

Samsung MT3204-48A

EIRP Test result

APR.26.2019
Samsung Electronics CO.LTD.

EIRP Test result summary

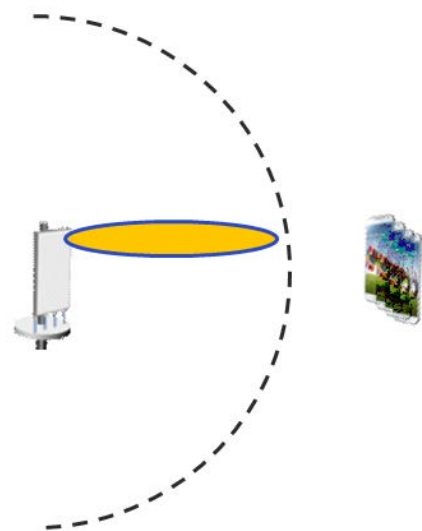
- EIRP test result show that our 32T CBRS product satisfy the FCC limit (37 dBm/MHz)

EIRP_TEST	Number of allocated layers	Allocated UE(s)	Allocated MCS	Test result PSD (dbm/MHz)
1	1	UE 0	0 (QPSK)	36.847
2	1	UE 0	7 (16QAM)	36.963
3	1	UE 0	15 (64 QAM)	36.734
4	1	UE 0	27 (256 QAM)	36.770
5	8(Nearby 8UE case)	UE 0, UE 1, ... UE 7	0 (QPSK)	33.911
6	8(Nearby 8UE case)	UE 0, UE 1, ... UE 7	7 (16QAM)	33.857
7	8(Nearby 8UE case)	UE 0, UE 1, ... UE 7	15 (64 QAM)	34.665
8	8(Nearby 8UE case)	UE 0, UE 1, ... UE 7	27 (256 QAM)	33.999
9	8(Distributed 8UE case)	UE 0, UE 1, ... UE 7	0 (QPSK)	35.724
10	8(Distributed 8UE case)	UE 0, UE 1, ... UE 7	7 (16QAM)	35.725
11	8(Distributed 8UE case)	UE 0, UE 1, ... UE 7	15 (64 QAM)	34.676
12	8(Distributed 8UE case)	UE 0, UE 1, ... UE 7	27 (256 QAM)	35.675

EIRP Test setup

- Each test is planned if the UE is near and far from each other. The location for the test UE is as follows

Nearby 8UE case



Distributed 8UE case



Nearby 8UE location

TEST_UE_ID		0	1	2	3	4	5	6	7
UE Angle	H (degree)	0	1	2	3	-1	-2	-3	-4
	V (degree)	0	0	0	0	0	0	0	0

Distributed 8UE location

TEST_UE_ID		0	1	2	3	4	5	6	7
UE Angle	H (degree)	-30	30	-45	-15	15	45	-30	30
	V (degree)	-20	-20	0	0	0	0	20	20

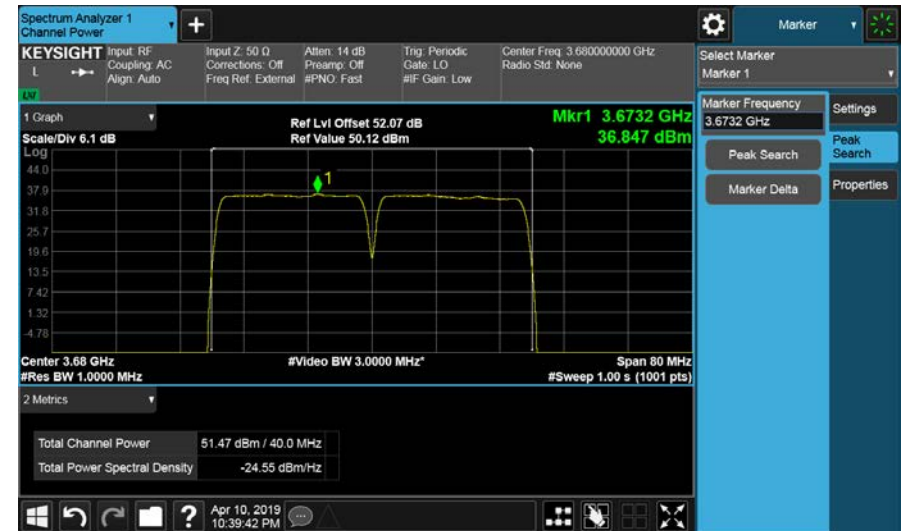
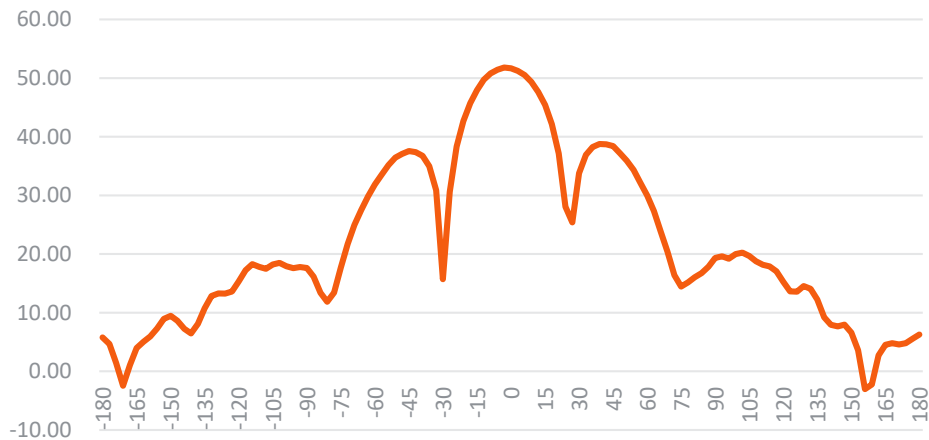
UE 0 Test result _ QPSK

