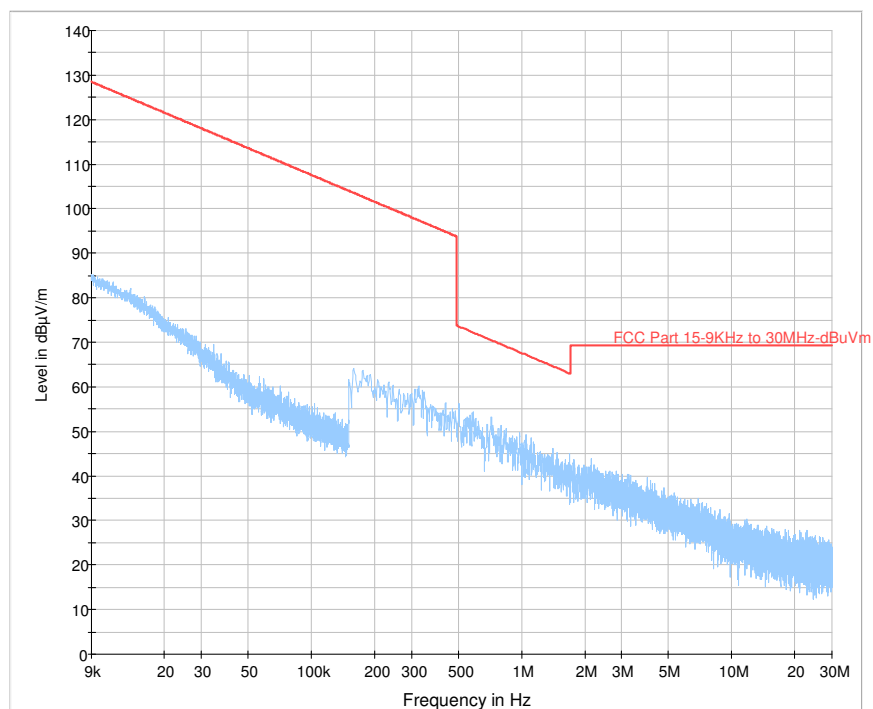


3.6 SPURIOUS RADIATED EMISSIONS

EUT Nomenclature	Wireless Sync Module	Test Report No.	EMC0210-1
Model No.	W-SYNC	Serial No.	SM-RF01
Test Start Date	28 - May-2017	Temperature (°C)	23±2
Test End Date	23 -June-2017	Humidity RH (%)	56 ± 2
Tested By	Magesh .S	Pressure (mbar)	
Input Voltage / Freq	24Vdc		
Operating Mode	Refer Page 5 Operating Modes Table		
Test configuration	Refer Page 5 Test Configuration Table		
Deviation from Std	NA		
Comment	Nil		
TEST FREQUENCY RANGE			
Start Frequency	9KHz	Stop Frequency	10GHz
MAXIMUM OPERATING FREQUENCY			
902MHz to 928MHz			
TEST PARAMETERS			
Antenna Height	1m to 4m	Turntable Rotation	0° to 360°
Applicable standard	ANSI 63.10	Test Method	KDB 558074
Equipment Class	NA	Measurement Distance	3m

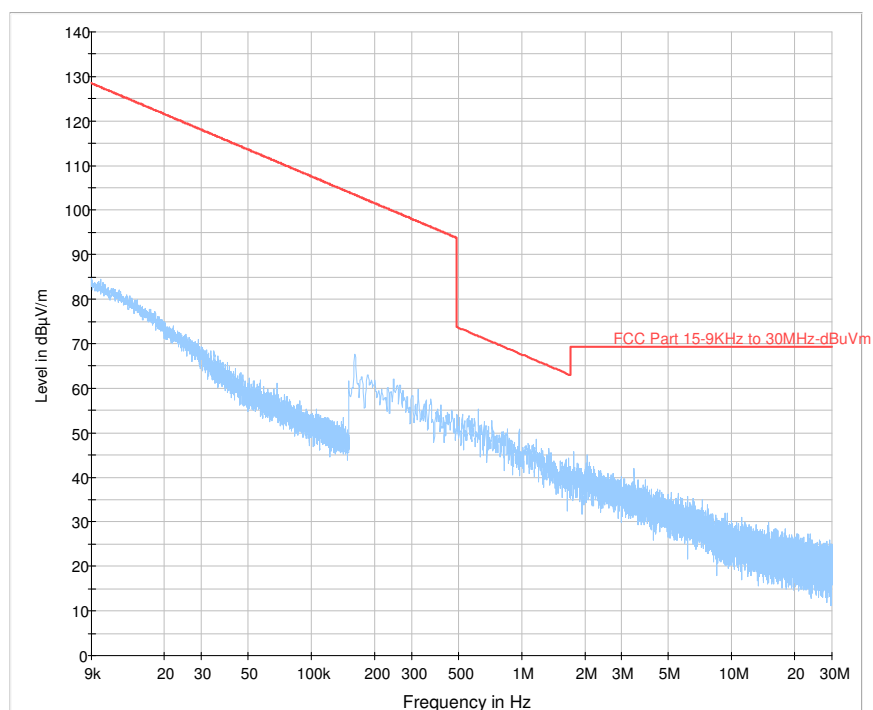
TEST EQUIPMENT					
Y/N	Equipment	Make	Model	Sl. No.	Cal Due Date
Y	EMI Test Receiver	R&S	ESU26	100525	06-Jul-2017
Y	3m Semi Anechoic Chamber	ETS Lindgren	DKE 6X7 DBL.DR	1625	26-Jul-2018
Y	Active Loop Antenna	ETS Lindgren	6507	000103694	02-Jun-2017
Y	Bilog Antenna	ETS Lindgren	HLP3003C	130525	14-Nov-2017
Y	Double Ridge Guide Horn Antenna	ETS Lindgren	3117	00119022	08-Jun-2017
Y	RF cable (9KHz to 1GHz)	ENS Microwave	MNS-MNS	11202012	22-Feb-2018
Y	RF cable (9KHz to 1GHz)	AH System	SAC-18G-06	RE-03	22-Feb-2018
Y	RF cable (1GHz to 18GHz)	Huber + Suhner	Sucoflex 104	MY13472/4	24-Feb-2018
Y	Signal Conditioning unit	R&S	SCU-18	10178	02-May-2018
Y	EMC32 Software	R&S	8.30.0	820-OT101248	NA
Note: Switch ON /OFF the Internal Preamplifier based on carrier level and or noise floor without overloading the receiver					

TEST GRAPHS – 9KHz to 30MHz



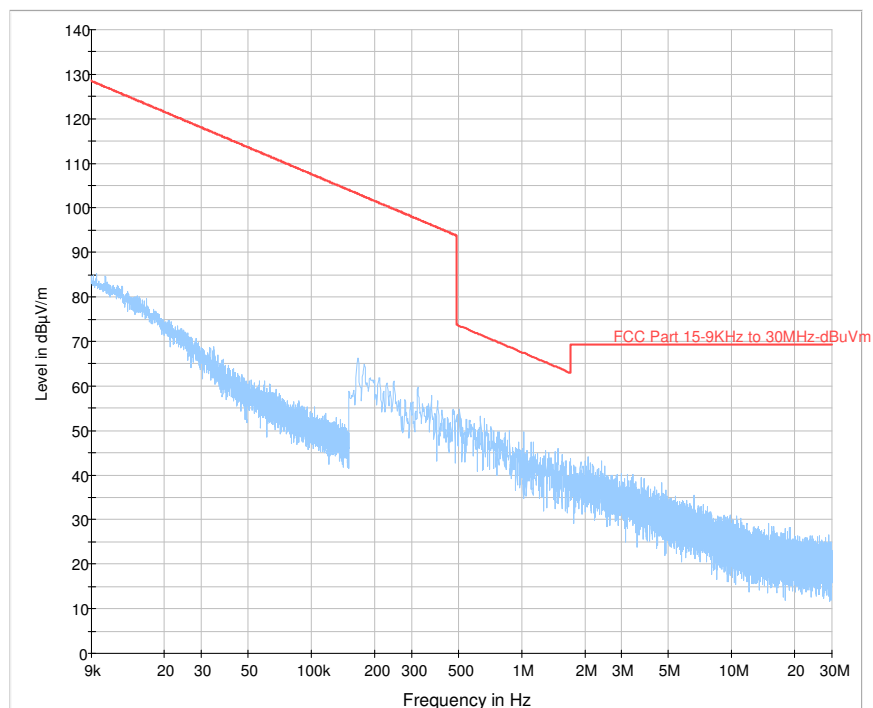
Antenna-1, Channel 1 (902.875 MHz)

Note : Peak Graph - Parallel

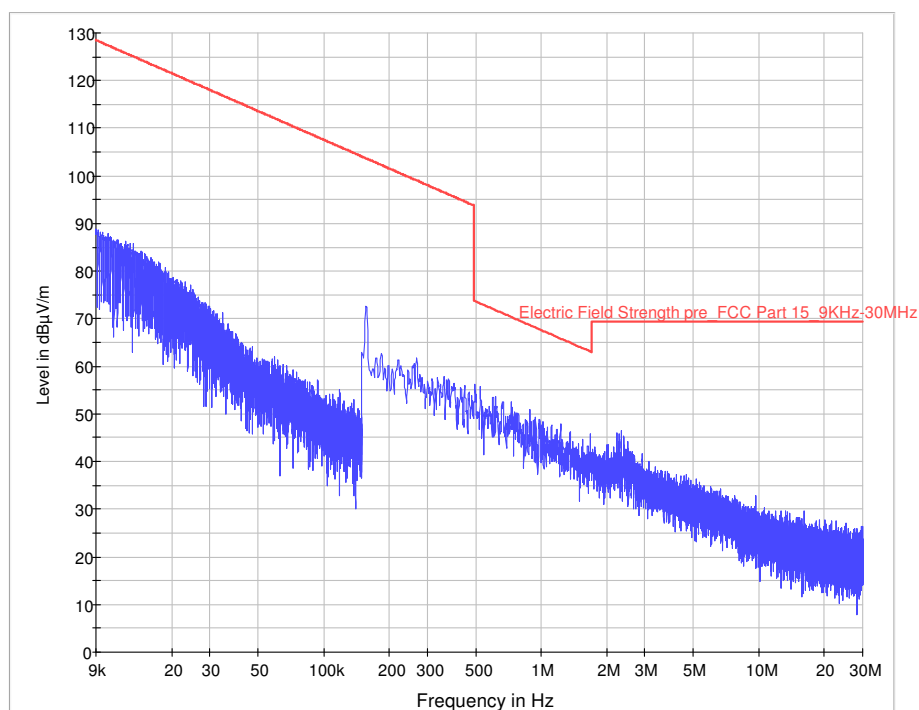


Antenna-1, Channel 1 (902.875 MHz)

