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Appendix for 15.407

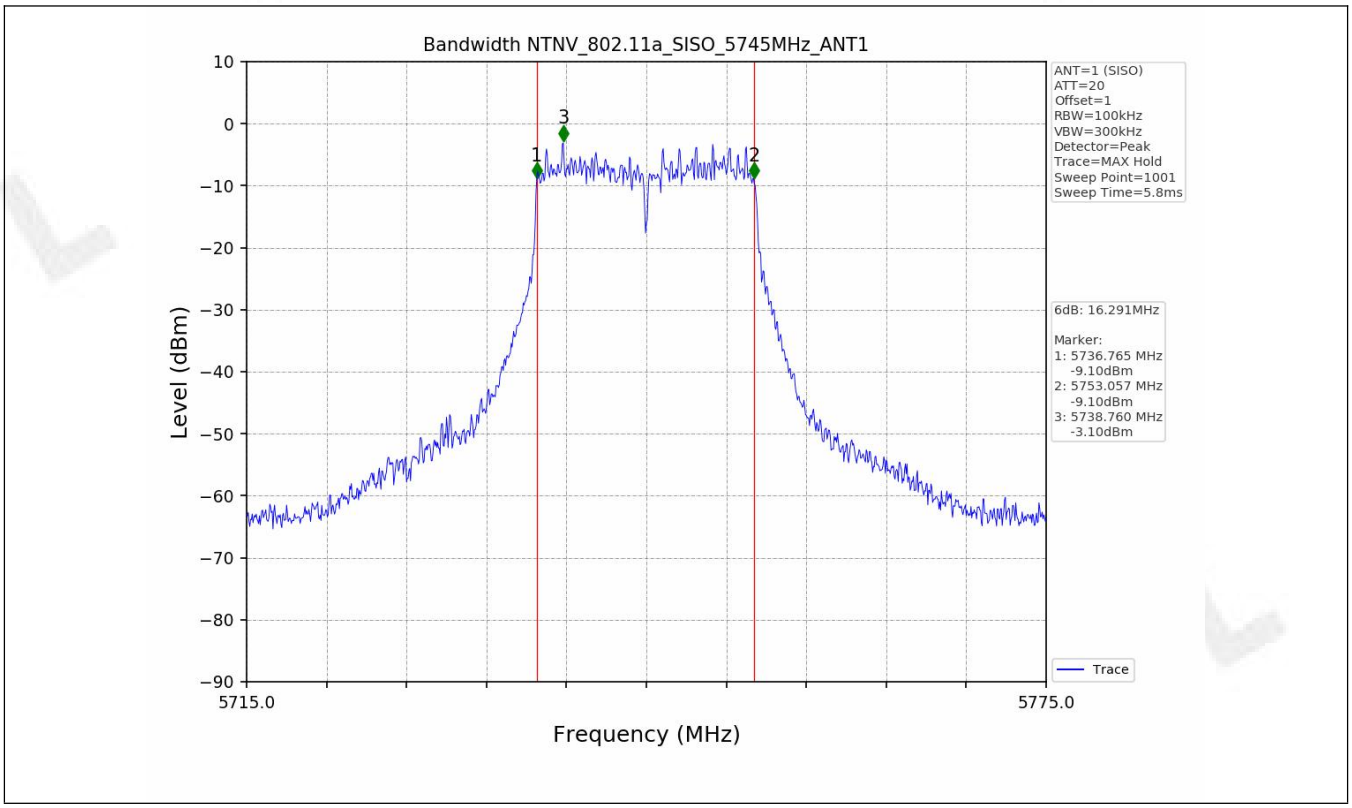
1. Bandwidth

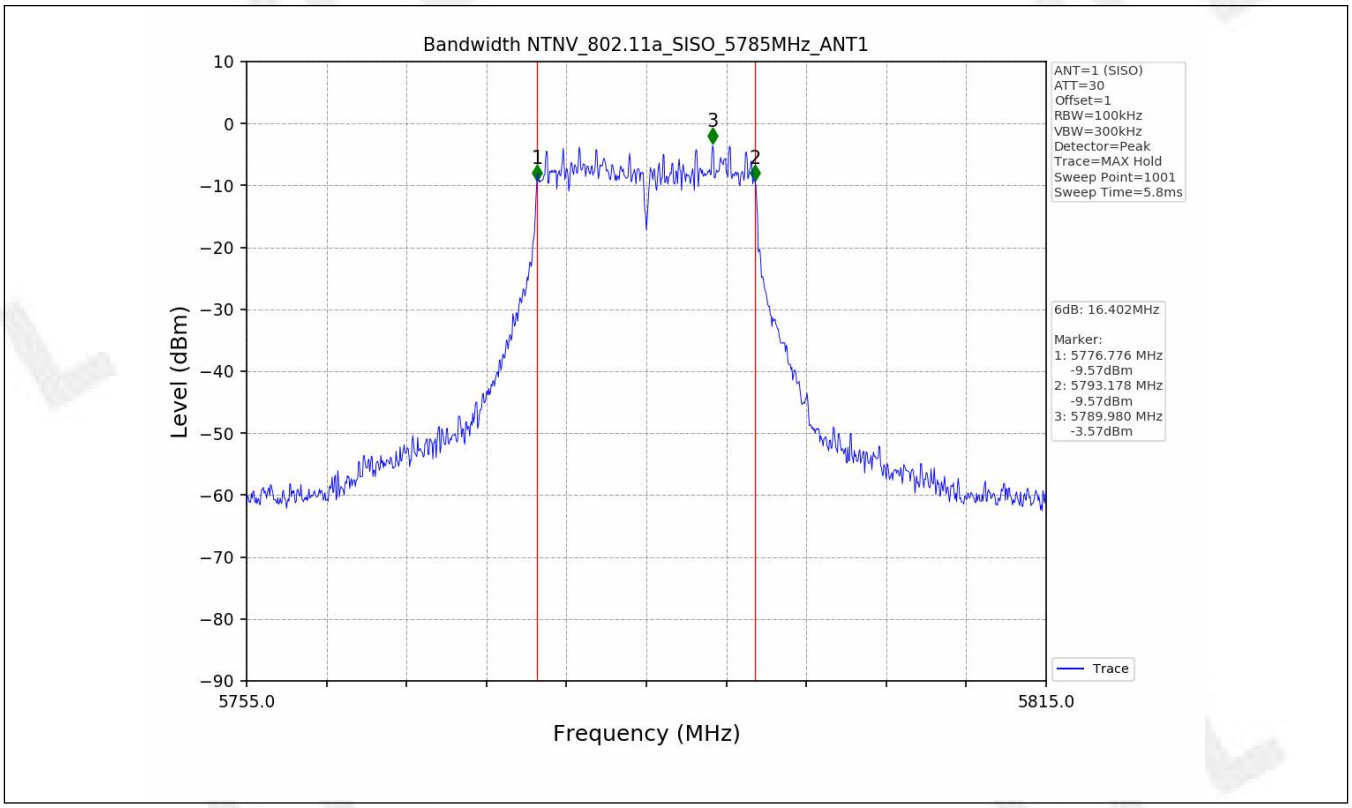
1.1 Test Result

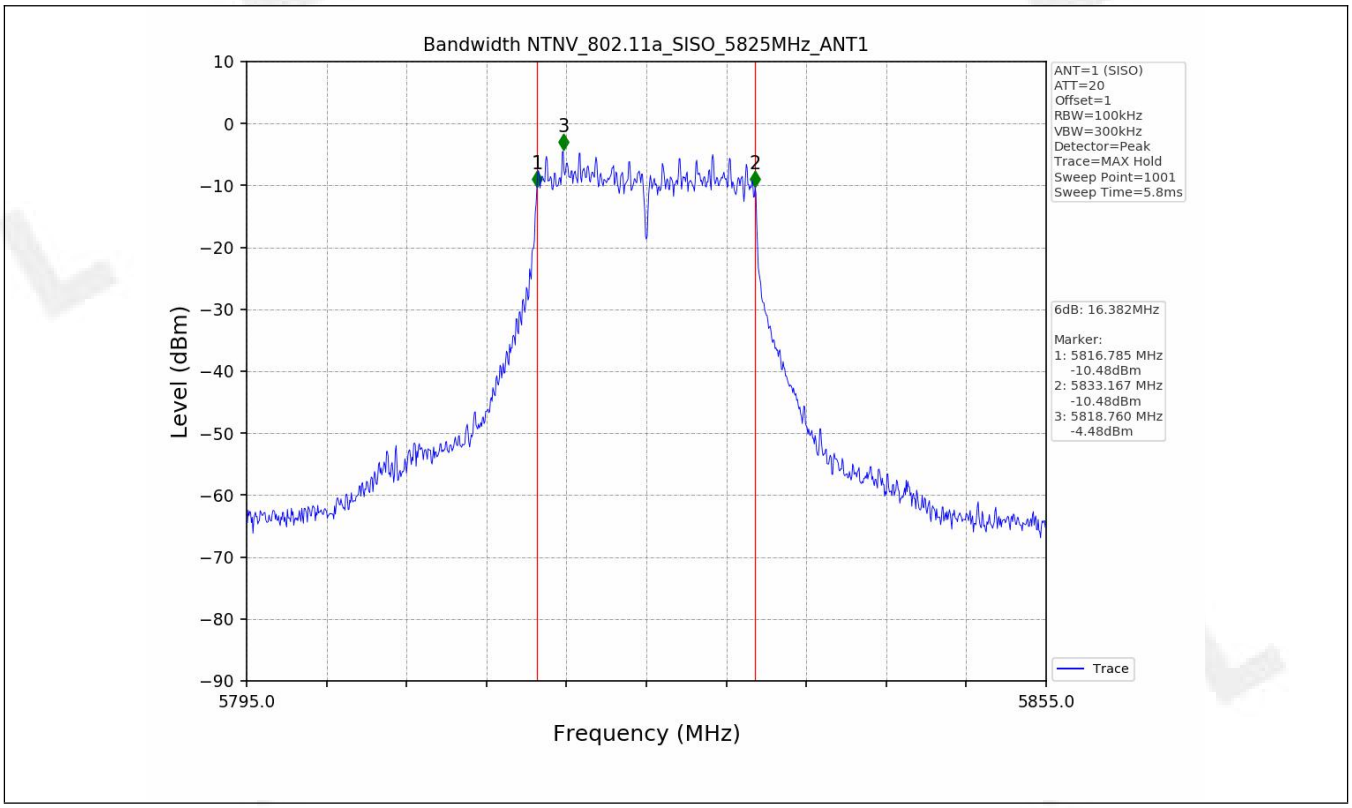
Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11a	5745	SISO	1	16.291	≥0.5	PASS
	5785	SISO	1	16.402	≥0.5	PASS
	5825	SISO	1	16.382	≥0.5	PASS
802.11n(HT20)	5745	SISO	1	17.086	≥0.5	PASS
	5785	SISO	1	17.134	≥0.5	PASS
	5825	SISO	1	16.195	≥0.5	PASS
802.11n(HT40)	5755	SISO	1	35.107	≥0.5	PASS
	5795	SISO	1	35.089	≥0.5	PASS
802.11ac(VHT20)	5745	SISO	1	16.945	≥0.5	PASS
	5785	SISO	1	17.080	≥0.5	PASS
	5825	SISO	1	16.365	≥0.5	PASS
802.11ac(VHT40)	5755	SISO	1	35.263	≥0.5	PASS
	5795	SISO	1	35.238	≥0.5	PASS
802.11ac(VHT80)	5775	SISO	1	75.041	≥0.5	PASS

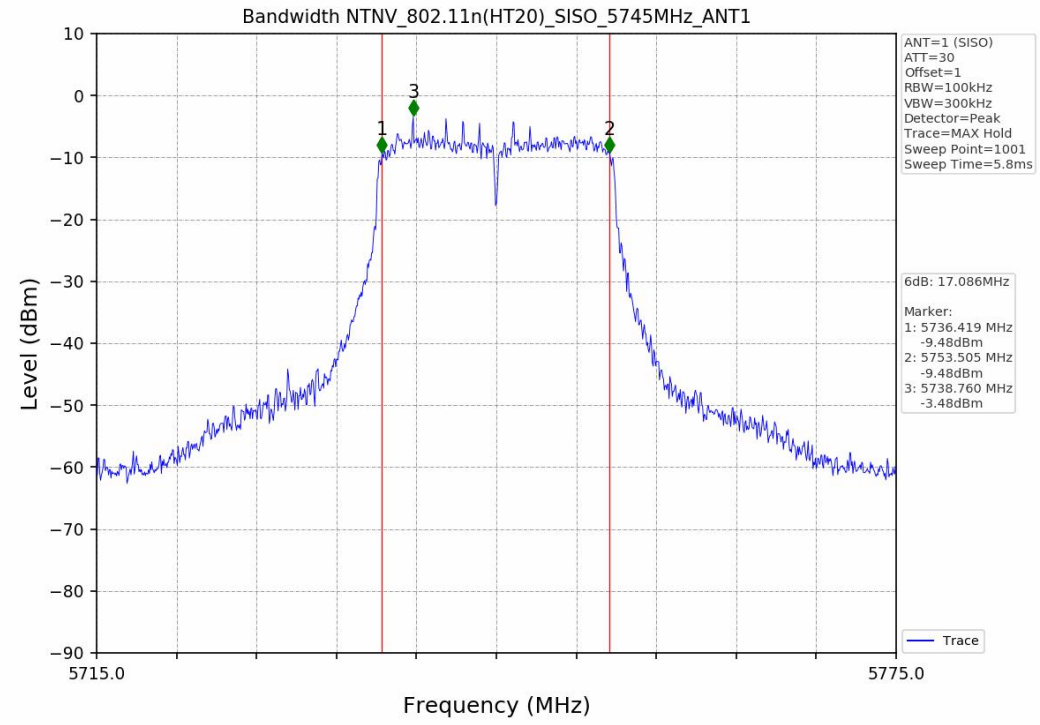
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11a	5745	SISO	1	16.654	Only for Report Use
	5785	SISO	1	16.826	Only for Report Use
	5825	SISO	1	16.611	Only for Report Use
802.11n(HT20)	5745	SISO	1	17.688	Only for Report Use
	5785	SISO	1	17.683	Only for Report Use
	5825	SISO	1	17.680	Only for Report Use
802.11n(HT40)	5755	SISO	1	36.165	Only for Report Use
	5795	SISO	1	36.246	Only for Report Use
802.11ac(VHT20)	5745	SISO	1	17.714	Only for Report Use
	5785	SISO	1	17.626	Only for Report Use
	5825	SISO	1	17.708	Only for Report Use
802.11ac(VHT40)	5755	SISO	1	36.190	Only for Report Use
	5795	SISO	1	36.121	Only for Report Use
802.11ac(VHT80)	5775	SISO	1	75.005	Only for Report Use

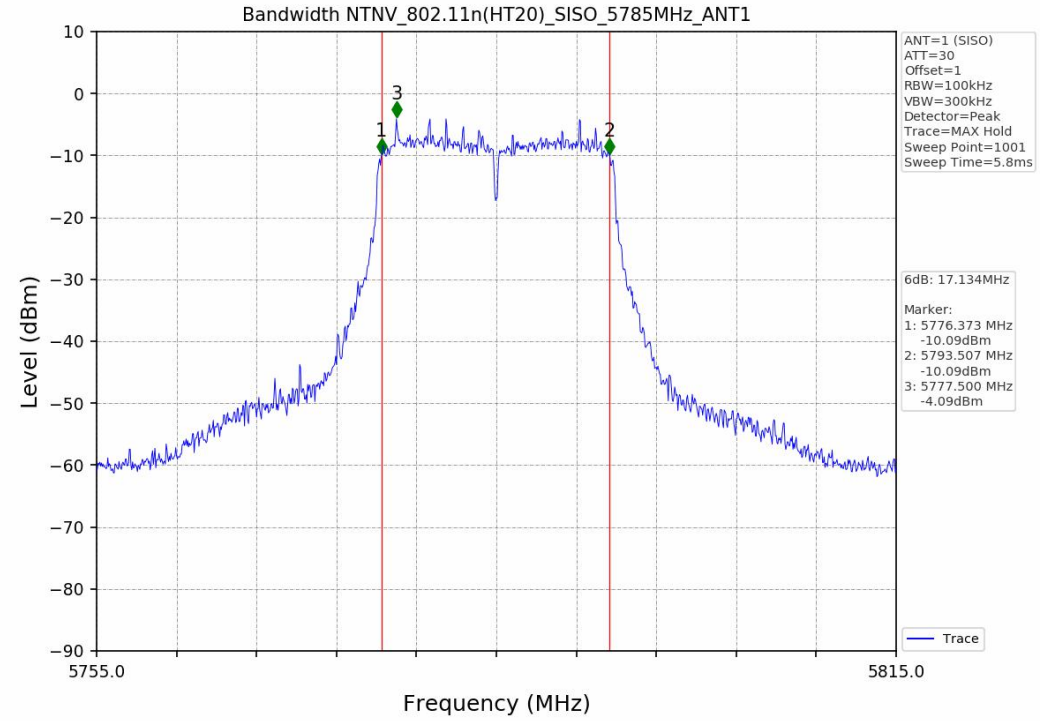
1.2 Test Graph - Emission Bandwidth

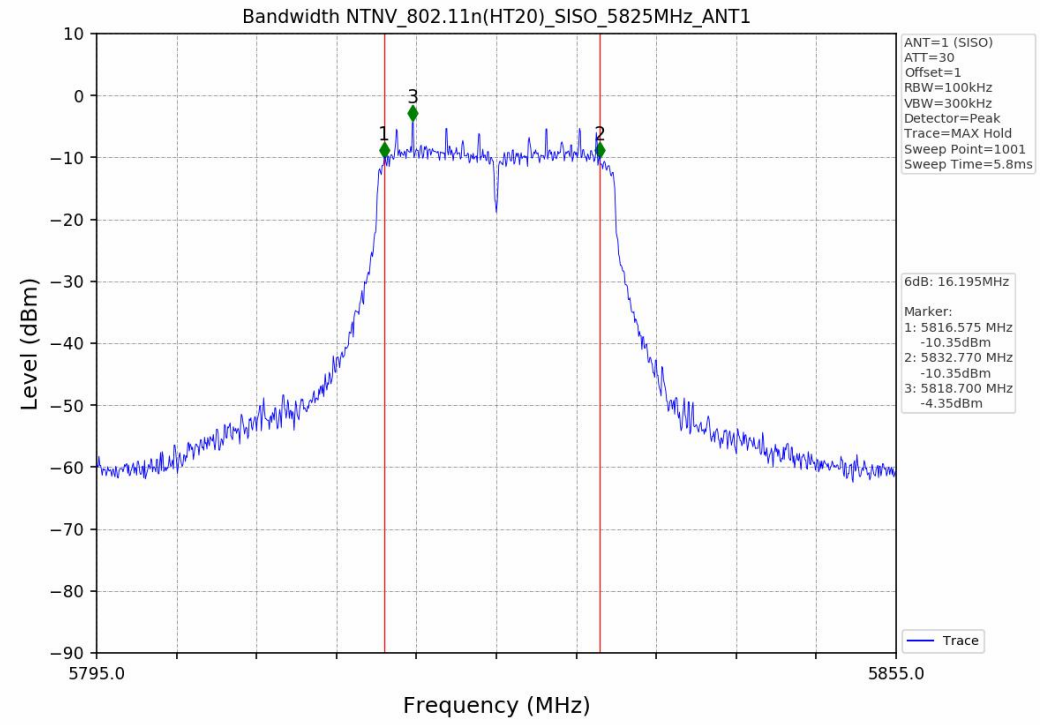


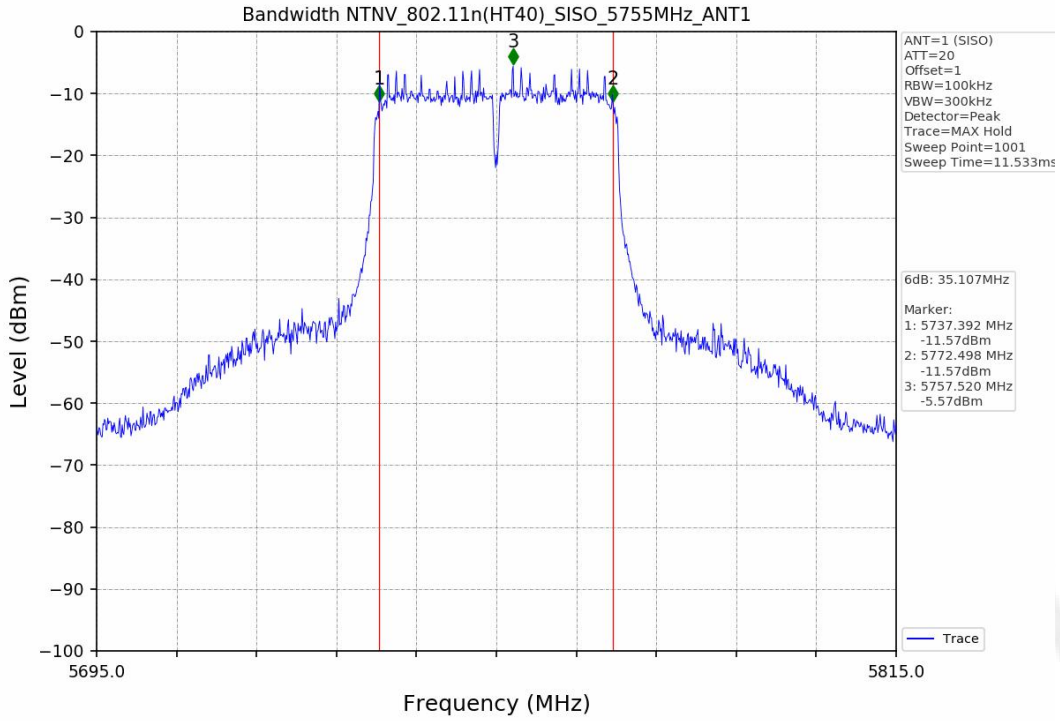

Bandwidth NTNV_802.11a_SISO_5785MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=5.8ms
6dB: 16.402MHz
Marker:
1: 5776.776 MHz
-9.57dBm
2: 5793.178 MHz
-9.57dBm
3: 5789.980 MHz
-3.57dBm
Trace
Level (dBm)
Frequency (MHz)
5755.0
5815.0

