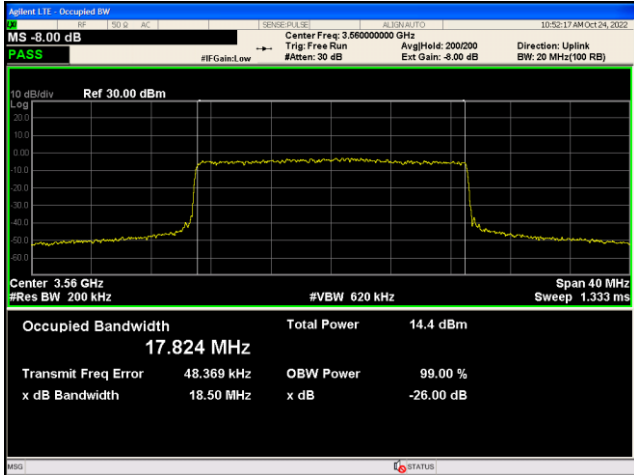


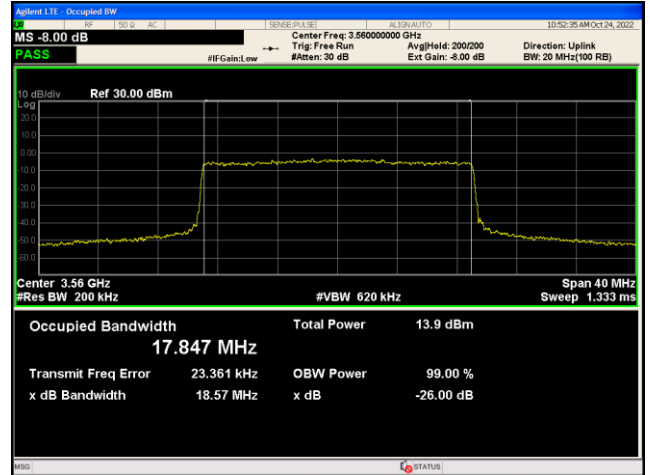
LTE Band 48:
BW: 20MHz QPSK

ANT 1

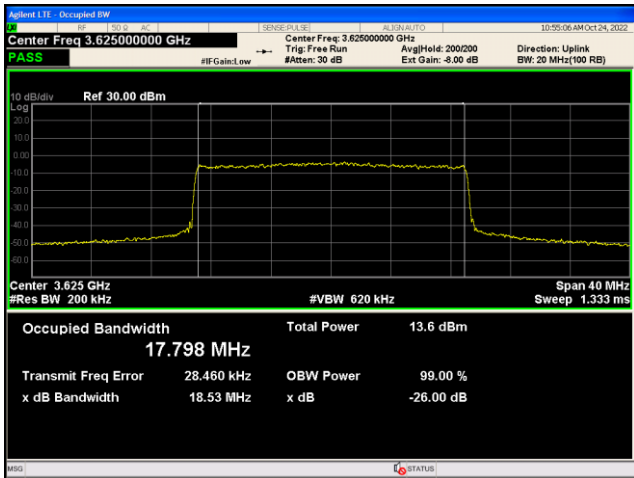
ANT 3



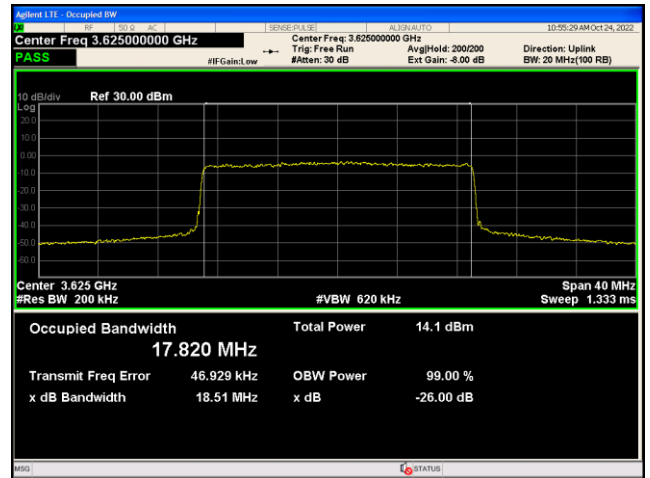
Lowest channel



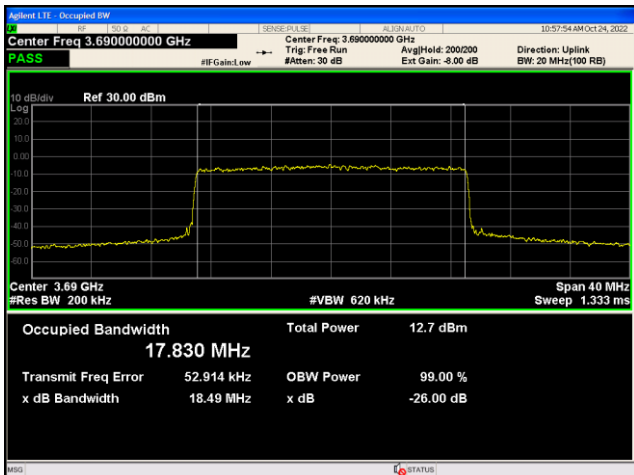
Lowest channel



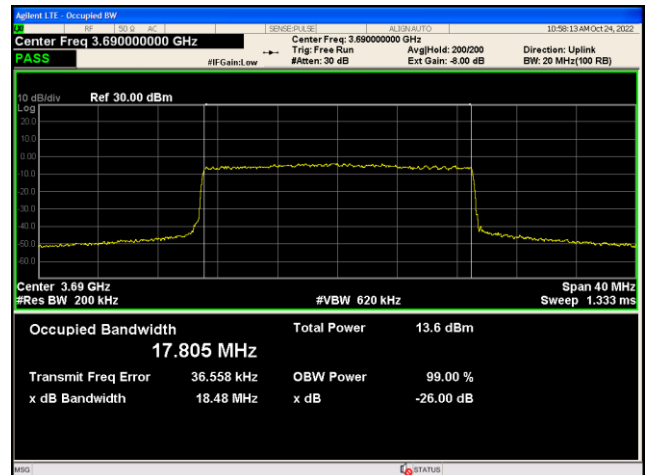
Middle channel



Middle channel



Highest channel

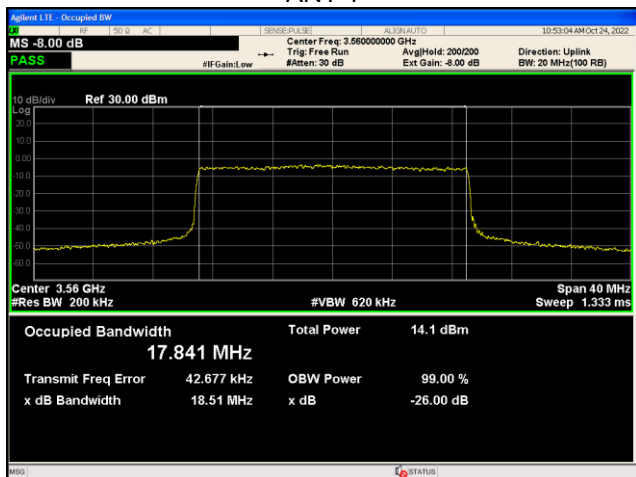


Highest channel

