

# **Samsung MT3204-48A**

## **EIRP Test result**

**APR.26.2019**  
**Samsung Electronics CO.LTD.**

# EIRP Test result summary

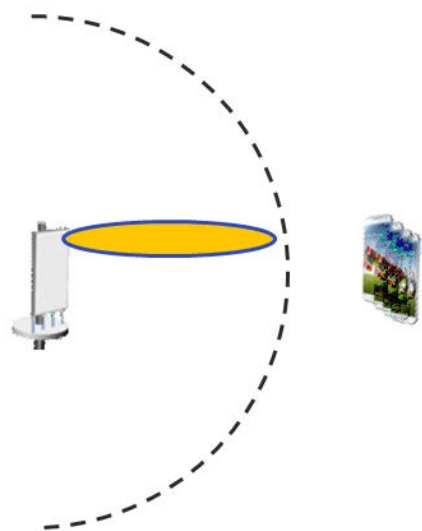
- EIRP test result show that our 32T CBRS product satisfy the FCC limit ( 37 dBm/MHz)

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

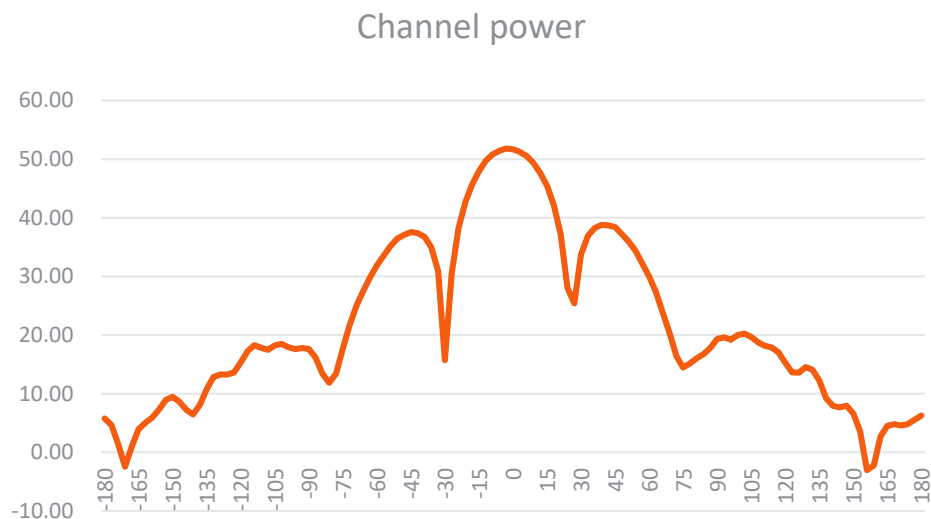
TEST_UE_ID		0	1	2	3	4	5	6	7
UE Angle	H (degree)	-30	30	-45	-15	15	45	-30	30
	V (degree)	-20	-20	0	0	0	0	20	20