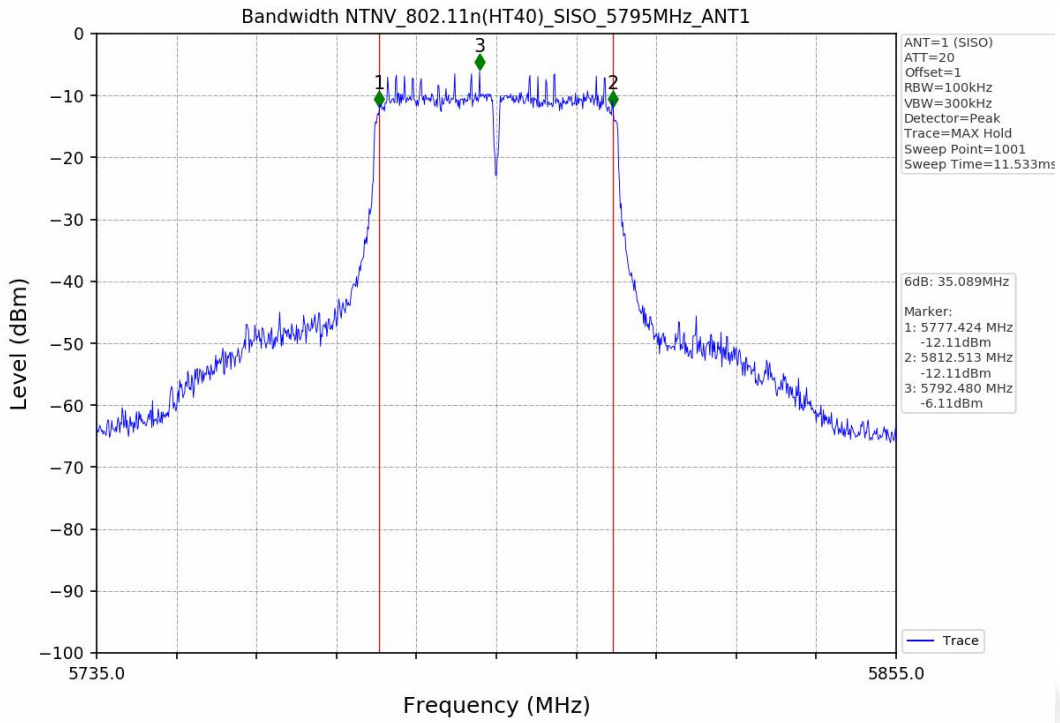

Bandwidth NTNV_802.11a_SISO_5825MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=5.8ms
6dB: 16.382MHz
Marker:
1: 5816.785 MHz
-10.48dBm
2: 5833.167 MHz
-10.48dBm
3: 5818.760 MHz
-4.48dBm
Trace
Level (dBm)
Frequency (MHz)
5795.0
5855.0

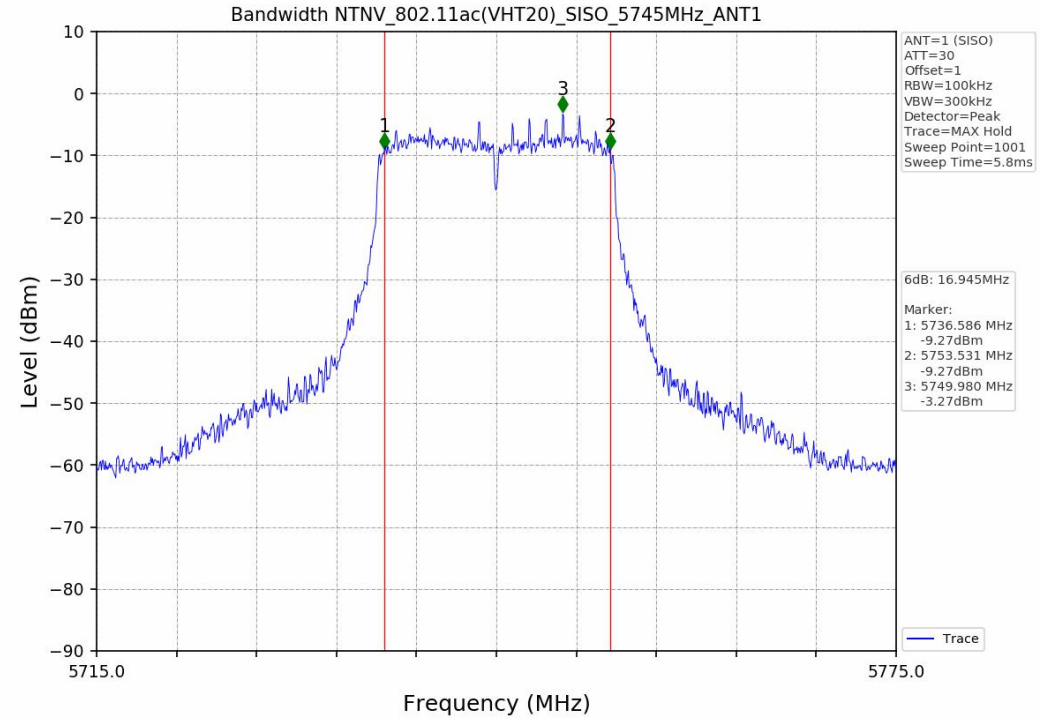

Bandwidth NTNV_802.11n(HT20)_SISO_5745MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=5.8ms
6dB: 17.086MHz
Marker:
1: 5736.419 MHz
-9.48dBm
2: 5753.505 MHz
-9.48dBm
3: 5738.760 MHz
-3.48dBm
Trace
Level (dBm)
Frequency (MHz)
5715.0
5775.0

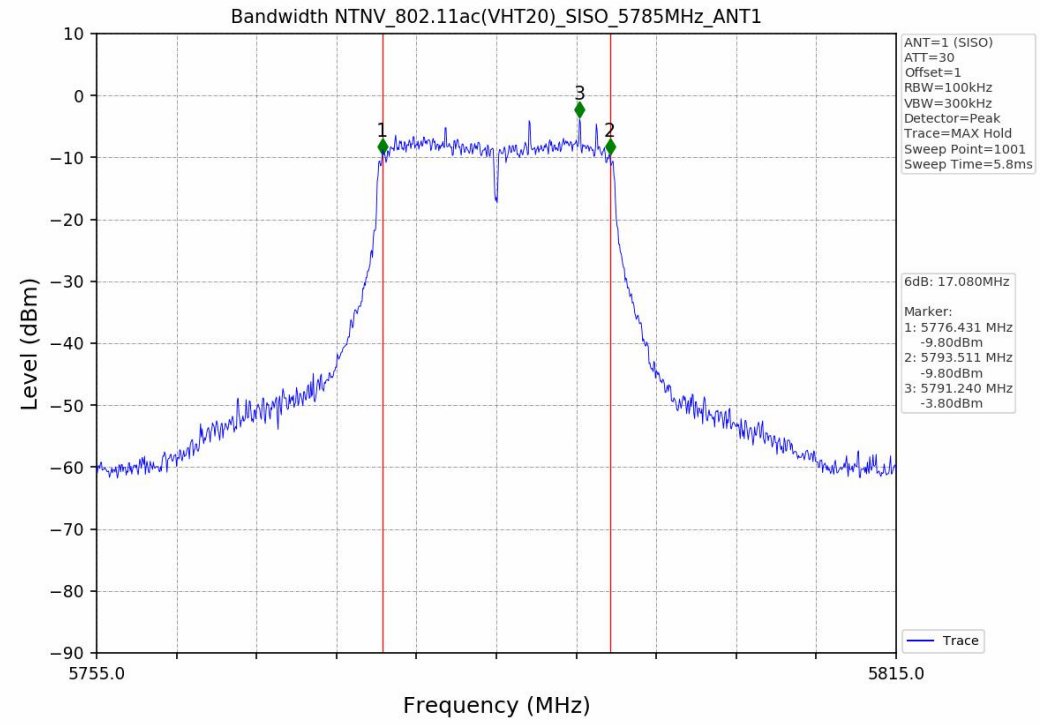

Bandwidth NTNV_802.11n(HT20)_SISO_5785MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=5.8ms
6dB: 17.134MHz
Marker:
1: 5776.373 MHz
-10.09dBm
2: 5793.507 MHz
-10.09dBm
3: 5777.500 MHz
-4.09dBm
Trace
Level (dBm)
Frequency (MHz)
5755.0
5815.0

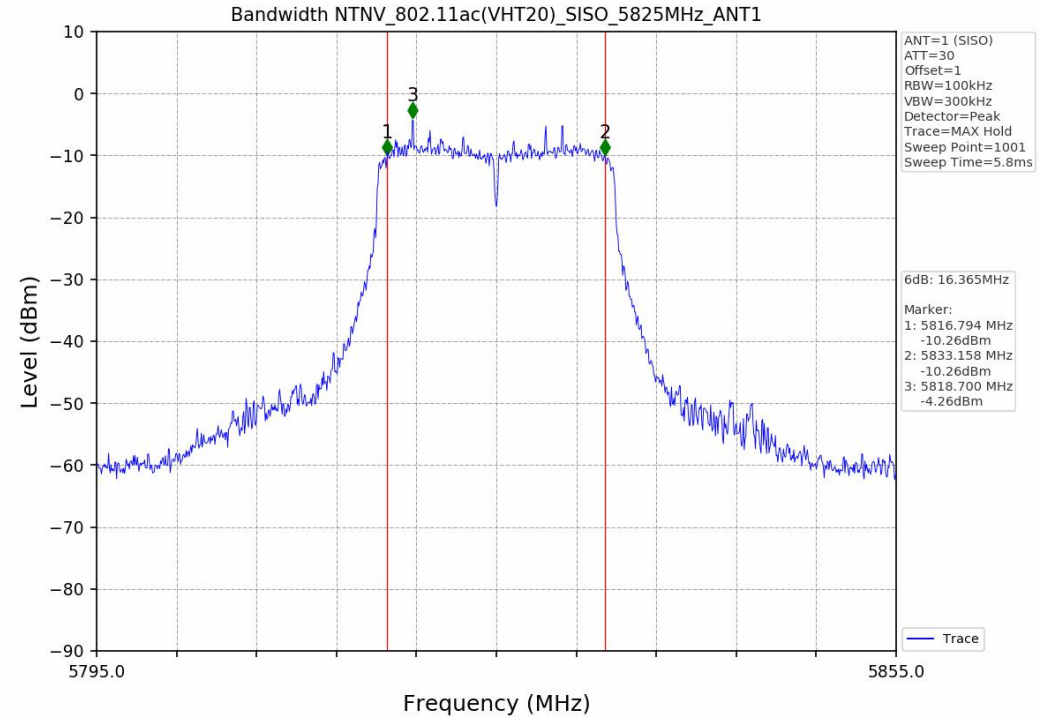

Bandwidth NTNV_802.11n(HT20)_SISO_5825MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=5.8ms
6dB: 16.195MHz
Marker:
1: 5816.575 MHz
-10.35dBm
2: 5832.770 MHz
-10.35dBm
3: 5818.700 MHz
-4.35dBm
Trace
Level (dBm)
Frequency (MHz)
5795.0
5855.0

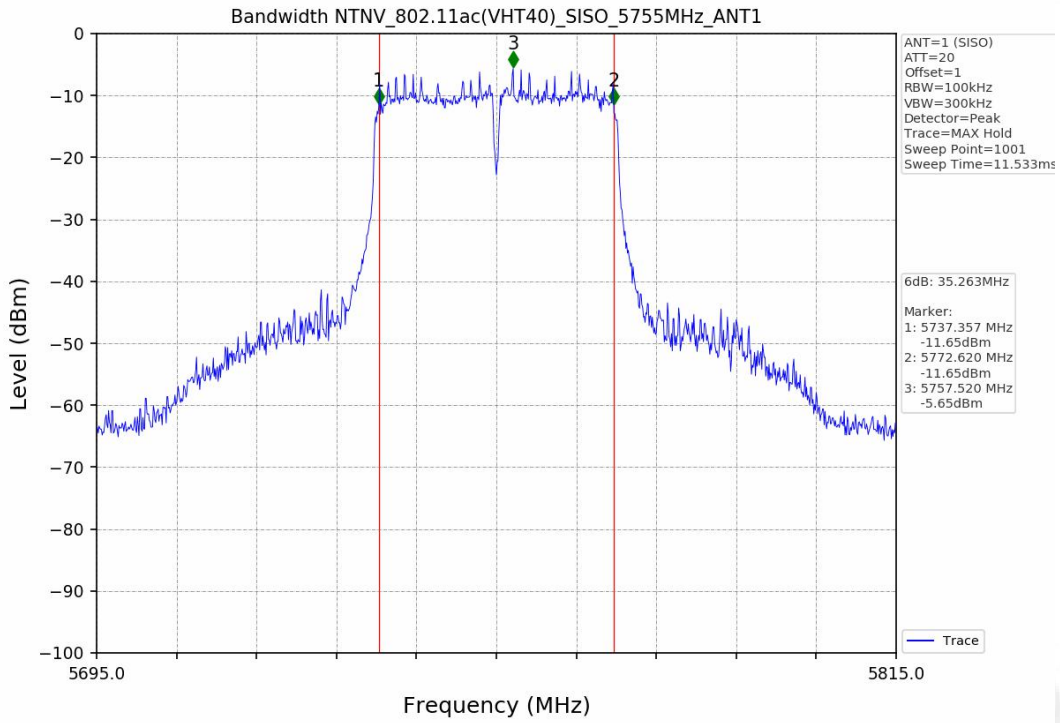

Bandwidth NTNV_802.11n(HT40)_SISO_5755MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=11.533ms
6dB: 35.107MHz
Marker:
1: 5737.392 MHz
-11.57dBm
2: 5772.498 MHz
-11.57dBm
3: 5757.520 MHz
-5.57dBm
Trace
Level (dBm)
Frequency (MHz)
5695.0
5815.0

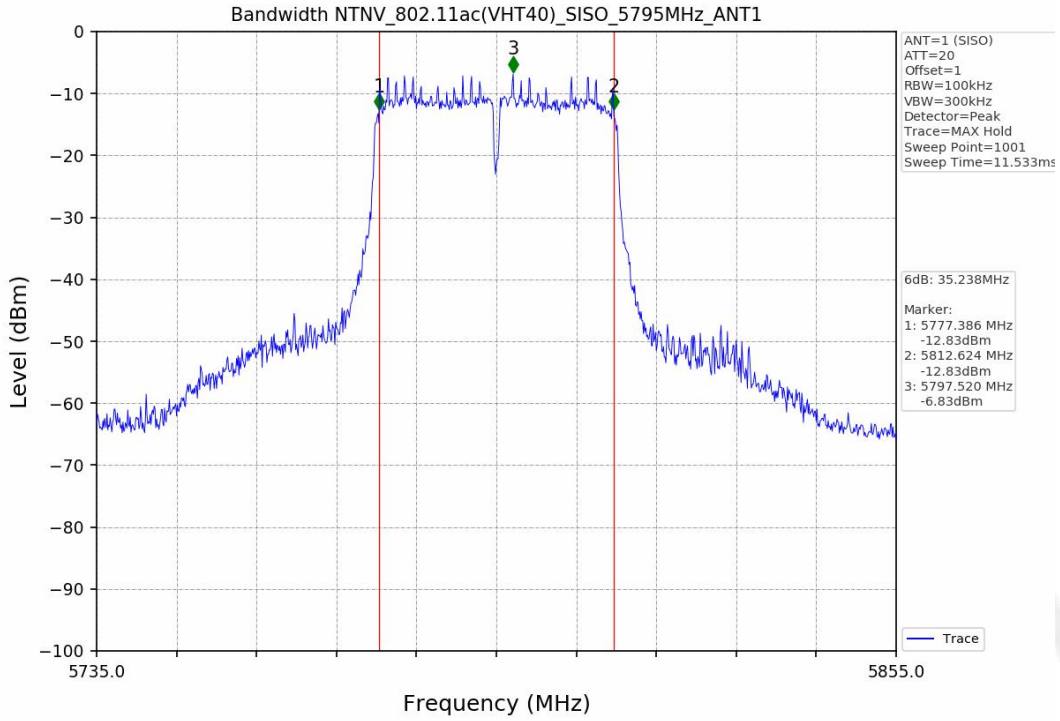

Bandwidth NTNV_802.11n(HT40)_SISO_5795MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=11.533ms
6dB: 35.089MHz
Marker:
1: 5777.424 MHz
-12.11dBm
2: 5812.513 MHz
-12.11dBm
3: 5792.480 MHz
-6.11dBm
Trace
Level (dBm)
Frequency (MHz)
5735.0
5855.0