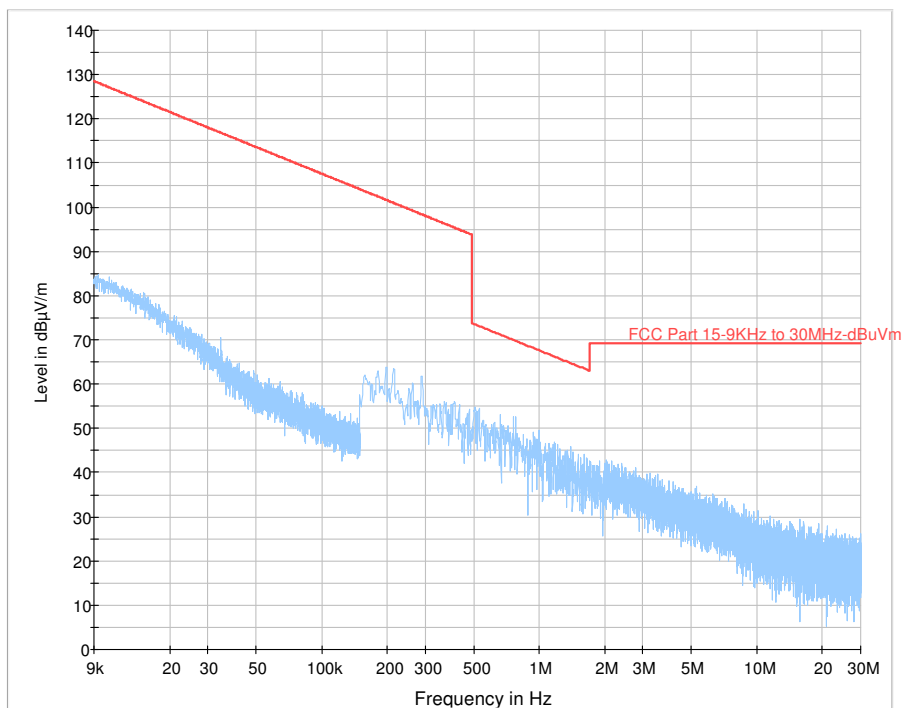
Note : Peak Graph - Perpendicular

**Antenna-1, Channel 2 (908.425 MHz)**

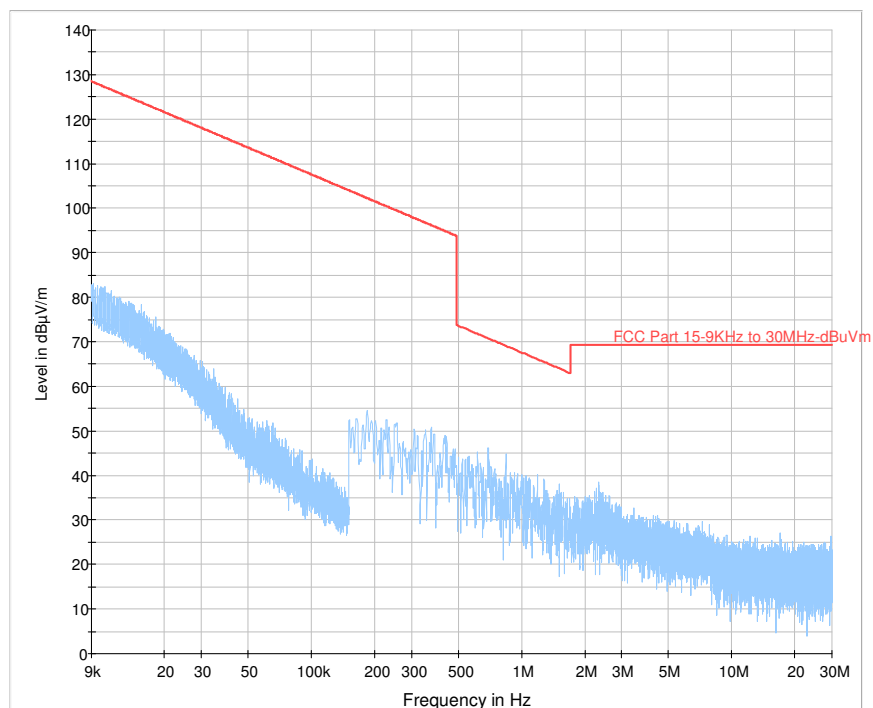
Note : Peak Graph - Parallel

**Antenna-1, Channel 2 (908.425 MHz)**

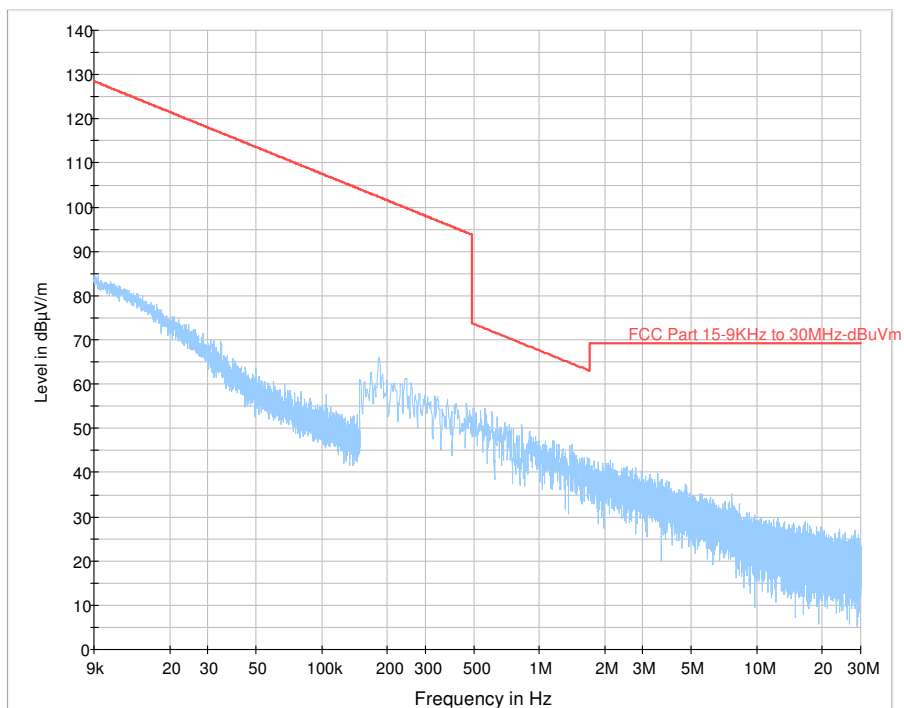
Note : Peak Graph - Perpendicular

**Antenna-1, Channel 3 (914.325 MHz)**

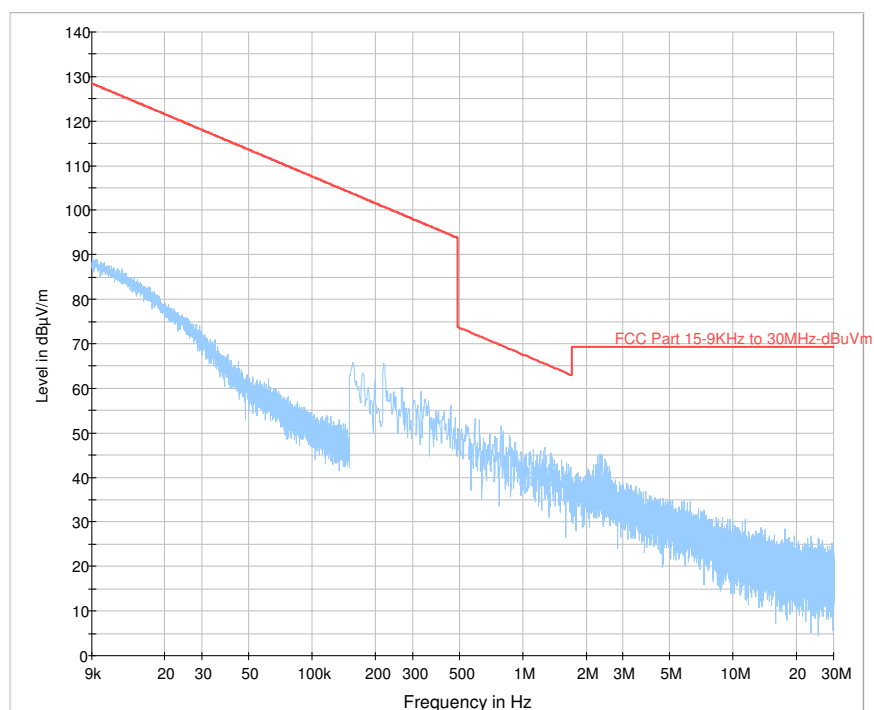
Note : Peak Graph - Parallel

**Antenna-1, Channel 3 (914.325 MHz)**

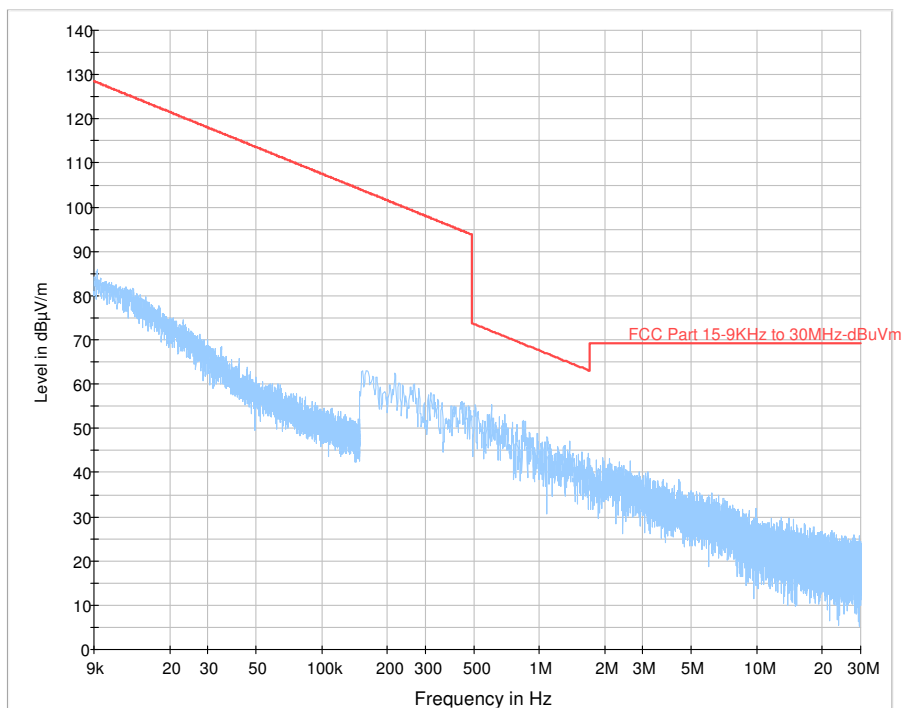
Note : Peak Graph - Perpendicular

**Antenna-1, Channel 4 (915.325 MHz)**

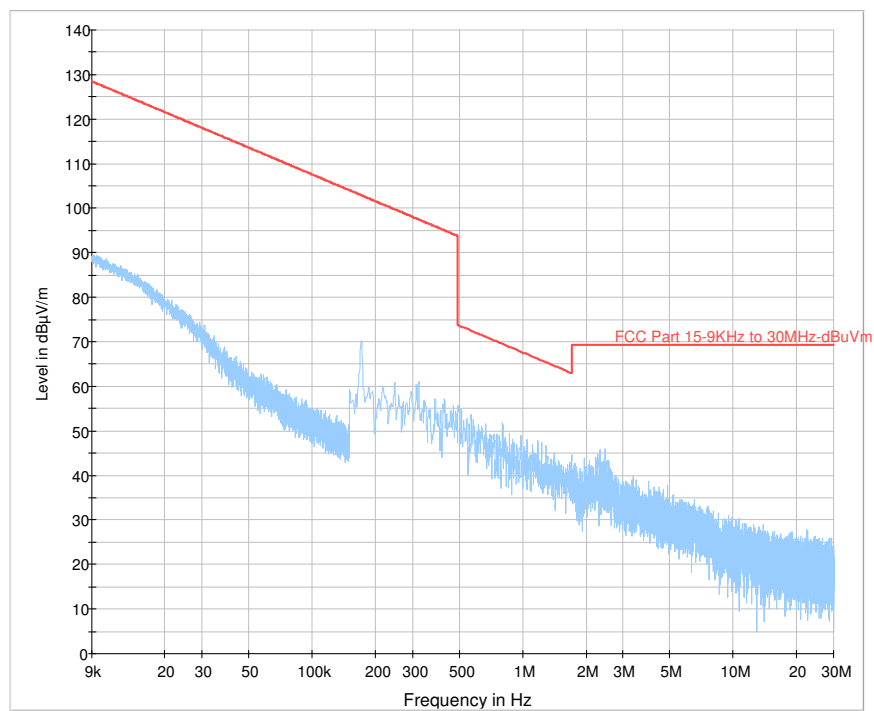
Note : Peak Graph - Parallel

**Antenna-1, Channel 4 (915.325 MHz)**

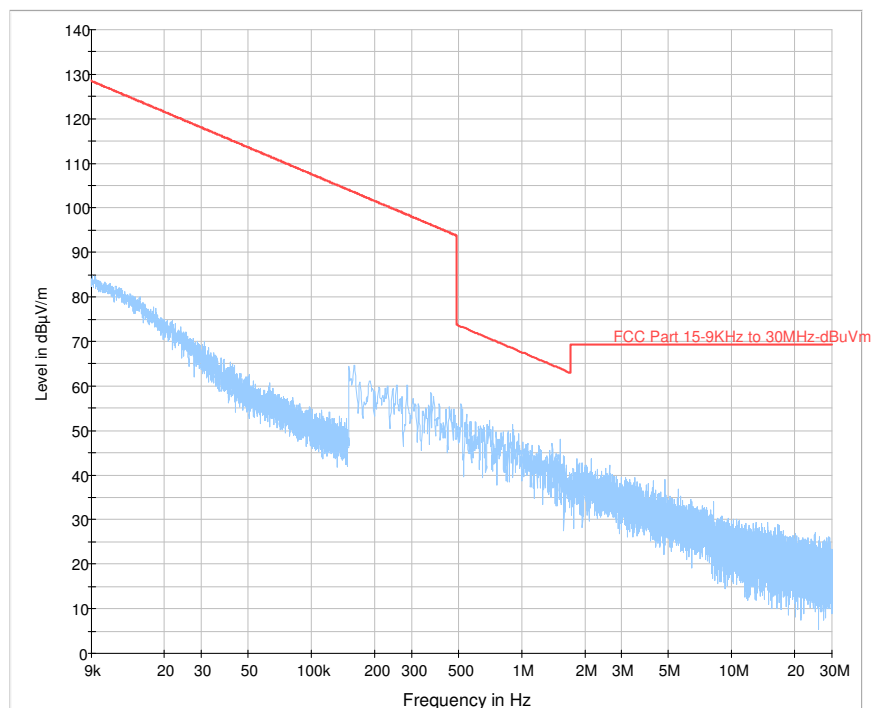
Note : Peak Graph - Perpendicular

**Antenna-1, Channel 5 (921.575 MHz)**

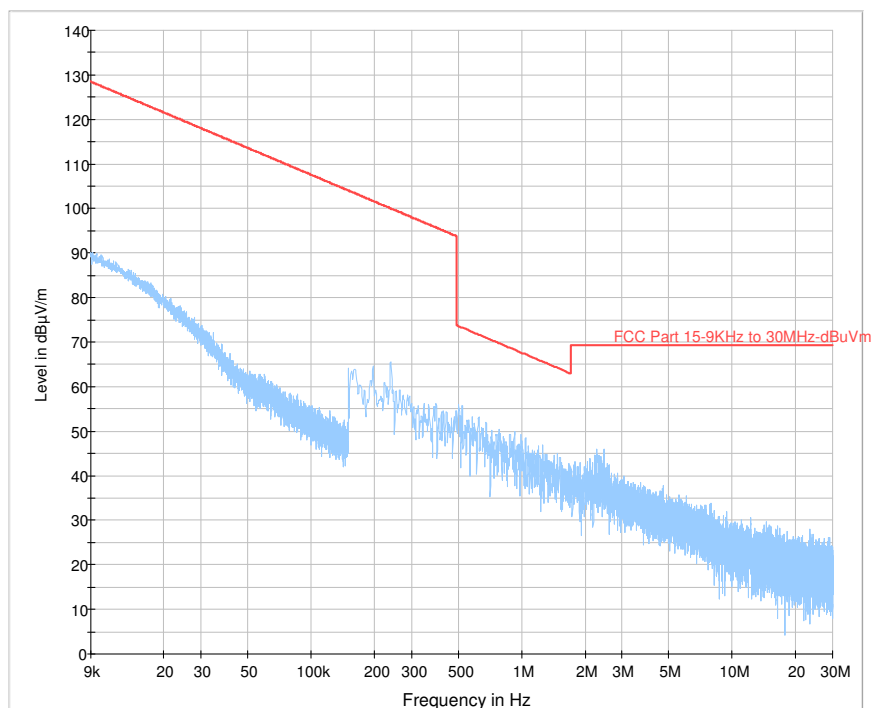
Note : Peak Graph - Parallel

**Antenna-1, Channel 5 (921.575 MHz)**

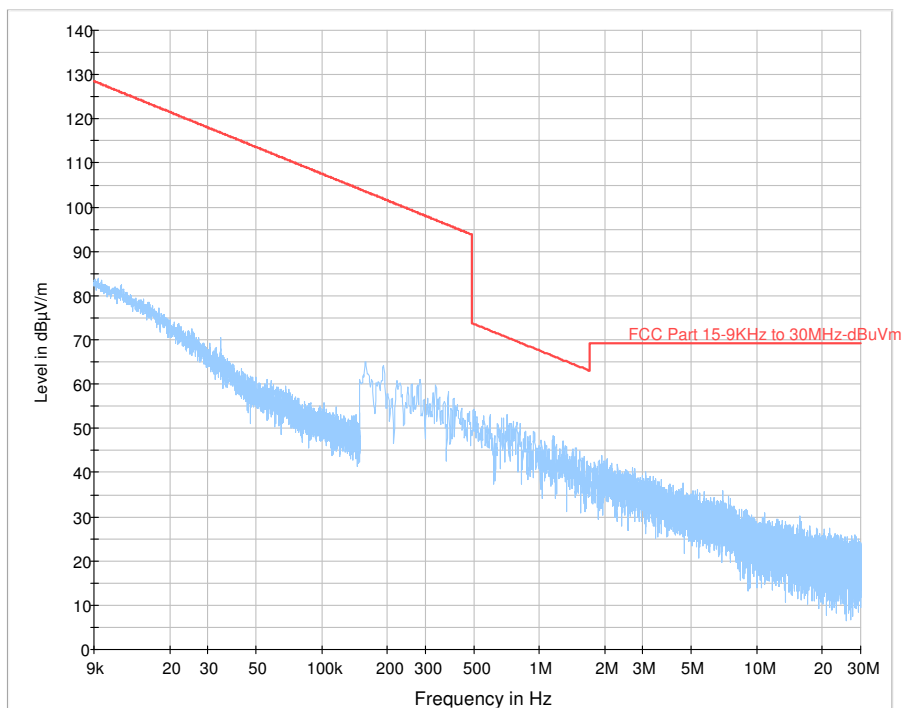
Note : Peak Graph - Perpendicular

**Antenna-1, Channel 6 (927.125MHz)**

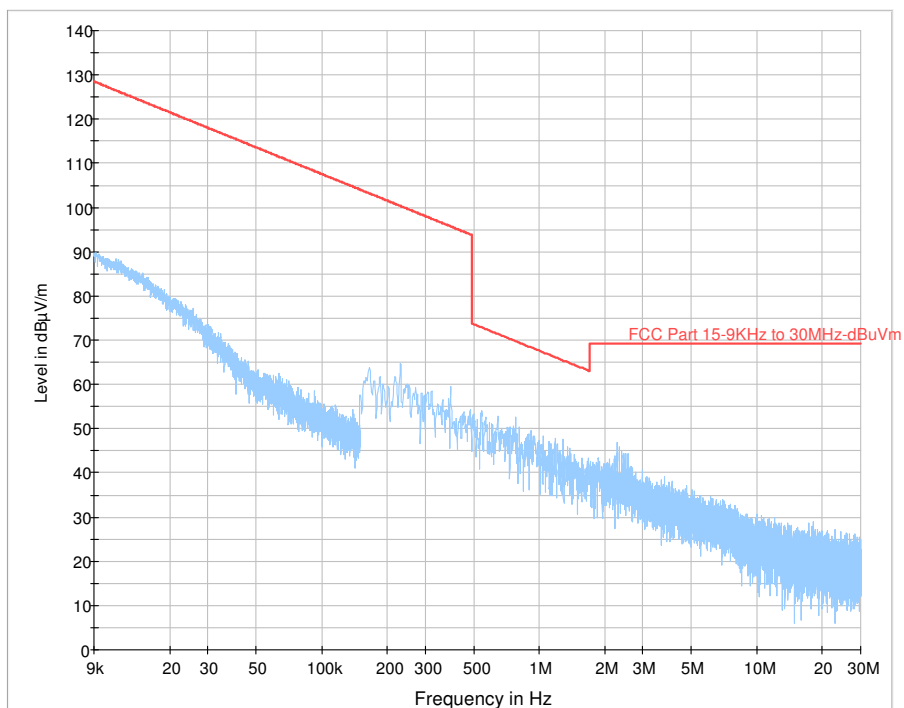
Note : Peak Graph - Parallel

**Antenna-1, Channel 6 (927.125MHz)**

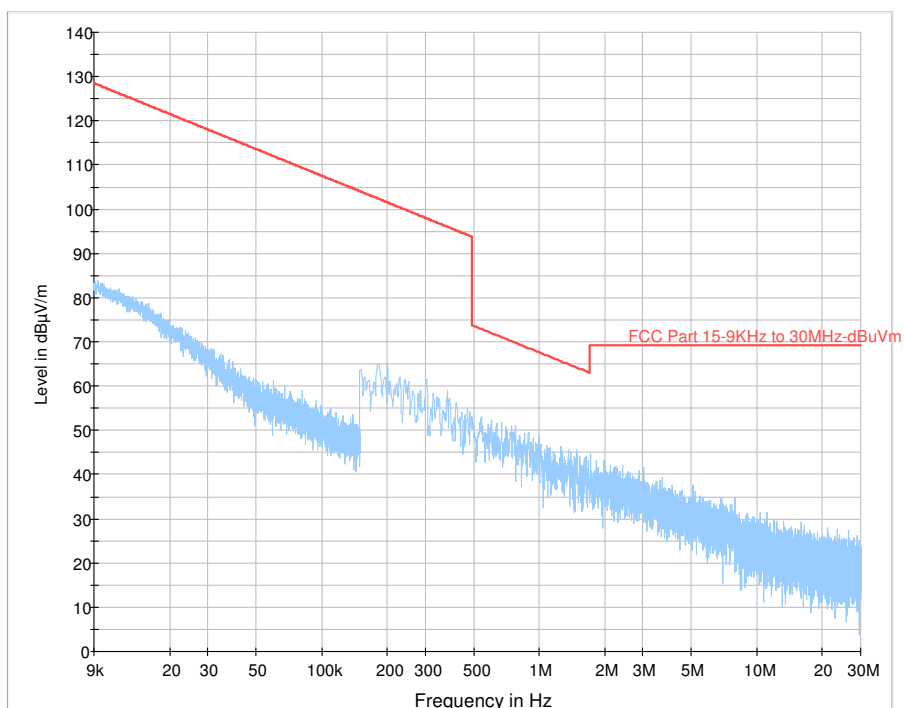
Note : Peak Graph - Perpendicular

**Antenna-2, Channel 1 (902.875 MHz)**

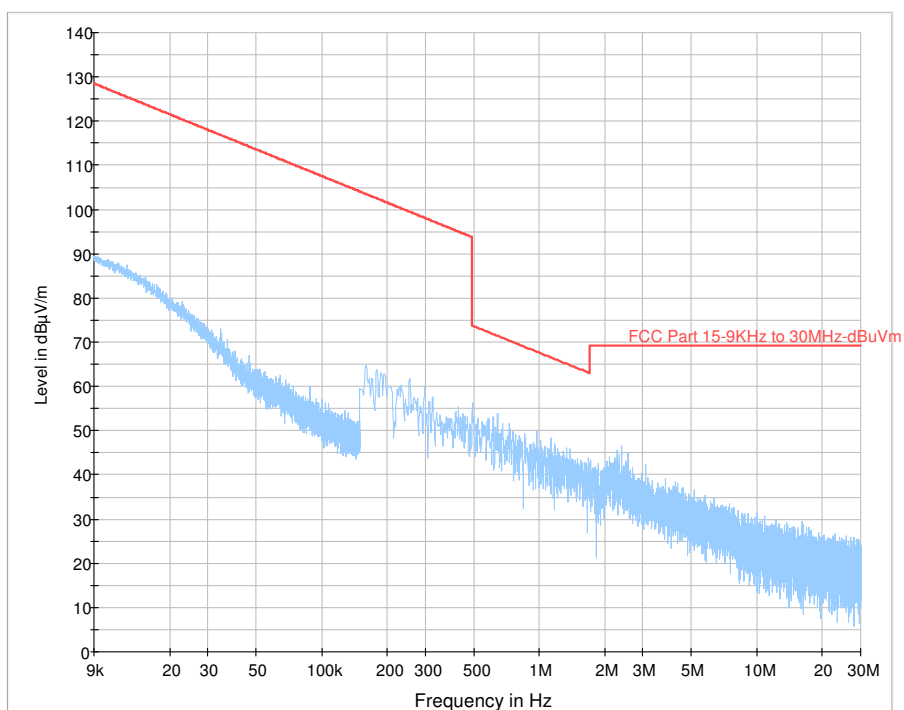
Note : Peak Graph - Parallel

**Antenna-2, Channel 1 (902.875 MHz)**

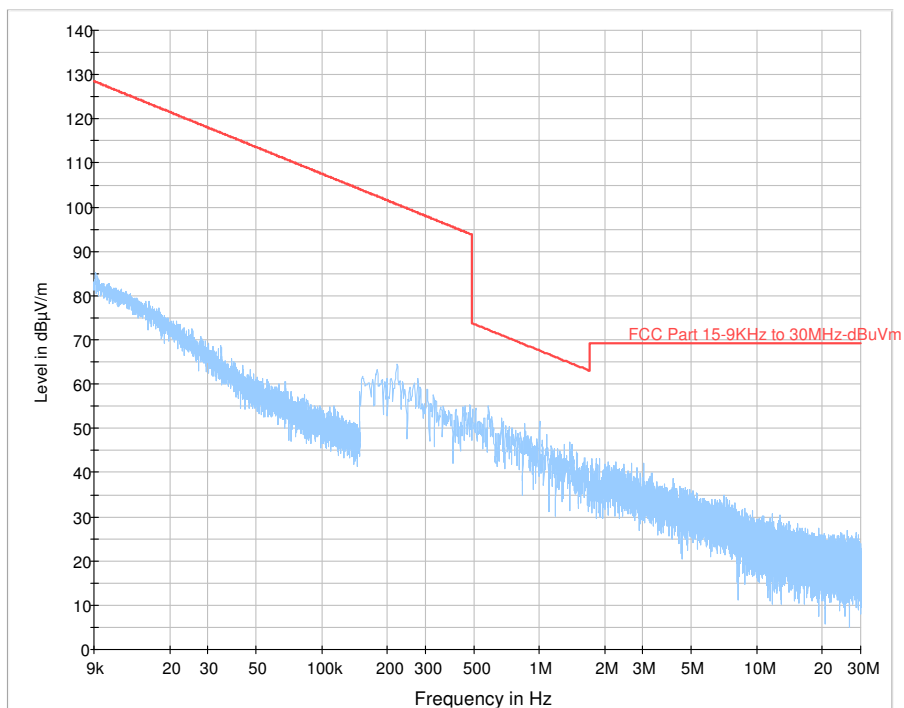
Note : Peak Graph - Perpendicular

**Antenna-2, Channel 2 (908.425 MHz)**

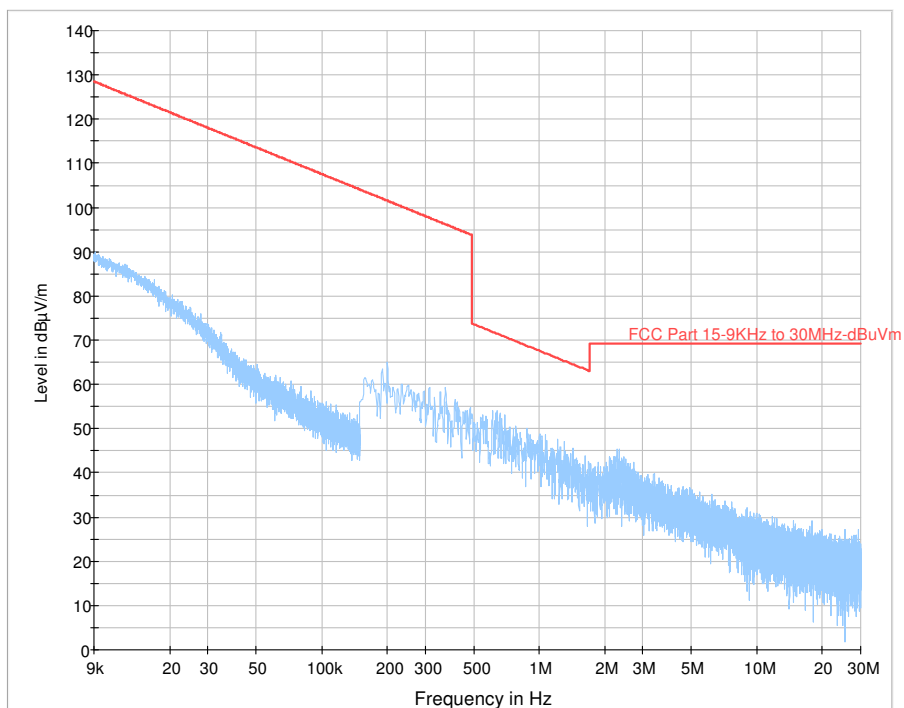
Note : Peak Graph - Parallel

**Antenna-2, Channel 2 (908.425 MHz)**

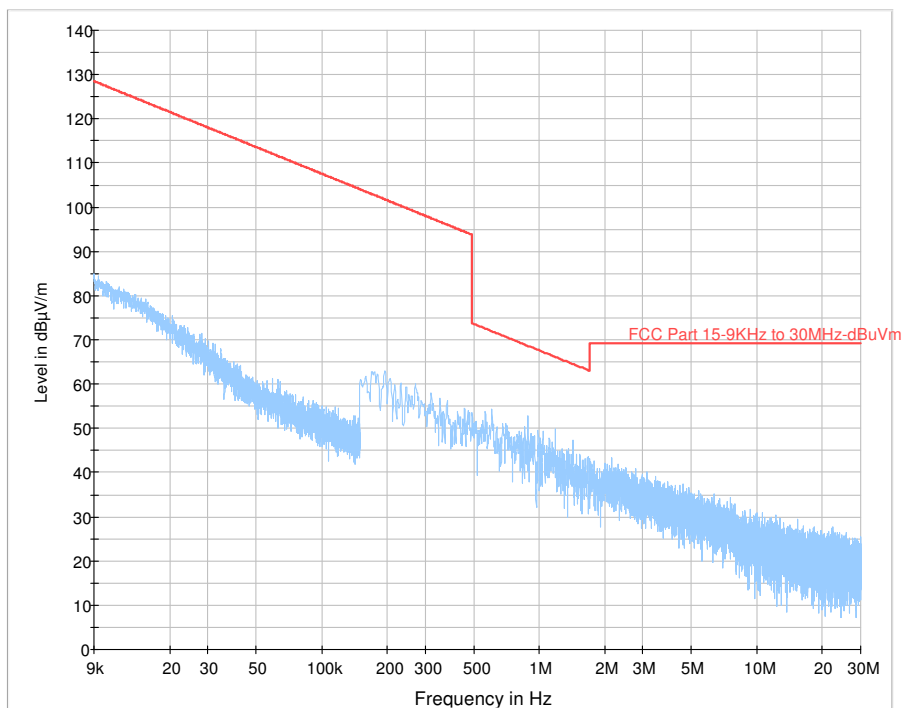
Note : Peak Graph - Perpendicular

**Antenna-2, Channel 3 (914.325 MHz)**

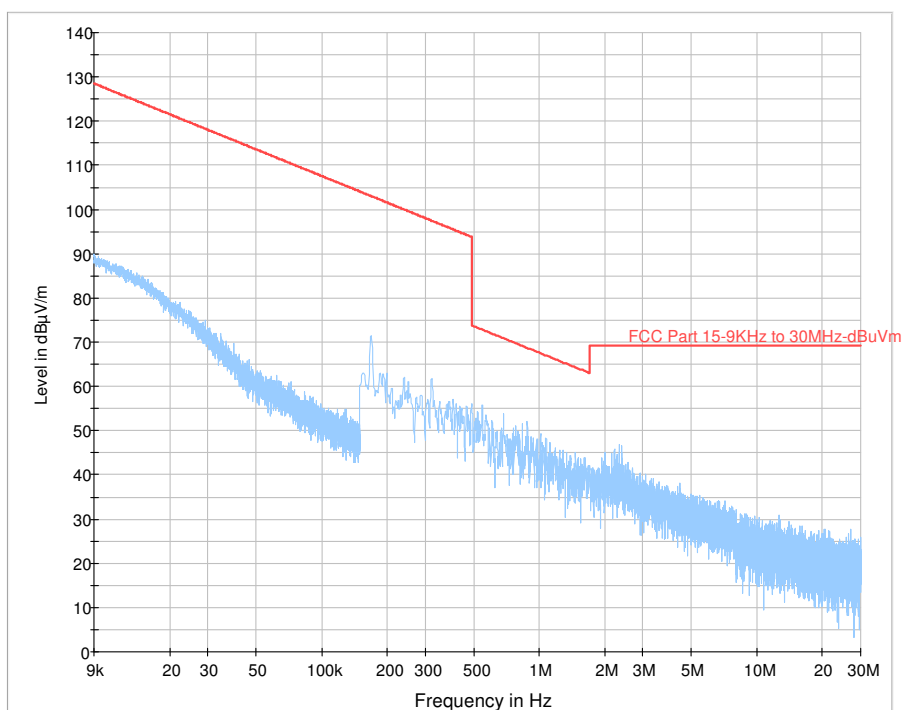
Note : Peak Graph - Parallel

**Antenna-2, Channel 3 (914.325 MHz)**

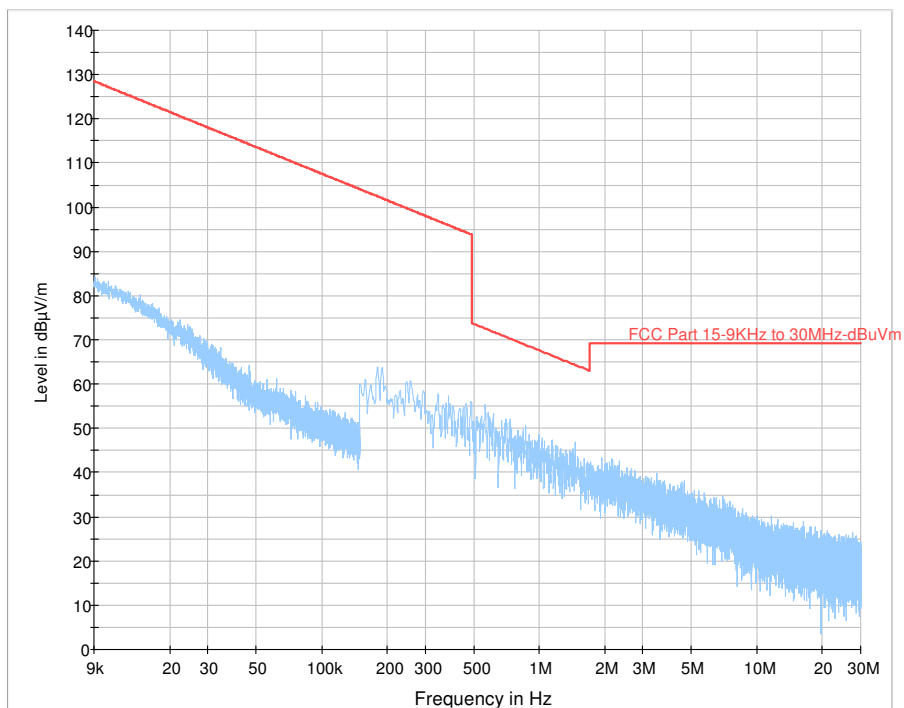
Note : Peak Graph - Perpendicular

**Antenna-2, Channel 4 (915.325 MHz)**

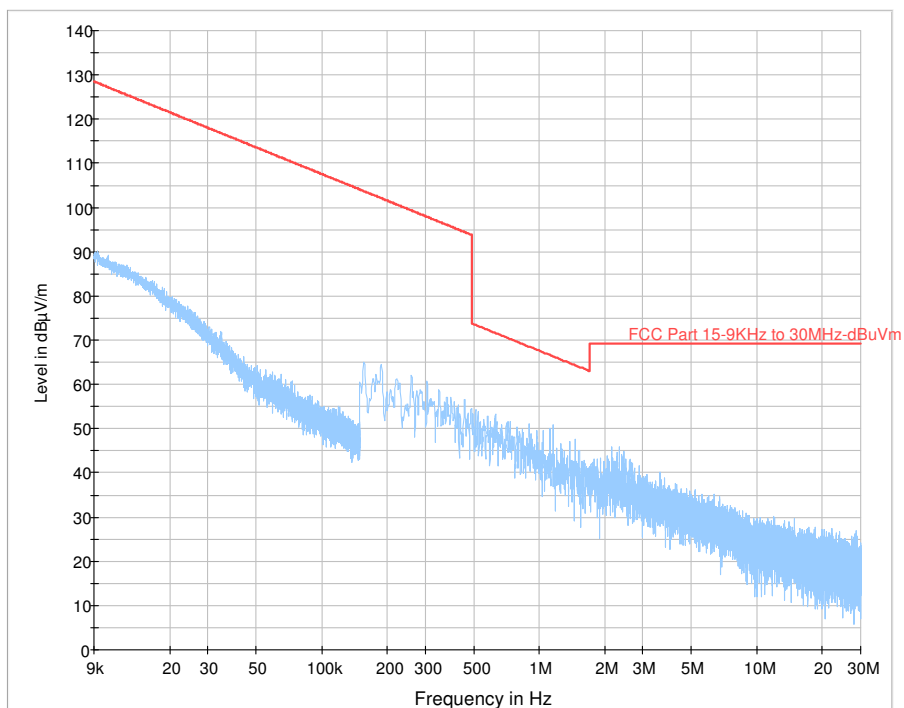
Note : Peak Graph - Parallel

**Antenna-2, Channel 4 (915.325 MHz)**

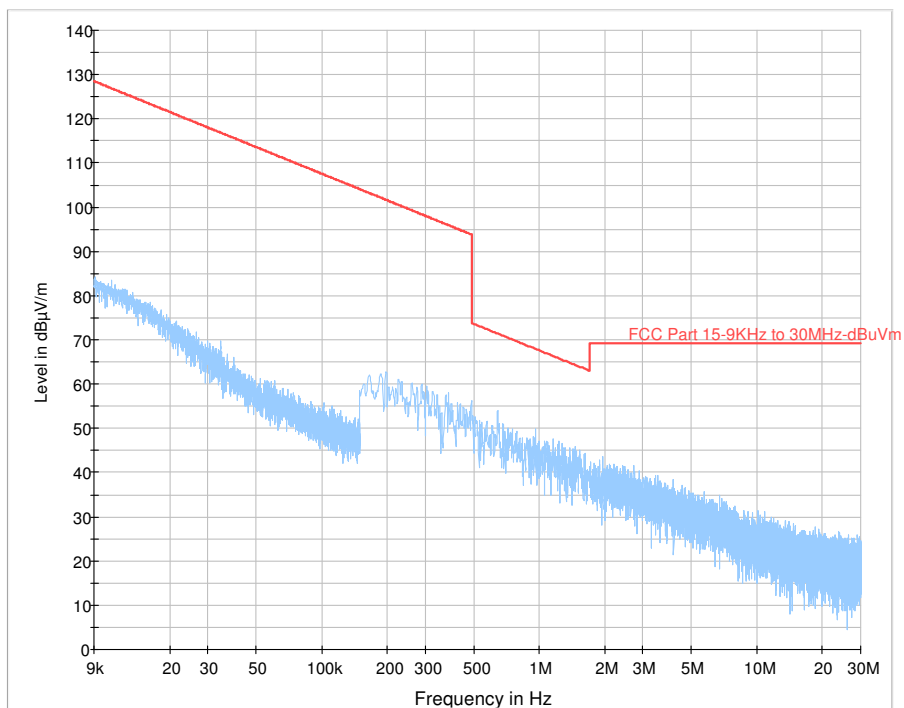
Note : Peak Graph - Perpendicular