- PSD result : 36.847 dBm/Mhz



Microsoft Excel
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Channel power

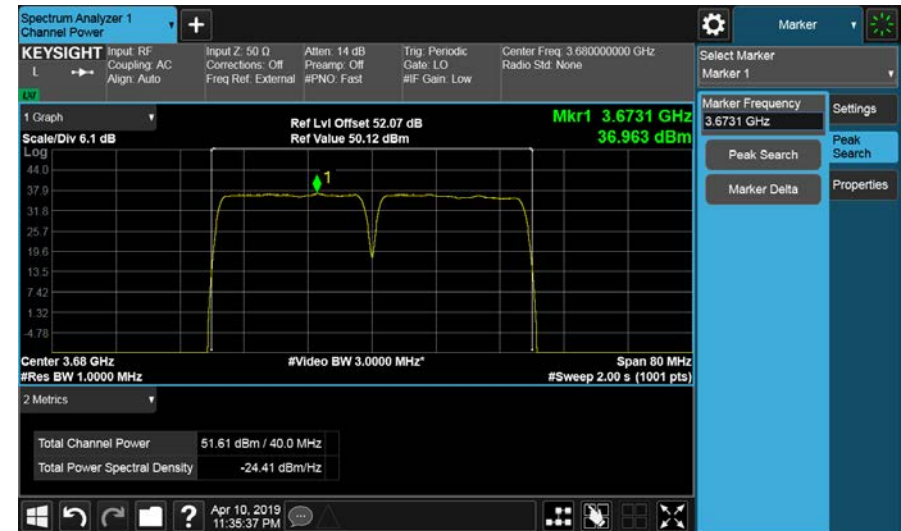
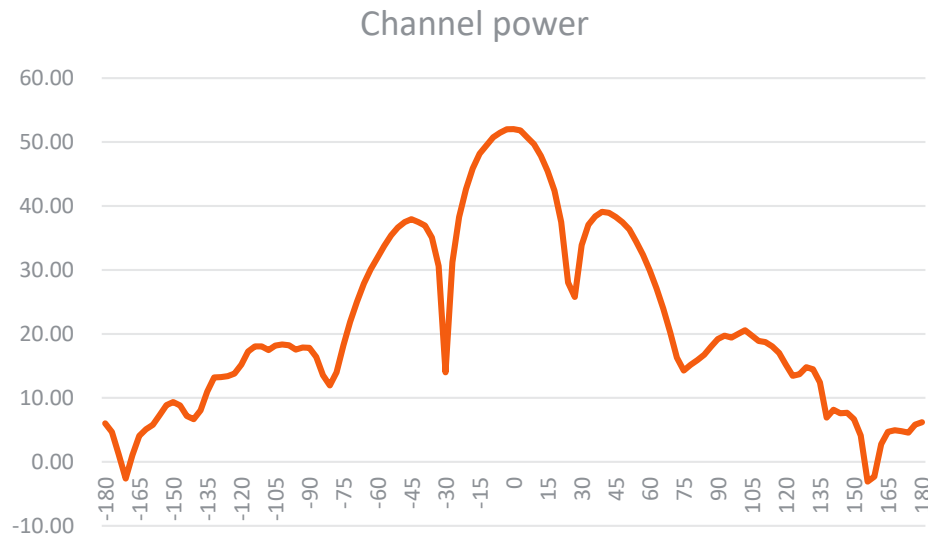