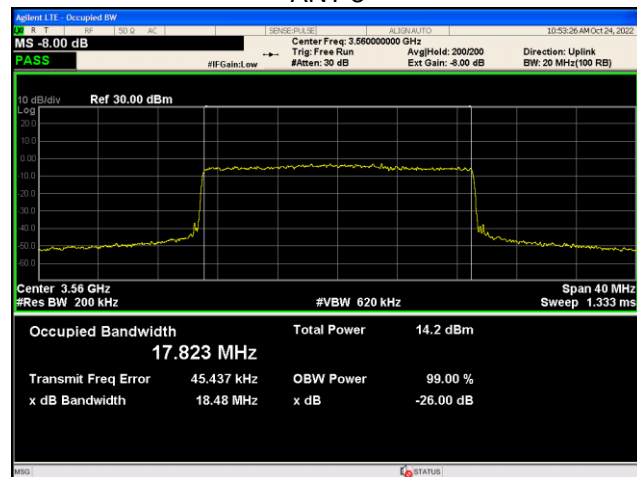
LTE Band 48
BW: 20MHz, 64QAM

ANT 1

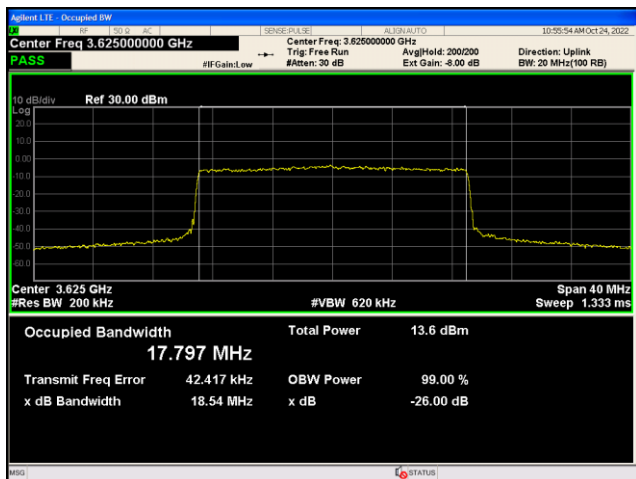
ANT 3



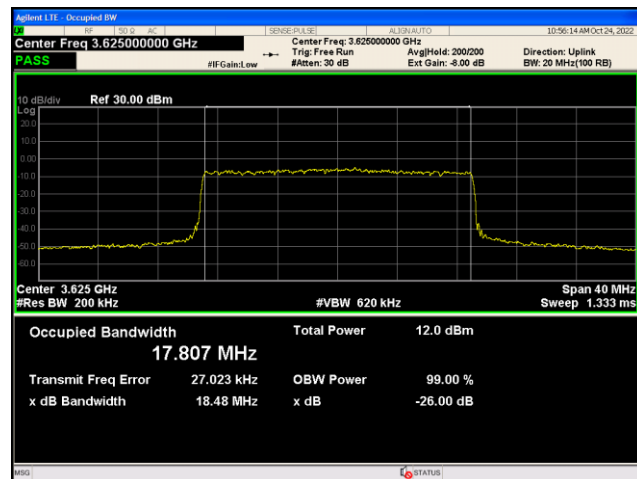
Lowest channel



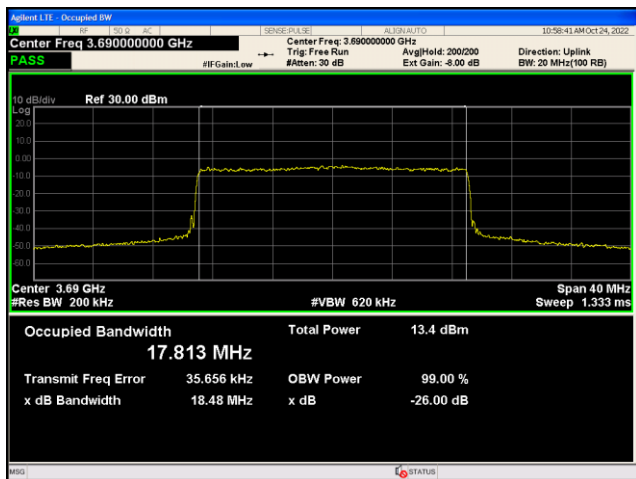
Lowest channel



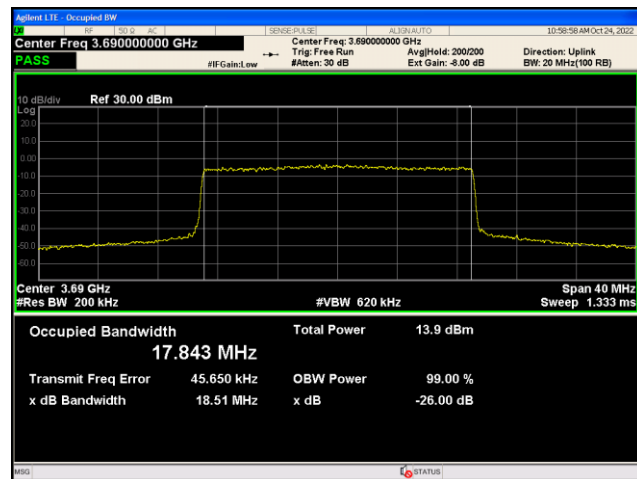
Middle channel



Middle channel



Highest channel

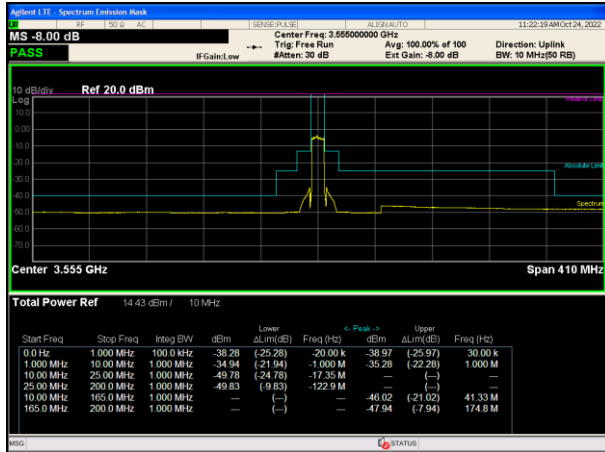


Highest channel

Emission Mask
Test plots as below:

