

**CTK Co., Ltd.**

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Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	8.97	8.90	8.68	8.71
	1	9.08	9.26	9.00	9.03
	2	9.34	9.42	9.26	9.28
	3	9.15	9.26	9.04	9.14
	4	9.26	9.33	9.09	9.25
	5	9.25	9.35	9.12	9.24
	6	9.71	9.82	9.55	9.75
	7	9.66	9.76	9.52	9.68
	8	9.27	9.35	9.14	9.27
	9	9.14	9.27	9.10	9.22
	10	9.25	9.35	9.11	9.23
	11	9.25	9.35	9.17	9.26
	12	9.06	9.11	8.94	9.08
	13	9.45	9.53	9.40	9.54
	14	9.23	9.29	9.16	9.28
	15	9.03	9.18	8.98	8.97
Total MIMO Conducted PSD (mW/MHz)		134.96	137.77	131.47	134.71
Total MIMO Conducted PSD (dBm/MHz)		21.30	21.39	21.19	21.29
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p PSD (dBm/MHz)		36.10	36.19	35.99	36.09
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-0.90	-0.81	-1.01	-0.91

Table 8-16. Power Spectral Density Table (n48_4C_10M+10M+10M+40M)

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Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	0	8.73	8.75	8.74	8.49
	1	8.87	8.96	8.98	8.74
	2	9.13	9.28	9.28	8.99
	3	8.96	9.08	9.08	8.87
	4	9.04	9.16	9.17	8.95
	5	9.03	9.17	9.19	8.97
	6	9.50	9.67	9.68	9.41
	7	9.46	9.59	9.58	9.39
	8	9.10	9.24	9.23	9.02
	9	8.89	9.04	9.03	8.73
	10	9.03	9.14	9.15	8.91
	11	9.00	9.19	9.14	8.98
	12	8.90	9.00	8.97	8.78
	13	9.16	9.30	9.31	9.09
	14	9.06	9.18	9.18	8.97
	15	8.79	8.94	8.93	8.72
Total MIMO Conducted PSD (mW/MHz)		128.42	132.22	132.18	125.45
Total MIMO Conducted PSD (dBm/MHz)		21.09	21.21	21.21	20.98
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p PSD (dBm/MHz)		35.89	36.01	36.01	35.78
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-1.11	-0.99	-0.99	-1.22
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	8.49	8.80	8.82	8.62
	1	8.66	8.64	8.78	8.71
	2	8.89	8.98	9.10	9.00
	3	8.67	8.69	8.89	8.77
	4	8.83	8.90	9.01	8.93
	5	8.81	8.91	9.03	8.92
	6	9.38	9.50	9.57	9.48
	7	9.22	9.29	9.41	9.33
	8	8.86	8.93	9.06	8.97
	9	8.62	8.71	8.82	8.76
	10	8.78	8.83	8.92	8.85
	11	8.79	8.85	8.96	8.89
	12	8.69	8.75	8.88	8.78
	13	8.93	9.00	9.13	9.05
	14	8.89	8.95	9.03	8.95
	15	8.56	8.60	8.70	8.59
Total MIMO Conducted PSD (mW/MHz)		121.99	124.20	127.45	124.70
Total MIMO Conducted PSD (dBm/MHz)		20.86	20.94	21.05	20.96
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p PSD (dBm/MHz)		35.66	35.74	35.85	35.76
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-1.34	-1.26	-1.15	-1.24

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Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	8.53	8.14	8.50	8.51
	1	8.77	8.73	8.82	8.82
	2	8.96	8.85	8.97	8.99
	3	8.75	8.68	8.82	8.82
	4	8.91	8.77	8.96	8.92
	5	8.92	8.76	8.90	8.88
	6	9.39	9.26	9.45	9.40
	7	9.30	9.12	9.26	9.27
	8	9.00	8.81	8.94	8.92
	9	8.93	8.74	8.88	8.86
	10	8.91	8.81	8.91	8.90
	11	8.97	8.75	8.86	8.87
	12	8.76	8.58	8.71	8.69
	13	9.22	9.01	9.13	9.16
	14	8.87	8.81	8.96	8.91
	15	8.61	8.49	8.59	8.58
Total MIMO Conducted PSD (mW/MHz)		125.05	120.73	124.80	124.49
Total MIMO Conducted PSD (dBm/MHz)		20.97	20.82	20.96	20.95
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p PSD (dBm/MHz)		35.77	35.62	35.76	35.75
e.i.r.p PSD Limit (dBm/MHz)		37.00	37.00	37.00	37.00
Margin (dB)		-1.23	-1.38	-1.24	-1.25

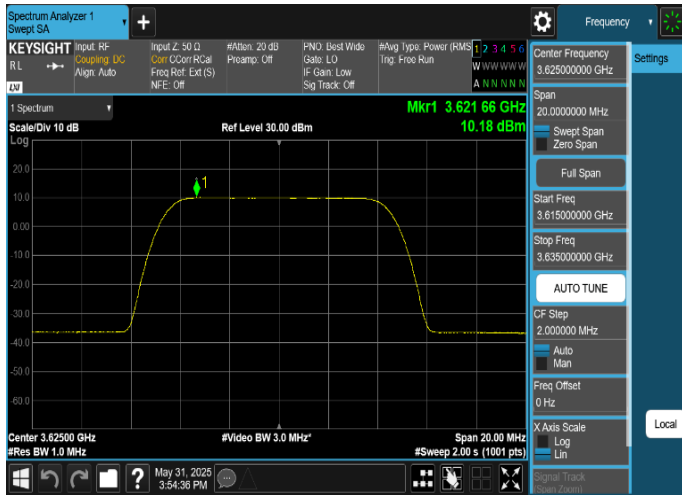
Table 8-17. Power Spectral Density Table (n48_1C_80M)



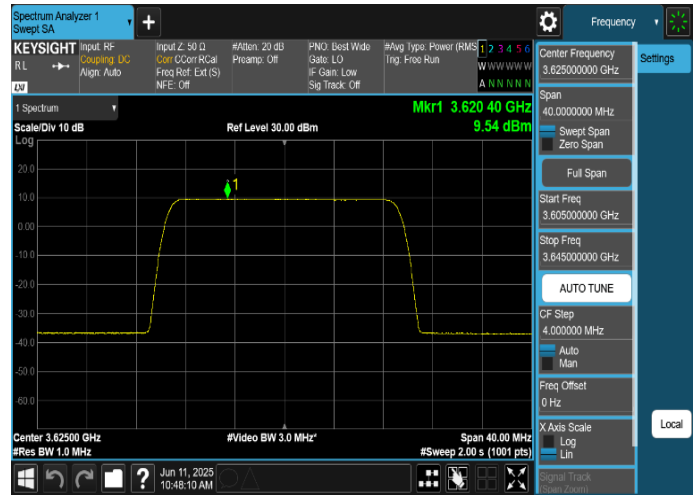
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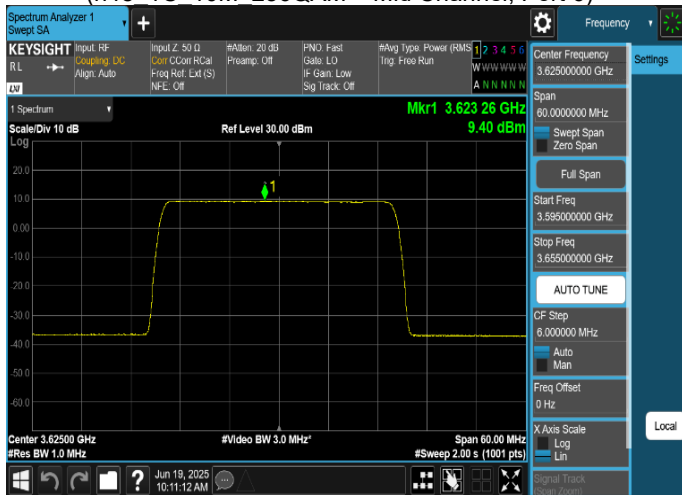
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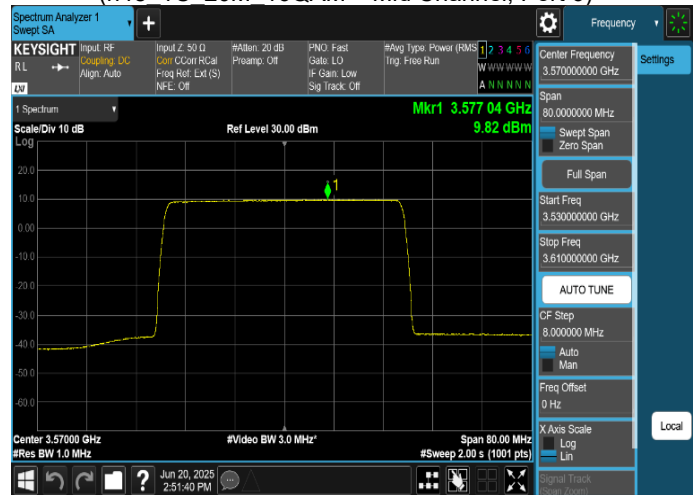
Plot 8-21. Power Spectral Density Plot
(n48_1C_10M_256QAM – Mid Channel, Port 6)