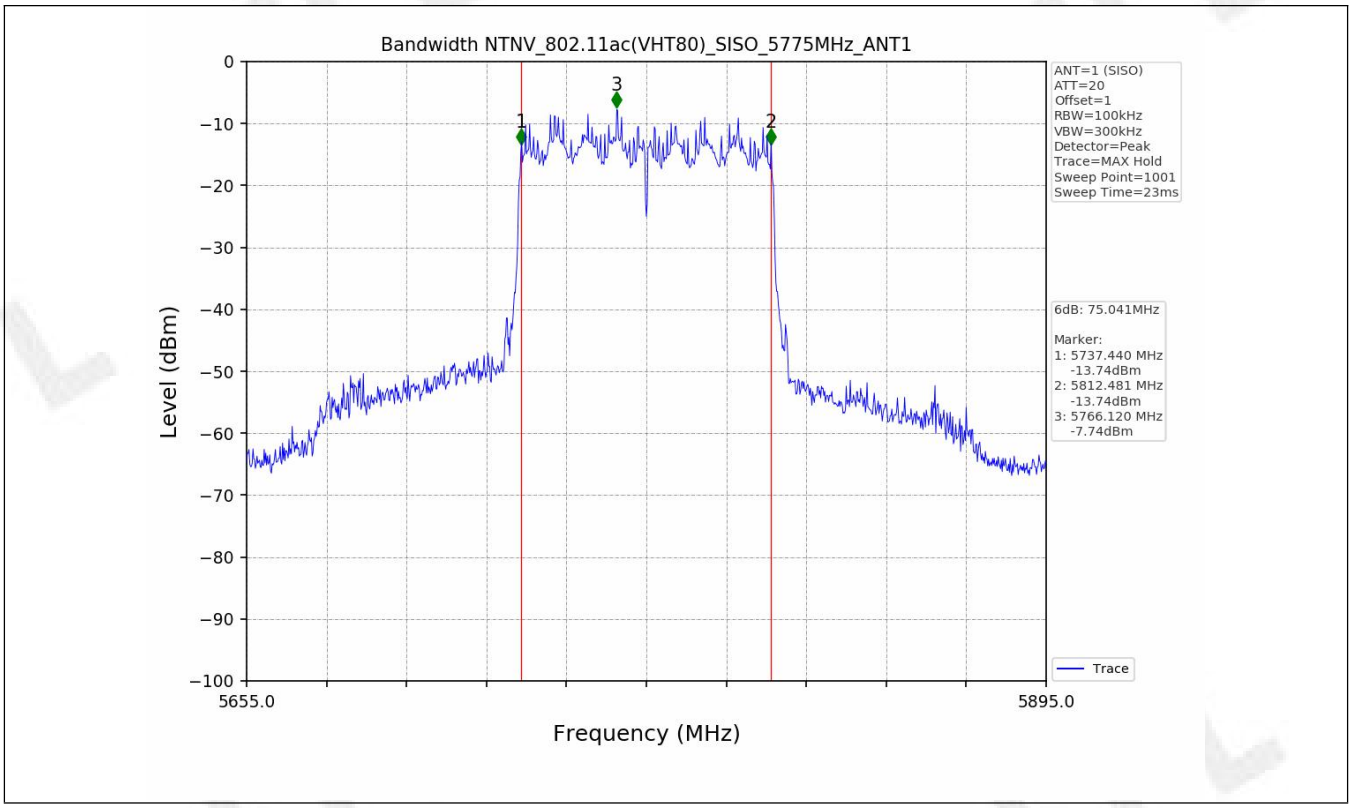

Bandwidth NTNV_802.11ac(VHT20)_SISO_5745MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=5.8ms
6dB: 16.945MHz
Marker:
1: 5736.586 MHz
-9.27dBm
2: 5753.531 MHz
-9.27dBm
3: 5749.980 MHz
-3.27dBm
Trace
Level (dBm)
Frequency (MHz)
5715.0
5775.0


Bandwidth NTNV_802.11ac(VHT20)_SISO_5785MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=5.8ms
6dB: 17.080MHz
Marker:
1: 5776.431 MHz
-9.80dBm
2: 5793.511 MHz
-9.80dBm
3: 5791.240 MHz
-3.80dBm
Trace
Level (dBm)
Frequency (MHz)
5755.0
5815.0

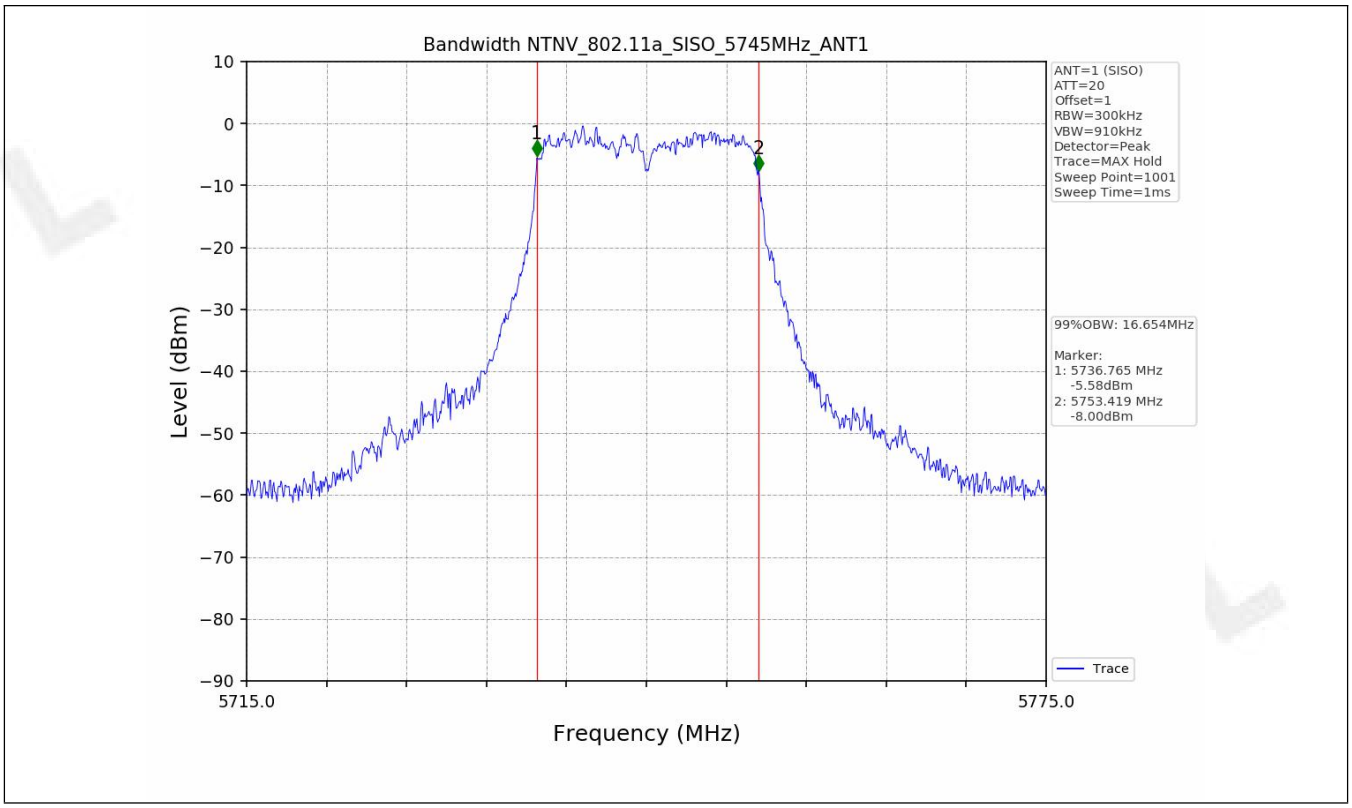

Bandwidth NTNV_802.11ac(VHT20)_SISO_5825MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=5.8ms
6dB: 16.365MHz
Marker:
1: 5816.794 MHz
-10.26dBm
2: 5833.158 MHz
-10.26dBm
3: 5818.700 MHz
-4.26dBm
Trace
Level (dBm)
Frequency (MHz)
5795.0
5855.0

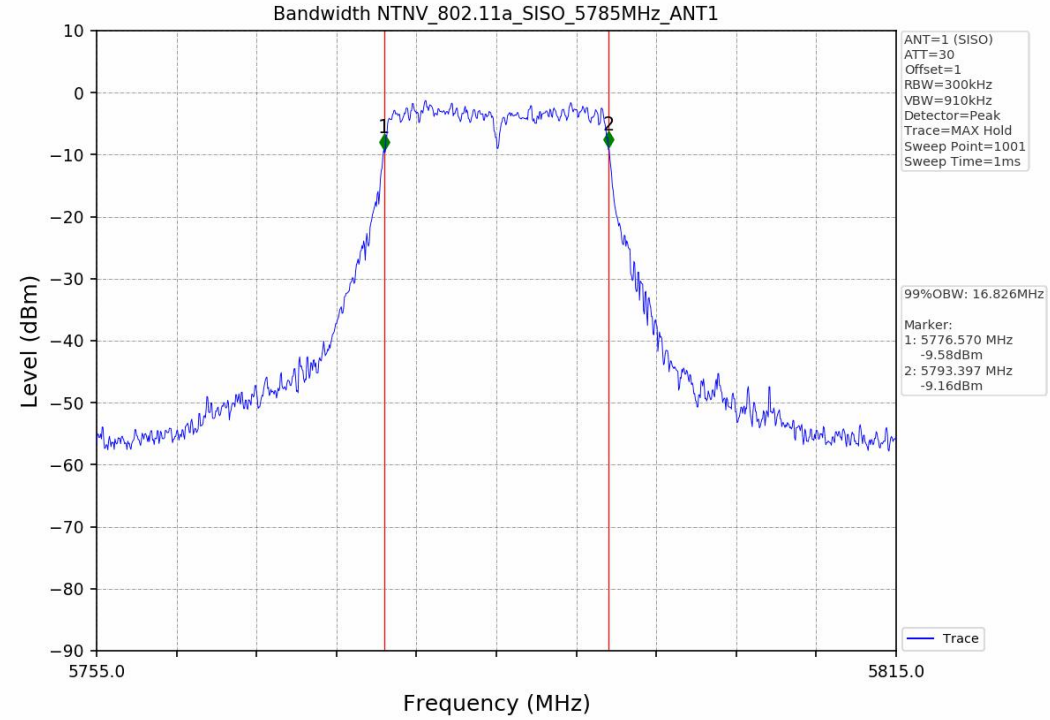

Bandwidth NTNV_802.11ac(VHT40)_SISO_5755MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=11.533ms
6dB: 35.263MHz
Marker:
1: 5737.357 MHz
-11.65dBm
2: 5772.620 MHz
-11.65dBm
3: 5757.520 MHz
-5.65dBm
Trace
Level (dBm)
Frequency (MHz)
5695.0
5815.0

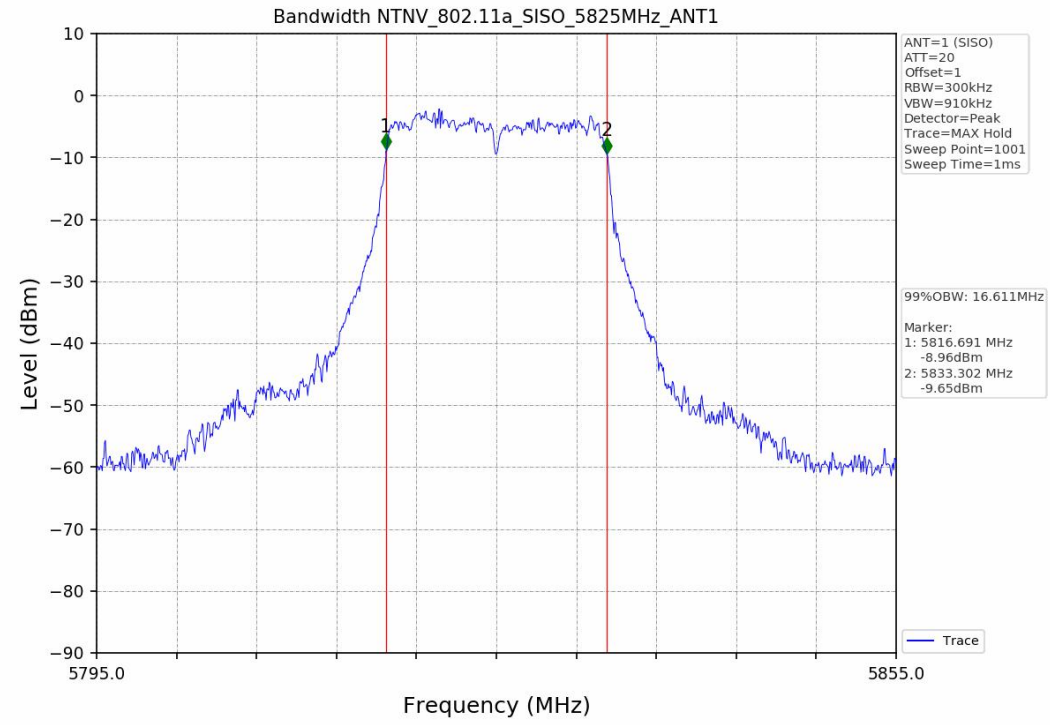

Bandwidth NTNV_802.11ac(VHT40)_SISO_5795MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=11.533ms
6dB: 35.238MHz
Marker:
1: 5777.386 MHz
-12.83dBm
2: 5812.624 MHz
-12.83dBm
3: 5797.520 MHz
-6.83dBm
Trace
Level (dBm)
Frequency (MHz)
5735.0
5855.0

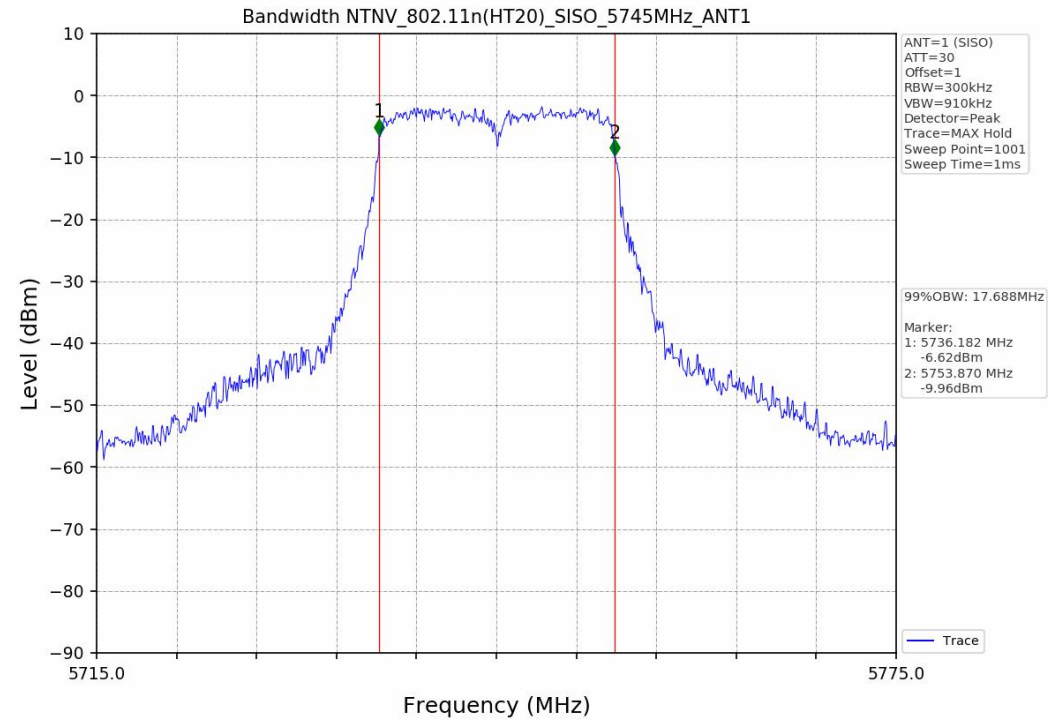


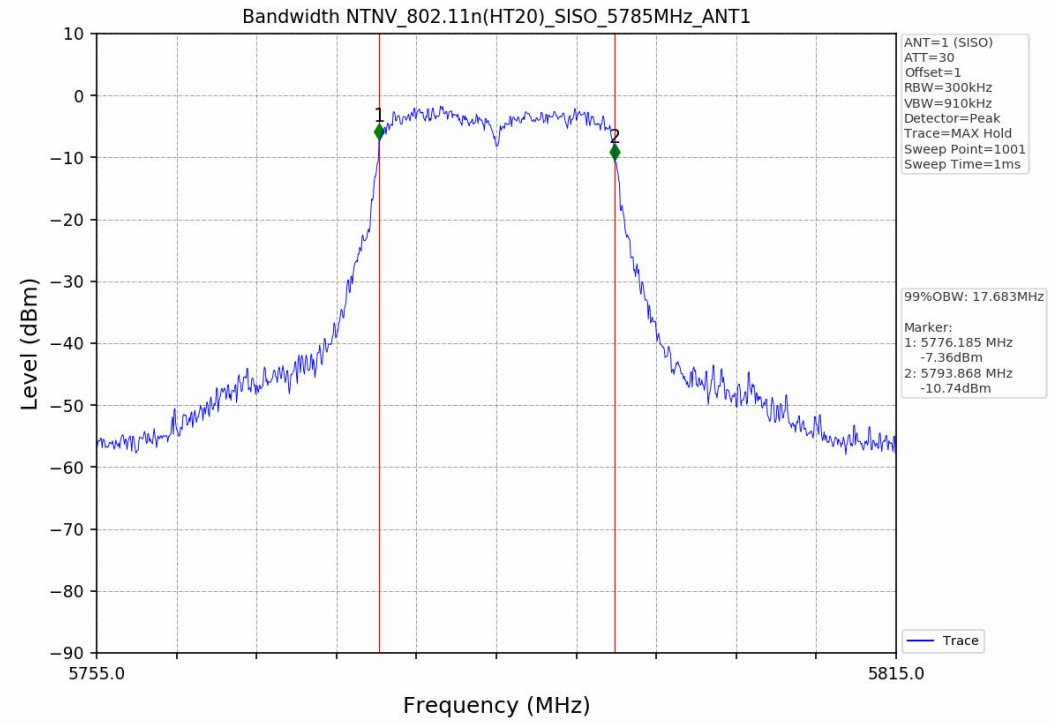
1.3 Test Graph - 99% Occupied Bandwidth

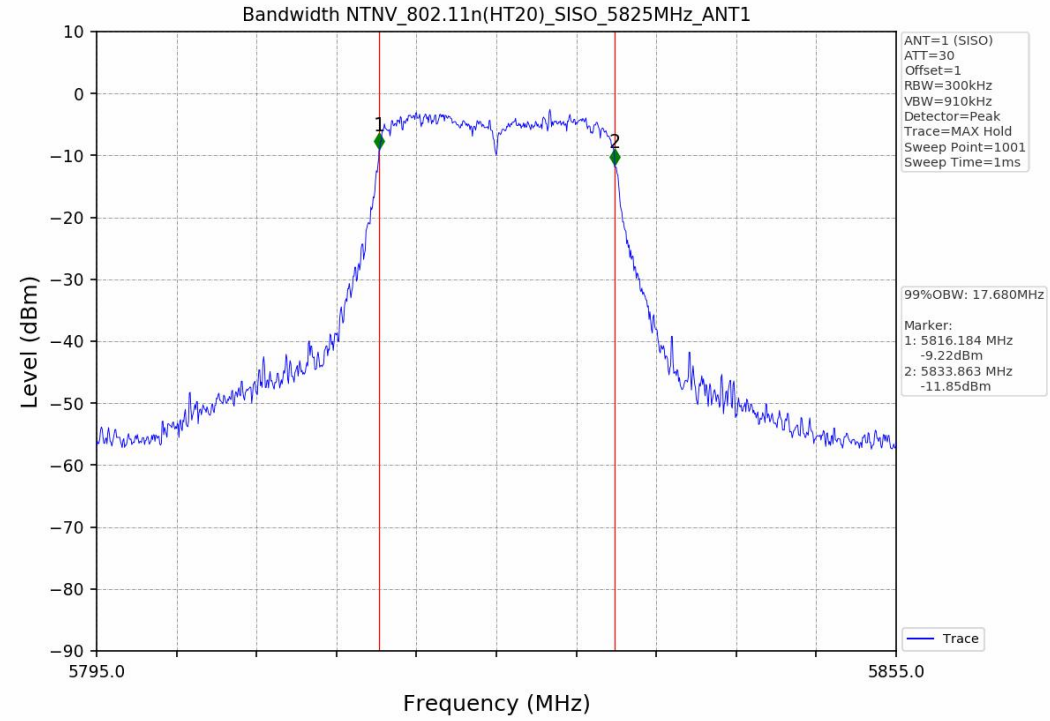


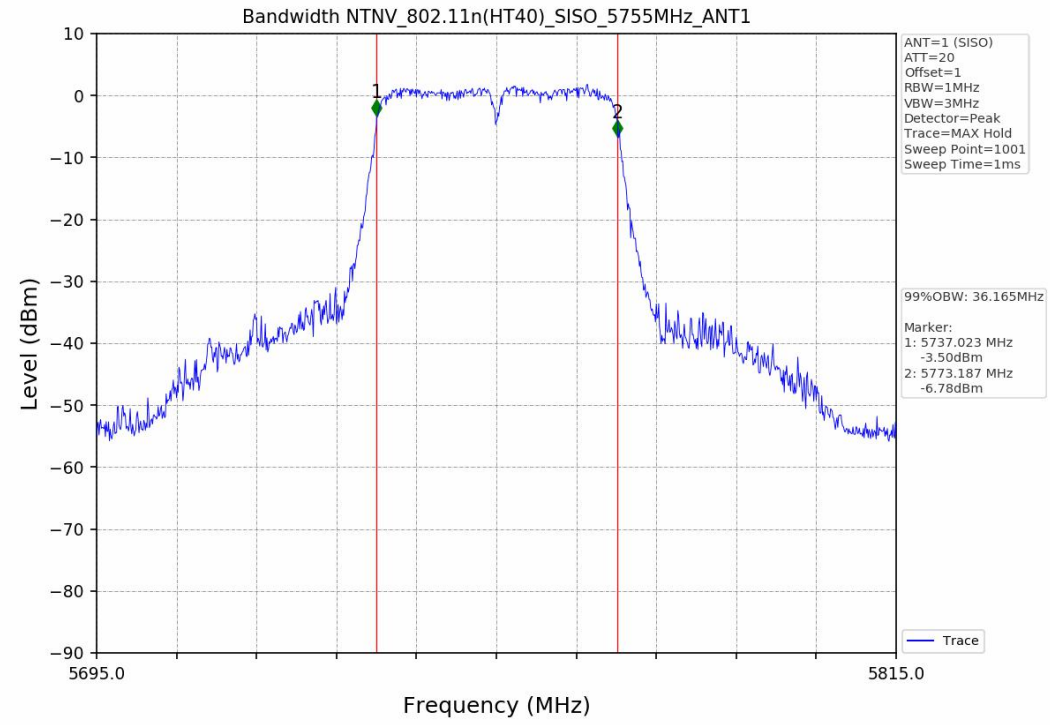

Bandwidth NTNV_802.11a_SISO_5785MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 16.826MHz
Marker:
1: 5776.570 MHz
-9.58dBm
2: 5793.397 MHz
-9.16dBm
Trace
Level (dBm)
Frequency (MHz)
5755.0
5815.0
10
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
1
2

