

10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.366	1.562	87.45	0.58	0.03
		5200	1.366	1.563	87.40	0.59	0.03
		5240	1.367	1.563	87.46	0.58	0.03
		5260	1.366	1.562	87.45	0.58	0.03
		5300	1.366	1.562	87.45	0.58	0.03
		5320	1.366	1.562	87.45	0.58	0.03
		5500	1.366	1.562	87.45	0.58	0.03
		5580	1.366	1.563	87.40	0.59	0.03
		5700	1.367	1.563	87.46	0.58	0.03
		5745	1.366	1.562	87.45	0.58	0.03
		5785	1.366	1.563	87.40	0.59	0.03
		5825	1.366	1.563	87.40	0.59	0.03
802.11n (HT20)	SISO	5180	1.278	1.474	86.70	0.62	0.03
		5200	1.279	1.475	86.71	0.62	0.00
		5240	1.277	1.473	86.69	0.62	0.03
		5260	1.278	1.474	86.70	0.62	0.00
		5300	1.278	1.474	86.70	0.62	0.03
		5320	1.278	1.475	86.64	0.62	0.06
		5500	1.278	1.474	86.70	0.62	0.00
		5580	1.278	1.474	86.70	0.62	0.00
		5700	1.278	1.474	86.70	0.62	0.03
		5745	1.279	1.475	86.71	0.62	0.06
		5785	1.278	1.474	86.70	0.62	0.06
		5825	1.278	1.474	86.70	0.62	0.00
802.11n (HT40)	SISO	5190	0.638	0.835	76.41	1.17	0.01
		5230	0.639	0.836	76.44	1.17	0.02
		5270	0.638	0.835	76.41	1.17	0.03
		5310	0.638	0.835	76.41	1.17	0.03
		5510	0.638	0.836	76.32	1.17	0.06
		5550	0.638	0.835	76.41	1.17	0.01
		5670	0.638	0.836	76.32	1.17	0.06
		5755	0.638	0.835	76.41	1.17	0.02



Compliance Certification Services (Kunshan) Inc.

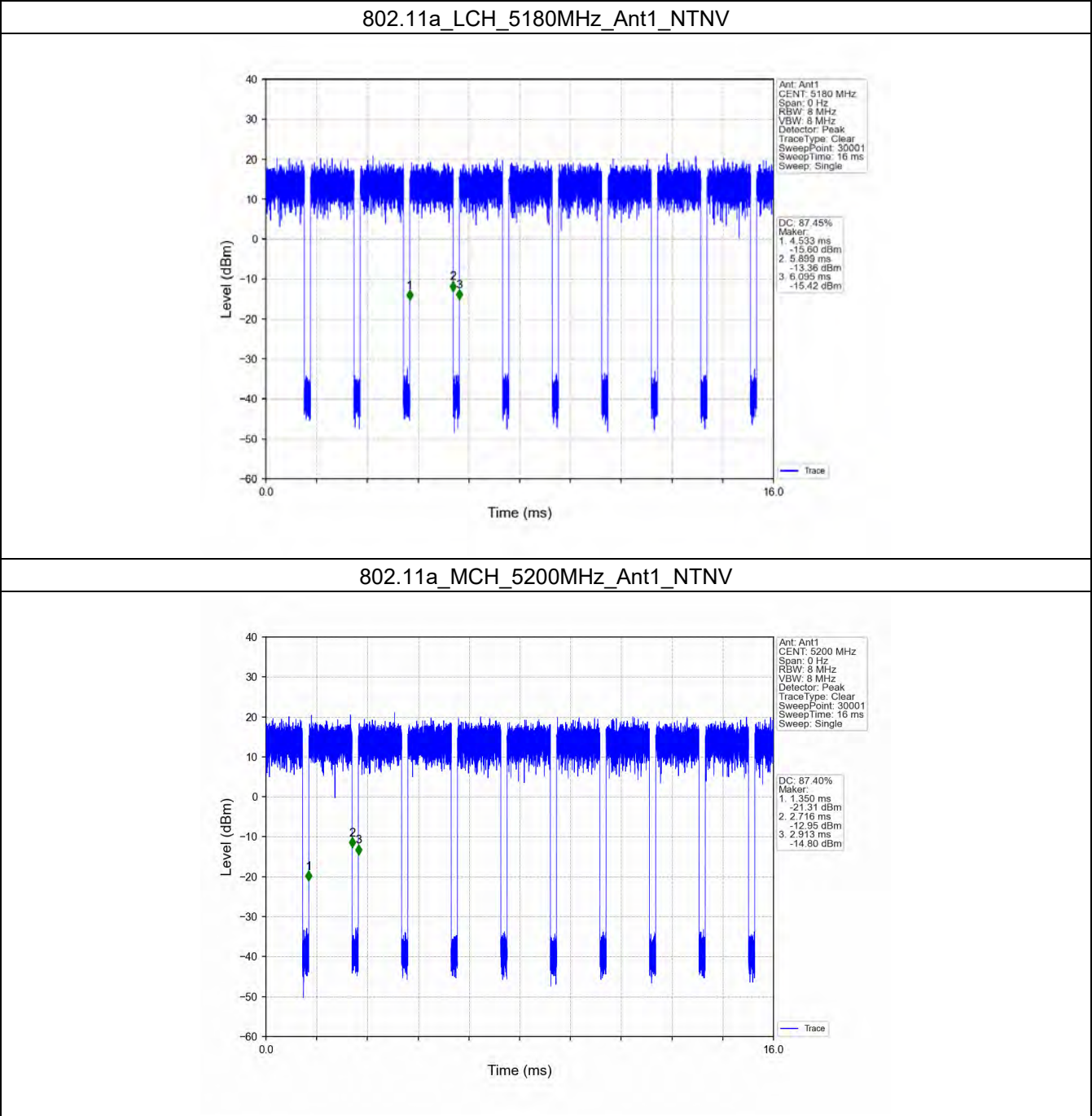
CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

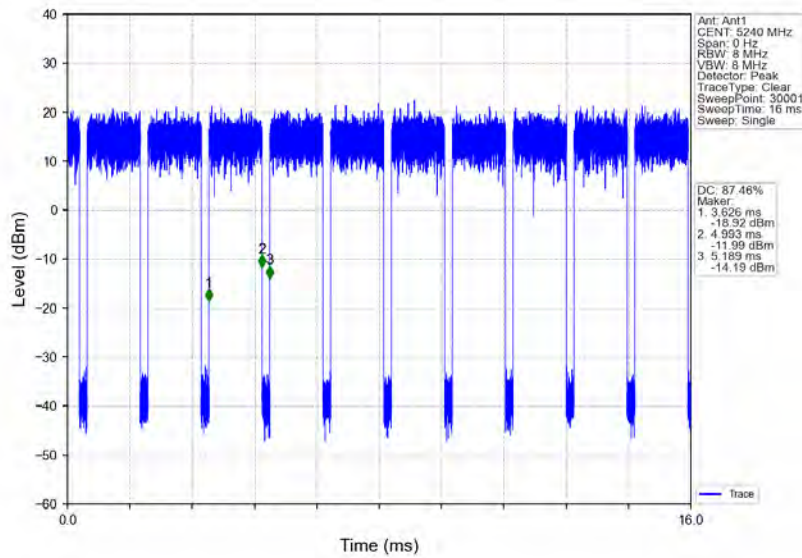
Page: 174 of 315

		5795	0.638	0.835	76.41	1.17	0.02
802.11ac (VHT80)	SISO	5210	0.250	0.448	55.80	2.53	0.04
		5290	0.250	0.448	55.80	2.53	0.07
		5530	0.250	0.448	55.80	2.53	0.06
		5610	0.250	0.448	55.80	2.53	0.03
		5775	0.250	0.448	55.80	2.53	0.03

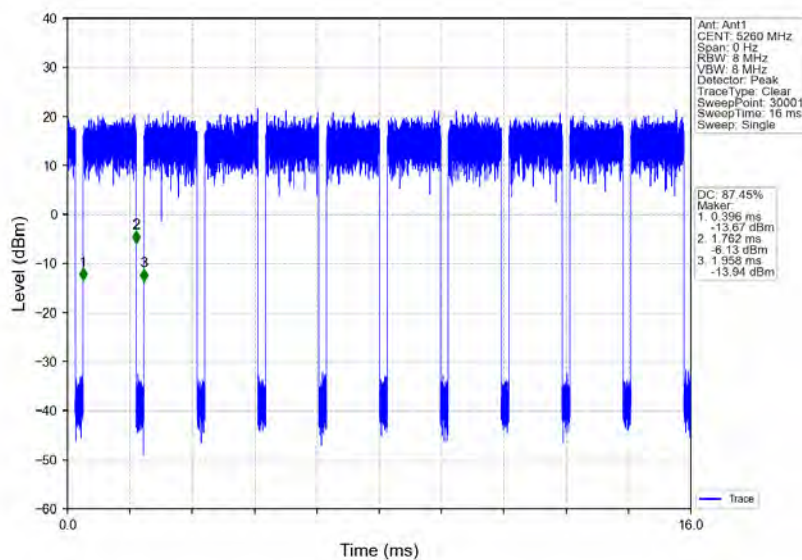
1.1.2 Test Graph



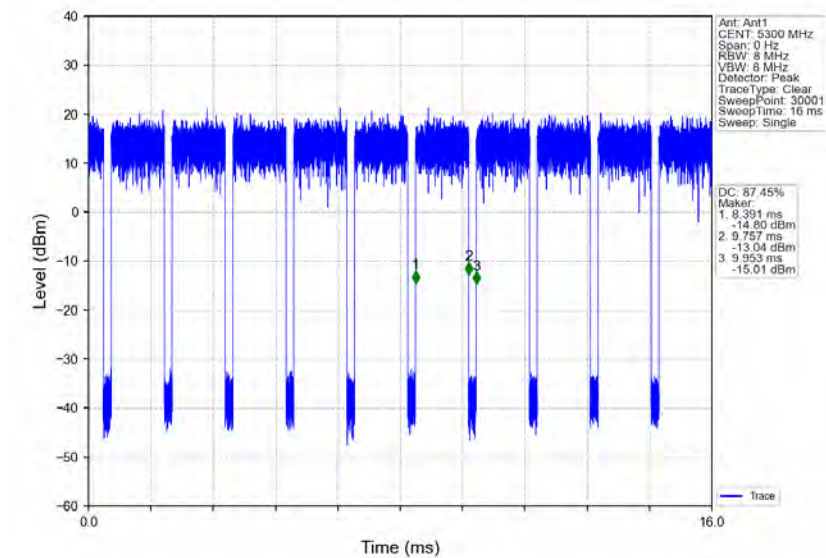
802.11a_HCH_5240MHz_Ant1_NTNV



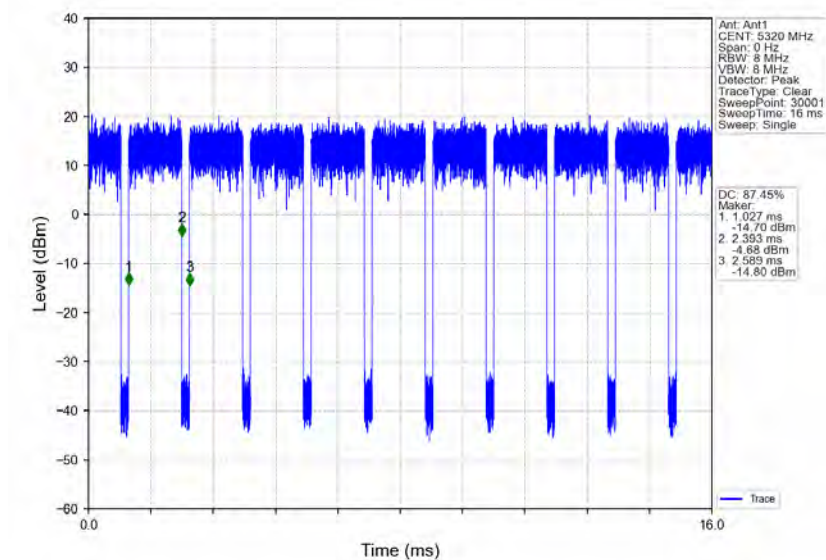
802.11a_LCH_5260MHz_Ant1_NTNV



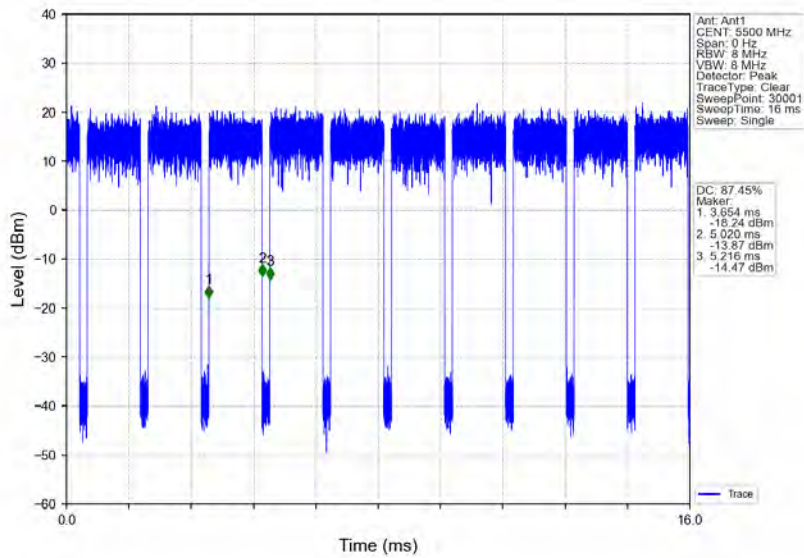
802.11a_MCH_5300MHz_Ant1_NTNV



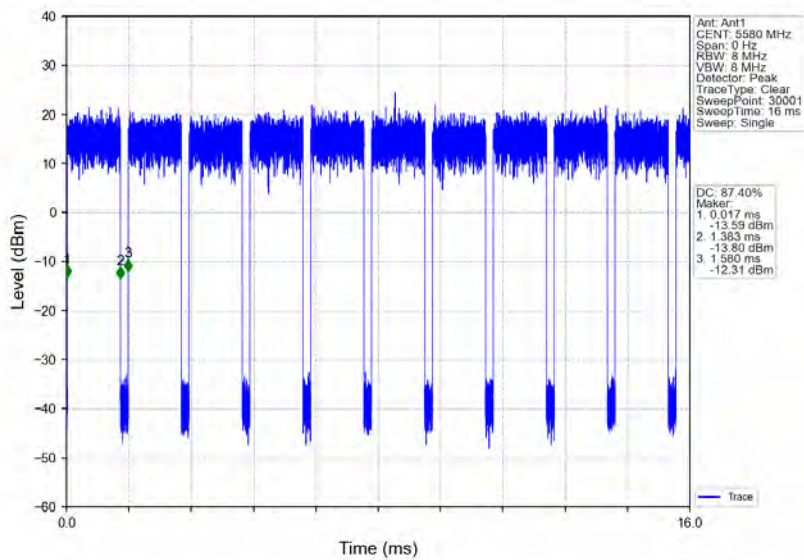
802.11a_HCH_5320MHz_Ant1_NTNV



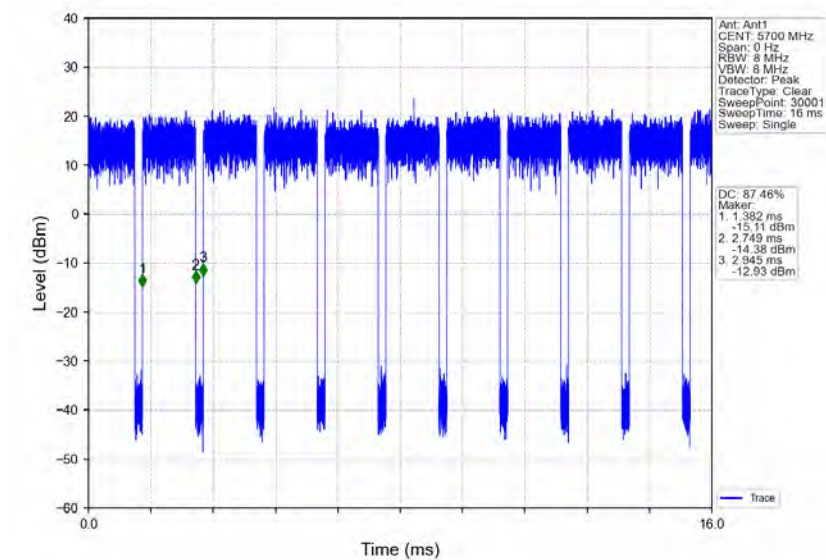
802.11a_LCH_5500MHz_Ant1_NTNV



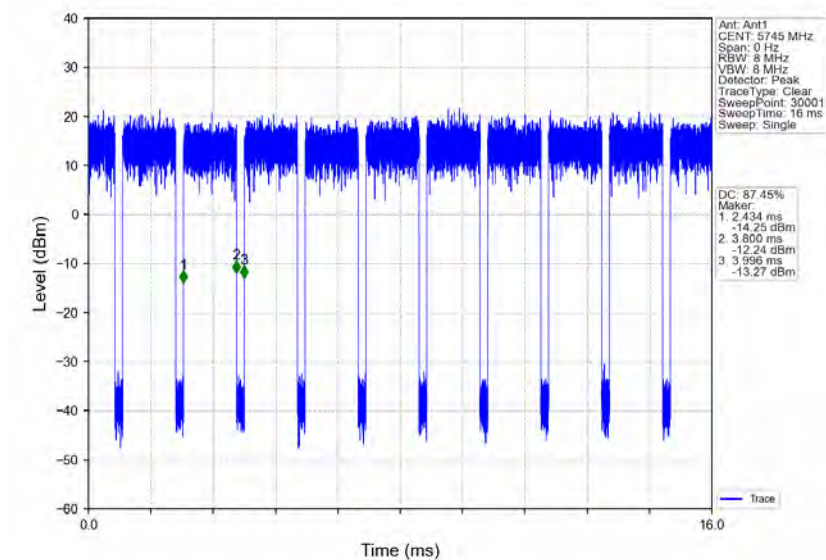
802.11a_MCH_5580MHz_Ant1_NTNV



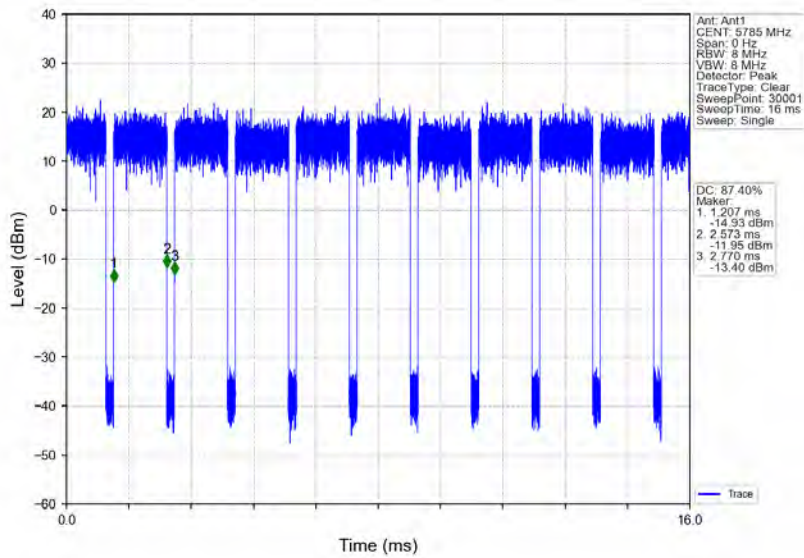
802.11a_HCH_5700MHz_Ant1_NTNV



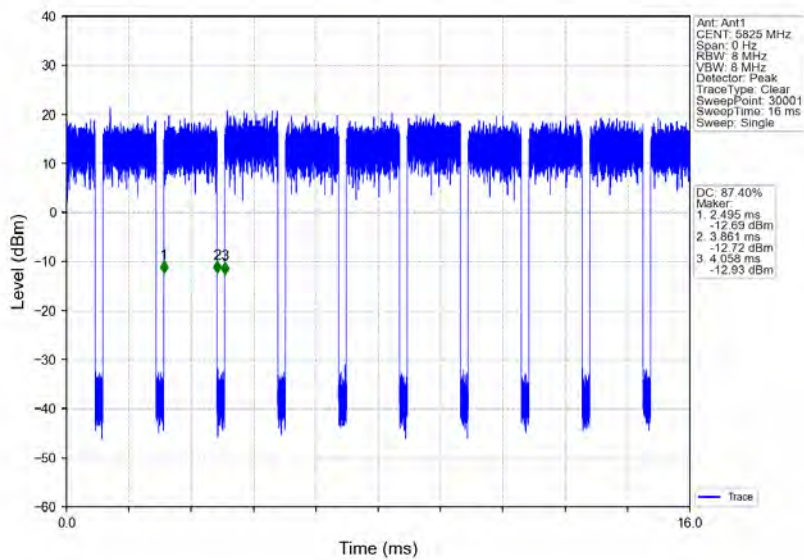
802.11a_LCH_5745MHz_Ant1_NTNV



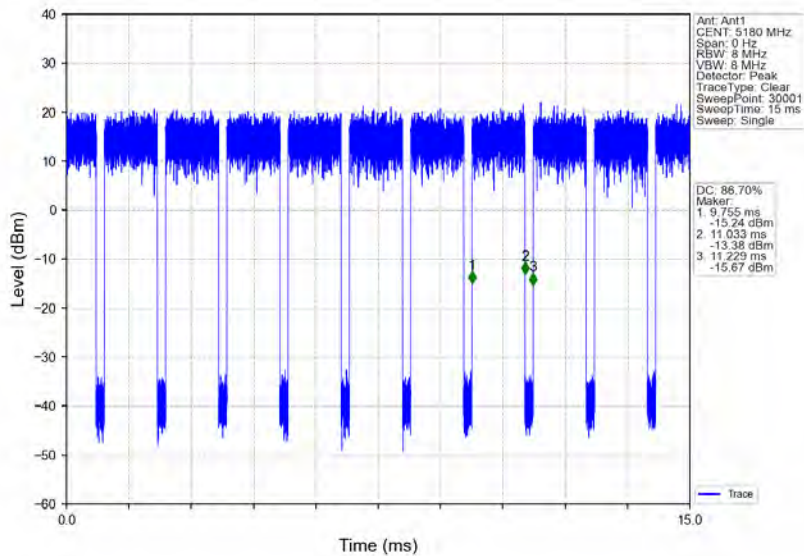
802.11a_MCH_5785MHz_Ant1_NTNV



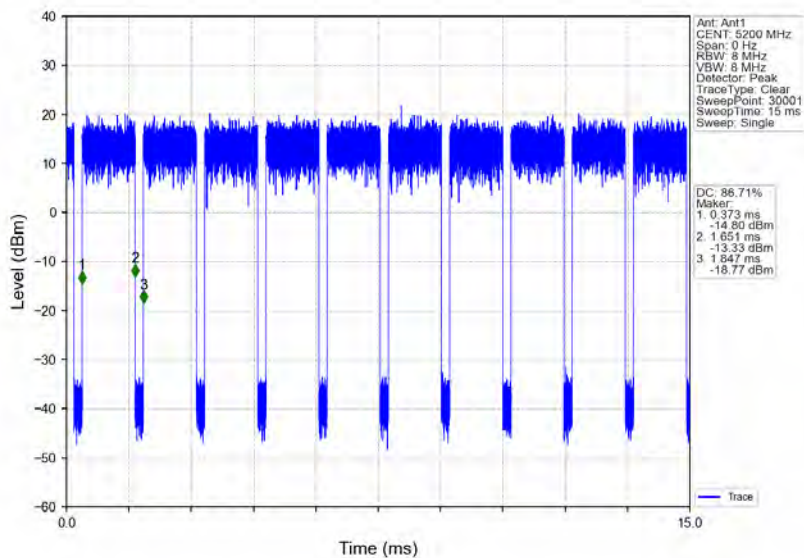
802.11a_HCH_5825MHz_Ant1_NTNV



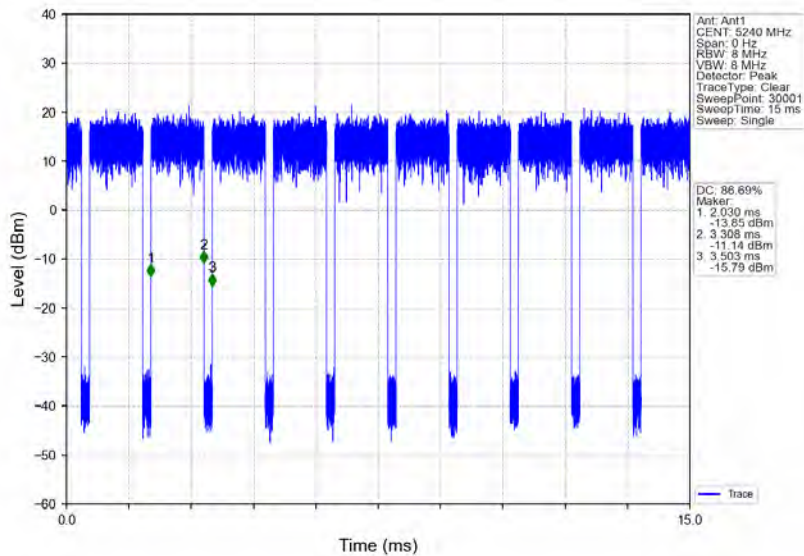
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



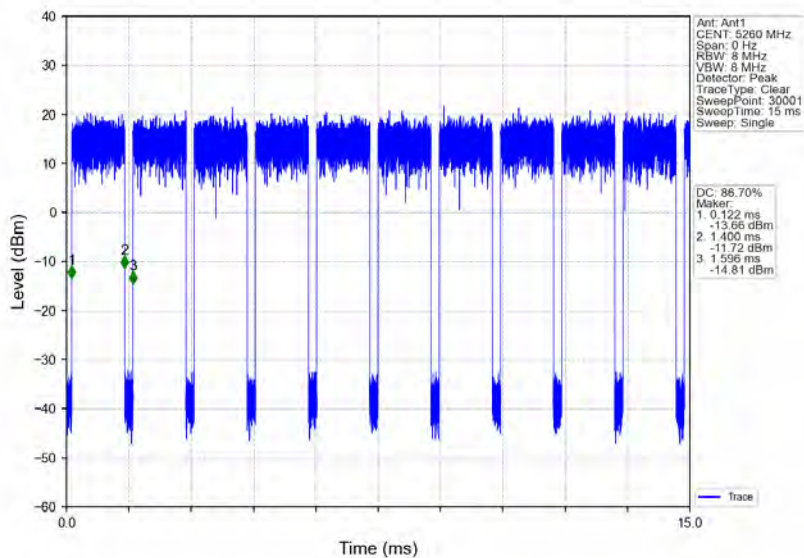
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



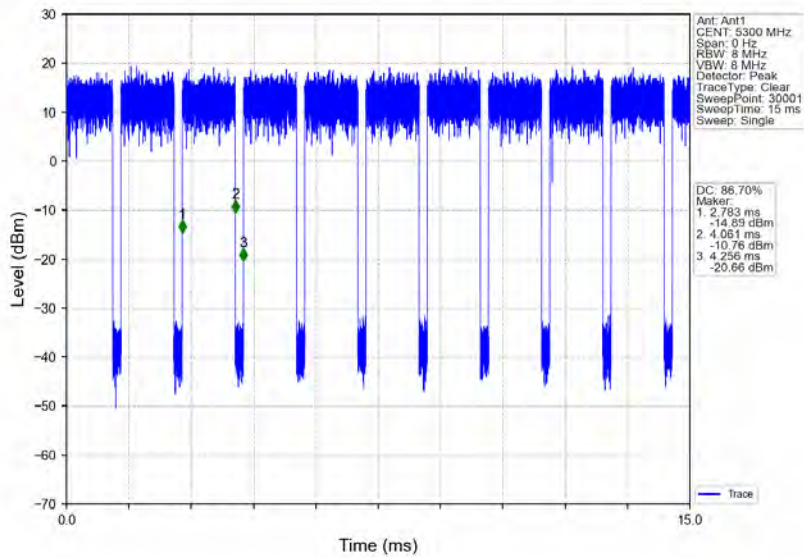
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



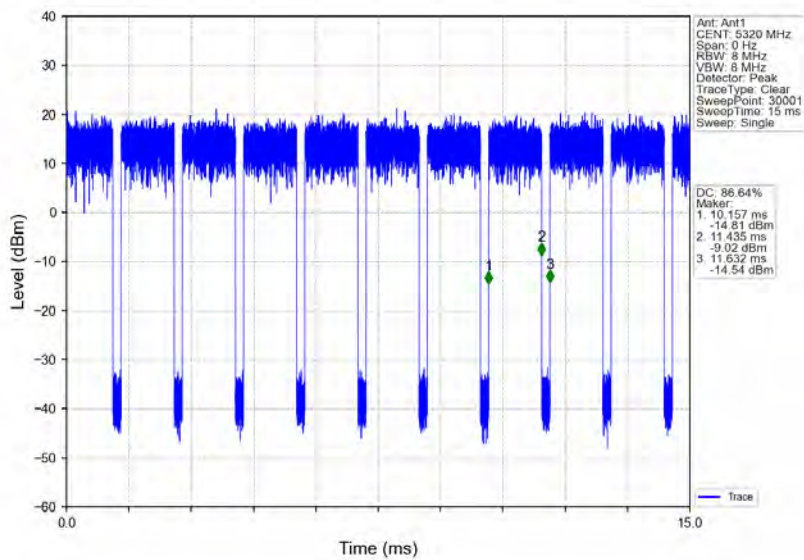
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



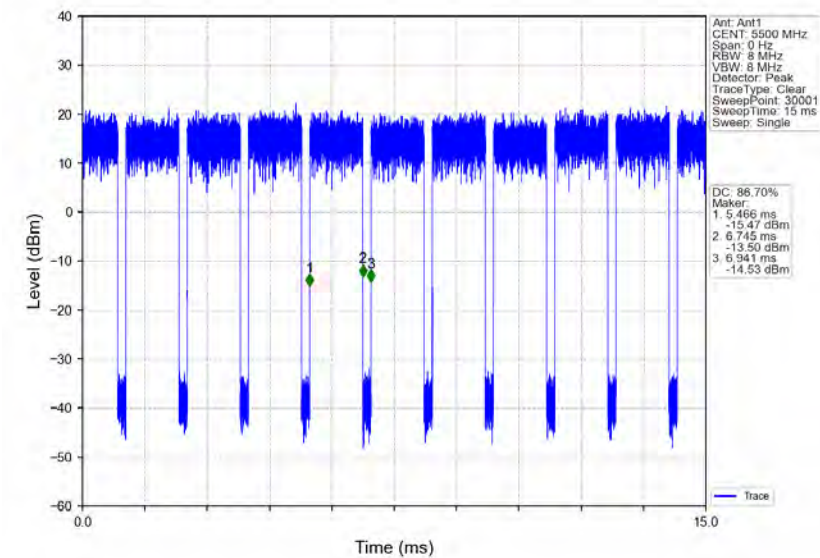
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

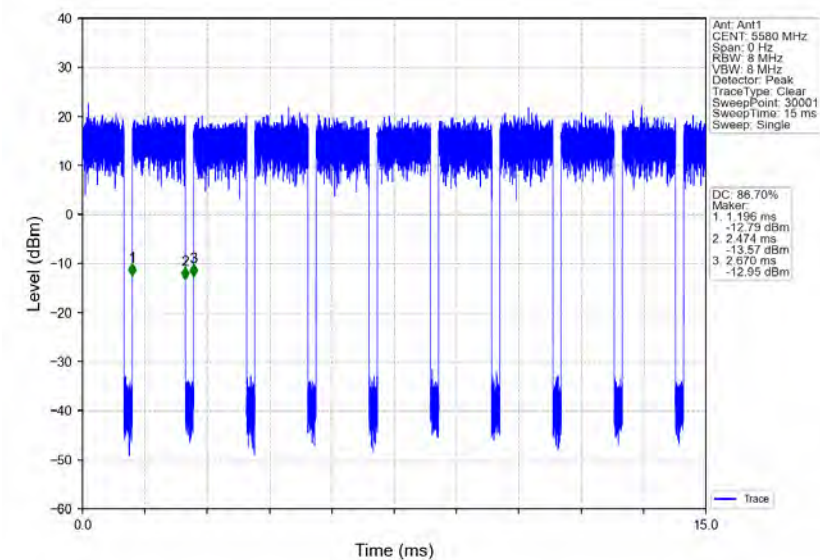
Report No.: KSCR231100205204

Page: 184 of 315

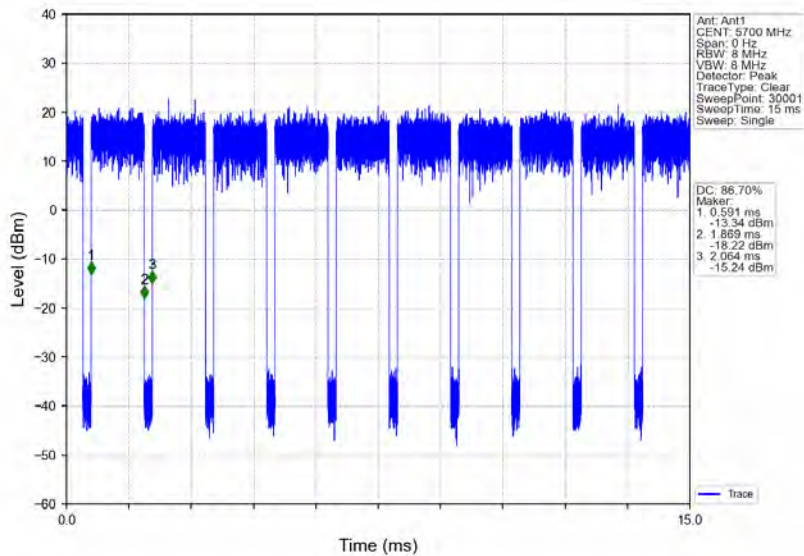
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



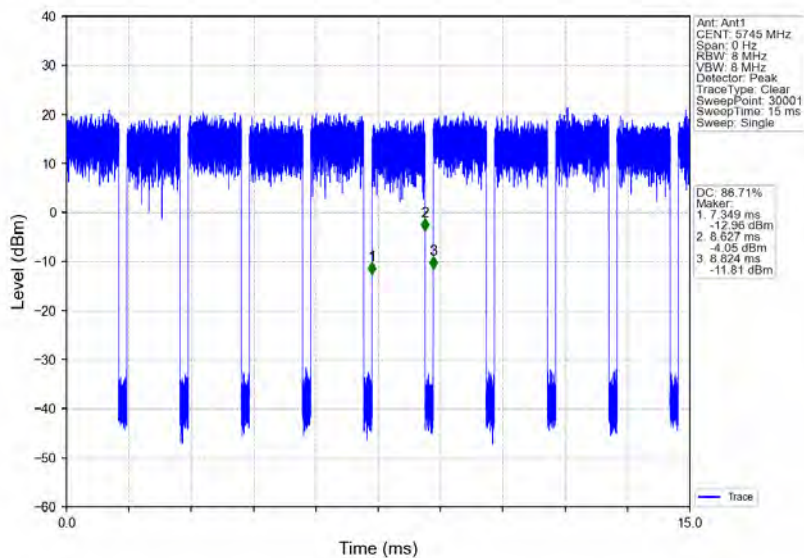
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



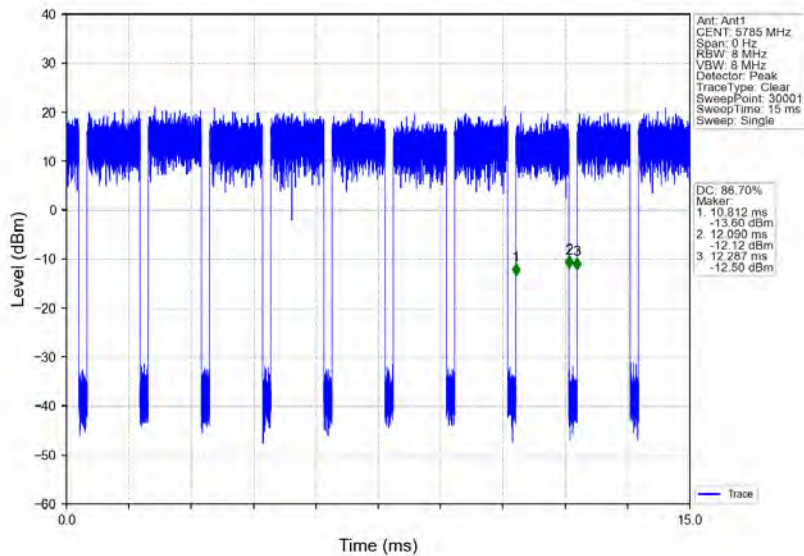
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



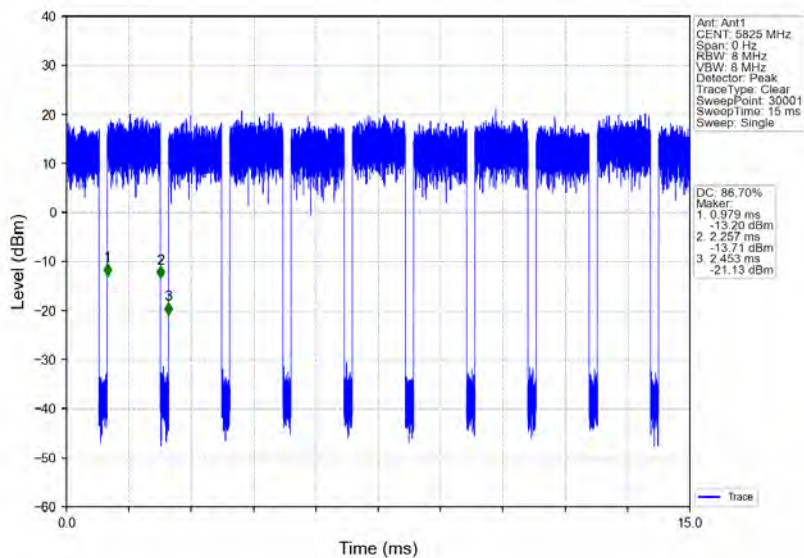
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



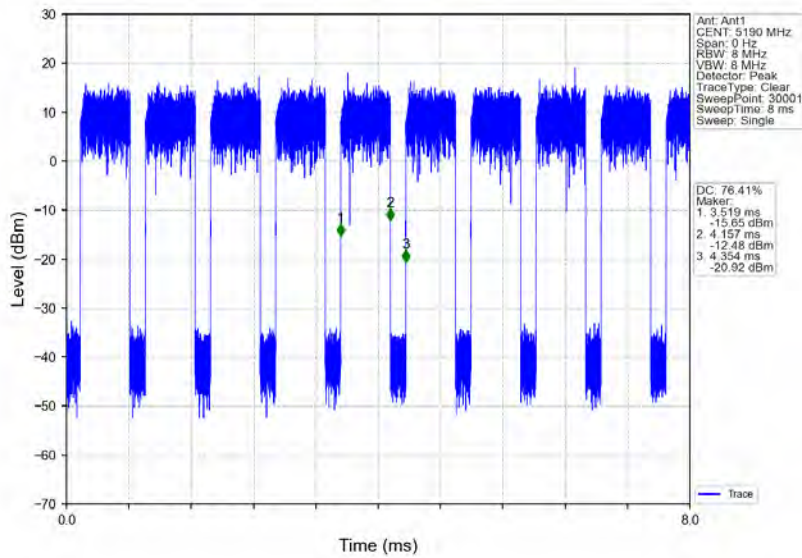
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



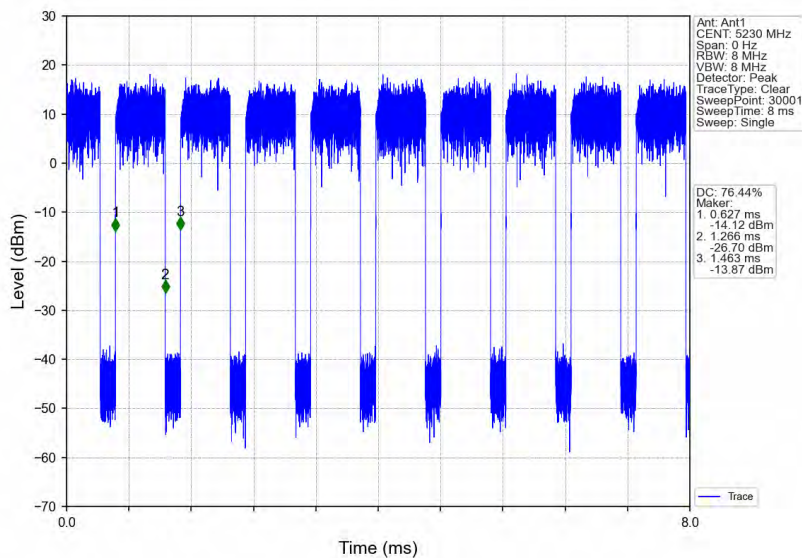
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



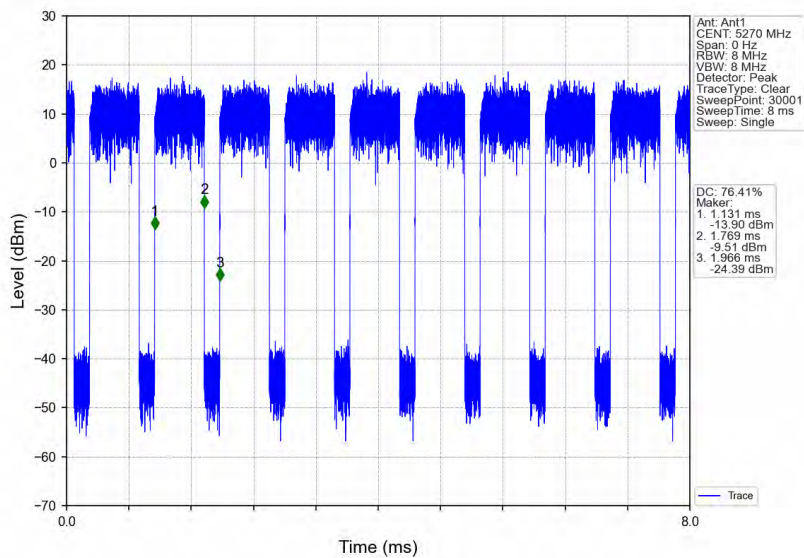
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



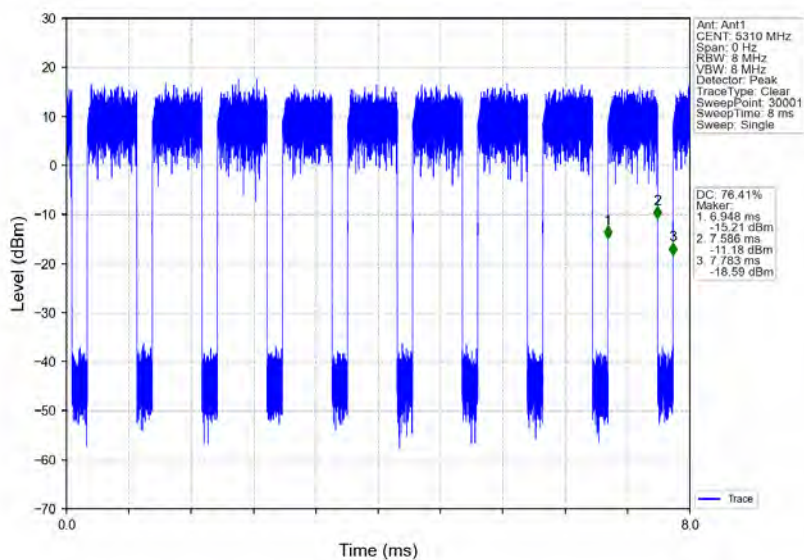
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



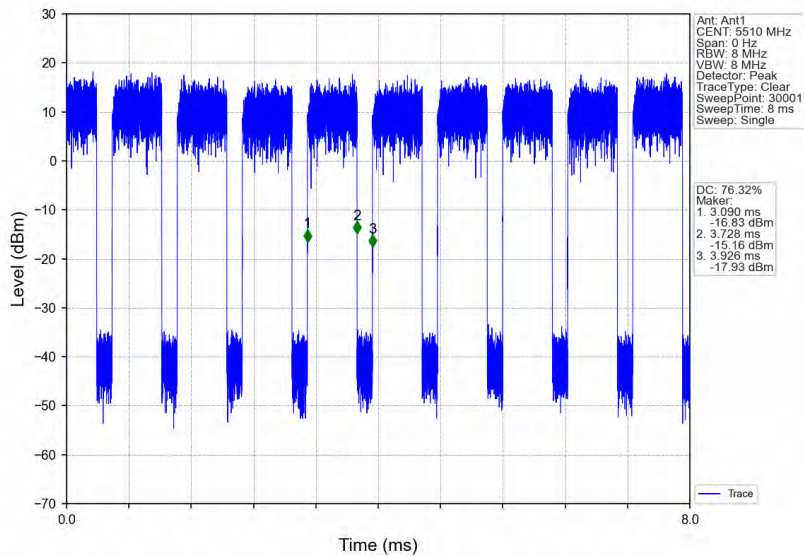
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



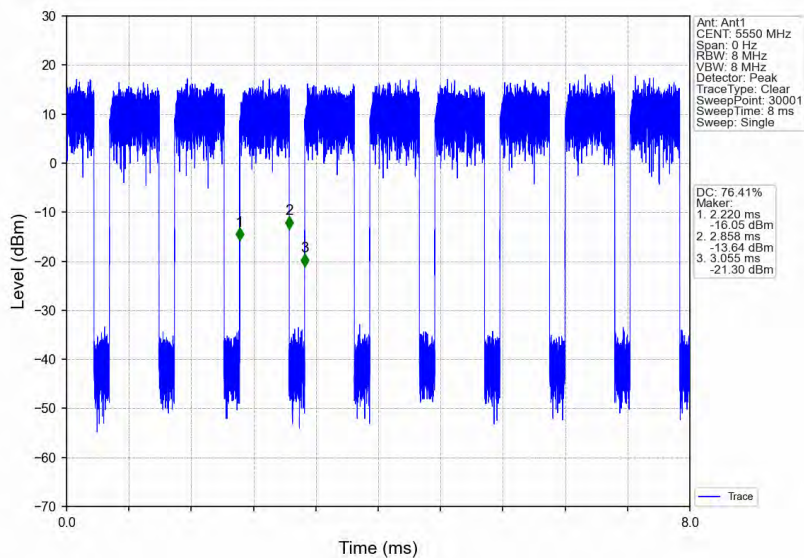
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