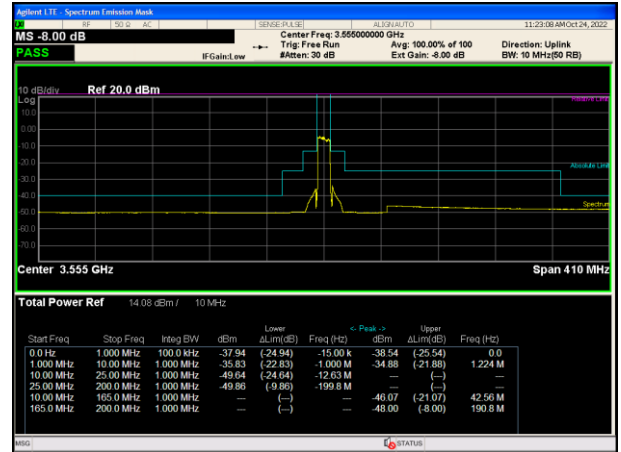
LTE Band 48
10MHz bandwidth, QPSK

ANT 1

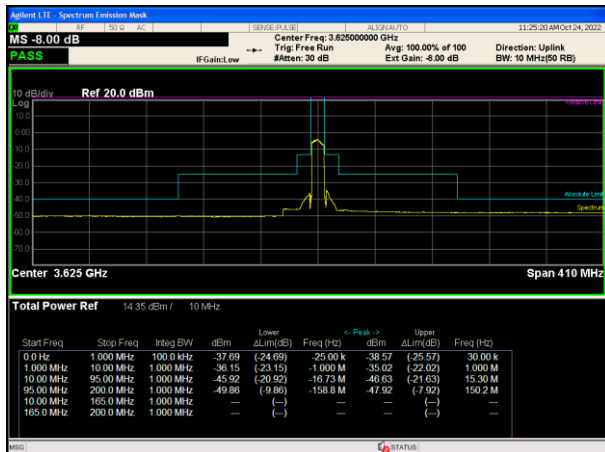


Lowest channel

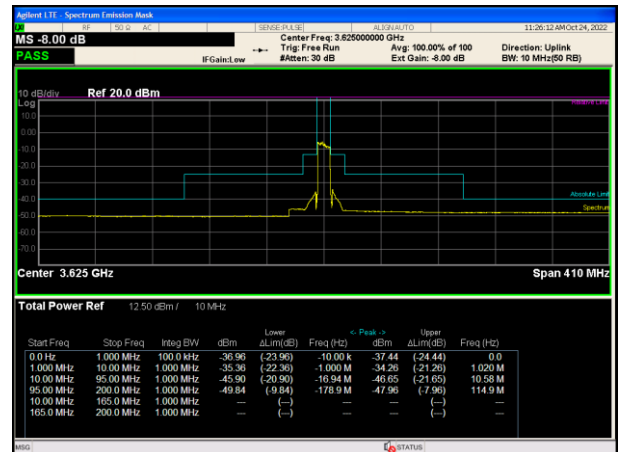
ANT 3



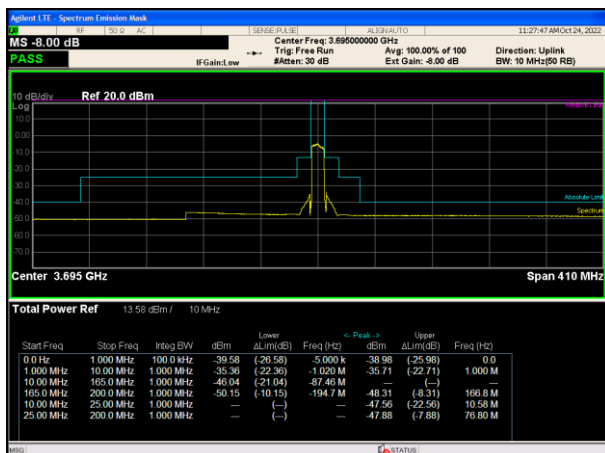
Lowest channel



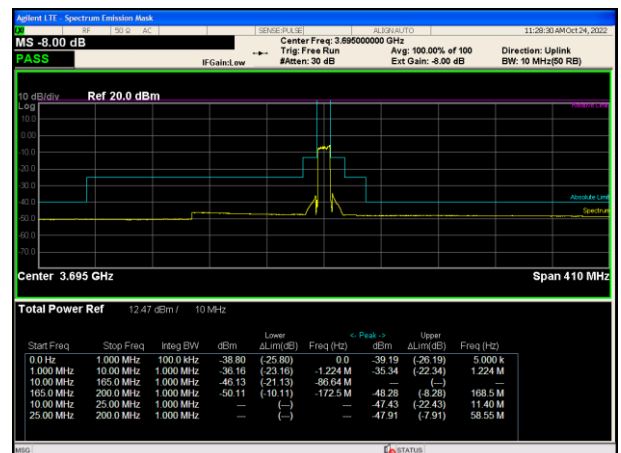
Middle channel



Middle channel



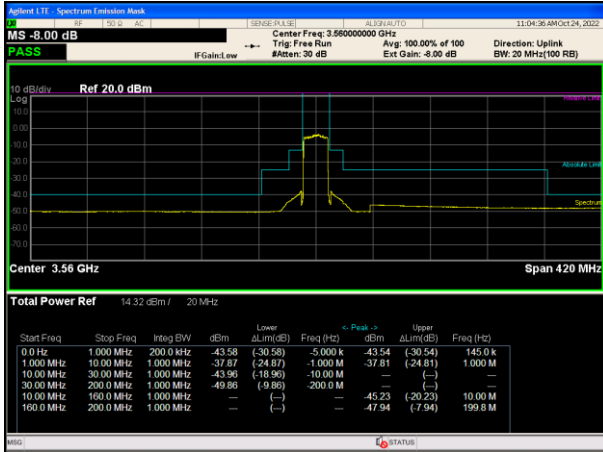
Highest channel



Highest channel

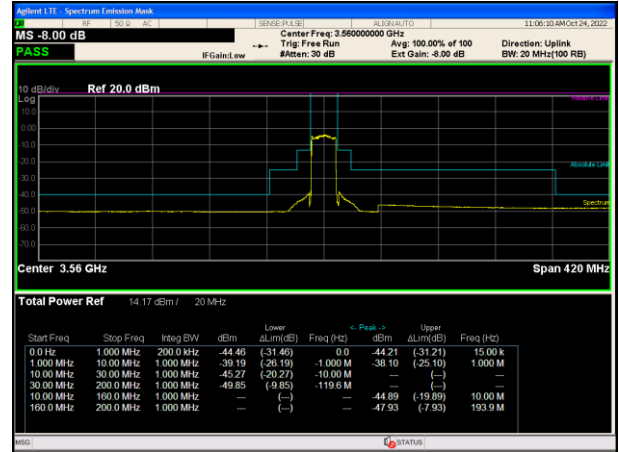
LTE Band 48
20MHz bandwidth, QPSK

ANT 1

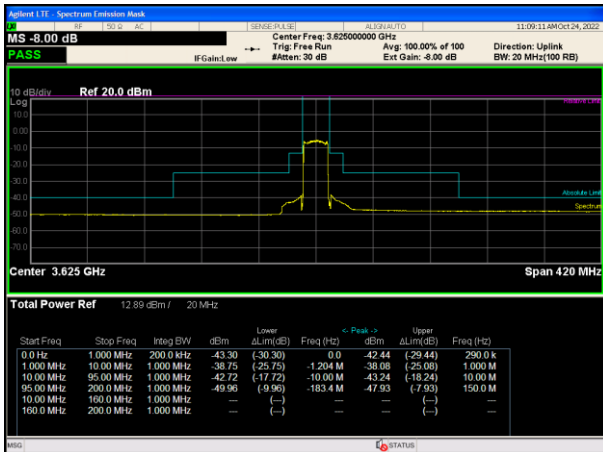


Lowest channel

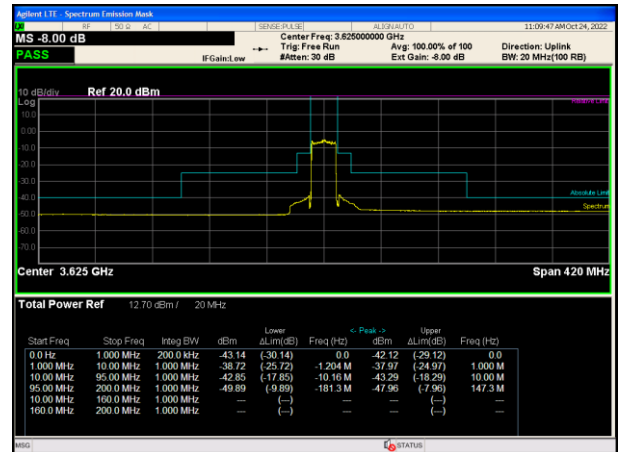
ANT 3



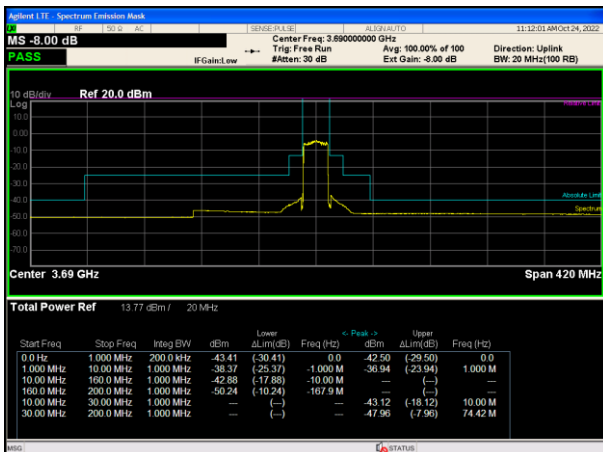
Lowest channel



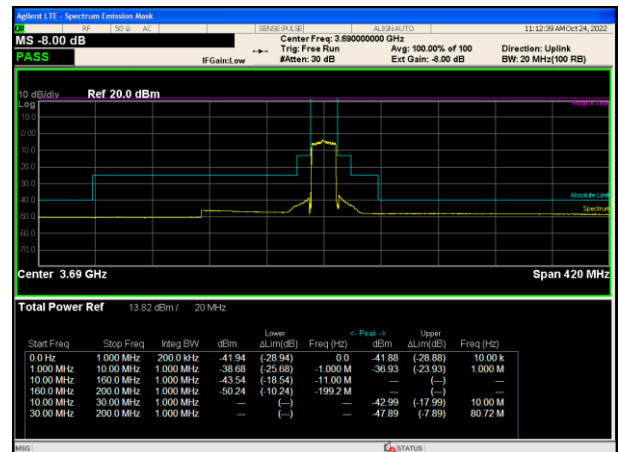
Middle channel



Middle channel



Highest channel



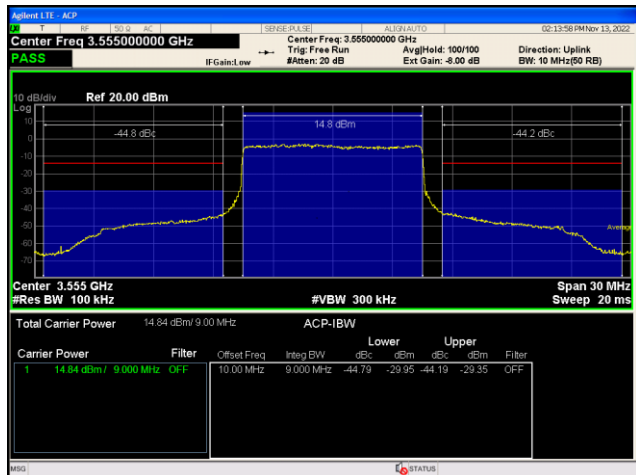
