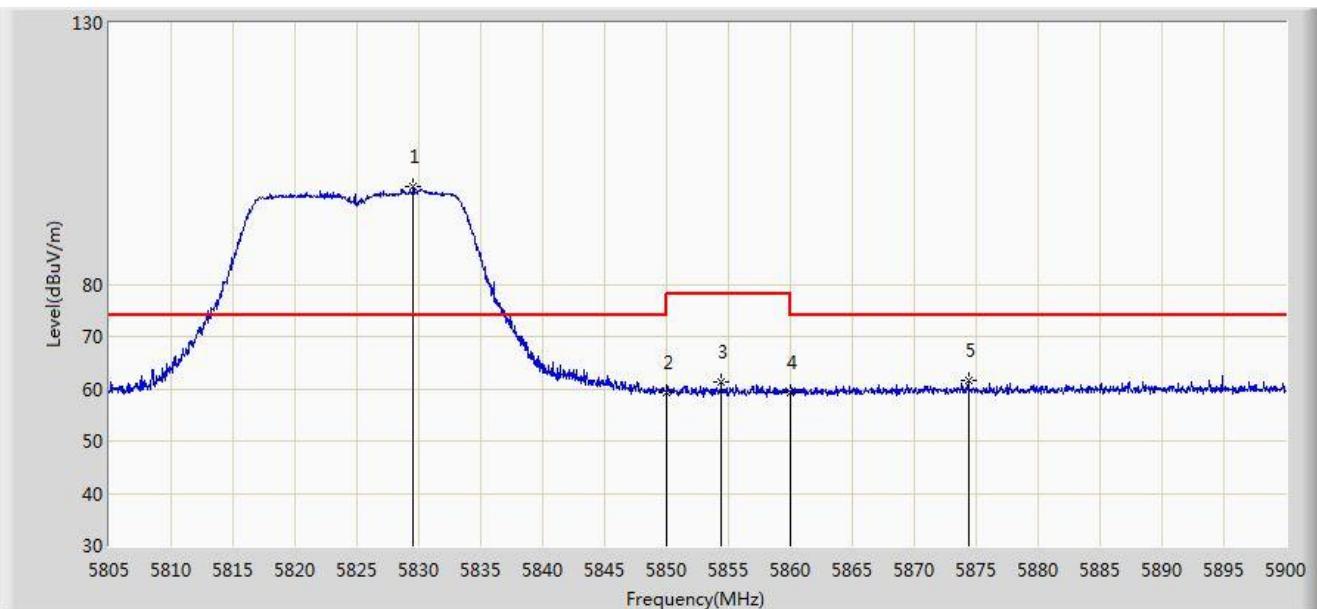


Site: AC1	Time: 2016/01/10 - 13:03
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5825MHz Ant 2	

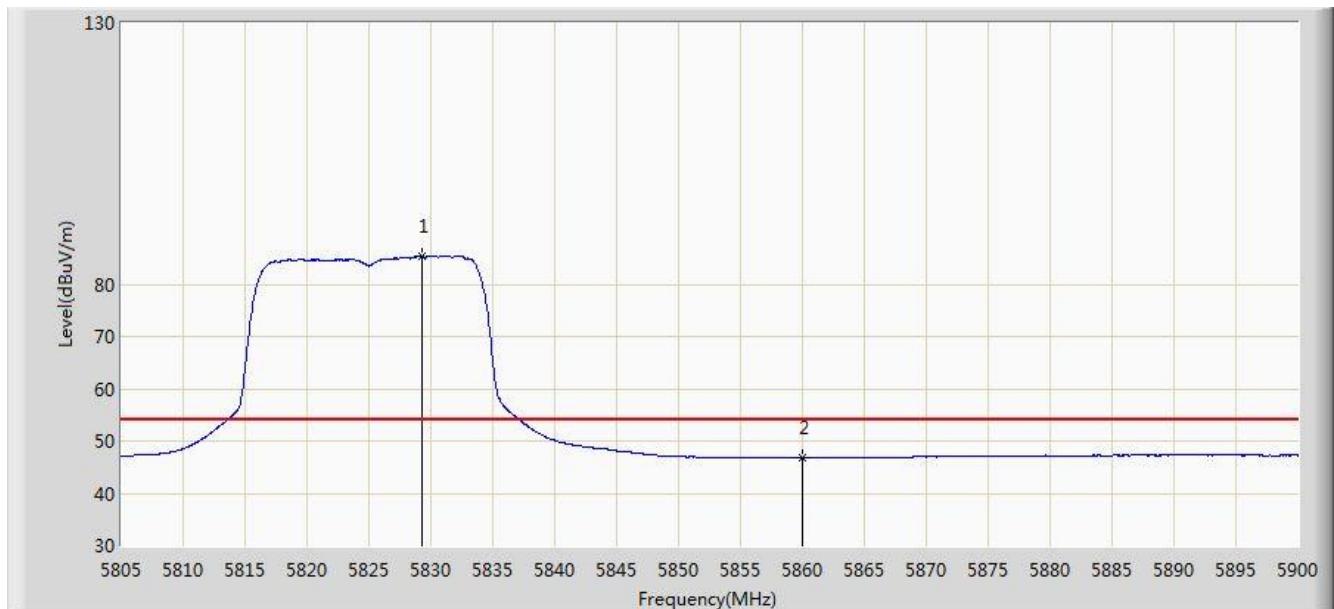


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1		*	5829.558	98.667	94.651	N/A	N/A	4.015	PK
2			5850.000	59.386	55.329	-18.814	78.200	4.058	PK
3			5854.400	61.163	57.103	-17.037	78.200	4.060	PK
4			5860.000	59.202	55.139	-14.798	74.000	4.064	PK
5			5874.350	61.530	57.427	-12.470	74.000	4.103	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/10 - 13:09
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5825MHz Ant 2	

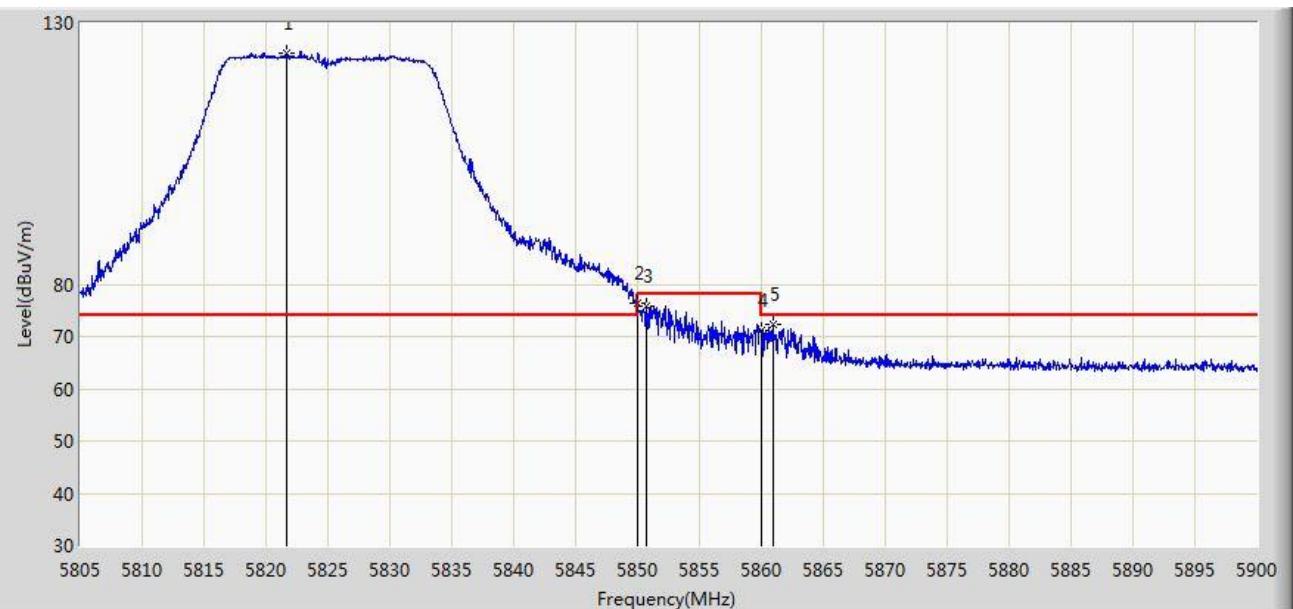


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1		*	5829.320	85.231	81.216	N/A	N/A	4.016	AV
2			5860.000	46.827	42.764	-7.173	54.000	4.064	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/10 - 13:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5825MHz Ant 2	

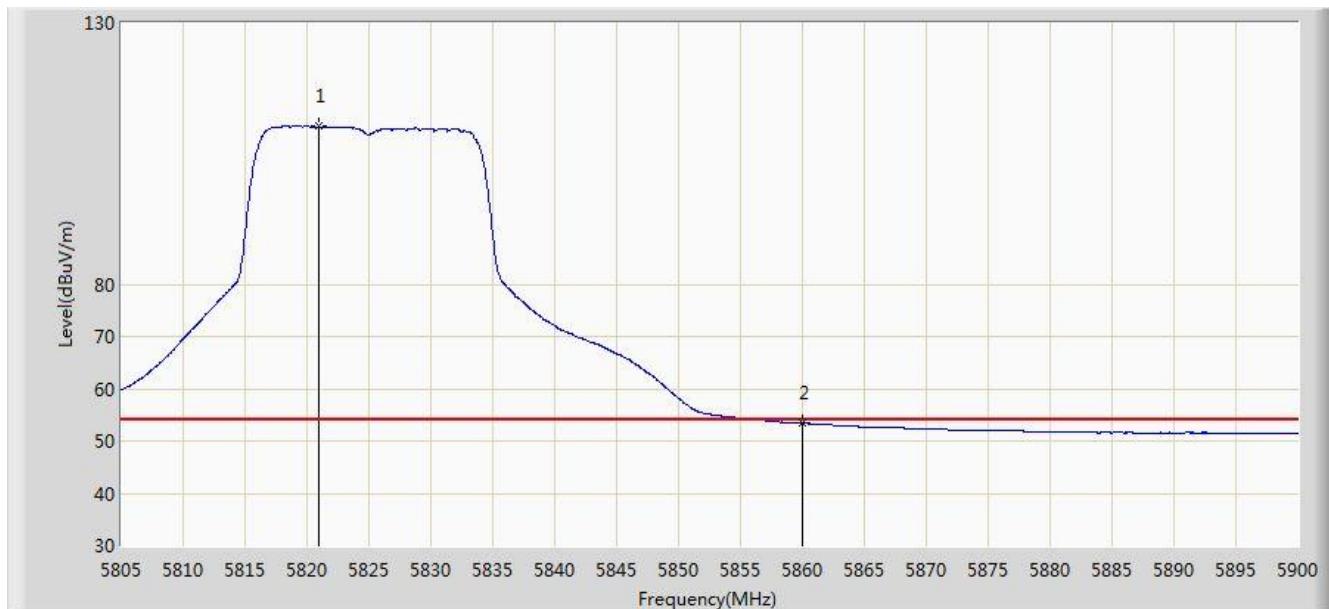


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5821.720	124.298	120.300	N/A	N/A	3.998	PK
2			5850.000	76.299	72.242	-1.901	78.200	4.058	PK
3			5850.695	75.863	71.806	-2.337	78.200	4.058	PK
4			5860.000	71.064	67.001	-2.936	74.000	4.064	PK
5			5860.908	72.327	68.263	-1.673	74.000	4.064	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/10 - 13:01
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5825MHz Ant 2	

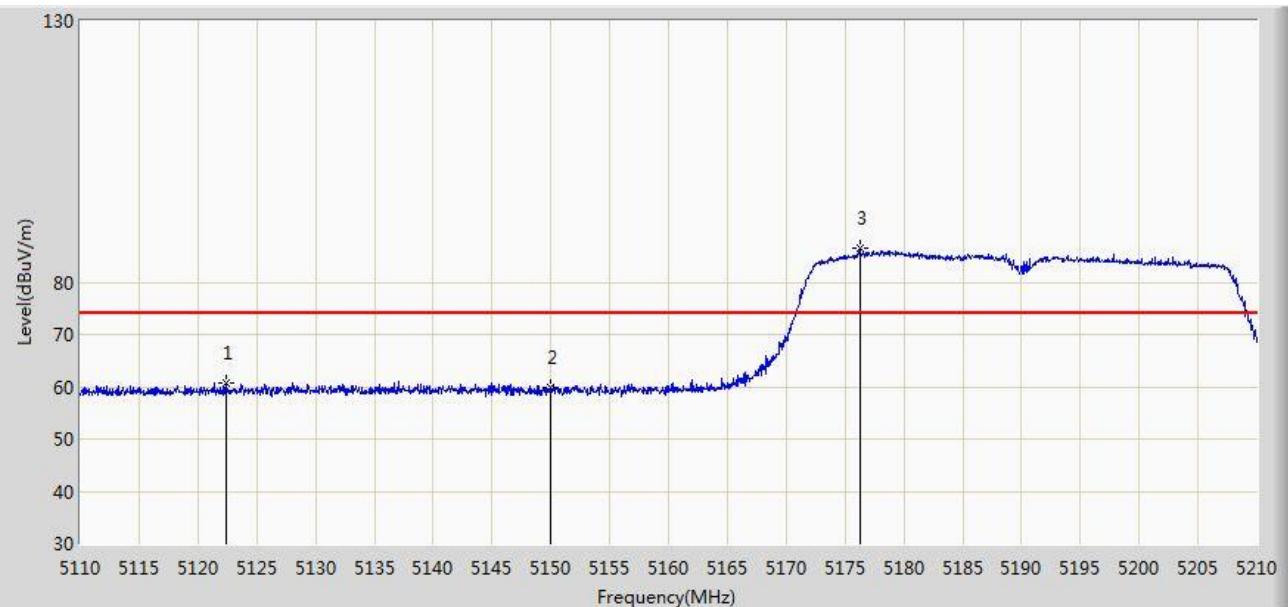


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5820.913	110.146	106.150	N/A	N/A	3.996	AV
2			5860.000	53.377	49.314	-0.623	54.000	4.064	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/10 - 13:14
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5190MHz Ant 2	

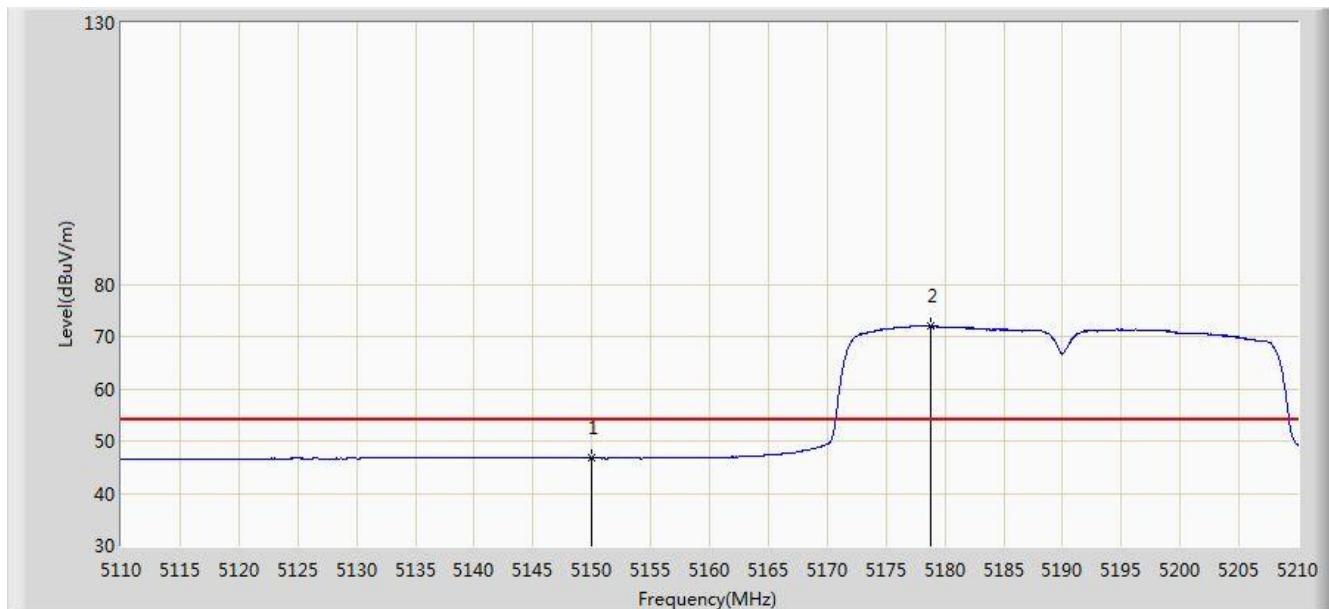


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5122.350	60.750	57.455	-13.250	74.000	3.295	PK
2			5150.000	59.735	56.426	-14.265	74.000	3.309	PK
3	*	*	5176.250	86.471	83.195	N/A	N/A	3.276	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/10 - 13:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5190MHz Ant 2	

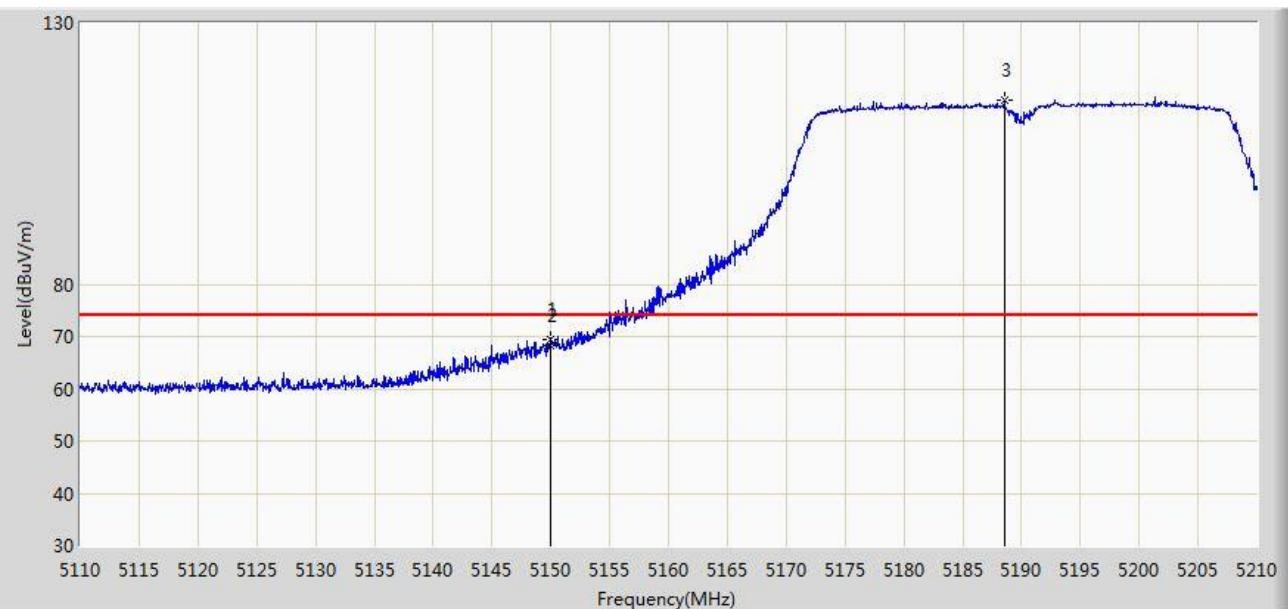


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	46.718	43.409	-7.282	54.000	3.309	AV
2		*	5178.750	72.086	68.812	N/A	N/A	3.273	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/10 - 13:14
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5190MHz Ant 2	

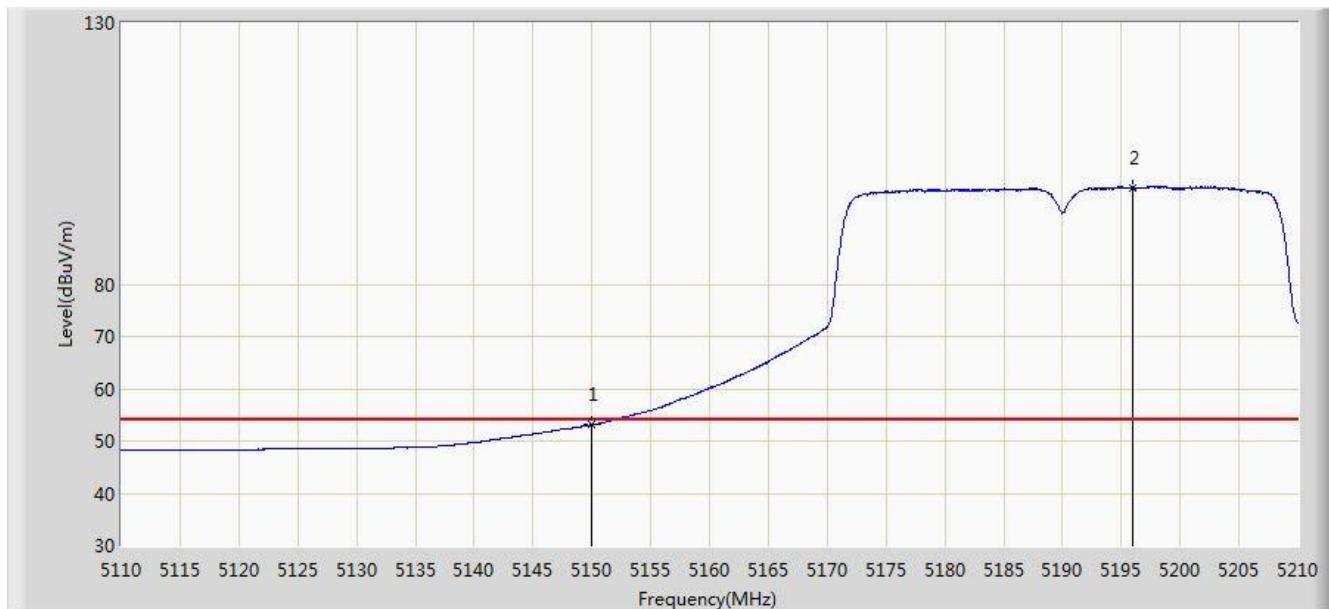


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.950	69.438	66.129	-4.562	74.000	3.309	PK
2			5150.000	68.211	64.902	-5.789	74.000	3.309	PK
3		*	5188.550	115.183	111.921	N/A	N/A	3.263	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/10 - 13:13
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5190MHz Ant 2	

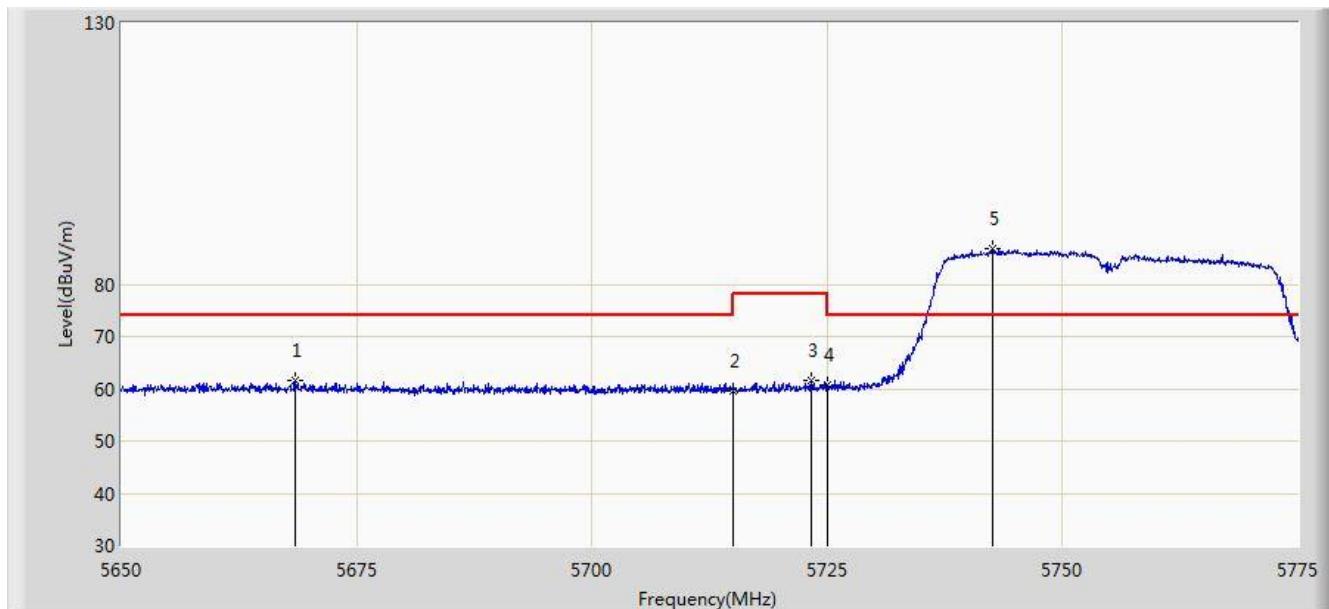


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	53.087	49.778	-0.913	54.000	3.309	AV
2		*	5195.950	98.529	95.275	N/A	N/A	3.254	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/10 - 13:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5755MHz Ant 2	

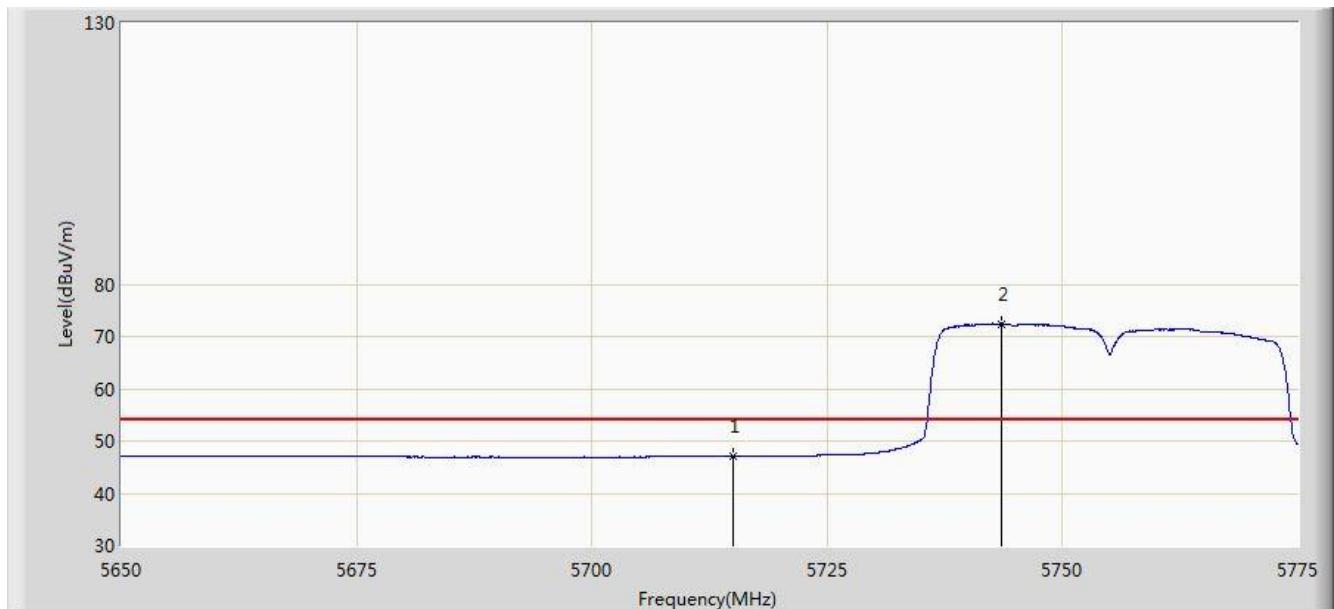


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5668.437	61.580	57.921	-12.420	74.000	3.658	PK
2			5715.000	59.635	55.874	-14.365	74.000	3.761	PK
3			5723.250	61.590	57.805	-16.610	78.200	3.785	PK
4			5725.000	60.823	57.032	-17.377	78.200	3.791	PK
5	*		5742.562	86.802	82.958	N/A	N/A	3.844	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/10 - 13:25
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5755MHz Ant 2	

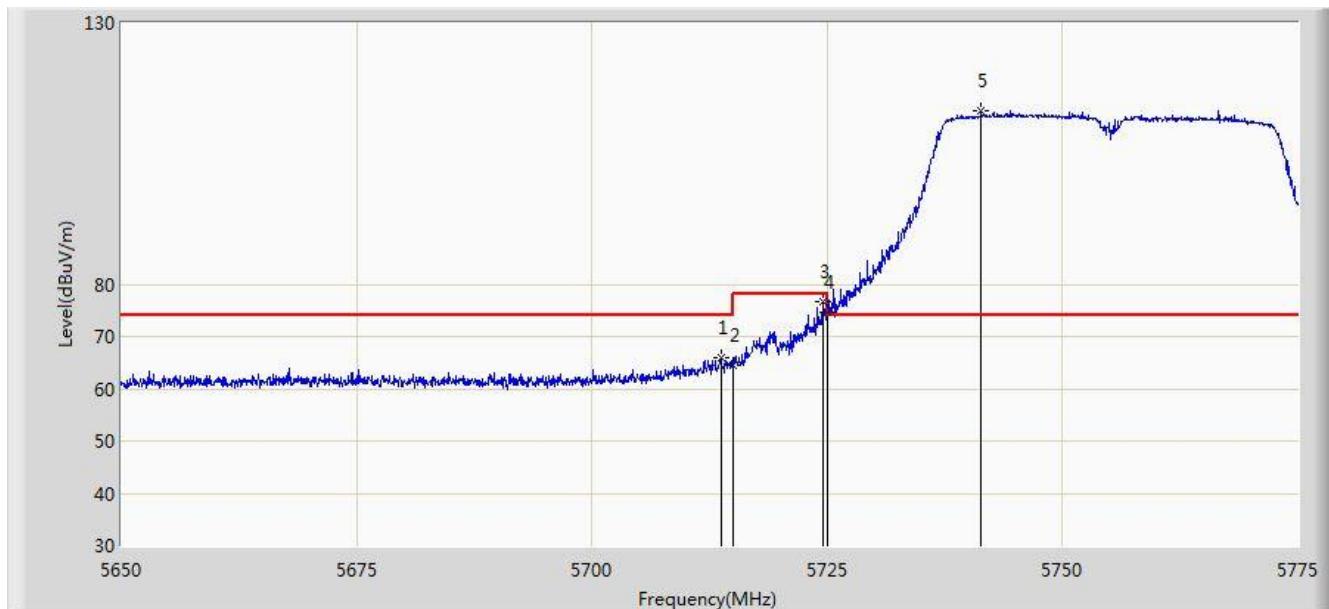


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1			5715.000	47.105	43.344	-6.895	54.000	3.761	AV
2		*	5743.437	72.458	68.611	N/A	N/A	3.848	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/10 - 13:21
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5755MHz Ant 2	

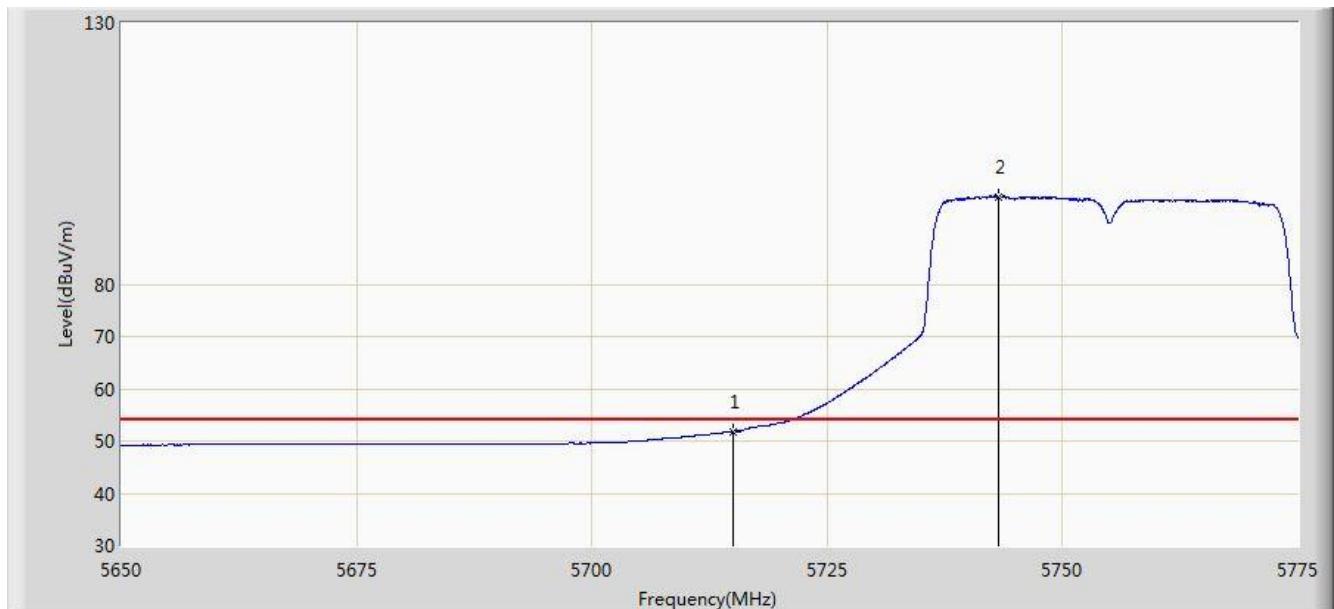


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5713.687	66.013	62.256	-7.987	74.000	3.757	PK
2			5715.000	64.365	60.604	-9.635	74.000	3.761	PK
3			5724.625	76.628	72.838	-1.572	78.200	3.789	PK
4			5725.000	74.613	70.822	-3.587	78.200	3.791	PK
5	*		5741.375	113.305	109.464	N/A	N/A	3.842	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/10 - 13:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5755MHz Ant 2	

