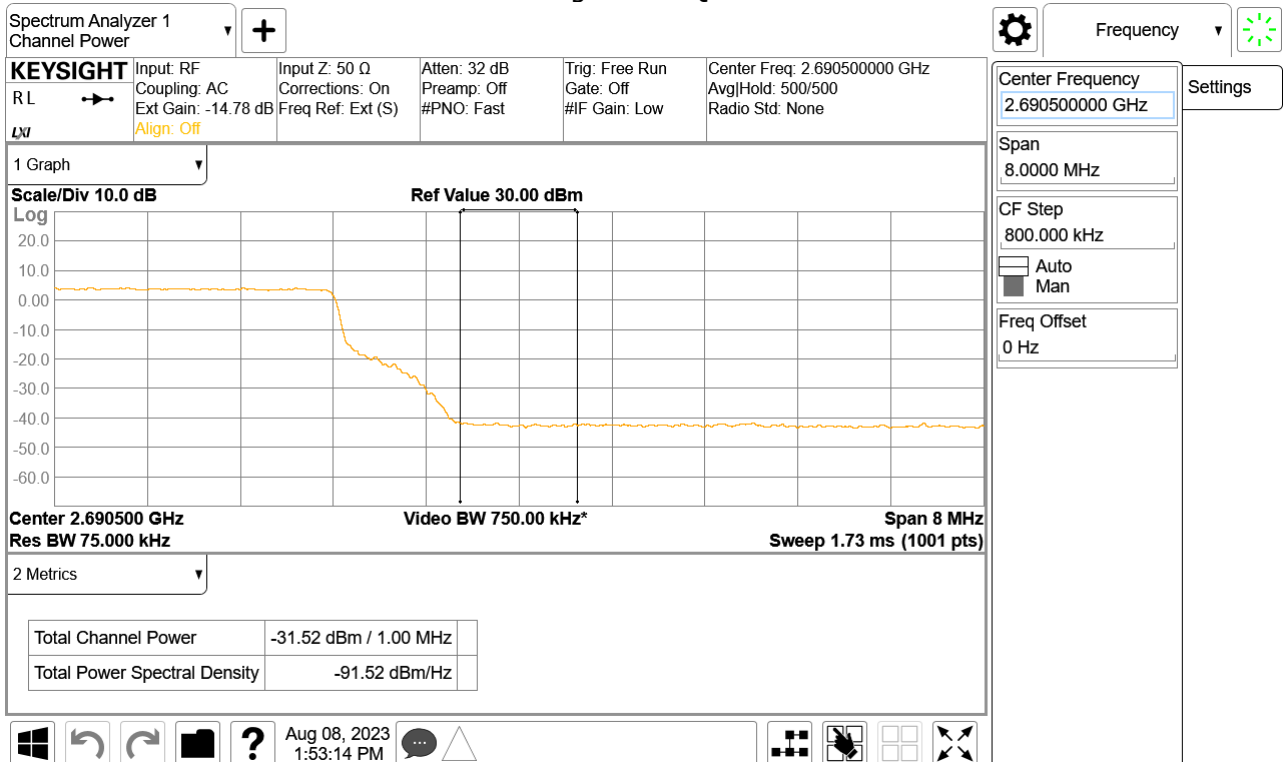
Highest QPSK



Lowest 16QAM



Highest 16QAM

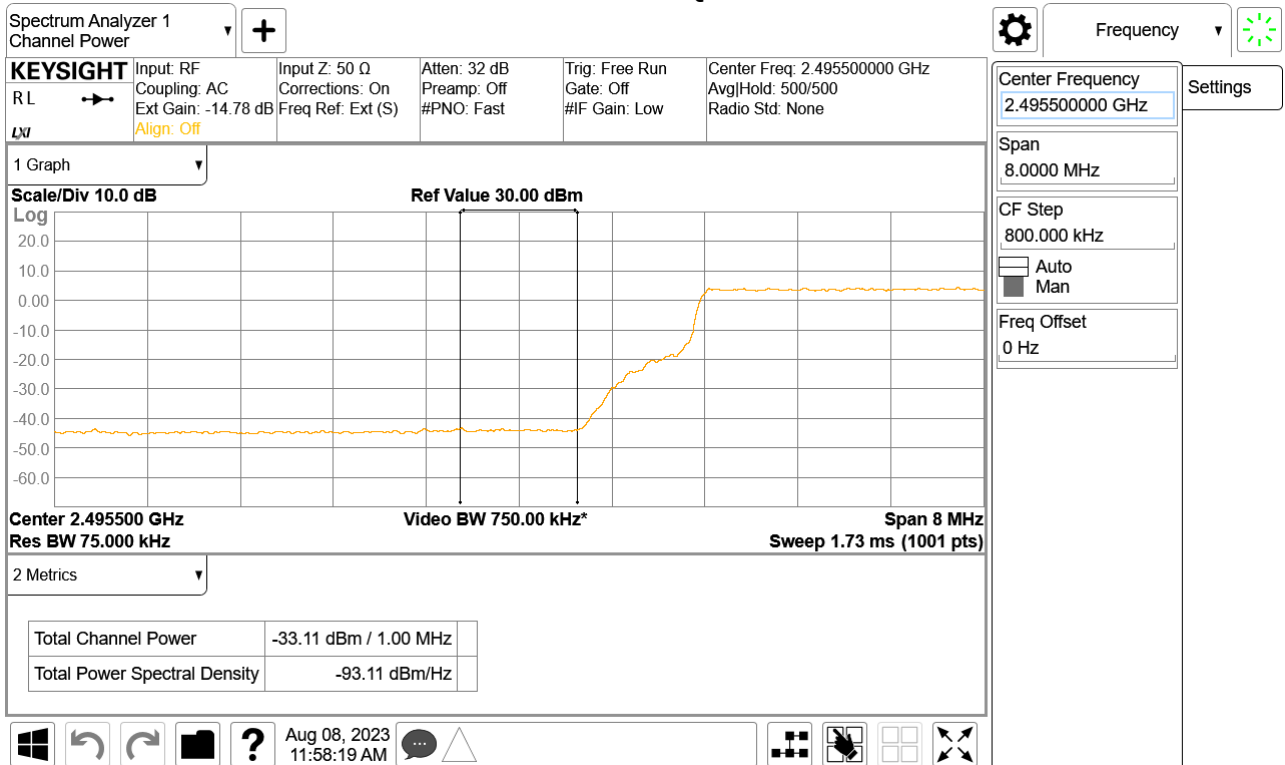




