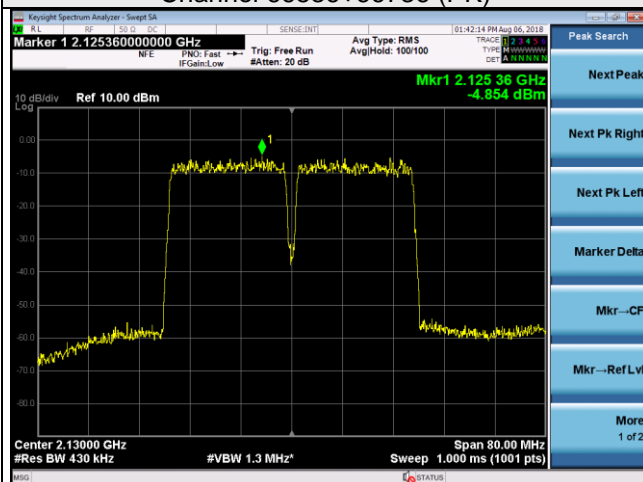


20MHz+20MHz Contiguous Chain 0

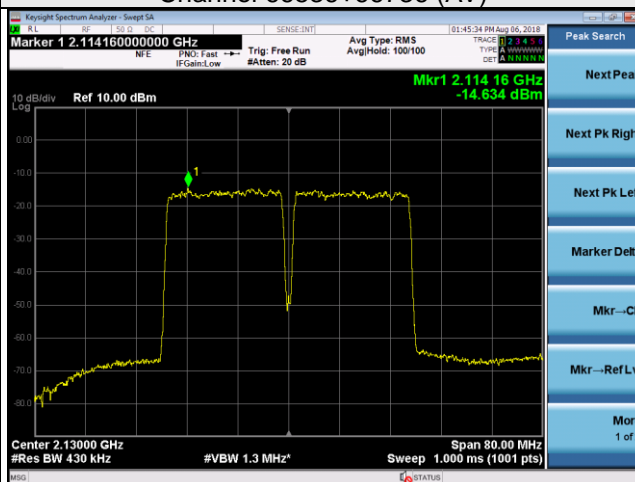
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			
		QPSK	16QAM	64QAM	256QAM
66536+66736	2120+2140	9.78	9.88	8.77	8.79
66686+66886	2135+2155	9.60	9.83	8.54	8.55
66836+67036	2150+2170	9.57	9.01	8.42	9.23

Spectrum Plot of Worst Value
QPSK

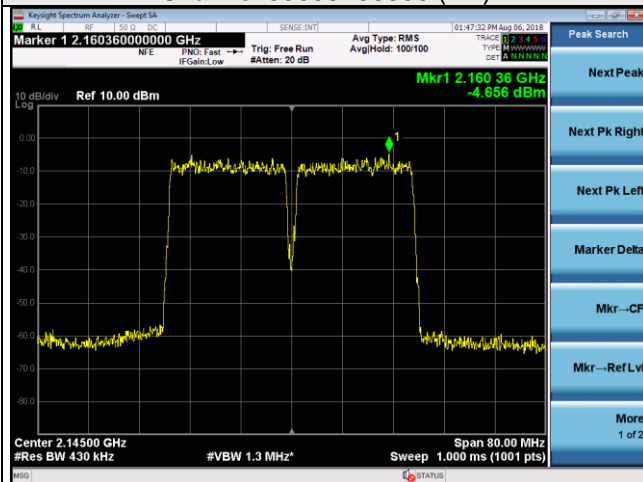
Channel 66536+66736 (PK)



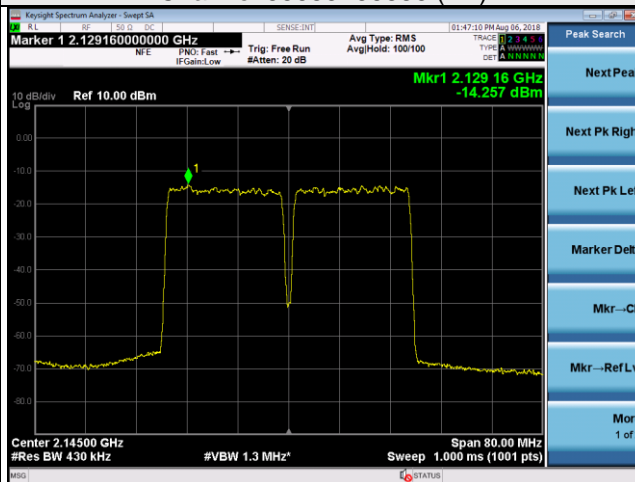
Channel 66536+66736 (AV)



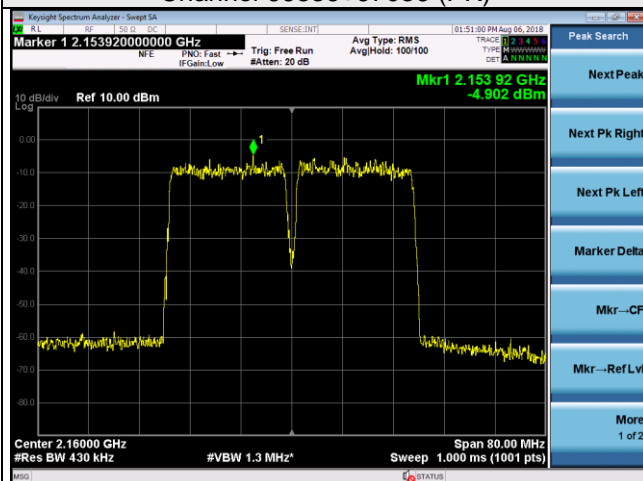
Channel 66686+66886 (PK)



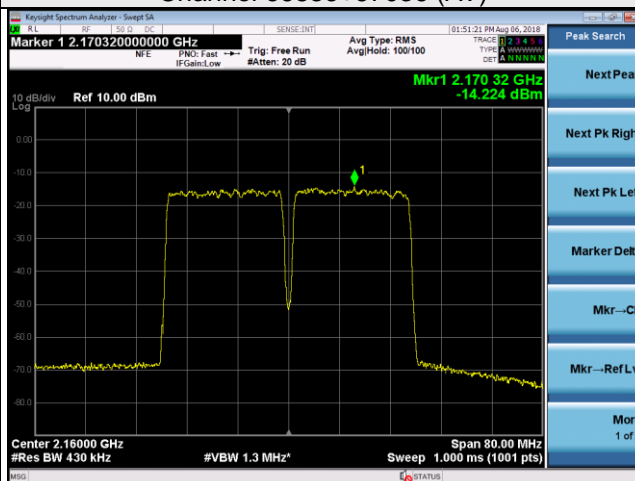
Channel 66686+66886 (AV)



Channel 66836+67036 (PK)

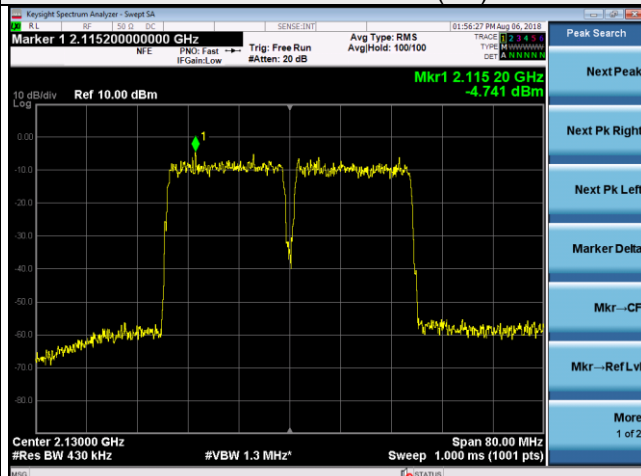


Channel 66836+67036 (AV)

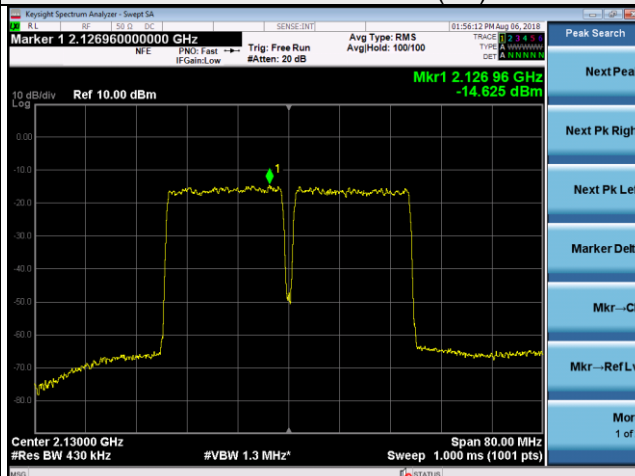


16QAM

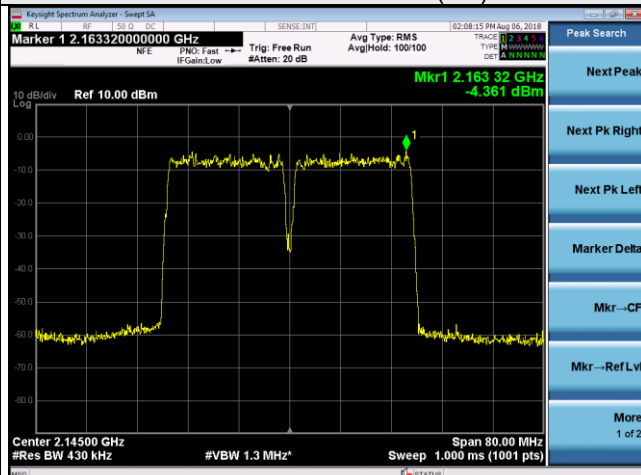
Channel 66536+66736 (PK)



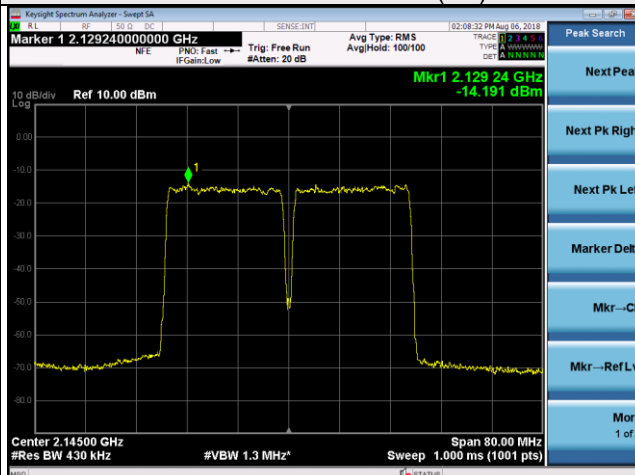
Channel 66536+66736 (AV)



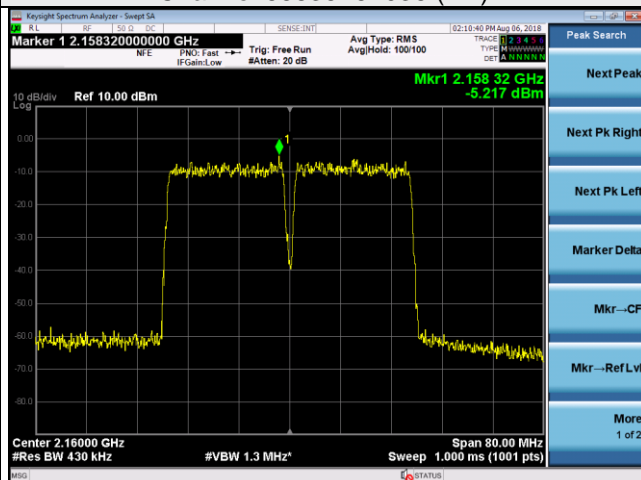
Channel 66686+66886 (PK)



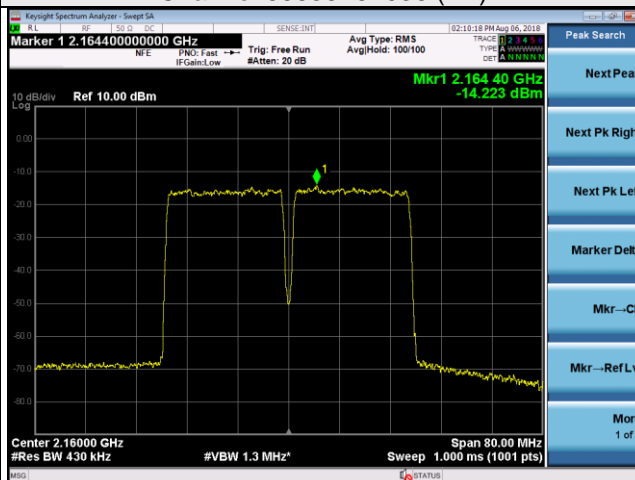
Channel 66686+66886 (AV)



Channel 66836+67036 (PK)

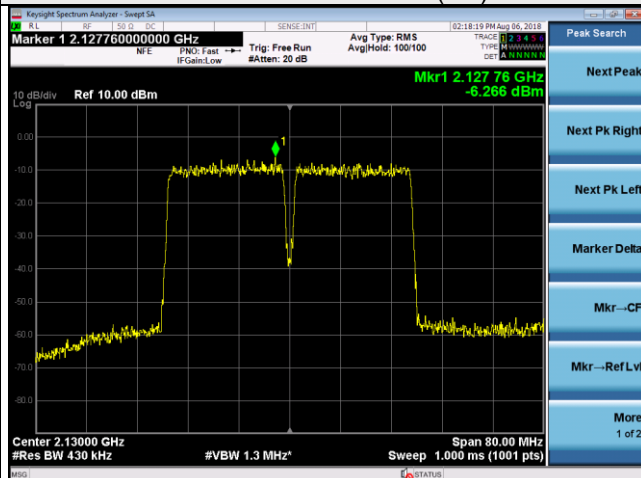


Channel 66836+67036 (AV)

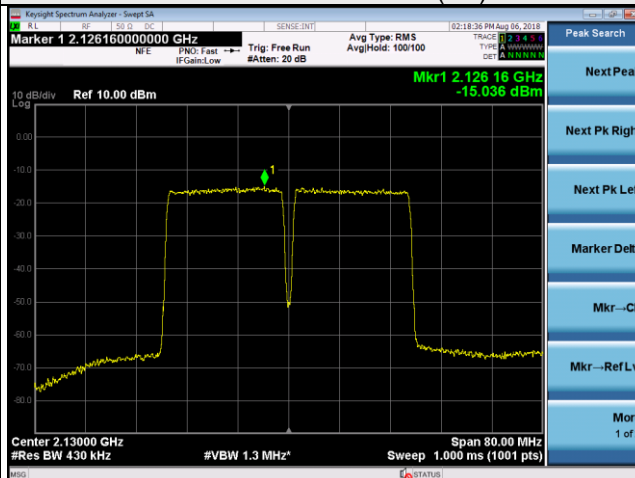


64QAM

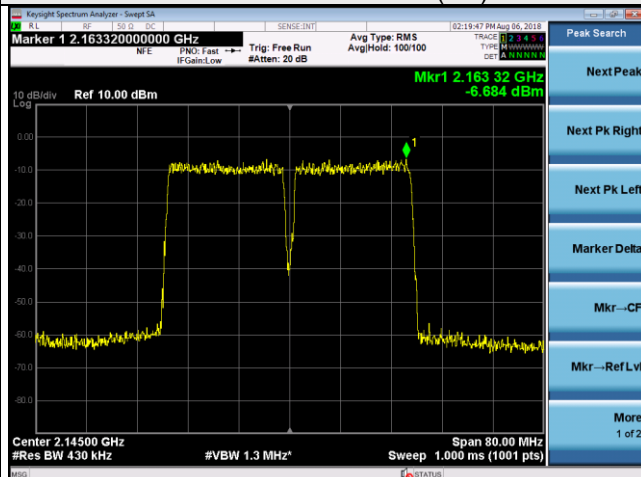
Channel 66536+66736 (PK)