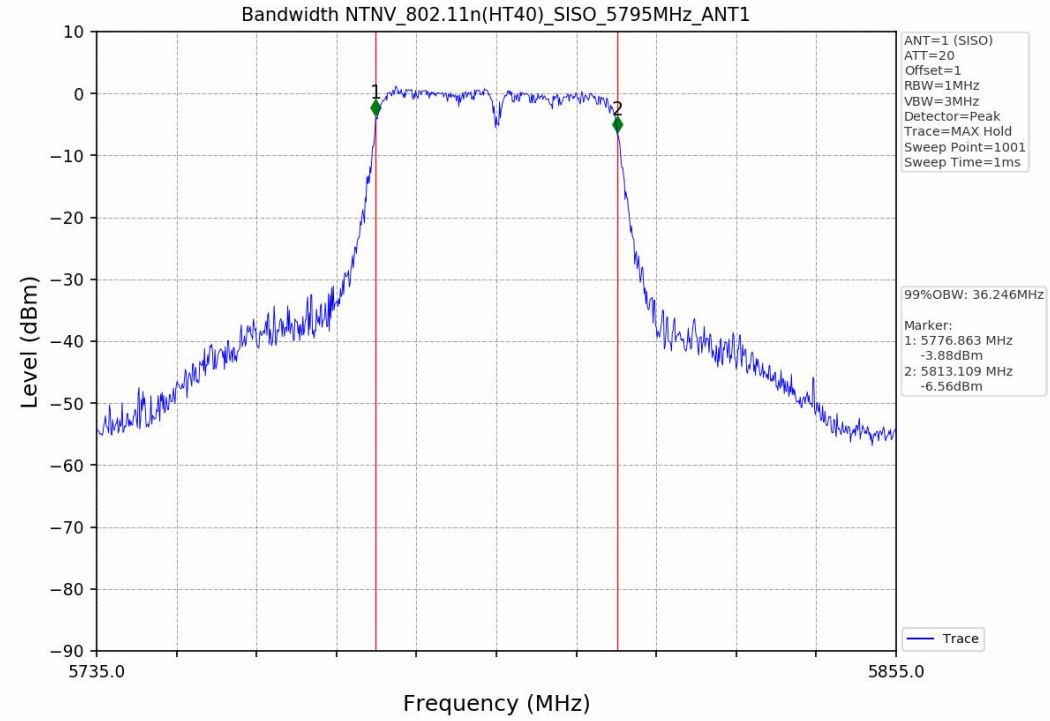

Bandwidth NTNV_802.11a_SISO_5825MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 16.611MHz
Marker:
1: 5816.691 MHz
-8.96dBm
2: 5833.302 MHz
-9.65dBm
Trace
Level (dBm)
Frequency (MHz)
5795.0
5855.0

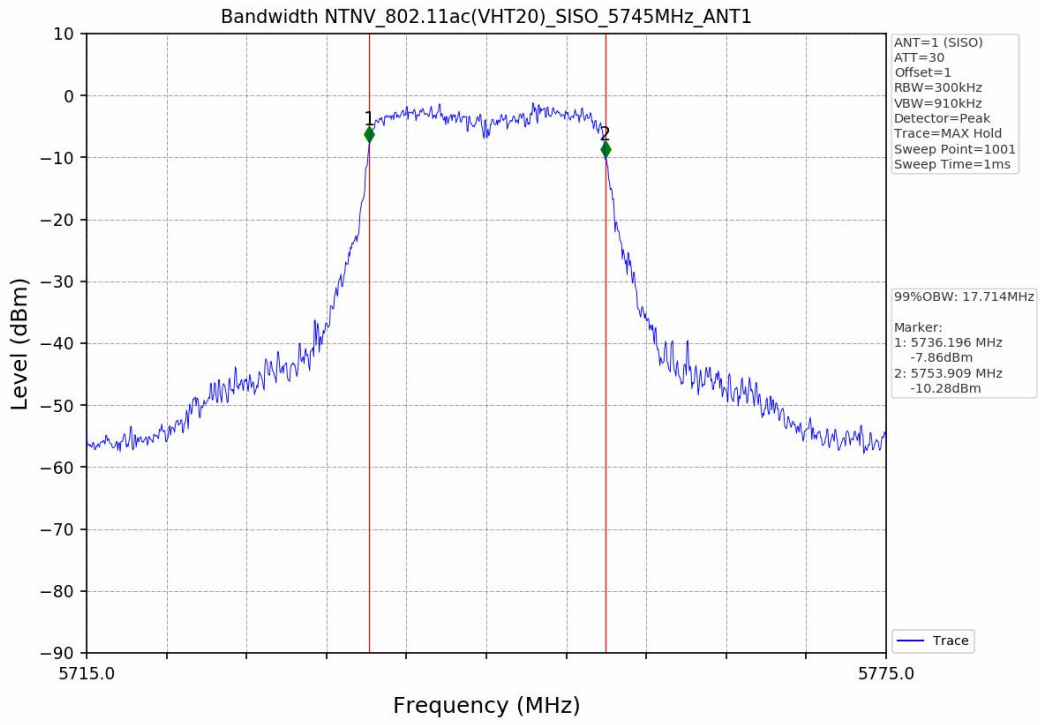

Bandwidth NTNV_802.11n(HT20)_SISO_5745MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 17.688MHz
Marker:
1: 5736.182 MHz
-6.62dBm
2: 5753.870 MHz
-9.96dBm
Trace
Level (dBm)
Frequency (MHz)
5715.0
5775.0

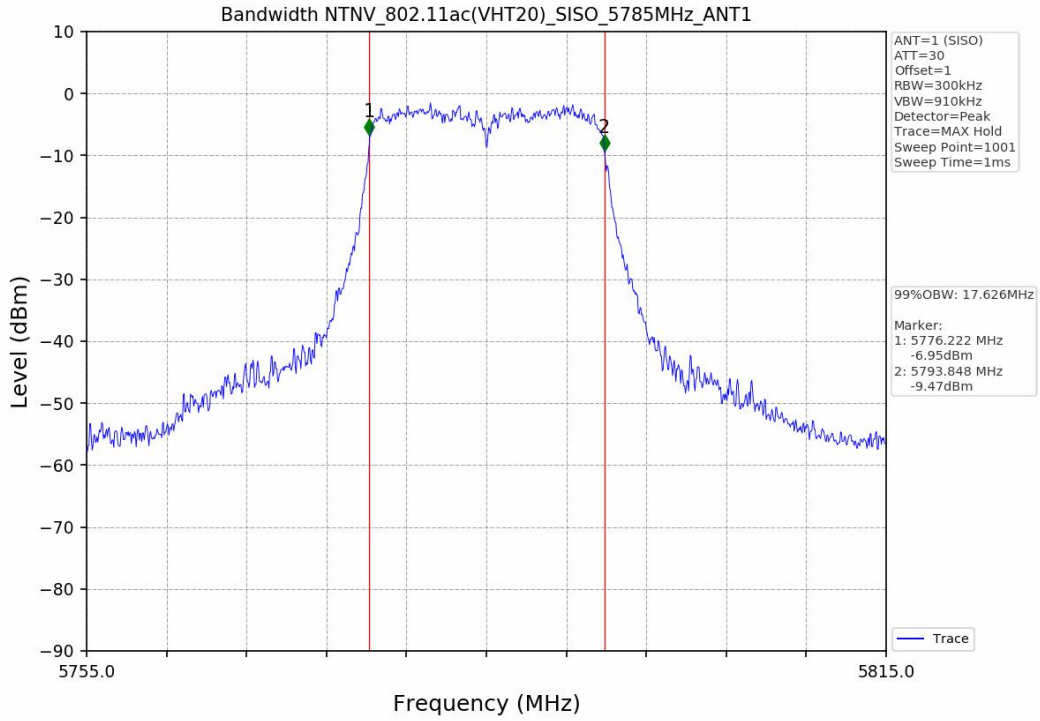

Bandwidth NTNV_802.11n(HT20)_SISO_5785MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 17.683MHz
Marker:
1: 5776.185 MHz
-7.36dBm
2: 5793.868 MHz
-10.74dBm
Trace
Level (dBm)
Frequency (MHz)
5755.0
5815.0

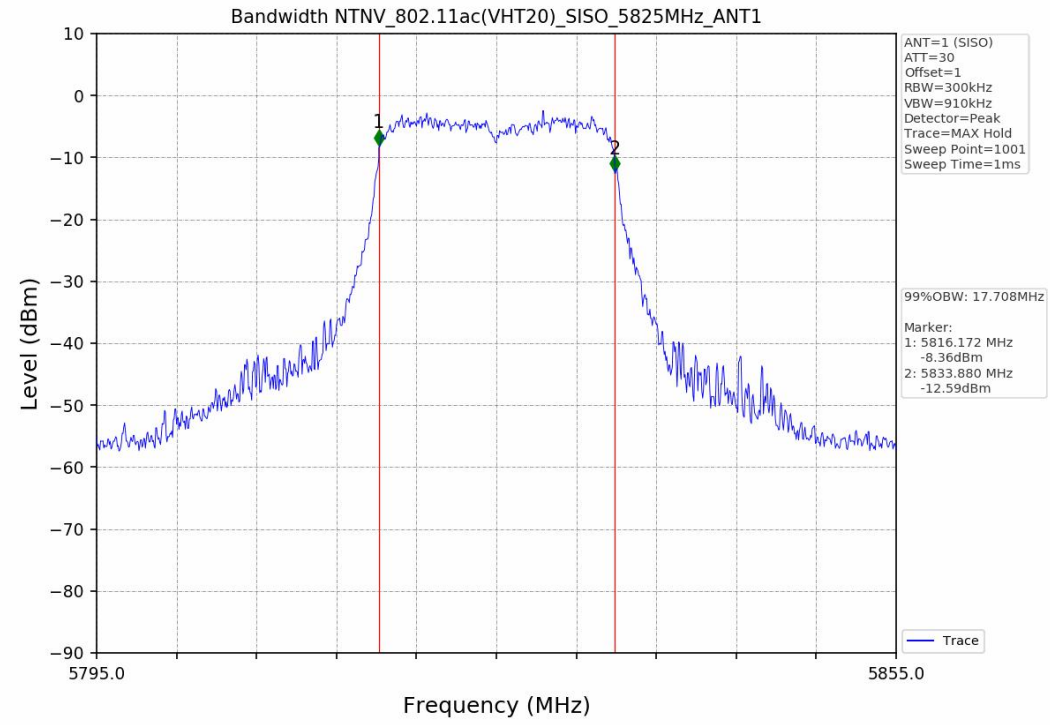

Bandwidth NTNV_802.11n(HT20)_SISO_5825MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 17.680MHz
Marker:
1: 5816.184 MHz
-9.22dBm
2: 5833.863 MHz
-11.85dBm
Trace
Level (dBm)
Frequency (MHz)
5795.0
5855.0

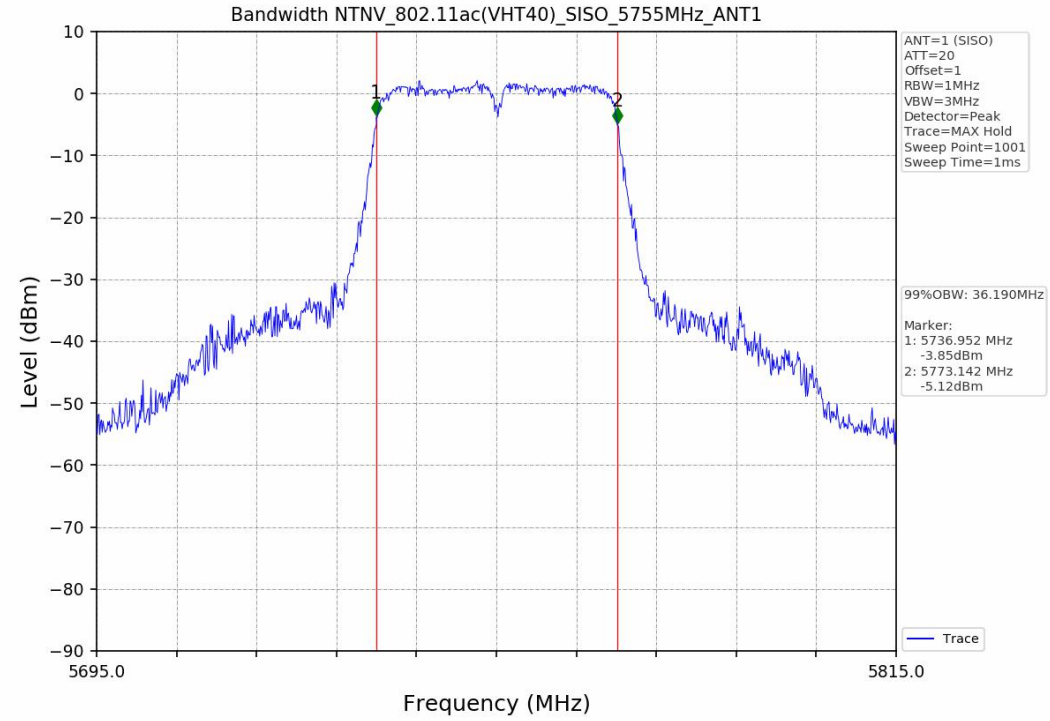

Bandwidth NTNV_802.11n(HT40)_SISO_5755MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 36.165MHz
Marker:
1: 5737.023 MHz
-3.50dBm
2: 5773.187 MHz
-6.78dBm
Trace
Level (dBm)
Frequency (MHz)
5695.0
5815.0

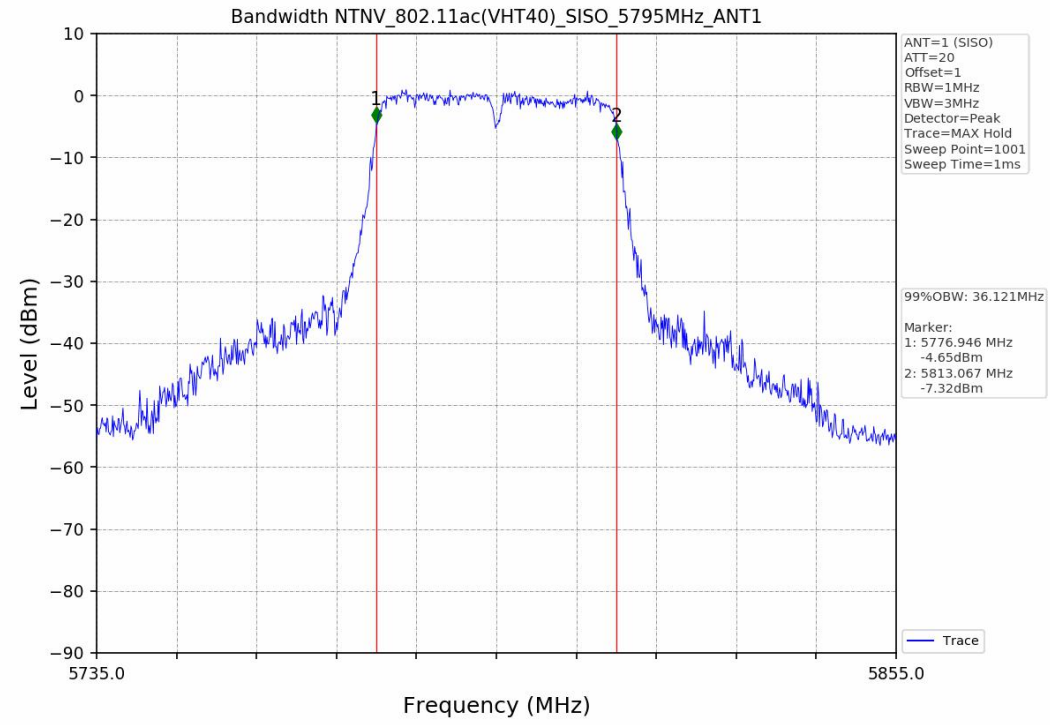

Bandwidth NTNV_802.11n(HT40)_SISO_5795MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 36.246MHz
Marker:
1: 5776.863 MHz
-3.88dBm
2: 5813.109 MHz
-6.56dBm
Trace
Level (dBm)
Frequency (MHz)
5735.0
5855.0

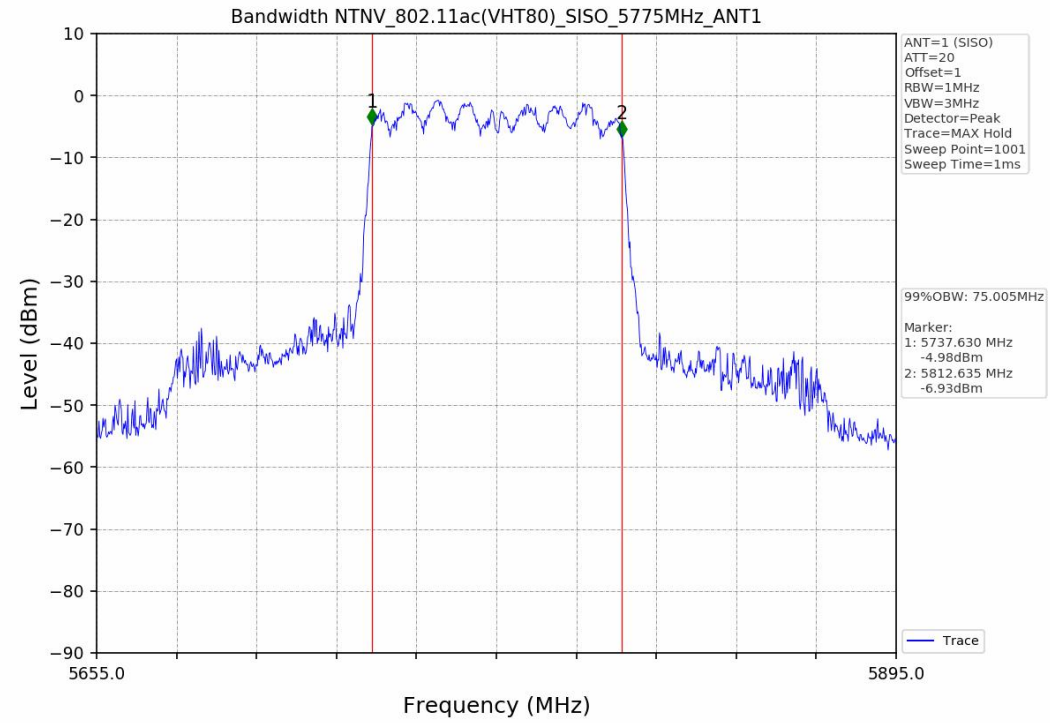

Bandwidth NTNV_802.11ac(VHT20)_SISO_5745MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 17.714MHz
Marker:
1: 5736.196 MHz
-7.86dBm
2: 5753.909 MHz
-10.28dBm
Trace
Level (dBm)
Frequency (MHz)
5715.0
5775.0