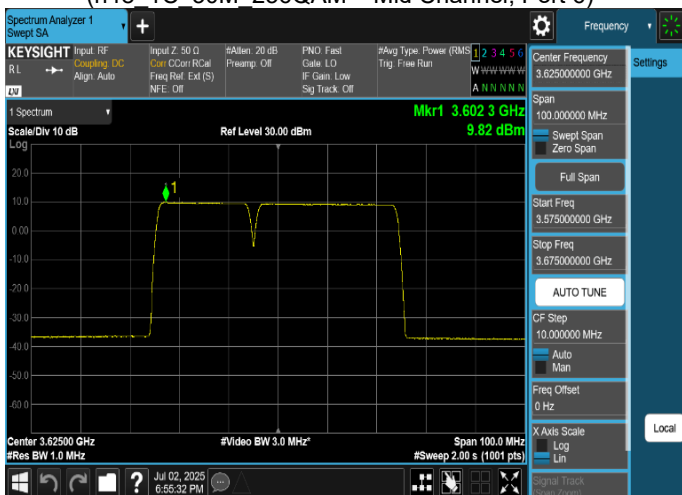
Plot 8-22. Power Spectral Density Plot
(n48_1C_20M_16QAM – Mid Channel, Port 6)



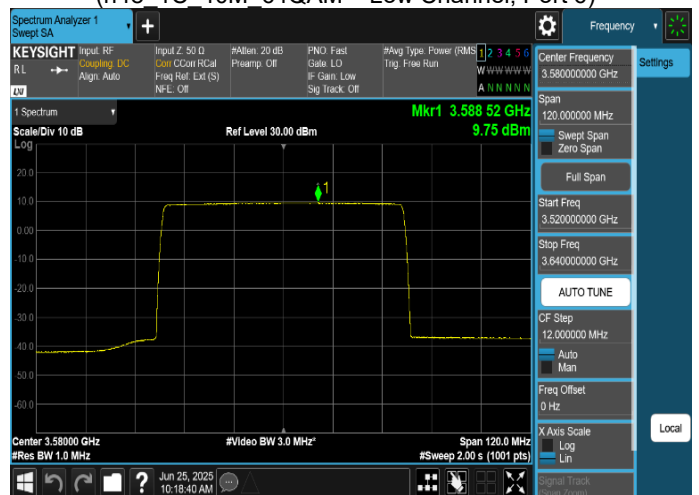
Plot 8-23. Power Spectral Density Plot
(n48_1C_30M_256QAM – Mid Channel, Port 6)



Plot 8-24. Power Spectral Density Plot
(n48_1C_40M_64QAM – Low Channel, Port 6)



Plot 8-25. Power Spectral Density Plot
(n48_2C_20M+30M_16QAM – Mid Channel, Port 6)



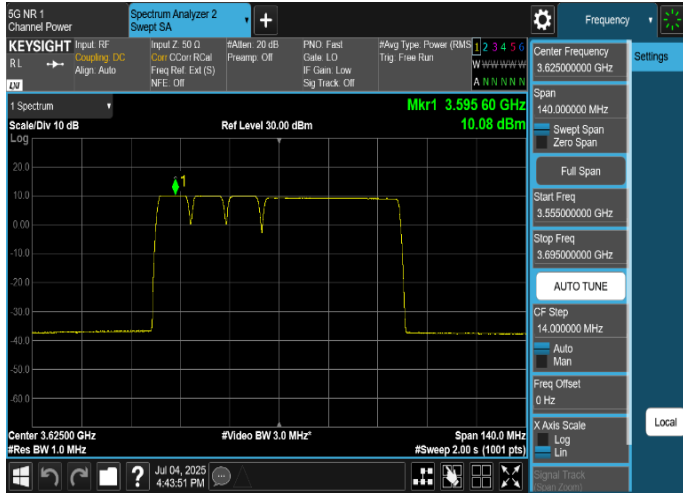
Plot 8-26. Power Spectral Density Plot
(n48_1C_60M_64QAM – Low Channel, Port 6)



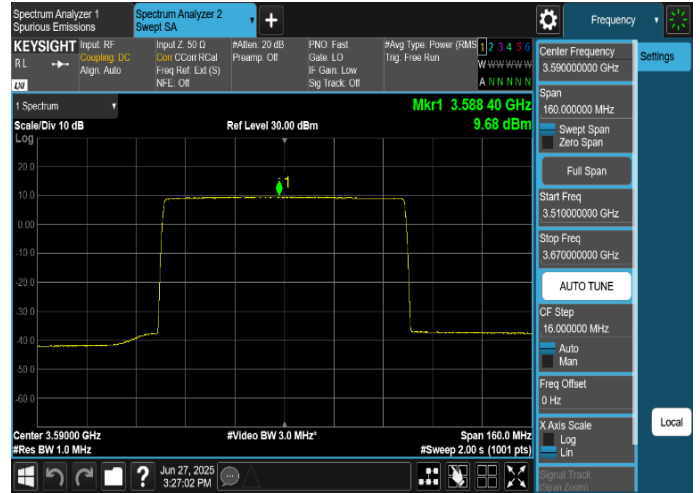
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Plot 8-27. Power Spectral Density Plot
(n48_4C_10M+10M+10M+40M_QPSK – Mid Channel, Port 6)



Plot 8-28. Power Spectral Density Plot
(n48_1C_80M_64QAM – Low Channel, Port 6)

8.5 Maximum Equivalent Isotropic Radiated Power (EIRP)

Test Overview

A transmitter port of EUT is connected to the input of a signal analyzer. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Description

KDB 971168 D01 v03r01 – Section 5.4

KDB 662911 D01 v02r01 – Section E)1) In-Band Power Measurements

ANSI C63.26-2015 – Section 5.2.4

ANSI C63.26 - Section 5.2.5

The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The spectrum analyzer settings were as follows:

1. Conducted power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. IBW = 10 MHz (the reference bandwidth)
3. RBW = 1 ~ 5% of the expected OBW
4. VBW $\geq 3 \times$ RBW
5. Span = 2 ~ 3 x OBW
6. No. of sweep points $\geq 2 \times$ span / RBW
7. Detector = RMS
8. Trace mode = Trace-Averaging (RMS) set to average over 100 sweeps
9. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

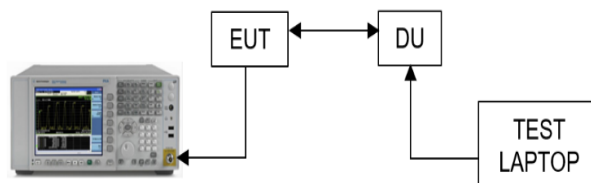


Figure 8-4. Test Instrument & Measurement Setup

Limit

§ 96.41 (b) Maximum EIRP
 Category B CBSD: 47dBm/10 MHz

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Note

1. Periodic trigger was used with gating ON. Gate sweep time, Gate delay and gate length were set accordingly to capture ON time of the transmission.
2. MIMO Calculations are done considering output channel power for all ports and respective margins are calculated according to procedures in section 6.4 of ANSI C63.26 and section D of KDB 971168 D01 v03r01.
3. For multi-carrier operation, the conducted power of each carrier is measured to compare the results of the first and second carriers. After the comparison, the highest measured value is listed in the report.
4. Consider the following factors for MIMO Power:
 - c) Conducted power for each port is measured in dBm.
 - d) Powers are summed up in linear using the measure-and-sum technique defined in KDB 971168 D01 v03r01- Section D.
 - e) Conducted power per port (dBm) is converted to a linear value (mW). A summation of linear powers for all ports gives us the total MIMO conducted power in milliWatts (mW).
5. Tested for Common beam mode to perform RF testing that can get maximum Tx power setting.
6. Applied antenna gain as below:

Mode	NR 10MHz			NR 20MHz			NR 30MHz		
	SU	MU	Common	SU	MU	Common	SU	MU	Common
Tx Power Max(dBm)	25.2	21.7	30.7	28.2	24.7	33.7	29.9	26.4	35.4
Max. Gain (dBi)	20.3	20.3	14.8	20.3	20.3	14.8	20.3	14.8	14.45
Beam EIRP Sum (dB)	0	3	0	0	3	0	0	3	0
Max. EIRP (dBm)	45.5	45	45.5	48.5	48	48.5	50.2	44.2	49.9
Mode	NR 40MHz			NR 60MHz			NR 80MHz		
	SU	MU	Common	SU	MU	Common	SU	MU	Common
Tx Power Max(dBm)	31.2	27.7	36.7	33	29.5	38.5	34.2	30.7	39.7
Max. Gain (dBi)	20.3	20.3	14.8	20.3	20.3	14.8	20.3	20.3	14.8
Beam EIRP Sum (dB)	0	3	0	0	3	0	0	3	0
Max. EIRP (dBm)	51.5	51	51.5	53.3	52.8	53.3	54.5	54	54.5

