

4.4 Radiated Emission Band Edge	VERDICT: PASS
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4.4.1 Limit

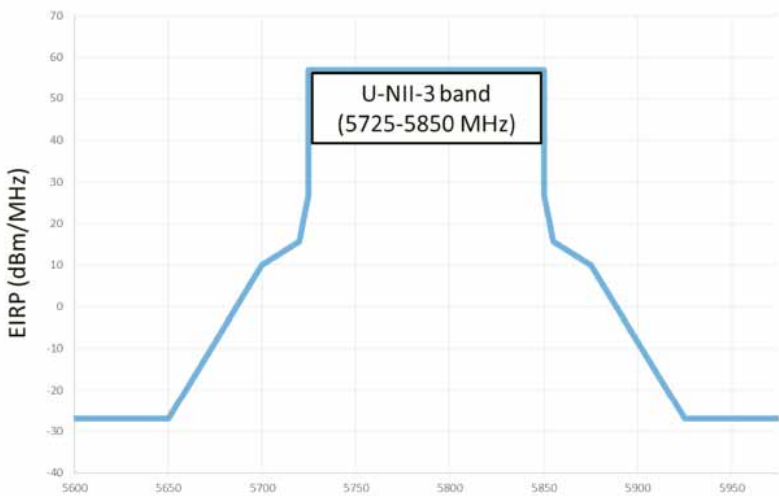
Standard		FCC Part 15 Subpart E Paragraph 15.205	
Restricted Bands of operation			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 –16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975–12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675–12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			

Restricted Band Emissions Limit			
Frequency (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

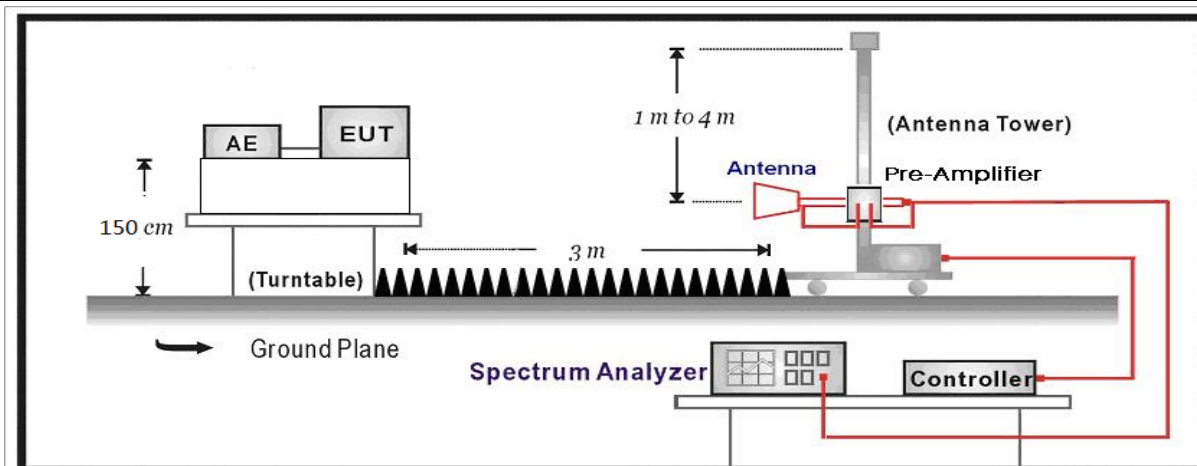
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

FCC Part 15 Subpart E Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit)

Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dB μ V/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	
5725 - 5850		

4.4.2 Test Setup

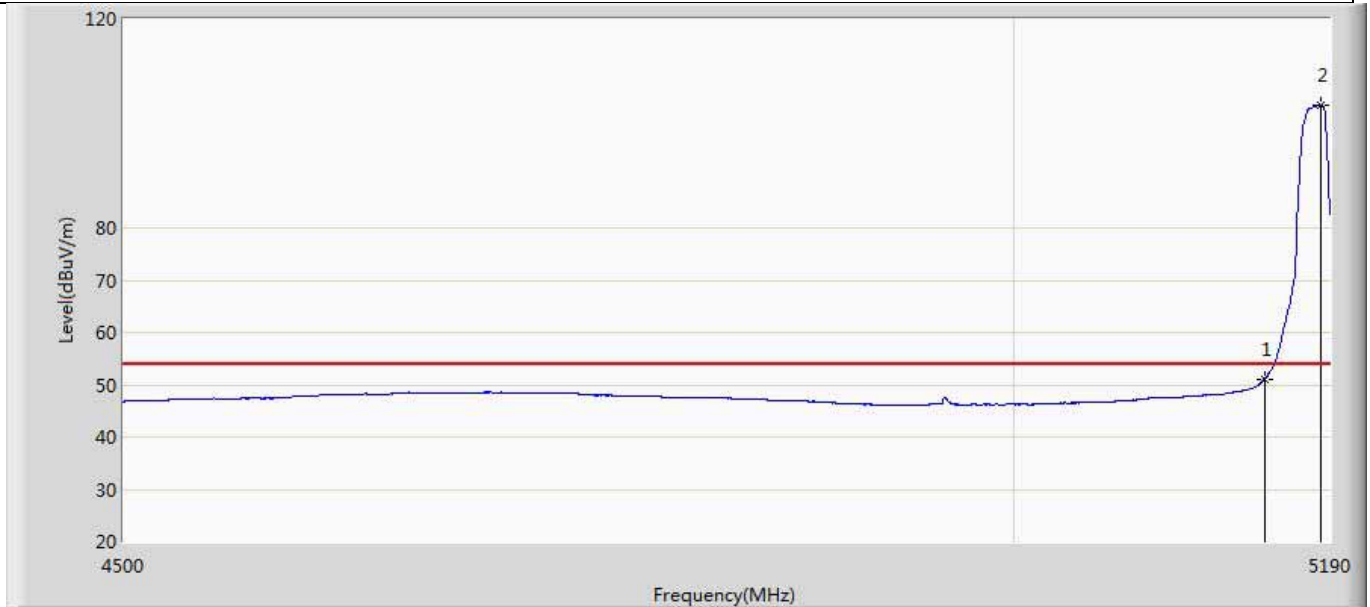
Above 1GHz Test Setup:



4.4.3 Test Procedure				
	References Rule		Chapter	Description
☐	ANSI C63.10		12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10		12.7.2	Emissions in restricted frequency bands
	☒	ANSI C63.10	12.7.5	Radiated emission measurements
	☒	ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
	☒	ANSI C63.10	12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
	☐	ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
	☒	ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
	☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

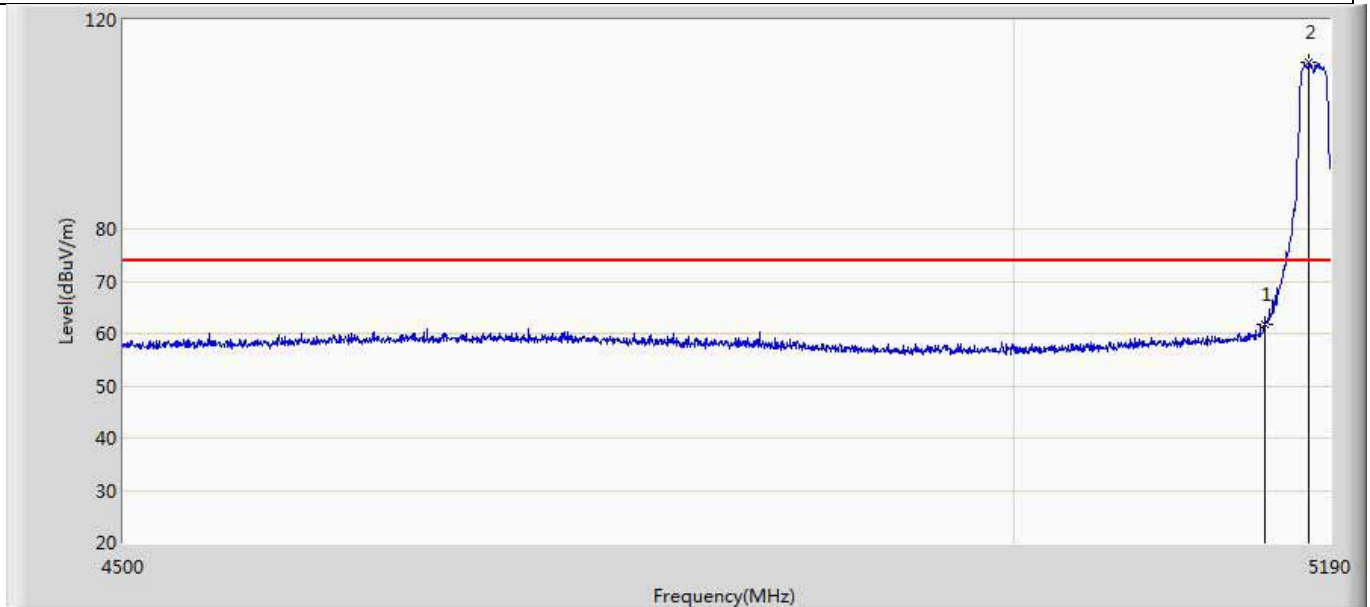
4.4.4 Test Data

Profile: 1962139R	Page No.: 1
Engineer: YULIU	
Site: AC5	Time: 2019/05/21 - 19:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHz by 11a	



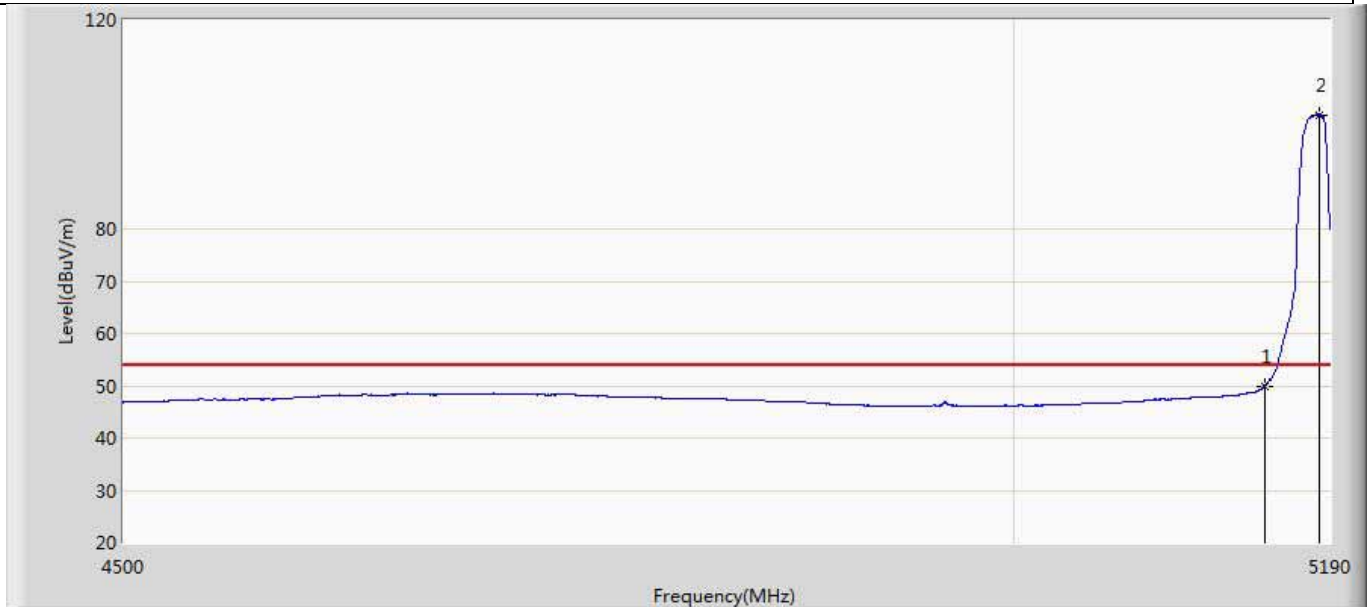
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	51.130	11.596	-2.870	54.000	39.534	AV
2	*	5184.825	103.444	63.865	49.444	54.000	39.580	AV

Profile: 1962139R	Page No.: 2
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 03:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHz by 11a	



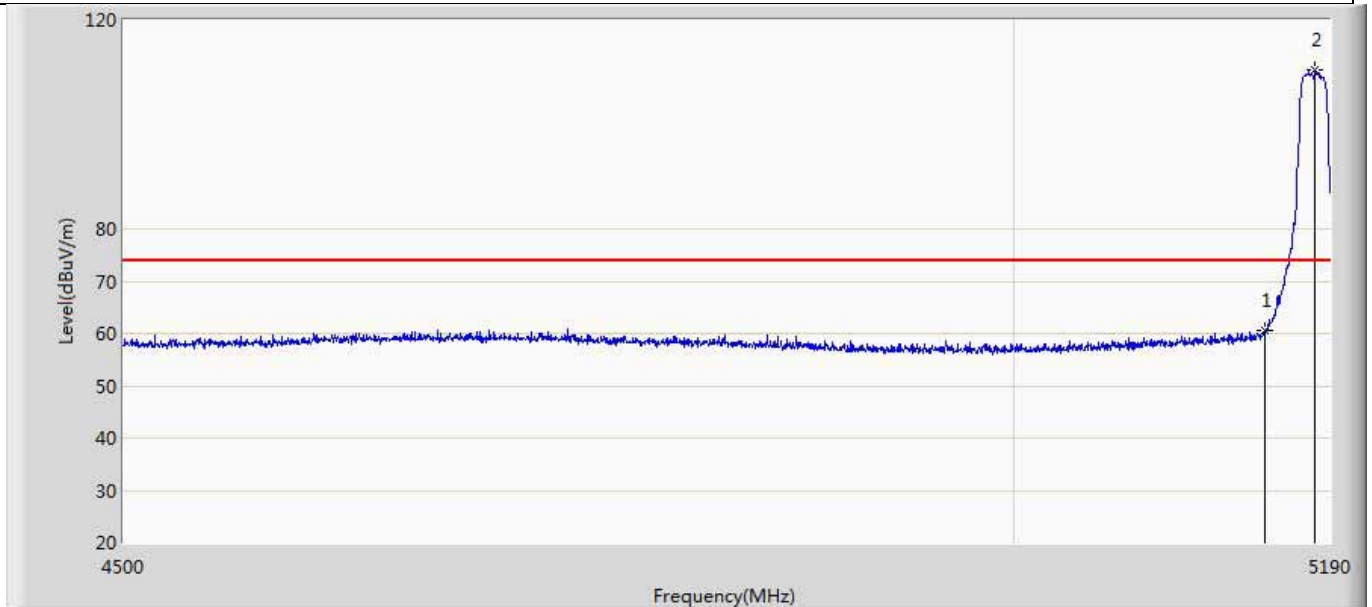
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	61.628	22.094	-12.372	74.000	39.534	PK
2	*	5177.235	111.847	72.256	37.847	74.000	39.591	PK

Profile: 1962139R	Page No.: 3
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 03:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHz by 11a	



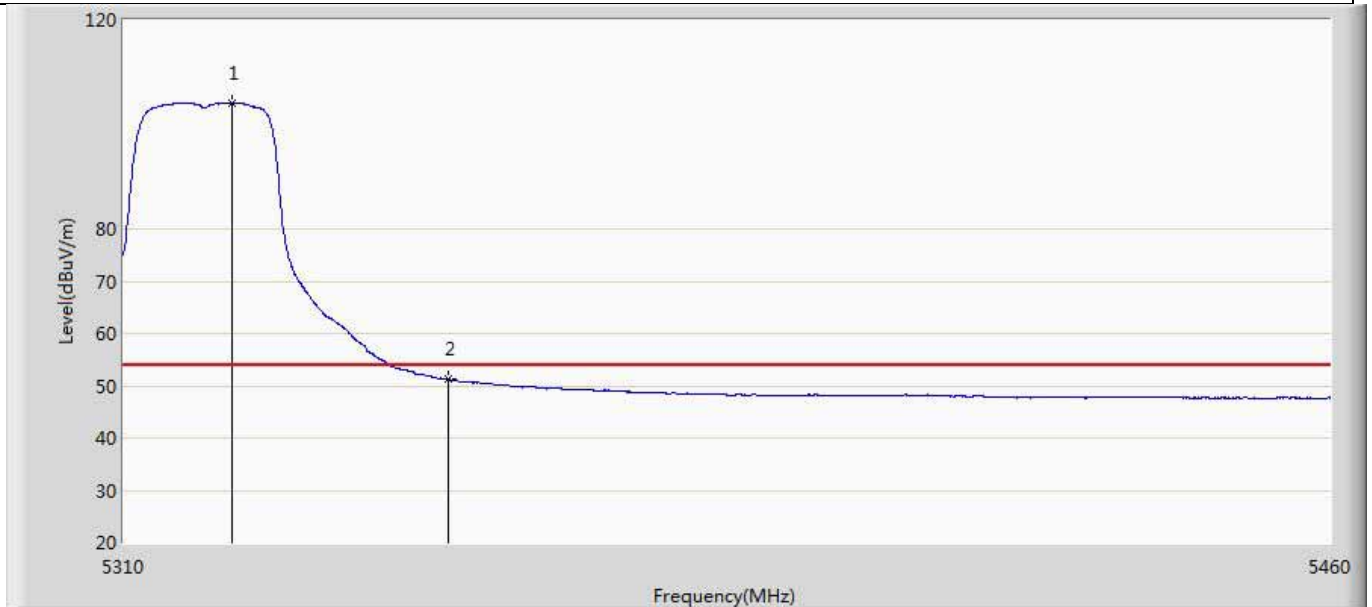
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	49.942	10.408	-4.058	54.000	39.534	AV
2	*	5183.790	101.866	62.296	47.866	54.000	39.570	AV

Profile: 1962139R	Page No.: 4
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 03:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180MHz by 11a	



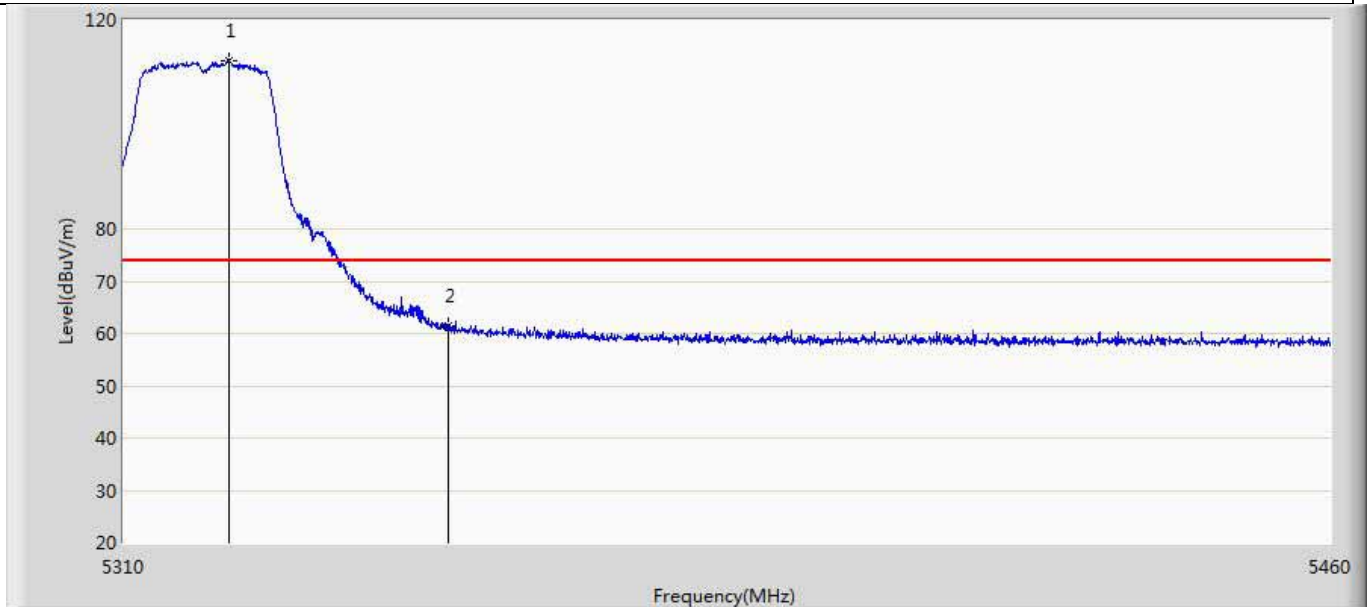
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	60.632	21.098	-13.368	74.000	39.534	PK
2	*	5181.030	110.449	70.888	36.449	74.000	39.561	PK

Profile: 1962139R	Page No.: 5
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 03:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5320MHz by 11a	



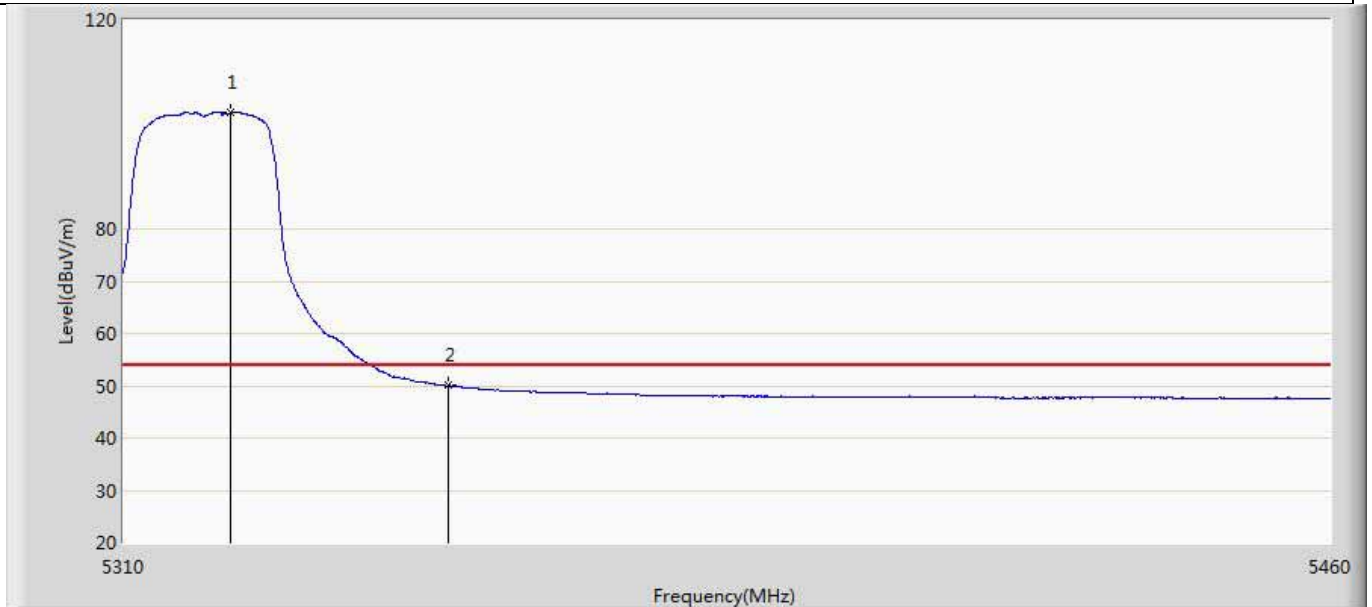
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5323.350	104.058	64.145	50.058	54.000	39.913	AV
2		5350.000	51.221	11.350	-2.779	54.000	39.871	AV

Profile: 1962139R	Page No.: 6
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 04:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5320MHz by 11a	



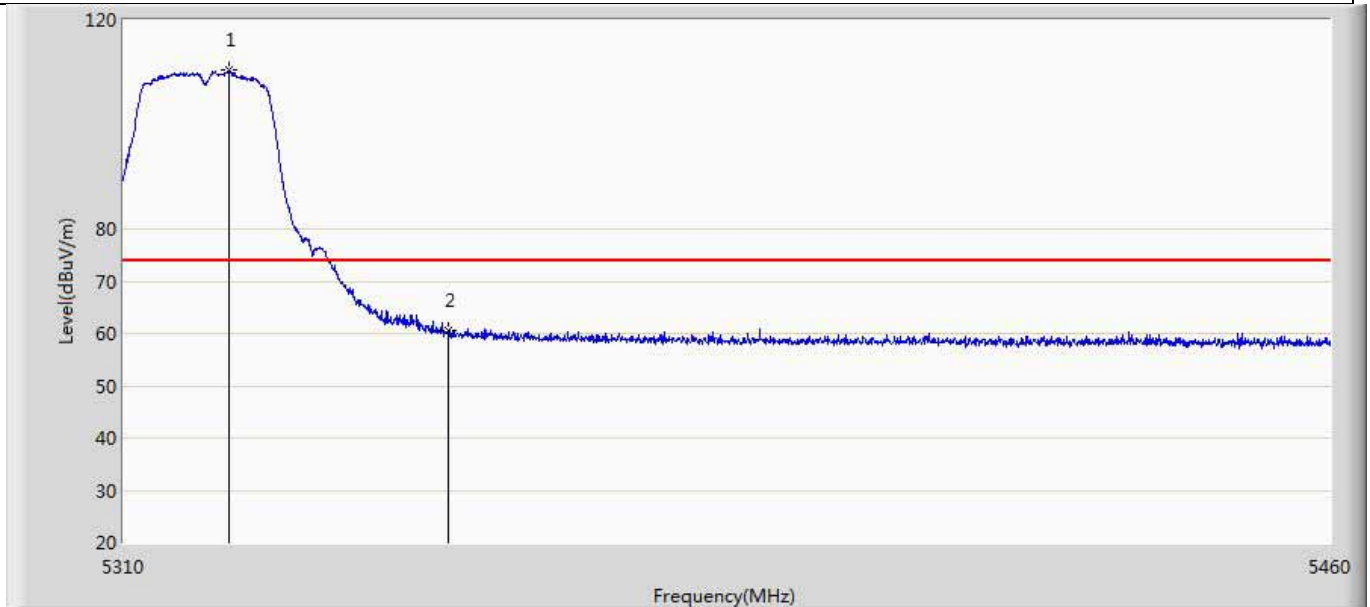
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5322.900	112.198	72.283	38.198	74.000	39.915	PK
2		5350.000	61.444	21.573	-12.556	74.000	39.871	PK

Profile: 1962139R	Page No.: 7
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 04:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5320MHz by 11a	



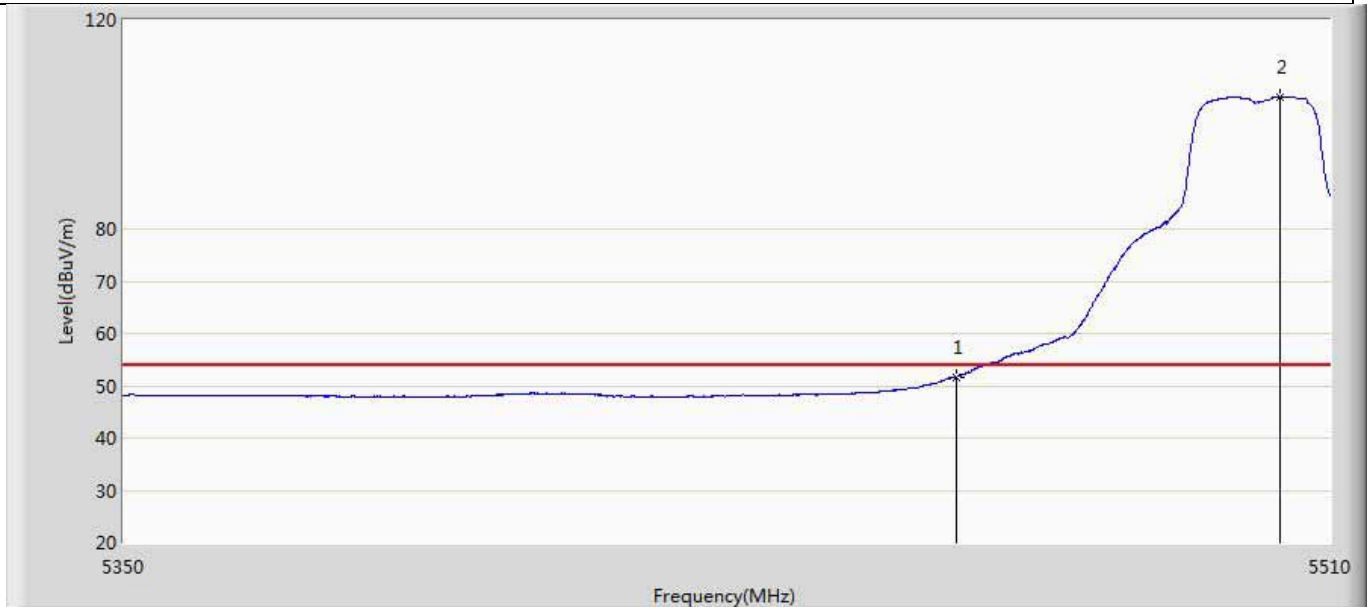
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5323.125	102.192	62.278	48.192	54.000	39.914	AV
2		5350.000	50.044	10.173	-3.956	54.000	39.871	AV

Profile: 1962139R	Page No.: 8
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 04:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5320MHz by 11a	



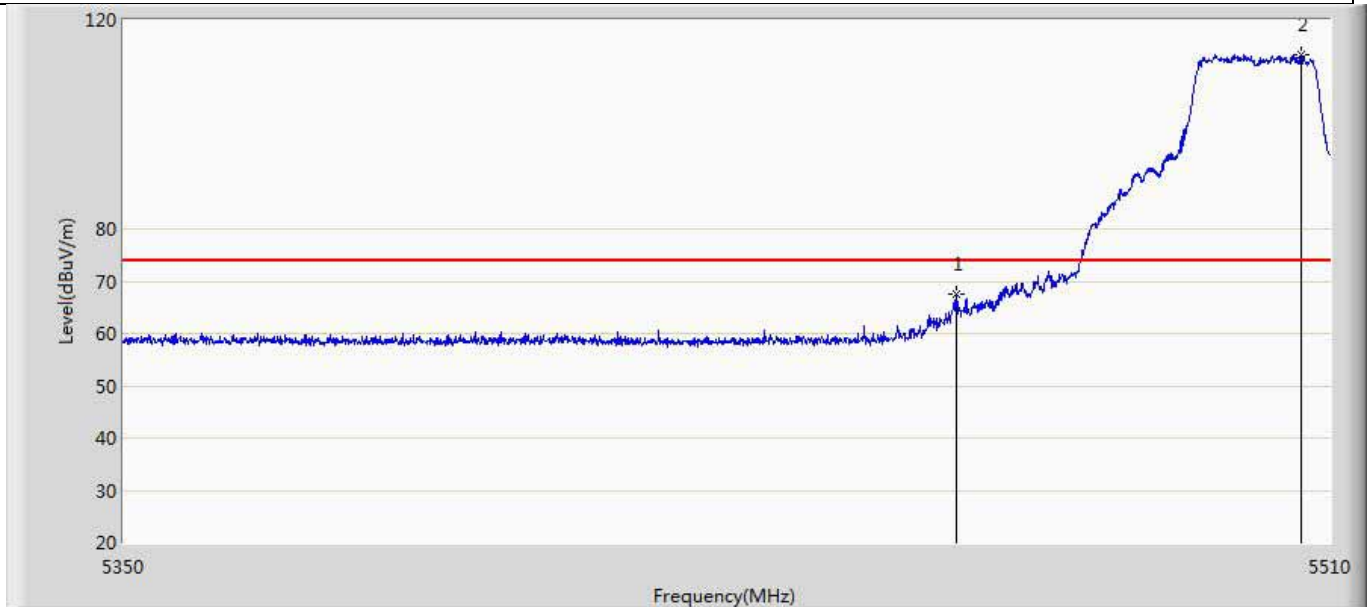
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5322.900	110.470	70.555	36.470	74.000	39.915	PK
2		5350.000	60.463	20.592	-13.537	74.000	39.871	PK

Profile: 1962139R	Page No.: 9
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 04:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5500MHz by 11a	



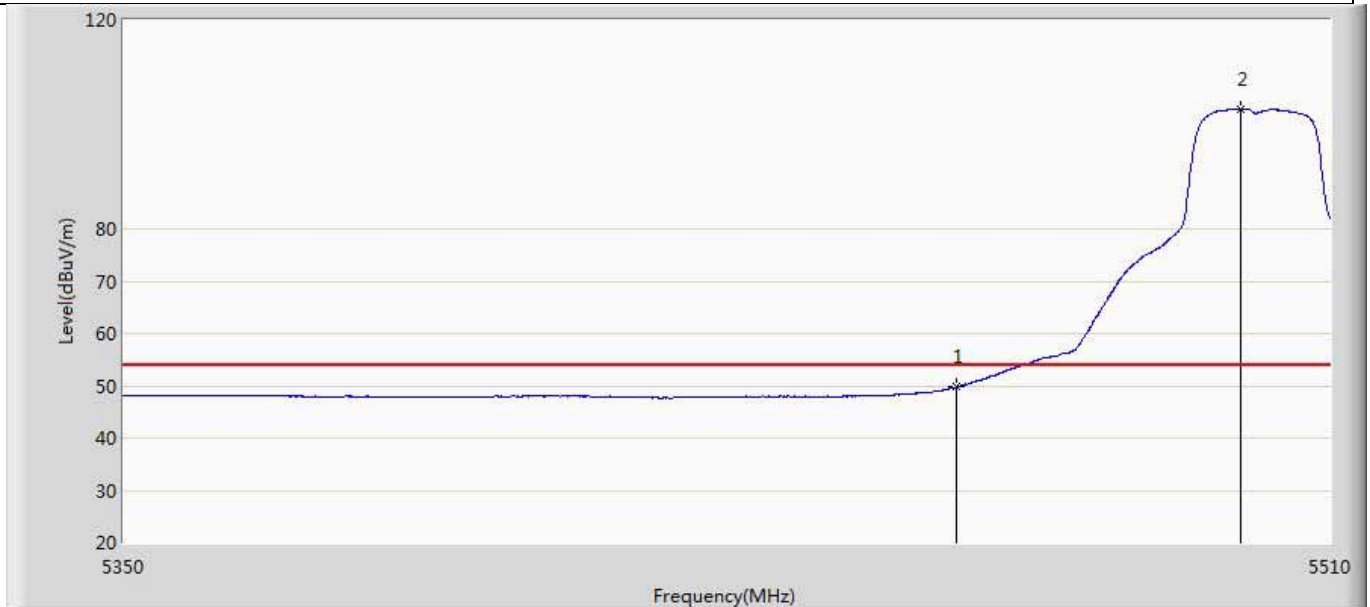
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	51.735	11.701	-2.265	54.000	40.034	AV
2	*	5503.280	105.182	65.066	51.182	54.000	40.116	AV

Profile: 1962139R	Page No.: 10
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 04:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5500MHz by 11a	



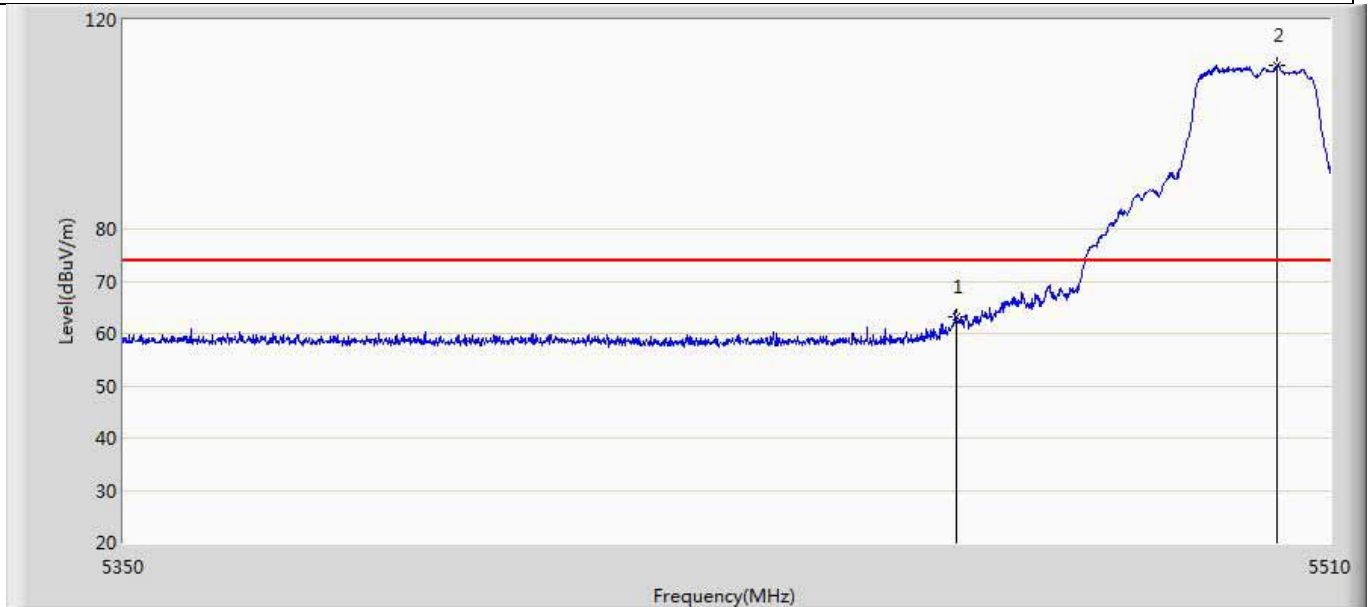
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	67.443	27.409	-6.557	74.000	40.034	PK
2	*	5506.160	113.344	73.232	39.344	74.000	40.113	PK

Profile: 1962139R	Page No.: 11
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 04:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5500MHz by 11a	



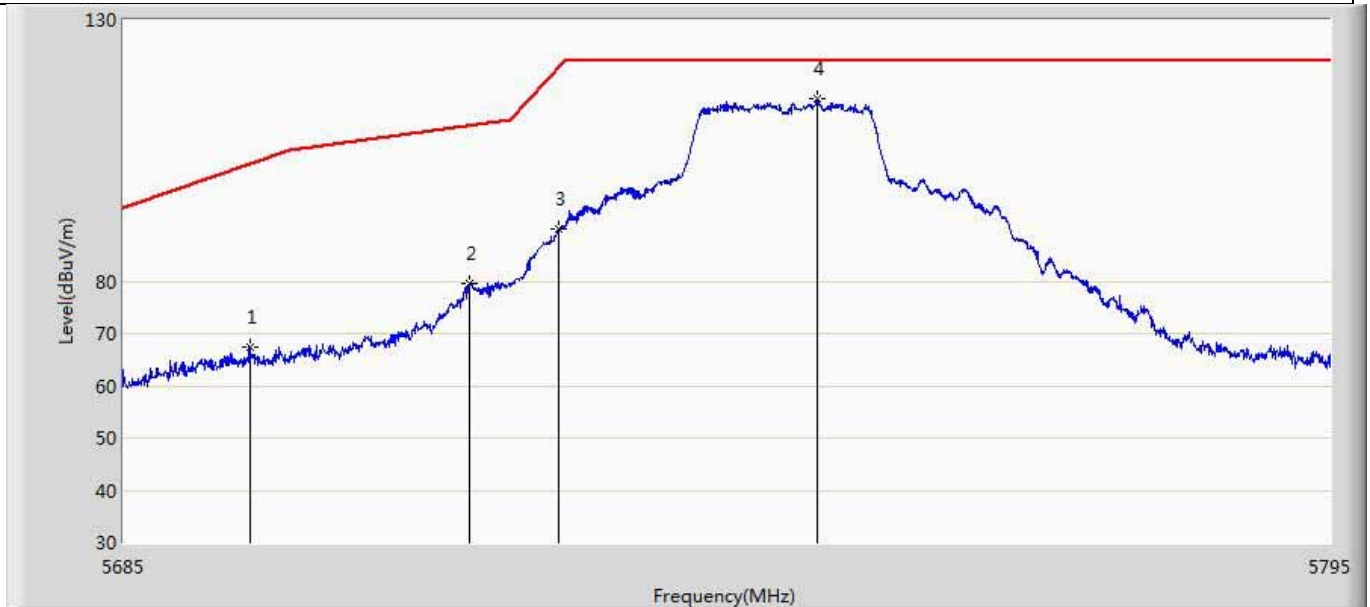
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	49.717	9.683	-4.283	54.000	40.034	AV
2	*	5498.000	103.014	62.883	49.014	54.000	40.131	AV

