

**AC Line Conducted Emissions (Graph)**

Test Mode: U-NII 1 & TM 1 & MIMO(CDD) & 5 240 MHz

**Results of Conducted Emission**

DTNC

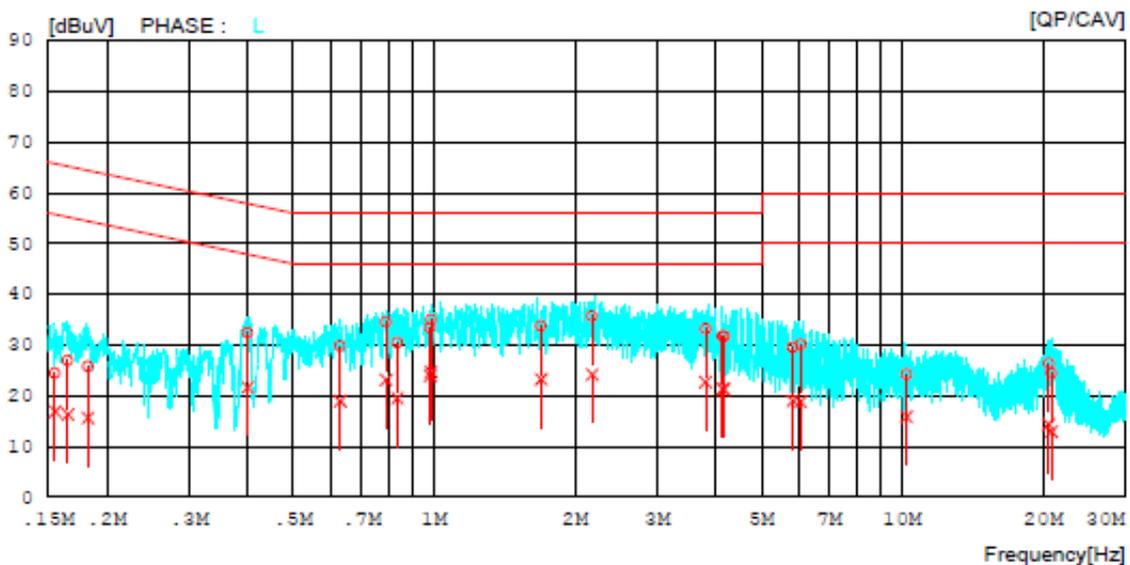
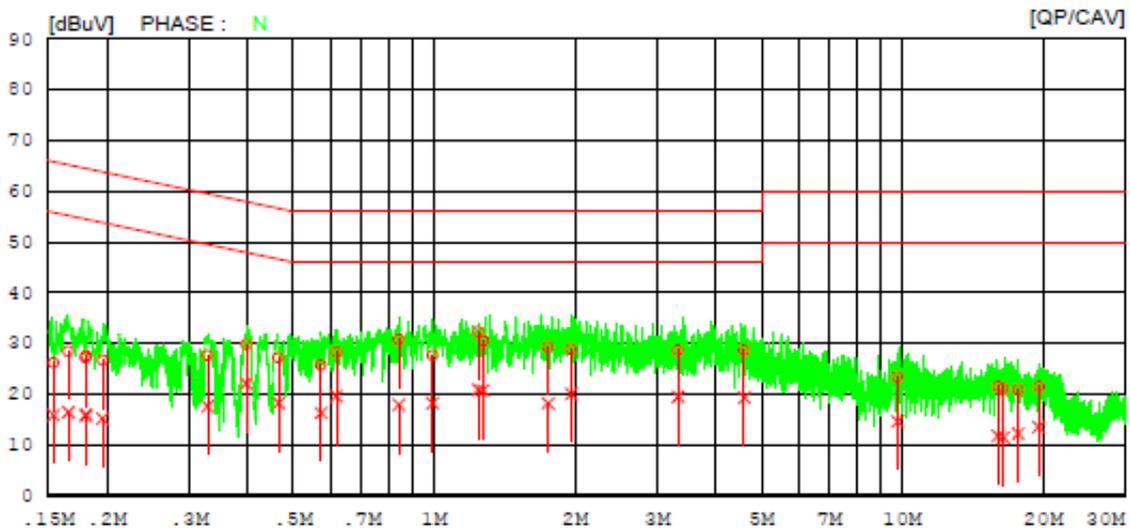
Date 2020-05-08

Order No. DTNC2004-03119  
 Model No. LM-G910HMW  
 Serial No.  
 Test Condition 5.1GHz

Reference No.  
 Power Supply 120 V, 60 Hz  
 Temp/Humi. 23 °C / 42 %  
 Operator InHee Bae

Memo

LIMIT : FCC P15.207 QP  
 FCC P15.207 AV



**AC Line Conducted Emissions (Data List)**

Test Mode: U-NII 1 & TM 1 & MIMO(CDD) & 5 240 MHz

**Results of Conducted Emission**

DTNC Date 2020-05-08

Order No.	DTNC2004-03119	Reference No.	
Model No.	LM-G910HMW	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 °C / 42 %
Test Condition	5.1GHz	Operator	InHee Bae