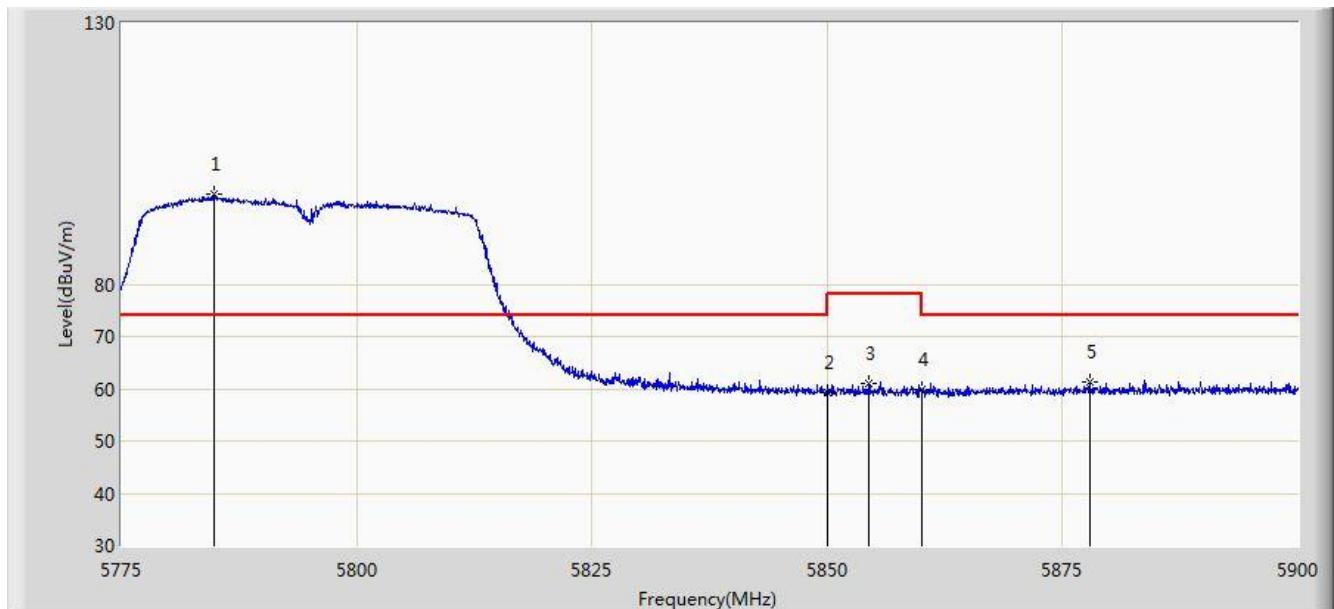


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1			5715.000	51.851	48.090	-2.149	54.000	3.761	AV
2	*		5743.250	96.674	92.828	N/A	N/A	3.846	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/10 - 13:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5795MHz Ant 2	

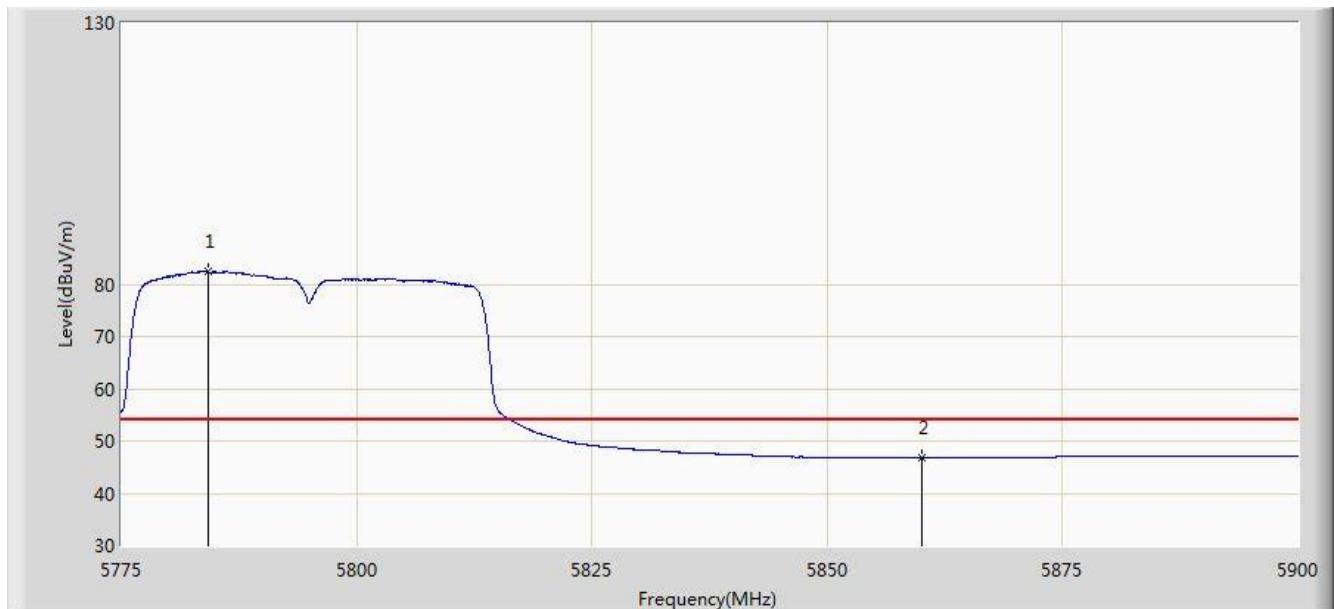


No	Flag	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Over Limit (dB)	Limit (dBµV/m)	Factor (dB)	Type
1		*	5784.812	97.172	93.236	N/A	N/A	3.935	PK
2			5850.000	59.351	55.294	-18.849	78.200	4.058	PK
3			5854.437	61.106	57.046	-17.094	78.200	4.060	PK
4			5860.000	59.899	55.836	-14.101	74.000	4.064	PK
5			5877.875	61.287	57.173	-12.713	74.000	4.114	PK

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/10 - 13:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5795MHz Ant 2	

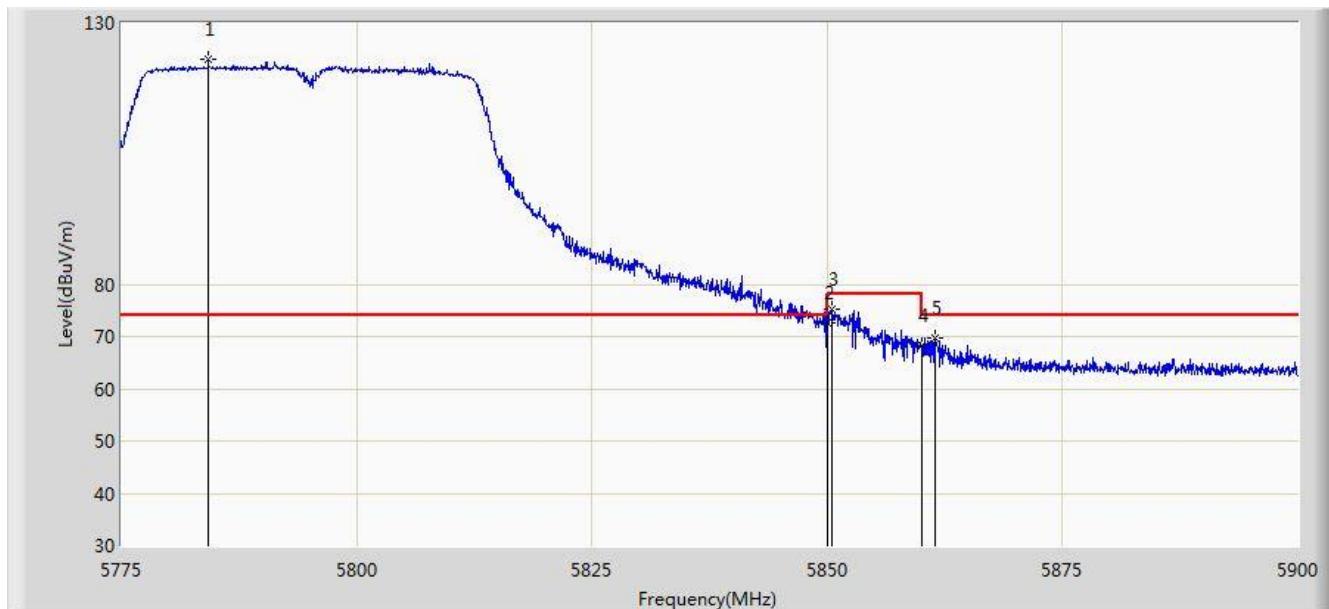


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1		*	5784.312	82.343	78.408	N/A	N/A	3.935	AV
2			5860.000	46.712	42.649	-7.288	54.000	4.064	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/10 - 13:29
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5795MHz Ant 2	

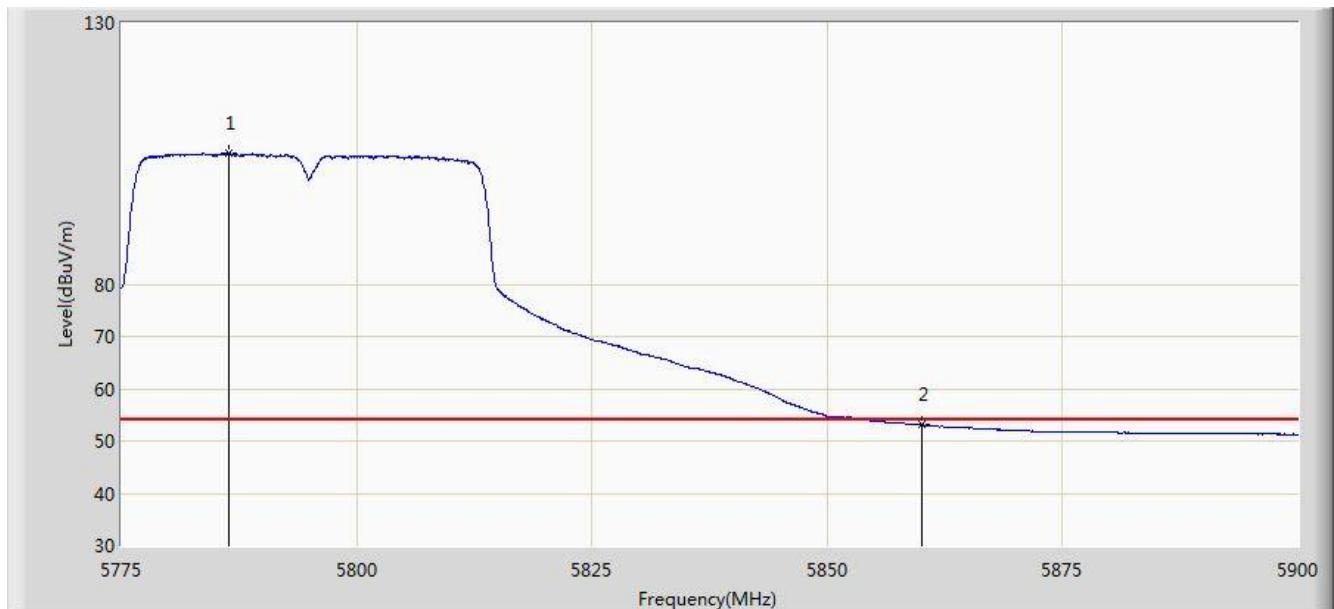


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5784.250	122.901	118.966	N/A	N/A	3.935	PK
2			5850.000	72.503	68.446	-5.697	78.200	4.058	PK
3			5850.437	75.261	71.204	-2.939	78.200	4.057	PK
4			5860.000	68.361	64.298	-5.639	74.000	4.064	PK
5			5861.500	69.845	65.781	-4.155	74.000	4.065	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/10 - 13:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5795MHz Ant 2	

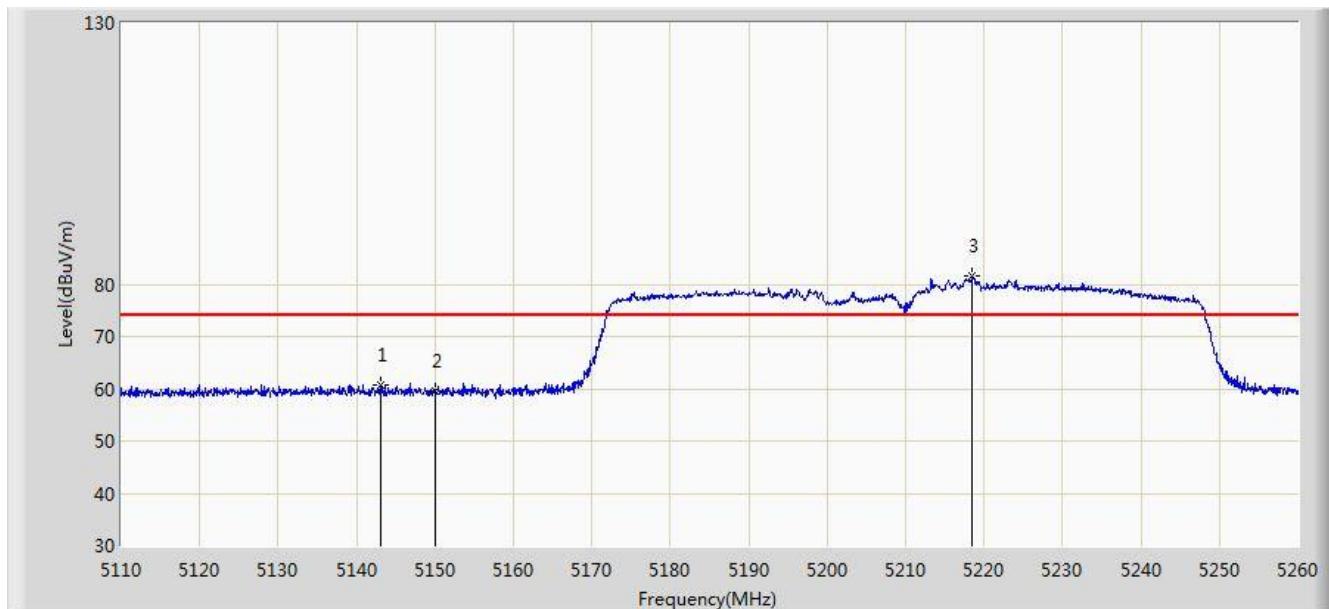


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1		*	5786.375	105.056	101.118	N/A	N/A	3.939	AV
2			5860.000	53.101	49.038	-0.899	54.000	4.064	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/10 - 13:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz Ant 2	

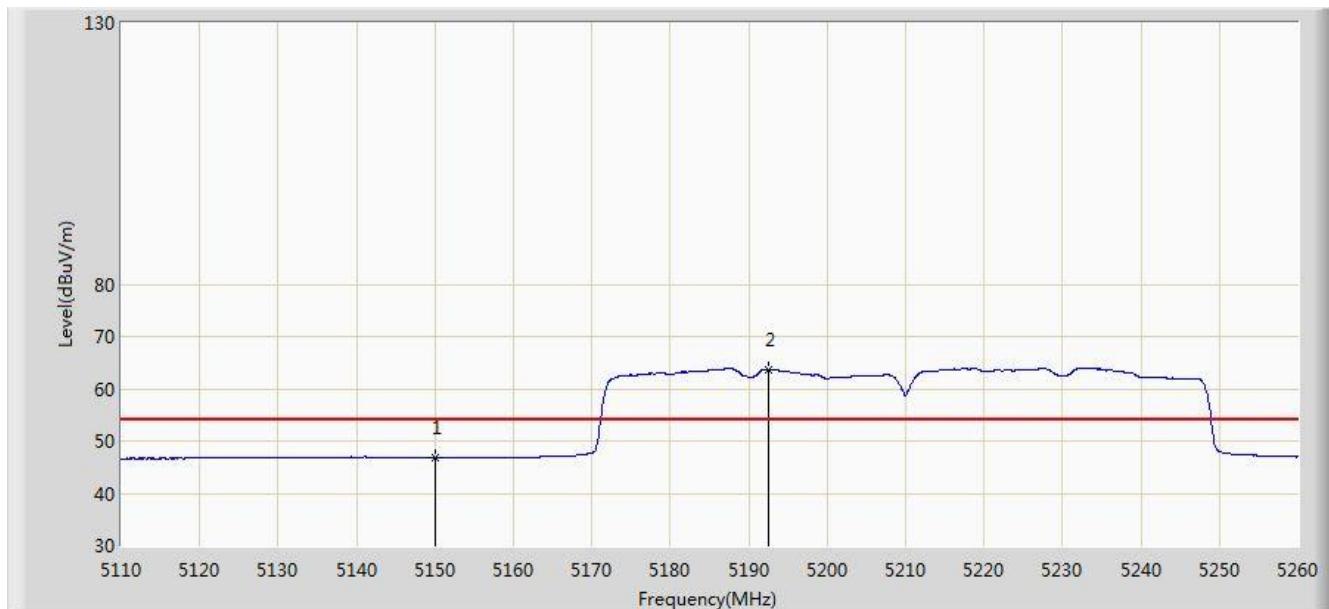


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5143.000	60.810	57.501	-13.190	74.000	3.310	PK
2			5150.000	59.709	56.400	-14.291	74.000	3.309	PK
3		*	5218.450	81.532	78.319	N/A	N/A	3.213	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/10 - 13:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz Ant 2	

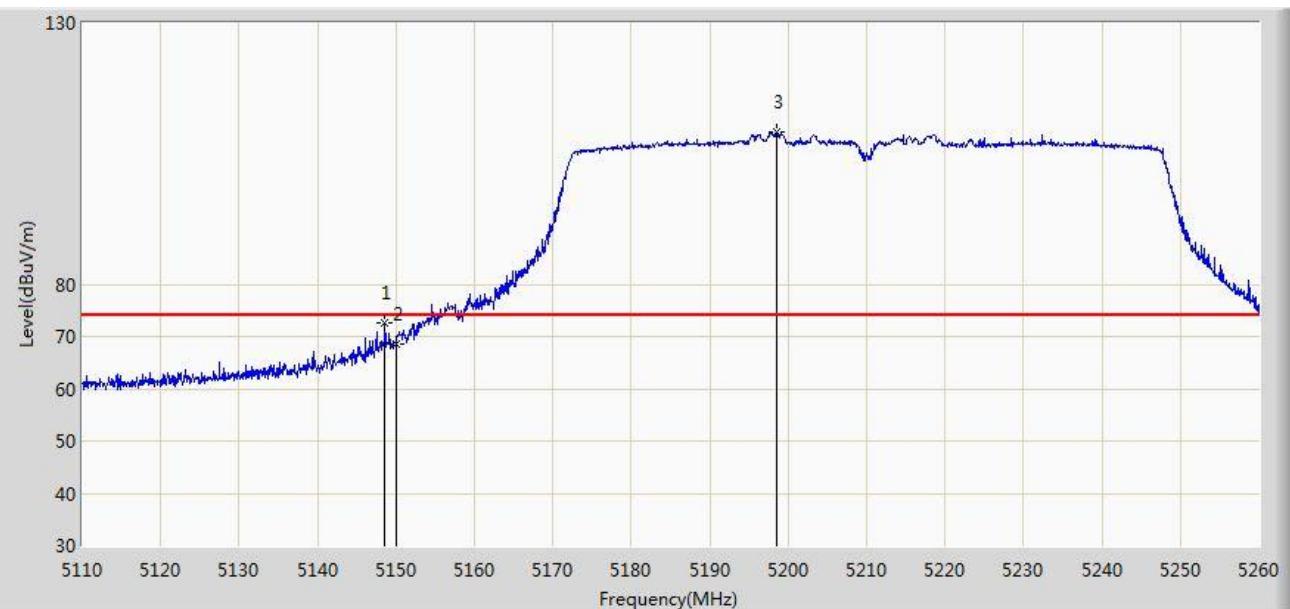


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	46.903	43.594	-7.097	54.000	3.309	AV
2	*	*	5192.500	63.758	60.500	N/A	N/A	3.258	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/10 - 13:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz Ant 2	

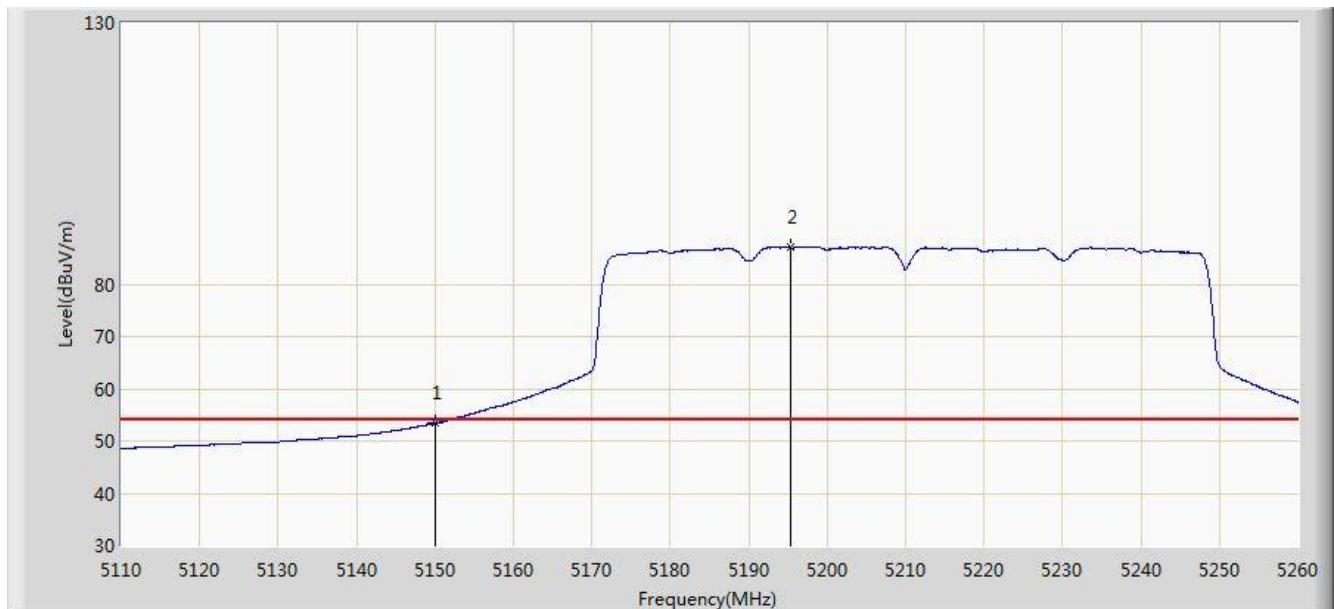


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5148.625	72.496	69.187	-1.504	74.000	3.309	PK
2			5150.000	68.592	65.283	-5.408	74.000	3.309	PK
3		*	5198.500	109.045	105.794	N/A	N/A	3.251	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/10 - 13:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz Ant 2	

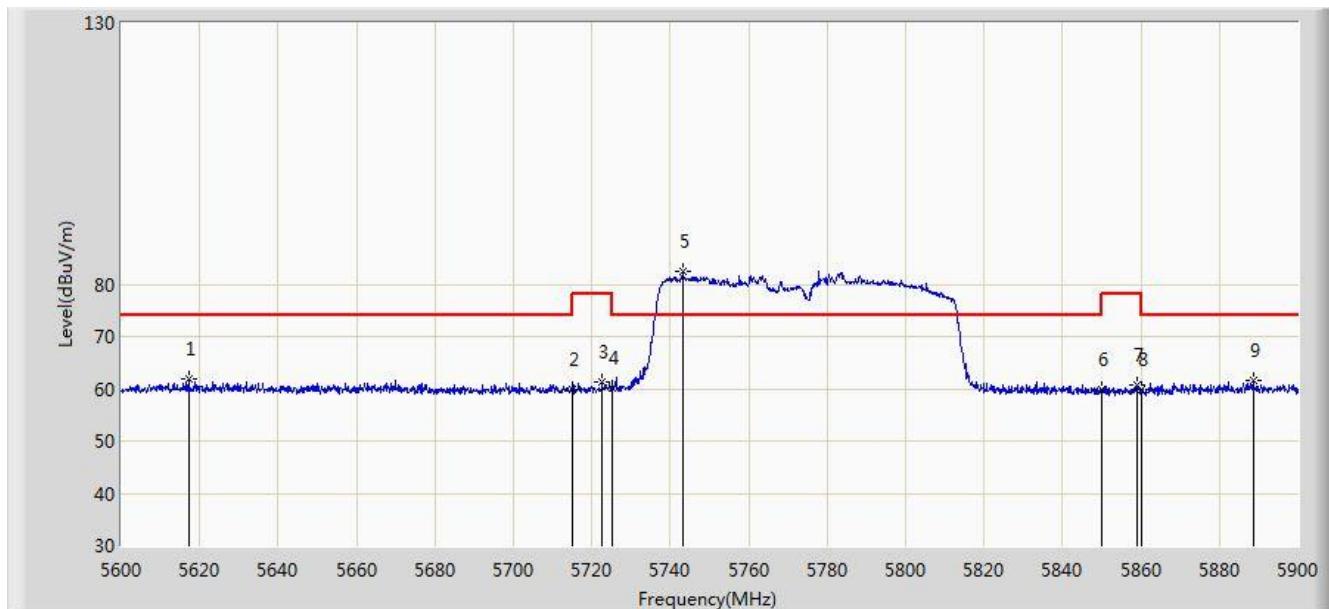


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	53.400	50.091	-0.600	54.000	3.309	AV
2	*		5195.275	86.996	83.741	N/A	N/A	3.255	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/10 - 14:02
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5775MHz Ant 2	

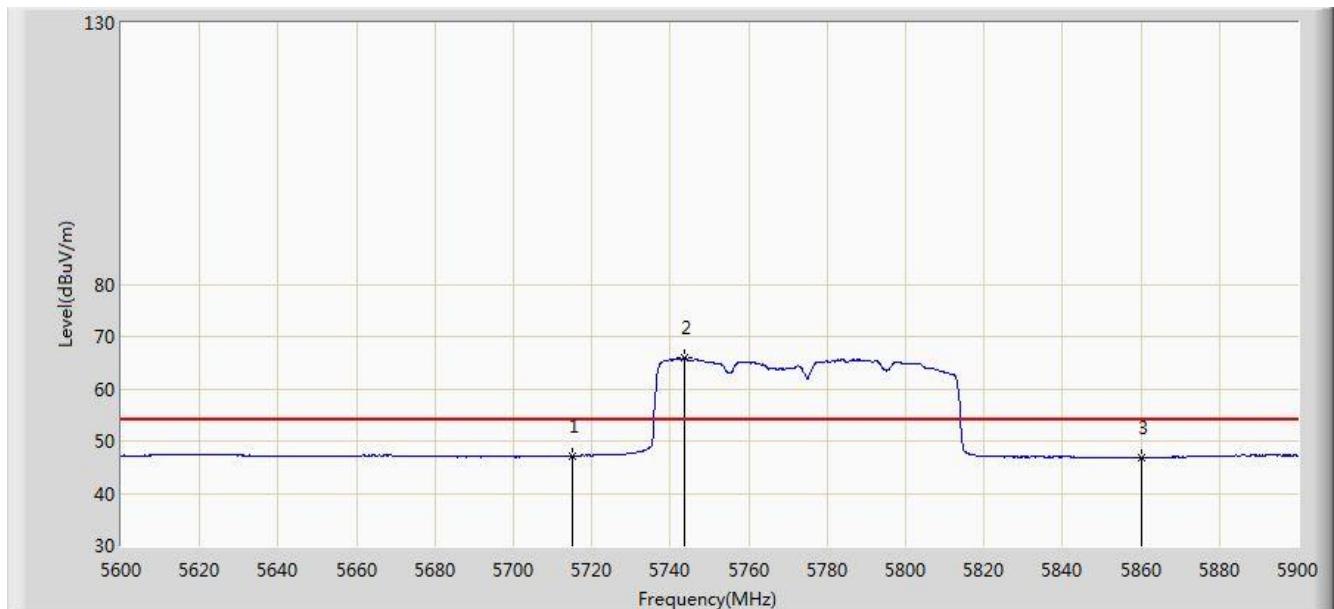


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5617.250	61.740	58.207	-12.260	74.000	3.533	PK
2			5715.000	59.953	56.192	-14.047	74.000	3.761	PK
3			5722.550	61.352	57.569	-16.848	78.200	3.783	PK
4			5725.000	60.085	56.294	-18.115	78.200	3.791	PK
5	*		5743.100	82.461	78.615	N/A	N/A	3.846	PK
6			5850.000	59.873	55.816	-18.327	78.200	4.058	PK
7			5858.900	60.619	56.556	-17.581	78.200	4.063	PK
8			5860.000	59.961	55.898	-14.039	74.000	4.064	PK
9			5888.600	61.619	57.473	-12.381	74.000	4.146	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/10 - 14:05
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5775MHz Ant 2	

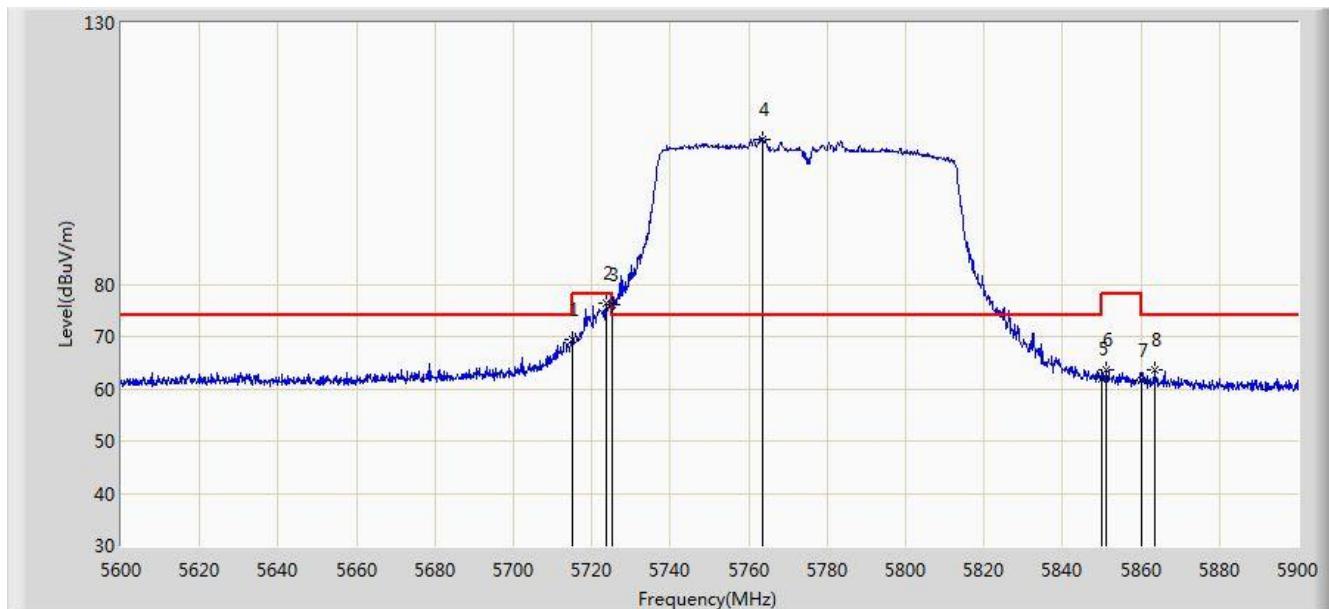


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	47.188	43.427	-6.812	54.000	3.761	AV
2		*	5743.550	65.885	62.038	N/A	N/A	3.847	AV
3			5860.000	46.784	42.721	-7.216	54.000	4.064	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/10 - 14:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5775MHz Ant 2	

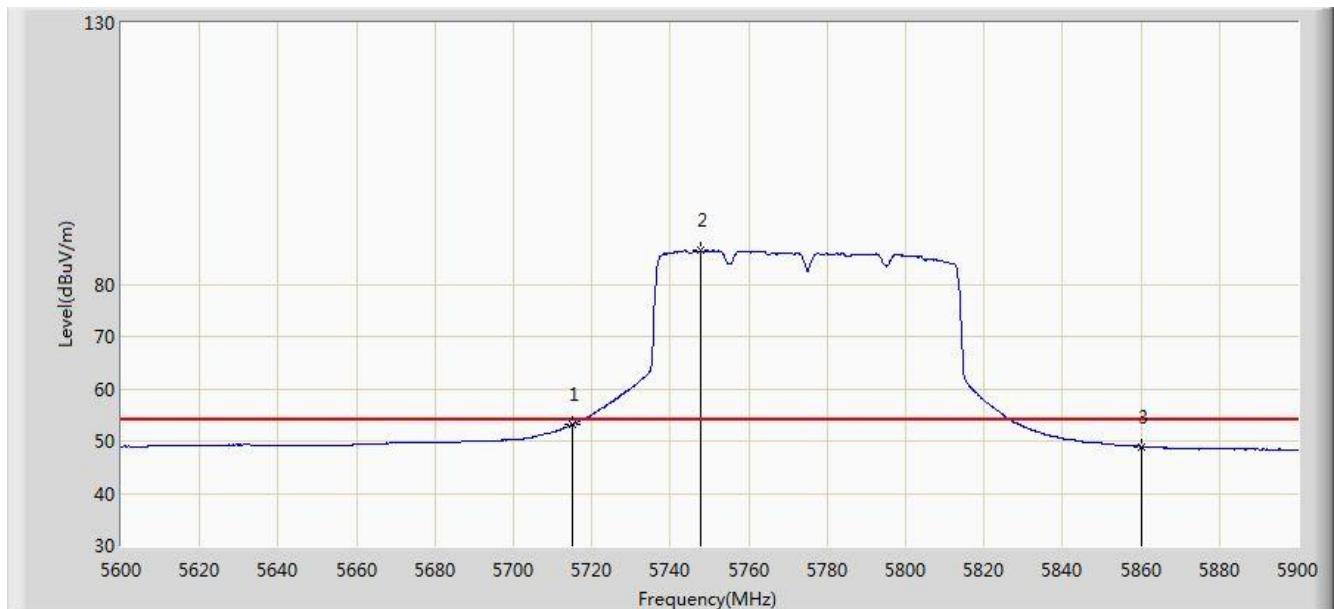


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	69.472	65.711	-4.528	74.000	3.761	PK
2			5723.750	76.408	72.621	-1.792	78.200	3.786	PK
3			5725.000	76.130	72.339	-2.070	78.200	3.791	PK
4	*		5763.650	107.800	103.891	N/A	N/A	3.909	PK
5			5850.000	61.863	57.806	-16.337	78.200	4.058	PK
6			5850.950	63.718	59.660	-14.482	78.200	4.057	PK
7			5860.000	61.606	57.543	-12.394	74.000	4.064	PK
8			5863.400	63.644	59.575	-10.356	74.000	4.069	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/10 - 14:01
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5775MHz Ant 2	