Highest channel

Adjacent Channel Leakage Ratio

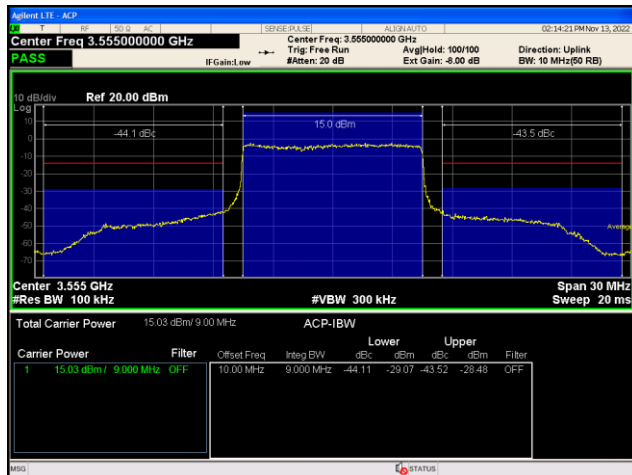
LTE Band 48
BW: 10MHz, QPSK

ANT 1

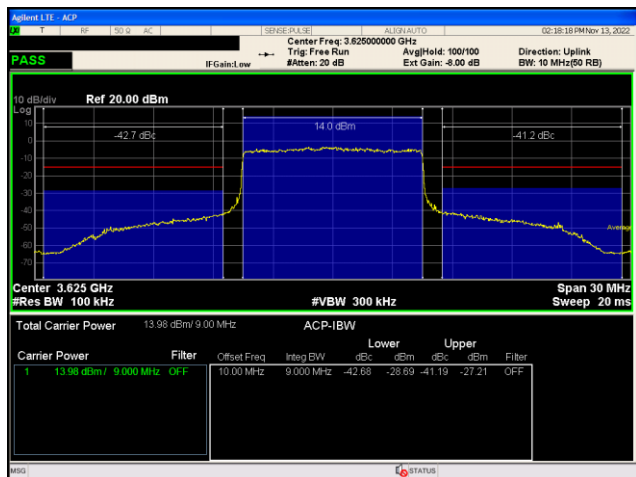
ANT 3



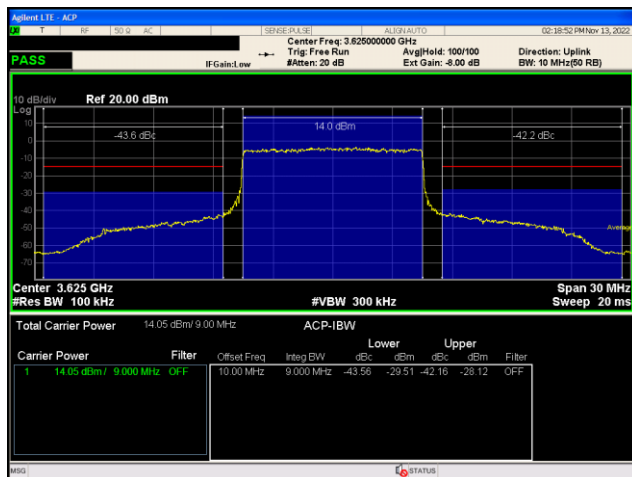
Lowest channel



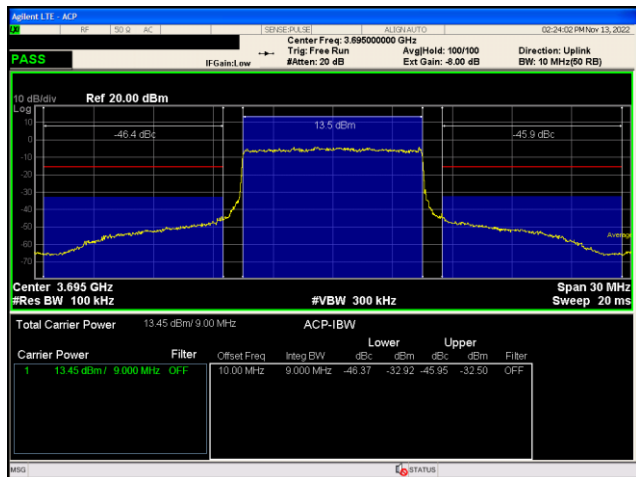
Lowest channel



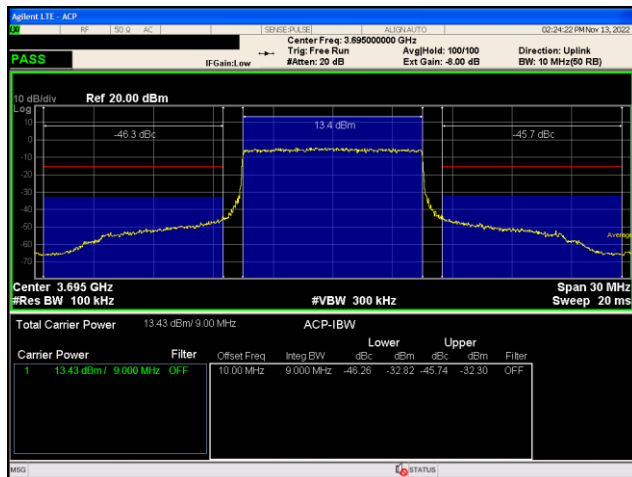
Middle channel



Middle channel



Highest channel

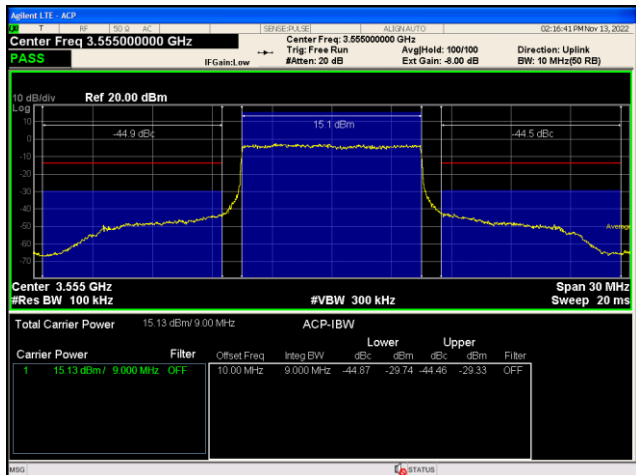


Highest channel

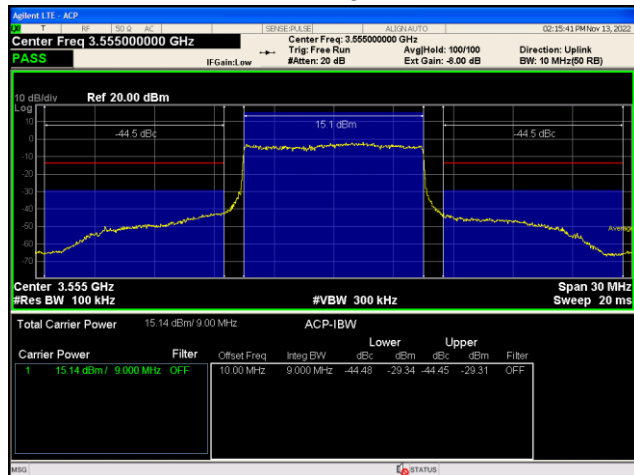
LTE Band 48
BW: 10MHz, 64QAM

ANT 1

ANT 3



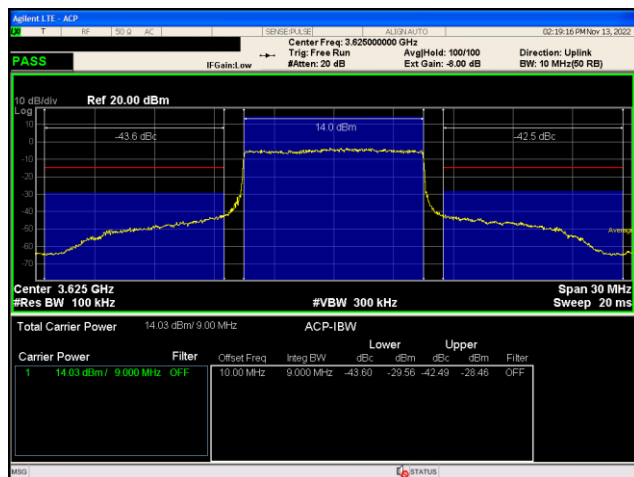
Lowest channel



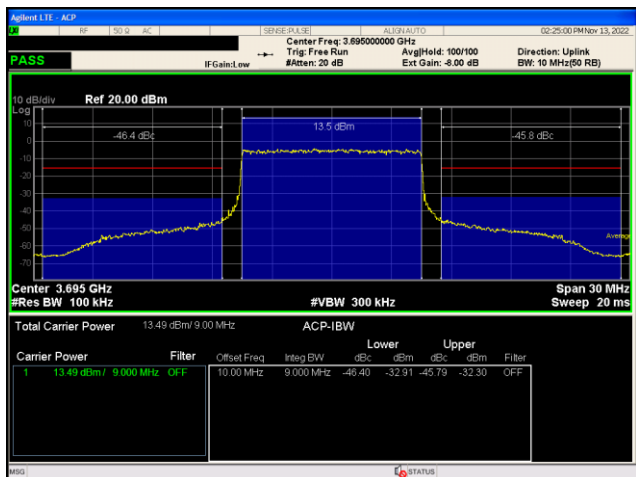
Lowest channel



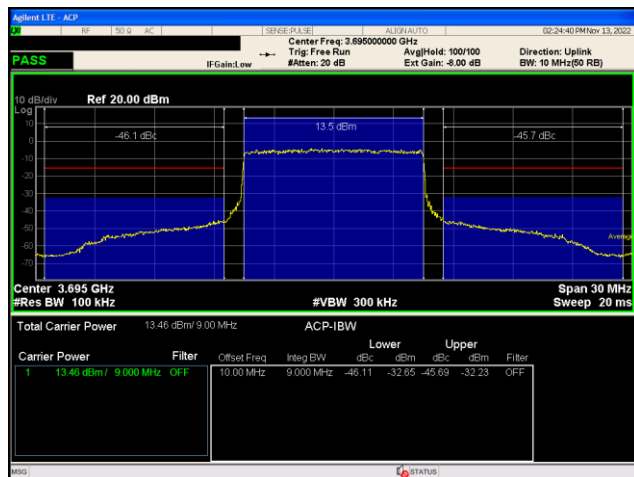
Middle channel



Middle channel



Highest channel

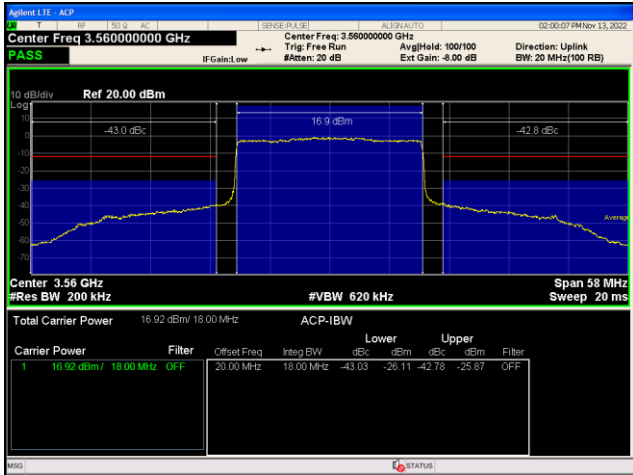