Memo

LIMIT : FCC P15.207 QP  
FCC P15.207 AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]			
1	0.15378	16.13	5.82	10.00	26.13	15.82	65.79	55.79	39.66	39.97	N
2	0.16547	18.42	6.40	10.02	28.44	16.42	65.18	55.18	36.74	38.76	N
3	0.18033	17.13	5.71	10.02	27.15	15.73	64.47	54.47	37.32	38.74	N
4	0.18062	17.42	5.91	10.02	27.44	15.93	64.46	54.46	37.02	38.53	N
5	0.19573	16.64	5.12	10.02	26.66	15.14	63.79	53.79	37.13	38.65	N
6	0.32795	17.55	7.48	10.04	27.59	17.52	59.50	49.50	31.91	31.98	N
7	0.39673	19.65	12.01	10.06	29.71	22.07	57.92	47.92	28.21	25.85	N
8	0.46539	17.12	8.21	10.06	27.18	18.27	56.60	46.60	29.42	28.33	N
9	0.57287	18.66	6.19	10.06	25.72	16.25	56.00	46.00	30.28	29.75	N
10	0.61798	18.27	9.58	10.05	28.32	19.63	56.00	46.00	27.68	26.37	N
11	0.84029	20.75	7.84	10.06	30.81	17.90	56.00	46.00	25.19	28.10	N
12	0.99300	17.59	8.20	10.06	27.65	18.26	56.00	46.00	28.35	27.74	N
13	1.24308	22.21	10.77	10.07	32.28	20.84	56.00	46.00	23.72	25.16	N
14	1.27309	20.38	10.64	10.07	30.45	20.71	56.00	46.00	25.55	25.29	N
15	1.75103	19.22	8.11	10.09	29.31	18.20	56.00	46.00	26.69	27.80	N
16	1.96174	18.78	9.98	10.10	28.88	20.08	56.00	46.00	27.12	25.92	N
17	3.31809	18.41	9.28	10.17	28.58	19.45	56.00	46.00	27.42	26.55	N
18	4.59845	18.43	9.08	10.21	28.64	19.29	56.00	46.00	27.36	26.71	N
19	9.77478	13.03	4.23	10.35	23.38	14.58	60.00	50.00	36.62	35.42	N
20	16.03923	11.02	1.32	10.46	21.48	11.78	60.00	50.00	38.52	38.22	N
21	16.44154	10.52	0.95	10.47	20.99	11.42	60.00	50.00	39.01	38.58	N
22	17.69102	10.37	1.75	10.49	20.86	12.24	60.00	50.00	39.14	37.76	N
23	19.59390	10.97	3.00	10.53	21.50	13.53	60.00	50.00	38.50	36.47	N
24	0.15500	14.41	6.79	10.01	24.42	16.80	65.73	55.73	41.31	38.93	L
25	0.16500	16.86	6.22	10.01	26.87	16.23	65.21	55.21	38.34	38.98	L
26	0.18210	15.72	5.55	10.01	25.73	15.56	64.39	54.39	38.66	38.83	L
27	0.39984	22.26	11.56	10.04	32.30	21.60	57.86	47.86	25.56	26.26	L
28	0.62979	19.69	8.81	10.05	29.74	18.86	56.00	46.00	26.26	27.14	L
29	0.78889	24.41	12.98	10.06	34.47	23.04	56.00	46.00	21.53	22.96	L
30	0.83477	20.33	9.39	10.06	30.39	19.45	56.00	46.00	25.61	26.55	L
31	0.98513	24.88	14.55	10.06	34.94	24.61	56.00	46.00	21.06	21.39	L
32	0.98028	23.28	13.82	10.06	33.34	23.88	56.00	46.00	22.66	22.12	L
33	1.69113	23.66	13.06	10.10	33.76	23.16	56.00	46.00	22.24	22.84	L
34	2.17627	25.57	13.96	10.12	35.69	24.08	56.00	46.00	20.31	21.92	L
35	3.80285	22.95	12.44	10.18	33.13	22.62	56.00	46.00	22.87	23.38	L
36	4.13353	21.51	11.09	10.18	31.69	21.27	56.00	46.00	24.31	24.73	L
37	4.16387	21.45	11.12	10.18	31.63	21.30	56.00	46.00	24.37	24.70	L
38	5.84465	19.31	8.69	10.24	29.55	18.93	60.00	50.00	30.45	31.07	L
39	6.07081	19.87	8.53	10.24	30.11	18.77	60.00	50.00	29.89	31.23	L
40	10.21683	13.82	5.43	10.34	24.16	15.77	60.00	50.00	35.84	34.23	L
41	20.55578	15.80	3.78	10.50	26.30	14.28	60.00	50.00	33.70	35.72	L
42	20.83332	13.90	2.30	10.51	24.41	12.81	60.00	50.00	35.59	37.19	L