**Antenna-2, Channel 5 (921.575 MHz)**

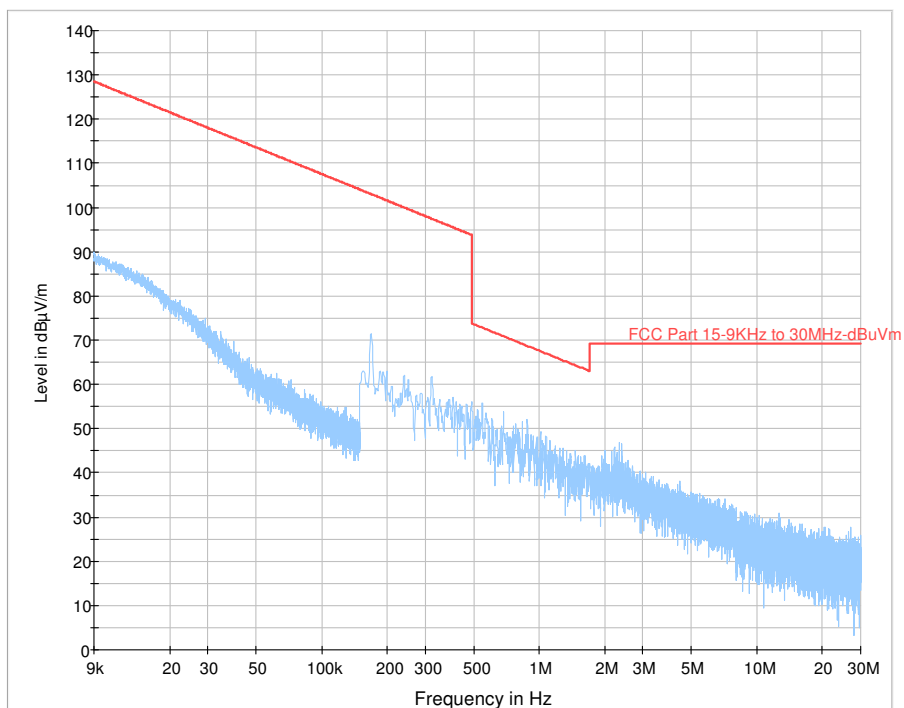
Note : Peak Graph - Parallel

**Antenna-2, Channel 5 (921.575 MHz)**

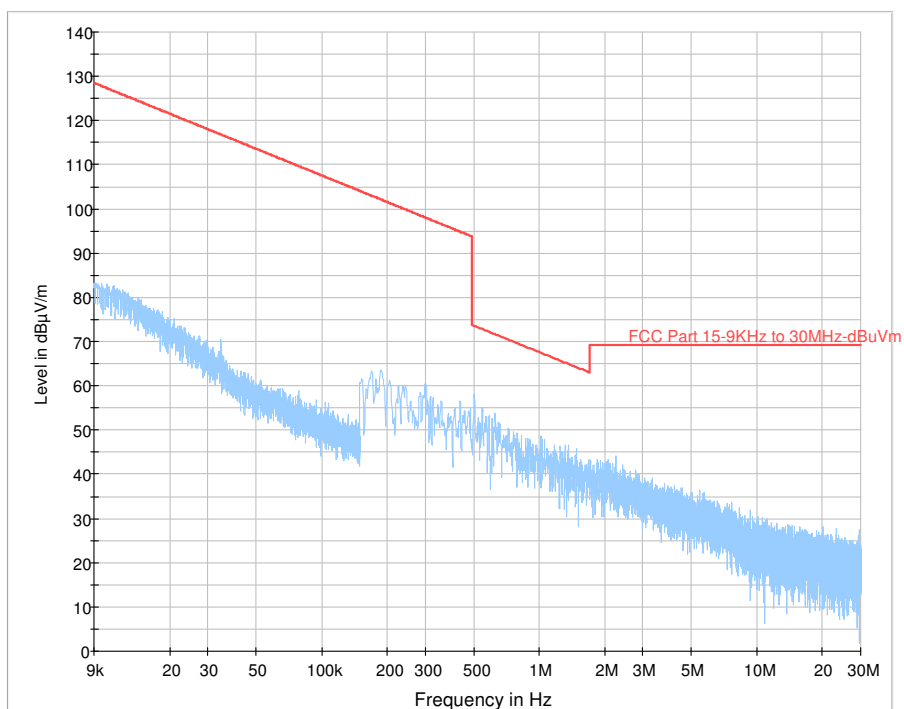
Note : Peak Graph - Perpendicular

**Antenna-2, Channel 6 (927.125MHz)**

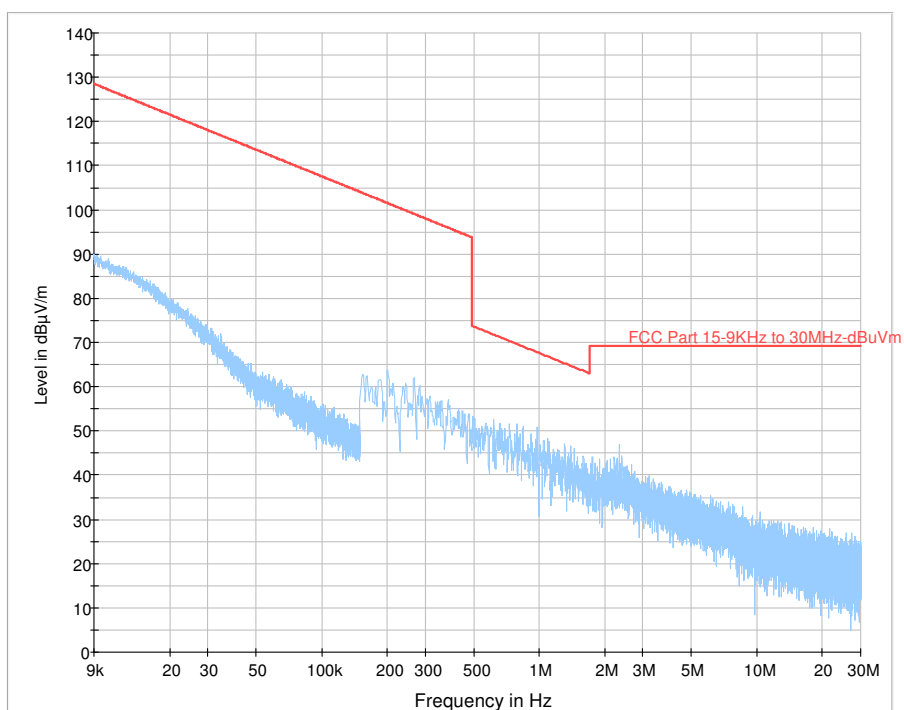
Note : Peak Graph - Parallel

**Antenna-2, Channel 6 (927.125MHz)**

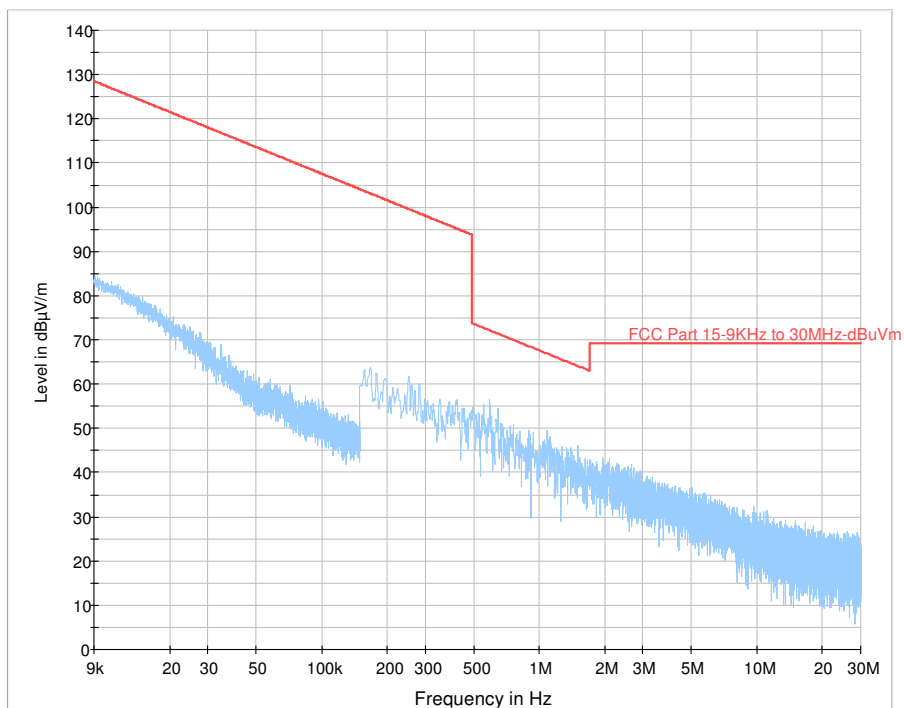
Note : Peak Graph - Perpendicular

**Antenna-3, Channel 1 (902.875 MHz)**

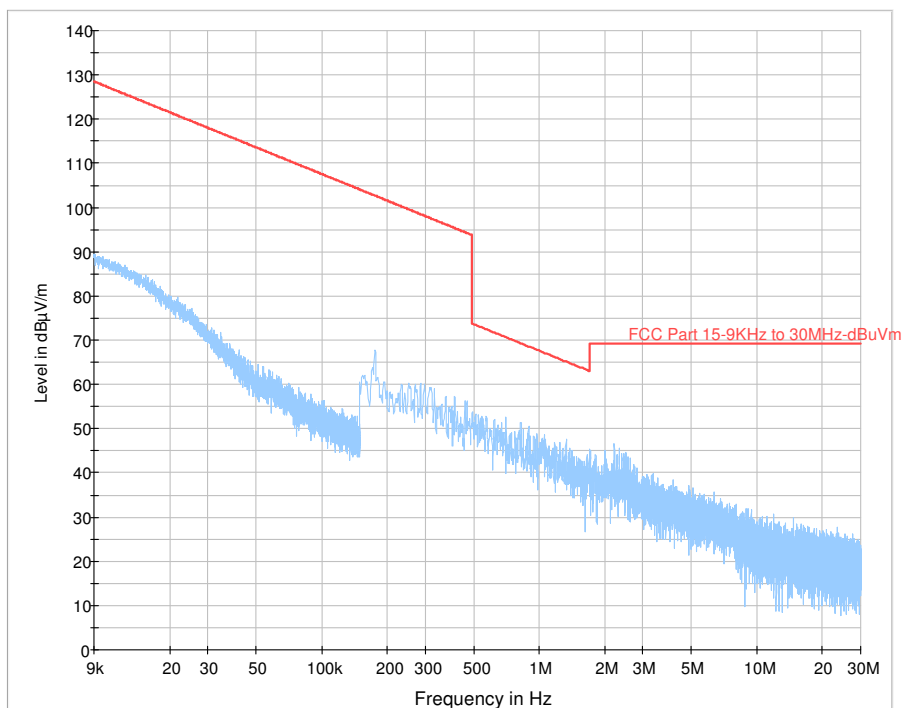
Note : Peak Graph - Parallel

**Antenna-3, Channel 1 (902.875 MHz)**

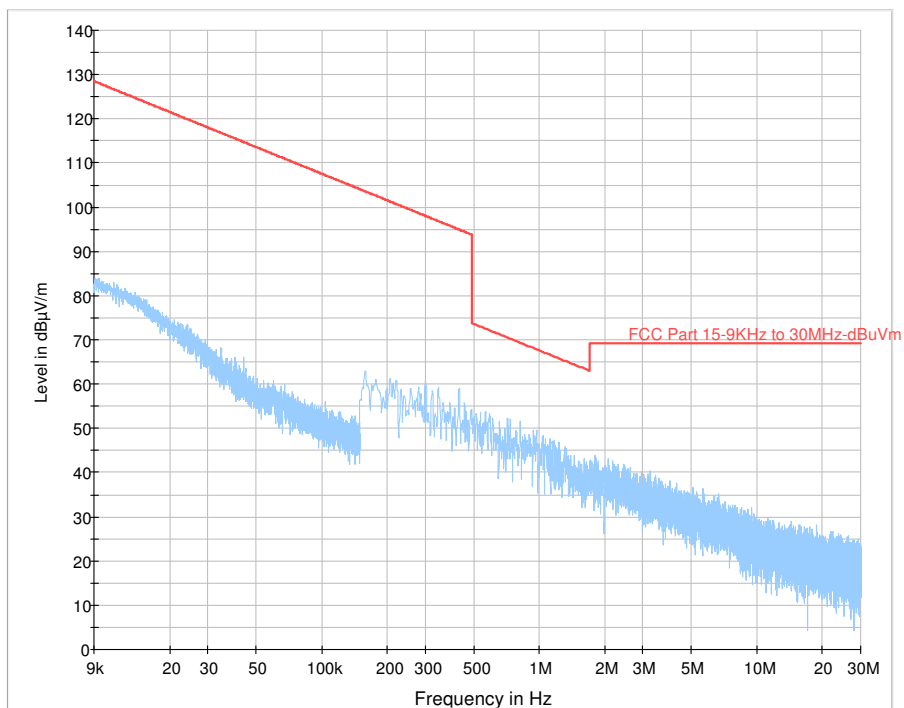
Note : Peak Graph - Perpendicular

**Antenna-3, Channel 2 (908.425 MHz)**

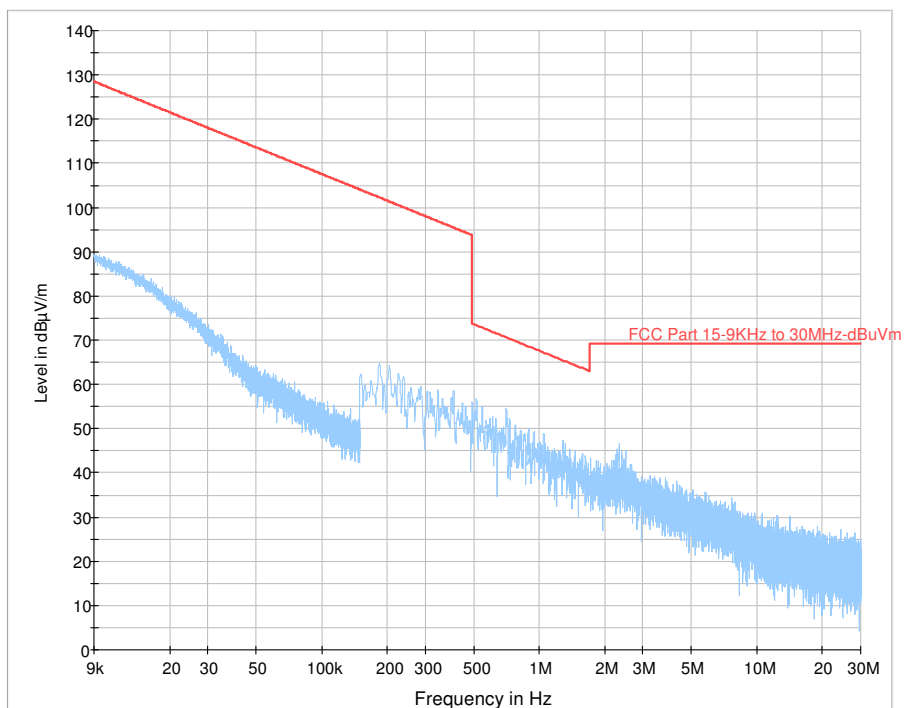
Note : Peak Graph - Parallel

**Antenna-3, Channel 2 (908.425 MHz)**

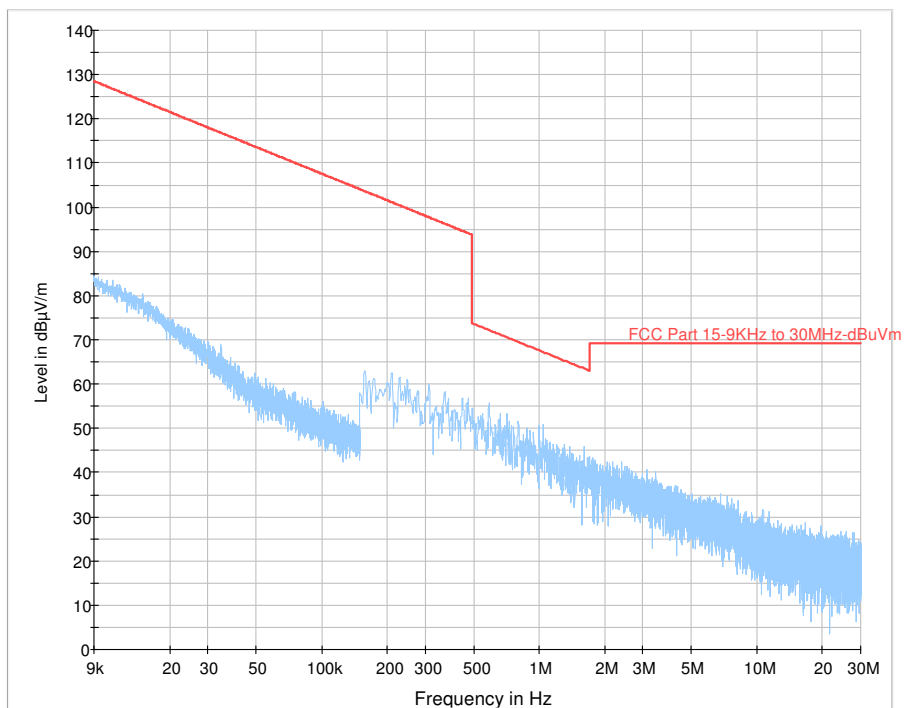
Note : Peak Graph - Perpendicular

**Antenna-3, Channel 3 (914.325 MHz)**

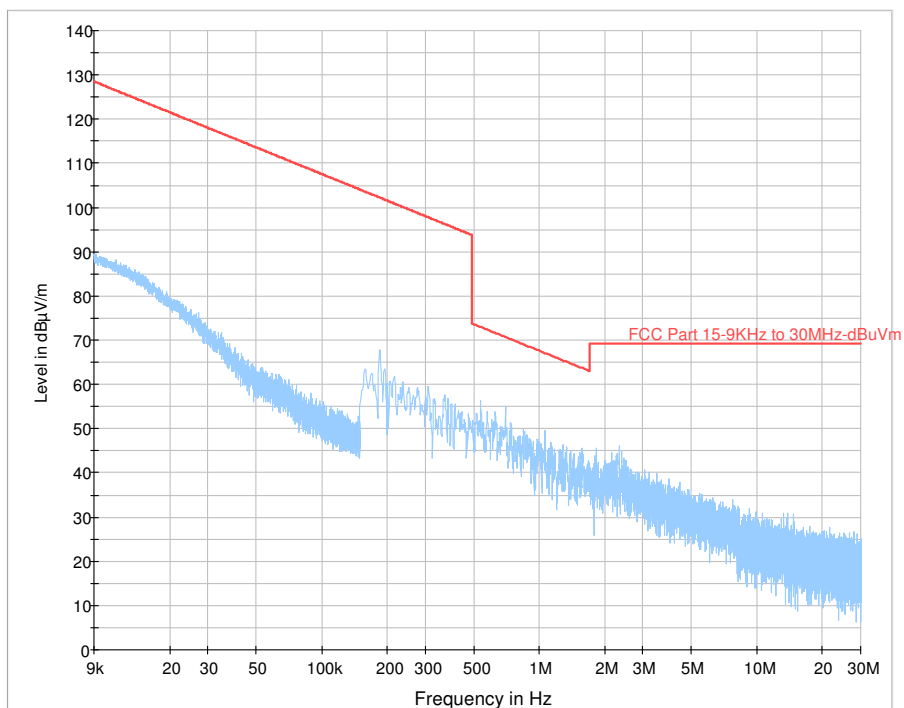
Note : Peak Graph - Parallel

**Antenna-3, Channel 3 (914.325 MHz)**

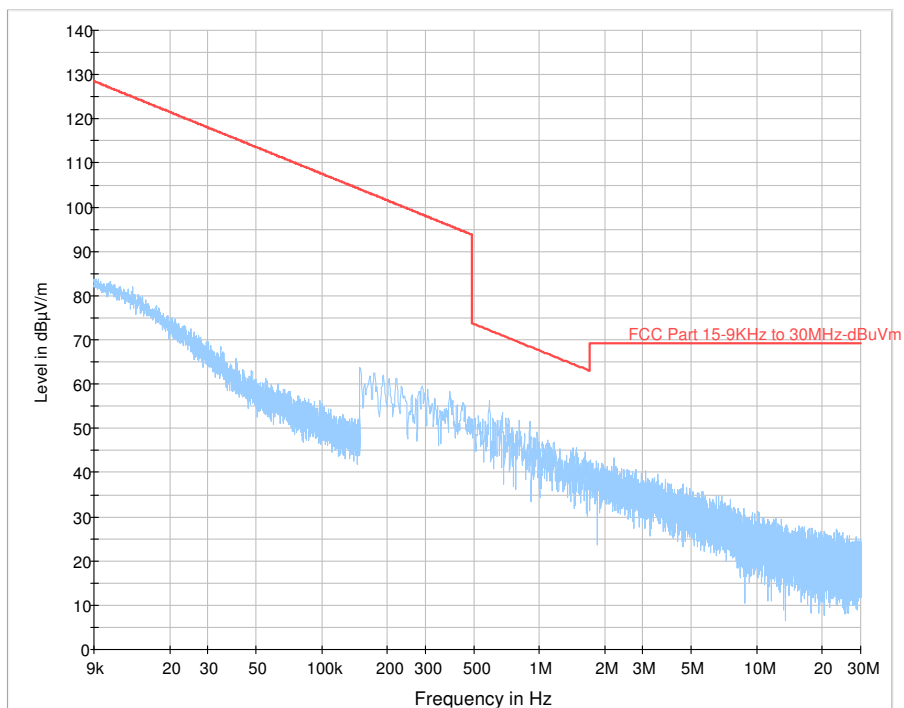
Note : Peak Graph - Perpendicular

**Antenna-3, Channel 4 (915.325 MHz)**

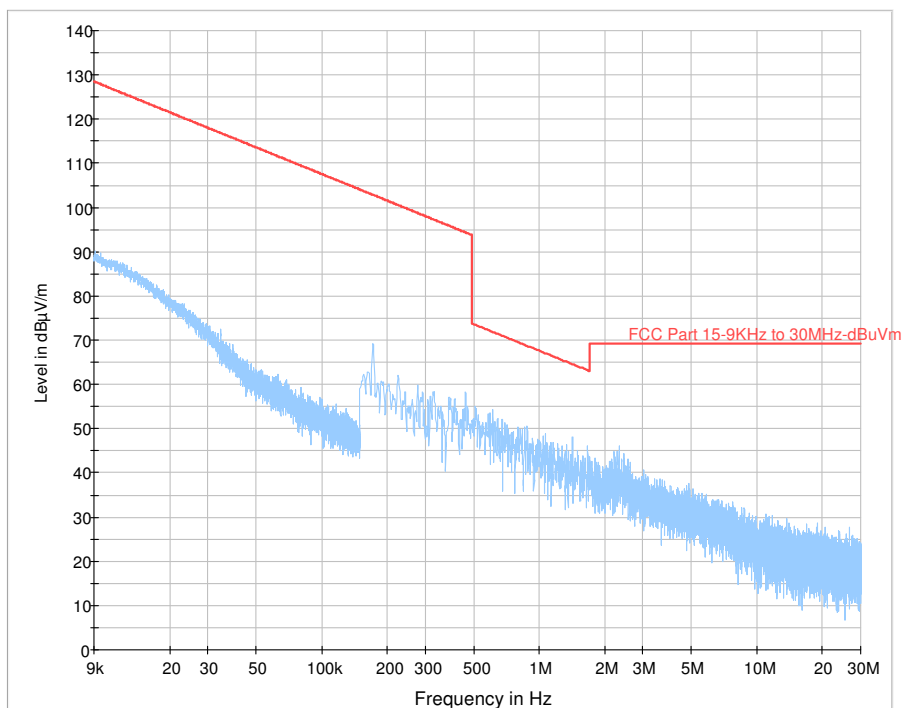
Note : Peak Graph - Parallel

**Antenna-3, Channel 4 (915.325 MHz)**

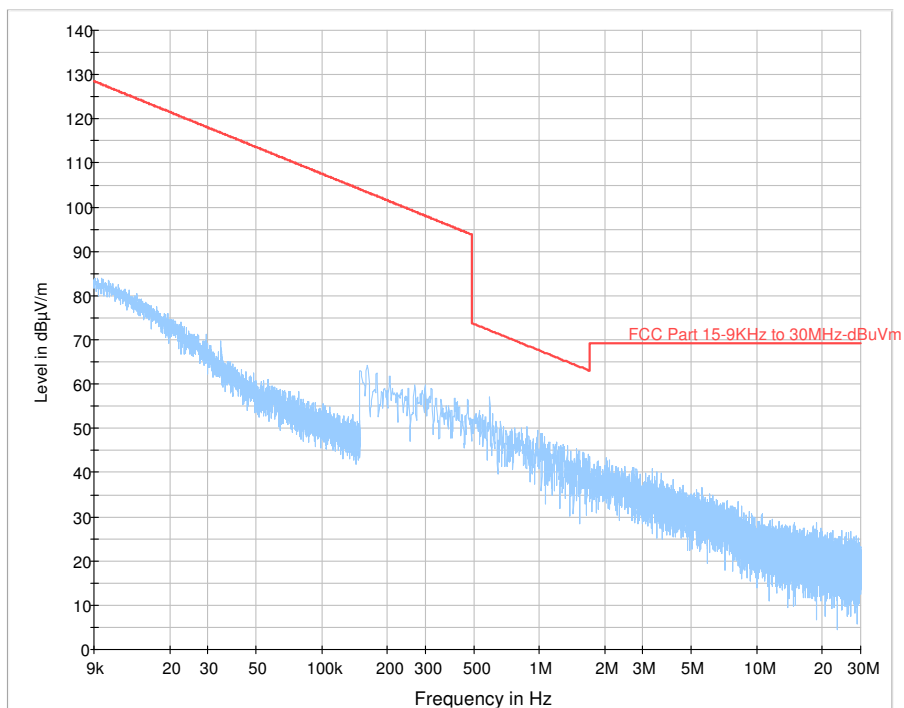
Note : Peak Graph - Perpendicular

**Antenna-3, Channel 5 (921.575 MHz)**

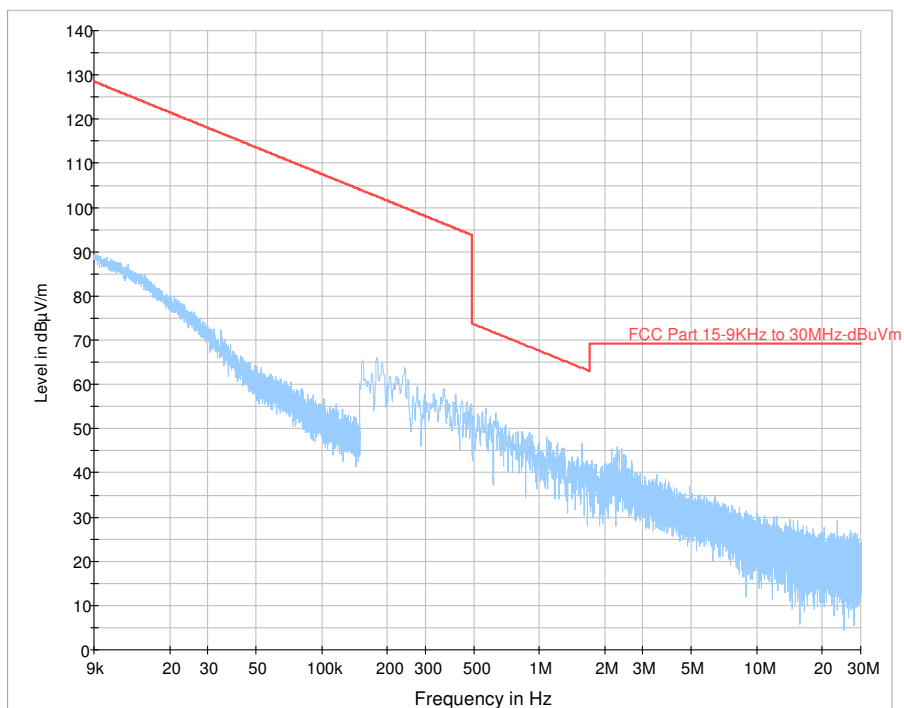
Note : Peak Graph - Parallel

**Antenna-3, Channel 5 (921.575 MHz)**

Note : Peak Graph - Perpendicular

**Antenna-3, Channel 6 (927.125MHz)**

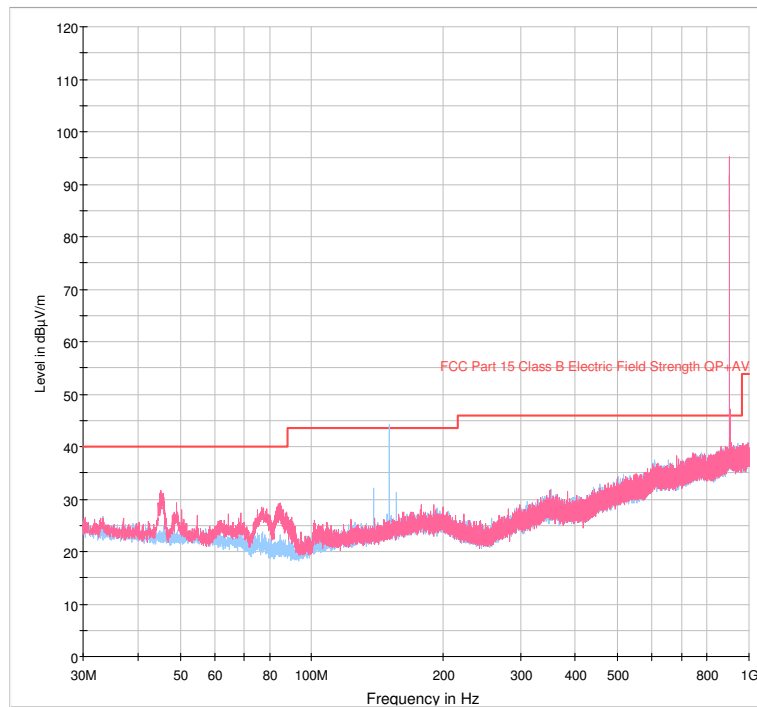
Note : Peak Graph - Parallel

**Antenna-3, Channel 6 (927.125MHz)**

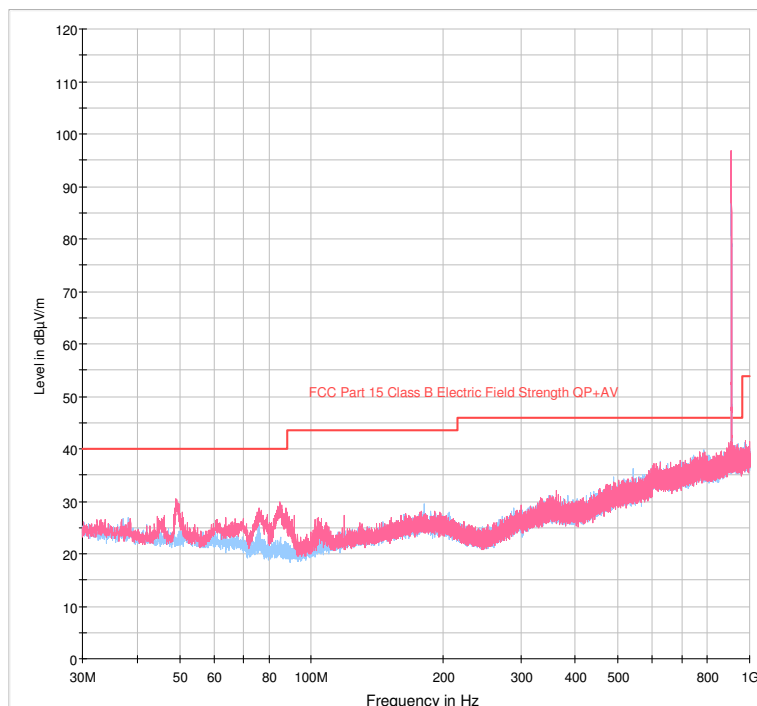
Note : Peak Graph - Perpendicular

TEST RESULT – 9 KHz to 30 MHz									
Channel	Channel Frequency	Measured Spurious	Quasi Peak	Height	Ant Pol	Azimuth	Margin	Limit @ 3m Distance	Results
#	MHz	MHz	dBµV/m	cm	Parallel / Perpendicular	deg	dB	dBµV/m	
No Emissions Found									
Note : Measured Field Strength (dBuV/m) = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB)									