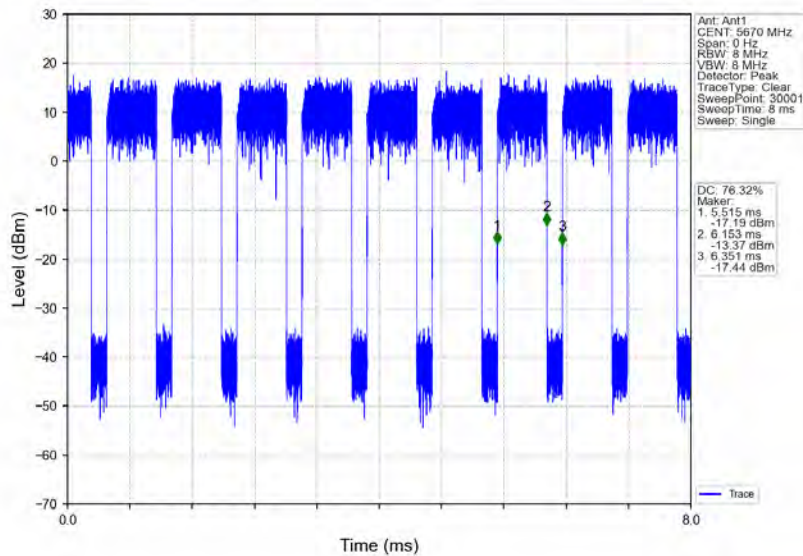
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

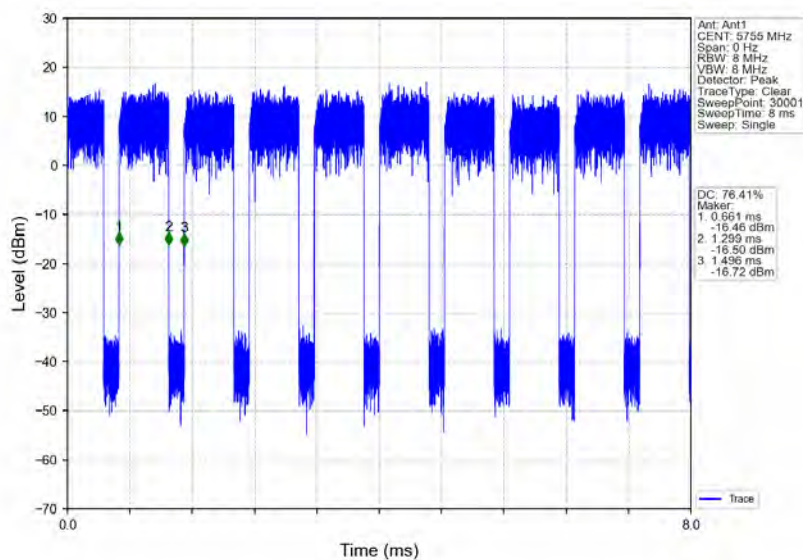
Report No.: KSCR231100205204

Page: 190 of 315

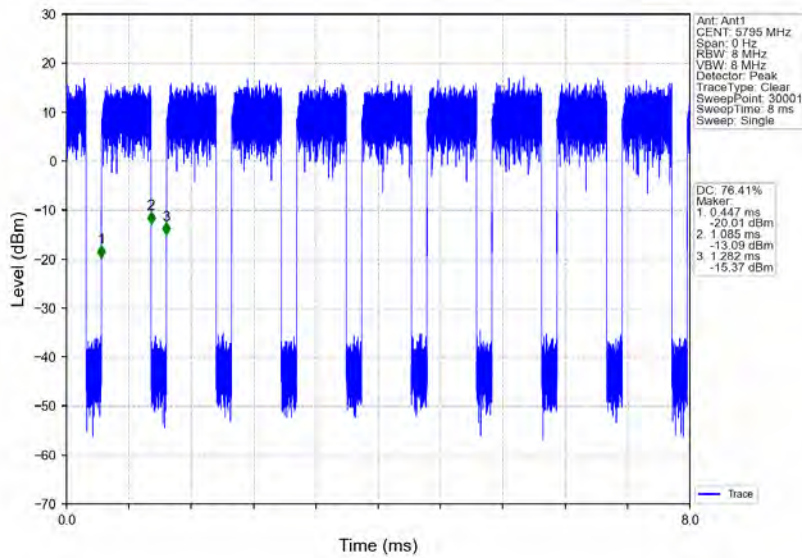
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



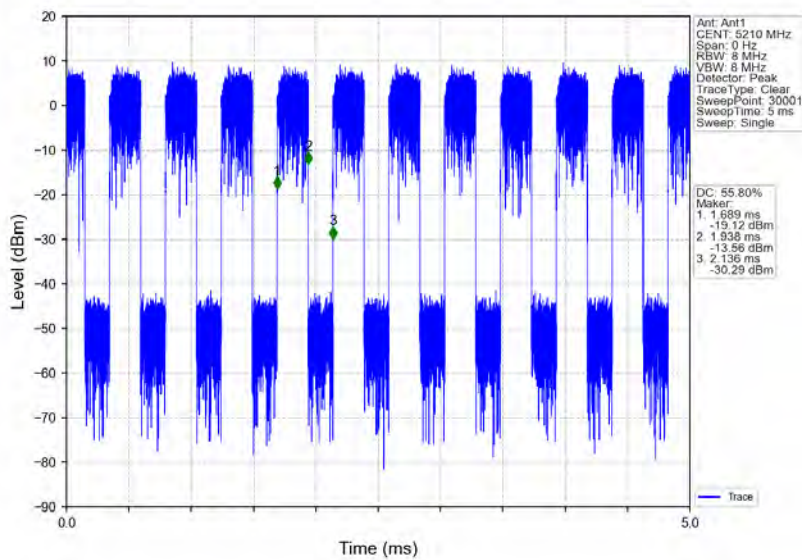
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



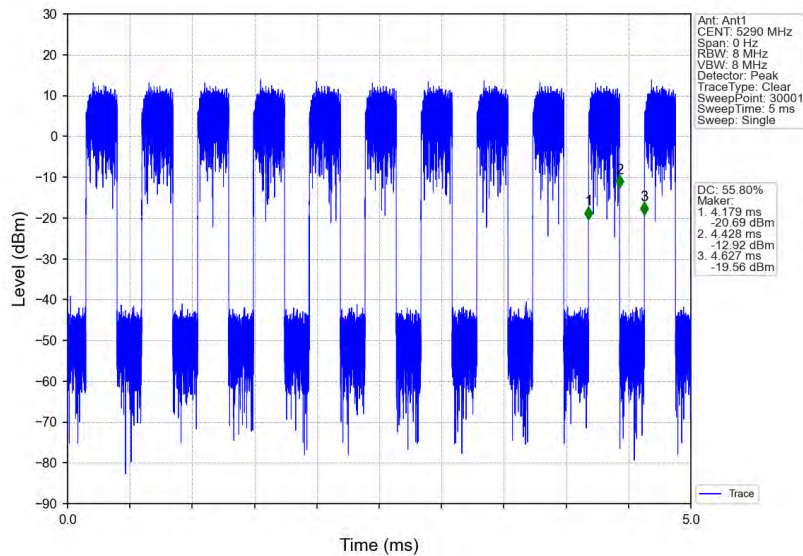
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



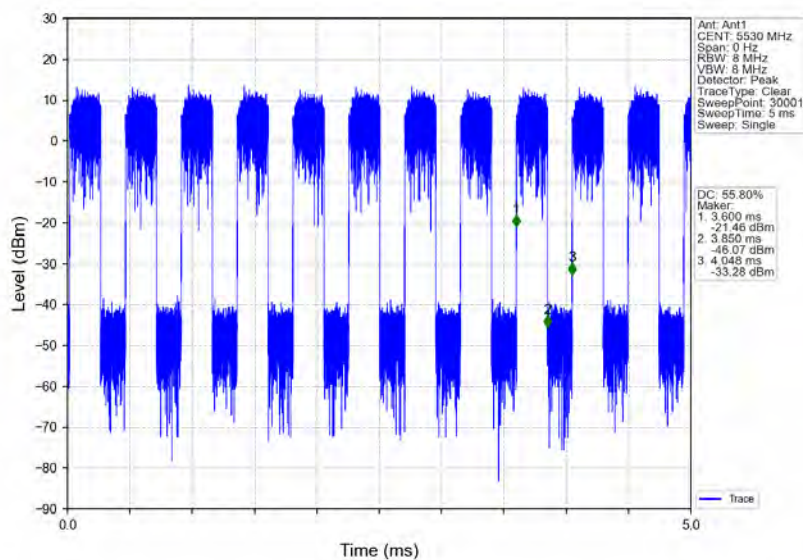
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



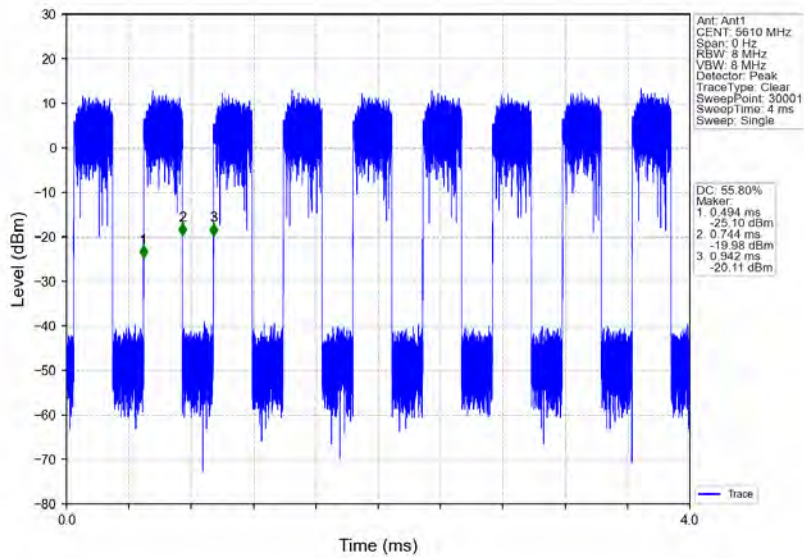
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



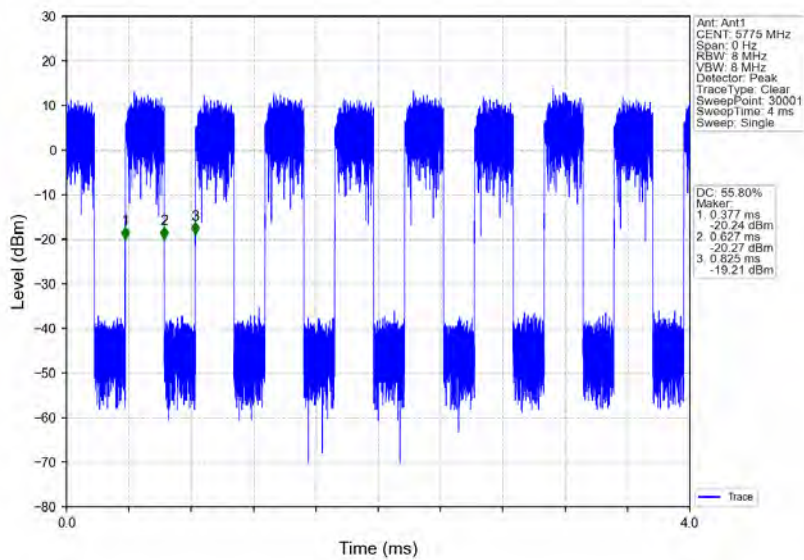
802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 194 of 315

2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	18.069	/	Pass
		5200	1	18.225	/	Pass
		5240	1	18.088	/	Pass
		5260	1	18.152	/	Pass
		5300	1	18.230	/	Pass
		5320	1	18.159	/	Pass
		5500	1	18.053	/	Pass
		5580	1	18.064	/	Pass
		5700	1	18.147	/	Pass
		5745	1	18.053	/	Pass
		5785	1	18.132	/	Pass
		5825	1	18.145	/	Pass
802.11n (HT20)	SISO	5180	1	18.945	/	Pass
		5200	1	18.904	/	Pass
		5240	1	18.885	/	Pass
		5260	1	18.926	/	Pass
		5300	1	18.910	/	Pass
		5320	1	18.940	/	Pass
		5500	1	18.839	/	Pass
		5580	1	18.843	/	Pass
		5700	1	18.900	/	Pass
		5745	1	18.780	/	Pass
		5785	1	18.874	/	Pass
		5825	1	18.888	/	Pass
802.11n (HT40)	SISO	5190	1	36.947	/	Pass
		5230	1	37.060	/	Pass
		5270	1	37.027	/	Pass
		5310	1	36.875	/	Pass
		5510	1	36.823	/	Pass
		5550	1	36.692	/	Pass
		5670	1	36.718	/	Pass
		5755	1	36.809	/	Pass
		5795	1	37.001	/	Pass
802.11ac (VHT80)	SISO	5210	1	75.463	/	Pass
		5290	1	75.844	/	Pass
		5530	1	75.144	/	Pass



Compliance Certification Services (Kunshan) Inc.

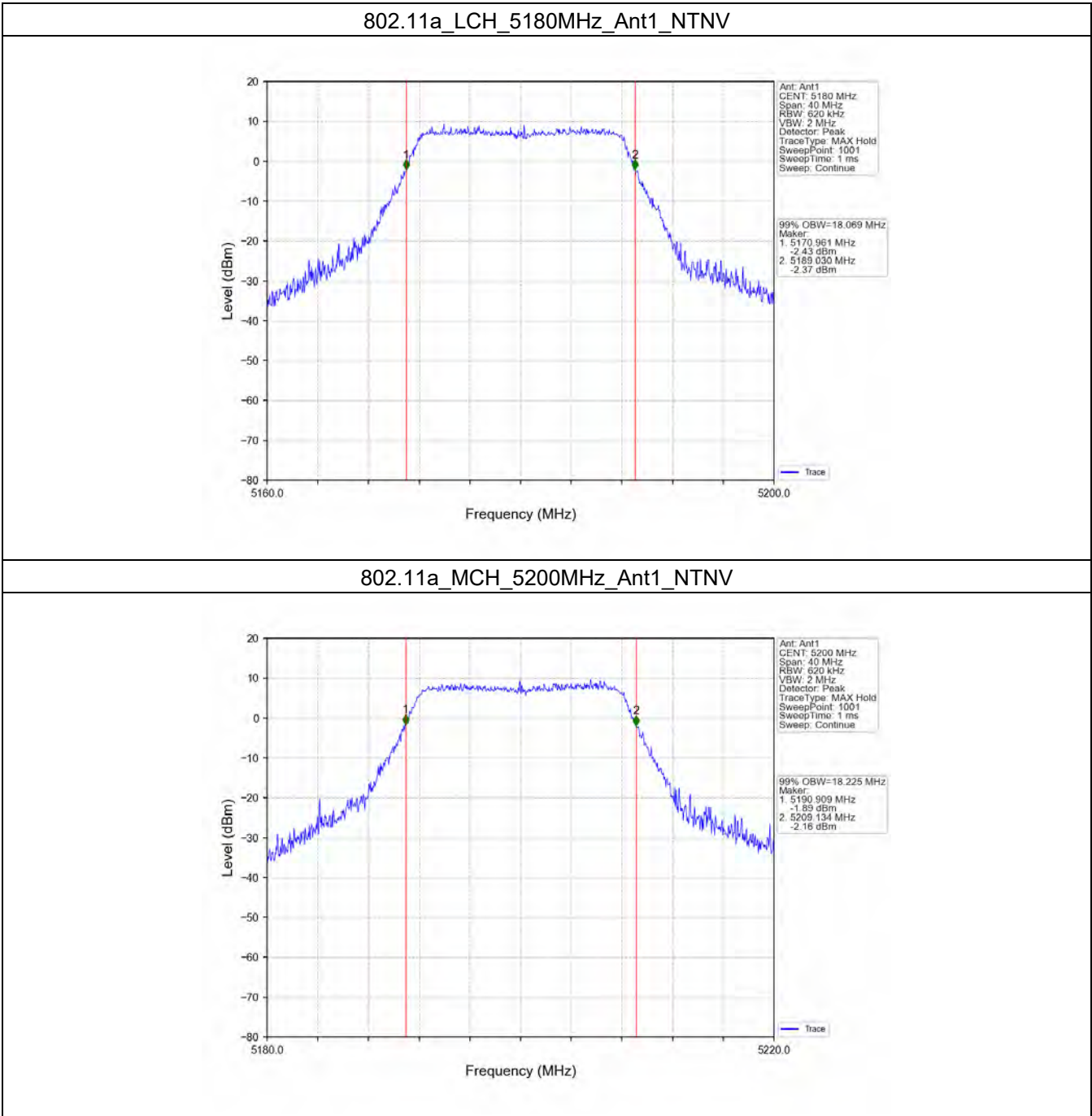
CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 195 of 315

		5610	1	75.362	/	Pass
		5775	1	75.485	/	Pass

2.1.2 Test Graph



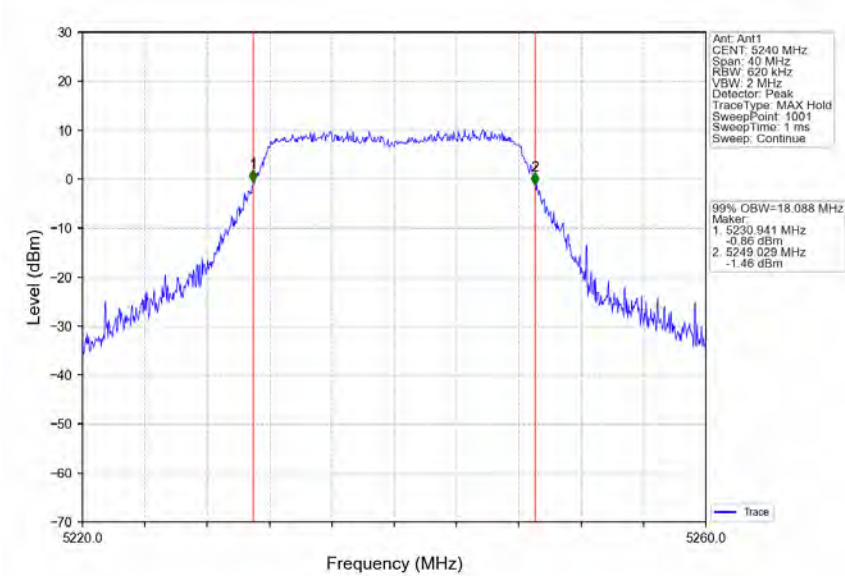
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

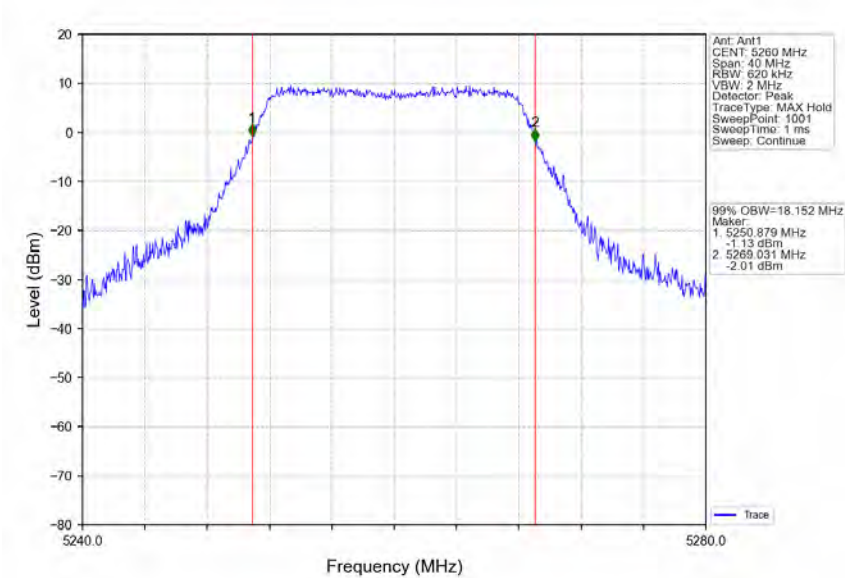
Report No.: KSCR231100205204

Page: 197 of 315

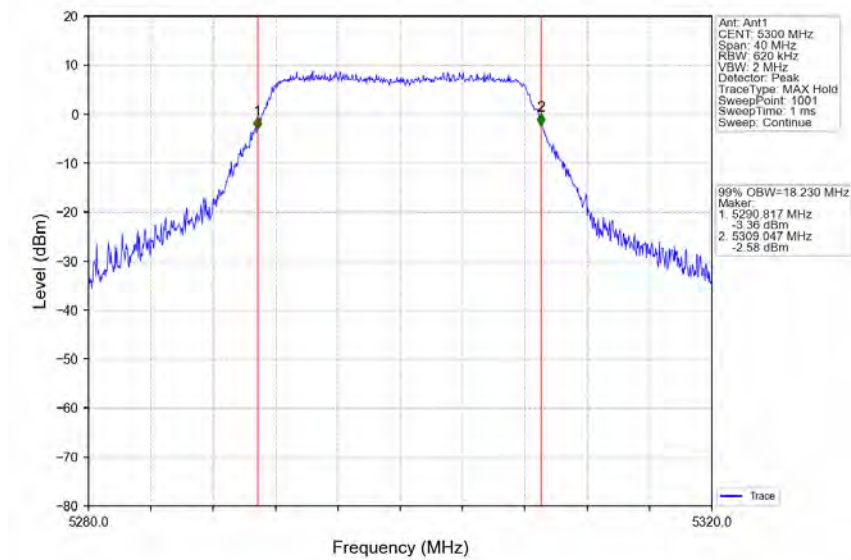
802.11a_HCH_5240MHz_Ant1_NTNV



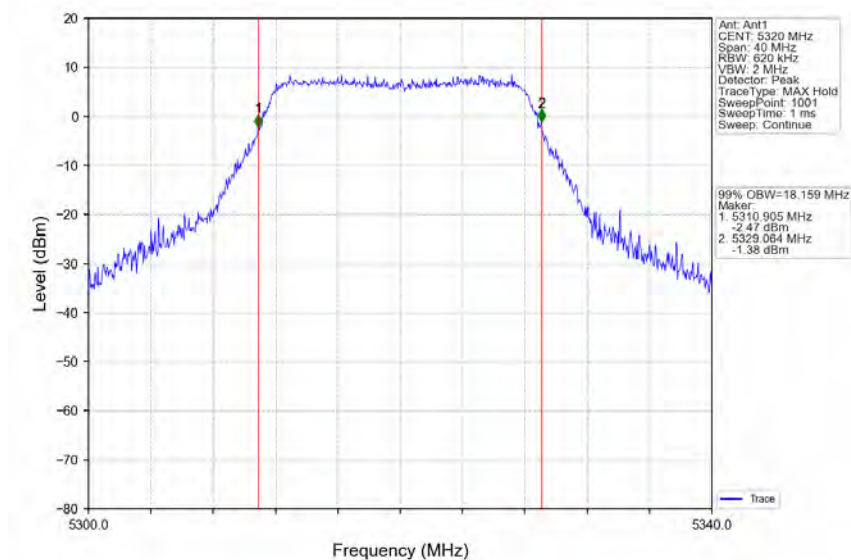
802.11a_LCH_5260MHz_Ant1_NTNV



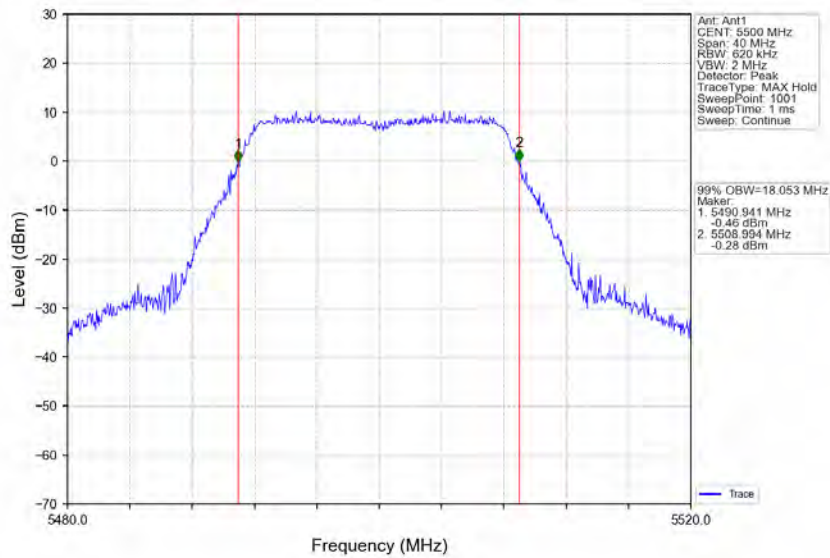
802.11a_MCH_5300MHz_Ant1_NTNV



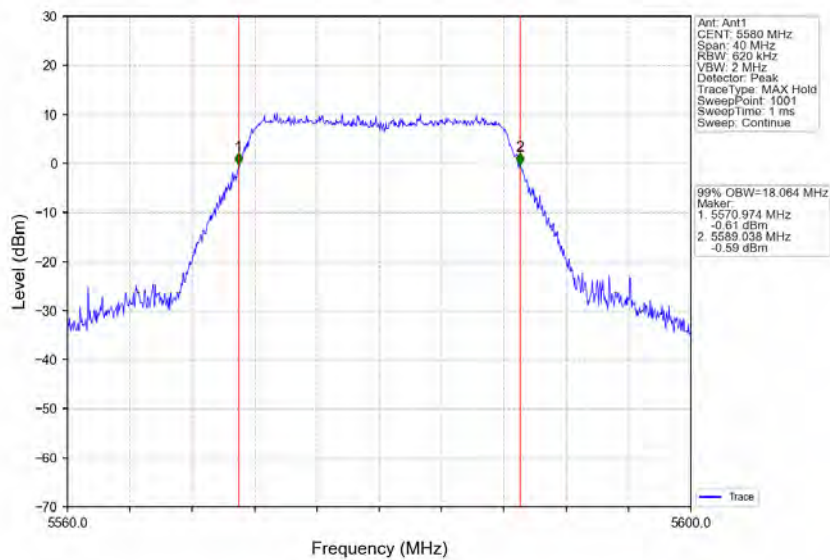
802.11a_HCH_5320MHz_Ant1_NTNV



802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



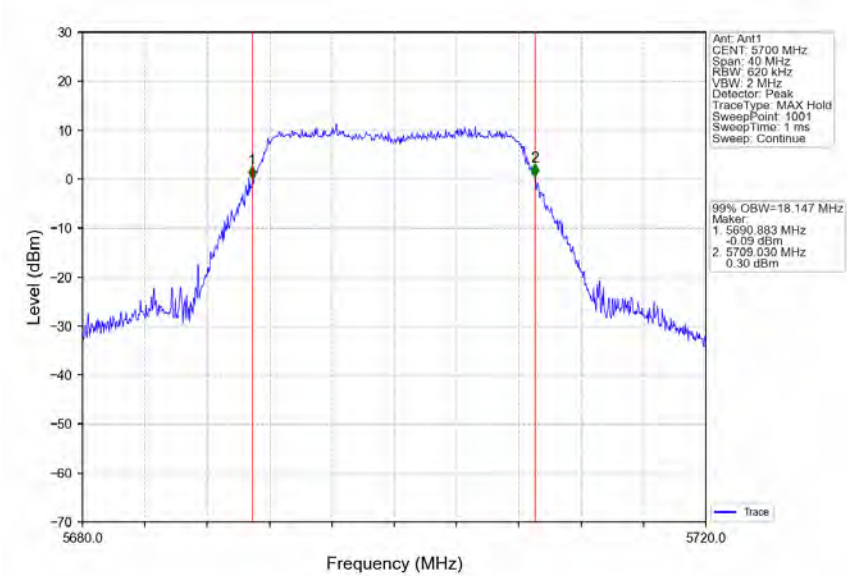
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

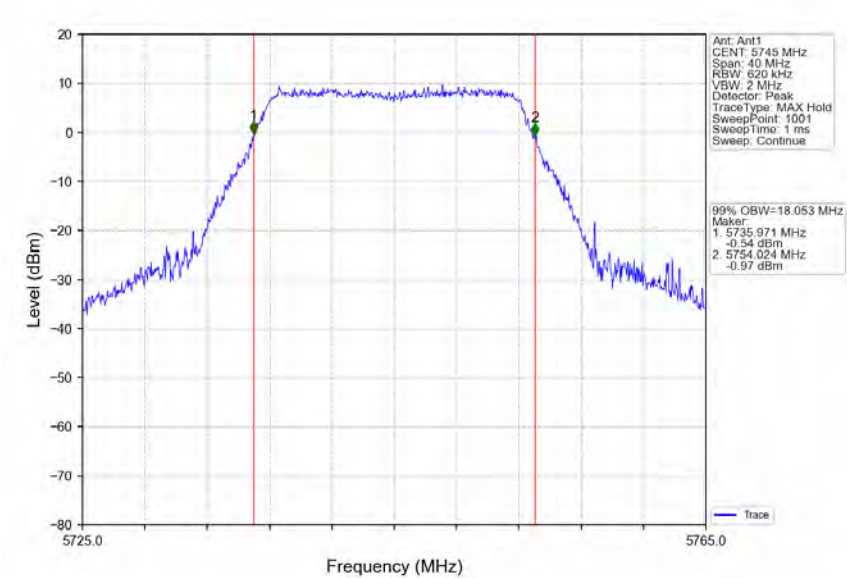
Report No.: KSCR231100205204

Page: 200 of 315

802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



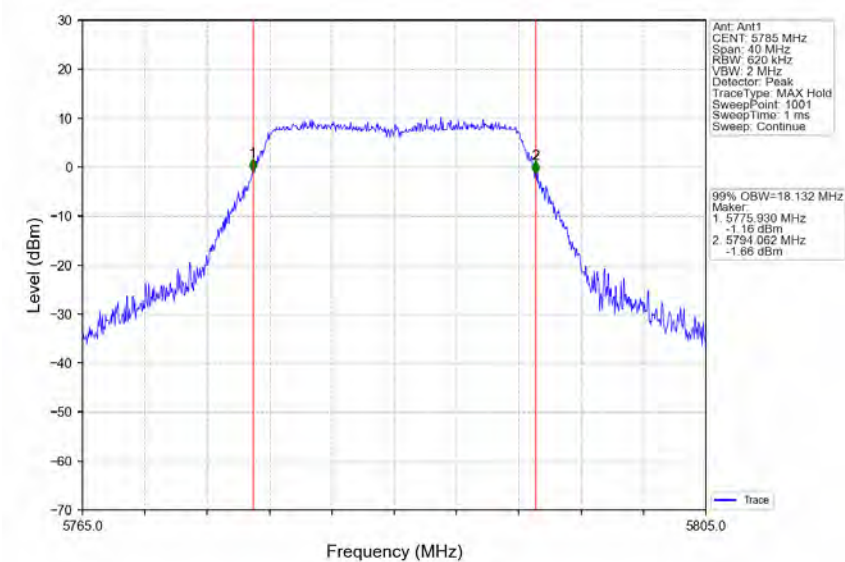
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

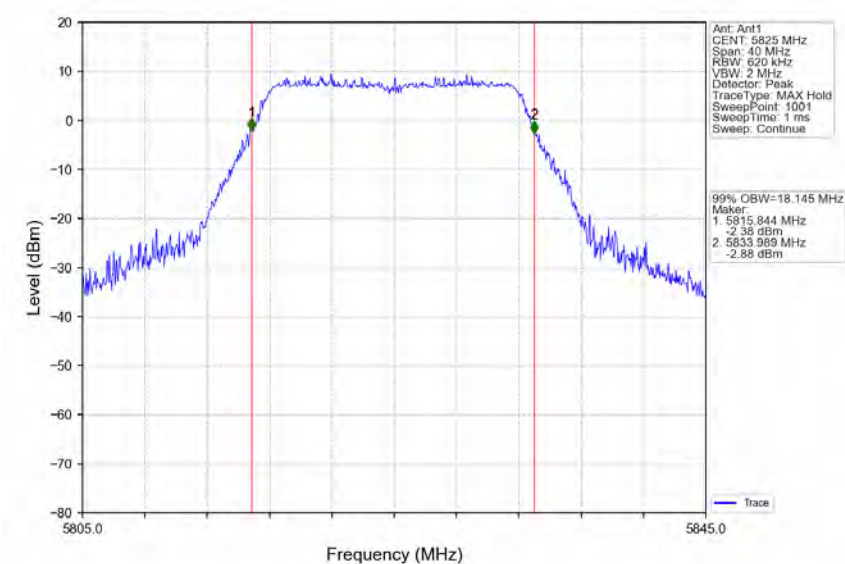
Report No.: KSCR231100205204

Page: 201 of 315

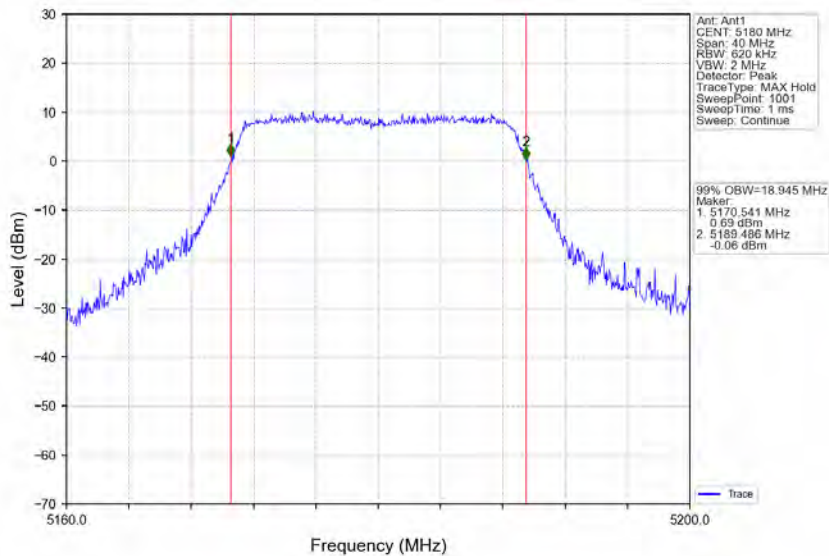
802.11a_MCH_5785MHz_Ant1_NTNV



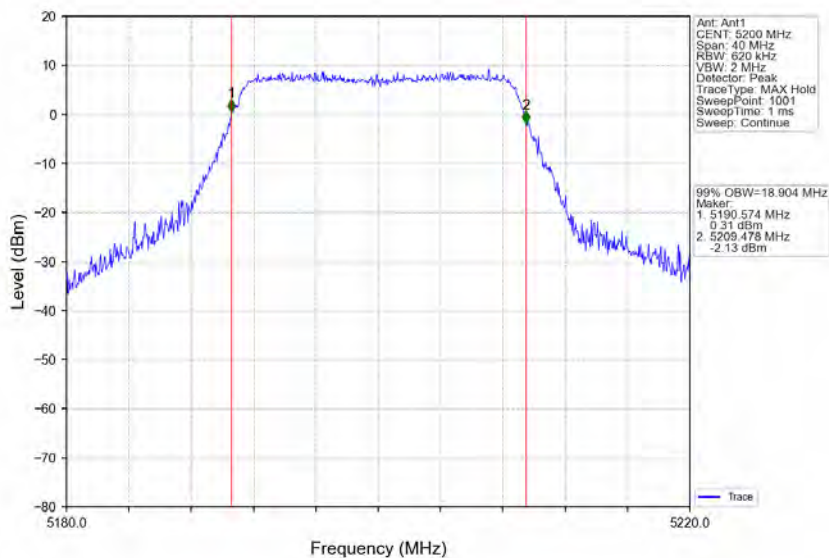
802.11a_HCH_5825MHz_Ant1_NTNV



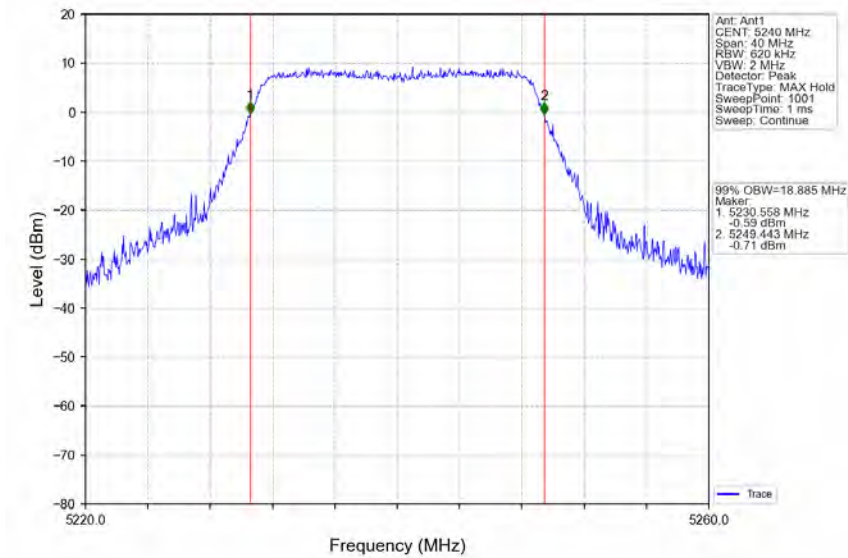
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



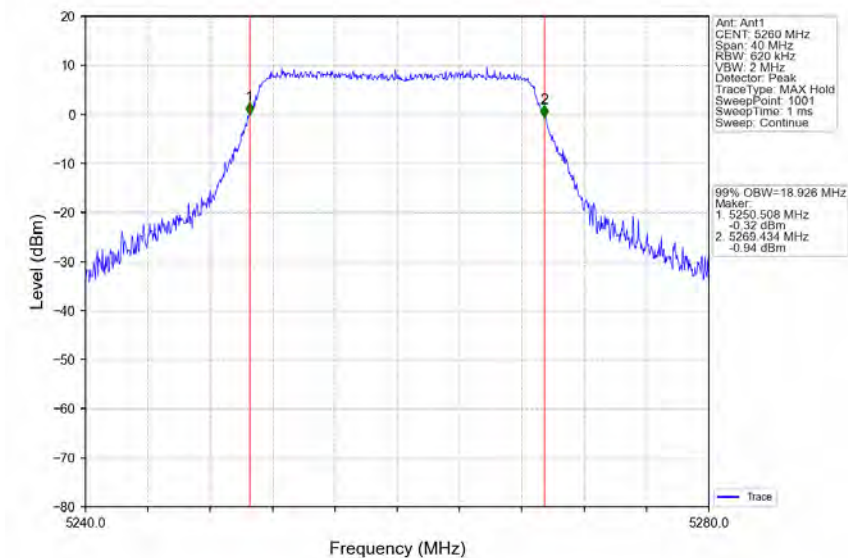
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



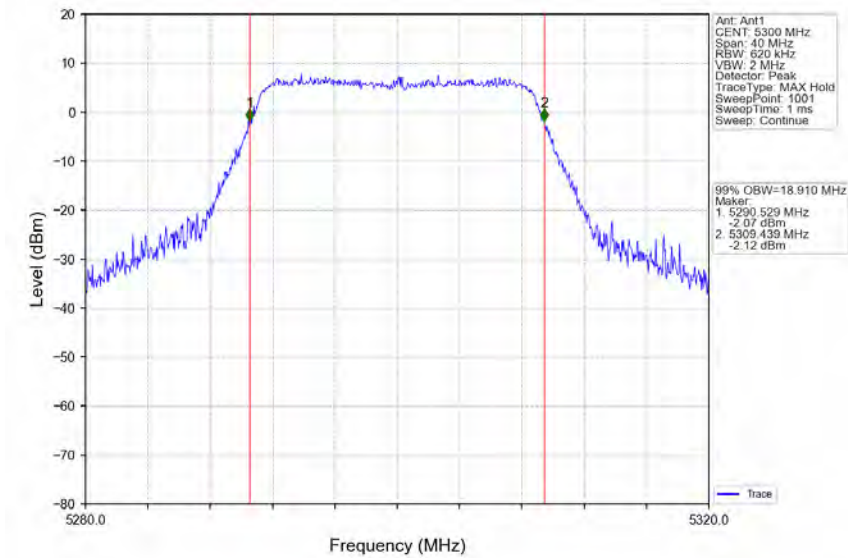
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



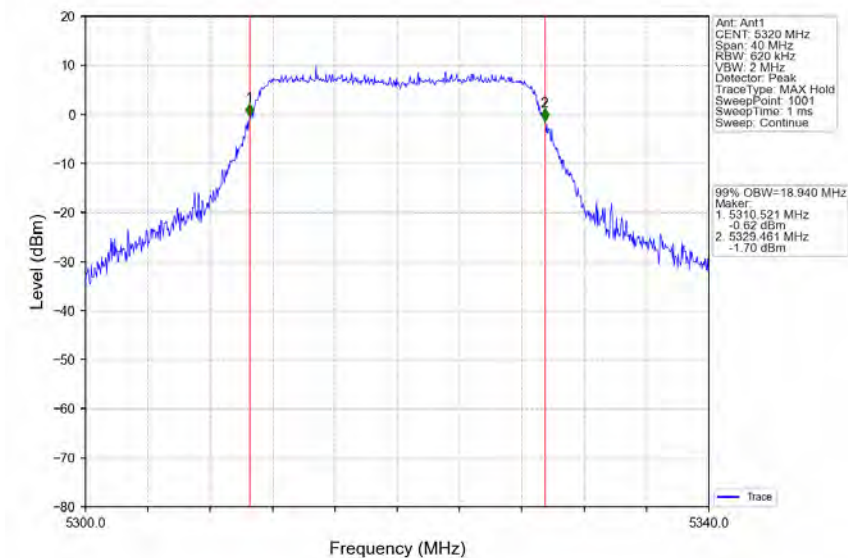
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



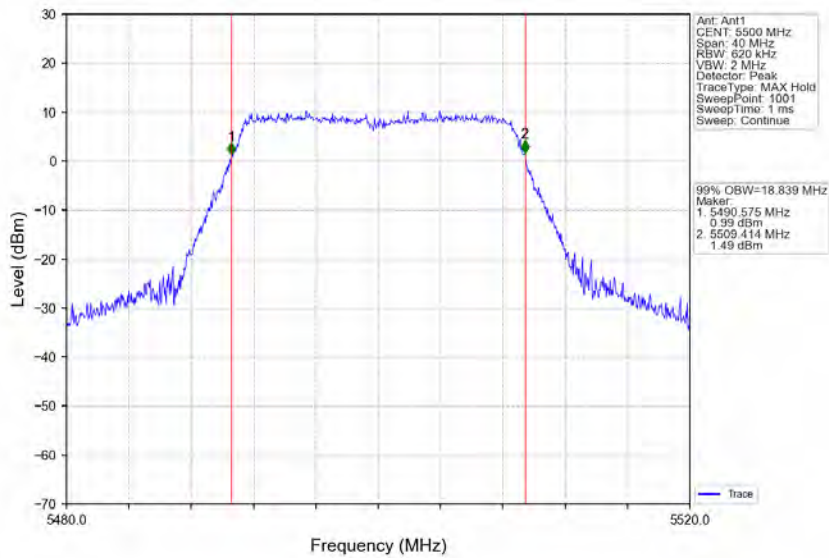
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



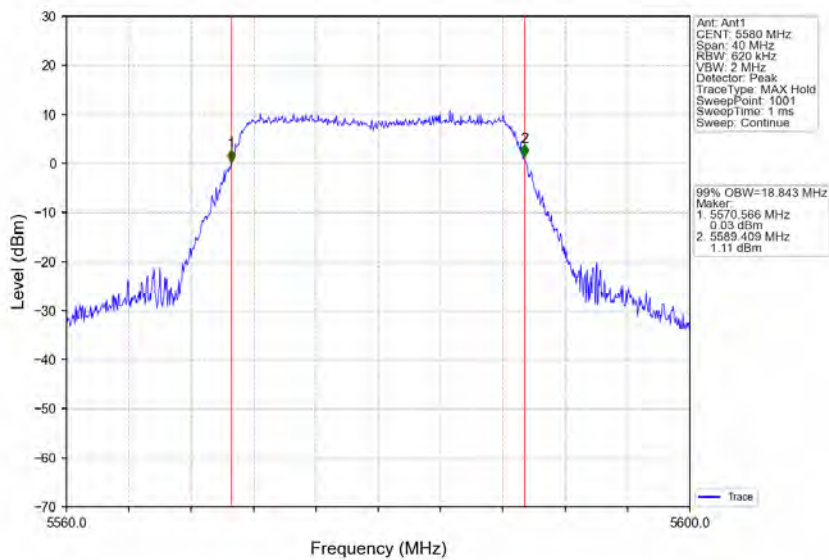
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



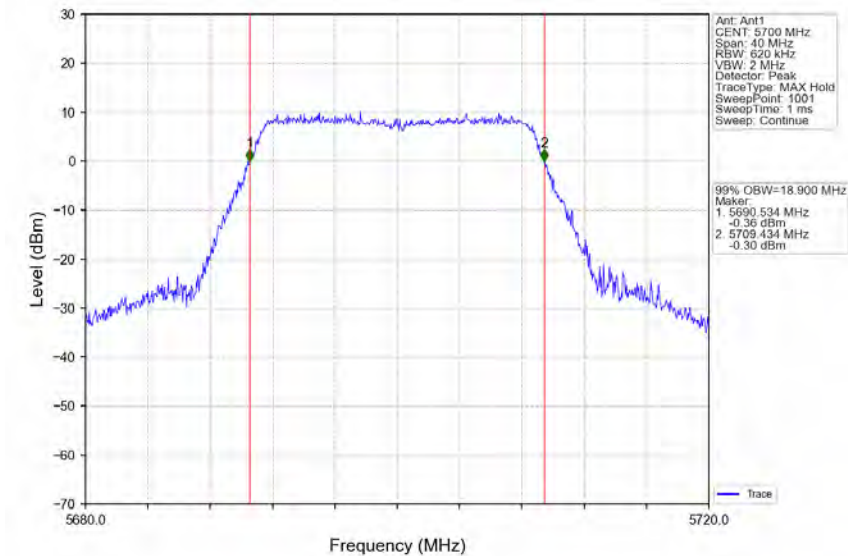
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



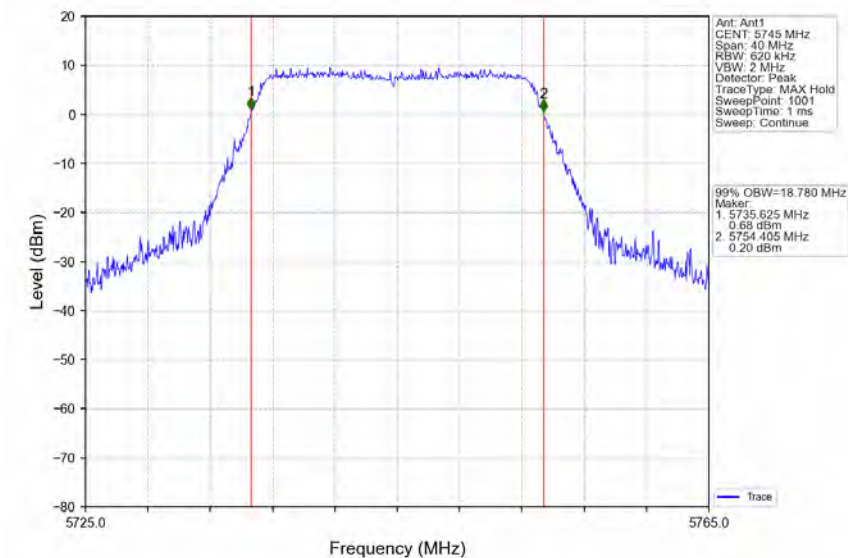
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