UE 0 Test result _ 16QAM

- PSD result : 36.963 dBm/Mhz



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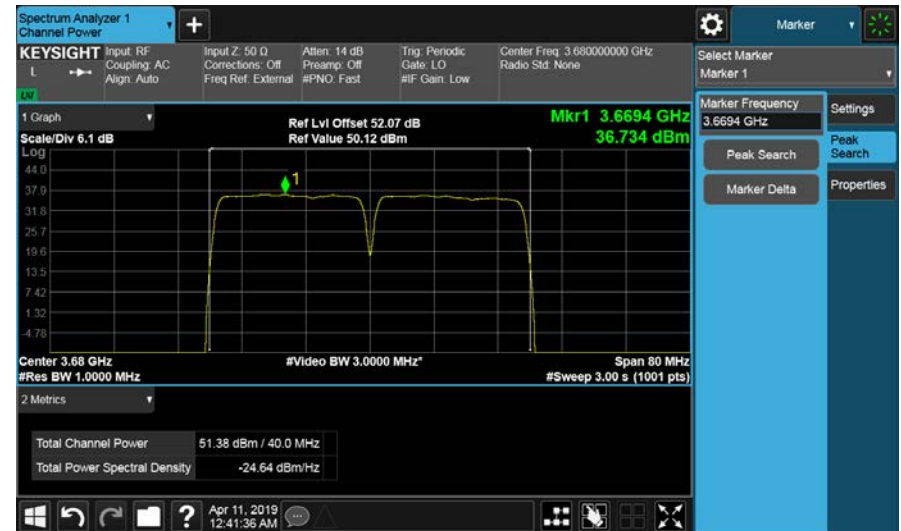
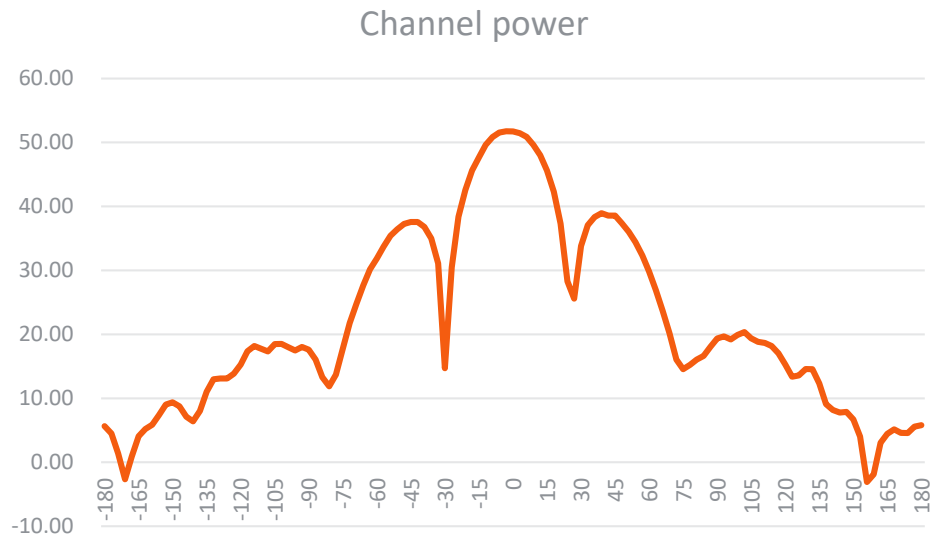


UE 0 Test result _ 64QAM

- PSD result : 36.734 dBm/Mhz



Microsoft Excel
2010

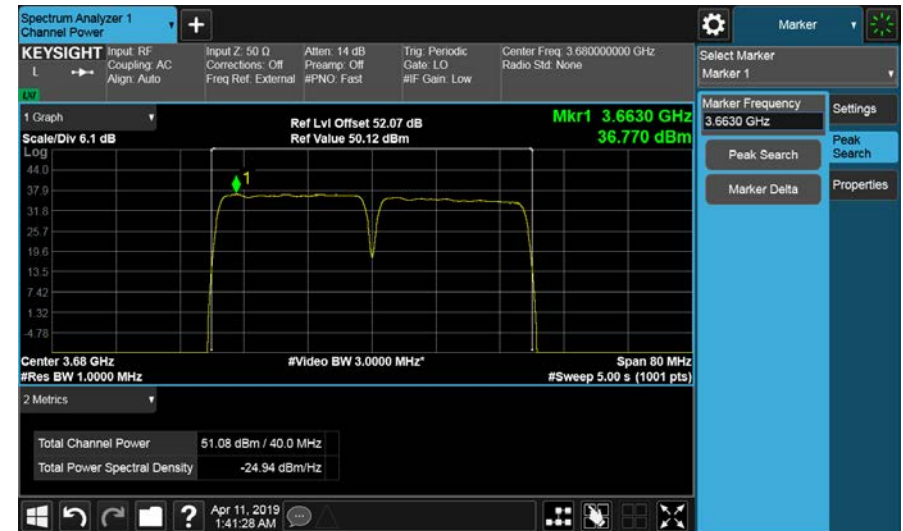
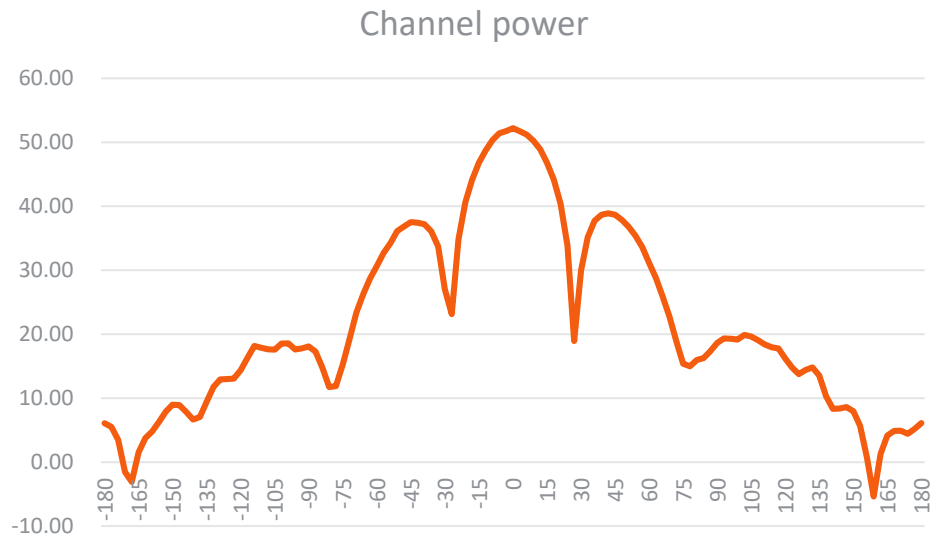