Profile: 1962139R	Page No.: 12
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 04:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5500MHz by 11a	



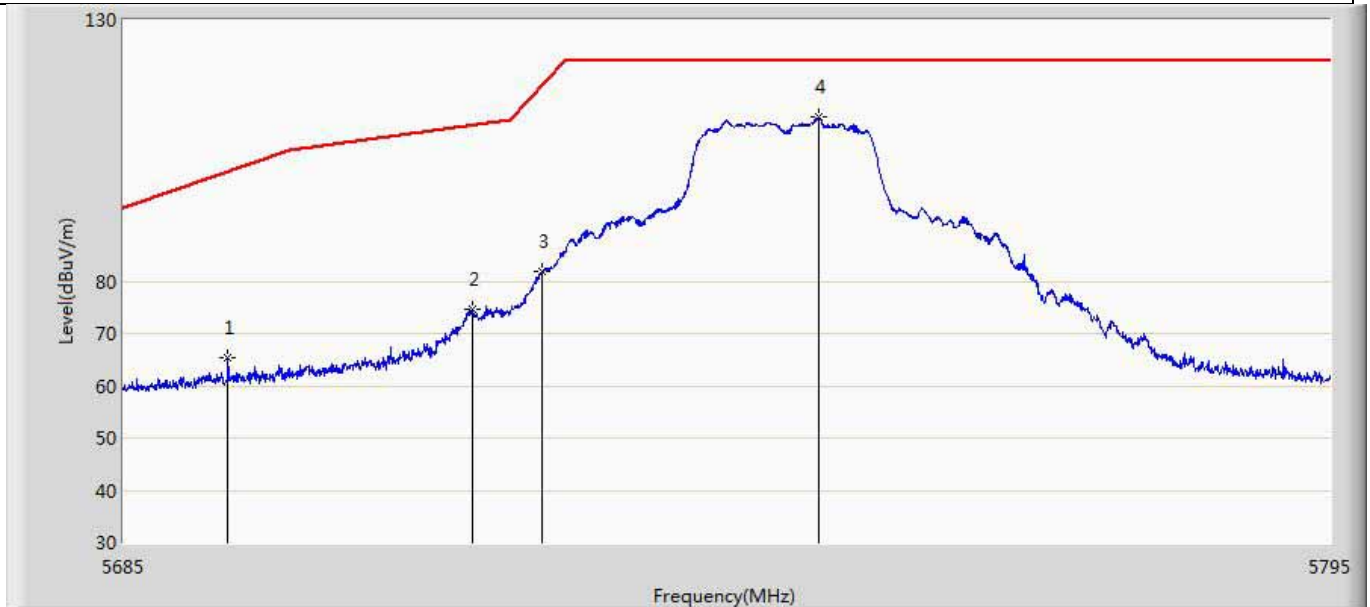
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	63.243	23.209	-10.757	74.000	40.034	PK
2	*	5502.880	111.260	71.143	37.260	74.000	40.117	PK

Profile: 1962139R	Page No.: 13
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 04:33
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5745MHz by 11a	



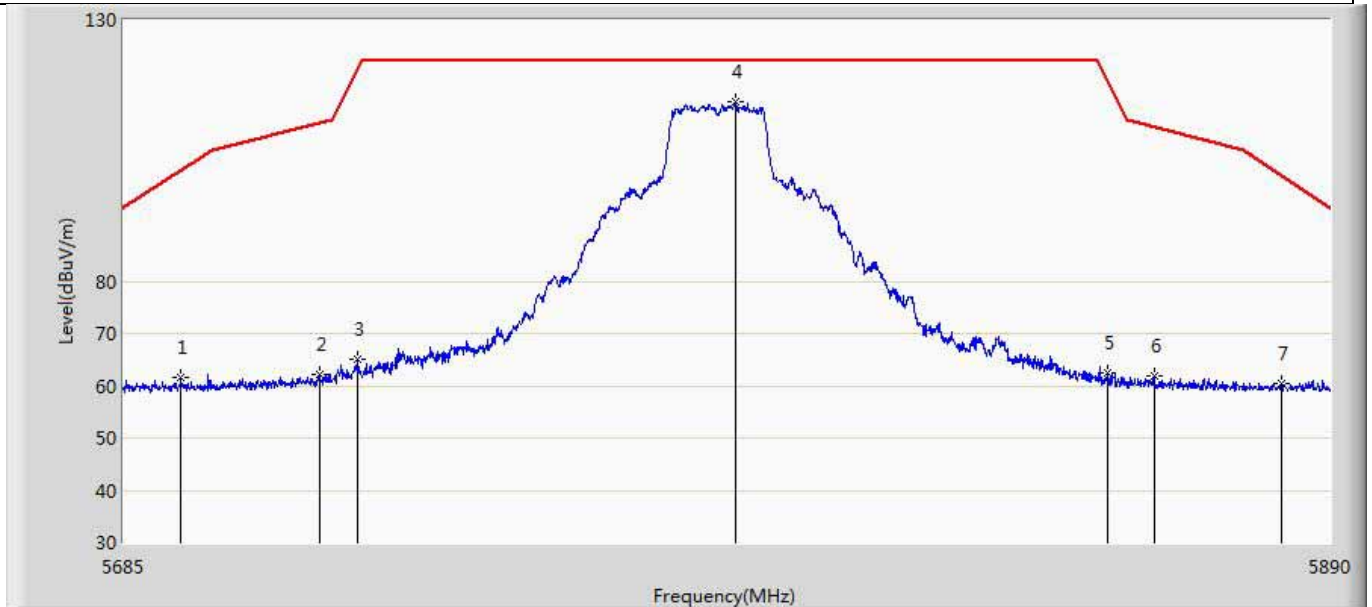
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5696.440	67.460	26.919	-35.116	102.576	40.541	PK
2		5716.350	79.693	39.134	-30.087	109.779	40.559	PK
3		5724.435	89.857	49.343	-31.055	120.912	40.514	PK
4	*	5747.975	114.836	74.243	-7.364	122.200	40.593	PK

Profile: 1962139R	Page No.: 14
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 04:49
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5745MHz by 11a	



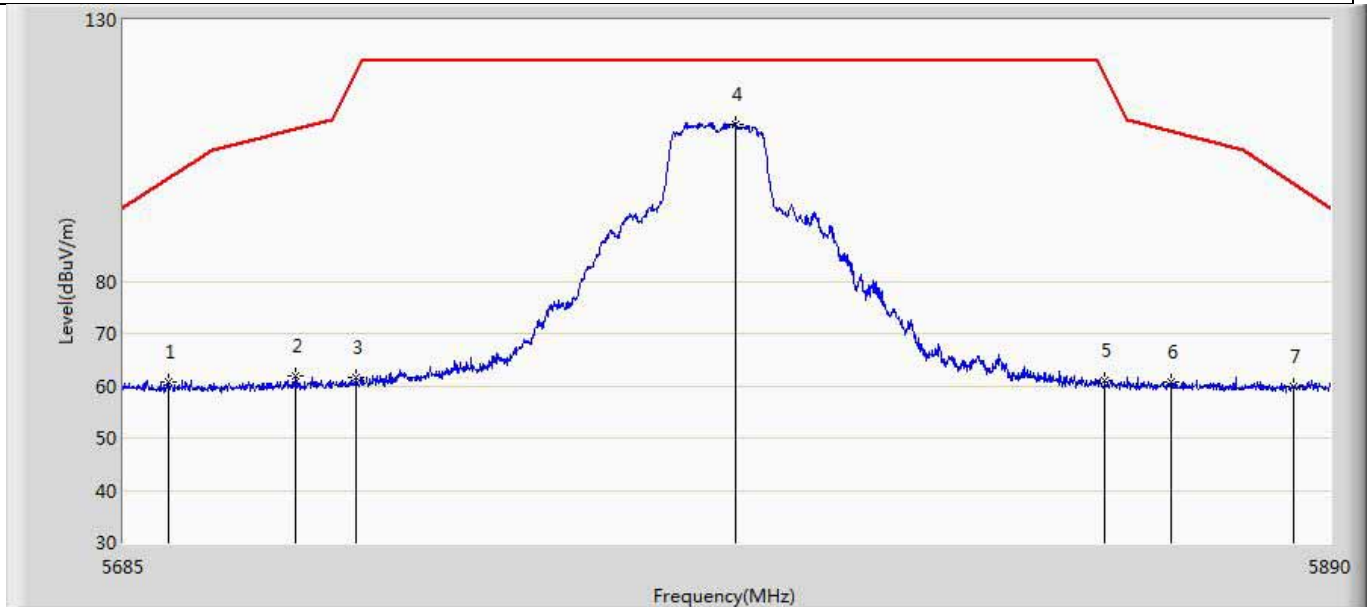
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5694.460	65.331	24.799	-35.785	101.116	40.532	PK
2		5716.570	74.568	34.010	-35.273	109.841	40.557	PK
3		5723.005	82.020	41.498	-35.632	117.653	40.522	PK
4	*	5748.195	111.314	70.720	-10.886	122.200	40.593	PK

Profile: 1962139R	Page No.: 15
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 04:52
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5785MHz by 11a	



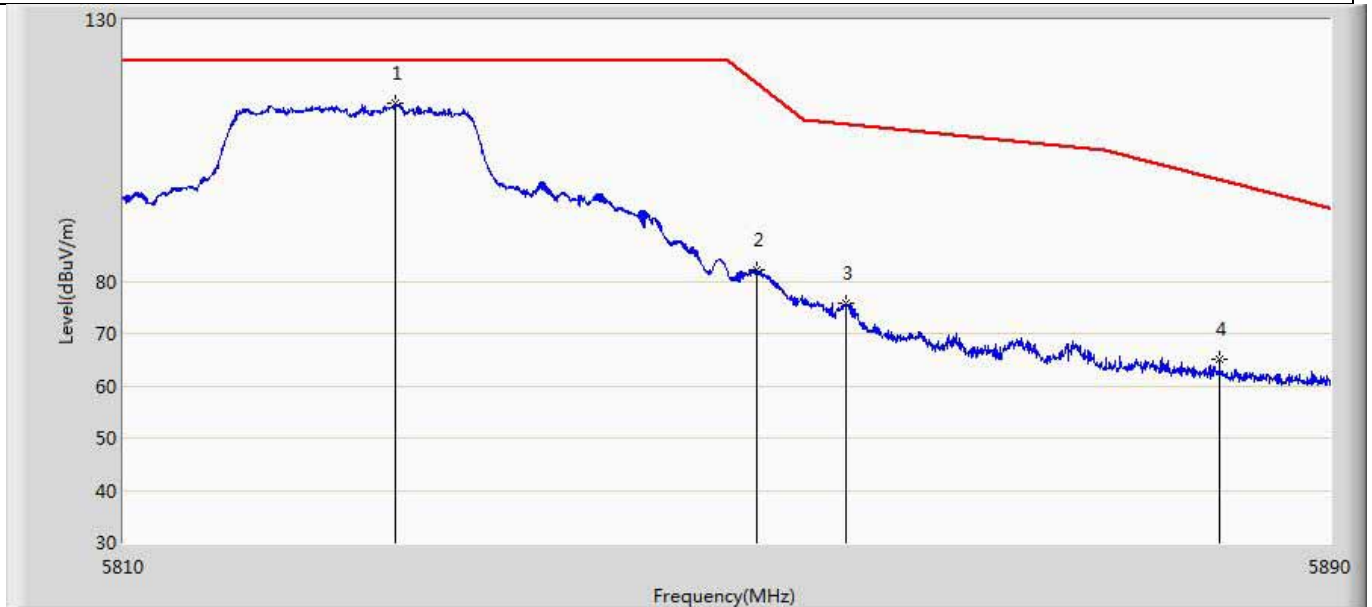
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5694.635	61.630	21.097	-39.616	101.245	40.533	PK
2		5717.800	62.239	21.688	-47.946	110.185	40.551	PK
3		5724.257	65.109	24.594	-55.397	120.507	40.516	PK
4	*	5788.013	114.410	73.684	-7.790	122.200	40.727	PK
5		5851.768	62.468	21.617	-55.699	118.168	40.852	PK
6		5859.660	61.927	21.064	-47.566	109.493	40.864	PK
7		5881.595	60.353	19.527	-39.949	100.302	40.827	PK

Profile: 1962139R	Page No.: 16
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 04:55
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5785MHz by 11a	



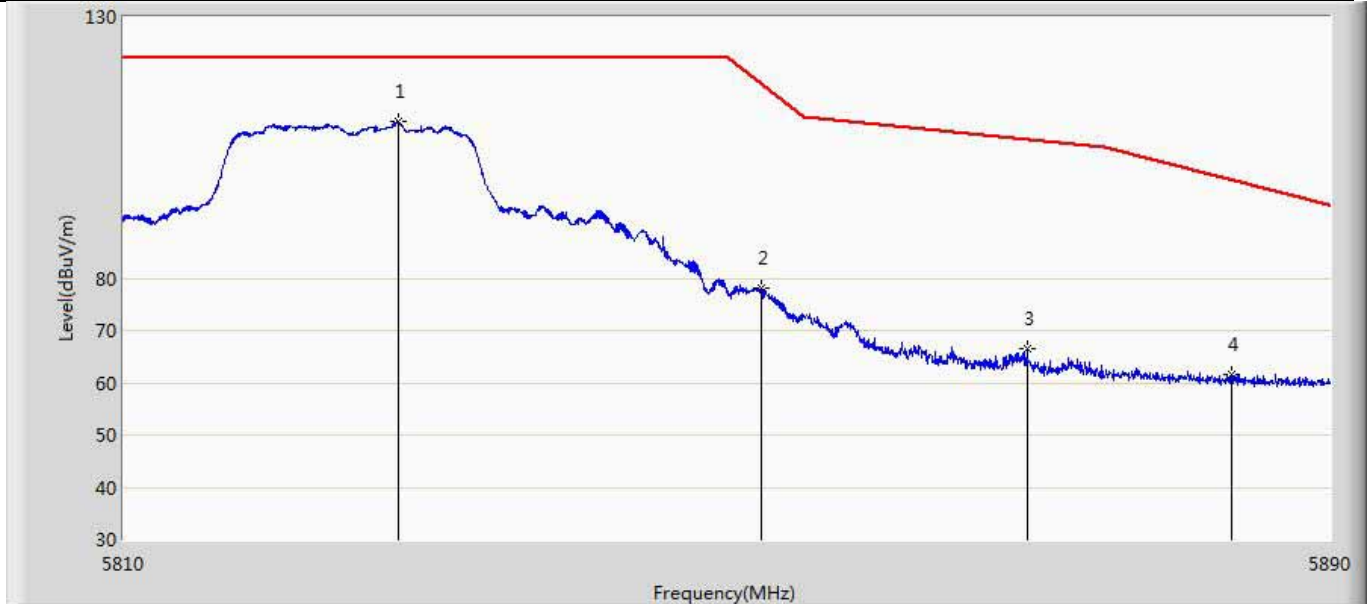
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5692.482	60.750	20.227	-38.908	99.657	40.523	PK
2		5713.905	61.751	21.179	-47.344	109.095	40.573	PK
3		5723.950	61.550	21.033	-58.257	119.807	40.517	PK
4	*	5788.217	109.978	69.250	-12.222	122.200	40.728	PK
5		5851.152	61.141	20.291	-58.431	119.573	40.851	PK
6		5862.632	60.600	19.735	-48.060	108.661	40.866	PK
7		5883.850	59.984	19.156	-38.645	98.628	40.828	PK

Profile: 1962139R	Page No.: 17
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 04:58
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5825MHz by 11a	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5827.920	114.048	73.334	-8.152	122.200	40.714	PK
2		5851.880	82.240	41.388	-35.673	117.912	40.852	PK
3		5857.760	75.915	35.054	-34.112	110.026	40.861	PK
4		5882.640	64.932	24.105	-34.594	99.526	40.827	PK

Profile: 1962139R	Page No.: 18
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 05:03
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5825MHz by 11a	



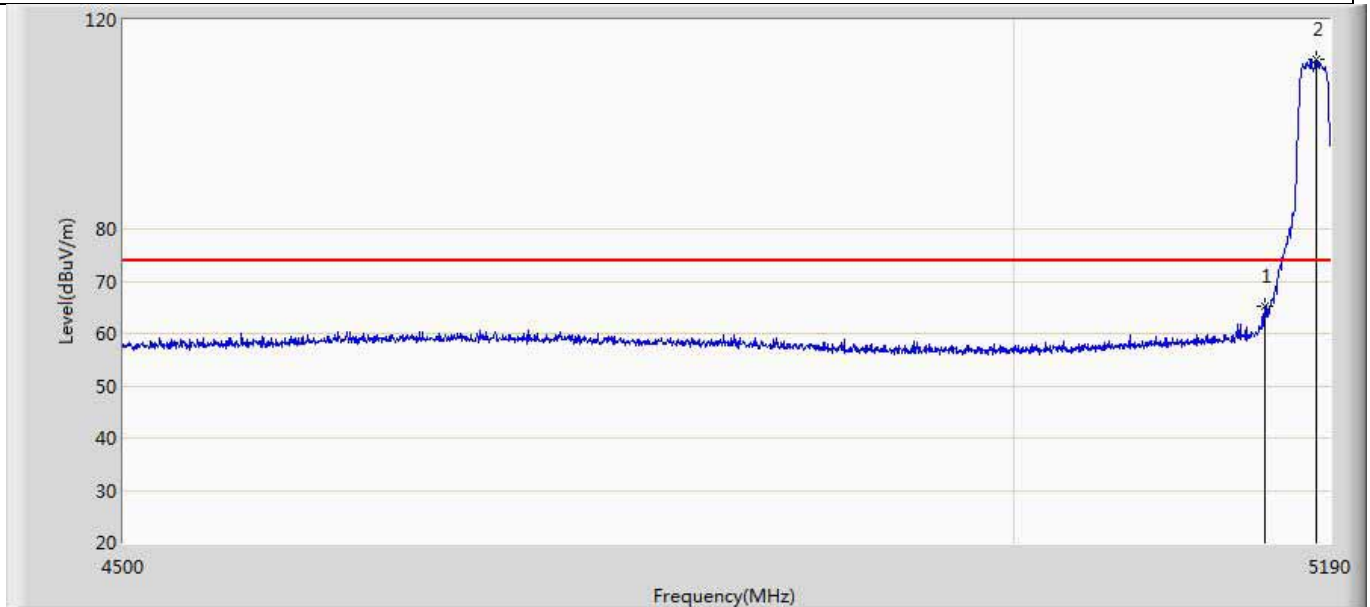
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5828.160	109.858	69.143	-12.342	122.200	40.714	PK
2		5852.200	78.091	37.239	-39.092	117.183	40.852	PK
3		5869.840	66.598	25.751	-40.045	106.643	40.847	PK
4		5883.480	61.538	20.711	-37.364	98.903	40.827	PK

Profile: 1962139R	Page No.: 19
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 05:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5180MHz by 11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	51.335	11.801	-2.665	54.000	39.534	AV
2	*	5182.755	103.142	63.581	49.142	54.000	39.561	AV

Profile: 1962139R	Page No.: 20
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 05:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5180MHz by 11n20	



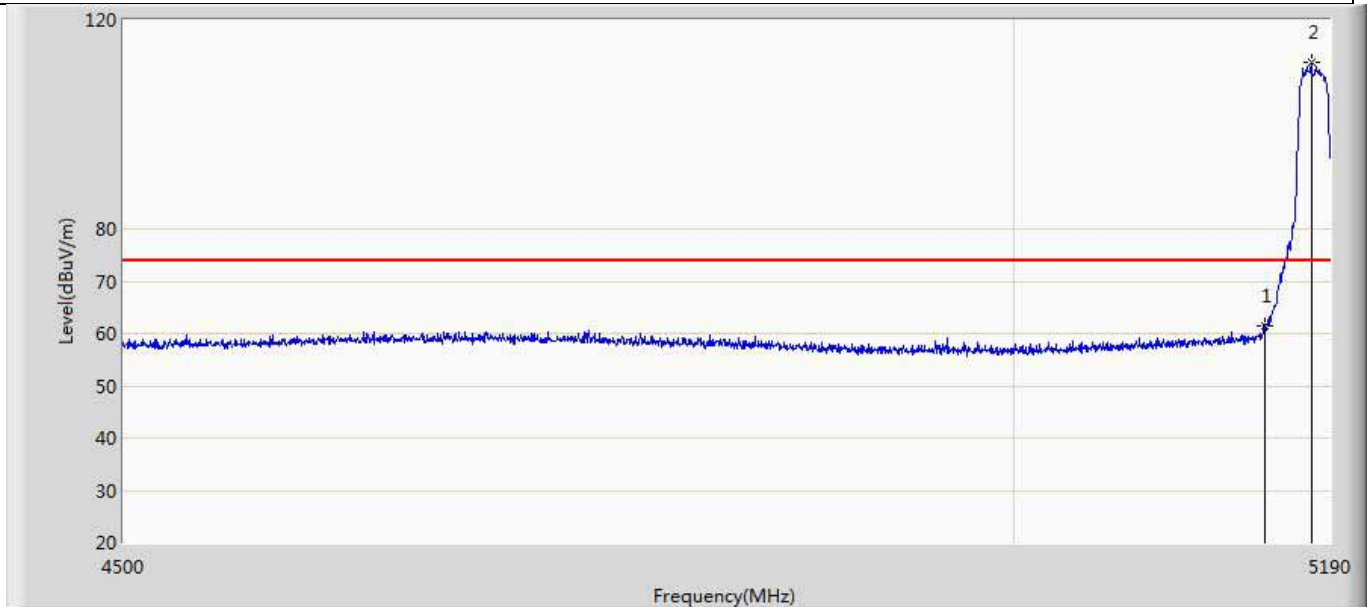
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	65.245	25.711	-8.755	74.000	39.534	PK
2	*	5181.375	112.497	72.938	38.497	74.000	39.558	PK

Profile: 1962139R	Page No.: 21
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 05:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5180MHz by 11n20	



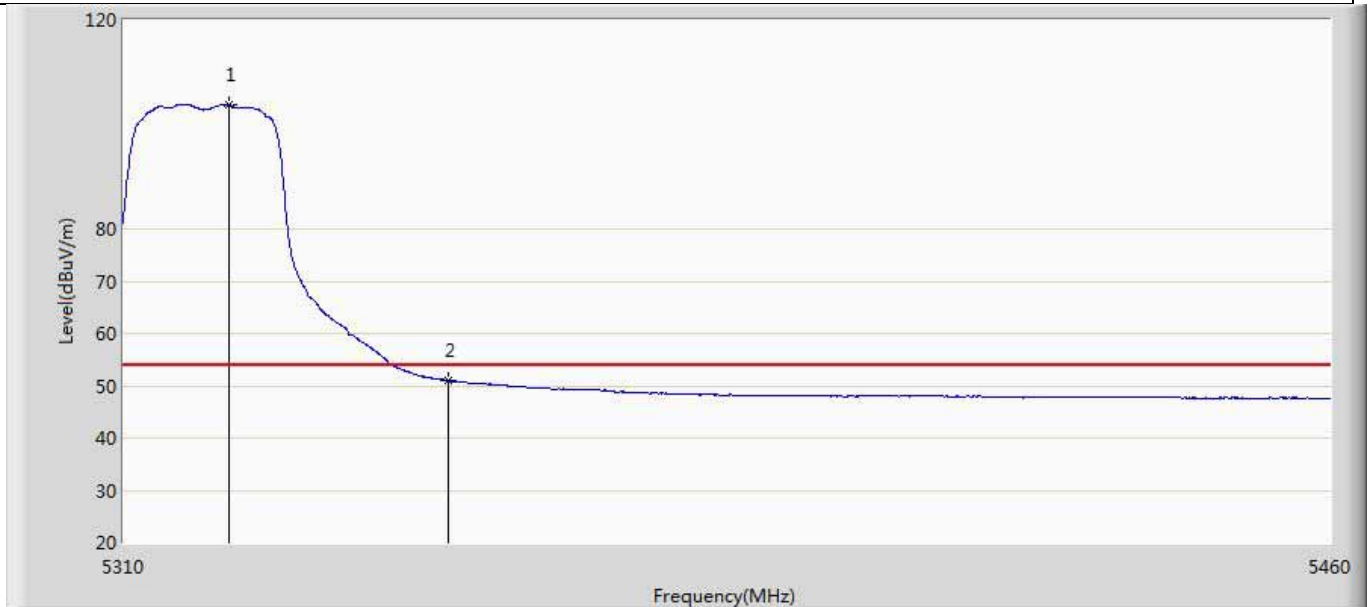
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	50.007	10.473	-3.993	54.000	39.534	AV
2	*	5181.375	101.798	62.239	47.798	54.000	39.558	AV

Profile: 1962139R	Page No.: 22
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 05:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5180MHz by 11n20	



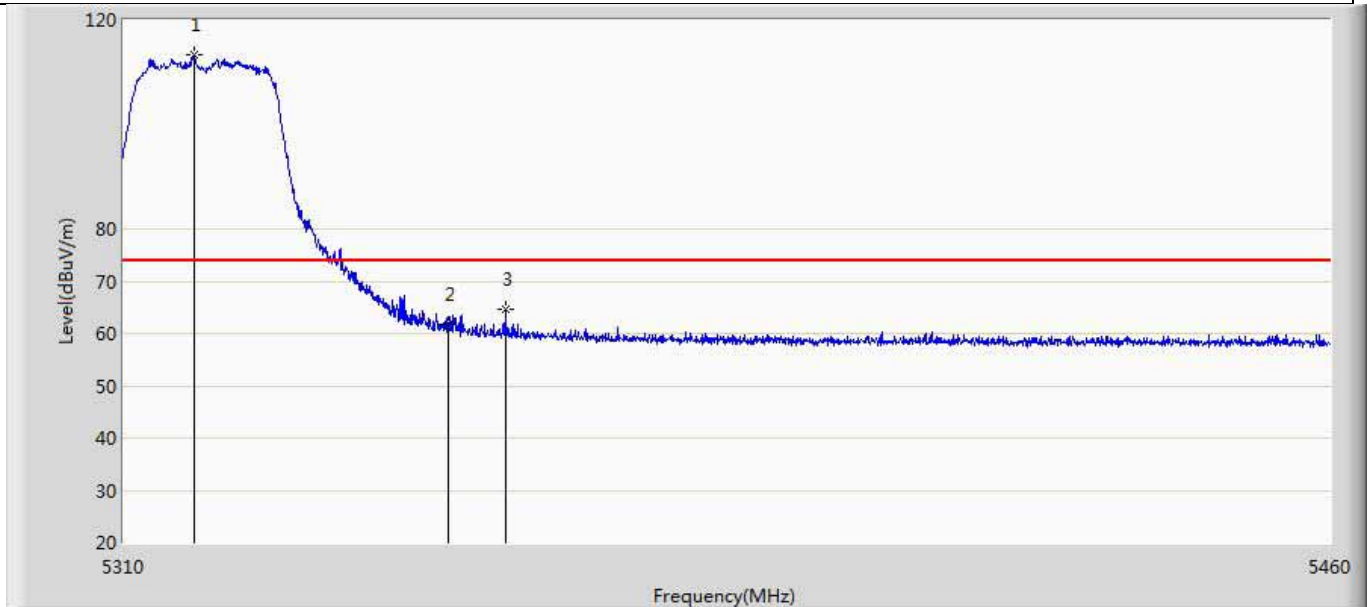
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	61.542	22.008	-12.458	74.000	39.534	PK
2	*	5178.615	111.789	72.209	37.789	74.000	39.580	PK

Profile: 1962139R	Page No.: 23
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 05:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5320MHz by 11n20	



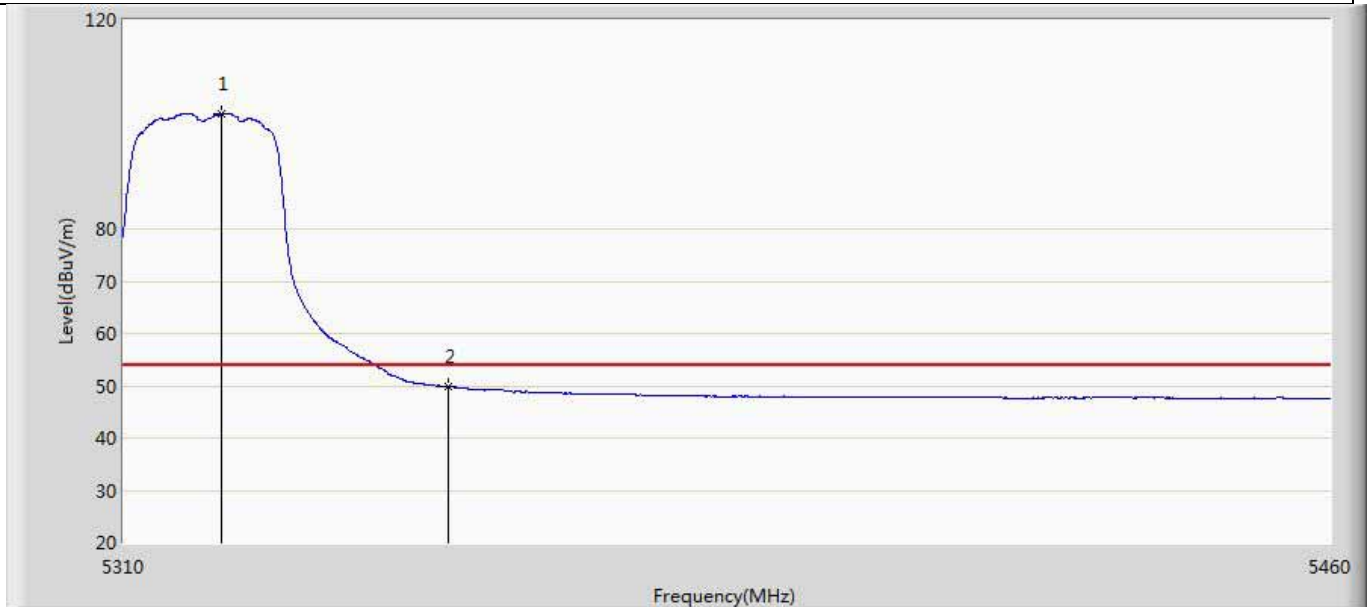
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5322.900	103.703	63.788	49.703	54.000	39.915	AV
2		5350.000	51.040	11.169	-2.960	54.000	39.871	AV

Profile: 1962139R	Page No.: 24
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 05:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5320MHz by 11n20	



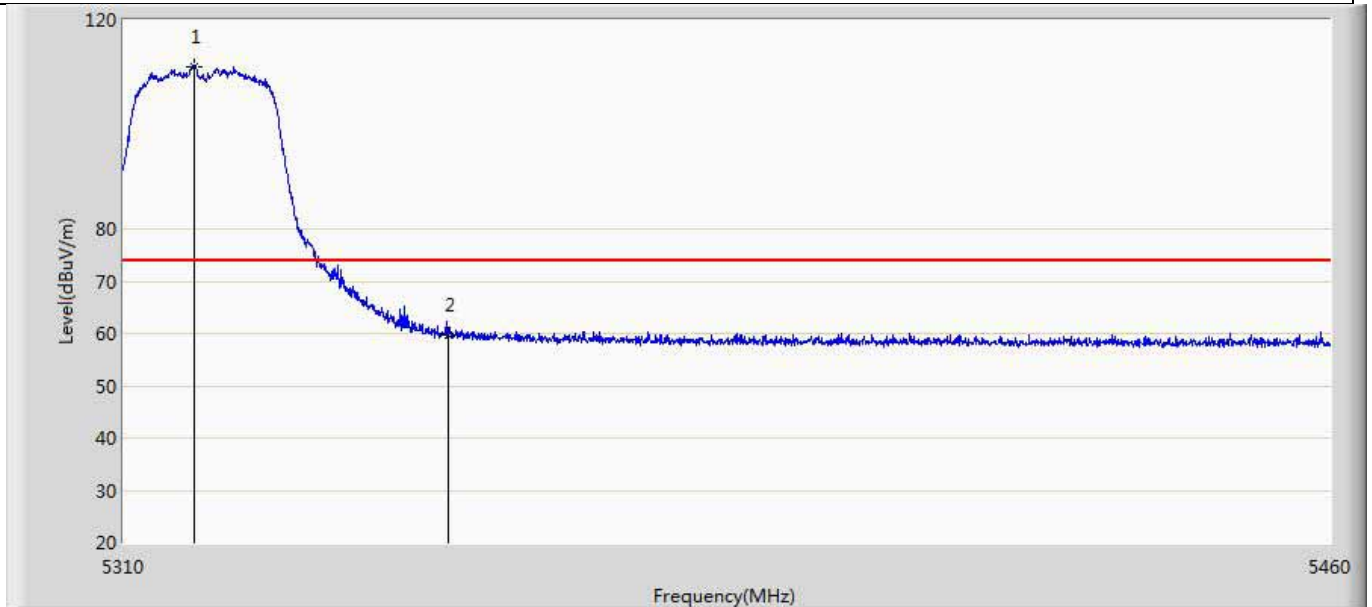
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5318.775	113.402	73.470	39.402	74.000	39.932	PK
2		5350.000	61.625	21.754	-12.375	74.000	39.871	PK
3		5357.025	64.659	24.780	-9.341	74.000	39.879	PK

Profile: 1962139R	Page No.: 25
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 05:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5320MHz by 11n20	



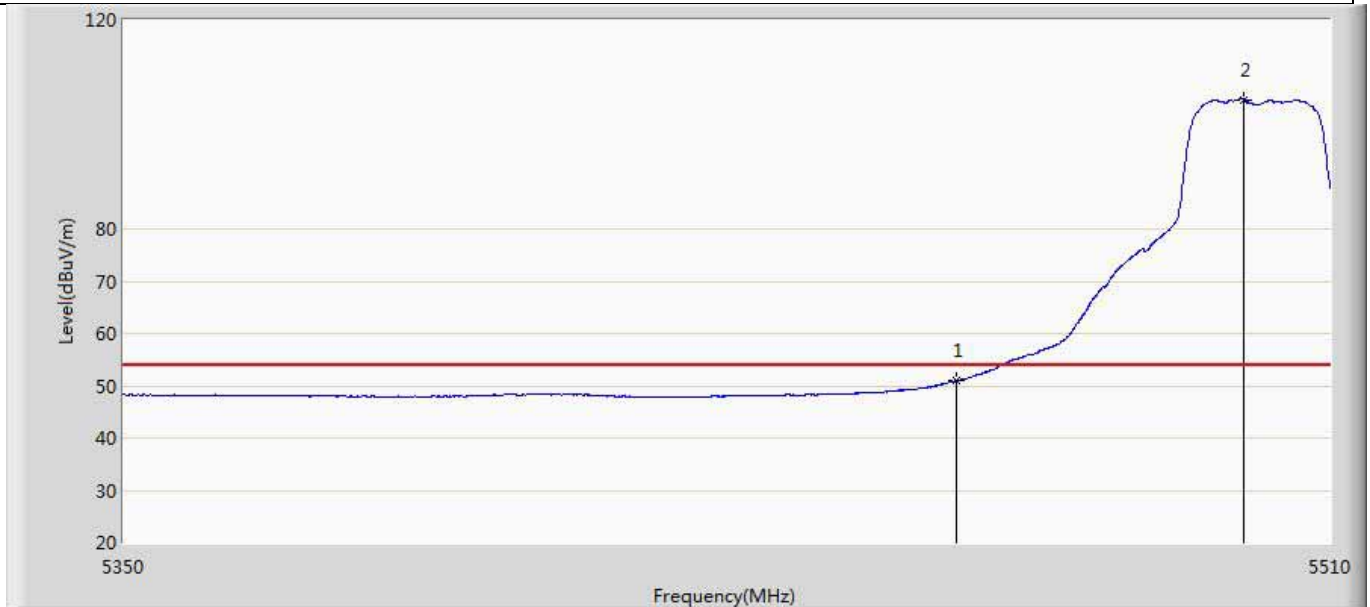
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5322.000	101.928	62.009	47.928	54.000	39.919	AV
2		5350.000	49.856	9.985	-4.144	54.000	39.871	AV

Profile: 1962139R	Page No.: 26
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 05:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5320MHz by 11n20	



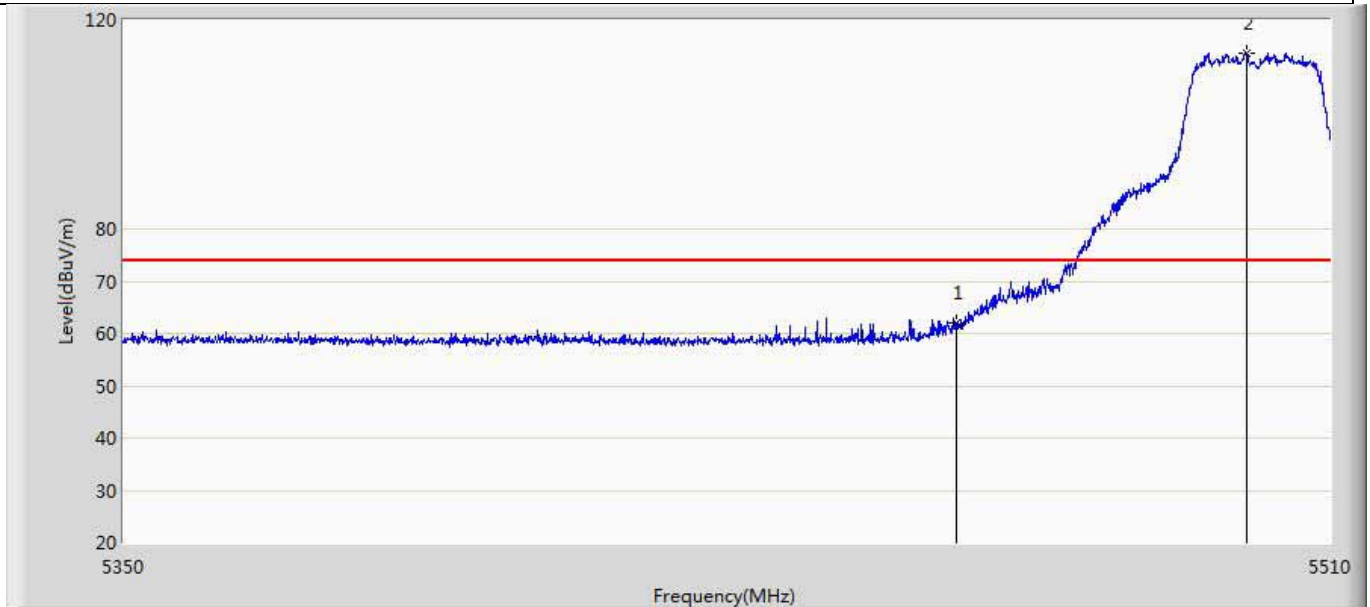
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5318.700	111.159	71.227	37.159	74.000	39.932	PK
2		5350.000	59.742	19.871	-14.258	74.000	39.871	PK

Profile: 1962139R	Page No.: 27
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 05:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5500MHz by 11n20	