Bandwidth NTNV_802.11ac(VHT20)_SISO_5785MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 17.626MHz
Marker:
1: 5776.222 MHz
-6.95dBm
2: 5793.848 MHz
-9.47dBm
Trace
Level (dBm)
Frequency (MHz)
5755.0
5815.0


Bandwidth NTNV_802.11ac(VHT20)_SISO_5825MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 17.708MHz
Marker:
1: 5816.172 MHz
-8.36dBm
2: 5833.880 MHz
-12.59dBm
Trace
Level (dBm)
Frequency (MHz)
5795.0
5855.0


Bandwidth NTNV_802.11ac(VHT40)_SISO_5755MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 36.190MHz
Marker:
1: 5736.952 MHz
-3.85dBm
2: 5773.142 MHz
-5.12dBm
Trace
Level (dBm)
Frequency (MHz)
5695.0
5815.0


Bandwidth NTNV_802.11ac(VHT40)_SISO_5795MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 36.121MHz
Marker:
1: 5776.946 MHz
-4.65dBm
2: 5813.067 MHz
-7.32dBm
Trace
Level (dBm)
Frequency (MHz)
5735.0
5855.0

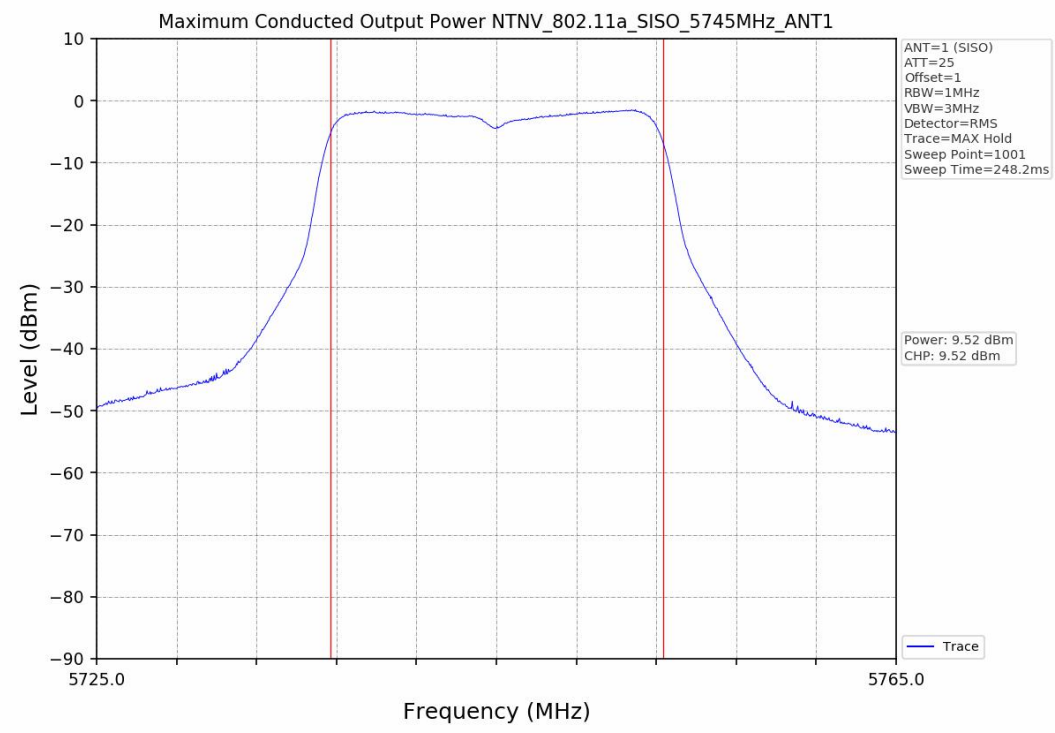

Bandwidth NTNV_802.11ac(VHT80)_SISO_5775MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 75.005MHz
Marker:
1: 5737.630 MHz
-4.98dBm
2: 5812.635 MHz
-6.93dBm
Trace
Level (dBm)
Frequency (MHz)
5655.0
5895.0

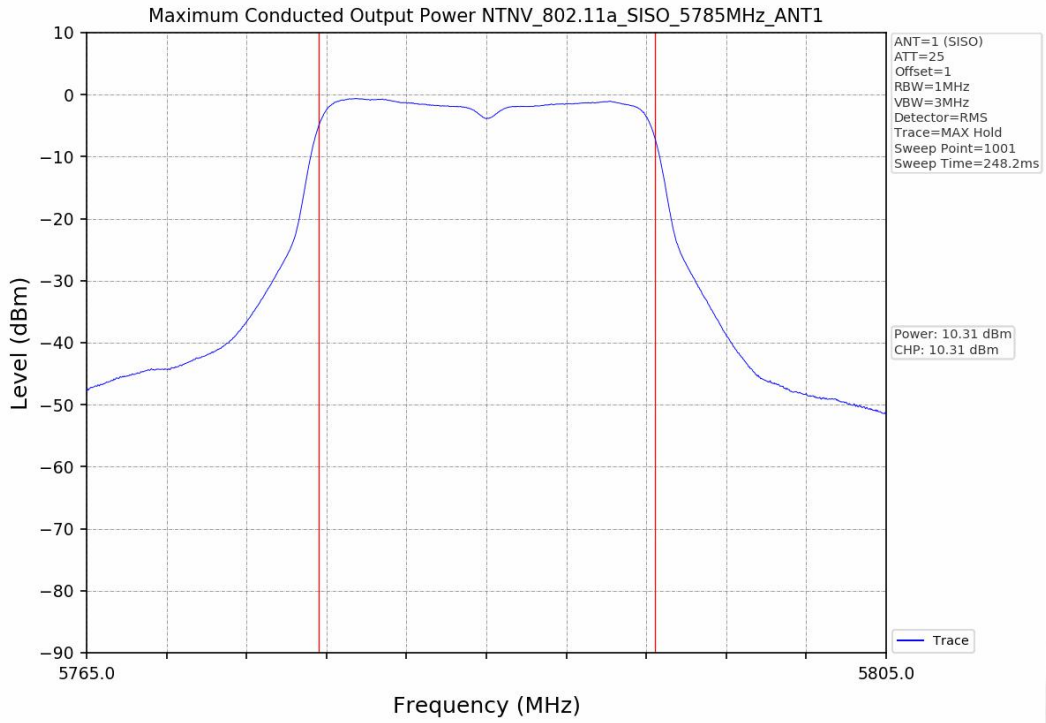
2. Maximum Conducted Output Power

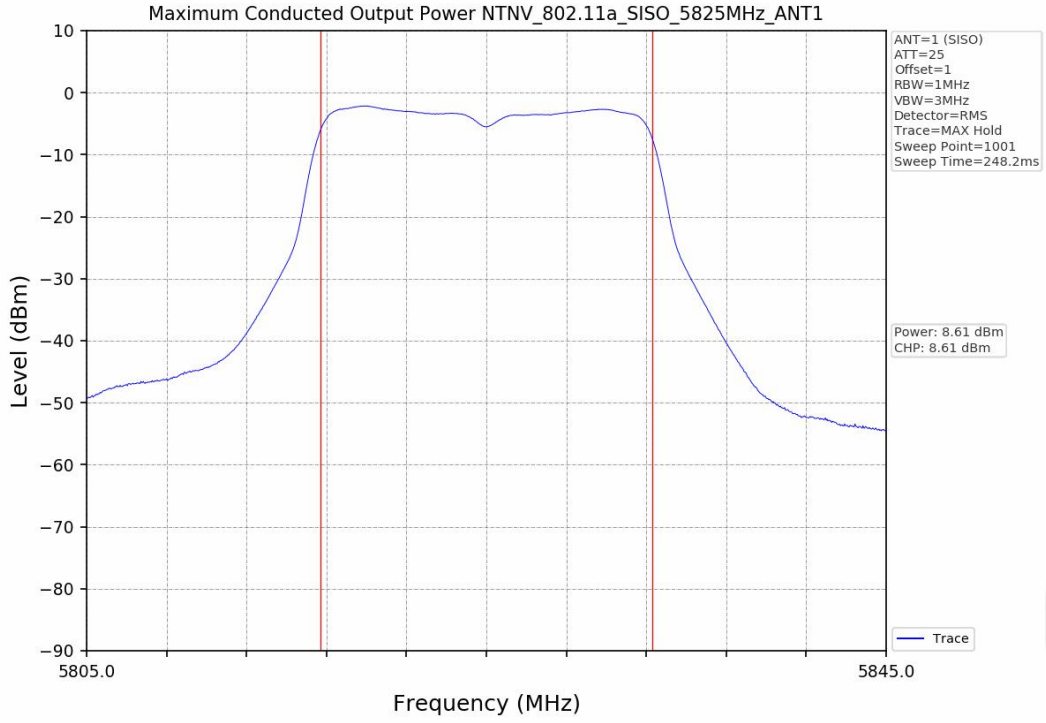
2.1 Test Result

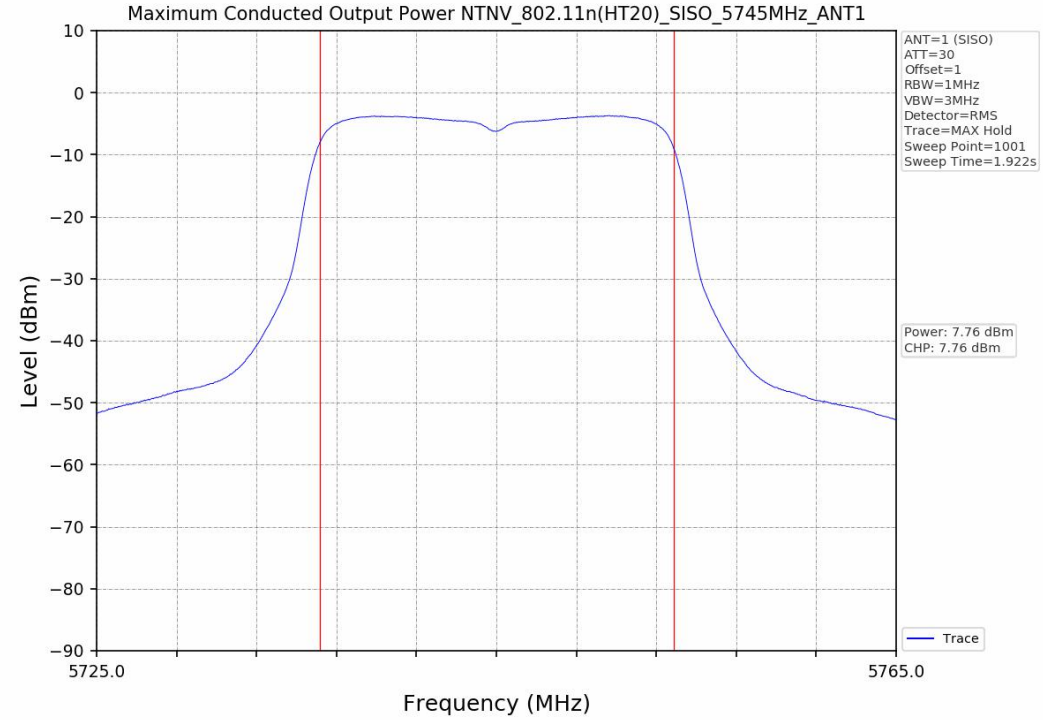
Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)	Limit (dBm)	Verdict
			Ant 1		
802.11a	5745	SISO	9.52	≤30.00	PASS
	5785	SISO	10.31	≤30.00	PASS
	5825	SISO	8.61	≤30.00	PASS
802.11n(HT20)	5745	SISO	7.76	≤30.00	PASS
	5785	SISO	8.20	≤30.00	PASS
	5825	SISO	6.56	≤30.00	PASS
802.11n(HT40)	5755	SISO	8.14	≤30.00	PASS
	5795	SISO	7.87	≤30.00	PASS
802.11ac(VHT20)	5745	SISO	7.71	≤30.00	PASS
	5785	SISO	7.18	≤30.00	PASS
	5825	SISO	5.73	≤30.00	PASS
802.11ac(VHT40)	5755	SISO	8.39	≤30.00	PASS
	5795	SISO	7.80	≤30.00	PASS
802.11ac(VHT80)	5775	SISO	7.66	≤30.00	PASS

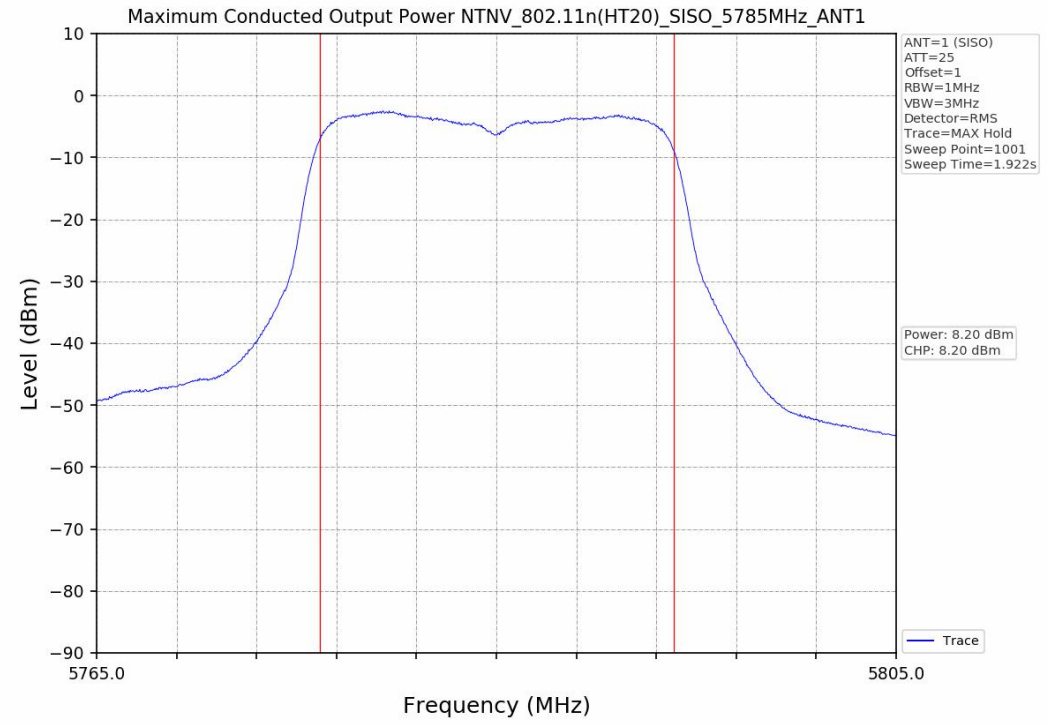
2.2 Test Graph

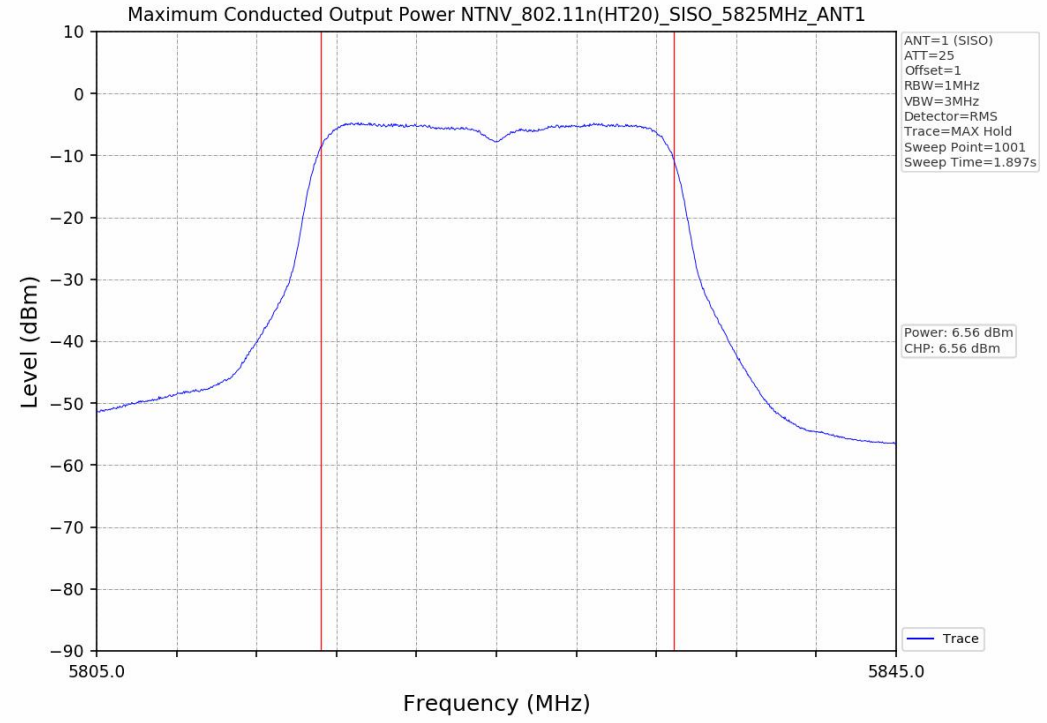


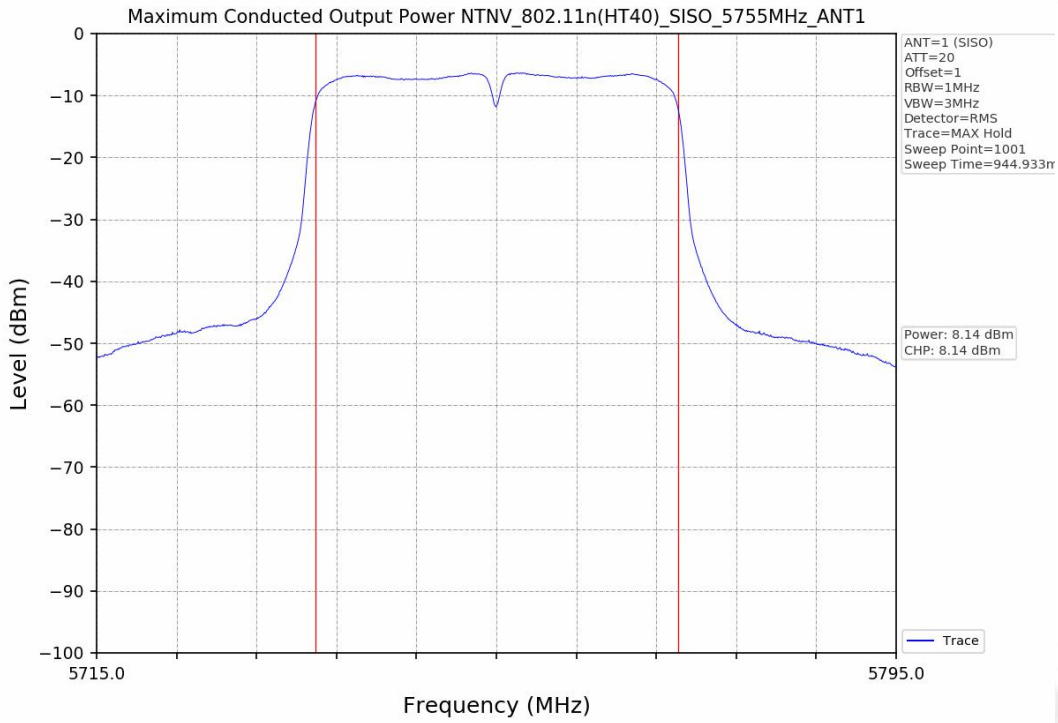

Maximum Conducted Output Power NTNV_802.11a_SISO_5785MHz_ANT1
ANT=1 (SISO)
ATT=25
Offset=1
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=248.2ms
Power: 10.31 dBm
CHP: 10.31 dBm
Trace
Level (dBm)
Frequency (MHz)
5765.0
5805.0