UE 0 Test result _ 256QAM

- PSD result : 36.770 dBm/Mhz



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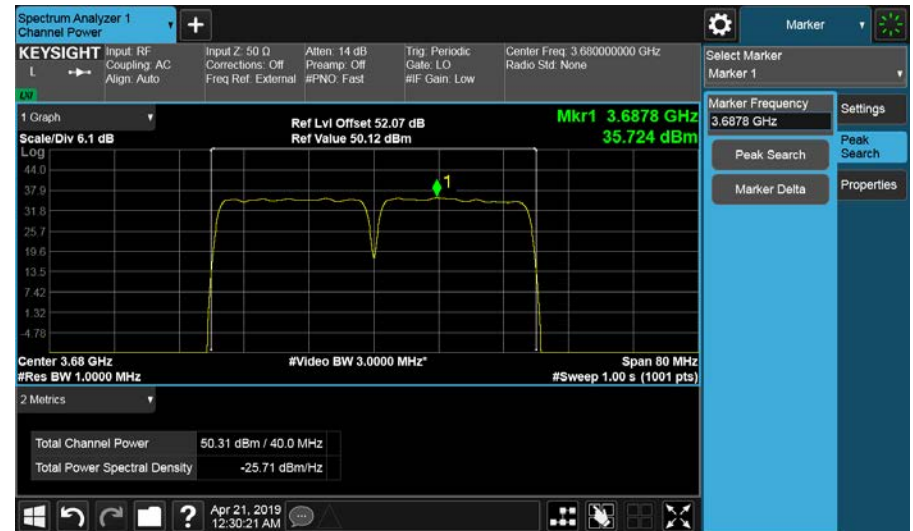
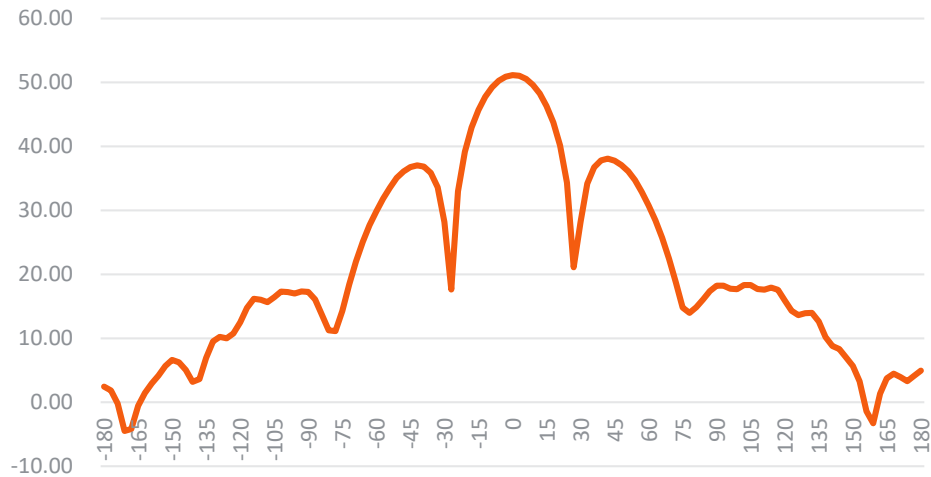
Nearby 8UE case_QPSK