**AC Line Conducted Emissions (Graph)**

Test Mode: U-NII 2A & TM 1 & MIMO(CDD) & 5 320 MHz

**Results of Conducted Emission**

DTNC

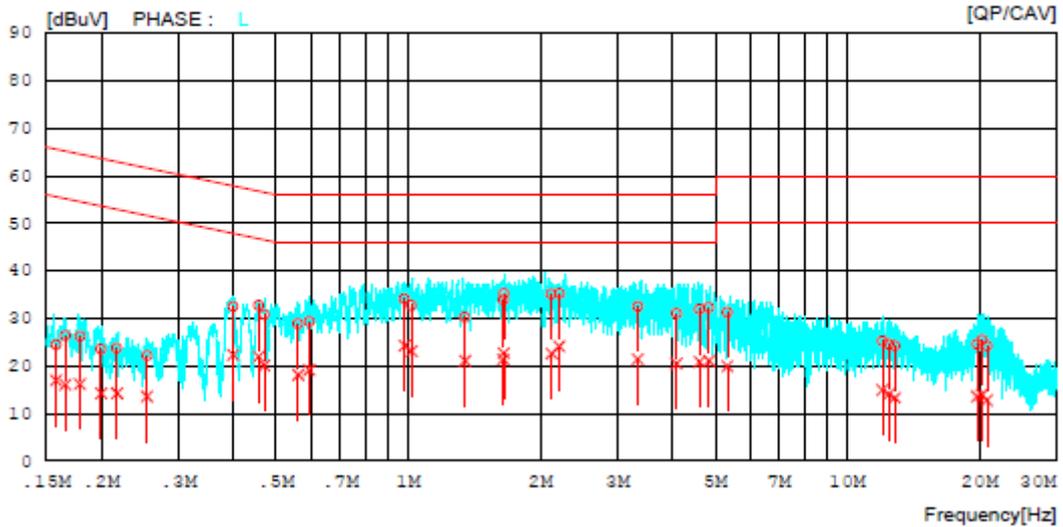
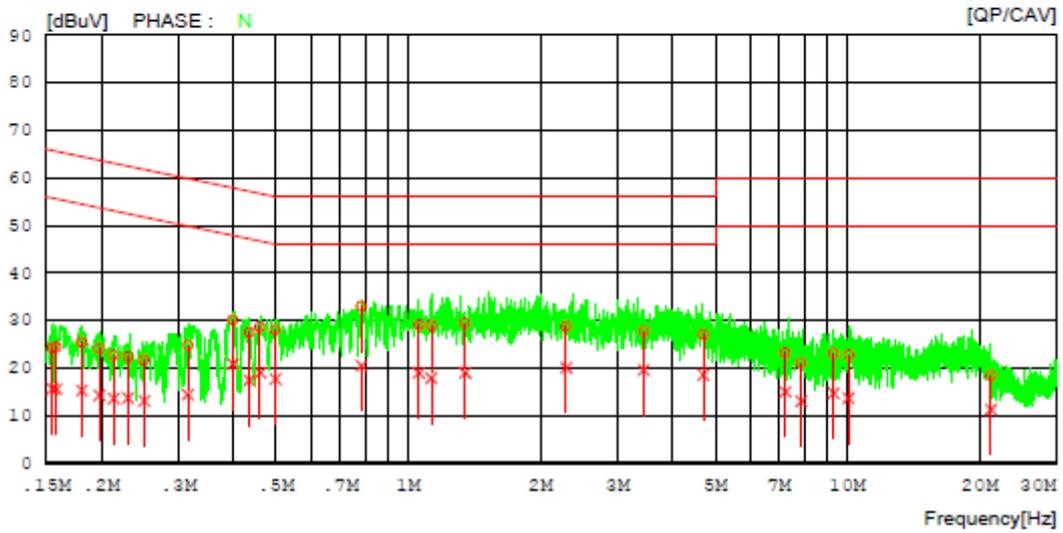
Date 2020-05-08

Order No. DTNC2004-03119  
 Model No. LM-G910HMW  
 Serial No.  
 Test Condition 5.3GHz

Reference No.  
 Power Supply 120 V, 60 Hz  
 Temp/Humi. 23 'C / 42 %  
 Operator InHee Bae

Memo

LIMIT : FCC P15.207 QP  
 FCC P15.207 AV



### AC Line Conducted Emissions (Data List)

Test Mode: U-NII 2A & TM 1 & MIMO(CDD) & 5 320 MHz

## Results of Conducted Emission

DTNC

Date 2020-05-08

Order No.	DTNC2004-03119	Reference No.	
Model No.	LM-G910HMW	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 °C / 42 %
Test Condition	5.3GHz	Operator	InHee Bae