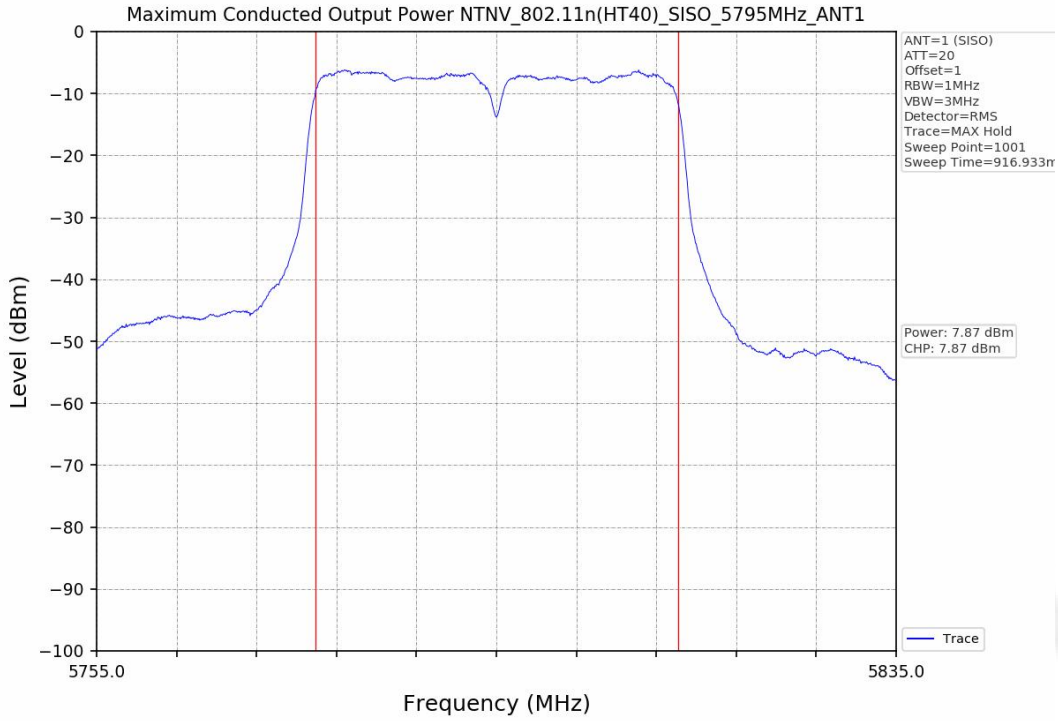

Maximum Conducted Output Power NTNV_802.11a_SISO_5825MHz_ANT1
ANT=1 (SISO)
ATT=25
Offset=1
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=248.2ms
Power: 8.61 dBm
CHP: 8.61 dBm
Trace
Level (dBm)
Frequency (MHz)
5805.0
5845.0

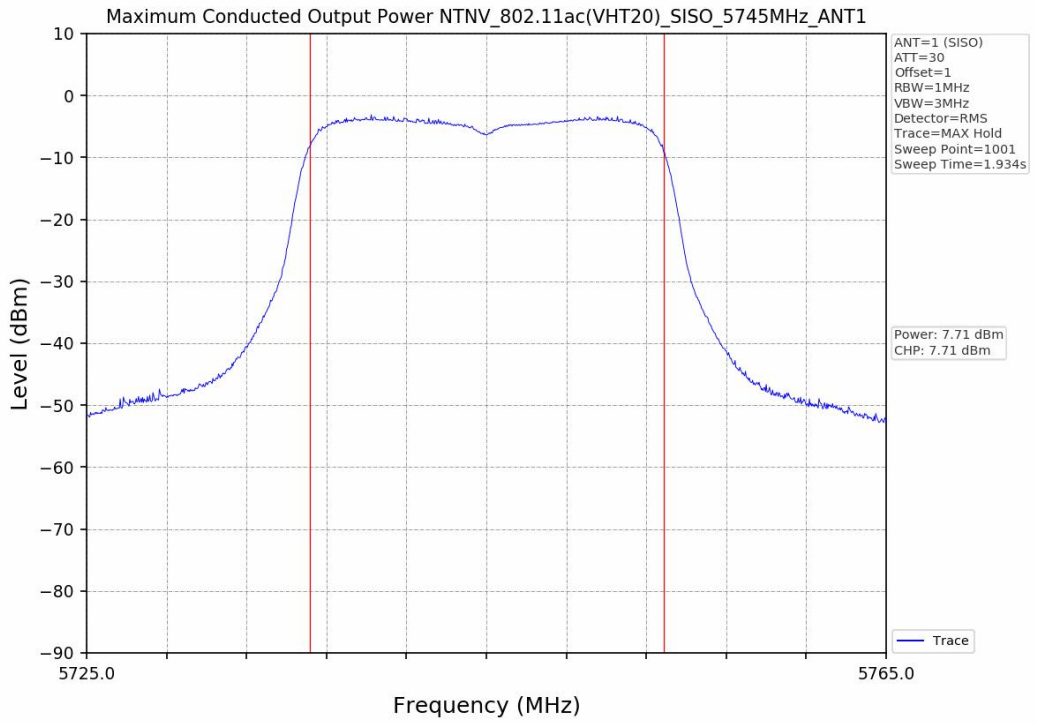

Maximum Conducted Output Power NTNV_802.11n(HT20)_SISO_5745MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.922s
Power: 7.76 dBm
CHP: 7.76 dBm
Trace
Level (dBm)
10
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
5725.0
5765.0
Frequency (MHz)

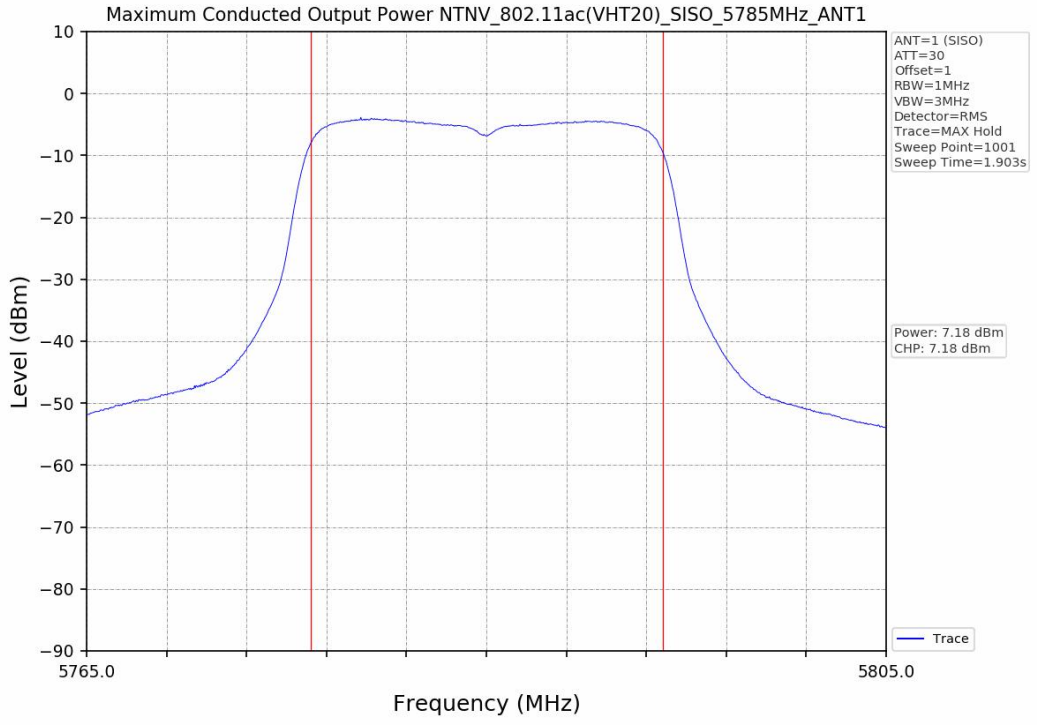

Maximum Conducted Output Power NTNV_802.11n(HT20)_SISO_5785MHz_ANT1
ANT=1 (SISO)
ATT=25
Offset=1
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.922s
Power: 8.20 dBm
CHP: 8.20 dBm
Trace
Level (dBm)
Frequency (MHz)
5765.0
5805.0

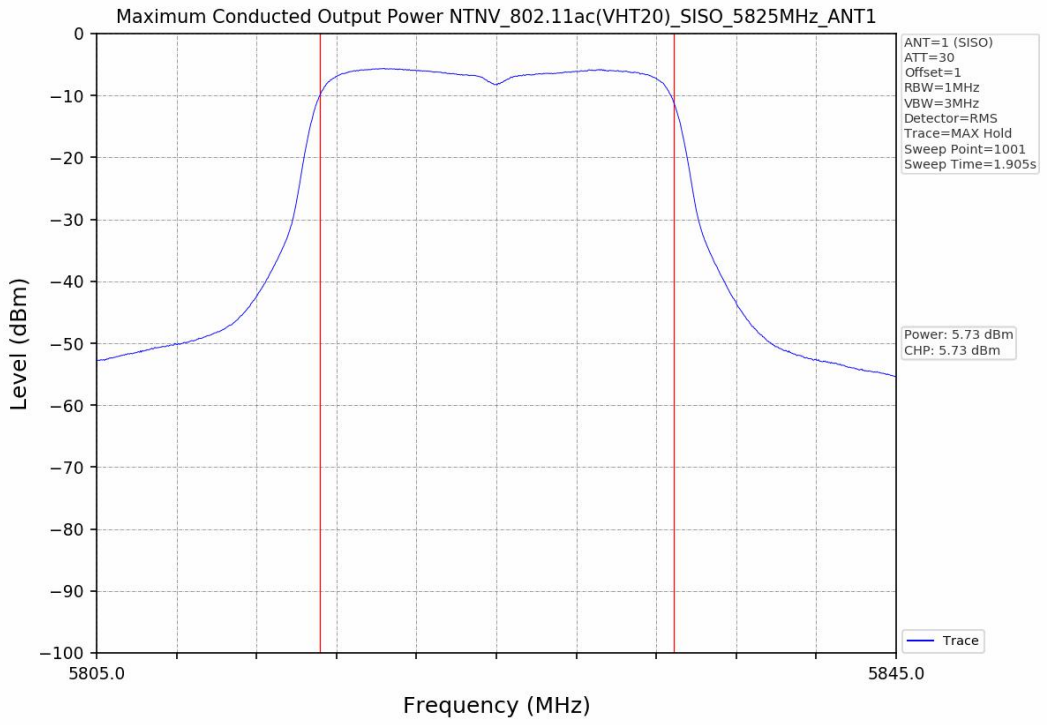

Maximum Conducted Output Power NTNV_802.11n(HT20)_SISO_5825MHz_ANT1
ANT=1 (SISO)
ATT=25
Offset=1
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.897s
Power: 6.56 dBm
CHP: 6.56 dBm
Trace
Level (dBm)
Frequency (MHz)
5805.0
5845.0

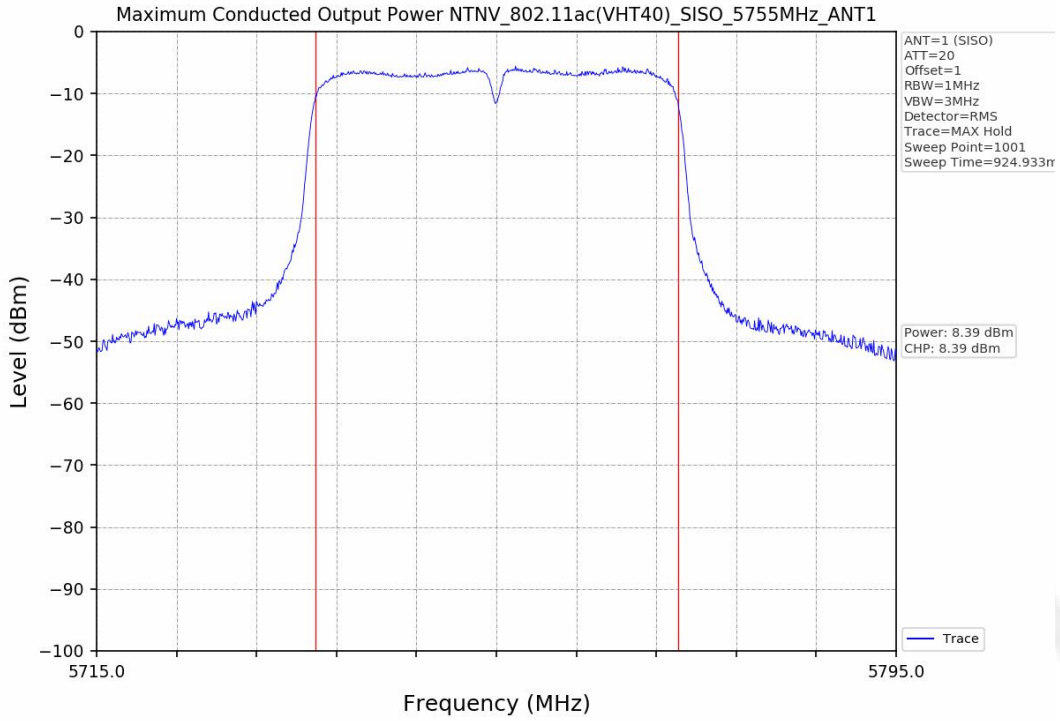

Maximum Conducted Output Power NTNV_802.11n(HT40)_SISO_5755MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=944.933m
Power: 8.14 dBm
CHP: 8.14 dBm
Trace
Level (dBm)
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
−100
5715.0
5795.0
Frequency (MHz)

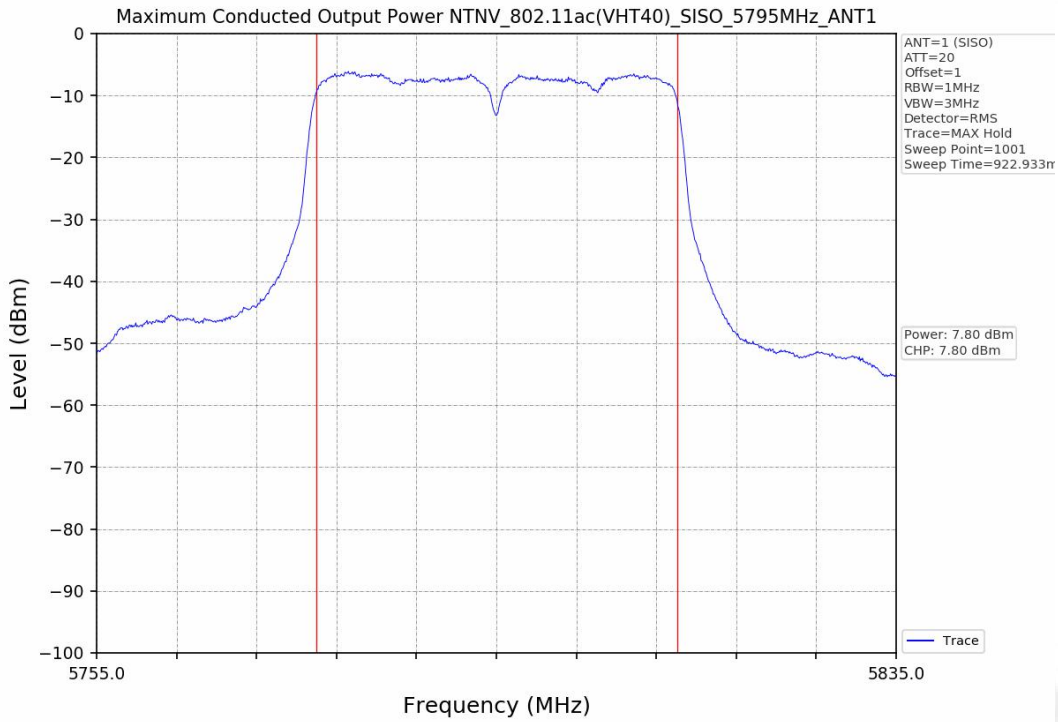

Maximum Conducted Output Power NTNV_802.11n(HT40)_SISO_5795MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=916.933m
Power: 7.87 dBm
CHP: 7.87 dBm
Trace
Level (dBm)
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
−100
5755.0
5835.0
Frequency (MHz)

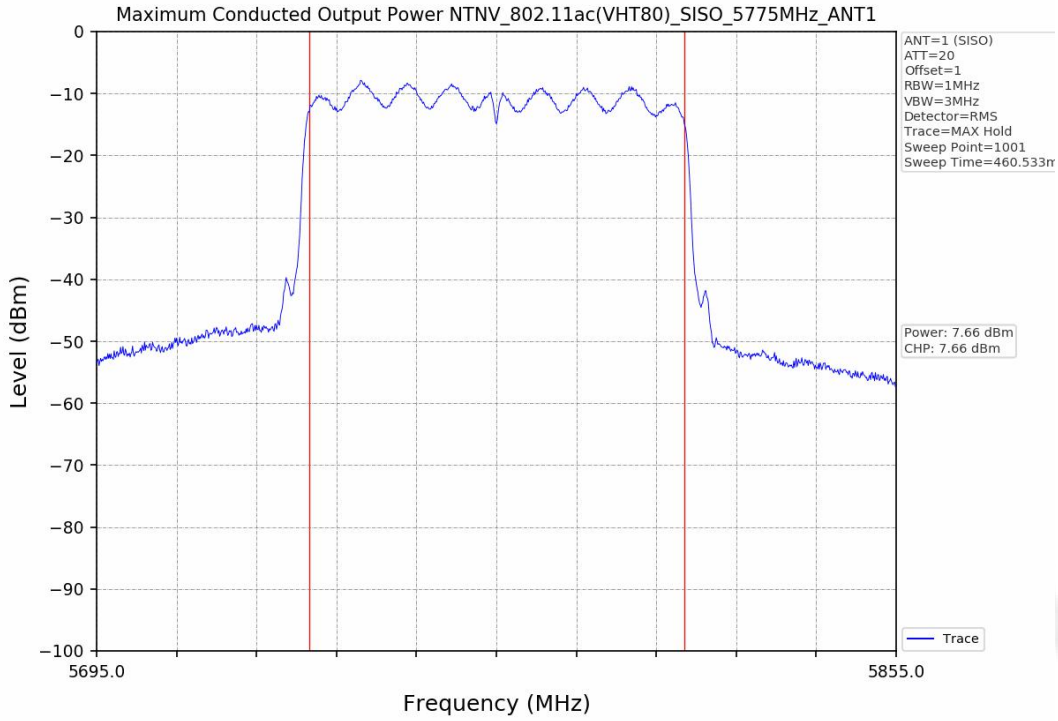

Maximum Conducted Output Power NTNV_802.11ac(VHT20)_SISO_5745MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.934s
Power: 7.71 dBm
CHP: 7.71 dBm
Trace
Level (dBm)
10
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
5725.0
5765.0
Frequency (MHz)


Maximum Conducted Output Power NTNV_802.11ac(VHT20)_SISO_5785MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.903s
Power: 7.18 dBm
CHP: 7.18 dBm
Trace
Level (dBm)
10
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
5765.0
5805.0
Frequency (MHz)


Maximum Conducted Output Power NTNV_802.11ac(VHT20)_SISO_5825MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.905s
Power: 5.73 dBm
CHP: 5.73 dBm
Trace
Level (dBm)
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
−100
5805.0
5845.0
Frequency (MHz)


Maximum Conducted Output Power NTNV_802.11ac(VHT40)_SISO_5755MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=924.933m
Power: 8.39 dBm
CHP: 8.39 dBm
Trace
Level (dBm)
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
−100
5715.0
5795.0
Frequency (MHz)


Maximum Conducted Output Power NTNV_802.11ac(VHT40)_SISO_5795MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=922.933n
Power: 7.80 dBm
CHP: 7.80 dBm
Trace
Level (dBm)
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
−100
5755.0
5835.0
Frequency (MHz)


Maximum Conducted Output Power NTNV_802.11ac(VHT80)_SISO_5775MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=460.533n
Power: 7.66 dBm
CHP: 7.66 dBm
Trace
Level (dBm)
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
−100
5695.0
5855.0
Frequency (MHz)