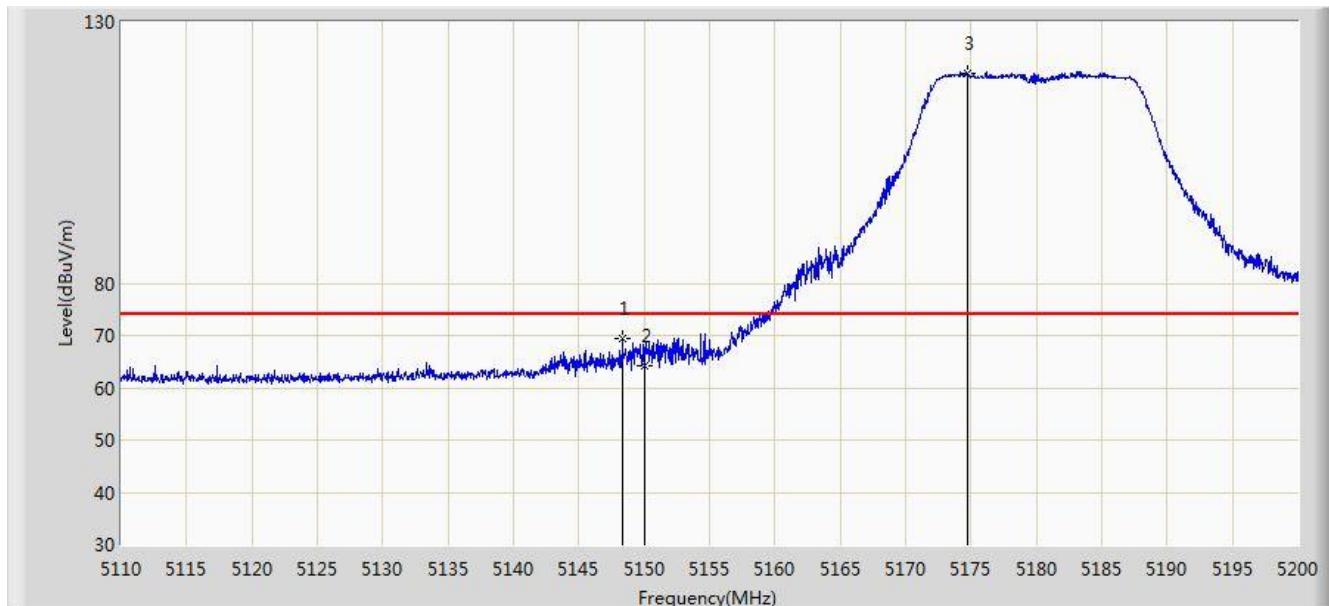


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	53.156	49.395	-0.844	54.000	3.761	AV
2		*	5747.750	86.402	82.539	N/A	N/A	3.863	AV
3			5860.000	48.874	44.811	-5.126	54.000	4.064	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 16:36
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz Ant 1 + 2	

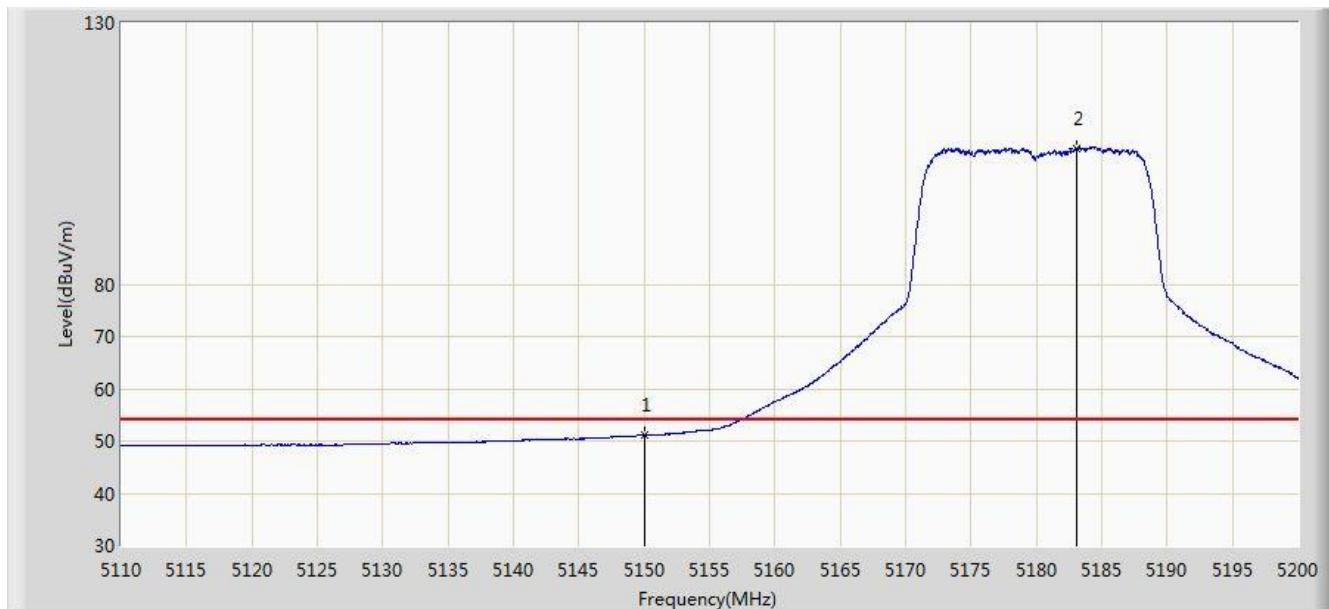


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5148.340	69.277	65.968	-4.723	74.000	3.308	PK
2			5150.000	64.234	60.925	-9.766	74.000	3.309	PK
3		*	5174.755	120.250	116.973	N/A	N/A	3.277	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 16:37
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz Ant 1 + 2	

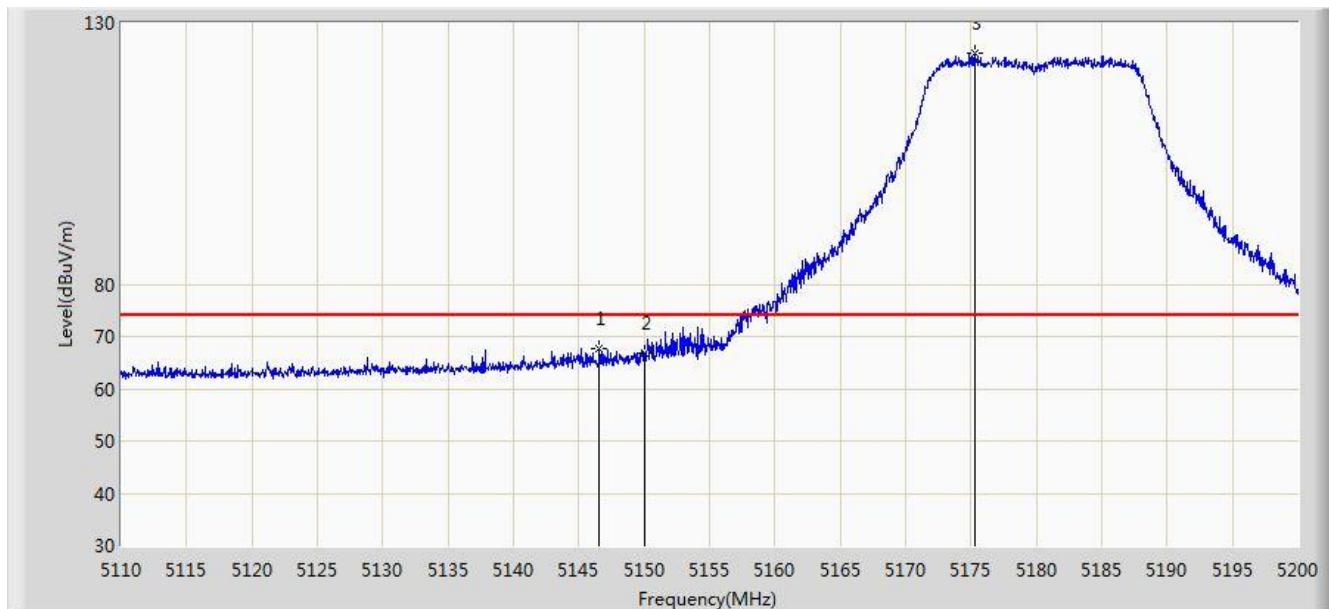


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	51.062	47.753	-2.938	54.000	3.309	AV
2		*	5183.080	106.046	102.776	N/A	N/A	3.269	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 16:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz Ant 1 + 2	

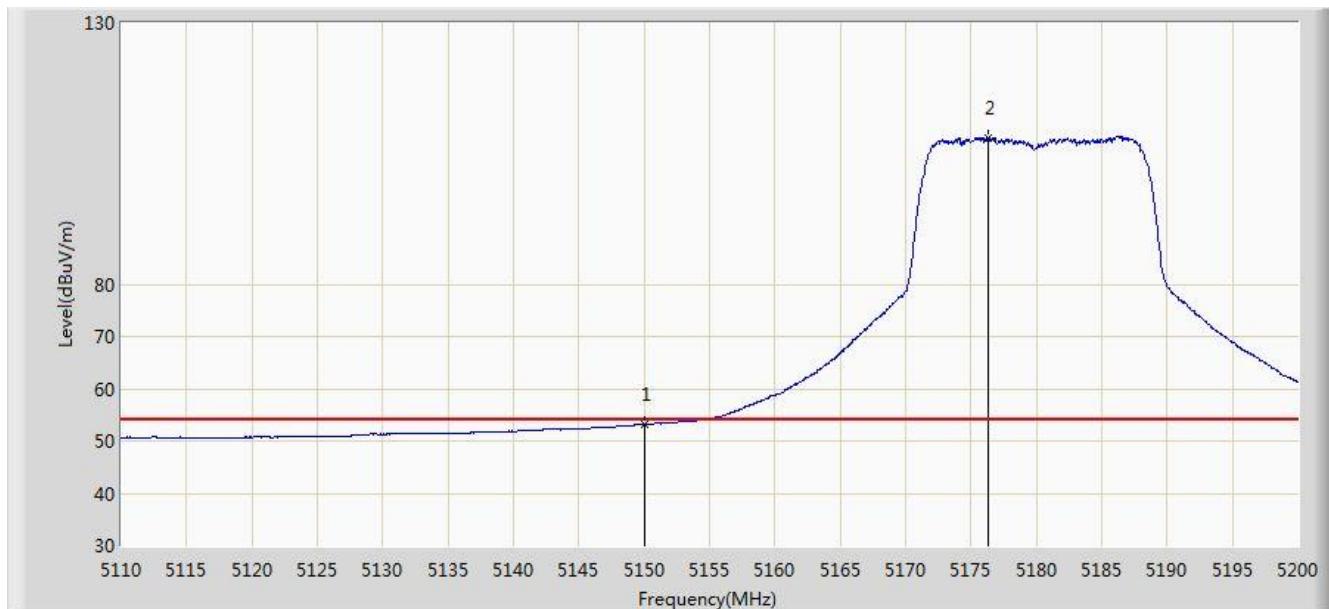


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5146.585	67.656	64.347	-6.344	74.000	3.309	PK
2			5150.000	66.877	63.568	-7.123	74.000	3.309	PK
3	*		5175.250	124.341	121.064	N/A	N/A	3.276	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 16:34
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz Ant 1 + 2	

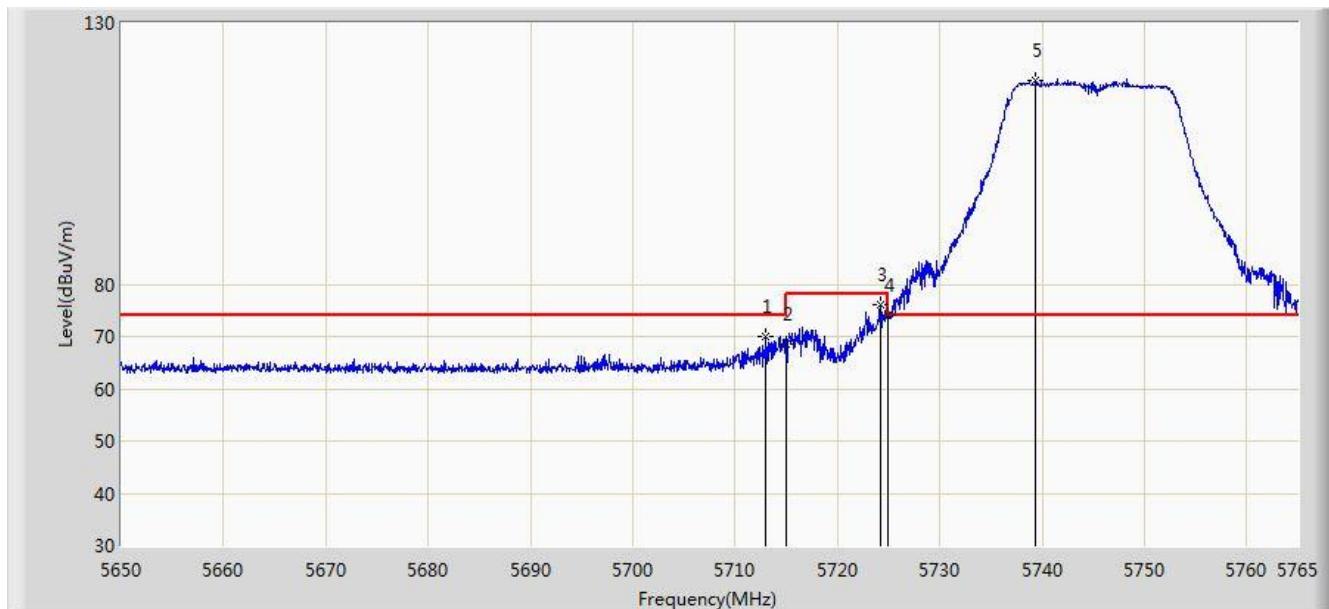


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	53.216	49.907	-0.784	54.000	3.309	AV
2		*	5176.330	107.899	104.623	N/A	N/A	3.276	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 16:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5745MHz Ant 1 + 2	

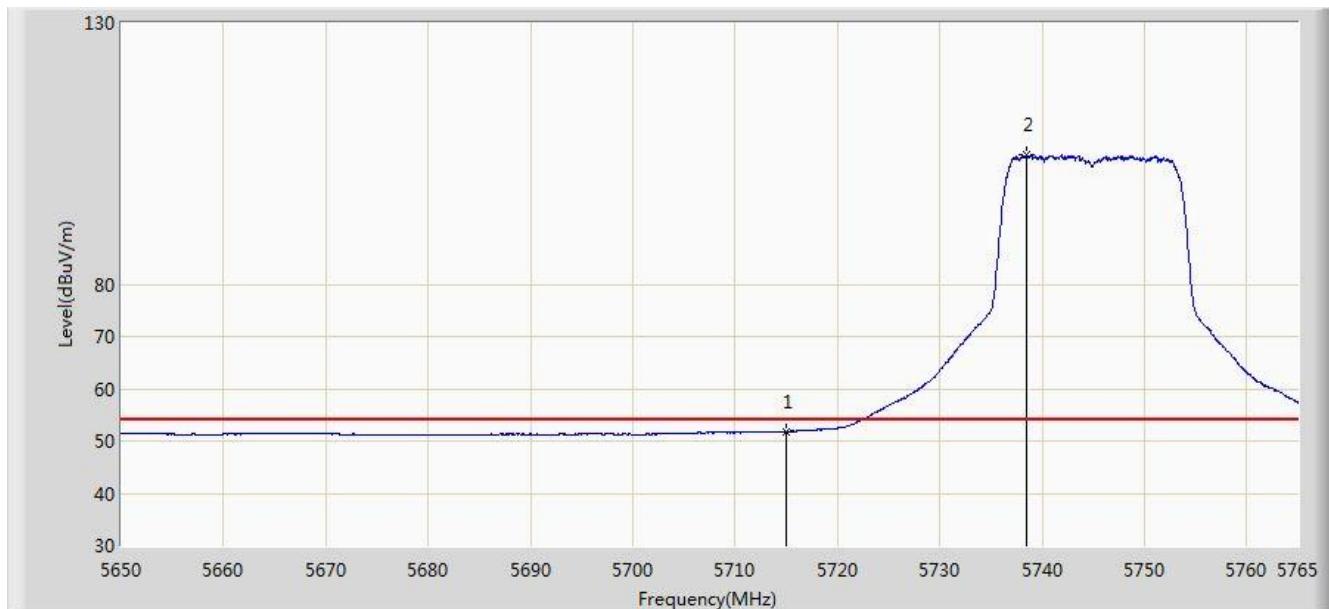


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5713.020	70.018	66.263	-3.982	74.000	3.755	PK
2			5715.000	68.514	64.753	-5.486	74.000	3.761	PK
3			5724.232	76.181	72.393	-2.019	78.200	3.789	PK
4			5725.000	73.982	70.191	-4.218	78.200	3.791	PK
5		*	5739.355	119.085	115.250	N/A	N/A	3.836	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 16:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5745MHz Ant 1 + 2	

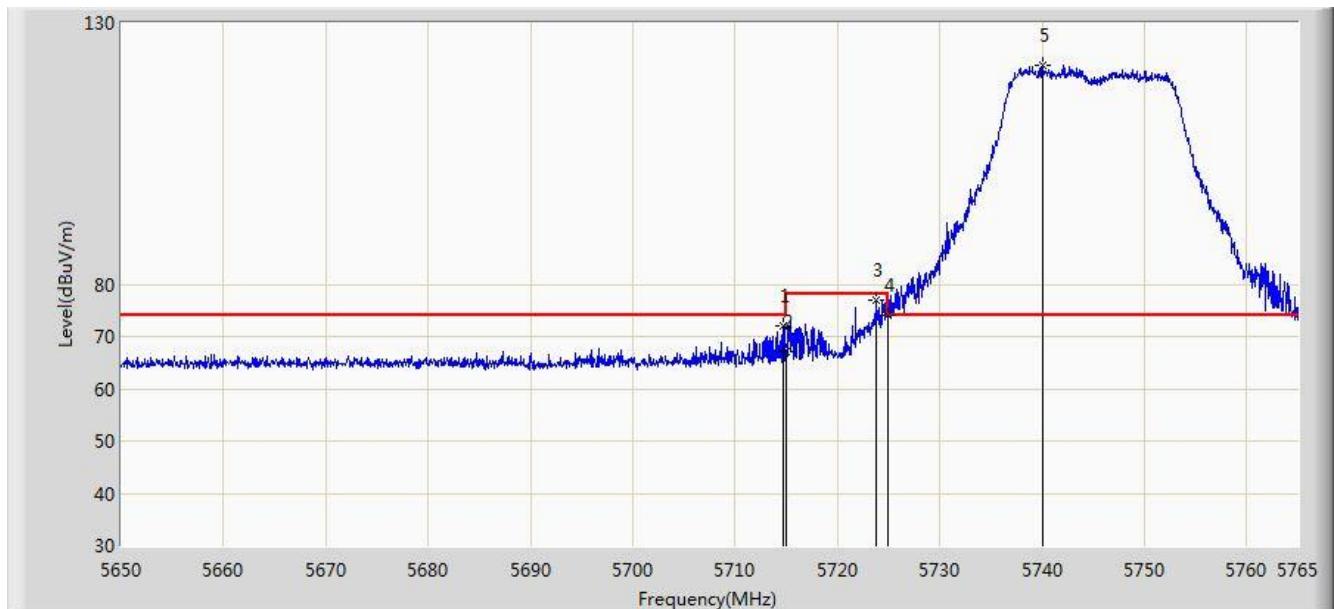


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	51.855	48.094	-2.145	54.000	3.761	AV
2	*		5738.493	104.827	100.994	N/A	N/A	3.834	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 16:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5745MHz Ant 1 + 2	

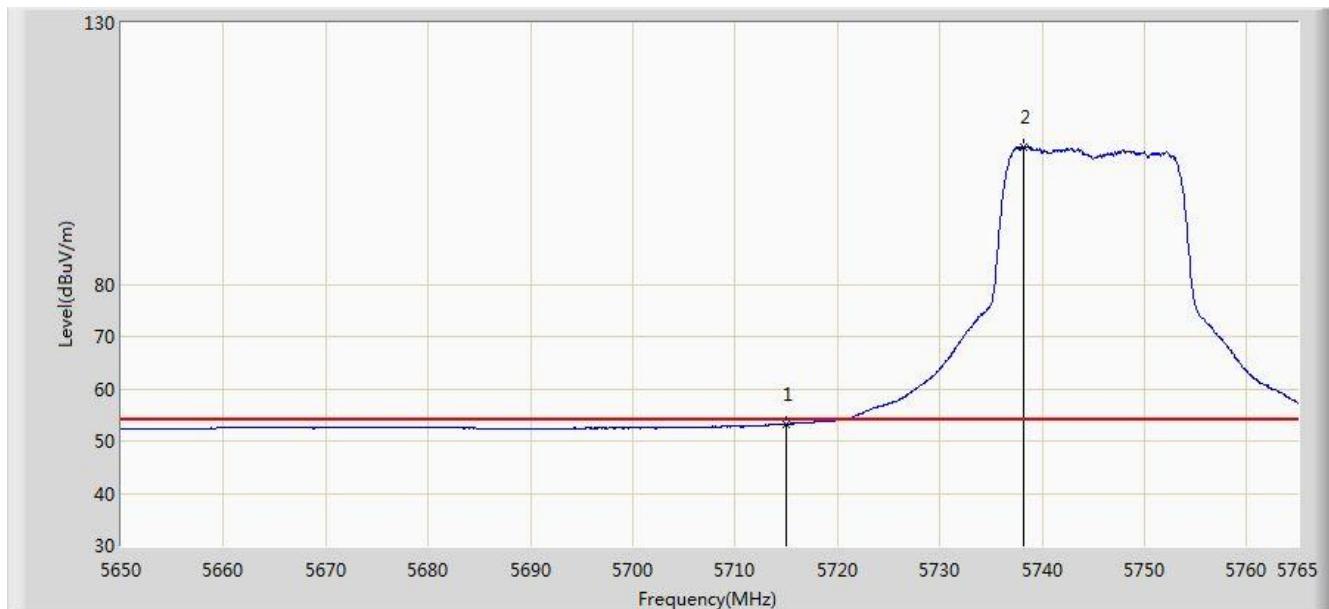


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5714.745	72.022	68.262	-1.978	74.000	3.760	PK
2			5715.000	67.032	63.271	-6.968	74.000	3.761	PK
3			5723.830	76.911	73.124	-1.289	78.200	3.786	PK
4			5725.000	74.088	70.297	-4.112	78.200	3.791	PK
5	*		5740.103	121.870	118.033	N/A	N/A	3.837	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 16:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5745MHz Ant 1 + 2	

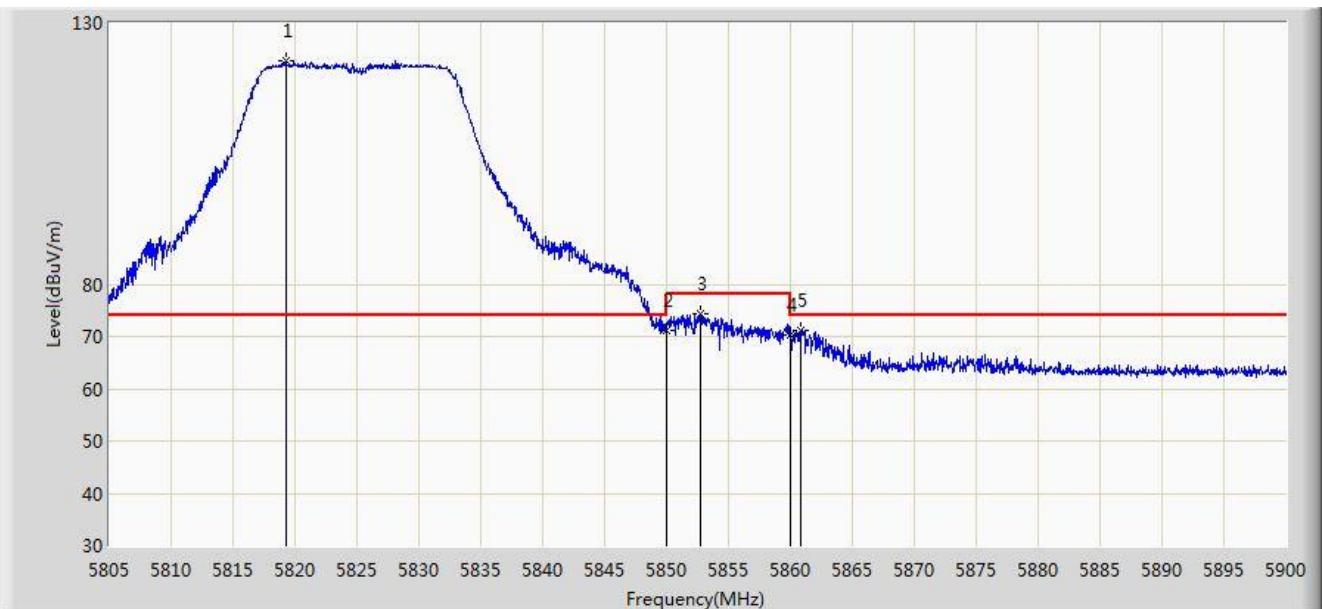


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	53.254	49.493	-0.746	54.000	3.761	AV
2	*	*	5738.263	106.283	102.451	N/A	N/A	3.833	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 17:05
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5825MHz Ant 1 + 2	

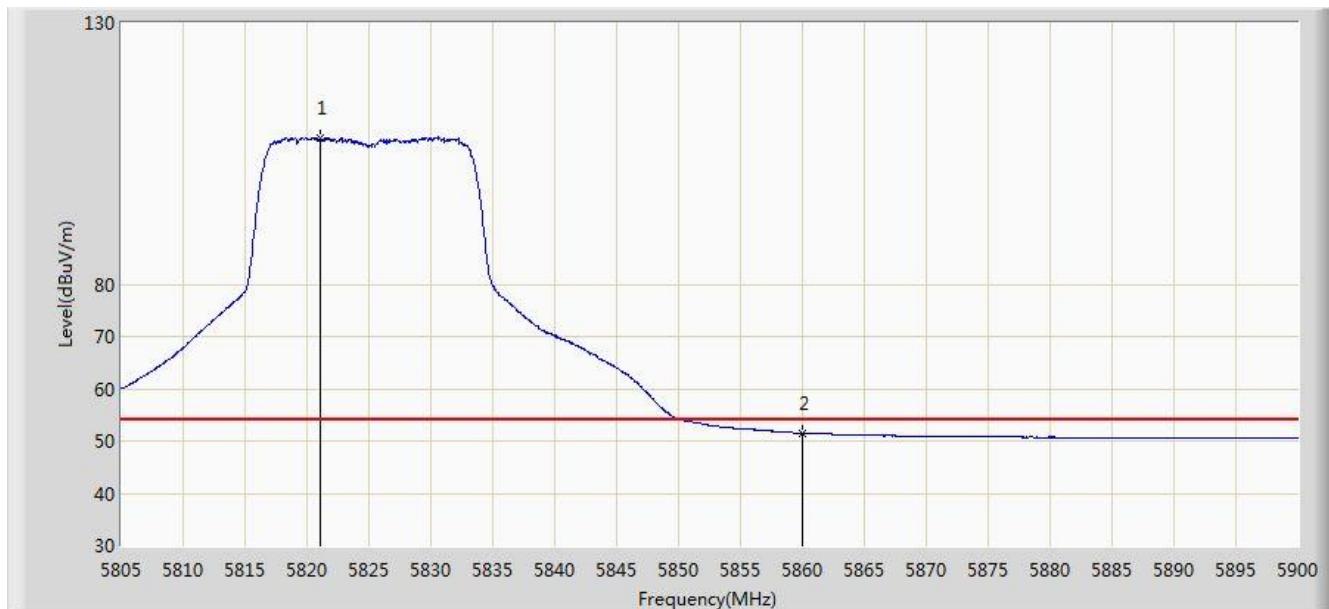


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5819.250	122.810	118.818	N/A	N/A	3.991	PK
2			5850.000	71.281	67.224	-6.919	78.200	4.058	PK
3			5852.785	74.438	70.379	-3.762	78.200	4.059	PK
4			5860.000	70.225	66.162	-3.775	74.000	4.064	PK
5			5860.812	71.304	67.240	-2.696	74.000	4.064	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 17:07
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5825MHz Ant 1 + 2	

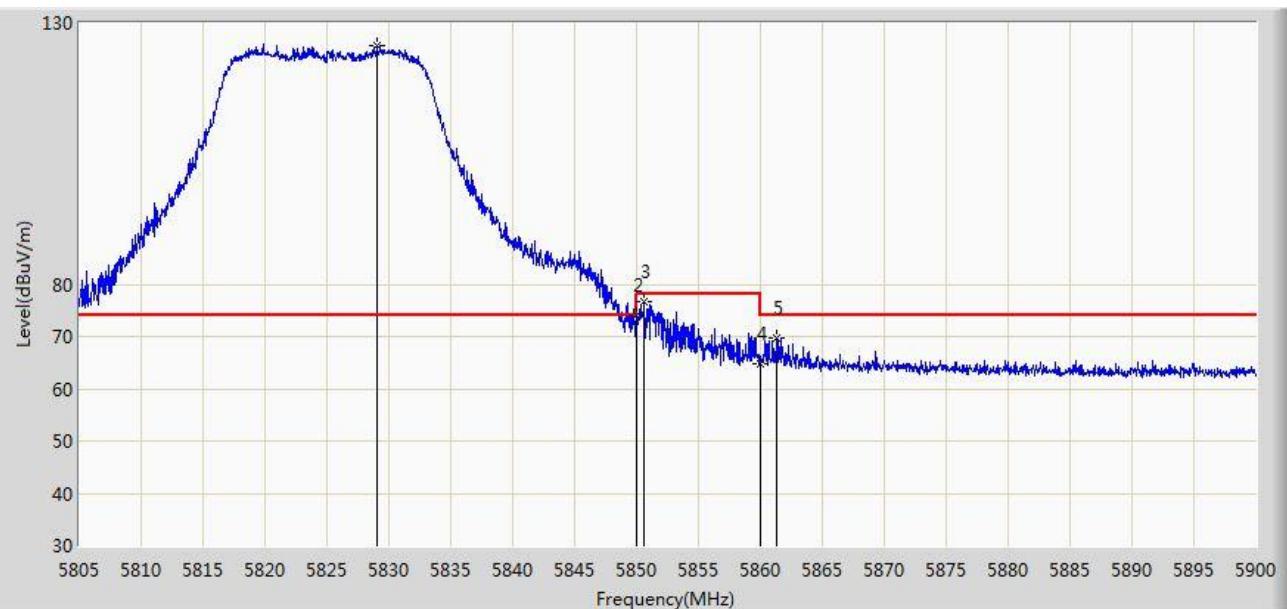


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1		*	5821.103	107.851	103.855	N/A	N/A	3.997	AV
2			5860.000	51.513	47.450	-2.487	54.000	4.064	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 17:02
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5825MHz Ant 1 + 2	

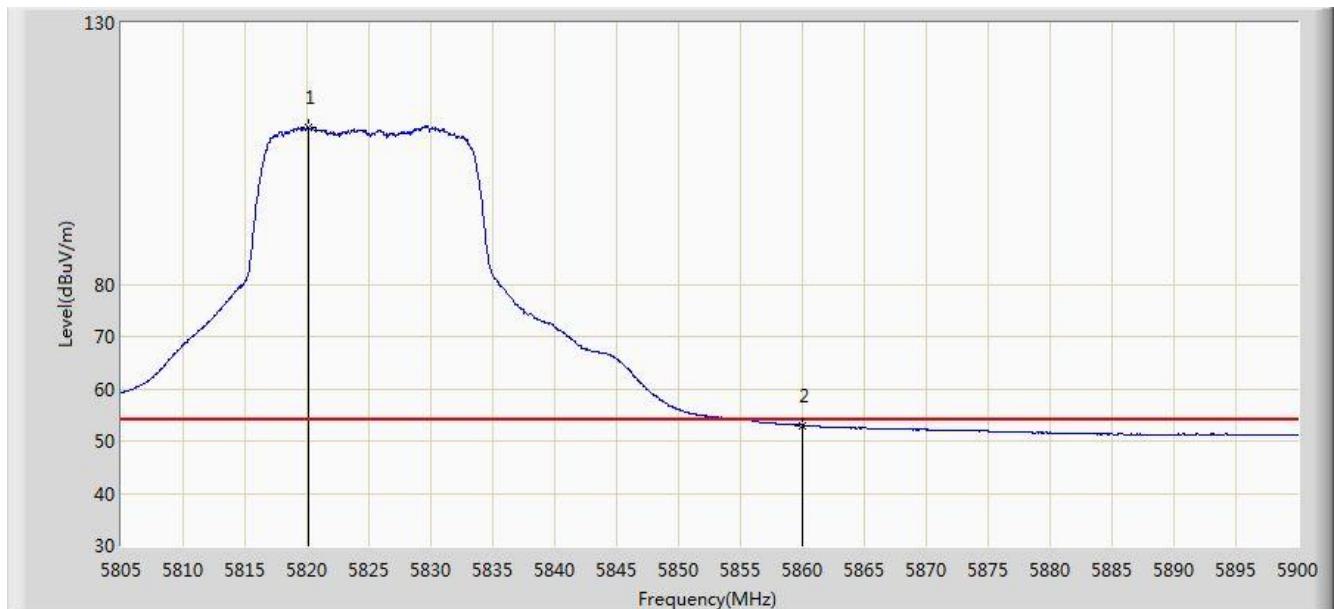


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5829.083	125.644	121.629	N/A	N/A	4.015	PK
2			5850.000	74.053	69.996	-4.147	78.200	4.058	PK
3			5850.600	76.541	72.484	-1.659	78.200	4.058	PK
4			5860.000	64.927	60.864	-9.073	74.000	4.064	PK
5			5861.335	69.631	65.567	-4.369	74.000	4.064	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 17:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5825MHz Ant 1 + 1	

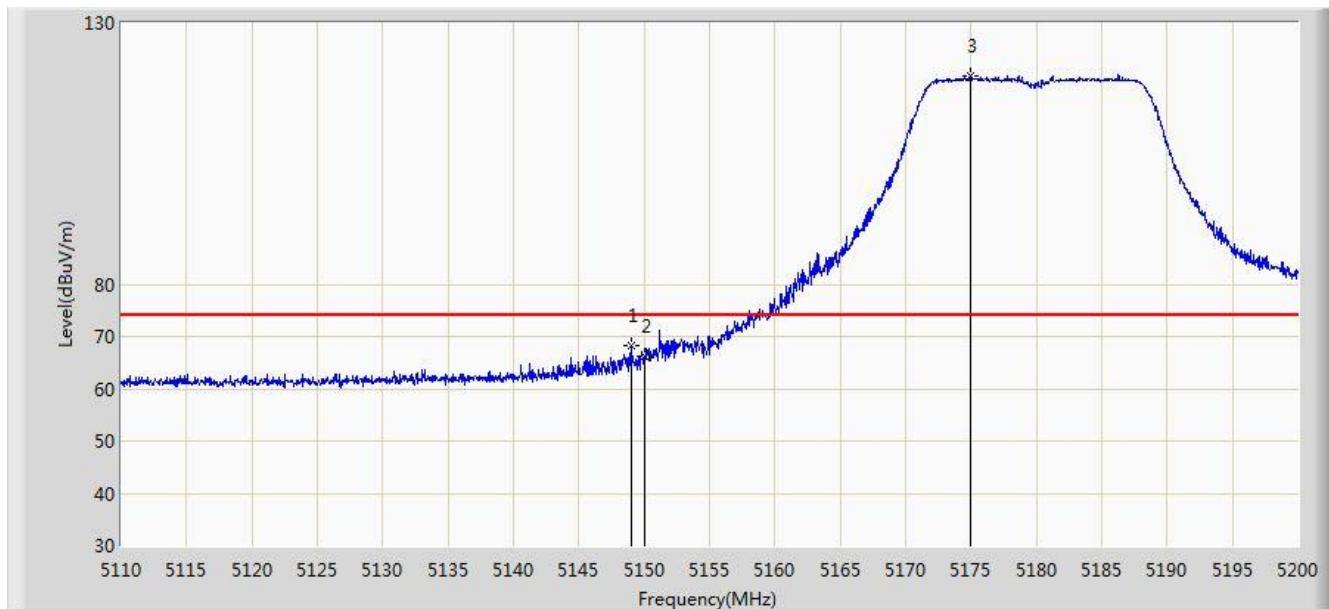


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1		*	5820.152	110.117	106.123	N/A	N/A	3.994	AV
2			5860.000	53.031	48.968	-0.969	54.000	4.064	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 17:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz Ant 1 + 2	