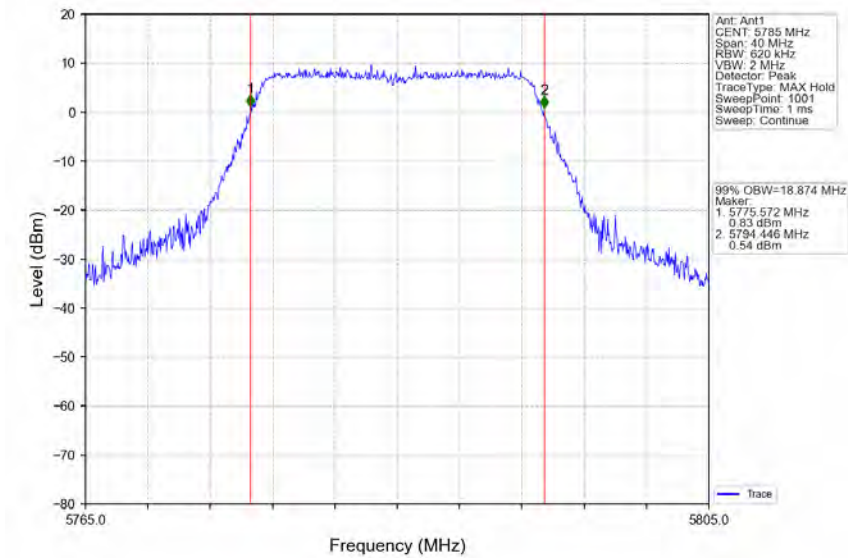
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

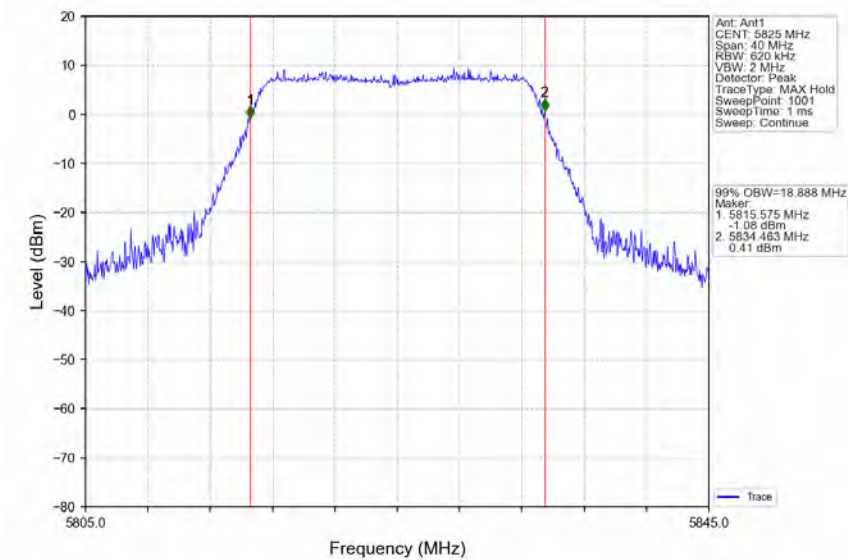
Report No.: KSCR231100205204

Page: 207 of 315

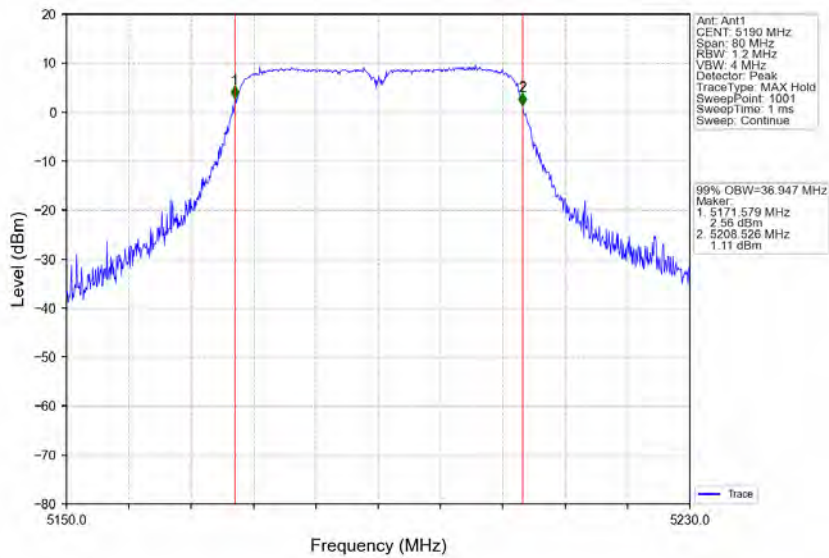
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



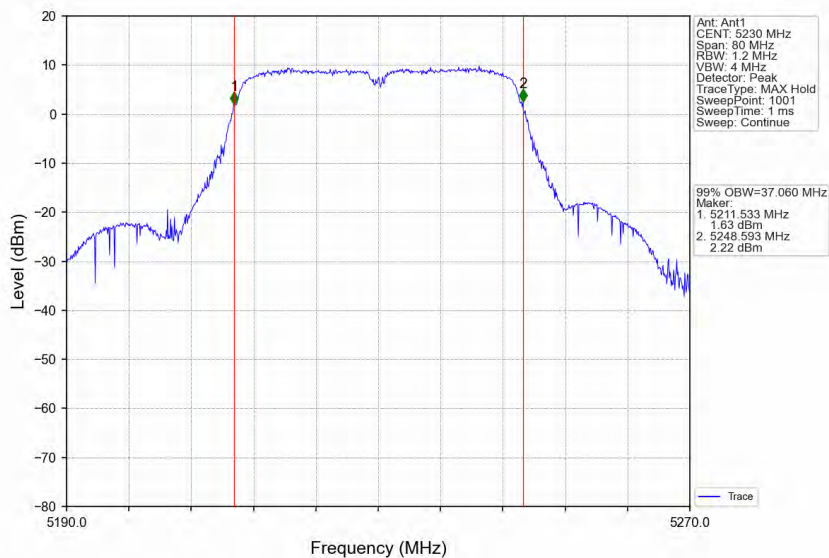
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



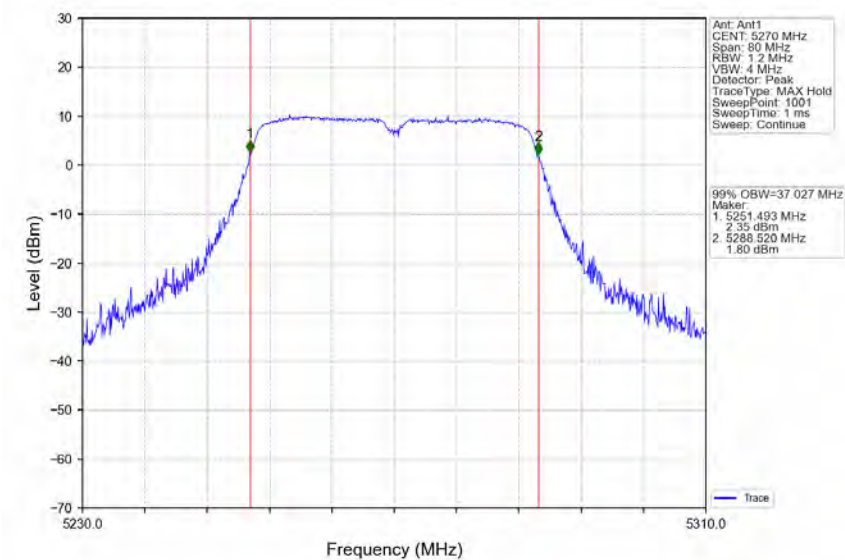
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



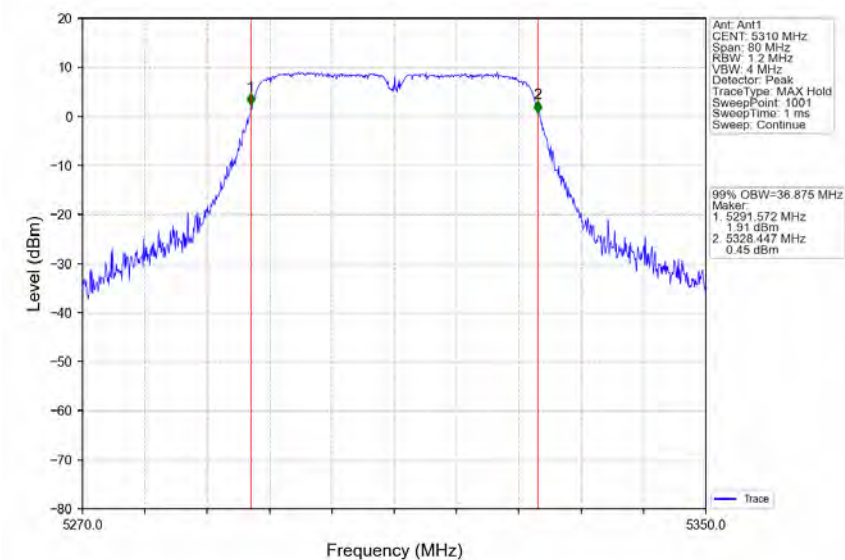
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



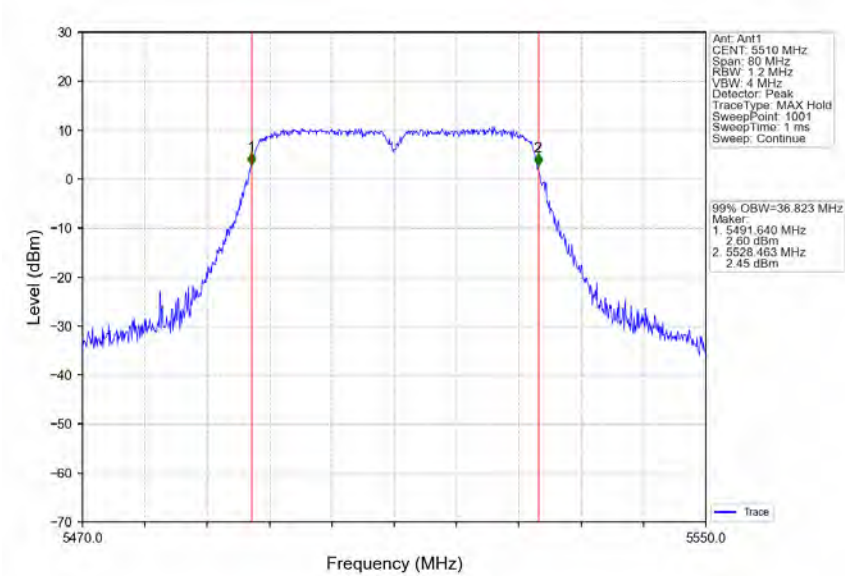
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



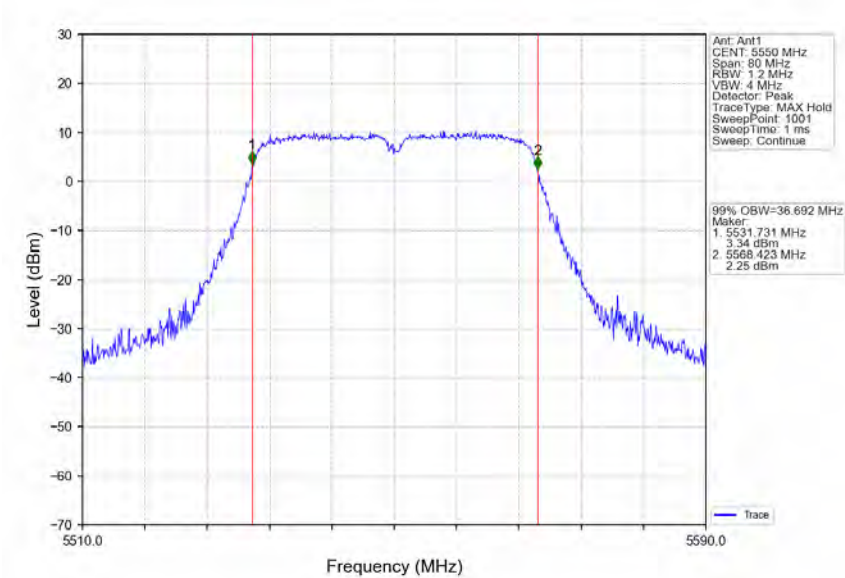
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



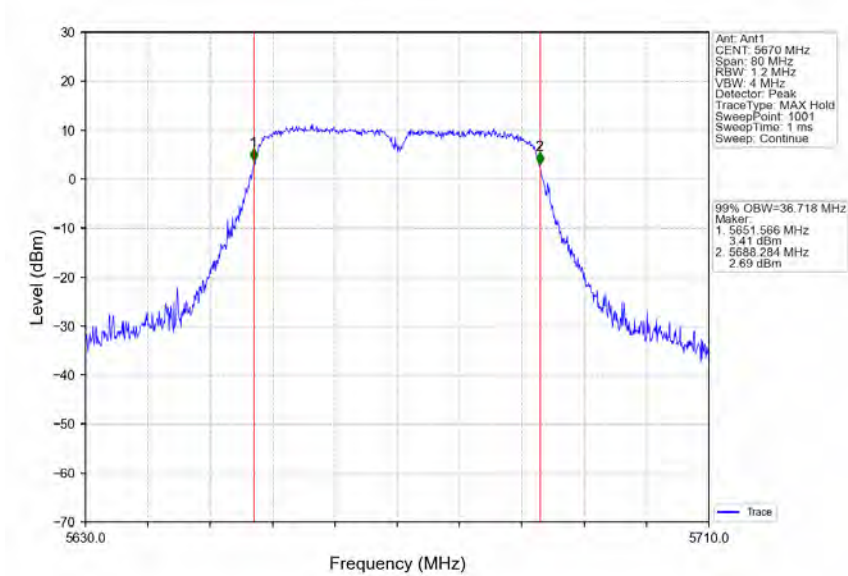
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



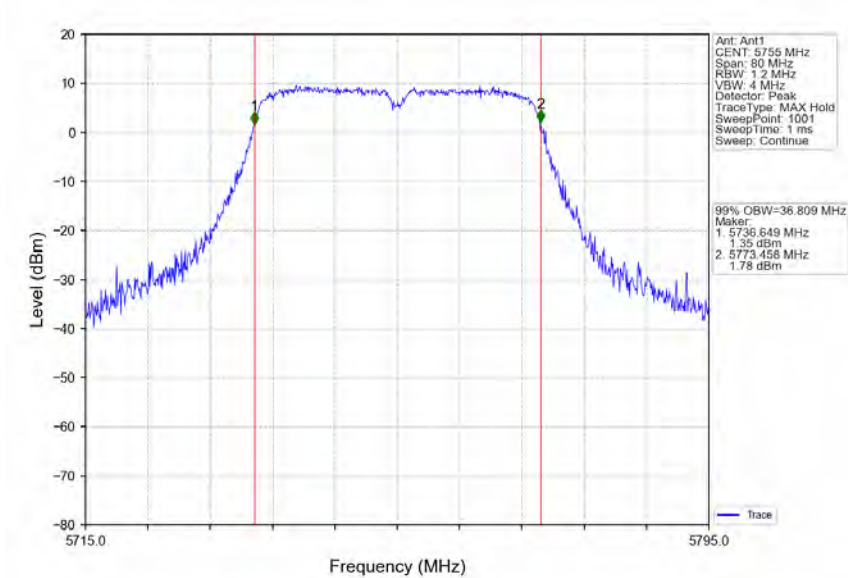
802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



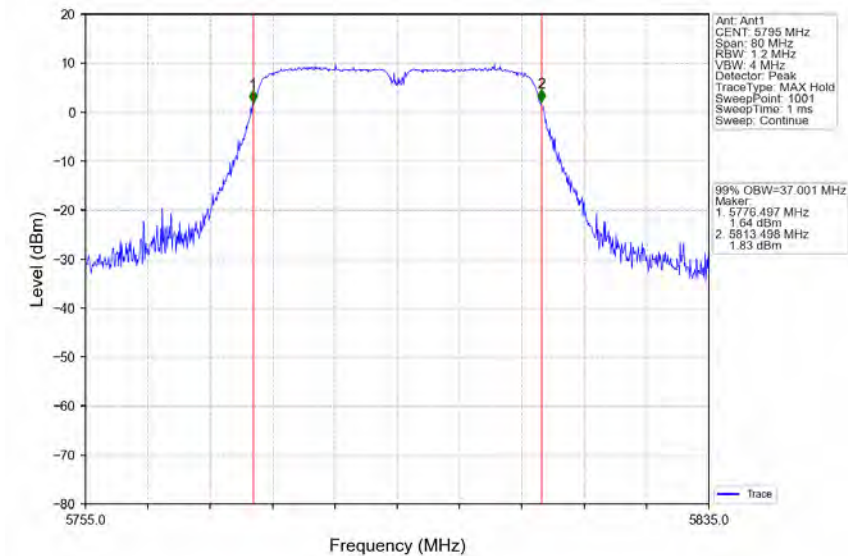
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



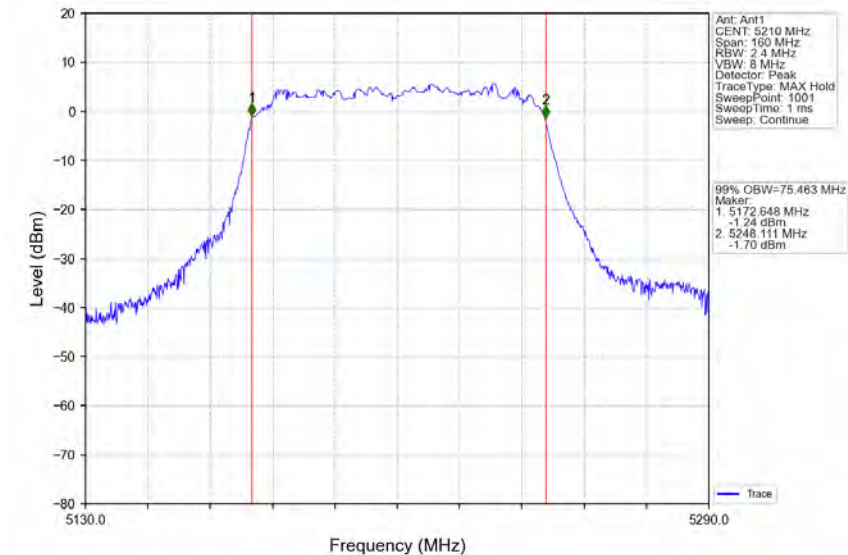
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



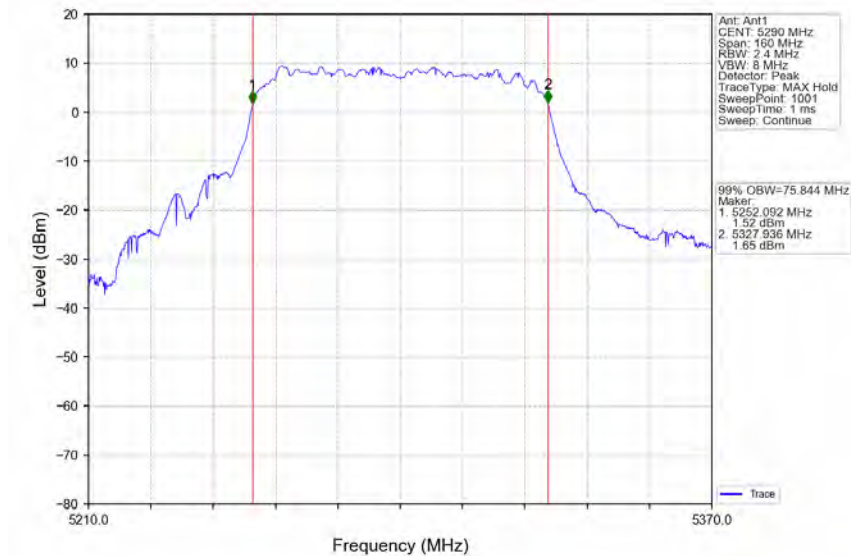
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



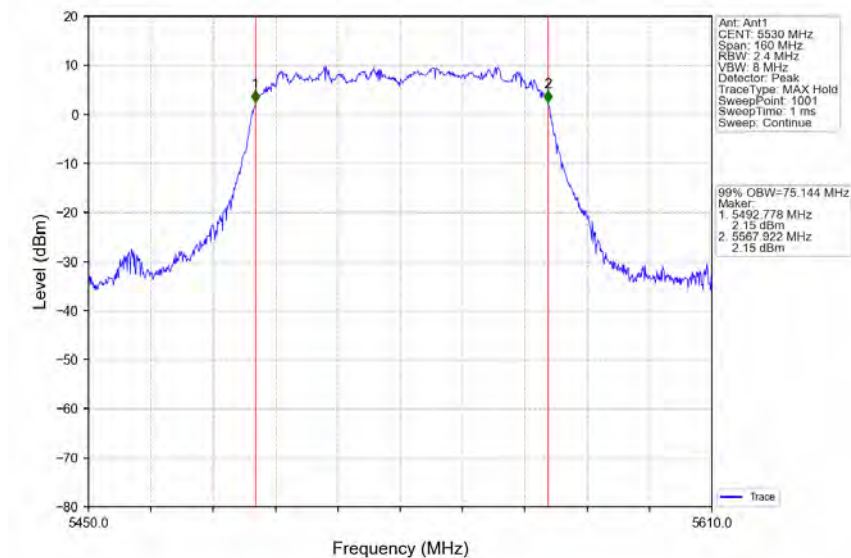
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



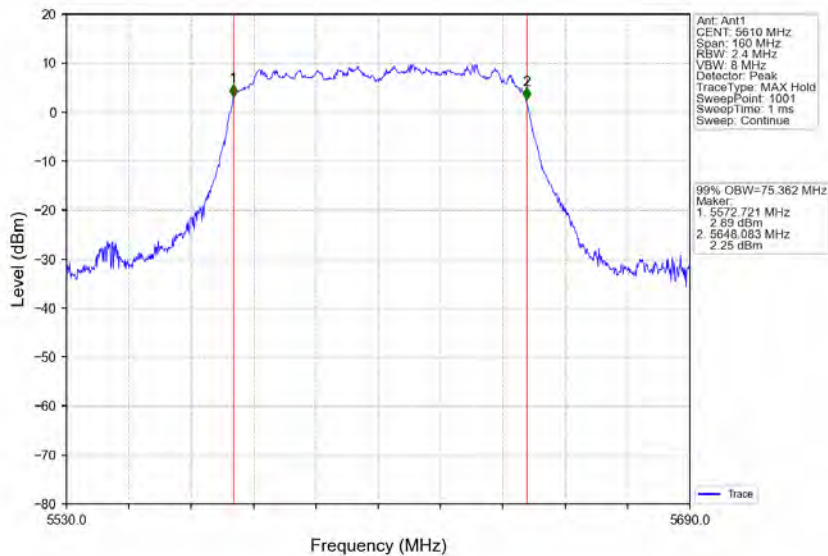
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



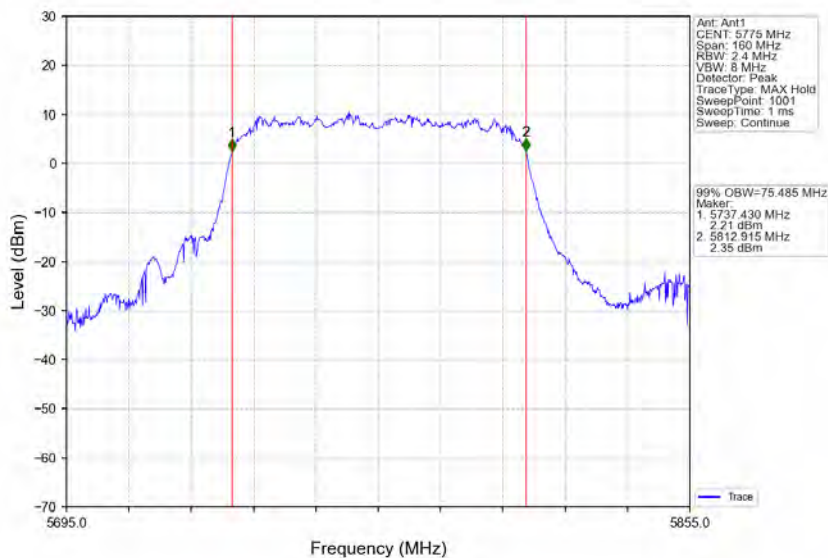
802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

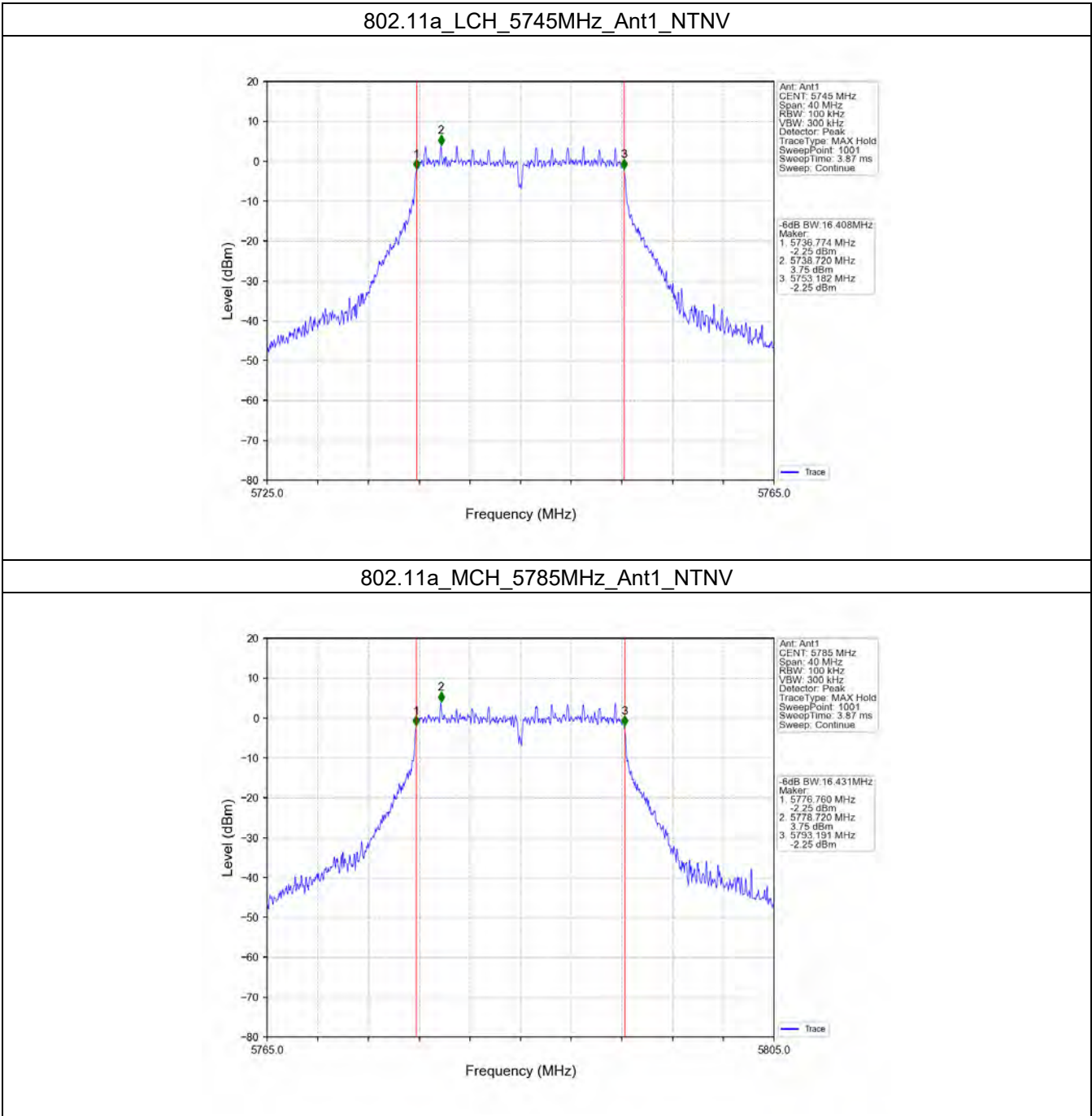
Page: 215 of 315

2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.408	≥ 0.5	Pass
		5785	1	16.431	≥ 0.5	Pass
		5825	1	16.444	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.632	≥ 0.5	Pass
		5785	1	17.618	≥ 0.5	Pass
		5825	1	17.676	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.200	≥ 0.5	Pass
		5795	1	35.219	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.121	≥ 0.5	Pass

2.2.2 Test Graph



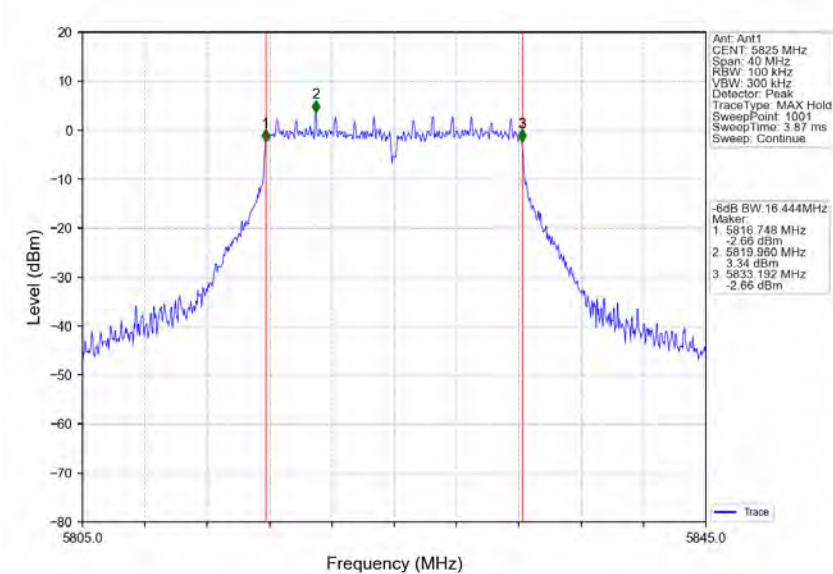
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

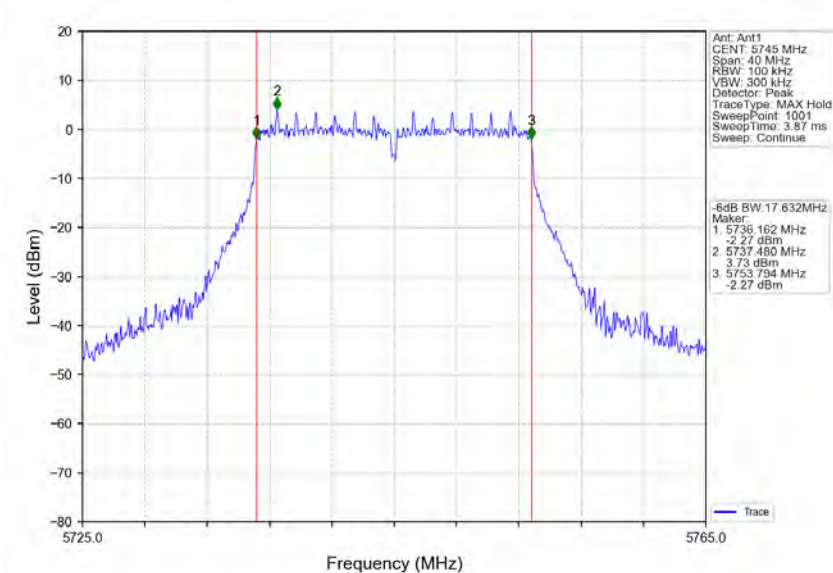
Report No.: KSCR231100205204

Page: 217 of 315

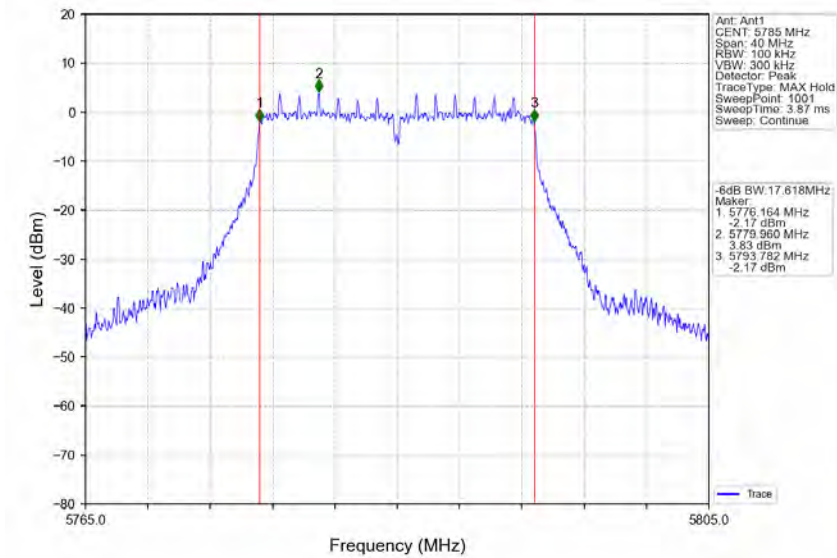
802.11a_HCH_5825MHz_Ant1_NTNV



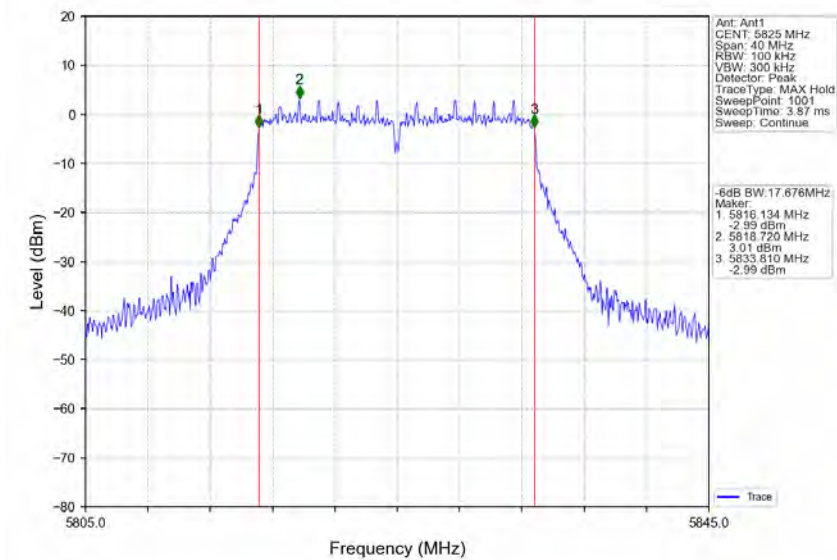
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



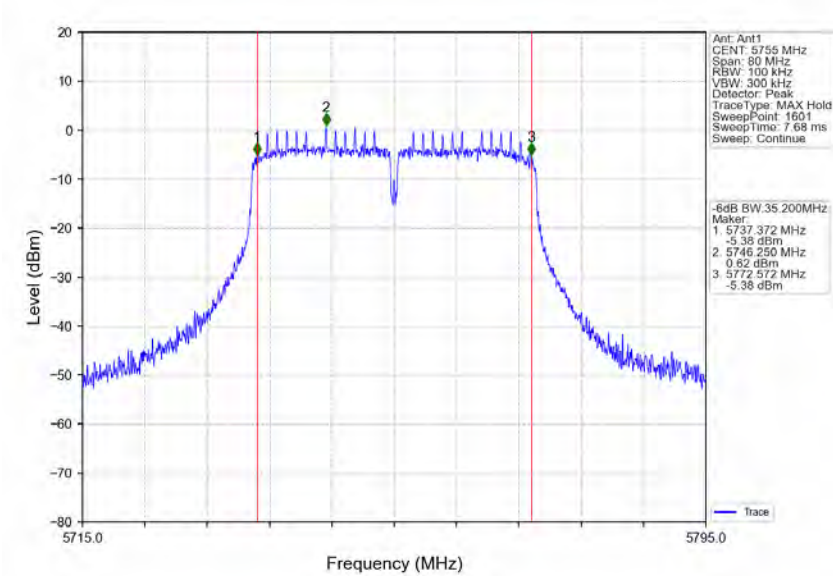
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



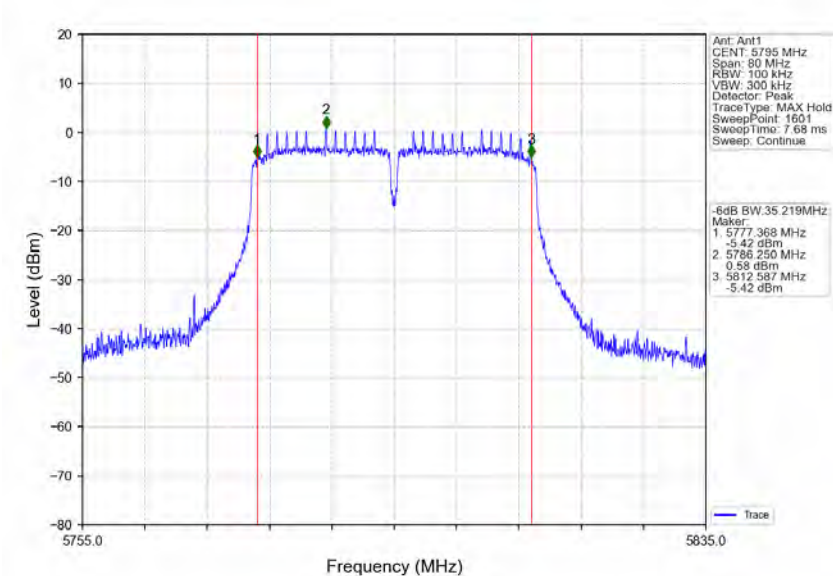
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



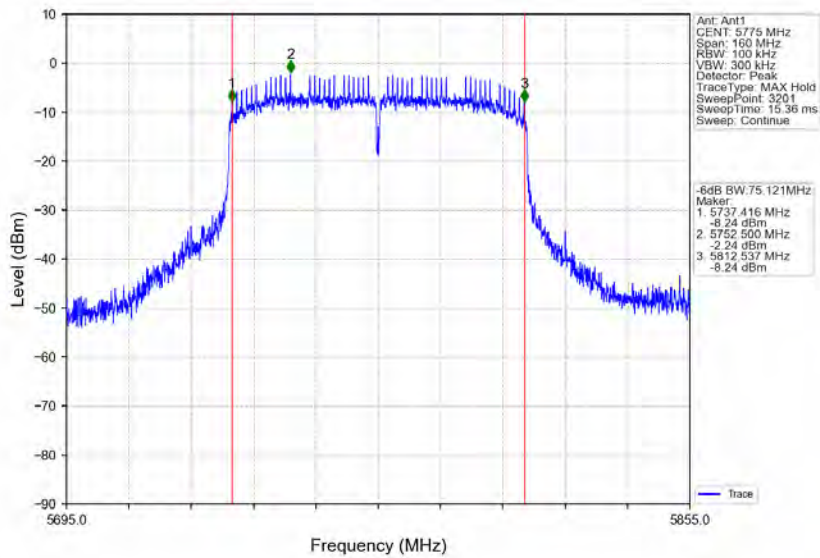
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 220 of 315

802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV

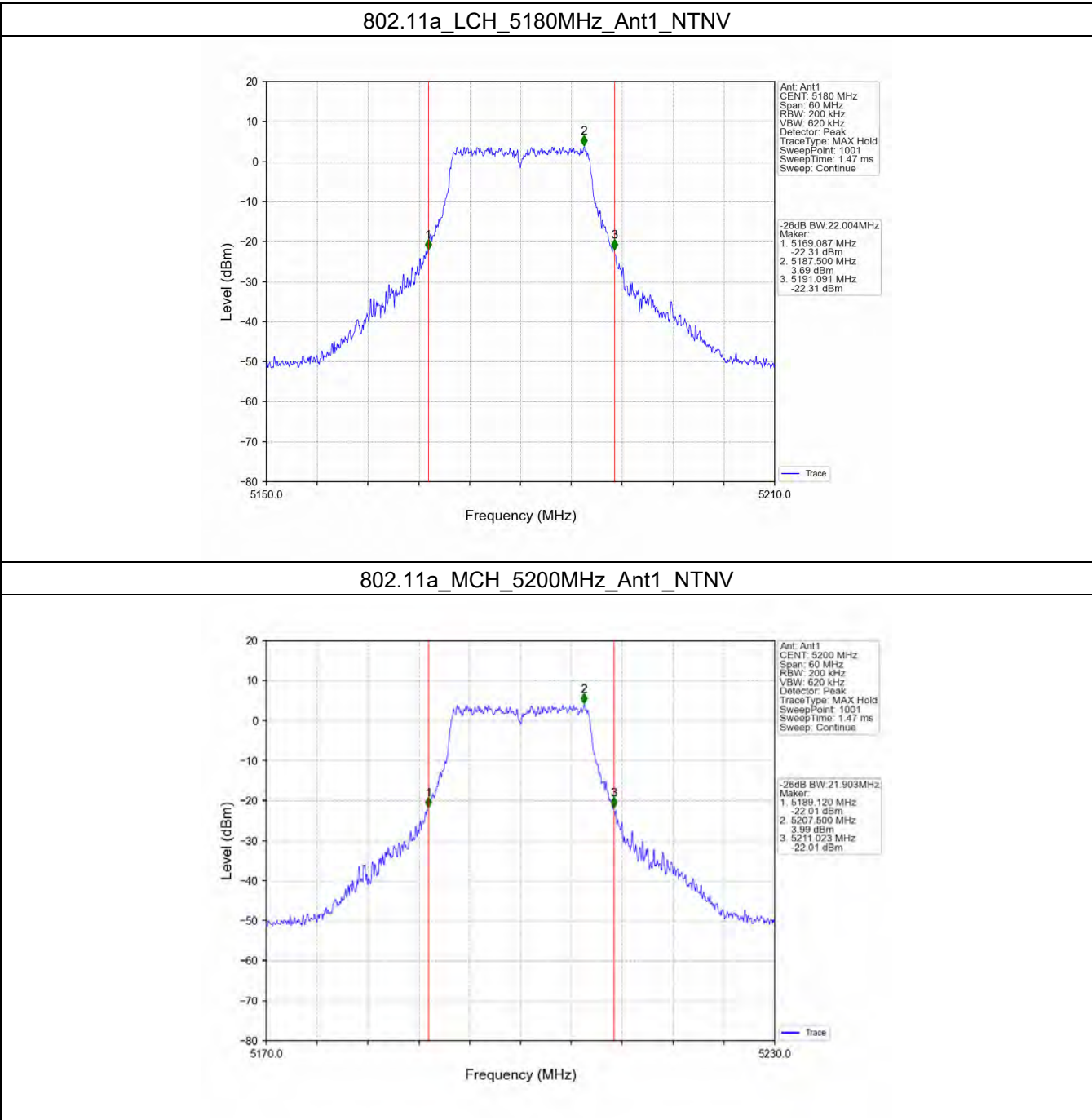


2.3 26dB BW

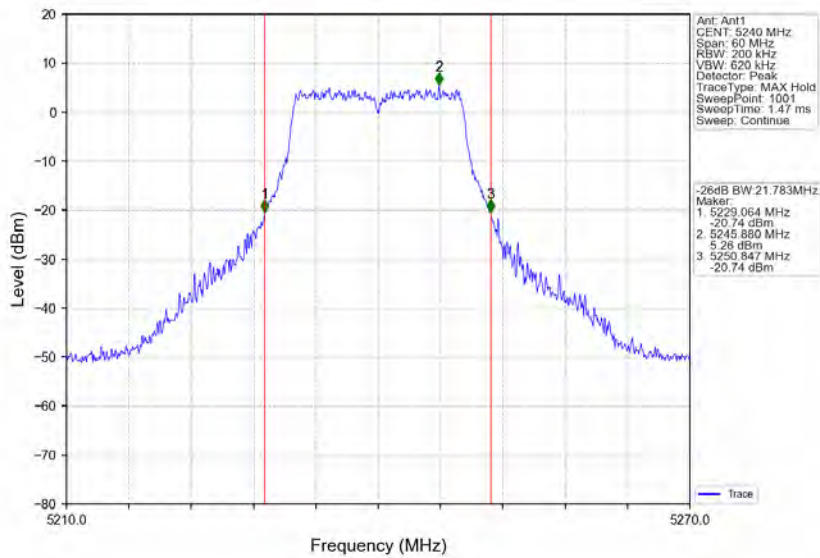
2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	22.004	/	Pass
		5200	1	21.903	/	Pass
		5240	1	21.783	/	Pass
		5260	1	21.889	/	Pass
		5300	1	22.153	/	Pass
		5320	1	22.499	/	Pass
		5500	1	21.968	/	Pass
		5580	1	21.439	/	Pass
		5700	1	21.612	/	Pass
802.11n (HT20)	SISO	5180	1	22.428	/	Pass
		5200	1	22.383	/	Pass
		5240	1	22.311	/	Pass
		5260	1	22.173	/	Pass
		5300	1	22.003	/	Pass
		5320	1	23.333	/	Pass
		5500	1	22.068	/	Pass
		5580	1	21.839	/	Pass
		5700	1	22.111	/	Pass
802.11n (HT40)	SISO	5190	1	44.356	/	Pass
		5230	1	43.092	/	Pass
		5270	1	42.615	/	Pass
		5310	1	43.042	/	Pass
		5510	1	42.899	/	Pass
		5550	1	43.659	/	Pass
		5670	1	42.084	/	Pass
802.11ac (VHT80)	SISO	5210	1	83.660	/	Pass
		5290	1	93.019	/	Pass
		5530	1	83.194	/	Pass
		5610	1	83.851	/	Pass