- PSD result : 35.724 dBm/Mhz



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Channel power

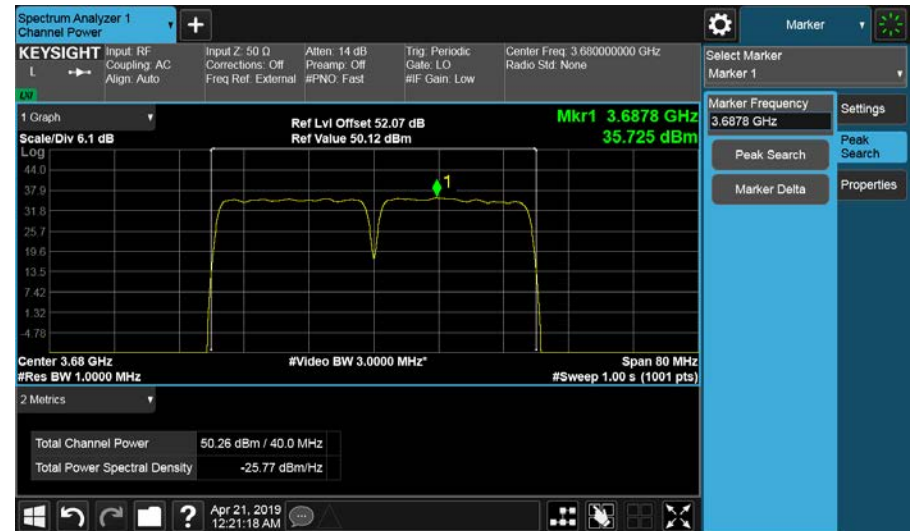
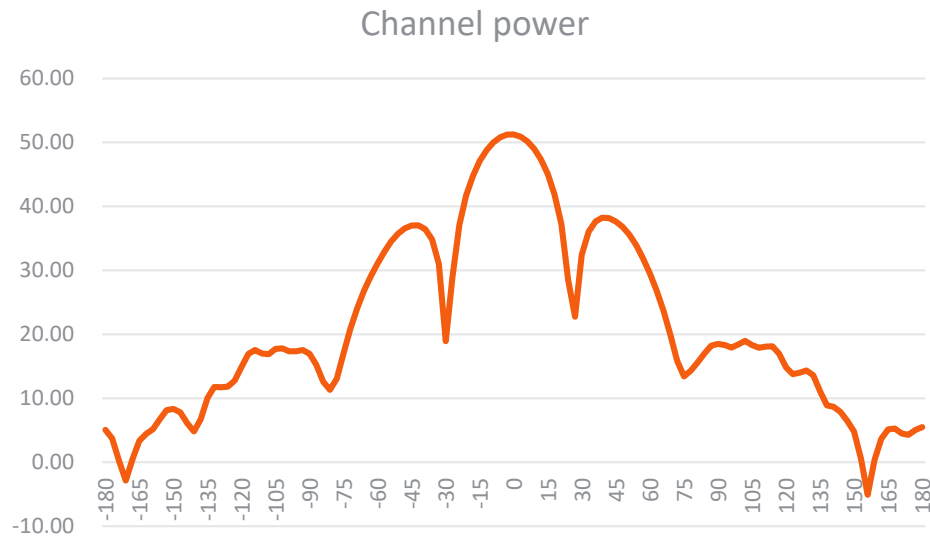


Nearby 8UE case_16QAM

- PSD result : 35.725 dBm/Mhz



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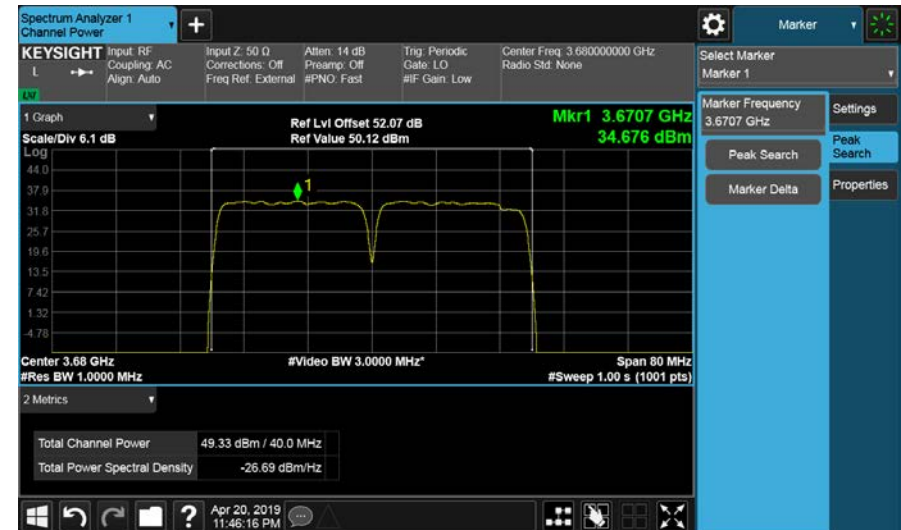
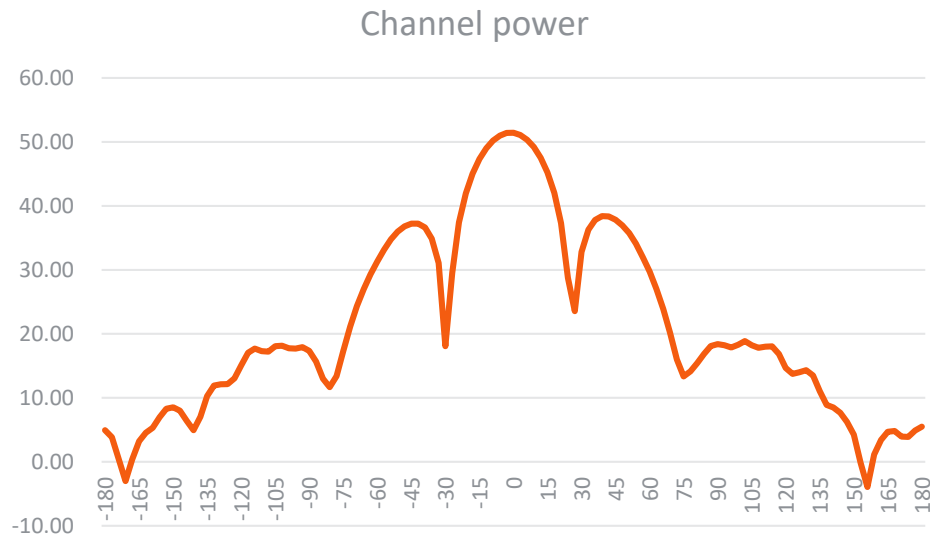