Memo

LIMIT : FCC P15.207 QP  
FCC P15.207 AV

NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.15458	14.21	5.61	10.00	24.21	15.61	65.75	55.75	41.54	40.14	N
2	0.15787	14.48	5.56	10.00	24.48	15.56	65.58	55.58	41.10	40.02	N
3	0.18058	15.42	5.30	10.02	25.44	15.32	64.46	54.46	39.02	39.14	N
4	0.19798	14.02	4.22	10.02	24.04	14.24	63.70	53.70	39.66	39.46	N
5	0.21334	12.67	3.56	10.02	22.69	13.58	63.07	53.07	40.38	39.49	N
6	0.23012	12.34	3.65	10.02	22.36	13.67	62.45	52.45	40.09	38.78	N
7	0.25033	11.70	3.11	10.03	21.73	13.14	61.75	51.75	40.02	38.61	N
8	0.31496	14.71	4.38	10.04	24.75	14.42	59.84	49.84	35.09	35.42	N
9	0.39850	20.08	10.82	10.06	30.14	20.88	57.88	47.88	27.74	27.00	N
10	0.43460	17.44	7.43	10.06	27.50	17.49	57.16	47.16	29.66	29.67	N
11	0.45967	18.57	9.01	10.05	28.62	19.06	56.70	46.70	28.08	27.64	N
12	0.49845	17.96	7.63	10.06	28.02	17.69	56.03	46.03	28.01	28.34	N
13	0.78189	22.93	10.46	10.06	32.99	20.52	56.00	46.00	23.01	25.48	N
14	1.05689	19.04	8.91	10.06	29.10	18.97	56.00	46.00	26.90	27.03	N
15	1.12932	18.76	7.81	10.06	28.82	17.87	56.00	46.00	27.18	28.13	N
16	1.34669	19.34	8.96	10.07	29.41	19.03	56.00	46.00	26.59	26.97	N
17	2.29122	18.67	9.91	10.13	28.80	20.04	56.00	46.00	27.20	25.96	N
18	3.44215	17.61	9.44	10.17	27.78	19.61	56.00	46.00	28.22	26.39	N
19	4.70031	16.89	8.33	10.21	27.10	18.54	56.00	46.00	28.90	27.46	N
20	7.21928	12.94	4.73	10.27	23.21	15.00	60.00	50.00	36.79	35.00	N
21	7.84733	10.74	2.74	10.29	21.03	13.03	60.00	50.00	38.97	36.97	N
22	9.30246	12.78	4.38	10.33	23.11	14.71	60.00	50.00	36.89	35.29	N
23	10.06299	12.35	3.37	10.35	22.70	13.72	60.00	50.00	37.30	36.28	N
24	21.22709	7.84	0.70	10.55	18.39	11.25	60.00	50.00	41.61	38.75	N
25	0.15777	14.43	6.90	10.01	24.44	16.91	65.58	55.58	41.14	38.67	L
26	0.16565	16.36	6.04	10.01	26.37	16.05	65.18	55.18	38.81	39.13	L
27	0.17893	16.22	6.09	10.01	26.23	16.10	64.54	54.54	38.31	38.44	L
28	0.19974	13.50	4.24	10.02	23.52	14.26	63.62	53.62	40.10	39.36	L
29	0.21689	13.71	4.16	10.02	23.73	14.18	62.94	52.94	39.21	38.76	L
30	0.25427	12.16	3.50	10.02	22.18	13.52	61.62	51.62	39.44	38.10	L
31	0.39900	22.44	12.23	10.04	32.48	22.27	57.87	47.87	25.39	25.60	L
32	0.45628	22.68	11.90	10.05	32.73	21.95	56.76	46.76	24.03	24.81	L
33	0.47012	20.67	9.93	10.06	30.73	19.99	56.51	46.51	25.78	26.52	L
34	0.56177	18.76	7.99	10.07	28.83	18.06	56.00	46.00	27.17	27.94	L
35	0.59550	19.17	9.03	10.07	29.24	19.10	56.00	46.00	26.76	26.90	L
36	0.98073	24.04	14.14	10.06	34.10	24.20	56.00	46.00	21.90	21.80	L
37	1.01797	22.61	12.99	10.06	32.67	23.05	56.00	46.00	23.33	22.95	L
38	1.34522	20.07	10.93	10.07	30.14	21.00	56.00	46.00	25.86	25.00	L
39	1.65135	25.14	12.59	10.10	35.24	22.69	56.00	46.00	20.76	23.31	L
40	1.64591	23.68	11.23	10.10	33.78	21.33	56.00	46.00	22.22	24.67	L
41	2.11932	24.99	12.46	10.12	35.11	22.58	56.00	46.00	20.89	23.42	L
42	2.20924	25.07	14.02	10.12	35.19	24.14	56.00	46.00	20.81	21.86	L
43	3.33481	22.32	11.22	10.16	32.48	21.38	56.00	46.00	23.52	24.62	L
44	4.08267	20.83	10.32	10.18	31.01	20.50	56.00	46.00	24.99	25.50	L
45	4.60676	21.69	10.59	10.20	31.89	20.79	56.00	46.00	24.11	25.21	L
46	4.84247	21.99	10.78	10.22	32.21	21.00	56.00	46.00	23.79	25.00	L
47	5.32896	21.01	9.72	10.22	31.23	19.94	60.00	50.00	28.77	30.06	L
48	12.02147	14.76	4.52	10.38	25.14	14.90	60.00	50.00	34.86	35.10	L

AC Line Conducted Emissions (Graph)