# UE 0 Test result \_ QPSK

- PSD result : 36.847 dBm/Mhz



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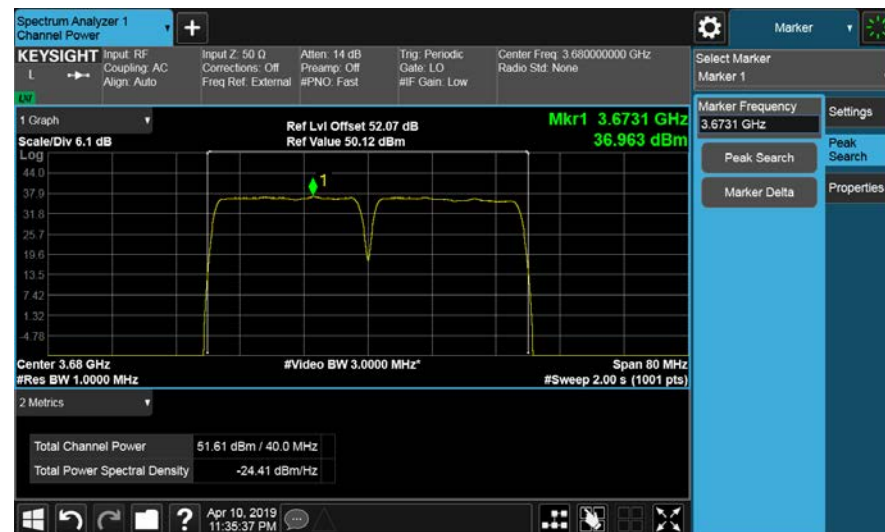
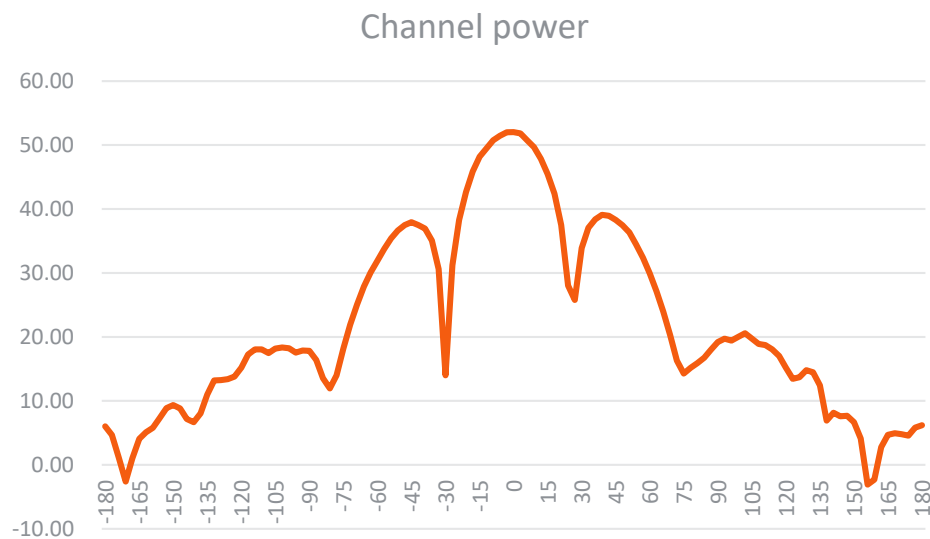


# UE 0 Test result \_ 16QAM

- PSD result : 36.963 dBm/Mhz



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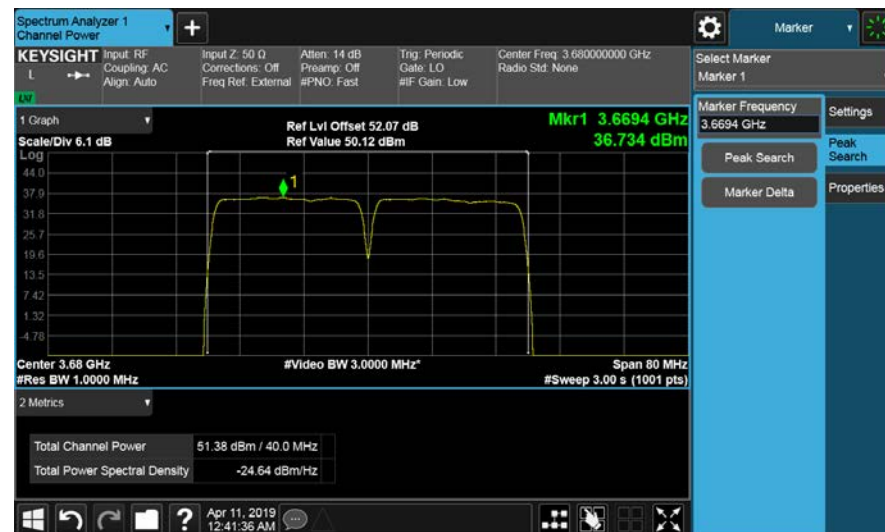
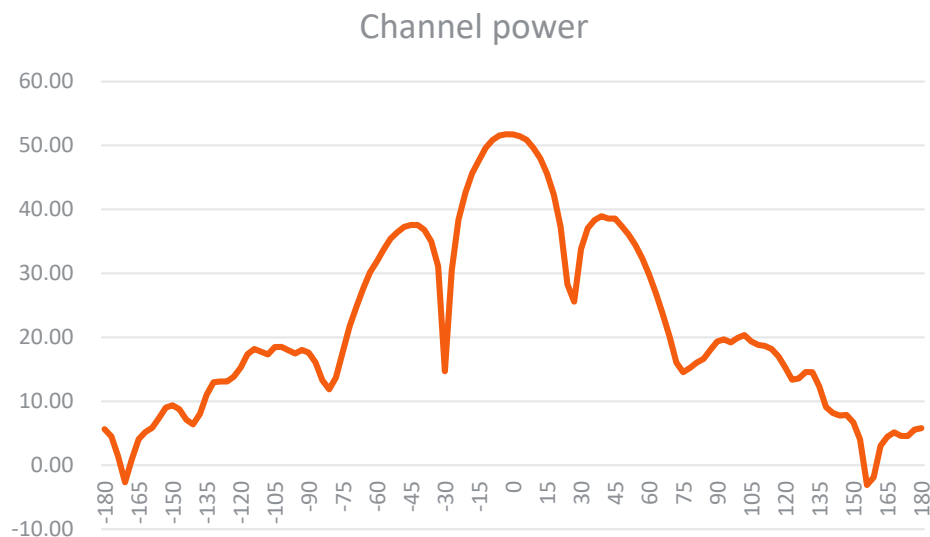