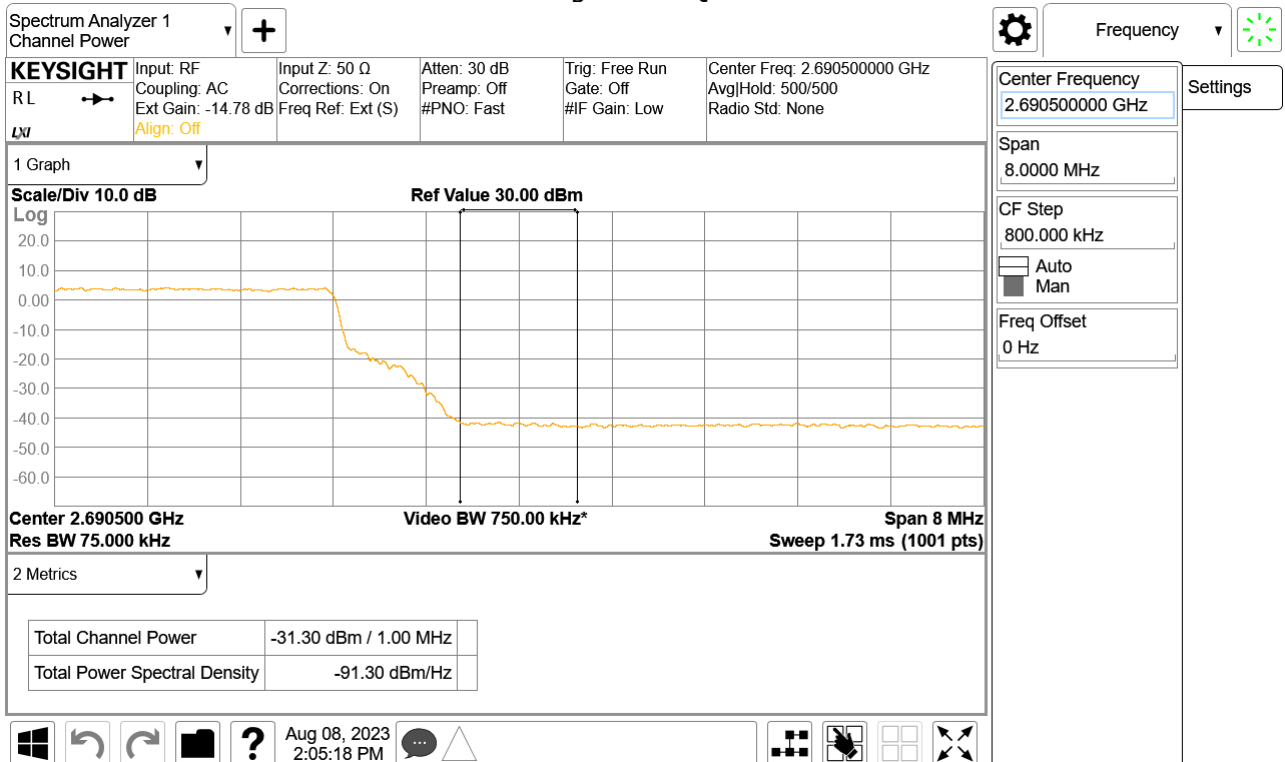
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Lowest 64QAM