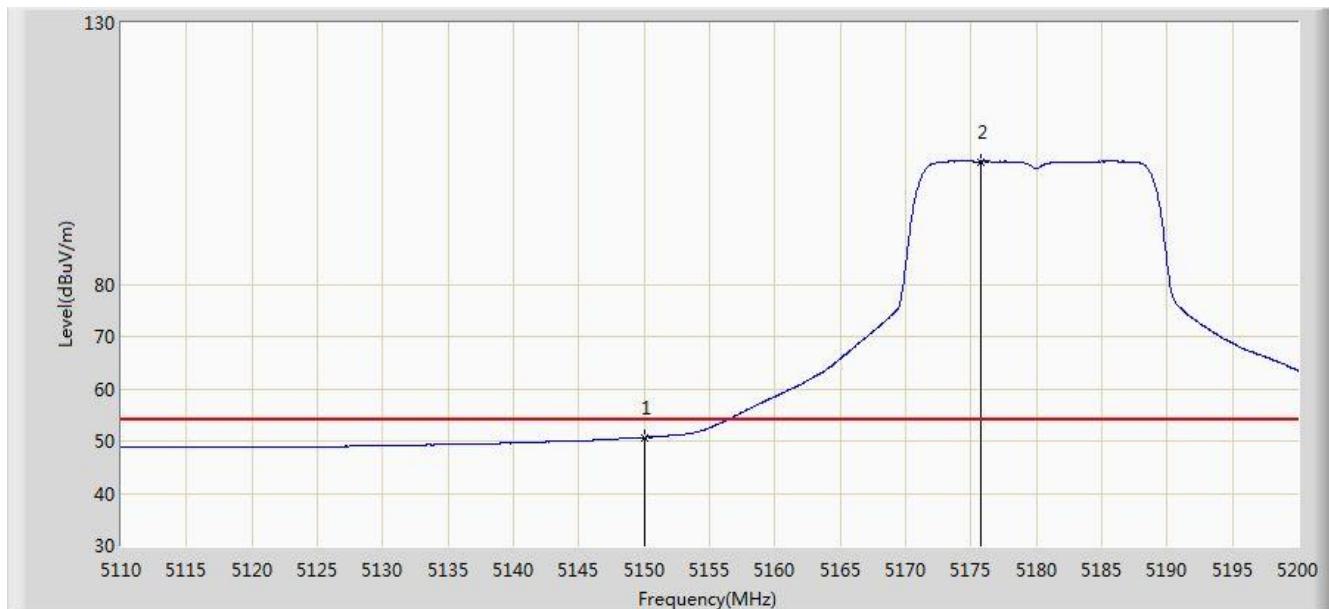


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5148.970	68.218	64.909	-5.782	74.000	3.308	PK
2			5150.000	66.190	62.881	-7.810	74.000	3.309	PK
3	*	*	5174.935	119.818	116.541	N/A	N/A	3.278	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 17:17
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz Ant 1 + 1	

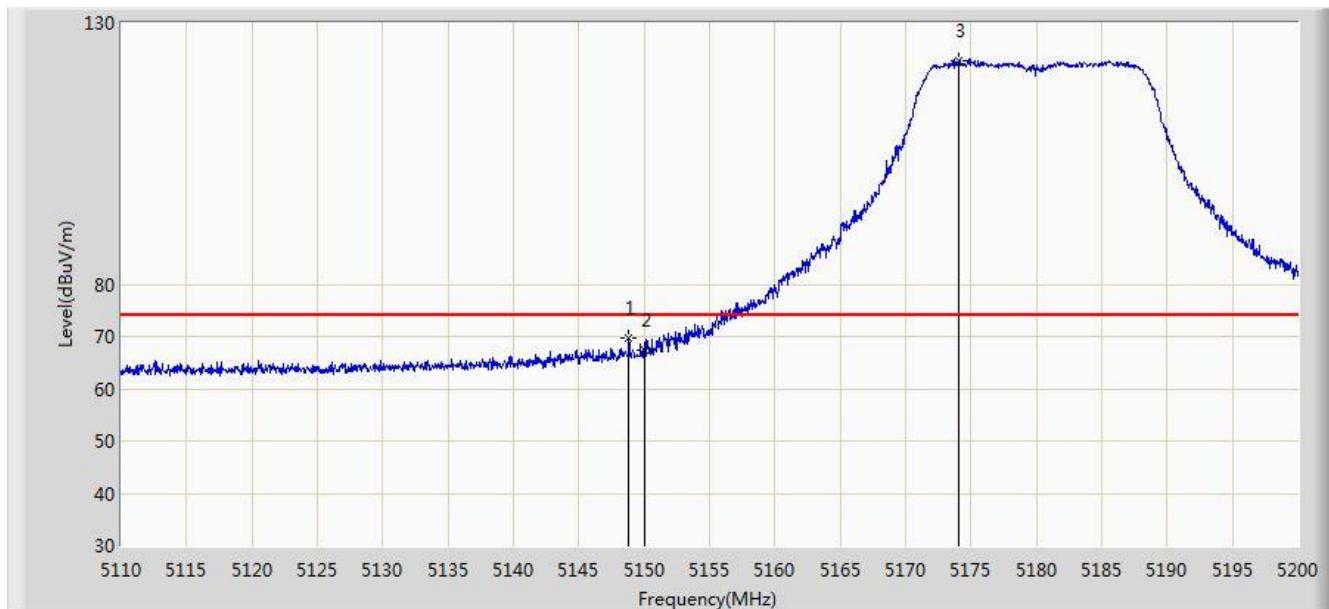


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	50.694	47.385	-3.306	54.000	3.309	AV
2	*		5175.745	103.475	100.198	N/A	N/A	3.277	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 17:11
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz Ant 1 + 1	

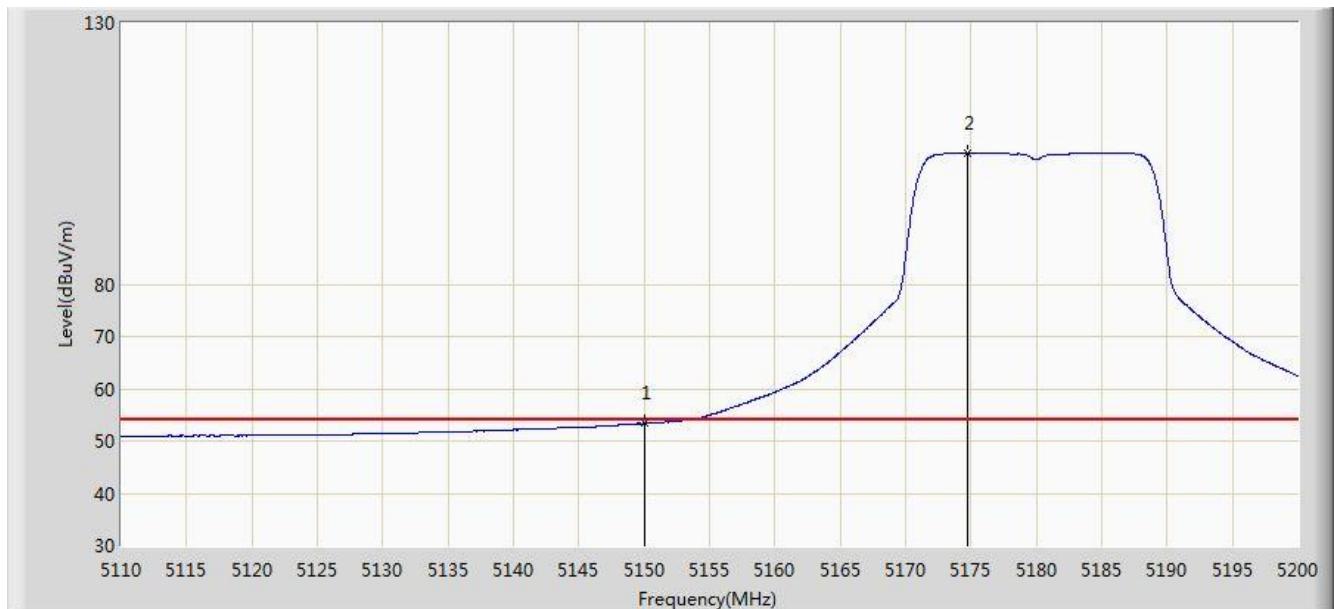


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5148.835	69.751	66.442	-4.249	74.000	3.309	PK
2			5150.000	67.358	64.049	-6.642	74.000	3.309	PK
3	*		5174.080	122.747	119.469	N/A	N/A	3.278	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 17:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5180MHz Ant 1 + 1	

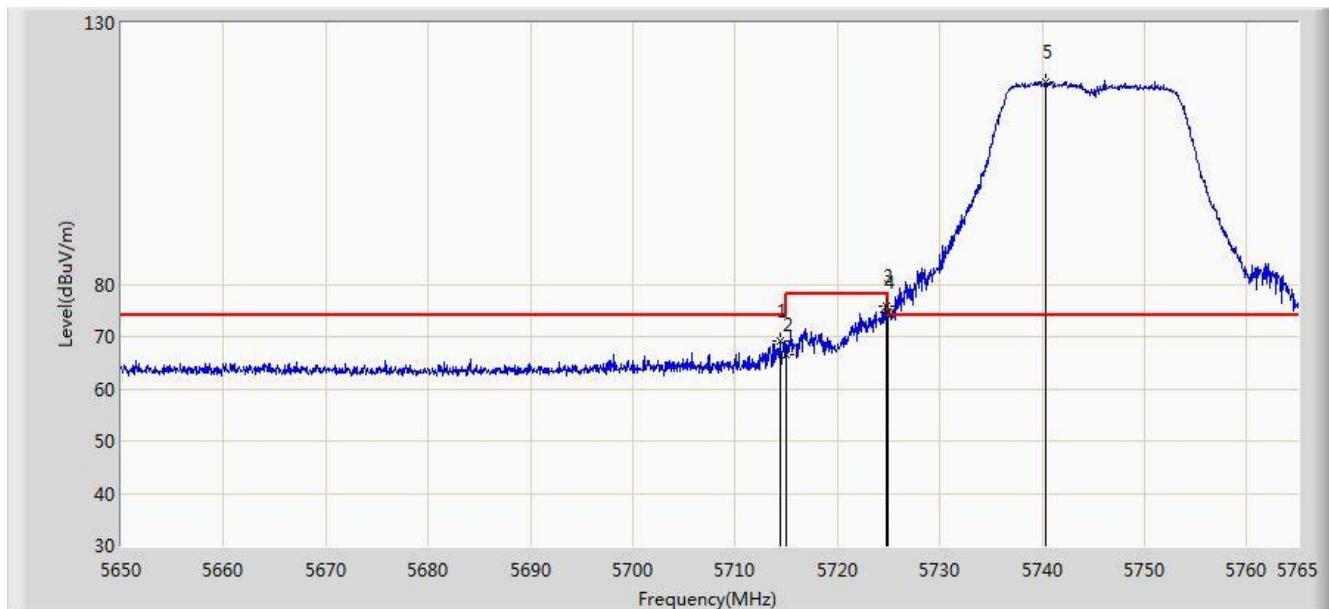


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1			5150.000	53.358	50.049	-0.642	54.000	3.309	AV
2		*	5174.755	105.193	101.916	N/A	N/A	3.277	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 17:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5745MHz Ant 1 + 2	

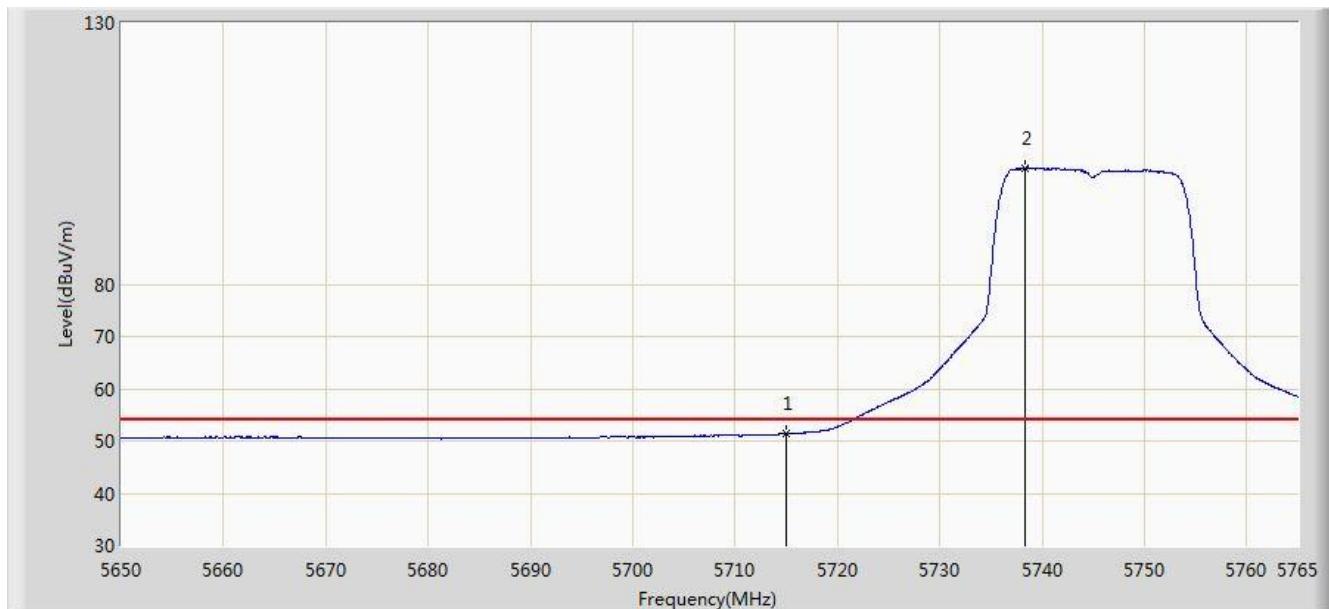


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5714.458	69.225	65.466	-4.775	74.000	3.759	PK
2			5715.000	66.650	62.889	-7.350	74.000	3.761	PK
3			5724.808	75.916	72.126	-2.284	78.200	3.790	PK
4			5725.000	74.702	70.911	-3.498	78.200	3.791	PK
5	*		5740.390	118.741	114.903	N/A	N/A	3.838	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 17:52
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5745MHz Ant 1 + 2	

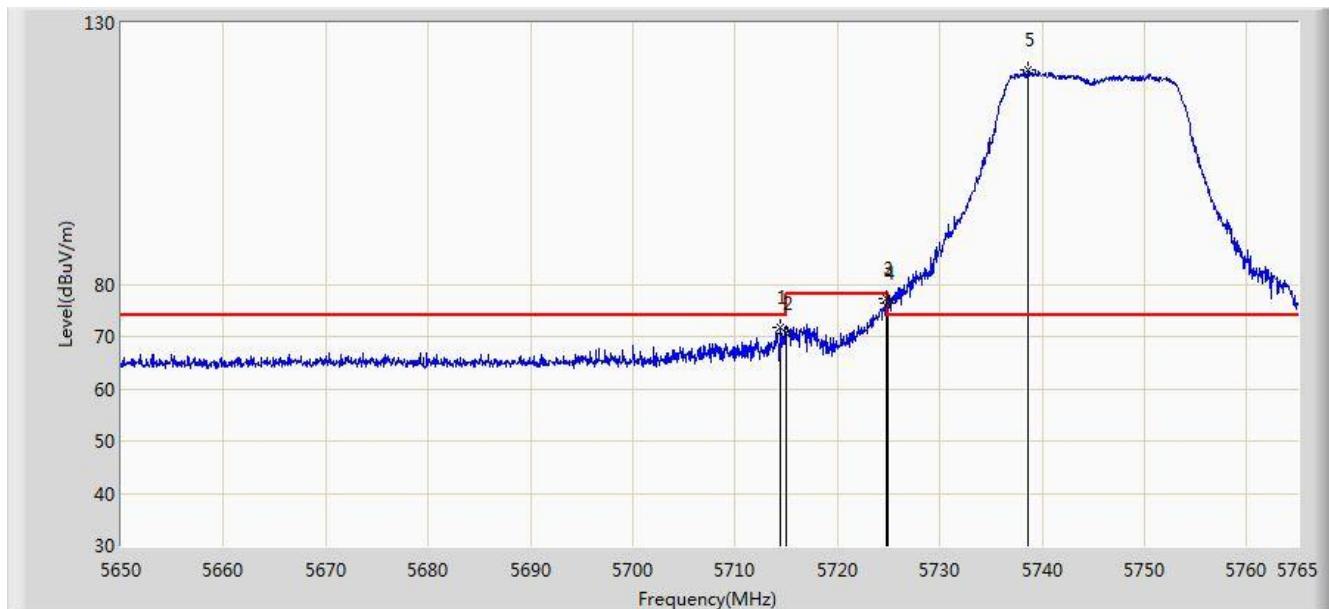


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	51.325	47.564	-2.675	54.000	3.761	AV
2	*	*	5738.320	102.238	98.406	N/A	N/A	3.833	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 17:46
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5745MHz Ant 1 + 1	

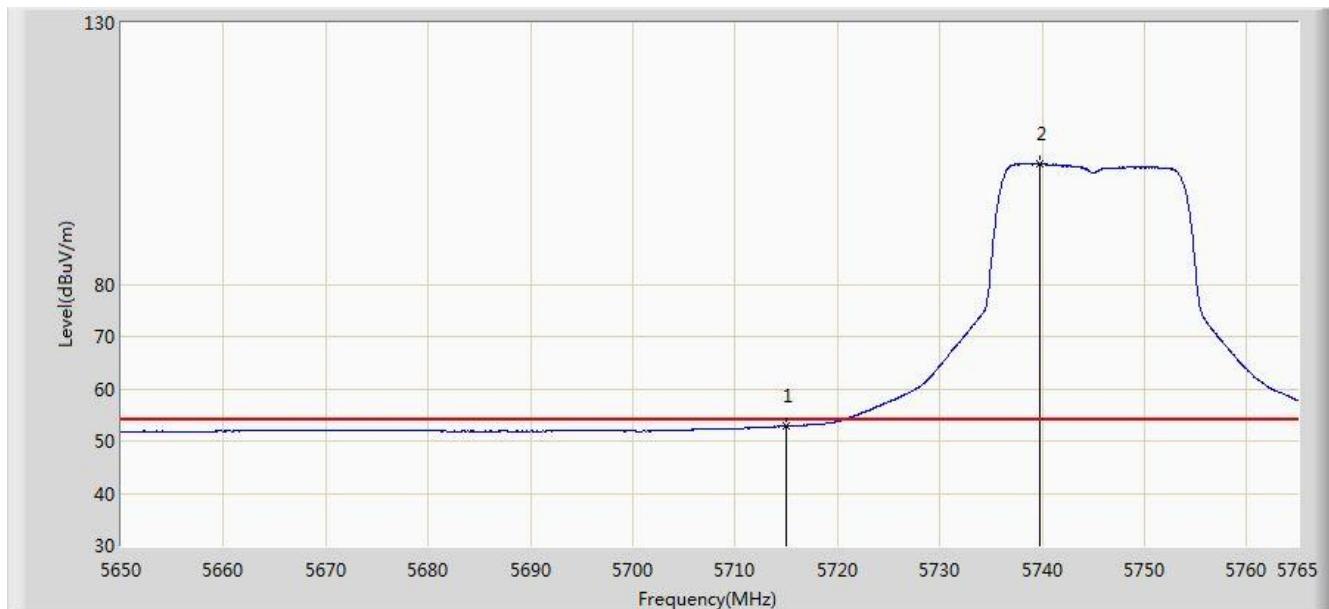


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5714.400	71.710	67.951	-2.290	74.000	3.759	PK
2			5715.000	70.584	66.823	-3.416	74.000	3.761	PK
3			5724.808	77.383	73.593	-0.817	78.200	3.790	PK
4			5725.000	76.354	72.563	-1.846	78.200	3.791	PK
5	*		5738.665	120.901	117.068	N/A	N/A	3.833	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 17:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5745MHz Ant 1 + 2	

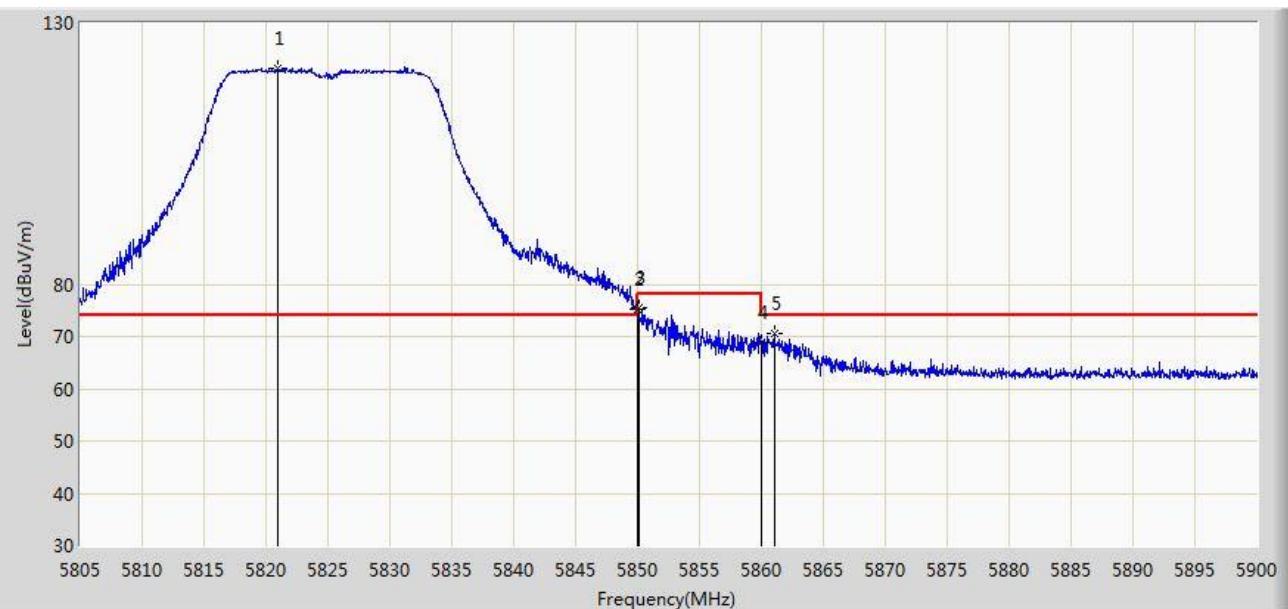


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	52.822	49.061	-1.178	54.000	3.761	AV
2	*		5739.757	103.168	99.332	N/A	N/A	3.836	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 17:58
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5825MHz Ant 1 + 2	

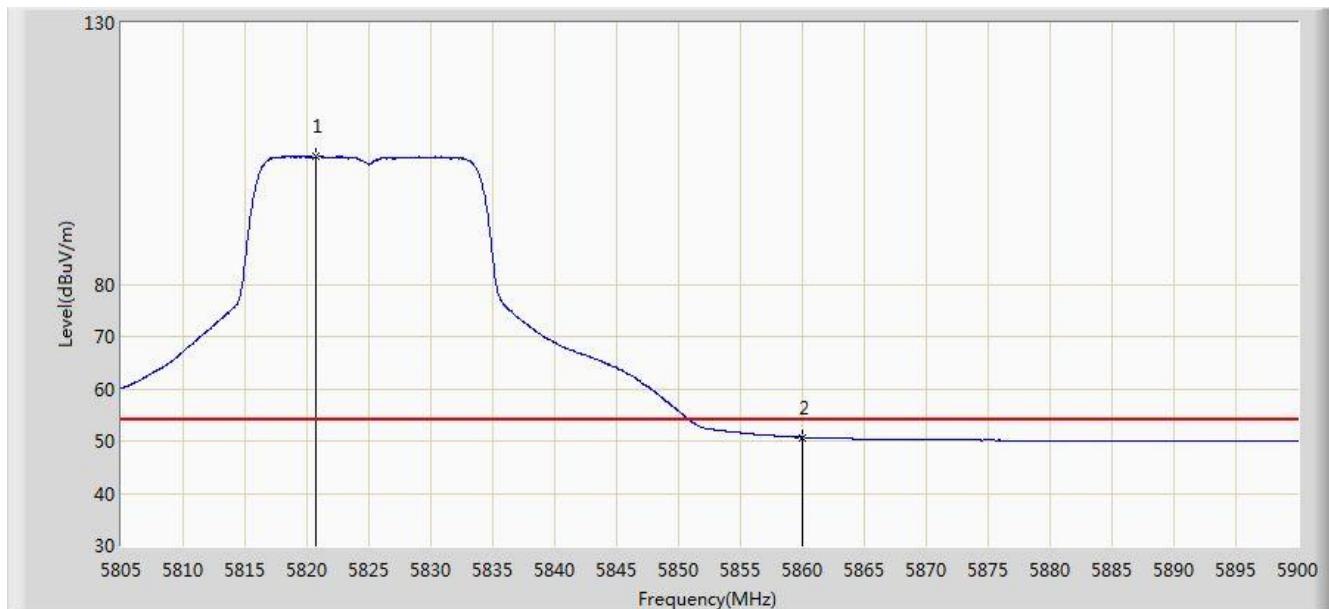


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*		5820.960	121.385	117.389	N/A	N/A	3.996	PK
2			5850.000	75.142	71.085	-3.058	78.200	4.058	PK
3			5850.078	75.461	71.404	-2.739	78.200	4.058	PK
4			5860.000	68.884	64.821	-5.116	74.000	4.064	PK
5			5861.050	70.453	66.389	-3.547	74.000	4.064	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 18:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5825MHz Ant 1 + 2	

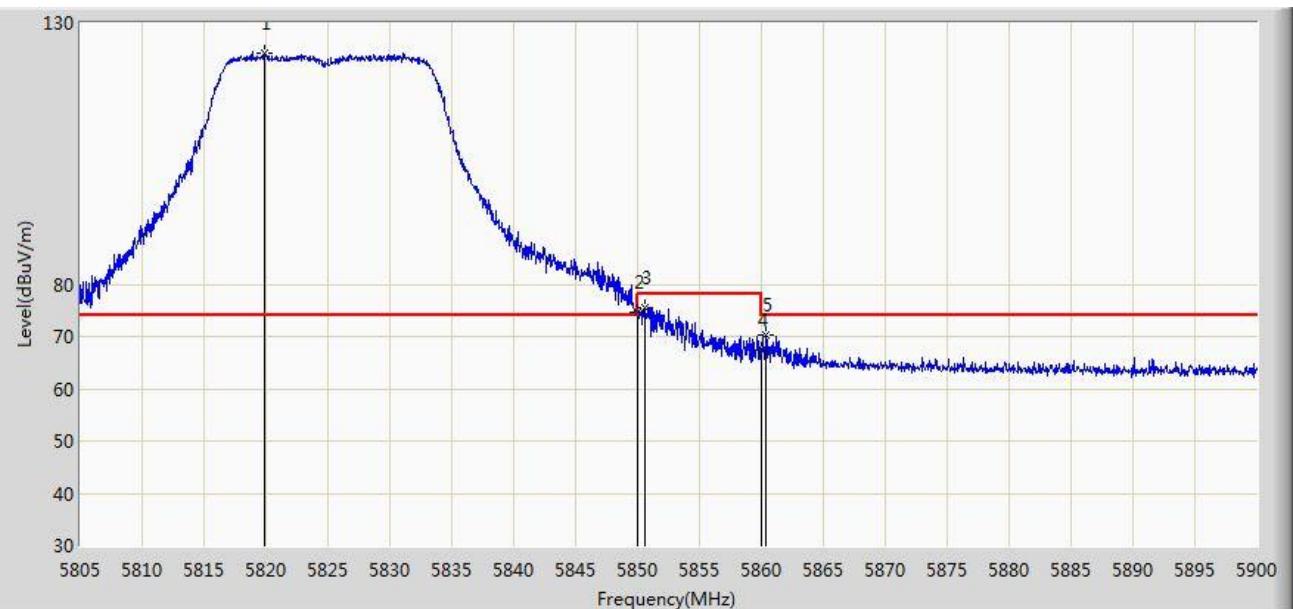


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1		*	5820.675	104.391	100.396	N/A	N/A	3.995	AV
2			5860.000	50.717	46.654	-3.283	54.000	4.064	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 17:57
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5825MHz Ant 1 + 2	

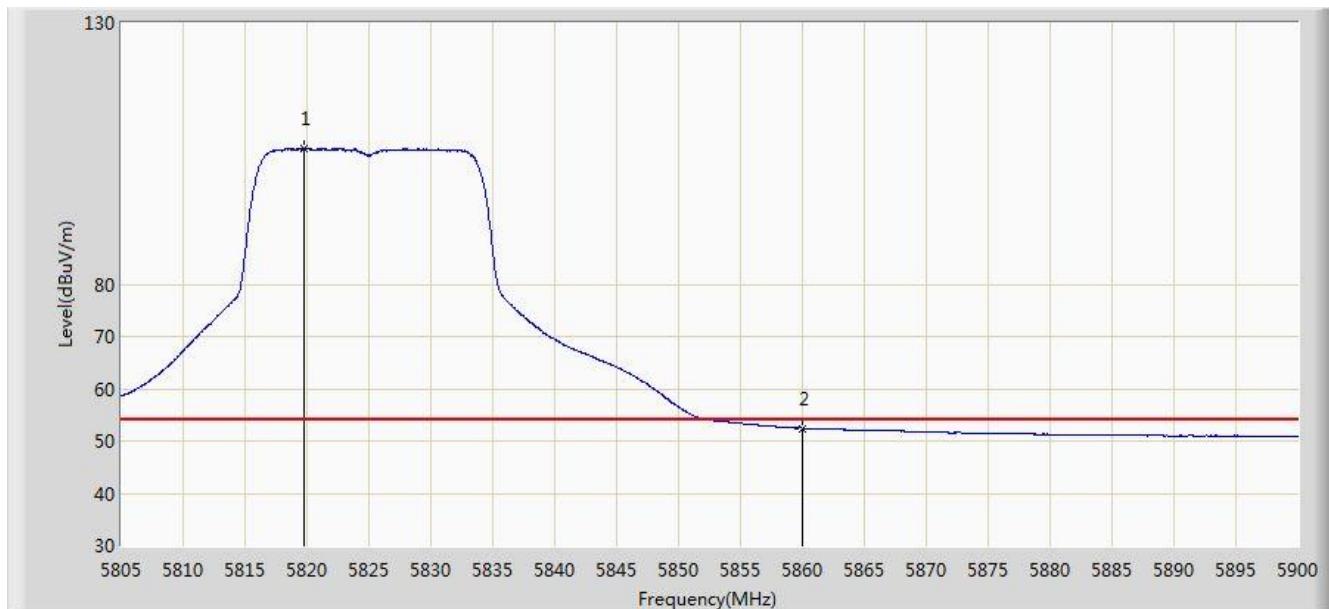


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5819.915	124.117	120.123	N/A	N/A	3.994	PK
2			5850.000	74.777	70.720	-3.423	78.200	4.058	PK
3			5850.553	75.481	71.424	-2.719	78.200	4.058	PK
4			5860.000	67.331	63.268	-6.669	74.000	4.064	PK
5			5860.385	70.392	66.328	-3.608	74.000	4.064	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 17:58
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at Channel 5825MHz Ant 1 + 2	

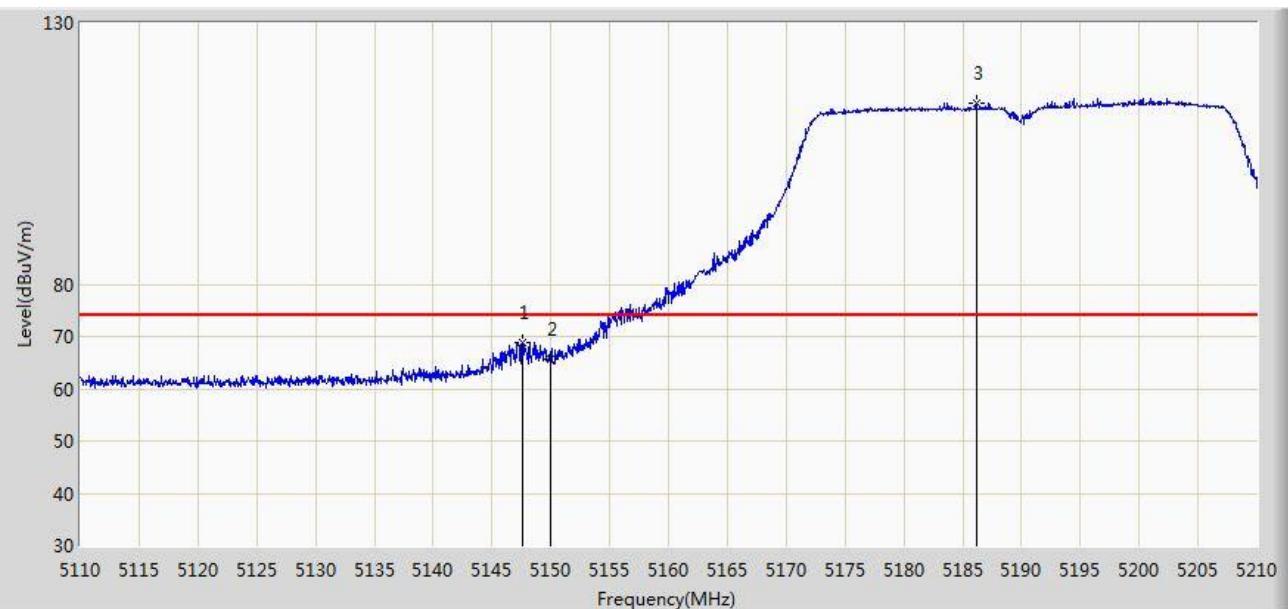


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5819.772	105.976	101.983	N/A	N/A	3.993	AV
2			5860.000	52.423	48.360	-1.577	54.000	4.064	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 19:25
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz Ant 1 + 2	