Nearby 8UE case_64QAM

- PSD result : 34.676 dBm/Mhz



Microsoft Excel
2010

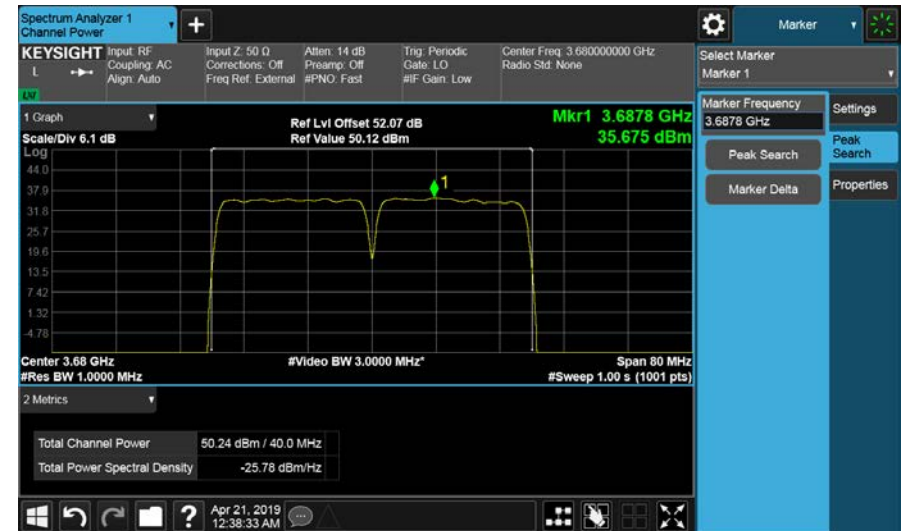
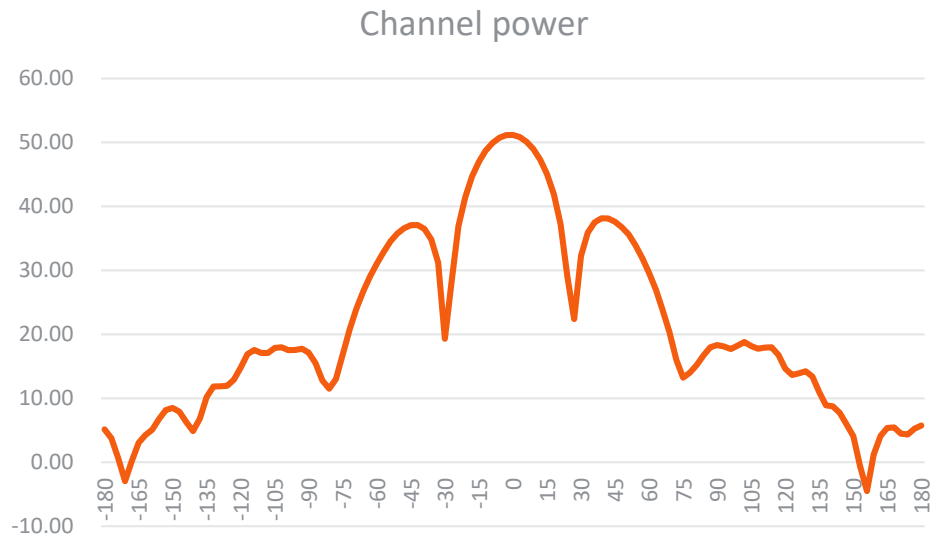