Test Mode: U-NII 2C & TM 1 & MIMO(CDD) & 5 500 MHz

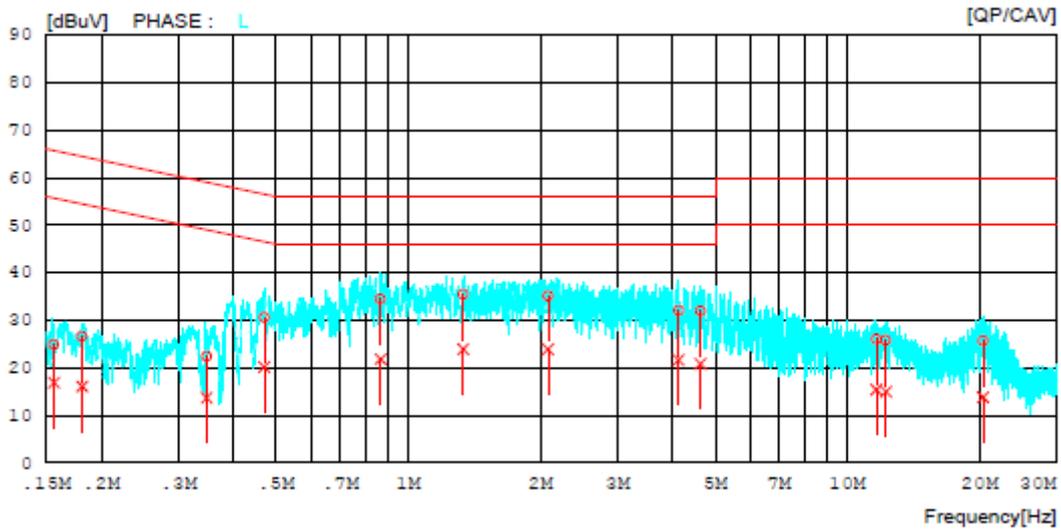
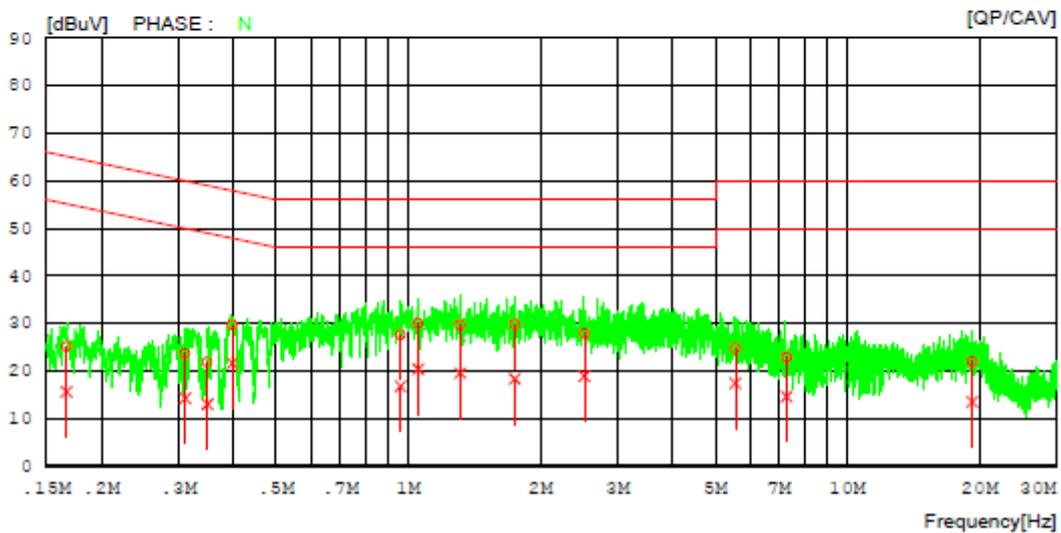
Results of Conducted Emission

DTNC Date 2020-05-08

Order No.	DTNC2004-03119	Reference No.	
Model No.	LM-G910HMW	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 °C / 42 %
Test Condition	5.5GHz	Operator	InHee Bae

Memo

LIMIT : FCC P15.207 QP  
FCC P15.207 AV



**AC Line Conducted Emissions (Data List)**

Test Mode: U-NII 2C & TM 1 & MIMO(CDD) & 5 500 MHz

**Results of Conducted Emission**

DTNC

Date 2020-05-08

Order No.	DTNC2004-03119	Reference No.	
Model No.	LM-G910HMW	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 °C / 42 %
Test Condition	5.5GHz	Operator	InHee Bae

Memo

LIMIT : FCC P15.207 QP  
FCC P15.207 AV

NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]			
1	0.16658	15.14	5.60	10.02	25.16	15.62	65.13	55.13	39.97	39.51	N
2	0.31021	13.58	4.28	10.03	23.61	14.31	59.96	49.96	36.35	35.65	N
3	0.34856	11.74	2.99	10.04	21.78	13.03	59.00	49.00	37.22	35.97	N
4	0.39721	19.63	11.61	10.06	29.69	21.67	57.91	47.91	28.22	26.24	N
5	0.96029	17.61	6.74	10.06	27.67	16.80	56.00	46.00	28.33	29.20	N
6	1.05276	19.97	10.33	10.06	30.03	20.39	56.00	46.00	25.97	25.61	N
7	1.31128	19.62	9.46	10.07	29.69	19.53	56.00	46.00	26.31	26.47	N
8	1.74792	19.72	8.25	10.09	29.81	18.34	56.00	46.00	26.19	27.66	N
9	2.51732	17.77	8.74	10.14	27.91	18.88	56.00	46.00	28.09	27.12	N
10	5.55564	14.48	7.22	10.24	24.72	17.46	60.00	50.00	35.28	32.54	N
11	7.26521	12.62	4.36	10.27	22.89	14.63	60.00	50.00	37.11	35.37	N
12	19.24699	11.45	2.99	10.52	21.97	13.51	60.00	50.00	38.03	36.49	N
13	0.15582	14.88	6.81	10.01	24.89	16.82	65.68	55.68	40.79	38.86	L
14	0.18085	16.54	5.97	10.01	26.55	15.98	64.45	54.45	37.90	38.47	L
15	0.34733	12.30	3.59	10.04	22.34	13.63	59.03	49.03	36.69	35.40	L
16	0.46952	20.46	10.04	10.06	30.52	20.10	56.52	46.52	26.00	26.42	L
17	0.86478	24.37	11.71	10.05	34.42	21.76	56.00	46.00	21.58	24.24	L
18	1.33323	25.29	13.62	10.07	35.36	23.89	56.00	46.00	20.64	22.11	L
19	2.08097	24.98	13.74	10.12	35.10	23.86	56.00	46.00	20.90	22.14	L
20	4.13203	21.77	11.47	10.18	31.95	21.65	56.00	46.00	24.05	24.35	L
21	4.62953	21.71	10.65	10.20	31.91	20.85	56.00	46.00	24.09	25.15	L
22	11.63774	15.60	4.97	10.37	25.97	15.34	60.00	50.00	34.03	34.66	L
23	12.25263	15.32	4.48	10.38	25.70	14.86	60.00	50.00	34.30	35.14	L
24	20.38872	15.10	3.22	10.50	25.60	13.72	60.00	50.00	34.40	36.28	L