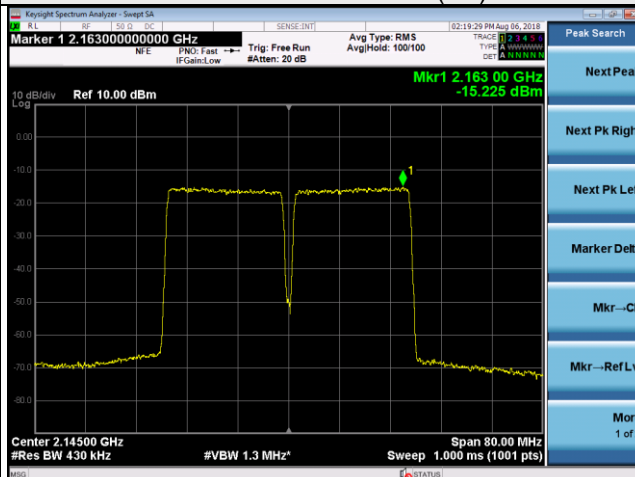
Channel 66536+66736 (AV)



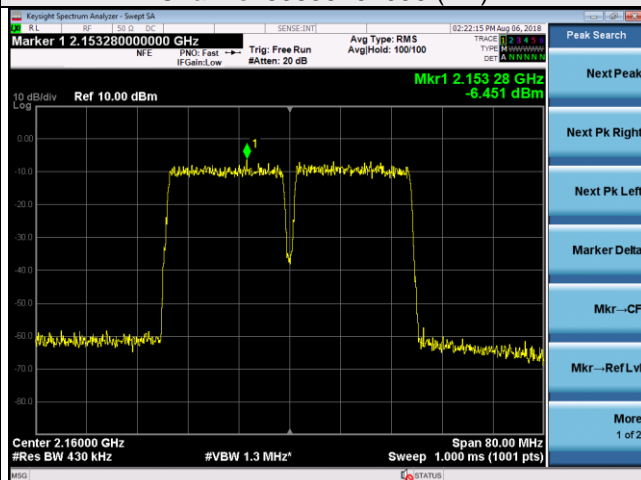
Channel 66686+66886 (PK)



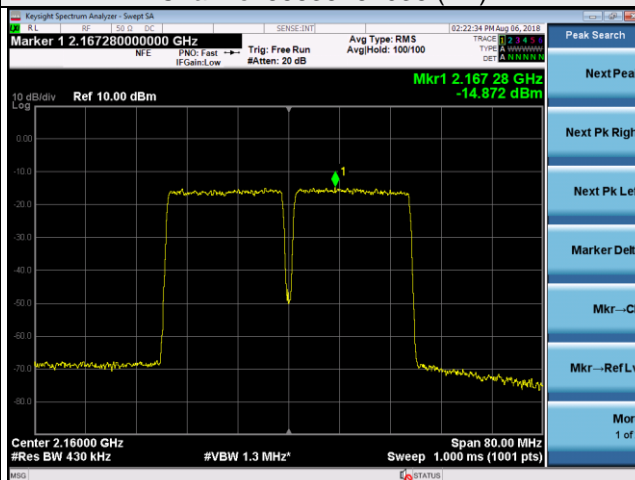
Channel 66686+66886 (AV)



Channel 66836+67036 (PK)

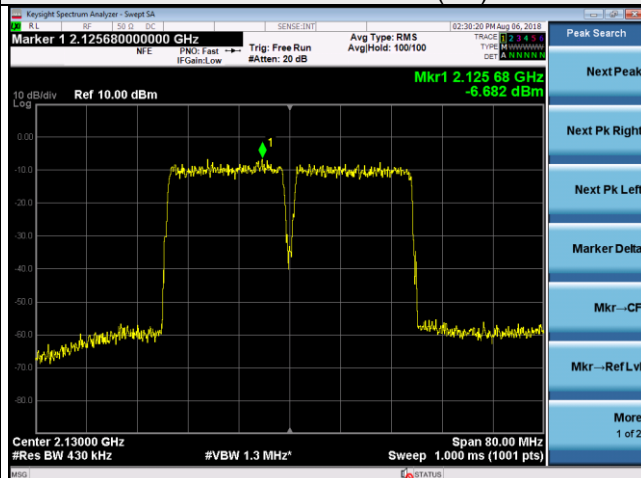


Channel 66836+67036 (AV)

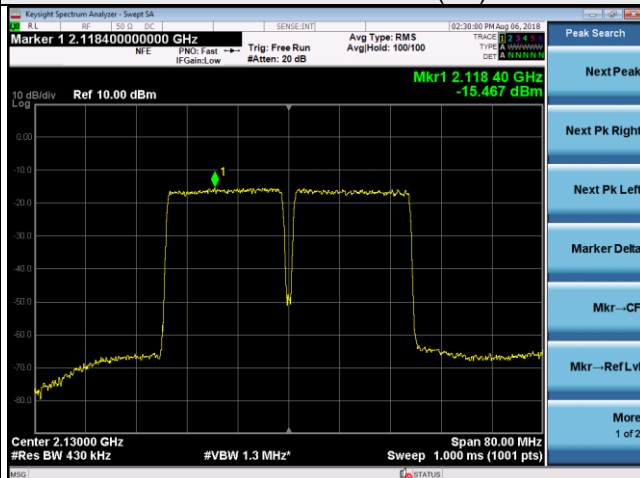


256QAM

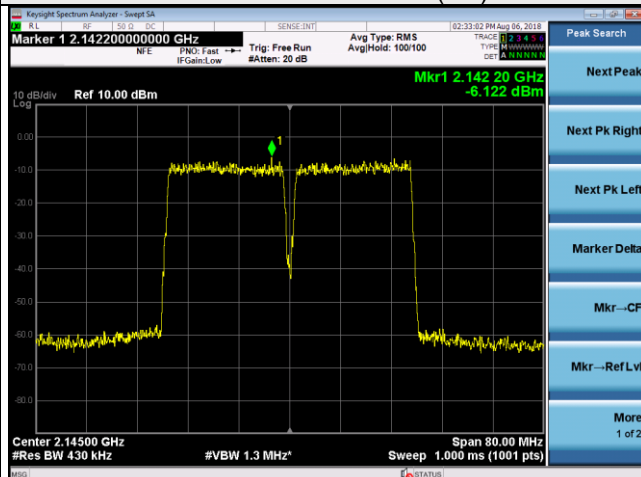
Channel 66536+66736 (PK)



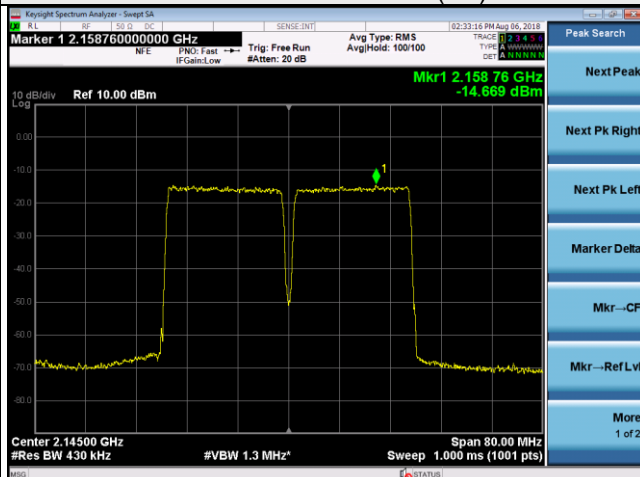
Channel 66536+66736 (AV)



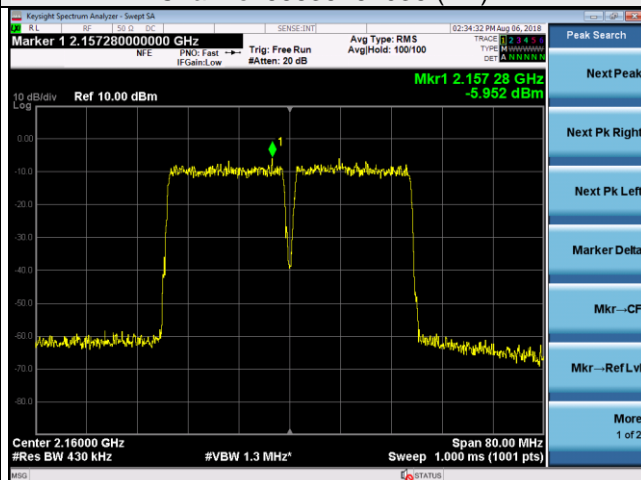
Channel 66686+66886 (PK)



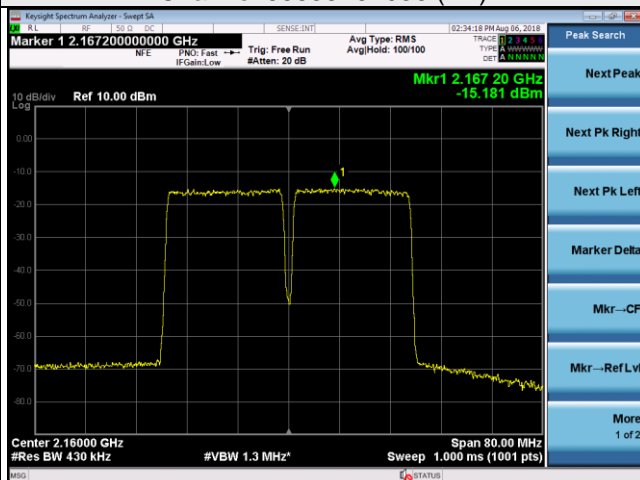
Channel 66686+66886 (AV)



Channel 66836+67036 (PK)



Channel 66836+67036 (AV)

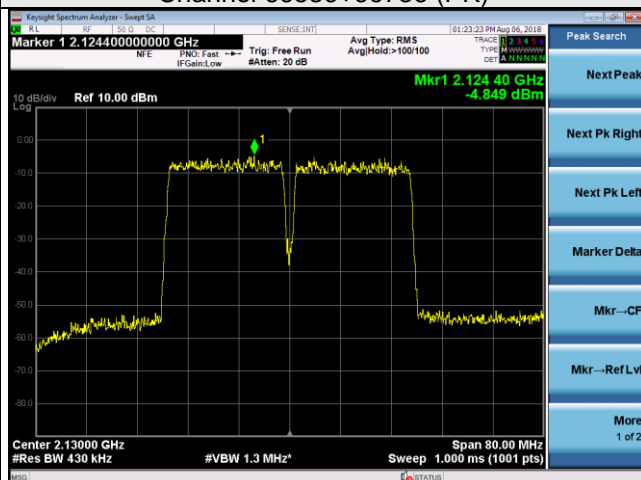


20MHz+20MHz Contiguous Chain 1

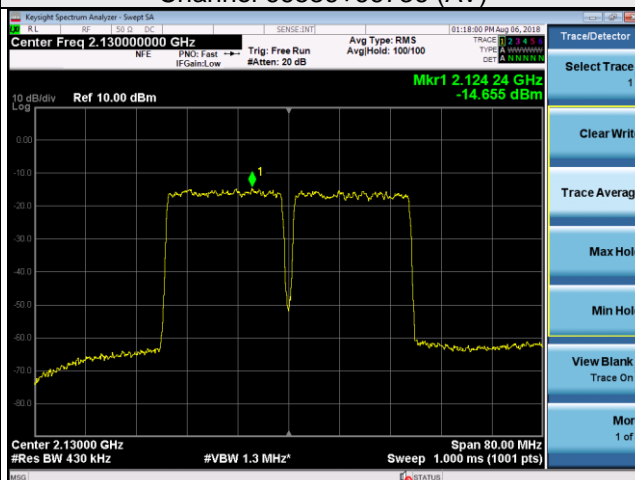
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			
		QPSK	16QAM	64QAM	256QAM
66536+66736	2120+2140	9.81	10.04	8.67	7.87
66686+66886	2135+2155	8.94	9.15	7.50	8.95
66836+67036	2150+2170	9.74	8.89	8.13	8.65

Spectrum Plot of Worst Value
QPSK

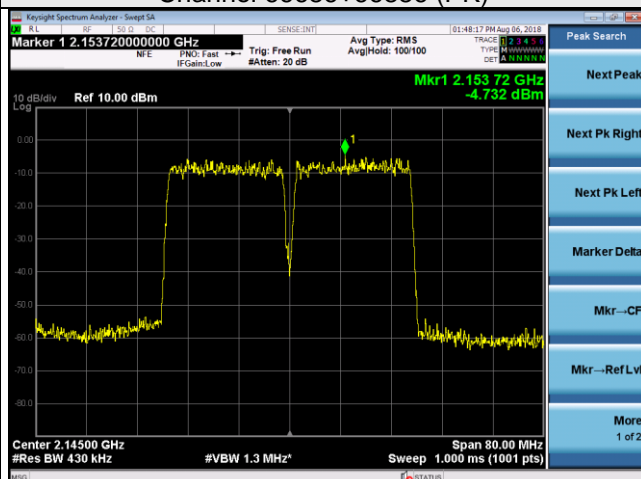
Channel 66536+66736 (PK)



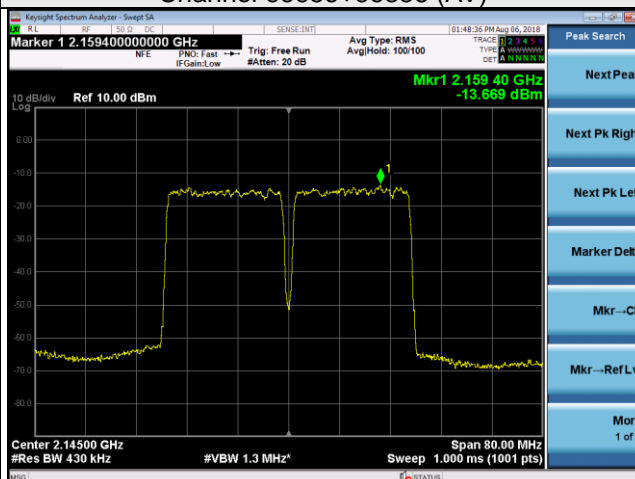
Channel 66536+66736 (AV)



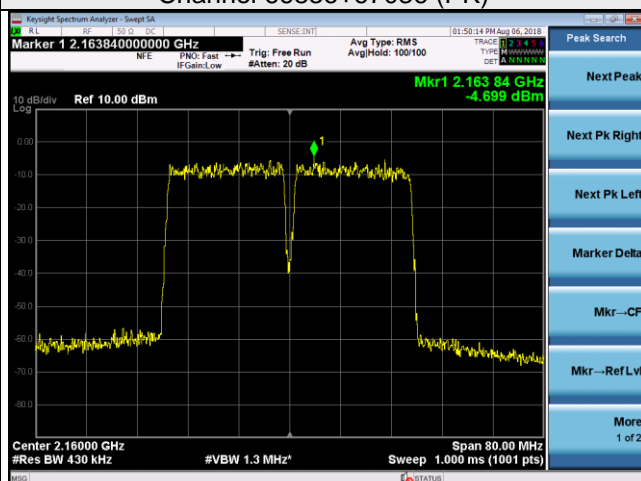
Channel 66686+66886 (PK)



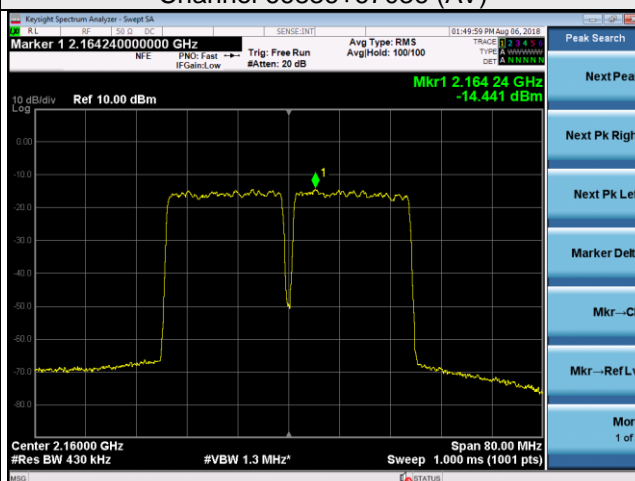
Channel 66686+66886 (AV)