# UE 0 Test result \_ 64QAM

- PSD result : 36.734 dBm/Mhz



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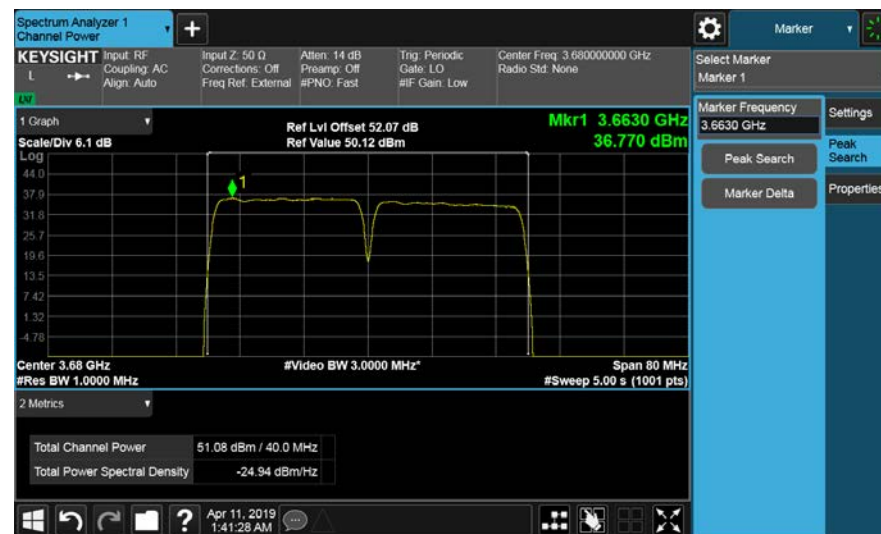
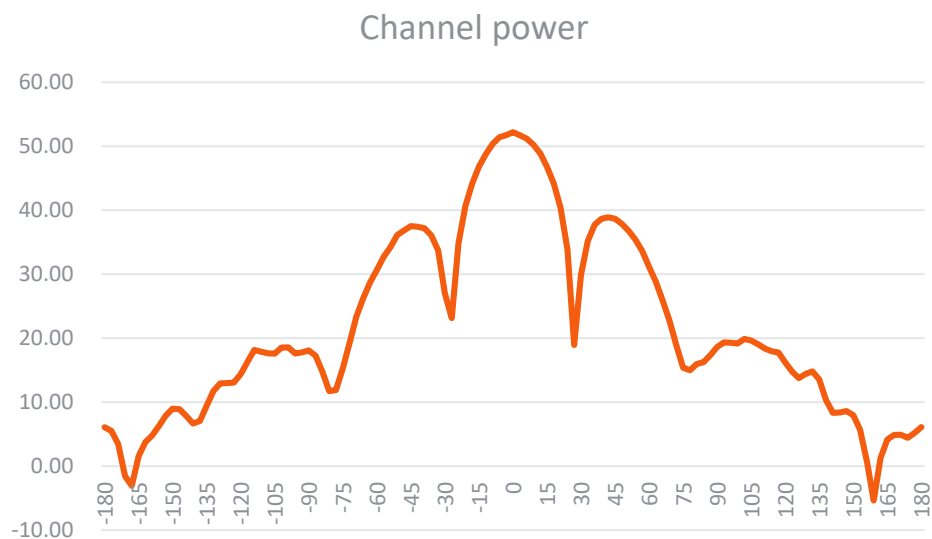