Highest channel

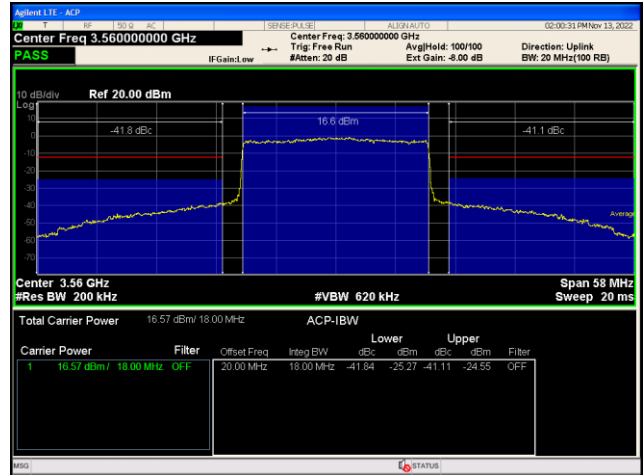
LTE Band 48:
BW: 20MHz QPSK

ANT 1

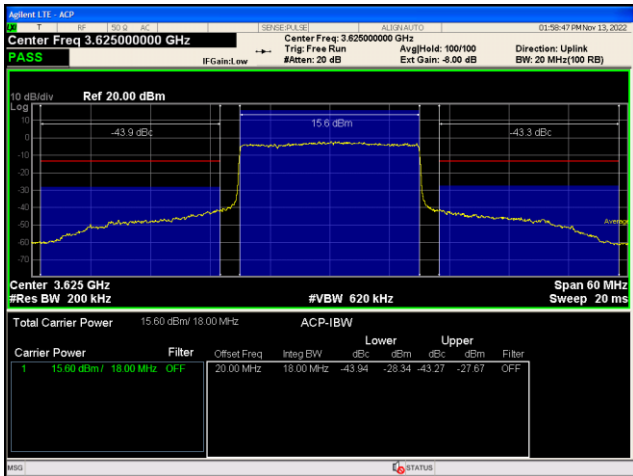
ANT 3



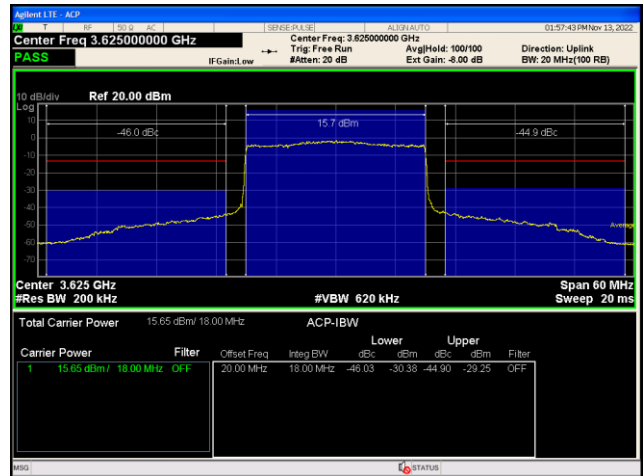
Lowest channel



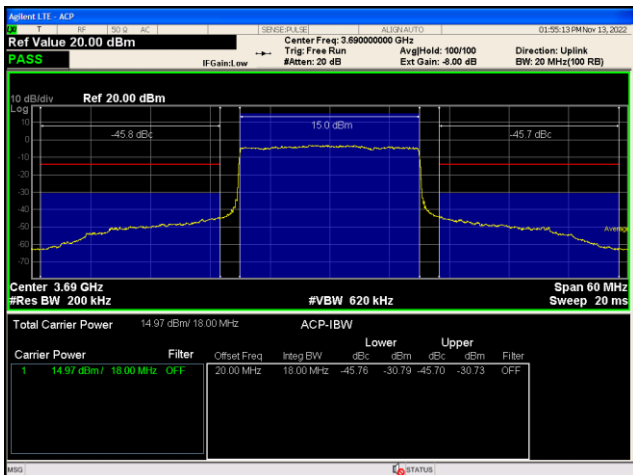
Lowest channel



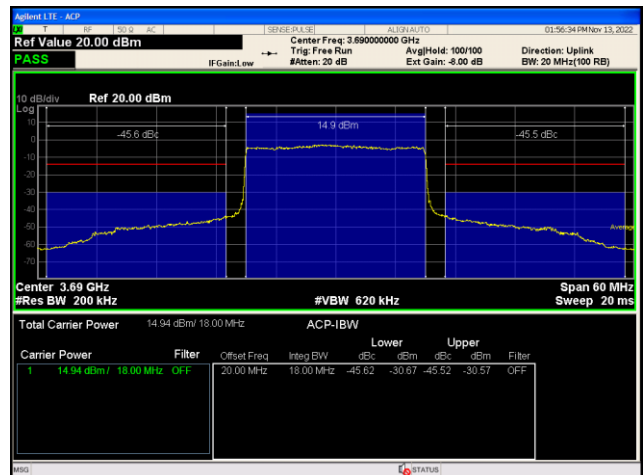
Middle channel



Middle channel



Highest channel

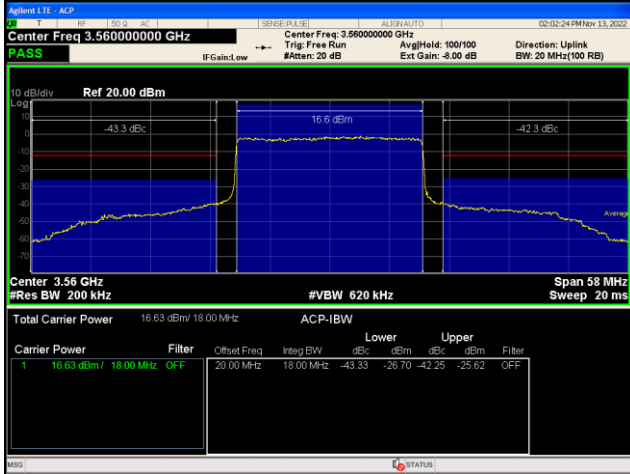


Highest channel

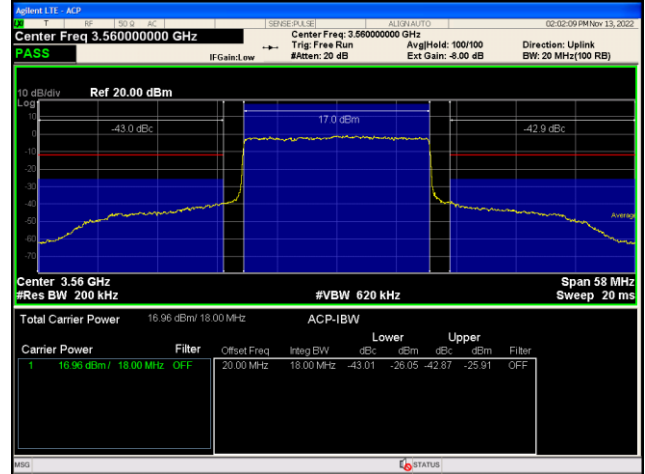
LTE Band 48
BW: 20MHz, 64QAM

ANT 1

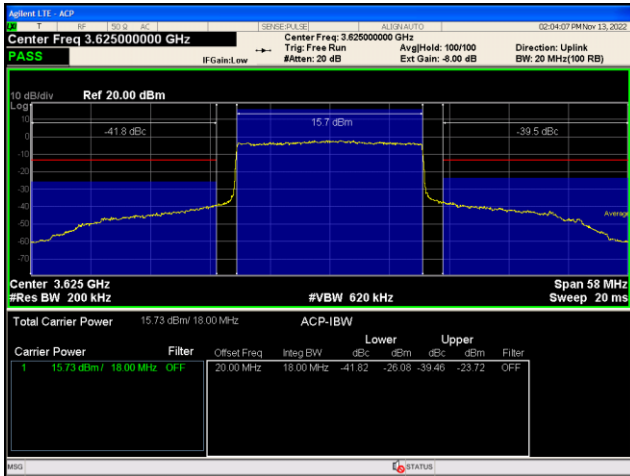
ANT 3



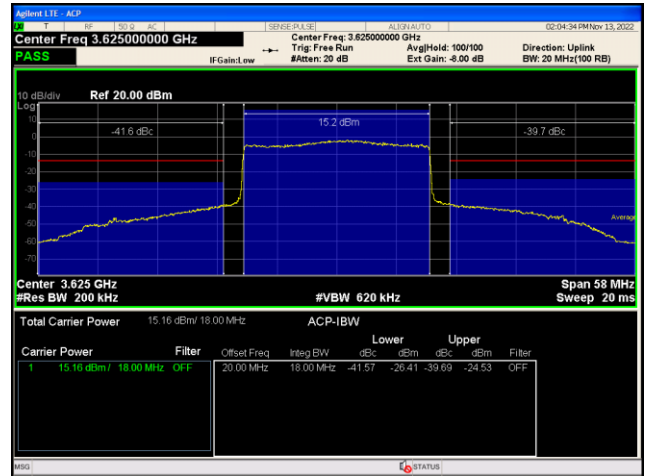
Lowest channel



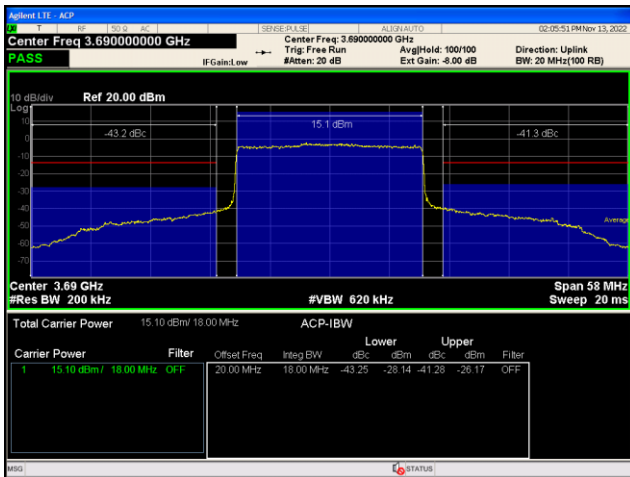
Lowest channel



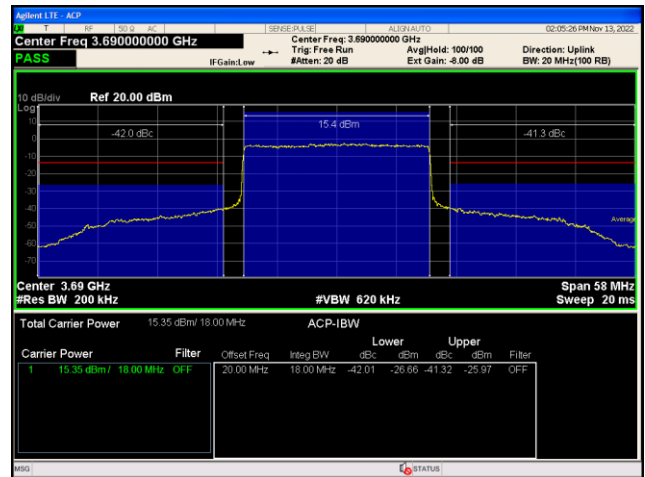
Middle channel



Middle channel



Highest channel



Highest channel

Spurious Emissions at Antenna Terminal