6. Sample Calculation:

Let us assume the following numbers:

- a) Total MIMO Conducted Power as 955.45 mW
- b) Antenna Gain = 14.80 dBi

Factors	Value	Unit
Summed MIMO Conducted Power (linear sum)	955.45	mW
Summed MIMO Conducted Power (dBm) = $10 * \log(955.45) =$	29.80	dBm/10MHz
Antenna Gain	14.80	dBi
e.i.r.p	44.60	dBm/10MHz
Limit	47.00	dBm/10 MHz
Margin = Limit - e.i.r.p = $44.60 - 47.00 =$	-2.40	dB

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Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	0	17.34	17.36	17.36	17.49
	1	17.61	17.62	17.62	17.75
	2	17.93	17.95	17.98	18.08
	3	17.66	17.65	17.70	17.83
	4	17.78	17.79	17.76	17.90
	5	17.67	17.72	17.73	17.86
	6	18.14	18.19	18.19	18.33
	7	18.06	18.18	18.14	18.25
	8	17.79	17.81	17.83	18.00
	9	17.52	17.57	17.59	17.73
	10	18.16	18.21	18.21	18.35
	11	17.62	17.69	17.69	17.84
	12	17.56	17.56	17.58	17.67
	13	17.86	17.80	17.81	17.95
	14	17.82	17.78	17.73	17.88
	15	17.56	17.56	17.51	17.67
Total MIMO Conducted power (mW/10MHz)		955.45	960.58	960.41	990.58
Total MIMO Conducted power (dBm/10MHz)		29.80	29.83	29.82	29.96
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		44.60	44.63	44.62	44.76
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-2.40	-2.37	-2.38	-2.24
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	17.67	17.64	17.44	17.58
	1	17.76	17.94	17.70	17.84
	2	18.08	18.26	18.02	18.15
	3	17.82	18.00	17.74	17.87
	4	17.89	18.05	17.83	17.97
	5	17.93	18.11	17.88	18.02
	6	18.46	18.64	18.40	18.54
	7	18.24	18.50	18.24	18.37
	8	17.91	18.15	17.87	17.99
	9	17.79	17.98	17.74	17.86
	10	18.27	18.49	18.29	18.38
	11	17.84	18.06	17.87	17.92
	12	17.73	17.93	17.77	17.82
	13	18.12	18.30	18.14	18.19
	14	17.86	18.14	17.93	17.99
	15	17.68	17.93	17.85	17.79
Total MIMO Conducted power (mW/10MHz)		997.16	1042.51	992.47	1015.22
Total MIMO Conducted power (dBm/10MHz)		29.99	30.18	29.97	30.07
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		44.79	44.98	44.77	44.87
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-2.21	-2.02	-2.23	-2.13

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High	0	17.48	17.19	17.45	17.40
	1	17.98	17.68	17.93	17.86
	2	18.16	17.86	18.10	18.07
	3	18.00	17.72	17.95	17.90
	4	17.94	17.70	17.90	17.84
	5	18.01	17.76	17.99	17.91
	6	18.49	18.24	18.46	18.38
	7	18.39	18.18	18.37	18.29
	8	17.92	17.68	17.89	17.82
	9	18.00	17.77	17.95	17.88
	10	18.44	18.21	18.39	18.32
	11	17.94	17.79	17.89	17.82
	12	17.68	17.43	17.65	17.58
	13	18.18	17.90	18.14	18.08
	14	17.85	17.59	17.81	17.72
	15	17.82	17.56	17.73	17.72
Total MIMO Conducted power (mW/10MHz)		1015.43	958.48	1005.57	990.99
Total MIMO Conducted power (dBm/10MHz)		30.07	29.82	30.02	29.96
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		44.87	44.62	44.82	44.76
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-2.13	-2.38	-2.18	-2.24

Table 8-18. Equivalent Isotropic Radiated Power Table (n48_1C_10M)

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Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	0	17.53	17.90	17.79	17.59
	1	17.81	18.23	18.09	17.89
	2	18.06	18.45	18.31	18.12
	3	17.90	18.27	18.18	17.96
	4	17.91	18.38	18.19	17.98
	5	17.93	18.36	18.21	18.01
	6	18.27	18.68	18.52	18.33
	7	18.32	18.62	18.58	18.38
	8	18.00	18.42	18.26	18.06
	9	18.27	18.20	18.03	17.83
	10	18.41	18.33	18.22	18.00
	11	18.35	18.29	18.15	17.96
	12	18.20	18.16	18.02	17.82
	13	18.40	18.41	18.27	18.05
	14	18.39	18.35	18.21	18.01
	15	18.09	18.07	17.92	17.71
Total MIMO Conducted power (mW/10MHz)		1038.27	1087.72	1054.34	1006.18
Total MIMO Conducted power (dBm/10MHz)		30.16	30.37	30.23	30.03
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		44.96	45.17	45.03	44.83
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-2.04	-1.83	-1.97	-2.17
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	18.04	18.16	17.97	17.96
	1	18.29	18.45	18.24	18.27
	2	18.50	18.64	18.44	18.48
	3	18.32	18.38	18.26	18.31
	4	18.47	18.51	18.30	18.36
	5	18.52	18.50	18.36	18.42
	6	18.99	18.99	18.82	18.87
	7	18.98	18.94	18.76	18.80
	8	18.54	18.59	18.39	18.42
	9	18.35	18.48	18.25	18.31
	10	18.53	18.58	18.38	18.41
	11	18.46	18.56	18.32	18.34
	12	18.32	18.42	18.17	18.19
	13	18.71	18.74	18.53	18.55
	14	18.52	18.59	18.40	18.40
	15	18.30	18.36	18.16	18.16
Total MIMO Conducted power (mW/10MHz)		1131.82	1148.55	1097.87	1105.91
Total MIMO Conducted power (dBm/10MHz)		30.54	30.60	30.41	30.44
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.34	45.40	45.21	45.24
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.66	-1.60	-1.79	-1.76

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Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	17.48	17.88	17.43	17.84
	1	17.98	18.34	17.89	18.30
	2	18.12	18.47	18.03	18.44
	3	18.03	18.36	17.91	18.31
	4	17.94	18.31	17.92	18.27
	5	18.01	18.37	17.98	18.33
	6	18.41	18.77	18.38	18.74
	7	18.43	18.82	18.39	18.76
	8	17.94	18.32	17.91	18.24
	9	17.94	18.32	17.95	18.29
	10	18.05	18.45	18.03	18.36
	11	18.00	18.40	17.96	18.33
	12	17.68	18.08	17.65	17.98
	13	18.21	18.62	18.16	18.48
	14	17.87	18.28	17.84	18.16
	15	17.82	18.23	17.78	18.10
Total MIMO Conducted power (mW/10MHz)		1009.64	1102.36	999.52	1085.27
Total MIMO Conducted power (dBm/10MHz)		30.04	30.42	30.00	30.36
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		44.84	45.22	44.80	45.16
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-2.16	-1.78	-2.20	-1.84

Table 8-19. Equivalent Isotropic Radiated Power Table (n48_1C_20M)

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Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	0	17.95	17.90	17.35	17.85
	1	18.22	18.18	17.61	18.11
	2	18.50	18.46	17.88	18.39
	3	18.29	18.27	17.68	18.19
	4	18.32	18.32	17.75	18.22
	5	18.34	18.33	17.73	18.24
	6	18.73	18.70	18.12	18.61
	7	18.69	18.67	18.10	18.58
	8	18.39	18.36	17.80	18.29
	9	18.23	18.21	17.58	18.07
	10	18.37	18.34	17.78	18.26
	11	18.27	18.26	17.69	18.17
	12	18.16	18.15	17.57	18.05
	13	18.37	18.35	17.79	18.29
	14	18.35	18.34	17.78	18.25
	15	18.02	18.01	17.44	17.92
Total MIMO Conducted power (mW/10MHz)		1089.10	1083.63	949.25	1062.62
Total MIMO Conducted power (dBm/10MHz)		30.37	30.35	29.77	30.26
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.17	45.15	44.57	45.06
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.83	-1.85	-2.43	-1.94
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	18.29	17.93	17.47	18.29
	1	18.52	18.12	17.78	18.57
	2	18.74	18.34	17.97	18.75
	3	18.55	18.16	17.79	18.61
	4	18.62	18.22	17.81	18.52
	5	18.69	18.27	17.87	18.60
	6	19.13	18.73	18.30	19.03
	7	19.07	18.65	18.21	18.97
	8	18.69	18.28	18.08	18.58
	9	18.56	18.14	18.28	18.42
	10	18.66	18.25	18.43	18.56
	11	18.61	18.19	18.39	18.52
	12	18.46	18.07	18.20	18.36
	13	18.85	18.46	18.63	18.73
	14	18.67	18.27	18.41	18.53
	15	18.32	18.05	18.16	18.28
Total MIMO Conducted power (mW/10MHz)		1174.54	1072.54	1038.14	1155.72
Total MIMO Conducted power (dBm/10MHz)		30.70	30.30	30.16	30.63
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.50	45.10	44.96	45.43
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.50	-1.90	-2.04	-1.57