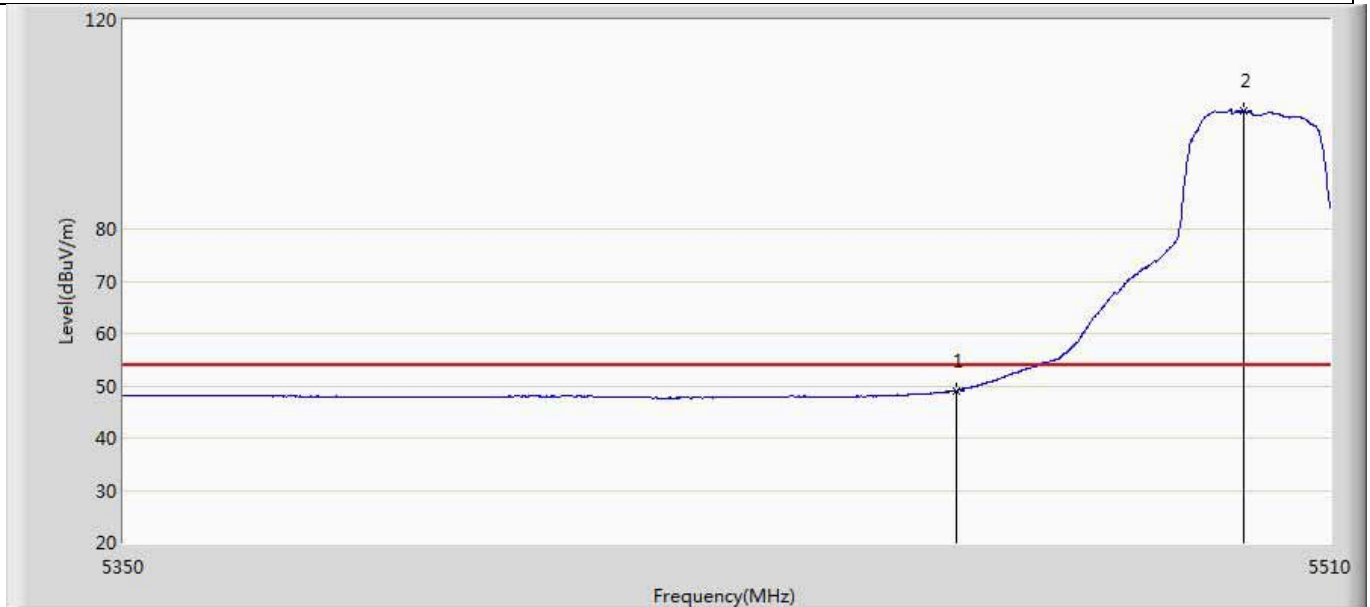
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	51.020	10.986	-2.980	54.000	40.034	AV
2	*	5498.480	104.696	64.566	50.696	54.000	40.130	AV

Profile: 1962139R	Page No.: 28
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 05:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5500MHz by 11n20	



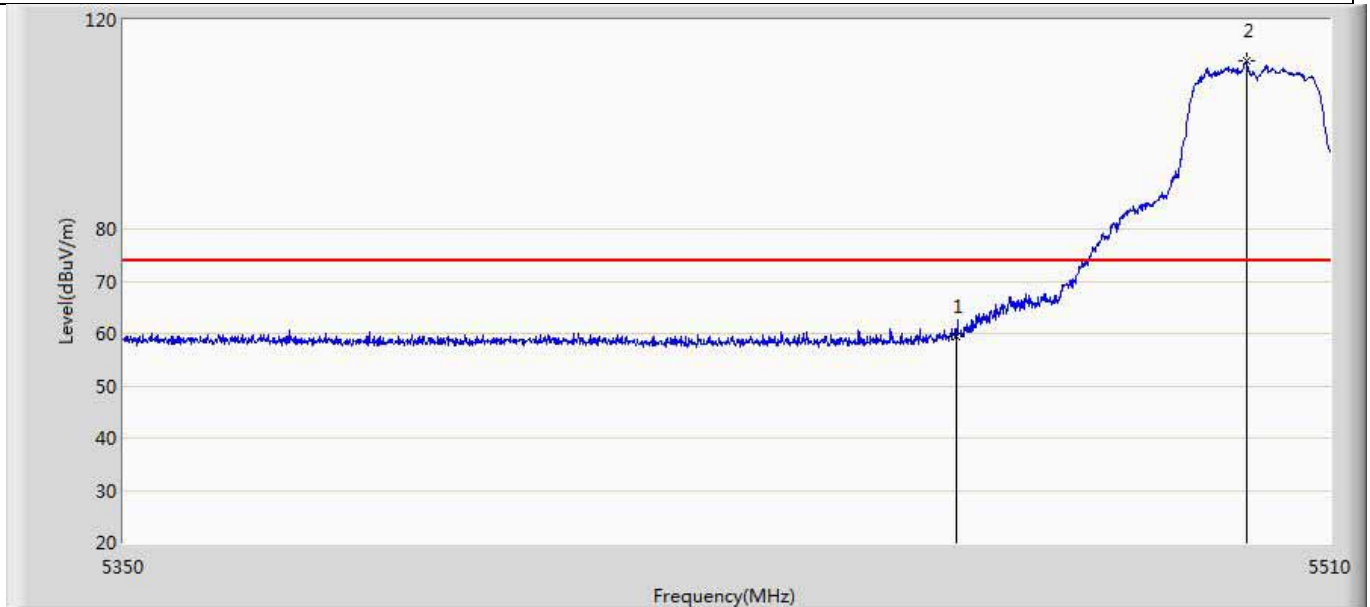
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	61.994	21.960	-12.006	74.000	40.034	PK
2	*	5498.880	113.713	73.585	39.713	74.000	40.128	PK

Profile: 1962139R	Page No.: 29
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 05:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5500MHz by 11n20	



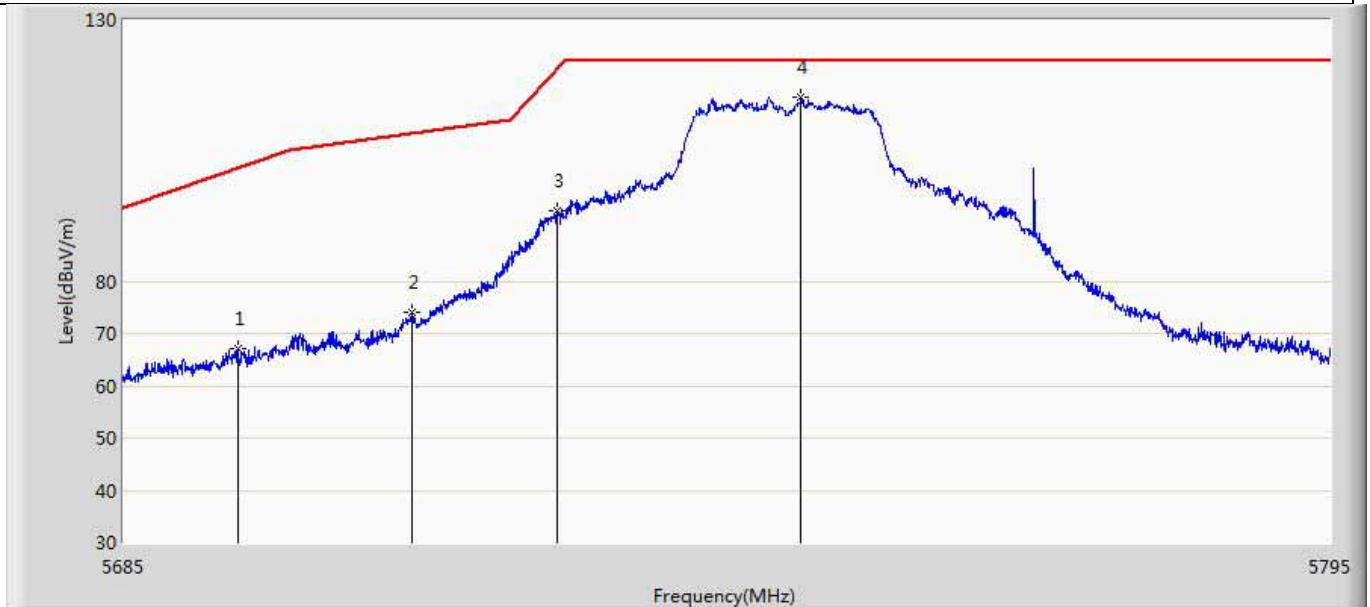
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	49.128	9.094	-4.872	54.000	40.034	AV
2	*	5498.480	102.508	62.378	48.508	54.000	40.130	AV

Profile: 1962139R	Page No.: 30
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5500MHz by 11n20	



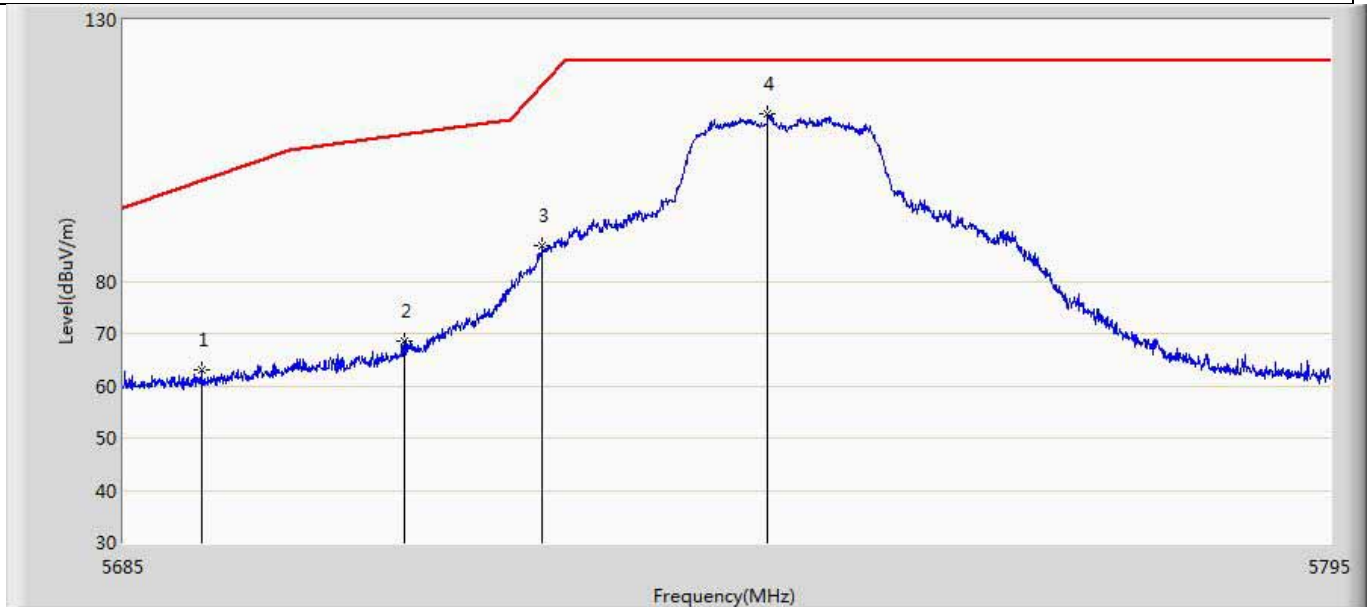
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	59.405	19.371	-14.595	74.000	40.034	PK
2	*	5498.720	112.039	71.910	38.039	74.000	40.129	PK

Profile: 1962139R	Page No.: 31
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:04
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5745MHz by 11n20	



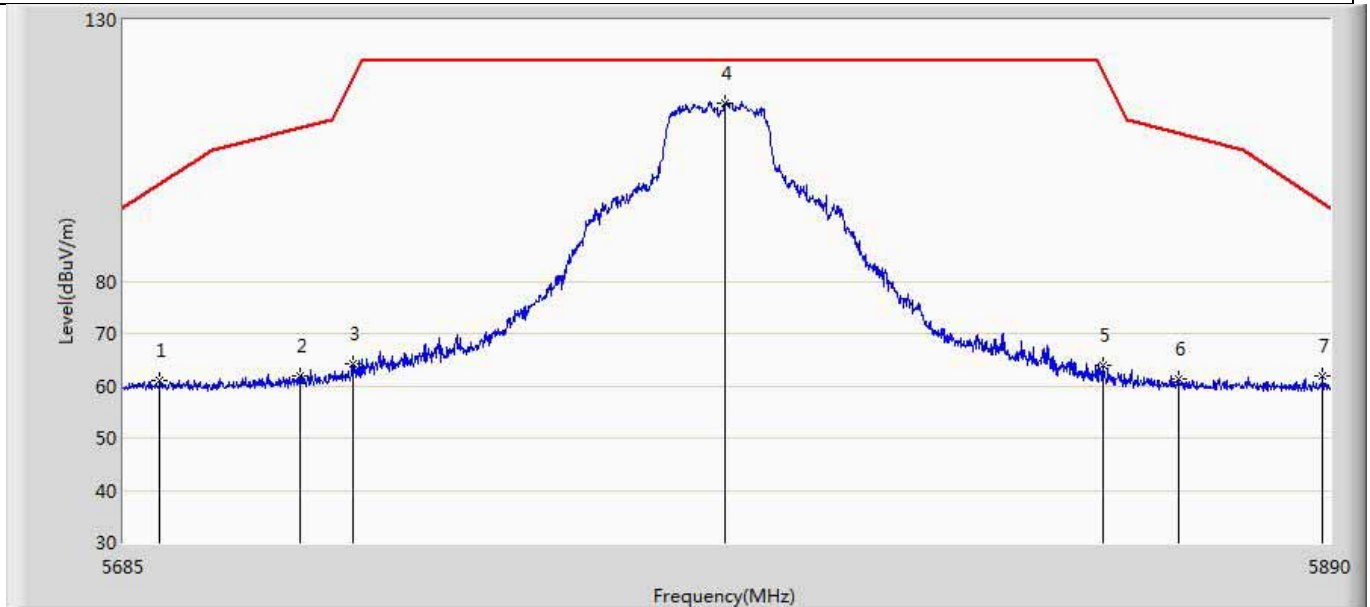
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5695.340	67.187	26.651	-34.578	101.765	40.536	PK
2		5711.070	74.013	33.425	-34.289	108.302	40.588	PK
3		5724.270	93.486	52.971	-27.050	120.536	40.516	PK
4	*	5746.490	115.171	74.581	-7.029	122.200	40.590	PK

Profile: 1962139R	Page No.: 32
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:07
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5745MHz by 11n20	



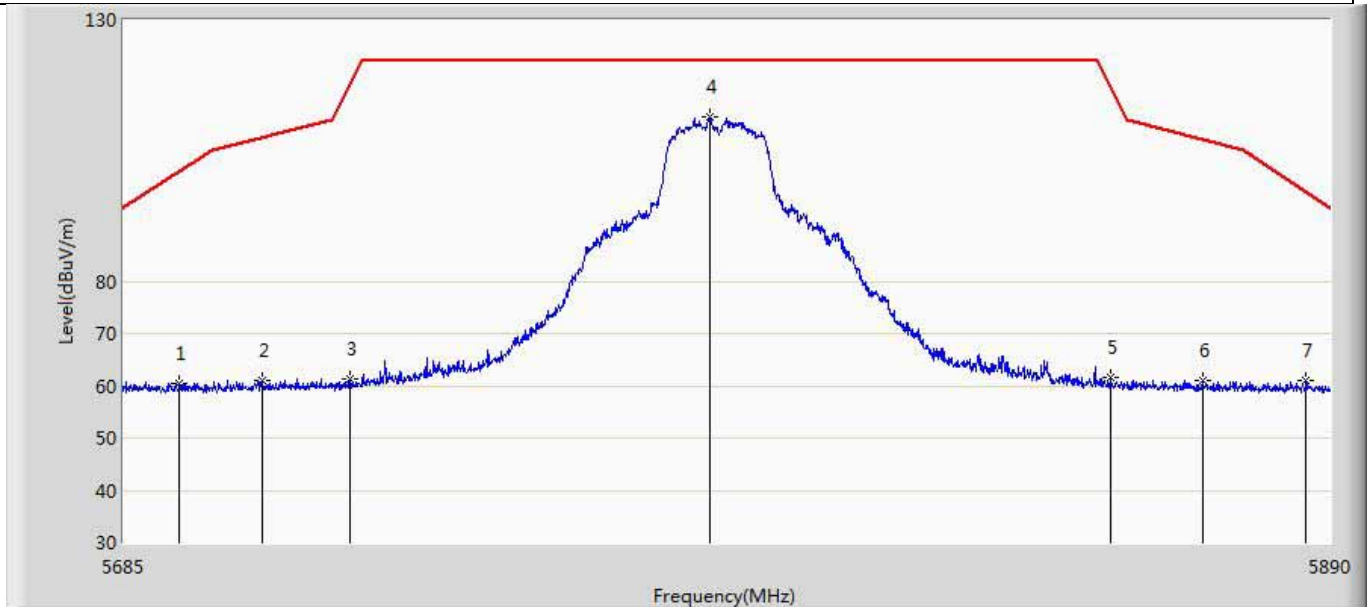
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5692.040	62.938	22.417	-36.394	99.331	40.521	PK
2		5710.410	68.498	27.907	-39.619	108.117	40.592	PK
3		5723.005	86.696	46.174	-30.956	117.653	40.522	PK
4	*	5743.465	111.905	71.322	-10.295	122.200	40.583	PK

Profile: 1962139R	Page No.: 33
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:09
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5785MHz by 11n20	



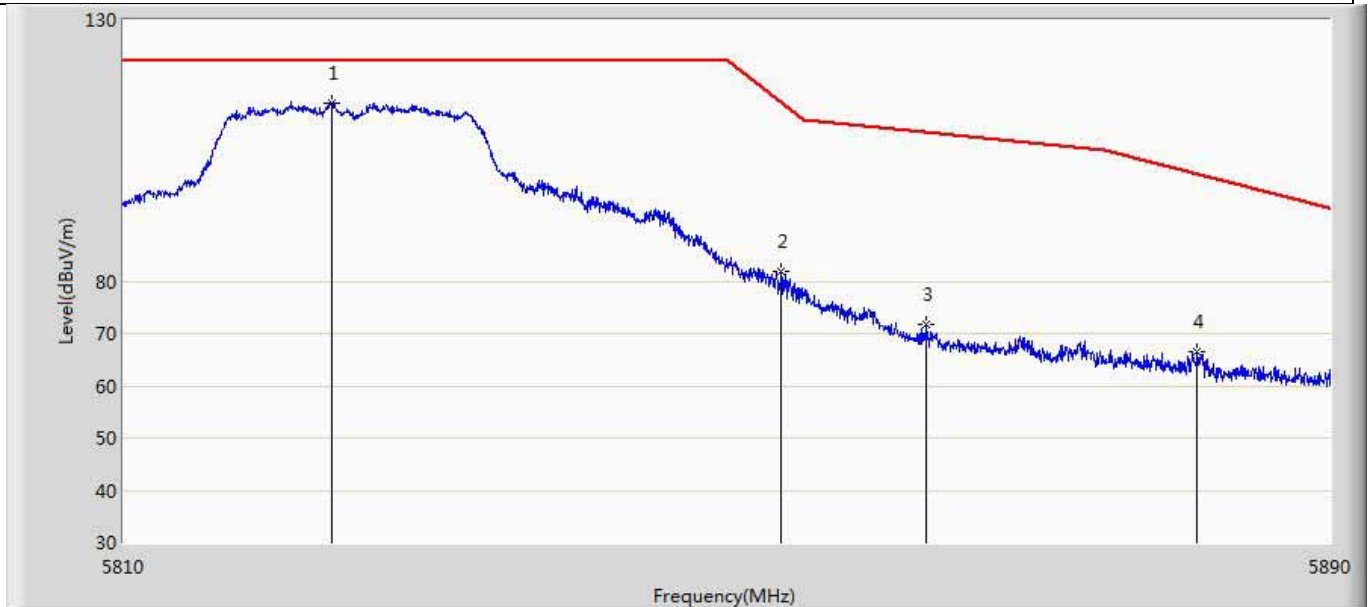
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5691.150	60.905	20.386	-37.769	98.675	40.520	PK
2		5714.520	61.860	21.291	-47.408	109.268	40.568	PK
3		5723.437	64.203	23.683	-54.435	118.637	40.520	PK
4	*	5786.373	114.112	73.397	-8.088	122.200	40.715	PK
5		5850.845	63.788	22.938	-56.485	120.273	40.850	PK
6		5863.862	61.412	20.550	-46.904	108.316	40.863	PK
7		5888.770	61.818	20.987	-33.161	94.979	40.831	PK

Profile: 1962139R	Page No.: 34
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:13
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5785MHz by 11n20	



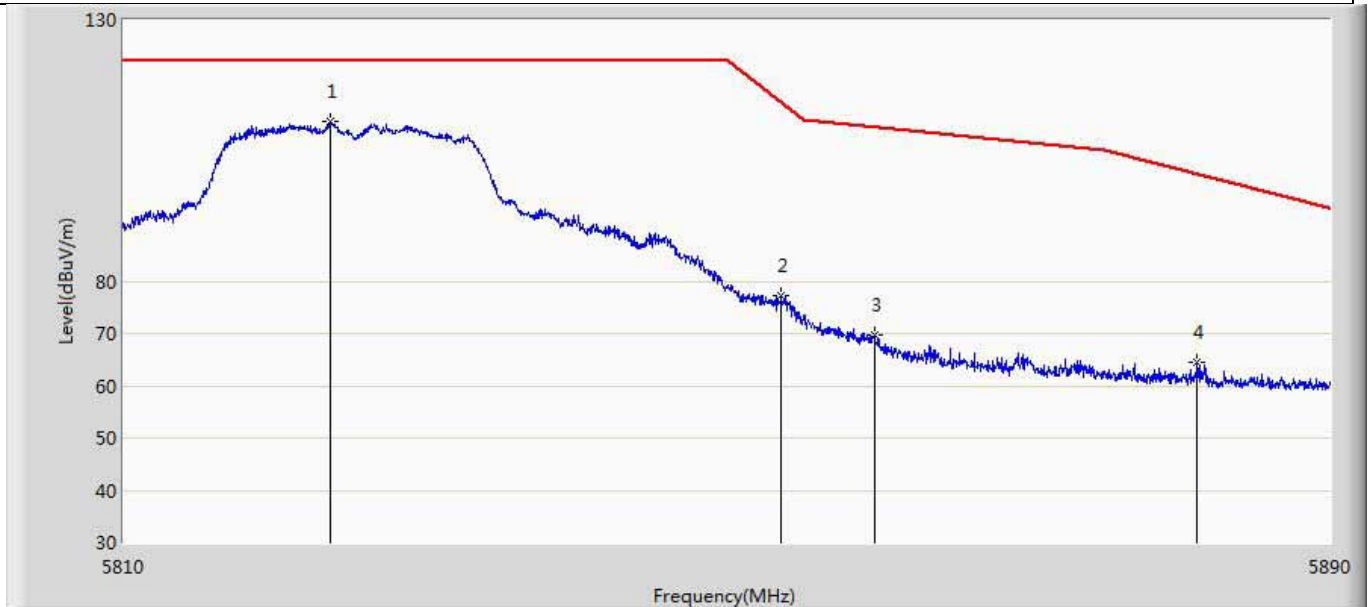
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5694.328	60.314	19.783	-40.705	101.019	40.531	PK
2		5708.370	60.939	20.343	-46.607	107.546	40.596	PK
3		5722.925	61.306	20.783	-56.165	117.470	40.523	PK
4	*	5783.810	111.320	70.622	-10.880	122.200	40.698	PK
5		5852.178	61.503	20.651	-55.730	117.233	40.852	PK
6		5867.962	61.128	20.276	-46.040	107.168	40.852	PK
7		5885.900	60.886	20.057	-36.221	97.107	40.829	PK

Profile: 1962139R	Page No.: 35
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:15
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5825MHz by 11n20	



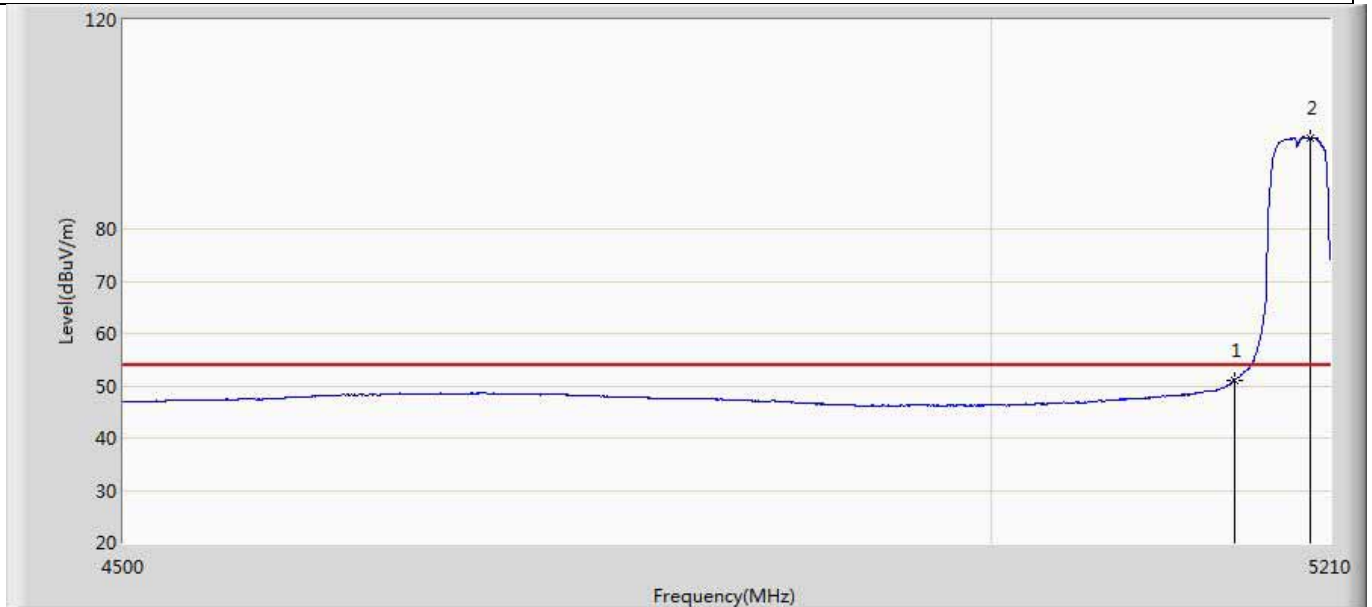
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5823.800	114.145	73.417	-8.055	122.200	40.728	PK
2		5853.520	81.907	41.053	-32.266	114.173	40.854	PK
3		5863.120	71.686	30.822	-36.838	108.524	40.865	PK
4		5881.160	66.395	25.569	-34.230	100.625	40.826	PK

Profile: 1962139R	Page No.: 36
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:17
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5825MHz by 11n20	



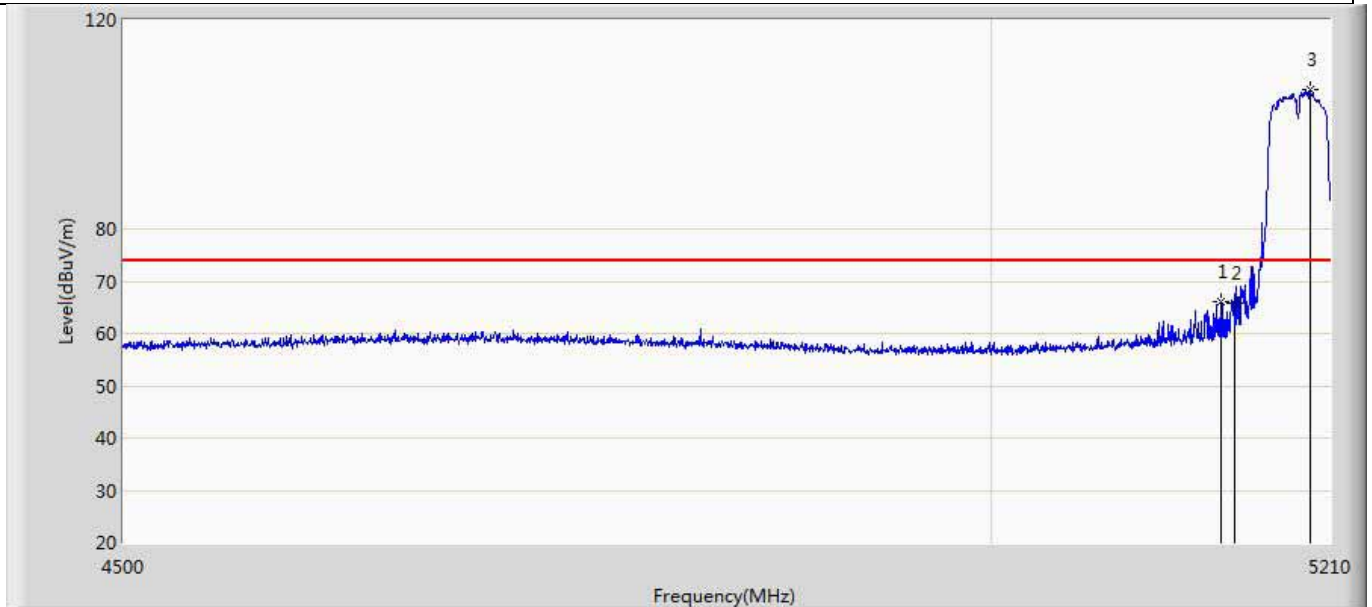
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5823.640	110.636	69.907	-11.564	122.200	40.729	PK
2		5853.480	77.137	36.283	-37.128	114.265	40.854	PK
3		5859.680	69.747	28.884	-39.740	109.488	40.864	PK
4		5881.120	64.424	23.598	-36.231	100.654	40.826	PK

Profile: 1962139R	Page No.: 37
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5190MHz by 11n40	



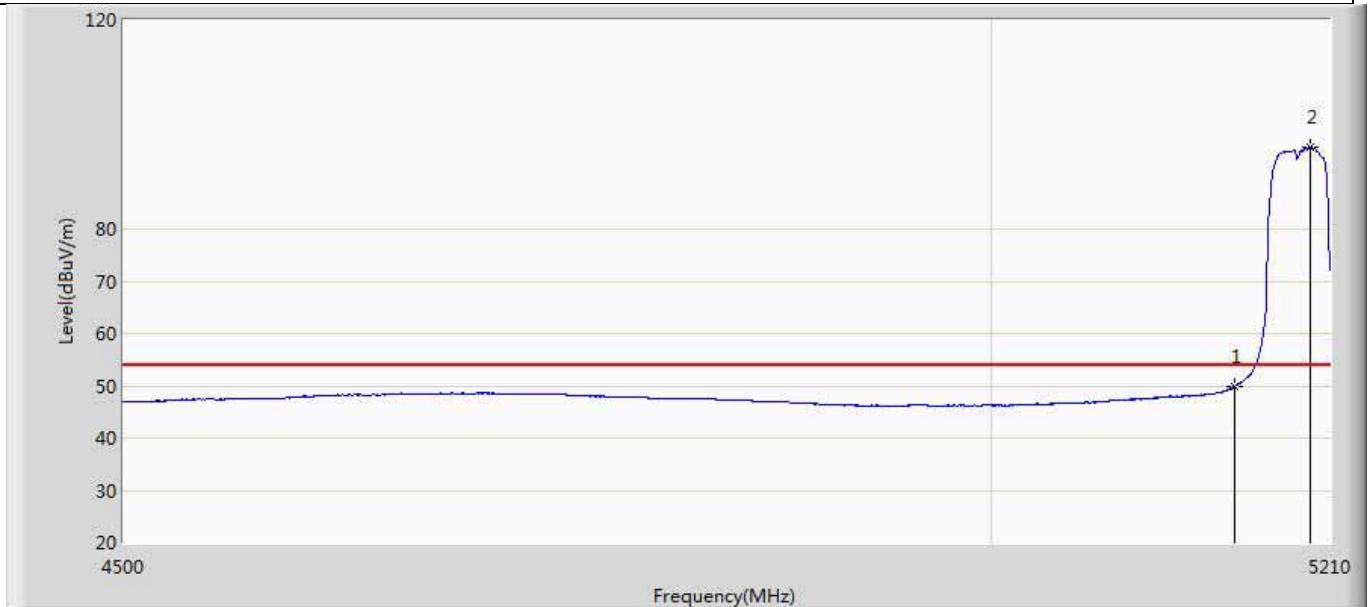
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	51.097	11.563	-2.903	54.000	39.534	AV
2	*	5197.575	97.501	57.806	43.501	54.000	39.696	AV

Profile: 1962139R	Page No.: 38
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5190MHz by 11n40	



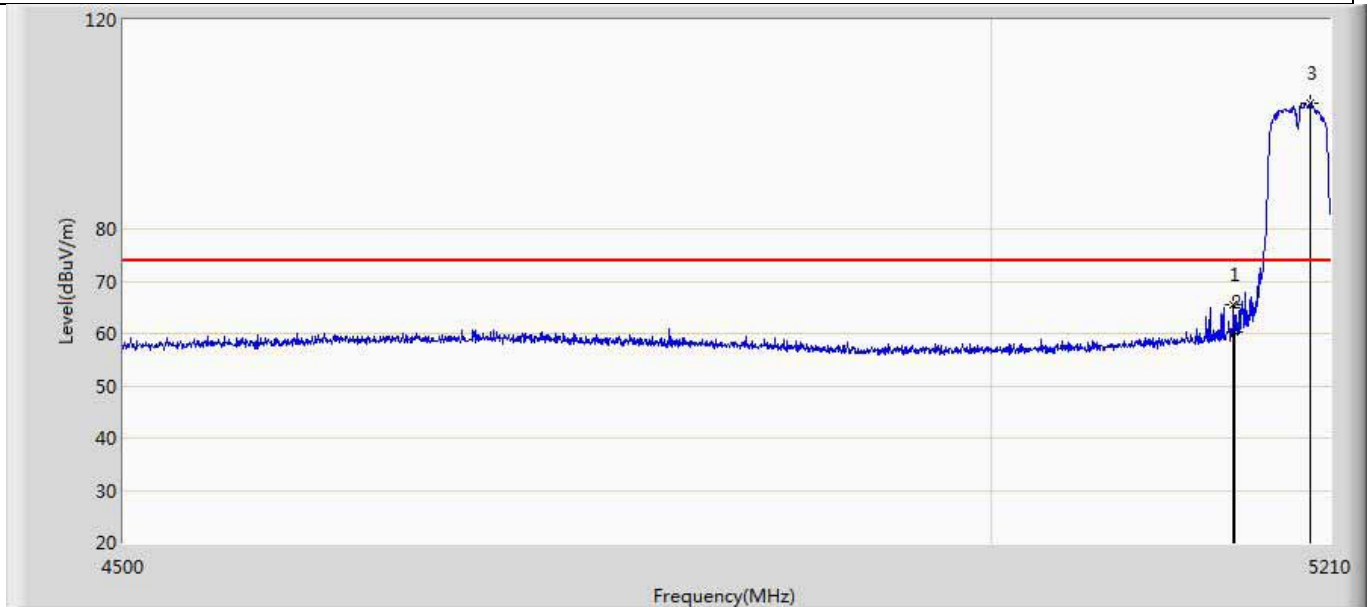
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5141.130	66.094	26.593	-7.906	74.000	39.501	PK
2		5150.000	65.687	26.153	-8.313	74.000	39.534	PK
3	*	5197.220	106.588	66.896	32.588	74.000	39.692	PK

Profile: 1962139R	Page No.: 39
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5190MHz by 11n40	



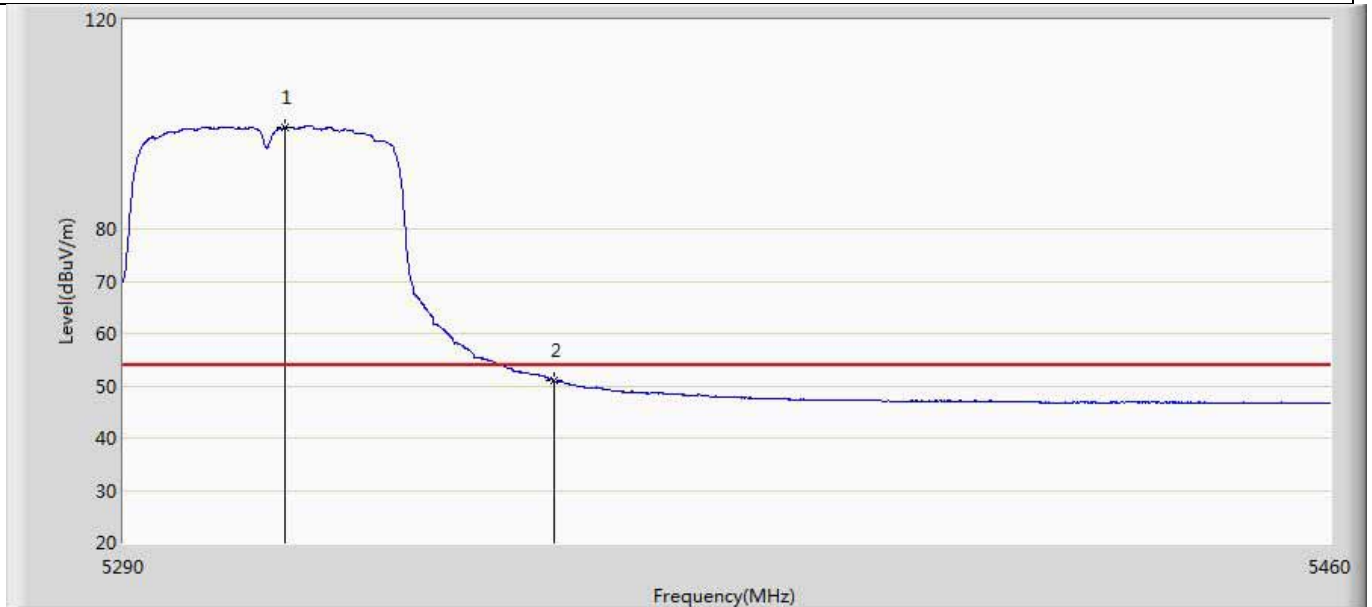
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	49.883	10.349	-4.117	54.000	39.534	AV
2	*	5197.930	95.658	55.959	41.658	54.000	39.699	AV

Profile: 1962139R	Page No.: 40
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5190MHz by 11n40	



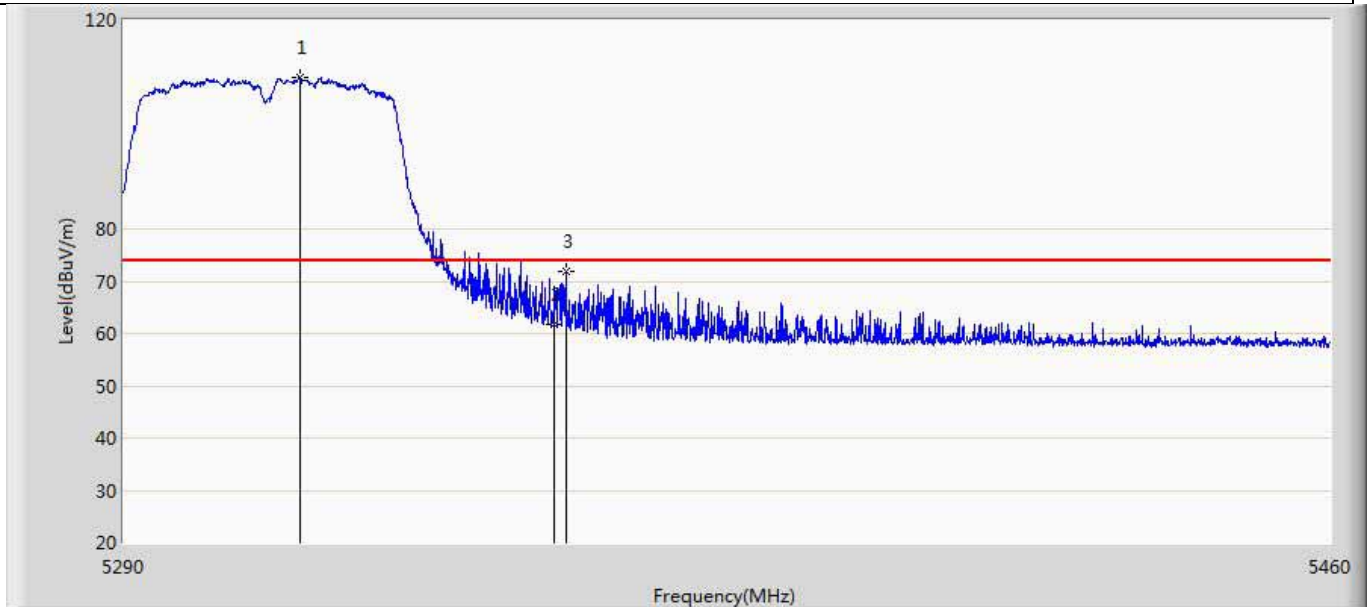
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5149.295	65.524	25.997	-8.476	74.000	39.527	PK
2		5150.000	60.340	20.806	-13.660	74.000	39.534	PK
3	*	5197.220	104.131	64.439	30.131	74.000	39.692	PK