# UE 0 Test result \_ 256QAM

- PSD result : 36.770 dBm/Mhz



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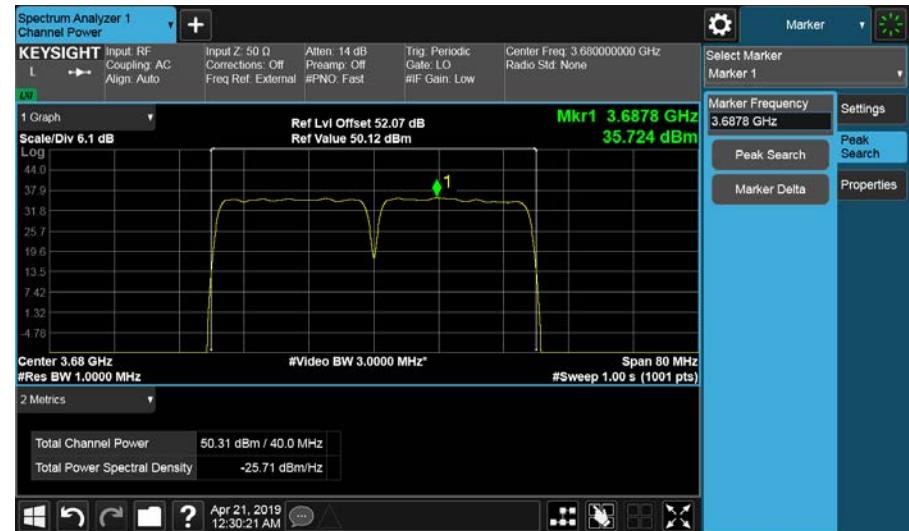
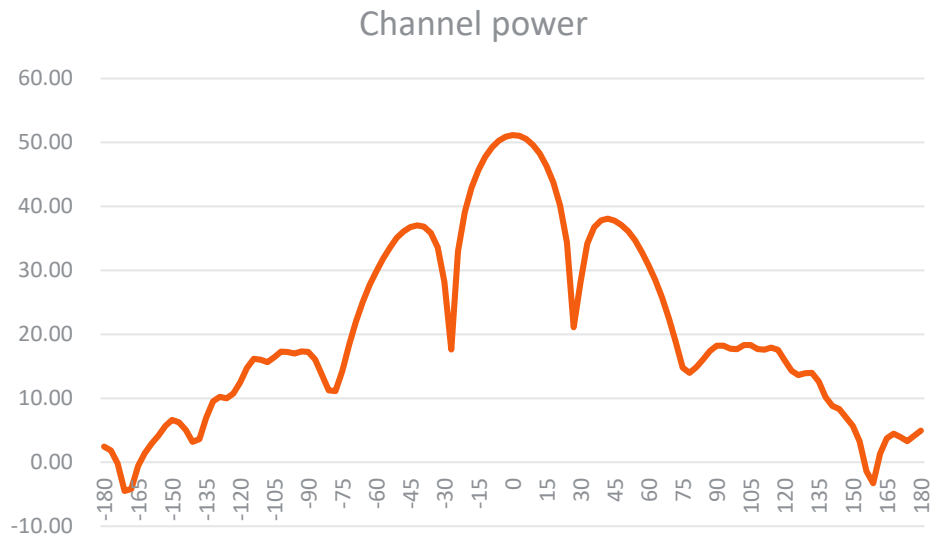