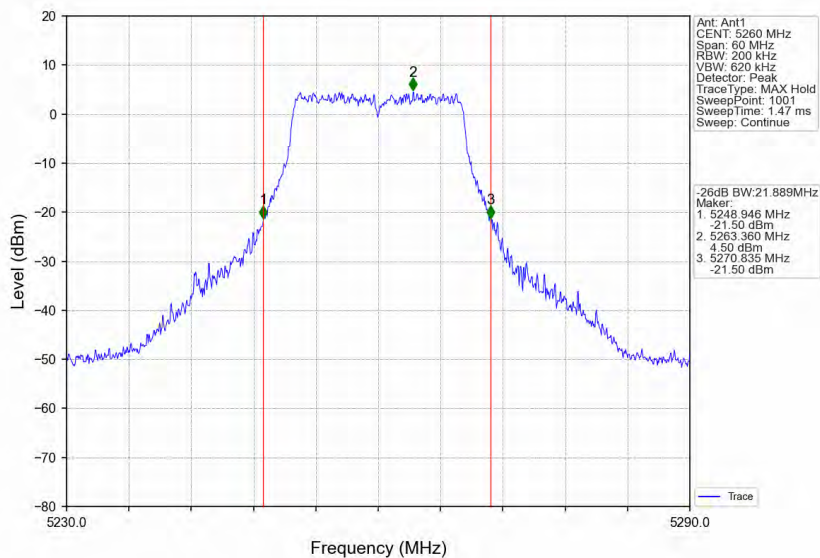
2.3.2 Test Graph



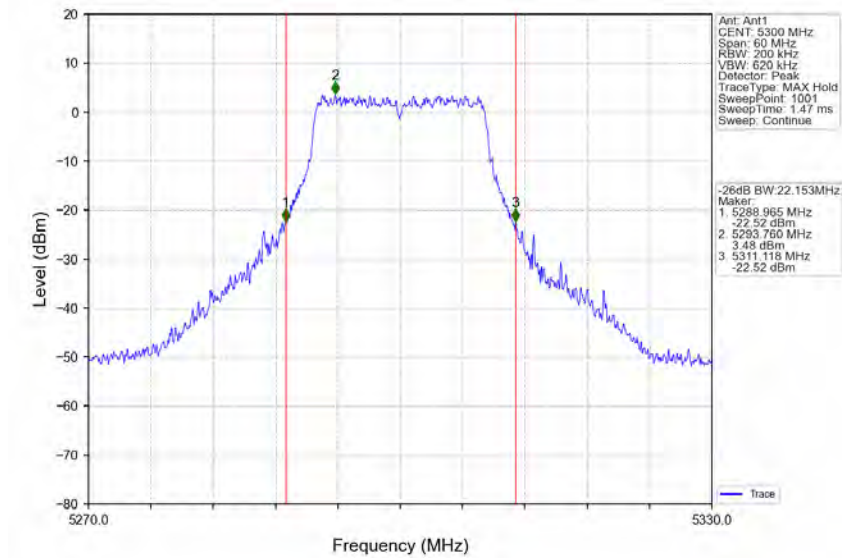
802.11a_HCH_5240MHz_Ant1_NTNV



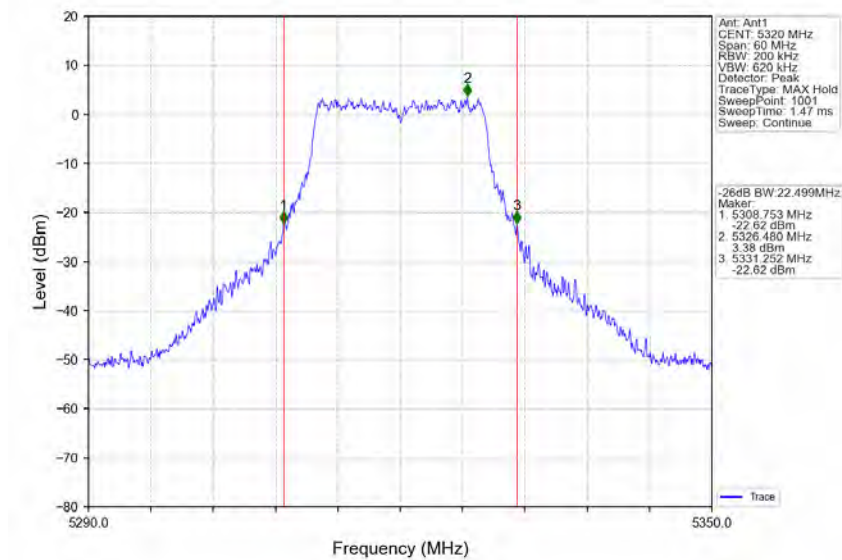
802.11a_LCH_5260MHz_Ant1_NTNV



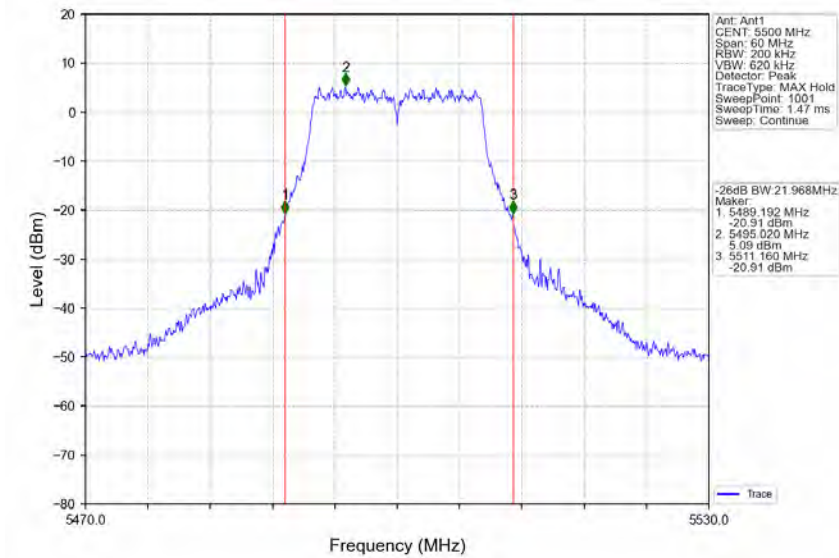
802.11a_MCH_5300MHz_Ant1_NTNV



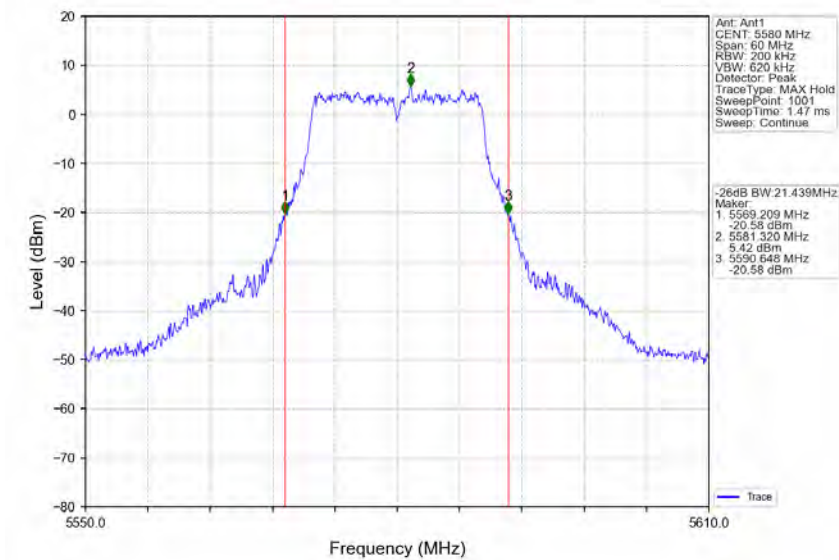
802.11a_HCH_5320MHz_Ant1_NTNV



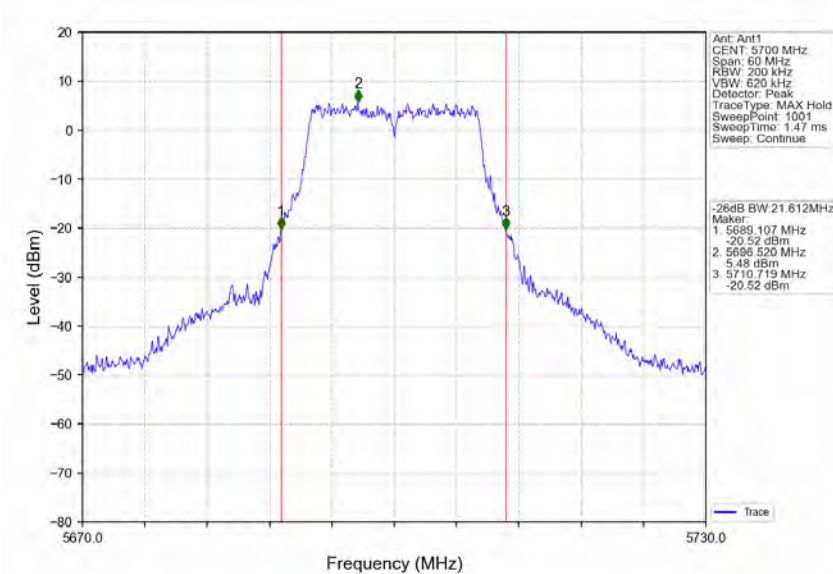
802.11a_LCH_5500MHz_Ant1_NTNV



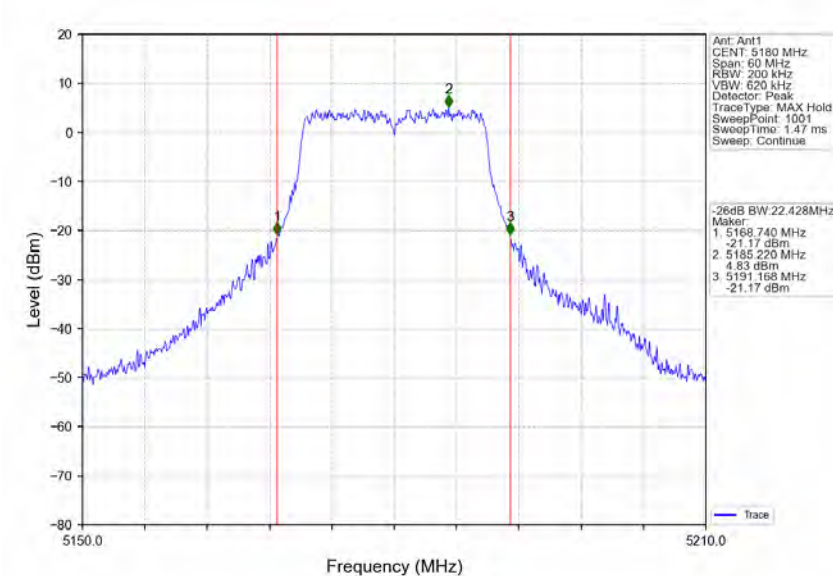
802.11a_MCH_5580MHz_Ant1_NTNV



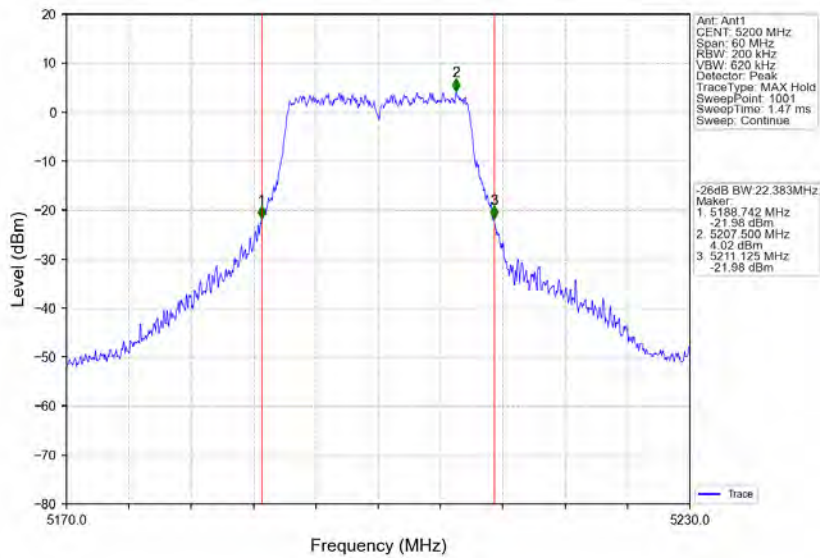
802.11a_HCH_5700MHz_Ant1_NTNV



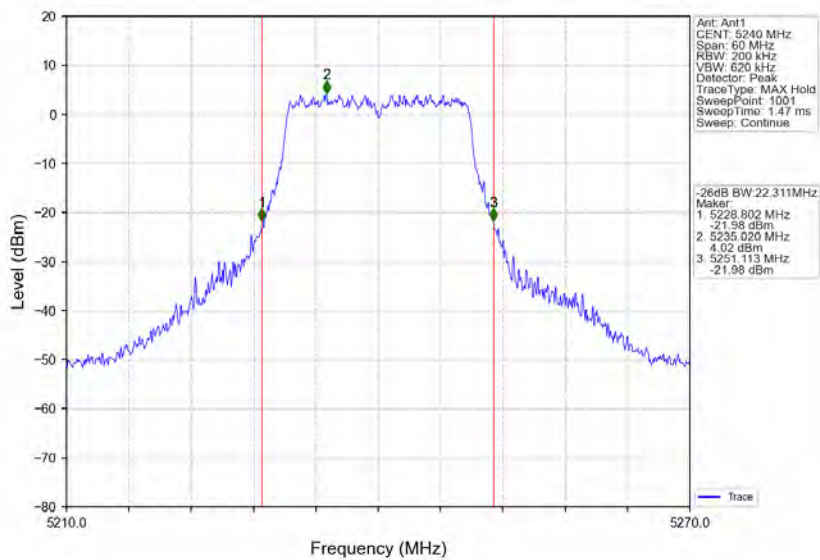
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



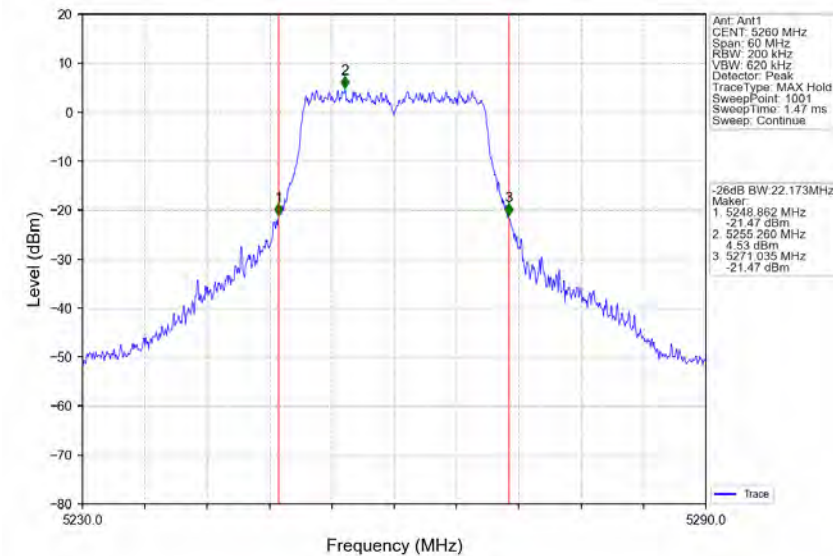
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



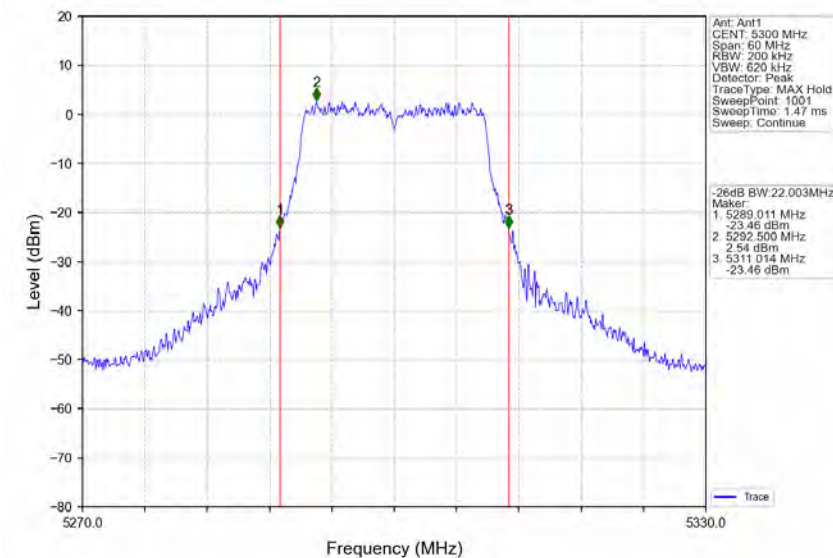
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



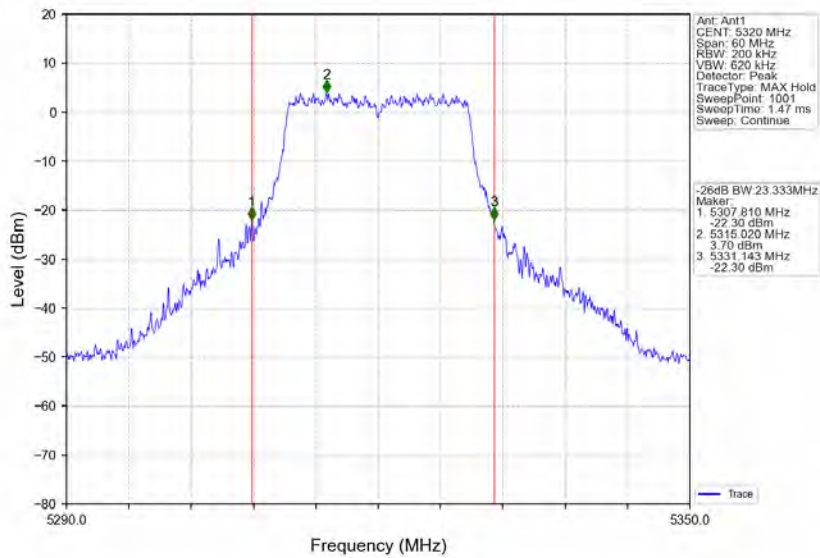
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



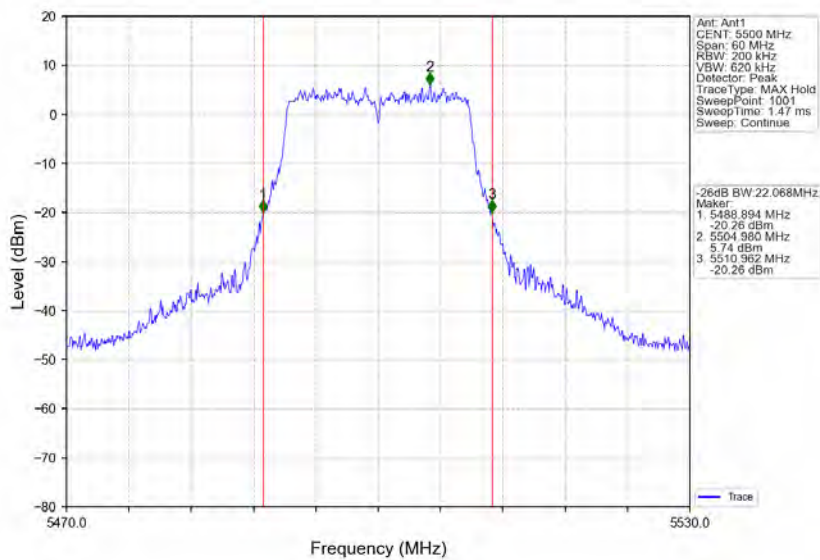
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



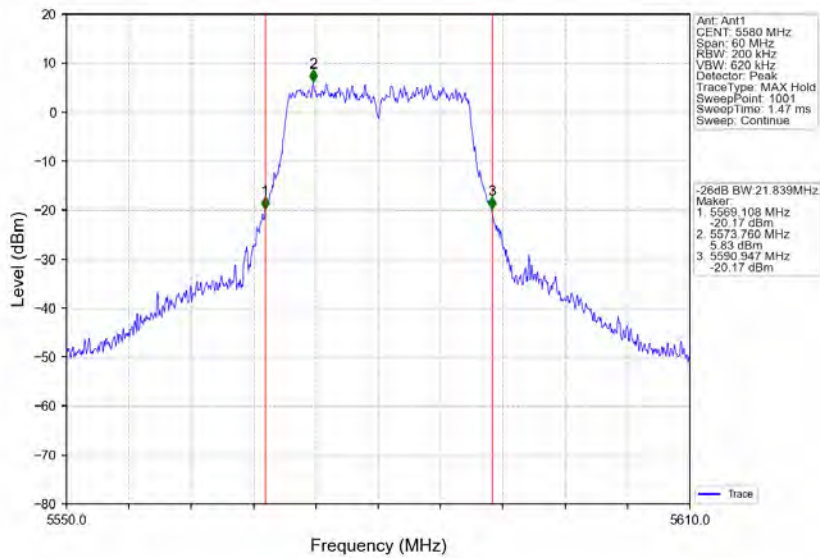
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



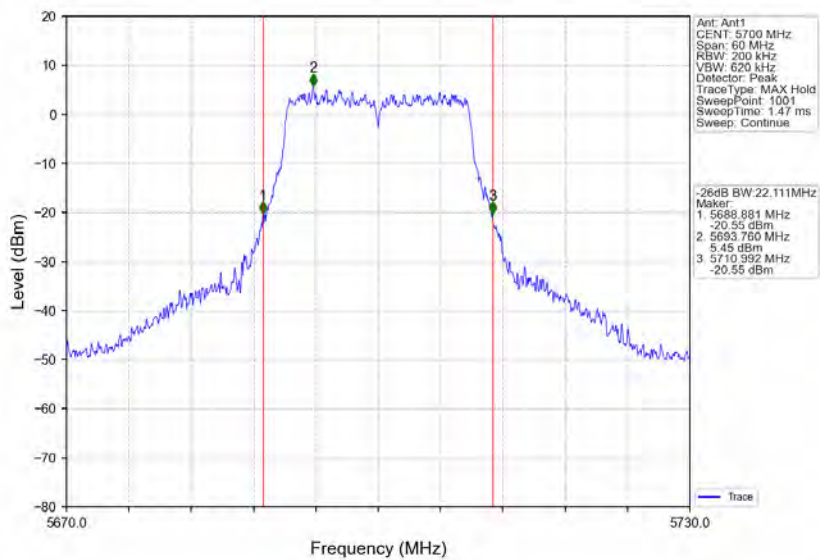
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



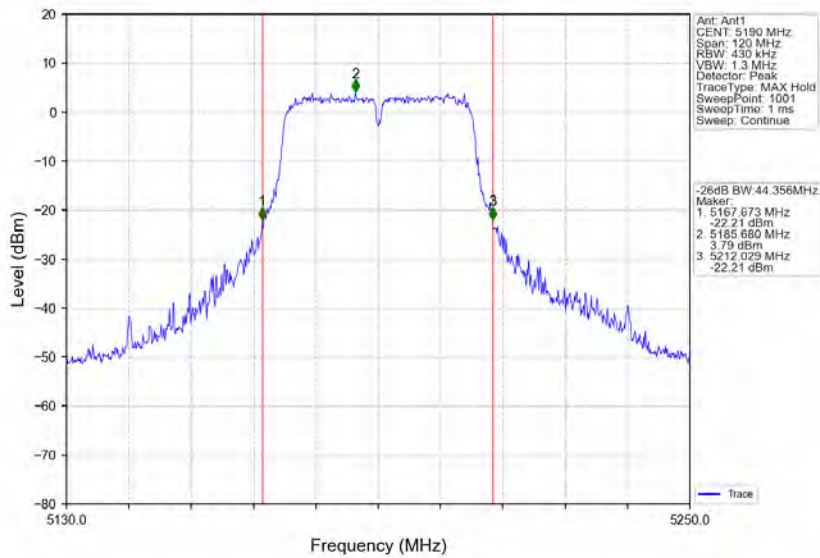
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



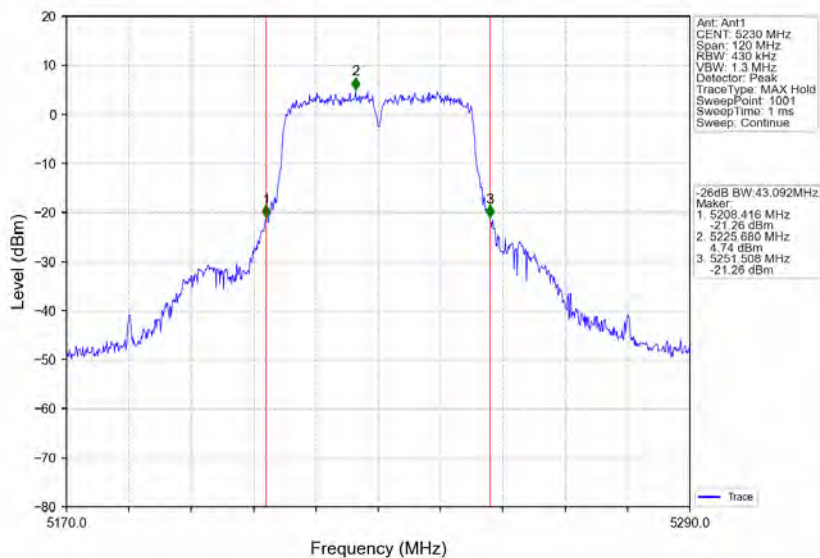
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



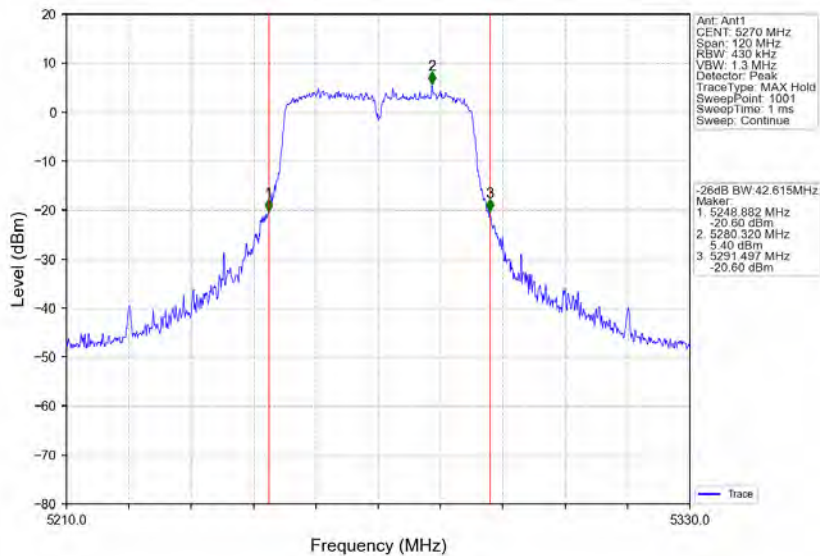
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



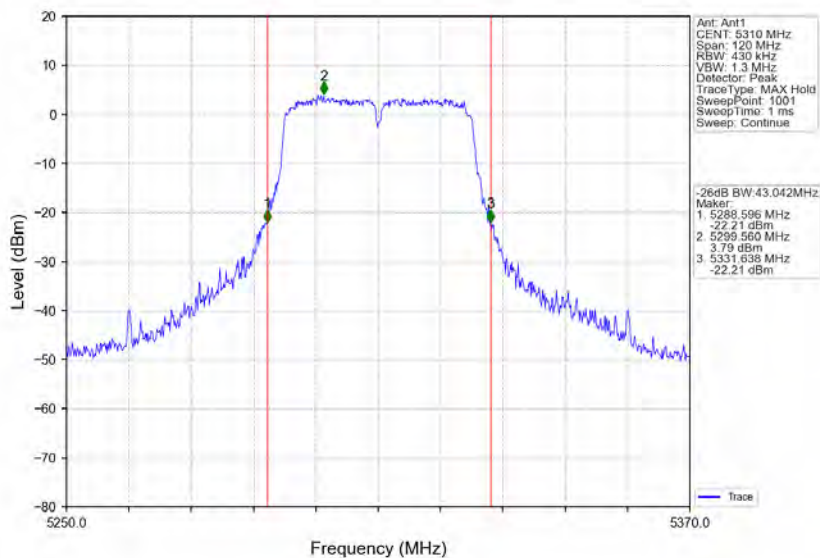
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



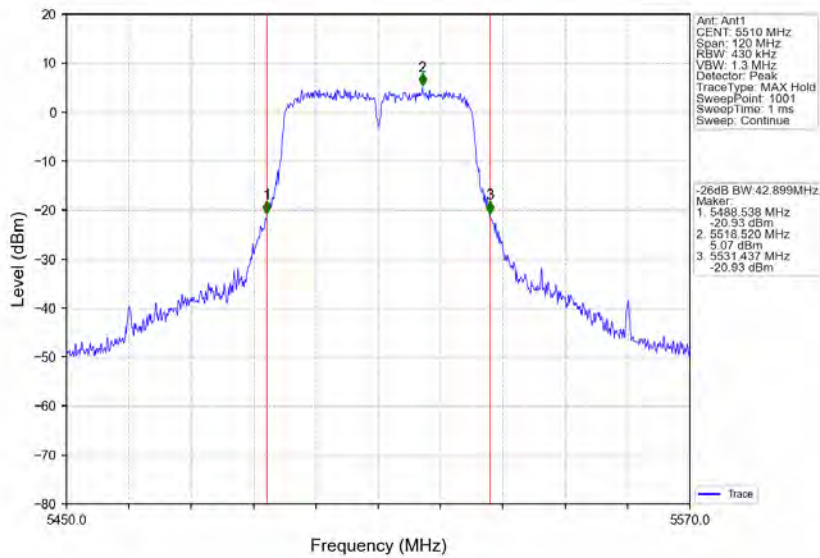
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

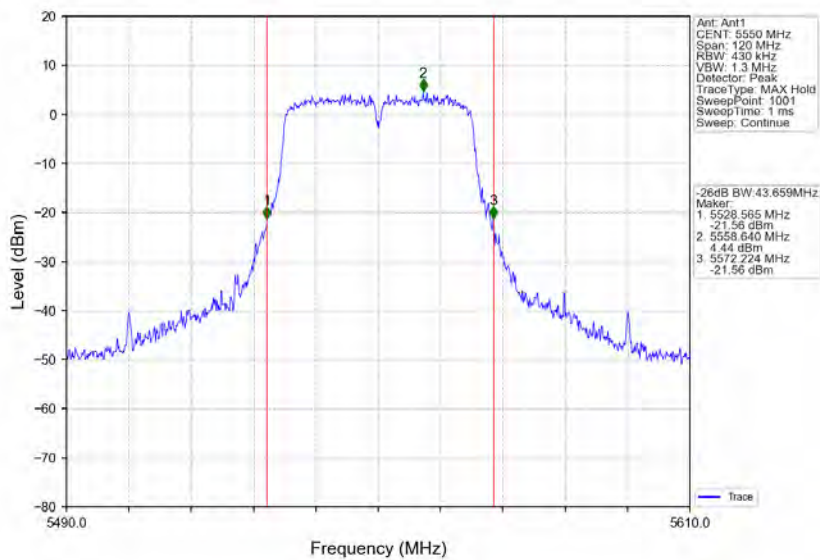
Report No.: KSCR231100205204

Page: 233 of 315

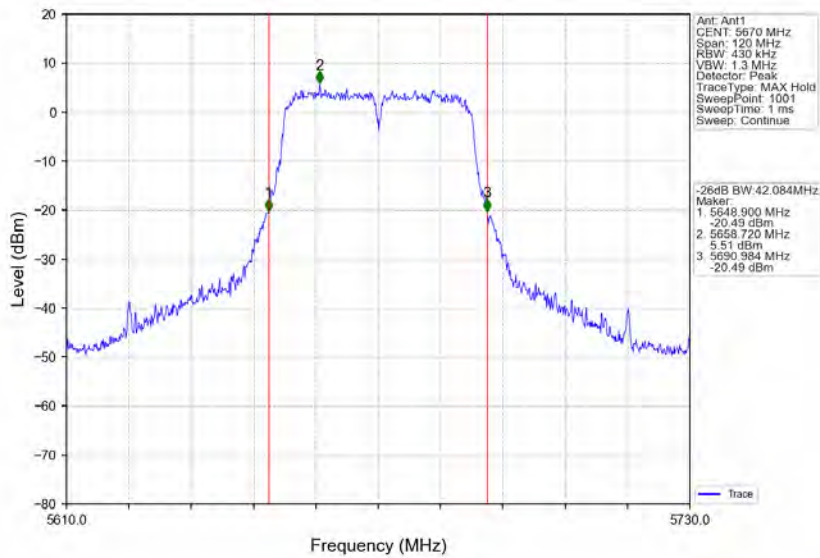
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



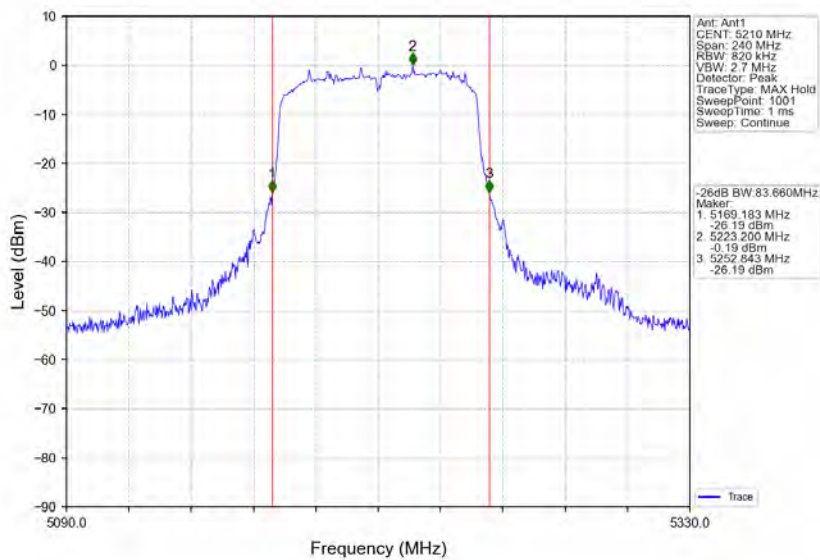
802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



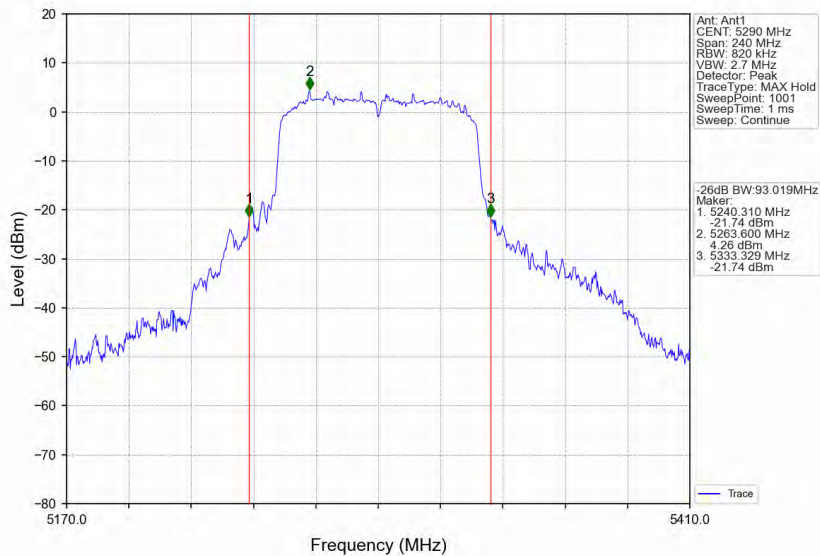
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



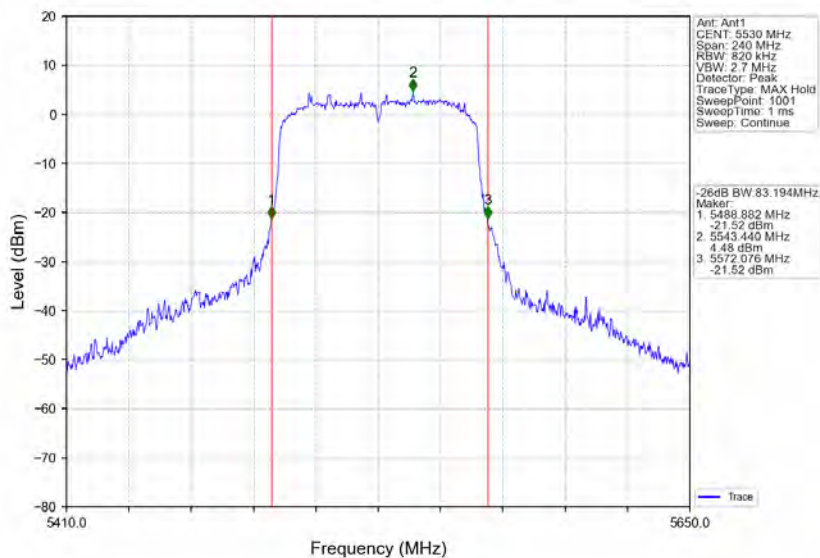
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



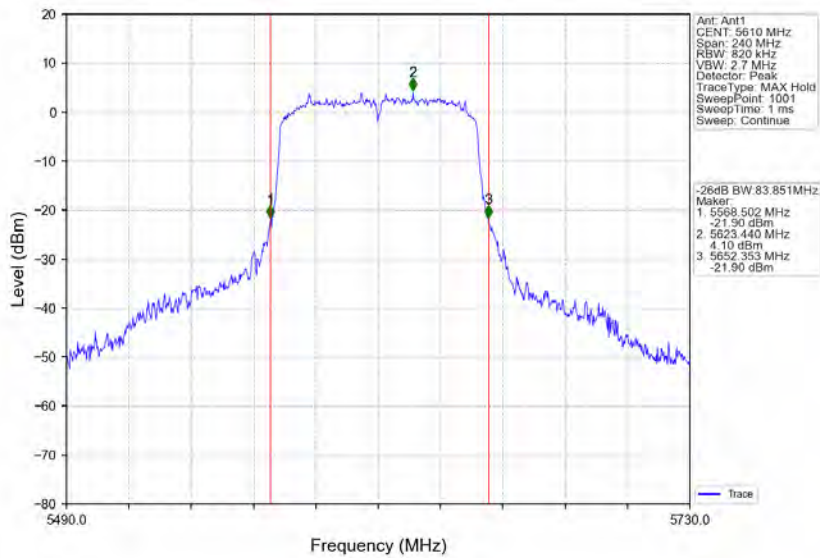
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 236 of 315

802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	14.06	≤ 23.98	Pass
		5200	14.19	≤ 23.98	Pass
		5240	13.97	≤ 23.98	Pass
		5260	14.84	≤ 23.98	Pass
		5300	13.88	≤ 23.98	Pass
		5320	14.64	≤ 23.98	Pass
		5500	14.97	≤ 23.98	Pass
		5580	15.08	≤ 23.98	Pass
		5700	13.31	≤ 23.98	Pass
		5745	13.78	≤ 30	Pass
		5785	14.52	≤ 30	Pass
		5825	13.72	≤ 30	Pass
802.11n (HT20)	SISO	5180	14.16	≤ 23.98	Pass
		5200	13.72	≤ 23.98	Pass
		5240	14.15	≤ 23.98	Pass
		5260	14.36	≤ 23.98	Pass
		5300	13.34	≤ 23.98	Pass
		5320	14.12	≤ 23.98	Pass
		5500	14.78	≤ 23.98	Pass
		5580	14.92	≤ 23.98	Pass
		5700	13.64	≤ 23.98	Pass
		5745	14.49	≤ 30	Pass
		5785	14.19	≤ 30	Pass
		5825	13.73	≤ 30	Pass
802.11n (HT40)	SISO	5190	13.86	≤ 23.98	Pass
		5230	13.46	≤ 23.98	Pass
		5270	14.69	≤ 23.98	Pass
		5310	14.04	≤ 23.98	Pass
		5510	14.95	≤ 23.98	Pass
		5550	14.32	≤ 23.98	Pass
		5670	14.92	≤ 23.98	Pass
		5755	13.51	≤ 30	Pass
		5795	14.09	≤ 30	Pass
802.11ac (VHT80)	SISO	5210	13.90	≤ 23.98	Pass
		5290	13.82	≤ 23.98	Pass
		5530	13.69	≤ 23.98	Pass



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 238 of 315

		5610	13.59	≤ 23.98	Pass
		5775	13.56	≤ 30	Pass
Note1: Antenna Gain: Ant1: 1.00dBi;					

3.2 EIRP

3.2.1 Test Result

Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	15.06	<=22.57	Pass
		5200	15.19	<=22.61	Pass
		5240	14.97	<=22.57	Pass
		5260	15.84	<=29.59	Pass
		5300	14.88	<=29.61	Pass
		5320	15.64	<=29.59	Pass
		5500	15.97	<=29.57	Pass
		5580	16.08	<=29.57	Pass
		5700	14.31	<=29.59	Pass
		5745	14.78	/	Pass
		5785	15.52	/	Pass
		5825	14.72	/	Pass
802.11n (HT20)	SISO	5180	15.16	<=22.77	Pass
		5200	14.72	<=22.77	Pass
		5240	15.15	<=22.76	Pass
		5260	15.36	<=29.77	Pass
		5300	14.34	<=29.77	Pass
		5320	15.12	<=29.77	Pass
		5500	15.78	<=29.75	Pass
		5580	15.92	<=29.75	Pass
		5700	14.64	<=29.76	Pass
		5745	15.49	/	Pass
		5785	15.19	/	Pass
		5825	14.73	/	Pass
802.11n (HT40)	SISO	5190	14.86	<=23.01	Pass
		5230	14.46	<=23.01	Pass
		5270	15.69	<=30	Pass
		5310	15.04	<=30	Pass
		5510	15.95	<=30	Pass
		5550	15.32	<=30	Pass
		5670	15.92	<=30	Pass
		5755	14.51	/	Pass
		5795	15.09	/	Pass
802.11ac (VHT80)	SISO	5210	14.90	<=23.01	Pass
		5290	14.82	<=30	Pass
		5530	14.69	<=30	Pass
		5775	14.56	/	Pass

Note1: Antenna Gain: Ant1: 1.00dBi;



Compliance Certification Services (Kunshan) Inc.