Highest 64QAM

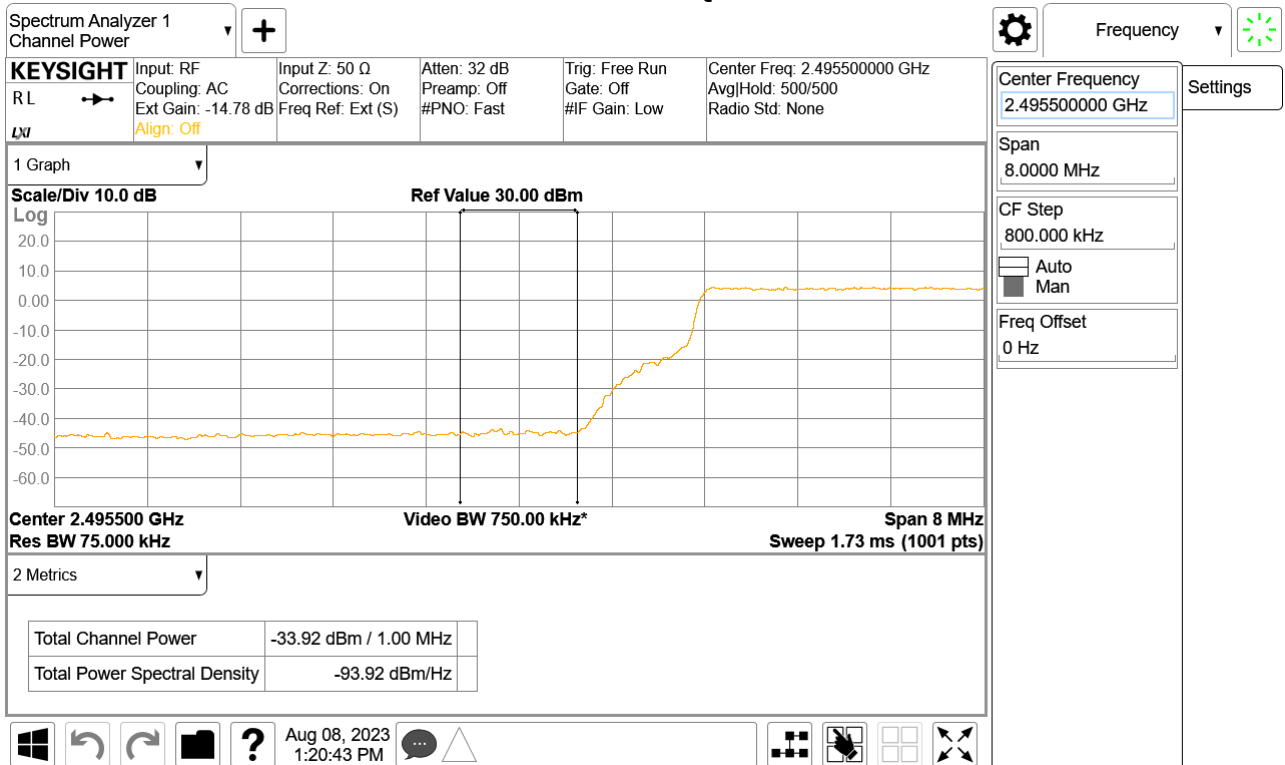




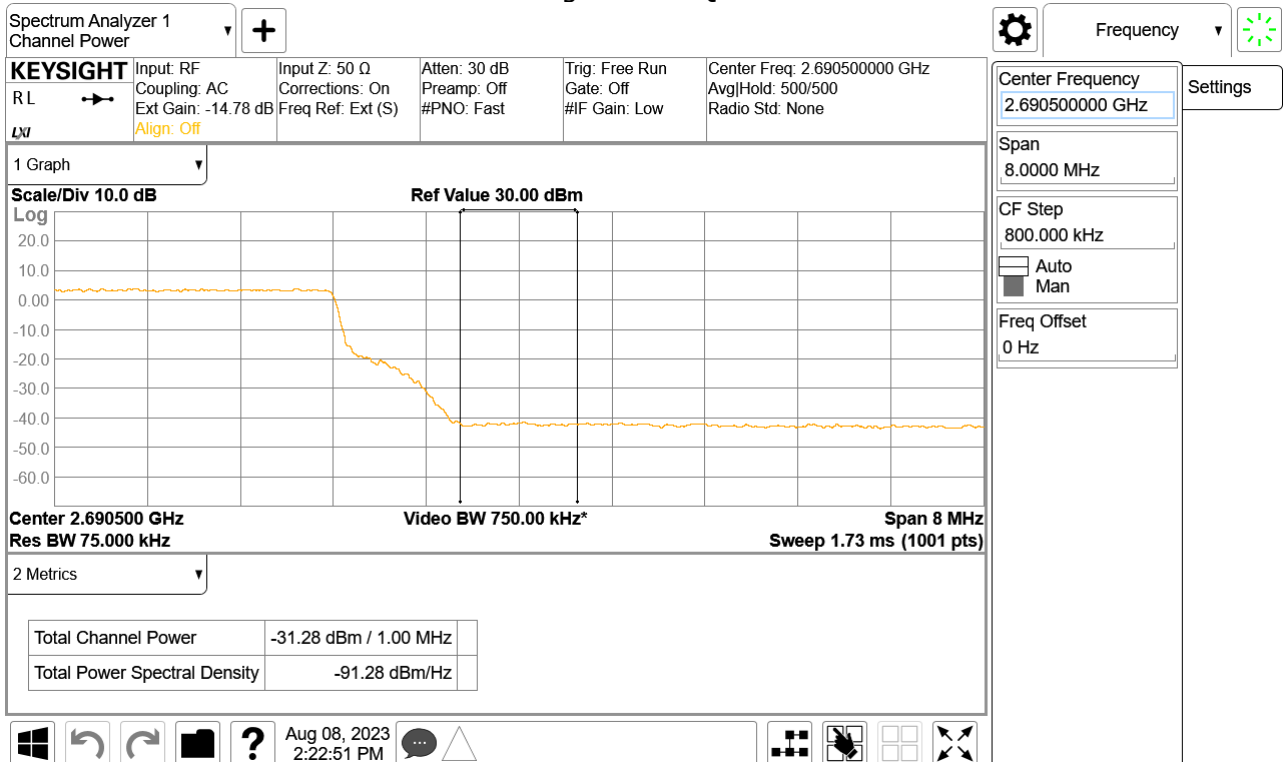
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Lowest 256QAM