Nearby 8UE case_256QAM

- PSD result : 35.675 dBm/Mhz



Microsoft Excel
2010

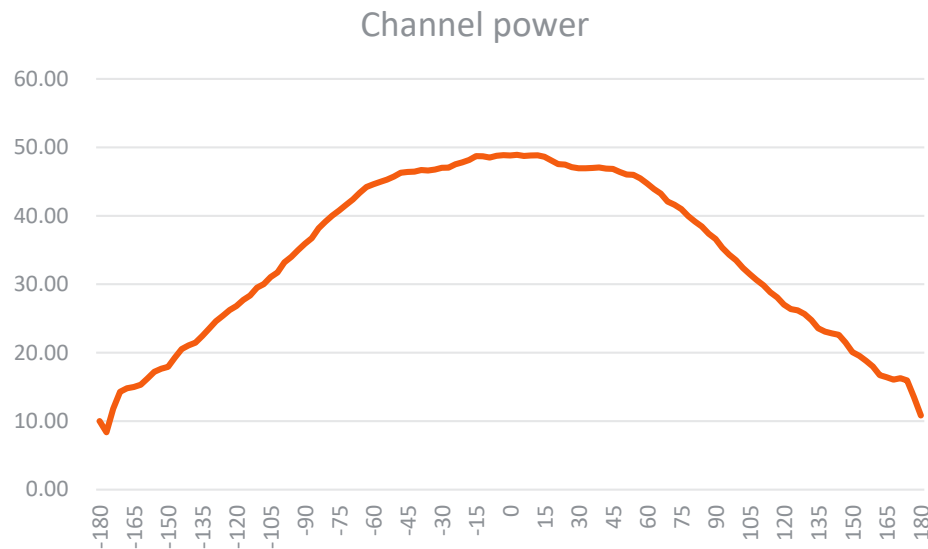


Distributed 8UE case_QPSK

- PSD result : 33.911 dBm/Mhz



Microsoft Excel
2016

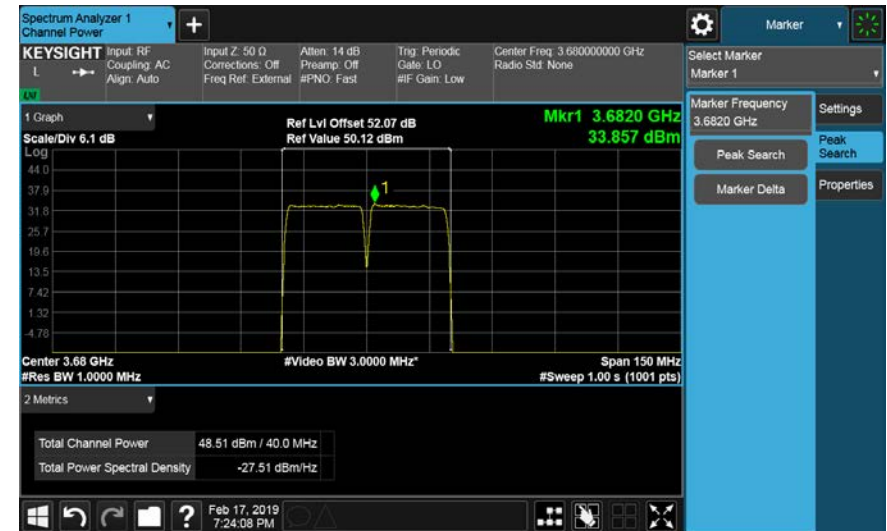
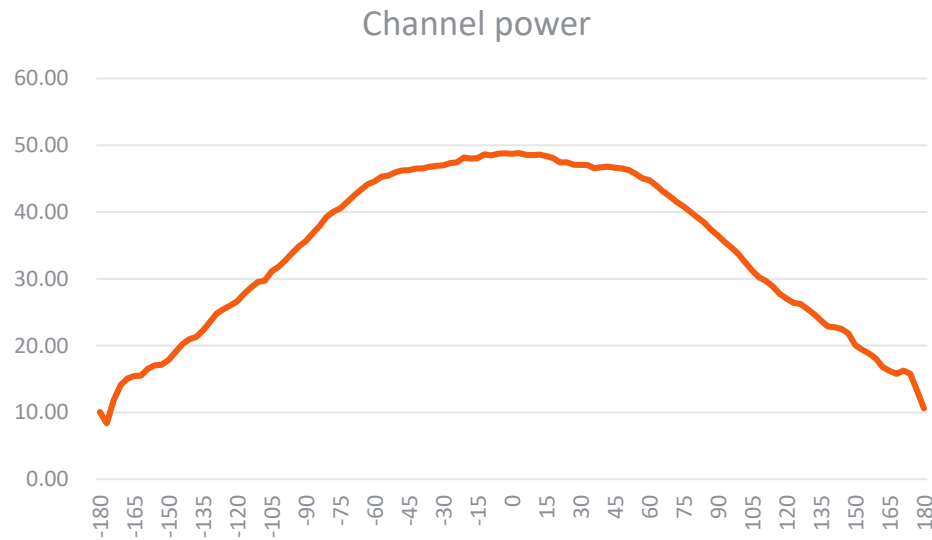


Distributed 8UE case_16QAM

- PSD result : 33.857 dBm/Mhz



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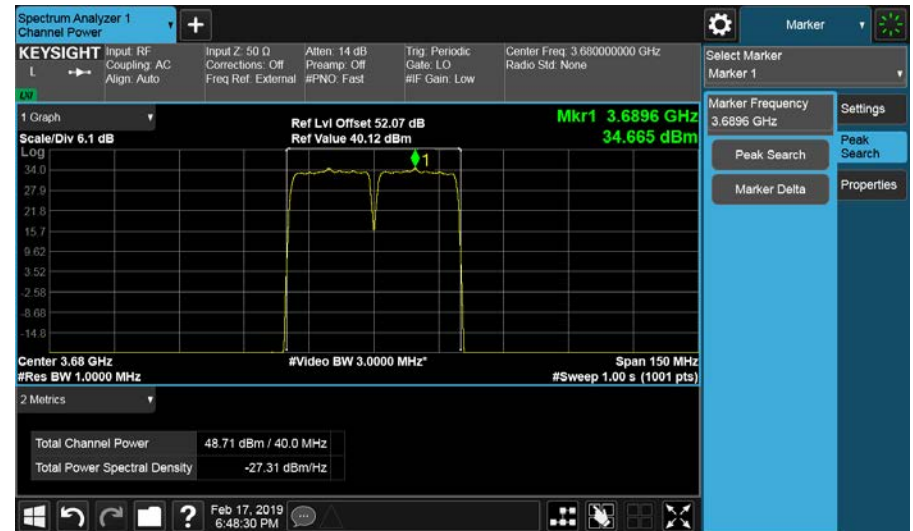
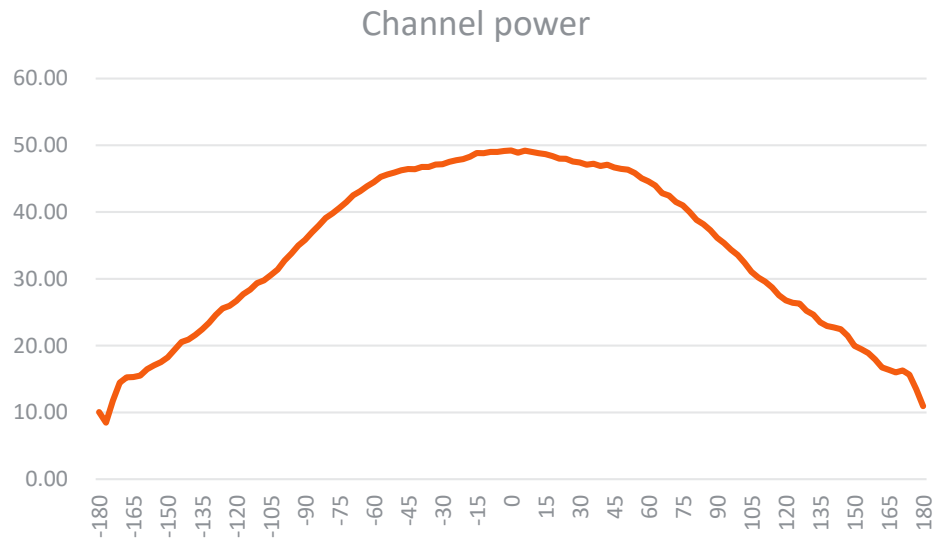