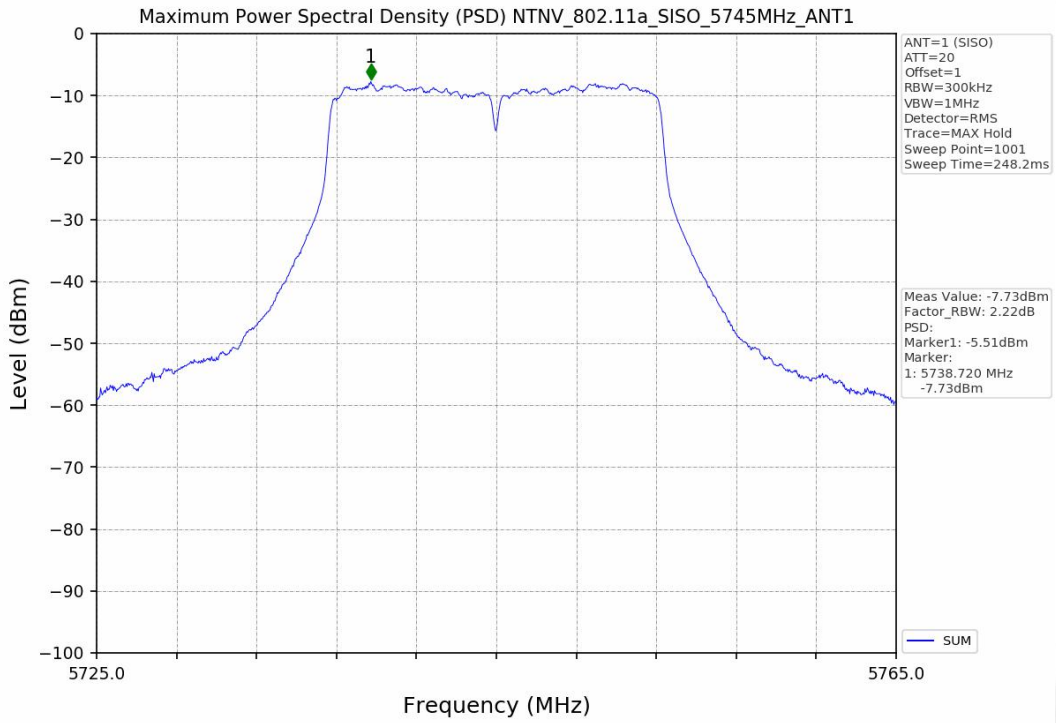
3. Maximum Power Spectral Density (PSD)

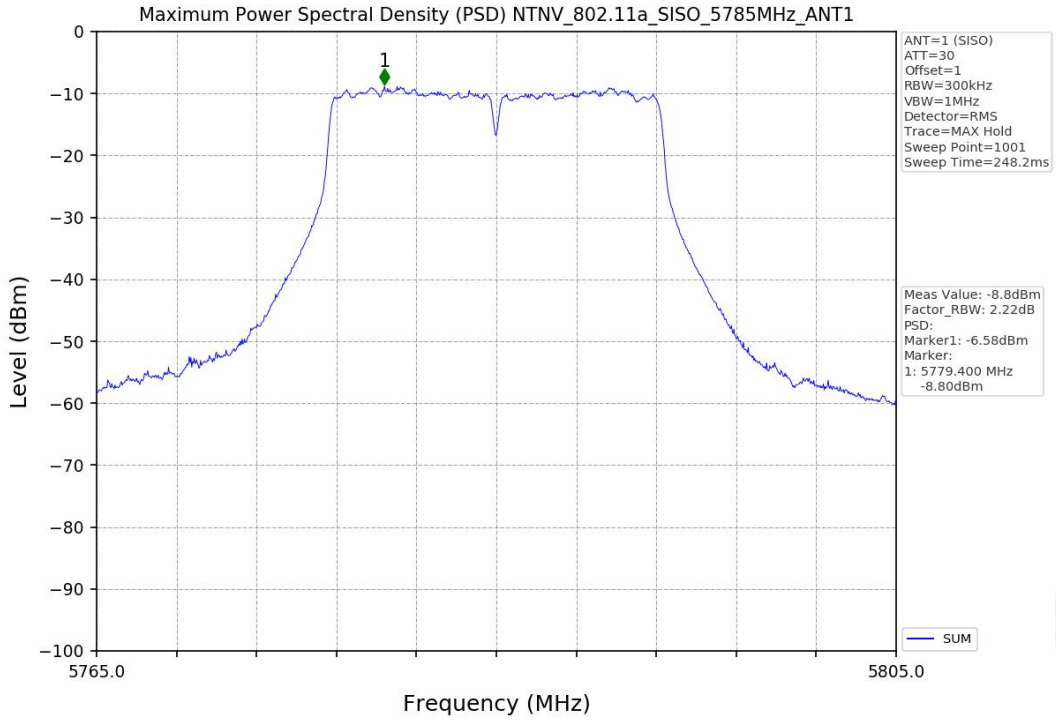
3.1 Test Result

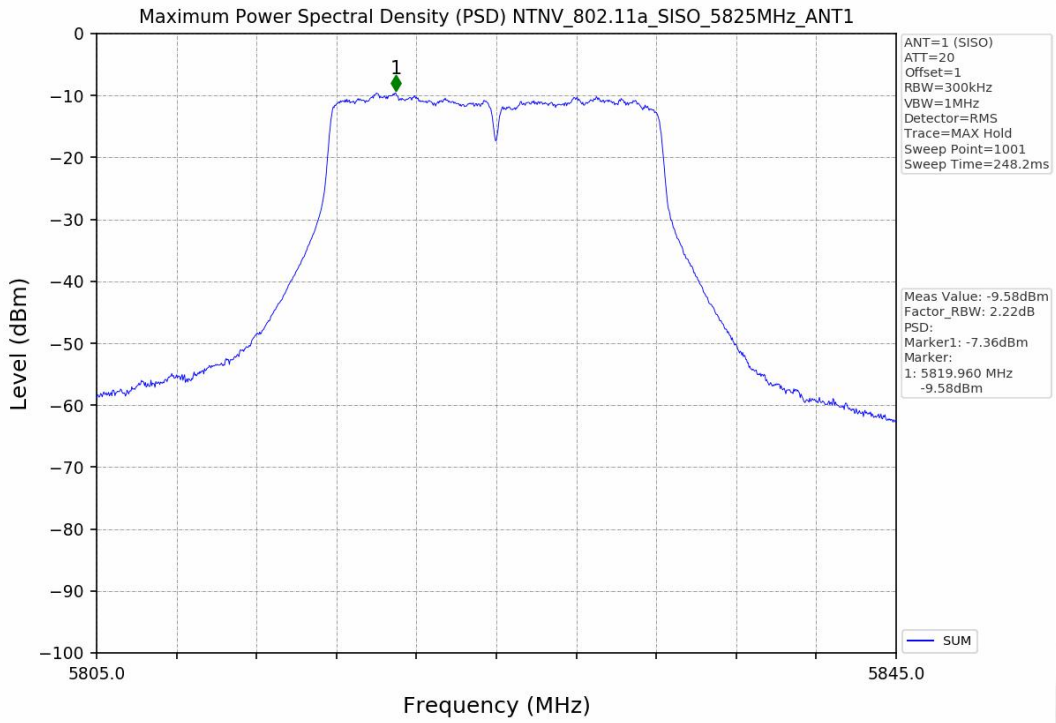
Test Mode	Frequency (MHz)	Maximum Power Spectral Density (dBm/MHz)	Verdict

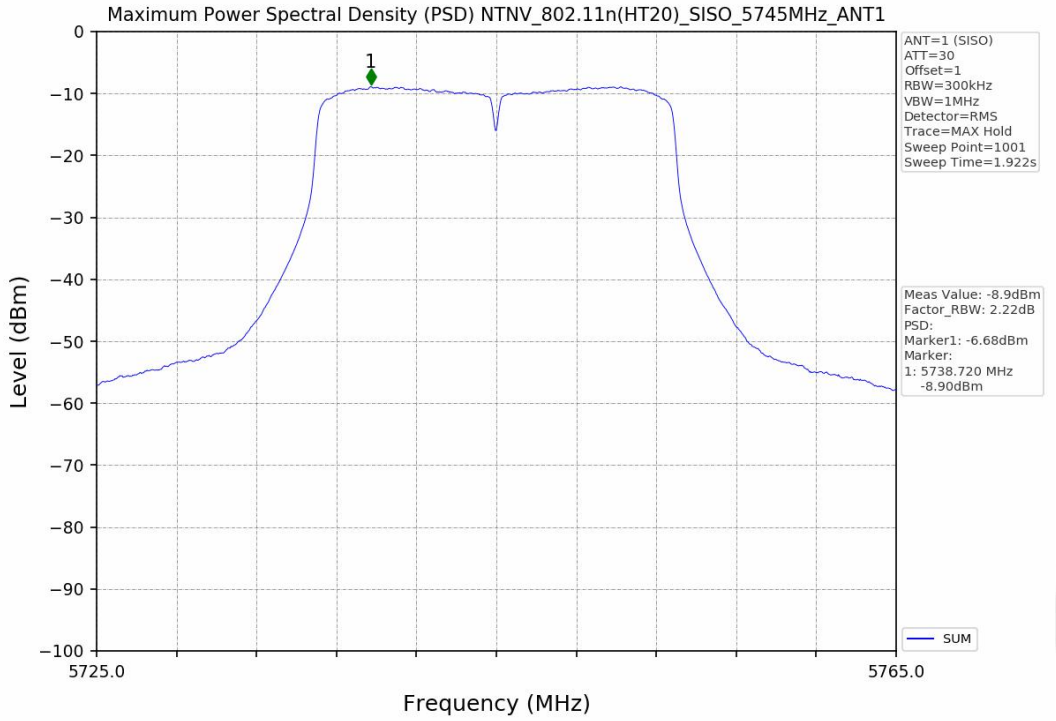
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
			Ant 1		
802.11a	5745	SISO	-5.51	≤30	PASS
	5785	SISO	-6.58	≤30	PASS
	5825	SISO	-7.36	≤30	PASS
802.11n(HT20)	5745	SISO	-6.68	≤30	PASS
	5785	SISO	-7.16	≤30	PASS
	5825	SISO	-8.51	≤30	PASS
802.11n(HT40)	5755	SISO	-8.98	≤30	PASS
	5795	SISO	-9.36	≤30	PASS
802.11ac(VHT20)	5745	SISO	-6.04	≤30	PASS
	5785	SISO	-7.03	≤30	PASS
	5825	SISO	-8.42	≤30	PASS
802.11ac(VHT40)	5755	SISO	-8.72	≤30	PASS
	5795	SISO	-9.78	≤30	PASS
802.11ac(VHT80)	5775	SISO	-11.42	≤30	PASS

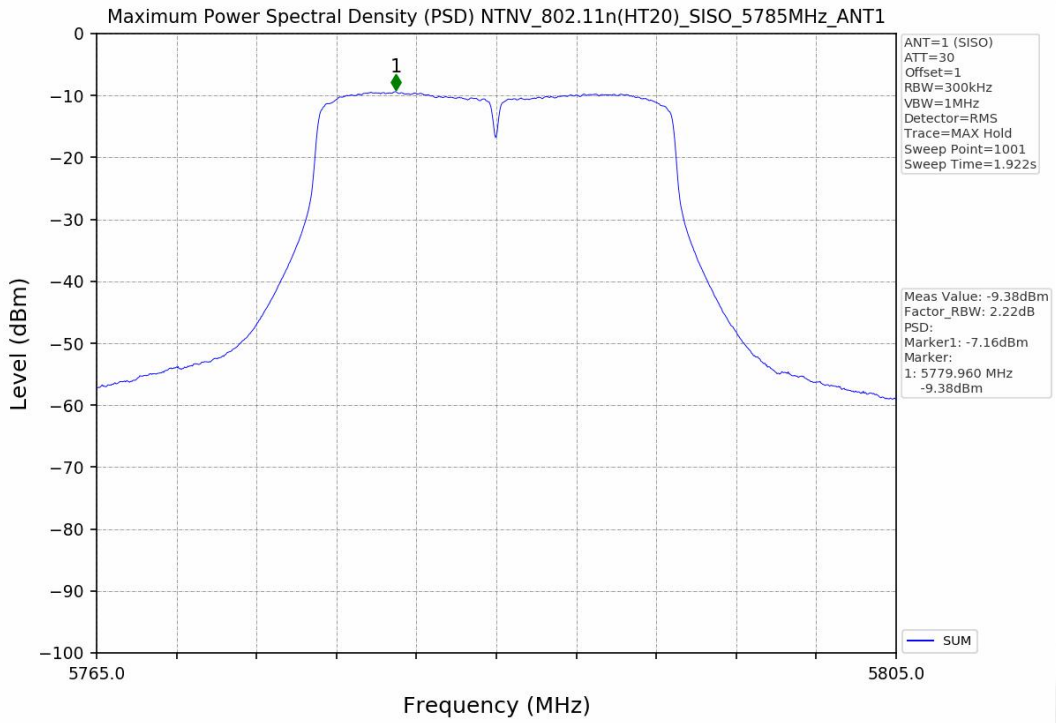
3.2 Test Graph

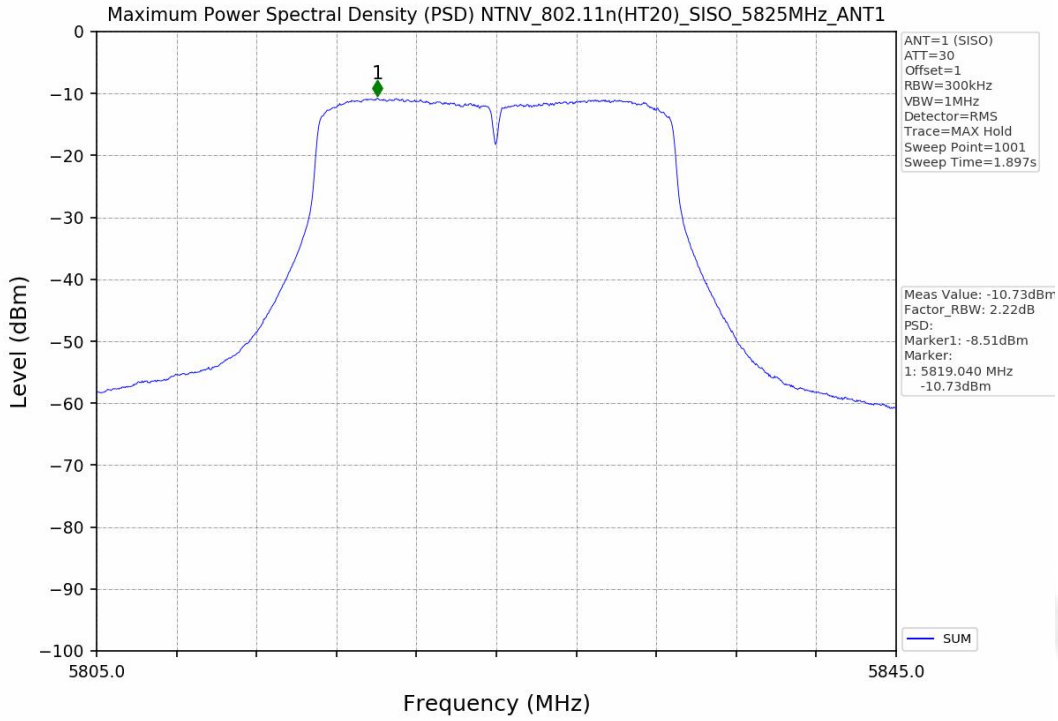

Maximum Power Spectral Density (PSD) NTNV_802.11a_SISO_5745MHz_ANT1
Level (dBm)
Frequency (MHz)
5725.0
5765.0
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
−100
1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=300kHz
VBW=1MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=248.2ms
Meas Value: -7.73dBm
Factor_RBW: 2.22dB
PSD:
Marker1: -5.51dBm
Marker:
1: 5738.720 MHz
-7.73dBm
SUM

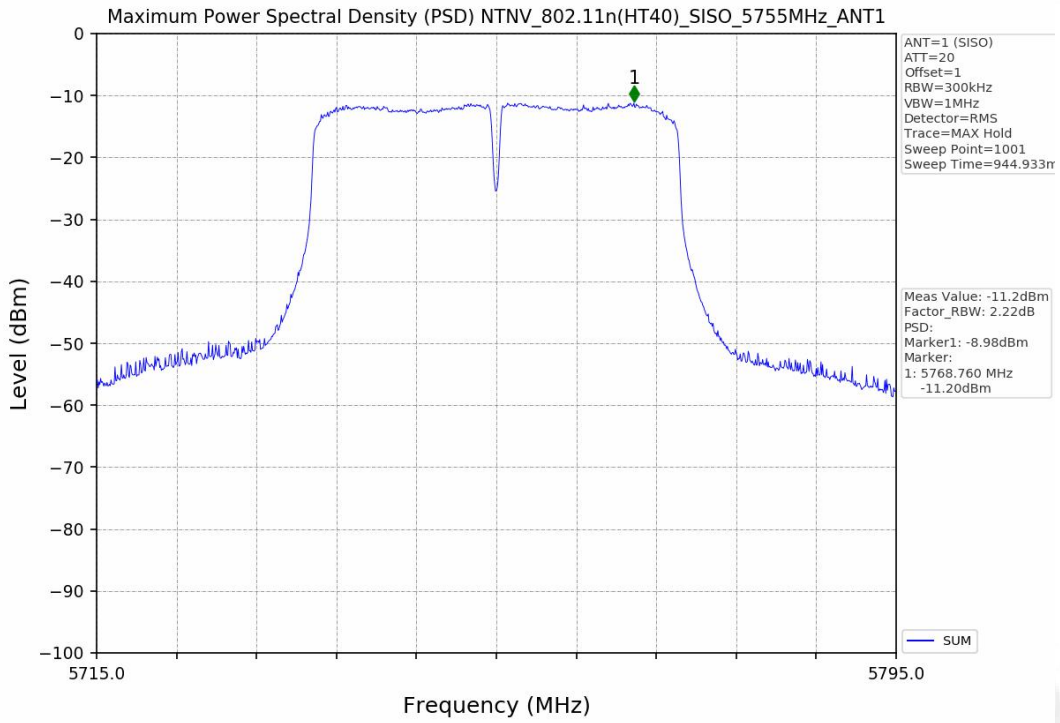

Maximum Power Spectral Density (PSD) NTNV_802.11a_SISO_5785MHz_ANT1
Level (dBm)
Frequency (MHz)
5765.0
5805.0
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
−100
1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=300kHz
VBW=1MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=248.2ms
Meas Value: -8.8dBm
Factor_RBW: 2.22dB
PSD:
Marker1: -6.58dBm
Marker:
1: 5779.400 MHz
-8.80dBm
SUM

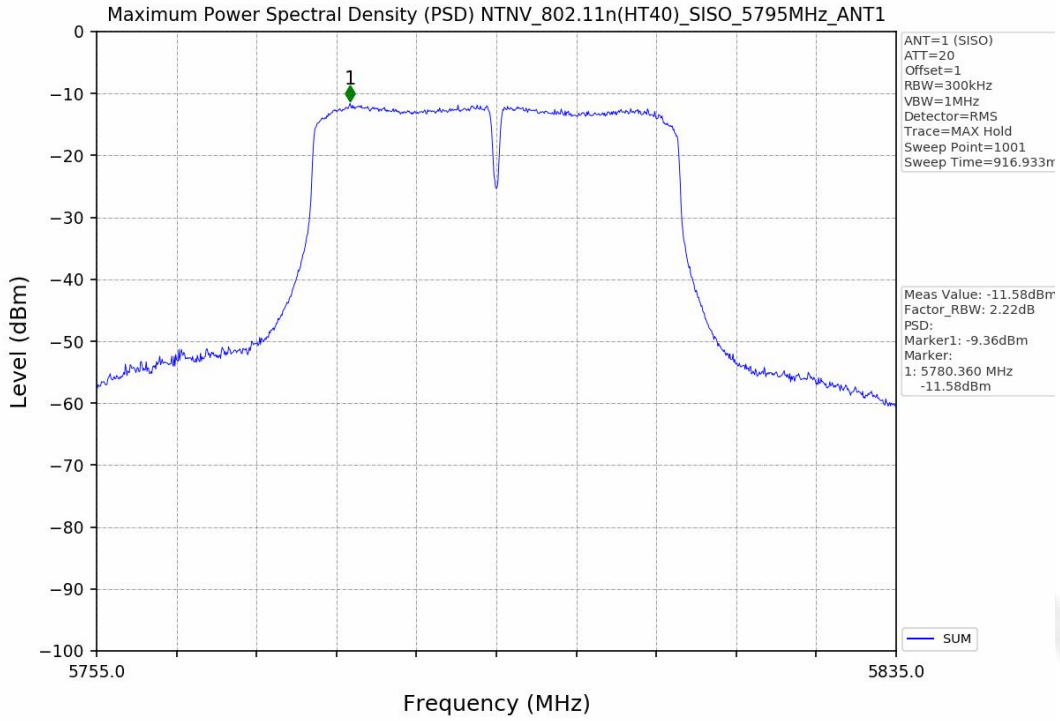

Maximum Power Spectral Density (PSD) NTNV_802.11a_SISO_5825MHz_ANT1
Level (dBm)
Frequency (MHz)
5805.0
5845.0
ANT=1 (SISO)
ATT=20
Offset=1
RBW=300kHz
VBW=1MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=248.2ms
Meas Value: -9.58dBm
Factor_RBW: 2.22dB
PSD:
Marker1: -7.36dBm
Marker:
1: 5819.960 MHz
-9.58dBm
SUM