Highest 256QAM



Test mode : LTE 2C 20+20 MHz Contiguous

Channel	Port #	Measurement Range	Bandedge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Lowest	1	2 495 MHz to 2 496 MHz	-36.55	-36.41	-35.10	-36.48	-31.06
	2		-36.42	-36.62	-34.74	-36.47	
	3		-35.90	-35.84	-34.59	-35.81	
	4		-35.66	-35.85	-35.00	-35.74	
	5		-35.77	-35.99	-34.98	-35.60	
	6		-36.00	-35.65	-35.49	-35.78	
	7		-35.70	-35.92	-35.37	-36.20	
	8		-36.47	-35.93	-35.53	-36.06	
	9		-36.75	-35.88	-37.04	-36.11	
	10		-36.53	-35.96	-37.05	-36.05	
	11		-36.57	-35.59	-37.06	-36.12	
	12		-36.70	-35.78	-37.08	-36.61	
	13		-36.59	-36.05	-36.92	-36.48	
	14		-36.86	-36.47	-36.73	-36.68	
	15		-36.95	-36.49	-37.02	-36.51	
	16		-37.32	-36.44	-37.30	-36.77	
	17		-36.20	-35.89	-36.54	-36.16	
	18		-37.32	-37.00	-37.49	-37.54	
	19		-36.11	-36.47	-36.82	-36.55	
	20		-35.43	-35.37	-35.19	-34.99	
	21		-36.09	-36.08	-36.69	-36.16	
	22		-35.94	-36.25	-36.36	-35.67	
	23		-37.00	-36.79	-36.22	-36.33	
	24		-36.73	-36.50	-37.09	-36.28	
	25		-36.08	-35.71	-36.05	-35.83	
	26		-35.91	-36.03	-36.09	-36.15	
	27		-36.25	-36.21	-36.08	-36.35	
	28		-36.44	-36.60	-36.28	-36.37	
	29		-36.40	-35.60	-35.86	-36.01	
	30		-36.07	-35.94	-35.51	-36.19	
	31		-36.45	-36.44	-36.29	-36.51	
	32		-35.62	-35.93	-35.52	-35.56	
	33		-36.67	-36.43	-36.44	-35.92	
	34		-36.81	-36.86	-36.84	-36.35	
	35		-37.53	-36.52	-37.27	-36.44	
	36		-35.89	-35.93	-36.38	-35.91	
	37		-36.95	-36.22	-36.70	-36.41	
	38		-36.39	-35.92	-37.03	-36.59	
	39		-36.88	-36.71	-36.73	-36.05	
	40		-36.95	-37.14	-37.11	-37.11	
	41		-37.23	-37.39	-37.69	-36.85	
	42		-36.90	-37.04	-37.29	-36.89	
	43		-36.92	-36.82	-37.85	-36.94	
	44		-37.20	-37.09	-37.69	-36.97	
	45		-37.13	-36.87	-37.26	-36.81	
	46		-37.35	-37.20	-37.39	-36.82	
	47		-37.10	-37.00	-36.87	-36.61	
	48		-36.92	-36.97	-37.68	-37.04	
	49		-36.45	-37.11	-36.87	-36.47	
	50		-36.98	-37.48	-37.50	-36.69	
	51		-36.80	-36.58	-36.62	-36.11	
	52		-36.02	-36.36	-36.54	-35.97	
	53		-36.21	-36.22	-36.61	-36.04	
	54		-37.21	-37.18	-37.05	-36.87	
	55		-36.35	-36.62	-36.45	-36.35	
	56		-37.45	-37.30	-38.05	-37.34	
	57		-37.34	-37.00	-37.11	-36.90	
	58		-37.29	-36.40	-37.60	-36.79	
	59		-37.32	-36.84	-37.51	-36.89	
	60		-37.29	-36.86	-37.23	-36.91	
	61		-37.09	-36.81	-36.62	-36.52	
	62		-36.68	-35.96	-37.36	-36.80	
	63		-37.00	-36.17	-36.84	-36.61	
	64		-36.94	-36.25	-36.81	-36.69	