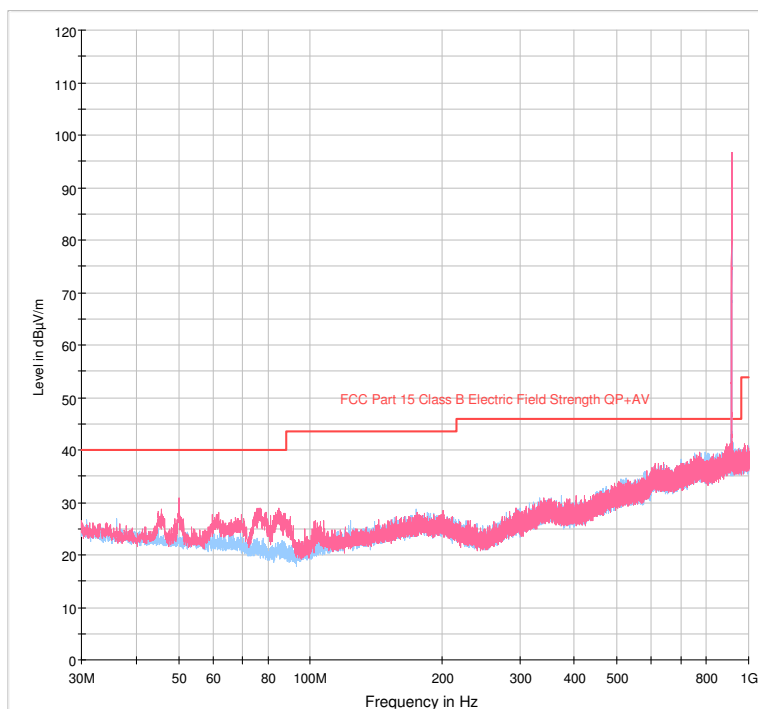
TEST GRAPHS – 30 MHz to 1 GHz

**Antenna-1, Channel 1 (902.875 MHz)**

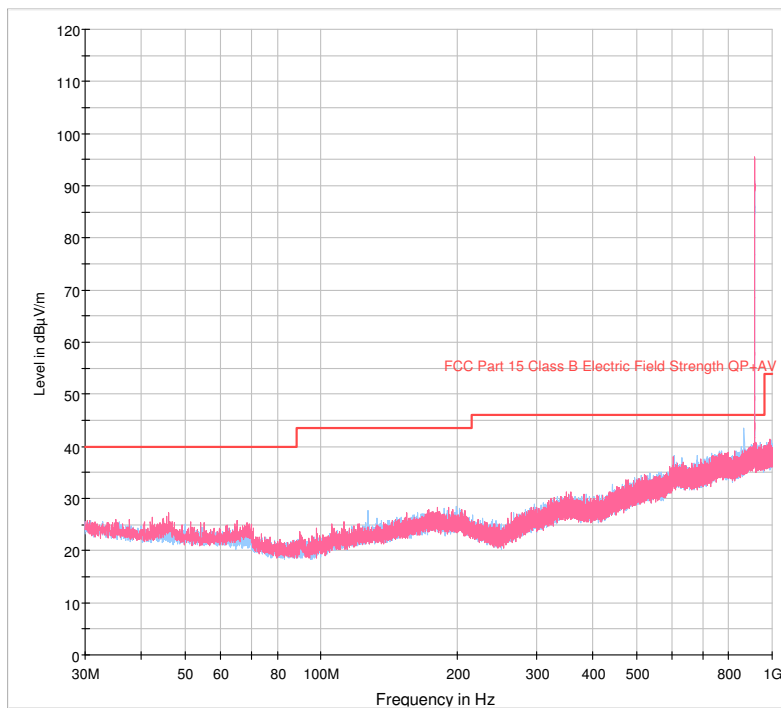
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

**Antenna-1, Channel 2 (908.425 MHz)**

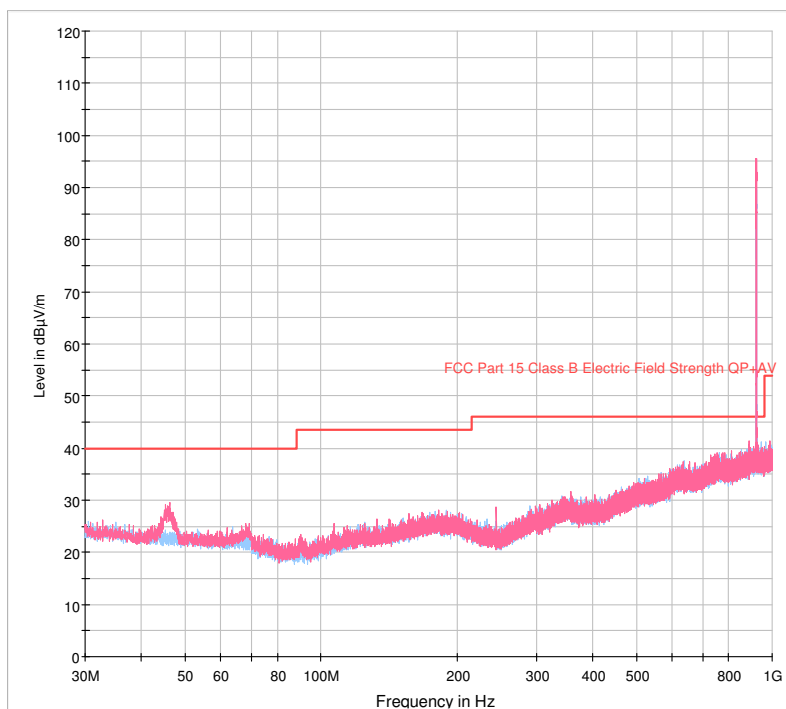
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

**Antenna-1, Channel 3 (914.325 MHz)**

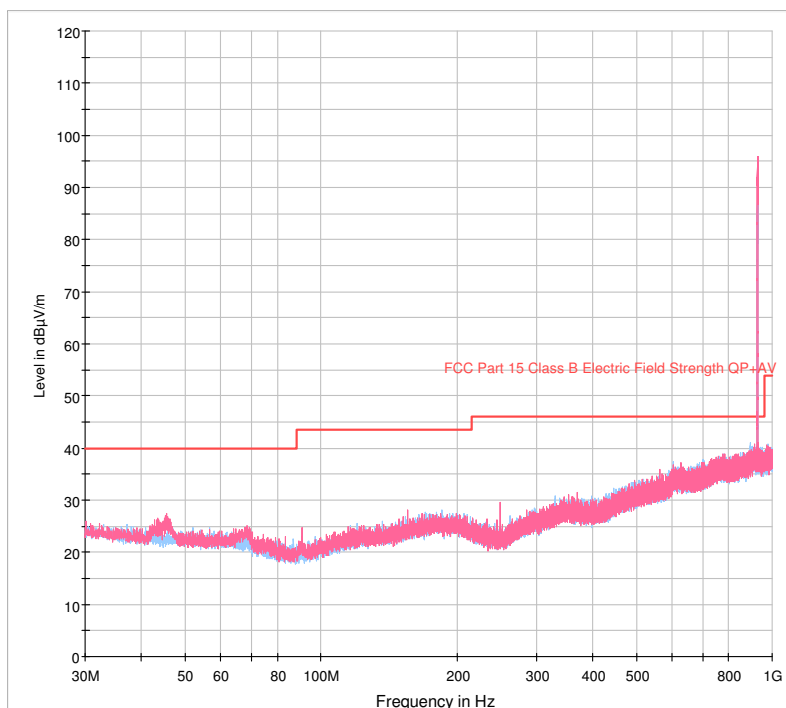
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

**Antenna-1, Channel 4 (915.325 MHz)**

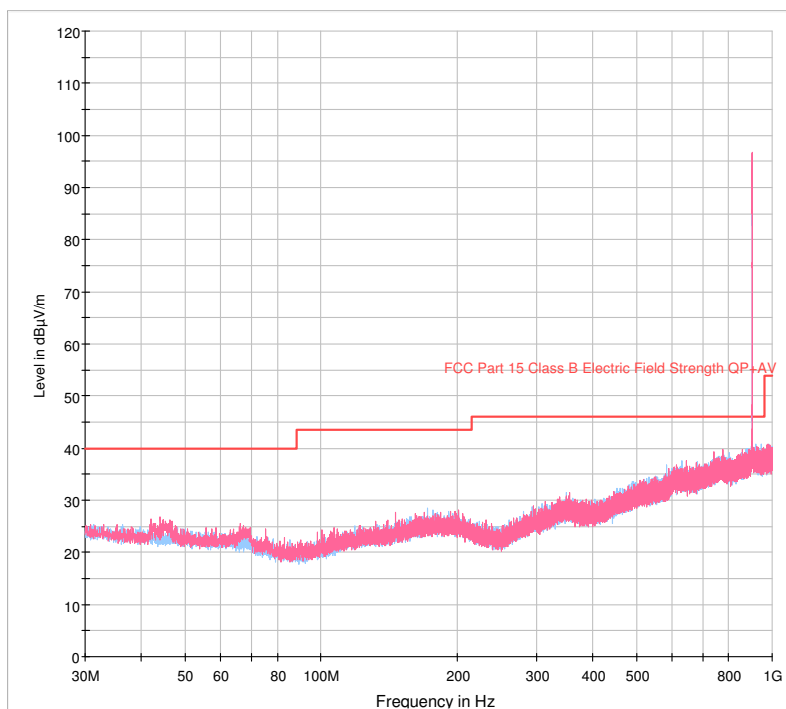
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

**Antenna-1, Channel 5 (921.575 MHz)**

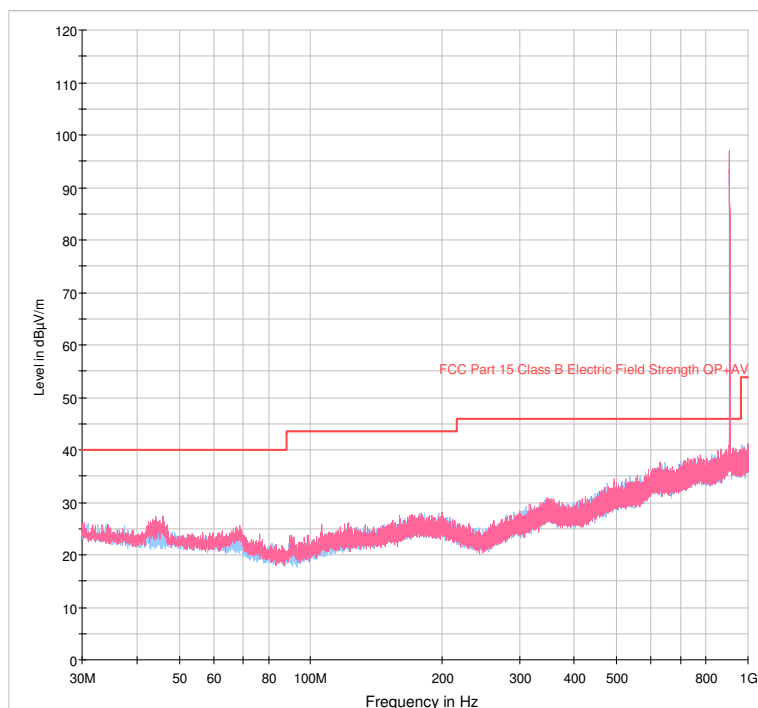
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

**Antenna-1, Channel 6 (927.125MHz)**

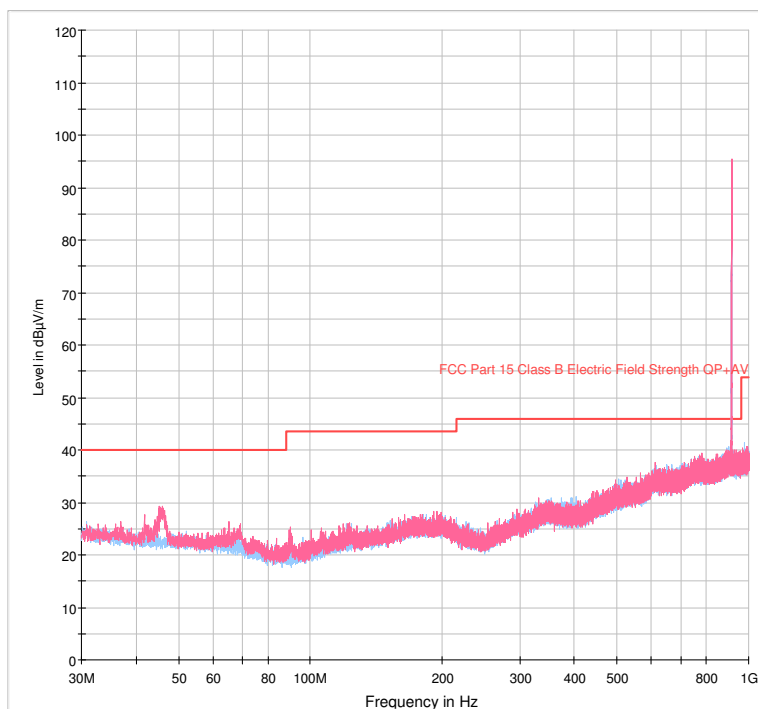
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

**Antenna-2, Channel 1 (902.875 MHz)**

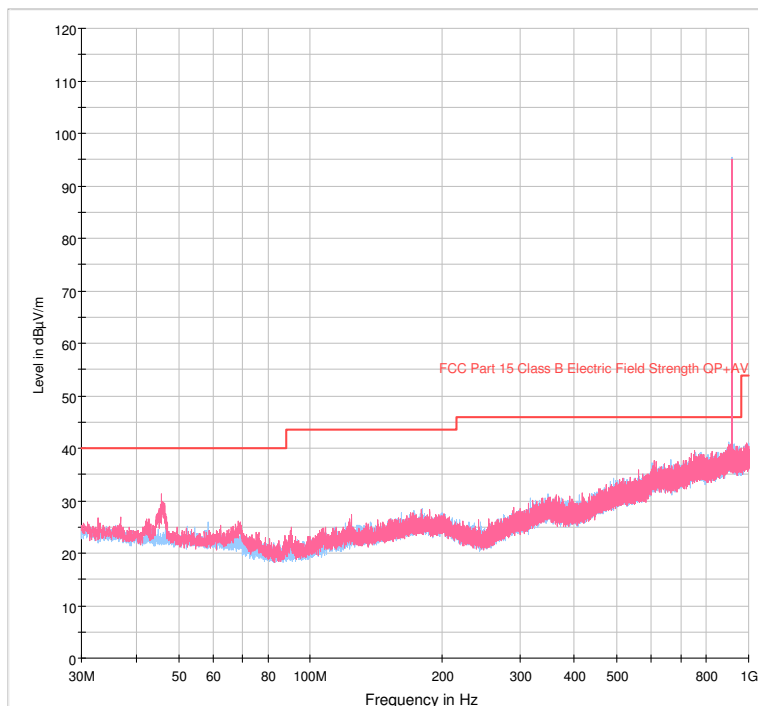
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

**Antenna-2, Channel 2 (908.425 MHz)**

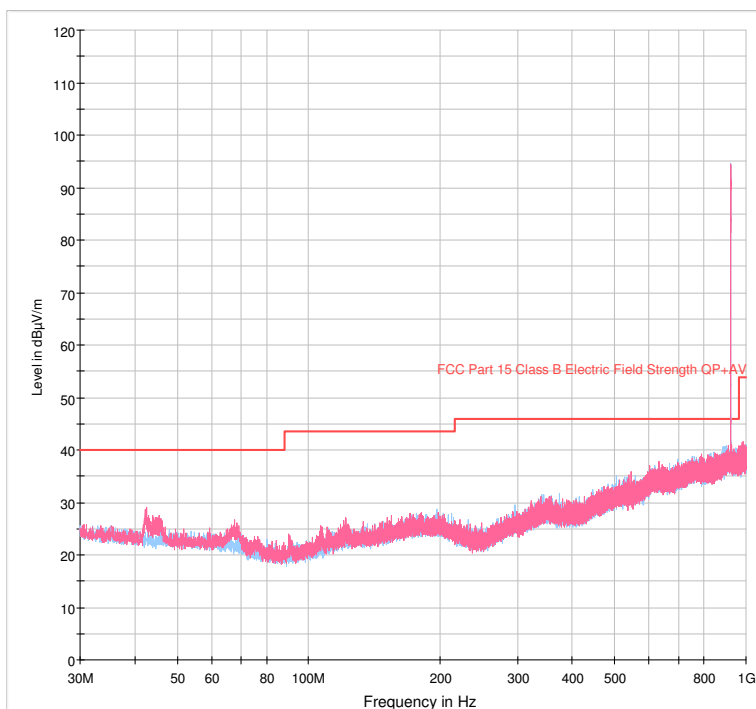
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

**Antenna-2, Channel 3 (914.325 MHz)**

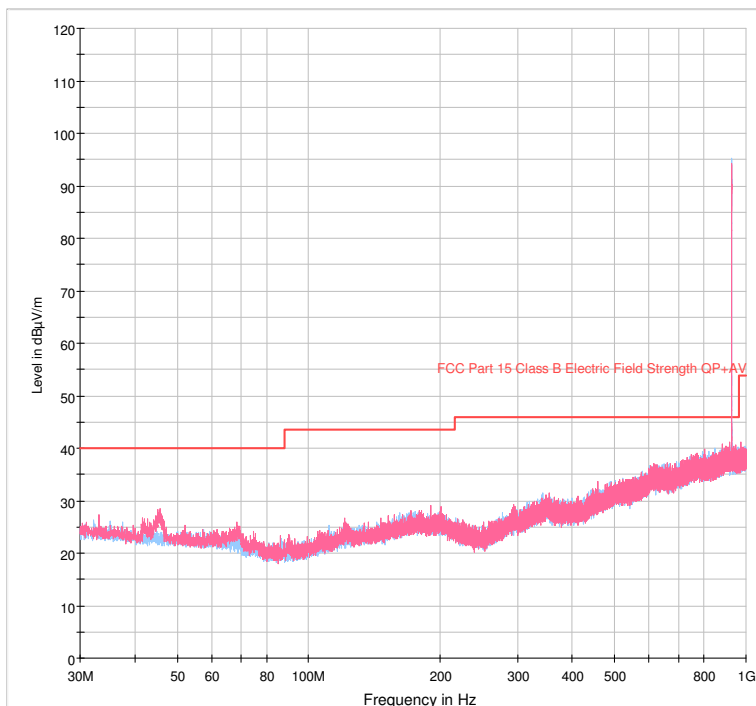
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

**Antenna-2, Channel 4 (915.325 MHz)**

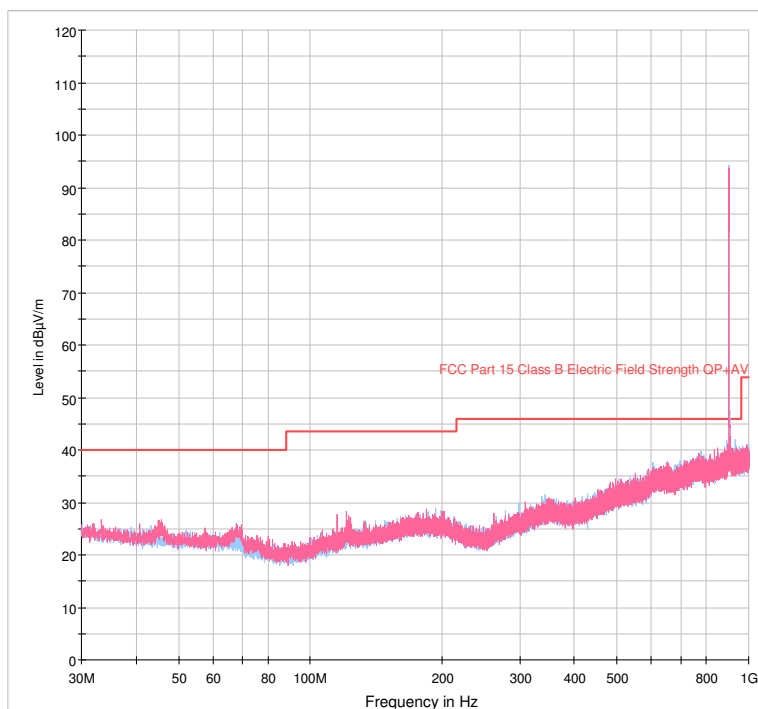
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

**Antenna-2, Channel 5 (921.575 MHz)**

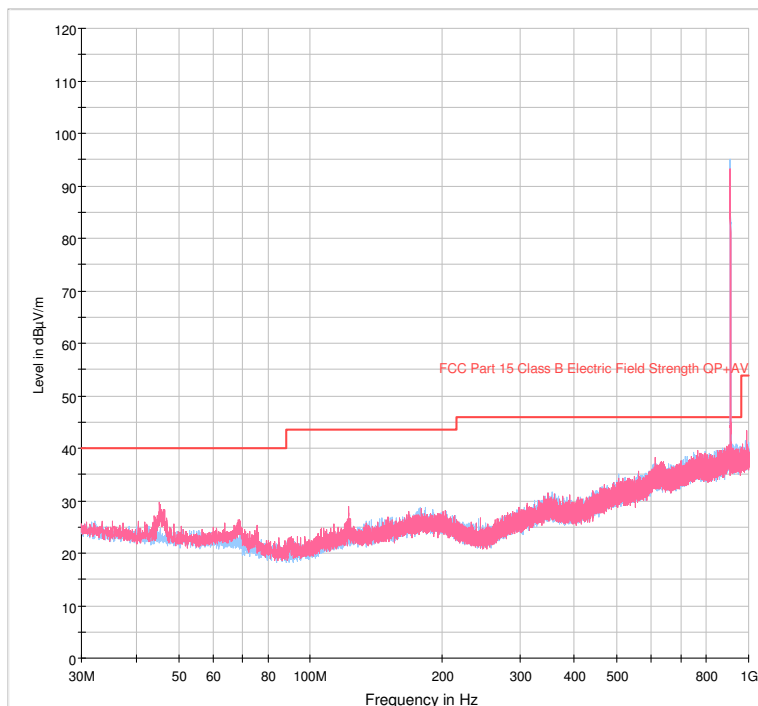
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

**Antenna-2, Channel 6 (927.125MHz)**

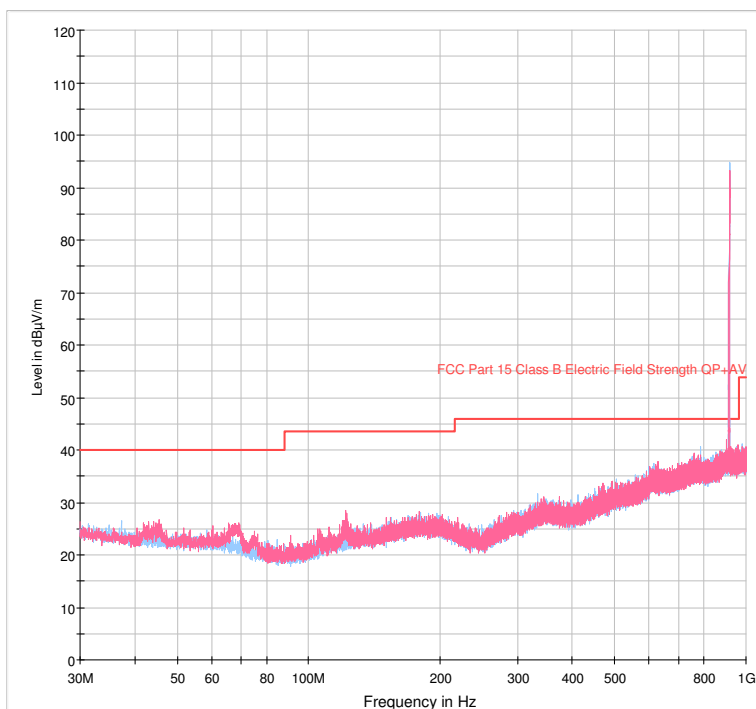
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