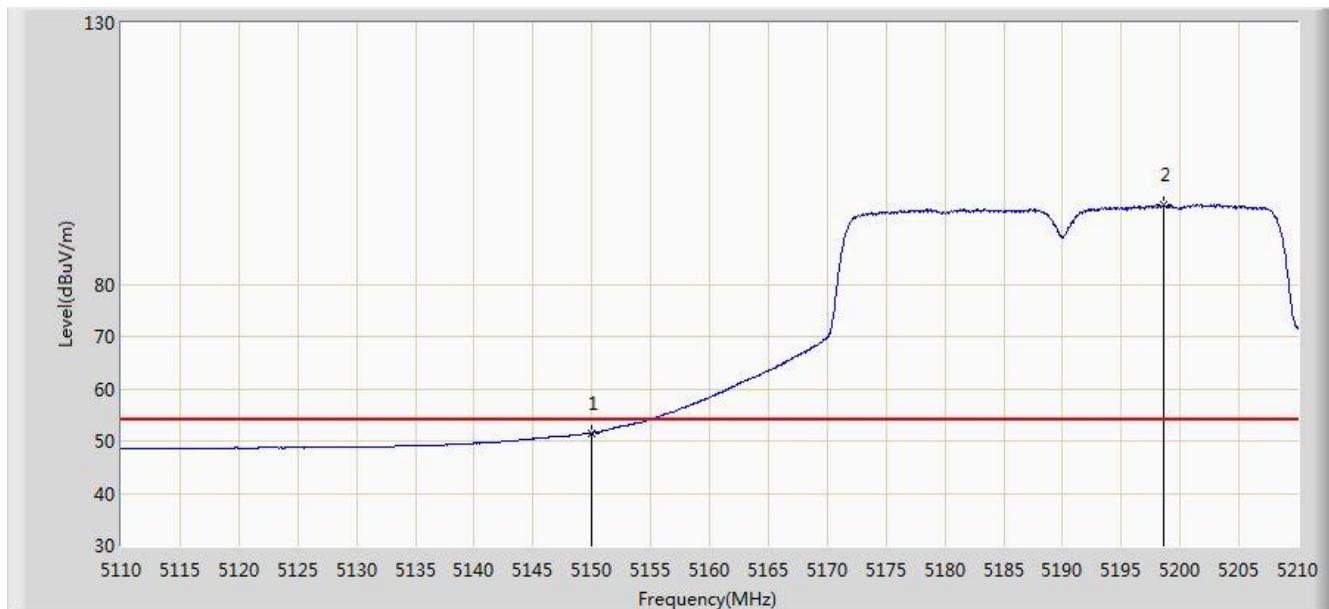


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5147.600	68.917	65.608	-5.083	74.000	3.308	PK
2			5150.000	65.568	62.259	-8.432	74.000	3.309	PK
3		*	5186.150	114.696	111.430	N/A	N/A	3.266	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 19:26
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz Ant 1 + 2	

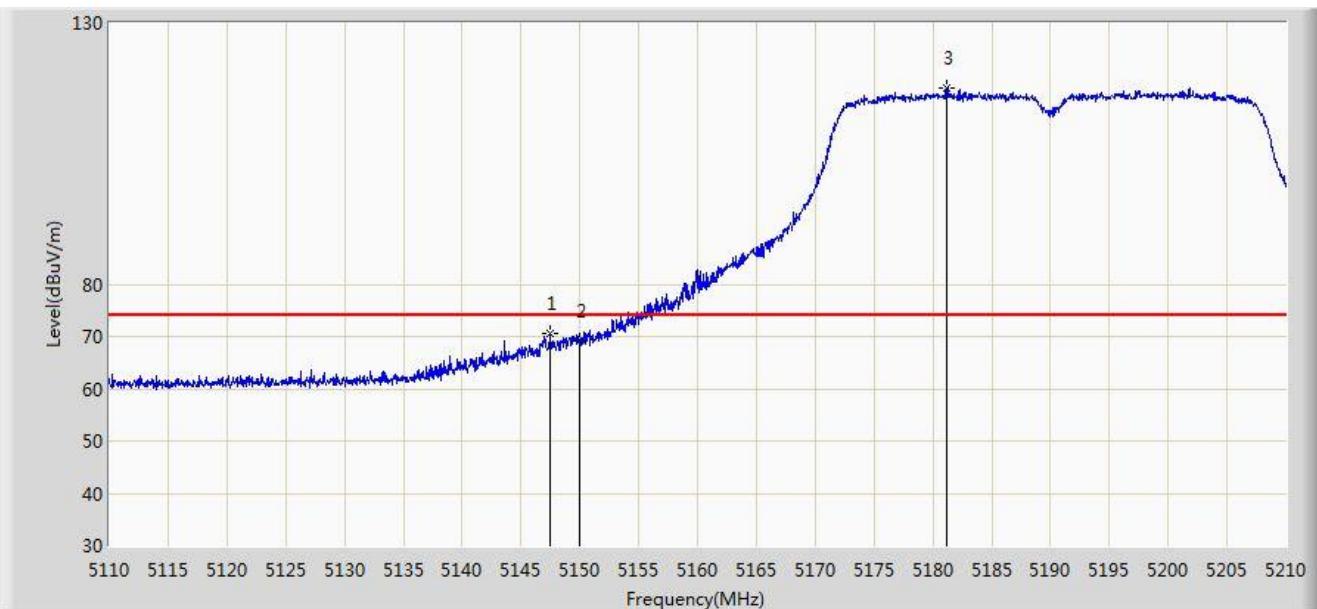


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1			5150.000	51.551	48.242	-2.449	54.000	3.309	AV
2	*		5198.600	95.089	91.838	N/A	N/A	3.252	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 19:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz Ant 1 + 2	

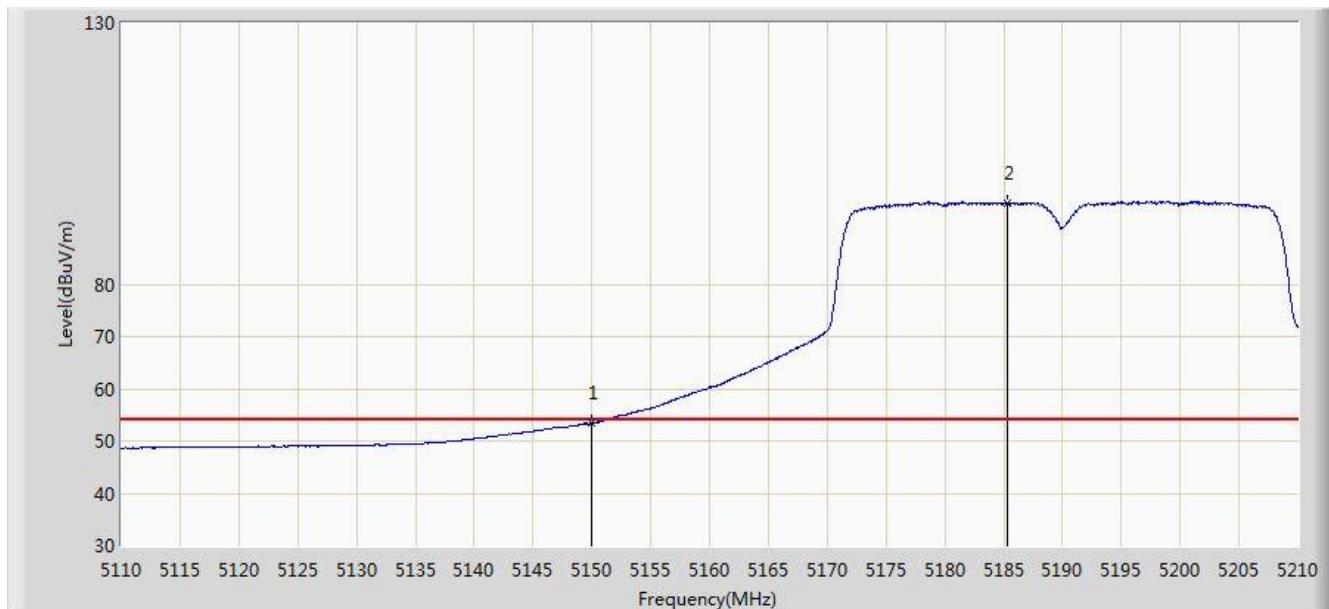


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5147.500	70.497	67.188	-3.503	74.000	3.308	PK
2			5150.000	69.206	65.897	-4.794	74.000	3.309	PK
3	*	*	5181.150	117.500	114.228	N/A	N/A	3.272	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 19:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5190MHz Ant 1 + 2	

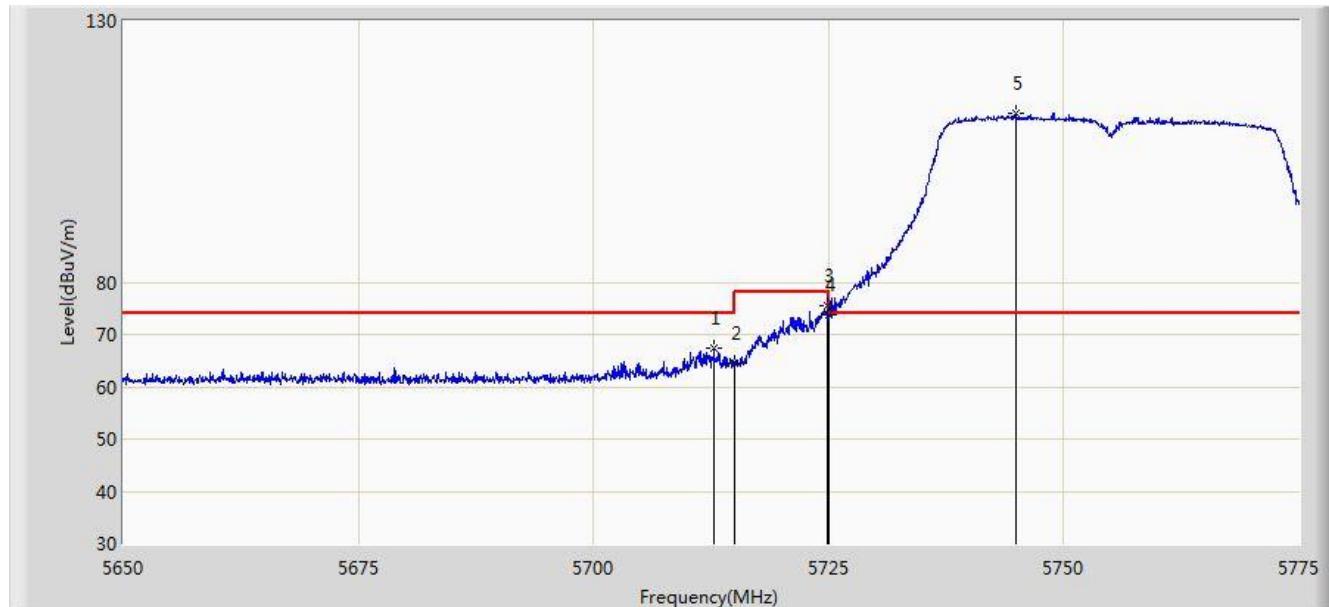


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	53.437	50.128	-0.563	54.000	3.309	AV
2	*	*	5185.300	95.425	92.158	N/A	N/A	3.267	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 19:32
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5755MHz Ant 1 + 2	

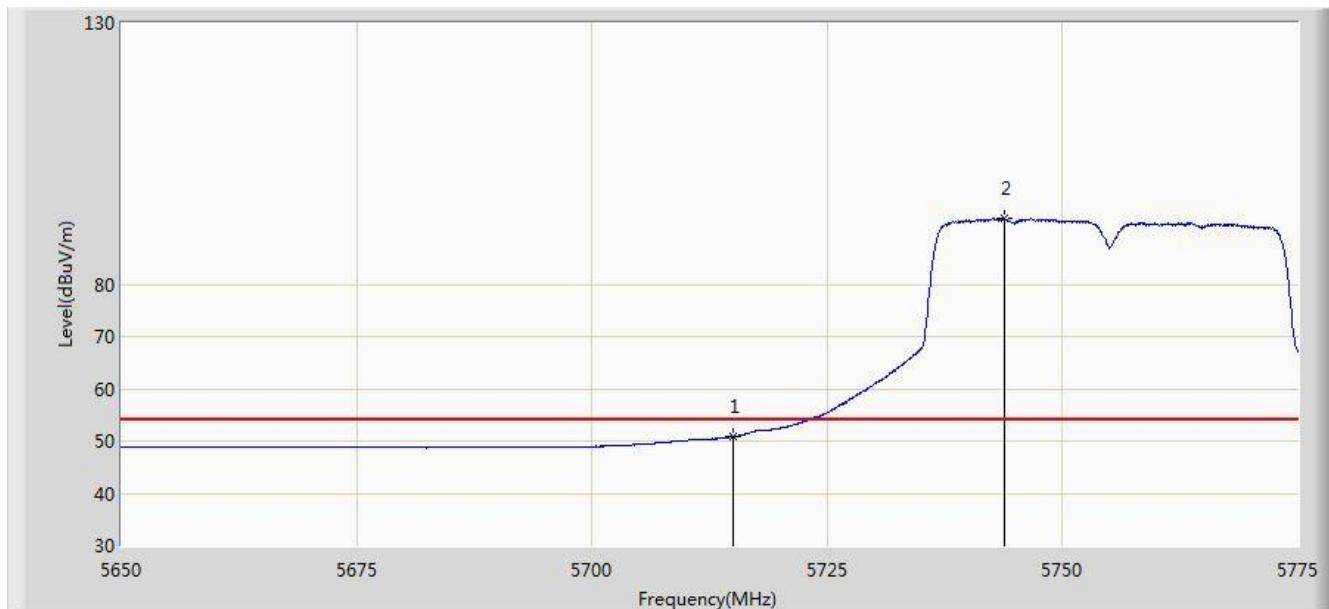


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5712.812	67.503	63.749	-6.497	74.000	3.755	PK
2			5715.000	64.379	60.618	-9.621	74.000	3.761	PK
3			5724.937	75.609	71.818	-2.591	78.200	3.791	PK
4			5725.000	73.737	69.946	-4.463	78.200	3.791	PK
5	*		5744.875	112.176	108.324	N/A	N/A	3.853	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 19:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5755MHz Ant 1 + 2	

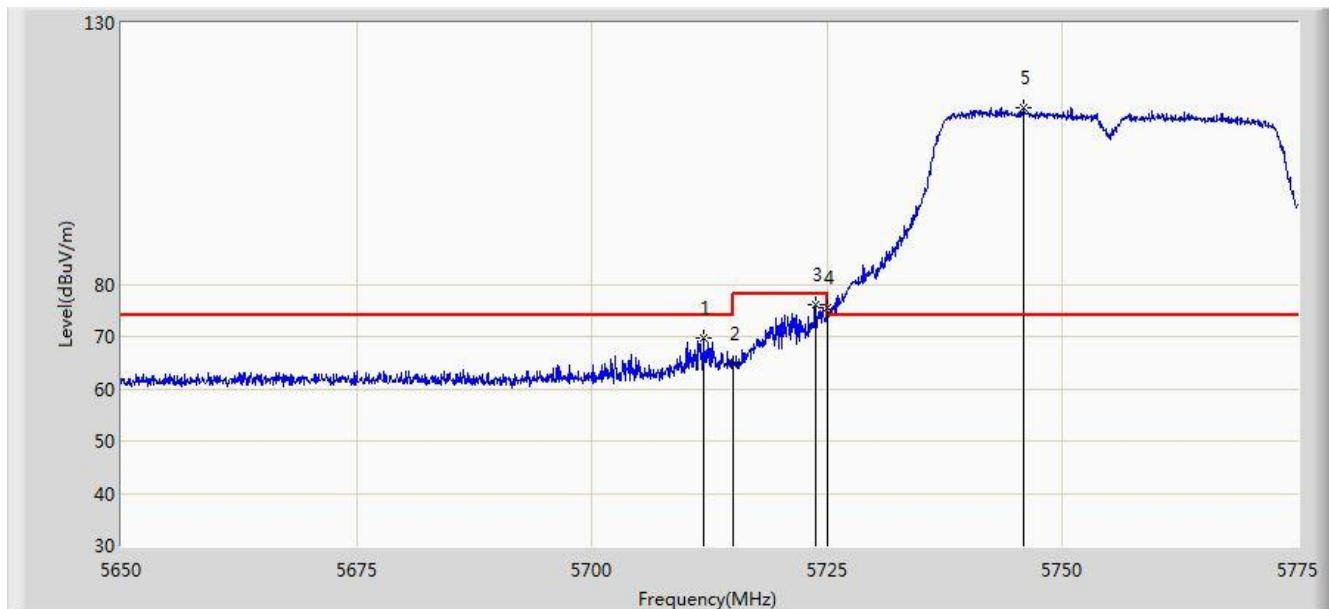


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	50.829	47.068	-3.171	54.000	3.761	AV
2	*		5743.812	92.543	88.695	N/A	N/A	3.848	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 19:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5755MHz Ant 1 + 2	

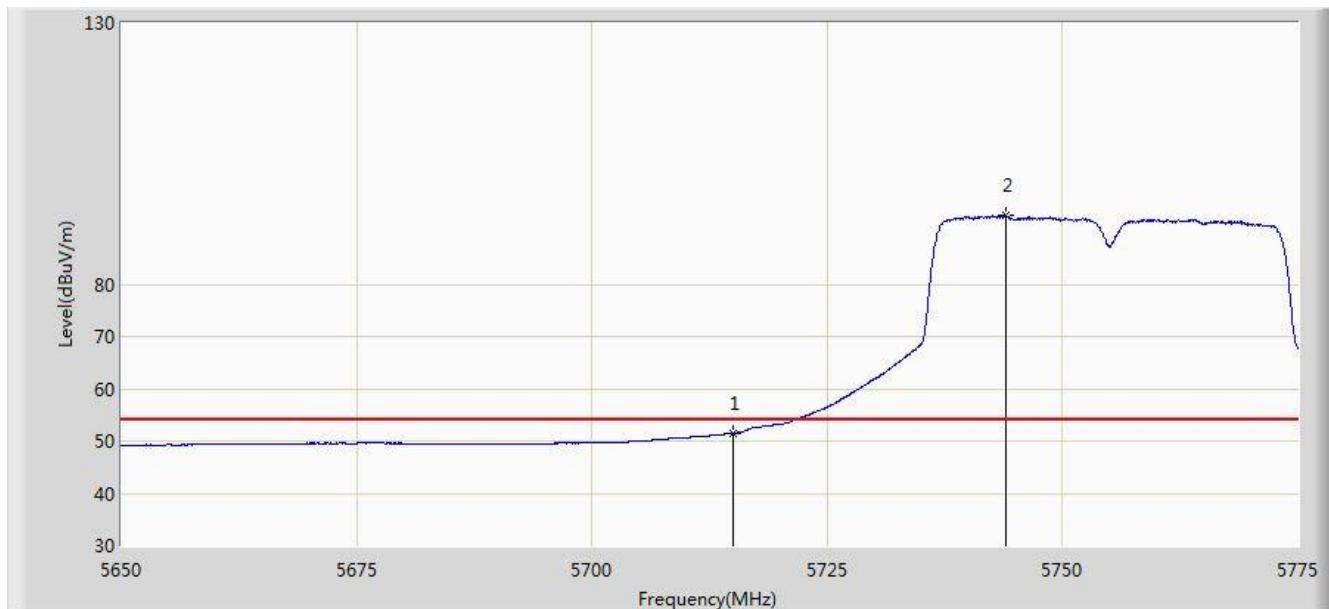


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5711.937	69.852	66.100	-4.148	74.000	3.752	PK
2			5715.000	64.916	61.155	-9.084	74.000	3.761	PK
3			5723.750	76.222	72.435	-1.978	78.200	3.786	PK
4			5725.000	75.511	71.720	-2.689	78.200	3.791	PK
5		*	5745.937	113.846	109.990	N/A	N/A	3.856	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 19:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5755MHz Ant 1 + 2	

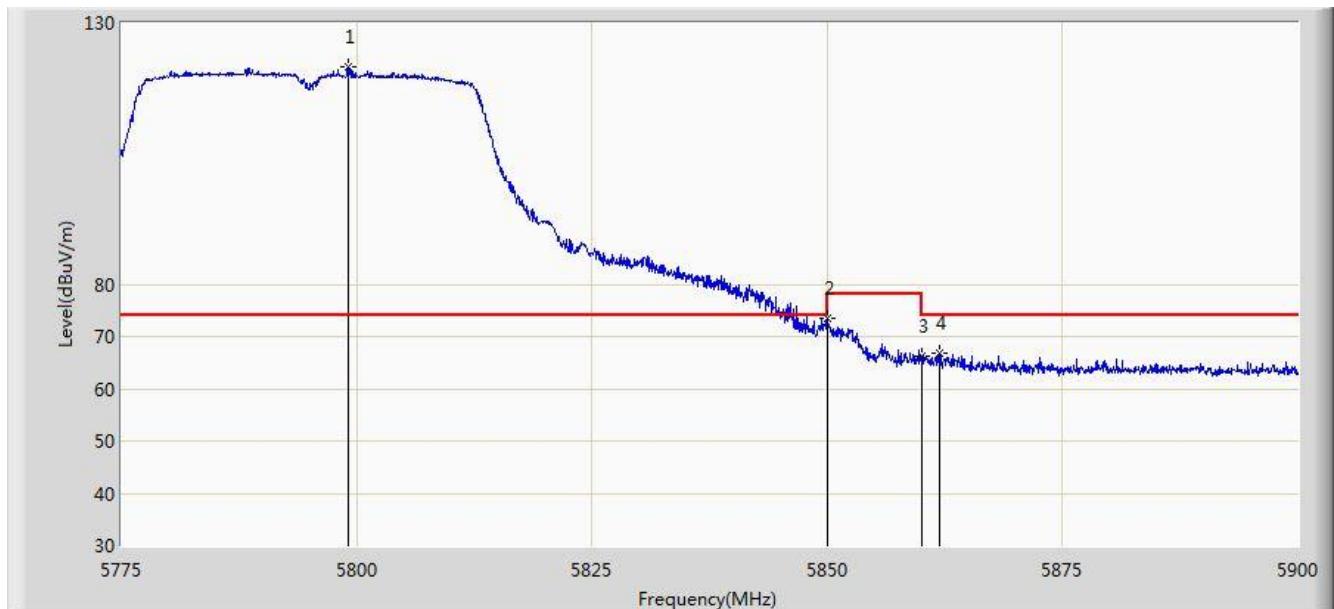


No	Flag	Marker	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	51.510	47.749	-2.490	54.000	3.761	AV
2		*	5744.000	93.097	89.248	N/A	N/A	3.849	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 19:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5795MHz Ant 1 + 2	

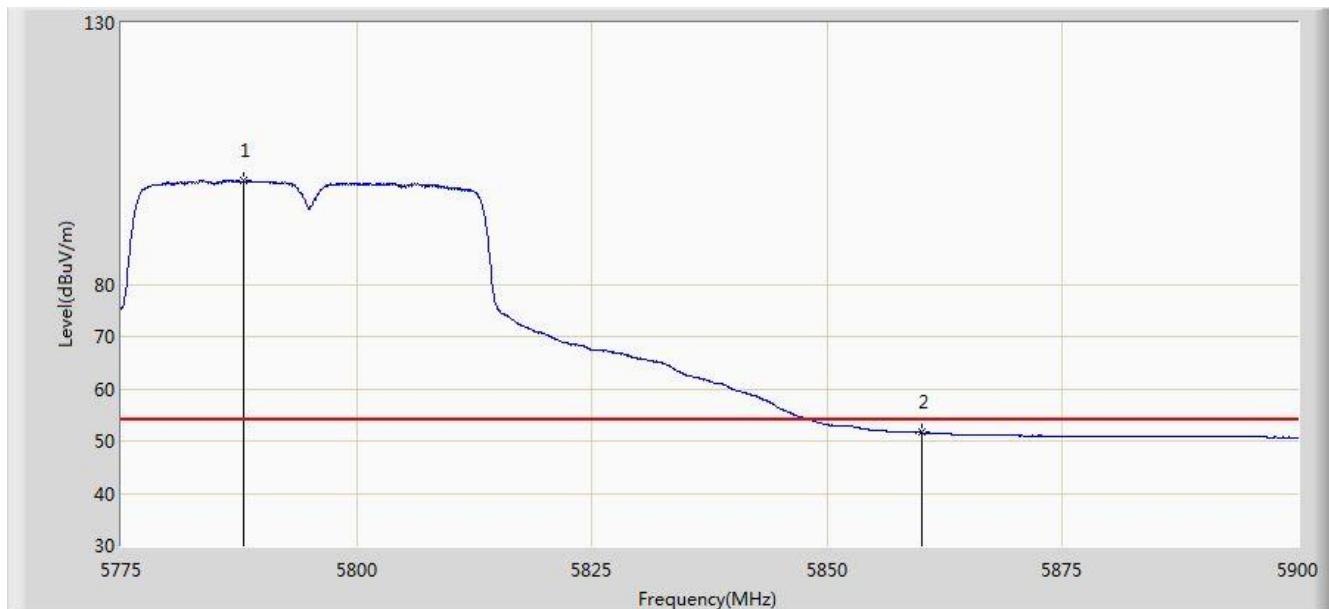


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1		*	5799.125	121.494	117.535	N/A	N/A	3.959	PK
2			5850.000	73.530	69.473	-4.670	78.200	4.058	PK
3			5860.000	66.165	62.102	-7.835	74.000	4.064	PK
4			5861.937	66.672	62.607	-7.328	74.000	4.065	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 19:41
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5795MHz Ant 1 + 2	

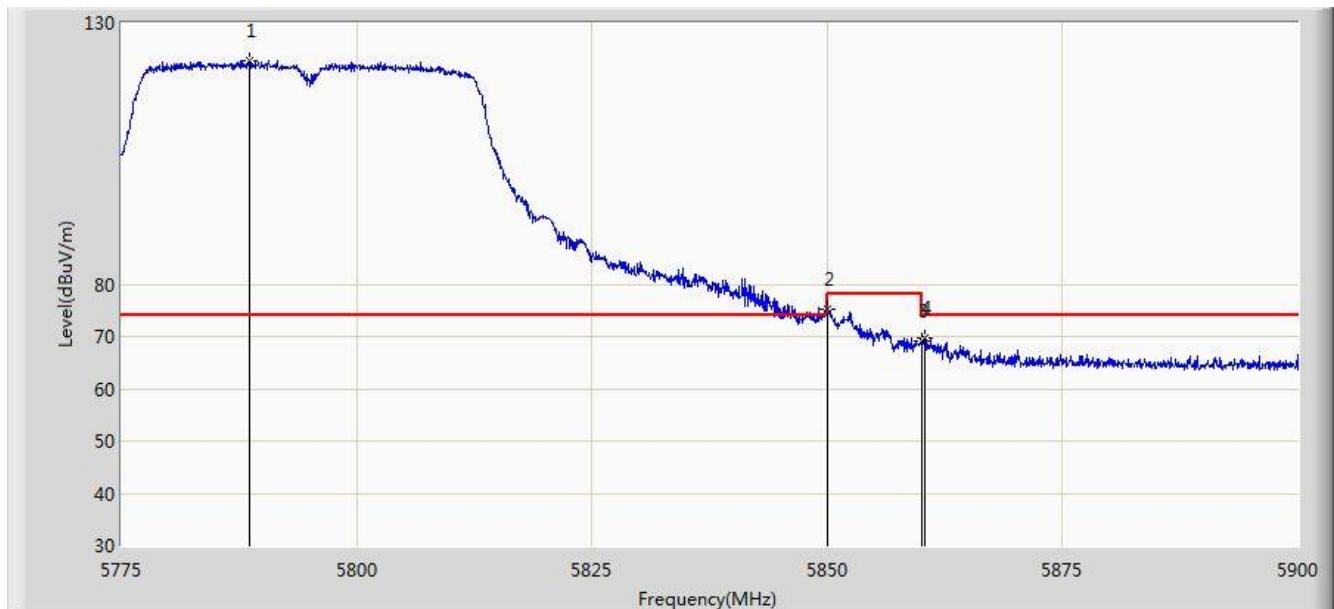


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1		*	5787.937	99.731	95.790	N/A	N/A	3.941	AV
2			5860.000	51.647	47.584	-2.353	54.000	4.064	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 19:39
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5795MHz Ant 1 + 2	

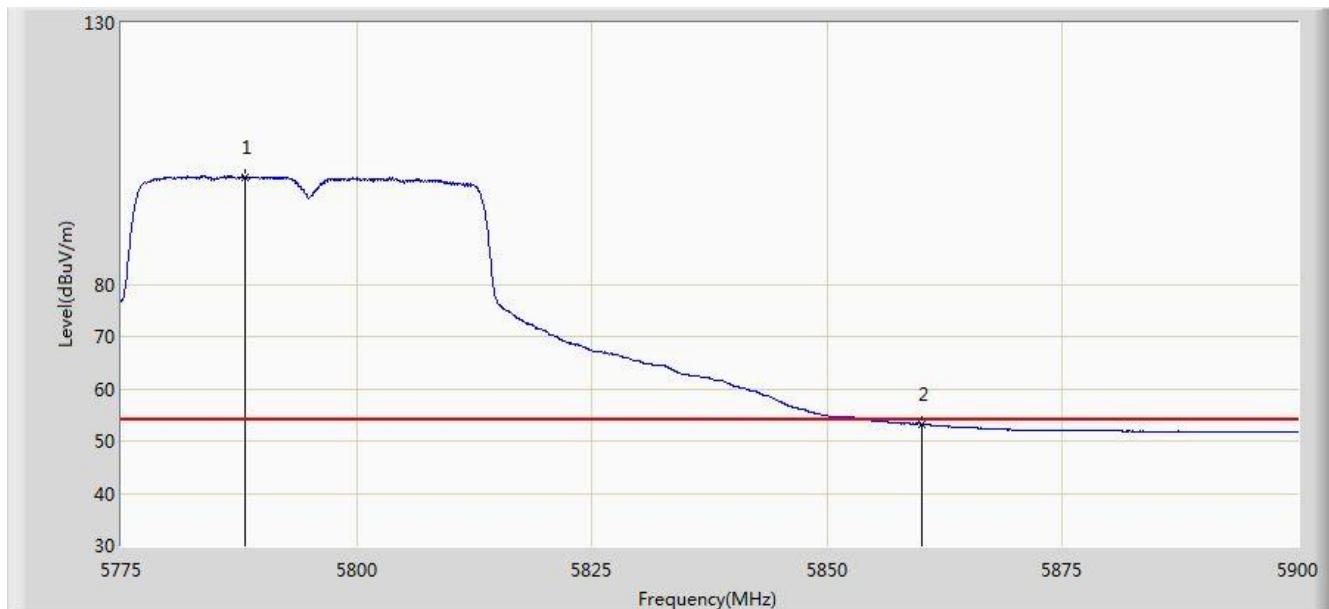


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5788.625	122.894	118.951	N/A	N/A	3.943	PK
2			5850.000	75.264	71.207	-2.936	78.200	4.058	PK
3			5860.000	69.229	65.166	-4.771	74.000	4.064	PK
4			5860.437	69.711	65.647	-4.289	74.000	4.064	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 19:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at Channel 5795MHz Ant 1 + 2	

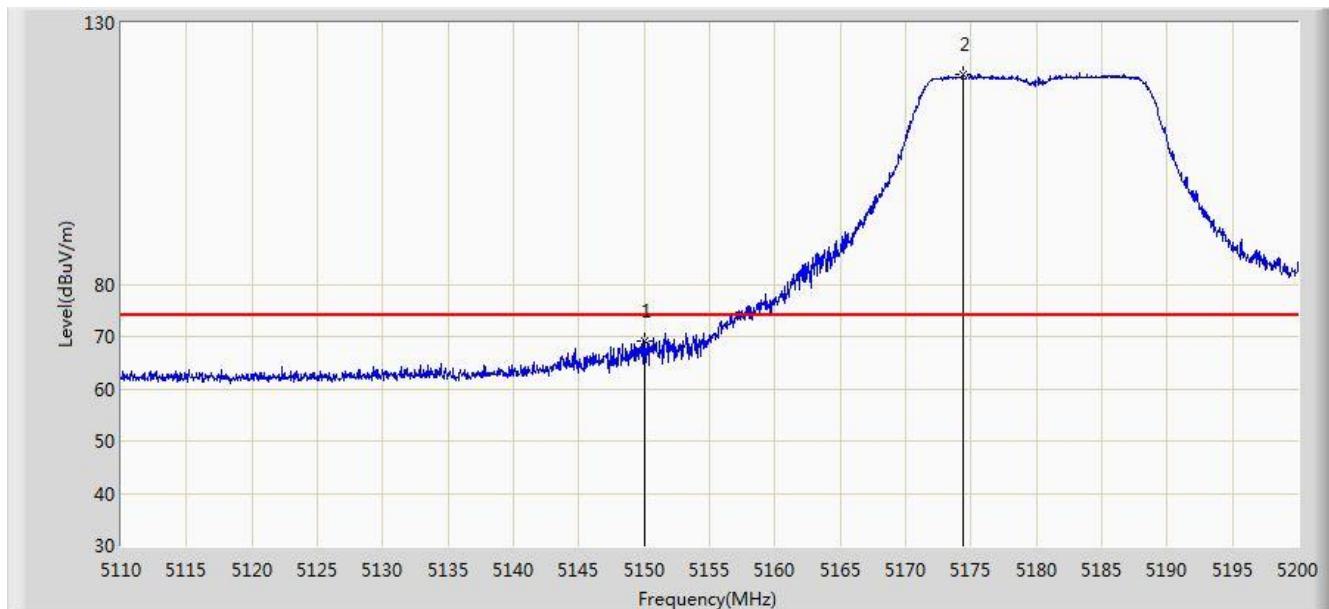


No	Flag	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5788.125	100.562	96.620	N/A	N/A	3.942	AV
2			5860.000	53.305	49.242	-0.695	54.000	4.064	AV

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 19:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz Ant 1 + 2	