Channel	Port #	Measurement Range	Bandedge (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Highest	1	2 690 MHz to 2 691 MHz	-32.85	-33.47	-34.87	-33.39	-31.06
	2		-34.02	-34.32	-34.65	-34.50	
	3		-32.28	-32.62	-33.39	-32.97	
	4		-33.06	-33.69	-34.52	-34.29	
	5		-33.00	-32.84	-33.56	-33.40	
	6		-33.94	-34.73	-34.52	-34.33	
	7		-32.51	-33.21	-34.20	-33.25	
	8		-33.64	-33.55	-34.60	-33.92	
	9		-33.01	-32.51	-34.02	-33.26	
	10		-35.17	-34.53	-35.05	-34.89	
	11		-32.74	-32.31	-33.51	-32.49	
	12		-34.34	-34.44	-33.82	-34.32	
	13		-34.00	-33.63	-34.32	-33.56	
	14		-34.93	-33.72	-34.72	-34.27	
	15		-33.30	-32.98	-33.47	-33.22	
	16		-34.39	-34.50	-34.69	-34.28	
	17		-32.87	-34.39	-33.97	-33.13	
	18		-35.64	-35.96	-35.39	-34.97	
	19		-33.47	-34.80	-34.16	-33.48	
	20		-35.34	-35.63	-35.49	-34.21	
	21		-32.05	-33.29	-32.89	-32.14	
	22		-34.20	-35.22	-34.74	-34.28	
	23		-32.68	-34.07	-33.46	-33.02	
	24		-33.08	-34.20	-33.96	-32.93	
	25		-33.18	-35.51	-34.88	-34.52	
	26		-34.75	-36.01	-36.42	-34.74	
	27		-32.84	-34.41	-34.34	-33.49	
	28		-33.22	-34.61	-34.65	-33.71	
	29		-33.05	-34.63	-34.36	-33.84	
	30		-33.19	-35.85	-35.26	-34.91	
	31		-32.72	-34.49	-34.52	-33.95	
	32		-34.40	-36.71	-36.51	-35.68	
	33		-34.24	-33.38	-33.13	-33.50	
	34		-34.43	-33.43	-33.93	-33.28	
	35		-34.34	-33.64	-33.19	-32.99	
	36		-33.74	-32.86	-32.93	-32.97	
	37		-34.80	-33.51	-33.65	-33.87	
	38		-32.55	-32.85	-32.16	-32.91	
	39		-34.32	-32.65	-33.06	-32.96	
	40		-33.19	-33.09	-33.02	-33.24	
	41		-35.11	-35.77	-35.10	-34.60	
	42		-33.23	-34.11	-33.34	-33.17	
	43		-34.30	-35.81	-34.98	-34.48	
	44		-34.79	-35.74	-35.19	-34.76	
	45		-33.70	-35.08	-34.59	-33.70	
	46		-33.21	-33.37	-33.49	-33.53	
	47		-33.25	-35.27	-34.36	-34.08	
	48		-33.13	-34.80	-34.23	-33.88	
	49		-33.75	-33.30	-33.63	-33.26	
	50		-34.49	-34.11	-34.24	-34.11	
	51		-32.85	-32.48	-32.47	-32.52	
	52		-34.48	-33.75	-34.10	-34.26	
	53		-34.09	-33.33	-34.32	-34.06	
	54		-34.24	-33.46	-33.33	-33.77	
	55		-33.62	-33.44	-32.91	-33.15	
	56		-34.99	-34.13	-34.72	-34.61	
	57		-34.52	-33.91	-33.19	-33.10	
	58		-34.78	-34.04	-33.34	-33.61	
	59		-35.28	-34.14	-33.90	-33.12	
	60		-34.66	-33.74	-33.87	-33.16	
	61		-35.16	-34.05	-33.47	-33.05	
	62		-35.26	-34.89	-34.15	-33.95	
	63		-34.44	-33.55	-33.80	-32.73	
	64		-34.24	-33.22	-33.10	-32.16	