**AC Line Conducted Emissions (Graph)**

Test Mode: U-NII 2C & TM 1 & MIMO(CDD) & 5 785 MHz

**Results of Conducted Emission**

DTNC

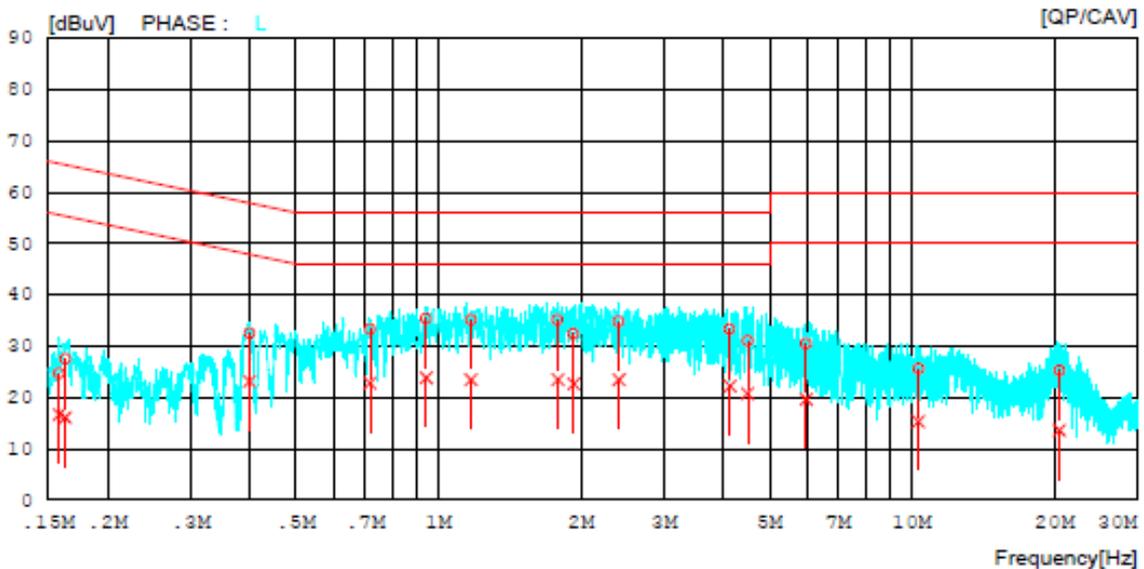
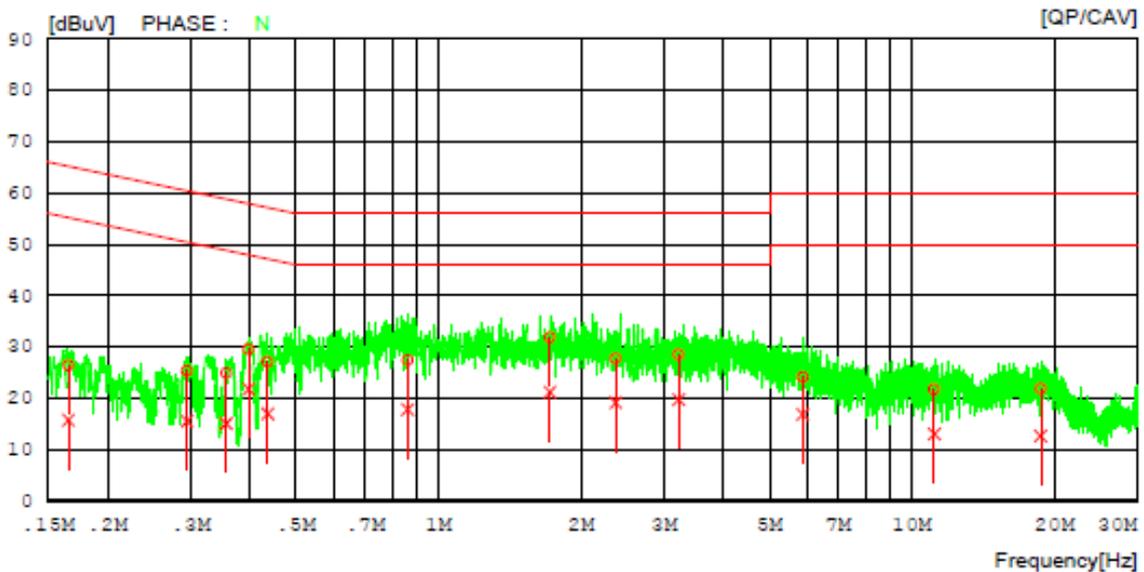
Date 2020-05-08

Order No. DTNC2004-03119  
 Model No. LM-G910HMW  
 Serial No.  
 Test Condition 5.7GHz

Reference No.  
 Power Supply 120 V, 60 Hz  
 Temp/Humi. 23 °C / 42 %  
 Operator InHee Bae

Memo

LIMIT : FCC P15.207 QP  
 FCC P15.207 AV



**AC Line Conducted Emissions (Data List)**

Test Mode: U-NII 2C & TM 1 & MIMO(CDD) & 5 785 MHz

**Results of Conducted Emission**

DTNC

Date 2020-05-08

Order No.	DTNC2004-03119	Reference No.	
Model No.	LM-G910HMW	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 'C / 42 %
Test Condition	5.7GHz	Operator	InHee Bae