Profile: 1962139R	Page No.: 41
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5310MHz by 11n40	



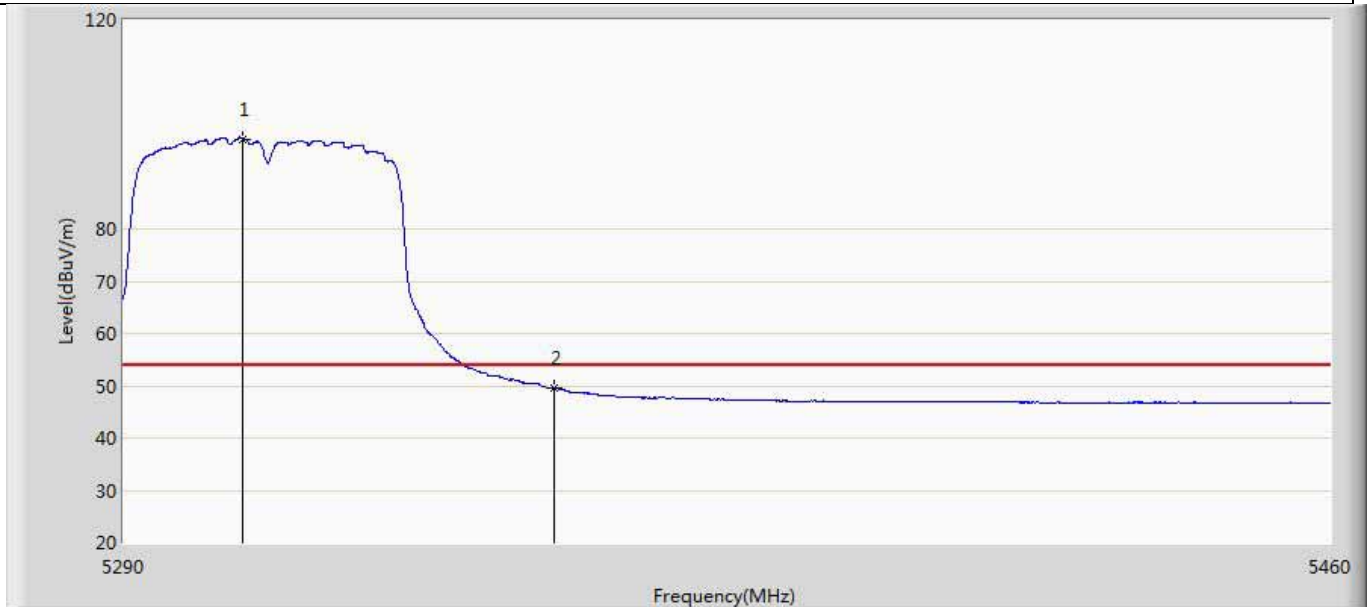
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5312.440	99.364	59.466	45.364	54.000	39.898	AV
2		5350.000	50.935	11.064	-3.065	54.000	39.871	AV

Profile: 1962139R	Page No.: 42
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5310MHz by 11n40	



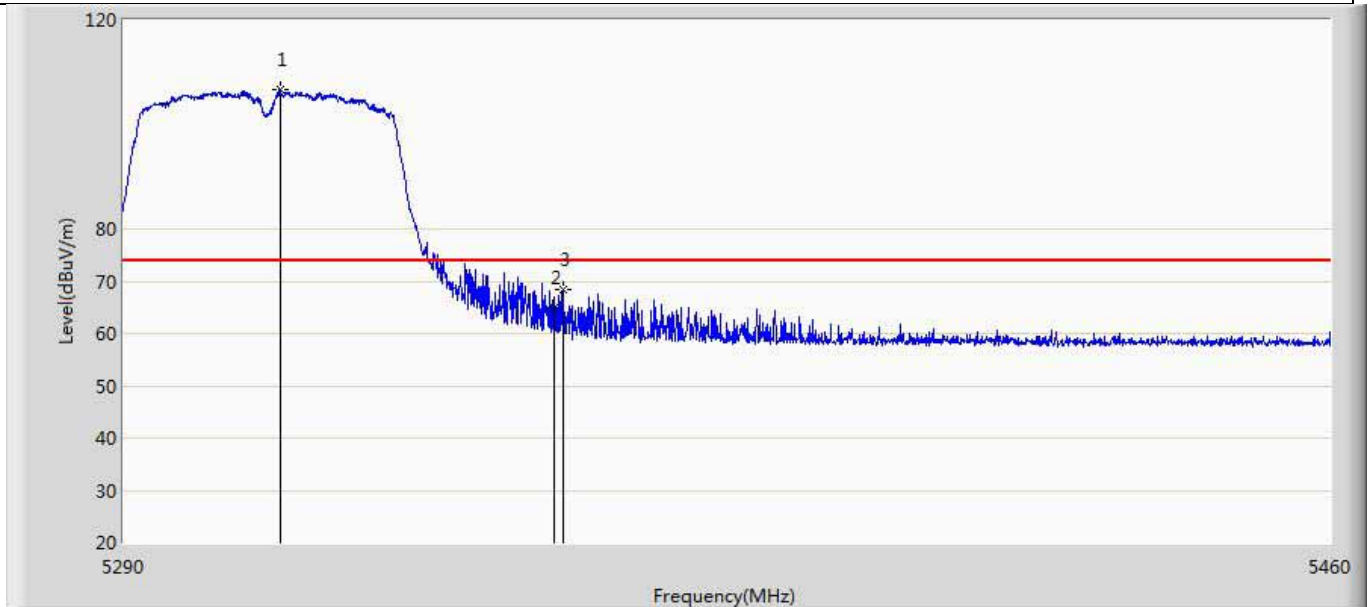
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5314.650	109.058	69.145	35.058	74.000	39.913	PK
2		5350.000	61.633	21.762	-12.367	74.000	39.871	PK
3		5351.795	71.921	32.050	-2.079	74.000	39.871	PK

Profile: 1962139R	Page No.: 43
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5310MHz by 11n40	



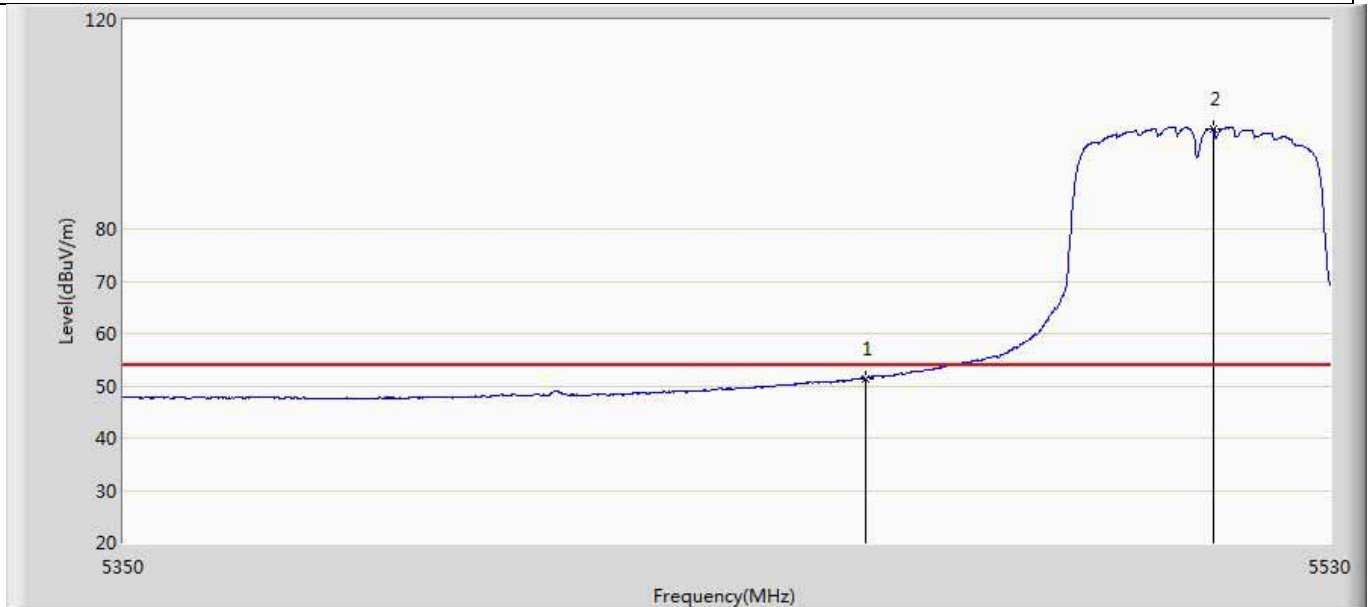
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5306.660	97.242	57.382	43.242	54.000	39.861	AV
2		5350.000	49.606	9.735	-4.394	54.000	39.871	AV

Profile: 1962139R	Page No.: 44
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5310MHz by 11n40	



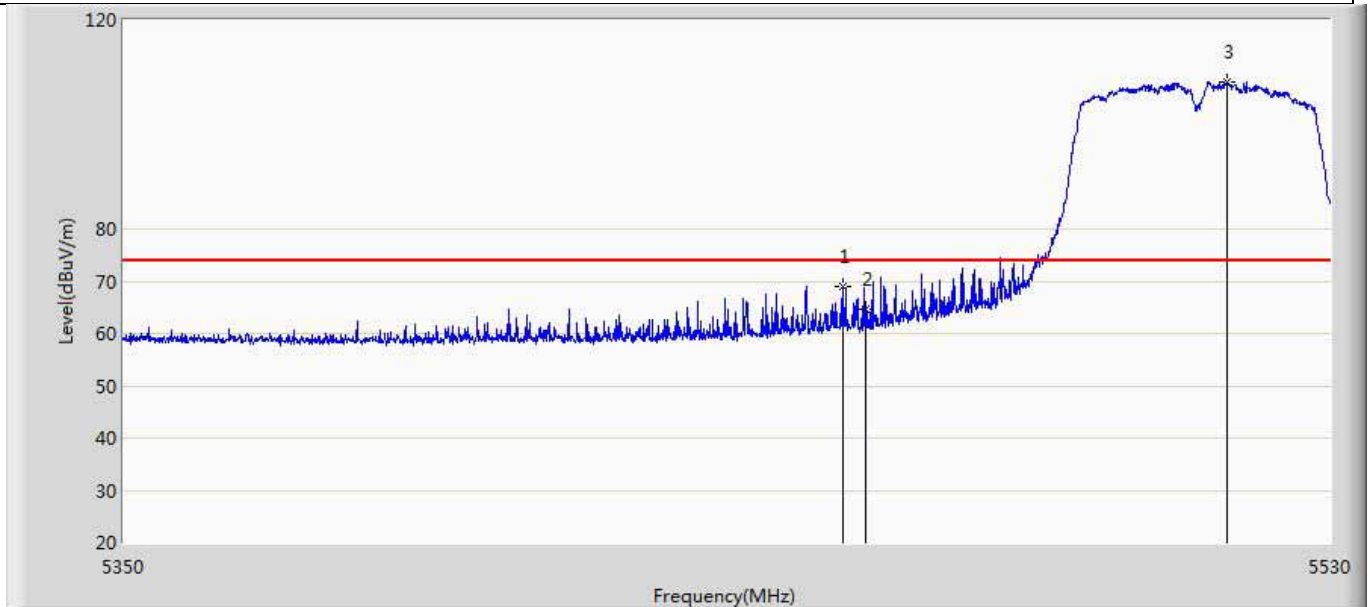
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5311.760	106.733	66.839	32.733	74.000	39.894	PK
2		5350.000	64.877	25.006	-9.123	74.000	39.871	PK
3		5351.455	68.293	28.422	-5.707	74.000	39.871	PK

Profile: 1962139R	Page No.: 45
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5510MHz by 11n40	



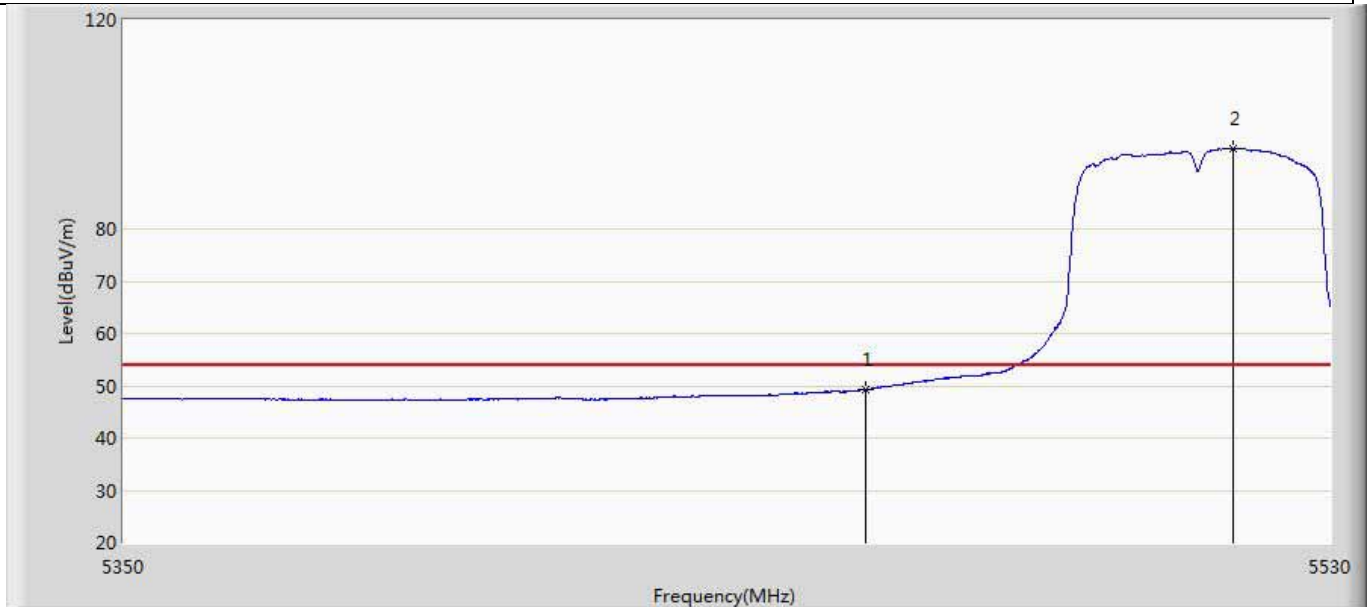
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	51.361	11.327	-2.639	54.000	40.034	AV
2	*	5512.450	99.186	59.067	45.186	54.000	40.120	AV

Profile: 1962139R	Page No.: 46
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5510MHz by 11n40	



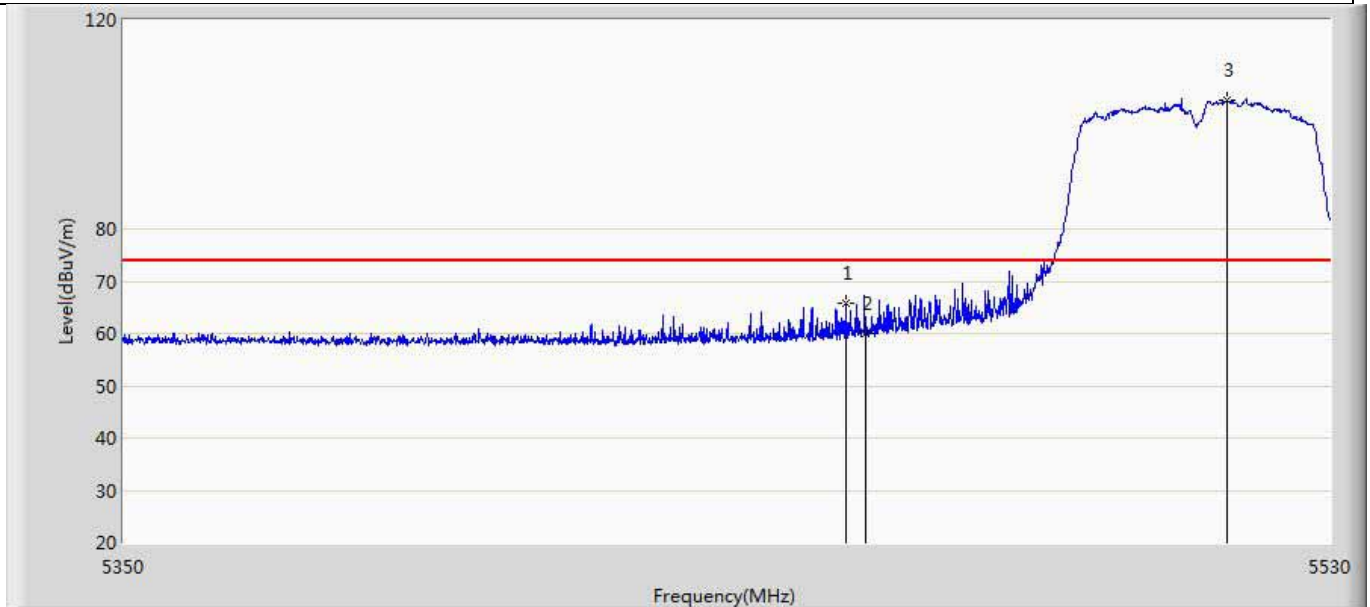
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5456.650	68.972	28.935	-5.028	74.000	40.038	PK
2		5460.000	64.575	24.541	-9.425	74.000	40.034	PK
3	*	5514.520	108.109	67.987	34.109	74.000	40.121	PK

Profile: 1962139R	Page No.: 47
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5510MHz by 11n40	



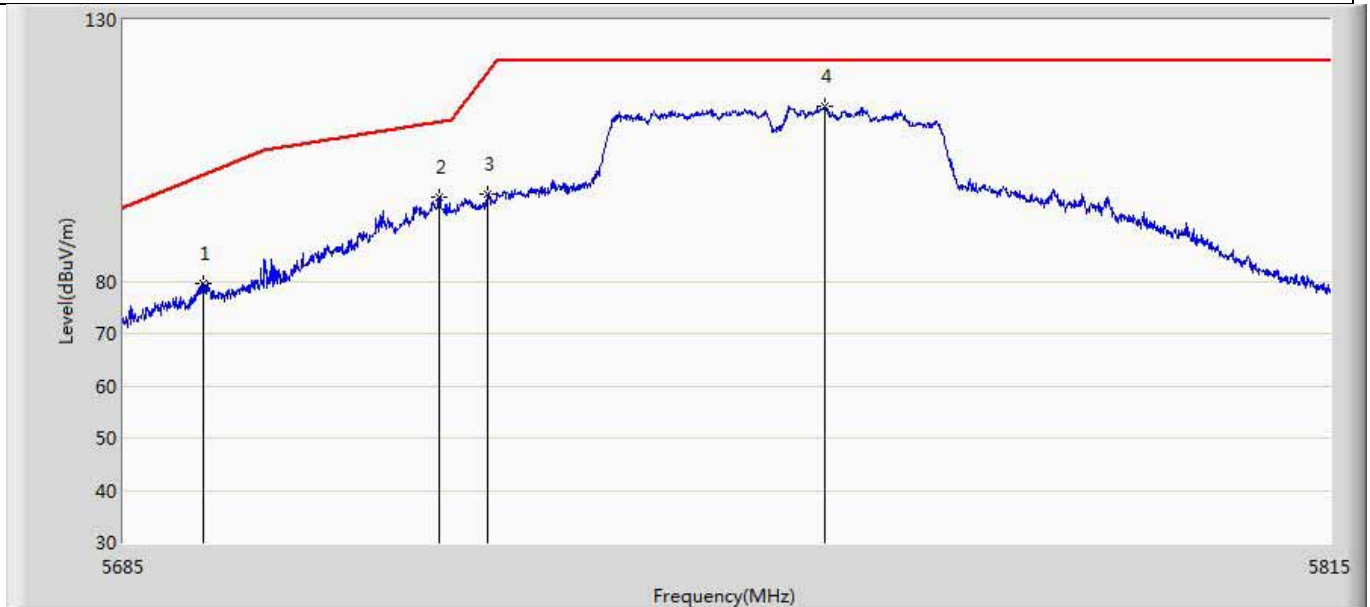
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	49.268	9.234	-4.732	54.000	40.034	AV
2	*	5515.330	95.397	55.274	41.397	54.000	40.123	AV

Profile: 1962139R	Page No.: 48
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5510MHz by 11n40	



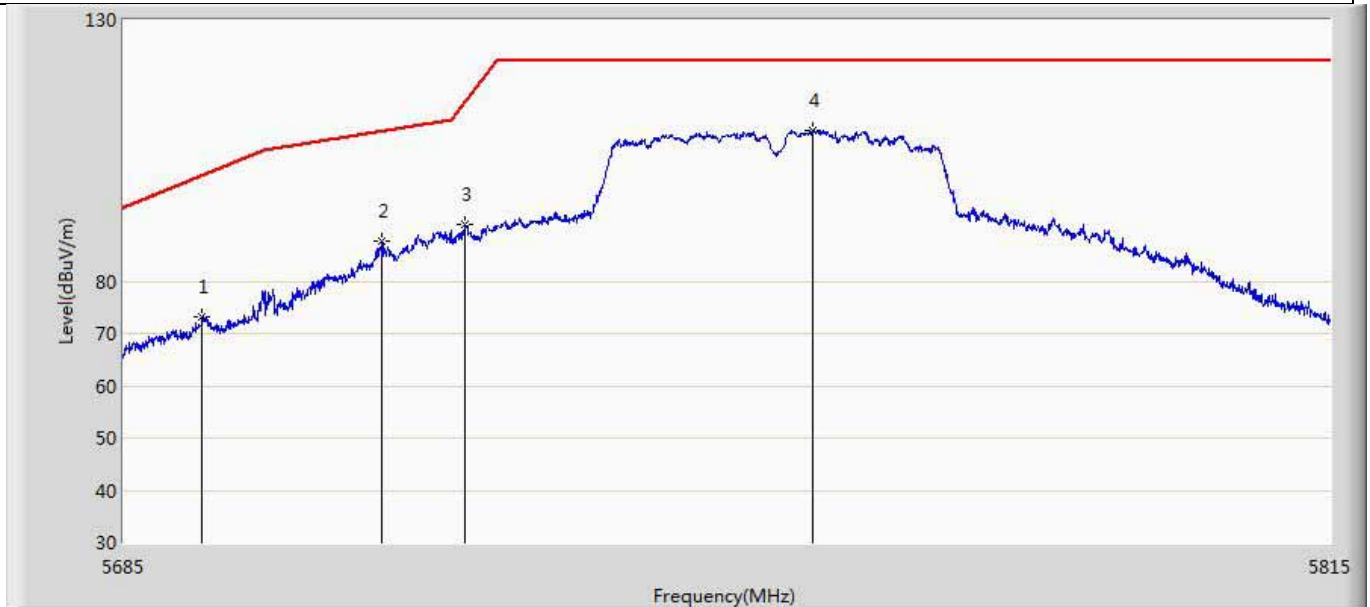
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5457.010	65.819	25.782	-8.181	74.000	40.037	PK
2		5460.000	59.981	19.947	-14.019	74.000	40.034	PK
3	*	5514.430	104.758	64.636	30.758	74.000	40.121	PK

Profile: 1962139R	Page No.: 49
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 06:57
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5755MHz by 11n40	



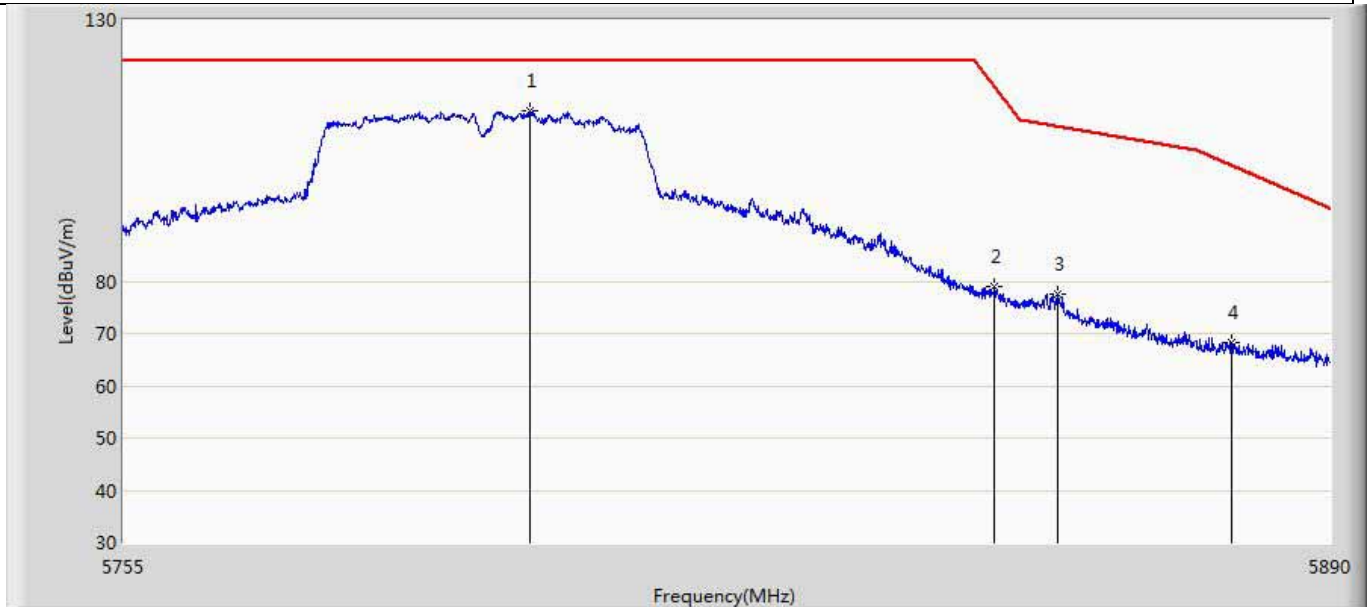
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5693.515	79.596	39.068	-20.824	100.419	40.527	PK
2		5718.800	96.100	55.555	-14.364	110.465	40.545	PK
3		5723.935	96.629	56.112	-23.144	119.773	40.517	PK
4	*	5760.270	113.424	72.803	-8.776	122.200	40.621	PK

Profile: 1962139R	Page No.: 50
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 07:00
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5755MHz by 11n40	



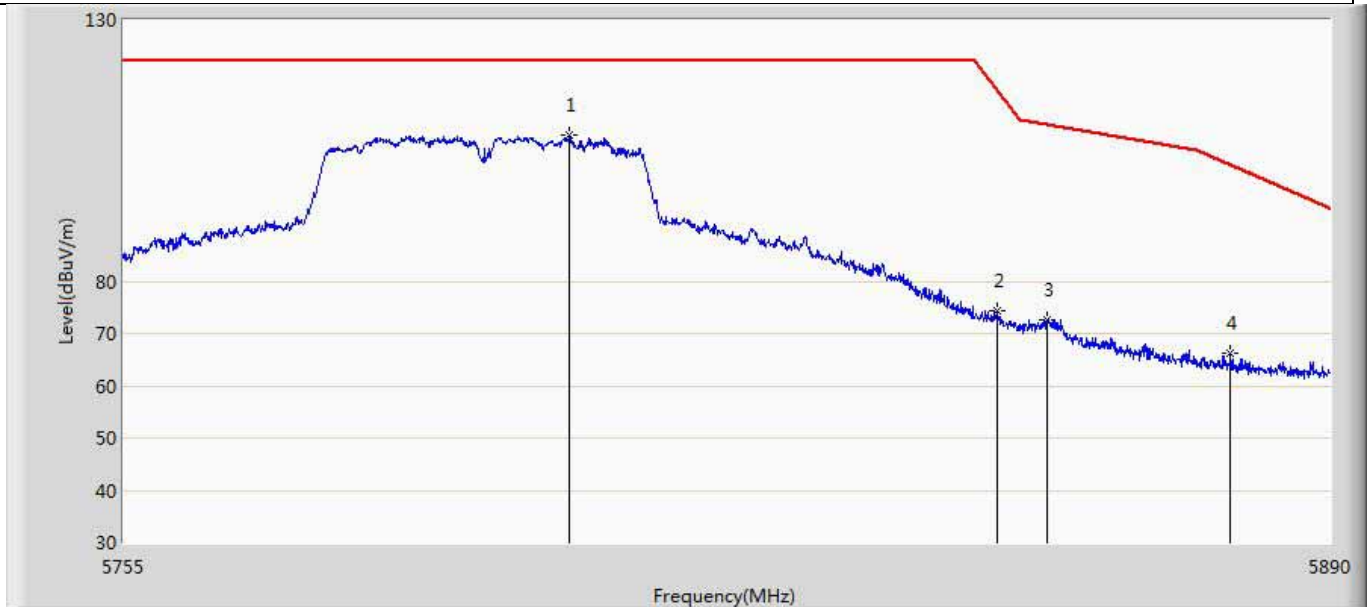
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5693.450	73.261	32.734	-27.110	100.372	40.527	PK
2		5712.690	87.588	47.009	-21.168	108.755	40.579	PK
3		5721.595	90.738	50.208	-23.700	114.438	40.530	PK
4	*	5758.905	108.935	68.317	-13.265	122.200	40.617	PK

Profile: 1962139R	Page No.: 51
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 07:02
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5795MHz by 11n40	



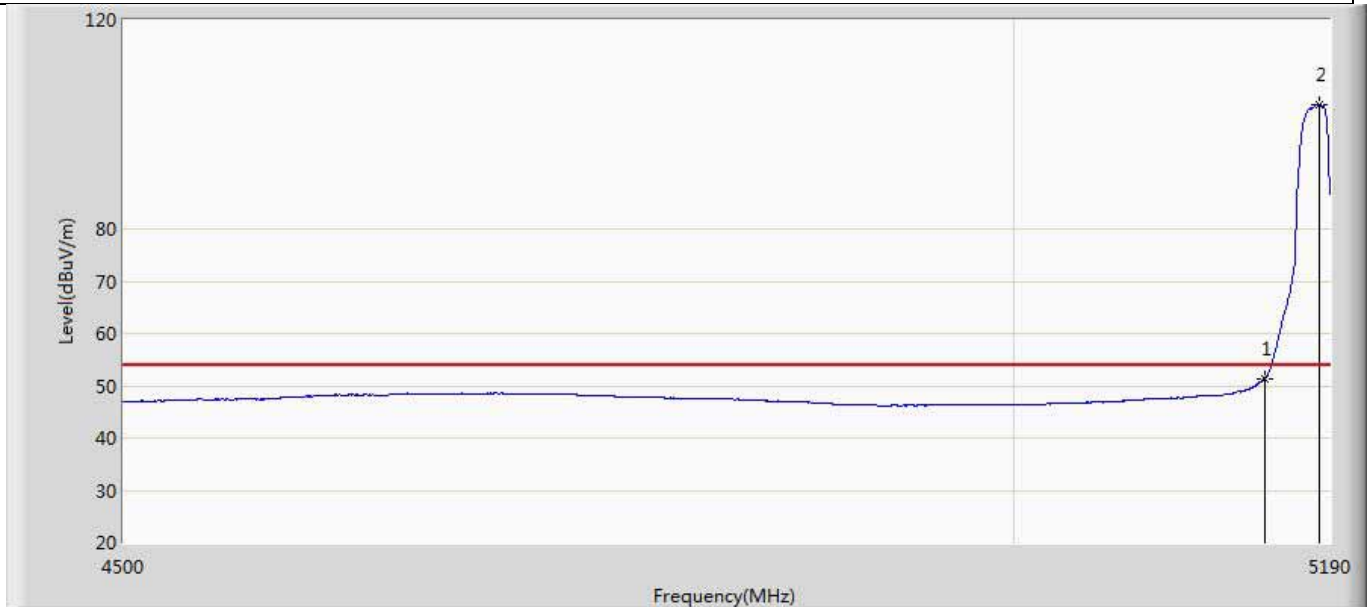
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5800.158	112.526	71.757	-9.674	122.200	40.769	PK
2		5852.132	78.888	38.036	-38.450	117.338	40.852	PK
3		5859.355	77.566	36.703	-32.013	109.579	40.863	PK
4		5878.930	68.359	27.535	-33.921	102.280	40.825	PK

Profile: 1962139R	Page No.: 52
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 07:04
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5795MHz by 11n40	



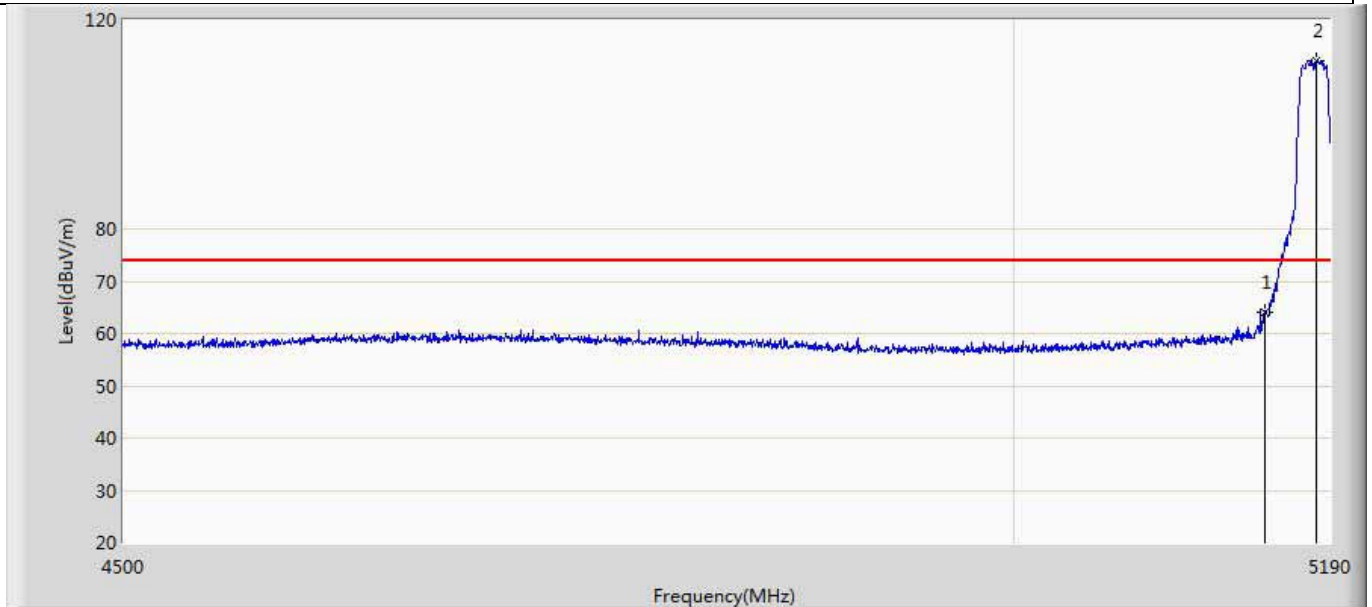
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5804.545	107.862	67.091	-14.338	122.200	40.771	PK
2		5852.538	74.258	33.405	-42.155	116.412	40.853	PK
3		5858.005	72.721	31.860	-37.236	109.957	40.861	PK
4		5878.728	66.374	25.549	-36.056	102.430	40.825	PK

Profile: 1962139R	Page No.: 53
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 07:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5180MHz by 11ac20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	51.355	11.821	-2.645	54.000	39.534	AV
2	*	5183.790	103.888	64.318	49.888	54.000	39.570	AV

Profile: 1962139R	Page No.: 54
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 19:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5180MHz by 11ac20	



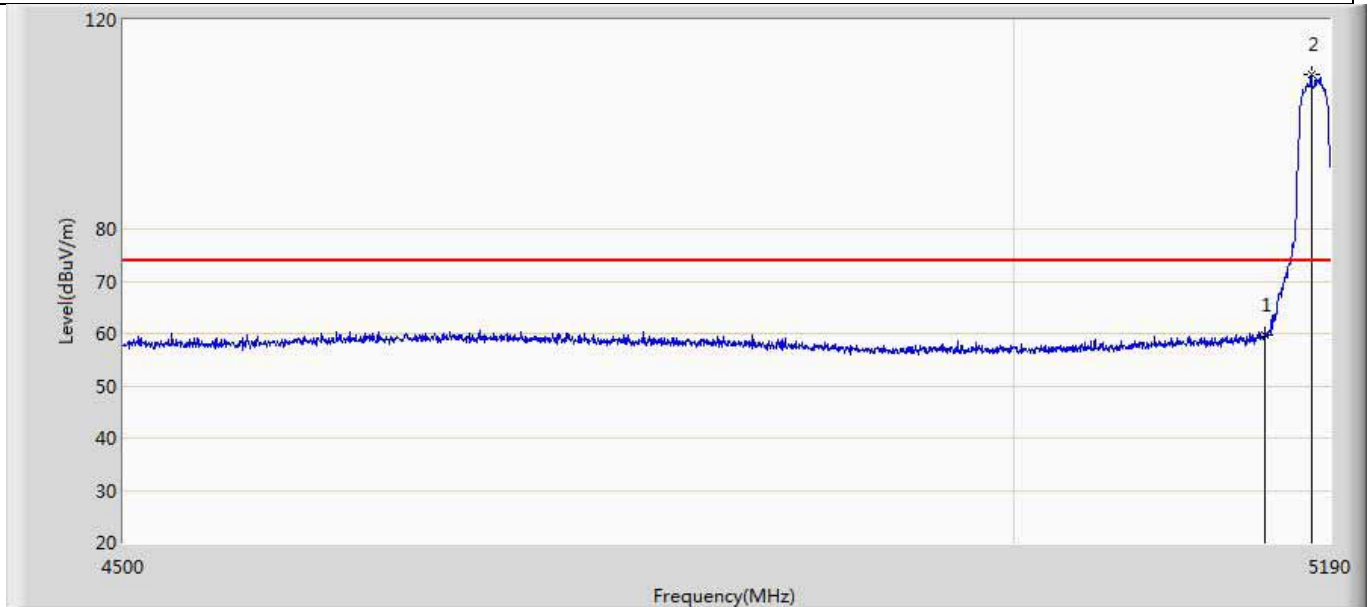
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	63.950	24.416	-10.050	74.000	39.534	PK
2	*	5181.375	112.175	72.616	38.175	74.000	39.558	PK

Profile: 1962139R	Page No.: 55
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 19:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5180MHz by 11ac20	



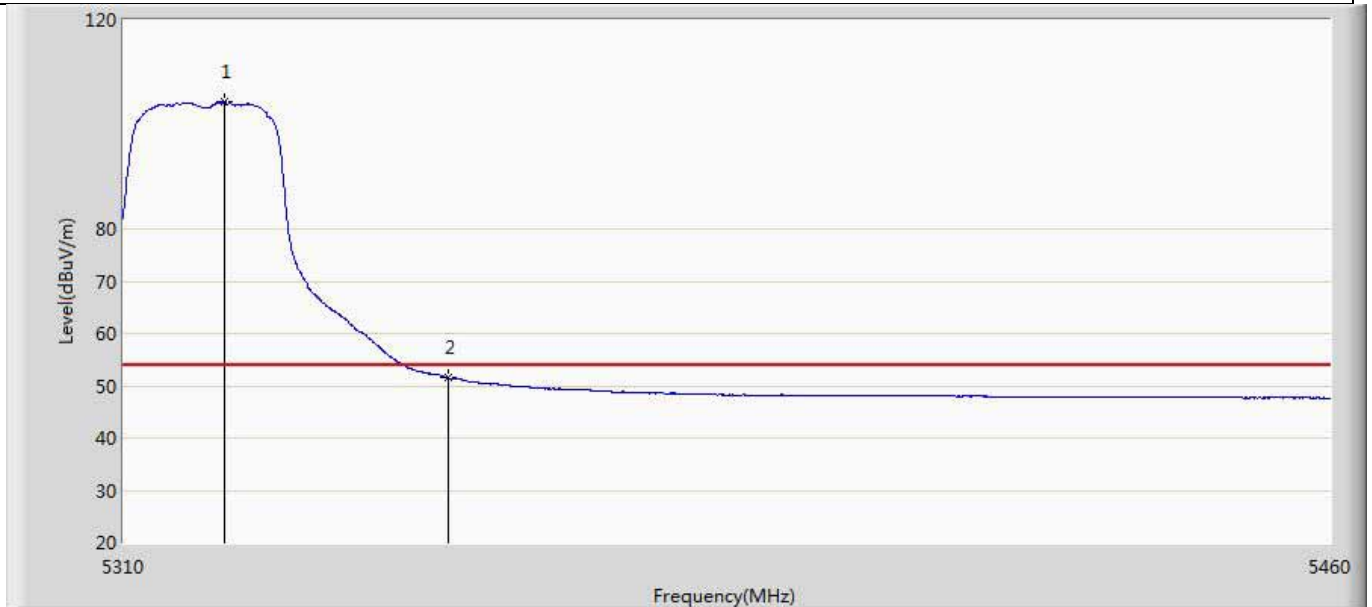
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	49.351	9.817	-4.649	54.000	39.534	AV
2	*	5183.790	99.840	60.270	45.840	54.000	39.570	AV