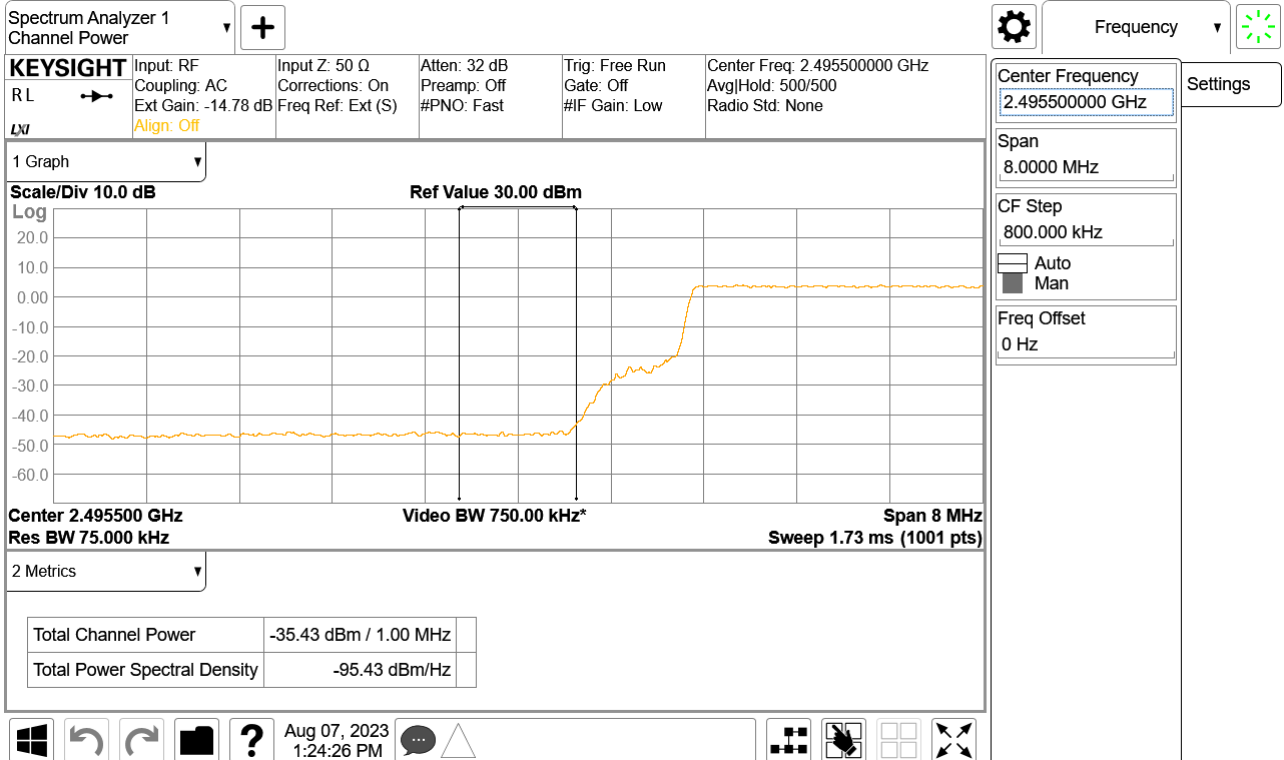
See next pages for actual measured spectrum plots.