Channel 66836+67036 (PK)

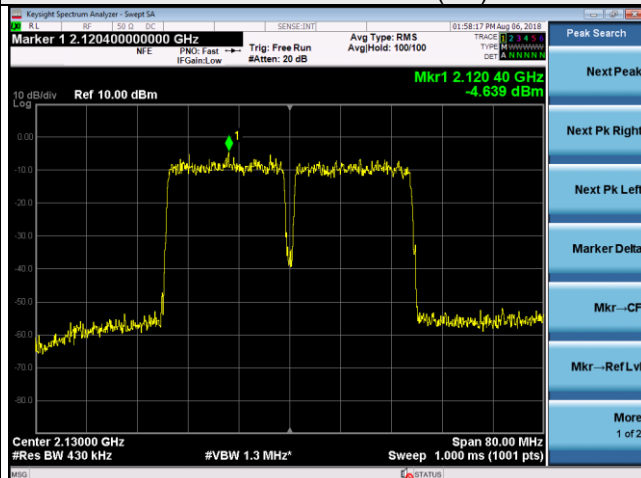


Channel 66836+67036 (AV)

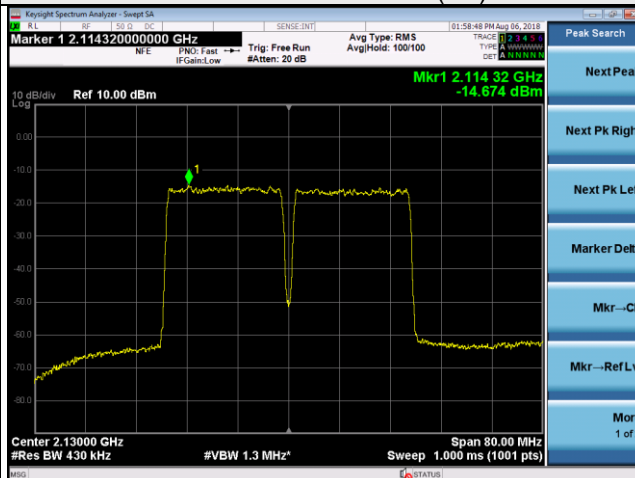


16QAM

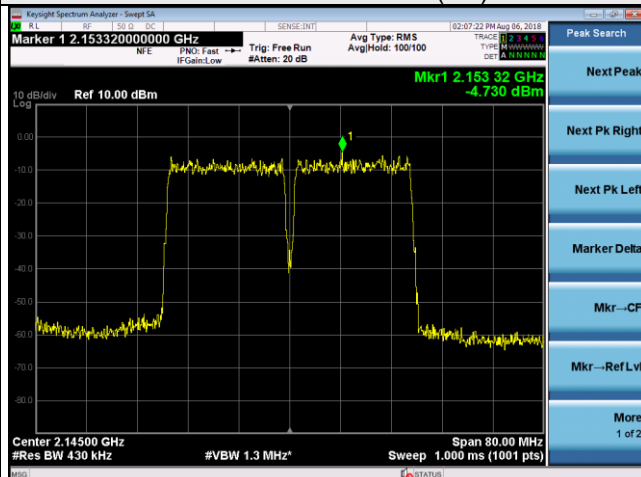
Channel 66536+66736 (PK)



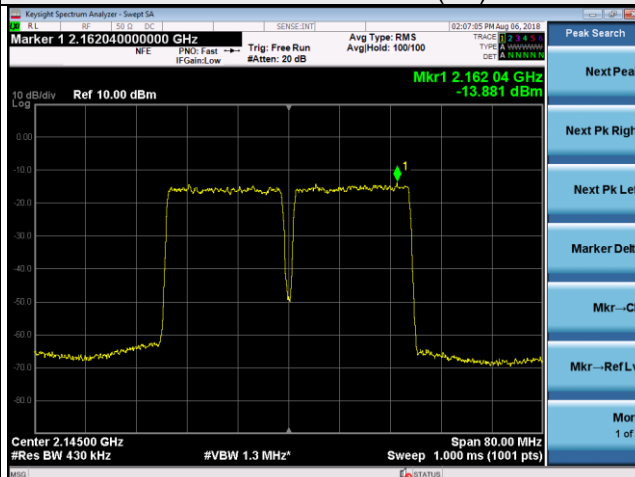
Channel 66536+66736 (AV)



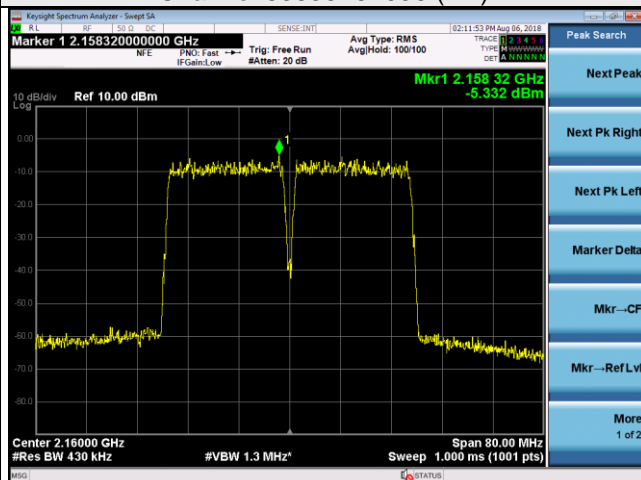
Channel 66686+66886 (PK)



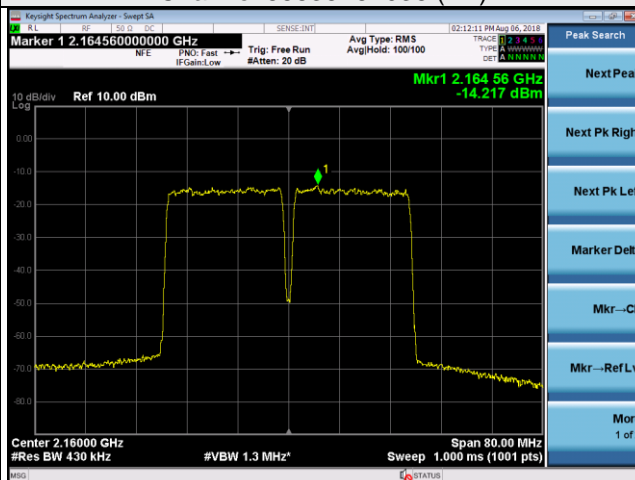
Channel 66686+66886 (AV)



Channel 66836+67036 (PK)

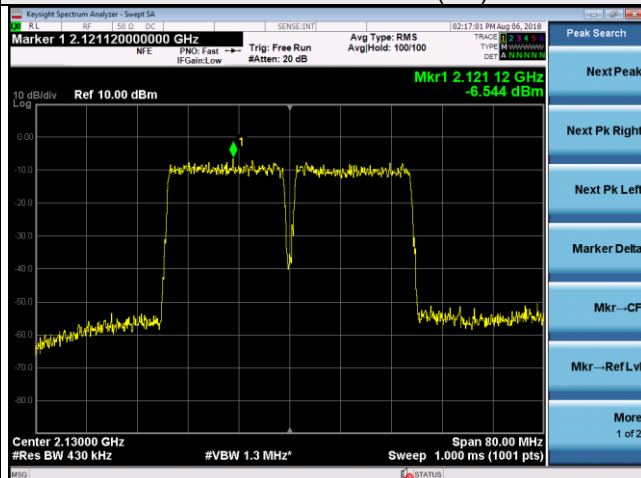


Channel 66836+67036 (AV)

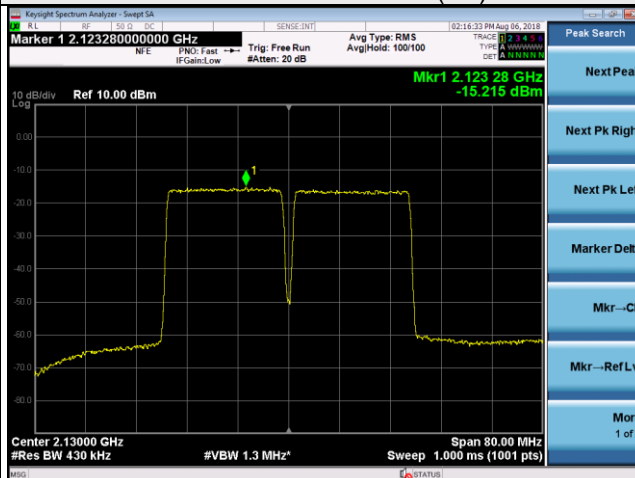


64QAM

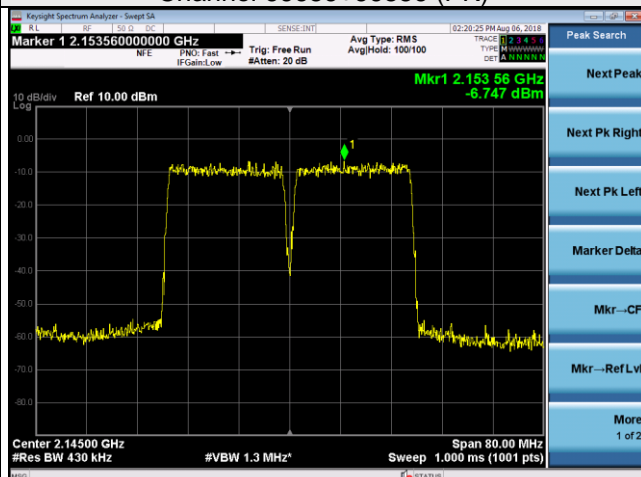
Channel 66536+66736 (PK)



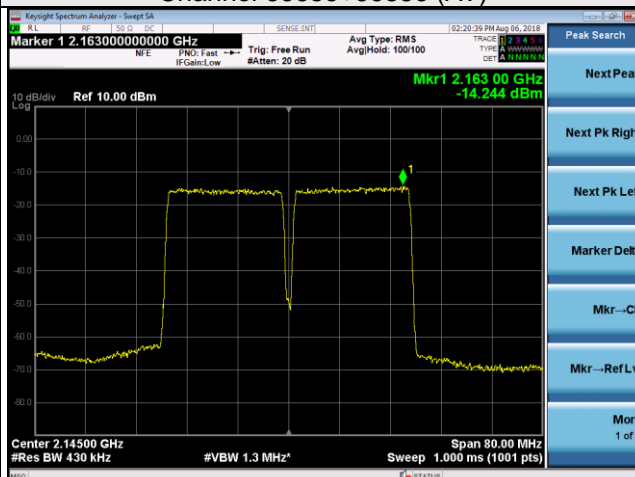
Channel 66536+66736 (AV)



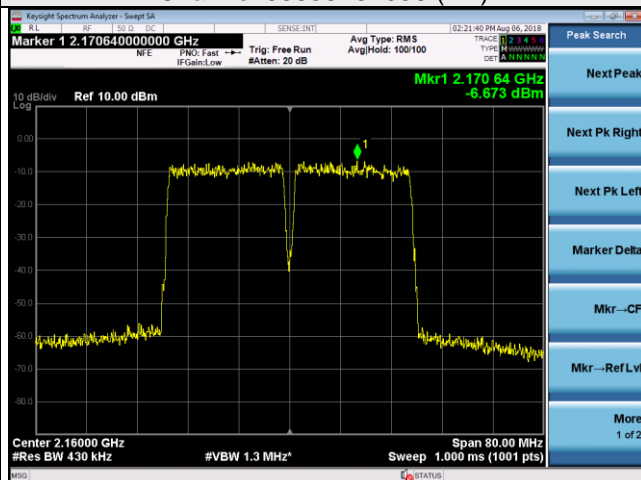
Channel 66686+66886 (PK)



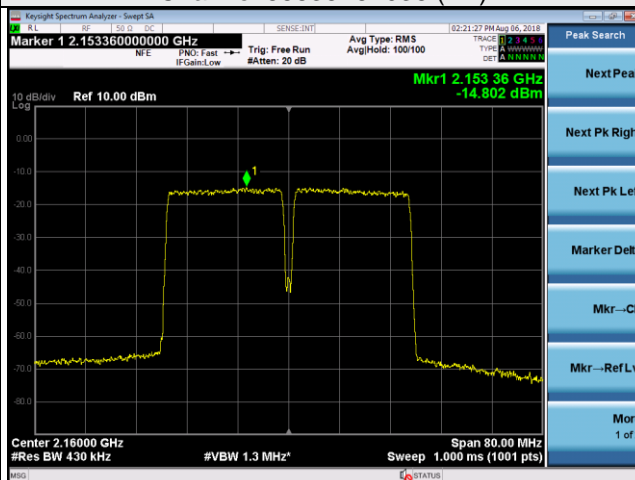
Channel 66686+66886 (AV)



Channel 66836+67036 (PK)

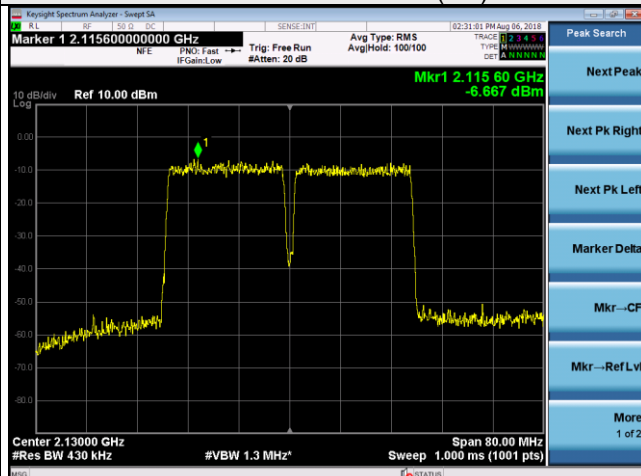


Channel 66836+67036 (AV)

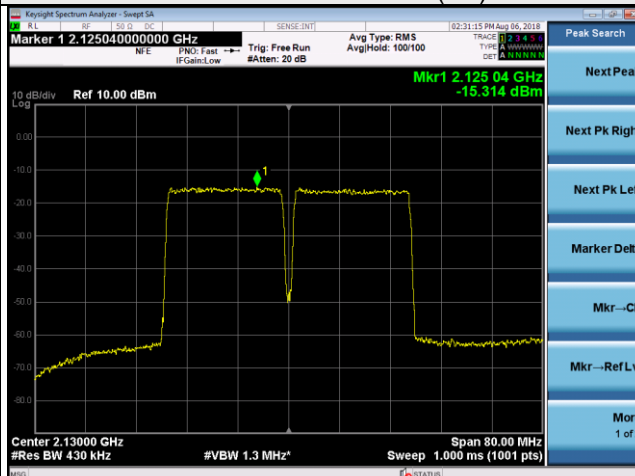


256QAM

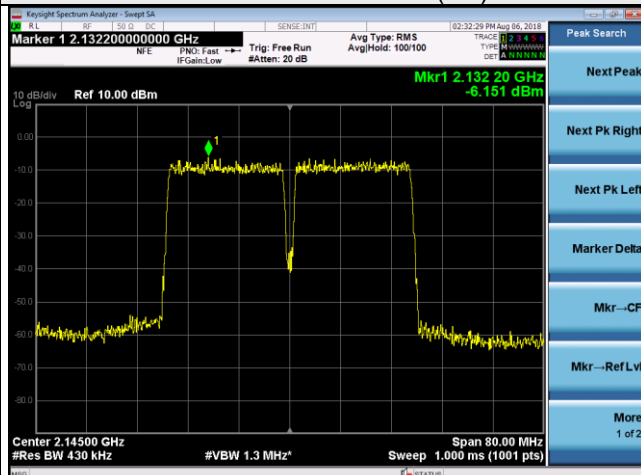
Channel 66536+66736 (PK)