**Antenna-3, Channel 1 (902.875 MHz)**

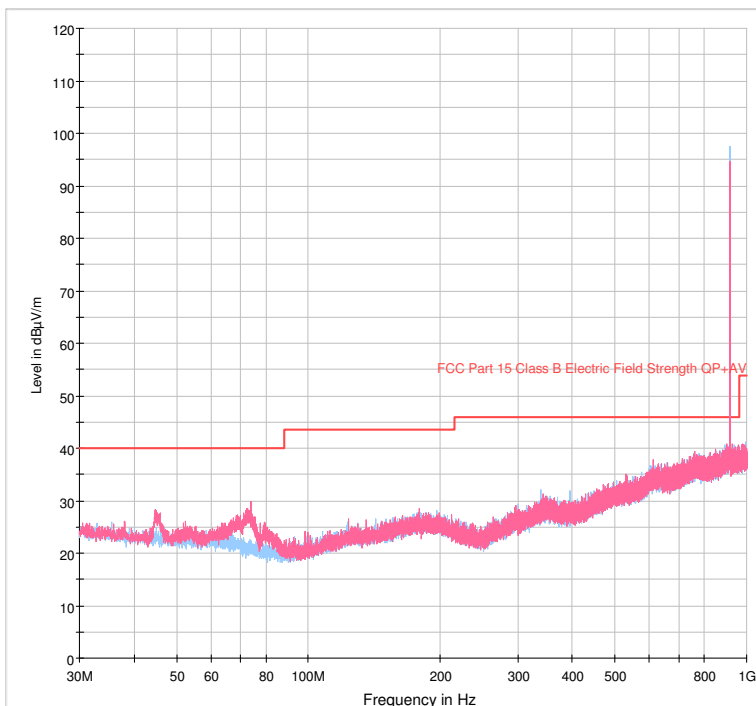
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

**Antenna-3, Channel 2 (908.425 MHz)**

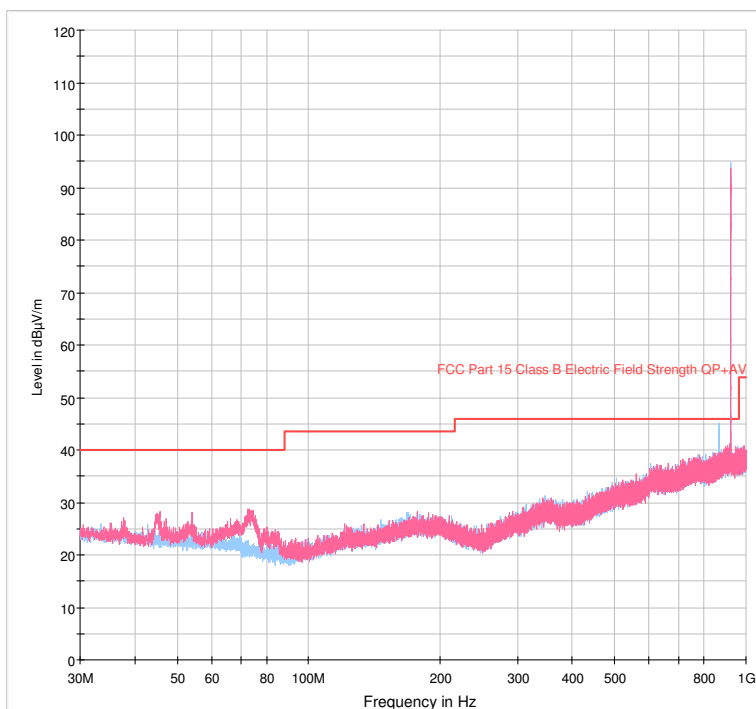
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

**Antenna-3, Channel 3 (914.325 MHz)**

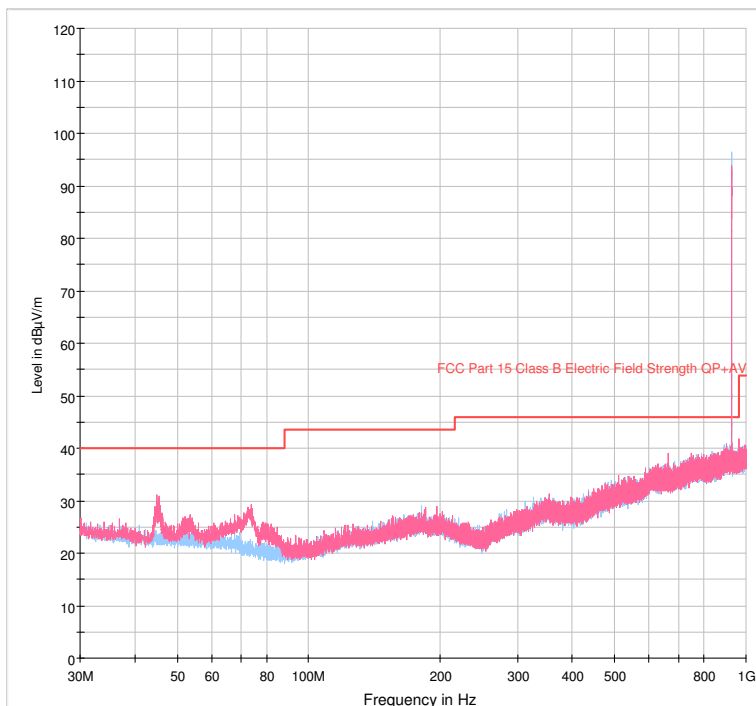
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

**Antenna-3, Channel 4 (915.325 MHz)**

Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

**Antenna-3, Channel 5 (921.575 MHz)**

Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

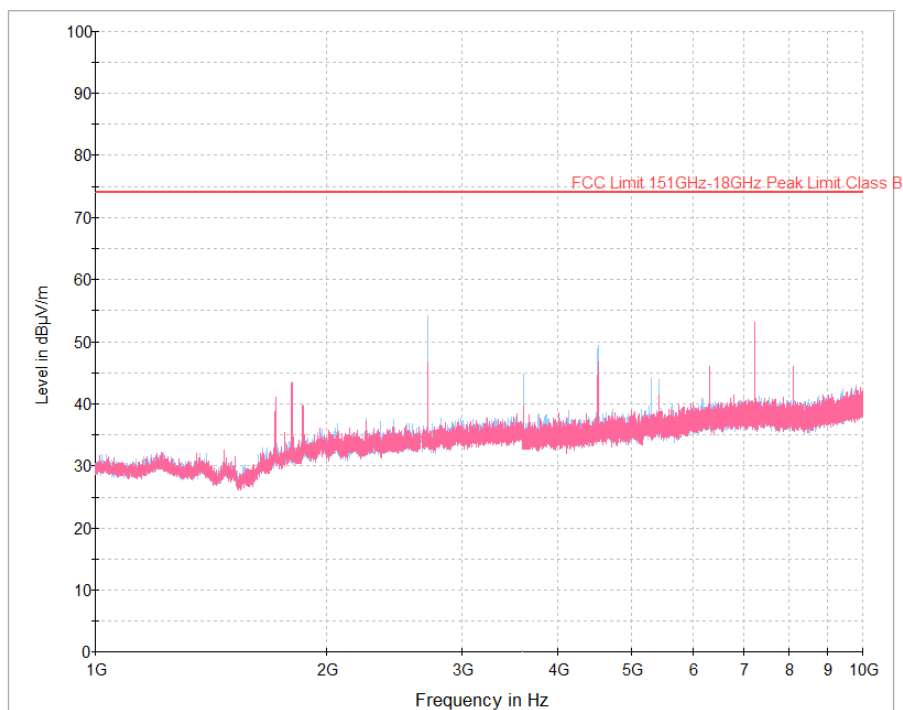
**Antenna-3, Channel 6 (927.125MHz)**

Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue), Tested with 6dB Attenuator

TEST RESULT – 30 MHz to 1 GHz

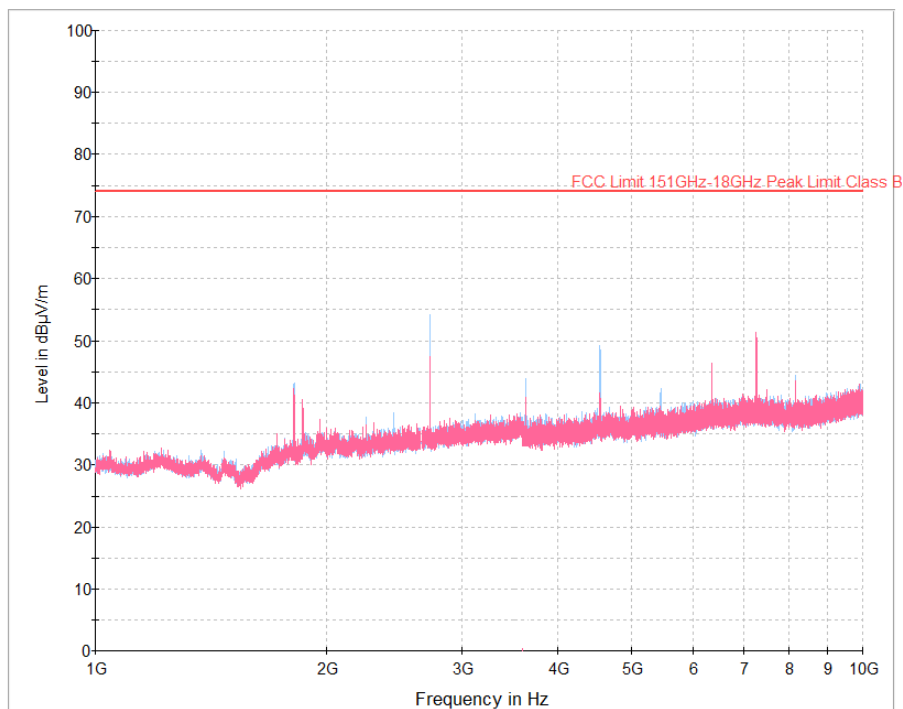
Channel #	Measured Spurious Frequency MHz	Quasi Peak dBμV/m	Height cm	Ant Pol H / V	Azimuth deg	Margin dB	Limit @ 3m Distance dBμV/m	Results
Antenna-1								
CH-1	150.47	26.40	200	H	98	17.10	43.50	PASS
CH-1	903.03	100.62	100	V	250	-54.62	46.00	Intentional Frequency
CH-2	908.59	101.86	100	V	251	-55.86	46.00	Intentional Frequency
CH-3	914.48	102.86	100	V	250	-56.86	46.00	Intentional Frequency
CH-4	866.50	39.35	100	H	36	6.65	46.00	PASS
CH-4	915.48	100.94	100	V	241	-54.94	46.00	Intentional Frequency
CH-5	814.02	38.47	300	V	155	7.53	46.00	PASS
CH-5	921.72	101.60	100	V	247	-55.60	46.00	Intentional Frequency
CH-6	777.48	38.78	100	V	220	7.23	46.00	Pass
CH-6	927.28	101.76	100	V	243	-55.76	46.00	Intentional Frequency
Antenna-2								
CH-1	777.00	38.77	200	V	343	7.23	46.00	PASS
CH-1	903.03	101.98	100	V	298	-55.98	46.00	Intentional Frequency
CH-2	824.04	38.37	300	H	61	7.63	46.00	PASS
CH-2	908.59	102.27	100	V	232	-56.27	46.00	Intentional Frequency
CH-3	780.55	38.77	100	V	57	7.23	46.00	PASS
CH-3	914.48	101.27	100	V	230	-55.27	46.00	Intentional Frequency
CH-4	753.36	38.69	100	V	198	7.31	46.00	PASS
CH-4	915.48	101.12	100	H	46	-55.12	46.00	Intentional Frequency
CH-5	830.99	38.75	200	H	191	7.25	46.00	PASS
CH-5	921.75	98.72	100	H	37	-52.72	46.00	Intentional Frequency
CH-6	803.90	38.67	100	V	134	7.34	46.00	PASS
CH-6	927.28	100.60	100	H	36	-54.60	46.00	Intentional Frequency
Antenna-3								
CH-1	836.26	39.05	200	V	168	6.95	46.00	PASS
CH-1	903.03	99.20	100	H	1	-53.20	46.00	Intentional Frequency
CH-2	763.48	38.89	100	V	220	7.11	46.00	PASS
CH-2	908.27	100.67	100	H	1	-54.67	46.00	Intentional Frequency
CH-3	784.40	38.67	200	H	121	7.33	46.00	PASS
CH-3	914.48	100.05	100	H	1	-54.05	46.00	Intentional Frequency
CH-4	759.63	38.83	300	V	205	7.17	46.00	PASS
CH-4	915.19	102.25	100	H	16	-56.25	46.00	Intentional Frequency
CH-5	866.69	39.41	200	H	168	6.59	46.00	PASS
CH-5	921.72	100.46	100	H	17	-54.46	46.00	Intentional Frequency
CH-6	833.65	38.82	300	H	85	7.18	46.00	PASS
CH-6	927.28	101.59	100	H	1	-55.59	46.00	Intentional Frequency
NOTE: Measured Field Strength (dBuV/m) (9 KHz to 1GHz) = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + 6dB Attenuator								

TEST GRAPHS – 1 GHz to 10 GHz – Peak



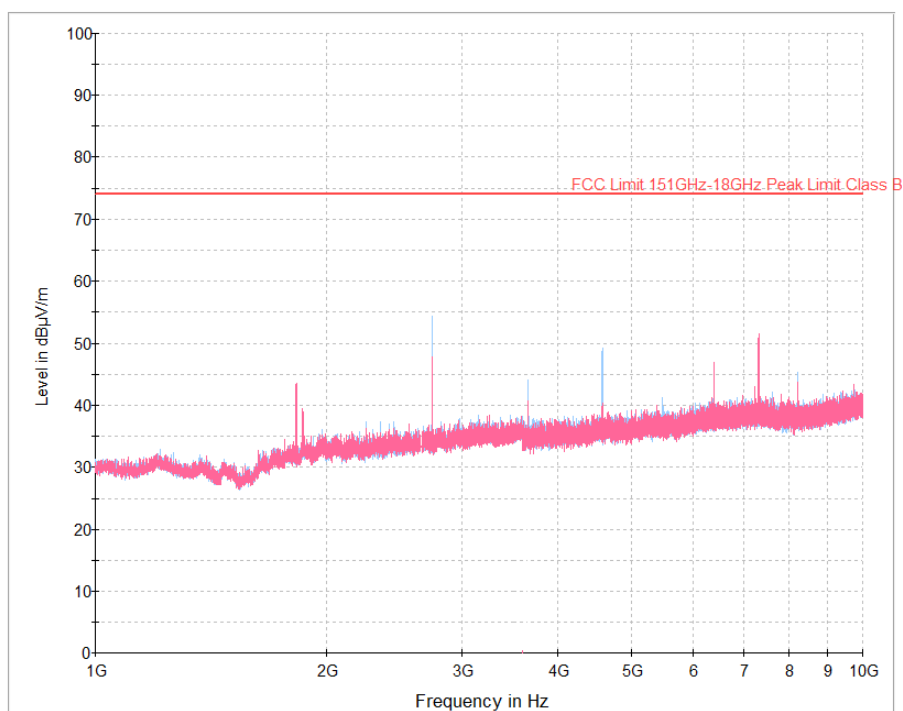
Antenna-1, Channel 1 (902.875 MHz)

Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

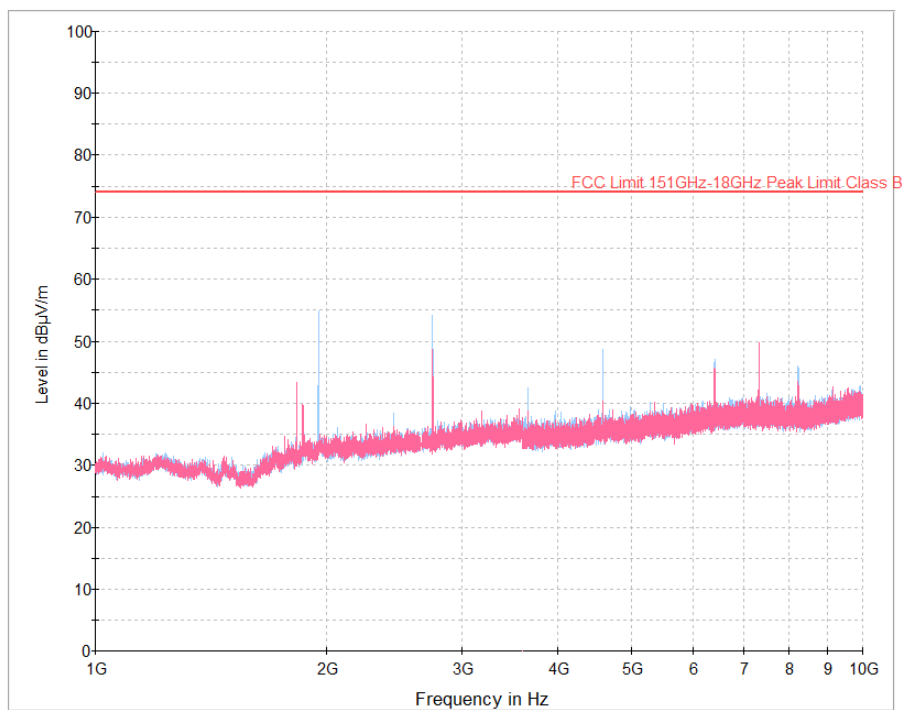


Antenna-1, Channel 2 (908.425 MHz)

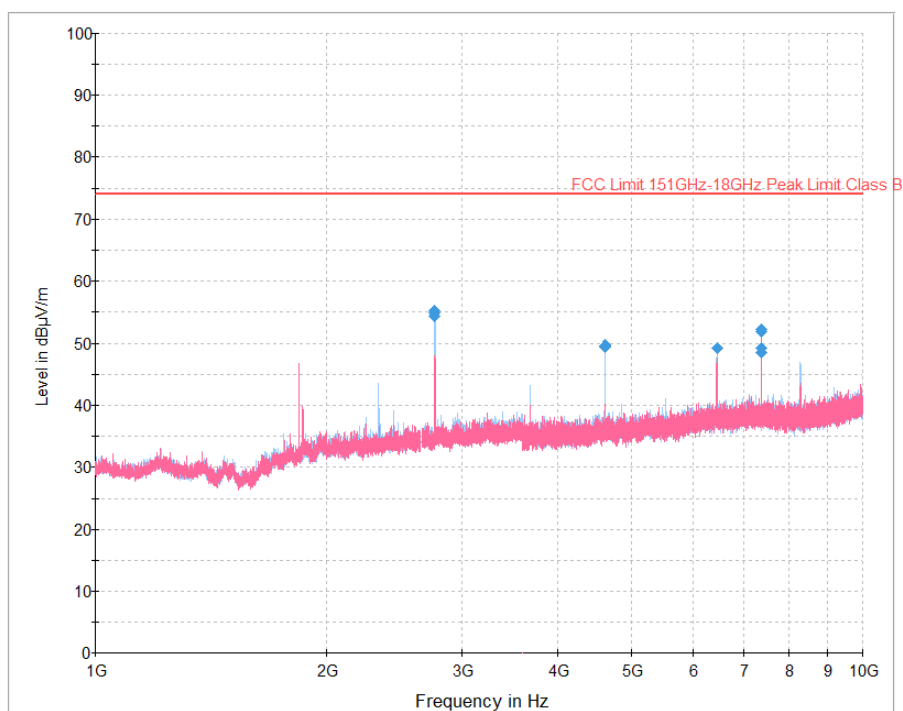
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

**Antenna-1, Channel 3 (914.325 MHz)**

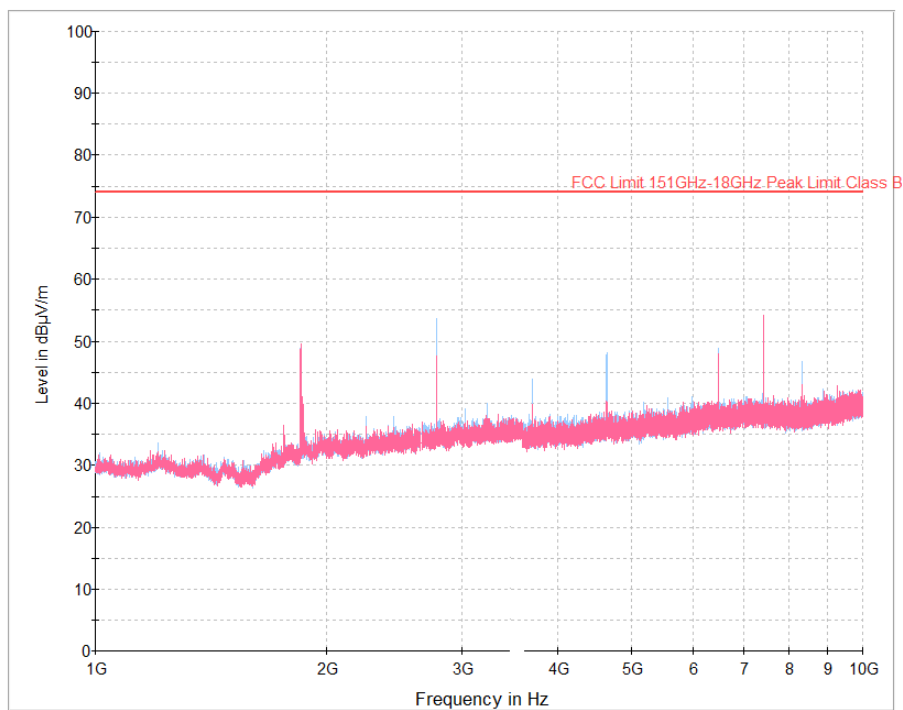
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

**Antenna-1, Channel 4 (915.325 MHz)**

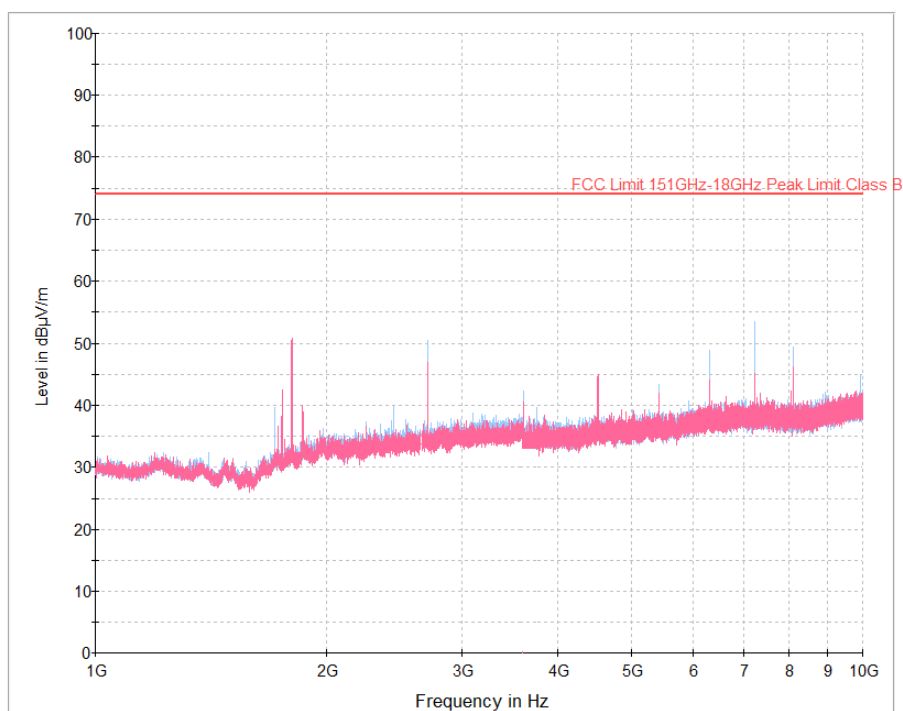
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

**Antenna-1, Channel 5 (921.575 MHz)**

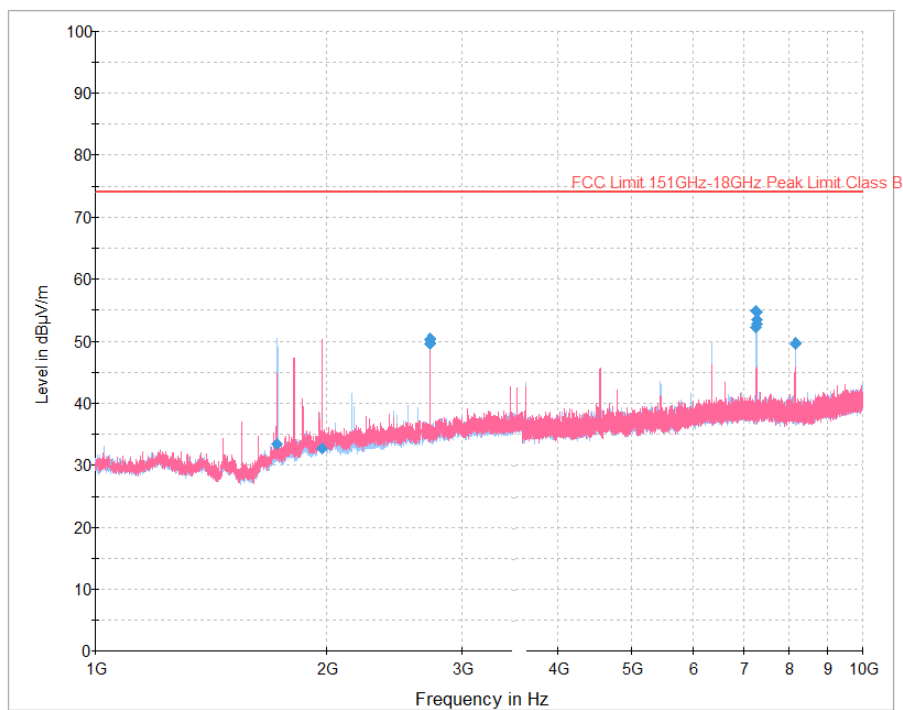
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

**Antenna-1, Channel 6 (927.125 MHz)**

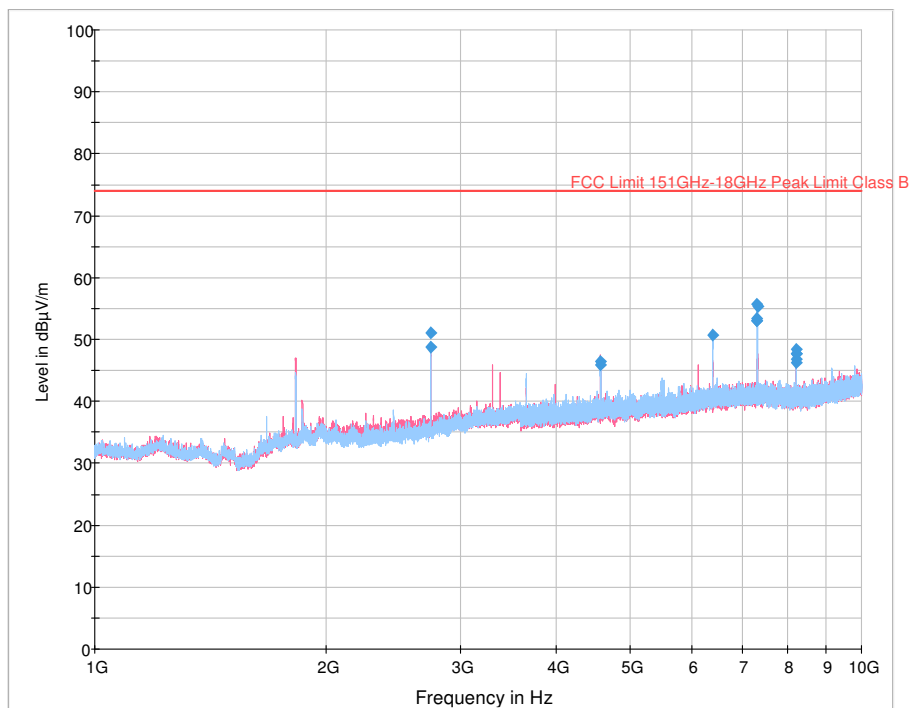
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