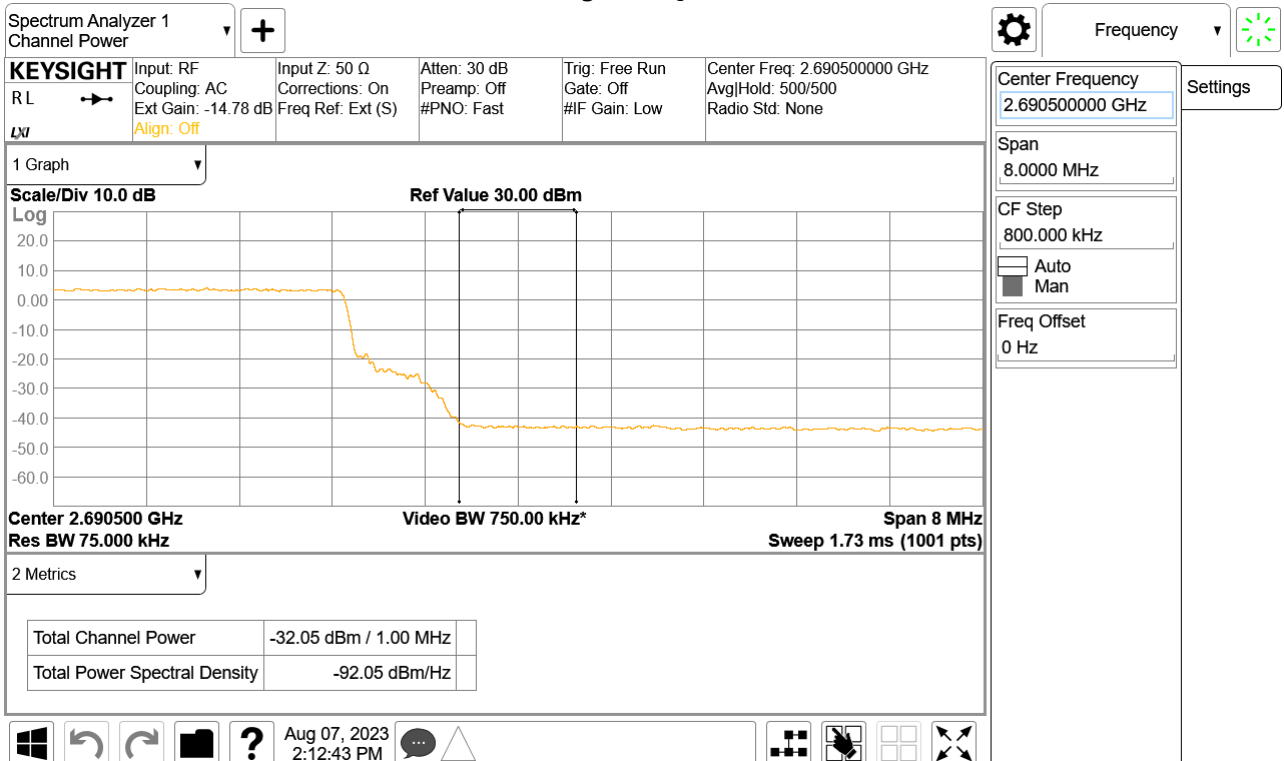
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Lowest QPSK