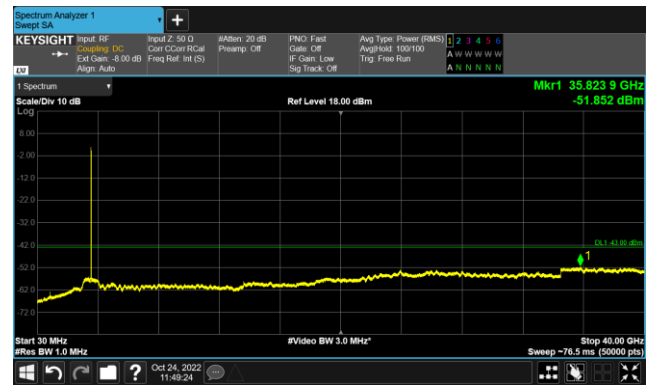
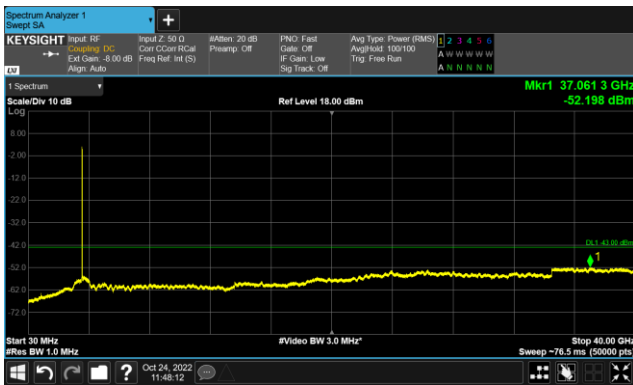
Test plots as below:



LTE Band 48(20 MHz QPSK)

ANT 1

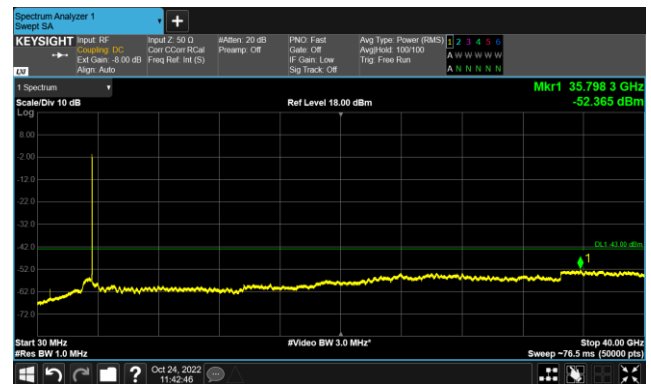
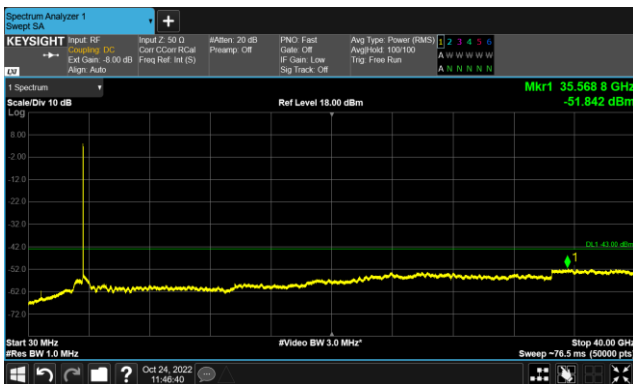
ANT 3



Lowest channel

Lowest channel

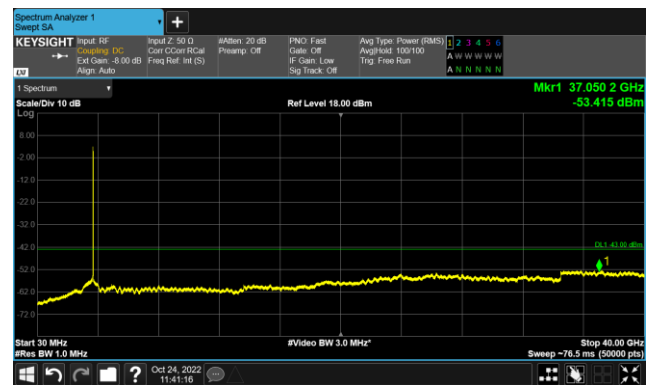
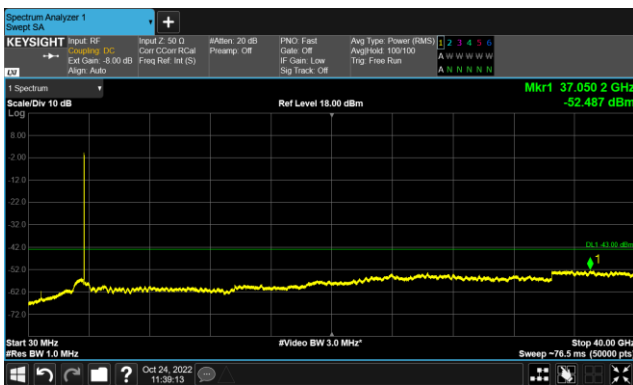
Middle channel



Middle channel

Middle channel

Highest channel



Highest channel

Highest channel

Frequency Stability

Reference Frequency: LTE Band 48 (10MHz) Middle channel Frequency=3625.0MHz – ANT 1					
Temperature					
Power supplied (Vac)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
120	-10	40.53	0.011181	Within authorized band for Band 48	Pass
	0	-15.70	-0.004331		
	10	19.18	0.005291		
	20	-20.20	-0.005572		