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Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	17.69	17.35	17.27	17.62
	1	18.12	17.76	17.68	17.99
	2	18.28	17.92	17.86	18.21
	3	18.15	17.81	17.71	18.04
	4	18.11	17.77	17.68	18.02
	5	18.18	17.89	17.77	18.03
	6	18.58	18.25	18.16	18.51
	7	18.61	18.31	18.22	18.44
	8	18.14	17.80	17.72	17.99
	9	18.10	17.77	17.68	17.92
	10	18.23	17.91	17.81	18.09
	11	18.18	17.83	17.73	17.99
	12	17.84	17.48	17.39	17.68
	13	18.41	18.08	17.95	18.17
	14	18.05	17.70	17.59	17.89
	15	18.01	17.69	17.53	17.77
Total MIMO Conducted power (mW/10MHz)		1050.67	972.78	951.05	1016.21
Total MIMO Conducted power (dBm/10MHz)		30.21	29.88	29.78	30.07
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.01	44.68	44.58	44.87
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.99	-2.32	-2.42	-2.13

Table 8-20. Equivalent Isotropic Radiated Power Table (n48_1C_30M)

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Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	0	18.17	18.27	17.94	18.30
	1	18.35	18.54	18.19	18.57
	2	18.64	18.77	18.47	18.85
	3	18.48	18.65	18.31	18.70
	4	18.53	18.68	18.35	18.73
	5	18.54	18.67	18.35	18.73
	6	18.97	19.09	18.77	19.17
	7	18.86	19.01	18.69	19.07
	8	18.58	18.72	18.43	18.80
	9	18.39	18.52	18.21	18.59
	10	18.57	18.69	18.36	18.76
	11	18.46	18.61	18.27	18.68
	12	18.36	18.51	18.15	18.56
	13	18.61	18.76	18.40	18.82
	14	18.53	18.72	18.35	18.79
	15	18.23	18.39	18.02	18.45
Total MIMO Conducted power (mW/10MHz)		1138.32	1177.12	1090.15	1193.78
Total MIMO Conducted power (dBm/10MHz)		30.56	30.71	30.37	30.77
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.36	45.51	45.17	45.57
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.64	-1.49	-1.83	-1.43
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	18.19	18.31	18.23	18.22
	1	18.44	18.56	18.50	18.48
	2	18.69	18.78	18.83	18.71
	3	18.53	18.60	18.65	18.55
	4	18.56	18.64	18.68	18.58
	5	18.61	18.67	18.75	18.66
	6	19.07	19.15	19.21	19.14
	7	19.00	19.07	19.14	19.06
	8	18.62	18.68	18.77	18.68
	9	18.50	18.57	18.62	18.55
	10	18.62	18.66	18.72	18.65
	11	18.54	18.60	18.68	18.60
	12	18.38	18.45	18.51	18.42
	13	18.78	18.86	18.91	18.82
	14	18.60	18.63	18.73	18.66
	15	18.33	18.40	18.48	18.38
Total MIMO Conducted power (mW/10MHz)		1158.23	1177.84	1191.42	1170.05
Total MIMO Conducted power (dBm/10MHz)		30.64	30.71	30.76	30.68
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.44	45.51	45.56	45.48
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.56	-1.49	-1.44	-1.52

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Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	17.57	17.26	17.68	17.79
	1	17.95	17.62	18.07	18.15
	2	18.15	17.84	18.23	18.39
	3	18.02	17.70	18.13	18.26
	4	17.96	17.65	18.10	18.19
	5	18.05	17.74	18.17	18.27
	6	18.44	18.15	18.55	18.66
	7	18.50	18.18	18.55	18.69
	8	18.01	17.69	18.10	18.23
	9	17.96	17.70	18.09	18.16
	10	18.07	17.80	18.16	18.30
	11	18.03	17.71	18.13	18.25
	12	17.68	17.39	17.79	17.90
	13	18.25	17.89	18.36	18.43
	14	17.91	17.63	18.02	18.14
	15	17.82	17.54	17.92	18.03
Total MIMO Conducted power (mW/10MHz)		1016.38	947.39	1041.14	1068.37
Total MIMO Conducted power (dBm/10MHz)		30.07	29.77	30.18	30.29
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		44.87	44.57	44.98	45.09
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-2.13	-2.43	-2.02	-1.91

Table 8-21. Equivalent Isotropic Radiated Power Table (n48_1C_40M)

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Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	0	17.89	18.26	18.51	18.03
	1	18.14	18.54	18.80	18.31
	2	18.41	18.77	19.06	18.54
	3	18.31	18.62	18.89	18.40
	4	18.33	18.71	18.99	18.47
	5	18.29	18.66	18.96	18.40
	6	18.80	19.02	19.30	18.75
	7	18.77	19.08	19.27	18.83
	8	18.45	18.73	18.84	18.46
	9	18.15	18.56	18.75	18.29
	10	18.38	18.63	18.83	18.35
	11	18.23	18.63	18.84	18.38
	12	18.17	18.44	18.66	18.16
	13	18.59	18.79	18.94	18.44
	14	18.47	18.62	18.85	18.35
	15	18.26	18.33	18.56	18.02
Total MIMO Conducted power (mW/10MHz)		1096.39	1173.69	1237.20	1104.71
Total MIMO Conducted power (dBm/10MHz)		30.40	30.70	30.92	30.43
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.20	45.50	45.72	45.23
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.80	-1.50	-1.28	-1.77
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	17.84	18.33	18.59	17.95
	1	18.15	18.59	18.77	18.15
	2	18.35	18.80	19.08	18.40
	3	18.25	18.66	18.89	18.20
	4	18.27	18.78	19.06	18.36
	5	18.24	18.79	19.06	18.35
	6	18.73	19.26	19.52	18.81
	7	18.73	19.21	19.49	18.77
	8	18.35	18.78	19.04	18.33
	9	18.22	18.63	18.93	18.20
	10	18.38	18.71	18.96	18.25
	11	18.23	18.76	19.02	18.30
	12	18.15	18.66	18.90	18.20
	13	18.56	19.04	19.21	18.51
	14	18.38	18.76	19.00	18.29
	15	18.12	18.53	18.79	18.08
Total MIMO Conducted power (mW/10MHz)		1085.44	1206.54	1278.44	1088.58
Total MIMO Conducted power (dBm/10MHz)		30.36	30.82	31.07	30.37
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.16	45.62	45.87	45.17
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.84	-1.38	-1.13	-1.83

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Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	17.88	18.03	18.44	17.83
	1	18.25	18.38	18.78	18.16
	2	18.26	18.62	19.03	18.41
	3	18.17	18.47	18.91	18.28
	4	18.14	18.46	18.87	18.26
	5	18.11	18.47	18.85	18.25
	6	18.58	18.92	19.31	18.69
	7	18.64	18.94	19.32	18.73
	8	18.20	18.45	18.84	18.23
	9	18.19	18.37	18.80	18.17
	10	18.30	18.52	18.89	18.31
	11	18.15	18.42	18.85	18.24
	12	17.86	18.11	18.49	17.91
	13	18.48	18.70	19.06	18.43
	14	18.24	18.38	18.79	18.17
	15	18.10	18.26	18.67	18.06
Total MIMO Conducted power (mW/10MHz)		1063.63	1126.28	1234.84	1072.84
Total MIMO Conducted power (dBm/10MHz)		30.27	30.52	30.92	30.31
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.07	45.32	45.72	45.11
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.93	-1.68	-1.28	-1.89

Table 8-22. Equivalent Isotropic Radiated Power Table (n48_2C_20M+30M)