Profile: 1962139R	Page No.: 56
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 19:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5180MHz by 11ac20	



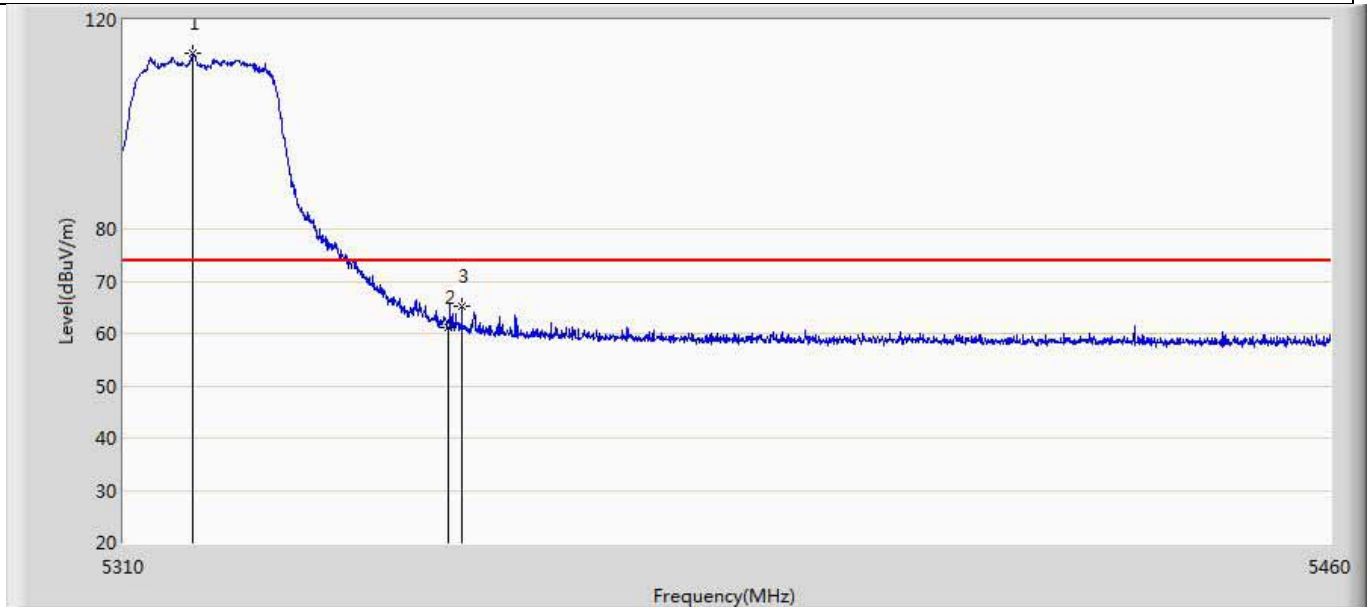
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	59.677	20.143	-14.323	74.000	39.534	PK
2	*	5178.615	109.544	69.964	35.544	74.000	39.580	PK

Profile: 1962139R	Page No.: 57
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 19:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5320MHz by 11ac20	



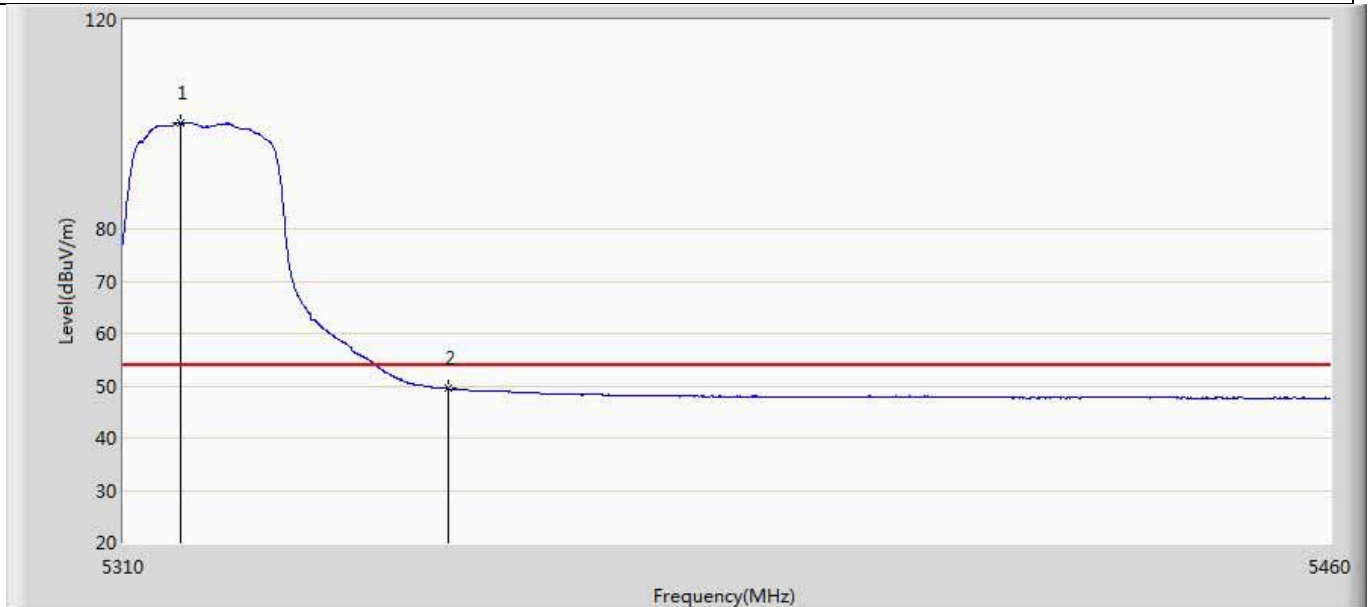
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5322.450	104.352	64.435	50.352	54.000	39.917	AV
2		5350.000	51.621	11.750	-2.379	54.000	39.871	AV

Profile: 1962139R	Page No.: 58
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 19:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5320MHz by 11ac20	



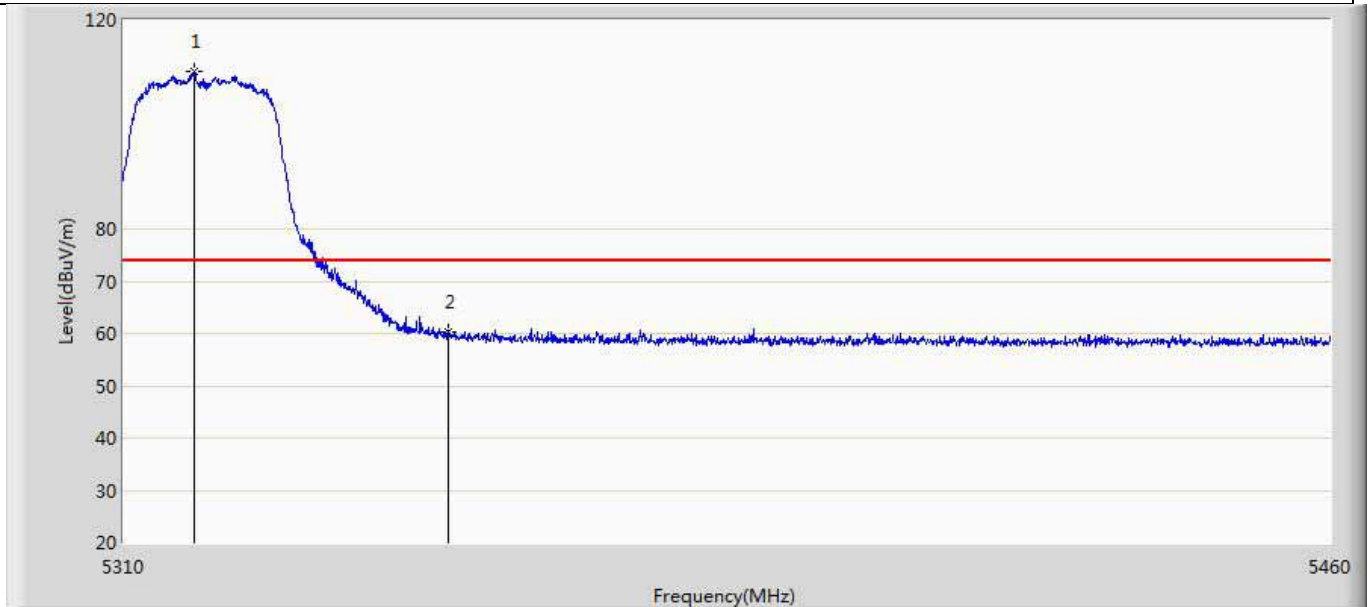
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5318.625	113.529	73.597	39.529	74.000	39.933	PK
2		5350.000	61.067	21.196	-12.933	74.000	39.871	PK
3		5351.700	65.355	25.484	-8.645	74.000	39.871	PK

Profile: 1962139R	Page No.: 59
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 19:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5320MHz by 11ac20	



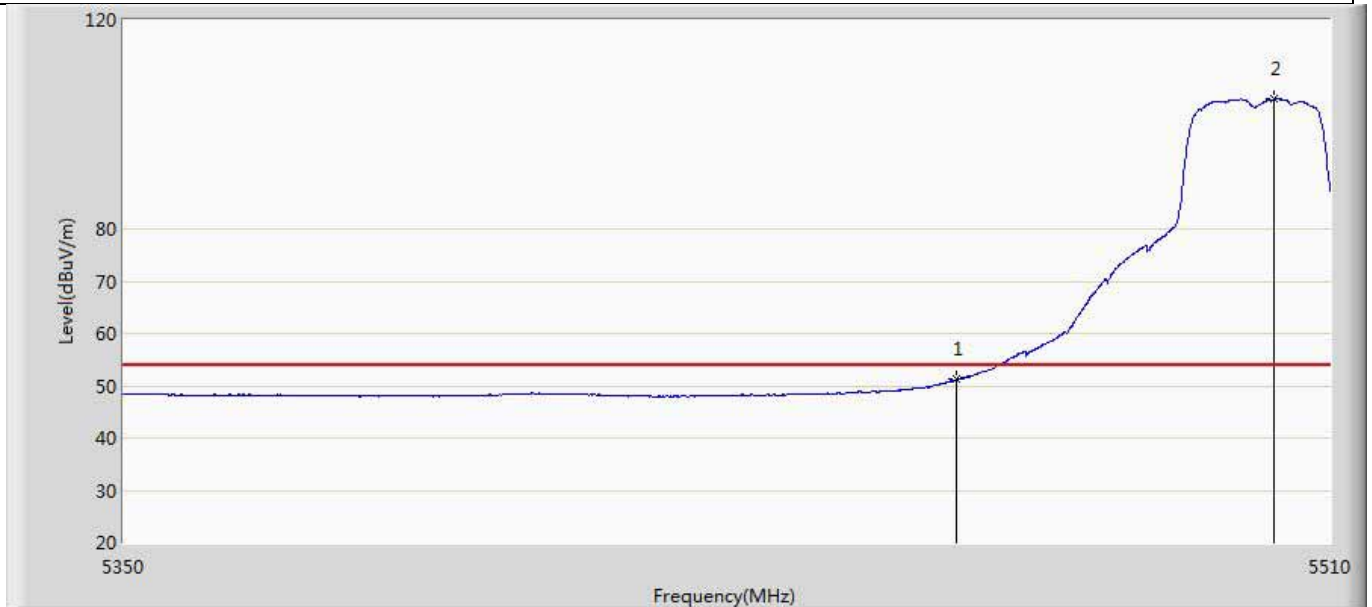
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5317.050	100.289	60.360	46.289	54.000	39.929	AV
2		5350.000	49.433	9.562	-4.567	54.000	39.871	AV

Profile: 1962139R	Page No.: 60
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 19:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5320MHz by 11ac20	



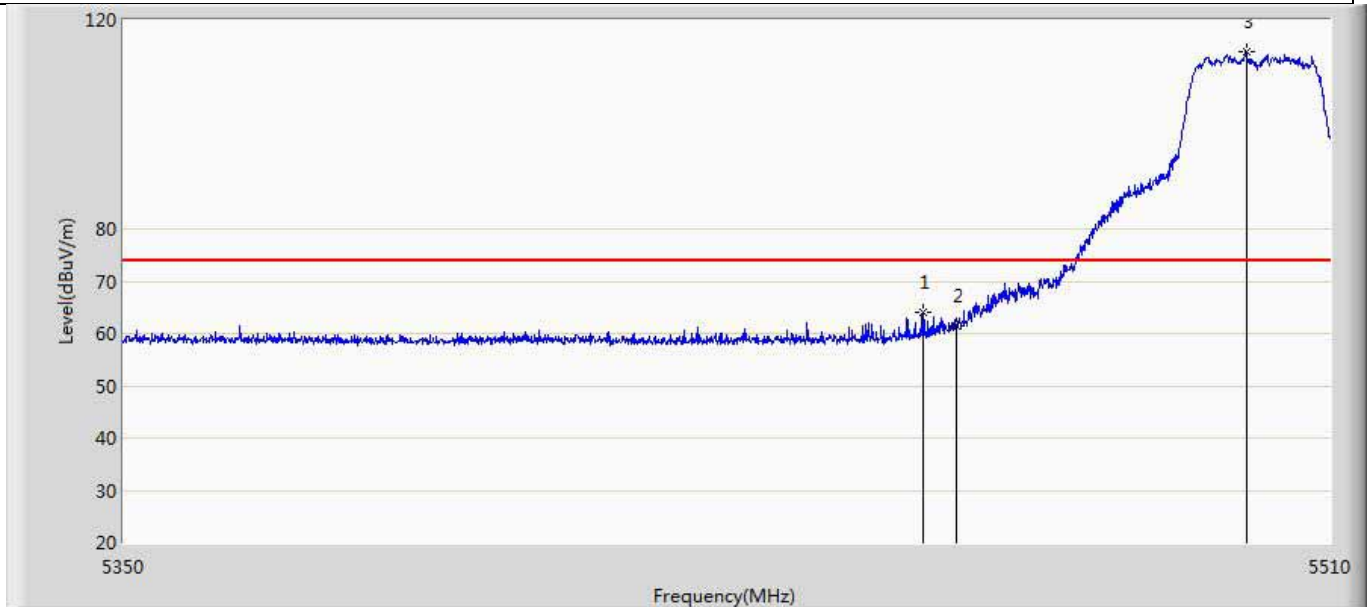
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5318.700	110.185	70.253	36.185	74.000	39.932	PK
2		5350.000	60.421	20.550	-13.579	74.000	39.871	PK

Profile: 1962139R	Page No.: 61
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 19:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5500MHz by 11ac20	



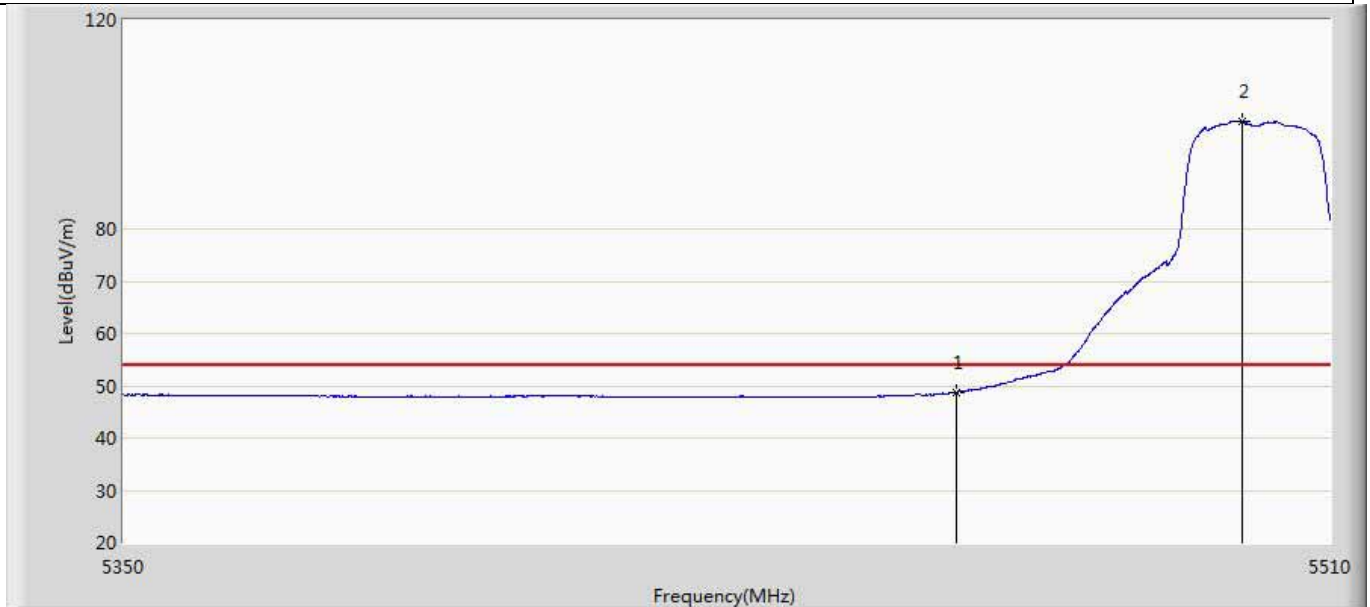
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	51.195	11.161	-2.805	54.000	40.034	AV
2	*	5502.560	104.800	64.682	50.800	54.000	40.118	AV

Profile: 1962139R	Page No.: 62
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 19:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5500MHz by 11ac20	



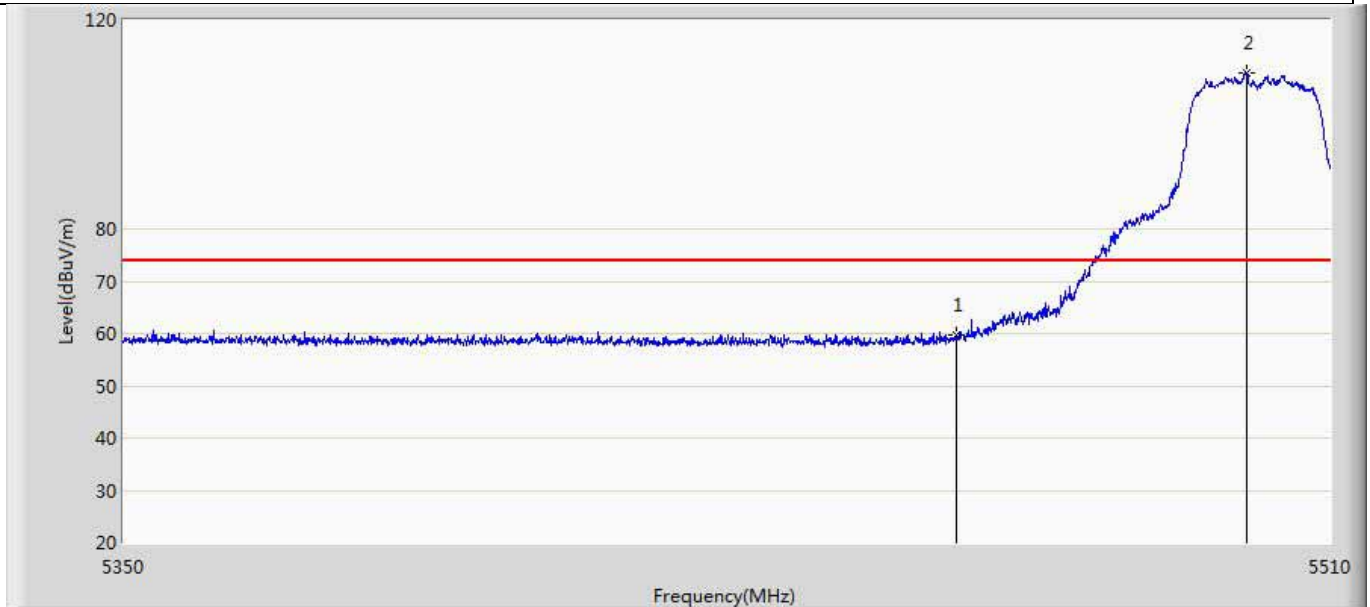
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5455.600	64.033	23.995	-9.967	74.000	40.039	PK
2		5460.000	61.317	21.283	-12.683	74.000	40.034	PK
3	*	5498.800	113.989	73.860	39.989	74.000	40.129	PK

Profile: 1962139R	Page No.: 63
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 19:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5500MHz by 11ac20	



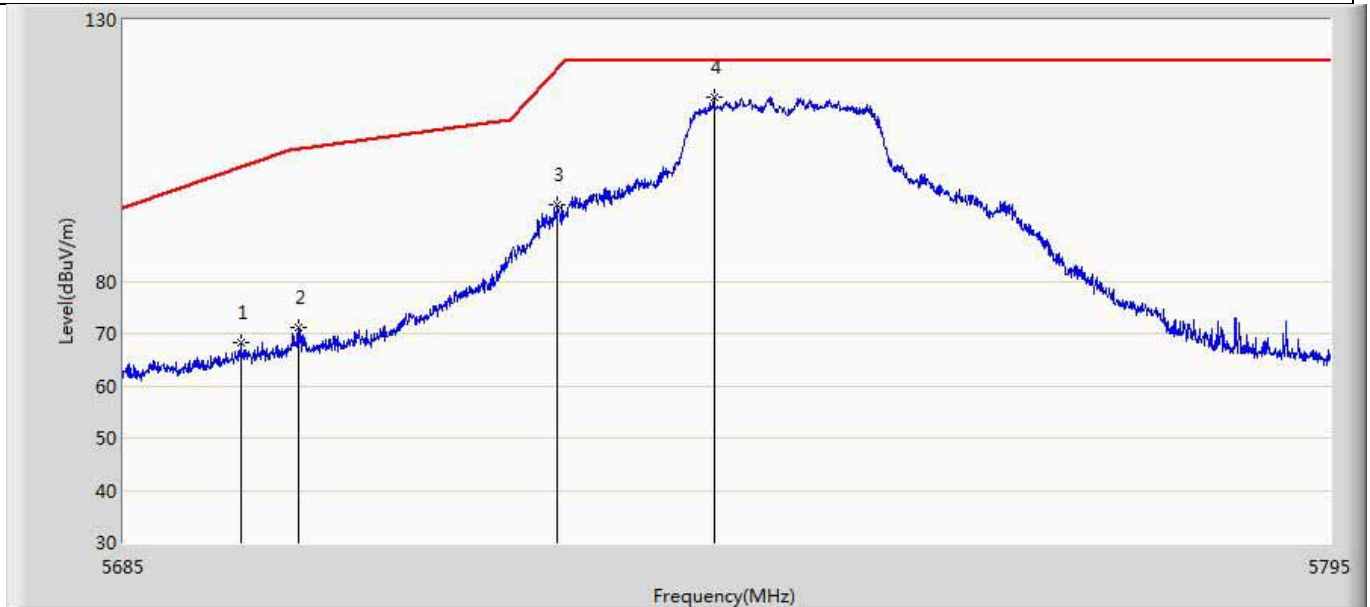
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	48.723	8.689	-5.277	54.000	40.034	AV
2	*	5498.240	100.620	60.490	46.620	54.000	40.130	AV

Profile: 1962139R	Page No.: 64
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 19:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5500MHz by 11ac20	



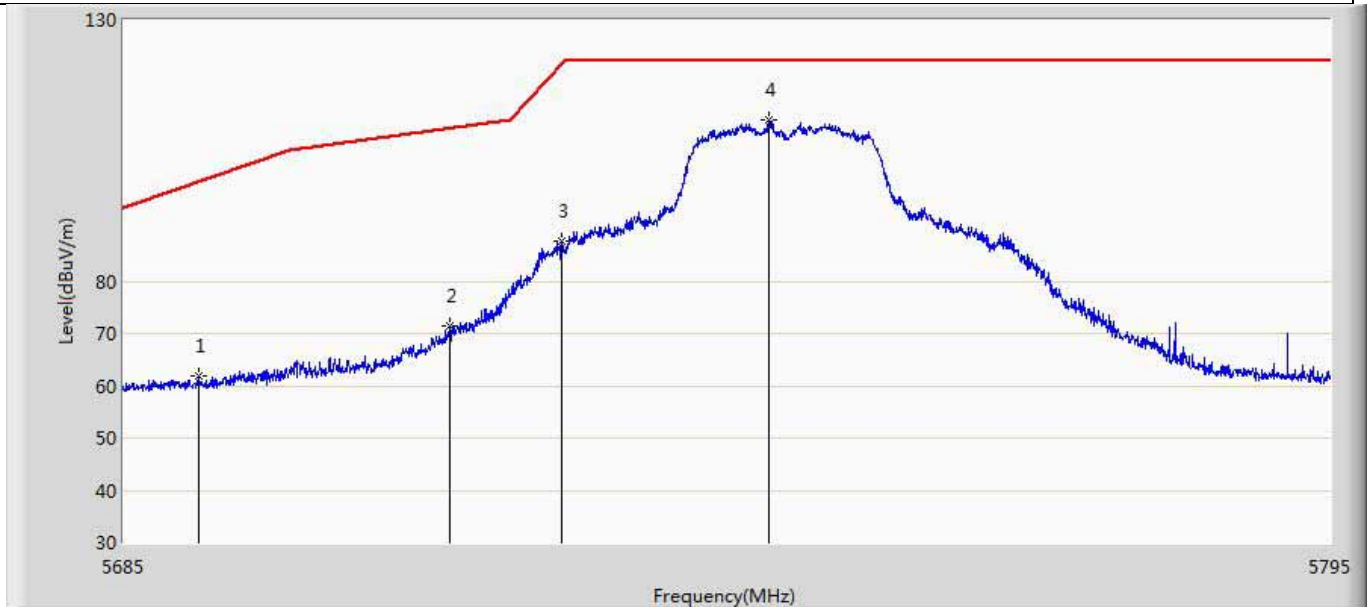
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	59.829	19.795	-14.171	74.000	40.034	PK
2	*	5498.720	109.935	69.806	35.935	74.000	40.129	PK

Profile: 1962139R	Page No.: 65
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:00
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5745MHz by 11ac20	



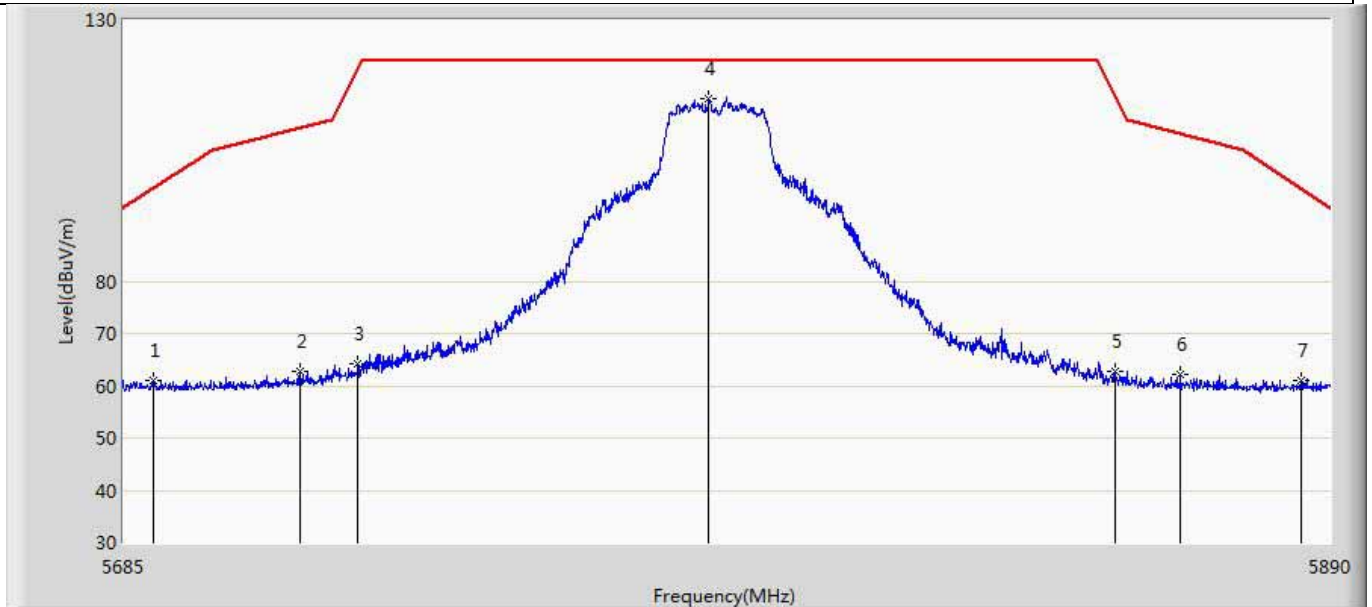
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5695.615	68.120	27.583	-33.848	101.968	40.537	PK
2		5700.840	71.300	30.739	-34.135	105.436	40.561	PK
3		5724.380	94.703	54.188	-26.084	120.787	40.515	PK
4	*	5738.570	115.185	74.623	-7.015	122.200	40.562	PK

Profile: 1962139R	Page No.: 66
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:03
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5745MHz by 11ac20	



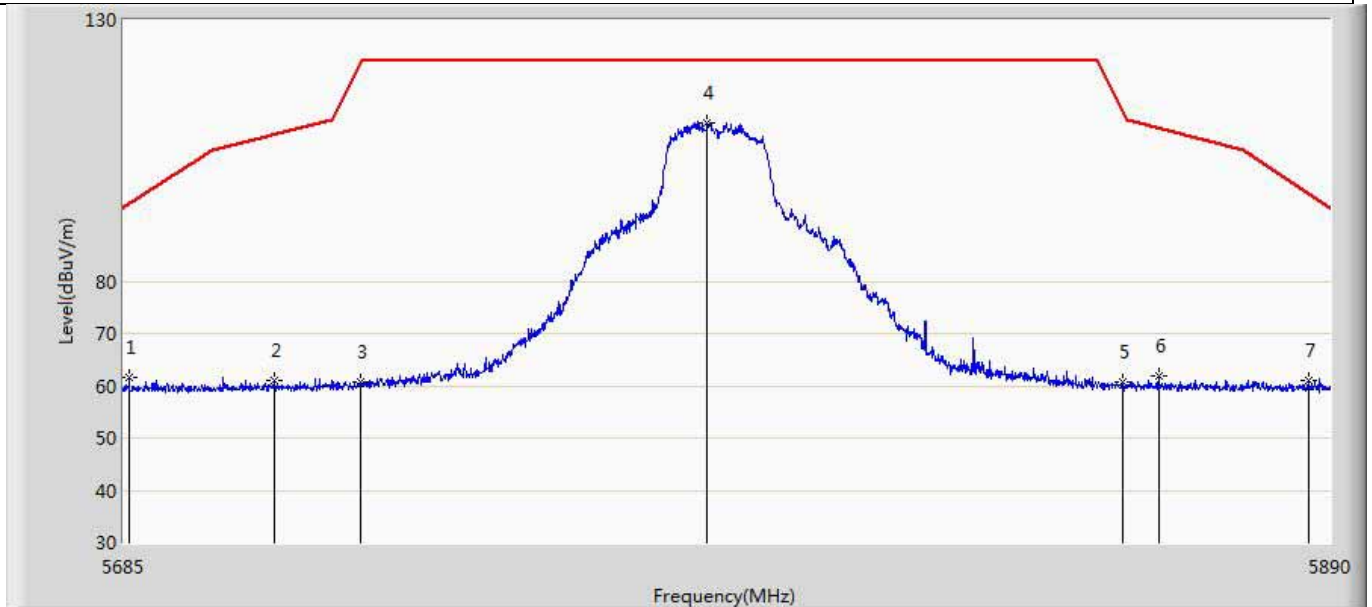
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5691.765	61.992	21.472	-37.136	99.128	40.521	PK
2		5714.535	71.504	30.935	-37.768	109.272	40.568	PK
3		5724.710	87.625	47.112	-33.914	121.539	40.513	PK
4	*	5743.630	110.727	70.144	-11.473	122.200	40.584	PK

Profile: 1962139R	Page No.: 67
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:05
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5785MHz by 11ac20	



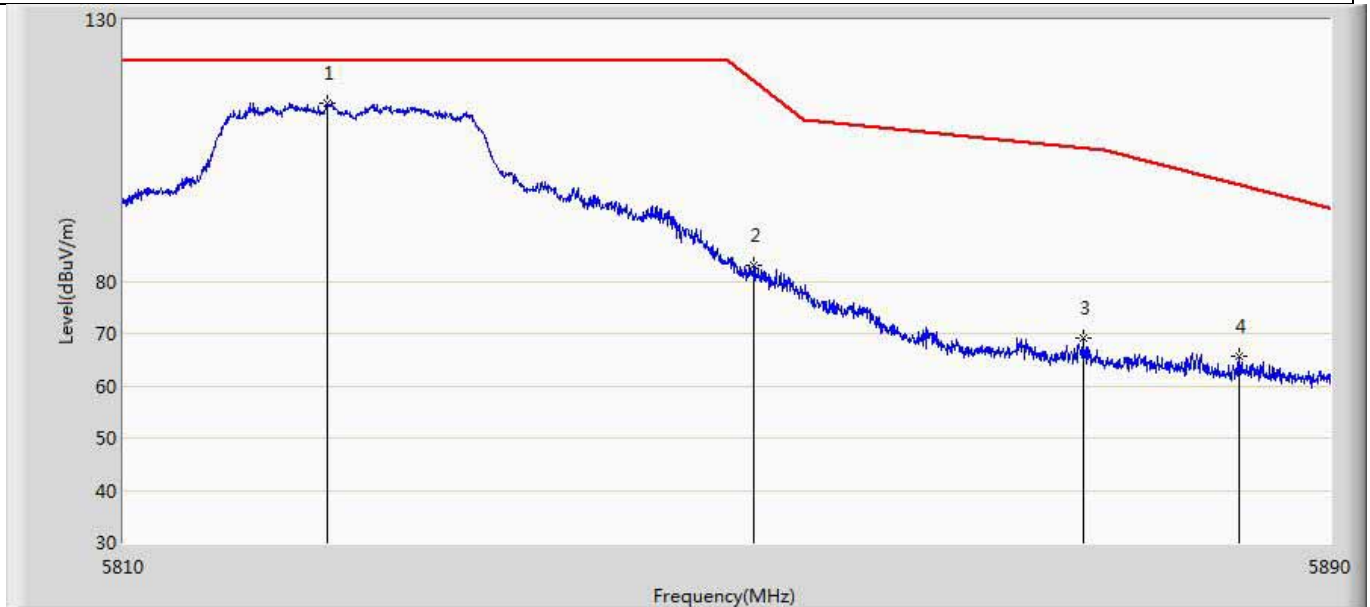
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5690.125	61.159	20.641	-36.759	97.918	40.517	PK
2		5714.725	62.655	22.087	-46.670	109.325	40.568	PK
3		5724.360	64.262	23.747	-56.480	120.741	40.515	PK
4	*	5783.605	114.946	74.249	-7.254	122.200	40.696	PK
5		5852.998	62.629	21.776	-52.734	115.363	40.853	PK
6		5864.170	62.307	21.445	-45.923	108.230	40.861	PK
7		5885.080	61.006	20.178	-36.709	97.716	40.828	PK

Profile: 1962139R	Page No.: 68
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:08
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5785MHz by 11ac20	



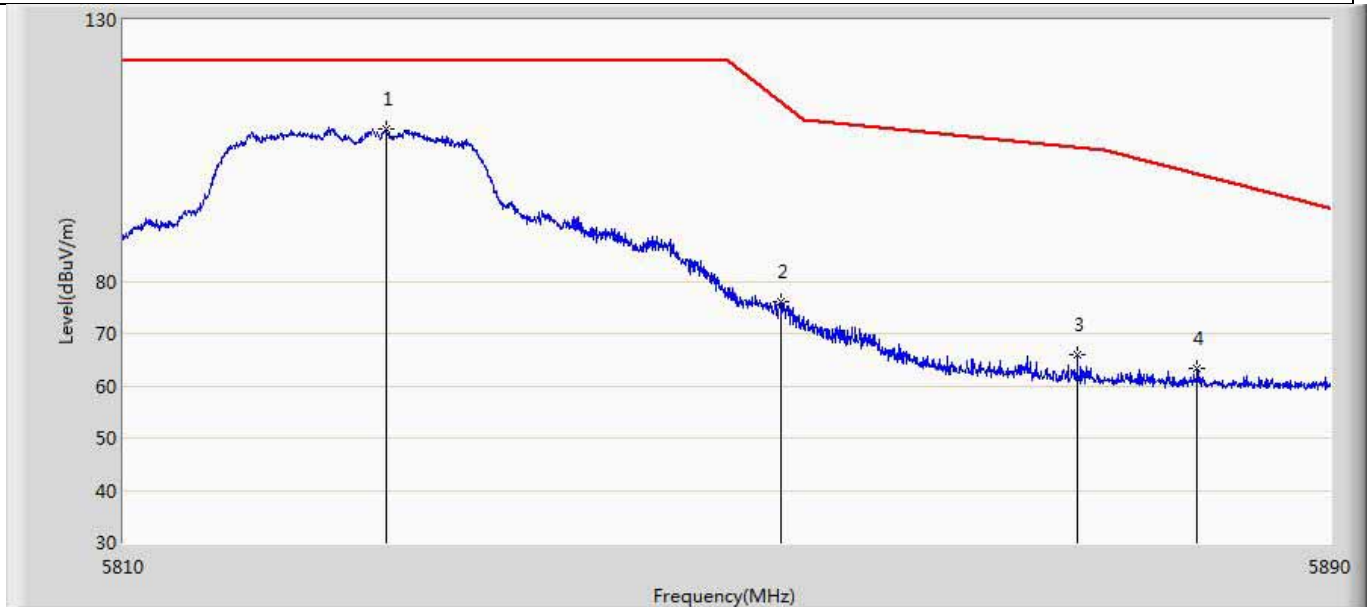
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5686.025	61.537	21.025	-33.354	94.891	40.512	PK
2		5710.317	61.098	20.506	-46.993	108.091	40.592	PK
3		5724.667	60.602	20.089	-60.839	121.441	40.513	PK
4	*	5783.297	110.348	69.653	-11.852	122.200	40.695	PK
5		5854.228	60.701	19.846	-51.858	112.560	40.855	PK
6		5860.480	62.007	21.142	-47.257	109.264	40.865	PK
7		5886.413	60.944	20.115	-35.782	96.727	40.829	PK

Profile: 1962139R	Page No.: 69
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:11
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5825MHz by 11ac20	