Memo

LIMIT : FCC P15.207 QP  
FCC P15.207 AV

NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.16531	16.38	5.73	10.02	26.40	15.75	65.19	55.19	38.79	39.44	N
2	0.29442	15.29	5.49	10.03	25.32	15.52	60.40	50.40	35.08	34.88	N
3	0.35600	14.86	5.06	10.04	24.90	15.10	58.82	48.82	33.92	33.72	N
4	0.39737	19.47	11.66	10.06	29.53	21.72	57.91	47.91	28.38	26.19	N
5	0.43538	17.04	6.89	10.06	27.10	16.95	57.15	47.15	30.05	30.20	N
6	0.86046	17.36	7.74	10.05	27.41	17.79	56.00	46.00	28.59	28.21	N
7	1.71947	21.74	11.13	10.09	31.83	21.22	56.00	46.00	24.17	24.78	N
8	2.36774	17.57	9.00	10.13	27.70	19.13	56.00	46.00	28.30	26.87	N
9	3.21782	18.40	9.60	10.15	28.55	19.75	56.00	46.00	27.45	26.25	N
10	5.88067	13.89	6.64	10.24	24.13	16.88	60.00	50.00	35.87	33.12	N
11	11.14633	11.34	2.65	10.37	21.71	13.02	60.00	50.00	38.29	36.98	N
12	18.70833	11.30	2.20	10.50	21.80	12.70	60.00	50.00	38.20	37.30	N
13	0.15786	14.64	6.58	10.01	24.65	16.59	65.58	55.58	40.93	38.99	L
14	0.16278	17.42	5.99	10.01	27.43	16.00	65.32	55.32	37.89	39.32	L
15	0.39901	22.44	13.03	10.04	32.48	23.07	57.87	47.87	25.39	24.80	L
16	0.71644	23.26	12.67	10.04	33.30	22.71	56.00	46.00	22.70	23.29	L
17	0.94229	25.28	13.68	10.05	35.33	23.73	56.00	46.00	20.67	22.27	L
18	1.17128	25.05	13.30	10.07	35.12	23.37	56.00	46.00	20.88	22.63	L
19	1.78495	24.92	13.35	10.11	35.03	23.46	56.00	46.00	20.97	22.54	L
20	1.92859	22.24	12.49	10.12	32.36	22.61	56.00	46.00	23.64	23.39	L
21	2.40467	24.60	13.27	10.13	34.73	23.40	56.00	46.00	21.27	22.60	L
22	4.12571	23.02	11.99	10.18	33.20	22.17	56.00	46.00	22.80	23.83	L
23	4.49667	20.75	10.48	10.20	30.95	20.68	56.00	46.00	25.05	25.32	L
24	5.97853	20.23	9.36	10.24	30.47	19.60	60.00	50.00	29.53	30.40	L
25	10.33338	15.15	4.94	10.34	25.49	15.28	60.00	50.00	34.51	34.72	L
26	20.49664	14.66	3.00	10.50	25.16	13.50	60.00	50.00	34.84	36.50	L

## 9. LIST OF TEST EQUIPMENT

Date of Test(Original test): 2020.04.16 ~ 2020.05.19

Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal.Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	19/12/16	20/12/16	MY50410357
Spectrum Analyzer	Agilent Technologies	N9020A	19/12/16	20/12/16	MY48011700
Spectrum Analyzer	Agilent Technologies	N9020A	19/12/16	20/12/16	MY48010133
Spectrum Analyzer	Agilent Technologies	N9030A	19/12/16	20/12/16	MY53310140
DC Power Supply	Agilent Technologies	66332A	19/06/25	20/06/25	MY43000211
Multimeter	FLUKE	17B	19/12/16	20/12/16	26030065WS
Signal Generator	Rohde Schwarz	SMBV100A	19/12/16	20/12/16	255571
Signal Generator	ANRITSU	MG3695C	19/12/16	20/12/16	173501
Thermohygrometer	BODYCOM	BJ5478	19/12/18	20/12/18	120612-1
Thermohygrometer	BODYCOM	BJ5478	19/12/18	20/12/18	120612-2
Thermohygrometer	BODYCOM	BJ5478	19/09/18	20/09/18	N/A
HYGROMETER	TESTO	608-H1	20/01/21	21/01/21	34862883
Loop Antenna	Schwarzbeck	FMZB1513	20/02/19	22/02/19	1513-128
BILOG ANTENNA	Schwarzbeck	VULB 9160	19/04/23	21/04/23	9160-3362
Horn Antenna	ETS-Lindgren	3115	20/01/30	22/01/30	6419
Horn Antenna	A.H.Systems Inc.	SAS-574	19/07/03	21/07/03	155
PreAmplifier	tsj	MLA-0118-B01-40	19/12/16	20/12/16	1852267
PreAmplifier	tsj	MLA-1840-J02-45	19/06/27	20/06/27	16966-10728
PreAmplifier	H.P	8447D	19/12/16	20/12/16	2944A07774
High Pass Filter	Wainwright Instruments	WHKX12-935-1000-15000-40SS	19/06/26	20/06/26	8
High Pass Filter	Wainwright Instruments	WHKX10-2838-3300-18000-60SS	19/06/26	20/06/26	1
High Pass Filter	Wainwright Instruments	WHNX8.0/26.5-6SS	19/06/27	20/06/27	3
Attenuator	Hefei Shunze	SS5T2.92-10-40	19/06/27	20/06/27	16012202
Attenuator	SRTechnology	F01-B0606-01	19/06/27	20/06/27	13092403
Attenuator	Aeroflex/Weinschel	20515	19/06/27	20/06/27	Y2370
Attenuator	SMAJK	SMAJK-2-3	19/06/27	20/06/27	2
Attenuator	SMAJK	SMAJK-50-10	19/08/07	20/08/07	15081901
Power Meter & Wide Bandwidth Sensor	Anritsu	ML2488B	20/01/02	21/01/02	0846002
		MA2491A	20/01/02	21/01/02	0845295
EMI Receiver	ROHDE&SCHWARZ	ESW44	19/07/30	20/07/30	101645
HYGROMETER	TESTO	608-H1	20/01/21	21/01/21	34862883
EMI Test Receiver	Rohde Schwarz	ESCI7	20/01/20	21/01/20	100910
PULSE LIMITER	Rohde Schwarz	ESH3-Z2	19/09/17	20/09/17	101333
LISN	SCHWARZBECK	NNLK 8121	19/05/23	20/05/23	6183
Cable	Junkosha	MWX241	20/01/13	21/01/13	G-04
Cable	Junkosha	MWX241	20/01/13	21/01/13	G-07
Cable	DT&C	Cable	20/01/13	21/01/13	G-13
Cable	DT&C	Cable	20/01/13	21/01/13	G-14
Cable	HUBER+SUHNER	SUCOFLEX 104	20/01/13	21/01/13	G-15
Cable	Radiall	TESTPRO3	20/01/16	21/01/16	M-01
Cable	Junkosha	MWX315	20/01/16	21/01/16	M-05
Cable	Junkosha	MWX221	20/01/16	21/01/16	M-06
Cable	DT&C	Cable	20/01/16	21/01/16	RF-82