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Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	0	18.00	18.57	17.56	17.76
	1	18.30	18.80	17.79	18.02
	2	18.55	19.06	18.06	18.30
	3	18.40	18.88	17.90	17.99
	4	18.44	18.39	17.98	17.83
	5	18.45	18.37	17.95	17.83
	6	18.93	18.86	18.44	18.33
	7	18.83	18.70	18.28	18.17
	8	18.51	18.41	18.00	17.90
	9	18.31	18.21	17.81	17.72
	10	18.47	18.35	17.95	17.86
	11	18.44	18.31	17.89	17.84
	12	18.34	18.23	17.80	17.77
	13	18.65	18.49	18.06	18.08
	14	18.53	18.41	17.98	18.03
	15	18.28	18.14	17.72	17.78
Total MIMO Conducted power (mW/10MHz)		1124.81	1137.77	998.64	999.03
Total MIMO Conducted power (dBm/10MHz)		30.51	30.56	29.99	30.00
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.31	45.36	44.79	44.80
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.69	-1.64	-2.21	-2.20
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	17.94	17.53	17.34	18.20
	1	18.20	17.79	17.61	18.45
	2	18.41	18.00	17.81	18.68
	3	18.24	17.82	17.64	18.50
	4	18.30	17.88	17.71	18.56
	5	18.37	17.94	17.77	18.61
	6	18.82	18.40	18.22	19.07
	7	18.76	18.35	18.14	18.99
	8	18.37	17.98	17.78	18.62
	9	18.29	17.86	17.68	18.53
	10	18.37	17.94	17.75	18.60
	11	18.32	17.89	17.70	18.56
	12	18.17	17.72	17.55	18.39
	13	18.55	18.14	17.92	18.77
	14	18.38	17.95	17.77	18.62
	15	18.10	17.73	17.50	18.34
Total MIMO Conducted power (mW/10MHz)		1095.45	995.18	952.69	1158.66
Total MIMO Conducted power (dBm/10MHz)		30.40	29.98	29.79	30.64
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.20	44.78	44.59	45.44
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.80	-2.22	-2.41	-1.56

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Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	17.72	17.88	17.46	17.40
	1	18.08	18.23	17.81	17.82
	2	18.32	18.46	18.06	17.99
	3	18.15	18.34	17.88	17.73
	4	18.16	18.31	17.87	17.78
	5	18.20	18.36	17.93	17.85
	6	18.64	18.79	18.36	18.65
	7	18.64	18.80	18.38	18.63
	8	18.16	18.32	17.90	18.14
	9	18.10	18.27	17.84	18.04
	10	18.22	18.37	17.95	18.17
	11	18.16	18.29	17.89	18.12
	12	17.87	18.00	17.58	17.73
	13	18.37	18.50	18.09	18.36
	14	18.12	18.22	17.81	18.01
	15	18.00	18.14	17.72	17.95
Total MIMO Conducted power (mW/10MHz)		1054.19	1090.79	989.81	1017.67
Total MIMO Conducted power (dBm/10MHz)		30.23	30.38	29.96	30.08
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.03	45.18	44.76	44.88
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.97	-1.82	-2.24	-2.12

Table 8-23. Equivalent Isotropic Radiated Power Table (n48_1C_60M)

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Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	0	17.96	17.79	17.88	17.80
	1	18.10	17.90	18.10	18.00
	2	18.29	18.12	18.40	18.32
	3	18.38	18.15	18.32	18.30
	4	18.37	18.18	18.24	18.21
	5	18.39	18.17	18.31	18.21
	6	18.92	18.73	18.76	18.76
	7	18.73	18.49	18.70	18.57
	8	18.43	18.26	18.41	18.29
	9	18.05	17.85	18.18	18.10
	10	18.20	18.09	18.37	18.25
	11	18.30	18.10	18.19	18.09
	12	18.20	18.09	18.20	18.29
	13	18.56	18.37	18.35	18.33
	14	18.32	18.10	18.34	18.20
	15	18.28	18.03	18.07	18.04
Total MIMO Conducted power (mW/10MHz)		1093.99	1046.76	1083.33	1066.98
Total MIMO Conducted power (dBm/10MHz)		30.39	30.20	30.35	30.28
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.19	45.00	45.15	45.08
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.81	-2.00	-1.85	-1.92
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	18.02	17.84	18.01	17.89
	1	18.26	18.07	18.18	18.07
	2	18.34	18.16	18.48	18.36
	3	18.43	18.25	18.36	18.26
	4	18.38	18.18	18.39	18.25
	5	18.38	18.23	18.40	18.27
	6	18.84	18.67	18.93	18.80
	7	18.67	18.53	18.83	18.70
	8	18.43	18.23	18.52	18.47
	9	18.15	17.97	18.20	18.10
	10	18.36	18.18	18.47	18.33
	11	18.31	18.09	18.33	18.20
	12	18.14	17.99	18.08	18.21
	13	18.55	18.33	18.59	18.46
	14	18.27	18.15	18.51	18.37
	15	18.24	18.06	18.20	18.11
Total MIMO Conducted power (mW/10MHz)		1098.07	1054.12	1109.93	1083.95
Total MIMO Conducted power (dBm/10MHz)		30.41	30.23	30.45	30.35
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.21	45.03	45.25	45.15
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.79	-1.97	-1.75	-1.85



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Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	17.86	17.63	18.00	17.88
	1	18.27	17.99	18.20	18.07
	2	18.32	18.06	18.49	18.32
	3	18.41	18.13	18.38	18.25
	4	18.25	18.01	18.45	18.27
	5	18.30	18.09	18.34	18.17
	6	18.69	18.51	18.83	18.66
	7	18.57	18.39	18.77	18.62
	8	18.24	18.05	18.49	18.34
	9	18.08	17.93	18.25	18.13
	10	18.28	18.10	18.46	18.27
	11	18.27	18.10	18.33	18.10
	12	18.03	17.80	17.99	17.90
	13	18.43	18.25	18.54	18.39
	14	18.09	17.98	18.41	18.25
	15	18.18	18.00	18.22	18.07
Total MIMO Conducted power (mW/10MHz)		1074.62	1025.56	1104.41	1065.83
Total MIMO Conducted power (dBm/10MHz)		30.31	30.11	30.43	30.28
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.11	44.91	45.23	45.08
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.89	-2.09	-1.77	-1.92

Table 8-24. Equivalent Isotropic Radiated Power Table (n48_4C_10M+10M+10M+40M)

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Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	0	18.04	17.82	18.25	18.63
	1	18.19	17.96	18.38	18.80
	2	18.56	18.34	18.75	19.16
	3	18.37	18.15	18.56	18.96
	4	18.46	18.22	18.63	19.03
	5	18.49	18.25	18.66	19.07
	6	18.96	18.72	19.13	19.53
	7	18.89	18.65	19.11	18.95
	8	18.55	18.31	18.75	18.58
	9	18.31	18.07	18.48	18.34
	10	18.45	18.21	18.62	18.47
	11	18.46	18.22	18.64	18.51
	12	18.31	18.04	18.42	18.32
	13	18.63	18.38	18.80	18.67
	14	18.52	18.26	18.69	18.55
	15	18.24	18.02	18.42	18.28
Total MIMO Conducted power (mW/10MHz)		1125.03	1064.96	1172.36	1200.96
Total MIMO Conducted power (dBm/10MHz)		30.51	30.27	30.69	30.80
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.31	45.07	45.49	45.60
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.69	-1.93	-1.51	-1.40
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	17.92	17.60	18.12	18.14
	1	18.19	17.88	18.38	18.43
	2	18.43	18.10	18.62	18.67
	3	18.24	17.92	18.46	18.48
	4	18.28	17.97	18.46	18.48
	5	18.35	18.04	18.54	18.56
	6	18.79	18.47	18.97	19.02
	7	18.73	18.44	18.94	19.00
	8	18.35	18.05	18.56	18.56
	9	18.24	17.91	18.45	18.46
	10	18.32	18.03	18.54	18.53
	11	18.31	17.99	18.51	18.52
	12	18.11	17.82	18.31	18.32
	13	18.50	18.18	18.72	18.72
	14	18.32	18.02	18.52	18.54
	15	18.07	17.74	18.33	18.29
Total MIMO Conducted power (mW/10MHz)		1088.53	1013.13	1141.08	1146.02
Total MIMO Conducted power (dBm/10MHz)		30.37	30.06	30.57	30.59
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.17	44.86	45.37	45.39
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.83	-2.14	-1.63	-1.61

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Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	17.98	17.65	18.11	18.06
	1	18.37	17.96	18.49	18.39
	2	18.62	18.16	18.64	18.59
	3	18.35	18.06	18.52	18.45
	4	18.38	18.08	18.52	18.46
	5	18.42	18.12	18.56	18.50
	6	18.81	18.55	19.00	18.94
	7	18.88	18.55	19.01	18.94
	8	18.48	18.05	18.53	18.47
	9	18.35	17.95	18.44	18.40
	10	18.49	18.07	18.55	18.52
	11	18.52	18.03	18.51	18.46
	12	18.12	17.71	18.15	18.15
	13	18.65	18.27	18.76	18.71
	14	18.33	17.95	18.44	18.40
	15	18.26	17.83	18.32	18.28
Total MIMO Conducted power (mW/10MHz)		1118.18	1025.59	1143.43	1129.74
Total MIMO Conducted power (dBm/10MHz)		30.49	30.11	30.58	30.53
Ant. Gain (dBi)		14.80	14.80	14.80	14.80
e.i.r.p (dBm/10MHz)		45.29	44.91	45.38	45.33
e.i.r.p Limit (dBm/10MHz)		47.00	47.00	47.00	47.00
Margin (dB)		-1.71	-2.09	-1.62	-1.67