# Nearby 8UE case\_QPSK

- PSD result : 35.724 dBm/Mhz



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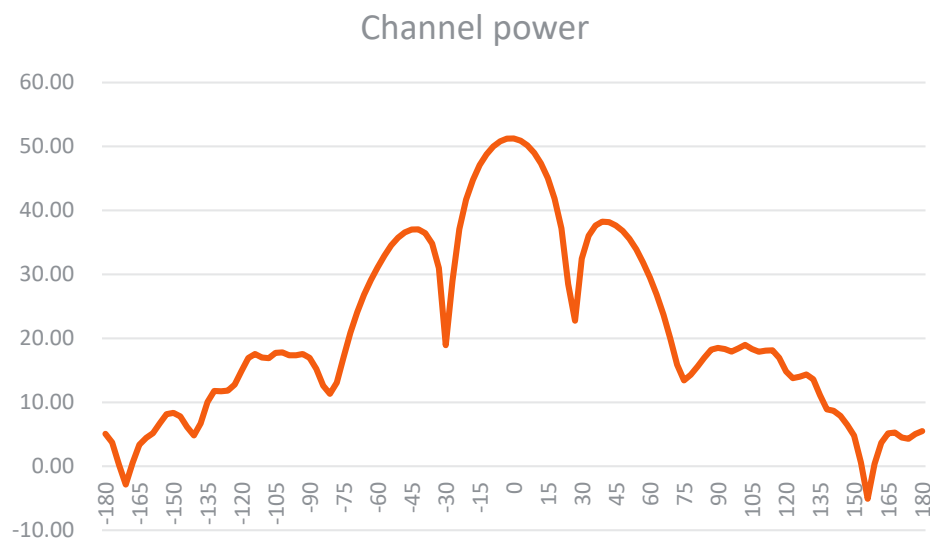


# Nearby 8UE case\_16QAM

- PSD result : 35.725 dBm/Hz



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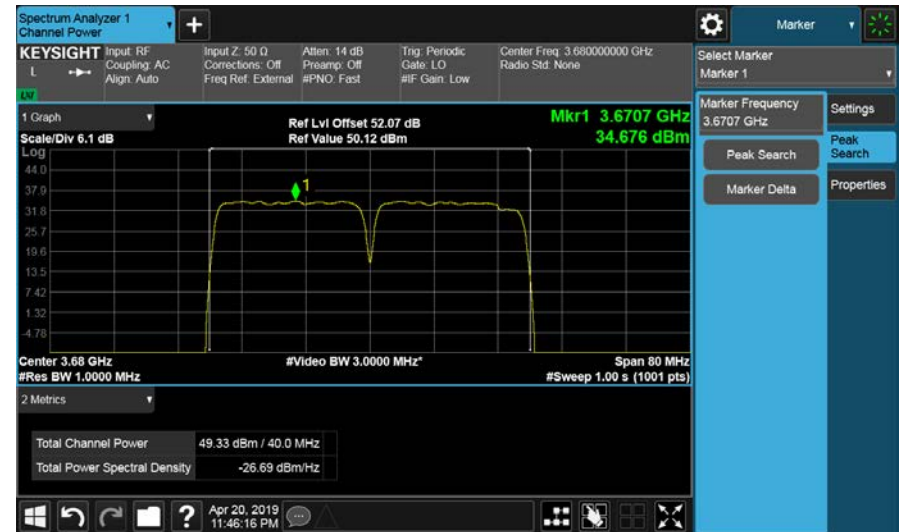
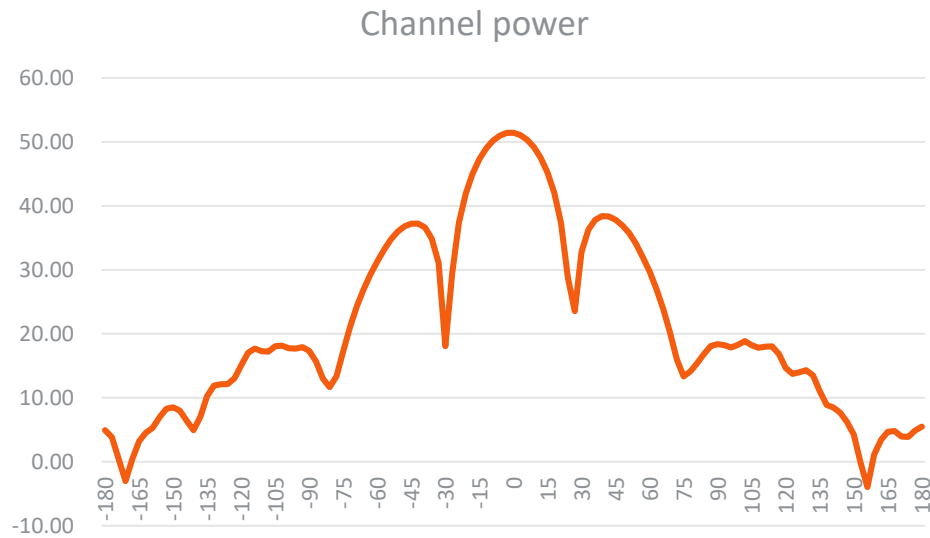