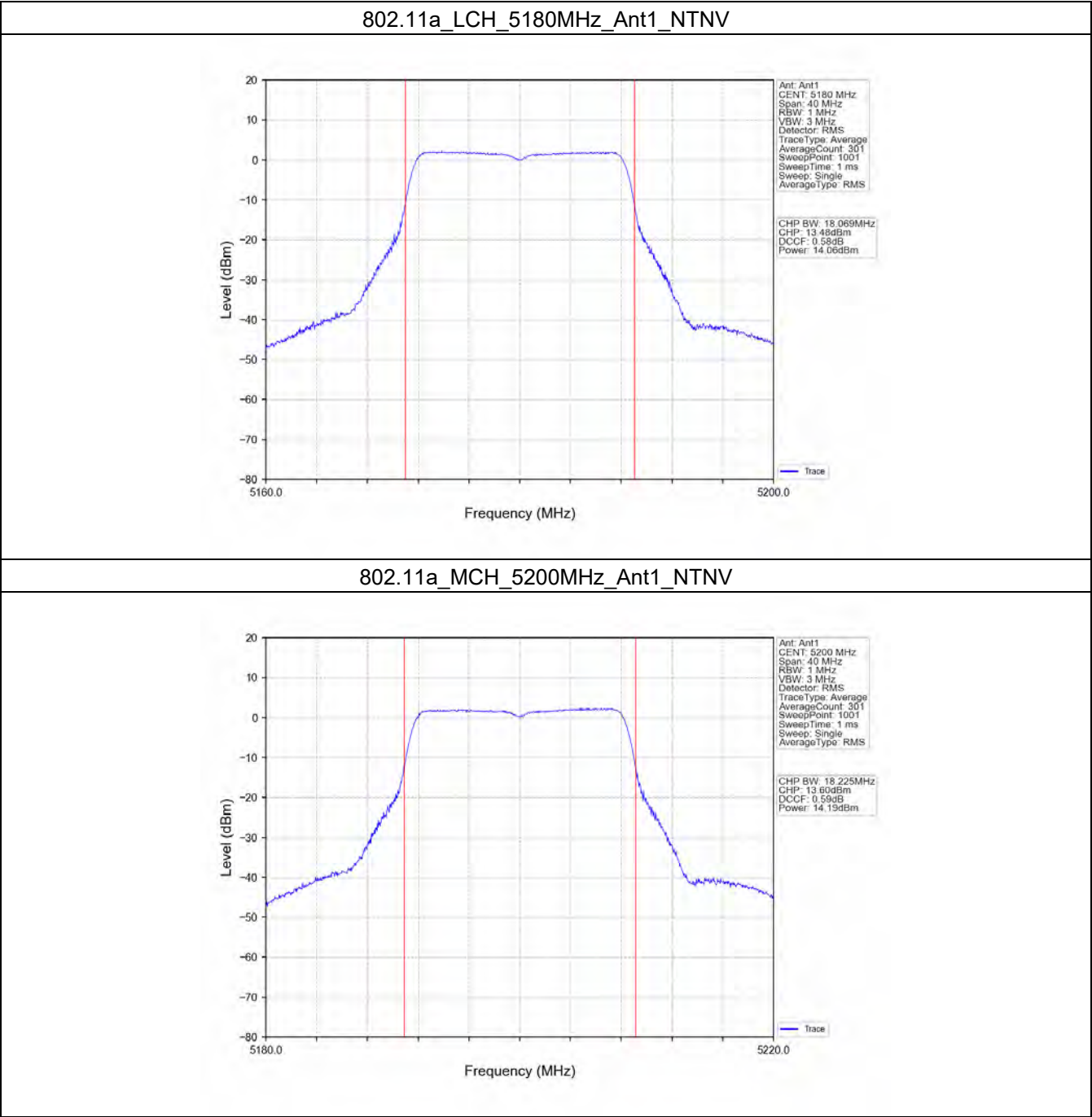
CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

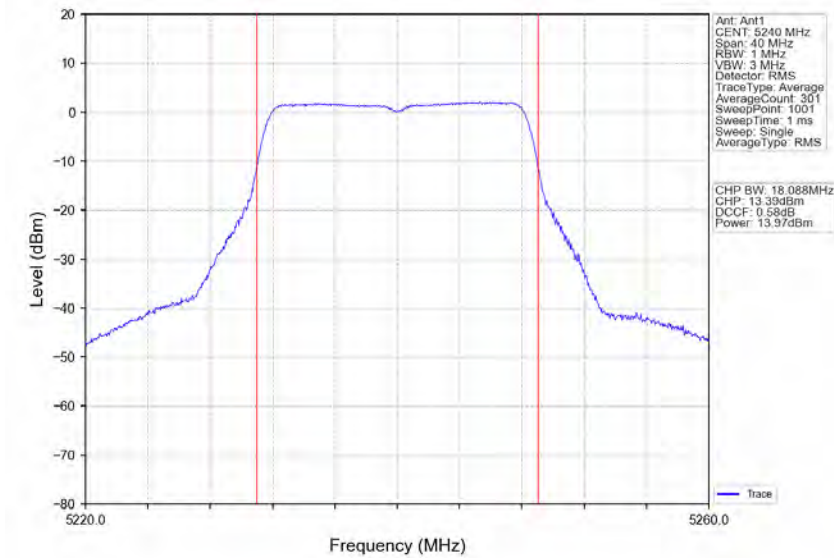
Page: 240 of 315

Note2: E.I.R.P = Measured Power + Antenna Gain
--

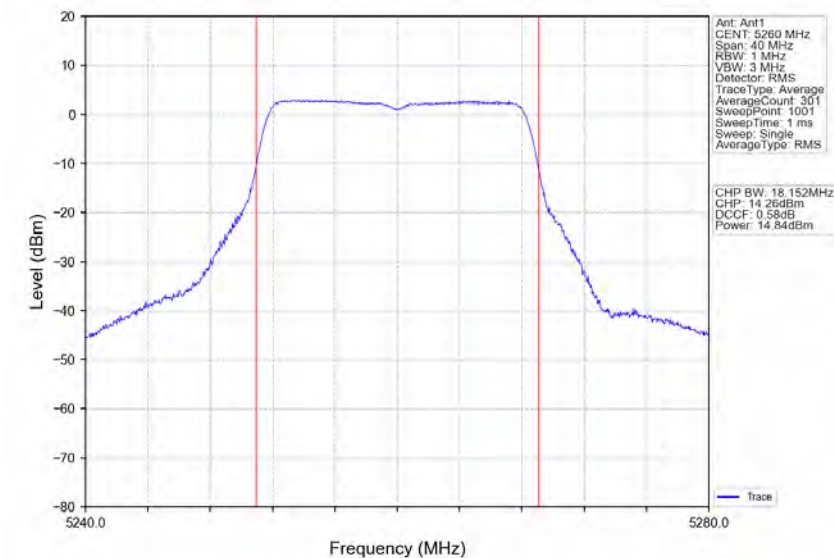
3.2.2 Test Graph



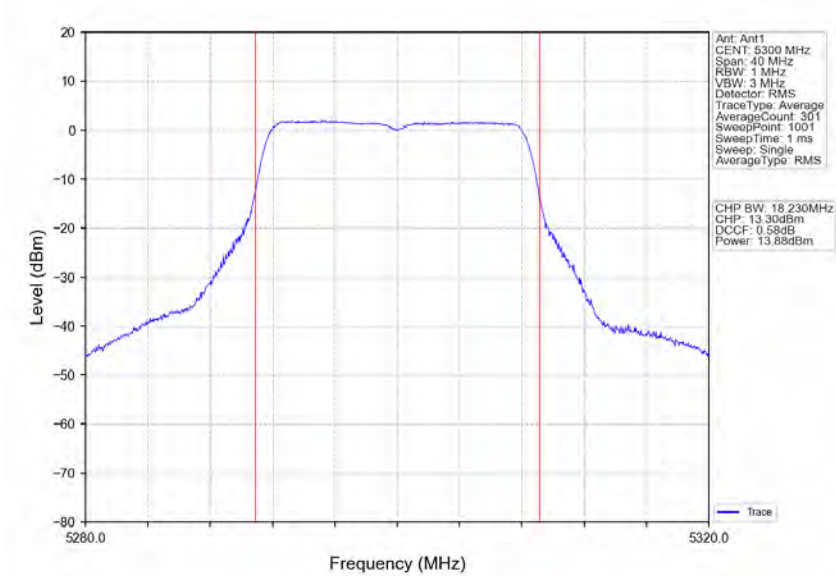
802.11a_HCH_5240MHz_Ant1_NTNV



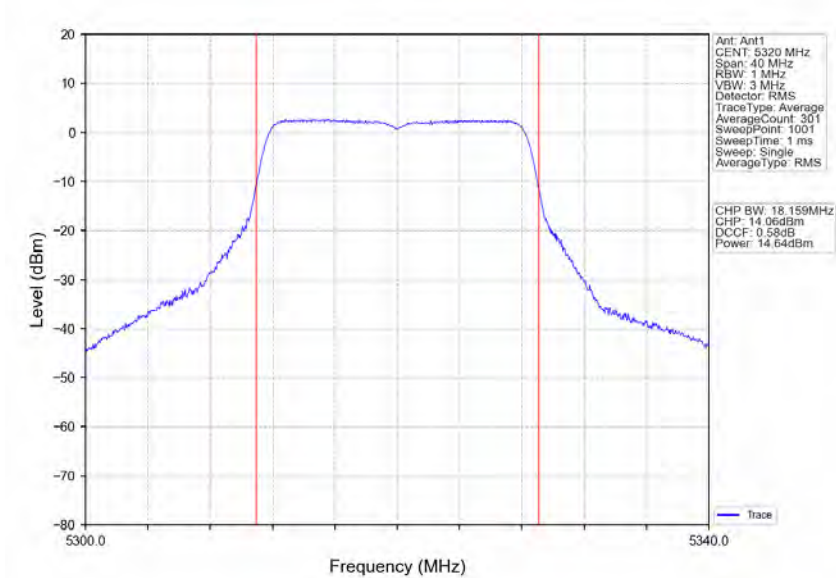
802.11a_LCH_5260MHz_Ant1_NTNV



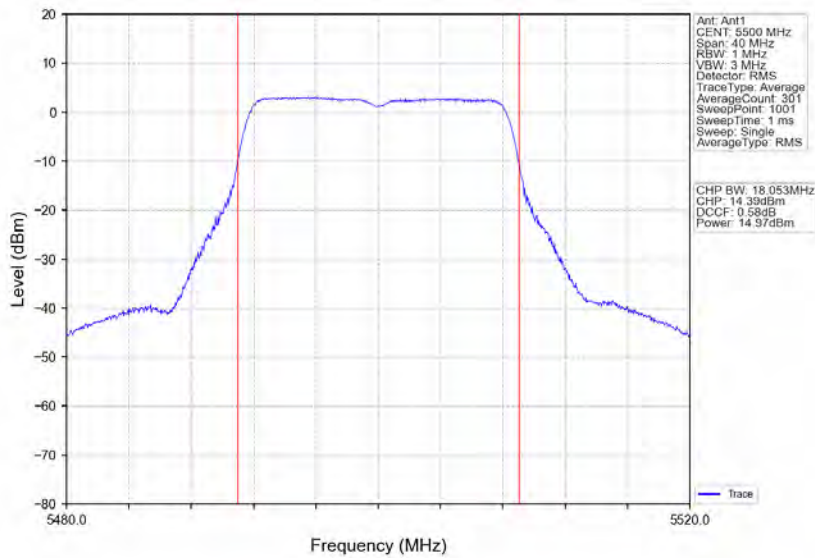
802.11a_MCH_5300MHz_Ant1_NTNV



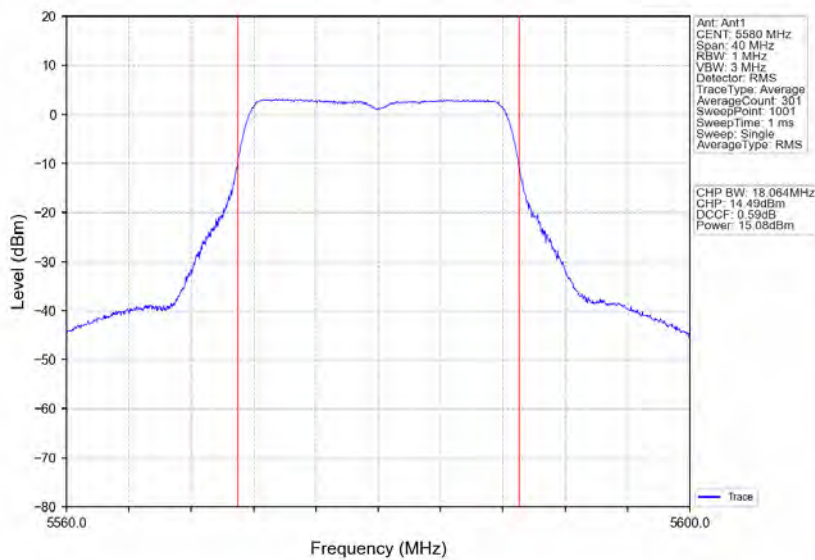
802.11a_HCH_5320MHz_Ant1_NTNV



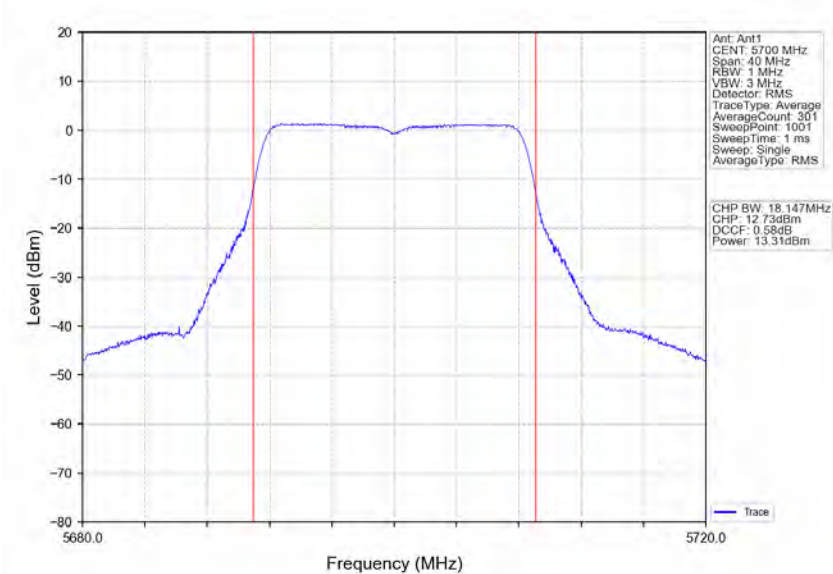
802.11a_LCH_5500MHz_Ant1_NTNV



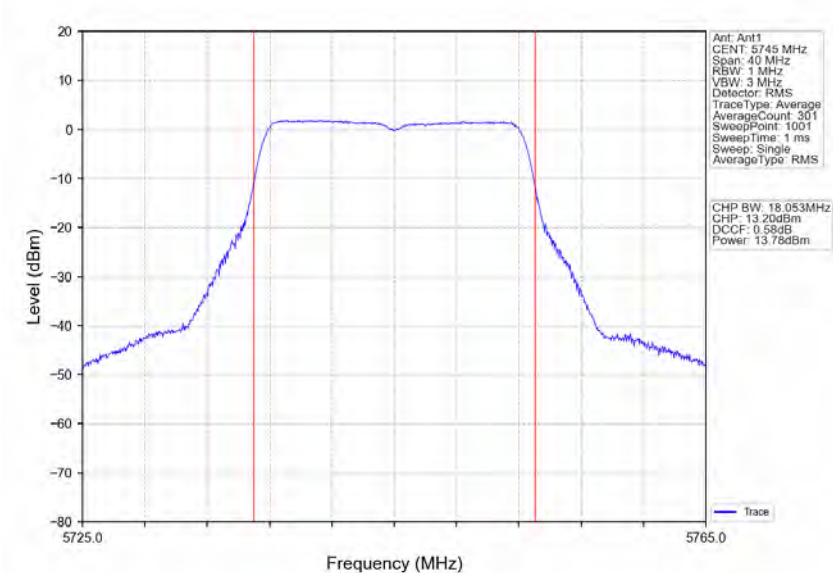
802.11a_MCH_5580MHz_Ant1_NTNV



802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



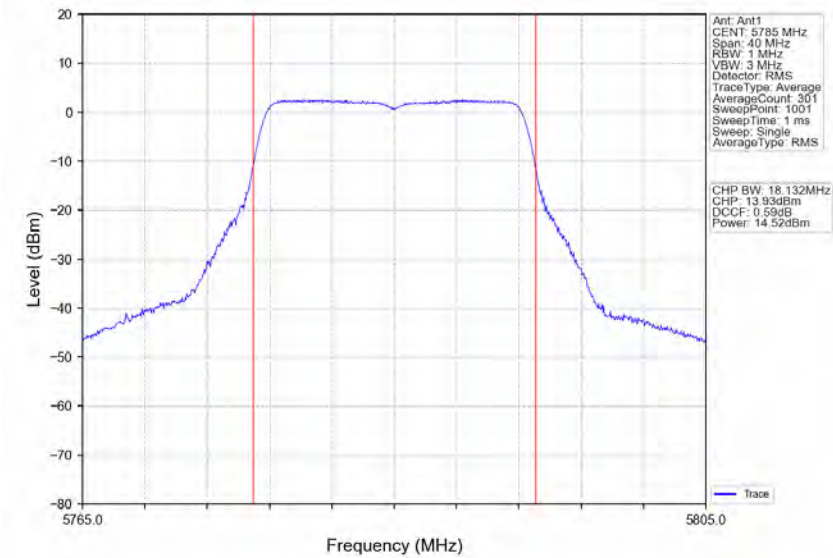
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

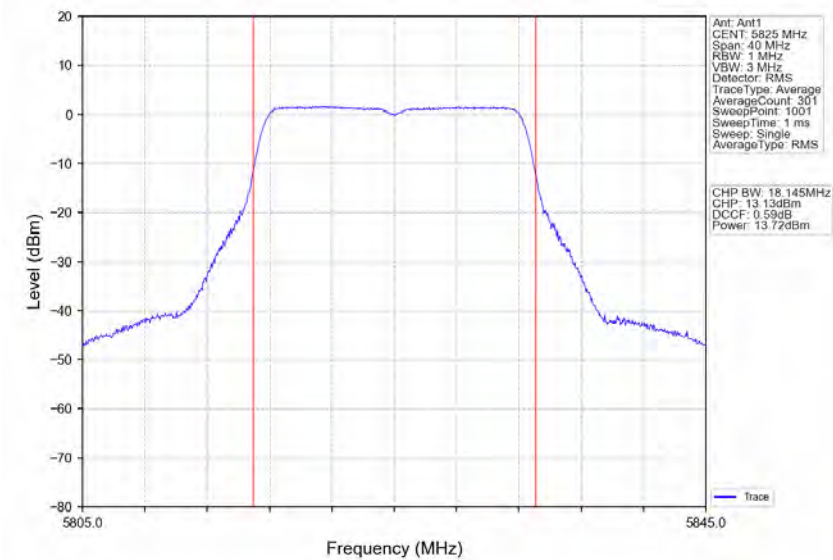
Report No.: KSCR231100205204

Page: 246 of 315

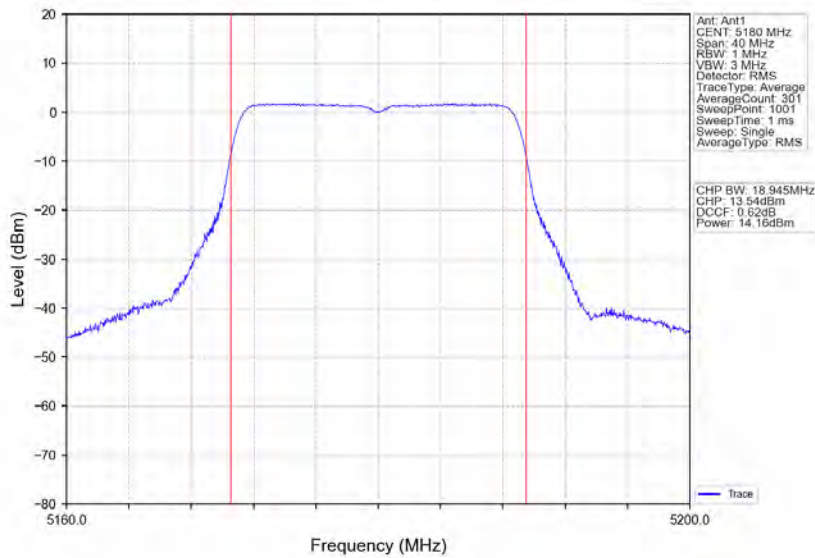
802.11a_MCH_5785MHz_Ant1_NTNV



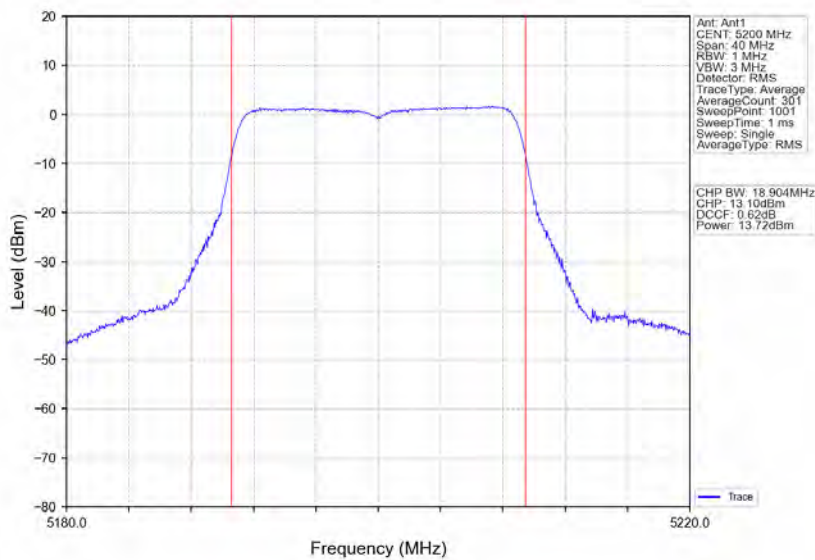
802.11a_HCH_5825MHz_Ant1_NTNV



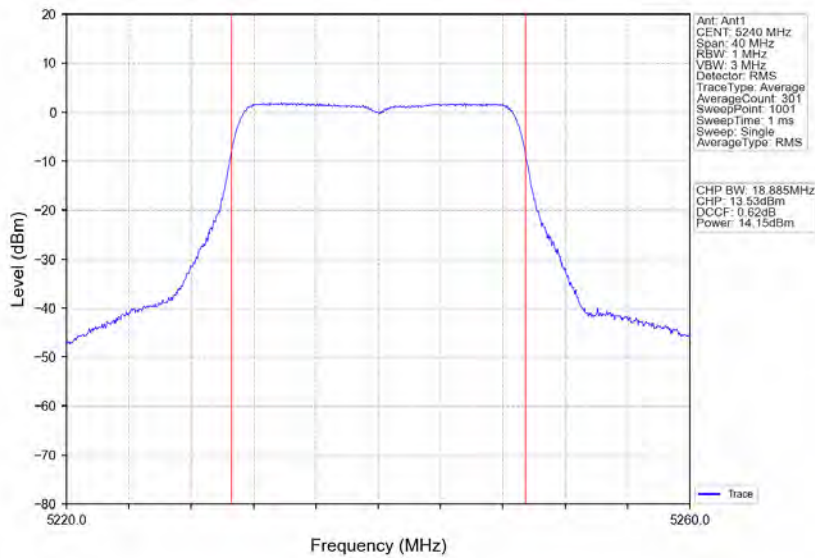
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



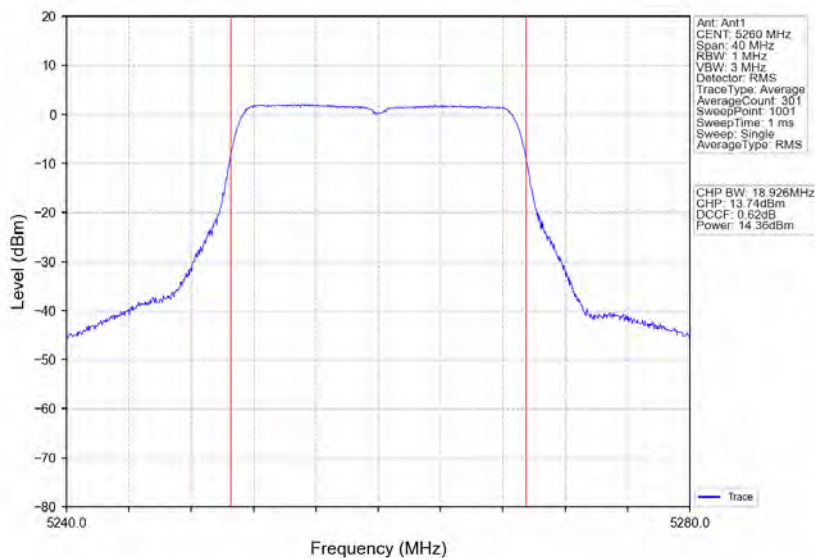
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



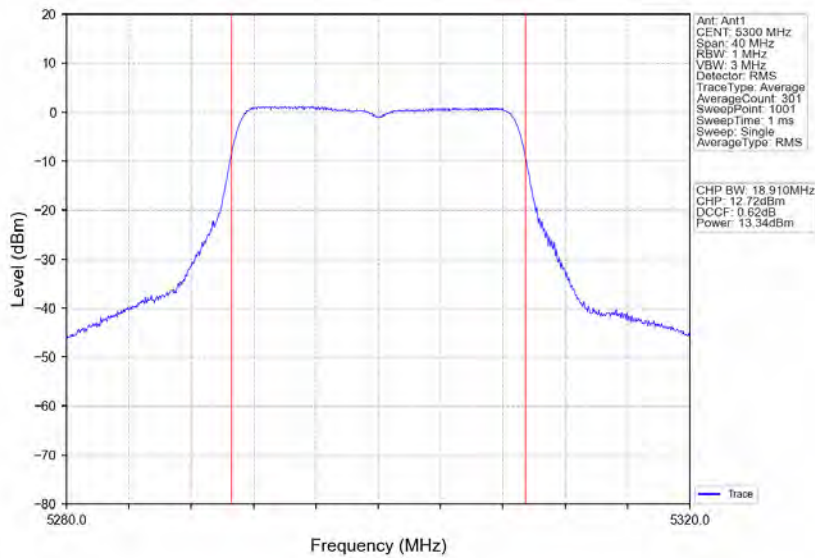
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



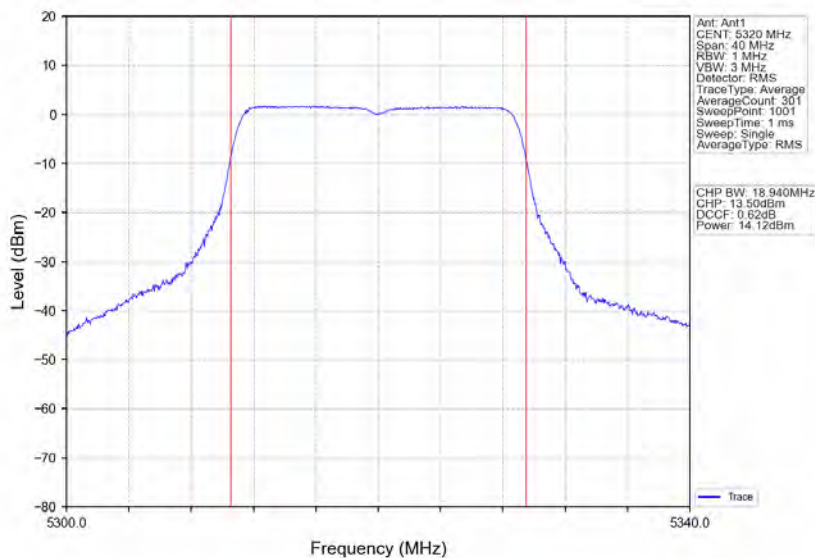
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



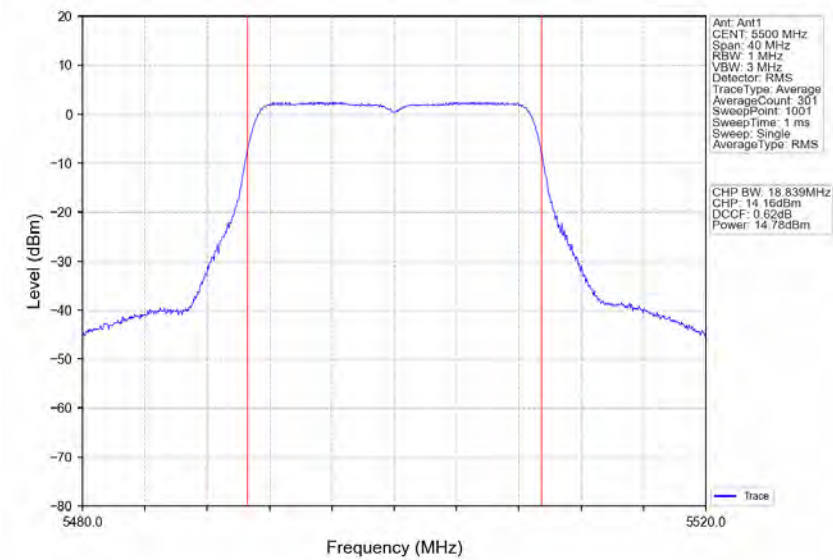
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



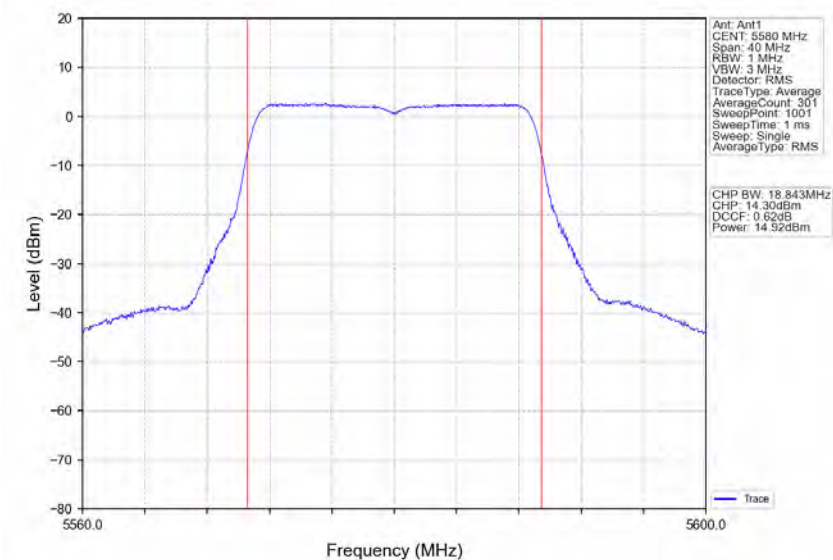
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



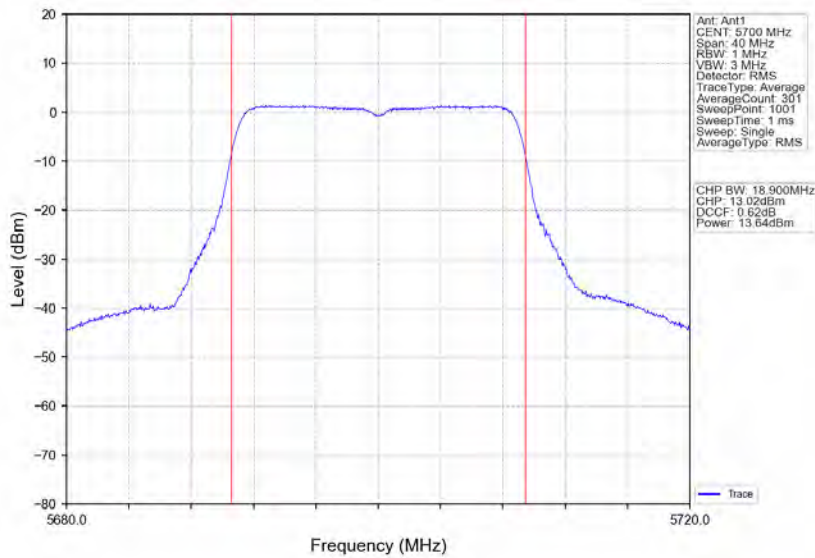
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



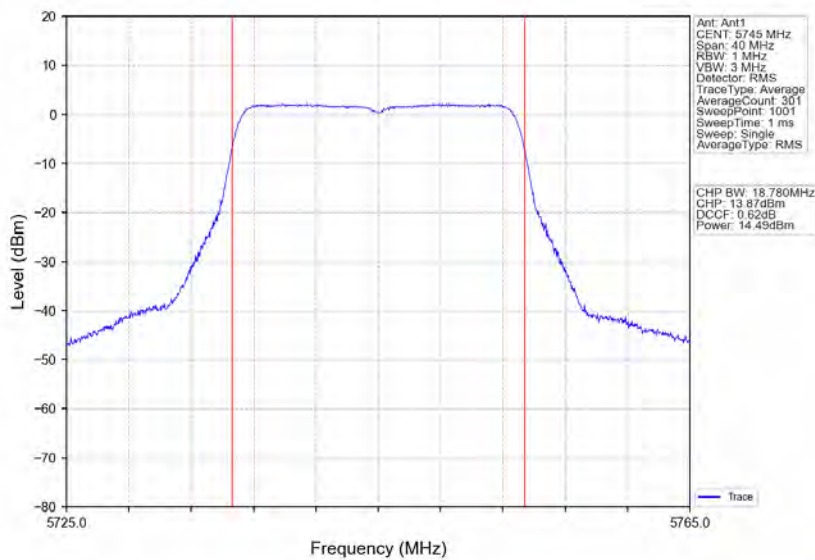
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



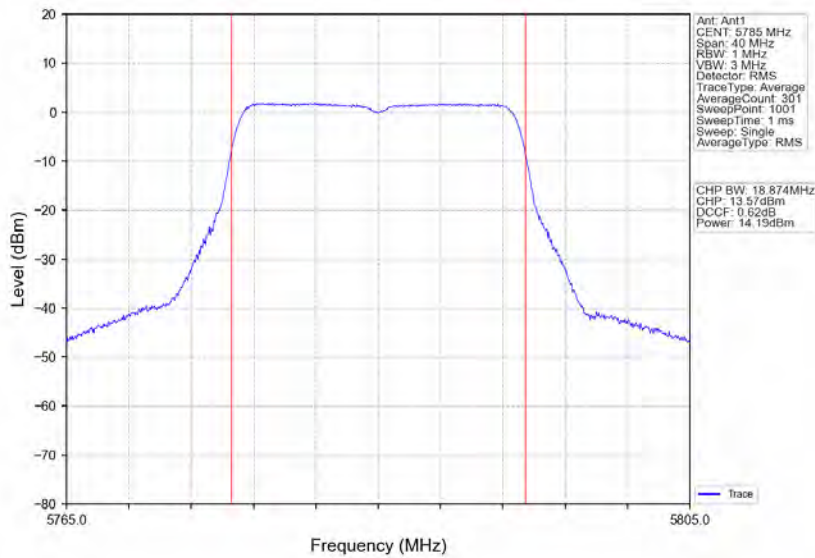
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



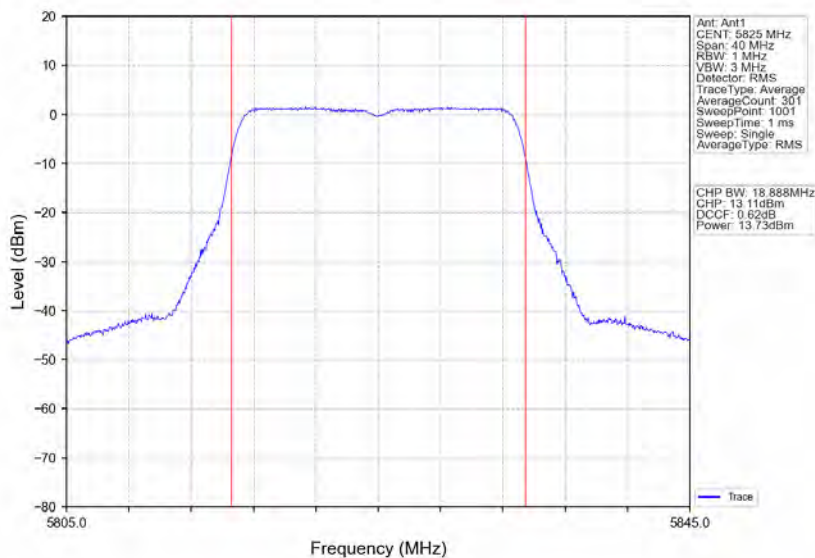
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



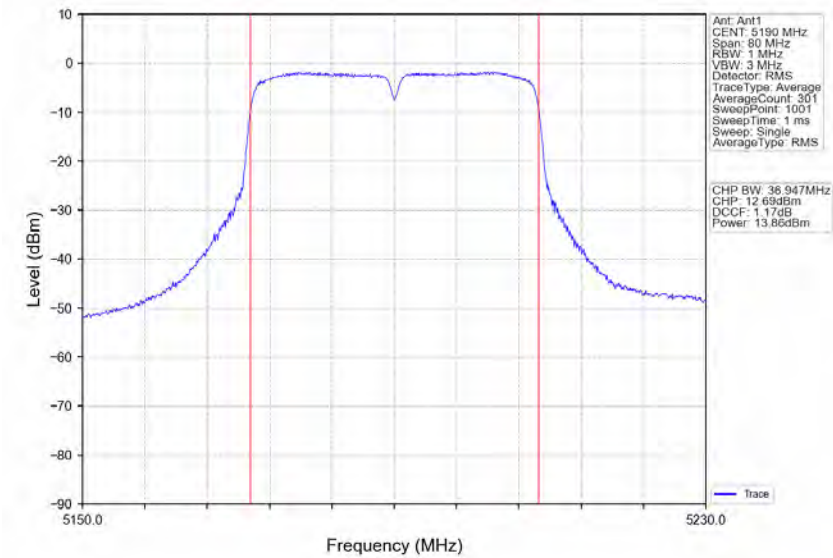
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



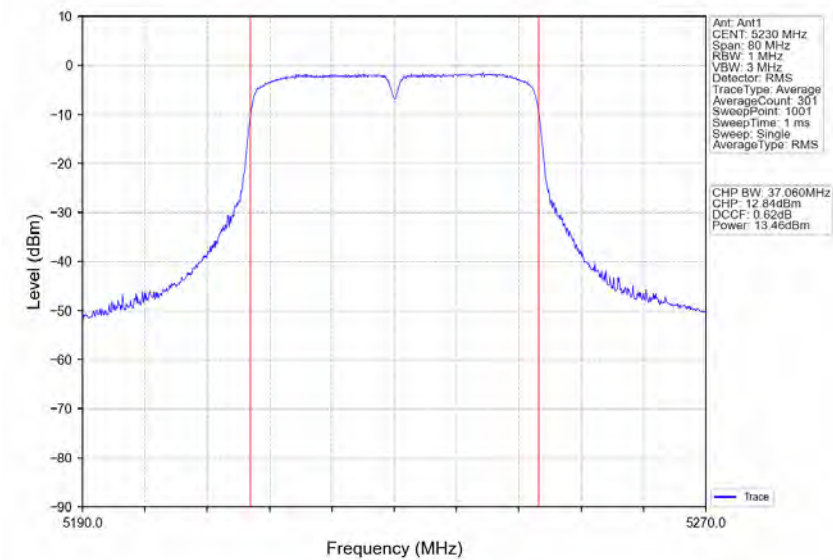
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



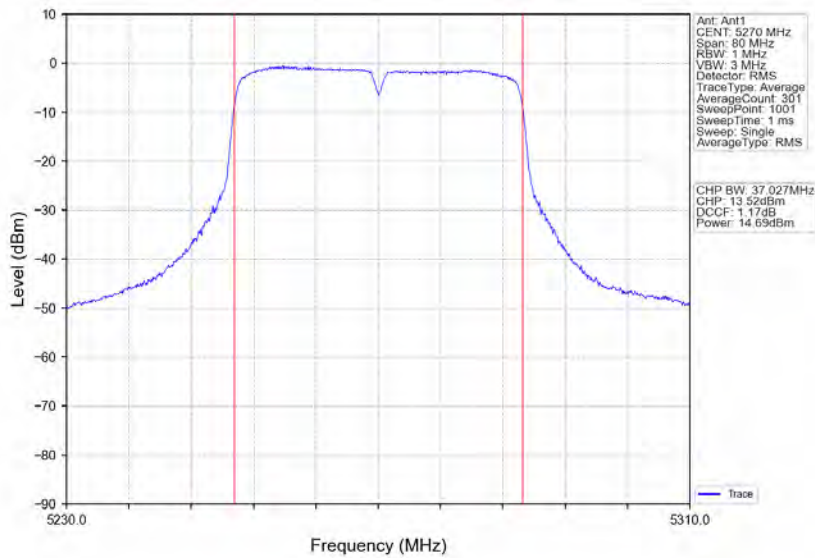
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



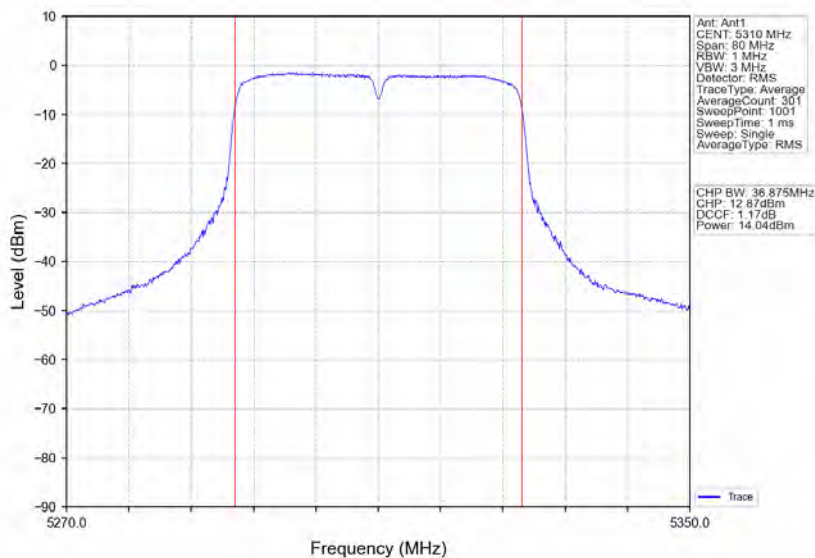
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



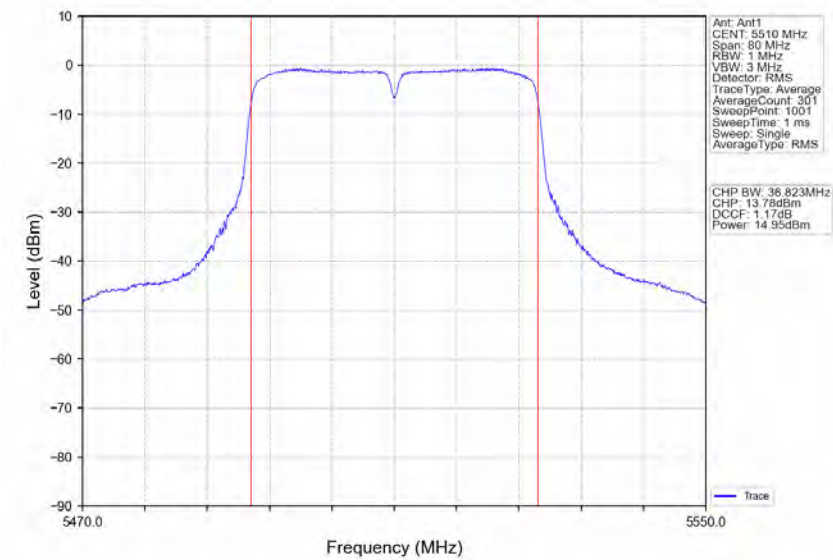
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



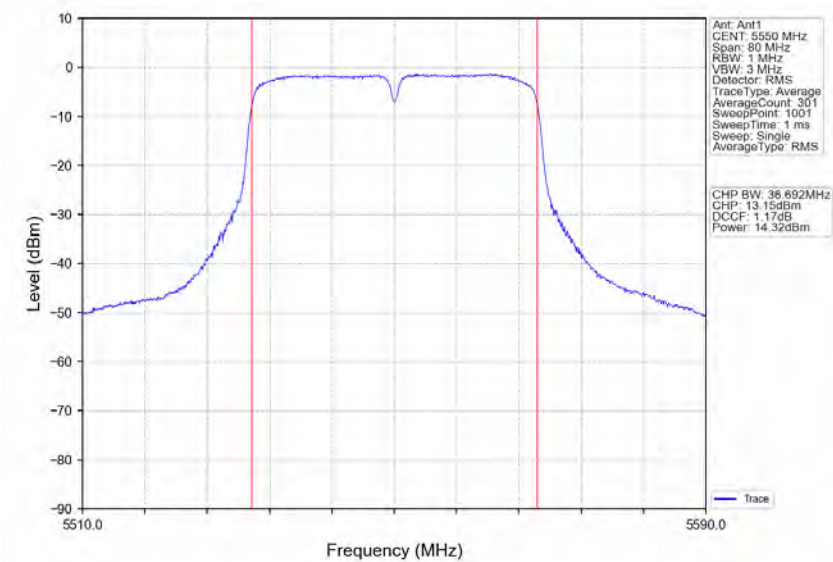
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



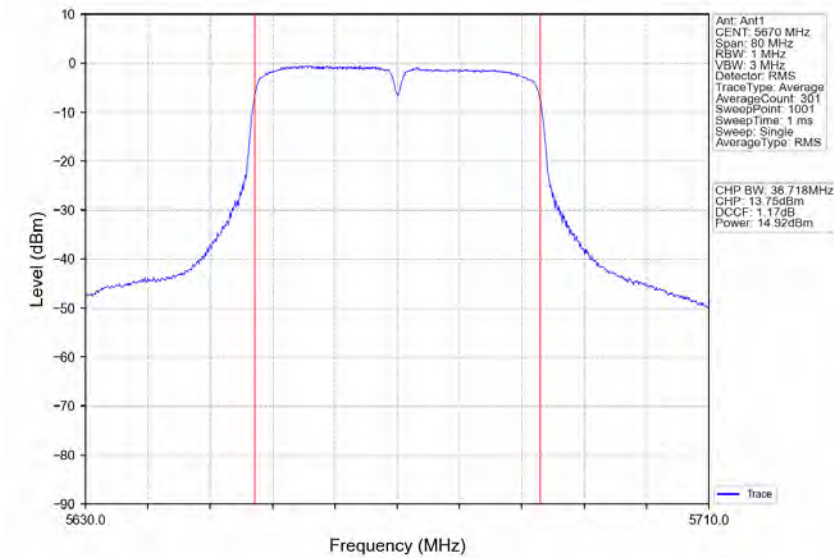
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



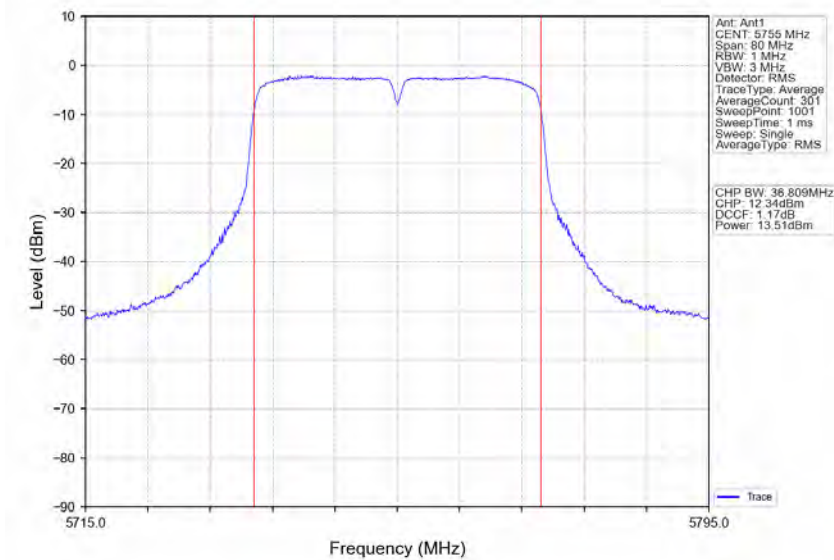
802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



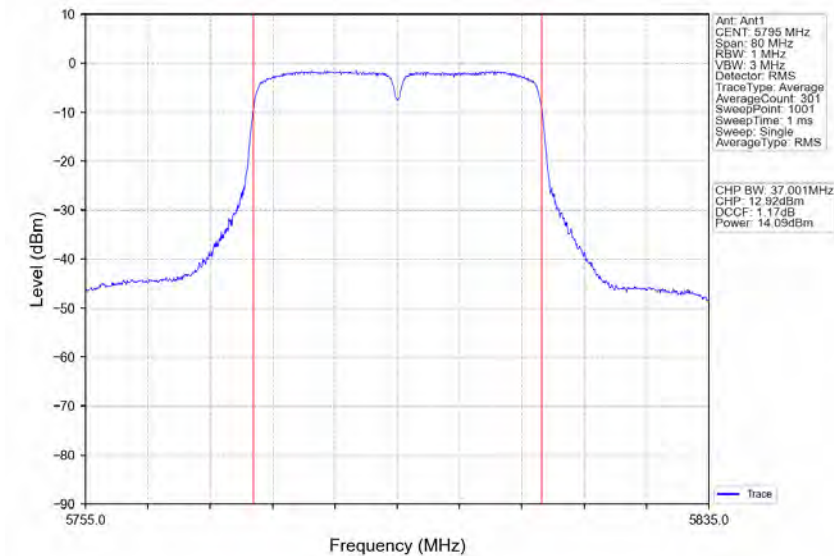
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



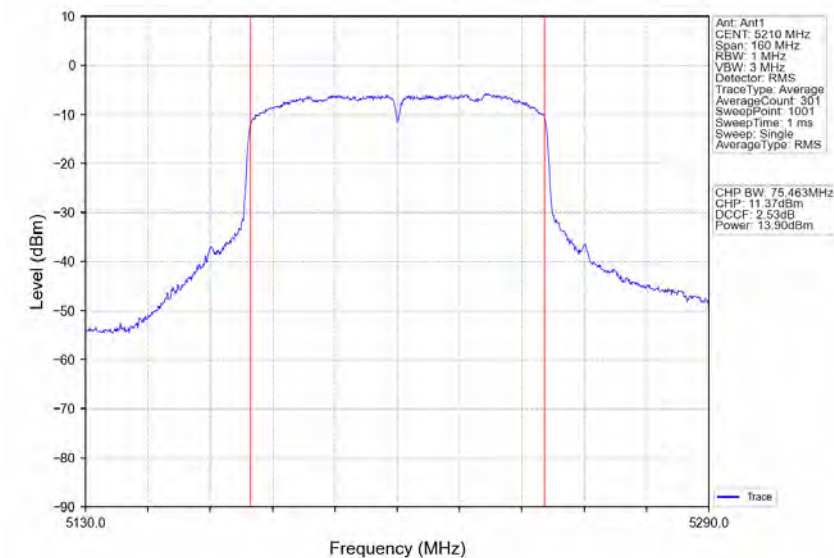
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



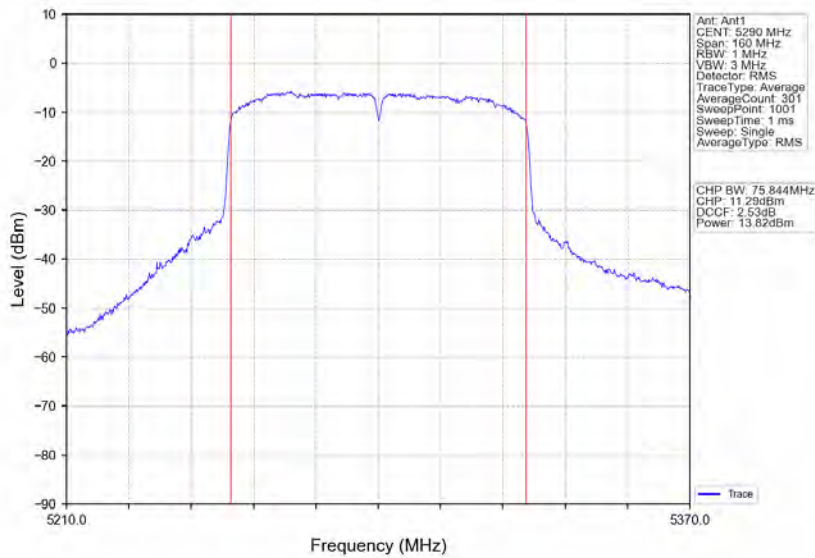
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