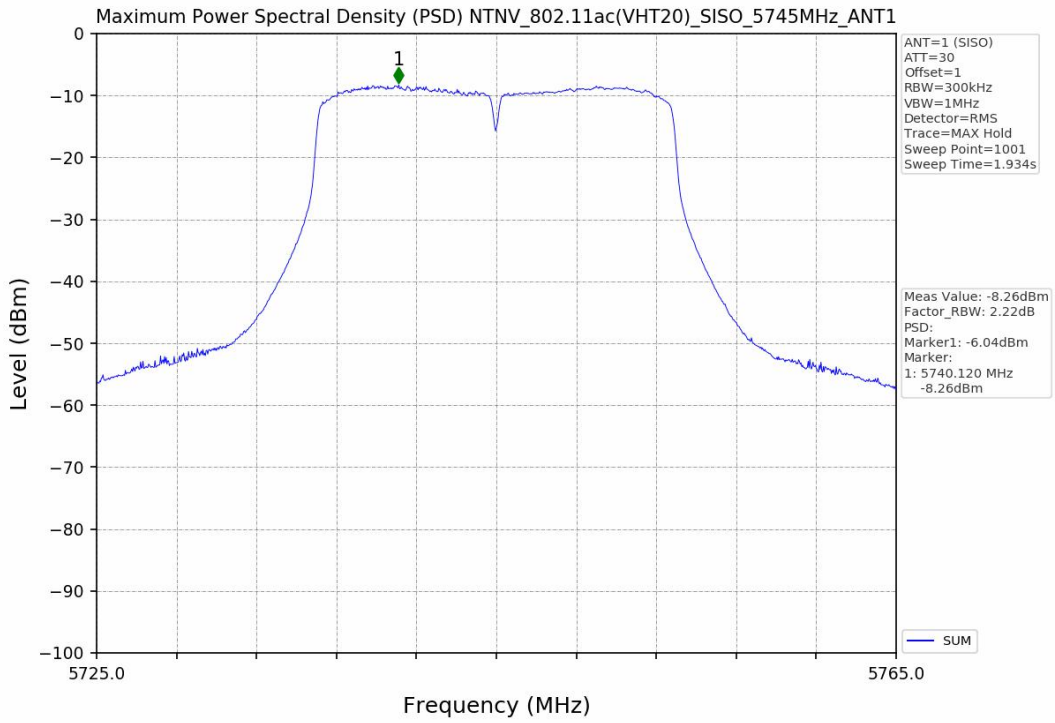

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT20)_SISO_5745MHz_ANT1
Level (dBm)
Frequency (MHz)
5725.0
5765.0
ANT=1 (SISO)
ATT=30
Offset=1
RBW=300kHz
VBW=1MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.922s
Meas Value: -8.9dBm
Factor_RBW: 2.22dB
PSD:
Marker1: -6.68dBm
Marker:
1: 5738.720 MHz
-8.90dBm
SUM

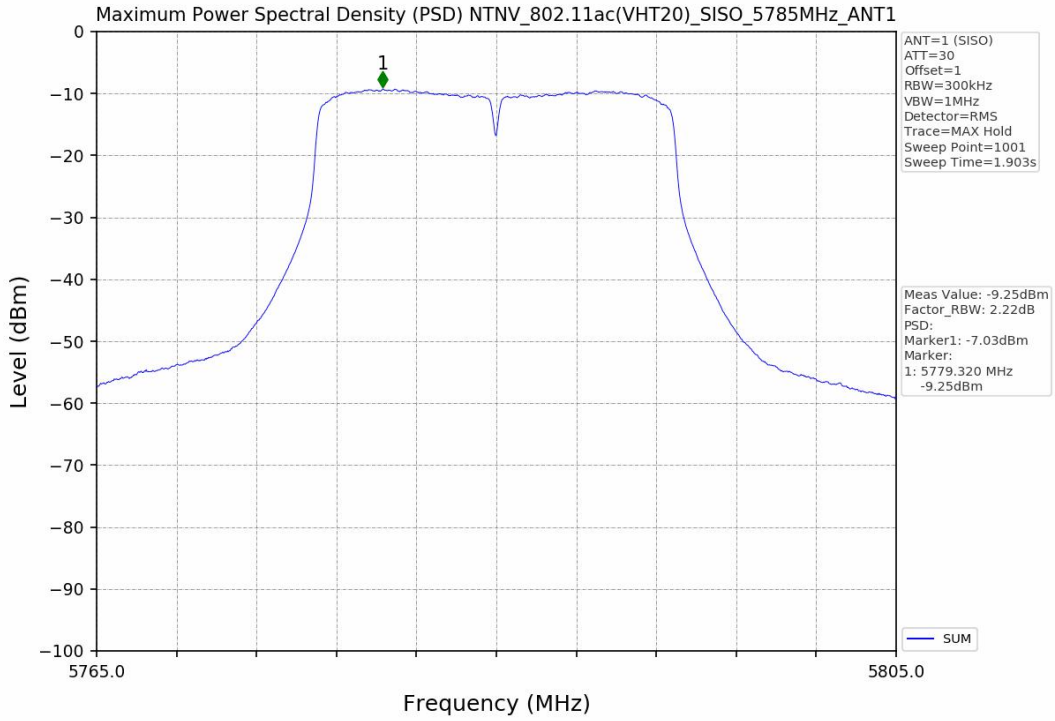

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT20)_SISO_5785MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=300kHz
VBW=1MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.922s
Meas Value: -9.38dBm
Factor_RBW: 2.22dB
PSD:
Marker1: -7.16dBm
Marker:
1: 5779.960 MHz
-9.38dBm
SUM
Level (dBm)
Frequency (MHz)
5765.0
5805.0

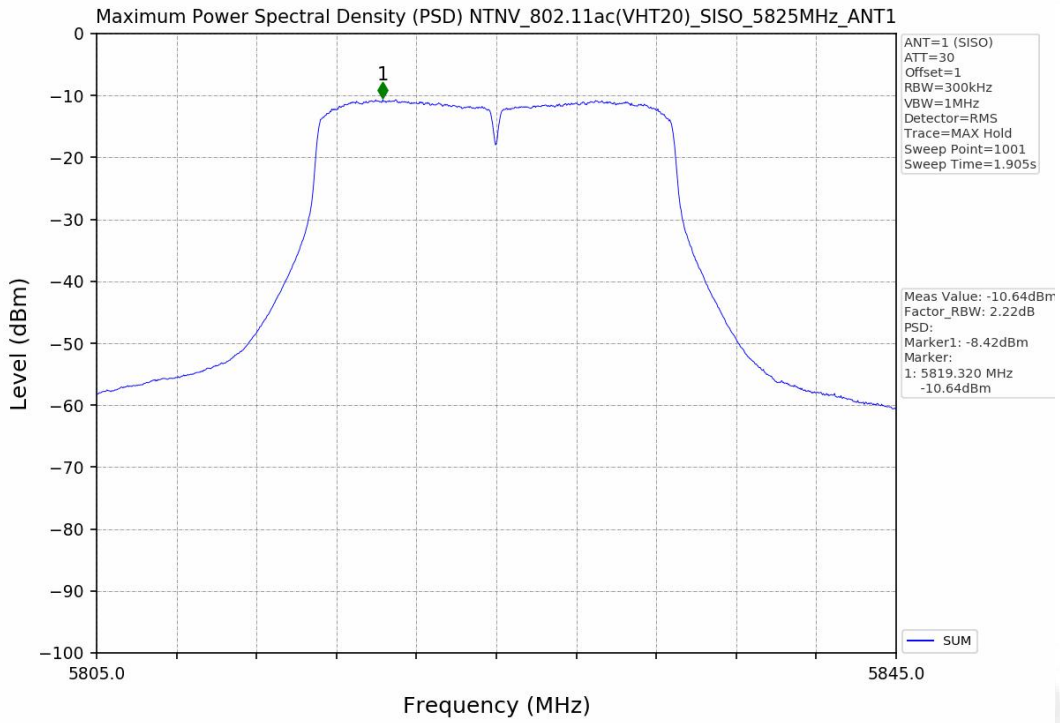

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT20)_SISO_5825MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=300kHz
VBW=1MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.897s
Meas Value: -10.73dBm
Factor_RBW: 2.22dB
PSD:
Marker1: -8.51dBm
Marker:
1: 5819.040 MHz
-10.73dBm
SUM
Level (dBm)
Frequency (MHz)
5805.0
5845.0

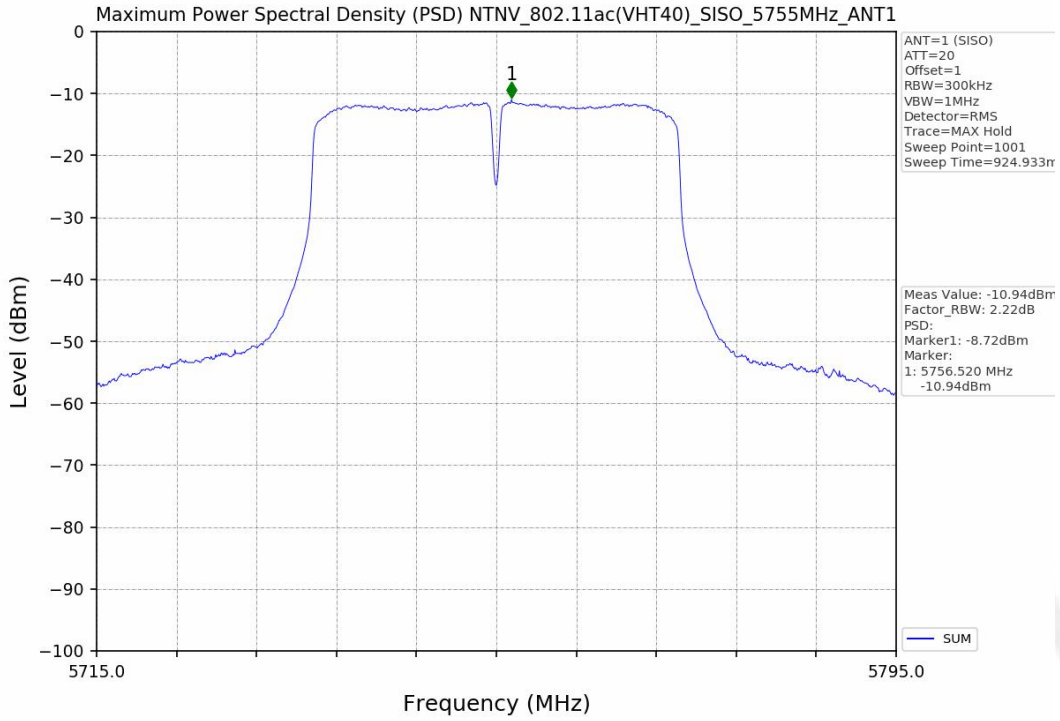

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT40)_SISO_5755MHz_ANT1
Level (dBm)
Frequency (MHz)
5715.0
5795.0
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
−100
1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=300kHz
VBW=1MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=944.933m
Meas Value: -11.2dBm
Factor_RBW: 2.22dB
PSD:
Marker1: -8.98dBm
Marker:
1: 5768.760 MHz
-11.20dBm
SUM

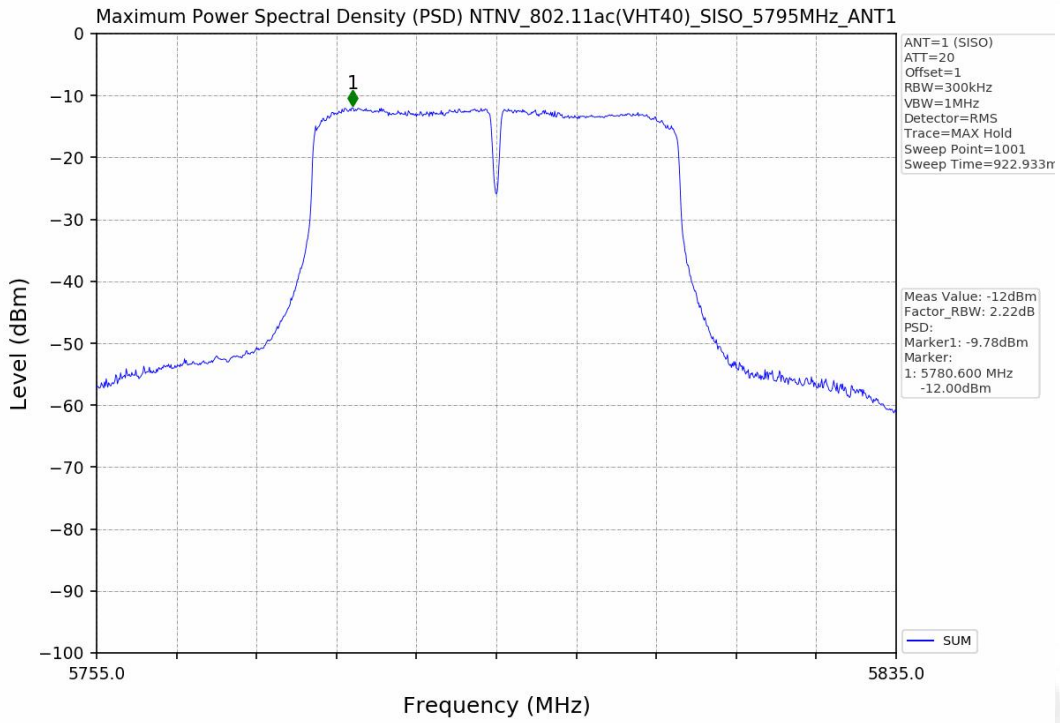

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT40)_SISO_5795MHz_ANT1
Level (dBm)
Frequency (MHz)
5755.0
5835.0
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
−100
1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=300kHz
VBW=1MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=916.933m
Meas Value: -11.58dBm
Factor_RBW: 2.22dB
PSD:
Marker1: -9.36dBm
Marker:
1: 5780.360 MHz
-11.58dBm
SUM

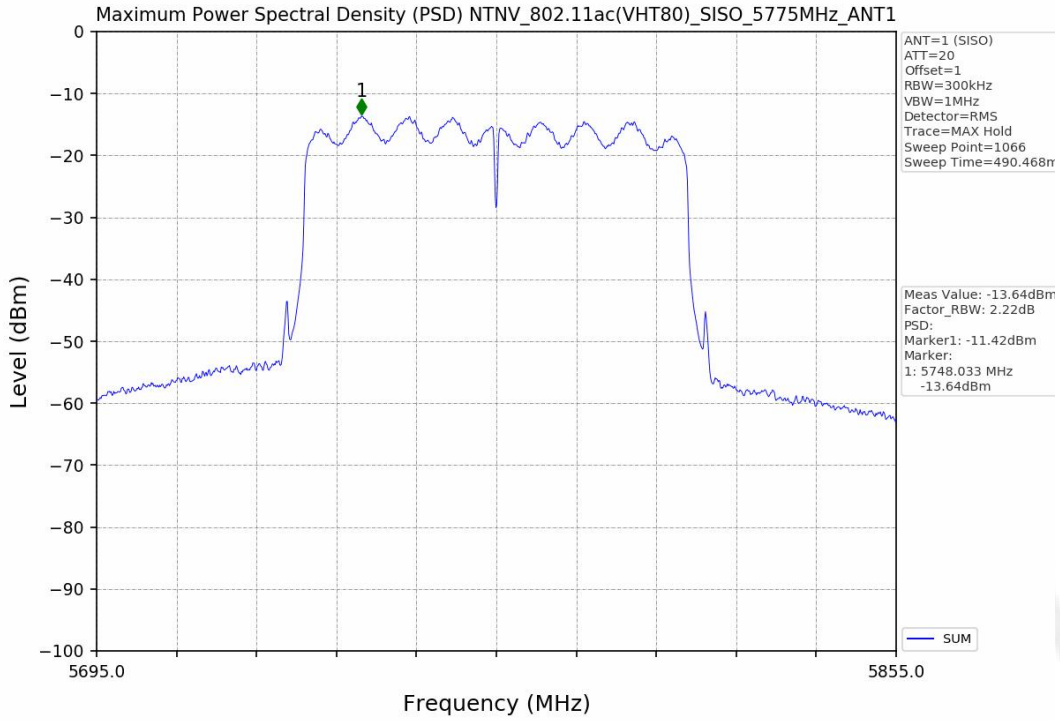

Maximum Power Spectral Density (PSD) NTNV_802.11ac(VHT20)_SISO_5745MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=300kHz
VBW=1MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.934s
Meas Value: -8.26dBm
Factor_RBW: 2.22dB
PSD:
Marker1: -6.04dBm
Marker:
1: 5740.120 MHz
-8.26dBm
SUM
Level (dBm)
Frequency (MHz)
5725.0
5765.0


Maximum Power Spectral Density (PSD) NTNV_802.11ac(VHT20)_SISO_5785MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=300kHz
VBW=1MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.903s
Meas Value: -9.25dBm
Factor_RBW: 2.22dB
PSD:
Marker1: -7.03dBm
Marker:
1: 5779.320 MHz
-9.25dBm
SUM
Level (dBm)
Frequency (MHz)
5765.0
5805.0


Maximum Power Spectral Density (PSD) NTNV_802.11ac(VHT20)_SISO_5825MHz_ANT1
ANT=1 (SISO)
ATT=30
Offset=1
RBW=300kHz
VBW=1MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.905s
Meas Value: -10.64dBm
Factor_RBW: 2.22dB
PSD:
Marker1: -8.42dBm
Marker:
1: 5819.320 MHz
-10.64dBm
SUM
Level (dBm)
Frequency (MHz)
5805.0
5845.0


Maximum Power Spectral Density (PSD) NTNV_802.11ac(VHT40)_SISO_5755MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=300kHz
VBW=1MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=924.933m
Meas Value: -10.94dBm
Factor_RBW: 2.22dB
PSD:
Marker1: -8.72dBm
Marker:
1: 5756.520 MHz
-10.94dBm
SUM
Level (dBm)
Frequency (MHz)
5715.0
5795.0


Maximum Power Spectral Density (PSD) NTNV_802.11ac(VHT40)_SISO_5795MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=300kHz
VBW=1MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1001
Sweep Time=922.933m
Meas Value: -12dBm
Factor_RBW: 2.22dB
PSD:
Marker1: -9.78dBm
Marker:
1: 5780.600 MHz
-12.00dBm
SUM
Level (dBm)
Frequency (MHz)
5755.0
5835.0


Maximum Power Spectral Density (PSD) NTNV_802.11ac(VHT80)_SISO_5775MHz_ANT1
ANT=1 (SISO)
ATT=20
Offset=1
RBW=300kHz
VBW=1MHz
Detector=RMS
Trace=MAX Hold
Sweep Point=1066
Sweep Time=490.468m
Meas Value: -13.64dBm
Factor_RBW: 2.22dB
PSD:
Marker1: -11.42dBm
Marker:
1: 5748.033 MHz
-13.64dBm
SUM
Level (dBm)
Frequency (MHz)
5695.0
5855.0

4. Frequency Stability

4.1 Test Result

Test Condition	Test Mode	Test Frequency [MHz]	Ant	Result [ppm]	Limit [ppm]	Verdict
NTNV	802.11a	5745	1	0	<=20	PASS
		5785	1	3.46	<=20	PASS
		5825	1	-3.43	<=20	PASS
	802.11n	5755	1	-6.95	<=20	PASS
		5795	1	-6.9	<=20	PASS
	802.11ac	5775	1	0	<=20	PASS