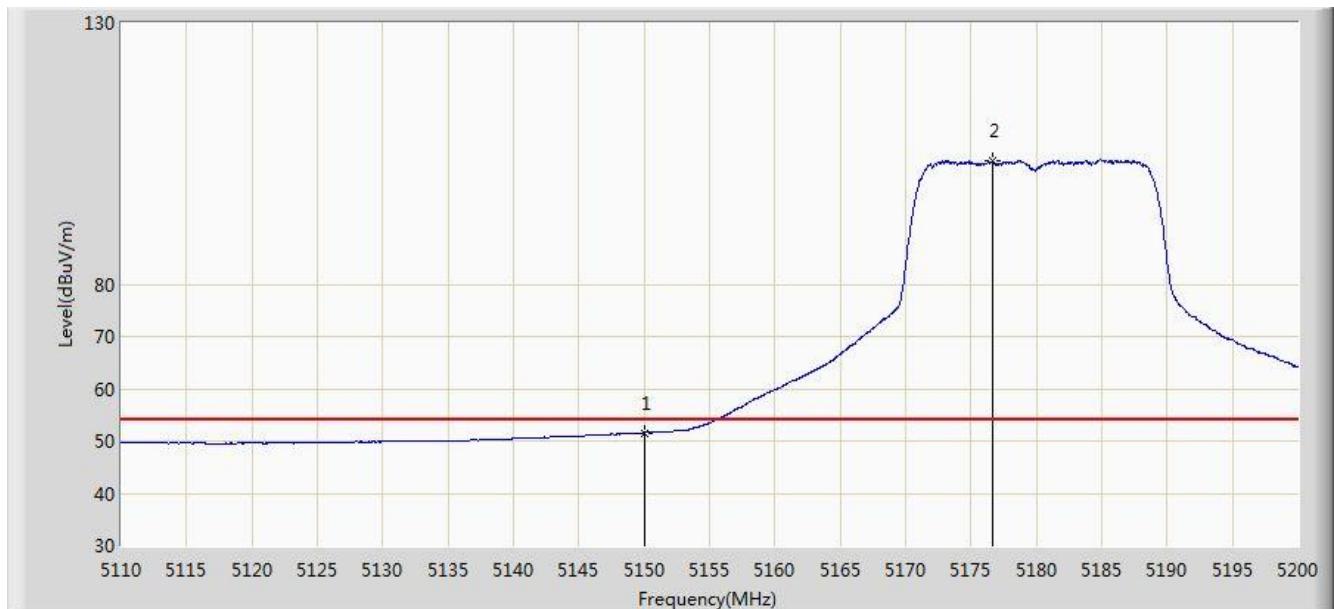


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	69.259	65.950	-4.741	74.000	3.309	PK
2		*	5174.395	120.084	116.806	N/A	N/A	3.277	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 19:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz Ant 1 + 2	

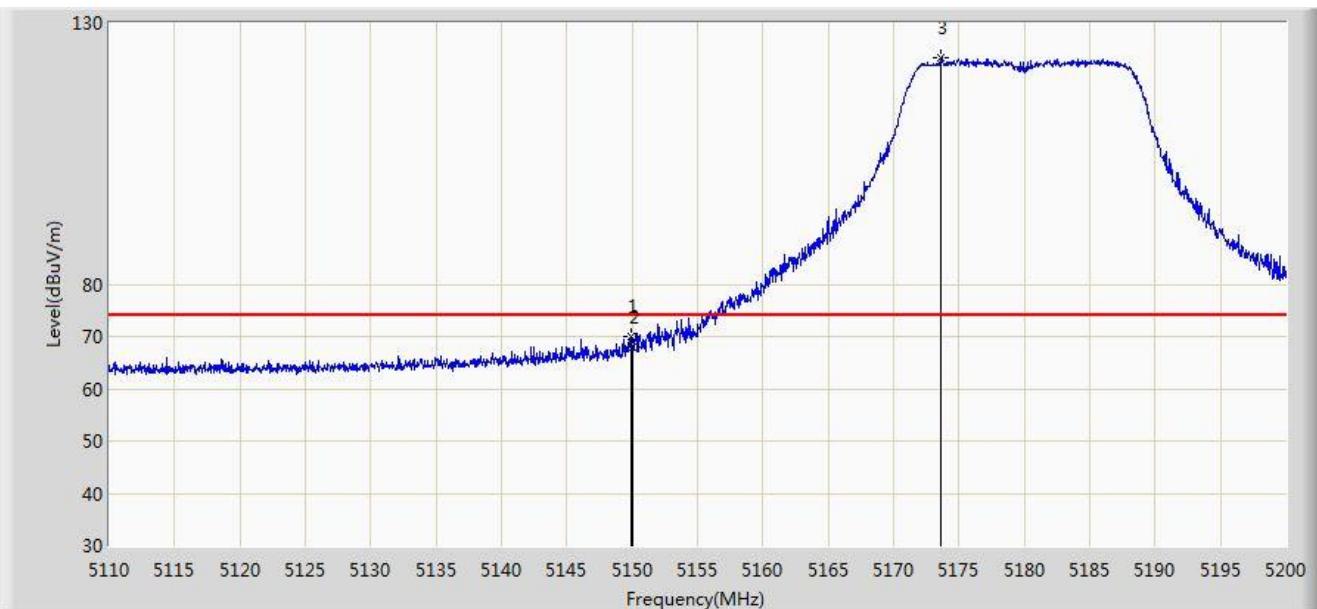


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	51.588	48.279	-2.412	54.000	3.309	AV
2		*	5176.600	103.529	100.253	N/A	N/A	3.276	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 19:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz Ant 1 + 2	

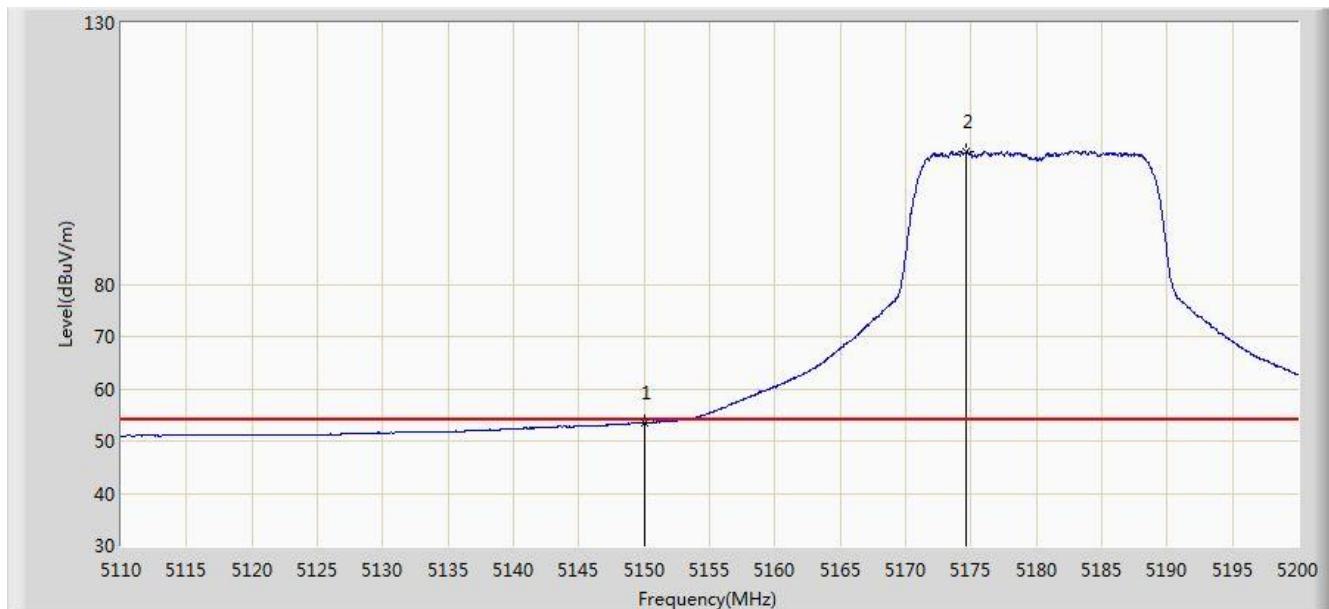


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.915	70.073	66.764	-3.927	74.000	3.309	PK
2			5150.000	67.868	64.559	-6.132	74.000	3.309	PK
3	*		5173.630	123.288	120.010	N/A	N/A	3.278	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 19:46
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz Ant 1 + 2	

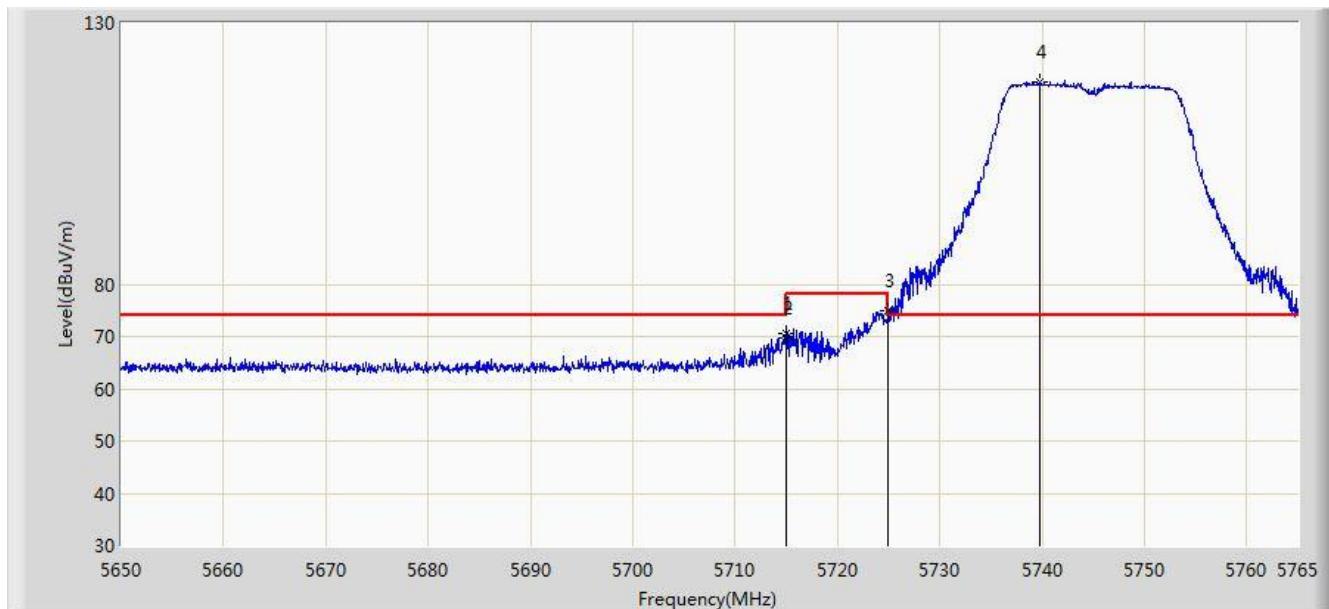


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	53.502	50.193	-0.498	54.000	3.309	AV
2		*	5174.620	105.338	102.060	N/A	N/A	3.278	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 20:09
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5745MHz Ant 1 + 2	

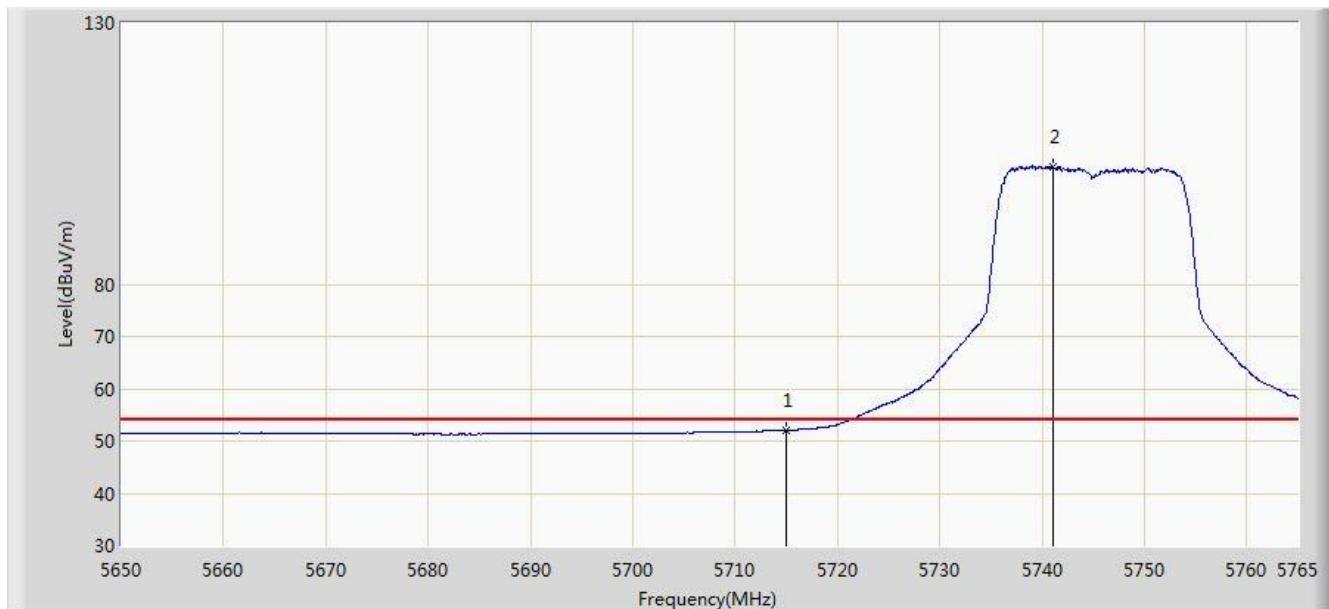


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5714.975	70.716	66.955	-3.284	74.000	3.761	PK
2			5715.000	69.602	65.841	-4.398	74.000	3.761	PK
3			5725.000	74.804	71.013	-3.396	78.200	3.791	PK
4	*		5739.815	118.681	114.845	N/A	N/A	3.836	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 20:11
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5745MHz Ant 1 + 2	

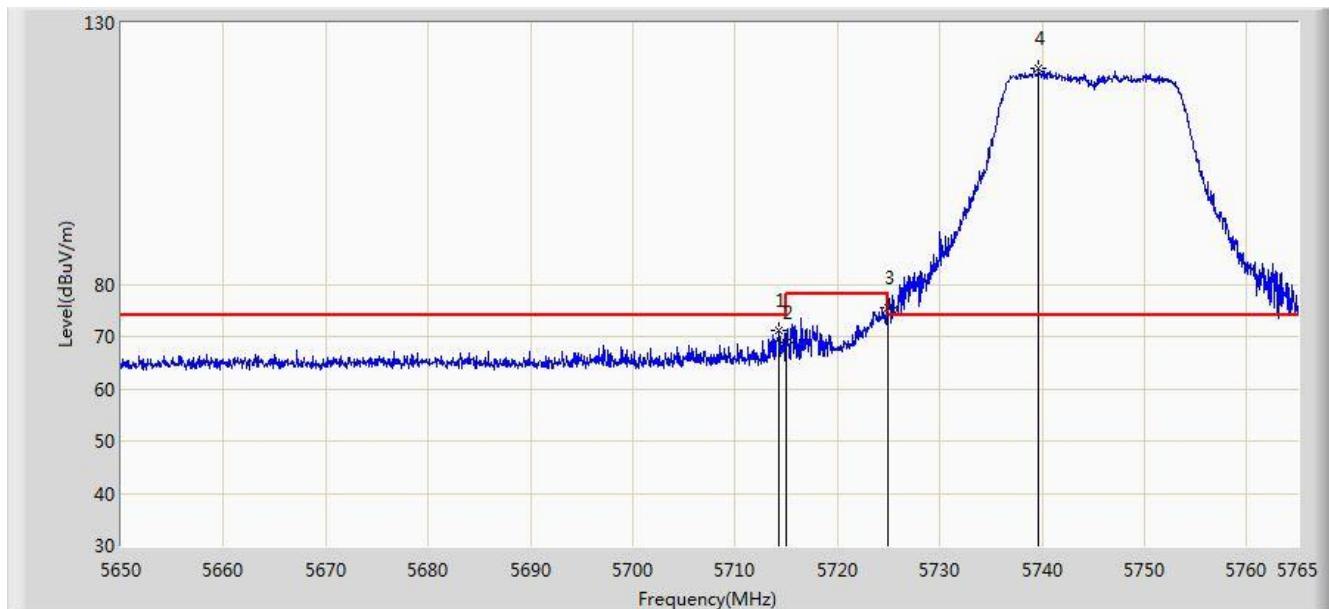


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	52.108	48.347	-1.892	54.000	3.761	AV
2	*		5741.138	102.597	98.757	N/A	N/A	3.840	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 20:08
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5745MHz Ant 1 + 2	

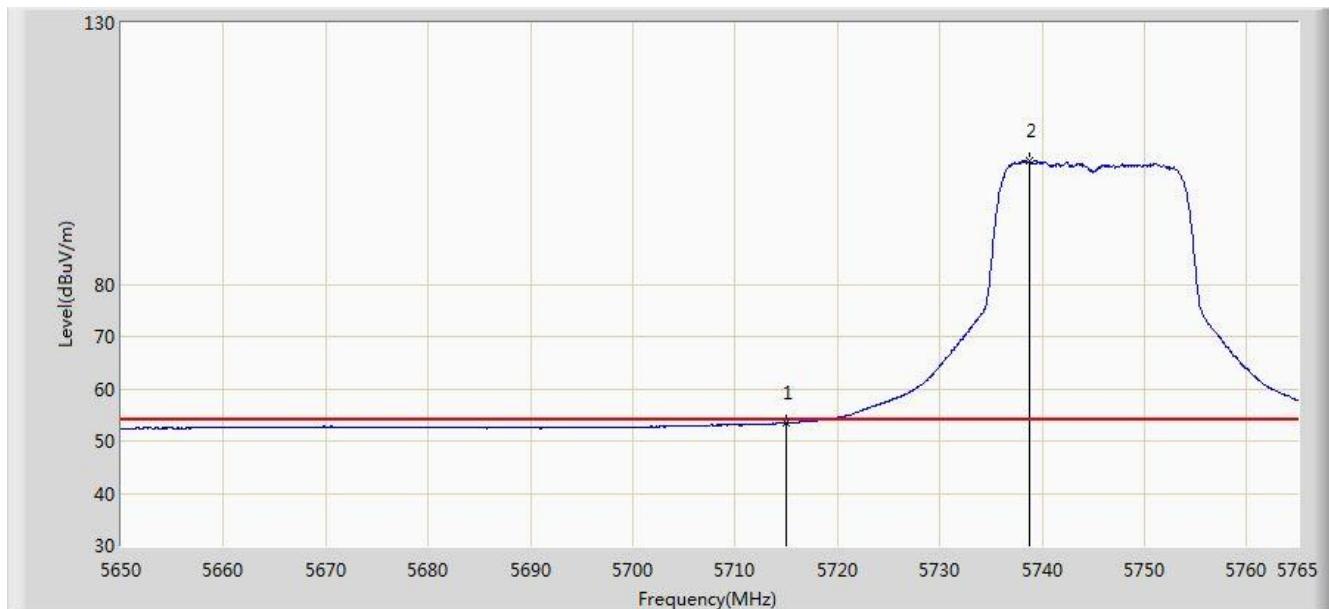


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5714.342	71.275	67.516	-2.725	74.000	3.758	PK
2			5715.000	68.923	65.162	-5.077	74.000	3.761	PK
3			5725.000	75.400	71.609	-2.800	78.200	3.791	PK
4	*		5739.643	121.335	117.499	N/A	N/A	3.836	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 20:07
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5745MHz Ant 1 + 2	

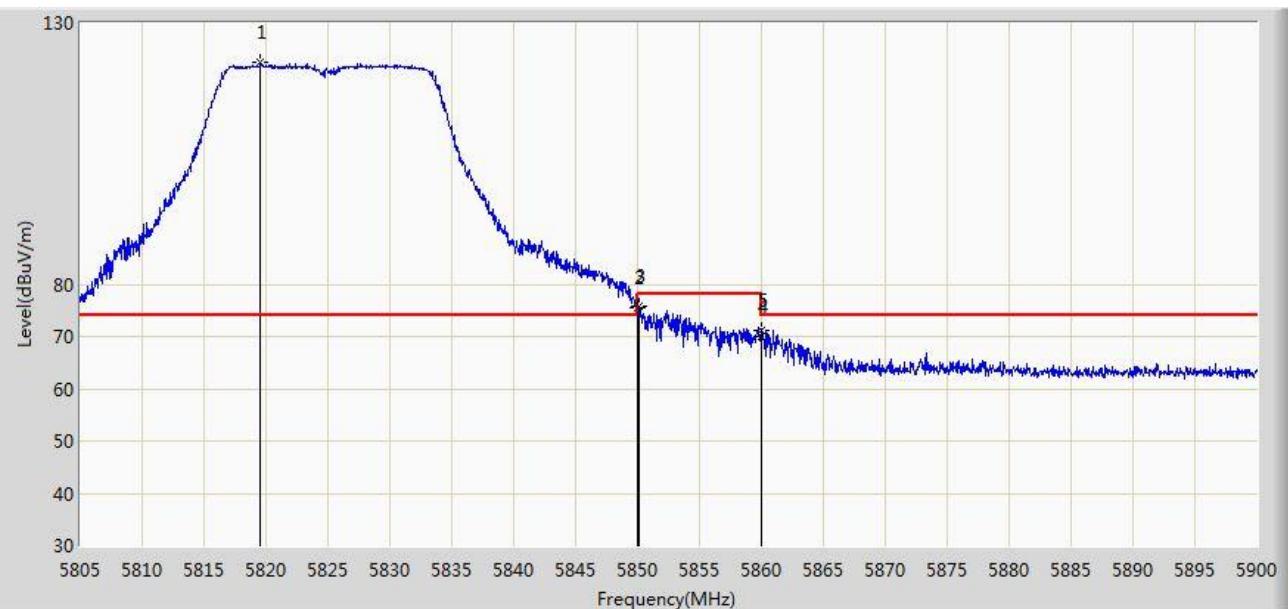


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1			5715.000	53.416	49.655	-0.584	54.000	3.761	AV
2	*	*	5738.837	103.586	99.752	N/A	N/A	3.834	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 20:18
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5825MHz Ant 1 + 2	

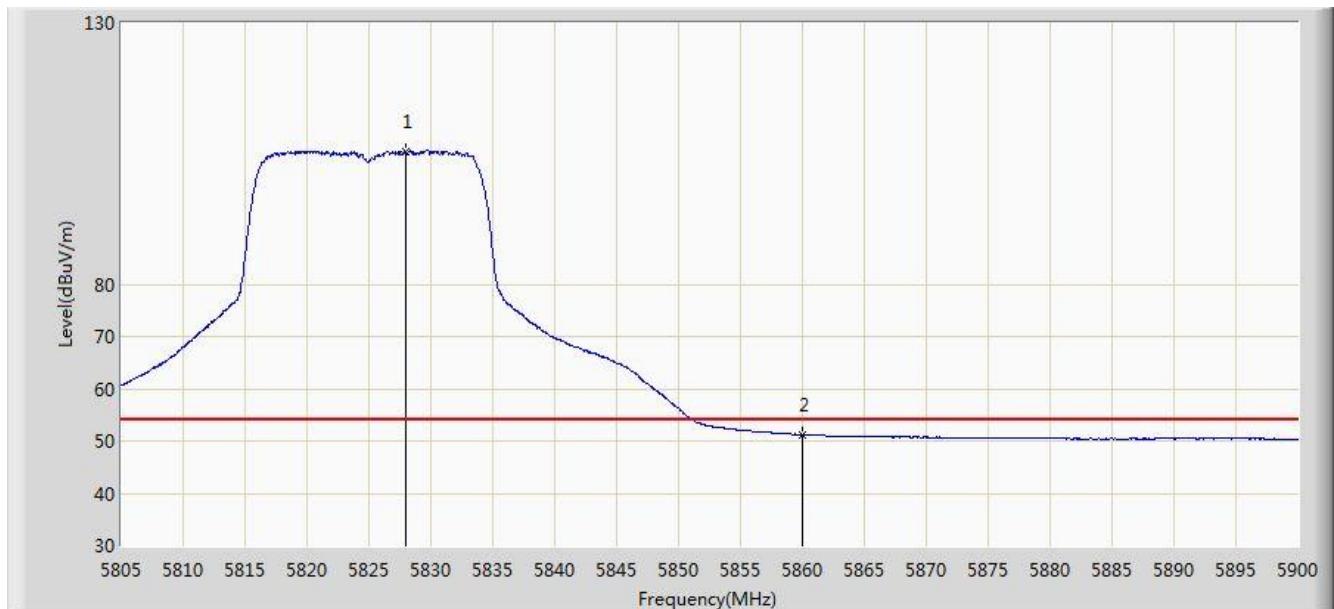


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5819.535	122.370	118.377	N/A	N/A	3.993	PK
2			5850.000	75.498	71.441	-2.702	78.200	4.058	PK
3			5850.125	75.874	71.817	-2.326	78.200	4.058	PK
4			5860.000	70.065	66.002	-3.935	74.000	4.064	PK
5			5860.053	71.170	67.107	-2.830	74.000	4.064	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 20:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5825MHz Ant 1 + 2	

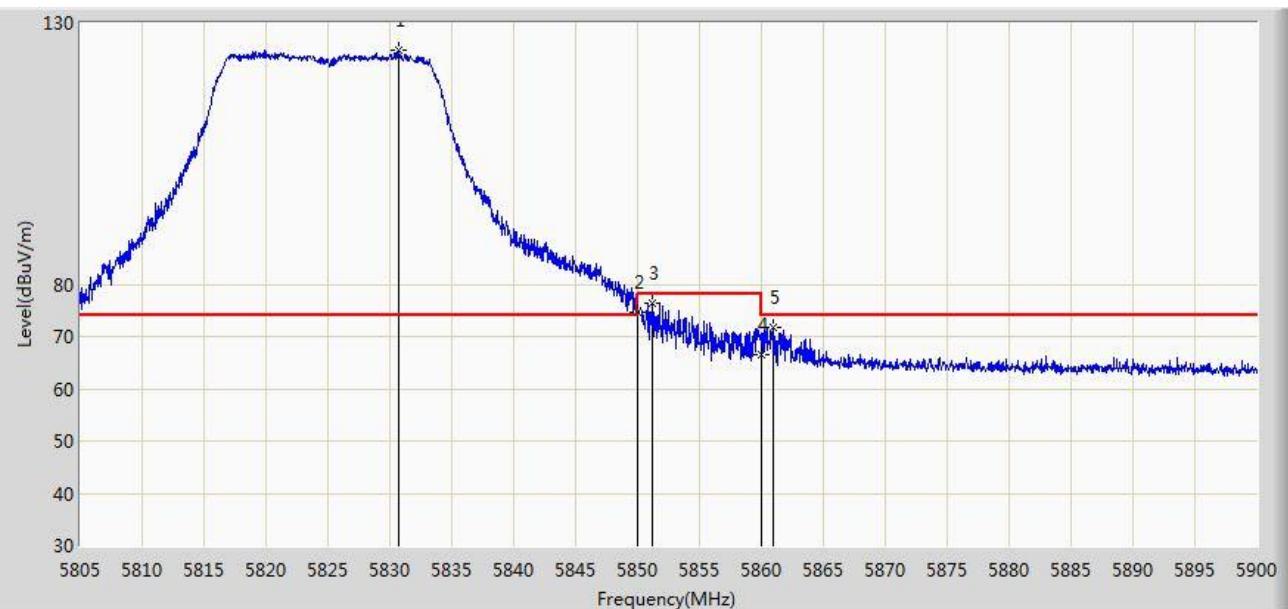


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1		*	5827.990	105.370	101.358	N/A	N/A	4.012	AV
2			5860.000	51.226	47.163	-2.774	54.000	4.064	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 20:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5825MHz Ant 1 + 2	

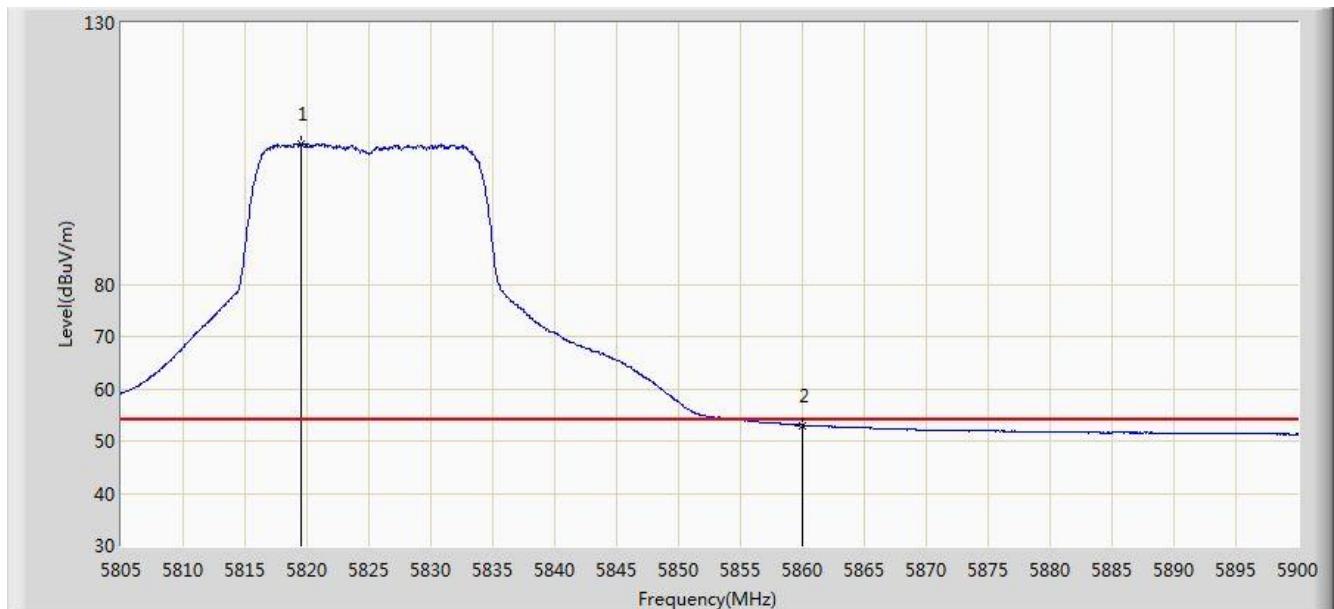


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1		*	5830.745	124.766	120.747	N/A	N/A	4.019	PK
2			5850.000	74.675	70.618	-3.525	78.200	4.058	PK
3			5851.170	76.491	72.433	-1.709	78.200	4.058	PK
4			5860.000	66.618	62.555	-7.382	74.000	4.064	PK
5			5861.002	71.808	67.744	-2.192	74.000	4.064	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 20:17
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5825MHz Ant 1 + 2	

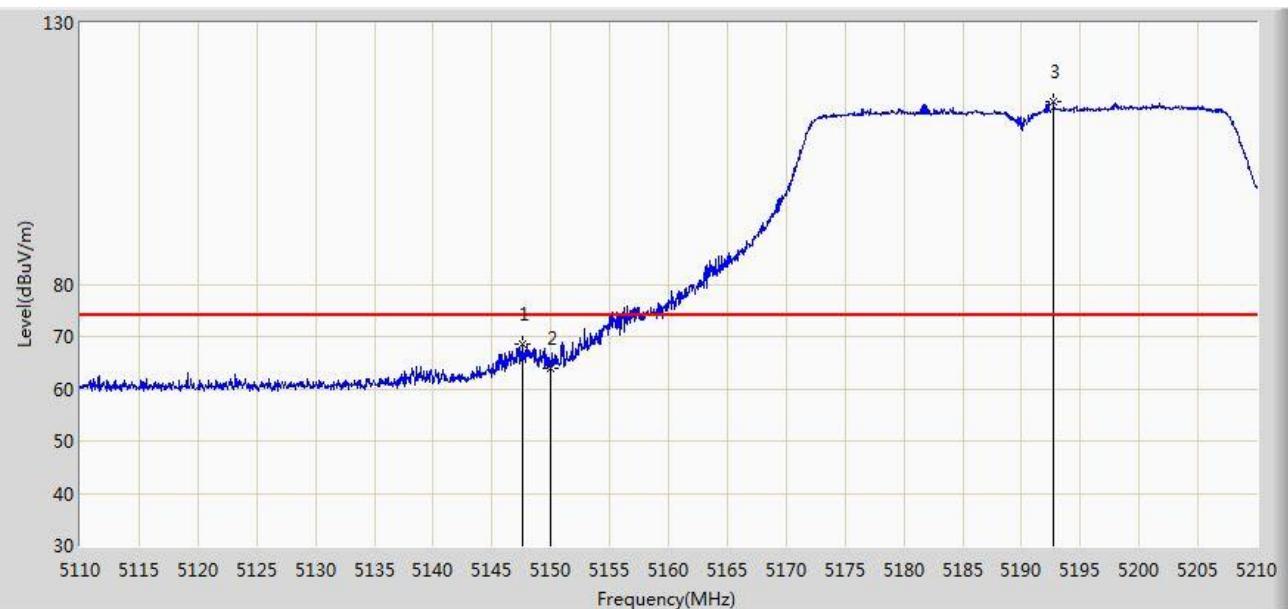


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1		*	5819.535	106.885	102.892	N/A	N/A	3.993	AV
2			5860.000	53.007	48.944	-0.993	54.000	4.064	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 20:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5190MHz Ant 1 + 2	

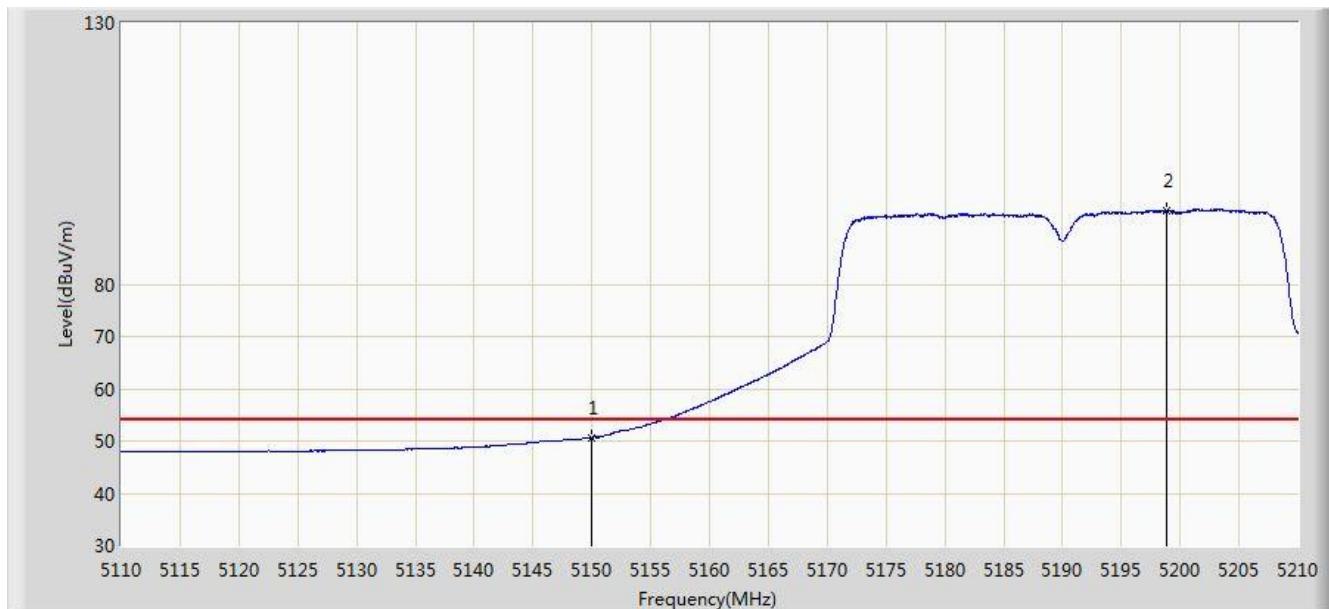


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5147.600	68.686	65.377	-5.314	74.000	3.308	PK
2			5150.000	63.954	60.645	-10.046	74.000	3.309	PK
3	*	*	5192.700	114.990	111.732	N/A	N/A	3.257	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 20:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5190MHz Ant 1 + 2	