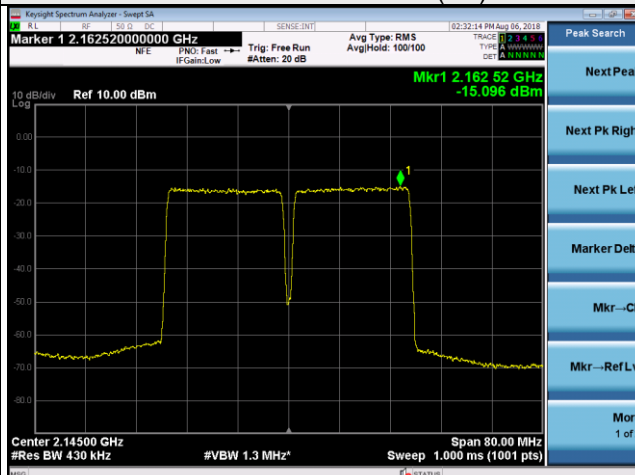
Channel 66536+66736 (AV)



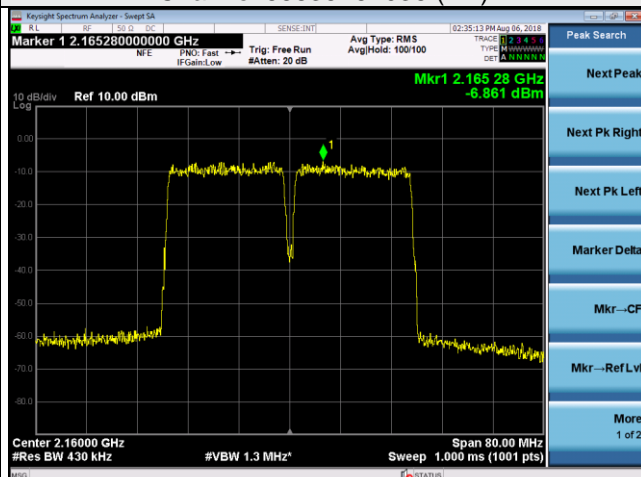
Channel 66686+66886 (PK)



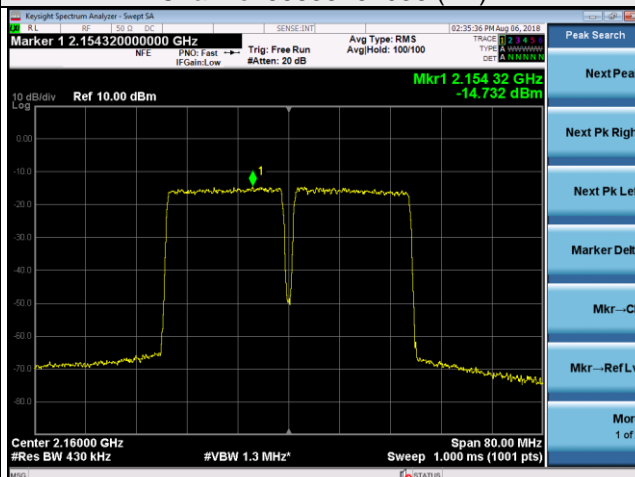
Channel 66686+66886 (AV)



Channel 66836+67036 (PK)



Channel 66836+67036 (AV)

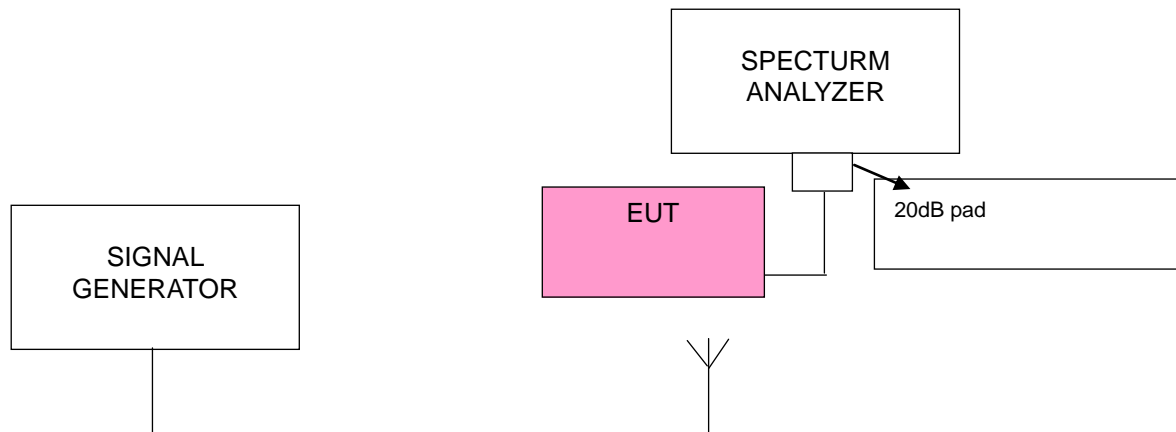


4.7 Conducted Spurious Emissions

4.7.1 Limits of Conducted Spurious Emissions Measurement

In the FCC 27.53(h), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, the emission limit equal to -13dBm .

4.7.2 Test Setup



4.7.3 Test Procedure

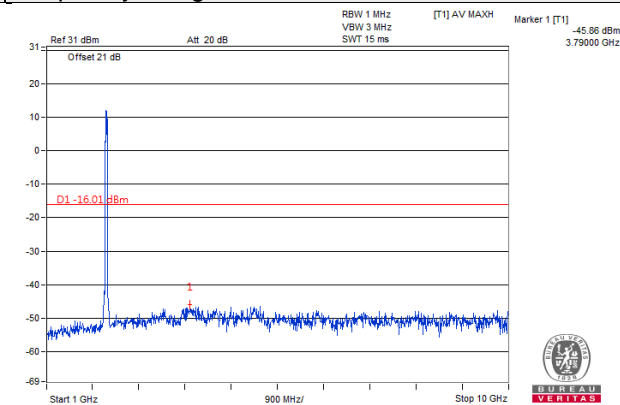
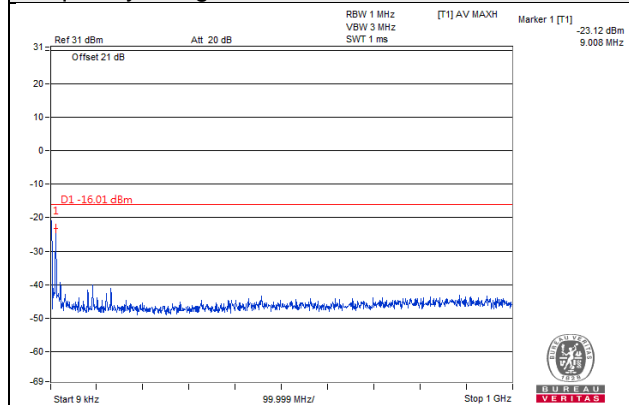
- a. All measurements were done at 3 channels: low, middle and high operational frequency range.
- b. When the spectrum scanned from 9kHz to 20GHz, it shall be connected to the 20dB pad attenuated the carried frequency. The spectrum set $RB = 1\text{MHz}$, $VB = 3\text{MHz}$.

4.7.4 Test Results

10MHz+15MHz Non-Contiguous GAP 15MHz Chain 0

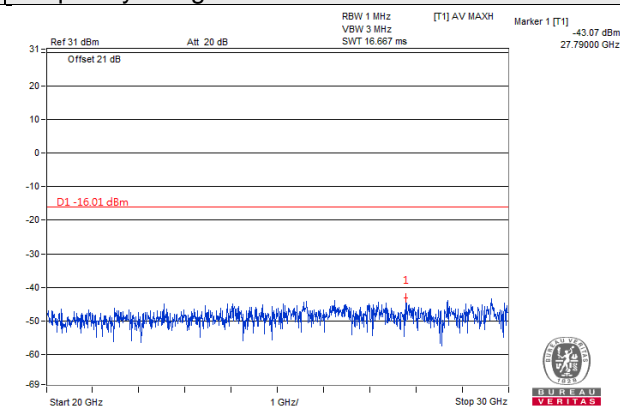
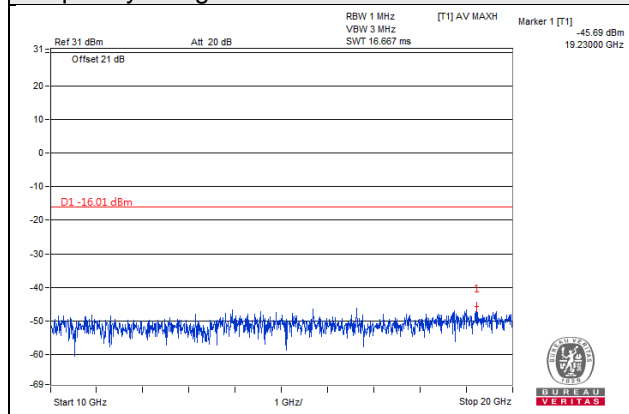
Channel 66686+66961

Frequency Range : 9kHz~1GHz Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

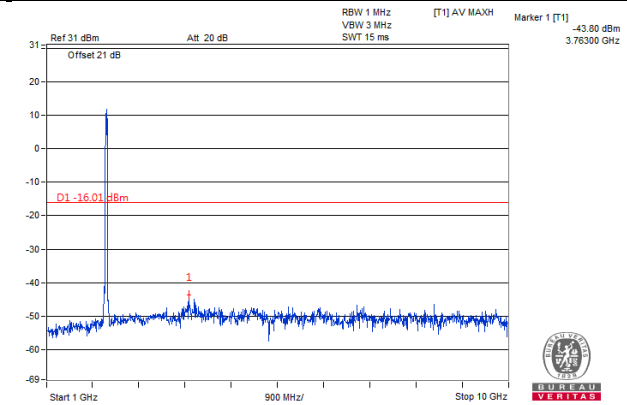
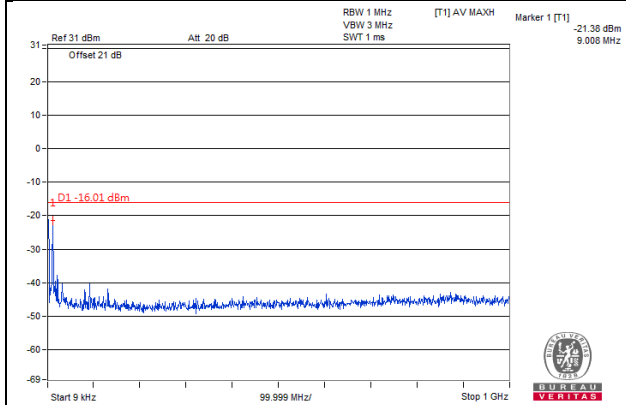
Frequency Range : 10GHz~30GHz



10MHz+15MHz Non-Contiguous GAP 15MHz Chain 1

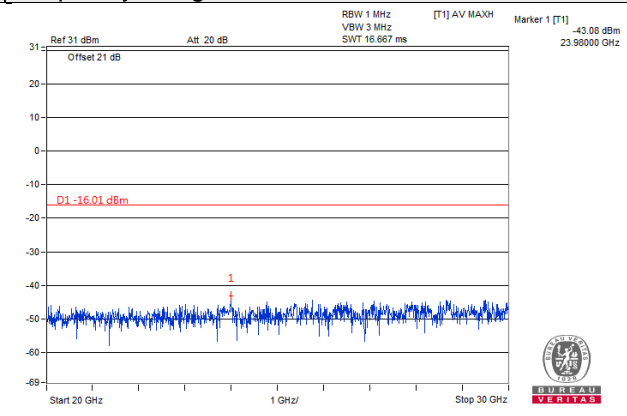
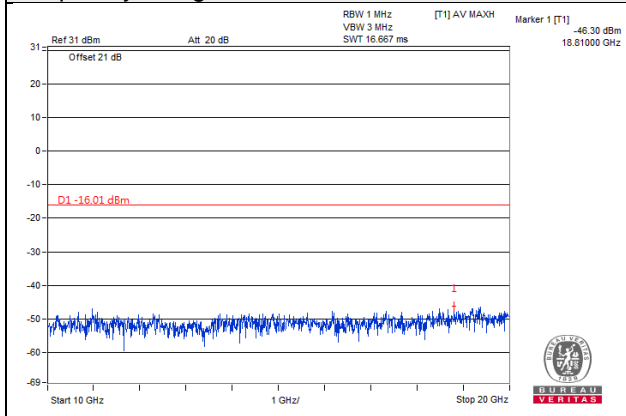
Channel 66686+66961

Frequency Range : 9kHz~1GHz Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

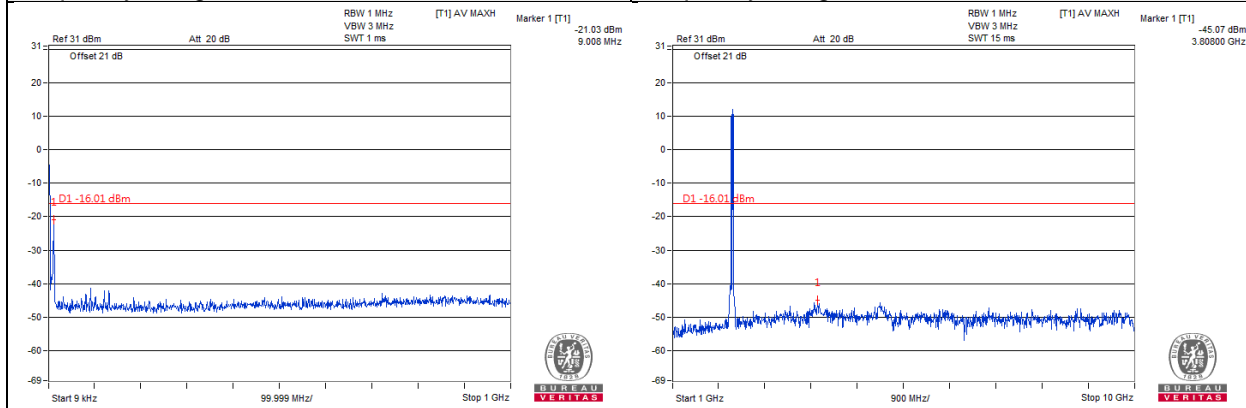
Frequency Range : 10GHz~30GHz



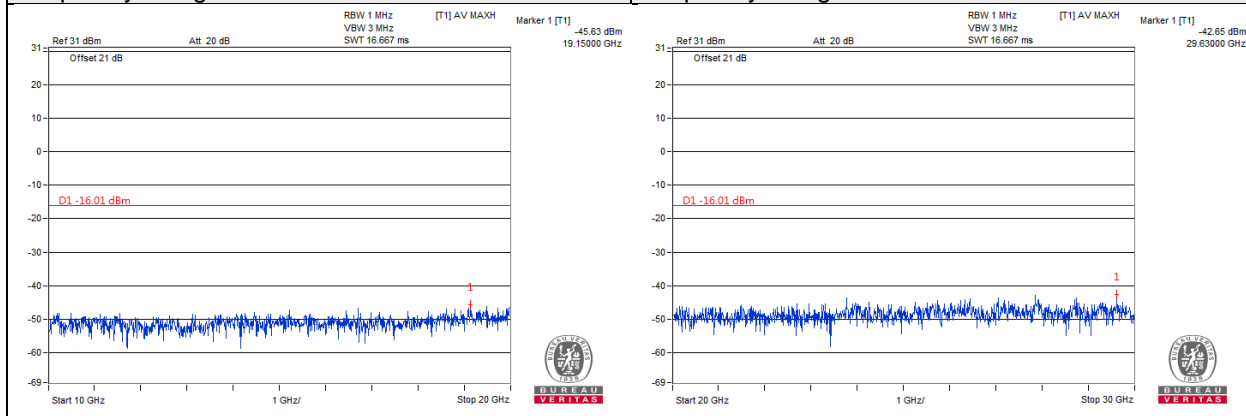
10MHz+15MHz Non-Contiguous GAP 20MHz Chain 0