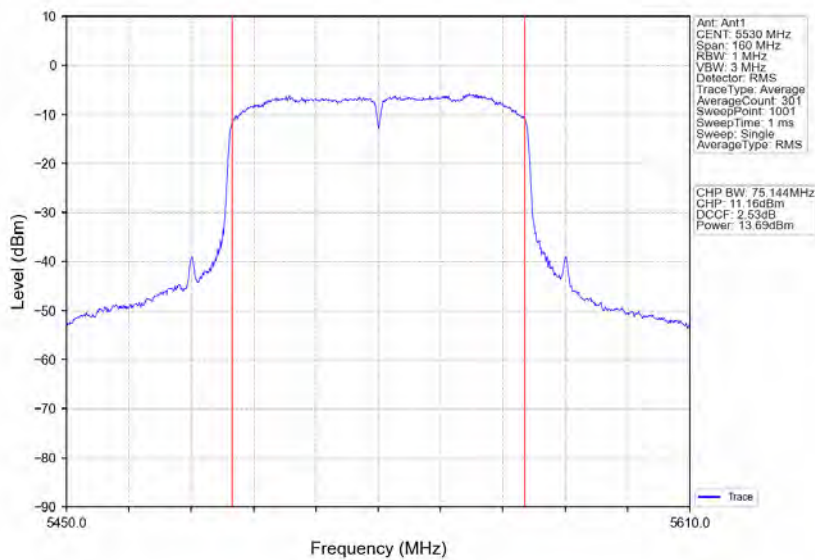
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



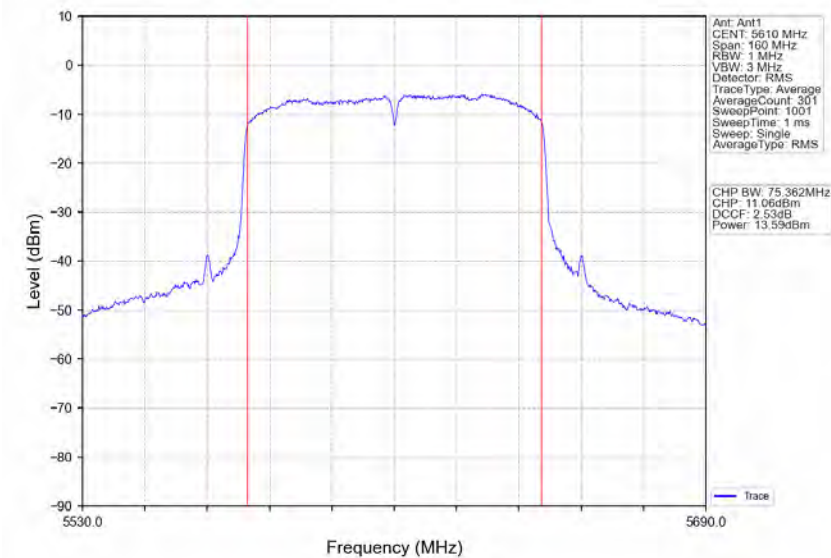
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



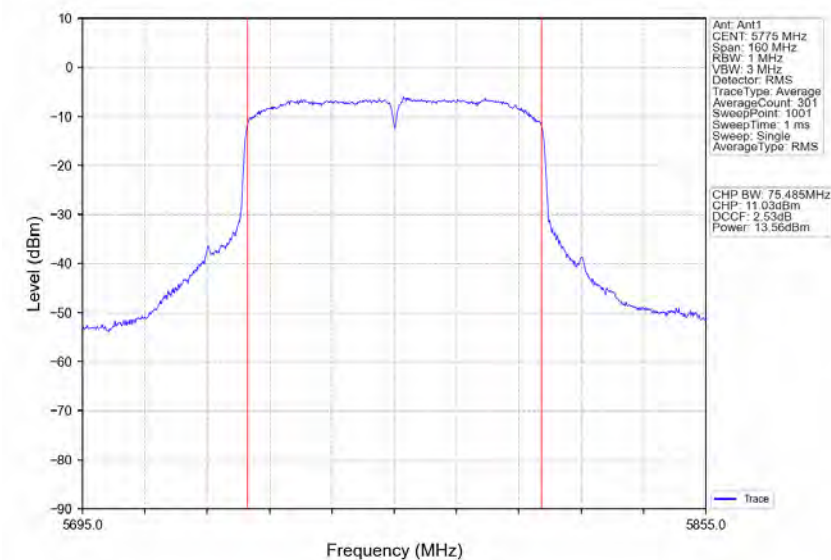
802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



4. Maximum Power Spectral Density

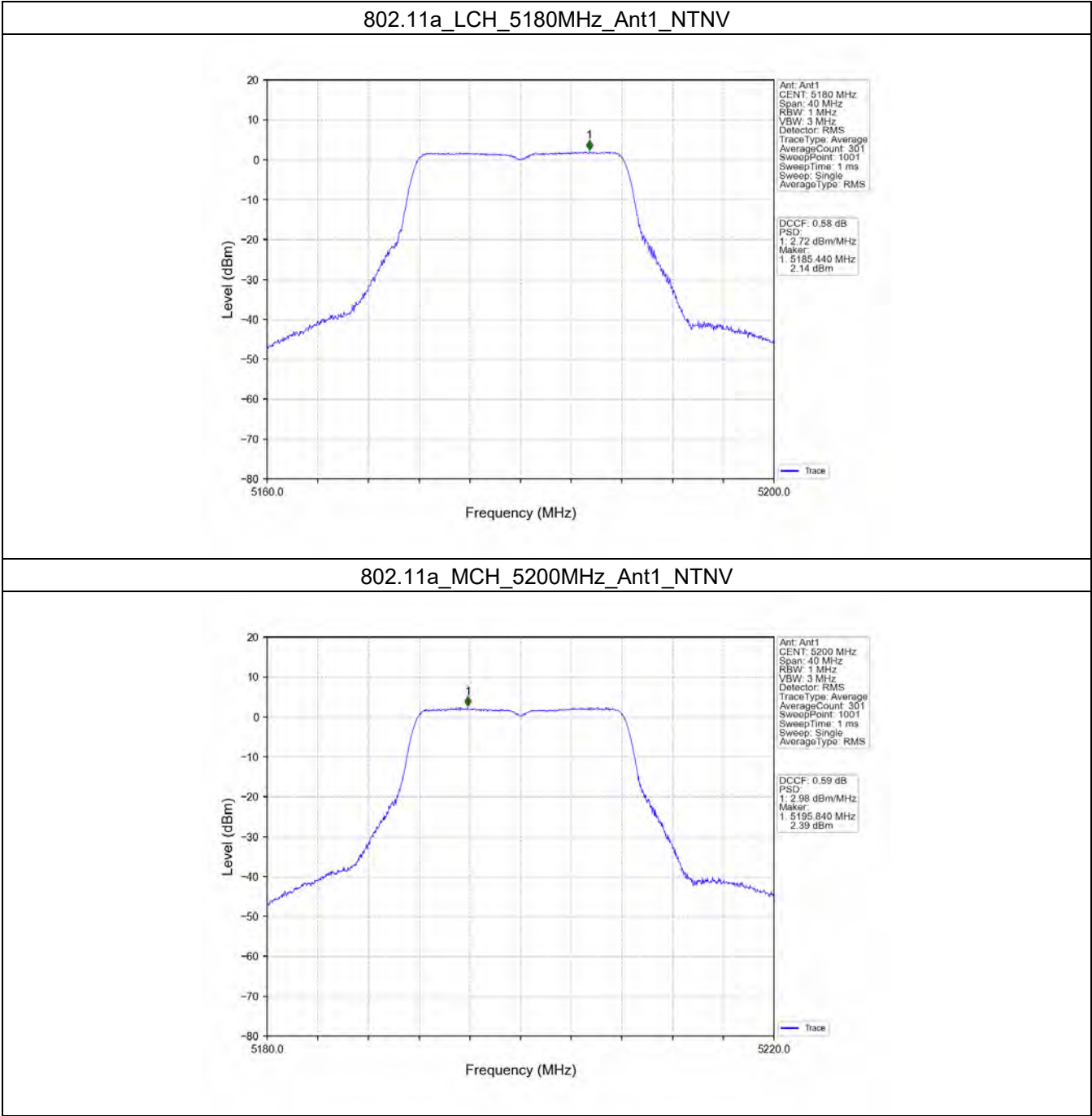
4.1 PSD

4.1.1 Test Result

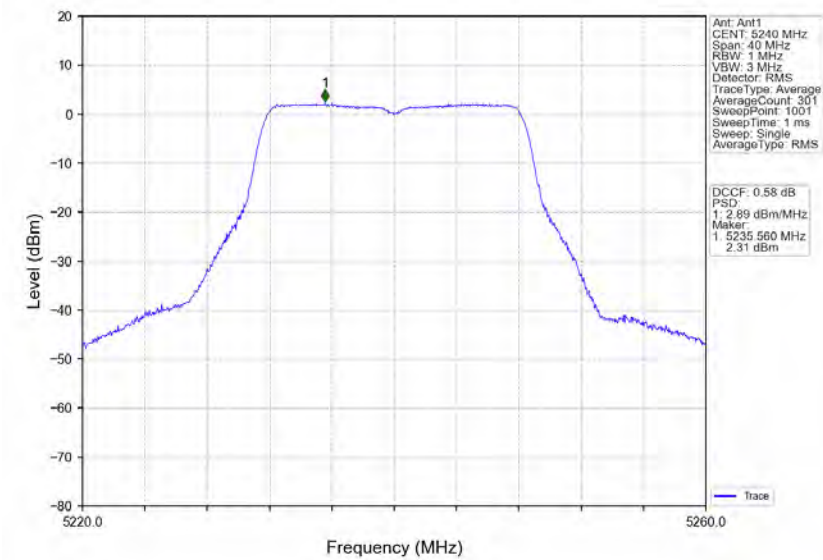
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	2.72	<=11	Pass
		5200	2.98	<=11	Pass
		5240	2.89	<=11	Pass
		5260	3.56	<=11	Pass
		5300	2.47	<=11	Pass
		5320	3.31	<=11	Pass
		5500	3.46	<=11	Pass
		5580	3.70	<=11	Pass
		5700	1.88	<=11	Pass
802.11n (HT20)	SISO	5180	2.60	<=11	Pass
		5200	2.22	<=11	Pass
		5240	2.48	<=11	Pass
		5260	2.78	<=11	Pass
		5300	1.87	<=11	Pass
		5320	2.51	<=11	Pass
		5500	2.94	<=11	Pass
		5580	3.24	<=11	Pass
		5700	2.31	<=11	Pass
802.11n (HT40)	SISO	5190	-0.48	<=11	Pass
		5230	-0.99	<=11	Pass
		5270	0.26	<=11	Pass
		5310	-0.56	<=11	Pass
		5510	0.55	<=11	Pass
		5550	0.01	<=11	Pass
		5670	0.72	<=11	Pass
802.11ac (VHT80)	SISO	5210	-3.07	<=11	Pass
		5290	-3.06	<=11	Pass
		5530	-3.28	<=11	Pass
		5610	-3.10	<=11	Pass

Note1: Antenna Gain: Ant1: 1.00dBi;

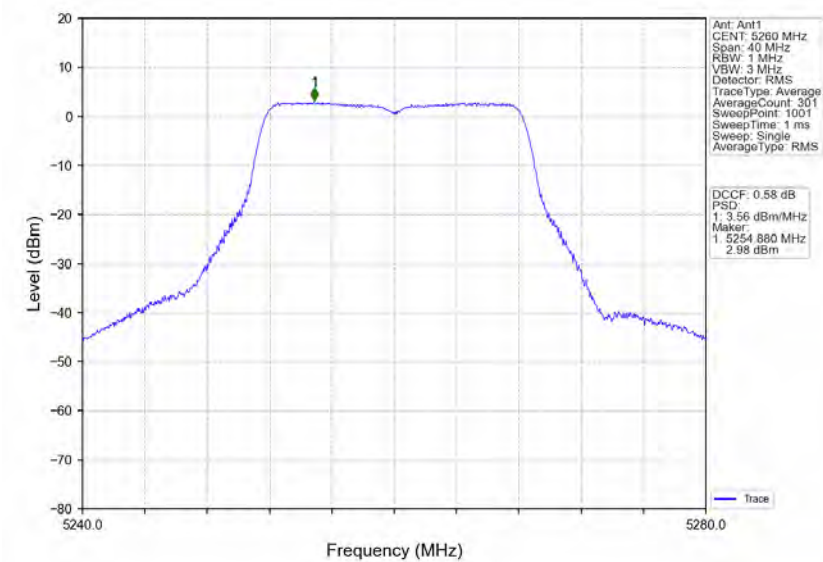
4.1.2 Test Graph



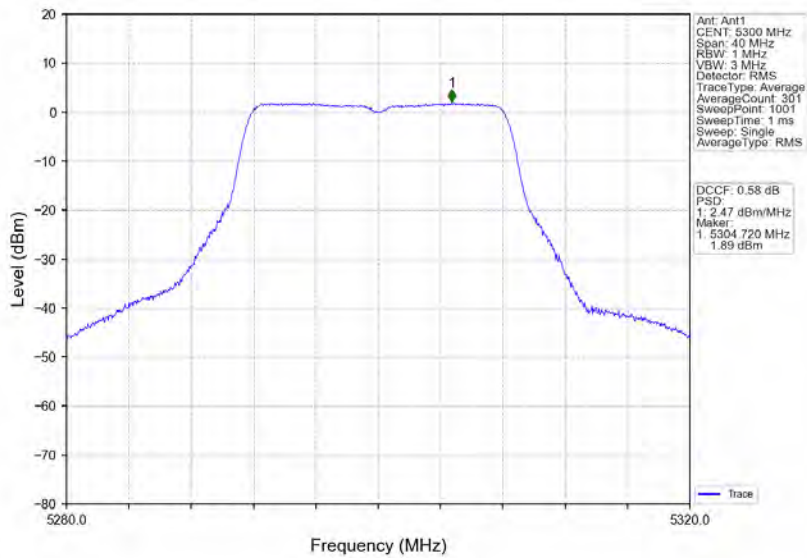
802.11a_HCH_5240MHz_Ant1_NTNV



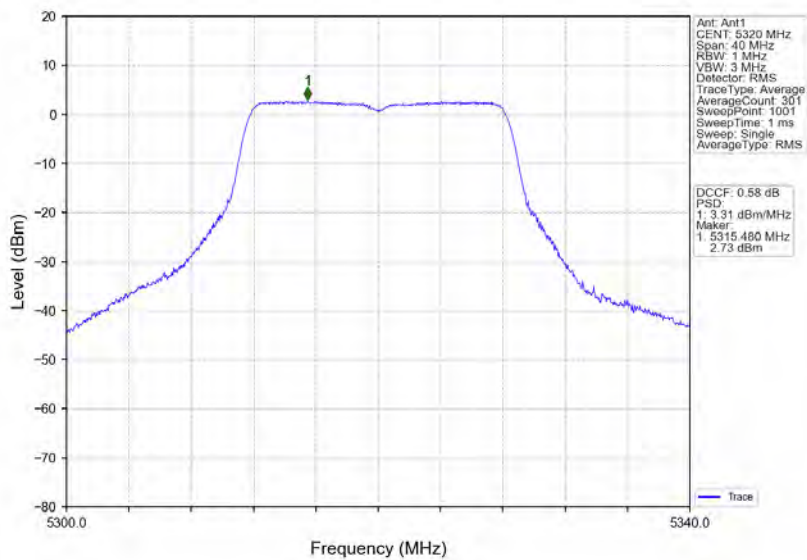
802.11a_LCH_5260MHz_Ant1_NTNV



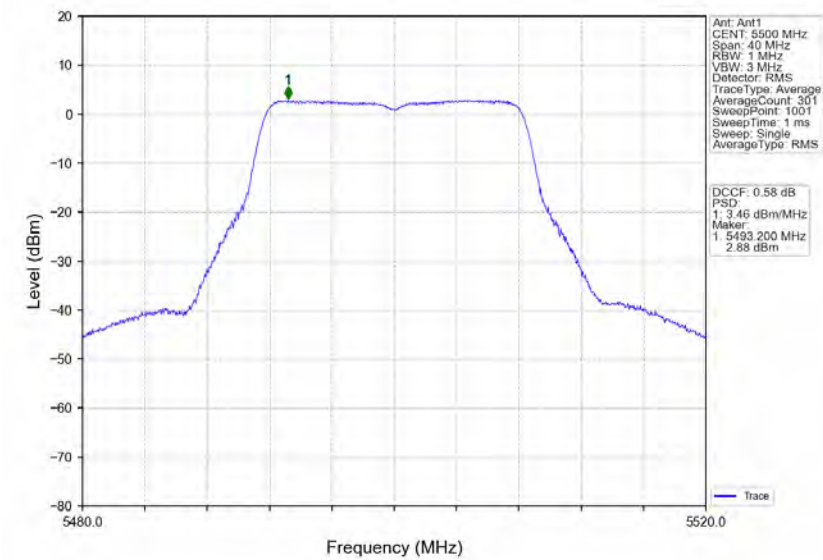
802.11a_MCH_5300MHz_Ant1_NTNV



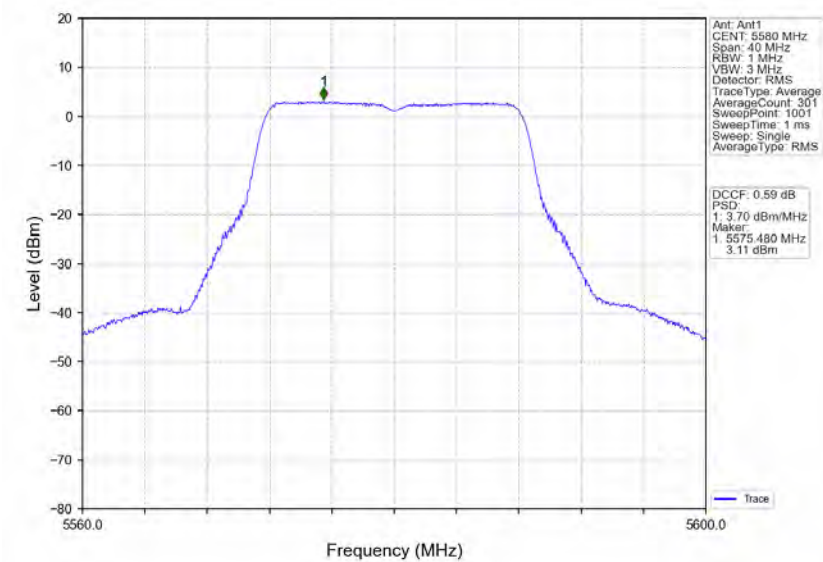
802.11a_HCH_5320MHz_Ant1_NTNV



802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



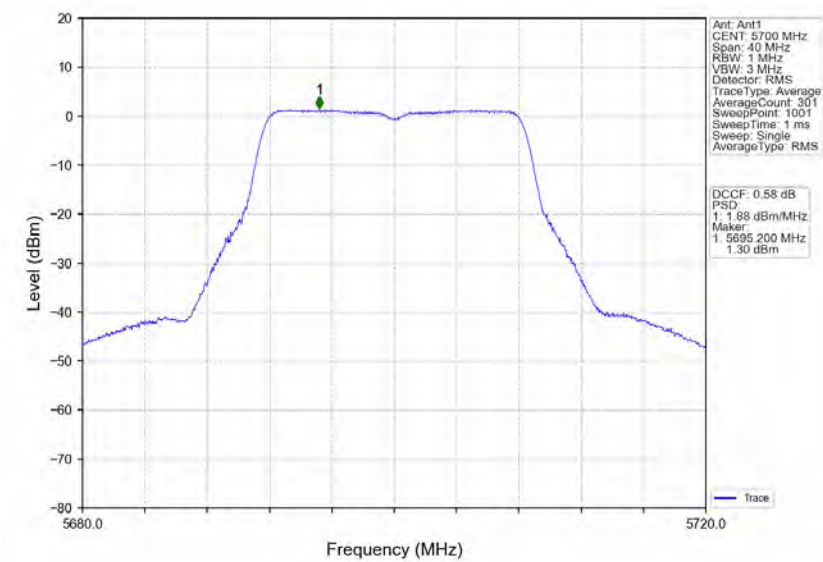
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

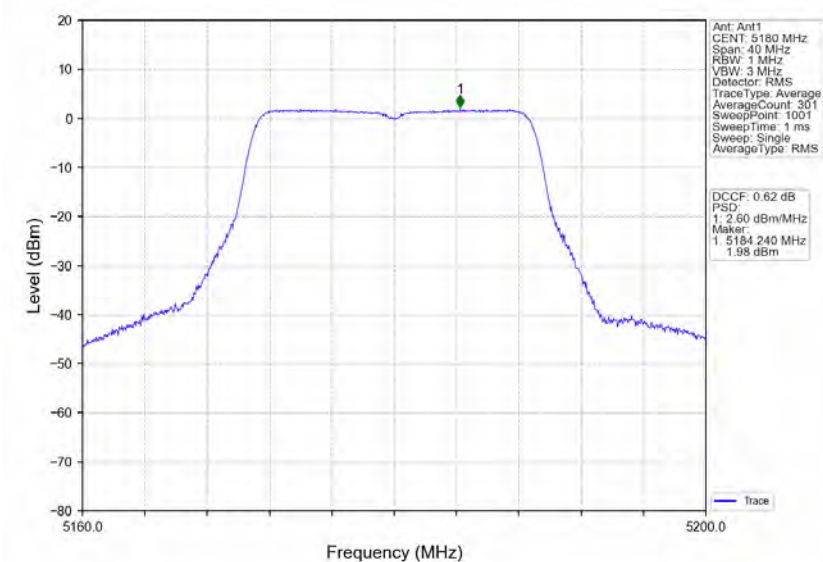
Report No.: KSCR231100205204

Page: 265 of 315

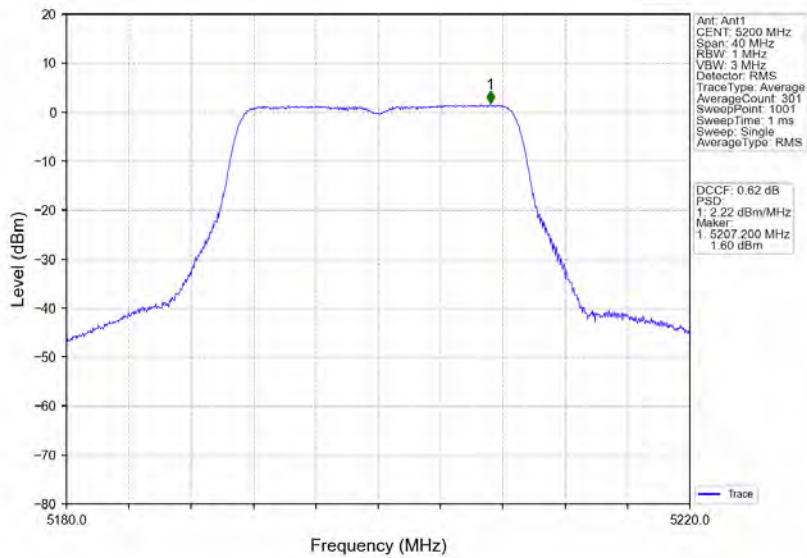
802.11a_HCH_5700MHz_Ant1_NTNV



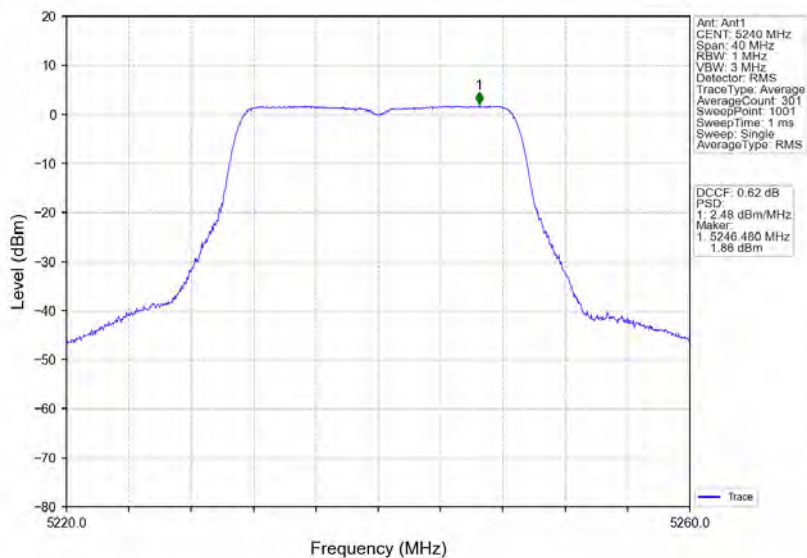
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



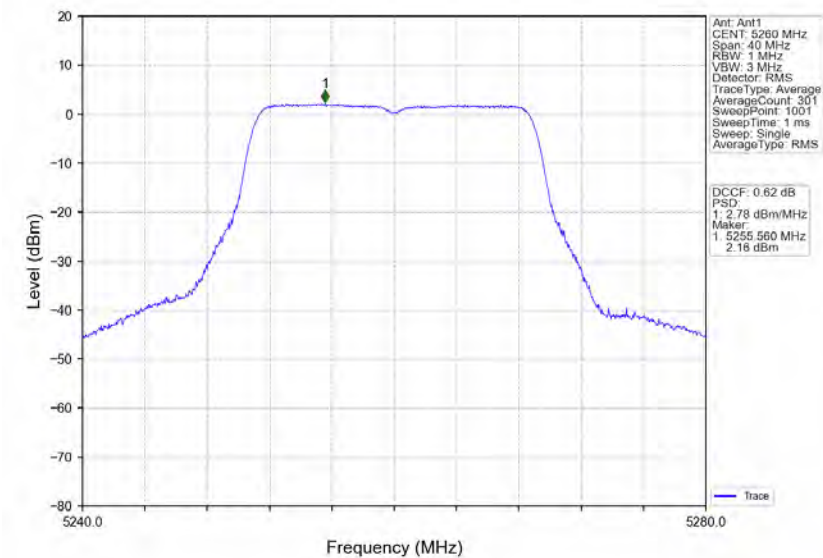
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



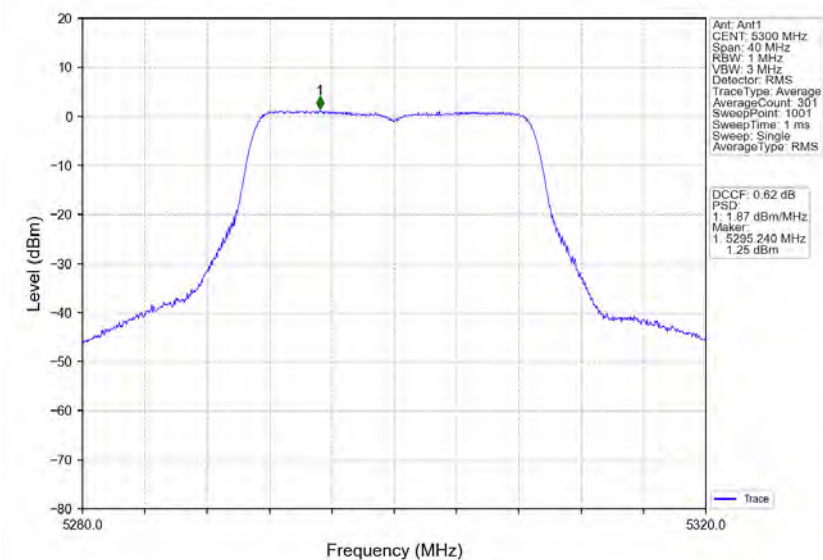
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



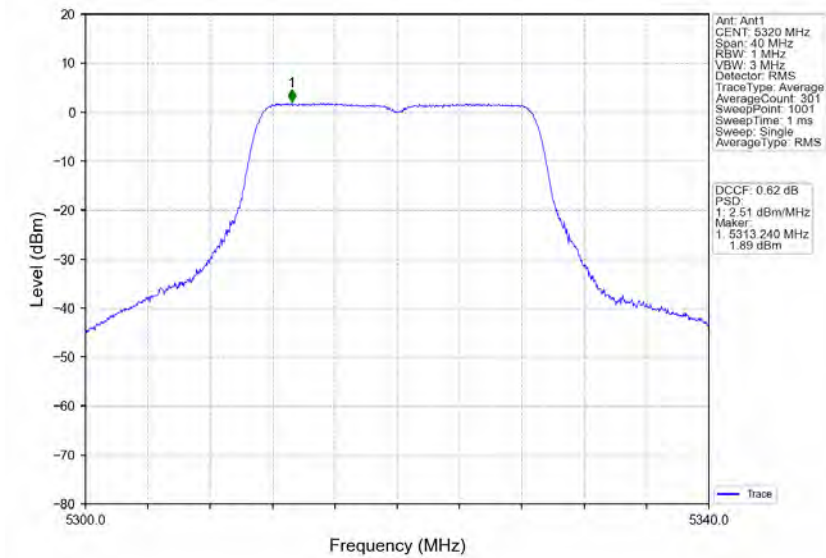
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



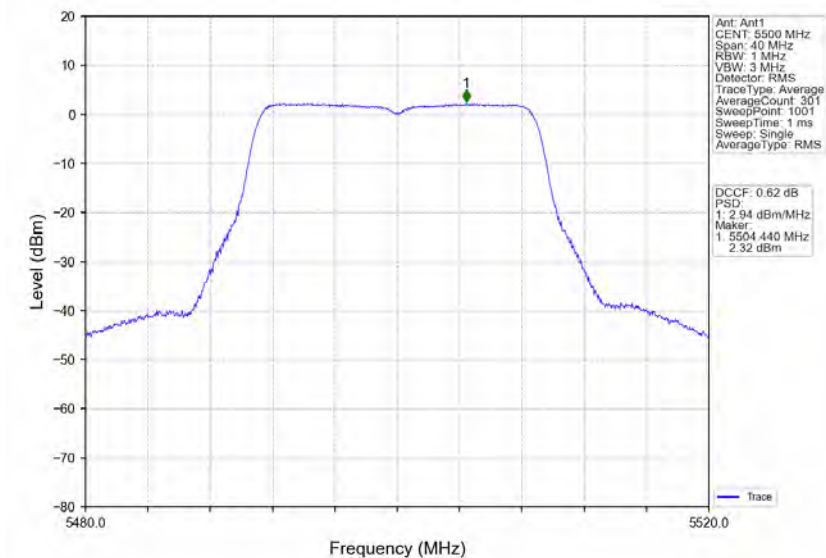
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



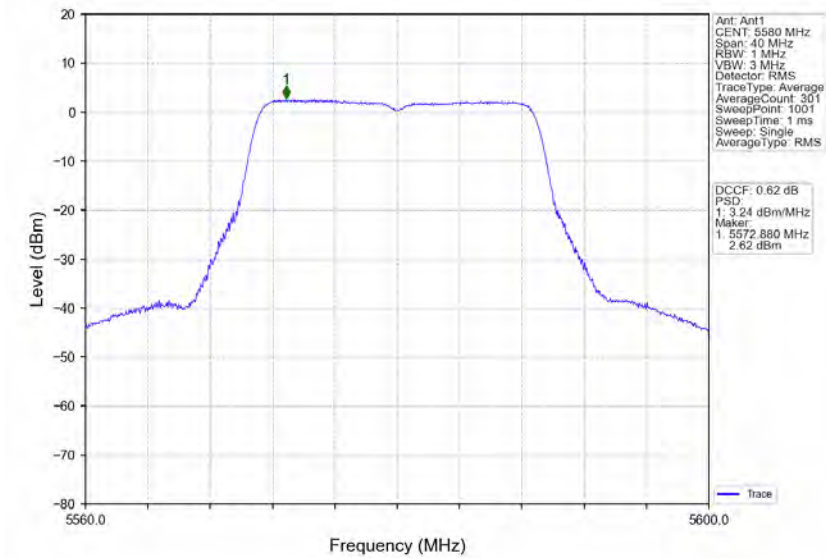
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



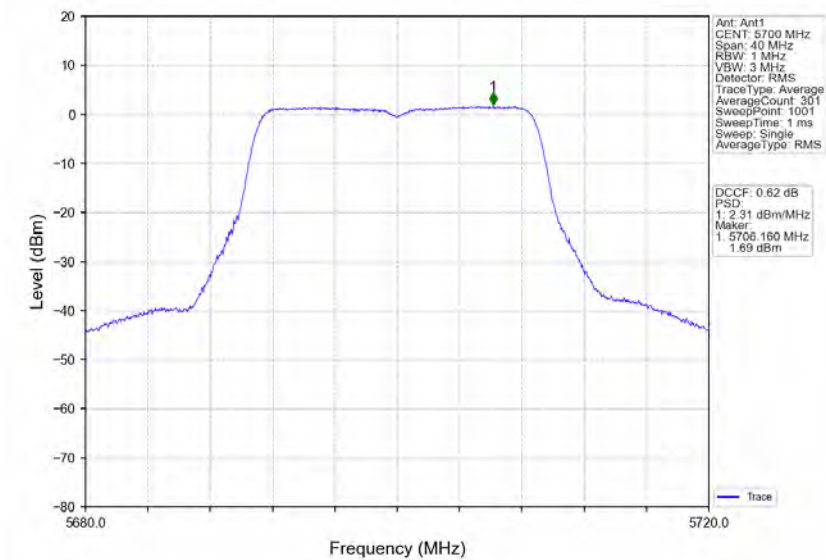
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



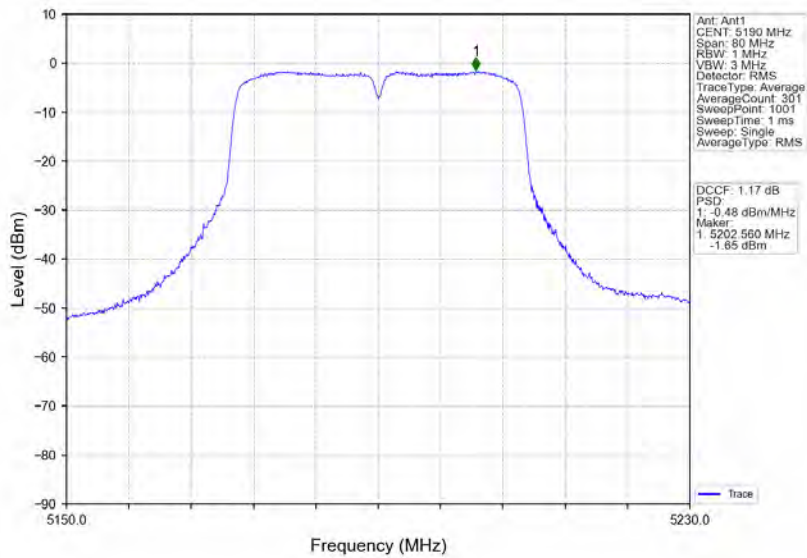
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



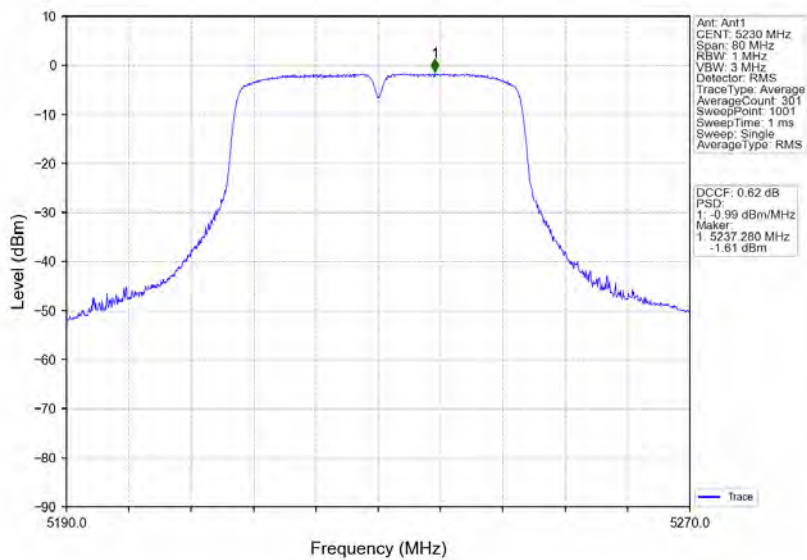
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



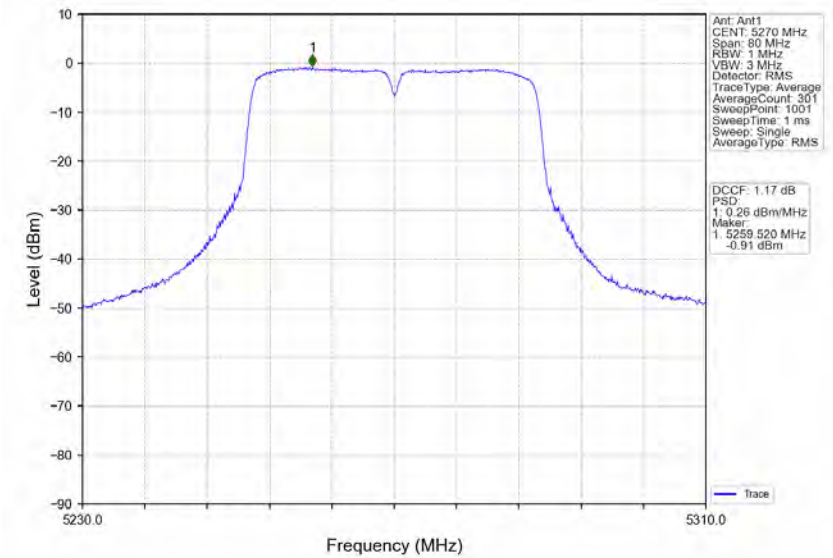
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



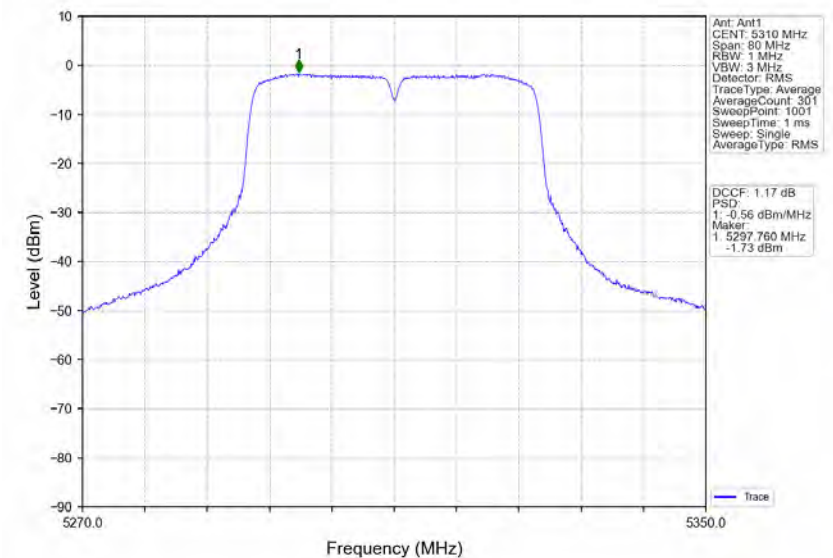
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



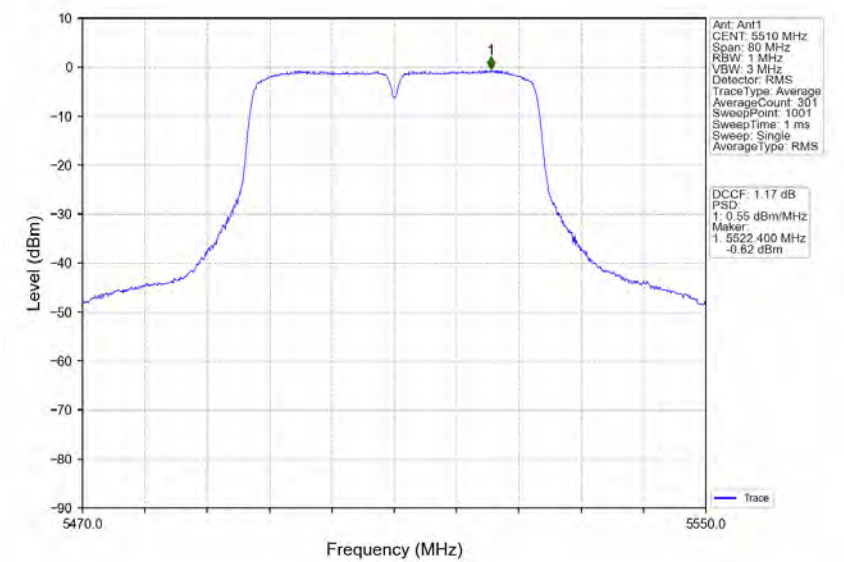
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



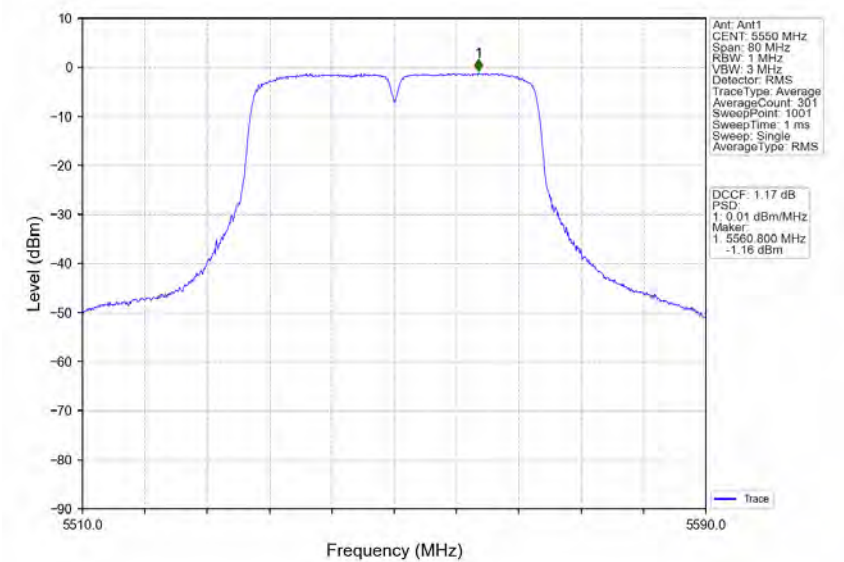
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



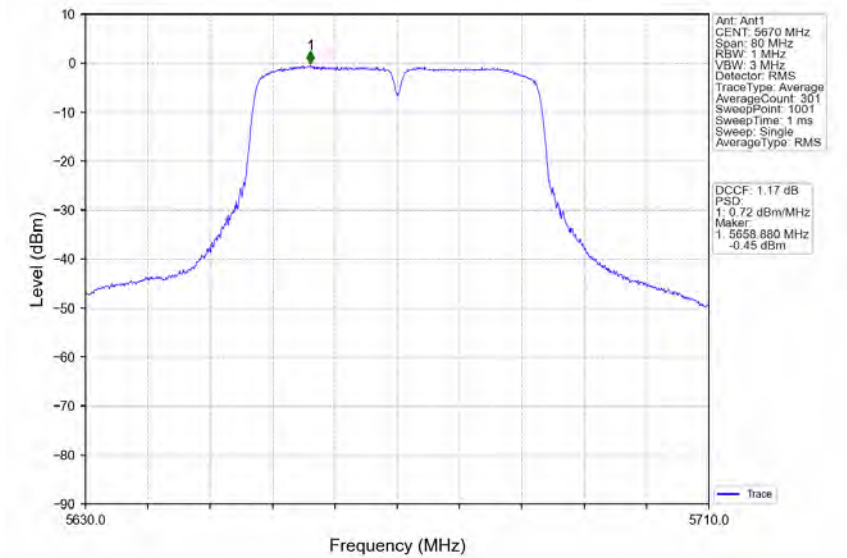
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



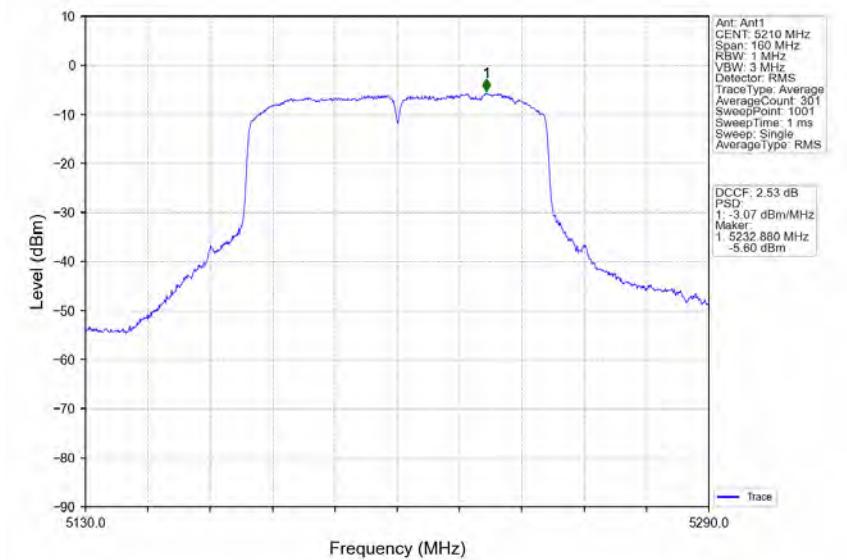
802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



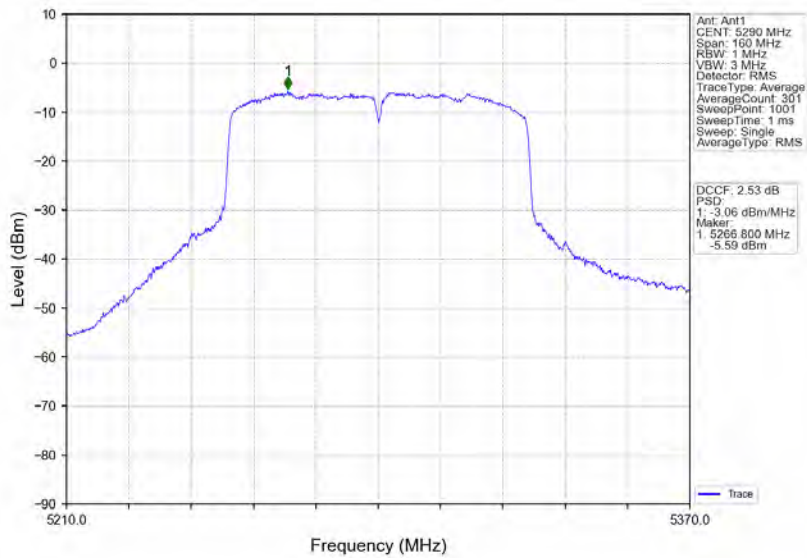
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