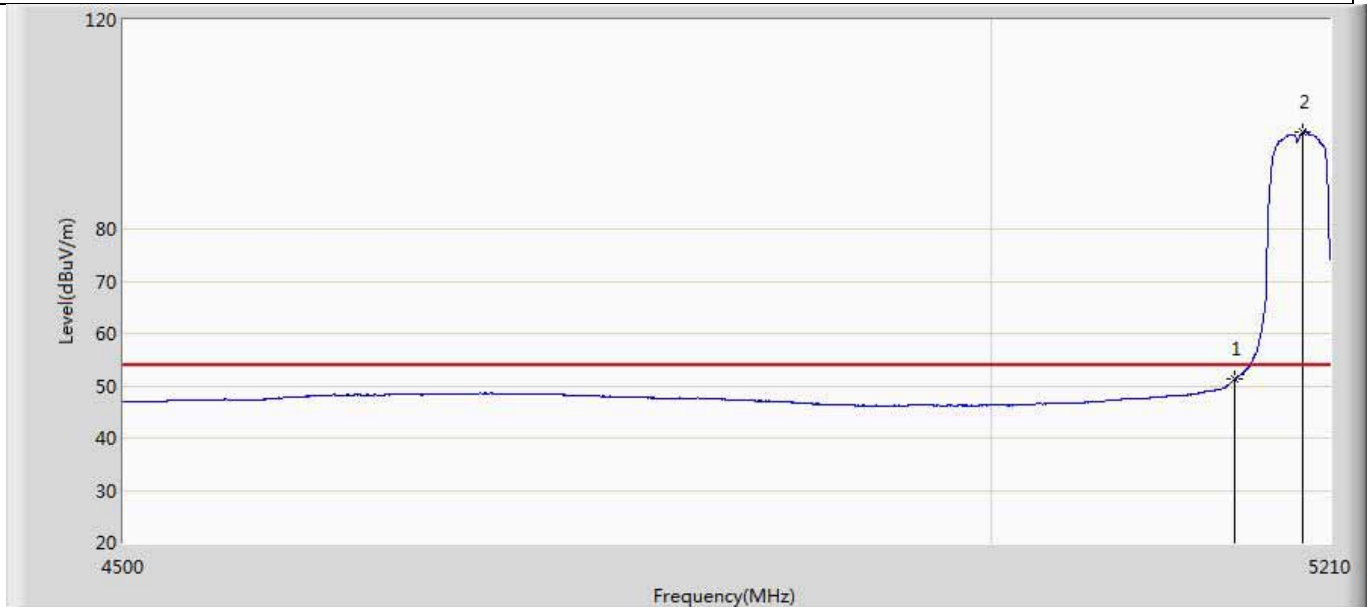
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5823.440	114.040	73.310	-8.160	122.200	40.730	PK
2		5851.680	83.043	42.192	-35.325	118.369	40.851	PK
3		5873.520	69.072	28.234	-36.542	105.614	40.838	PK
4		5883.960	65.553	24.725	-32.994	98.546	40.828	PK

Profile: 1962139R	Page No.: 70
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:14
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5825MHz by 11ac20	



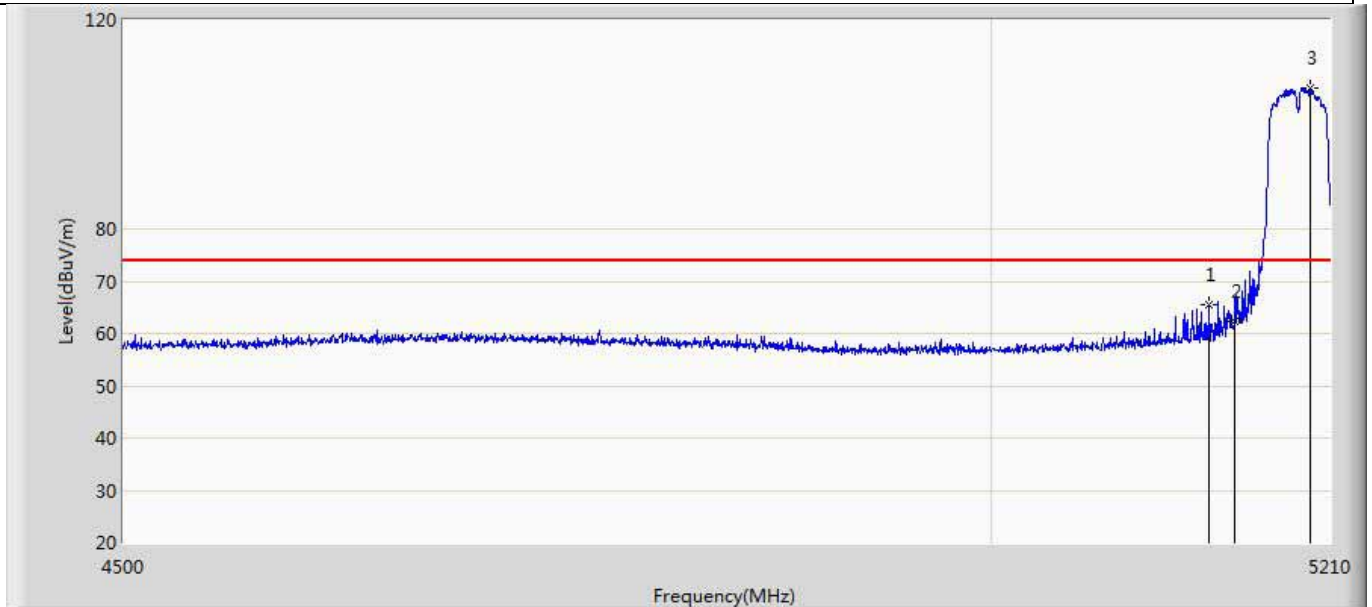
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5827.320	109.096	68.380	-13.104	122.200	40.716	PK
2		5853.440	76.050	35.196	-38.306	114.356	40.854	PK
3		5873.160	66.055	25.216	-39.659	105.714	40.839	PK
4		5881.160	63.215	22.389	-37.410	100.625	40.826	PK

Profile: 1962139R	Page No.: 71
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5190MHz by 11ac40	



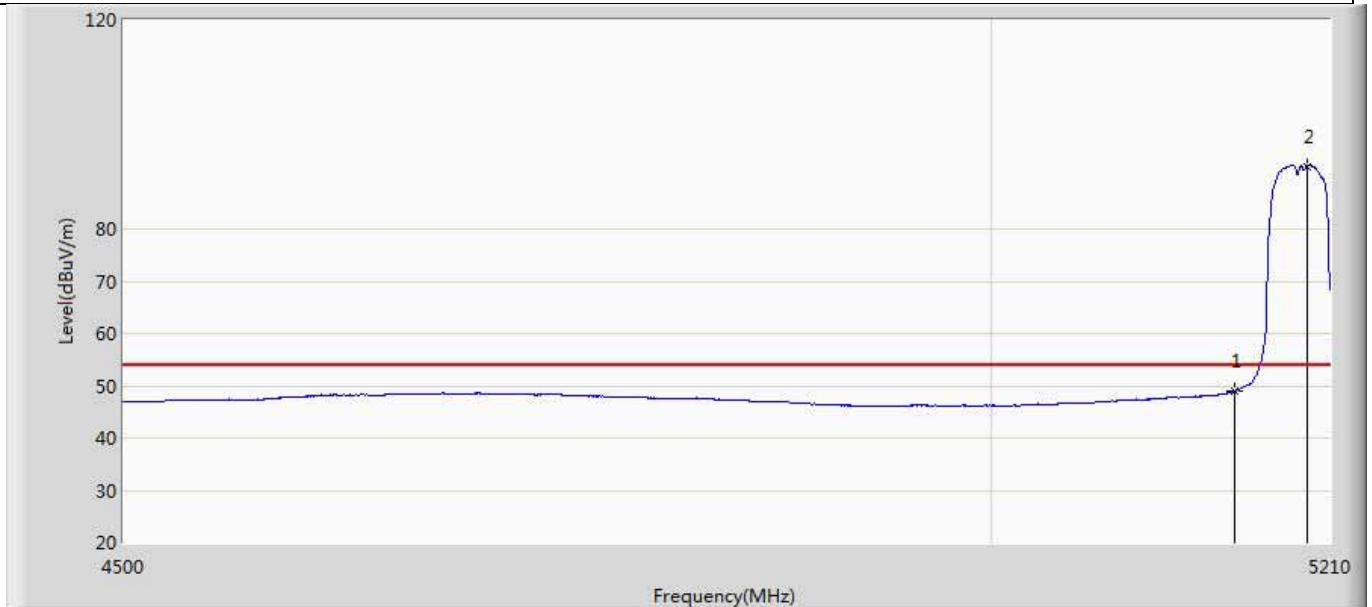
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	51.190	11.656	-2.810	54.000	39.534	AV
2	*	5192.960	98.461	58.808	44.461	54.000	39.654	AV

Profile: 1962139R	Page No.: 72
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5190MHz by 11ac40	



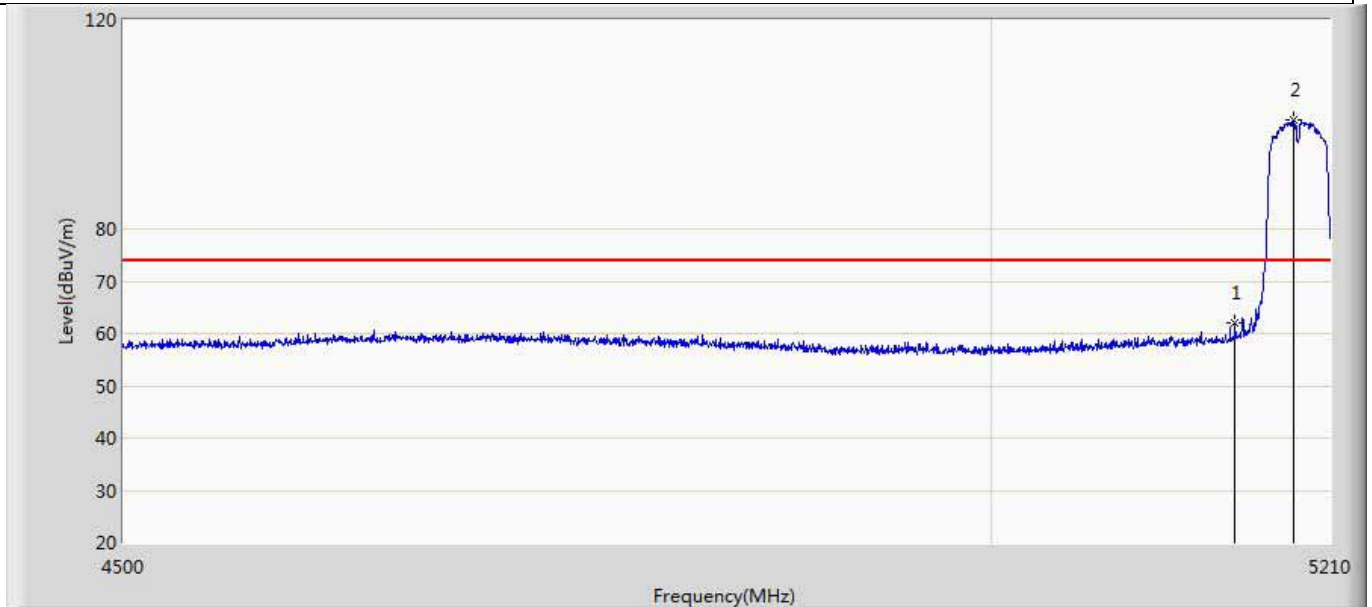
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5134.030	65.604	26.117	-8.396	74.000	39.487	PK
2		5150.000	62.397	22.863	-11.603	74.000	39.534	PK
3	*	5197.220	107.091	67.399	33.091	74.000	39.692	PK

Profile: 1962139R	Page No.: 73
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5190MHz by 11ac40	



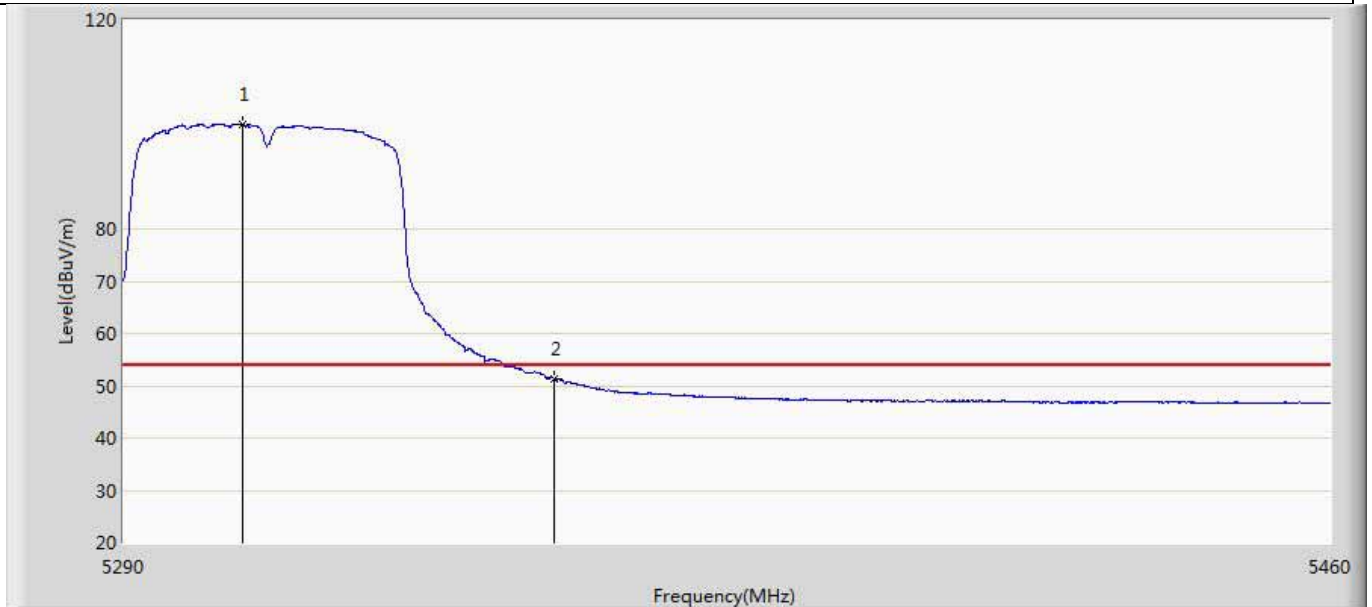
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	49.091	9.557	-4.909	54.000	39.534	AV
2	*	5195.445	92.020	52.344	38.020	54.000	39.676	AV

Profile: 1962139R	Page No.: 74
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5190MHz by 11ac40	



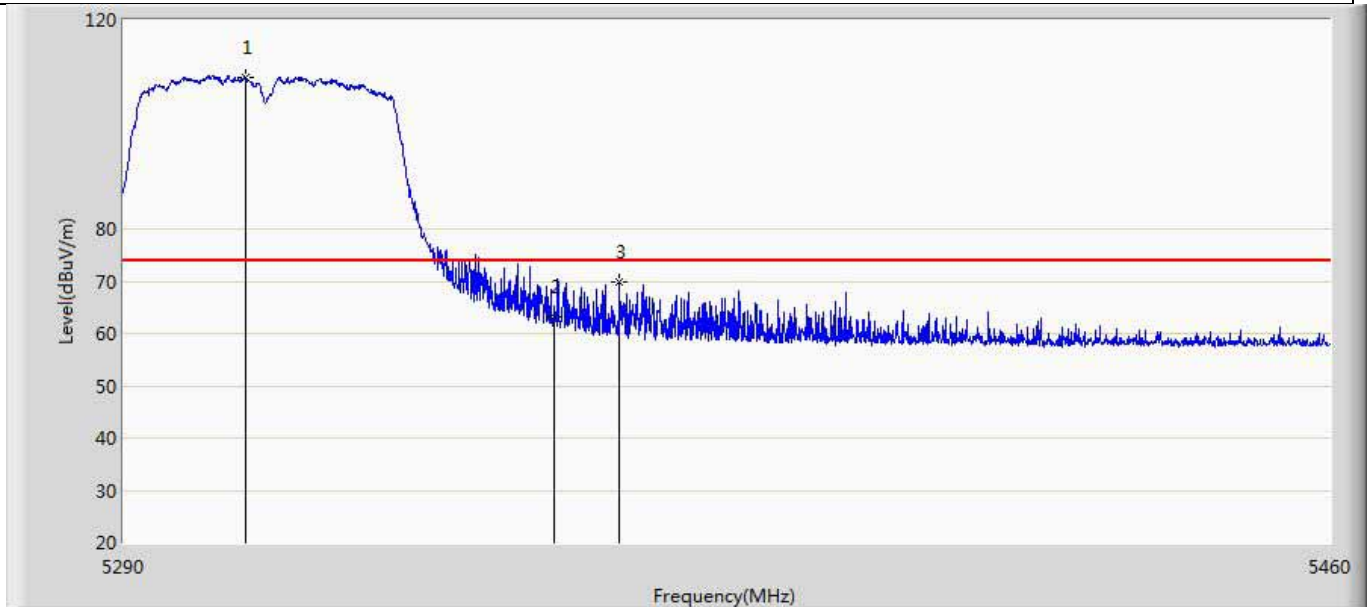
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	61.959	22.425	-12.041	74.000	39.534	PK
2	*	5186.925	100.759	61.160	26.759	74.000	39.599	PK

Profile: 1962139R	Page No.: 75
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5310MHz by 11ac40	



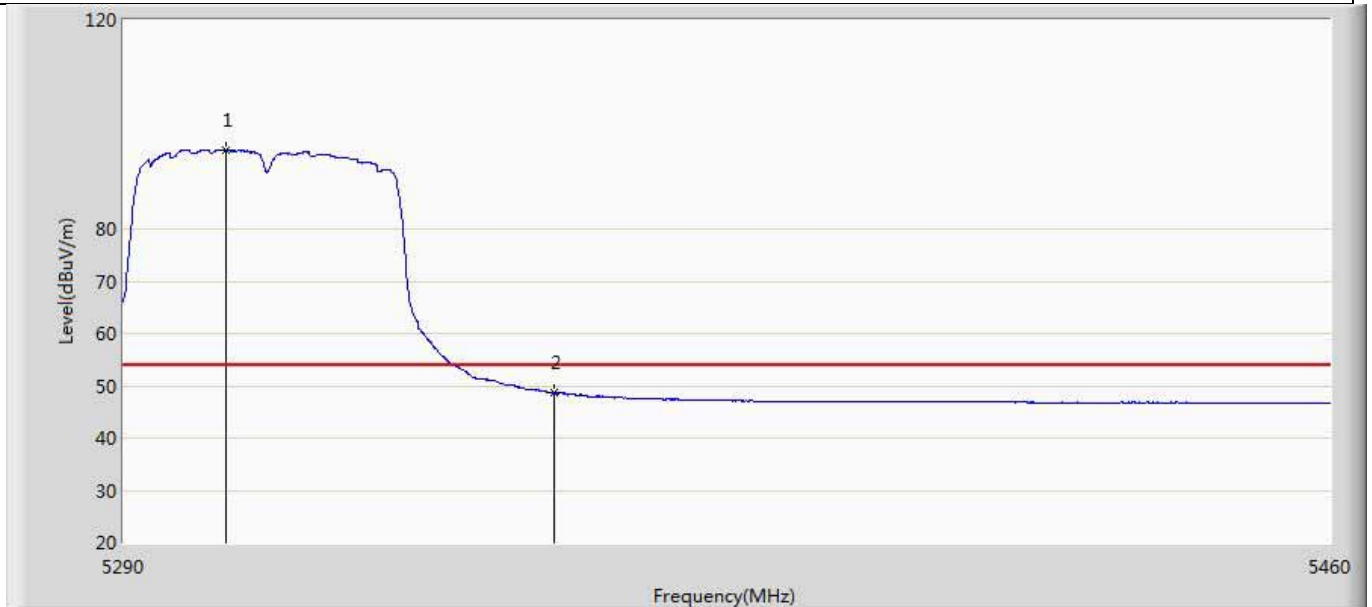
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5306.660	100.021	60.161	46.021	54.000	39.861	AV
2		5350.000	51.420	11.549	-2.580	54.000	39.871	AV

Profile: 1962139R	Page No.: 76
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5310MHz by 11ac40	



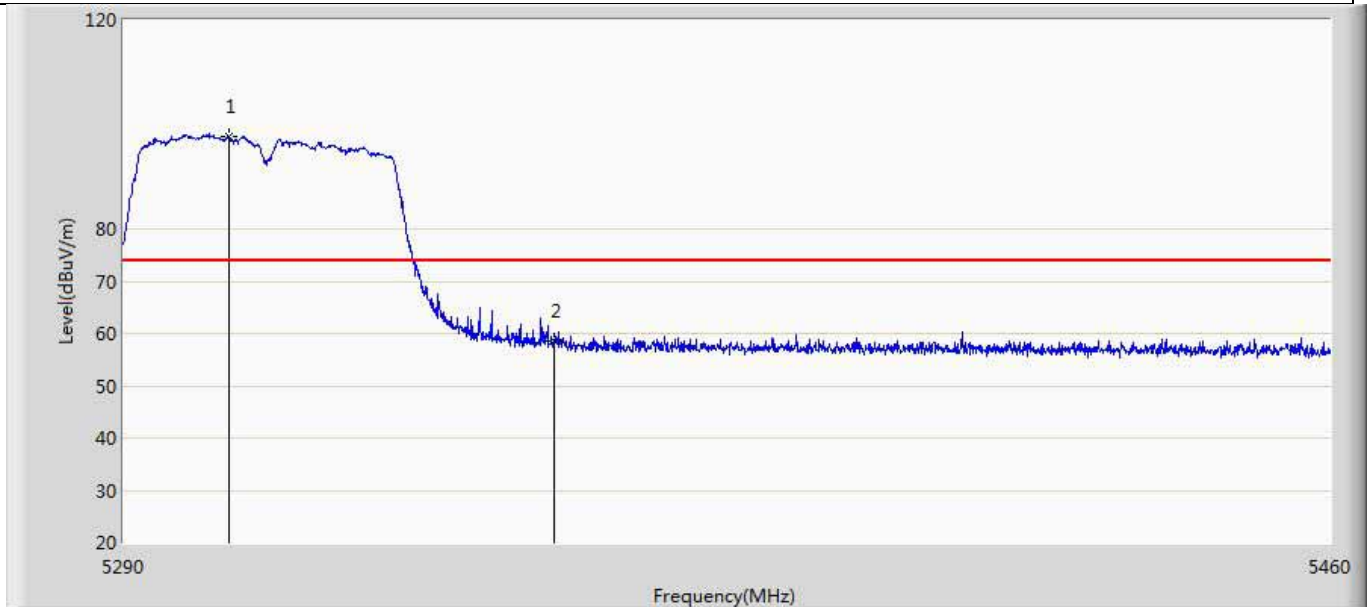
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5307.000	109.052	69.189	35.052	74.000	39.863	PK
2		5350.000	63.284	23.413	-10.716	74.000	39.871	PK
3		5359.275	69.731	29.848	-4.269	74.000	39.882	PK

Profile: 1962139R	Page No.: 77
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5310MHz by 11ac40	



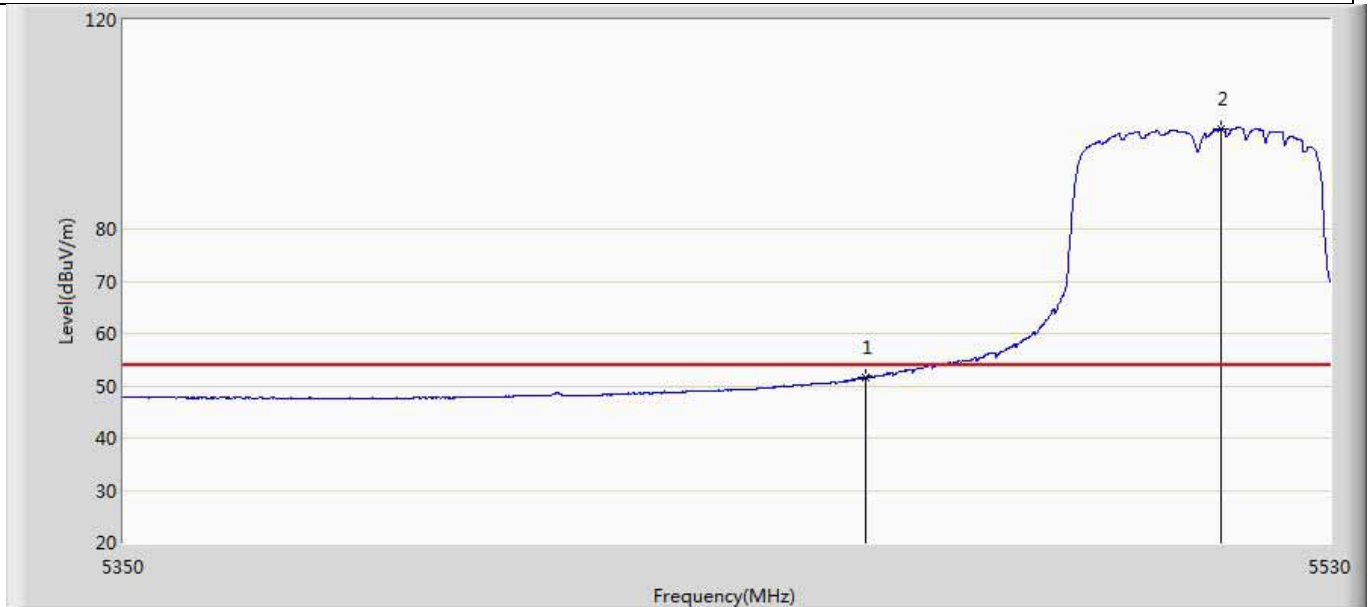
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5304.365	95.080	55.235	41.080	54.000	39.845	AV
2		5350.000	48.598	8.727	-5.402	54.000	39.871	AV

Profile: 1962139R	Page No.: 78
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5310MHz by 11ac40	



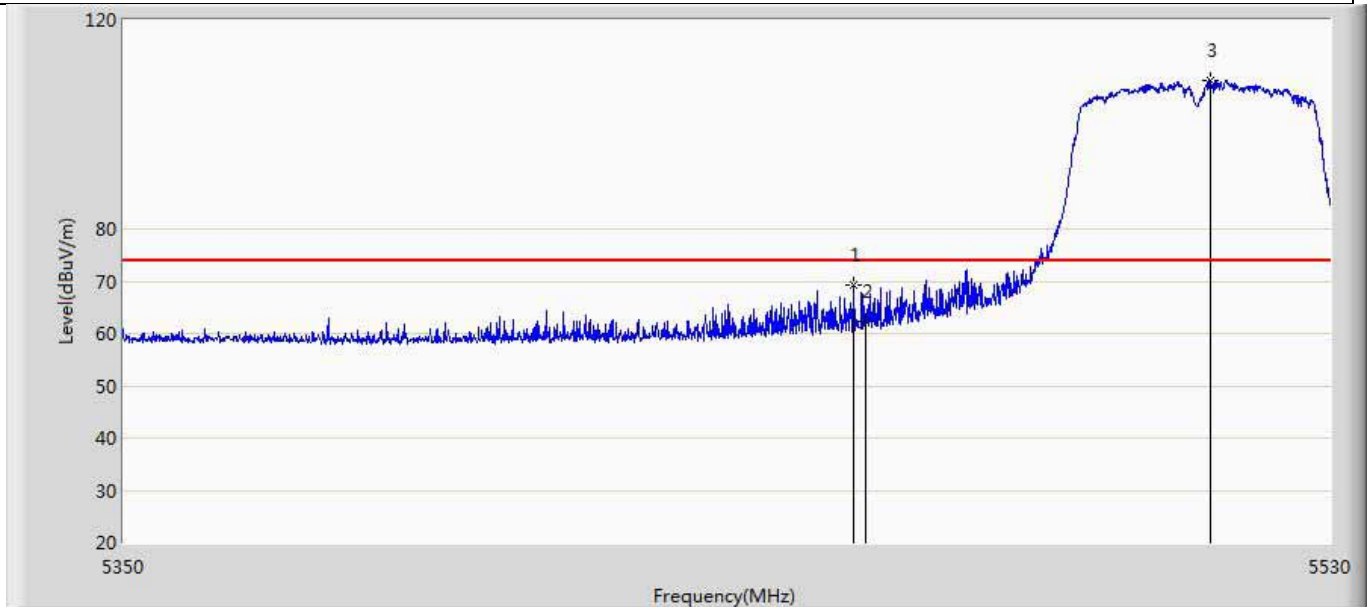
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5304.705	97.549	57.701	23.549	74.000	39.848	PK
2		5350.000	58.607	18.736	-15.393	74.000	39.871	PK

Profile: 1962139R	Page No.: 79
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5510MHz by 11ac40	



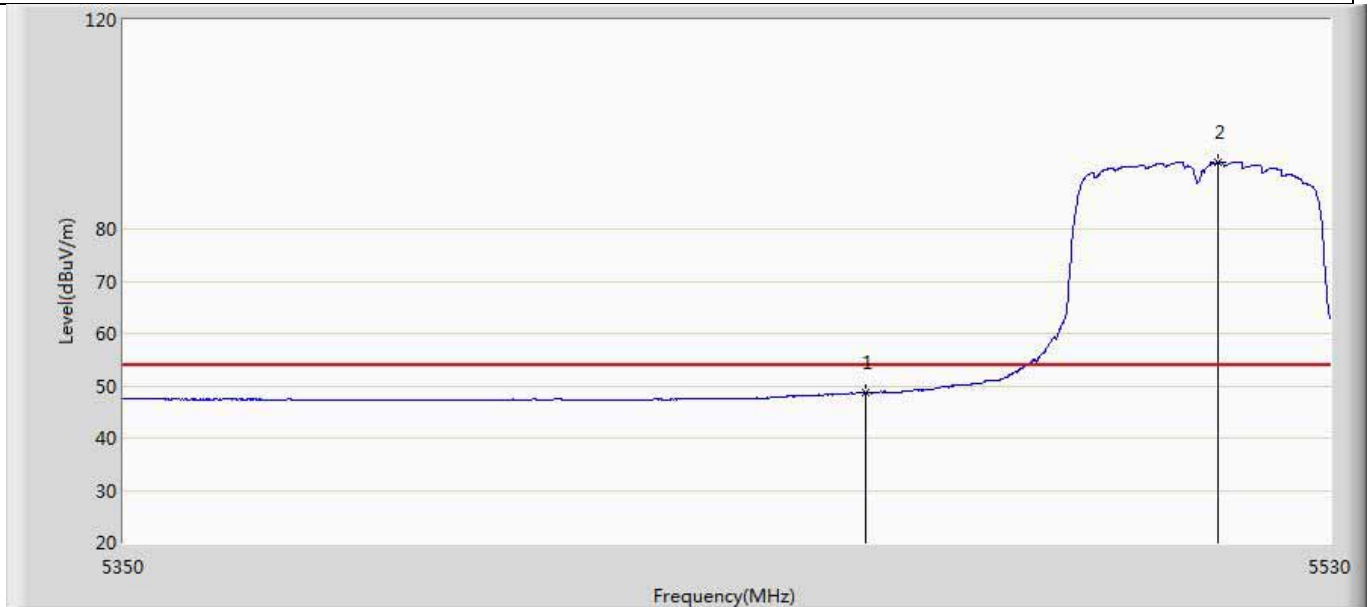
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	51.584	11.550	-2.416	54.000	40.034	AV
2	*	5513.530	99.074	58.953	45.074	54.000	40.120	AV

Profile: 1962139R	Page No.: 80
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5510MHz by 11ac40	



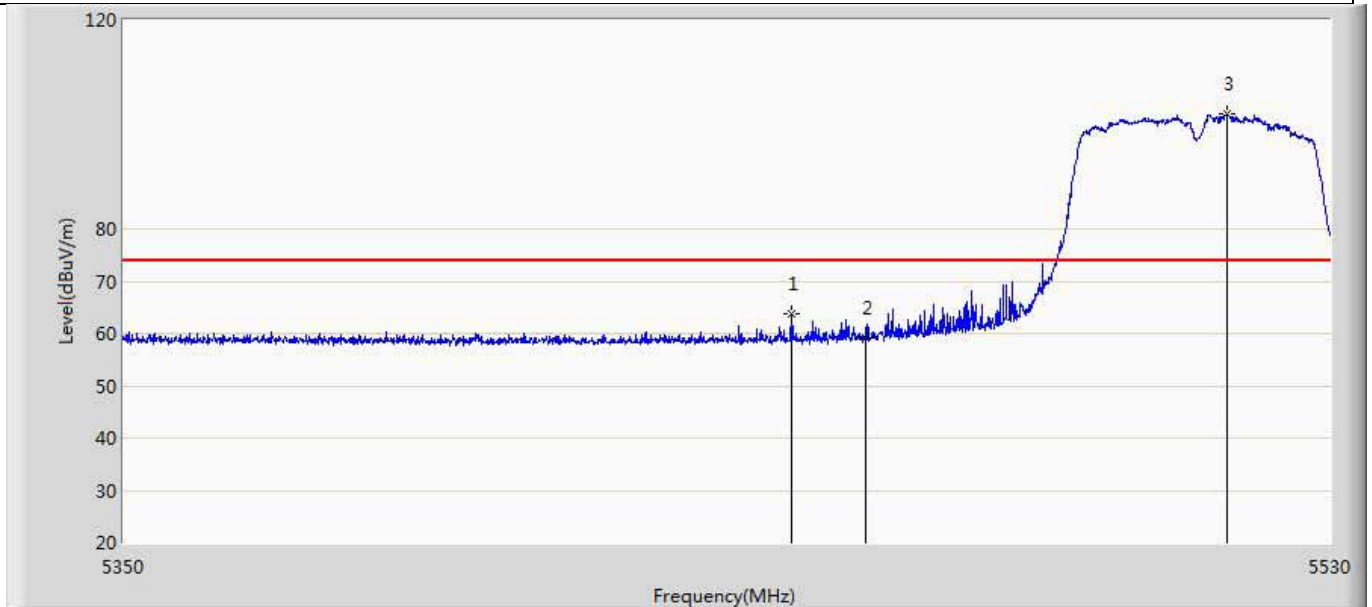
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5458.180	69.298	29.262	-4.702	74.000	40.036	PK
2		5460.000	62.268	22.234	-11.732	74.000	40.034	PK
3	*	5511.820	108.458	68.339	34.458	74.000	40.119	PK

Profile: 1962139R	Page No.: 81
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5510MHz by 11ac40	



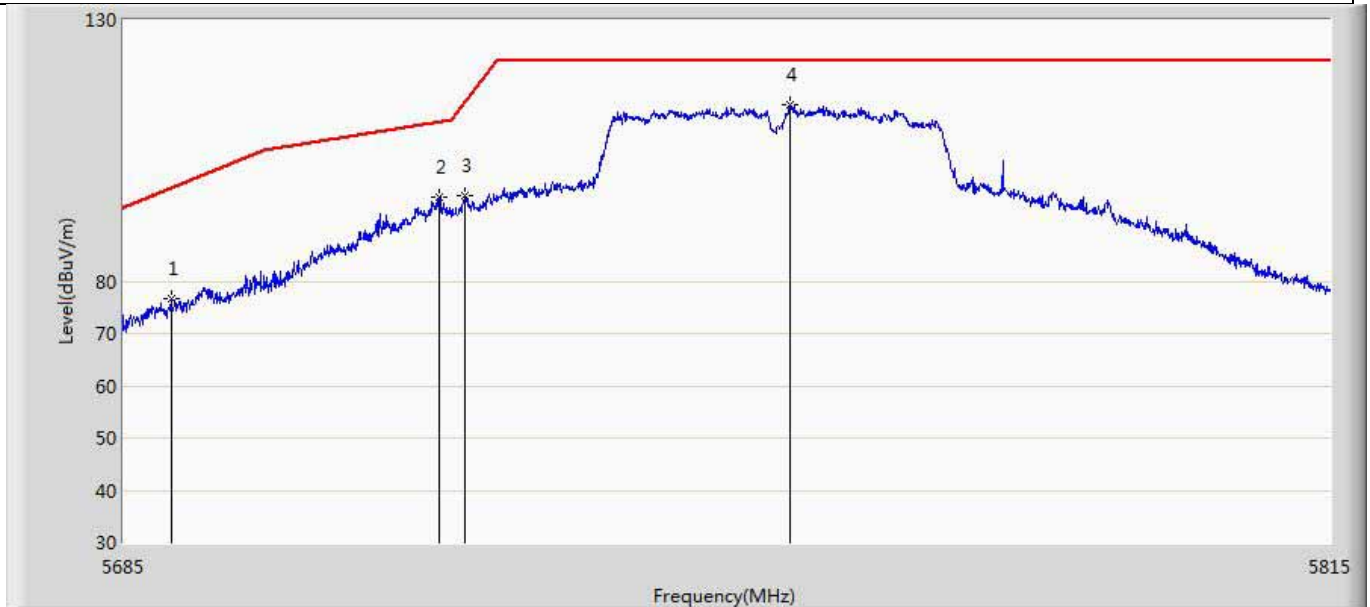
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	48.735	8.701	-5.265	54.000	40.034	AV
2	*	5513.080	92.845	52.725	38.845	54.000	40.120	AV

Profile: 1962139R	Page No.: 82
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5510MHz by 11ac40	



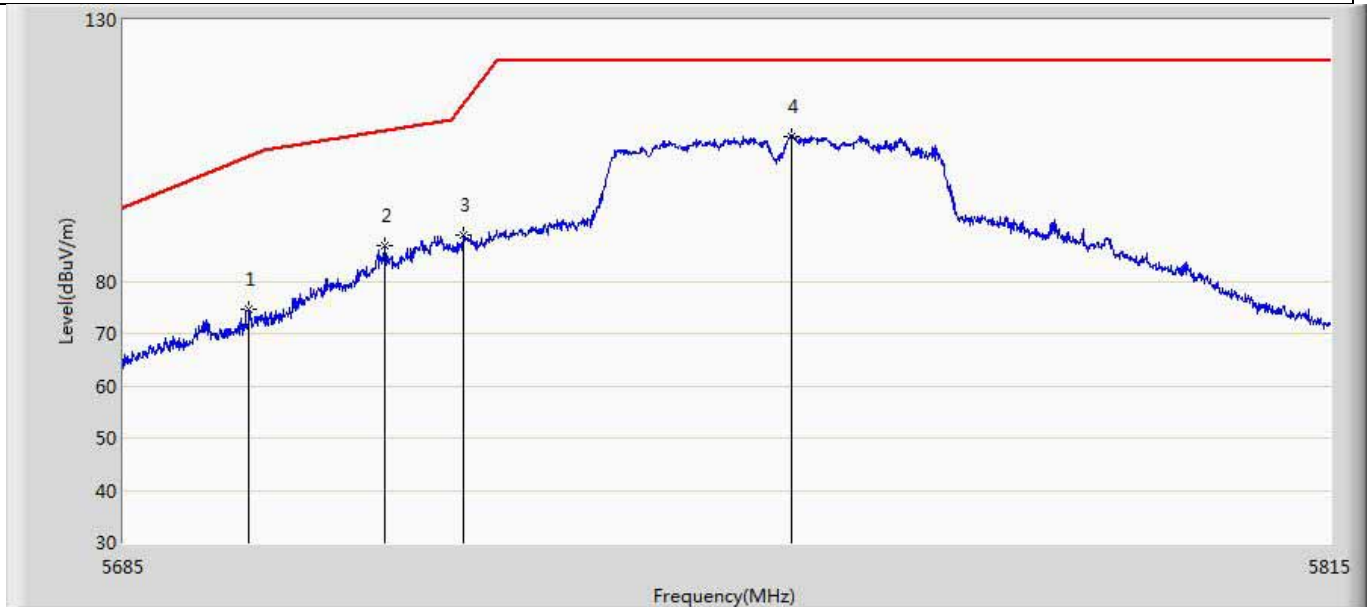
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5448.910	63.725	23.696	-10.275	74.000	40.029	PK
2		5460.000	59.119	19.085	-14.881	74.000	40.034	PK
3	*	5514.430	101.899	61.777	27.899	74.000	40.121	PK

Profile: 1962139R	Page No.: 83
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:53
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5755MHz by 11ac40	