Table 8-25. Equivalent Isotropic Radiated Power Table (n48_1C_80M)



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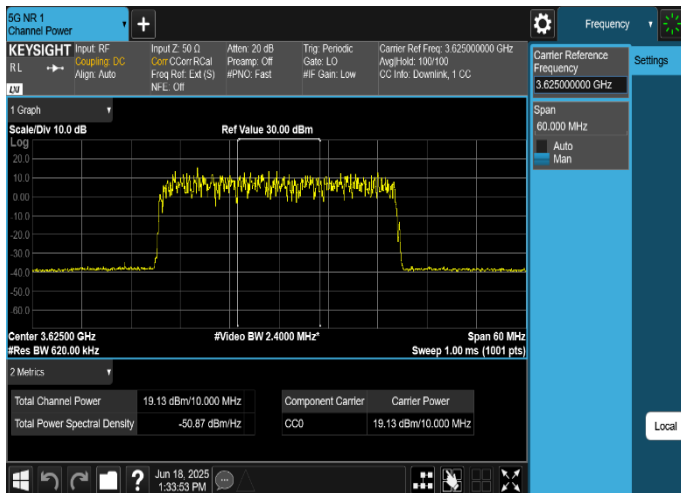
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Plot 8-29. Equivalent Isotropic Radiated Power Plot
(n48_1C_10M_16QAM – Mid Channel, Port 6)



Plot 8-30. Equivalent Isotropic Radiated Power Plot
(n48_1C_20M_QPSK – Mid Channel, Port 6)



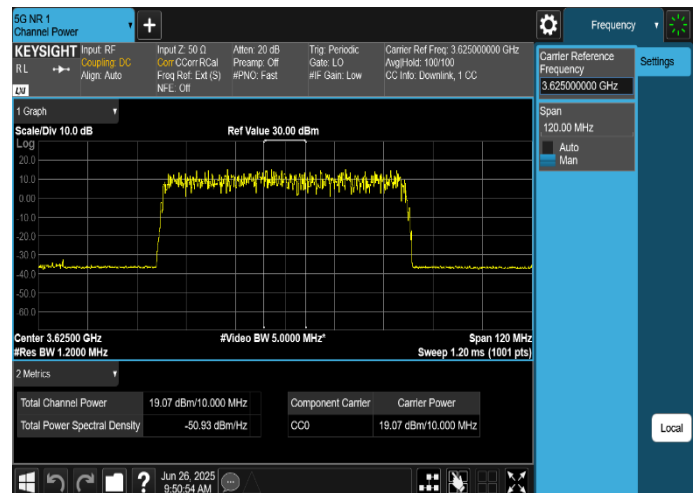
Plot 8-31. Equivalent Isotropic Radiated Power Plot
(n48_1C_30M_QPSK – Mid Channel, Port 6)



Plot 8-32. Equivalent Isotropic Radiated Power Plot
(n48_1C_40M_64QAM – Mid Channel, Port 6)



Plot 8-33. Equivalent Isotropic Radiated Power Plot
(n48_2C_20M+30M_64QAM – Mid Channel, Port 6)



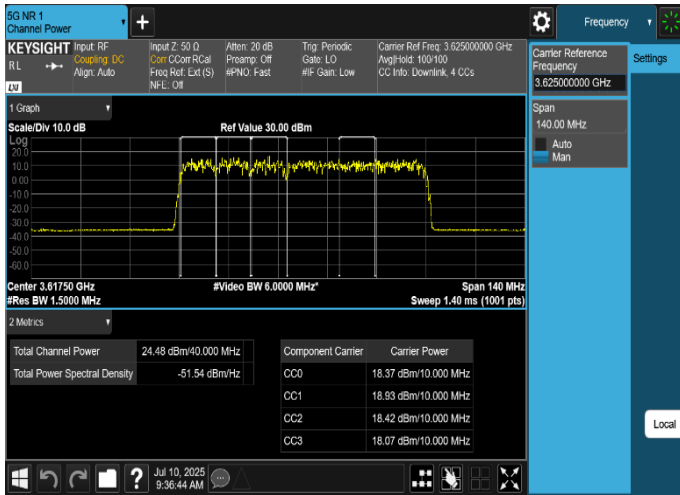
Plot 8-34. Equivalent Isotropic Radiated Power Plot
(n48_1C_60M_256QAM – Mid Channel, Port 6)



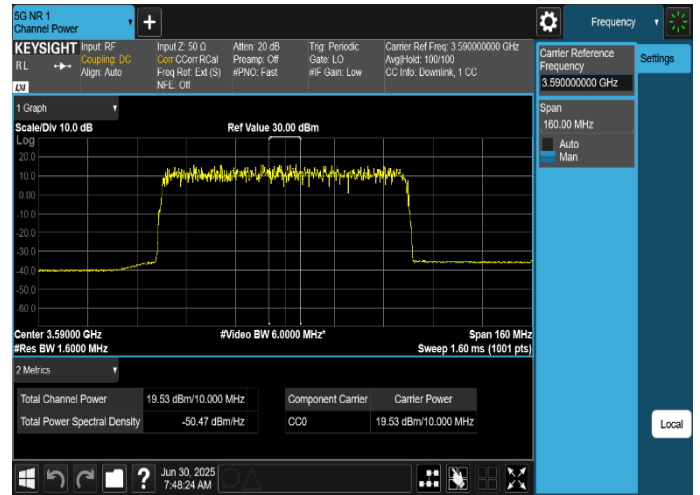
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Plot 8-35. Equivalent Isotropic Radiated Power Plot
(n48_4C_10M+10M+10M+40M_64QAM – Mid Channel, Port 6)



Plot 8-36. Equivalent Isotropic Radiated Power Plot
(n48_1C_80M_256QAM – Low Channel, Port 6)

8.6 Peak To Average Power Ratio (PAPR)

Test Overview

A 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 Procedure Used

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

Test Setting

The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The spectrum analyzer settings were as follows:

1. The signal analyzer's CCDF function is enabled.
2. Frequency = carrier center frequency
3. Measurement BW $\geq$ OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed.
 For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

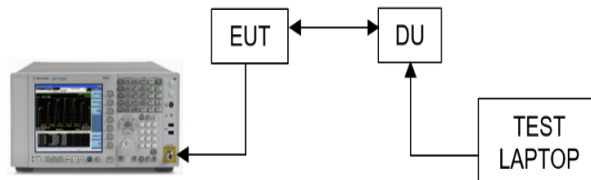


Figure 8-5. Test Instrument & Measurement Setup

Limit

§ 96.41 (g)
 Peak-to-average power ratio (PAPR) limit shall not exceed 13 dB for more than 0.1% of the time.

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Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.28	8.60	8.15	8.27	≤ 13
	1	8.27	8.46	8.05	8.27	
	2	8.27	8.72	8.17	8.28	
	3	8.22	8.89	8.12	8.30	
	4	8.20	8.74	8.19	8.31	
	5	8.28	8.79	8.18	8.31	
	6	8.27	8.72	8.23	8.29	
	7	8.26	8.45	8.26	8.30	
	8	8.40	8.66	8.20	8.29	
	9	8.43	8.72	8.13	8.33	
	10	8.43	8.80	8.12	8.36	
	11	8.39	8.80	8.11	8.33	
	12	8.44	8.83	8.22	8.34	
	13	8.33	8.45	8.22	8.33	
	14	8.29	8.70	8.19	8.33	
	15	8.32	8.85	8.27	8.33	
Mid	0	8.42	8.69	8.33	8.38	
	1	8.42	8.70	8.32	8.39	
	2	8.44	8.72	8.32	8.39	
	3	8.42	8.70	8.28	8.38	
	4	8.45	8.65	8.32	8.39	
	5	8.32	8.50	8.28	8.40	
	6	8.36	8.44	8.32	8.38	
	7	8.34	8.67	8.32	8.38	
	8	8.33	8.62	8.31	8.39	
	9	8.33	8.52	8.29	8.38	
	10	8.43	8.47	8.28	8.39	
	11	8.41	8.53	8.22	8.38	
	12	8.41	8.47	8.05	8.39	
	13	8.41	8.29	8.07	8.39	
	14	8.40	8.45	8.11	8.41	
	15	8.42	8.45	8.05	8.44	
High	0	8.46	8.86	8.20	8.52	
	1	8.43	8.26	8.18	8.33	
	2	8.43	8.38	8.16	8.34	
	3	8.43	8.40	8.18	8.34	
	4	8.45	8.59	8.13	8.32	
	5	8.43	8.76	8.08	8.30	
	6	8.44	8.81	8.06	8.33	
	7	8.44	8.69	8.10	8.32	
	8	8.46	8.84	8.07	8.30	
	9	8.45	8.87	8.06	8.30	
	10	8.43	8.98	8.08	8.29	
	11	8.42	8.84	8.06	8.29	
	12	8.43	8.89	8.09	8.32	
	13	8.42	8.38	8.09	8.34	
	14	8.44	8.60	8.09	8.55	
	15	8.44	8.71	8.15	8.59	