Channel 66636+66961

Frequency Range : 9kHz~1GHz Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz Frequency Range : 10GHz~30GHz

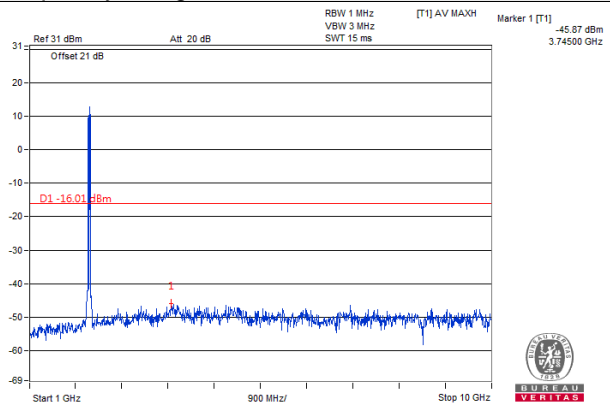
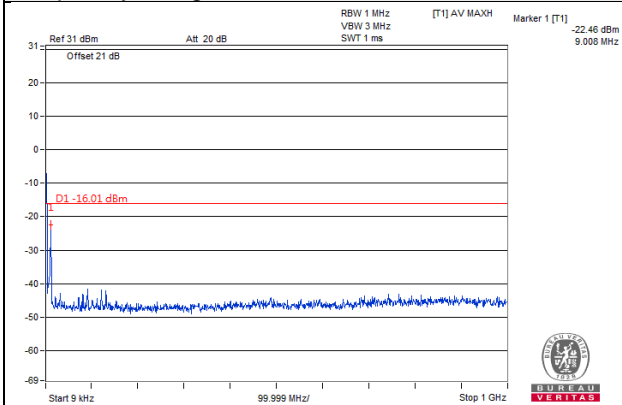


10MHz+15MHz Non-Contiguous GAP 20MHz Chain 1

Channel 66636+66961

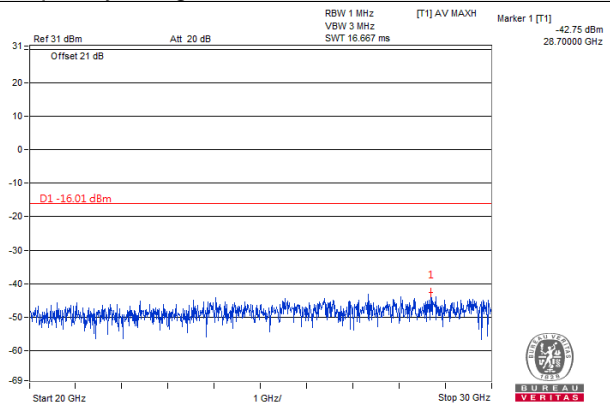
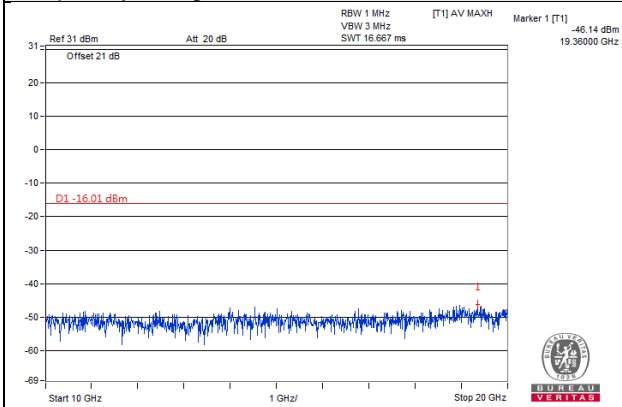
Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

Frequency Range : 10GHz~30GHz

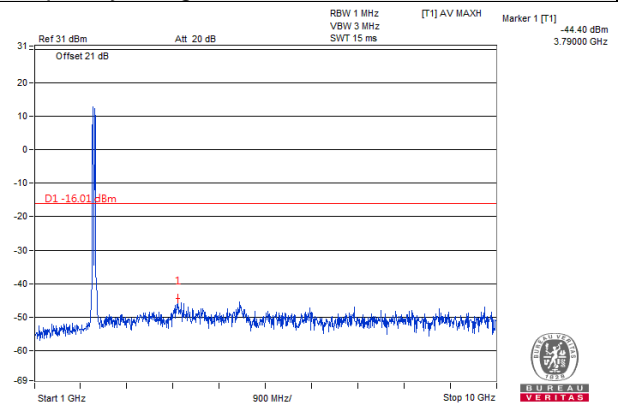
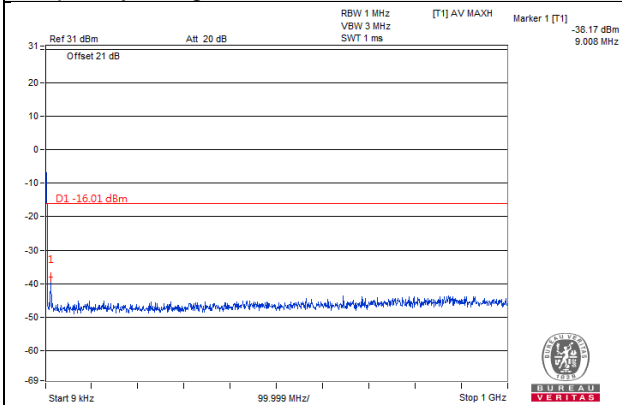


20MHz+20MHz Non-Contiguous GAP 20MHz Chain 0

Channel 66536+66936

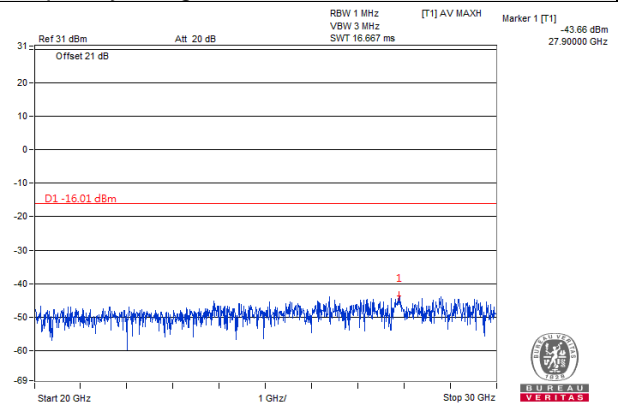
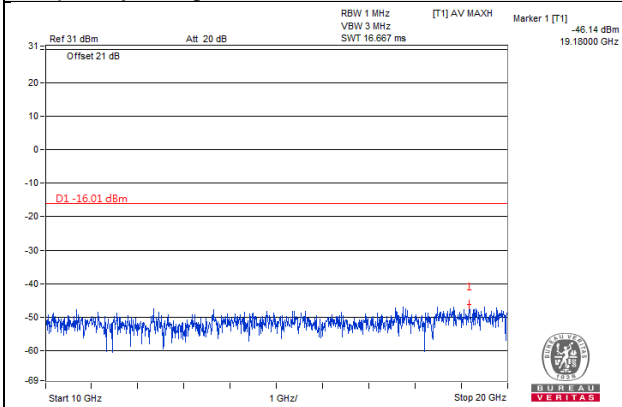
Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

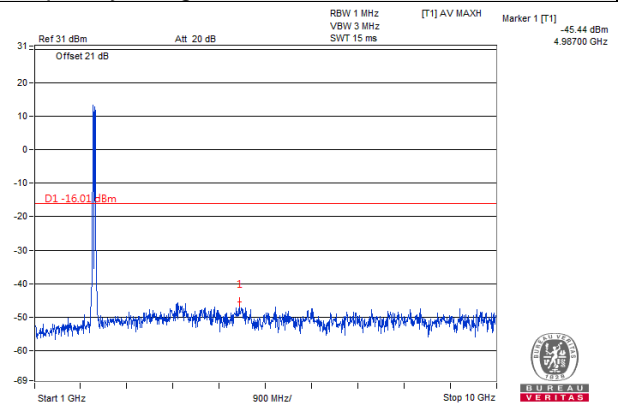
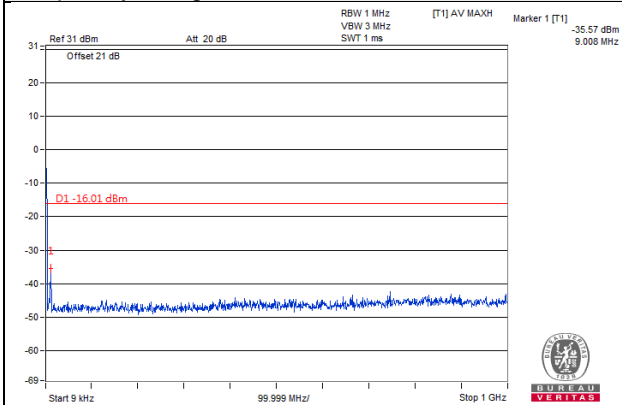
Frequency Range : 10GHz~30GHz



Channel 66586+66986

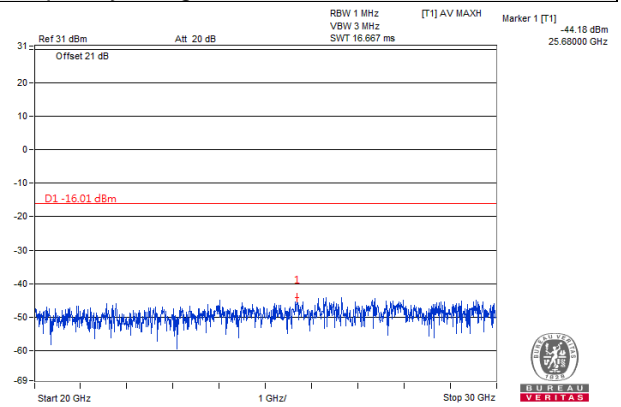
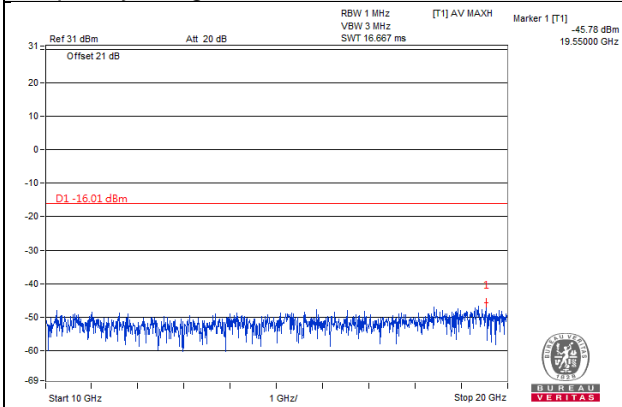
Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

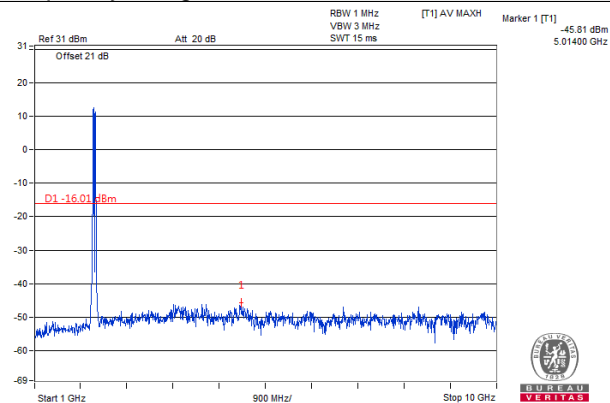
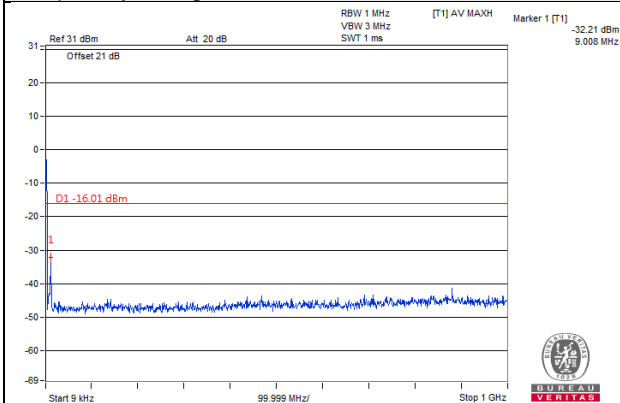
Frequency Range : 10GHz~30GHz



Channel 66636+67036

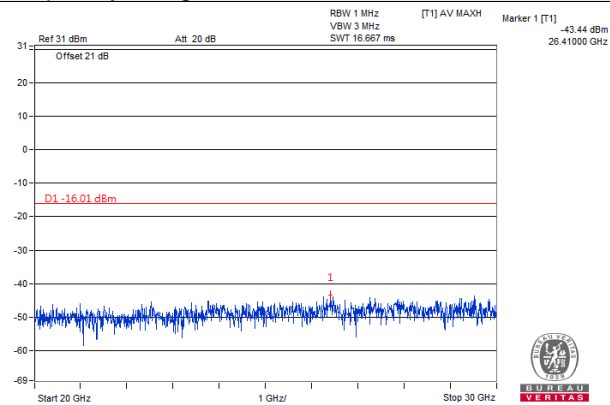
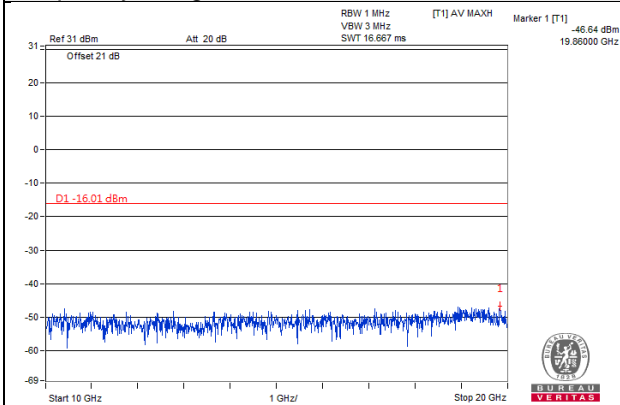
Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

Frequency Range : 10GHz~30GHz

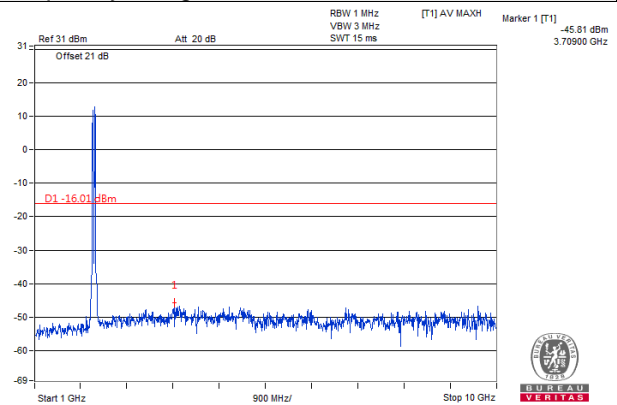
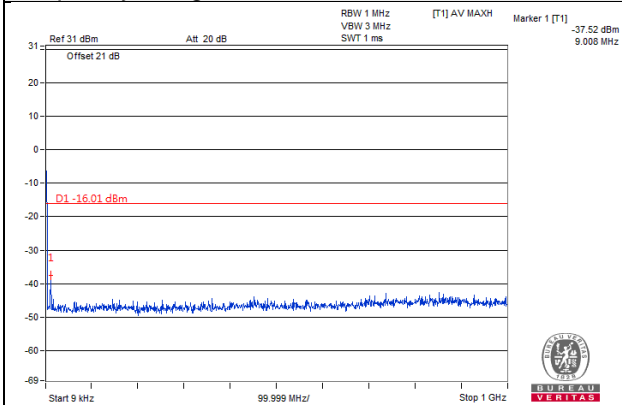