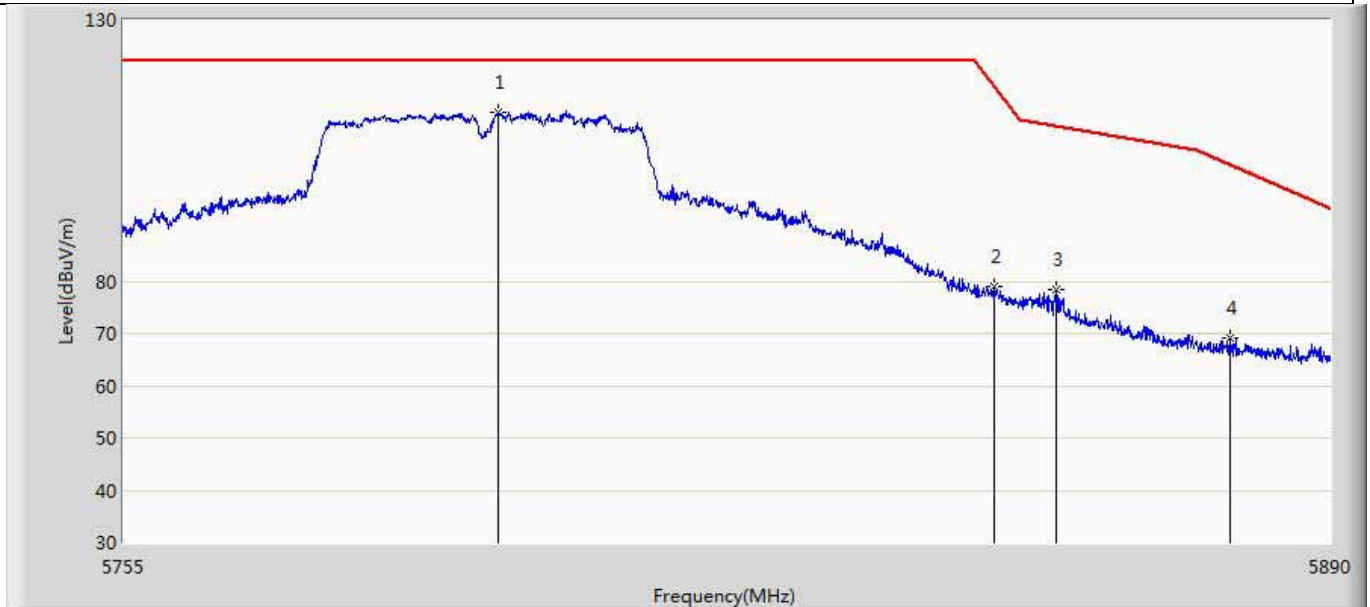
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5690.135	76.783	36.265	-21.143	97.926	40.517	PK
2		5718.735	96.024	55.478	-14.423	110.446	40.546	PK
3		5721.595	96.461	55.931	-17.977	114.438	40.530	PK
4	*	5756.435	113.667	73.055	-8.533	122.200	40.612	PK

Profile: 1962139R	Page No.: 84
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:56
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5755MHz by 11ac40	



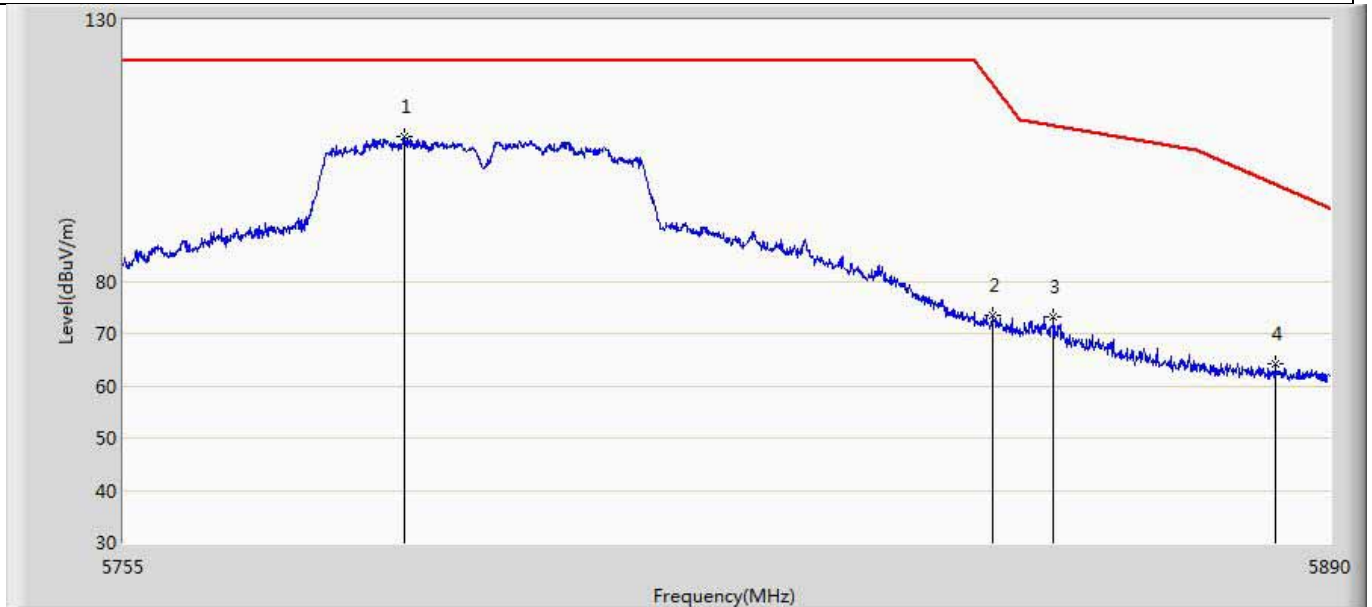
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5698.455	74.664	34.114	-29.397	104.062	40.550	PK
2		5712.950	86.682	46.104	-22.147	108.828	40.577	PK
3		5721.400	88.760	48.229	-25.233	113.993	40.531	PK
4	*	5756.630	107.823	67.210	-14.377	122.200	40.613	PK

Profile: 1962139R	Page No.: 85
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 20:59
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5795MHz by 11ac40	



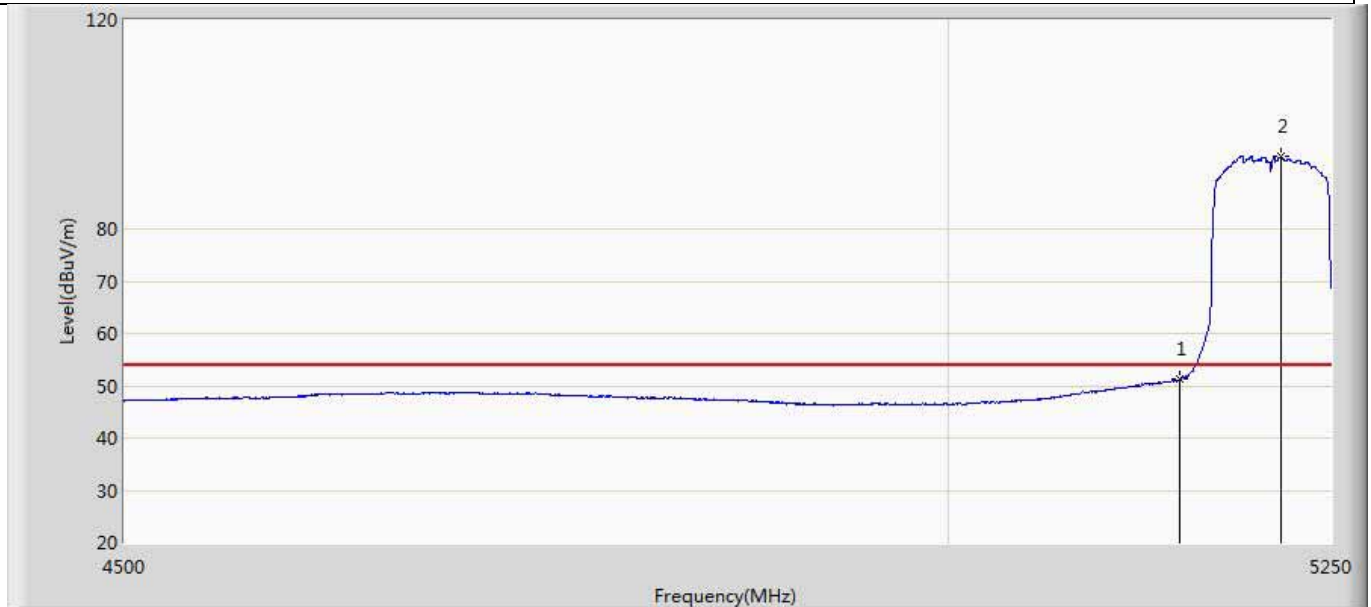
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5796.647	112.333	71.565	-9.867	122.200	40.768	PK
2		5852.132	79.026	38.174	-38.312	117.338	40.852	PK
3		5859.152	78.445	37.582	-31.191	109.636	40.863	PK
4		5878.795	69.083	28.258	-33.298	102.381	40.825	PK

Profile: 1962139R	Page No.: 86
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 21:07
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5795MHz by 11ac40	



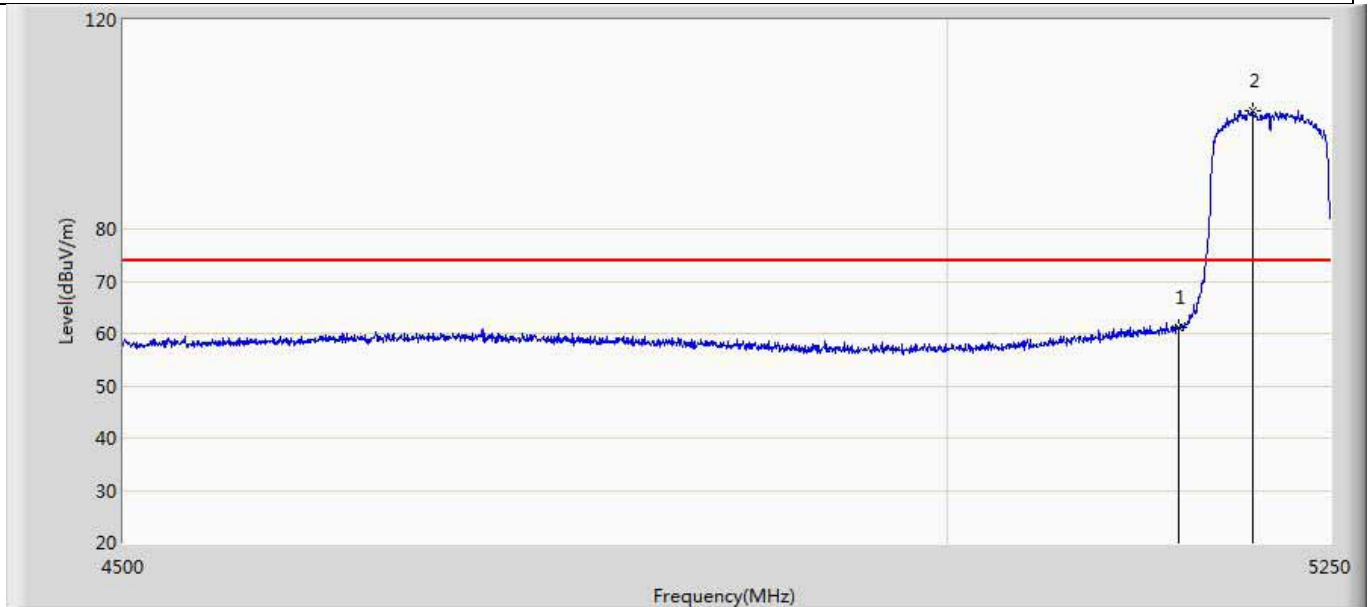
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5786.252	107.609	66.895	-14.591	122.200	40.714	PK
2		5851.998	73.614	32.762	-44.030	117.643	40.852	PK
3		5858.815	73.084	32.222	-36.646	109.730	40.863	PK
4		5883.857	64.300	23.472	-34.323	98.623	40.828	PK

Profile: 1962139R	Page No.: 87
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 21:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5210MHz by 11ac80	



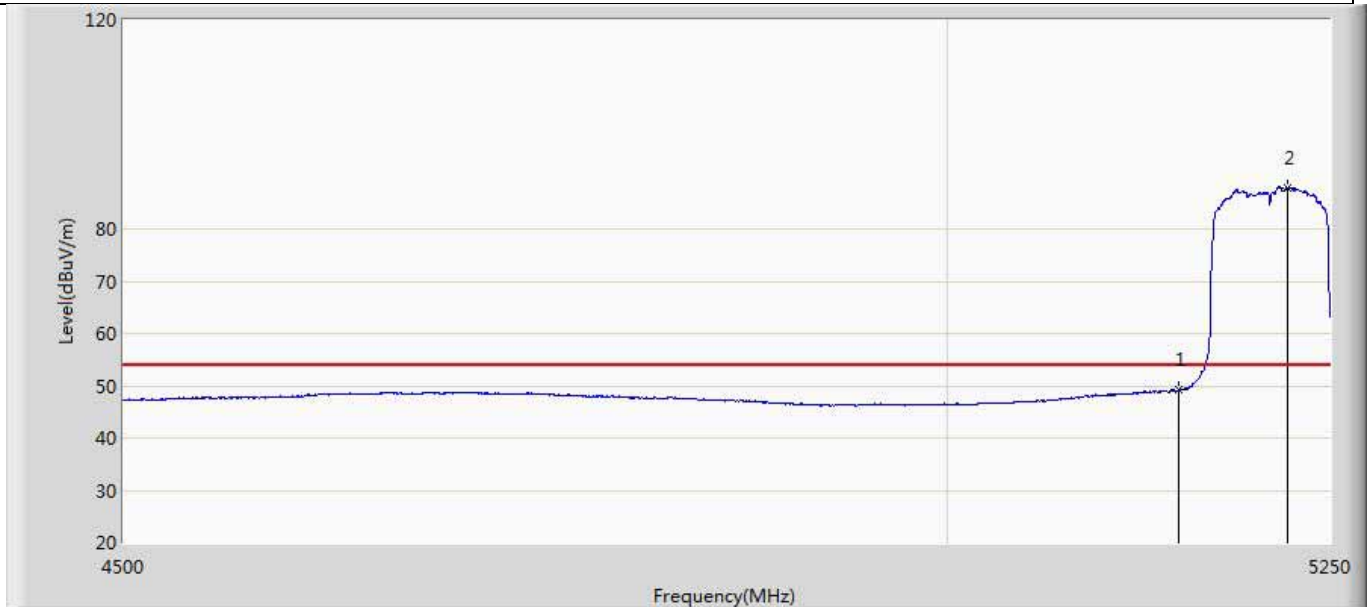
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	51.222	11.688	-2.778	54.000	39.534	AV
2	*	5216.250	93.853	54.144	39.853	54.000	39.709	AV

Profile: 1962139R	Page No.: 88
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 21:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5210MHz by 11ac80	



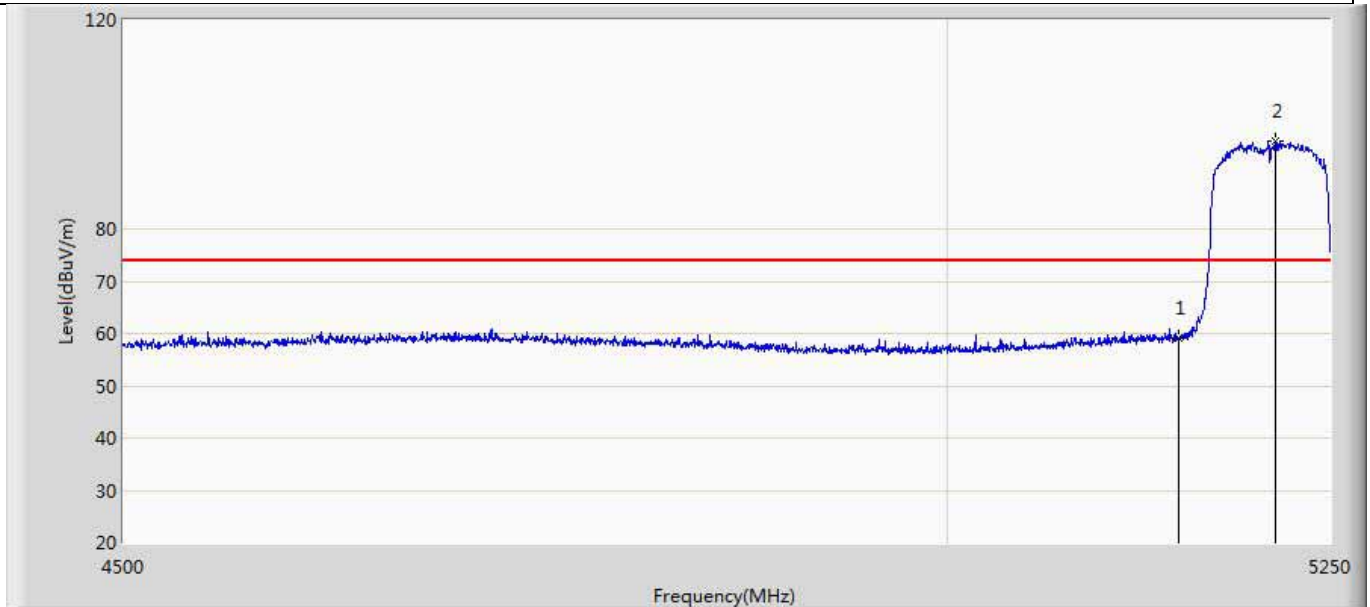
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	61.059	21.525	-12.941	74.000	39.534	PK
2	*	5198.250	102.732	63.030	28.732	74.000	39.701	PK

Profile: 1962139R	Page No.: 89
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 21:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5210MHz by 11ac80	



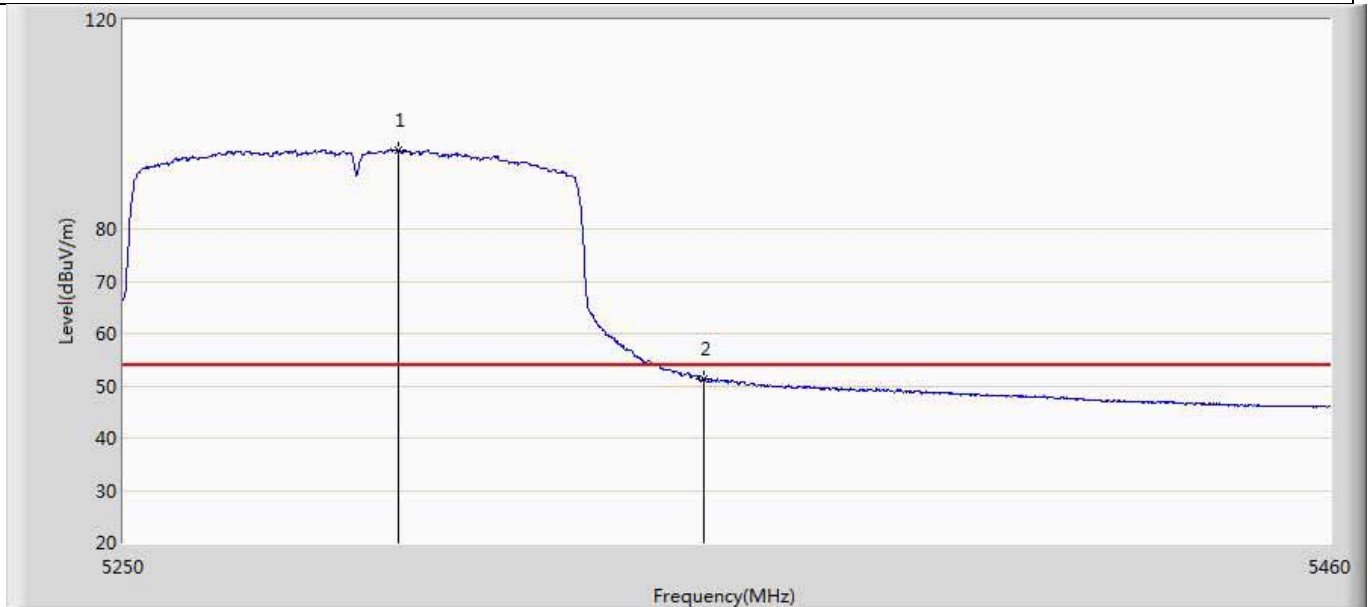
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	49.175	9.641	-4.825	54.000	39.534	AV
2	*	5221.500	87.898	48.217	33.898	54.000	39.680	AV

Profile: 1962139R	Page No.: 90
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 21:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5210MHz by 11ac80	



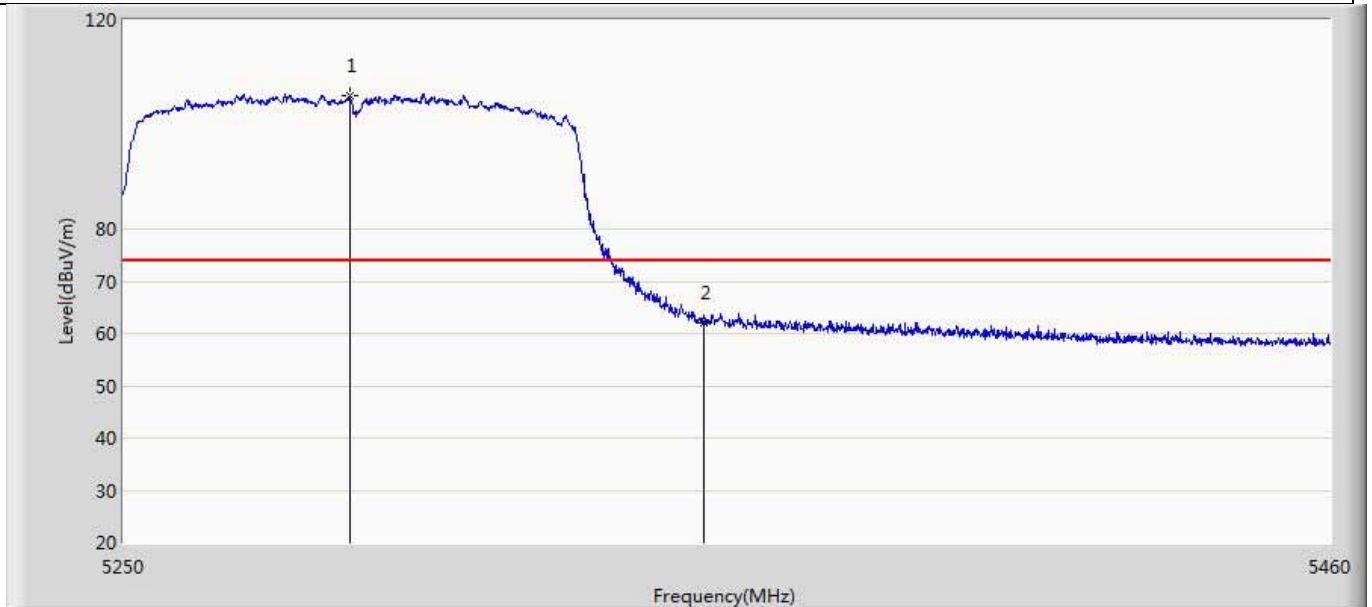
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	59.007	19.473	-14.993	74.000	39.534	PK
2	*	5214.000	96.747	57.037	22.747	74.000	39.710	PK

Profile: 1962139R	Page No.: 91
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 21:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5290MHz by 11ac80	



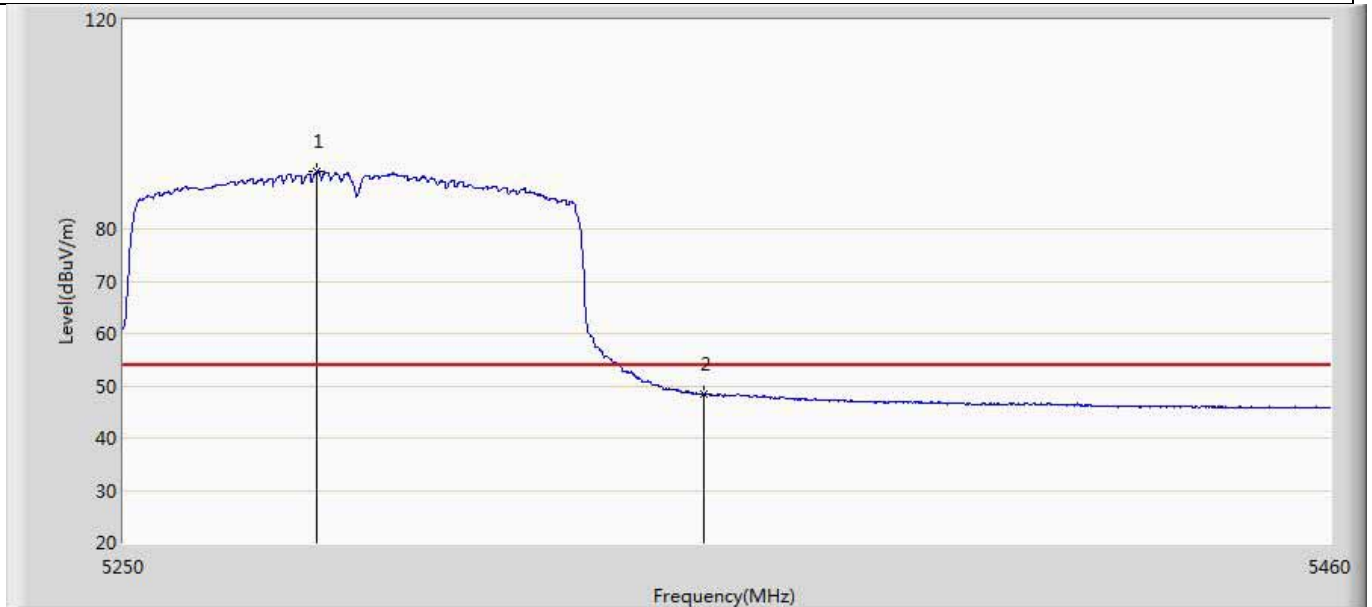
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5297.145	95.126	55.298	41.126	54.000	39.828	AV
2		5350.000	51.196	11.325	-2.804	54.000	39.871	AV

Profile: 1962139R	Page No.: 92
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 21:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5290MHz by 11ac80	



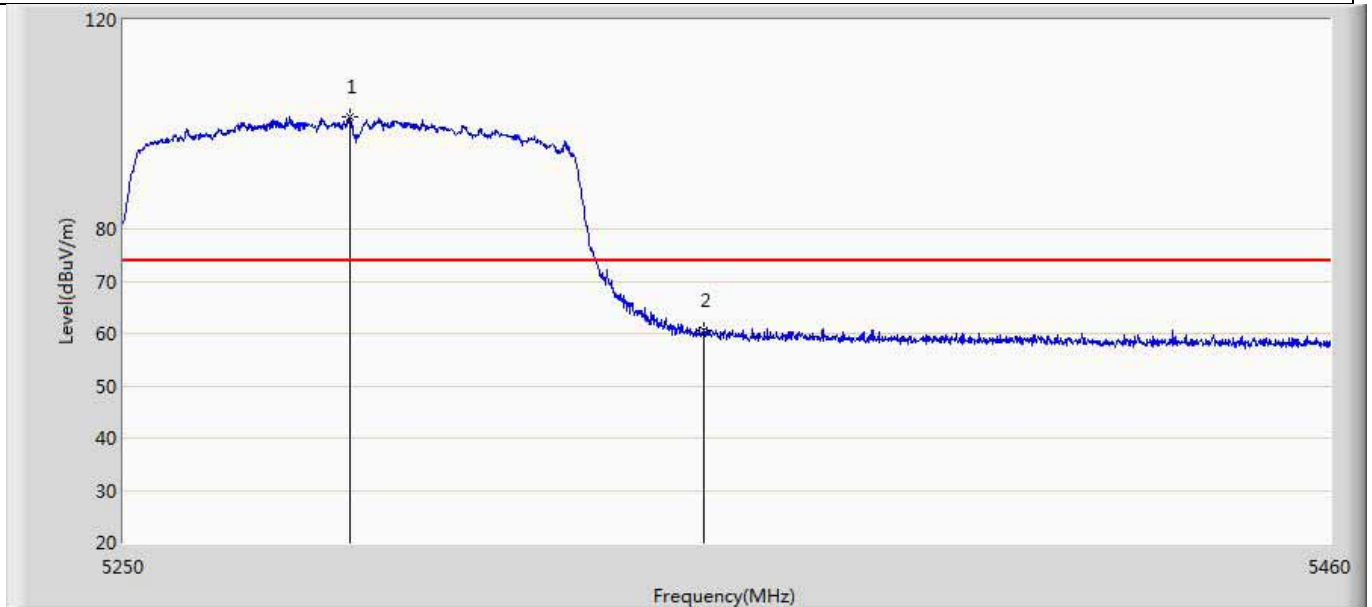
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5288.745	105.397	65.559	31.397	74.000	39.839	PK
2		5350.000	62.167	22.296	-11.833	74.000	39.871	PK

Profile: 1962139R	Page No.: 93
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 21:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5290MHz by 11ac80	



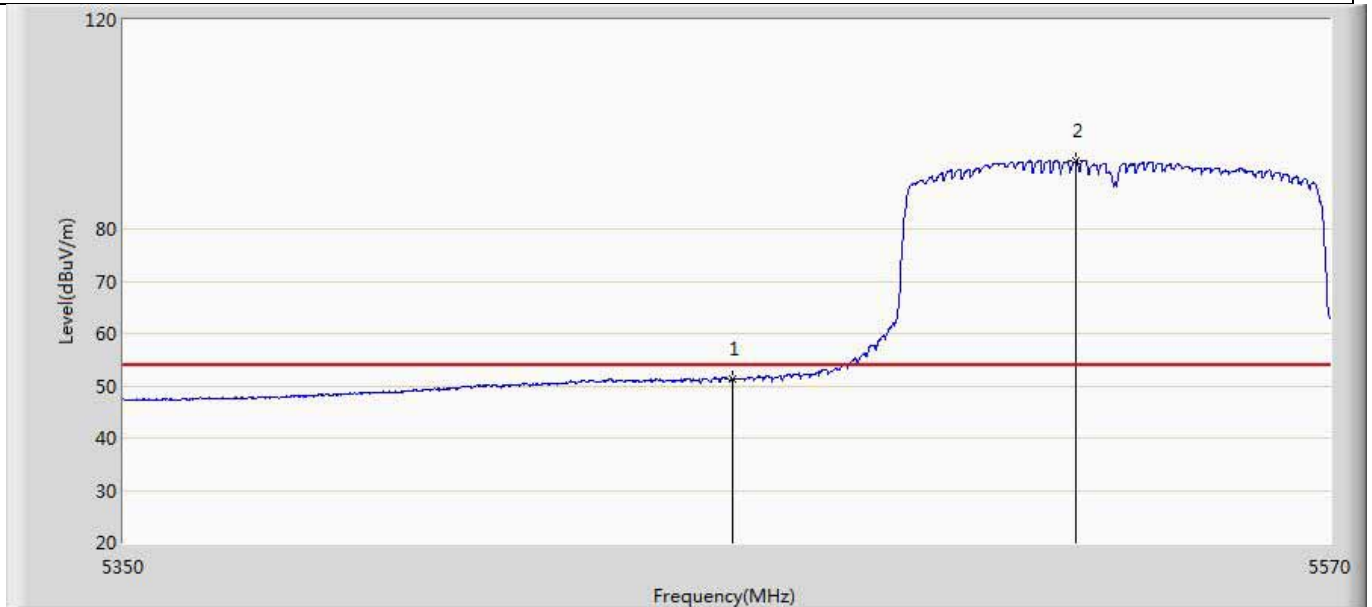
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5283.180	90.971	51.132	36.971	54.000	39.838	AV
2		5350.000	48.269	8.398	-5.731	54.000	39.871	AV

Profile: 1962139R	Page No.: 94
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 21:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5290MHz by 11ac80	



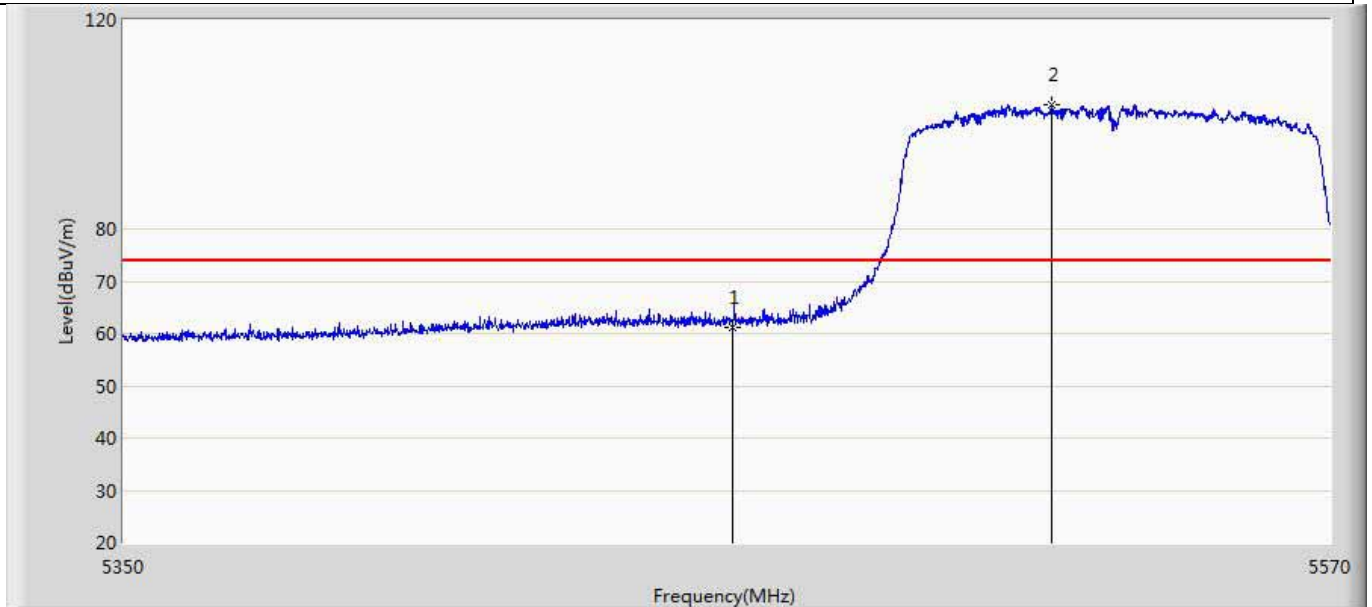
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5288.745	101.341	61.503	27.341	74.000	39.839	PK
2		5350.000	60.468	20.597	-13.532	74.000	39.871	PK

Profile: 1962139R	Page No.: 95
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 21:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5530MHz by 11ac80	



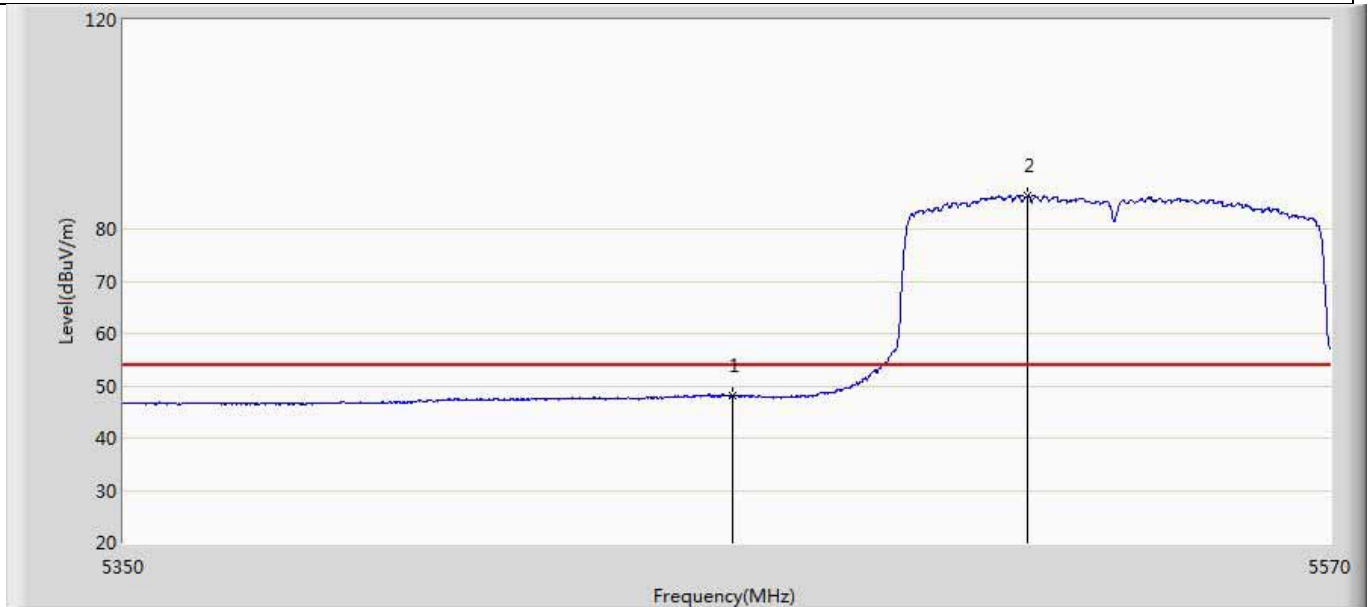
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	51.272	11.238	-2.728	54.000	40.034	AV
2	*	5523.030	93.048	52.907	39.048	54.000	40.141	AV

Profile: 1962139R	Page No.: 96
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 21:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5530MHz by 11ac80	



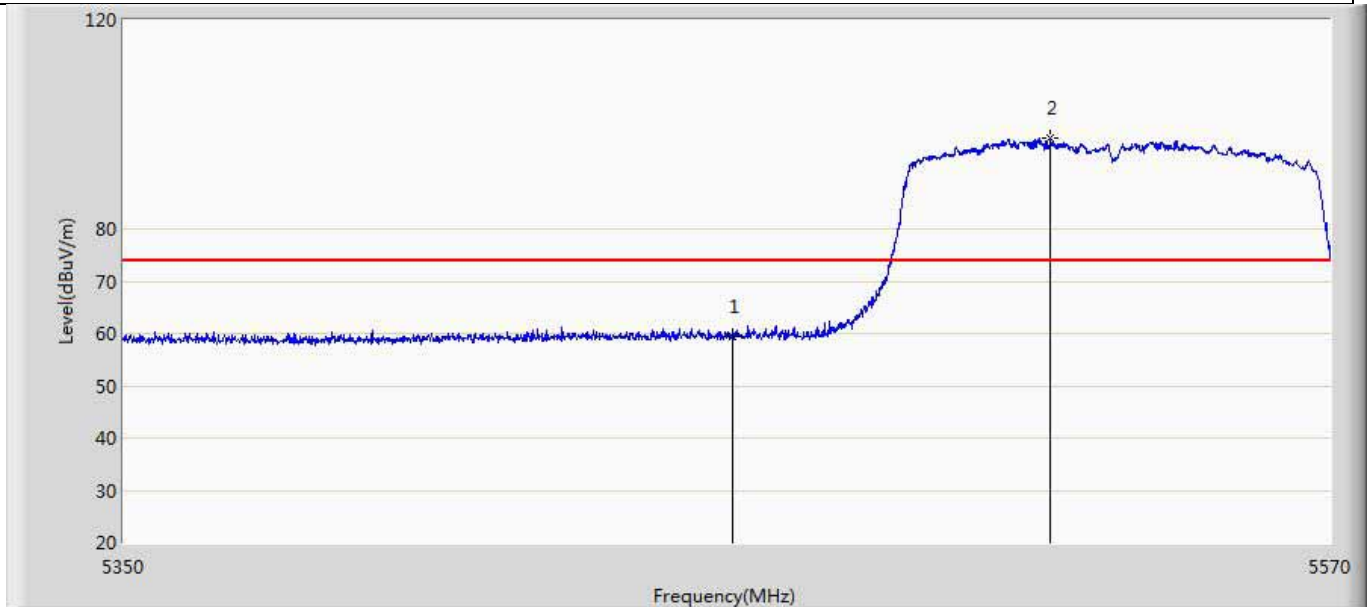
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	61.237	21.203	-12.763	74.000	40.034	PK
2	*	5518.410	103.888	63.762	29.888	74.000	40.126	PK