# Nearby 8UE case\_64QAM

- PSD result : 34.676 dBm/Mhz



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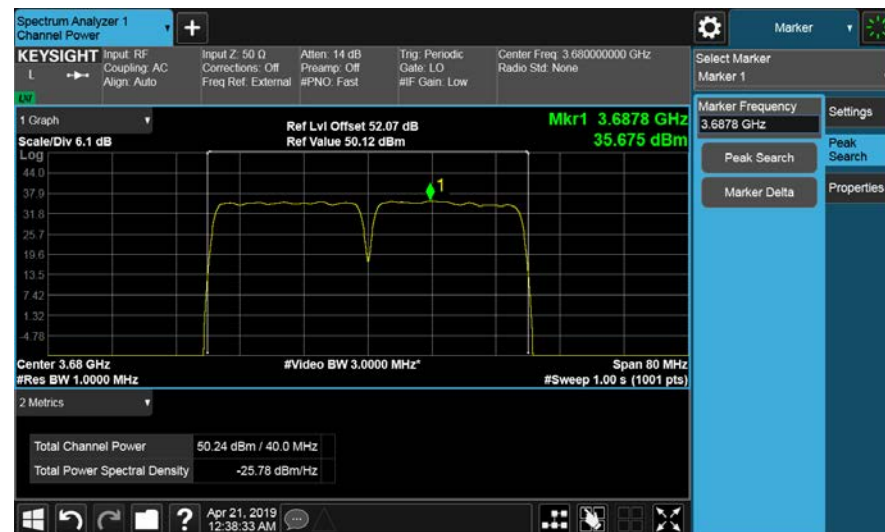
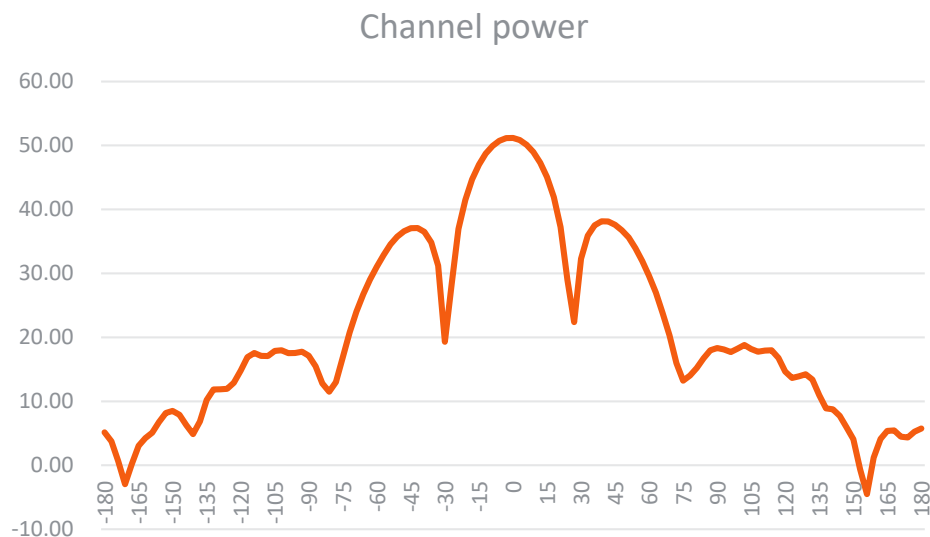