20MHz+20MHz Non-Contiguous GAP 20MHz Chain 1

Channel 66536+66936

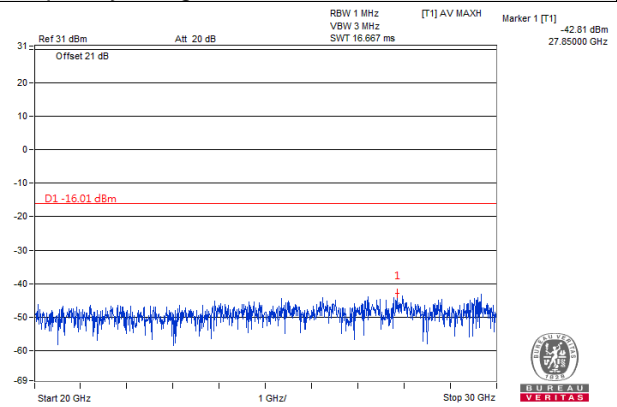
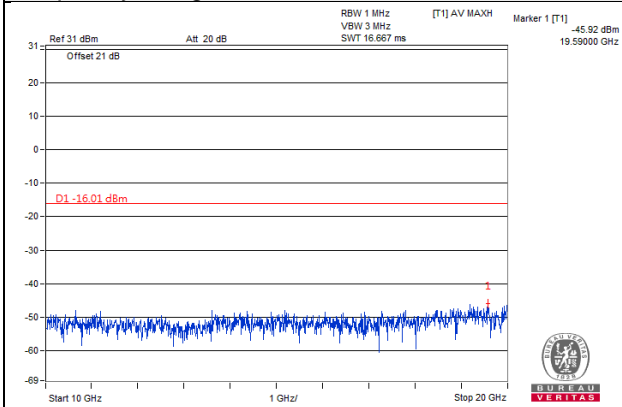
Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

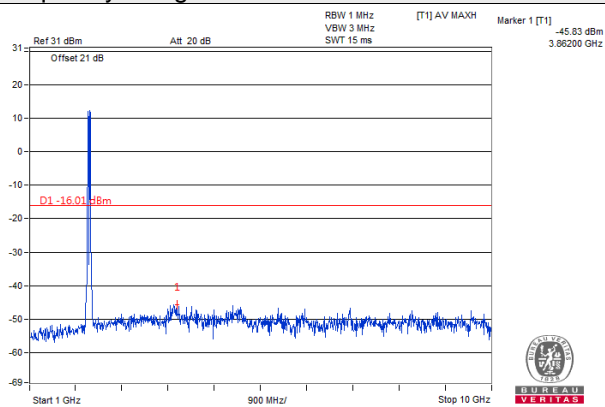
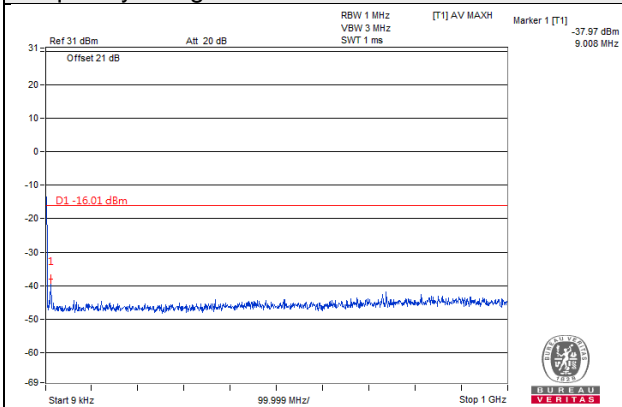
Frequency Range : 10GHz~30GHz



Channel 66586+66986

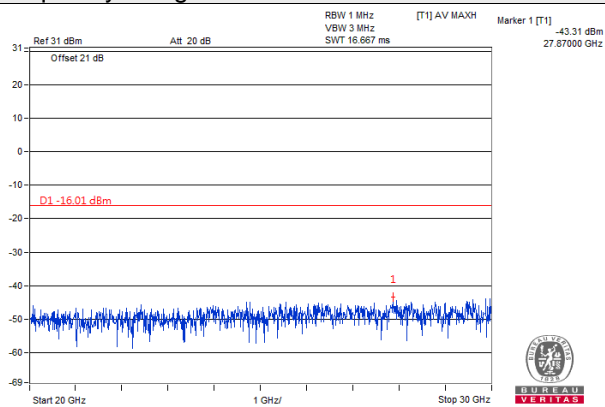
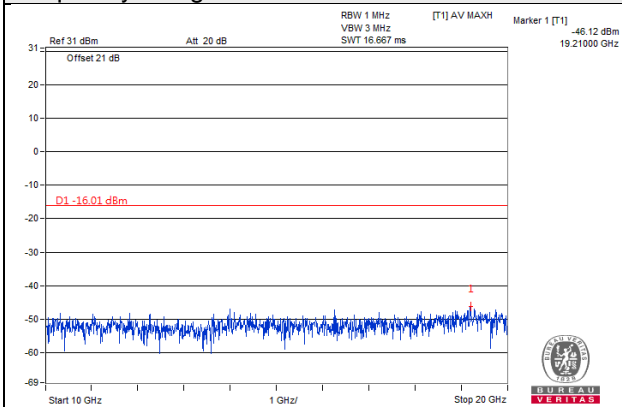
Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

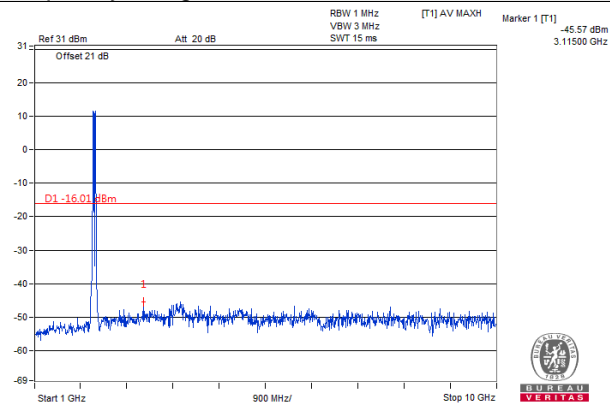
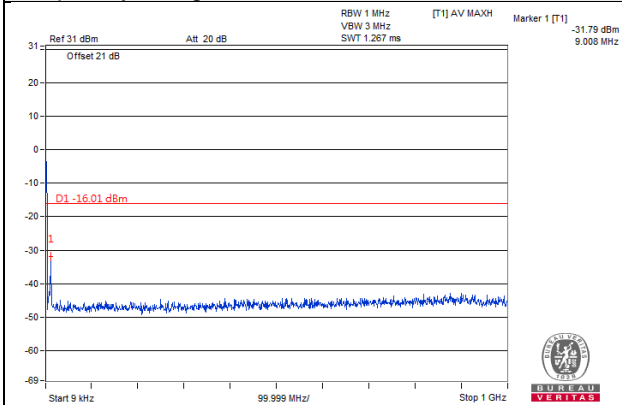
Frequency Range : 10GHz~30GHz



Channel 66636+67036

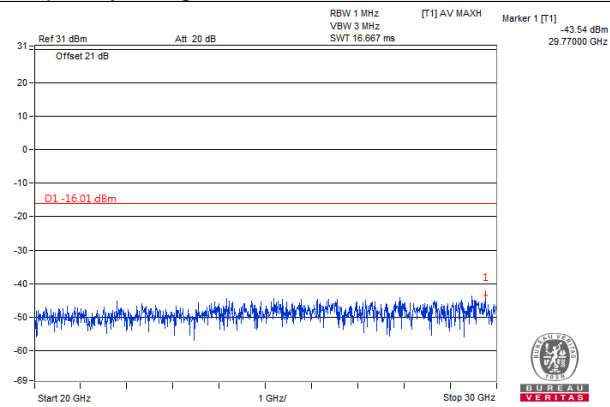
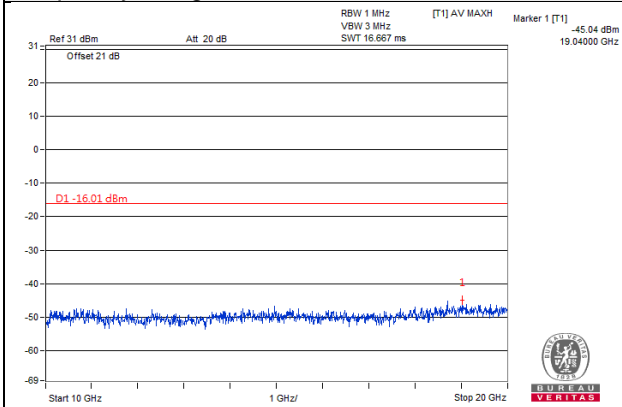
Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

Frequency Range : 10GHz~30GHz

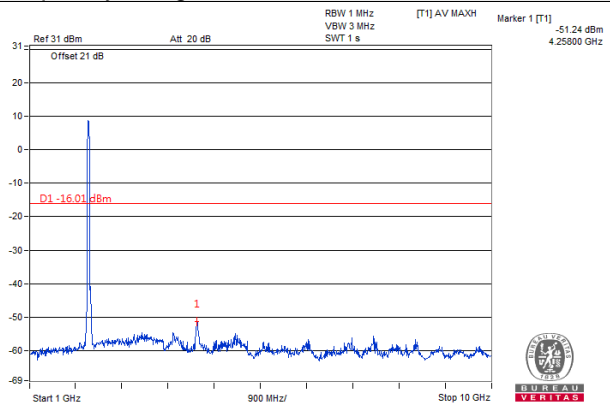
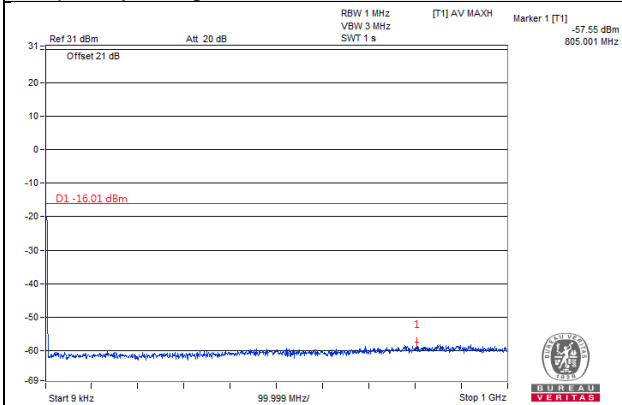


20MHz+20MHz Contiguous Chain 0

Channel 66536+66736

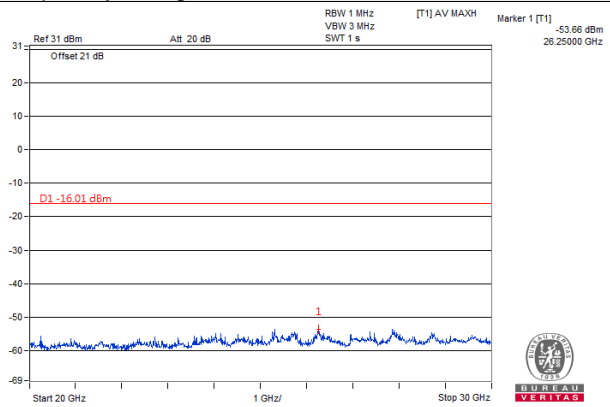
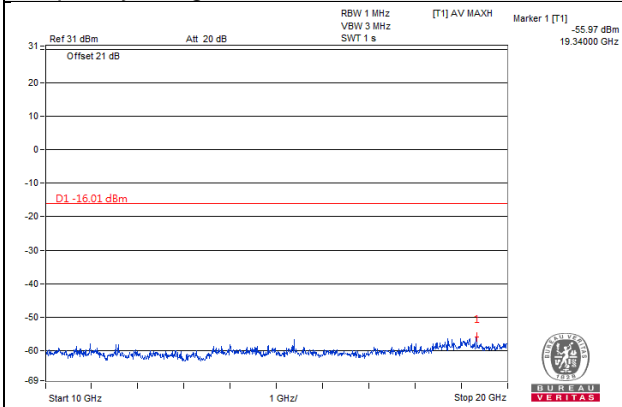
Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

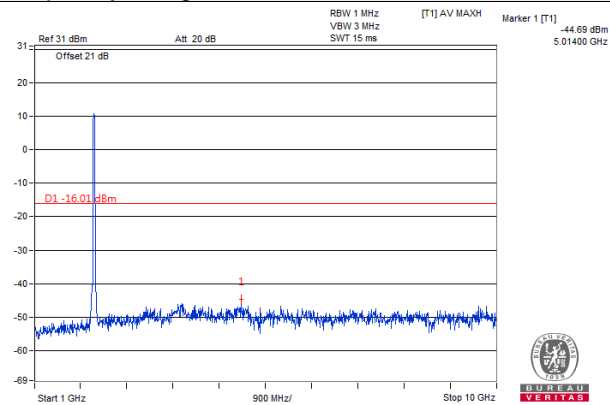
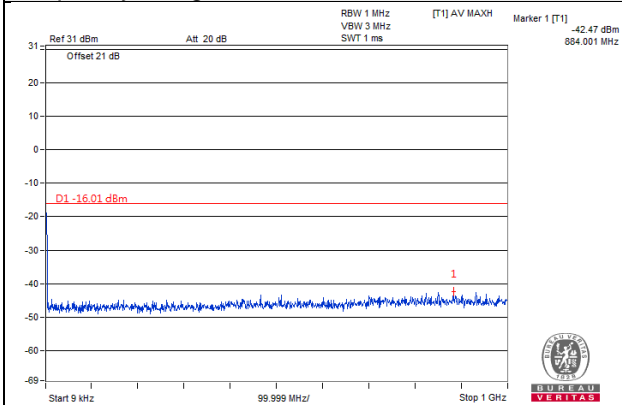
Frequency Range : 10GHz~30GHz



Channel 66686+66886

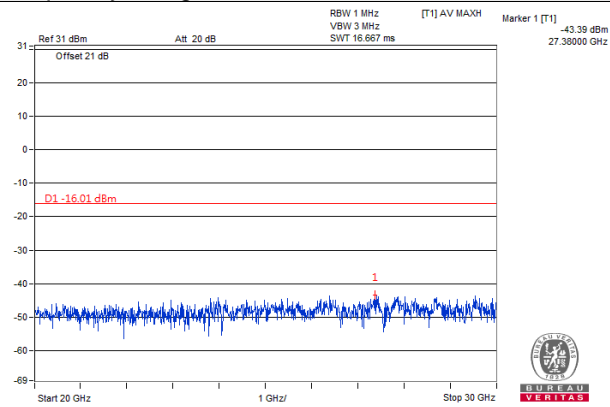
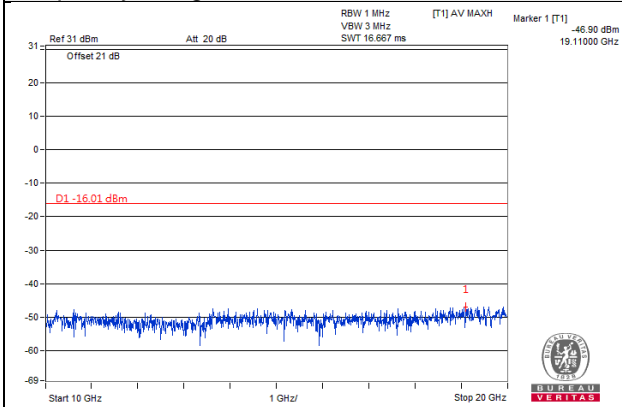
Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