Profile: 1962139R	Page No.: 97
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 21:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5530MHz by 11ac80	



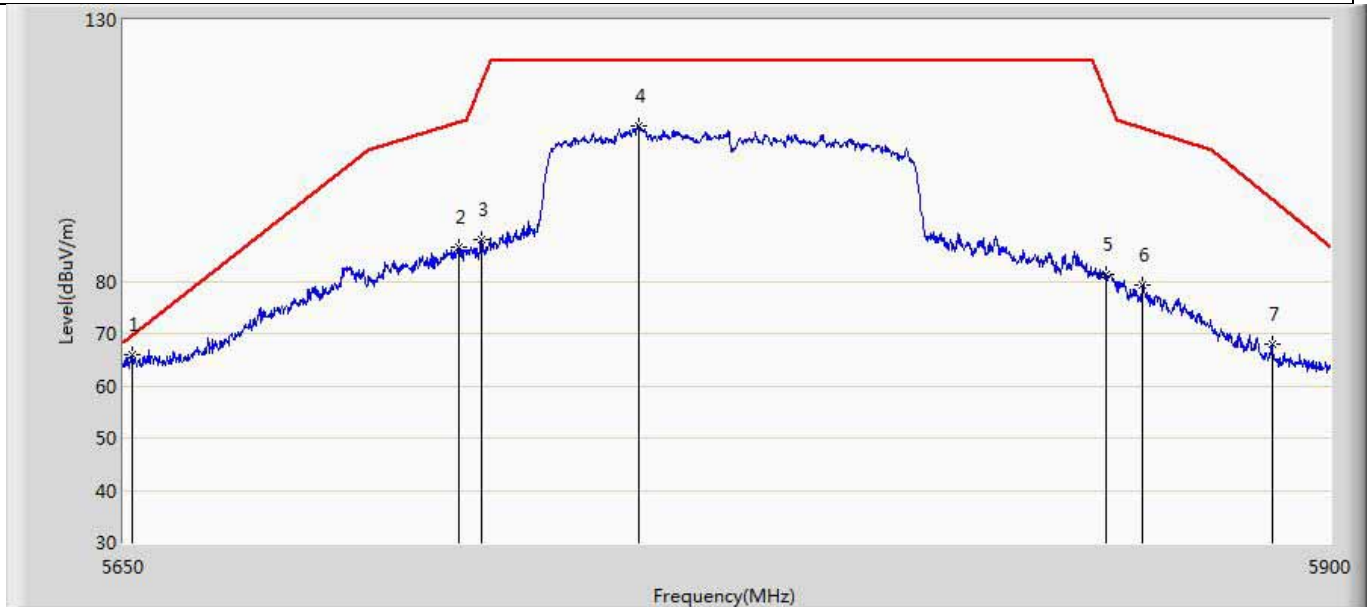
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	48.094	8.060	-5.906	54.000	40.034	AV
2	*	5514.010	86.311	46.190	32.311	54.000	40.121	AV

Profile: 1962139R	Page No.: 98
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 21:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5530MHz by 11ac80	



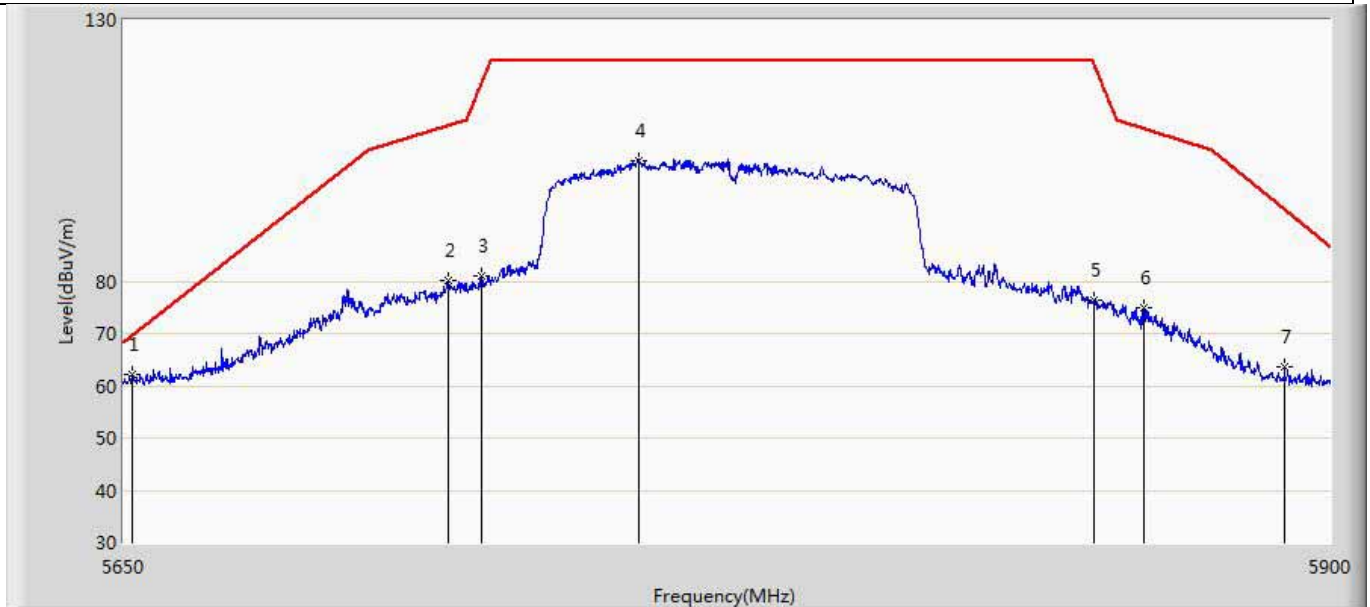
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5460.000	59.310	19.276	-14.690	74.000	40.034	PK
2	*	5518.300	97.253	57.127	23.253	74.000	40.126	PK

Profile: 1962139R	Page No.: 99
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 21:41
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5775MHz by 11ac80	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5651.875	65.834	25.394	-3.760	69.593	40.439	PK
2		5718.375	86.555	46.007	-23.791	110.346	40.548	PK
3		5723.000	87.839	47.317	-29.802	117.641	40.522	PK
4		5755.625	109.797	69.186	-12.403	122.200	40.611	PK
5		5852.750	81.409	40.556	-34.520	115.929	40.853	PK
6		5860.500	79.402	38.537	-29.856	109.258	40.865	PK
7		5887.875	67.872	27.042	-27.770	95.642	40.830	PK

Profile: 1962139R	Page No.: 100
Engineer: YULIU	
Site: AC5	Time: 2019/06/28 - 21:48
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Barcode Scanner	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5775MHz by 11ac80	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5651.750	62.318	21.879	-7.183	69.501	40.438	PK
2		5716.250	80.282	39.723	-29.469	109.751	40.560	PK
3		5723.000	80.964	40.442	-36.677	117.641	40.522	PK
4		5755.500	103.156	62.546	-19.044	122.200	40.611	PK
5		5850.250	76.445	35.596	-45.185	121.630	40.849	PK
6		5860.625	75.004	34.139	-34.219	109.223	40.865	PK
7		5890.375	63.492	22.660	-30.297	93.789	40.832	PK

Remark	1. " * ", means this data is the worst emission level. 2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp). 3. The complete raw data please refer to Appendix RSE, Shown in the report is the worst data.
--------	--

4.5 Emission bandwidth and occupied bandwidth

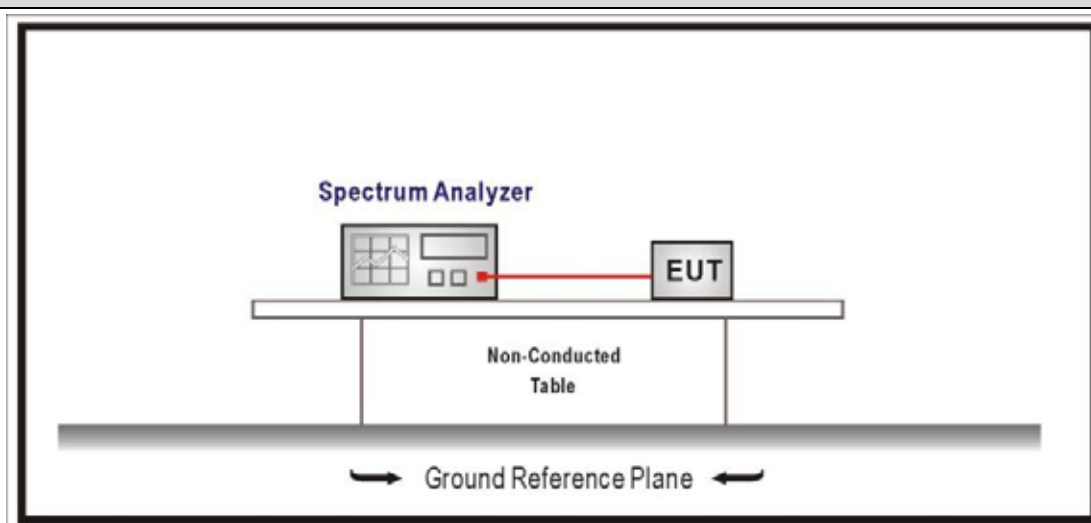
VERDICT: PASS

4.5.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.202
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Within the band.

4.5.2 Test Setup



4.5.3 Test Procedure

	Reference Rule	Chapter	Description
☒	ANSI C63.10	12.4	Emission bandwidth and occupied bandwidth
☒	ANSI C63.10	12.4.1	Emission bandwidth (26dB)
☒	ANSI C63.10	12.4.2	Occupied bandwidth (99%)

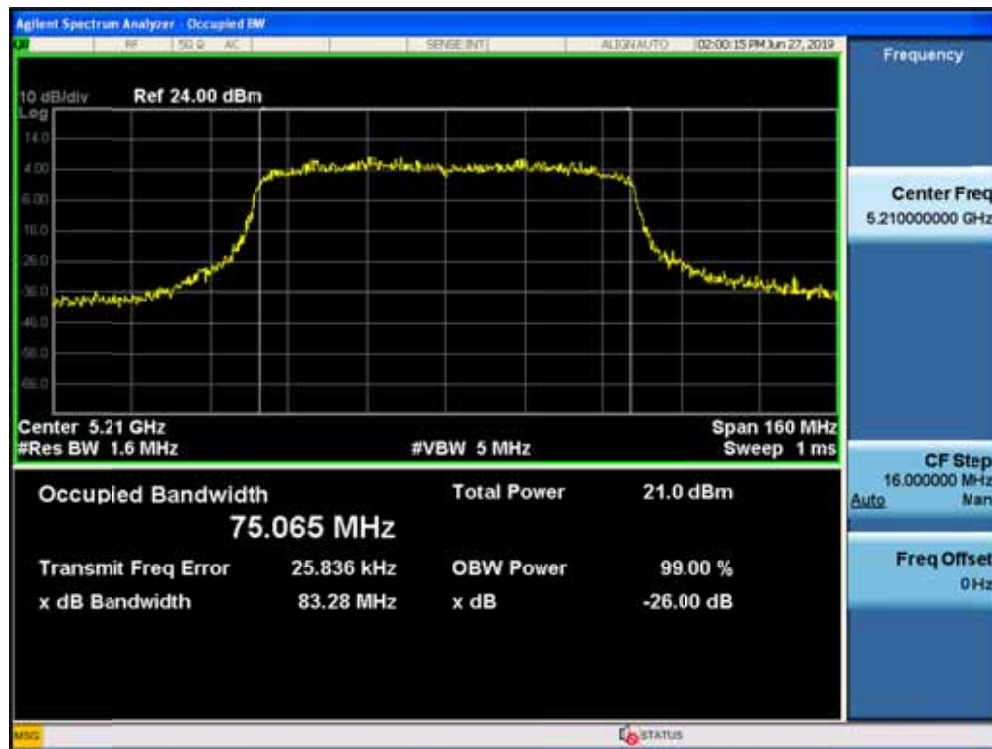
4.5.4 Test Data

Mode	CH.	Test Freq. (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
1	36	5180	21.16	16.454	5171.773	Pass
	40	5220	25.14	16.760	N/A	Pass
	48	5240	23.43	16.606	5248.303	Pass
	52	5260	21.06	16.451	N/A	Pass
	60	5300	25.75	16.633	N/A	Pass
	64	5320	25.38	16.718	N/A	Pass
	100	5500	20.18	16.403	N/A	Pass
	116	5580	20.57	16.447	N/A	Pass
	140	5700	19.07	16.355	N/A	Pass
2	36	5180	20.05	17.402	5171.299	Pass
	40	5220	20.15	17.407	N/A	Pass
	48	5240	19.97	17.409	5248.705	Pass
	52	5260	20.08	17.390	N/A	Pass
	60	5300	20.19	17.433	N/A	Pass
	64	5320	20.33	17.437	N/A	Pass
	100	5500	20.64	17.441	N/A	Pass
	116	5580	20.30	17.443	N/A	Pass
	140	5700	20.11	17.427	N/A	Pass
3	38	5190	40.05	35.789	5172.106	Pass
	46	5230	40.61	35.899	5247.950	Pass
	54	5270	40.11	35.848	N/A	Pass
	62	5310	40.23	35.827	N/A	Pass
	102	5510	40.01	35.767	N/A	Pass
	110	5550	42.10	35.968	N/A	Pass
	134	5670	41.16	35.905	N/A	Pass
4	36	5180	20.02	17.440	5171.280	Pass
	40	5220	19.90	17.469	N/A	Pass
	48	5240	20.24	17.407	5248.704	Pass
	52	5260	20.11	17.388	N/A	Pass
	60	5300	20.06	17.398	N/A	Pass
	64	5320	19.87	17.419	N/A	Pass
	100	5500	20.53	17.481	N/A	Pass
	116	5580	20.54	17.472	N/A	Pass
	140	5700	20.13	17.420	N/A	Pass
5	38	5190	40.16	35.847	5172.077	Pass
	46	5230	40.82	35.904	5247.952	Pass
	54	5270	40.35	35.836	N/A	Pass
	62	5310	40.46	35.866	N/A	Pass
	102	5510	40.14	35.779	N/A	Pass

6	110	5550	40.85	35.960	N/A	Pass
	134	5670	41.11	35.972	N/A	Pass
	42	5210	83.28	75.065	5172.468/ 5247.533	Pass
	58	5290	83.27	75.262	N/A	Pass
	106	5530	80.93	74.507	N/A	Pass

Note : The worst case of Occupied Bandwidth as below in next page:

Mode 6 CH42 (5210MHz)



4.6 6dB Bandwidth

VERDICT: PASS

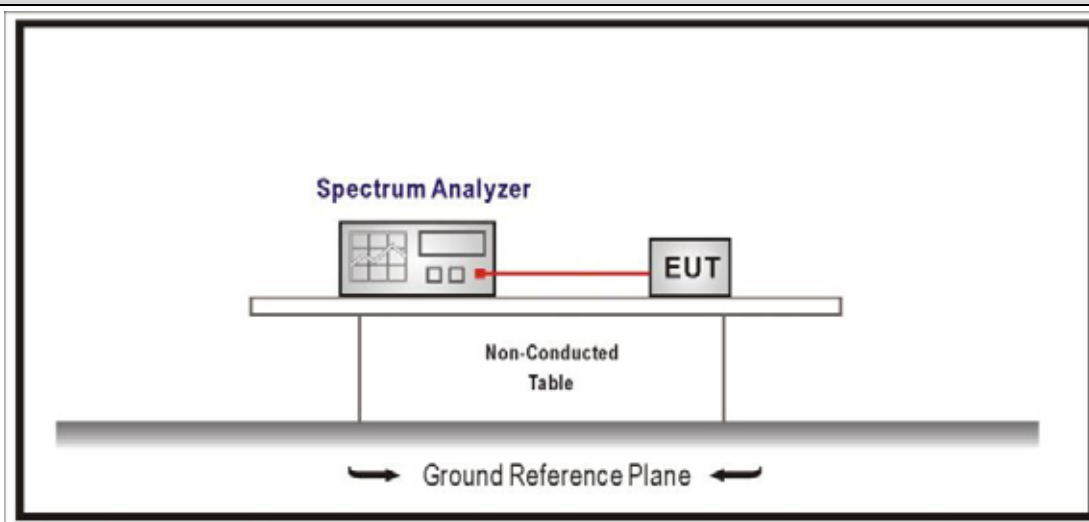
4.6.1 Limit

Standard

FCC Part 15 Subpart E Paragraph 15.407 (e)

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

4.6.2 Test Setup



4.6.3 Test Procedure

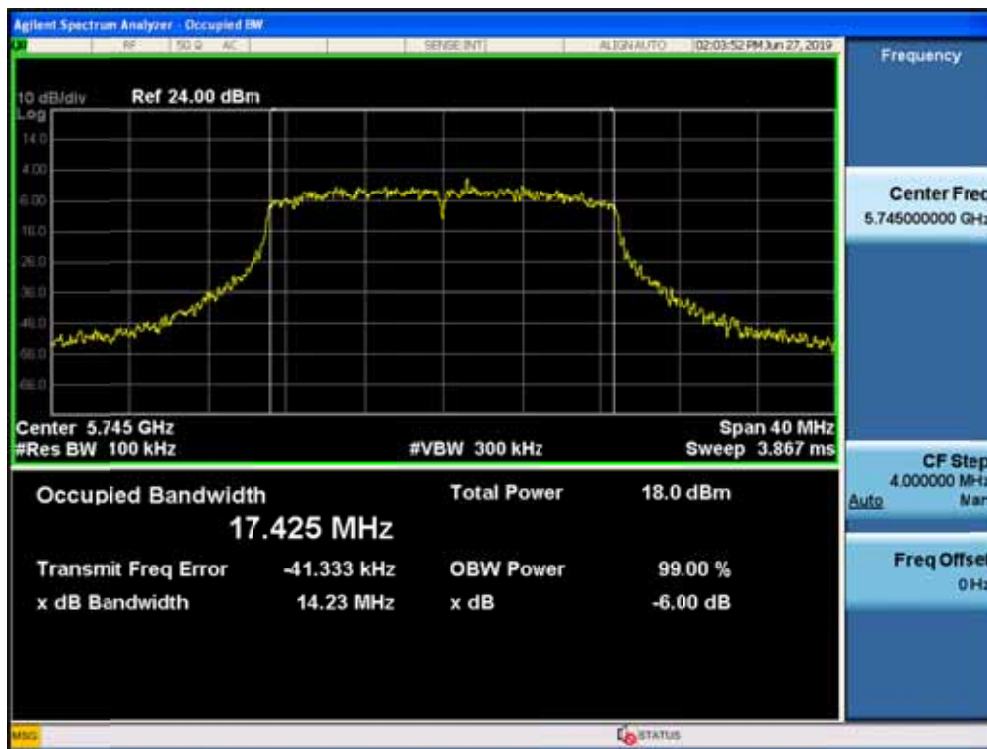
	Reference Rule	Chapter	Description
☒	FCC KDB 789033 D02v02r01	C	Bandwidth Measurement
☐	FCC KDB 789033 D02v02r01	C.1	Option 1
☒	FCC KDB 789033 D02v02r01	C.2	Option 2

4.6.4 Test Data

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
1	149	5745	16.36	$\geq 500\text{kHz}$	Pass
	157	5785	16.37	$\geq 500\text{kHz}$	Pass
	165	5825	15.70	$\geq 500\text{kHz}$	Pass
2	149	5745	17.04	$\geq 500\text{kHz}$	Pass
	157	5785	17.26	$\geq 500\text{kHz}$	Pass
	165	5825	17.23	$\geq 500\text{kHz}$	Pass
3	151	5755	34.06	$\geq 500\text{kHz}$	Pass
	159	5795	35.71	$\geq 500\text{kHz}$	Pass
4	149	5745	14.23	$\geq 500\text{kHz}$	Pass
	157	5785	17.43	$\geq 500\text{kHz}$	Pass
	165	5825	16.74	$\geq 500\text{kHz}$	Pass
5	151	5755	34.64	$\geq 500\text{kHz}$	Pass
	159	5795	35.81	$\geq 500\text{kHz}$	Pass
6	155	5775	71.59	$\geq 500\text{kHz}$	Pass

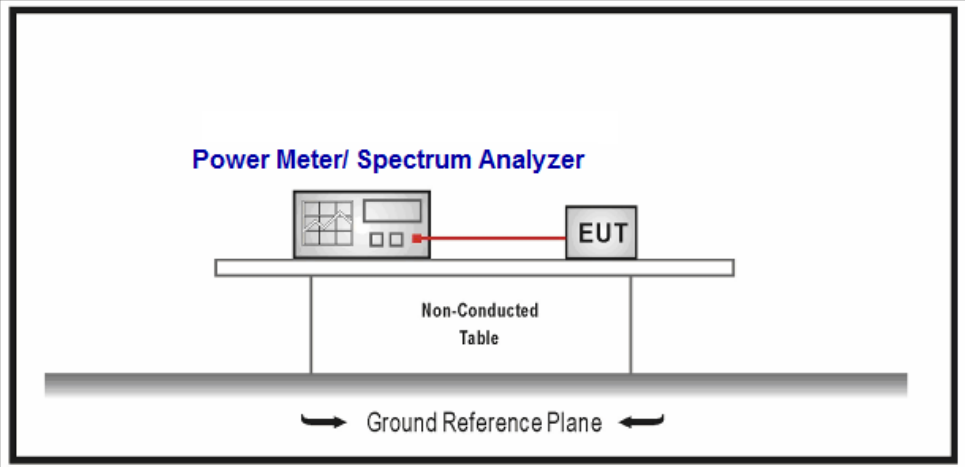
Note : The worst case of Occupied Bandwidth as below in next page:

Mode 4 CH149 (5745MHz)



4.7 Fundamental emission output power	VERDICT: PASS
---------------------------------------	---------------

4.7.1 Limit	
Standard	FCC Part 15 Subpart E Paragraph 15.407 (a) (1)(2)(3)

4.7.2 Test Setup	
	

4.7.3 Test Procedure					
	References Rule			Chapter	Description
☒	ANSI C63.10			12.3	Maximum conducted output power
	☒	ANSI C63.10		12.3.2	Maximum conducted output power measurement using a spectrum analyzer (SA) or EMI receiver
		☐	ANSI C63.10	12.3.2.2	Method SA-1
		☐	ANSI C63.10	12.3.2.3	Method SA-1A (alternative)
		☒	ANSI C63.10	12.3.2.4	Method SA-2
		☐	ANSI C63.10	12.3.2.5	Method SA-2A (alternative)
		☐	ANSI C63.10	12.3.2.6	Method SA-3
		☐	ANSI C63.10	12.3.2.7	Method SA-3A (alternative)
	☒	ANSI C63.10		12.3.3	Maximum conducted output power using a power meter
		☐	ANSI C63.10	12.3.3.1	Method PM
		☒	ANSI C63.10	12.3.3.2	Method PM-G

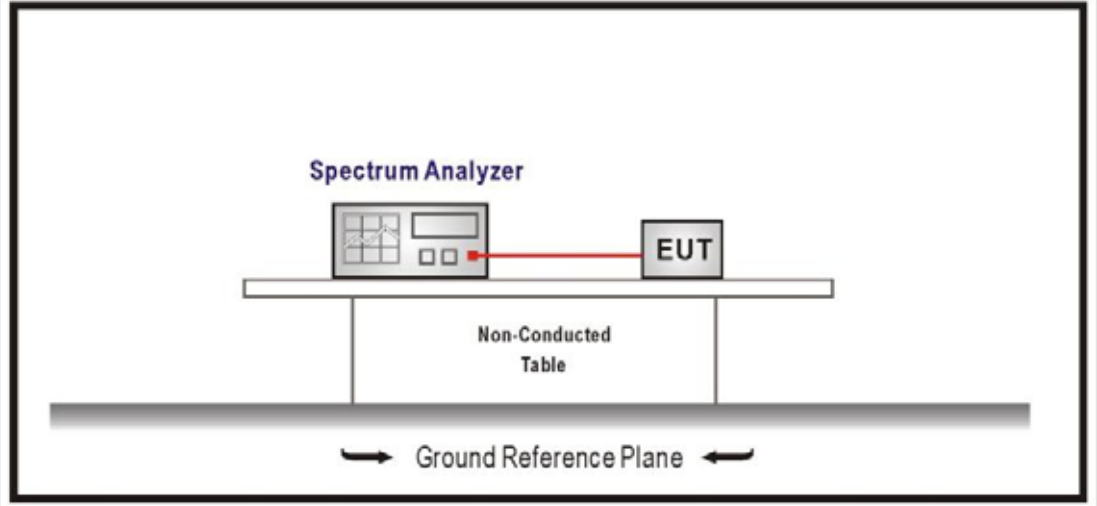
4.7.4 Test Data

Mode	Channel	Test Frequency (MHz)	Power Output (dBm)	Limit (dBm)	Result
1	36	5180	15.62	24	Pass
	44	5220	15.81	24	Pass
	48	5240	15.91	24	Pass
	52	5260	14.71	24	Pass
	60	5300	14.58	24	Pass
	64	5320	15.05	24	Pass
	100	5500	17.89	24	Pass
	116	5580	17.08	24	Pass
	140	5700	17.45	24	Pass
	149	5745	17.92	30	Pass
	157	5785	17.39	30	Pass
	165	5825	17.06	30	Pass
2	36	5180	15.92	24	Pass
	44	5220	16.04	24	Pass
	48	5240	15.96	24	Pass
	52	5260	14.32	24	Pass
	60	5300	14.3	24	Pass
	64	5320	14.79	24	Pass
	100	5500	17.11	24	Pass
	116	5580	16.74	24	Pass
	140	5700	16.97	24	Pass
	149	5745	18.07	30	Pass
	157	5785	17.53	30	Pass
	165	5825	18.91	30	Pass
3	38	5190	11.53	24	Pass
	46	5230	11.67	24	Pass
	54	5270	13.21	24	Pass
	62	5310	13.64	24	Pass
	102	5510	13.56	24	Pass
	110	5550	12.64	24	Pass
	134	5670	11.49	24	Pass
	151	5755	18.36	30	Pass
	159	5795	19.1	30	Pass
4	36	5180	16.03	24	Pass
	44	5220	16.17	24	Pass
	48	5240	16.08	24	Pass
	52	5260	15.04	24	Pass
	60	5300	15.45	24	Pass
	64	5320	15.62	24	Pass
	100	5500	17.75	24	Pass

	116	5580	16.55	24	Pass
	140	5700	17.17	24	Pass
	149	5745	18.04	30	Pass
	157	5785	17.53	30	Pass
	165	5825	18.9	30	Pass
5	38	5190	11.54	24	Pass
	46	5230	11.63	24	Pass
	54	5270	13.22	24	Pass
	62	5310	13.64	24	Pass
	102	5510	13.54	24	Pass
	110	5550	12.67	24	Pass
	134	5670	11.48	24	Pass
	151	5755	11.41	30	Pass
	159	5795	12.36	30	Pass
6	42	5210	9.56	24	Pass
	58	5290	11.97	24	Pass
	106	5530	10.78	24	Pass
	155	5775	15.02	30	Pass

4.8 Power Density	VERDICT: PASS
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4.8.1 Limit:	
Standard	FCC Part 15 Subpart E Paragraph 15.407 (a) (1)(2)(3)
☒	For the band 5.15-5.25 GHz
☐	Outdoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 17 - (G_{TX} - 6)$
☐	Indoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 17 - (G_{TX} - 6)$
☐	Fixed point-to-point access points: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 23\text{dBi}$, then $P_{out} \leq 17 - (G_{TX} - 23)$
☒	Mobile and portable client devices: the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 11 - (G_{TX} - 6)$
☒	For the 5.25-5.35 GHz:
☒	the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 11 - (G_{TX} - 6)$
☒	For the 5.47-5.725 GHz:
☒	the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 11 - (G_{TX} - 6)$
☒	For the band 5.725-5.85 GHz:
☒	the maximum power spectral density shall not exceed 30 dBm/500KHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 30 - (G_{TX} - 6)$
Note 1: GTX directional gain of transmitting antennas.	
Note 2: Pout is maximum peak conducted output power.	

4.8.2 Test Setup


4.8.3 Test Procedure			
	References Rule	Chapter	Description
☒	ANSI C63.10	12.5	Peak power spectral density
☒	FCC KDB 789033 D02v02r01	F	Maximum Power Spectral Density (PSD)

4.8.4 Test Data

Mode 1: Transmit by 802.11a

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Total Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
CH36	5180	4.823	0.05	4.873	11	Pass
CH44	5220	5.085	0.05	5.135	11	Pass
CH48	5240	4.667	0.05	4.717	11	Pass
CH52	5260	4.029	0.05	4.079	11	Pass
CH60	5300	3.892	0.05	3.942	11	Pass
CH64	5320	4.410	0.05	4.460	11	Pass
CH100	5500	7.491	0.05	7.541	11	Pass
CH116	5580	6.080	0.05	6.130	11	Pass
CH140	5700	6.808	0.05	6.858	11	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty Factor (dB)	Total Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
CH149	5745	4.922	0.05	4.972	30	Pass
CH157	5785	4.242	0.05	4.292	30	Pass
CH165	5825	5.314	0.05	5.364	30	Pass

Mode 2: Transmit by 802.11n(20MHz)						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Total Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
CH36	5180	5.446	0.03	5.476	11	Pass
CH44	5220	5.291	0.03	5.321	11	Pass
CH48	5240	5.209	0.03	5.239	11	Pass
CH52	5260	4.007	0.03	4.037	11	Pass
CH60	5300	4.068	0.03	4.098	11	Pass
CH64	5320	4.204	0.03	4.234	11	Pass
CH100	5500	7.081	0.03	7.111	11	Pass
CH116	5580	5.715	0.03	5.745	11	Pass
CH140	5700	6.595	0.03	6.625	11	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty Factor (dB)	Total Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
CH149	5745	4.347	0.03	4.377	30	Pass
CH157	5785	4.242	0.03	4.272	30	Pass
CH165	5825	5.373	0.03	5.403	30	Pass

Mode 3: Transmit by 802.11n(40MHz)						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Total Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
CH38	5190	-1.971	0.08	-1.891	11	Pass
CH46	5230	-2.266	0.08	-2.186	11	Pass
CH54	5270	-0.582	0.08	-0.502	11	Pass
CH62	5310	-0.307	0.08	-0.227	11	Pass
CH102	5510	0.055	0.08	0.135	11	Pass
CH110	5550	-1.095	0.08	-1.015	11	Pass
CH134	5670	-2.266	0.08	-2.186	11	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty Factor (dB)	Total Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
CH151	5755	1.607	0.08	1.687	30	Pass
CH159	5795	2.602	0.08	2.682	30	Pass

Mode 4: Transmit by 802.11ac(20MHz)						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Total Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
CH36	5180	5.426	0.04	5.466	11	Pass
CH44	5220	5.706	0.04	5.746	11	Pass
CH48	5240	5.616	0.04	5.656	11	Pass
CH52	5260	4.554	0.04	4.594	11	Pass
CH60	5300	5.047	0.04	5.087	11	Pass
CH64	5320	4.705	0.04	4.745	11	Pass
CH100	5500	7.019	0.04	7.059	11	Pass
CH116	5580	5.674	0.04	5.714	11	Pass
CH140	5700	6.209	0.04	6.249	11	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty Factor (dB)	Total Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
CH149	5745	4.853	0.04	4.893	30	Pass
CH157	5785	4.219	0.04	4.259	30	Pass
CH165	5825	5.991	0.04	6.031	30	Pass

Mode 5: Transmit by 802.11ac(40MHz)						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Total Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
CH38	5190	-2.326	0.11	-2.216	11	Pass
CH46	5230	-2.613	0.11	-2.503	11	Pass
CH54	5270	-0.900	0.11	-0.790	11	Pass
CH62	5310	-0.515	0.11	-0.405	11	Pass
CH102	5510	-0.515	0.11	-0.405	11	Pass
CH110	5550	-1.275	0.11	-1.165	11	Pass
CH134	5670	-2.626	0.11	-2.516	11	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty Factor (dB)	Total Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
CH151	5755	1.789	0.11	1.899	30	Pass
CH159	5795	2.366	0.11	2.476	30	Pass

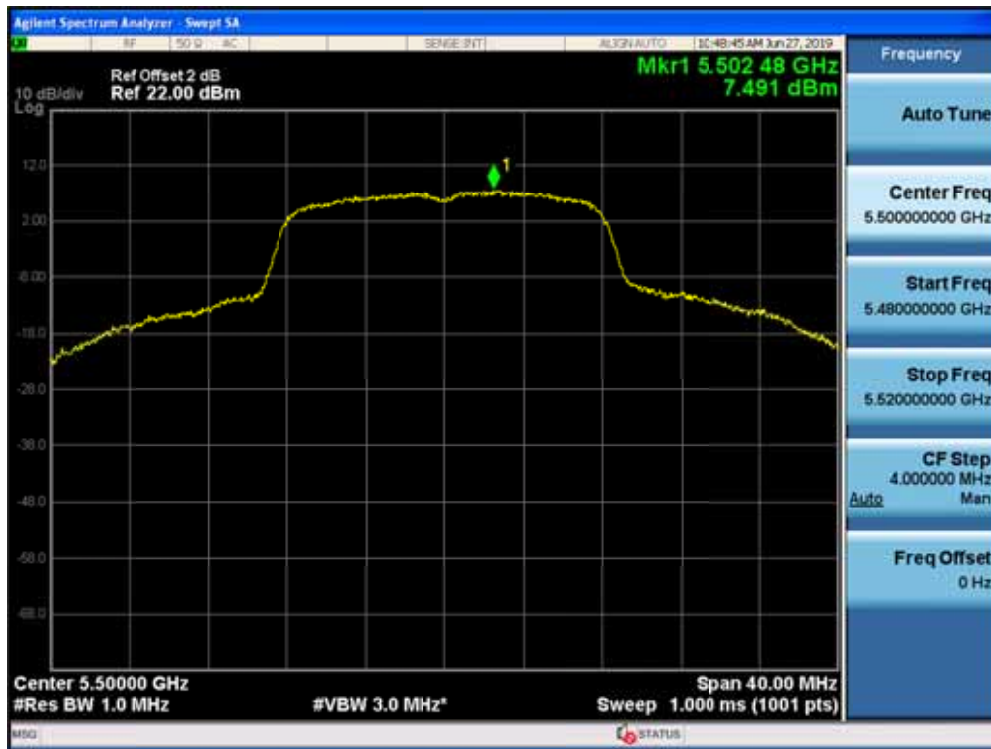
Mode 6: Transmit by 802.11ac(80MHz)

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Duty Factor (dB)	Total Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
CH42	5210	-7.713	0.17	-7.543	11	Pass
CH58	5290	-4.473	0.17	-4.303	11	Pass
CH106	5530	-5.665	0.17	-5.495	11	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Duty Factor (dB)	Total Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
CH155	5775	-4.947	0.17	-4.777	30	Pass

1: Total Power Spectral Density = Measurement Power Spectral Density + Duty Factor

The worst case as below:

Mode 1 CH100 (5500MHz)

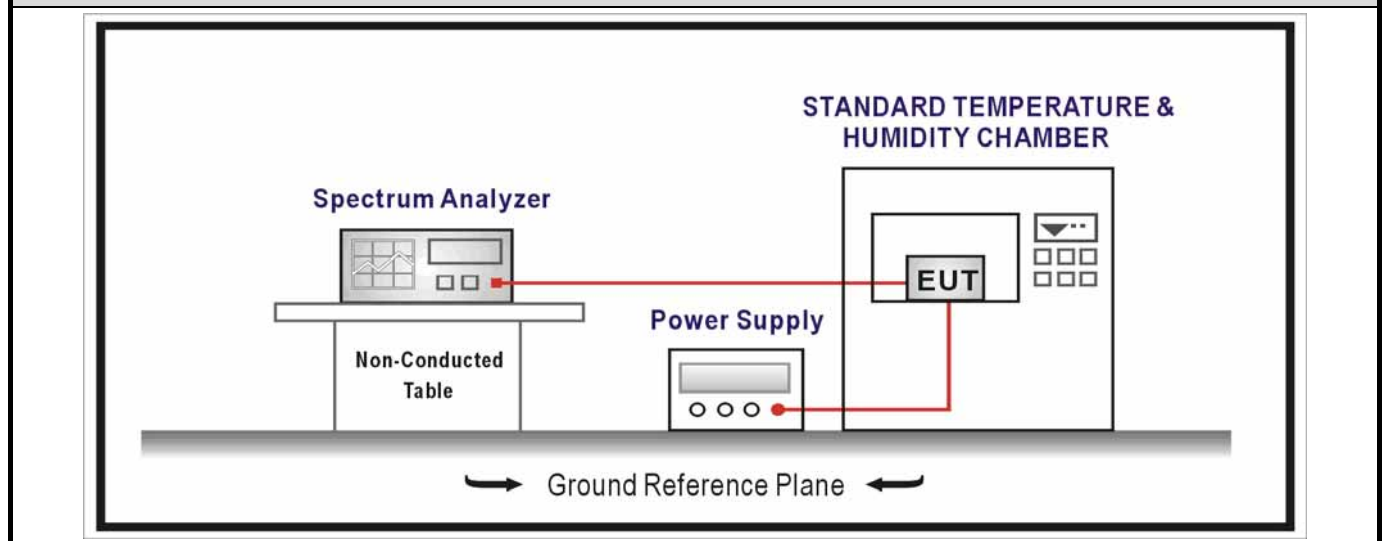


4.9 Frequency Stability	VERDICT: PASS
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4.9.1 Limit:

Standard	IEEE Std. 802.11n-2009
☒	The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band.

4.9.2 Test Setup



4.9.3 Test Procedure

	References Rule	Chapter	Description
☒	ANSI C63.10	6.8	Frequency stability tests
☒	ANSI C63.10	6.8.1	Frequency stability with respect to ambient temperature
☒	ANSI C63.10	6.8.2	Frequency stability when varying supply voltage

4.9.4 Test Data

Frequency Stability under Temperature at 0min

Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (ppm)
-30	5220.000	210	±20
-20	5220.000	-40	±20
-10	5220.000	-148	±20
0	5220.000	-106	±20
10	5220.000	190	±20
20	5220.000	77	±20
30	5220.000	62	±20
40	5220.000	192	±20
50	5220.000	132	±20

Frequency Stability under Temperature at 2min

Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (ppm)
-30	5220.000	244	±20
-20	5220.000	192	±20
-10	5220.000	41	±20
0	5220.000	16	±20
10	5220.000	168	±20
20	5220.000	16	±20
30	5220.000	-113	±20
40	5220.000	105	±20
50	5220.000	231	±20

Frequency Stability under Temperature at 5min			
Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (ppm)
-30	5220.000	54	±20
-20	5220.000	202	±20
-10	5220.000	-11	±20
0	5220.000	126	±20
10	5220.000	88	±20
20	5220.000	69	±20
30	5220.000	26	±20
40	5220.000	40	±20
50	5220.000	194	±20
Frequency Stability under Temperature at 10min			
Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (ppm)
-30	5220.000	95	±20
-20	5220.000	33	±20
-10	5220.000	60	±20
0	5220.000	111	±20
10	5220.000	88	±20
20	5220.000	21	±20
30	5220.000	-46	±20
40	5220.000	8	±20
50	5220.000	169	±20
Frequency Stability under Voltage			
AC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (ppm)
102	5220.000	12	±20
120	5220.000	32	±20
138	5220.000	-40	±20

4.10 Antenna Requirement	VERDICT: PASS
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4.10.1 Limit:

Standard	FCC Part 15 Subpart E Paragraph 15.203
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.	

4.10.2 Antenna Connector Construction:

☒	The use of a permanently attached antenna
☐	The antenna use of a unique coupling to the intentional radiator
☐	The use of a nonstandard antenna jack or electrical connector
Please refer to the attached document "Internal Photograph" to show the antenna connector.	



4.11 Test setup photo and EUT Photo	VERDICT: PASS
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Remark: The test setup photo and EUT Photo please see appendix.

_____ The End _____