	30	13.16	0.003630		
	40	-5.81	-0.001603		
	45	-6.76	-0.001865		
64QAM					
120	-10	20.45	0.005641	Within authorized band for Band 48	Pass
	0	-8.43	-0.002326		
	10	-13.16	-0.003630		
	20	-17.14	-0.004728		
	30	23.58	0.006505		
	40	17.10	0.004717		
	45	-3.16	-0.000872		
Voltage					
Temperature (°C)	Power supplied (Vac)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	102	-22.14	-0.006108	Within authorized band for Band 48	Pass
	120	-13.46	-0.003713		
	138	-9.77	-0.002695		
64QAM					
25	102	-10.18	-0.002808	Within authorized band for Band48	Pass
	120	-8.16	-0.002251		
	138	-24.75	-0.006828		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

Reference Frequency: LTE Band 48 (10MHz) Middle channel Frequency=3625.0MHz – ANT 3					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
120	-10	25.16	0.006941	Within authorized band for Band 48	Pass
	0	16.49	0.004549		
	10	11.13	0.003070		
	20	-14.54	-0.004011		
	30	30.14	0.008314		
	40	20.19	0.005570		
	45	-6.11	-0.001686		
64QAM					
120	-10	-18.75	-0.005172	Within authorized band for Band 48	Pass
	0	30.19	0.008328		
	10	19.18	0.005291		
	20	-15.71	-0.004334		
	30	-8.18	-0.002257		
	40	-20.19	-0.005570		
	45	29.15	0.008041		
Voltage					
Temperature (°C)	Power supplied (Vac)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	102	-15.49	-0.004273	Within authorized band for Band 48	Pass
	120	-10.15	-0.002800		
	138	-26.14	-0.007211		
64QAM					
25	102	-9.99	-0.002756	Within authorized band for Band48	Pass
	120	-20.19	-0.005570		
	138	-14.01	-0.003865		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

-----End-----