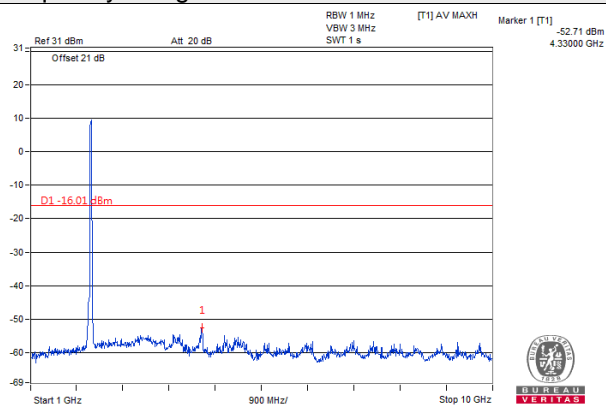
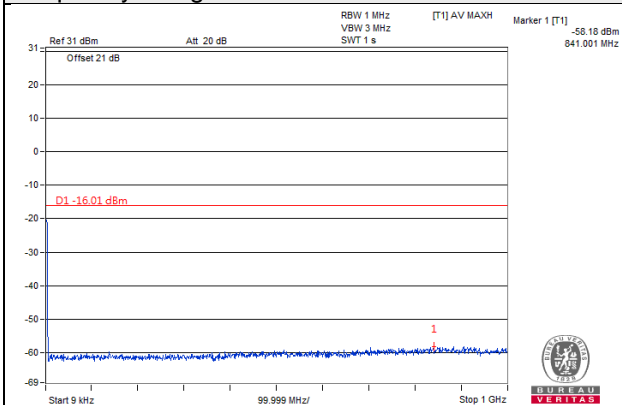
Frequency Range : 10GHz~30GHz



Channel 66836+67036

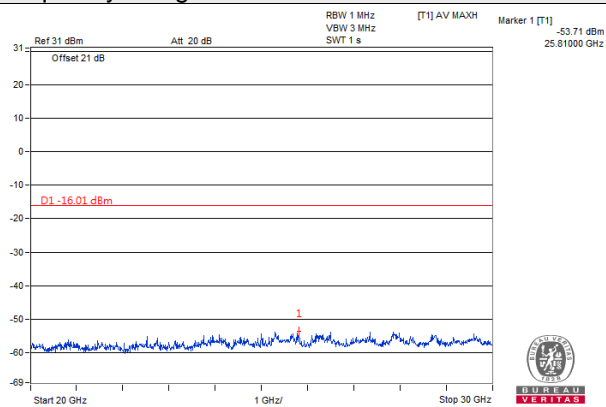
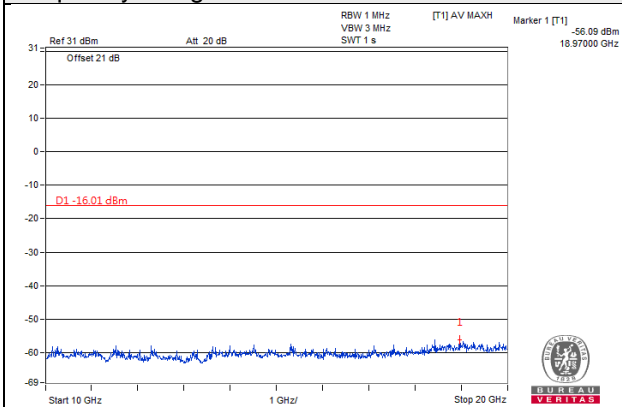
Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

Frequency Range : 10GHz~30GHz

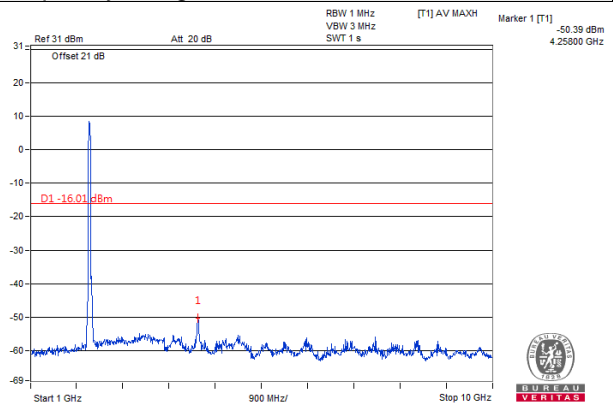
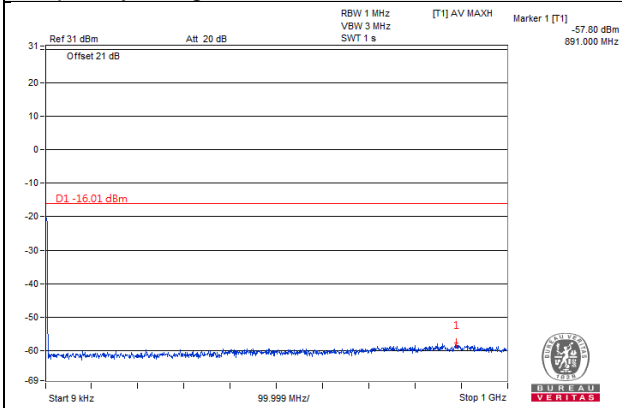


20MHz+20MHz Contiguous Chain 1

Channel 66536+66736

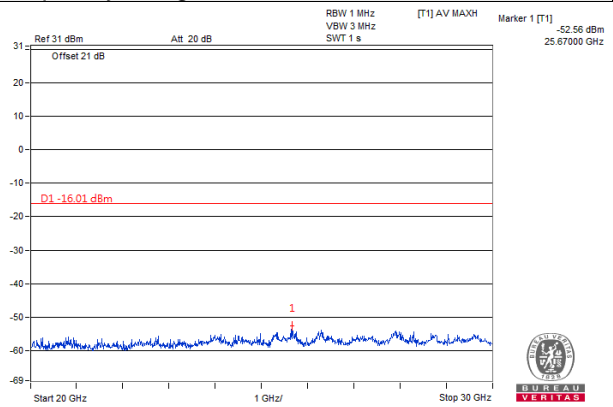
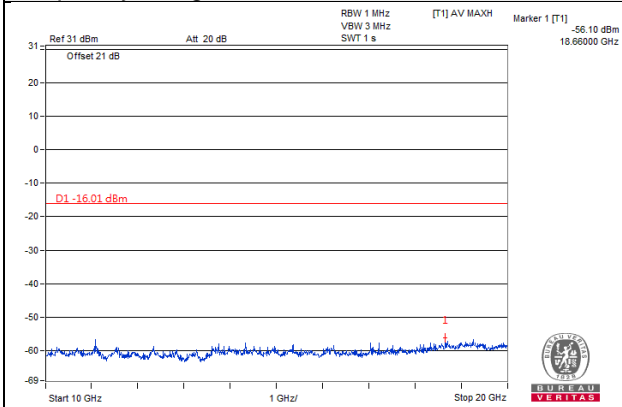
Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

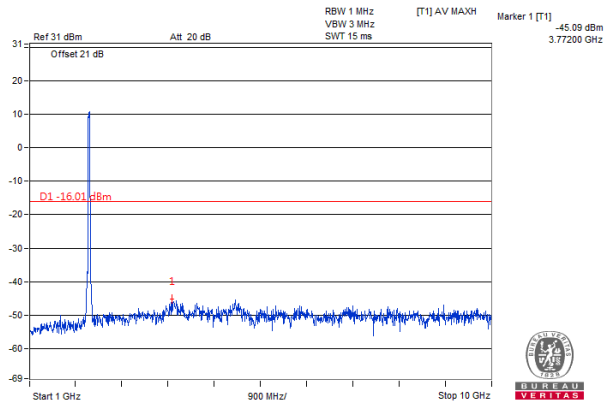
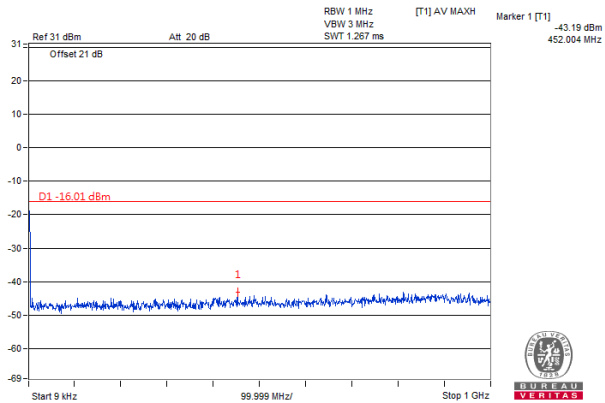
Frequency Range : 10GHz~30GHz



Channel 66686+66886

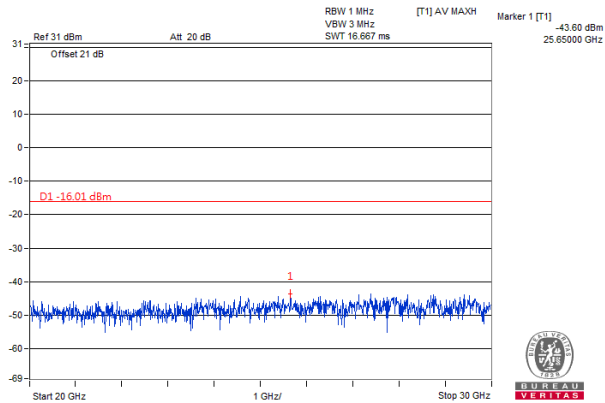
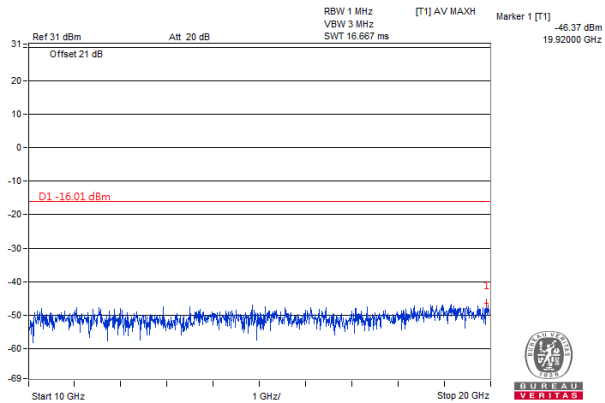
Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

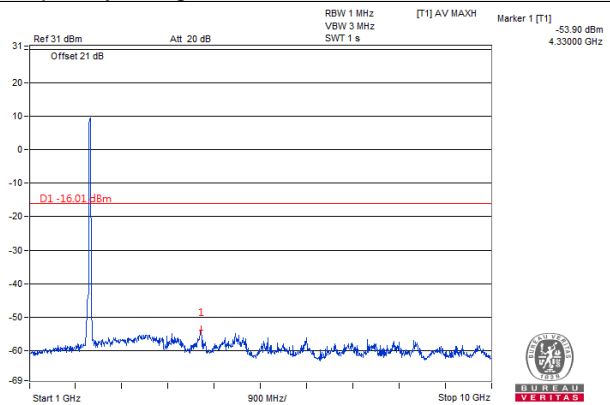
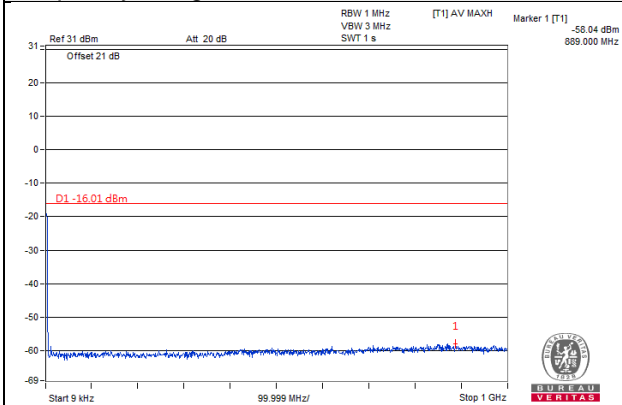
Frequency Range : 10GHz~30GHz



Channel 66836+67036

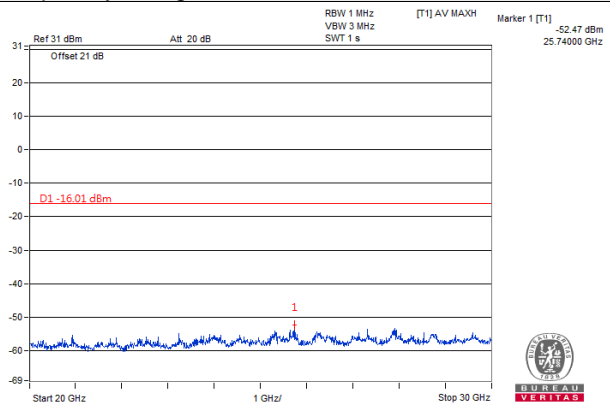
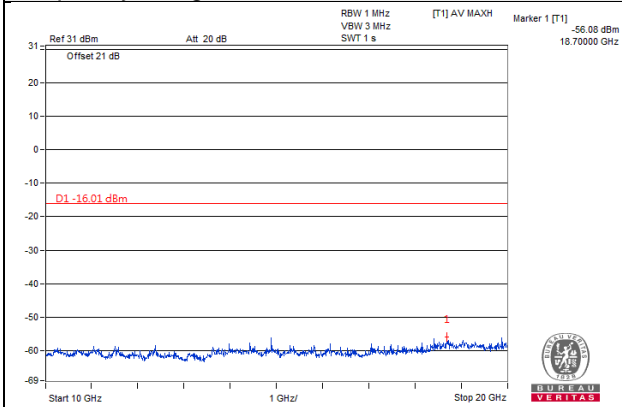
Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

Frequency Range : 10GHz~30GHz



4.8 Radiated Emission Measurement

4.8.1 Limits of Radiated Emission Measurement

In the FCC 27.53(h), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, the emission limit equal to -13dBm .

4.8.2 Test Procedure

- a. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high channel of operational frequency range.)
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step b. Record the power level of S.G
- d. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution antenna}$.

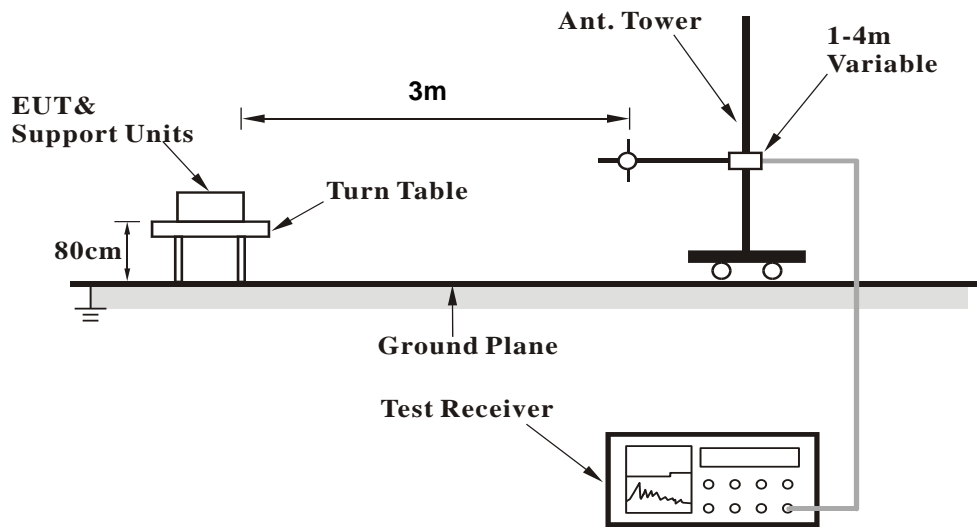
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.8.3 Deviation from Test Standard

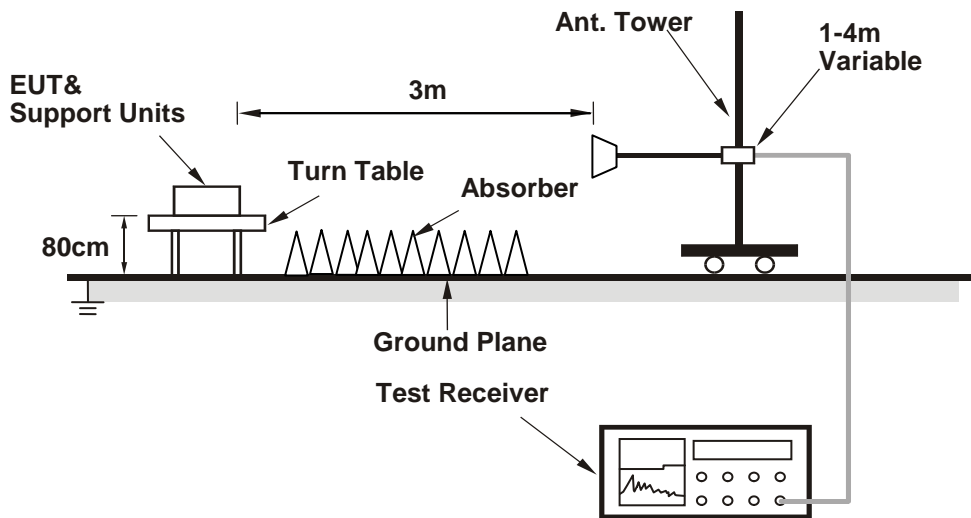
No deviation.