Table 8-26. Peak To Average Power Ratio Summary Data (n48_1C_10M)

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Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.51	8.52	8.35	8.27	≤ 13
	1	8.39	8.49	8.46	8.30	
	2	8.36	8.43	8.52	8.30	
	3	8.33	8.51	8.46	8.26	
	4	8.39	8.49	8.56	8.17	
	5	8.40	8.48	8.36	8.15	
	6	8.42	8.56	8.44	8.09	
	7	8.45	8.67	8.33	8.13	
	8	8.41	8.65	8.43	8.16	
	9	8.29	8.46	8.35	8.25	
	10	8.29	8.49	8.51	8.25	
	11	8.28	8.50	8.44	8.31	
	12	8.30	8.49	8.43	8.18	
	13	8.57	8.46	8.39	8.13	
	14	8.54	8.65	8.30	8.06	
Mid	0	8.20	8.45	8.48	8.21	
	1	8.24	8.68	8.45	8.06	
	2	8.29	8.70	8.45	8.29	
	3	8.29	8.60	8.46	8.30	
	4	8.27	8.67	8.44	8.10	
	5	8.25	8.43	8.48	8.28	
	6	8.26	8.73	8.58	8.23	
	7	8.27	8.70	8.57	8.21	
	8	8.29	8.60	8.46	8.26	
	9	8.26	8.53	8.48	8.14	
	10	8.26	8.48	8.48	8.02	
	11	8.20	8.48	8.46	8.02	
	12	8.29	8.73	8.53	8.23	
	13	8.46	8.46	8.55	8.26	
	14	8.41	8.69	8.48	8.08	
High	0	8.27	8.59	8.47	8.25	
	1	8.29	8.57	8.40	8.13	
	2	8.42	8.44	8.45	8.12	
	3	8.33	8.59	8.47	8.27	
	4	8.27	8.60	8.41	8.09	
	5	8.39	8.58	8.35	8.12	
	6	8.30	8.60	8.28	8.22	
	7	8.41	8.57	8.27	8.08	
	8	8.49	8.57	8.29	8.10	
	9	8.43	8.67	8.25	8.21	
	10	8.30	8.59	8.42	8.24	
	11	8.26	8.73	8.40	8.07	
	12	8.31	8.78	8.44	8.10	
	13	8.58	8.74	8.42	8.13	
	14	8.27	8.73	8.47	8.19	
	15	8.29	8.75	8.53	8.12	

Table 8-27. Peak To Average Power Ratio Summary Data (n48_1C_20M)

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Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.52	8.47	8.39	8.43	≤ 13
	1	8.65	8.46	8.43	8.43	
	2	8.66	8.46	8.44	8.43	
	3	8.76	8.47	8.42	8.41	
	4	8.61	8.49	8.42	8.43	
	5	8.52	8.47	8.43	8.43	
	6	8.51	8.43	8.38	8.42	
	7	8.68	8.49	8.43	8.54	
	8	8.67	8.44	8.43	8.36	
	9	8.66	8.40	8.41	8.45	
	10	8.45	8.40	8.42	8.45	
	11	8.66	8.48	8.44	8.42	
	12	8.75	8.52	8.35	8.45	
	13	8.73	8.50	8.34	8.43	
	14	8.74	8.46	8.31	8.57	
	15	8.81	8.40	8.35	8.54	
Mid	0	8.39	8.49	8.38	8.50	
	1	8.51	8.46	8.35	8.47	
	2	8.59	8.53	8.40	8.51	
	3	8.54	8.41	8.40	8.41	
	4	8.66	8.47	8.26	8.42	
	5	8.43	8.47	8.23	8.47	
	6	8.55	8.42	8.36	8.48	
	7	8.63	8.48	8.37	8.39	
	8	8.61	8.46	8.31	8.49	
	9	8.43	8.45	8.36	8.48	
	10	8.59	8.45	8.42	8.50	
	11	8.67	8.47	8.37	8.51	
	12	8.59	8.46	8.34	8.45	
	13	8.74	8.48	8.32	8.38	
	14	8.55	8.48	8.34	8.37	
	15	8.67	8.48	8.30	8.53	
High	0	8.50	8.45	8.37	8.49	
	1	8.42	8.36	8.36	8.43	
	2	8.45	8.51	8.34	8.49	
	3	8.39	8.47	8.29	8.47	
	4	8.38	8.53	8.25	8.53	
	5	8.46	8.44	8.40	8.53	
	6	8.44	8.50	8.33	8.53	
	7	8.45	8.57	8.34	8.40	
	8	8.53	8.47	8.25	8.41	
	9	8.54	8.46	8.33	8.37	
	10	8.53	8.46	8.33	8.46	
	11	8.52	8.45	8.26	8.54	
	12	8.46	8.48	8.33	8.53	
	13	8.54	8.39	8.38	8.47	
	14	8.52	8.52	8.40	8.54	
	15	8.44	8.50	8.25	8.57	

Table 8-28. Peak To Average Power Ratio Summary Data (n48_1C_30M)

**CTK Co., Ltd.**

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Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.46	8.38	8.44	8.23	≤ 13
	1	8.39	8.39	8.42	8.13	
	2	8.50	8.20	8.44	8.11	
	3	8.56	8.26	8.45	8.39	
	4	8.60	8.23	8.45	8.32	
	5	8.56	8.15	8.43	8.13	
	6	8.47	8.19	8.39	8.18	
	7	8.45	8.16	8.42	8.13	
	8	8.38	8.22	8.46	8.18	
	9	8.44	8.31	8.45	8.13	
	10	8.60	8.21	8.44	8.14	
	11	8.58	8.11	8.44	8.12	
	12	8.55	8.13	8.48	8.13	
	13	8.55	8.18	8.48	8.18	
	14	8.48	8.35	8.57	8.15	
Mid	15	8.40	8.27	8.45	8.32	
	0	8.53	8.25	8.46	8.48	
	1	8.48	8.26	8.42	8.47	
	2	8.53	8.39	8.44	8.38	
	3	8.55	8.18	8.41	8.48	
	4	8.54	8.22	8.42	8.54	
	5	8.57	8.37	8.41	8.46	
	6	8.61	8.19	8.40	8.51	
	7	8.60	8.30	8.39	8.50	
	8	8.53	8.34	8.47	8.54	
	9	8.54	8.17	8.46	8.55	
	10	8.52	8.29	8.57	8.53	
	11	8.52	8.36	8.50	8.52	
	12	8.57	8.42	8.52	8.52	
	13	8.55	8.36	8.46	8.51	
	14	8.54	8.41	8.40	8.45	
High	15	8.48	8.32	8.48	8.51	
	0	8.52	8.22	8.46	8.50	
	1	8.53	8.22	8.54	8.49	
	2	8.55	8.36	8.49	8.41	
	3	8.56	8.39	8.53	8.48	
	4	8.51	8.29	8.52	8.33	
	5	8.53	8.40	8.56	8.45	
	6	8.51	8.36	8.49	8.48	
	7	8.56	8.27	8.39	8.45	
	8	8.44	8.16	8.47	8.45	
	9	8.48	8.17	8.53	8.47	
	10	8.45	8.21	8.47	8.58	
	11	8.48	8.18	8.45	8.47	
	12	8.55	8.19	8.47	8.45	
	13	8.40	8.19	8.49	8.54	
	14	8.44	8.34	8.51	8.54	
	15	8.42	8.20	8.52	8.50	

Table 8-29. Peak To Average Power Ratio Summary Data (n48_1C_40M)