**Antenna-2, Channel 1 (902.875 MHz)**

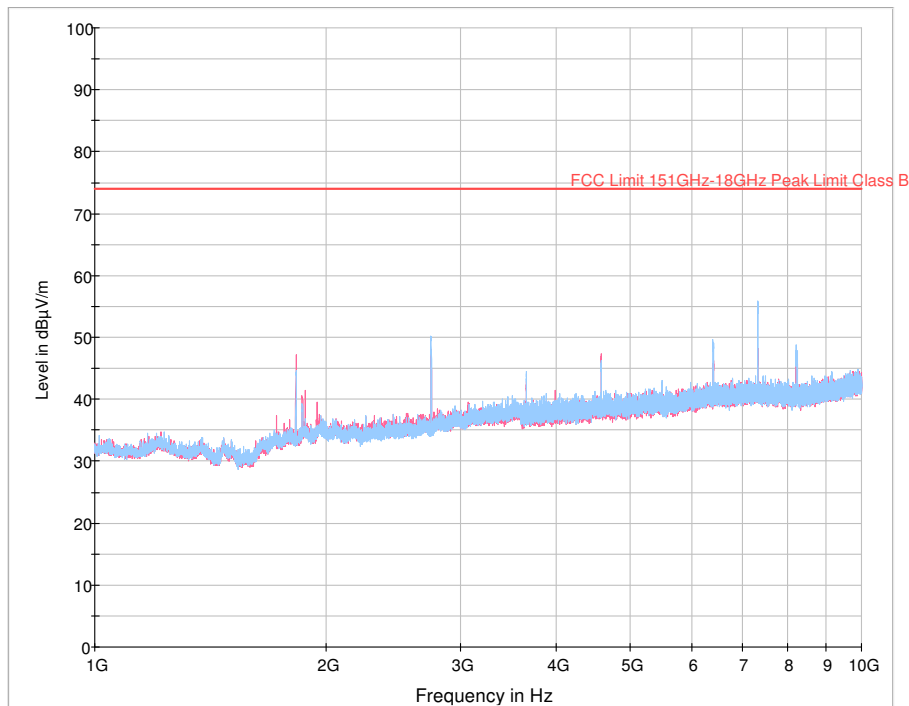
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

**Antenna-2, Channel 2 (908.425 MHz)**

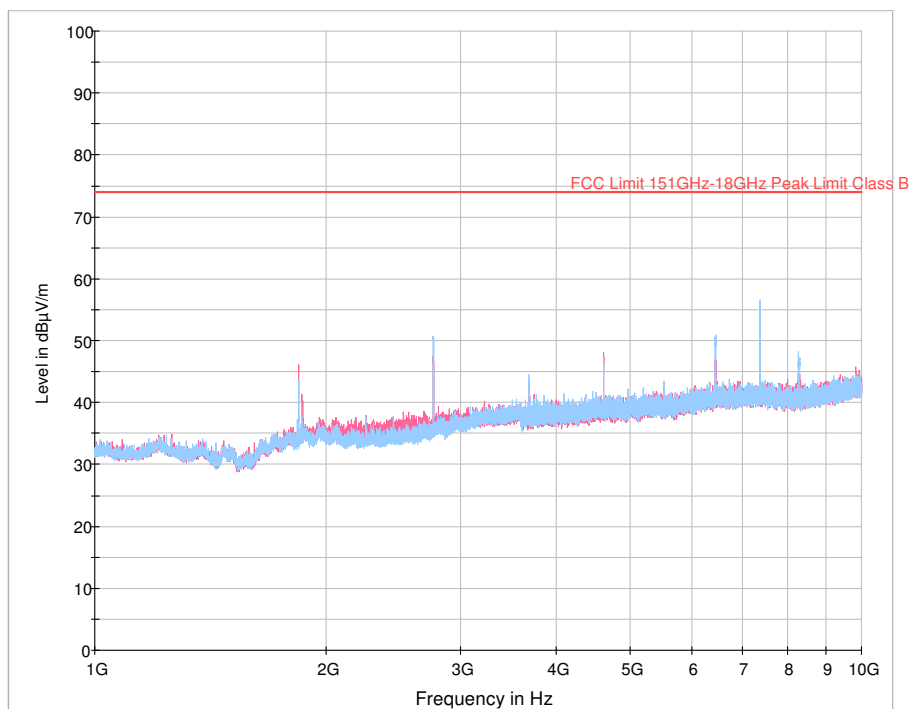
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

**Antenna-2, Channel 3 (914.325 MHz)**

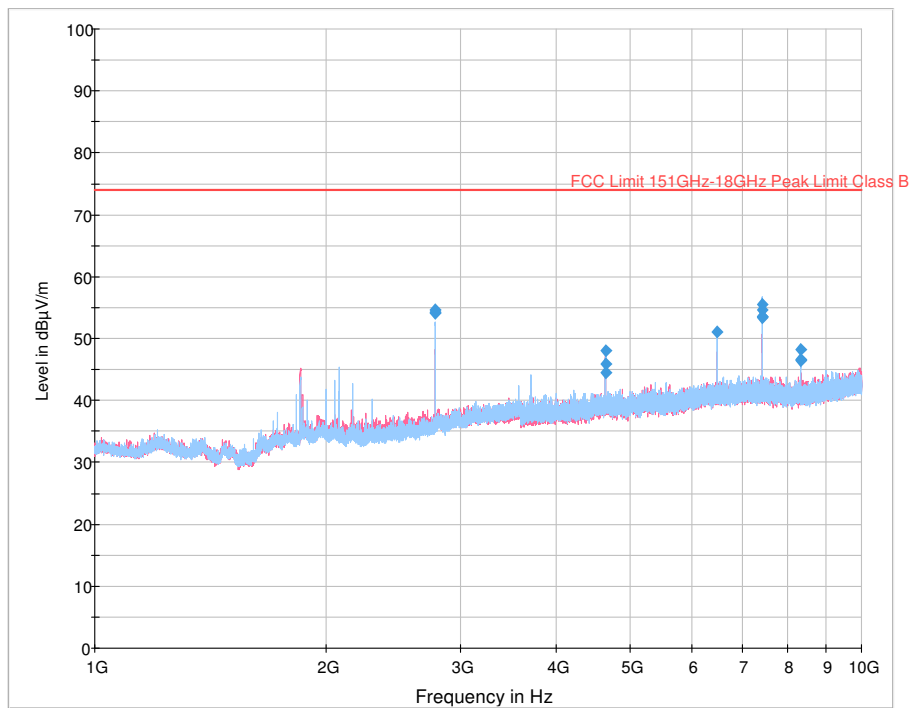
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

**Antenna-2, Channel 4 (915.325 MHz)**

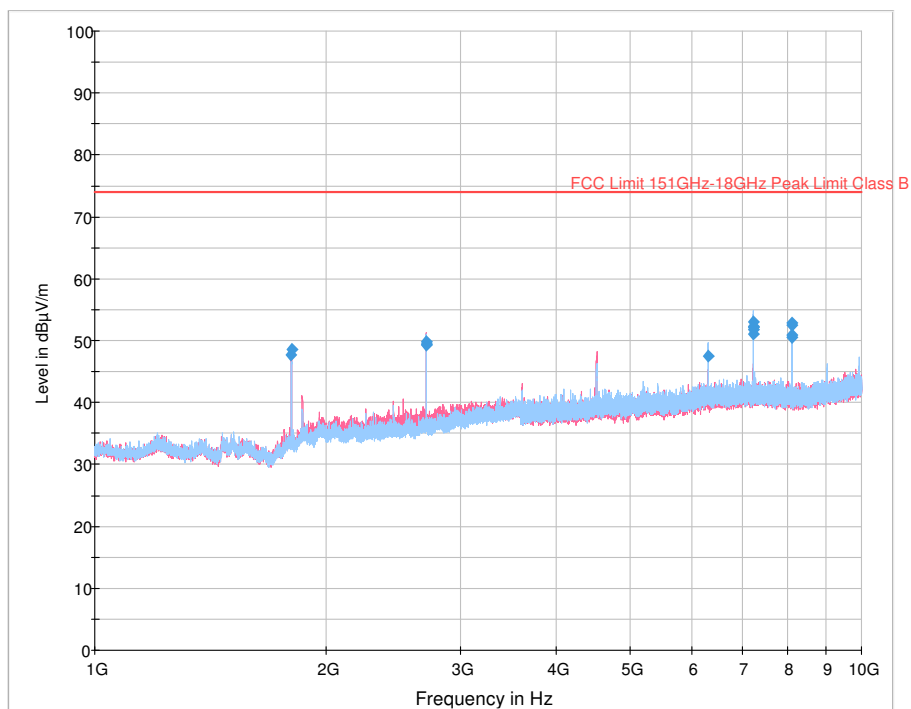
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

**Antenna-2, Channel 5 (921.575 MHz)**

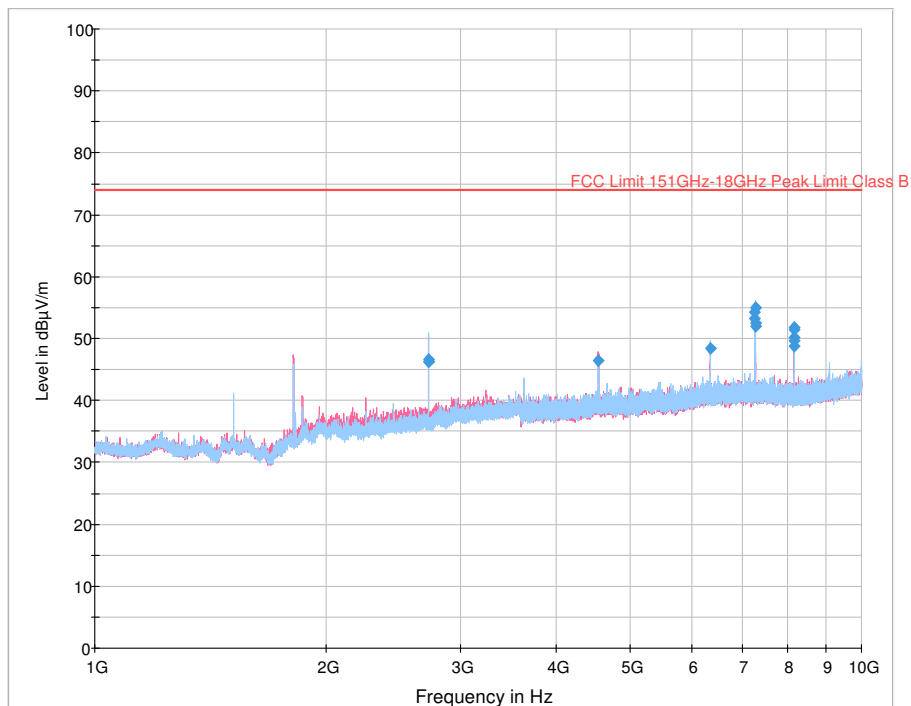
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

**Antenna-2, Channel 6 (927.125MHz)**

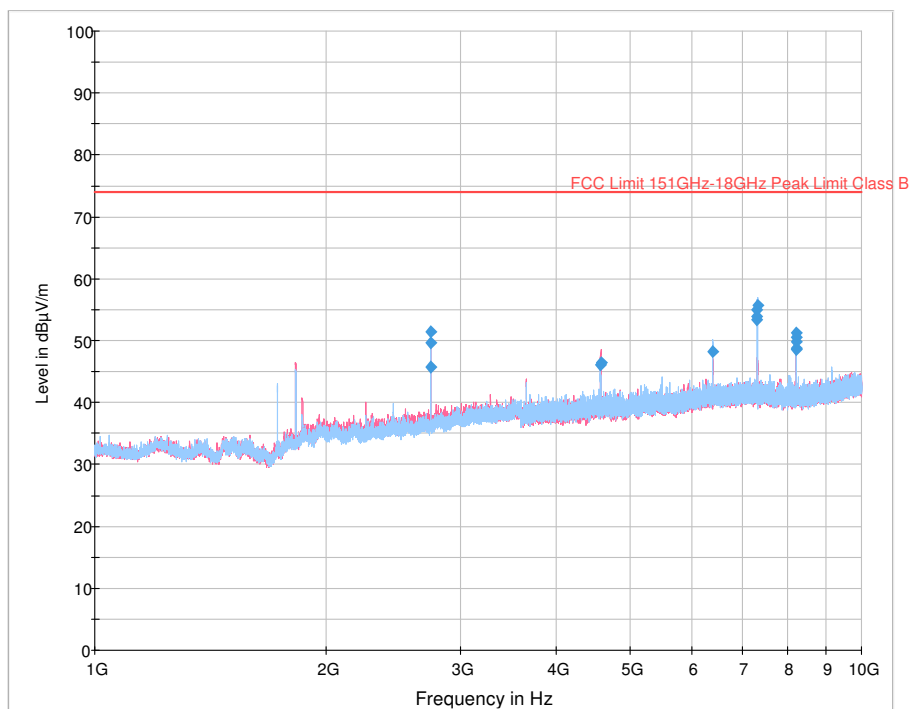
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

**Antenna-3, Channel 1 (902.875 MHz)**

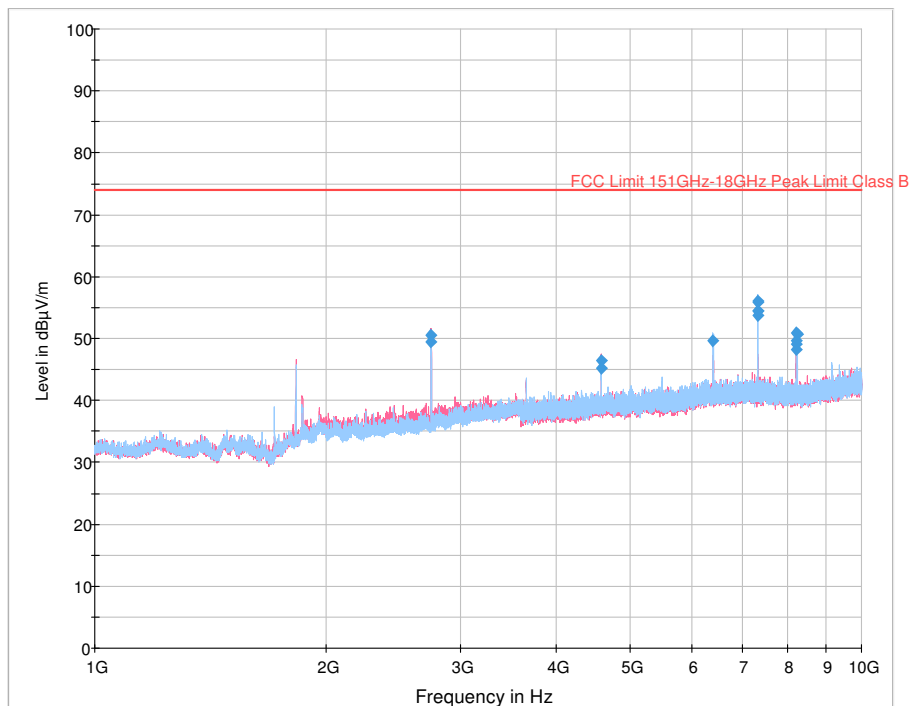
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

**Antenna-3, Channel 2 (908.425 MHz)**

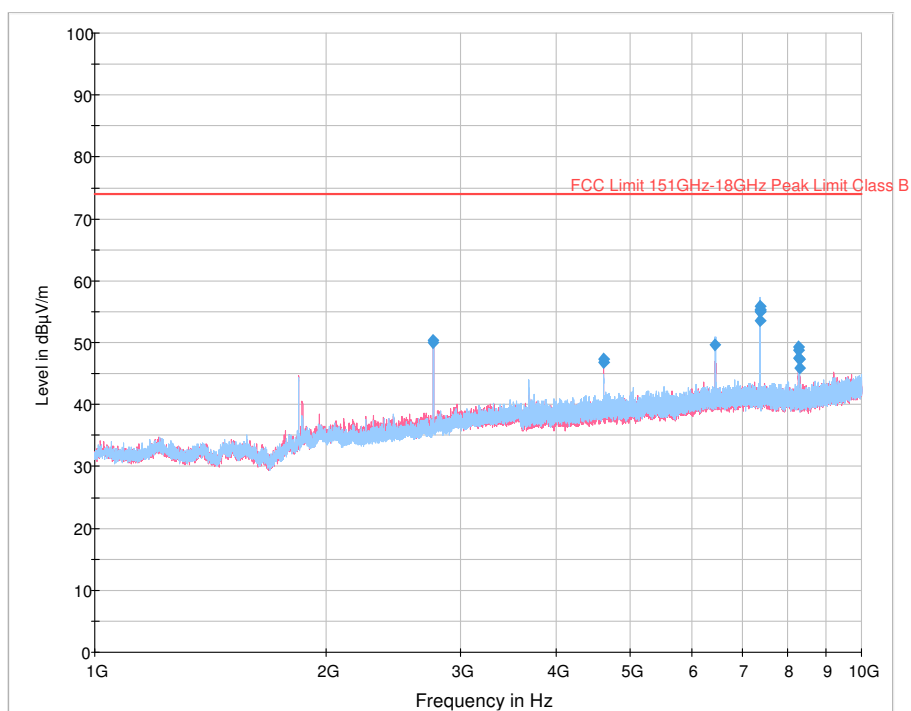
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

**Antenna-3, Channel 3 (914.325 MHz)**

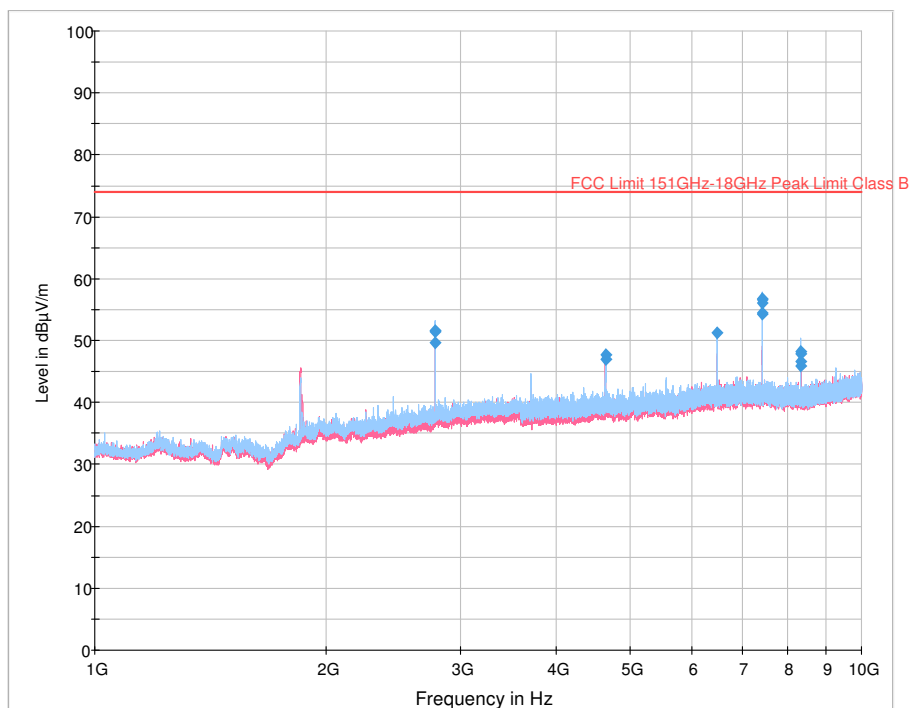
Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

**Antenna-3, Channel 4 (915.325 MHz)**

Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

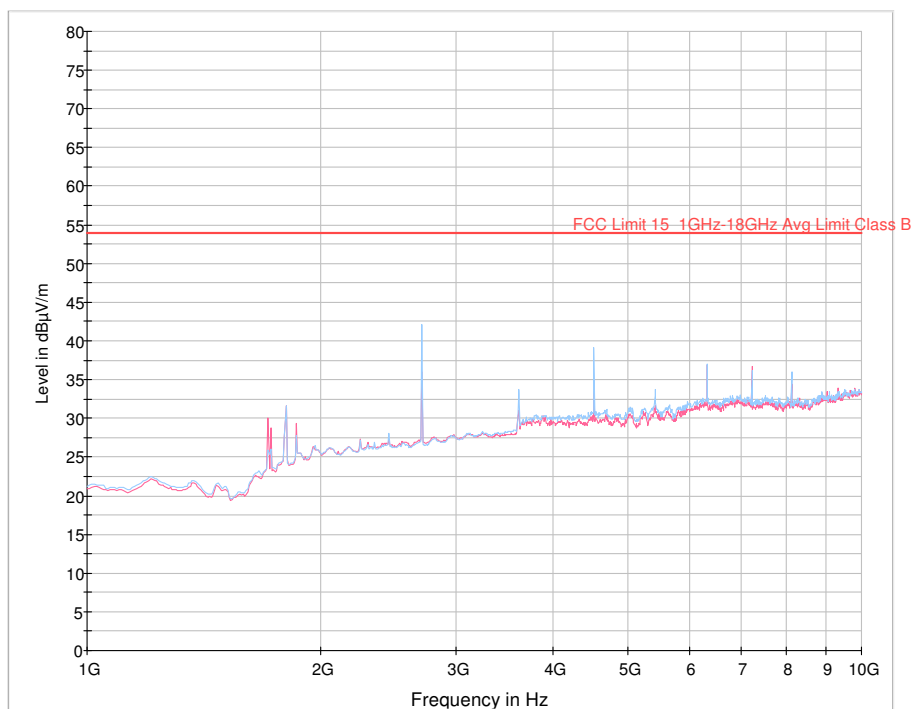
**Antenna-3, Channel 5 (921.575 MHz)**

Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

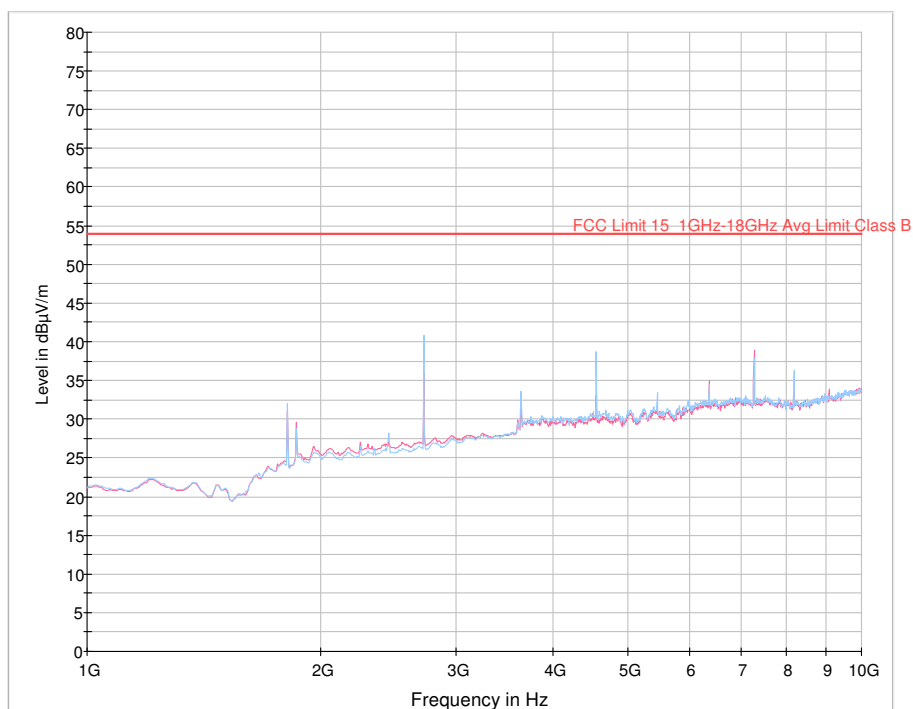
**Antenna-3, Channel 6 (927.125MHz)**

Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

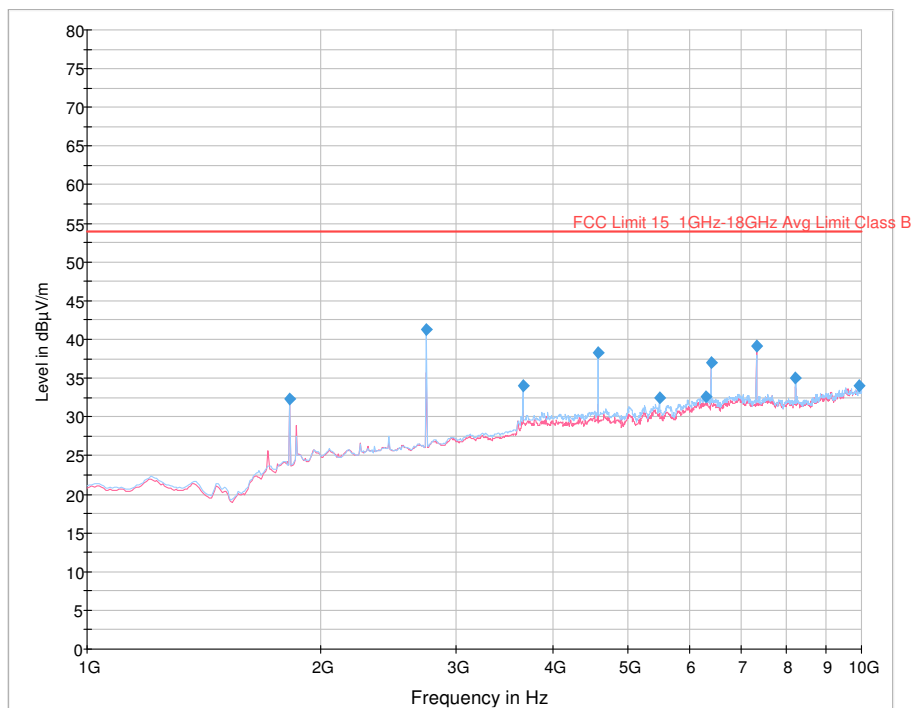
TEST GRAPHS – 1 GHz to 10 GHz – Average

**Antenna-1, Channel 1 (902.875 MHz)**

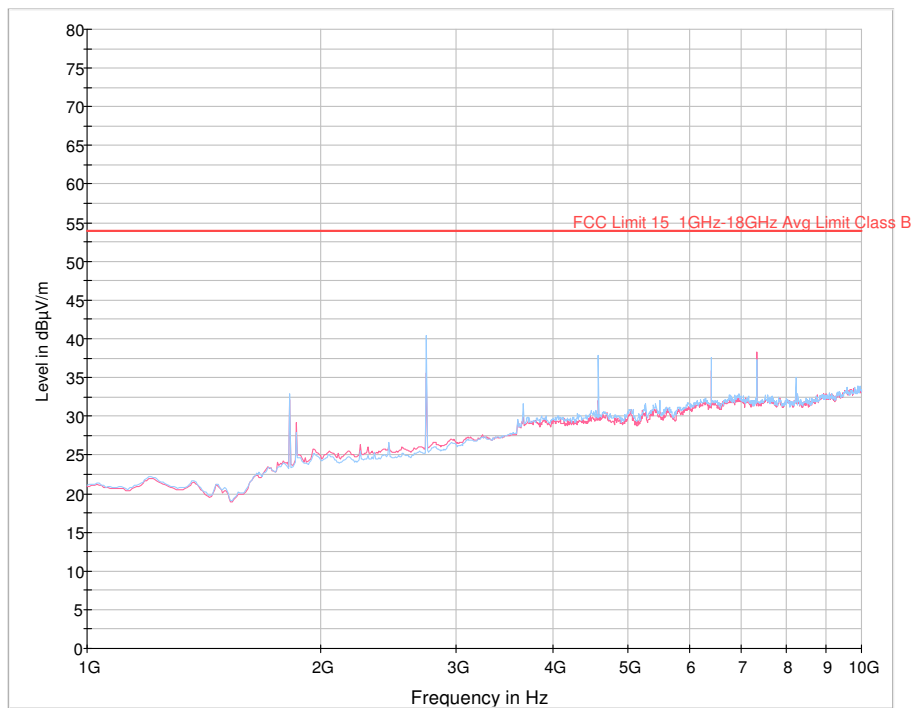
Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