Highest QPSK

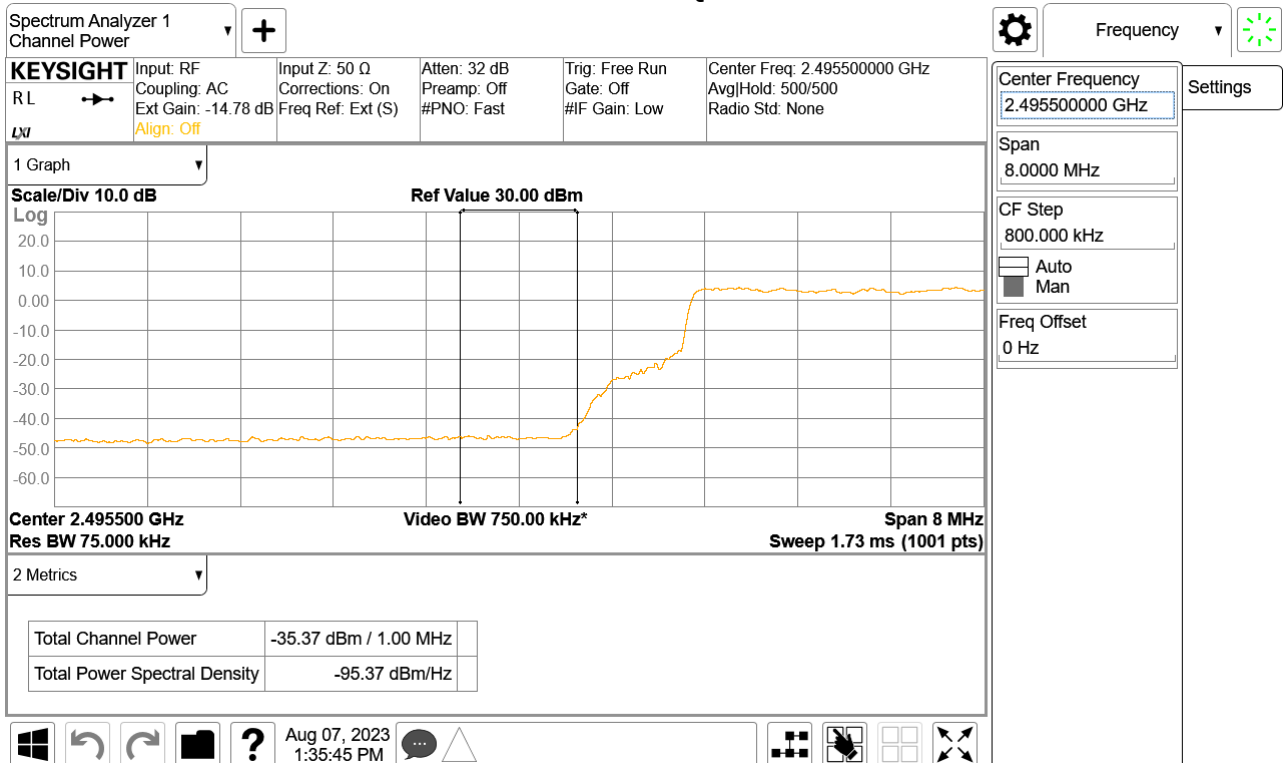




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Lowest 16QAM



Highest 16QAM