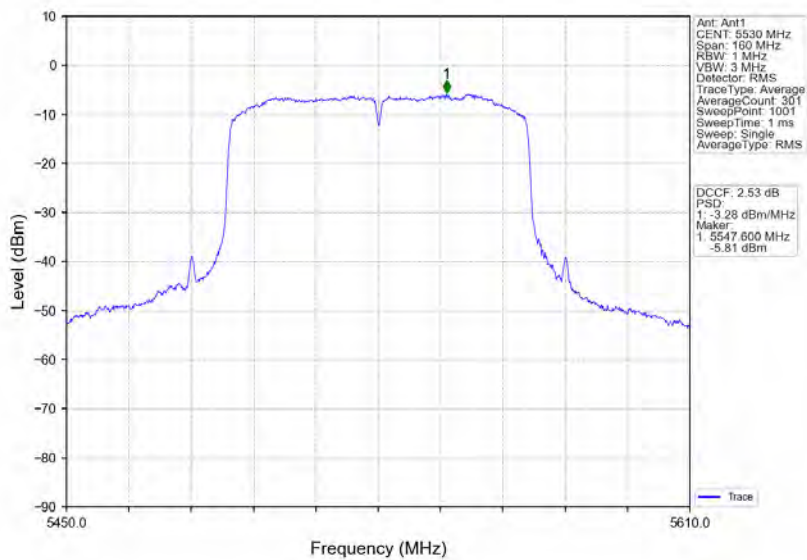
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



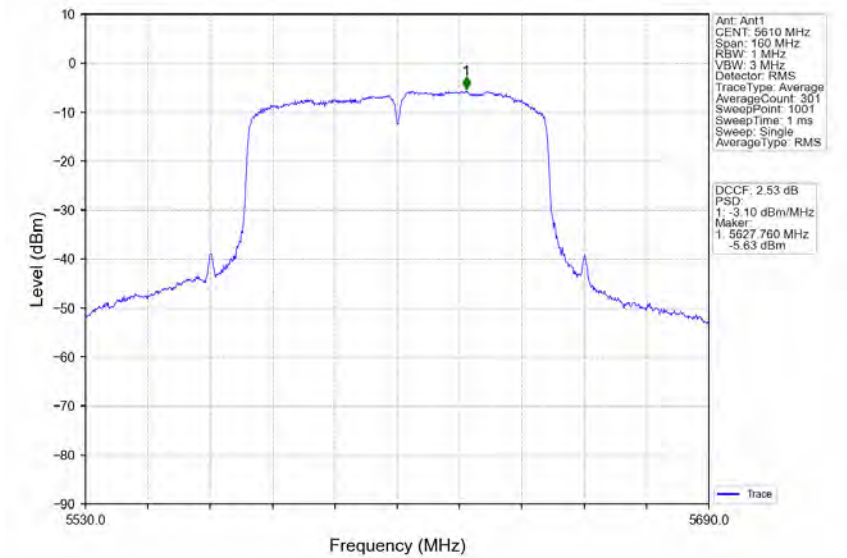
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 275 of 315

802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV





Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 276 of 315

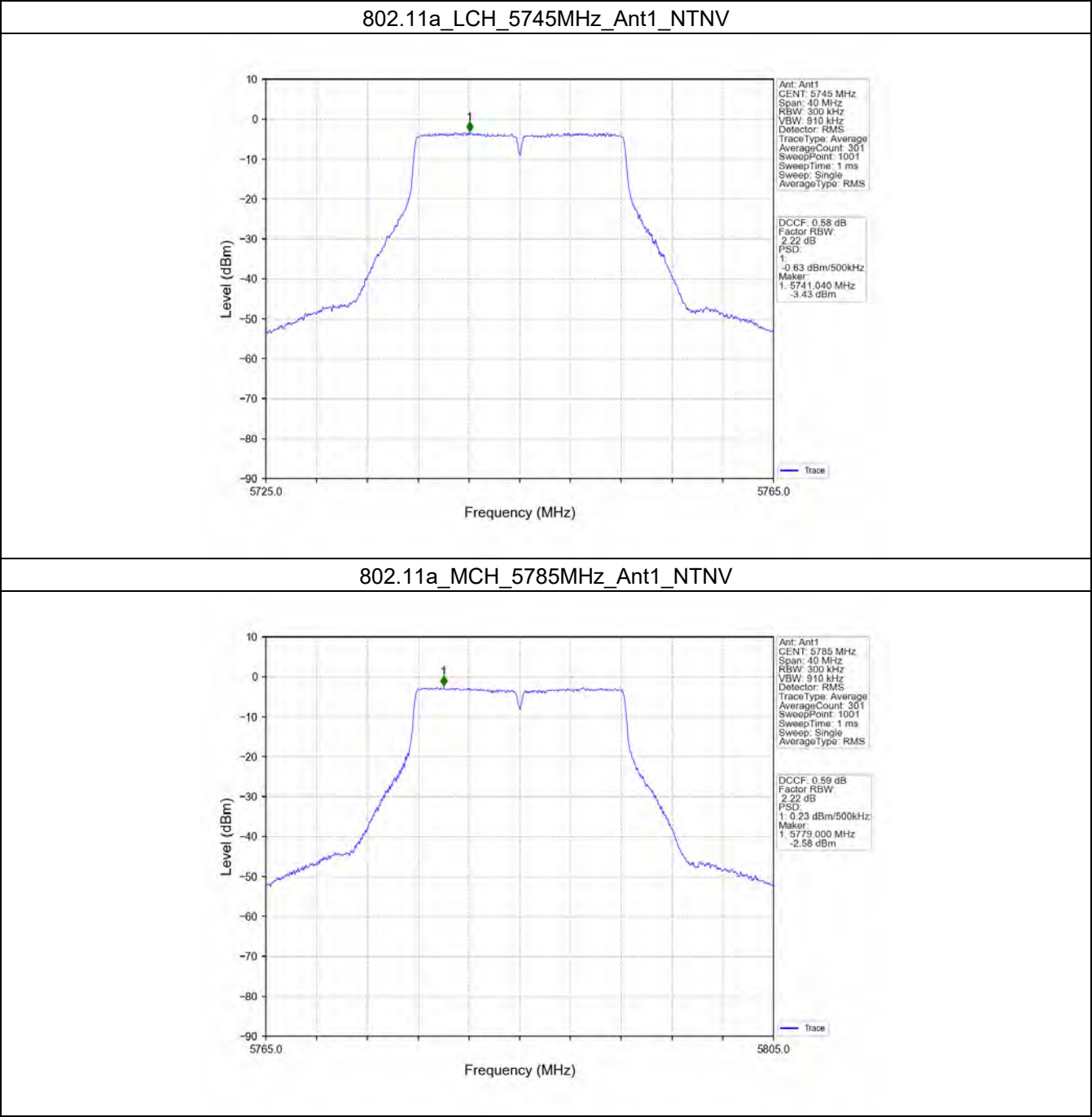
4.2 PSD-Band3

4.2.1 Test Result

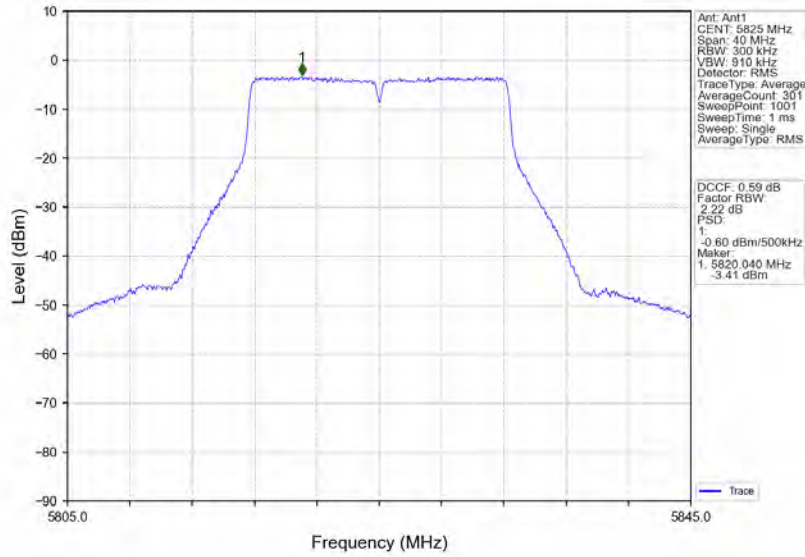
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-0.63	<=30	Pass
		5785	0.23	<=30	Pass
		5825	-0.60	<=30	Pass
802.11n (HT20)	SISO	5745	0.14	<=30	Pass
		5785	-0.42	<=30	Pass
		5825	-0.66	<=30	Pass
802.11n (HT40)	SISO	5755	-3.72	<=30	Pass
		5795	-2.97	<=30	Pass
802.11ac (VHT80)	SISO	5775	-5.99	<=30	Pass

Note1: Antenna Gain: Ant1: 1.00dBi;

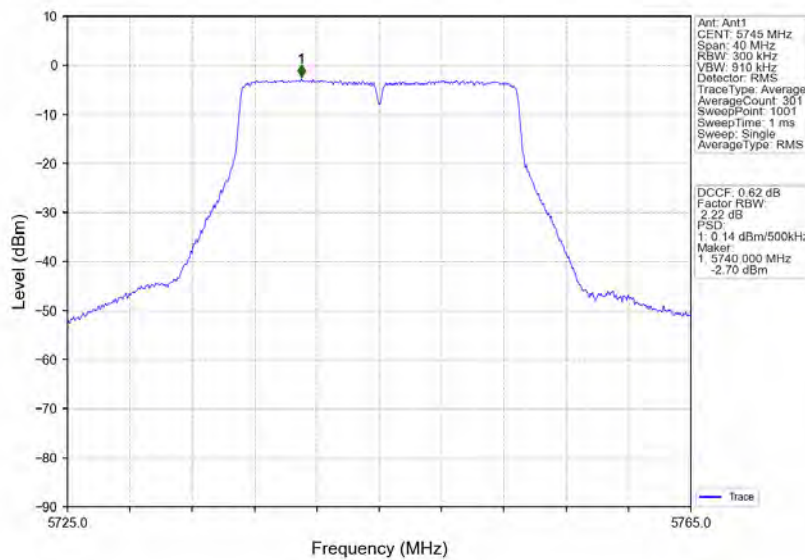
4.2.2 Test Graph



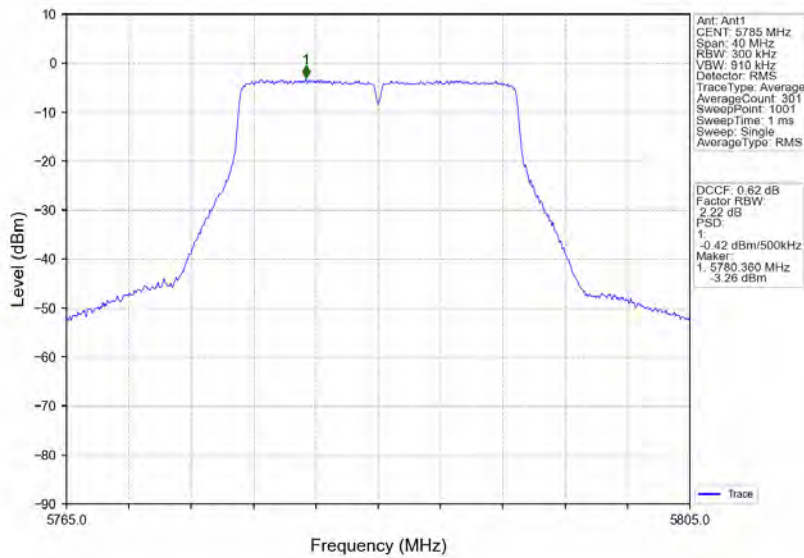
802.11a_HCH_5825MHz_Ant1_NTNV



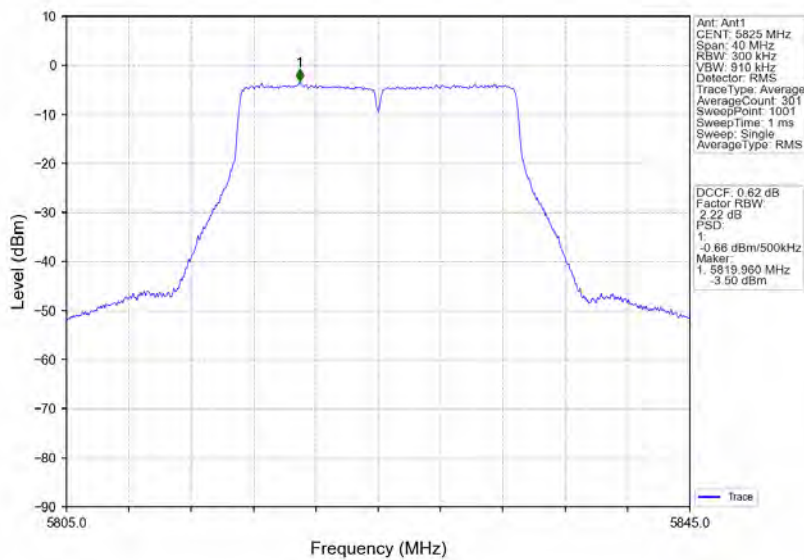
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



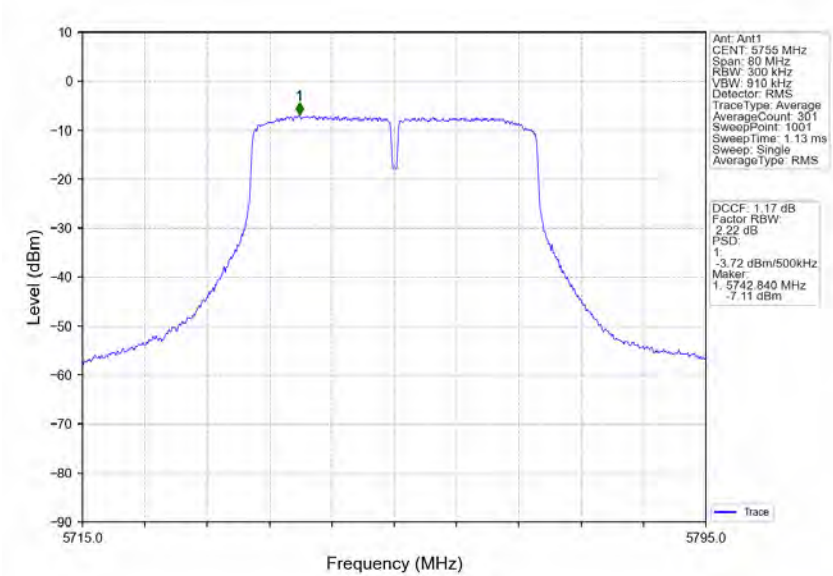
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



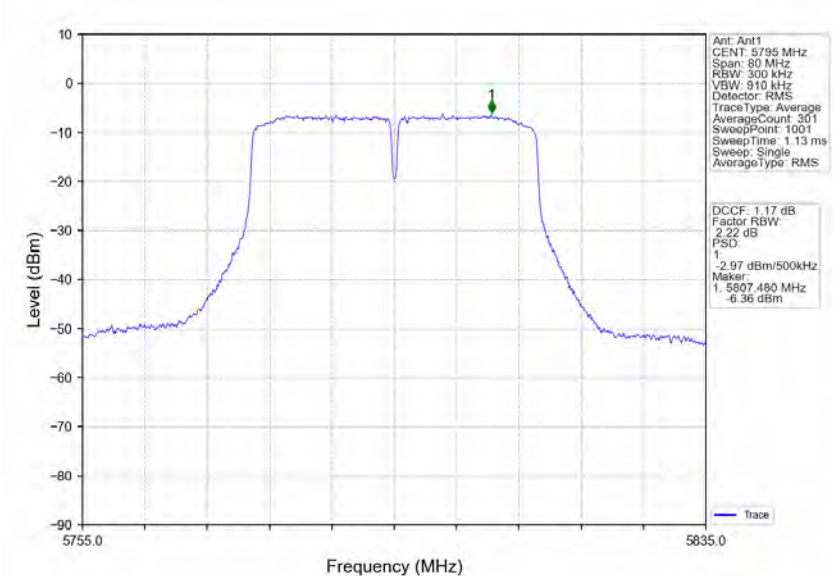
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



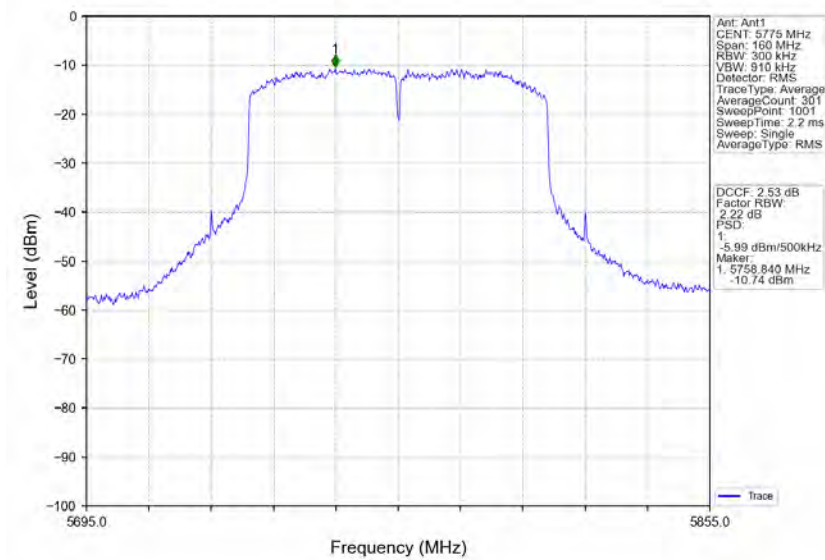
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 281 of 315

802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV





Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

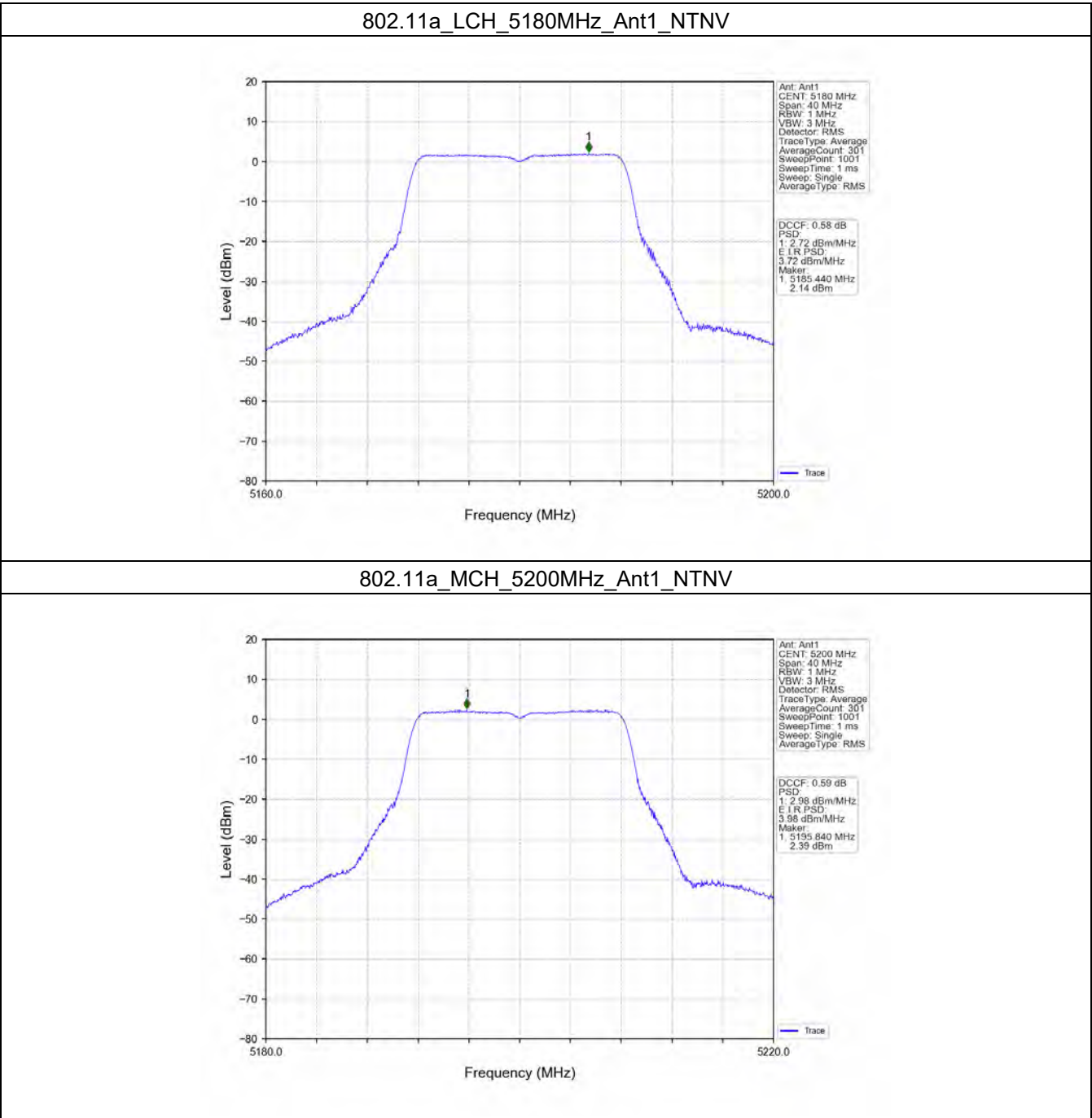
Page: 282 of 315

4.3 E.I.R.PSD

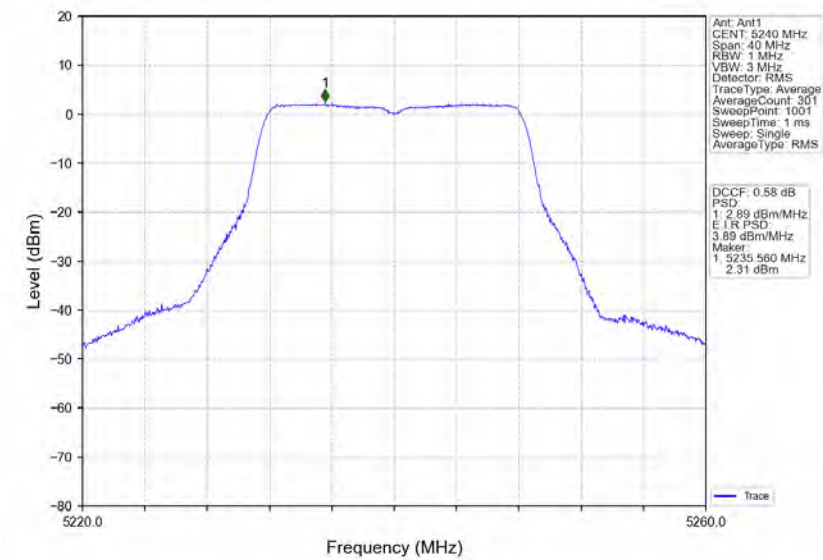
4.3.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum E.I.R.PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	3.72	<=10	Pass
		5200	3.98	<=10	Pass
		5240	3.89	<=10	Pass
802.11n (HT20)	SISO	5180	3.60	<=10	Pass
		5200	3.22	<=10	Pass
		5240	3.48	<=10	Pass
802.11n (HT40)	SISO	5190	0.52	<=10	Pass
		5230	0.01	<=10	Pass
802.11ac (VHT80)	SISO	5210	-2.07	<=10	Pass
Note1: Antenna Gain: Ant1: 1.00dBi; Note2: E.I.R.PSD = Measured PSD + Antenna Gain					

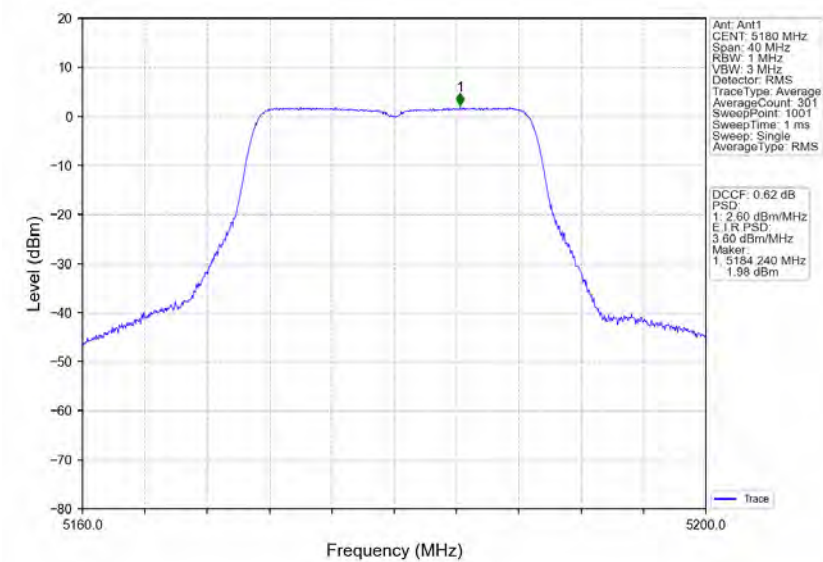
4.3.2 Test Graph



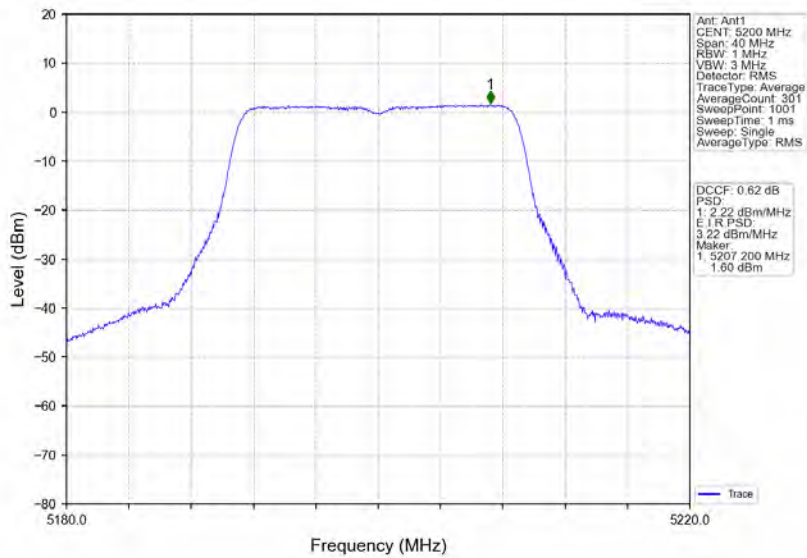
802.11a_HCH_5240MHz_Ant1_NTNV



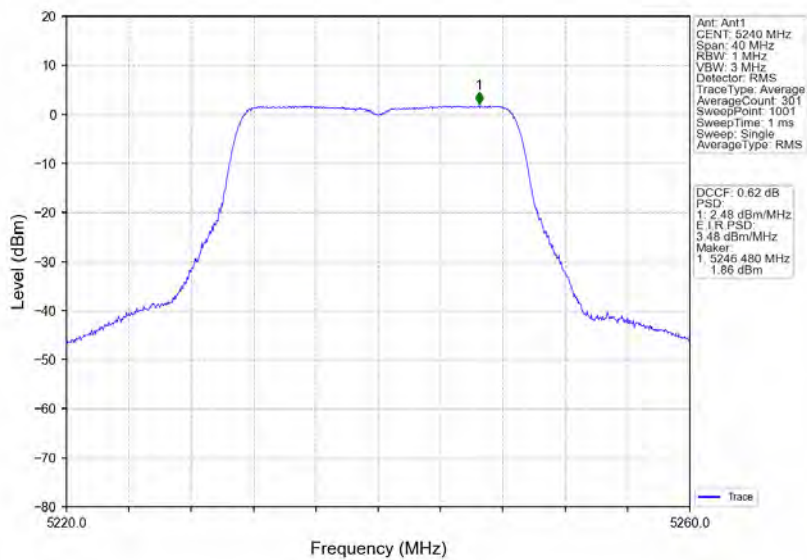
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



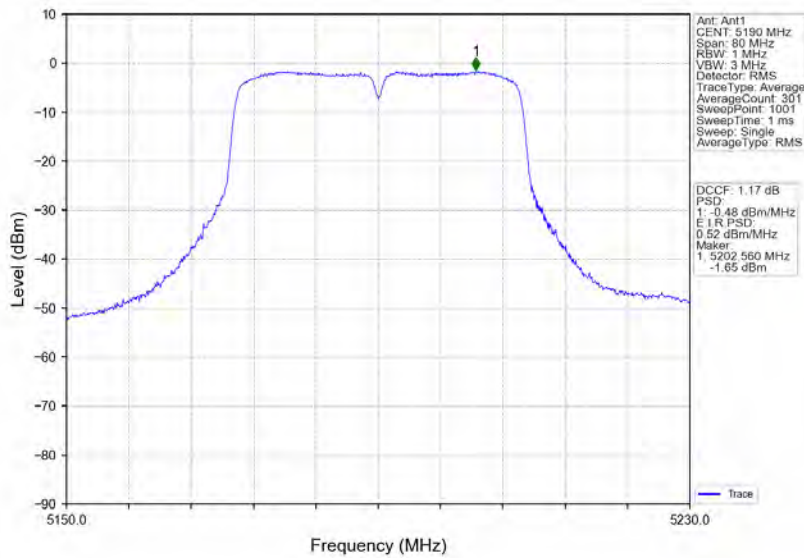
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

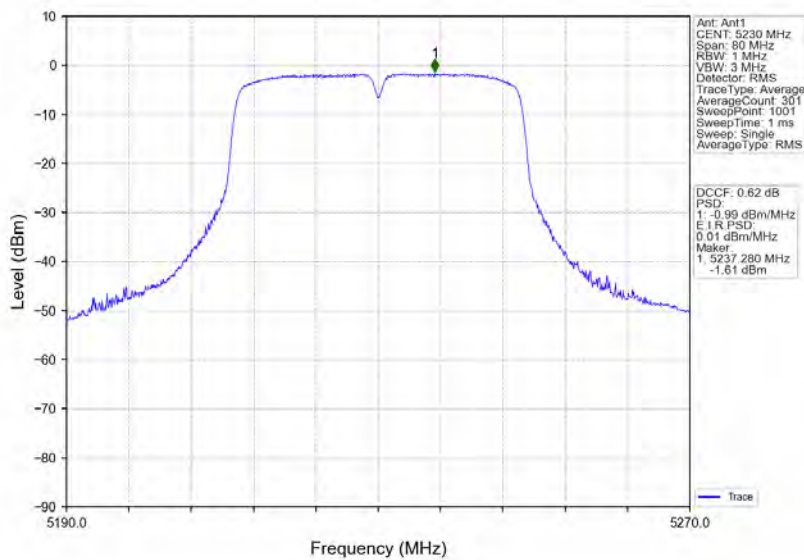
Report No.: KSCR231100205204

Page: 286 of 315

802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



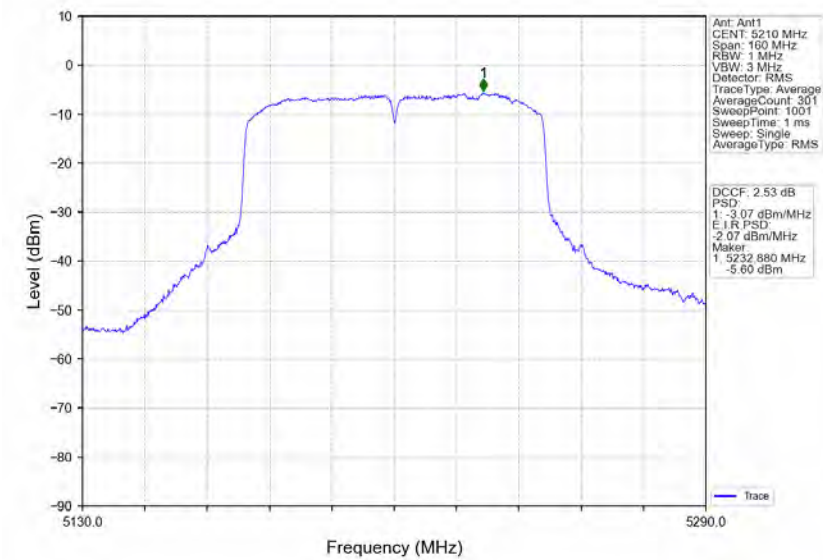
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 287 of 315

802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	3.23	5180.000	5150 to 5250	Pass
				3.8	5179.980	5150 to 5250	Pass
				4.37	5180.020	5150 to 5250	Pass
			-30	3.8	5180.000	5150 to 5250	Pass
			-20	3.8	5180.020	5150 to 5250	Pass
			-10	3.8	5180.000	5150 to 5250	Pass
			0	3.8	5179.980	5150 to 5250	Pass
			10	3.8	5180.020	5150 to 5250	Pass
			30	3.8	5180.000	5150 to 5250	Pass
			40	3.8	5179.980	5150 to 5250	Pass
			50	3.8	5180.020	5150 to 5250	Pass
		5200	20	3.23	5200.000	5150 to 5250	Pass
				3.8	5200.020	5150 to 5250	Pass
				4.37	5200.020	5150 to 5250	Pass
			-30	3.8	5199.980	5150 to 5250	Pass
			-20	3.8	5199.980	5150 to 5250	Pass
			-10	3.8	5200.000	5150 to 5250	Pass
			0	3.8	5200.000	5150 to 5250	Pass
			10	3.8	5200.000	5150 to 5250	Pass
			30	3.8	5200.020	5150 to 5250	Pass
			40	3.8	5200.020	5150 to 5250	Pass
			50	3.8	5200.060	5150 to 5250	Pass
		5240	20	3.23	5240.060	5150 to 5250	Pass
				3.8	5240.000	5150 to 5250	Pass
				4.37	5240.060	5150 to 5250	Pass
			-30	3.8	5240.060	5150 to 5250	Pass
			-20	3.8	5240.040	5150 to 5250	Pass
			-10	3.8	5240.040	5150 to 5250	Pass
			0	3.8	5239.960	5150 to 5250	Pass
			10	3.8	5240.020	5150 to 5250	Pass
			30	3.8	5239.980	5150 to 5250	Pass
			40	3.8	5240.020	5150 to 5250	Pass
			50	3.8	5240.040	5150 to 5250	Pass
		5260	20	3.23	5260.040	5250 to 5350	Pass

Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 289 of 315

				3.8	5259.940	5250 to 5350	Pass
				4.37	5259.960	5250 to 5350	Pass
			-30	3.8	5260.000	5250 to 5350	Pass
			-20	3.8	5260.000	5250 to 5350	Pass
			-10	3.8	5260.000	5250 to 5350	Pass
			0	3.8	5259.980	5250 to 5350	Pass
			10	3.8	5260.000	5250 to 5350	Pass
			30	3.8	5260.000	5250 to 5350	Pass
			40	3.8	5260.000	5250 to 5350	Pass
			50	3.8	5260.000	5250 to 5350	Pass
		5300	20	3.23	5299.960	5250 to 5350	Pass
				3.8	5299.980	5250 to 5350	Pass
				4.37	5299.960	5250 to 5350	Pass
			-30	3.8	5300.000	5250 to 5350	Pass
			-20	3.8	5300.020	5250 to 5350	Pass
			-10	3.8	5300.000	5250 to 5350	Pass
			0	3.8	5299.980	5250 to 5350	Pass
			10	3.8	5299.980	5250 to 5350	Pass
			30	3.8	5299.980	5250 to 5350	Pass
			40	3.8	5300.020	5250 to 5350	Pass
			50	3.8	5299.980	5250 to 5350	Pass
		5320	20	3.23	5319.980	5250 to 5350	Pass
				3.8	5320.000	5250 to 5350	Pass
				4.37	5319.980	5250 to 5350	Pass
			-30	3.8	5320.000	5250 to 5350	Pass
			-20	3.8	5320.020	5250 to 5350	Pass
			-10	3.8	5319.960	5250 to 5350	Pass
			0	3.8	5319.960	5250 to 5350	Pass
			10	3.8	5320.020	5250 to 5350	Pass
			30	3.8	5319.980	5250 to 5350	Pass
			40	3.8	5319.980	5250 to 5350	Pass
			50	3.8	5320.020	5250 to 5350	Pass
		5500	20	3.23	5499.960	5470 to 5725	Pass
				3.8	5499.980	5470 to 5725	Pass
				4.37	5499.960	5470 to 5725	Pass
			-30	3.8	5499.960	5470 to 5725	Pass
			-20	3.8	5500.000	5470 to 5725	Pass
			-10	3.8	5500.020	5470 to 5725	Pass
			0	3.8	5500.000	5470 to 5725	Pass
			10	3.8	5499.980	5470 to 5725	Pass
			30	3.8	5500.020	5470 to 5725	Pass
			40	3.8	5500.020	5470 to 5725	Pass
			50	3.8	5499.980	5470 to 5725	Pass
		5580	20	3.23	5579.960	5470 to 5725	Pass

Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 290 of 315

				3.8	5579.980	5470 to 5725	Pass
				4.37	5579.980	5470 to 5725	Pass
			-30	3.8	5579.960	5470 to 5725	Pass
			-20	3.8	5579.980	5470 to 5725	Pass
			-10	3.8	5579.960	5470 to 5725	Pass
			0	3.8	5580.040	5470 to 5725	Pass
			10	3.8	5579.960	5470 to 5725	Pass
			30	3.8	5579.980	5470 to 5725	Pass
			40	3.8	5579.980	5470 to 5725	Pass
			50	3.8	5580.020	5470 to 5725	Pass
		5700	20	3.23	5700.060	5470 to 5725	Pass
				3.8	5699.960	5470 to 5725	Pass
				4.37	5700.020	5470 to 5725	Pass
			-30	3.8	5700.060	5470 to 5725	Pass
			-20	3.8	5699.960	5470 to 5725	Pass
			-10	3.8	5700.040	5470 to 5725	Pass
			0	3.8	5699.980	5470 to 5725	Pass
			10	3.8	5699.940	5470 to 5725	Pass
			30	3.8	5700.000	5470 to 5725	Pass
			40	3.8	5699.960	5470 to 5725	Pass
			50	3.8	5700.020	5470 to 5725	Pass
		5745	20	3.23	5744.940	5725 to 5850	Pass
				3.8	5744.980	5725 to 5850	Pass
				4.37	5745.020	5725 to 5850	Pass
			-30	3.8	5744.980	5725 to 5850	Pass
			-20	3.8	5745.000	5725 to 5850	Pass
			-10	3.8	5744.960	5725 to 5850	Pass
			0	3.8	5745.000	5725 to 5850	Pass
			10	3.8	5744.920	5725 to 5850	Pass
			30	3.8	5745.000	5725 to 5850	Pass
			40	3.8	5745.000	5725 to 5850	Pass
			50	3.8	5745.020	5725 to 5850	Pass
		5785	20	3.23	5785.020	5725 to 5850	Pass
				3.8	5784.960	5725 to 5850	Pass
				4.37	5785.000	5725 to 5850	Pass
			-30	3.8	5785.020	5725 to 5850	Pass
			-20	3.8	5784.980	5725 to 5850	Pass
			-10	3.8	5785.000	5725 to 5850	Pass
			0	3.8	5784.980	5725 to 5850	Pass
			10	3.8	5785.000	5725 to 5850	Pass
			30	3.8	5784.960	5725 to 5850	Pass
			40	3.8	5785.040	5725 to 5850	Pass
			50	3.8	5785.040	5725 to 5850	Pass
		5825	20	3.23	5825.020	5725 to 5850	Pass

Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 291 of 315

				3.8	5825.040	5725 to 5850	Pass
				4.37	5825.000	5725 to 5850	Pass
			-30	3.8	5824.980	5725 to 5850	Pass
			-20	3.8	5824.980	5725 to 5850	Pass
			-10	3.8	5824.960	5725 to 5850	Pass
			0	3.8	5824.980	5725 to 5850	Pass
			10	3.8	5825.040	5725 to 5850	Pass
			30	3.8	5824.960	5725 to 5850	Pass
			40	3.8	5825.020	5725 to 5850	Pass
			50	3.8	5824.980	5725 to 5850	Pass
802.11n (HT20)	SISO	5180	20	3.23	5180.020	5150 to 5250	Pass
				3.8	5180.020	5150 to 5250	Pass
				4.37	5180.020	5150 to 5250	Pass
			-30	3.8	5179.960	5150 to 5250	Pass
			-20	3.8	5180.040	5150 to 5250	Pass
			-10	3.8	5180.020	5150 to 5250	Pass
			0	3.8	5180.060	5150 to 5250	Pass
			10	3.8	5180.020	5150 to 5250	Pass
			30	3.8	5180.040	5150 to 5250	Pass
			40	3.8	5180.040	5150 to 5250	Pass
			50	3.8	5180.000	5150 to 5250	Pass
		5200	20	3.23	5200.060	5150 to 5250	Pass
				3.8	5200.020	5150 to 5250	Pass
				4.37	5200.060	5150 to 5250	Pass
			-30	3.8	5200.040	5150 to 5250	Pass
			-20	3.8	5200.020	5150 to 5250	Pass
			-10	3.8	5200.060	5150 to 5250	Pass
			0	3.8	5200.000	5150 to 5250	Pass
			10	3.8	5200.040	5150 to 5250	Pass
			30	3.8	5200.040	5150 to 5250	Pass
			40	3.8	5200.020	5150 to 5250	Pass
			50	3.8	5199.980	5150 to 5250	Pass
		5240	20	3.23	5240.020	5150 to 5250	Pass
				3.8	5240.020	5150 to 5250	Pass
				4.37	5240.020	5150 to 5250	Pass
			-30	3.8	5240.040	5150 to 5250	Pass
			-20	3.8	5239.980	5150 to 5250	Pass
			-10	3.8	5240.000	5150 to 5250	Pass
			0	3.8	5239.960	5150 to 5250	Pass
			10	3.8	5240.080	5150 to 5250	Pass
			30	3.8	5240.000	5150 to 5250	Pass
			40	3.8	5240.040	5150 to 5250	Pass
			50	3.8	5240.020	5150 to 5250	Pass
		5260	20	3.23	5260.020	5250 to 5350	Pass

Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 292 of 315

				3.8	5259.980	5250 to 5350	Pass
				4.37	5259.980	5250 to 5350	Pass
			-30	3.8	5260.000	5250 to 5350	Pass
			-20	3.8	5260.020	5250 to 5350	Pass
			-10	3.8	5260.000	5250 to 5350	Pass
			0	3.8	5260.020	5250 to 5350	Pass
			10	3.8	5260.000	5250 to 5350	Pass
			30	3.8	5259.960	5250 to 5350	Pass
			40	3.8	5259.960	5250 to 5350	Pass
			50	3.8	5259.980	5250 to 5350	Pass
		5300	20	3.23	5300.020	5250 to 5350	Pass
				3.8	5300.020	5250 to 5350	Pass
				4.37	5299.940	5250 to 5350	Pass
			-30	3.8	5299.980	5250 to 5350	Pass
			-20	3.8	5300.000	5250 to 5350	Pass
			-10	3.8	5300.000	5250 to 5350	Pass
			0	3.8	5299.980	5250 to 5350	Pass
			10	3.8	5300.020	5250 to 5350	Pass
			30	3.8	5299.980	5250 to 5350	Pass
			40	3.8	5299.980	5250 to 5350	Pass
			50	3.8	5299.980	5250 to 5350	Pass
		5320	20	3.23	5319.940	5250 to 5350	Pass
				3.8	5320.000	5250 to 5350	Pass
				4.37	5319.960	5250 to 5350	Pass
			-30	3.8	5319.960	5250 to 5350	Pass
			-20	3.8	5320.020	5250 to 5350	Pass
			-10	3.8	5320.000	5250 to 5350	Pass
			0	3.8	5320.060	5250 to 5350	Pass
			10	3.8	5320.000	5250 to 5350	Pass
			30	3.8	5320.060	5250 to 5350	Pass
			40	3.8	5319.980	5250 to 5350	Pass
			50	3.8	5319.940	5250 to 5350	Pass
		5500	20	3.23	5500.040	5470 to 5725	Pass
				3.8	5499.980	5470 to 5725	Pass
				4.37	5499.980	5470 to 5725	Pass
			-30	3.8	5500.040	5470 to 5725	Pass
			-20	3.8	5500.060	5470 to 5725	Pass
			-10	3.8	5499.960	5470 to 5725	Pass
			0	3.8	5500.000	5470 to 5725	Pass
			10	3.8	5500.040	5470 to 5725	Pass
			30	3.8	5500.040	5470 to 5725	Pass
			40	3.8	5500.000	5470 to 5725	Pass
			50	3.8	5499.940	5470 to 5725	Pass
		5580	20	3.23	5579.980	5470 to 5725	Pass



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 293 of 315

				3.8	5580.000	5470 to 5725	Pass
				4.37	5580.000	5470 to 5725	Pass
			-30	3.8	5580.000	5470 to 5725	Pass
			-20	3.8	5579.940	5470 to 5725	Pass
			-10	3.8	5580.040	5470 to 5725	Pass
			0	3.8	5580.000	5470 to 5725	Pass
			10	3.8	5580.040	5470 to 5725	Pass
			30	3.8	5579.960	5470 to 5725	Pass
			40	3.8	5579.960	5470 to 5725	Pass
			50	3.8	5580.000	5470 to 5725	Pass
		5700	20	3.23	5700.020	5470 to 5725	Pass
				3.8	5700.000	5470 to 5725	Pass
				4.37	5700.040	5470 to 5725	Pass
			-30	3.8	5699.980	5470 to 5725	Pass
			-20	3.8	5700.000	5470 to 5725	Pass
			-10	3.8	5699.920	5470 to 5725	Pass
			0	3.8	5699.980	5470 to 5725	Pass
			10	3.8	5700.020	5470 to 5725	Pass
			30	3.8	5700.000	5470 to 5725	Pass
			40	3.8	5700.020	5470 to 5725	Pass
			50	3.8	5699.980	5470 to 5725	Pass
		5745	20	3.23	5744.960	5725 to 5850	Pass
				3.8	5745.000	5725 to 5850	Pass
				4.37	5744.920	5725 to 5850	Pass
			-30	3.8	5745.040	5725 to 5850	Pass
			-20	3.8	5745.000	5725 to 5850	Pass
			-10	3.8	5745.060	5725 to 5850	Pass
			0	3.8	5745.000	5725 to 5850	Pass
			10	3.8	5744.980	5725 to 5850	Pass
			30	3.8	5744.940	5725 to 5850	Pass
			40	3.8	5745.020	5725 to 5850	Pass
			50	3.8	5745.000	5725 to 5850	Pass
		5785	20	3.23	5785.040	5725 to 5850	Pass
				3.8	5784.980	5725 to 5850	Pass
				4.37	5784.960	5725 to 5850	Pass
			-30	3.8	5785.020	5725 to 5850	Pass
			-20	3.8	5784.980	5725 to 5850	Pass
			-10	3.8	5785.040	5725 to 5850	Pass
			0	3.8	5785.040	5725 to 5850	Pass
			10	3.8	5785.000	5725 to 5850	Pass
			30	3.8	5785.060	5725 to 5850	Pass
			40	3.8	5784.980	5725 to 5850	Pass
			50	3.8	5784.960	5725 to 5850	Pass
		5825	20	3.23	5825.020	5725 to 5850	Pass

Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 294 of 315

				3.8	5825.000	5725 to 5850	Pass
				4.37	5825.020	5725 to 5850	Pass
			-30	3.8	5825.020	5725 to 5850	Pass
			-20	3.8	5824.960	5725 to 5850	Pass
			-10	3.8	5825.040	5725 to 5850	Pass
			0	3.8	5825.000	5725 to 5850	Pass
			10	3.8	5824.980	5725 to 5850	Pass
			30	3.8	5825.000	5725 to 5850	Pass
			40	3.8	5825.000	5725 to 5850	Pass
			50	3.8	5825.000	5725 to 5850	Pass
802.11n (HT40)	SISO	5190	20	3.23	5190.040	5150 to 5250	Pass
				3.8	5190.120	5150 to 5250	Pass
				4.37	5190.000	5150 to 5250	Pass
			-30	3.8	5190.080	5150 to 5250	Pass
			-20	3.8	5190.080	5150 to 5250	Pass
			-10	3.8	5190.080	5150 to 5250	Pass
			0	3.8	5190.080	5150 to 5250	Pass
			10	3.8	5190.040	5150 to 5250	Pass
			30	3.8	5190.120	5150 to 5250	Pass
			40	3.8	5190.080	5150 to 5250	Pass
			50	3.8	5190.120	5150 to 5250	Pass
		5230	20	3.23	5230.080	5150 to 5250	Pass
				3.8	5230.080	5150 to 5250	Pass
				4.37	5230.080	5150 to 5250	Pass
			-30	3.8	5230.040	5150 to 5250	Pass
			-20	3.8	5230.080	5150 to 5250	Pass
			-10	3.8	5230.120	5150 to 5250	Pass
			0	3.8	5230.080	5150 to 5250	Pass
			10	3.8	5230.080	5150 to 5250	Pass
			30	3.8	5230.120	5150 to 5250	Pass
			40	3.8	5230.040	5150 to 5250	Pass
			50	3.8	5230.080	5150 to 5250	Pass
		5270	20	3.23	5270.000	5250 to 5350	Pass
				3.8	5270.040	5250 to 5350	Pass
				4.37	5269.960	5250 to 5350	Pass
			-30	3.8	5270.040	5250 to 5350	Pass
			-20	3.8	5270.000	5250 to 5350	Pass
			-10	3.8	5270.000	5250 to 5350	Pass
			0	3.8	5270.040	5250 to 5350	Pass
			10	3.8	5270.000	5250 to 5350	Pass
			30	3.8	5269.920	5250 to 5350	Pass
			40	3.8	5269.960	5250 to 5350	Pass
			50	3.8	5270.000	5250 to 5350	Pass
		5310	20	3.23	5310.000	5250 to 5350	Pass

Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 295 of 315

				3.8	5310.080	5250 to 5350	Pass
				4.37	5310.080	5250 to 5350	Pass
			-30	3.8	5310.120	5250 to 5350	Pass
			-20	3.8	5310.080	5250 to 5350	Pass
			-10	3.8	5310.040	5250 to 5350	Pass
			0	3.8	5310.000	5250 to 5350	Pass
			10	3.8	5310.080	5250 to 5350	Pass
			30	3.8	5310.120	5250 to 5350	Pass
			40	3.8	5310.000	5250 to 5350	Pass
			50	3.8	5310.000	5250 to 5350	Pass
		5510	20	3.23	5510.040	5470 to 5725	Pass
				3.8	5510.040	5470 to 5725	Pass
				4.37	5510.120	5470 to 5725	Pass
			-30	3.8	5510.000	5470 to 5725	Pass
			-20	3.8	5510.040	5470 to 5725	Pass
			-10	3.8	5509.960	5470 to 5725	Pass
			0	3.8	5510.000	5470 to 5725	Pass
			10	3.8	5510.040	5470 to 5725	Pass
			30	3.8	5510.040	5470 to 5725	Pass
			40	3.8	5510.000	5470 to 5725	Pass
			50	3.8	5510.040	5470 to 5725	Pass
		5550	20	3.23	5550.040	5470 to 5725	Pass
				3.8	5550.000	5470 to 5725	Pass
				4.37	5550.080	5470 to 5725	Pass
			-30	3.8	5550.080	5470 to 5725	Pass
			-20	3.8	5550.080	5470 to 5725	Pass
			-10	3.8	5550.080	5470 to 5725	Pass
			0	3.8	5550.040	5470 to 5725	Pass
			10	3.8	5549.960	5470 to 5725	Pass
			30	3.8	5550.080	5470 to 5725	Pass
			40	3.8	5550.080	5470 to 5725	Pass
			50	3.8	5550.040	5470 to 5725	Pass
		5670	20	3.23	5670.040	5470 to 5725	Pass
				3.8	5670.040	5470 to 5725	Pass
				4.37	5670.040	5470 to 5725	Pass
			-30	3.8	5670.000	5470 to 5725	Pass
			-20	3.8	5670.000	5470 to 5725	Pass
			-10	3.8	5669.920	5470 to 5725	Pass
			0	3.8	5669.960	5470 to 5725	Pass
			10	3.8	5670.000	5470 to 5725	Pass
			30	3.8	5669.960	5470 to 5725	Pass
			40	3.8	5670.080	5470 to 5725	Pass
			50	3.8	5670.000	5470 to 5725	Pass
		5755	20	3.23	5755.040	5725 to 5850	Pass



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 296 of 315

				3.8	5755.000	5725 to 5850	Pass
				4.37	5755.040	5725 to 5850	Pass
			-30	3.8	5755.040	5725 to 5850	Pass
			-20	3.8	5754.960	5725 to 5850	Pass
			-10	3.8	5755.040	5725 to 5850	Pass
			0	3.8	5755.000	5725 to 5850	Pass
			10	3.8	5755.120	5725 to 5850	Pass
			30	3.8	5755.040	5725 to 5850	Pass
			40	3.8	5755.000	5725 to 5850	Pass
			50	3.8	5755.040	5725 to 5850	Pass
		5795	20	3.23	5795.040	5725 to 5850	Pass
				3.8	5795.080	5725 to 5850	Pass
				4.37	5795.000	5725 to 5850	Pass
			-30	3.8	5795.000	5725 to 5850	Pass
			-20	3.8	5795.120	5725 to 5850	Pass
			-10	3.8	5794.960	5725 to 5850	Pass
			0	3.8	5795.040	5725 to 5850	Pass
			10	3.8	5795.120	5725 to 5850	Pass
			30	3.8	5795.040	5725 to 5850	Pass
			40	3.8	5795.080	5725 to 5850	Pass
			50	3.8	5795.080	5725 to 5850	Pass
802.11ac (VHT80)	SISO	5210	20	3.23	5210.075	5150 to 5250	Pass
				3.8	5210.075	5150 to 5250	Pass
				4.37	5210.075	5150 to 5250	Pass
			-30	3.8	5210.075	5150 to 5250	Pass
			-20	3.8	5210.075	5150 to 5250	Pass
			-10	3.8	5210.075	5150 to 5250	Pass
			0	3.8	5210.075	5150 to 5250	Pass
			10	3.8	5210.075	5150 to 5250	Pass
			30	3.8	5210.075	5150 to 5250	Pass
			40	3.8	5210.075	5150 to 5250	Pass
			50	3.8	5210.075	5150 to 5250	Pass
		5290	20	3.23	5290.000	5250 to 5350	Pass
				3.8	5290.075	5250 to 5350	Pass
				4.37	5290.075	5250 to 5350	Pass
			-30	3.8	5290.000	5250 to 5350	Pass
			-20	3.8	5290.075	5250 to 5350	Pass
			-10	3.8	5290.000	5250 to 5350	Pass
			0	3.8	5290.075	5250 to 5350	Pass
			10	3.8	5290.000	5250 to 5350	Pass
			30	3.8	5290.000	5250 to 5350	Pass
			40	3.8	5290.000	5250 to 5350	Pass
			50	3.8	5290.000	5250 to 5350	Pass
		5530	20	3.23	5530.075	5470 to 5725	Pass



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 297 of 315

				3.8	5530.075	5470 to 5725	Pass
				4.37	5530.075	5470 to 5725	Pass
			-30	3.8	5530.075	5470 to 5725	Pass
			-20	3.8	5530.075	5470 to 5725	Pass
			-10	3.8	5530.000	5470 to 5725	Pass
			0	3.8	5530.075	5470 to 5725	Pass
			10	3.8	5530.075	5470 to 5725	Pass
			30	3.8	5530.075	5470 to 5725	Pass
			40	3.8	5530.075	5470 to 5725	Pass
			50	3.8	5530.075	5470 to 5725	Pass
		5610	20	3.23	5610.075	5470 to 5725	Pass
				3.8	5610.075	5470 to 5725	Pass
				4.37	5610.075	5470 to 5725	Pass
			-30	3.8	5610.075	5470 to 5725	Pass
			-20	3.8	5610.075	5470 to 5725	Pass
			-10	3.8	5610.075	5470 to 5725	Pass
			0	3.8	5610.075	5470 to 5725	Pass
			10	3.8	5610.075	5470 to 5725	Pass
			30	3.8	5610.075	5470 to 5725	Pass
			40	3.8	5610.075	5470 to 5725	Pass
			50	3.8	5610.000	5470 to 5725	Pass
		5775	20	3.23	5775.000	5725 to 5850	Pass
				3.8	5775.000	5725 to 5850	Pass
				4.37	5775.000	5725 to 5850	Pass
			-30	3.8	5775.075	5725 to 5850	Pass
			-20	3.8	5775.000	5725 to 5850	Pass
			-10	3.8	5775.000	5725 to 5850	Pass
			0	3.8	5775.000	5725 to 5850	Pass
			10	3.8	5775.075	5725 to 5850	Pass
			30	3.8	5775.075	5725 to 5850	Pass
			40	3.8	5775.075	5725 to 5850	Pass
			50	3.8	5775.075	5725 to 5850	Pass



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 298 of 315

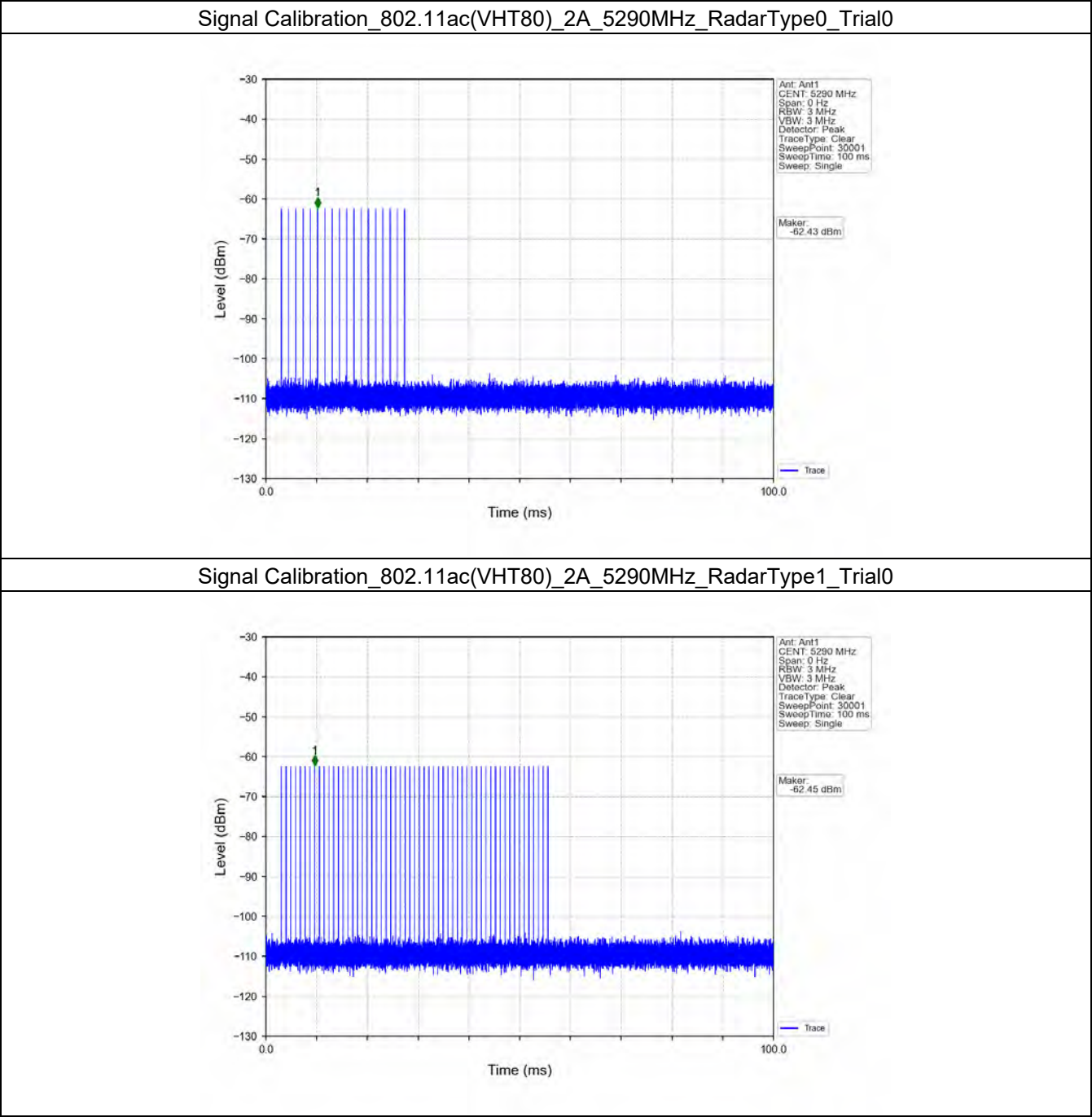
6. Signal Calibration

6.1 SC

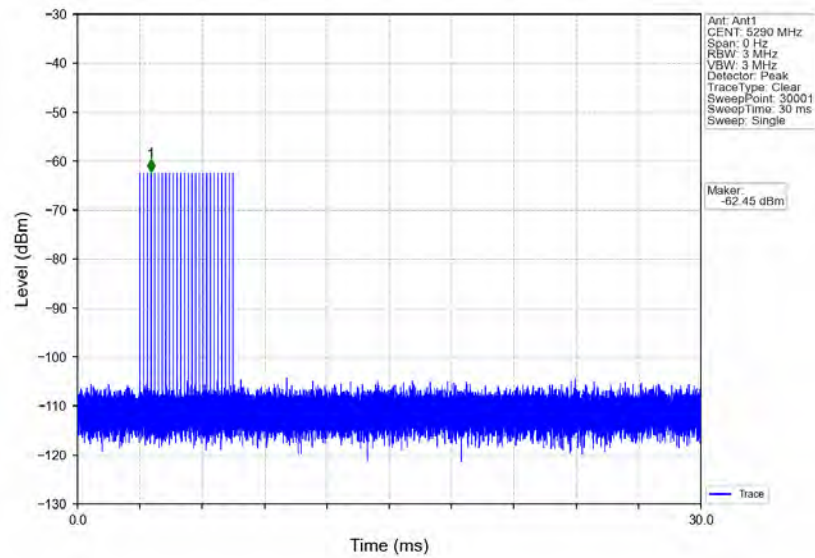
6.1.1 Test Result

Band: 2A						
Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal		Signal Calibration	
			Type	Trial Id	Result	Limit
802.11ac (VHT80)	80	5290	0	0	Refer To Test Graph	Pass
			1	0	Refer To Test Graph	Pass
			2	0	Refer To Test Graph	Pass
			3	0	Refer To Test Graph	Pass
			4	0	Refer To Test Graph	Pass
			5	0	Refer To Test Graph	Pass
			6	0	Refer To Test Graph	Pass

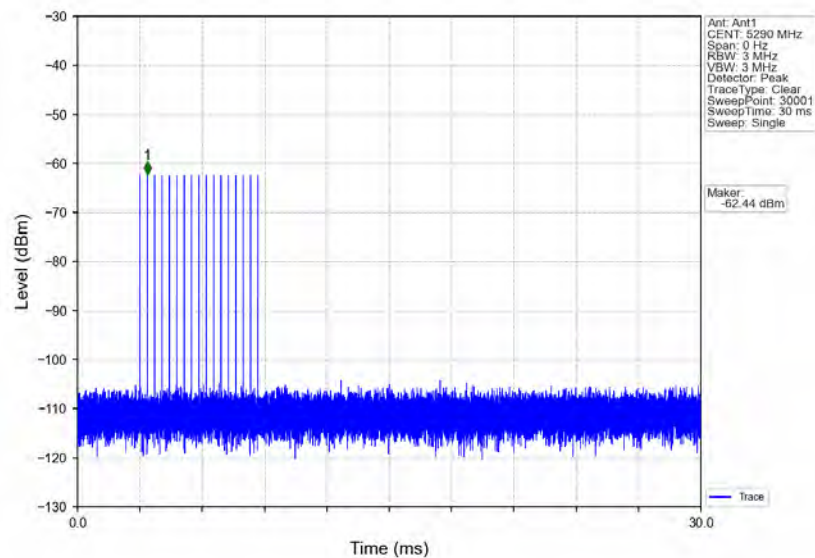
6.1.2 Test Graph



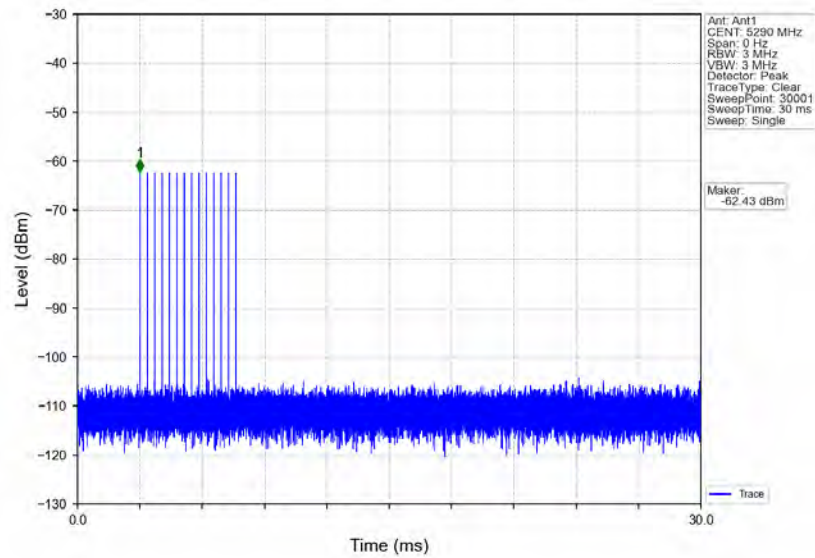
Signal Calibration_802.11ac(VHT80)_2A_5290MHz_RadarType2_Trial0



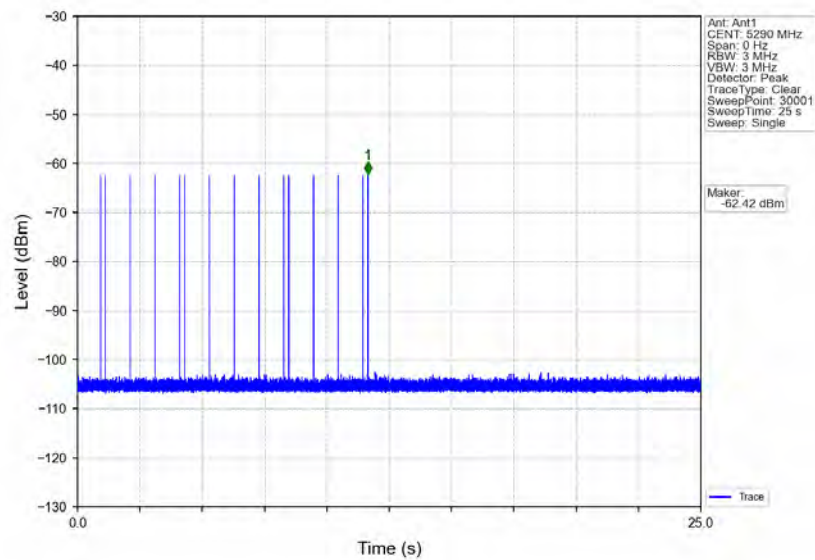
Signal Calibration_802.11ac(VHT80)_2A_5290MHz_RadarType3_Trial0



Signal Calibration_802.11ac(VHT80)_2A_5290MHz_RadarType4_Trial0



Signal Calibration_802.11ac(VHT80)_2A_5290MHz_RadarType5_Trial0



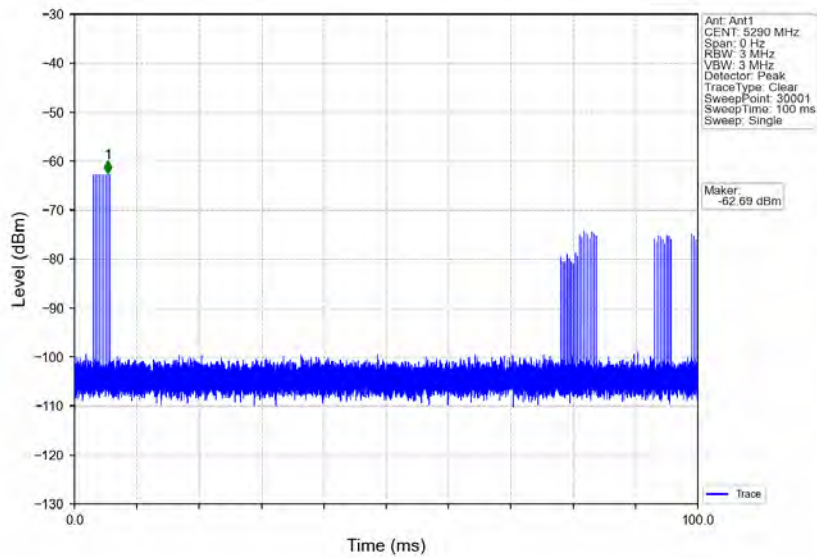
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 302 of 315

Signal Calibration_802.11ac(VHT80)_2A_5290MHz_RadarType6_Trial0





Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

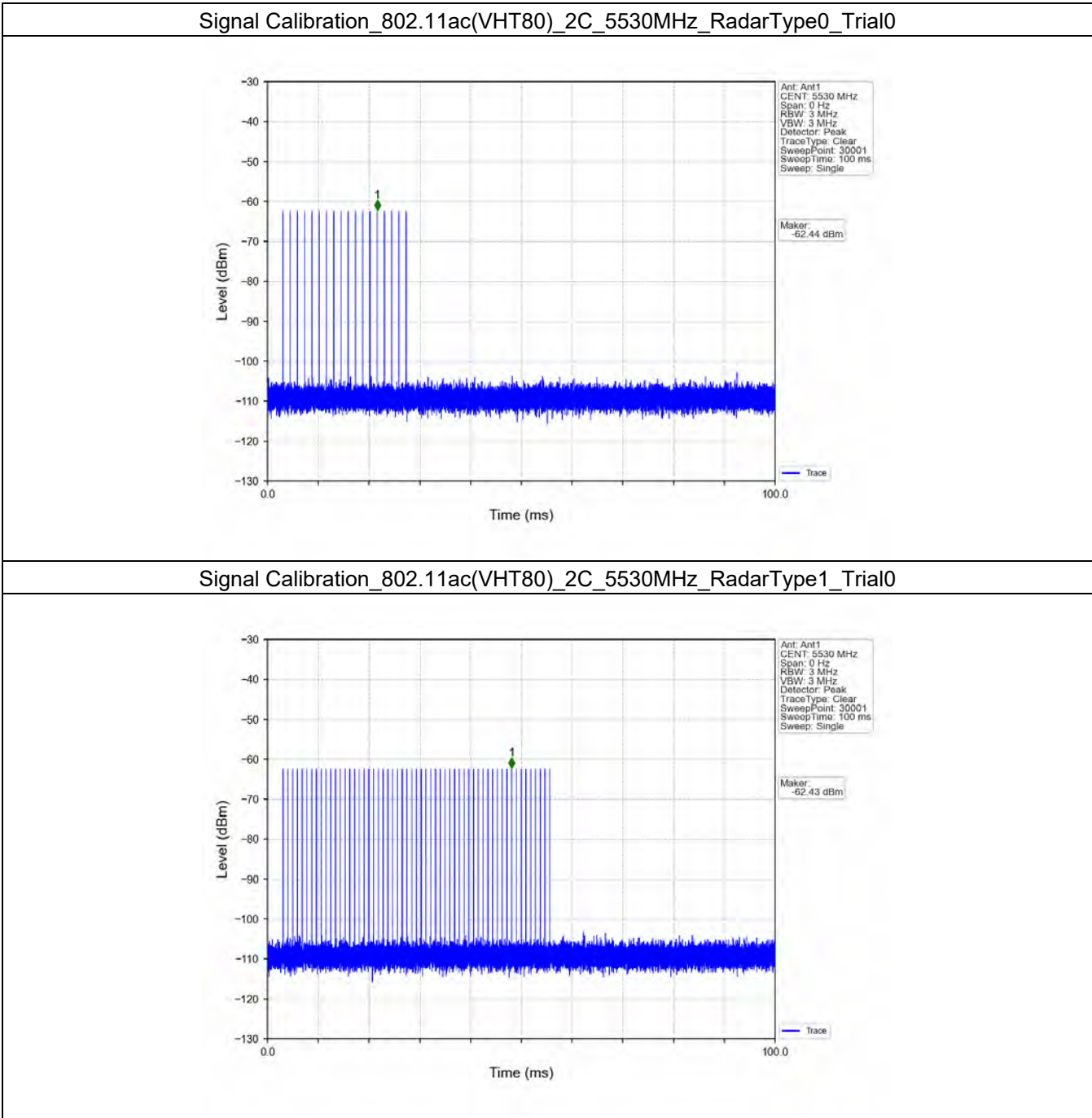
Page: 303 of 315

6.2 SC

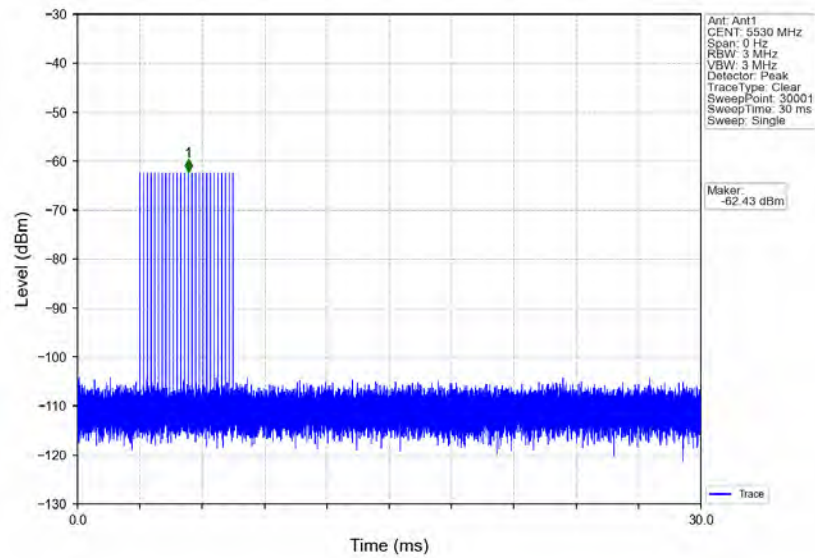
6.2.1 Test Result

Band: 2C							
Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal		Signal Calibration		Verdict
			Type	Trial Id	Result	Limit	
802.11ac (VHT80)	80	5530	0	0	Refer To Test Graph		Pass
			1	0	Refer To Test Graph		Pass
			2	0	Refer To Test Graph		Pass
			3	0	Refer To Test Graph		Pass
			4	0	Refer To Test Graph		Pass
			5	0	Refer To Test Graph		Pass
			6	0	Refer To Test Graph		Pass

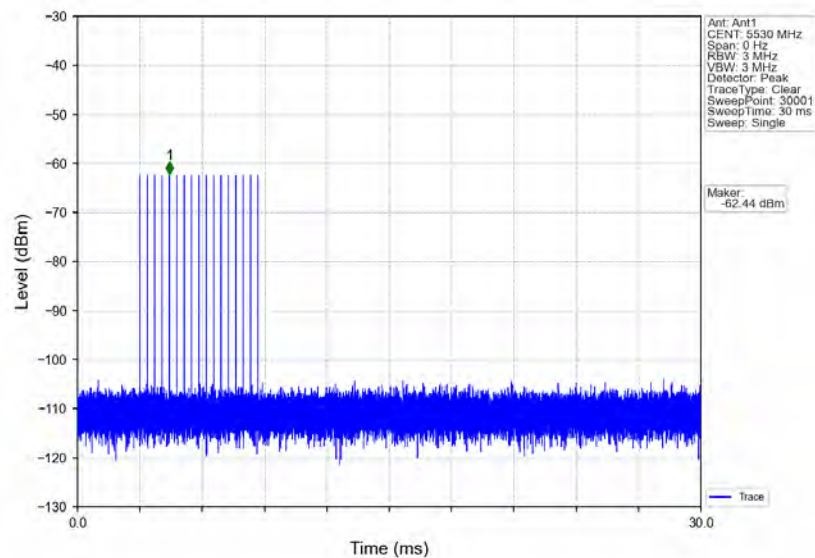
6.2.2 Test Graph



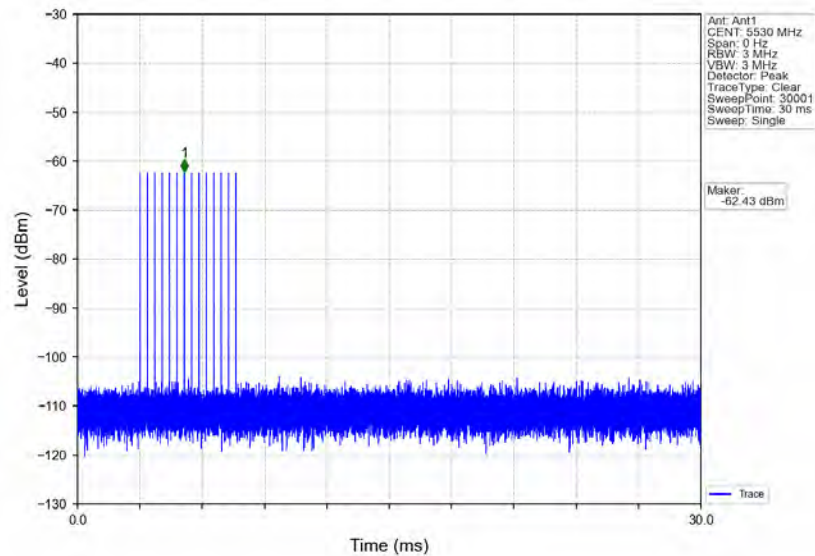
Signal Calibration_802.11ac(VHT80)_2C_5530MHz_RadarType2_Trial0



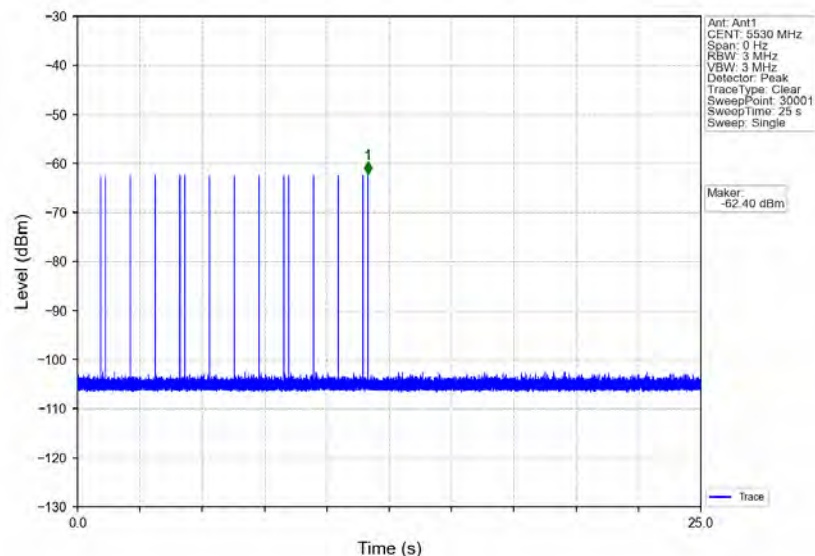
Signal Calibration_802.11ac(VHT80)_2C_5530MHz_RadarType3_Trial0



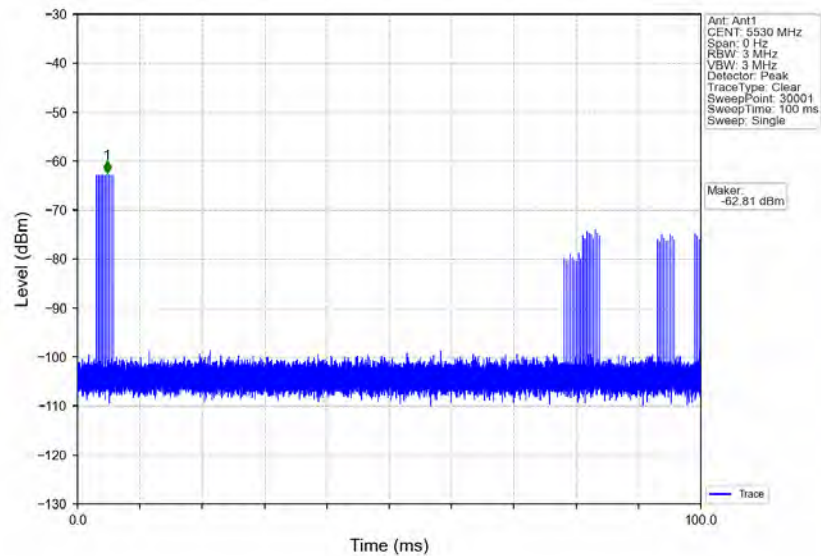
Signal Calibration_802.11ac(VHT80)_2C_5530MHz_RadarType4_Trial0



Signal Calibration_802.11ac(VHT80)_2C_5530MHz_RadarType5_Trial0



Signal Calibration_802.11ac(VHT80)_2C_5530MHz_RadarType6_Trial0





Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 308 of 315

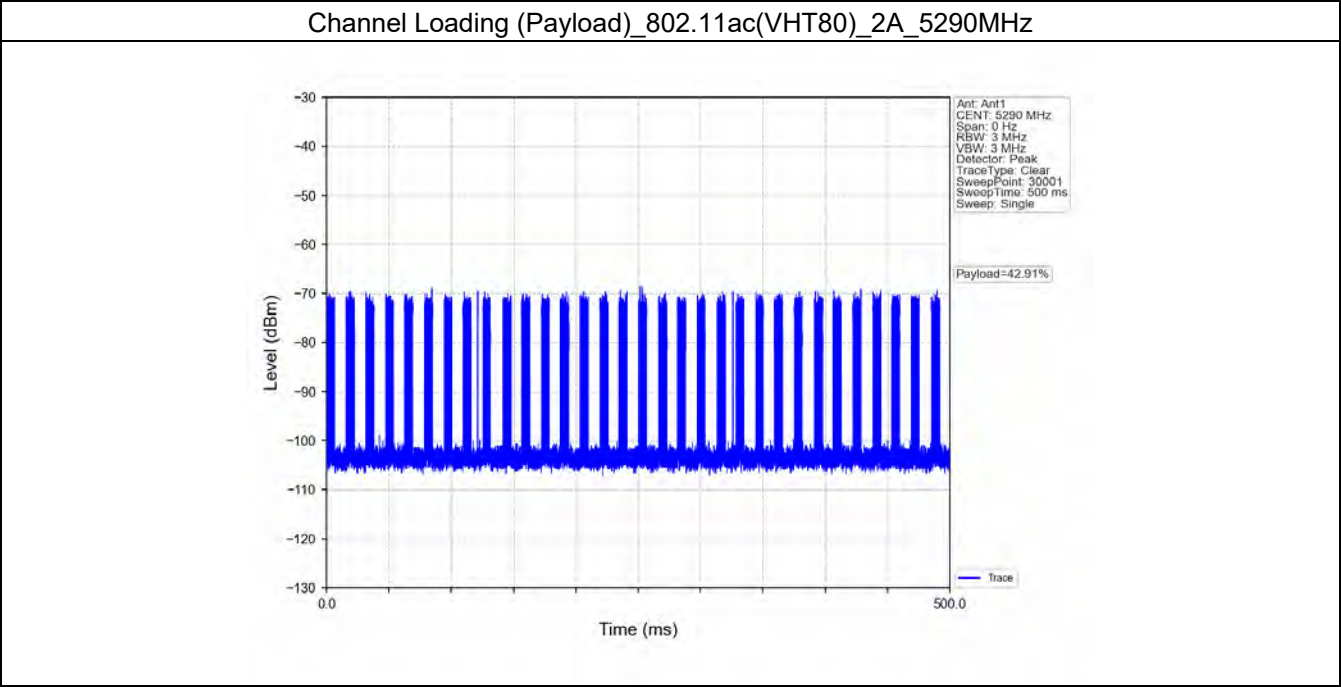
7. Channel Loading (Payload)

7.1 Payload

7.1.1 Test Result

Band: 2A					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Loading (Payload) (%)		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5290	42.91	>=17	Pass

7.1.2 Test Graph





Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

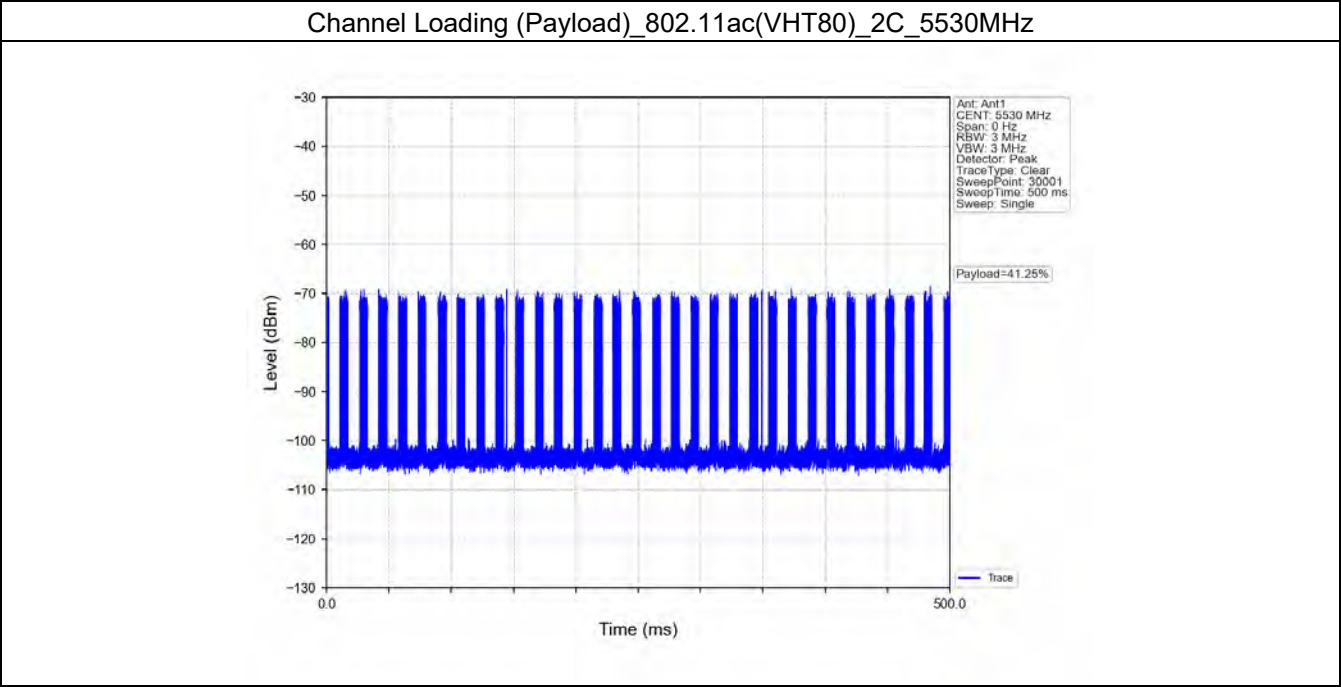
Page: 310 of 315

7.2 Payload

2.2.1 Test Result

Band: 2C					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Loading (Payload) (%)		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5530	41.25	>=17	Pass

7.2.2 Test Graph





Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

Page: 312 of 315

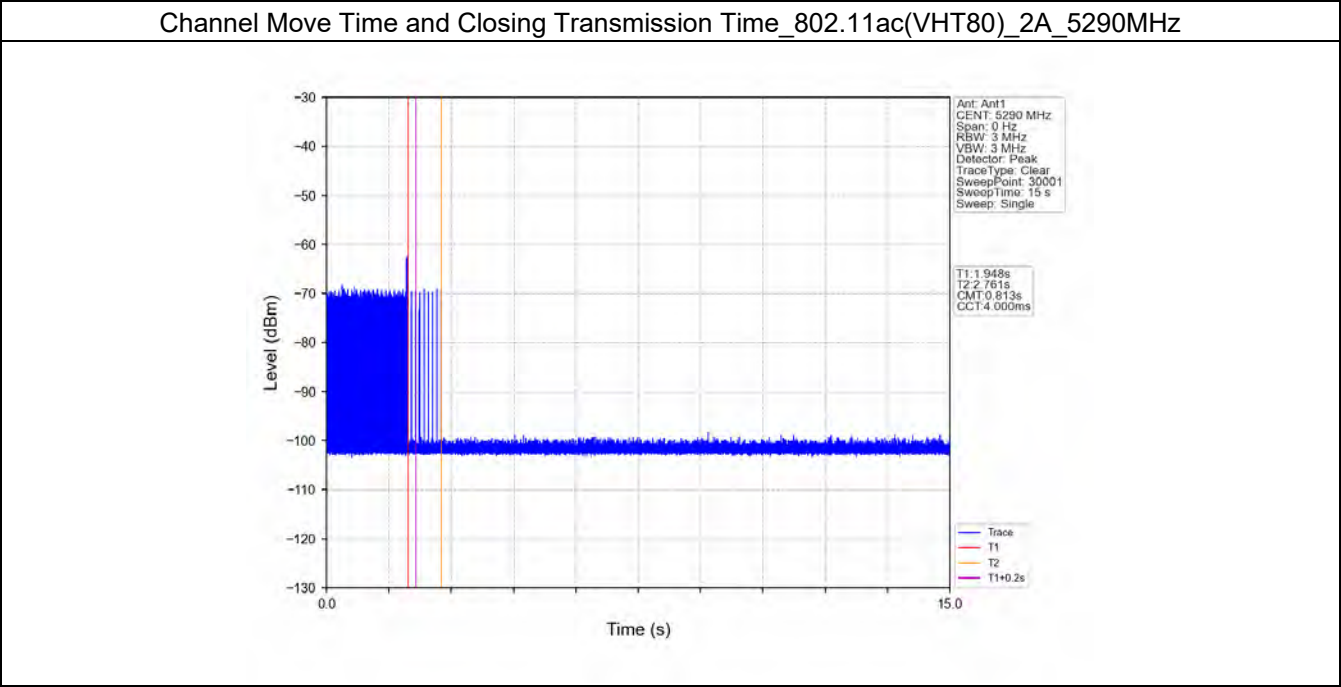
8. Channel Move Time and Closing Transmission Time

8.1 CMT_CTT

8.1.1 Test Result

Band: 2A					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Move Time and Closing Transmission Time		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5290	Refer To Test Graph		Pass

8.1.2 Test Graph





Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR231100205204

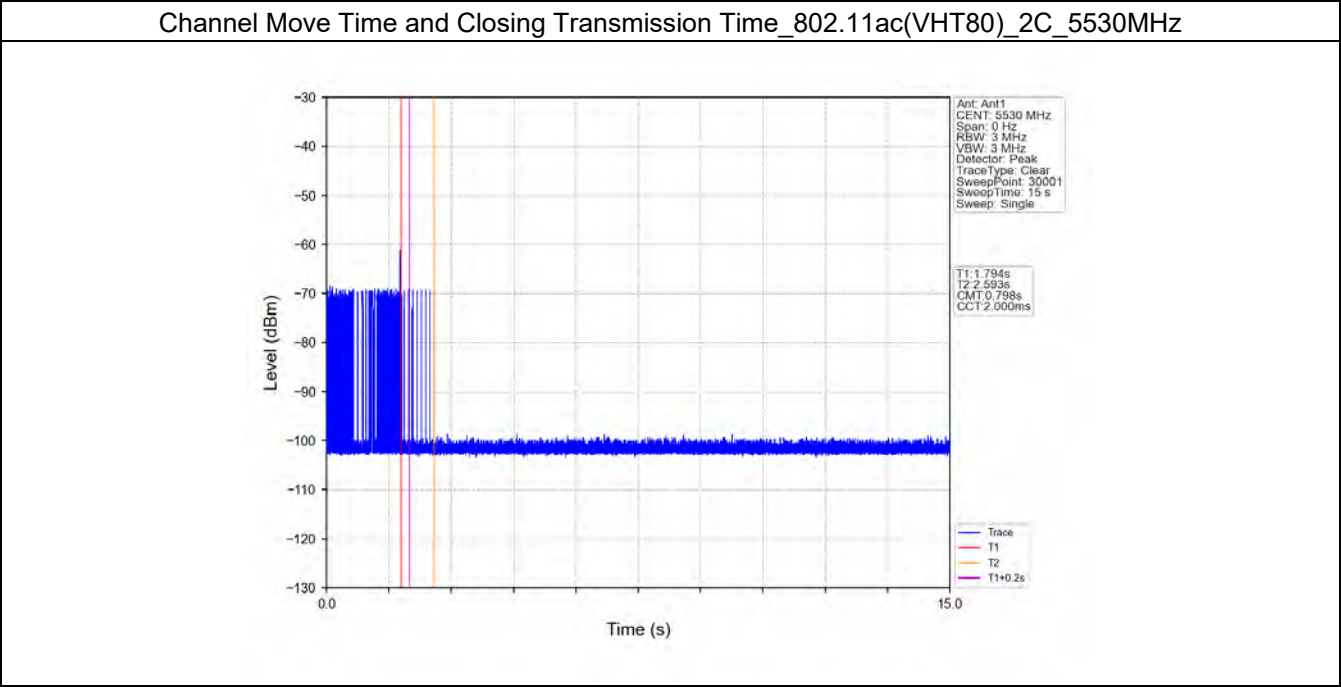
Page: 314 of 315

8.2 CMT_CTT

8.2.1 Test Result

Band: 2C					
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Move Time and Closing Transmission Time		Verdict
			Result	Limit	
802.11ac (VHT80)	80	5530	Refer To Test Graph		Pass

8.2.2 Test Graph



- End of the Report -