**Antenna-1, Channel 2 (908.425 MHz)**

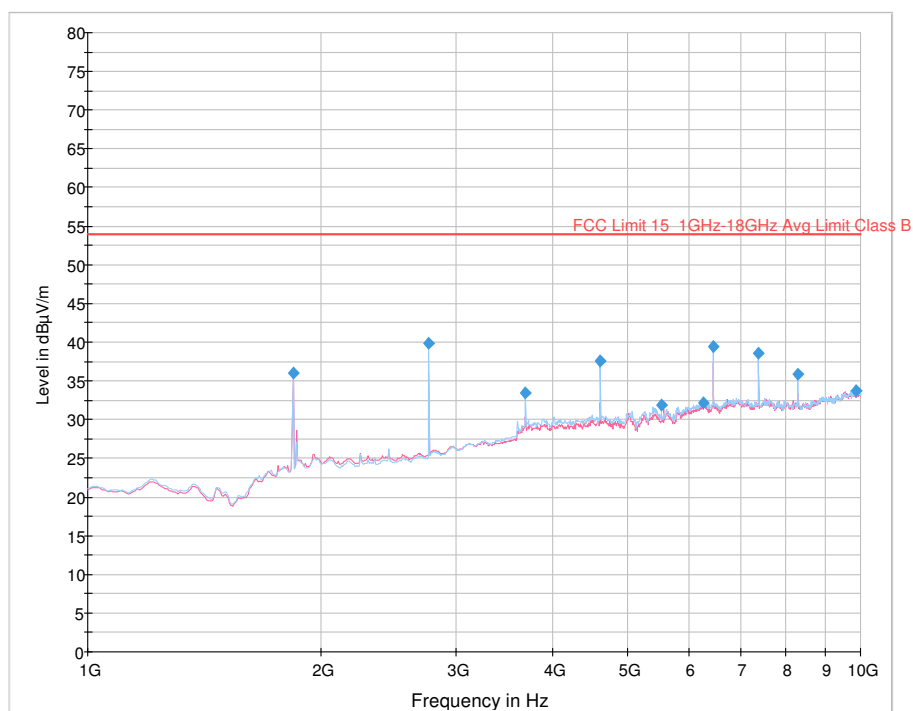
Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

**Antenna-1, Channel 3 (914.325 MHz)**

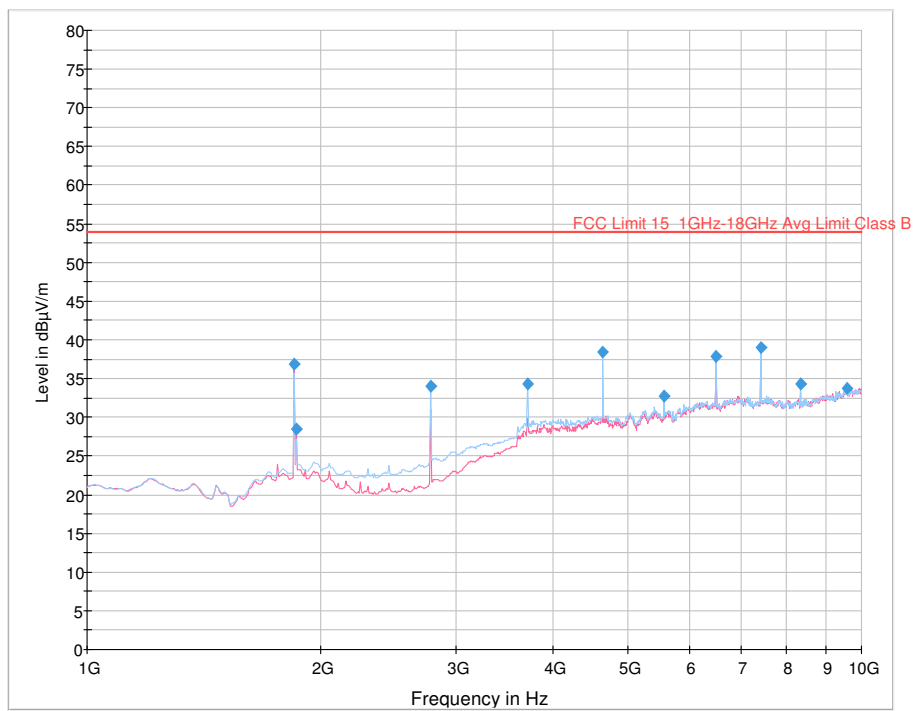
Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

**Antenna-1, Channel 4 (915.325 MHz)**

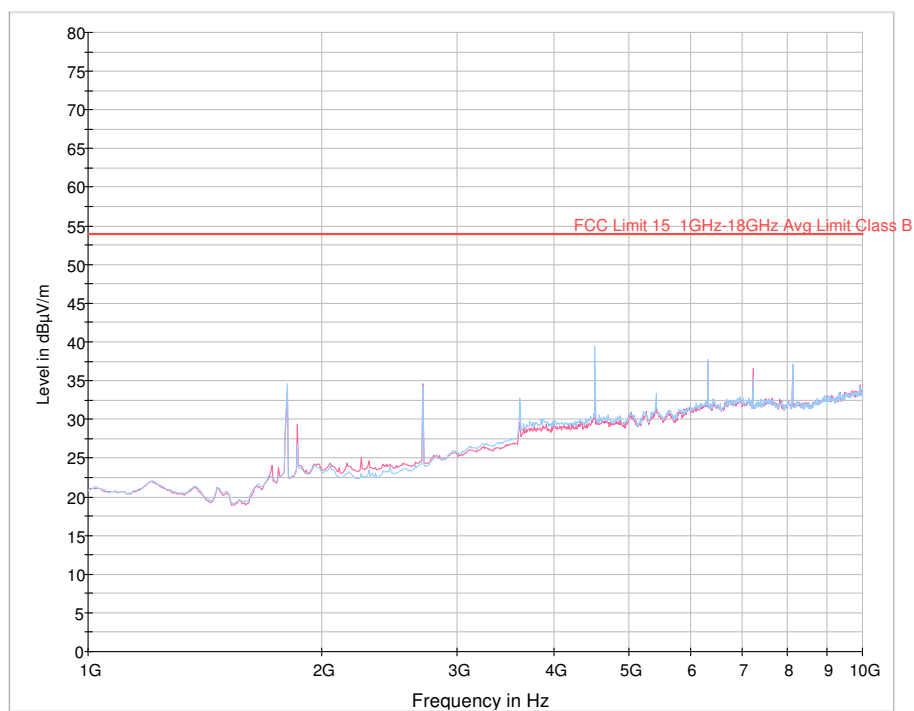
Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

**Antenna-1, Channel 5 (921.575 MHz)**

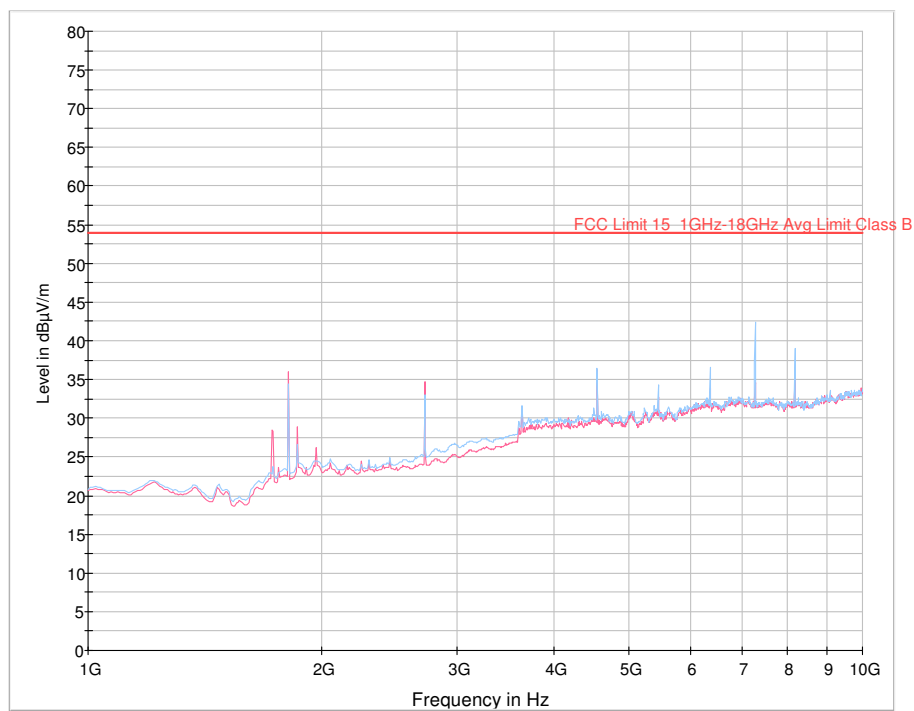
Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

**Antenna-1, Channel 6 (927.125 MHz)**

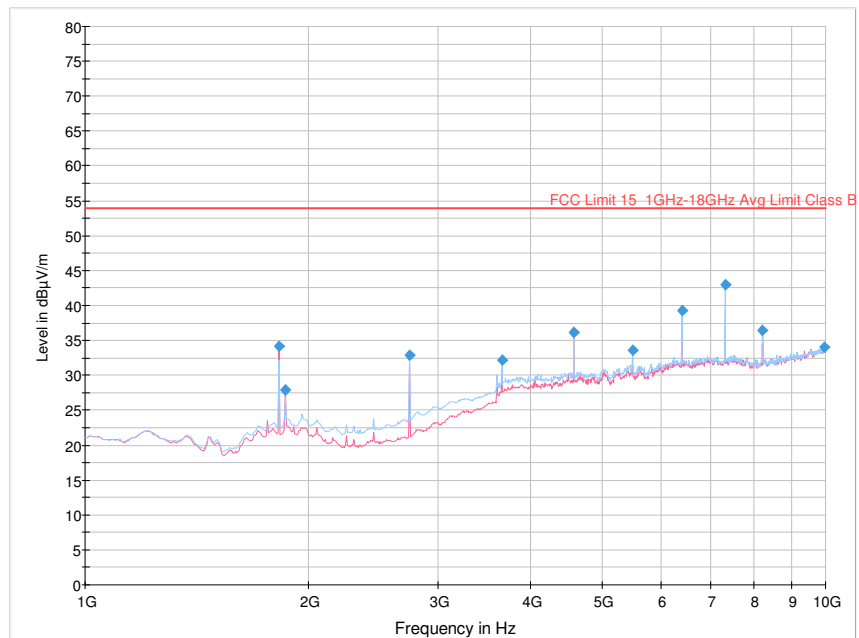
Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

**Antenna-2, Channel 1 (902.875 MHz)**

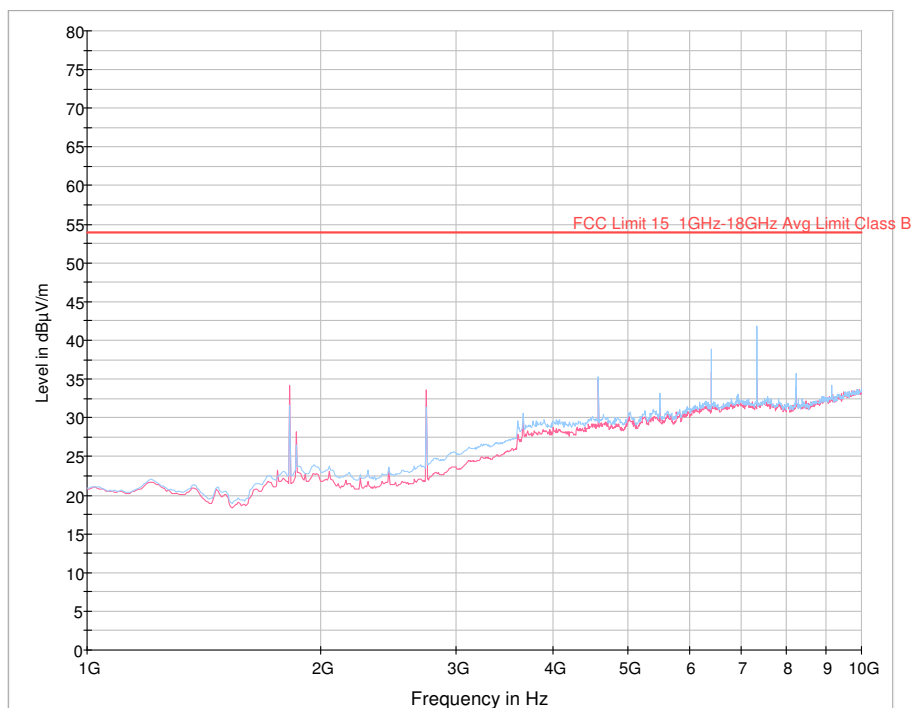
Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

**Antenna-2, Channel 2 (908.425 MHz)**

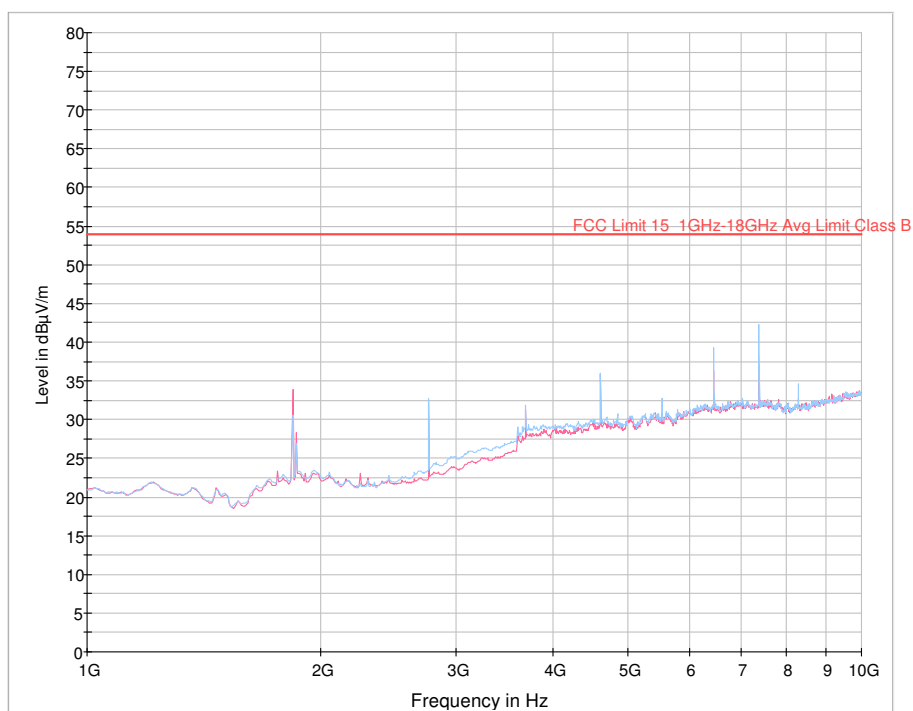
Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

**Antenna-2, Channel 3 (914.325 MHz)**

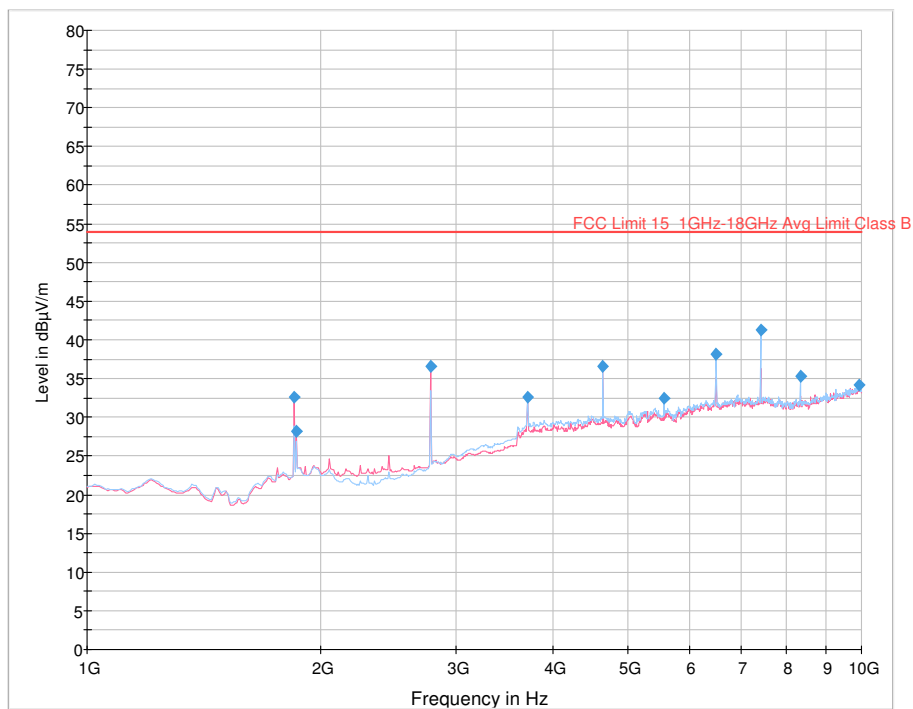
Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

**Antenna-2, Channel 4 (915.325 MHz)**

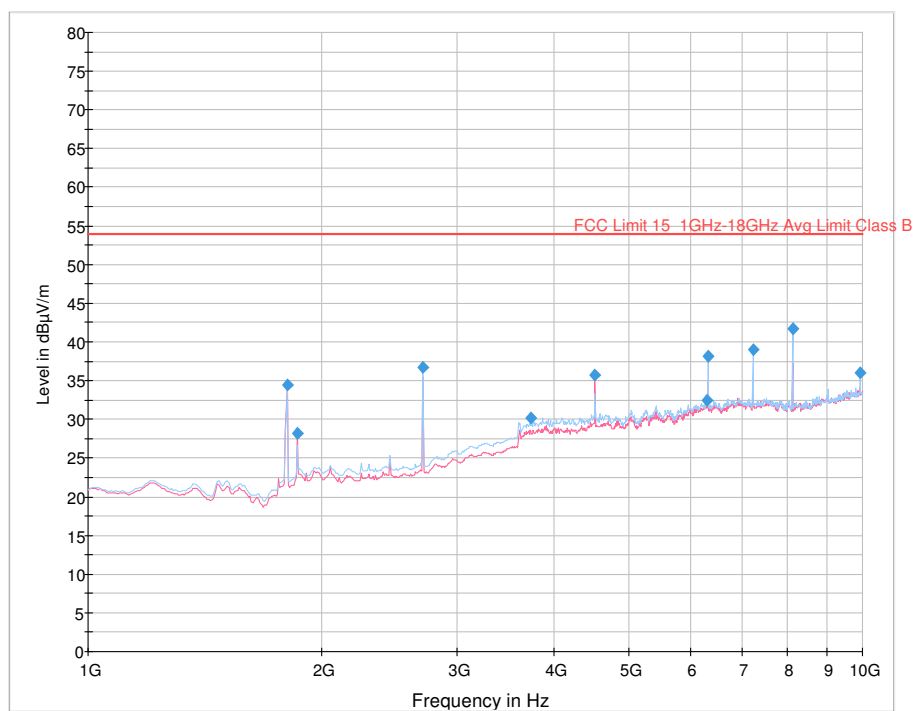
Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

**Antenna-2, Channel 5 (921.575 MHz)**

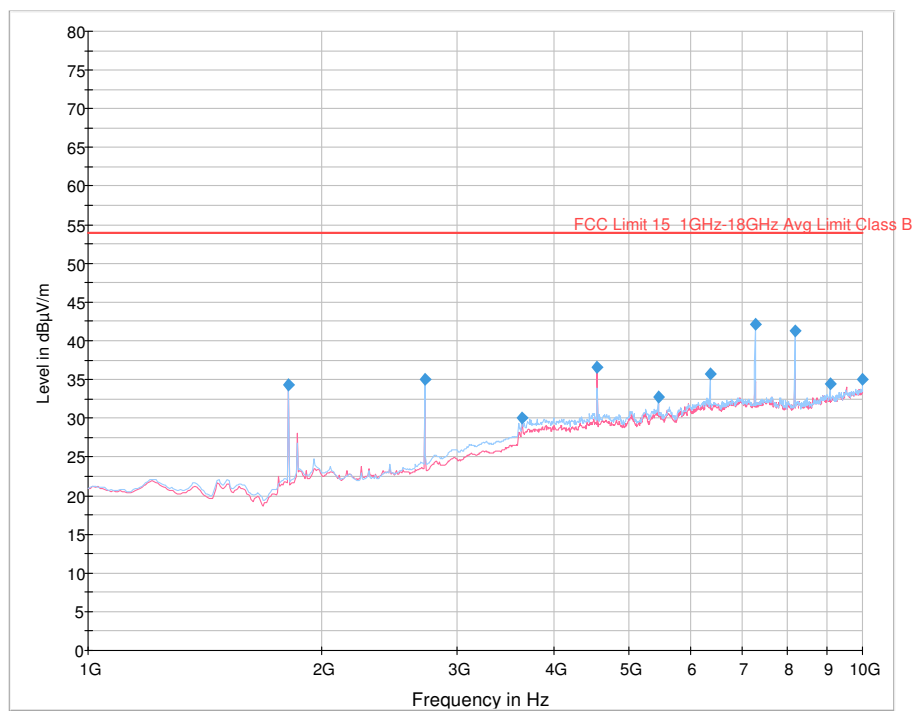
Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

**Antenna-2, Channel 6 (927.125 MHz)**

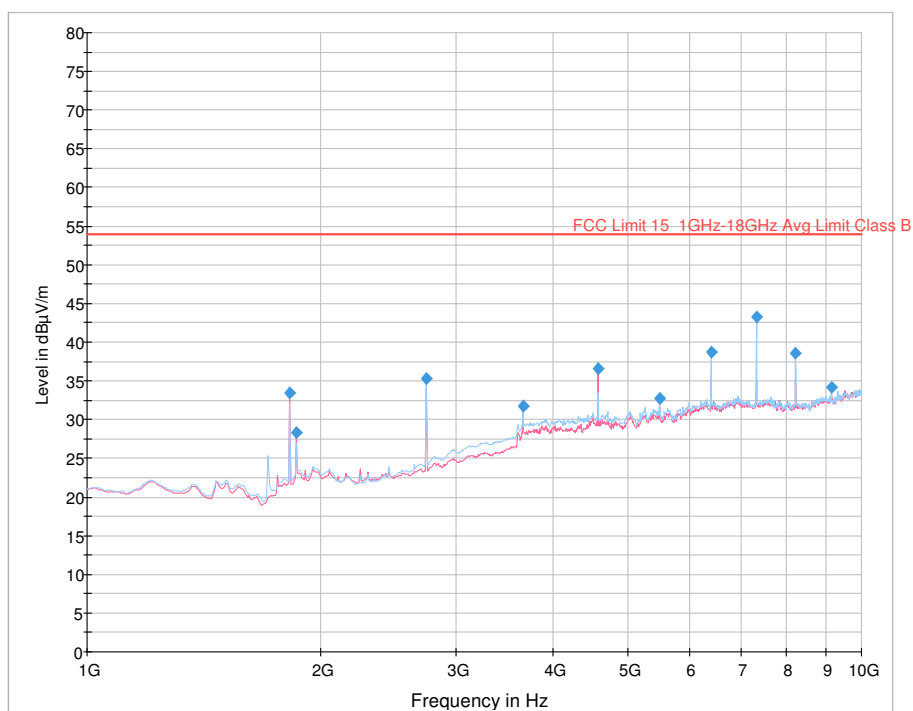
Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

**Antenna-3, Channel 1 (902.875 MHz)**

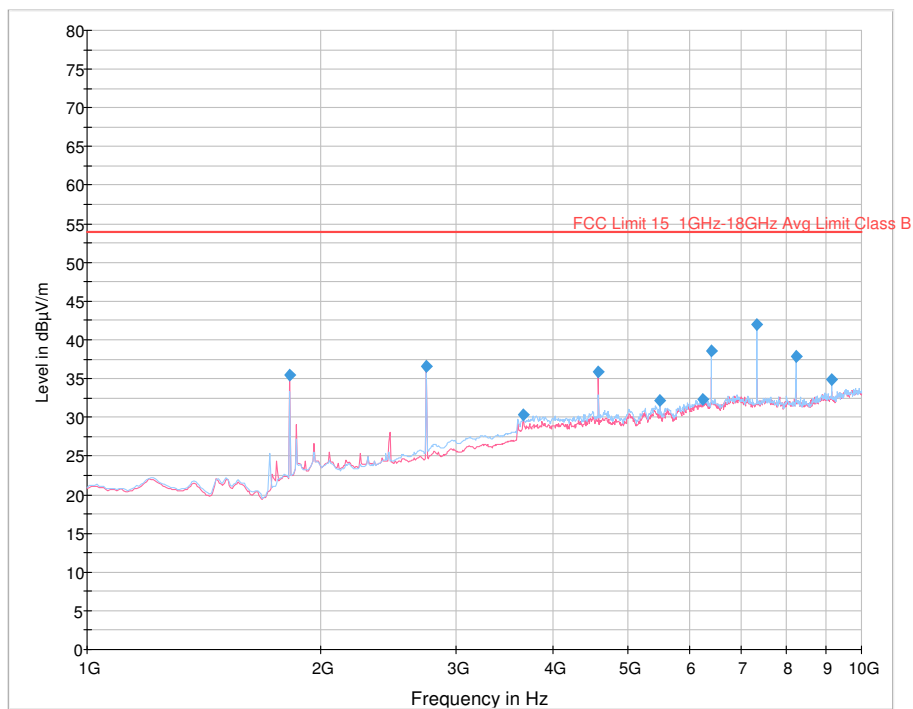
Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

**Antenna-3, Channel 2 (908.425 MHz)**

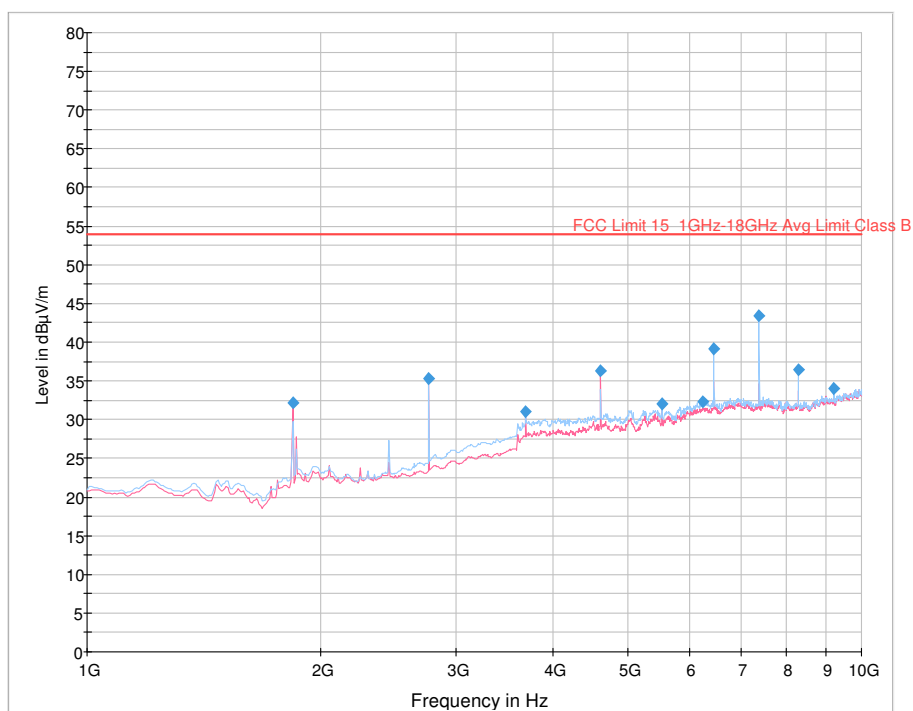
Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