# Nearby 8UE case\_256QAM

- PSD result : 35.675 dBm/Mhz



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2016



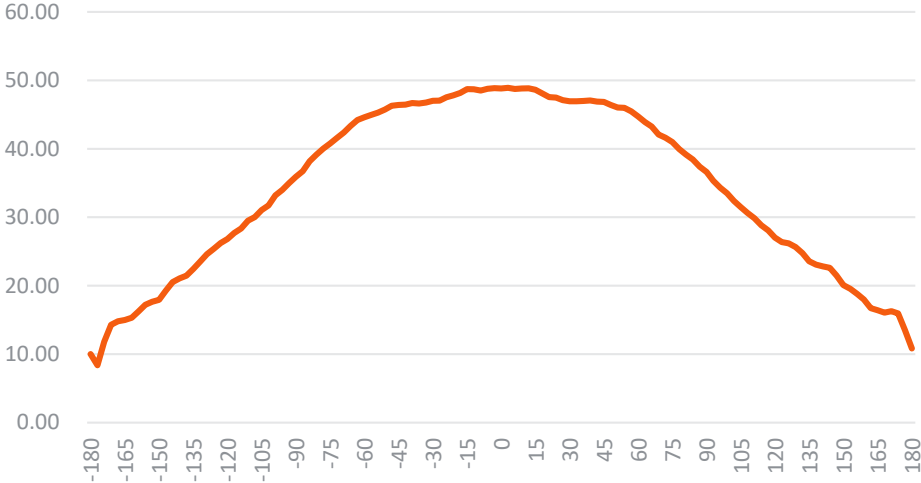
# Distributed 8UE case\_QPSK

- PSD result : 33.911 dBm/Mhz



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Channel power

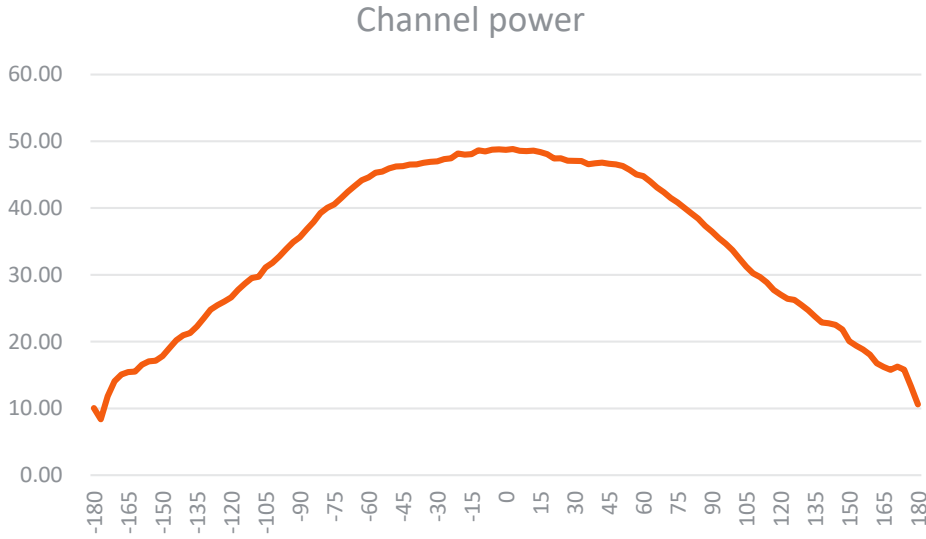


# Distributed 8UE case\_16QAM

- PSD result : 33.857 dBm/Mhz



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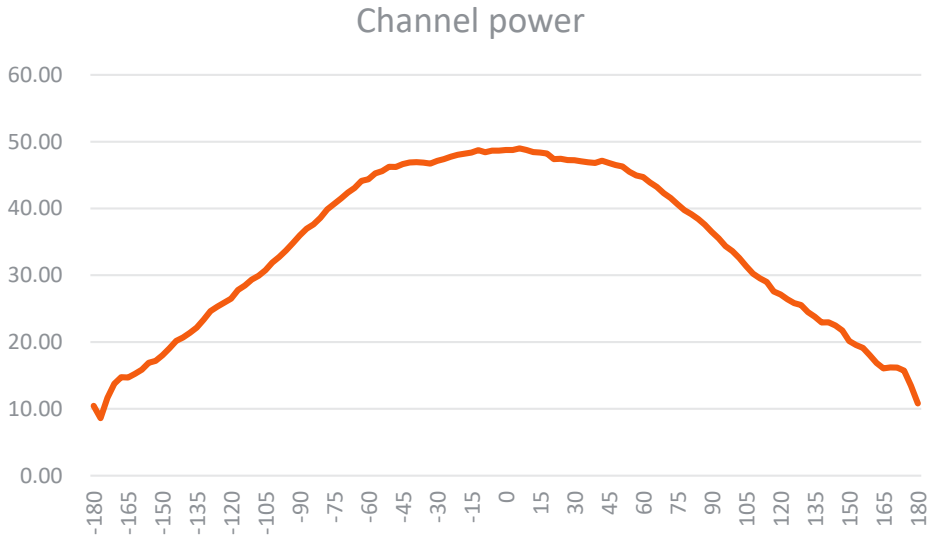


# Distributed 8UE case\_256QAM

- PSD result : 33.999 dBm/Mhz



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**Thank you**  
Networks Business