Distributed 8UE case_64QAM

- PSD result : 34.665 dBm/Mhz



Microsoft Excel
Microsoft Excel

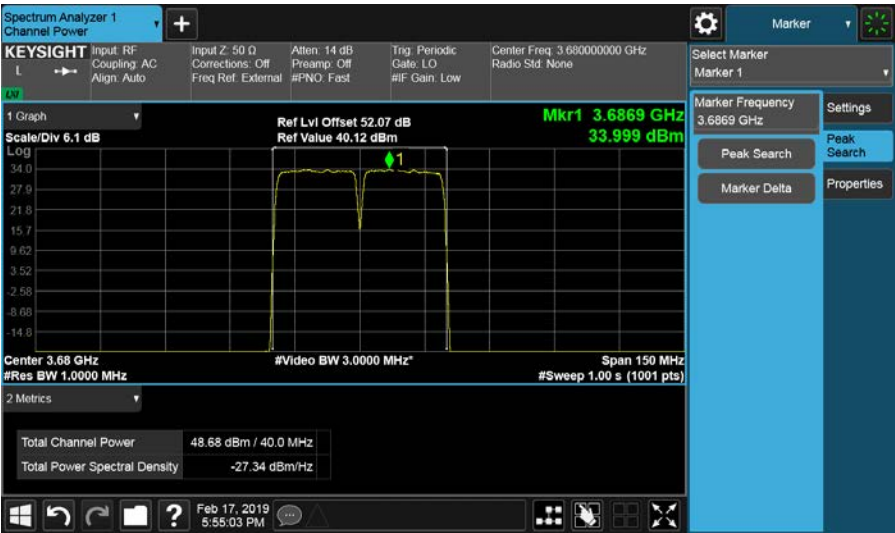
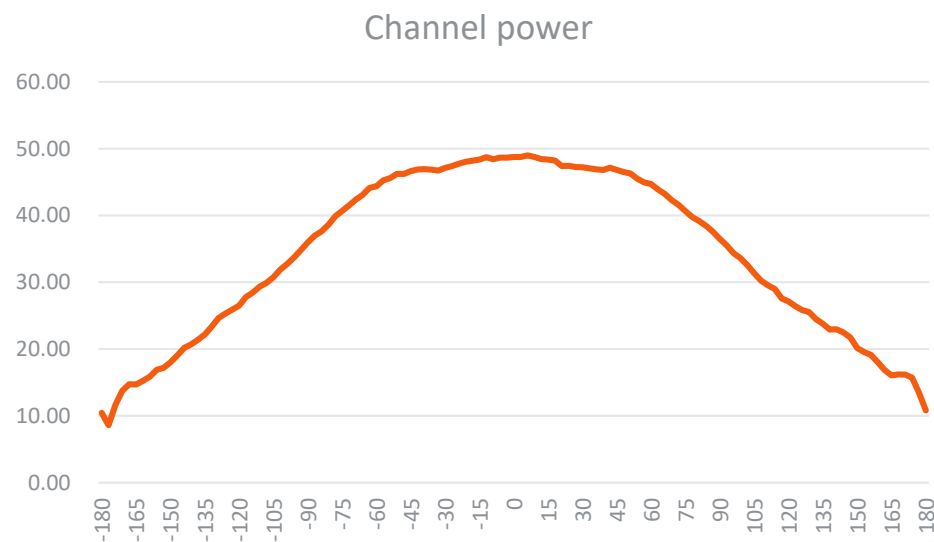


Distributed 8UE case_256QAM

- PSD result : 33.999 dBm/Mhz



Microsoft Excel
Microsoft Excel



Thank you
Networks Business