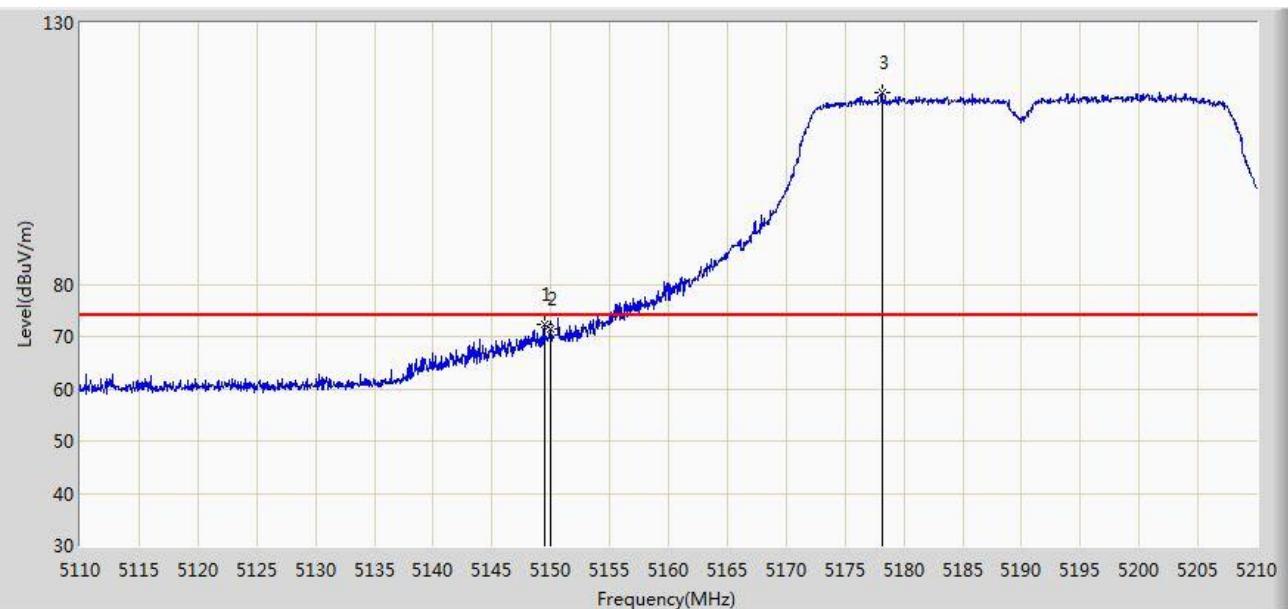


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	50.700	47.391	-3.300	54.000	3.309	AV
2	*	*	5198.850	94.156	90.905	N/A	N/A	3.251	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 20:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5190MHz Ant 1 + 2	

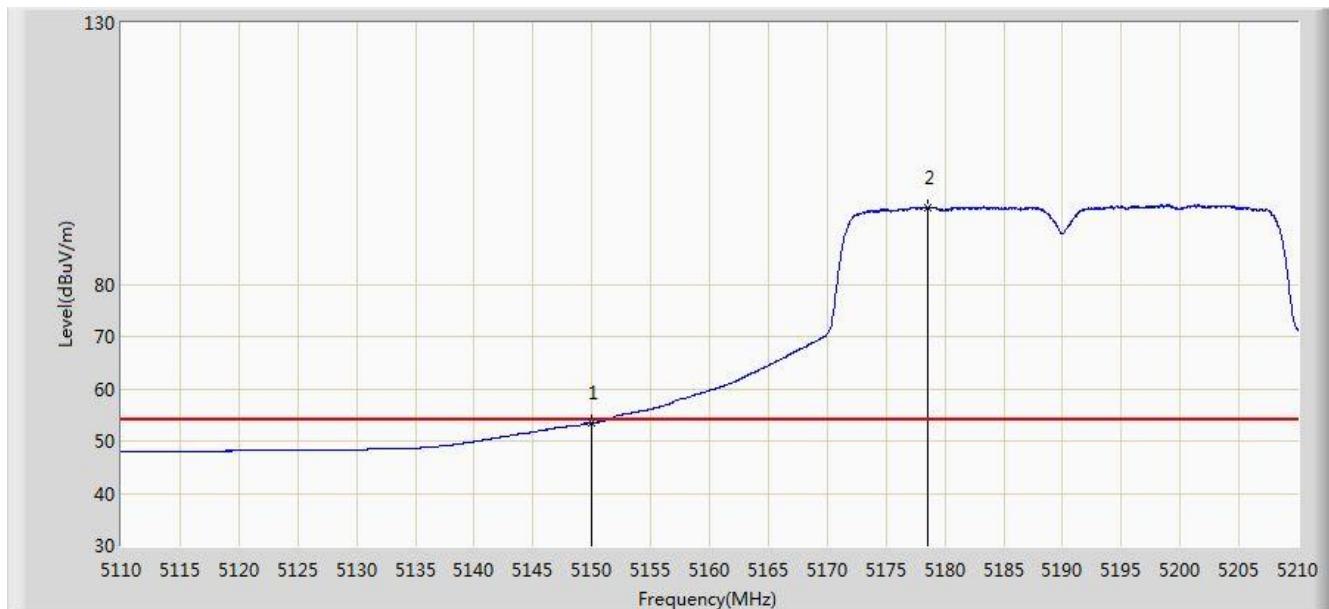


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.450	72.372	69.063	-1.628	74.000	3.309	PK
2			5150.000	71.374	68.065	-2.626	74.000	3.309	PK
3		*	5178.150	116.551	113.277	N/A	N/A	3.274	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 20:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5190MHz Ant 1 + 2	

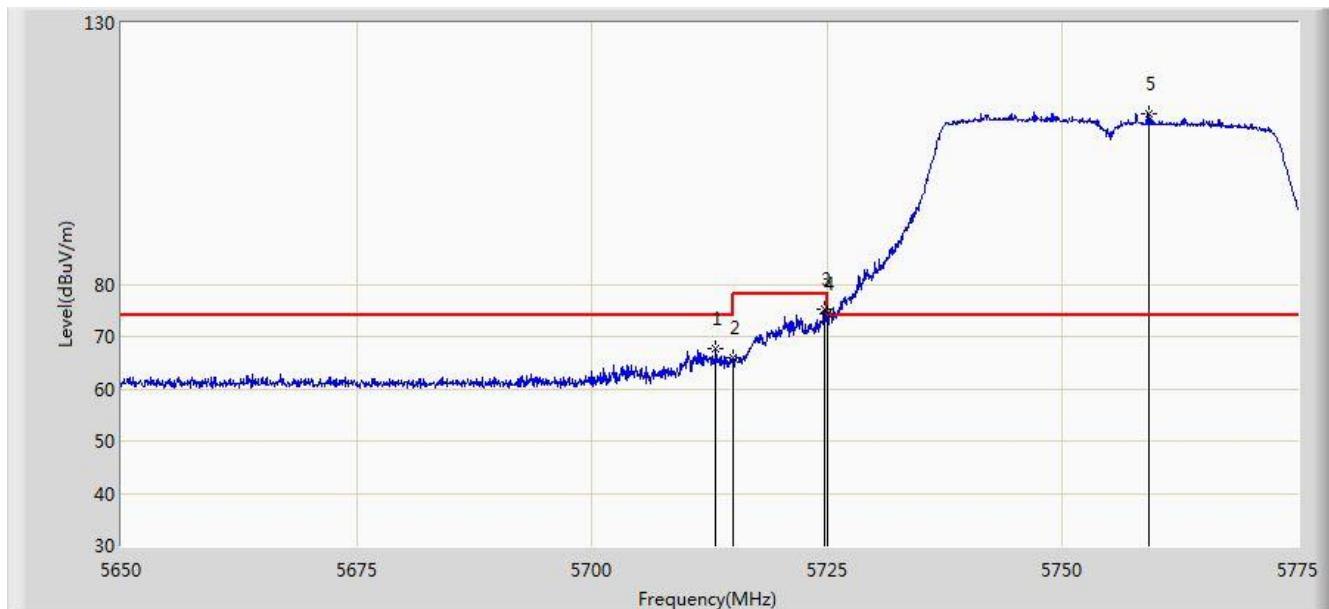


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1			5150.000	53.484	50.175	-0.516	54.000	3.309	AV
2		*	5178.500	94.771	91.497	N/A	N/A	3.274	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 20:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5755MHz Ant 1 + 2	

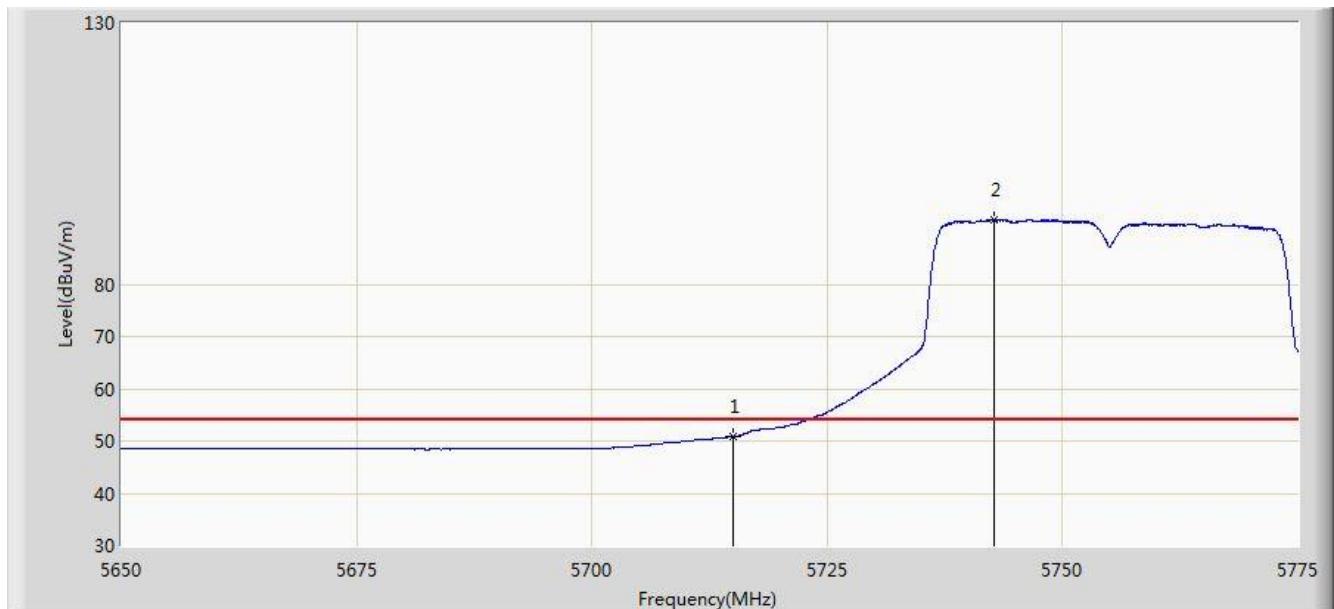


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5713.187	67.758	64.003	-6.242	74.000	3.756	PK
2			5715.000	65.852	62.091	-8.148	74.000	3.761	PK
3			5724.687	75.272	71.482	-2.928	78.200	3.790	PK
4			5725.000	74.322	70.531	-3.878	78.200	3.791	PK
5		*	5759.250	112.521	108.617	N/A	N/A	3.904	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 20:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5755MHz Ant 1 + 2	

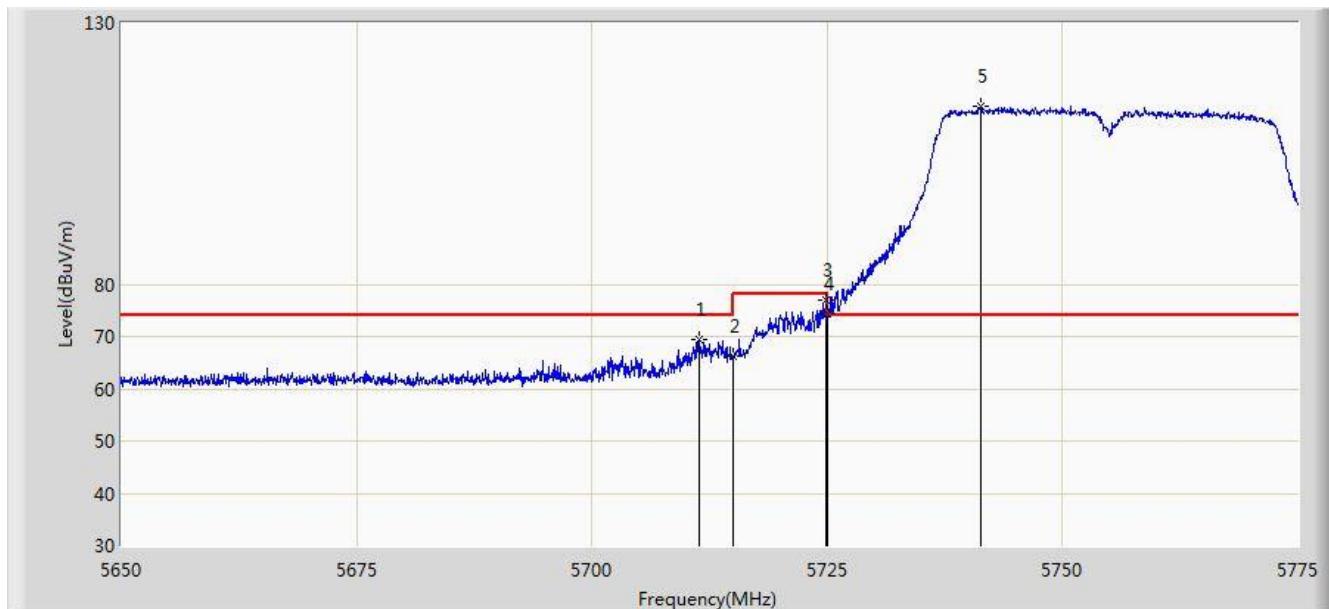


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	50.834	47.073	-3.166	54.000	3.761	AV
2		*	5742.687	92.404	88.560	N/A	N/A	3.844	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 20:27
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5755MHz Ant 1 + 2	

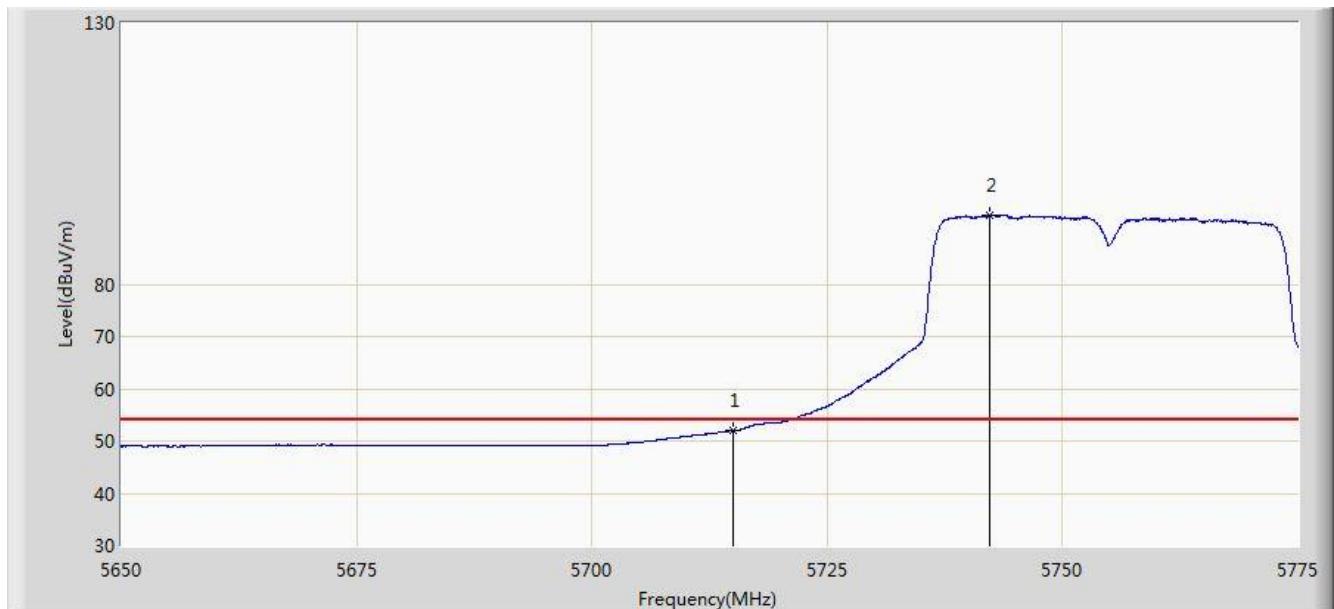


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5711.437	69.387	65.637	-4.613	74.000	3.750	PK
2			5715.000	66.368	62.607	-7.632	74.000	3.761	PK
3			5724.812	76.884	73.094	-1.316	78.200	3.790	PK
4			5725.000	74.449	70.658	-3.751	78.200	3.791	PK
5		*	5741.250	114.021	110.181	N/A	N/A	3.840	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 20:29
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5755MHz Ant 1 + 2	

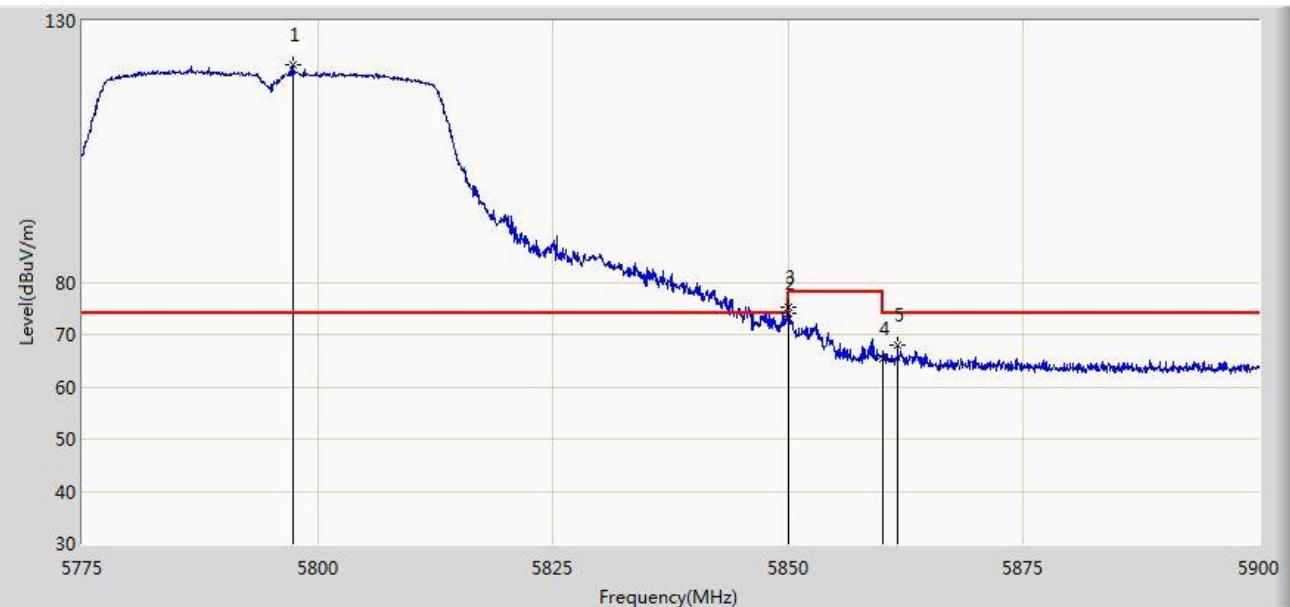


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1			5715.000	51.961	48.200	-2.039	54.000	3.761	AV
2		*	5742.187	93.200	89.357	N/A	N/A	3.843	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 20:37
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5795MHz Ant 1 + 2	

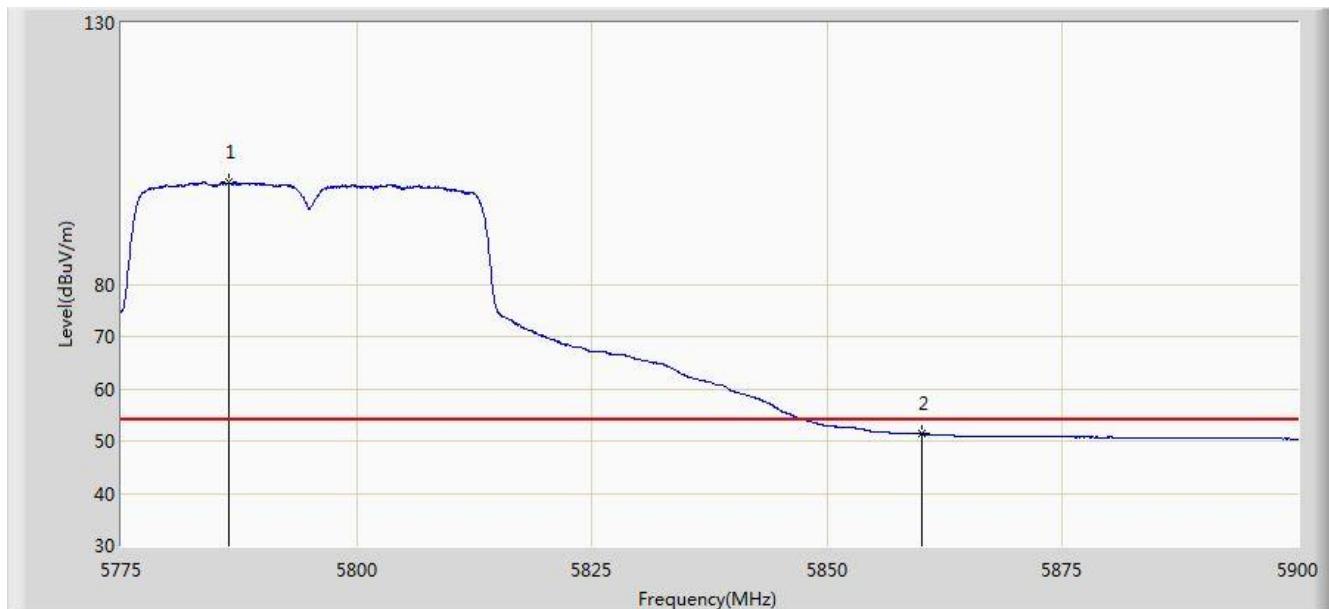


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1		*	5797.437	121.662	117.705	N/A	N/A	3.958	PK
2			5850.000	74.126	70.069	-4.074	78.200	4.058	PK
3			5850.062	75.202	71.145	-2.998	78.200	4.058	PK
4			5860.000	65.444	61.381	-8.556	74.000	4.064	PK
5			5861.625	67.968	63.904	-6.032	74.000	4.065	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 20:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5795MHz Ant 1 + 2	

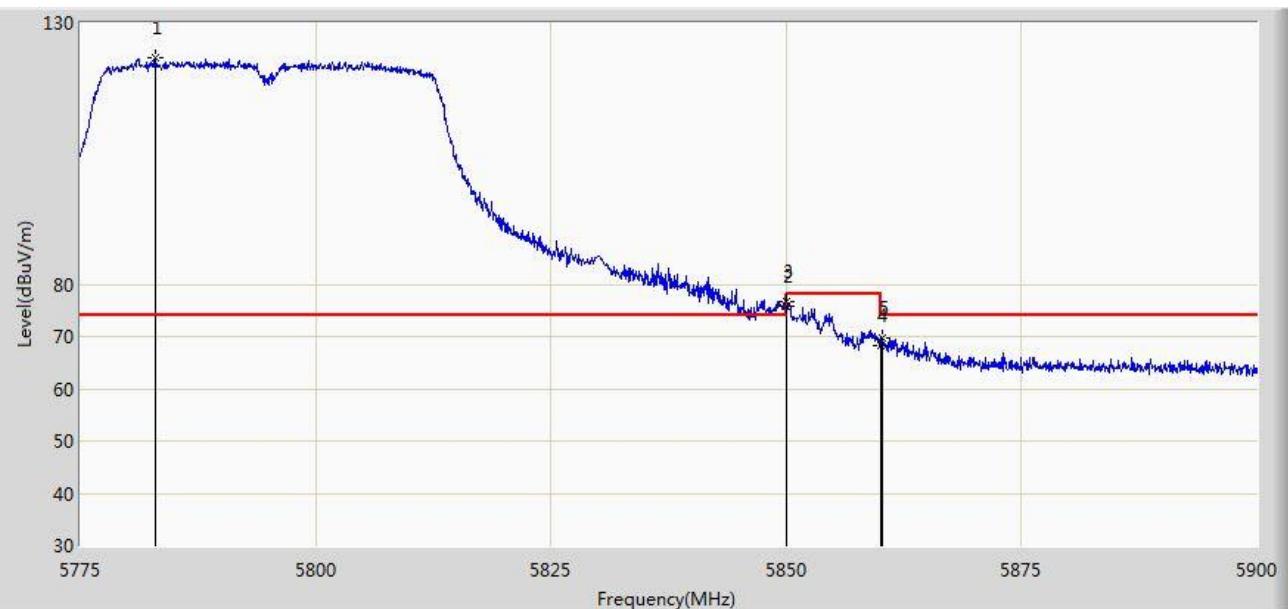


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1		*	5786.500	99.442	95.503	N/A	N/A	3.939	AV
2			5860.000	51.410	47.347	-2.590	54.000	4.064	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 20:37
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5795MHz Ant 1 + 2	

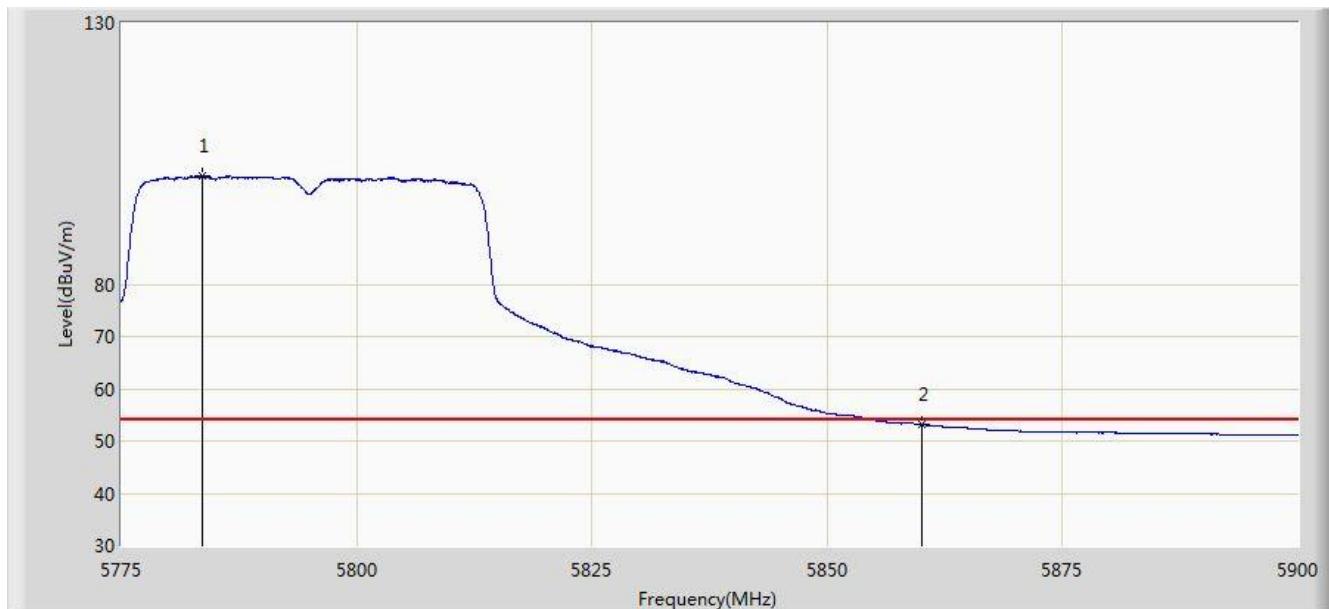


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5783.062	123.459	119.527	N/A	N/A	3.932	PK
2			5850.000	75.934	71.877	-2.266	78.200	4.058	PK
3			5850.062	76.783	72.726	-1.417	78.200	4.058	PK
4			5860.000	68.308	64.245	-5.692	74.000	4.064	PK
5			5860.250	69.600	65.536	-4.400	74.000	4.064	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 20:36
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5795MHz Ant 1 + 2	

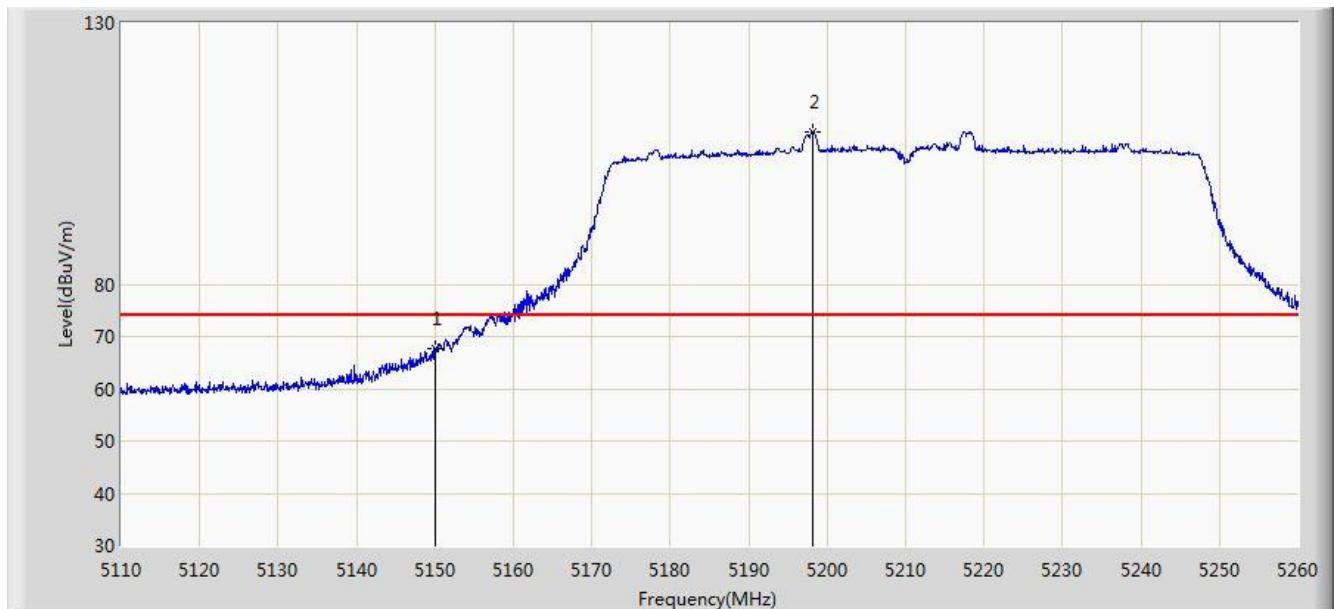


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5783.687	100.666	96.732	N/A	N/A	3.934	AV
2			5860.000	53.215	49.152	-0.785	54.000	4.064	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 20:46
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz Ant 1 + 2	

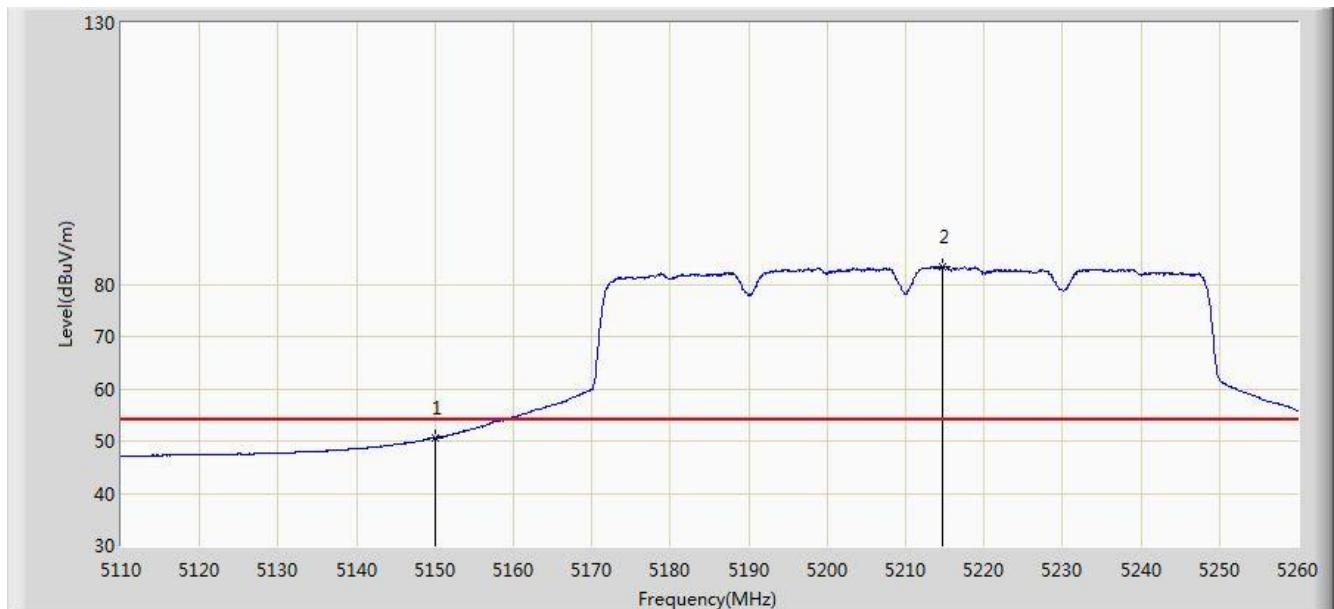


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	67.732	64.423	-6.268	74.000	3.309	PK
2		*	5198.125	109.086	105.834	N/A	N/A	3.252	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 20:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz Ant 1 + 2	