4.8.4 Test Setup

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.8.5 Test Results

Below 1GHz

10MHz+15MHz Non-Contiguous GAP 15MHz

Test Frequency	2135+2162.5 MHz	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	150.6	34.28	-56.62	-0.99	-57.60	-13	-44.60
2	241.46	30.45	-64.85	3.83	-61.02	-13	-48.02
3	336.52	31.42	-65.93	3.67	-62.26	-13	-49.26
4	432.55	28.43	-69.68	2.99	-66.69	-13	-53.69
5	526.64	31.19	-64.01	2.69	-61.32	-13	-48.32
6	803.09	32.60	-65.87	1.52	-64.35	-13	-51.35

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	132.28	31.51	-60.75	-1.26	-62.01	-13	-49.01
2	251.64	30.59	-64.31	3.91	-60.40	-13	-47.40
3	304.82	29.84	-66.14	3.70	-62.44	-13	-49.44
4	411.52	32.16	-65.78	3.21	-62.57	-13	-49.57
5	671.18	29.89	-65.67	1.69	-63.98	-13	-50.98
6	739.19	30.11	-66.26	0.99	-65.27	-13	-52.27

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

10MHz+15MHz Non-Contiguous GAP 20MHz

Test Frequency	2130+2162.5 MHz	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	151.56	35.17	-55.45	-0.96	-56.41	-13	-43.41
2	241.59	31.02	-64.27	3.83	-60.45	-13	-47.45
3	336.15	30.94	-66.39	3.67	-62.72	-13	-49.72
4	433.42	28.66	-69.46	2.98	-66.48	-13	-53.48
5	527.39	31.77	-63.43	2.69	-60.74	-13	-47.74
6	803.46	32.80	-65.64	1.52	-64.12	-13	-51.12

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	133.13	30.71	-61.74	-1.27	-63.00	-13	-50.00
2	251.56	30.97	-63.93	3.91	-60.03	-13	-47.03
3	305.09	30.02	-65.97	3.70	-62.27	-13	-49.27
4	411	32.46	-65.47	3.22	-62.26	-13	-49.26
5	670.72	30.24	-65.31	1.69	-63.62	-13	-50.62
6	739.95	30.33	-66.04	0.98	-65.06	-13	-52.06

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

20MHz+20MHz Non-Contiguous GAP 20MHz

Test Frequency	2120+2160 MHz	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	149.73	33.87	-57.28	-1.01	-58.29	-13	-45.29
2	240.53	30.25	-65.08	3.82	-61.27	-13	-48.27
3	336.36	31.21	-66.13	3.67	-62.46	-13	-49.46
4	431.69	27.52	-70.58	3.00	-67.59	-13	-54.59
5	527.38	30.48	-64.72	2.69	-62.03	-13	-49.03
6	802.44	31.78	-66.74	1.53	-65.22	-13	-52.22

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	133.17	31.38	-61.08	-1.27	-62.34	-13	-49.34
2	250.75	30.65	-64.29	3.90	-60.38	-13	-47.38
3	304.45	29.10	-66.87	3.70	-63.17	-13	-50.17
4	411.68	31.25	-66.69	3.21	-63.48	-13	-50.48
5	671.48	30.34	-65.23	1.69	-63.54	-13	-50.54
6	739.25	30.37	-66.00	0.99	-65.01	-13	-52.01

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Test Frequency	2125+2165 MHz	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	150.51	35.23	-55.70	-0.99	-56.68	-13	-43.68
2	241.66	30.25	-65.04	3.83	-61.21	-13	-48.21
3	335.94	32.40	-64.92	3.67	-61.25	-13	-48.25
4	432.42	27.94	-70.17	2.99	-67.18	-13	-54.18
5	525.71	31.11	-64.11	2.70	-61.41	-13	-48.41
6	802.88	32.96	-65.53	1.52	-64.01	-13	-51.01

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	132.85	31.76	-60.63	-1.26	-61.89	-13	-48.89
2	252.59	31.59	-63.27	3.92	-59.36	-13	-46.36
3	304.78	29.04	-66.94	3.70	-63.24	-13	-50.24
4	412.31	31.64	-66.30	3.20	-63.10	-13	-50.10
5	671.8	29.66	-65.92	1.69	-64.23	-13	-51.23
6	740.04	29.42	-66.95	0.97	-65.97	-13	-52.97

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Test Frequency	2130+2170 MHz	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	150.3	33.35	-57.64	-0.99	-58.63	-13	-45.63
2	241.01	29.73	-65.59	3.82	-61.76	-13	-48.76
3	337.02	32.11	-65.26	3.67	-61.59	-13	-48.59
4	432.56	28.77	-69.34	2.99	-66.35	-13	-53.35
5	526.62	30.85	-64.35	2.69	-61.66	-13	-48.66
6	802.19	32.20	-66.34	1.53	-64.81	-13	-51.81

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	133.64	31.92	-60.64	-1.27	-61.91	-13	-48.91
2	252.68	32.29	-62.57	3.92	-58.65	-13	-45.65
3	305.71	29.06	-66.96	3.70	-63.26	-13	-50.26
4	412.38	30.97	-66.98	3.20	-63.77	-13	-50.77
5	671.88	29.37	-66.21	1.69	-64.52	-13	-51.52
6	740.7	29.91	-66.46	0.96	-65.49	-13	-52.49

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

20MHz+20MHz Contiguous

Test Frequency	2120+2140 MHz	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	151.17	34.25	-56.49	-0.97	-57.45	-13	-44.45
2	240.56	31.12	-64.21	3.82	-60.39	-13	-47.39
3	337.12	31.66	-65.71	3.67	-62.04	-13	-49.04
4	432.46	28.11	-70.00	2.99	-67.01	-13	-54.01
5	527.6	30.20	-64.99	2.68	-62.31	-13	-49.31
6	803.02	32.63	-65.85	1.52	-64.33	-13	-51.33

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	132.14	32.44	-59.79	-1.26	-61.05	-13	-48.05
2	252.37	29.66	-65.21	3.91	-61.30	-13	-48.30
3	304.49	29.01	-66.96	3.70	-63.26	-13	-50.26
4	412.61	32.57	-65.38	3.20	-62.18	-13	-49.18
5	671.17	30.07	-65.49	1.69	-63.80	-13	-50.80
6	740.23	29.91	-66.46	0.97	-65.49	-13	-52.49

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Test Frequency	2135+2155 MHz	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	151.03	34.41	-56.37	-0.97	-57.34	-13	-44.34
2	241.1	30.70	-64.61	3.82	-60.79	-13	-47.79
3	336.39	32.09	-65.25	3.67	-61.58	-13	-48.58
4	432.64	27.94	-70.17	2.99	-67.18	-13	-54.18
5	528.6	30.41	-64.77	2.68	-62.09	-13	-49.09
6	802.69	33.38	-65.12	1.52	-63.60	-13	-50.60

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	130.78	33.05	-58.89	-1.25	-60.14	-13	-47.14
2	252.66	29.93	-64.93	3.92	-61.01	-13	-48.01
3	304.55	28.25	-67.72	3.70	-64.02	-13	-51.02
4	411.23	32.82	-65.12	3.21	-61.90	-13	-48.90
5	672.04	29.52	-66.07	1.69	-64.38	-13	-51.38
6	739.13	29.22	-67.15	0.99	-66.16	-13	-53.16

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Test Frequency	2150+2170 MHz	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	150.42	33.29	-57.66	-0.99	-58.65	-13	-45.65
2	239.88	31.19	-64.17	3.81	-60.36	-13	-47.36
3	338.1	32.12	-65.30	3.67	-61.63	-13	-48.63
4	432.42	28.74	-69.37	2.99	-66.38	-13	-53.38
5	526.74	30.69	-64.51	2.69	-61.82	-13	-48.82
6	803.28	31.94	-66.52	1.52	-65.00	-13	-52.00

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	131.37	31.97	-60.10	-1.26	-61.35	-13	-48.35
2	252.4	29.65	-65.22	3.91	-61.31	-13	-48.31
3	304.16	29.62	-66.34	3.70	-62.63	-13	-49.63
4	412.04	33.21	-64.73	3.21	-61.53	-13	-48.53
5	672.16	29.36	-66.23	1.69	-64.54	-13	-51.54
6	739.43	29.89	-66.48	0.98	-65.49	-13	-52.49

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Above 1GHz

10MHz+15MHz Non-Contiguous GAP 15MHz

Test Frequency	2135+2162.5 MHz	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4270	41.03	-63.72	7.41	-56.32	-13	-43.32
2	4325	40.57	-64.13	7.38	-56.75	-13	-43.75
3	6405	46.75	-57.39	6.09	-51.30	-13	-38.30
4	6487.5	49.36	-54.78	5.95	-48.83	-13	-35.83
5	8540	47.15	-55.49	4.21	-51.28	-13	-38.28
6	8650	47.35	-55.35	4.23	-51.12	-13	-38.12

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4270	36.70	-68.05	7.41	-60.65	-13	-47.65
2	4325	34.13	-70.57	7.38	-63.19	-13	-50.19
3	6405	51.10	-53.04	6.09	-46.95	-13	-33.95
4	6487.5	44.59	-59.55	5.95	-53.60	-13	-40.60
5	8540	50.26	-52.38	4.21	-48.17	-13	-35.17
6	8650	51.92	-50.78	4.23	-46.55	-13	-33.55

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

10MHz+15MHz Non-Contiguous GAP 20MHz

Test Frequency	2130+2162.5 MHz	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4260	40.97	-63.79	7.41	-56.38	-13	-43.38
2	4325	39.89	-64.81	7.38	-57.43	-13	-44.43
3	6390	47.45	-56.69	6.11	-50.58	-13	-37.58
4	6487.5	49.70	-54.44	5.95	-48.49	-13	-35.49
5	8520	47.34	-55.29	4.21	-51.08	-13	-38.08
6	8650	46.91	-55.79	4.23	-51.56	-13	-38.56

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4260	36.17	-68.59	7.41	-61.18	-13	-48.18
2	4325	34.69	-70.01	7.38	-62.63	-13	-49.63
3	6390	50.14	-54.00	6.11	-47.89	-13	-34.89
4	6487.5	44.99	-59.15	5.95	-53.20	-13	-40.20
5	8520	50.04	-52.59	4.21	-48.38	-13	-35.38
6	8650	52.41	-50.29	4.23	-46.06	-13	-33.06

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

20MHz+20MHz Non-Contiguous GAP 20MHz

Test Frequency	2120+2160 MHz	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4240	40.53	-64.26	7.42	-56.84	-13	-43.84
2	4320	39.45	-65.25	7.38	-57.87	-13	-44.87
3	6360	47.82	-56.32	6.16	-50.16	-13	-37.16
4	6480	50.47	-53.67	5.96	-47.71	-13	-34.71
5	8480	46.52	-56.09	4.21	-51.88	-13	-38.88
6	8640	46.72	-55.98	4.23	-51.75	-13	-38.75

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4240	36.33	-68.46	7.42	-61.04	-13	-48.04
2	4320	34.14	-70.56	7.38	-63.18	-13	-50.18
3	6360	50.34	-53.80	6.16	-47.64	-13	-34.64
4	6480	45.84	-58.30	5.96	-52.34	-13	-39.34
5	8480	50.30	-52.31	4.21	-48.10	-13	-35.10
6	8640	52.36	-50.34	4.23	-46.11	-13	-33.11

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Test Frequency	2125+2165 MHz	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4250	41.86	-62.92	7.41	-55.50	-13	-42.50
2	4330	38.98	-65.71	7.38	-58.33	-13	-45.33
3	6375	46.76	-57.38	6.14	-51.24	-13	-38.24
4	6495	50.30	-53.84	5.94	-47.90	-13	-34.90
5	8500	47.19	-55.43	4.21	-51.22	-13	-38.22
6	8660	46.30	-56.41	4.23	-52.17	-13	-39.17

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4250	36.17	-68.61	7.41	-61.19	-13	-48.19
2	4330	34.69	-70.00	7.38	-62.62	-13	-49.62
3	6375	50.14	-54.00	6.14	-47.86	-13	-34.86
4	6495	44.99	-59.15	5.94	-53.21	-13	-40.21
5	8500	50.04	-52.58	4.21	-48.37	-13	-35.37
6	8660	52.41	-50.30	4.23	-46.06	-13	-33.06

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Test Frequency	2130+2170 MHz	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4260	40.97	-63.79	7.41	-56.38	-13	-43.38
2	4340	39.89	-64.79	7.38	-57.42	-13	-44.42
3	6390	47.45	-56.69	6.11	-50.58	-13	-37.58
4	6510	49.70	-54.40	5.91	-48.49	-13	-35.49
5	8520	47.34	-55.29	4.21	-51.08	-13	-38.08
6	8680	46.91	-55.81	4.23	-51.57	-13	-38.57

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4260	36.17	-68.59	7.41	-61.18	-13	-48.18
2	4340	34.69	-69.99	7.38	-62.62	-13	-49.62
3	6390	50.14	-54.00	6.11	-47.89	-13	-34.89
4	6510	44.99	-59.11	5.91	-53.20	-13	-40.20
5	8520	50.04	-52.59	4.21	-48.38	-13	-35.38
6	8680	52.41	-50.31	4.23	-46.07	-13	-33.07

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

20MHz+20MHz Contiguous

Test Frequency	2120+2140 MHz	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4260	41.13	-63.63	7.41	-56.22	-13	-43.22
2	6390	46.65	-57.49	6.11	-51.38	-13	-38.38
3	8520	47.06	-55.57	4.21	-51.36	-13	-38.36

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4260	36.15	-68.61	7.41	-61.20	-13	-48.20
2	6390	51.39	-52.75	6.11	-46.64	-13	-33.64
3	8520	50.26	-52.37	4.21	-48.16	-13	-35.16

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Test Frequency	2135+2155 MHz	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4290	40.36	-64.37	7.40	-56.98	-13	-43.98
2	6435	47.44	-56.70	6.04	-50.66	-13	-37.66
3	8580	47.10	-55.56	4.22	-51.34	-13	-38.34

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4290	36.92	-67.81	7.40	-60.42	-13	-47.42
2	6435	51.24	-52.90	6.04	-46.86	-13	-33.86
3	8580	49.27	-53.39	4.22	-49.17	-13	-36.17

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Test Frequency	2150+2170 MHz	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4320	40.59	-64.11	7.38	-56.73	-13	-43.73
2	6480	46.13	-58.01	5.96	-52.05	-13	-39.05
3	8640	47.52	-55.18	4.23	-50.95	-13	-37.95

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBuV/m)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	4320	36.27	-68.43	7.38	-61.05	-13	-48.05
2	6480	50.86	-53.28	5.96	-47.32	-13	-34.32
3	8640	50.44	-52.26	4.23	-48.03	-13	-35.03

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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