**CTK Co., Ltd.**

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Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.40	8.45	8.44	8.46	≤ 13
	1	8.32	8.39	8.29	8.49	
	2	8.38	8.46	8.47	8.57	
	3	8.45	8.39	8.30	8.49	
	4	8.38	8.36	8.49	8.58	
	5	8.37	8.43	8.27	8.41	
	6	8.36	8.30	8.42	8.55	
	7	8.37	8.57	8.31	8.49	
	8	8.52	8.55	8.29	8.50	
	9	8.32	8.32	8.42	8.56	
	10	8.56	8.49	8.46	8.49	
	11	8.36	8.32	8.33	8.49	
	12	8.61	8.44	8.63	8.45	
	13	8.36	8.31	8.33	8.44	
	14	8.51	8.33	8.34	8.53	
Mid	0	8.30	8.39	8.36	8.42	
	1	8.40	8.39	8.28	8.37	
	2	8.44	8.40	8.41	8.45	
	3	8.41	8.36	8.29	8.35	
	4	8.38	8.42	8.46	8.52	
	5	8.52	8.39	8.26	8.37	
	6	8.33	8.41	8.55	8.44	
	7	8.43	8.41	8.21	8.35	
	8	8.43	8.37	8.27	8.55	
	9	8.32	8.50	8.53	8.59	
	10	8.44	8.34	8.26	8.47	
	11	8.32	8.43	8.54	8.54	
	12	8.43	8.30	8.26	8.48	
	13	8.40	8.44	8.46	8.55	
	14	8.35	8.36	8.29	8.38	
High	0	8.36	8.30	8.48	8.53	
	1	8.34	8.38	8.42	8.53	
	2	8.38	8.34	8.45	8.41	
	3	8.25	8.32	8.37	8.44	
	4	8.38	8.33	8.48	8.45	
	5	8.39	8.41	8.31	8.42	
	6	8.36	8.25	8.53	8.46	
	7	8.31	8.28	8.22	8.54	
	8	8.48	8.53	8.32	8.58	
	9	8.46	8.45	8.46	8.51	
	10	8.45	8.44	8.27	8.55	
	11	8.47	8.38	8.46	8.60	
	12	8.52	8.49	8.41	8.43	
	13	8.38	8.30	8.39	8.59	
	14	8.38	8.37	8.38	8.58	
	15	8.42	8.32	8.41	8.57	

Table 8-30. Peak To Average Power Ratio Summary Data (n48_2C_20M+30M)

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Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.42	8.36	8.38	8.38	≤ 13
	1	8.38	8.34	8.38	8.34	
	2	8.42	8.34	8.44	8.42	
	3	8.40	8.34	8.44	8.38	
	4	8.42	8.40	8.46	8.36	
	5	8.42	8.34	8.44	8.38	
	6	8.42	8.38	8.40	8.40	
	7	8.42	8.36	8.40	8.38	
	8	8.38	8.38	8.44	8.38	
	9	8.42	8.38	8.40	8.44	
	10	8.40	8.36	8.44	8.42	
	11	8.40	8.38	8.42	8.42	
	12	8.42	8.38	8.44	8.38	
	13	8.40	8.38	8.44	8.42	
	14	8.40	8.40	8.42	8.40	
Mid	15	8.42	8.40	8.42	8.46	
	0	8.33	8.25	8.38	8.37	
	1	8.34	8.27	8.39	8.38	
	2	8.34	8.23	8.45	8.38	
	3	8.33	8.28	8.34	8.35	
	4	8.33	8.29	8.36	8.29	
	5	8.34	8.29	8.47	8.23	
	6	8.33	8.30	8.47	8.23	
	7	8.34	8.23	8.49	8.35	
	8	8.34	8.27	8.40	8.37	
	9	8.32	8.25	8.46	8.37	
	10	8.33	8.33	8.42	8.37	
	11	8.33	8.34	8.32	8.32	
	12	8.33	8.29	8.40	8.37	
	13	8.32	8.30	8.32	8.34	
	14	8.32	8.29	8.38	8.26	
High	15	8.35	8.31	8.41	8.37	
	0	8.32	8.28	8.38	8.37	
	1	8.34	8.36	8.36	8.35	
	2	8.35	8.25	8.46	8.33	
	3	8.34	8.23	8.46	8.41	
	4	8.37	8.25	8.46	8.34	
	5	8.31	8.25	8.47	8.32	
	6	8.34	8.32	8.42	8.41	
	7	8.31	8.29	8.42	8.40	
	8	8.34	8.25	8.37	8.36	
	9	8.33	8.27	8.44	8.32	
	10	8.37	8.29	8.43	8.30	
	11	8.36	8.30	8.39	8.26	
	12	8.33	8.25	8.46	8.29	
	13	8.32	8.26	8.46	8.26	
	14	8.35	8.28	8.33	8.34	
	15	8.32	8.29	8.33	8.26	

Table 8-31. Peak To Average Power Ratio Summary Data (n48_1C_60M)

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Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.43	8.44	8.35	8.50	≤ 13
	1	8.45	8.45	8.30	8.53	
	2	8.40	8.51	8.38	8.44	
	3	8.37	8.41	8.40	8.42	
	4	8.37	8.38	8.42	8.53	
	5	8.51	8.35	8.30	8.39	
	6	8.41	8.46	8.36	8.53	
	7	8.29	8.54	8.37	8.57	
	8	8.31	8.41	8.32	8.55	
	9	8.37	8.52	8.38	8.39	
	10	8.43	8.35	8.37	8.47	
	11	8.41	8.40	8.29	8.46	
	12	8.44	8.37	8.35	8.55	
	13	8.44	8.36	8.38	8.40	
	14	8.37	8.49	8.36	8.41	
Mid	15	8.39	8.45	8.32	8.48	
	0	8.44	8.38	8.40	8.44	
	1	8.46	8.40	8.36	8.44	
	2	8.46	8.38	8.44	8.44	
	3	8.50	8.46	8.44	8.42	
	4	8.46	8.46	8.42	8.42	
	5	8.50	8.38	8.40	8.48	
	6	8.48	8.40	8.40	8.42	
	7	8.48	8.36	8.38	8.48	
	8	8.48	8.42	8.42	8.52	
	9	8.48	8.46	8.44	8.44	
	10	8.48	8.44	8.40	8.44	
	11	8.44	8.46	8.42	8.40	
	12	8.46	8.42	8.44	8.50	
	13	8.52	8.40	8.38	8.40	
	14	8.44	8.40	8.44	8.44	
High	15	8.50	8.46	8.36	8.46	
	0	8.50	8.54	8.54	8.41	
	1	8.41	8.41	8.35	8.56	
	2	8.33	8.40	8.57	8.46	
	3	8.35	8.46	8.29	8.46	
	4	8.47	8.42	8.34	8.42	
	5	8.35	8.28	8.38	8.55	
	6	8.39	8.52	8.34	8.39	
	7	8.41	8.37	8.40	8.45	
	8	8.31	8.39	8.46	8.39	
	9	8.36	8.54	8.23	8.52	
	10	8.32	8.46	8.42	8.38	
	11	8.30	8.27	8.48	8.41	
	12	8.44	8.43	8.41	8.43	
	13	8.42	8.47	8.26	8.55	
	14	8.33	8.45	8.44	8.41	
	15	8.35	8.44	8.37	8.48	

Table 8-32. Peak To Average Power Ratio Summary Data (n48_4C_10M+10M+10M+40M)

**CTK Co., Ltd.**

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Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.02	8.18	8.18	8.14	≤ 13
	1	8.02	8.12	8.16	8.12	
	2	8.04	8.16	8.14	8.12	
	3	8.10	8.12	8.18	8.14	
	4	8.00	8.14	8.16	8.14	
	5	8.12	8.14	8.18	8.12	
	6	8.14	8.18	8.22	8.12	
	7	8.14	8.14	8.16	8.12	
	8	8.14	8.18	8.20	8.12	
	9	8.12	8.10	8.16	8.12	
	10	8.16	8.14	8.18	8.14	
	11	8.10	8.16	8.18	8.12	
	12	8.14	8.14	8.18	8.14	
	13	8.14	8.18	8.16	8.12	
	14	8.12	8.16	8.20	8.12	
	15	8.12	8.18	8.16	8.12	
Mid	0	8.06	8.06	8.17	8.11	
	1	8.07	8.08	8.19	8.09	
	2	8.07	8.06	8.10	8.08	
	3	8.09	8.10	8.14	8.08	
	4	8.10	8.10	8.18	8.10	
	5	8.07	8.09	8.17	8.07	
	6	8.09	8.12	8.19	8.05	
	7	8.11	8.07	8.11	8.07	
	8	8.11	8.12	8.10	8.10	
	9	8.10	8.07	8.15	8.07	
	10	8.10	8.09	8.17	8.05	
	11	8.09	8.09	8.17	8.10	
	12	8.10	8.06	8.12	8.08	
	13	8.11	8.12	8.12	8.11	
	14	8.09	8.08	8.18	8.08	
	15	8.09	8.09	8.17	8.06	
High	0	8.07	8.09	8.19	8.09	
	1	8.09	8.09	8.14	8.07	
	2	8.07	8.10	8.16	8.10	
	3	8.09	8.11	8.15	8.07	
	4	8.15	8.09	8.18	8.07	
	5	8.05	8.09	8.17	8.11	
	6	8.10	8.08	8.16	8.06	
	7	8.06	8.06	8.17	8.08	
	8	8.08	8.12	8.15	8.09	
	9	8.05	8.06	8.17	8.07	
	10	8.08	8.10	8.13	8.09	
	11	8.09	8.09	8.10	8.09	
	12	8.09	8.10	8.13	8.06	
	13	8.08	8.10	8.15	8.10	
	14	8.12	8.10	8.14	8.09	
	15	8.08	8.09	8.18	8.06	

Table 8-33. Peak To Average Power Ratio Summary Data (n48_1C_80M)