**Antenna-3, Channel 3 (914.325 MHz)**

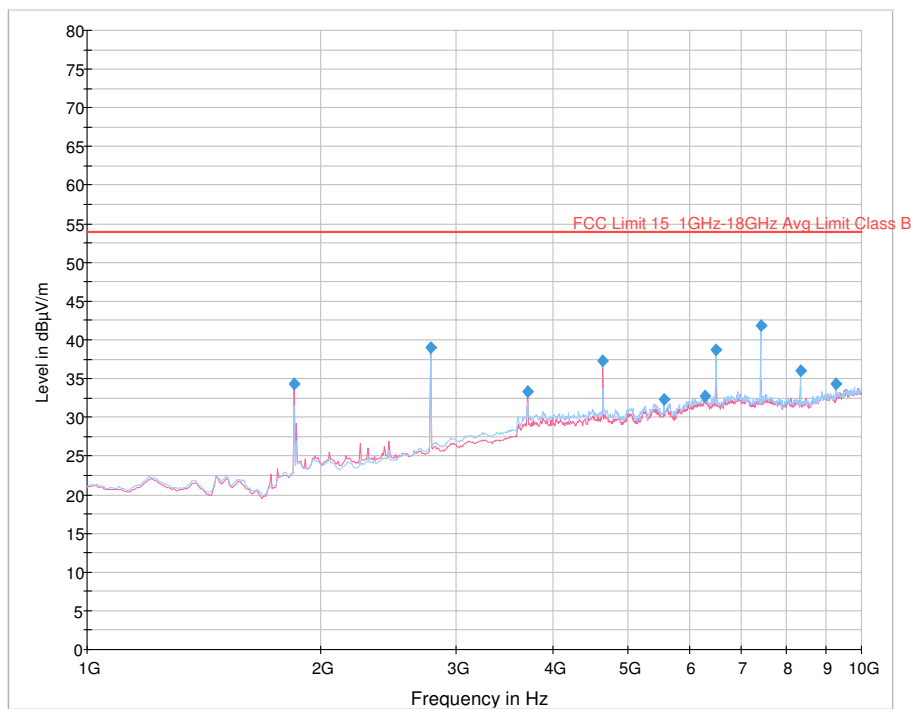
Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

**Antenna-3, Channel 4 (915.325 MHz)**

Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

**Antenna-3, Channel 5 (921.575 MHz)**

Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

**Antenna-3, Channel 6 (927.125 MHz)**

Note : Average Graph Vertical (Red), Average Graph Horizontal polarization (Blue)

TEST RESULT – 1 GHz to 10 GHz						RESTRICTED BAND – PEAK		
Channel	Frequency	Measured MaxPeak	Height	Ant Pol	Azimuth	Margin	Limit	Result
#	(MHz)	(dBμV/m)	(cm)	H / V	(deg)	(dB)	(dBμV/m)	
Antenna – 1								
CH-2	2724.40	54.09	250	H	24	19.91	74.00	PASS
CH-2	2726.20	54.55	250	H	24	19.45	74.00	PASS
CH-2	4540.60	50.07	200	H	24	23.93	74.00	PASS
CH-2	4543.60	49.29	200	H	0	24.71	74.00	PASS
CH-2	7265.20	51.88	200	V	336	22.12	74.00	PASS
CH-2	7265.80	50.12	200	V	24	23.88	74.00	PASS
CH-2	7268.50	50.21	200	V	336	23.79	74.00	PASS
CH-2	7269.10	50.68	200	V	336	23.32	74.00	PASS
CH-2	7269.70	52.20	200	V	336	21.80	74.00	PASS
CH-3	2742.10	54.57	250	H	24	19.43	74.00	PASS
CH-3	2743.90	54.48	250	H	24	19.52	74.00	PASS
CH-3	4570.00	49.27	200	H	0	24.73	74.00	PASS
CH-3	4573.00	50.01	200	H	336	23.99	74.00	PASS
CH-3	7312.60	51.28	200	V	336	22.72	74.00	PASS
CH-3	7313.50	50.00	200	V	336	24.00	74.00	PASS
CH-3	7314.70	49.24	200	V	336	24.76	74.00	PASS
CH-3	7315.90	50.27	200	V	24	23.73	74.00	PASS
CH-3	7317.10	51.73	200	V	336	22.27	74.00	PASS
CH-4	2745.10	54.36	1000	H	24	19.64	74.00	PASS
CH-4	2746.60	54.27	1000	H	24	19.73	74.00	PASS
CH-4	4575.10	49.70	1000	H	24	24.30	74.00	PASS
CH-4	4578.10	49.93	1000	H	312	24.07	74.00	PASS
CH-4	7320.10	50.24	1000	V	0	23.76	74.00	PASS
CH-4	7321.90	49.22	1000	V	24	24.79	74.00	PASS
CH-4	7324.30	49.87	1000	V	24	24.13	74.00	PASS
CH-4	7325.20	50.68	1000	V	336	23.32	74.00	PASS
CH-5	2763.70	54.73	250	H	24	19.27	74.00	PASS
CH-5	2764.60	54.36	250	H	24	19.64	74.00	PASS
CH-5	2765.50	55.07	250	H	24	18.93	74.00	PASS
CH-5	4606.30	49.64	200	H	24	24.36	74.00	PASS
CH-5	4609.30	49.52	200	H	24	24.48	74.00	PASS
CH-5	7370.20	52.16	200	V	24	21.84	74.00	PASS
CH-5	7373.20	49.36	200	V	336	24.65	74.00	PASS
CH-5	7375.00	51.73	150	V	0	22.27	74.00	PASS
CH-6	2780.50	53.85	250	H	24	20.15	74.00	PASS
CH-6	2782.30	53.86	250	H	24	20.14	74.00	PASS
CH-6	7414.60	54.33	200	V	336	19.67	74.00	PASS
CH-6	7416.70	50.97	150	V	0	23.03	74.00	PASS
CH-6	7417.30	51.04	200	H	120	22.96	74.00	PASS
CH-6	7418.20	52.47	200	V	336	21.53	74.00	PASS

CH-6	7419.10	54.52	200	V	336	19.48	74.00	PASS
Antenna-2								
CH-1	2707.60	50.84	250	H	0	23.16	74.00	PASS
CH-1	2708.50	51.60	250	H	312	22.40	74.00	PASS
CH-1	2709.40	52.15	250	H	312	21.86	74.00	PASS
CH-2	2724.40	50.37	250	H	5	23.63	74.00	PASS
CH-2	2725.90	49.58	250	H	0	24.42	74.00	PASS
CH-2	7265.20	54.75	200	H	321	19.25	74.00	PASS
CH-2	7266.70	52.12	200	H	5	21.88	74.00	PASS
CH-2	7267.30	52.59	200	H	0	21.41	74.00	PASS
CH-2	7268.80	53.33	200	H	0	20.67	74.00	PASS
CH-2	7270.00	54.57	200	H	0	19.43	74.00	PASS
CH-2	8178.40	49.58	200	H	31	24.42	74.00	PASS
CH-3	2742.10	50.99	250	H	354	23.01	74.00	PASS
CH-3	7312.30	55.67	200	H	328	18.33	74.00	PASS
CH-3	7313.50	53.43	200	H	317	20.57	74.00	PASS
CH-3	7314.40	53.02	200	H	317	20.98	74.00	PASS
CH-3	7315.00	53.09	200	H	328	20.91	74.00	PASS
CH-3	7317.10	55.36	200	H	317	18.64	74.00	PASS
CH-4	2744.80	49.99	250	H	346	24.01	74.00	PASS
CH-4	2745.40	51.31	250	H	346	22.69	74.00	PASS
CH-4	2746.60	51.55	250	H	346	22.45	74.00	PASS
CH-4	7320.40	54.68	200	H	318	19.32	74.00	PASS
CH-4	7321.90	53.20	200	H	341	20.80	74.00	PASS
CH-4	7323.40	53.02	200	H	341	20.98	74.00	PASS
CH-4	7324.00	53.64	200	H	341	20.36	74.00	PASS
CH-4	7325.20	55.23	200	H	341	18.77	74.00	PASS
CH-5	2763.70	52.03	250	H	347	21.97	74.00	PASS
CH-5	2764.90	51.29	250	H	339	22.71	74.00	PASS
CH-5	2765.50	52.18	250	H	339	21.82	74.00	PASS
CH-5	7370.50	54.65	200	H	339	19.35	74.00	PASS
CH-5	7371.40	53.36	200	H	318	20.64	74.00	PASS
CH-5	7373.50	53.09	200	H	318	20.92	74.00	PASS
CH-5	7375.00	55.55	200	H	318	18.45	74.00	PASS
CH-5	7375.60	51.66	200	H	318	22.34	74.00	PASS
CH-6	2780.50	54.67	250	H	337	19.33	74.00	PASS
CH-6	2781.10	54.14	250	H	337	19.86	74.00	PASS
CH-6	2781.70	54.26	250	H	337	19.74	74.00	PASS
CH-6	7415.20	54.62	200	H	318	19.38	74.00	PASS
CH-6	7416.10	53.52	200	H	318	20.49	74.00	PASS
CH-6	7418.20	53.61	200	H	318	20.40	74.00	PASS
CH-6	7419.10	55.51	200	H	318	18.49	74.00	PASS
CH-6	7419.70	53.33	200	H	318	20.67	74.00	PASS
Antenna-3								

CH-1	2707.60	49.51	250	V	317	24.49	74.00	PASS
CH-1	2708.20	49.31	100	H	32	24.69	74.00	PASS
CH-1	2709.40	49.83	250	V	317	24.17	74.00	PASS
CH-1	8123.20	52.79	200	H	20	21.21	74.00	PASS
CH-1	8125.30	50.89	200	H	296	23.11	74.00	PASS
CH-1	8126.80	50.48	200	H	296	23.52	74.00	PASS
CH-1	8128.60	52.48	200	H	20	21.52	74.00	PASS
CH-2	7265.20	54.33	200	H	354	19.67	74.00	PASS
CH-2	7265.80	53.17	200	H	245	20.83	74.00	PASS
CH-2	7267.90	51.92	200	H	0	22.08	74.00	PASS
CH-2	7268.50	52.44	200	H	0	21.56	74.00	PASS
CH-2	7269.70	54.94	200	H	23	19.06	74.00	PASS
CH-2	8173.60	51.50	200	H	293	22.50	74.00	PASS
CH-2	8174.20	49.59	200	H	283	24.41	74.00	PASS
CH-2	8177.50	50.23	200	H	23	23.77	74.00	PASS
CH-2	8178.70	51.69	200	H	293	22.31	74.00	PASS
CH-3	2741.80	49.72	100	H	0	24.28	74.00	PASS
CH-3	2743.60	51.39	100	H	0	22.61	74.00	PASS
CH-3	7312.60	54.93	200	H	19	19.07	74.00	PASS
CH-3	7313.80	53.84	200	H	0	20.16	74.00	PASS
CH-3	7314.70	53.42	200	H	27	20.58	74.00	PASS
CH-3	7317.10	55.71	200	H	0	18.29	74.00	PASS
CH-3	8226.40	51.19	200	H	298	22.82	74.00	PASS
CH-3	8227.00	49.88	200	H	298	24.12	74.00	PASS
CH-3	8231.80	50.52	200	H	308	23.48	74.00	PASS
CH-4	2745.40	49.38	250	V	329	24.62	74.00	PASS
CH-4	2746.90	50.56	250	V	341	23.45	74.00	PASS
CH-4	7319.80	54.38	200	H	240	19.62	74.00	PASS
CH-4	7320.40	55.86	200	H	240	18.14	74.00	PASS
CH-4	7323.40	53.77	200	H	240	20.23	74.00	PASS
CH-4	7324.30	54.40	200	H	12	19.60	74.00	PASS
CH-4	7325.20	56.01	200	H	240	17.99	74.00	PASS
CH-4	8235.40	50.83	200	H	287	23.17	74.00	PASS
CH-4	8236.60	49.13	200	H	287	24.87	74.00	PASS
CH-4	8239.90	49.62	200	H	287	24.38	74.00	PASS
CH-4	8240.80	50.66	200	H	287	23.35	74.00	PASS
CH-5	2764.00	50.05	250	V	318	23.95	74.00	PASS
CH-5	2765.50	50.41	250	V	318	23.59	74.00	PASS
CH-5	7370.50	55.95	200	H	239	18.05	74.00	PASS
CH-5	7371.10	54.96	200	H	239	19.04	74.00	PASS
CH-5	7373.80	53.63	200	H	8	20.37	74.00	PASS
CH-5	7374.70	55.20	200	H	8	18.80	74.00	PASS
CH-5	7375.30	55.40	200	H	354	18.60	74.00	PASS
CH-5	8291.50	49.30	200	H	328	24.70	74.00	PASS

CH-6	2780.50	51.55	100	H	10	22.45	74.00	PASS
CH-6	2781.10	49.64	100	H	27	24.36	74.00	PASS
CH-6	2782.00	51.45	100	H	10	22.55	74.00	PASS
CH-6	7415.20	56.73	200	H	247	17.27	74.00	PASS
CH-6	7416.10	54.27	200	H	0	19.74	74.00	PASS
CH-6	7416.70	54.44	200	H	18	19.56	74.00	PASS
CH-6	7418.80	56.53	200	H	247	17.47	74.00	PASS
CH-6	7419.40	56.10	200	H	238	17.90	74.00	PASS

Note :

Measured Field Strength (dBuV/m) = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss - Pre amplifier Gain (dB)

TEST RESULT – 1 GHz to 10 GHz						RESTRICTED BAND – AVERAGE		
Channel	Frequency	Measured Average	Height	Ant Pol	Azimuth	Margin	Limit	Result
#	(MHz)	(dBμV/m)	(cm)	H / V	(deg)	(dB)	(dBμV/m)	
Antenna – 1								
CH-1	2706.40	42.07	250.00	H	30.00	11.93	54.00	PASS
CH-1	3613.60	33.80	250.00	H	352.00	20.20	54.00	PASS
CH-1	4513.60	39.14	200.00	H	36.00	14.86	54.00	PASS
CH-1	5420.80	33.77	200.00	H	313.00	20.23	54.00	PASS
CH-1	8128.00	36.02	250.00	H	78.00	17.98	54.00	PASS
CH-2	2720.80	40.79	250.00	H	36.00	13.21	54.00	PASS
CH-2	3635.20	33.53	250.00	H	0.00	20.47	54.00	PASS
CH-2	4542.40	38.67	200.00	H	343.00	15.33	54.00	PASS
CH-2	5449.60	33.49	200.00	H	315.00	20.51	54.00	PASS
CH-2	7271.20	38.86	200.00	V	329.00	15.14	54.00	PASS
CH-2	8178.40	36.28	250.00	H	84.00	17.72	54.00	PASS
CH-3	2742.40	41.35	250.00	H	36.00	12.65	54.00	PASS
CH-3	3656.80	34.06	250.00	H	350.00	19.94	54.00	PASS
CH-3	4571.20	38.32	200.00	H	331.00	15.68	54.00	PASS
CH-3	7314.40	39.15	200.00	V	23.00	14.85	54.00	PASS
CH-3	8228.80	35.08	250.00	H	101.00	18.92	54.00	PASS
CH-4	2742.40	40.47	250.00	H	36.00	13.53	54.00	PASS
CH-4	3664.00	31.55	250.00	H	12.00	22.45	54.00	PASS
CH-4	4578.40	37.91	200.00	H	23.00	16.09	54.00	PASS
CH-4	7321.60	38.23	200.00	V	0.00	15.77	54.00	PASS
CH-4	8243.20	35.08	250.00	H	96.00	18.92	54.00	PASS
CH-5	2764.00	39.85	250.00	H	30.00	14.15	54.00	PASS
CH-5	3685.60	33.42	250.00	H	0.00	20.58	54.00	PASS
CH-5	4607.20	37.63	200.00	H	348.00	16.37	54.00	PASS
CH-5	7372.00	38.61	200.00	V	35.00	15.39	54.00	PASS
CH-5	8293.60	35.84	250.00	H	107.00	18.16	54.00	PASS
CH-6	2778.40	34.08	100.00	H	36.00	19.92	54.00	PASS
CH-6	3707.20	34.36	200.00	H	29.00	19.64	54.00	PASS
CH-6	4636.00	38.38	200.00	H	337.00	15.62	54.00	PASS

CH-6	7415.20	39.05	200.00	V	335.00	14.95	54.00	PASS
CH-6	8344.00	34.32	200.00	H	69.00	19.68	54.00	PASS
Antenna-2								
CH-1	2706.40	34.53	200.00	V	347.00	19.47	54.00	PASS
CH-1	3613.60	32.67	200.00	H	51.00	21.33	54.00	PASS
CH-1	4513.60	39.38	200.00	H	45.00	14.62	54.00	PASS
CH-1	5420.80	33.35	200.00	H	319.00	20.65	54.00	PASS
CH-1	8128.00	37.15	200.00	H	51.00	16.85	54.00	PASS
CH-2	2720.80	34.73	100.00	V	47.00	19.27	54.00	PASS
CH-2	3635.20	31.55	200.00	H	324.00	22.45	54.00	PASS
CH-2	4542.40	36.45	200.00	H	37.00	17.55	54.00	PASS
CH-2	5449.60	34.29	200.00	H	79.00	19.71	54.00	PASS
CH-2	7271.20	42.46	200.00	H	0.00	11.54	54.00	PASS
CH-2	8178.40	39.07	200.00	H	318.00	14.93	54.00	PASS
CH-3	2742.40	32.85	100.00	H	319.00	21.15	54.00	PASS
CH-3	3656.80	32.15	200.00	H	313.00	21.85	54.00	PASS
CH-3	4571.20	36.11	200.00	H	78.00	17.89	54.00	PASS
CH-3	7314.40	43.01	200.00	H	331.00	10.99	54.00	PASS
CH-3	8228.80	36.48	200.00	H	61.00	17.52	54.00	PASS
CH-4	2742.40	33.55	100.00	V	18.00	20.45	54.00	PASS
CH-4	3656.80	30.66	200.00	H	324.00	23.34	54.00	PASS
CH-4	4578.40	35.33	200.00	H	81.00	18.67	54.00	PASS
CH-4	7321.60	41.82	200.00	H	342.00	12.18	54.00	PASS
CH-4	8243.20	35.79	200.00	H	39.00	18.21	54.00	PASS
CH-4	9157.60	34.18	150.00	H	347.00	19.82	54.00	PASS
CH-5	2764.00	32.68	200.00	H	0.00	21.32	54.00	PASS
CH-5	3685.60	31.94	200.00	H	306.00	22.06	54.00	PASS
CH-5	4607.20	36.07	200.00	H	67.00	17.93	54.00	PASS
CH-5	7372.00	42.22	200.00	H	342.00	11.78	54.00	PASS
CH-5	8293.60	34.66	200.00	H	61.00	19.34	54.00	PASS
CH-5	2778.40	36.53	100.00	V	23.00	17.47	54.00	PASS
CH-5	3707.20	32.59	200.00	H	307.00	21.41	54.00	PASS
CH-5	4636.00	36.52	200.00	H	73.00	17.48	54.00	PASS
CH-5	7422.40	41.28	200.00	H	325.00	12.72	54.00	PASS
CH-5	8344.00	35.27	200.00	H	73.00	18.73	54.00	PASS
CH-6	2706.40	36.69	100.00	H	35.00	17.31	54.00	PASS
CH-6	3736.00	30.24	200.00	H	240.00	23.76	54.00	PASS
CH-6	4513.60	35.70	100.00	V	317.00	18.30	54.00	PASS
CH-6	8128.00	41.70	200.00	H	306.00	12.30	54.00	PASS
Antenna-3								
CH-1	2706.40	36.69	100.00	H	35.00	17.31	54.00	PASS
CH-1	3736.00	30.24	200.00	H	240.00	23.76	54.00	PASS
CH-1	4513.60	35.70	100.00	V	317.00	18.30	54.00	PASS
CH-1	8128.00	41.70	200.00	H	306.00	12.30	54.00	PASS

CH-2	2720.80	34.97	100.00	H	35.00	19.03	54.00	PASS
CH-2	3635.20	29.97	100.00	H	23.00	24.03	54.00	PASS
CH-2	4542.40	36.58	100.00	V	314.00	17.42	54.00	PASS
CH-2	5449.60	32.71	200.00	H	276.00	21.29	54.00	PASS
CH-2	7271.20	42.07	200.00	H	25.00	11.93	54.00	PASS
CH-2	8178.40	41.21	200.00	H	300.00	12.79	54.00	PASS
CH-2	9085.60	34.41	200.00	H	0.00	19.59	54.00	PASS
CH-3	2742.40	35.27	100.00	H	39.00	18.73	54.00	PASS
CH-3	3656.80	31.68	100.00	V	314.00	22.32	54.00	PASS
CH-3	4571.20	36.60	100.00	V	314.00	17.40	54.00	PASS
CH-3	7314.40	43.31	200.00	H	26.00	10.69	54.00	PASS
CH-3	8228.80	38.51	200.00	H	298.00	15.49	54.00	PASS
CH-3	9143.20	34.11	200.00	H	0.00	19.89	54.00	PASS
CH-4	2742.40	36.58	100.00	V	313.00	17.42	54.00	PASS
CH-4	3664.00	30.34	200.00	H	234.00	23.66	54.00	PASS
CH-4	4578.40	35.94	100.00	V	342.00	18.06	54.00	PASS
CH-4	7321.60	42.05	200.00	H	26.00	11.95	54.00	PASS
CH-4	8243.20	37.92	200.00	H	300.00	16.08	54.00	PASS
CH-4	9157.60	34.87	200.00	H	20.00	19.13	54.00	PASS
CH-5	2764.00	35.24	150.00	H	0.00	18.76	54.00	PASS
CH-5	3685.60	31.04	100.00	V	314.00	22.96	54.00	PASS
CH-5	4607.20	36.29	100.00	V	314.00	17.71	54.00	PASS
CH-5	7372.00	43.43	200.00	H	240.00	10.57	54.00	PASS
CH-5	8293.60	36.40	200.00	H	294.00	17.60	54.00	PASS
CH-6	2778.40	39.01	100.00	V	313.00	14.99	54.00	PASS
CH-6	3707.20	33.35	100.00	V	313.00	20.65	54.00	PASS
CH-6	4636.00	37.29	100.00	V	319.00	16.71	54.00	PASS
CH-6	7415.20	41.84	200.00	H	250.00	12.16	54.00	PASS
CH-6	8344.00	36.05	200.00	H	311.00	17.95	54.00	PASS

Note :

Measured Field Strength (dBuV/m) = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss - Pre amplifier Gain (dB)

TEST RESULT – 1 GHz to 10 GHz							NON-RESTRICTED BAND – PEAK		
Channel	Measured Fundamental	Frequency	Measured Peak field Strength	Height	Ant Pol	Azimuth	Peak Limit (Fundamental-20dB)	Margin	Result
#	(dBμV/m)	(MHz)	(dBμV/m)	(cm)	H / V	(deg)	(dBμV/m)	(dB)	
Antenna – 1									
CH-1	100.62	7220.80	53.20	100	V	24	27.42	80.62	PASS
CH-1	100.62	7221.40	52.25	100	V	24	28.37	80.62	PASS
CH-1	100.62	7222.90	51.27	100	V	24	29.35	80.62	PASS
CH-1	100.62	7223.80	51.29	100	V	24	29.33	80.62	PASS
CH-1	100.62	7225.30	53.57	100	V	24	27.05	80.62	PASS
CH-4	100.94	1955.80	36.46	1000	H	312	44.49	80.94	PASS
CH-4	100.94	1957.30	36.43	1000	H	312	44.51	80.94	PASS
CH-5	101.60	6453.10	49.32	200	H	336	32.28	81.60	PASS
CH-6	101.76	1853.50	50.20	100	H	0	31.56	81.76	PASS
CH-6	101.76	1854.10	50.94	250	V	192	30.83	81.76	PASS
CH-6	101.76	1854.70	51.21	250	V	192	30.56	81.76	PASS
Antenna-2									
CH-1	101.98	1805.20	51.58	100	V	0	30.40	81.98	PASS
CH-1	101.98	1806.10	51.14	100	V	0	30.84	81.98	PASS
CH-1	101.98	7220.50	53.73	200	H	0	28.25	81.98	PASS
CH-1	101.98	7221.40	51.71	200	H	336	30.27	81.98	PASS
CH-1	101.98	7223.50	51.33	200	H	0	30.65	81.98	PASS
CH-1	101.98	7224.40	51.59	200	H	96	30.39	81.98	PASS
CH-1	101.98	7225.60	53.14	200	H	96	28.84	81.98	PASS
CH-2	102.27	1725.40	33.47	100	H	243	48.80	82.27	PASS
CH-2	102.27	1977.40	32.74	100	V	192	49.53	82.27	PASS
CH-3	101.27	6398.50	50.64	200	H	340	30.63	81.27	PASS
CH-4	101.12	6405.40	49.64	200	H	341	31.48	81.12	PASS
CH-5	98.72	6452.50	49.55	200	H	339	29.18	78.72	PASS
CH-6	100.60	6488.20	51.05	200	H	341	29.56	80.60	PASS
Antenna-3									
CH-1	99.20	1804.90	47.66	200	V	348	31.54	79.20	PASS
CH-1	99.20	1805.80	48.57	200	V	348	30.64	79.20	PASS
CH-1	99.20	6321.70	47.52	250	H	0	31.69	79.20	PASS
CH-1	99.20	7221.10	52.35	200	H	0	26.86	79.20	PASS
CH-1	99.20	7221.70	51.74	200	H	20	27.46	79.20	PASS
CH-1	99.20	7223.80	51.07	200	H	0	28.13	79.20	PASS
CH-1	99.20	7224.70	52.13	200	H	256	27.08	79.20	PASS
CH-1	99.20	7225.30	53.07	200	H	246	26.13	79.20	PASS
CH-2	100.67	6361.30	48.42	200	H	5	32.25	80.67	PASS
CH-3	100.05	6399.10	48.18	250	H	77	31.87	80.05	PASS
CH-4	102.25	6405.40	49.68	200	H	0	32.57	82.25	PASS
CH-5	100.46	6448.90	49.57	250	H	65	30.89	80.46	PASS
CH-6	101.59	6492.10	51.19	200	H	10	30.40	81.59	PASS

Note :

Measured Field Strength (dBuV/m) = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss - Pre amplifier Gain (dB)