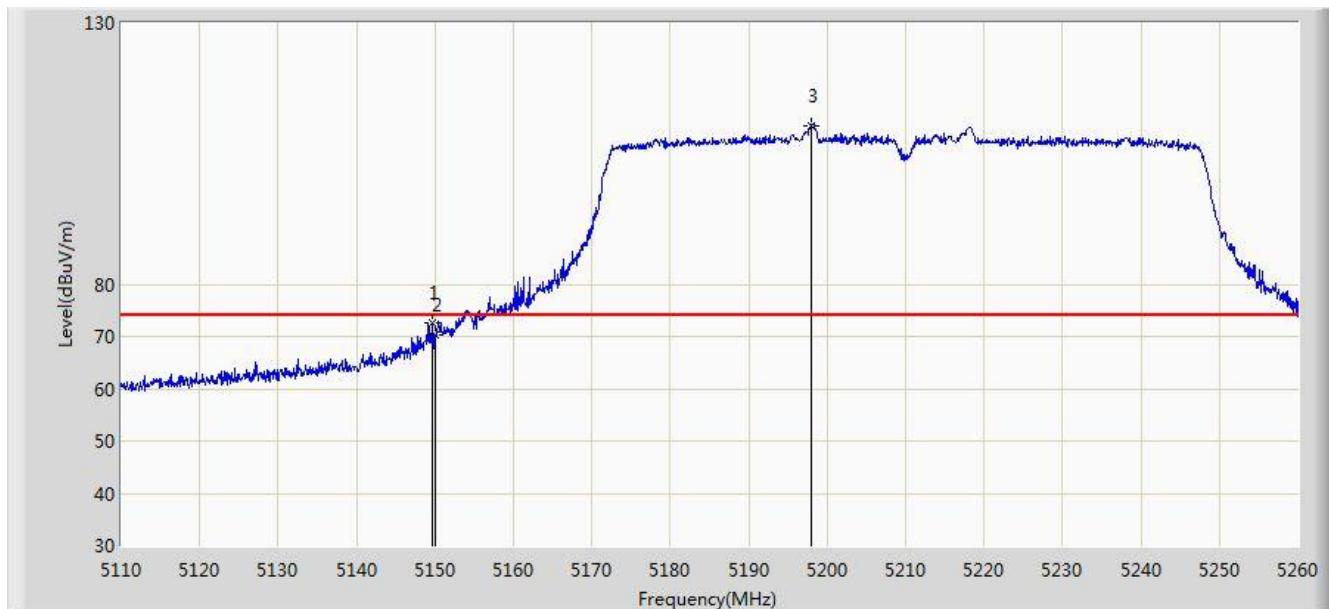


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	50.636	47.327	-3.364	54.000	3.309	AV
2	*	*	5214.700	83.378	80.160	N/A	N/A	3.217	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 20:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz Ant 1 + 2	

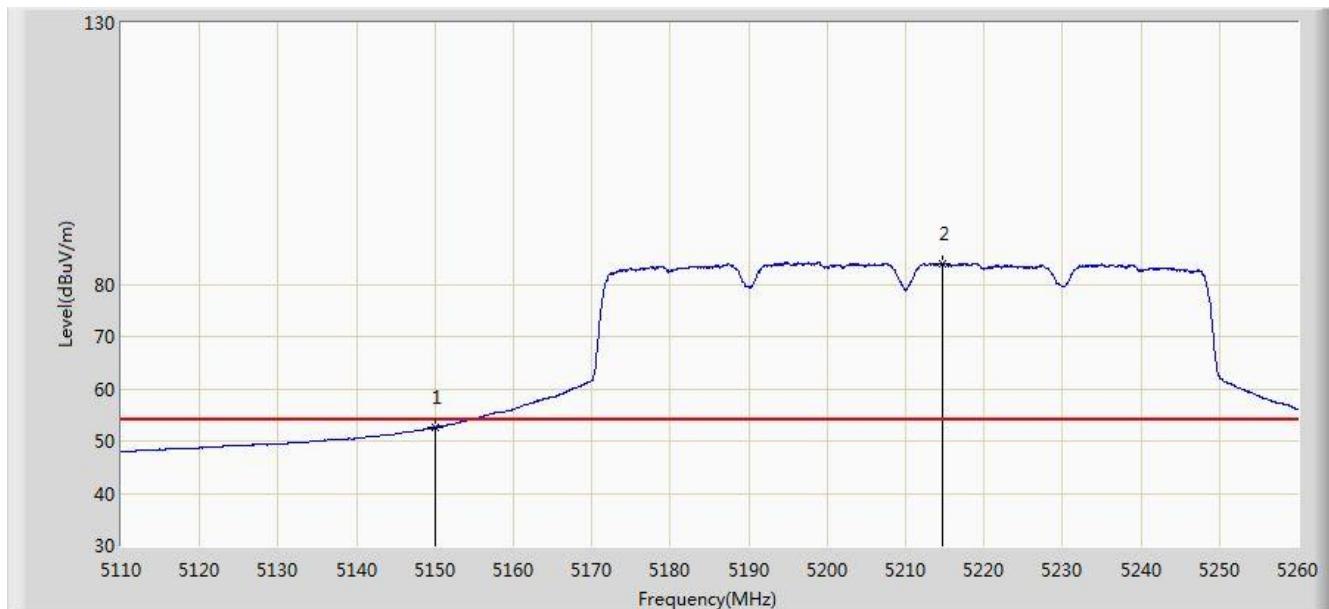


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.600	72.676	69.367	-1.324	74.000	3.308	PK
2			5150.000	70.242	66.933	-3.758	74.000	3.309	PK
3	*	*	5197.975	110.398	107.146	N/A	N/A	3.252	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 20:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5210MHz Ant 1 + 2	

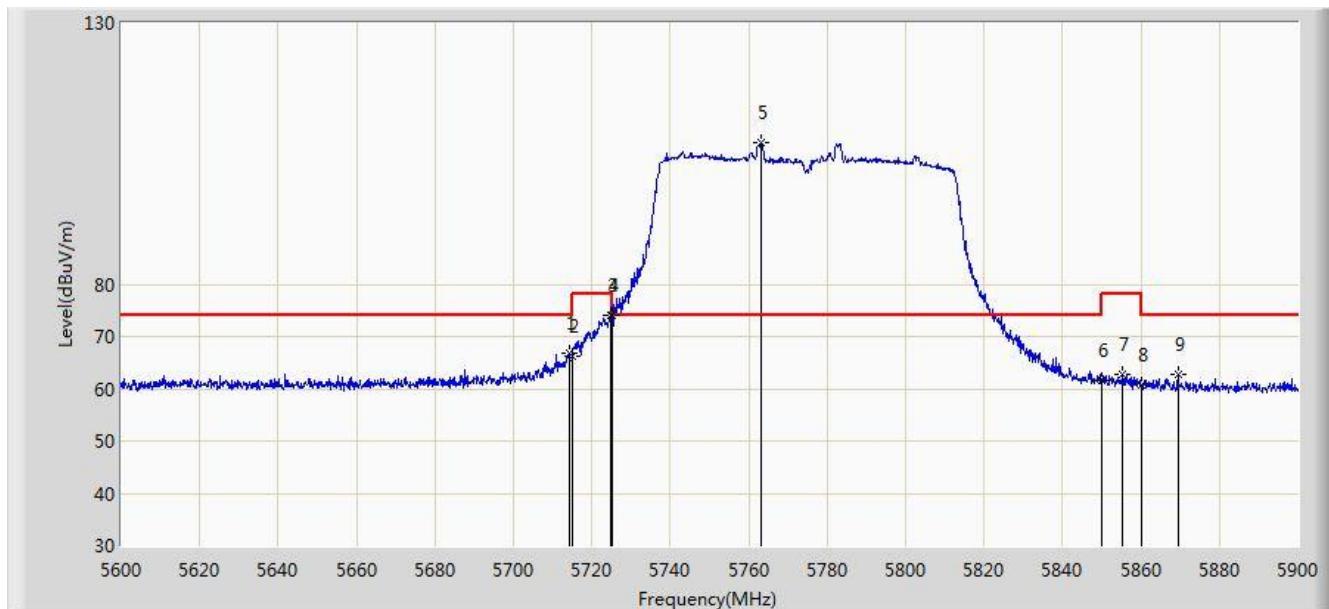


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	52.615	49.306	-1.385	54.000	3.309	AV
2	*		5214.775	83.975	80.758	N/A	N/A	3.217	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2016/01/07 - 20:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5775MHz Ant 1 + 2	

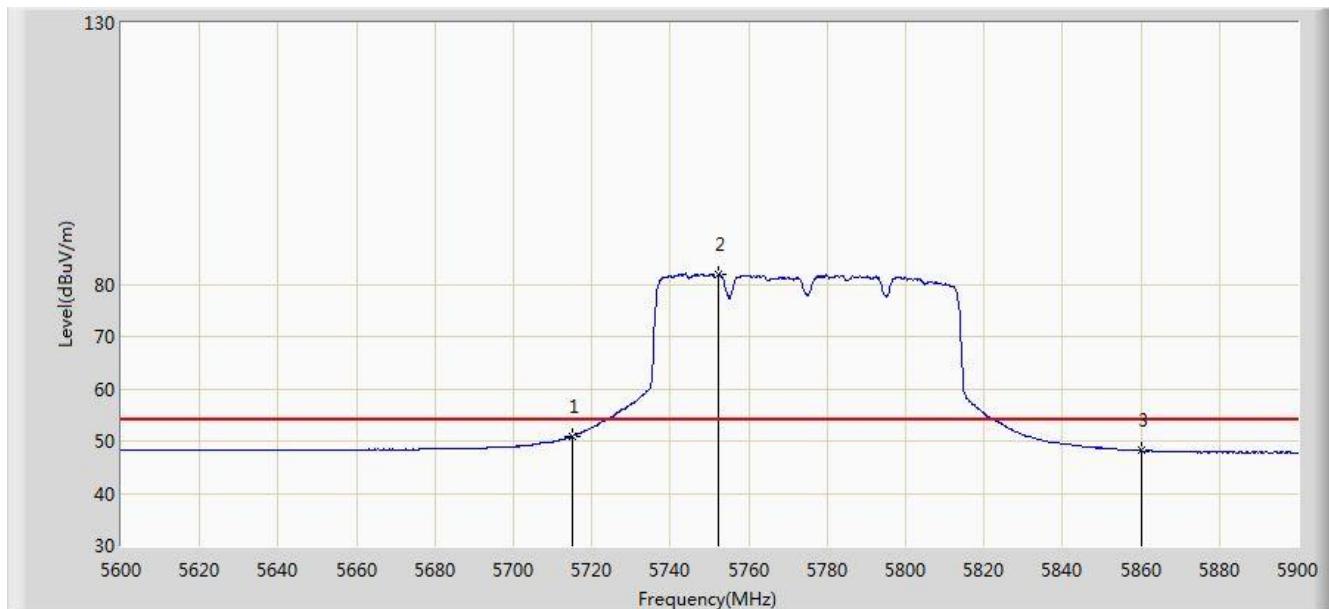


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1			5714.300	66.737	62.978	-7.263	74.000	3.758	PK
2			5715.000	66.087	62.326	-7.913	74.000	3.761	PK
3			5724.800	73.986	70.196	-4.214	78.200	3.790	PK
4			5725.000	73.927	70.136	-4.273	78.200	3.791	PK
5	*		5763.050	106.992	103.083	N/A	N/A	3.909	PK
6			5850.000	61.548	57.491	-16.652	78.200	4.058	PK
7			5855.300	62.762	58.702	-15.438	78.200	4.060	PK
8			5860.000	60.837	56.774	-13.163	74.000	4.064	PK
9			5869.400	62.796	58.708	-11.204	74.000	4.087	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 20:52
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5775MHz Ant 1 + 2	

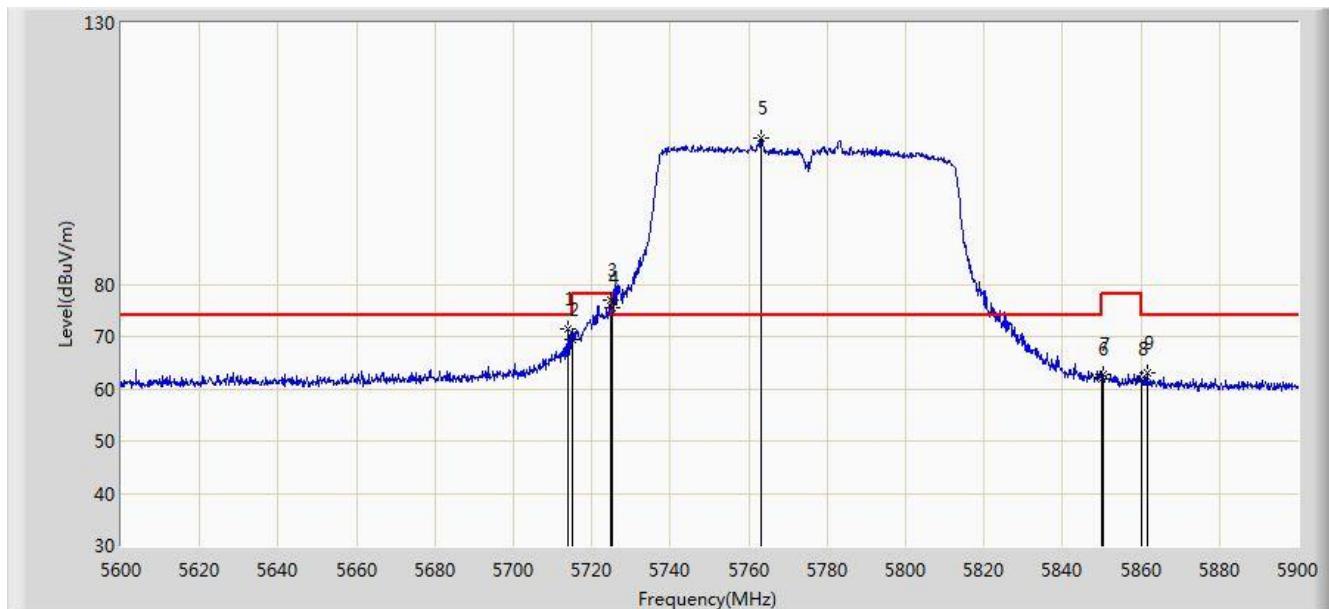


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	50.948	47.187	-3.052	54.000	3.761	AV
2		*	5752.250	81.854	77.974	N/A	N/A	3.880	AV
3			5860.000	48.168	44.105	-5.832	54.000	4.064	AV

Note: Measure Level (dB<sub>u</sub>V/m) = Reading Level (dB<sub>u</sub>V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 20:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5775MHz Ant 1 + 2	

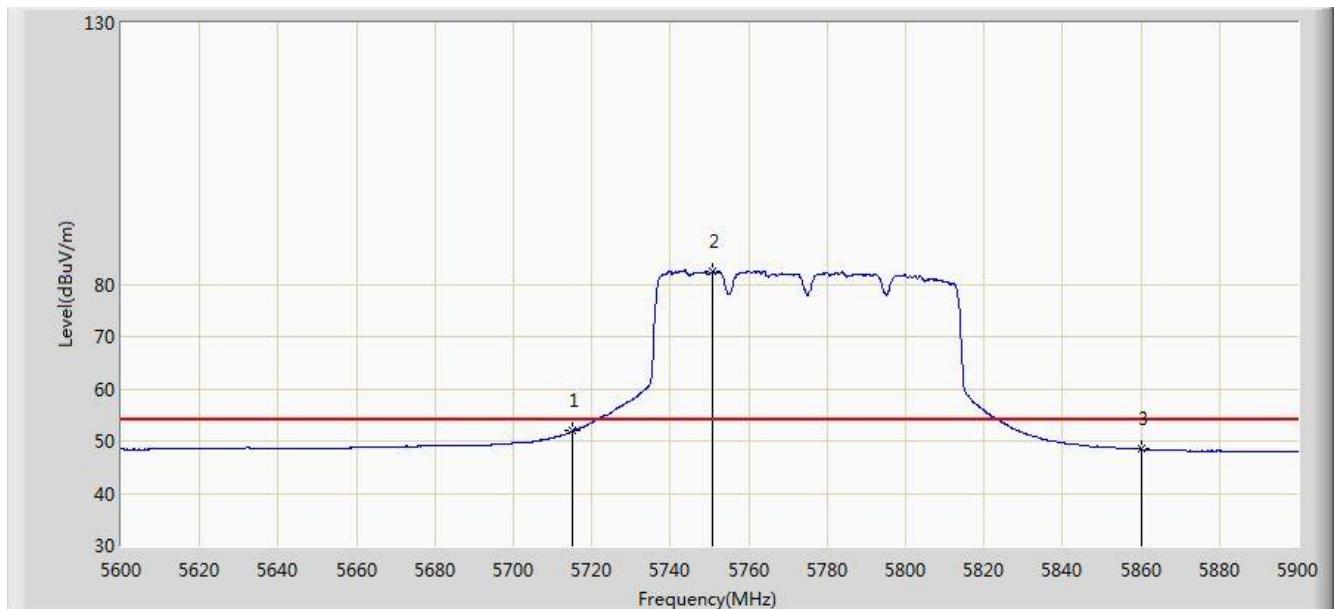


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Over Limit (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1			5714.000	71.466	67.708	-2.534	74.000	3.758	PK
2			5715.000	69.491	65.730	-4.509	74.000	3.761	PK
3			5724.800	77.045	73.255	-1.155	78.200	3.790	PK
4			5725.000	75.374	71.583	-2.826	78.200	3.791	PK
5	*		5763.050	107.966	104.057	N/A	N/A	3.909	PK
6			5850.000	61.983	57.926	-16.217	78.200	4.058	PK
7			5850.500	62.751	58.694	-15.449	78.200	4.058	PK
8			5860.000	61.895	57.832	-12.105	74.000	4.064	PK
9			5861.600	62.966	58.902	-11.034	74.000	4.065	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC1	Time: 2016/01/07 - 20:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Peak Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5775MHz Ant 1 + 2	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5715.000	51.955	48.194	-2.045	54.000	3.761	AV
2	*		5750.900	82.345	78.470	N/A	N/A	3.875	AV
3			5860.000	48.443	44.380	-5.557	54.000	4.064	AV

Note: Measure Level (dB<sub>u</sub>V/m) = Reading Level (dB<sub>u</sub>V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

## 7.10. AC Conducted Emissions Measurement

### 7.10.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207		
Frequency (MHz)	QP (dB $\mu$ V)	AV (dB $\mu$ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

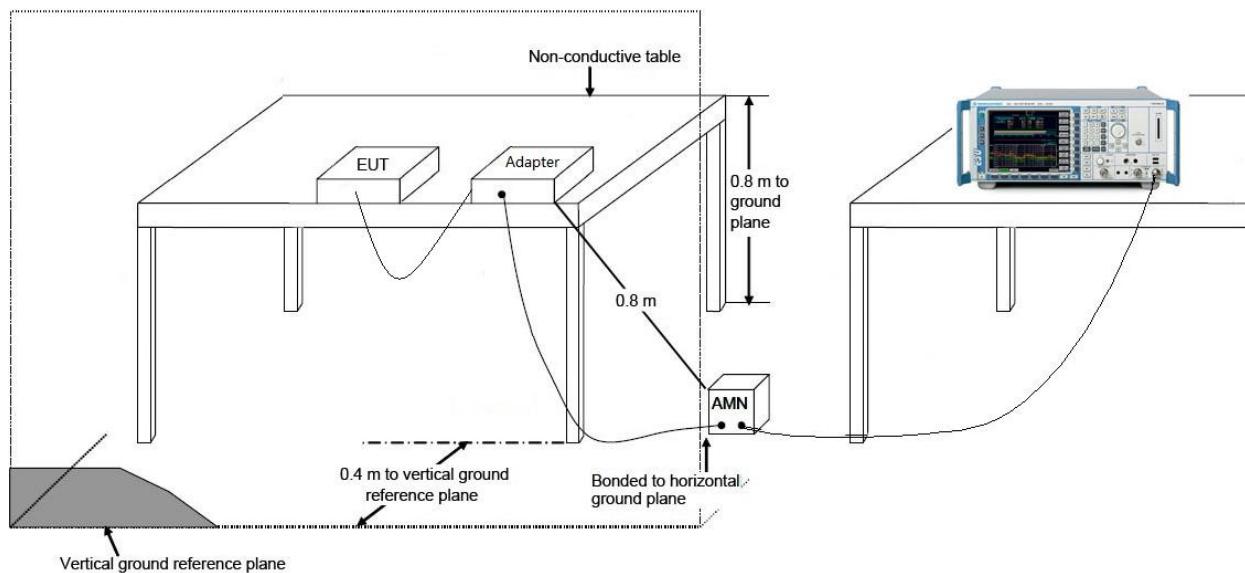
### 7.10.2. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to KDB 789033 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

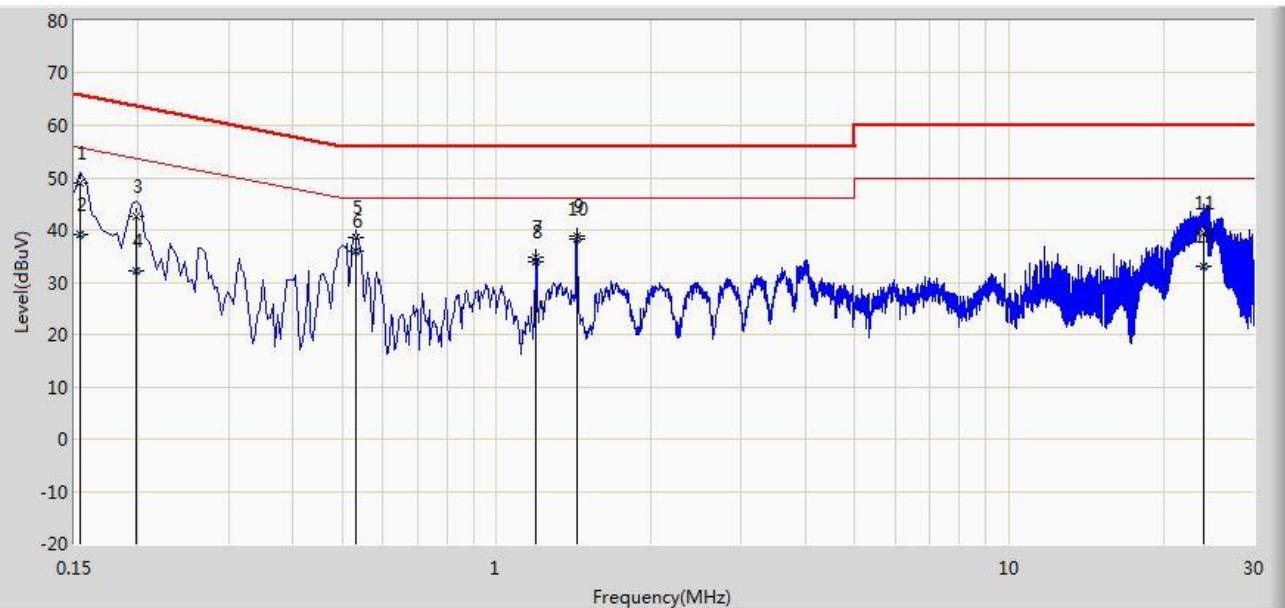
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

### 7.10.3. Test Setup



#### 7.10.4. Test Result

Site: SR2	Time: 2016/01/14 - 15:46
Limit: FCC_Part15.207_CE_AC Power	Engineer: Milo Li
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Note: Mode 1	

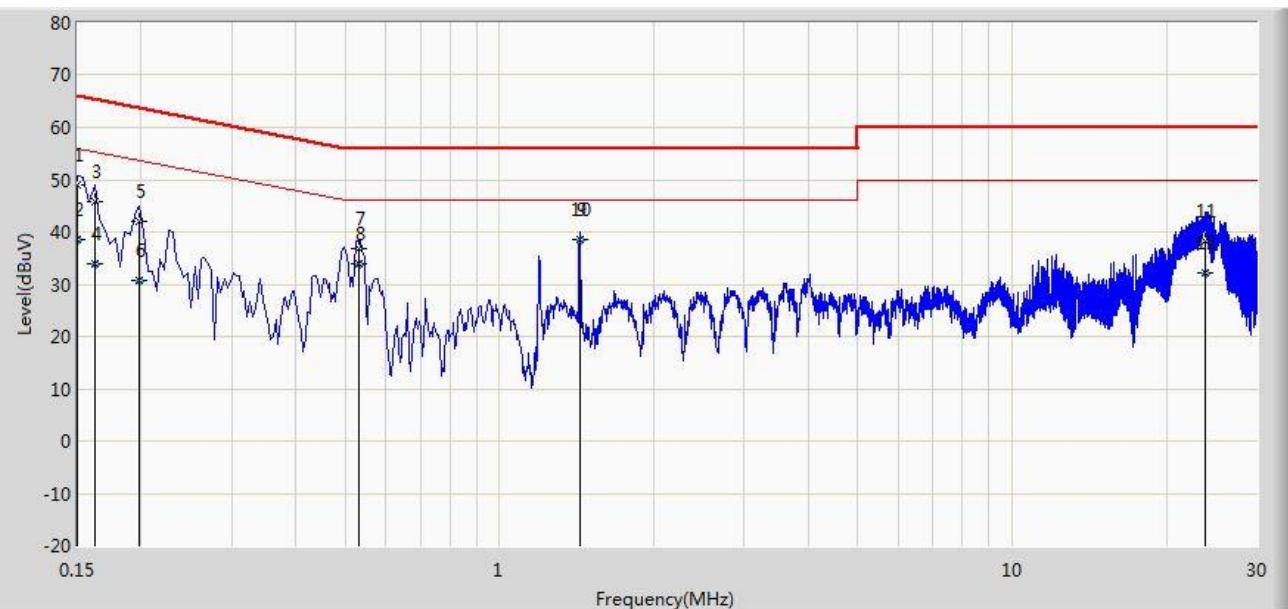


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.154	48.966	38.226	-16.815	65.781	10.740	QP
2			0.154	39.107	28.367	-16.674	55.781	10.740	AV
3			0.198	42.658	32.653	-21.036	63.694	10.005	QP
4			0.198	32.201	22.197	-21.493	53.694	10.005	AV
5			0.530	38.430	28.279	-17.570	56.000	10.151	QP
6			0.530	36.070	25.919	-9.930	46.000	10.151	AV
7			1.194	34.790	24.888	-21.210	56.000	9.902	QP
8			1.194	33.940	24.039	-12.060	46.000	9.902	AV
9			1.434	38.871	28.980	-17.129	56.000	9.892	QP
10	*		1.434	38.405	28.514	-7.595	46.000	9.892	AV
11			24.010	39.394	29.200	-20.606	60.000	10.195	QP
12			24.010	33.046	22.852	-16.954	50.000	10.195	AV

Note: Measure Level (dB $\mu$ V) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2016/01/14 - 15:50
Limit: FCC_Part15.207_CE_AC Power	Engineer: Milo Li
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Note: Mode 1	

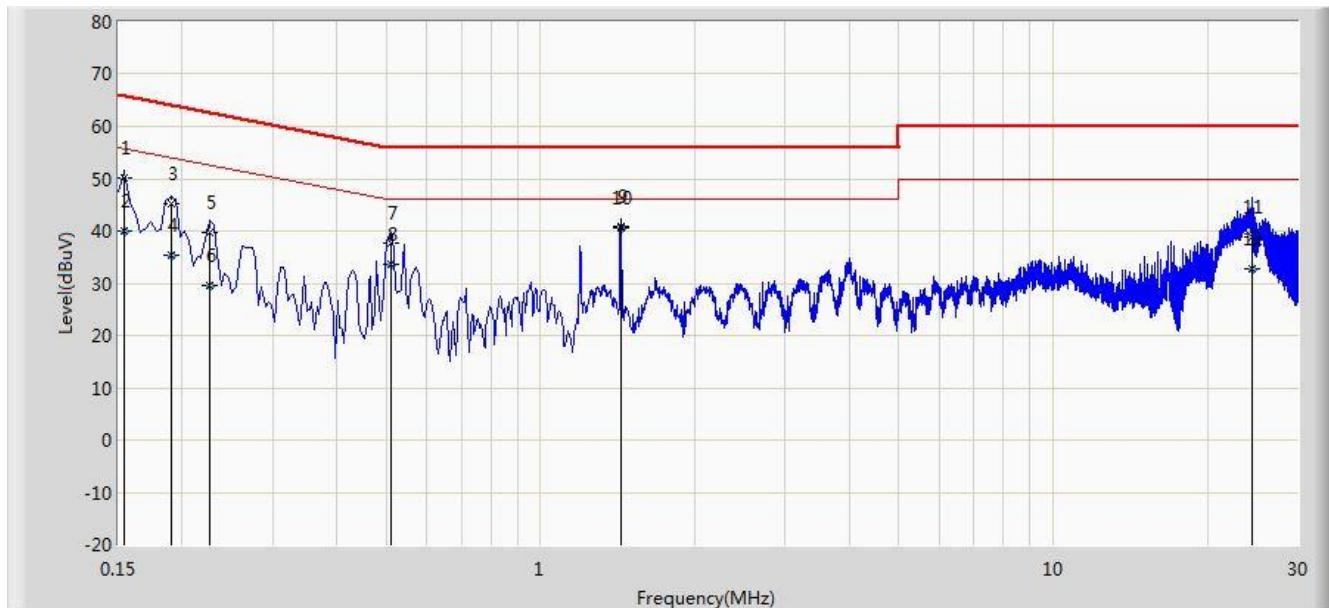


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.150	49.126	37.984	-16.874	66.000	11.142	QP
2			0.150	38.545	27.403	-17.455	56.000	11.142	AV
3			0.162	45.902	35.824	-19.458	65.361	10.078	QP
4			0.162	33.914	23.836	-21.446	55.361	10.078	AV
5			0.198	41.996	31.981	-21.698	63.694	10.015	QP
6			0.198	30.739	20.724	-22.955	53.694	10.015	AV
7			0.530	36.920	26.750	-19.080	56.000	10.169	QP
8			0.530	33.881	23.711	-12.119	46.000	10.169	AV
9			1.434	38.684	28.792	-17.316	56.000	9.893	QP
10	*		1.434	38.406	28.514	-7.594	46.000	9.893	AV
11			23.774	38.254	27.985	-21.746	60.000	10.270	QP
12			23.774	32.140	21.870	-17.860	50.000	10.270	AV

Note: Measure Level (dB $\mu$ V) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2016/01/14 - 16:40
Limit: FCC_Part15.207_CE_AC Power	Engineer: Milo Li
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Note: Mode 7	

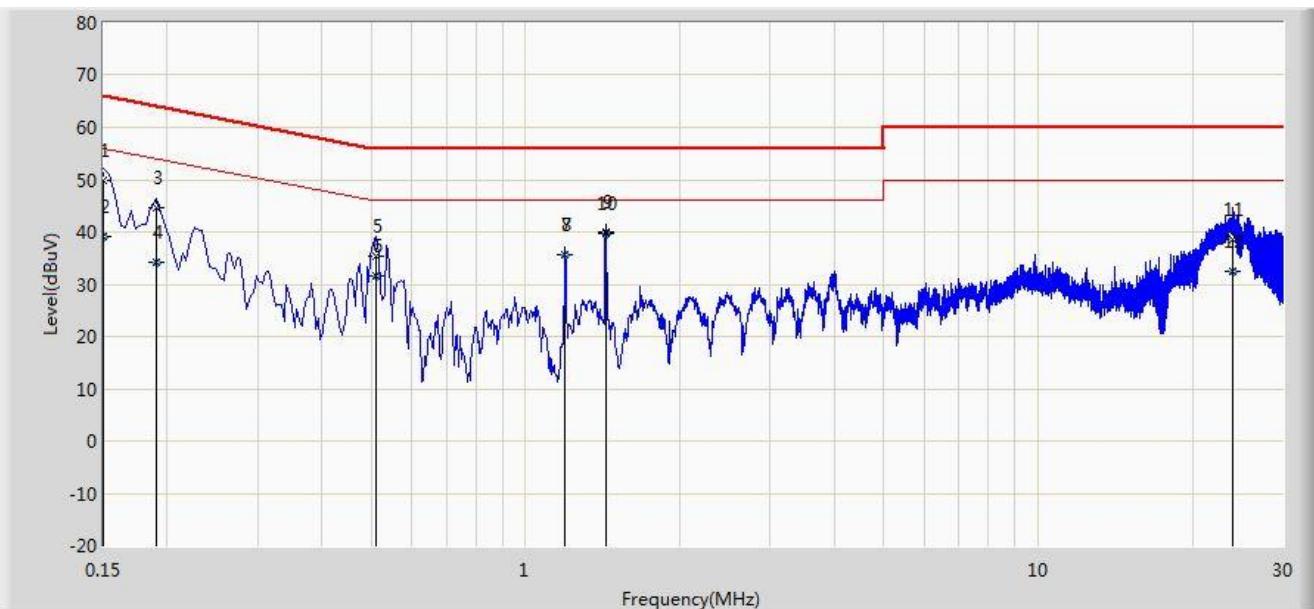


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.154	50.143	39.403	-15.639	65.781	10.740	QP
2			0.154	39.920	29.181	-15.861	55.781	10.740	AV
3			0.190	45.092	35.063	-18.945	64.037	10.029	QP
4			0.190	35.440	25.411	-18.597	54.037	10.029	AV
5			0.226	39.834	29.890	-22.762	62.595	9.944	QP
6			0.226	29.456	19.512	-23.139	52.595	9.944	AV
7			0.510	37.801	27.644	-18.199	56.000	10.157	QP
8			0.510	33.614	23.458	-12.386	46.000	10.157	AV
9			1.434	40.892	31.000	-15.108	56.000	9.892	QP
10	*		1.434	40.515	30.623	-5.485	46.000	9.892	AV
11			24.354	38.808	28.601	-21.192	60.000	10.207	QP
12			24.354	32.660	22.453	-17.340	50.000	10.207	AV

Note: Measure Level (dB $\mu$ V) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2016/01/14 - 16:48
Limit: FCC_Part15.207_CE_AC Power	Engineer: Milo Li
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: MeshRanger X20 Dual 5GHz 802.11ac	Power: AC 120V/60Hz
Note: Mode 7	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.150	49.833	38.691	-16.167	66.000	11.142	QP
2			0.150	39.065	27.923	-16.935	56.000	11.142	AV
3			0.190	44.501	34.473	-19.536	64.037	10.028	QP
4			0.190	34.222	24.194	-19.814	54.037	10.028	AV
5			0.510	35.502	25.326	-20.498	56.000	10.176	QP
6			0.510	31.576	21.399	-14.424	46.000	10.176	AV
7			1.194	35.567	25.664	-20.433	56.000	9.903	QP
8			1.194	35.546	25.644	-10.454	46.000	9.903	AV
9			1.434	40.010	30.118	-15.990	56.000	9.893	QP
10	*		1.434	39.799	29.906	-6.201	46.000	9.893	AV
11			23.986	38.577	28.304	-21.423	60.000	10.273	QP
12			23.986	32.402	22.129	-17.598	50.000	10.273	AV

Note: Measure Level (dB $\mu$ V) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

## 8. CONCLUSION

The data collected relate only the item(s) tested and show that the **MeshRanger X20 Dual 5GHz**

**802.11ac FCC ID:** 2AD6M-X20 is in compliance with Part 15E of the FCC Rules.

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The End

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