Note 1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017

Note 2: The cable is not a regular calibration item, so it has been calibrated by DT & C itself

**Date of Test(Spot check verification): 2020.06.11 ~ 2020.07.01**

Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal.Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	19/12/16	20/12/16	MY48011700
DC Power Supply	Agilent Technologies	66332A	19/06/25	20/06/25	MY43000211
			20/06/24	21/06/24	
Multimeter	FLUKE	17B	19/12/16	20/12/16	26030065WS
Signal Generator	Rohde Schwarz	SMBV100A	19/12/16	20/12/16	255571
Signal Generator	ANRITSU	MG3695C	19/12/16	20/12/16	173501
Thermohygrometer	BODYCOM	BJ5478	19/09/18	20/09/18	N/A
Horn Antenna	ETS-Lindgren	3115	20/01/30	22/01/30	6419
Horn Antenna	A.H.Systems Inc.	SAS-574	19/07/03	21/07/03	155
PreAmplifier	tsj	MLA-0118-B01-40	19/12/16	20/12/16	1852267
PreAmplifier	tsj	MLA-1840-J02-45	19/06/27	20/06/27	16966-10728
			20/06/24	21/06/24	
High Pass Filter	Wainwright Instruments	WHKX12-935-1000-15000-40SS	19/06/26	20/06/26	8
			20/06/24	21/06/24	
High Pass Filter	Wainwright Instruments	WHKX10-2838-3300-18000-60SS	19/06/26	20/06/26	1
			20/06/24	21/06/24	
Attenuator	Hefei Shunze	SS5T2.92-10-40	19/06/27	20/06/27	16012202
			20/06/24	21/06/24	
Attenuator	SRTechnology	F01-B0606-01	19/06/27	20/06/27	13092403
			20/06/24	21/06/24	
Attenuator	Aeroflex/Weinschel	20515	19/06/27	20/06/27	Y2370
			20/06/24	21/06/24	
Attenuator	SMAJK	SMAJK-2-3	19/06/27	20/06/27	2
			20/06/24	21/06/24	
Attenuator	SMAJK	SMAJK-50-10	19/08/07	20/08/07	15081901
Power Meter & Wide Bandwidth Sensor	Anritsu	ML2488B MA2491A	20/01/02	21/01/02	0846002 0845295
Cable	Junkosha	MWX241	20/01/13	21/01/13	G-04
Cable	Junkosha	MWX241	20/01/13	21/01/13	G-07
Cable	DT&C	Cable	20/01/13	21/01/13	G-13
Cable	DT&C	Cable	20/01/13	21/01/13	G-14
Cable	HUBER+SUHNER	SUCOFLEX 104	20/01/13	21/01/13	G-15

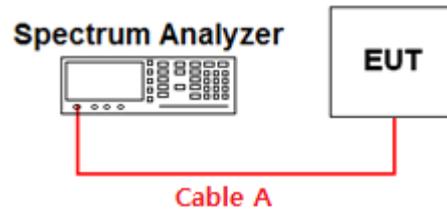
Note1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017

Note2: The cable is not a regular calibration item, so it has been calibrated by DT &amp; C itself.

## APPENDIX I

### Conducted Test set up Diagram

- Conducted Measurement



## APPENDIX II

### Duty Cycle Information

#### ■ Test Procedure

**Duty Cycle [X = On Time / ( On + Off time )]** is measured using Measurement Procedure of **KDB789033 D02v02r01**

1. Set the center frequency of the spectrum analyzer to the center frequency of the transmission.
2. Set RBW  $\geq$  EBW if possible; otherwise, set RBW to the largest available value.
3. Set VBW  $\geq$  RBW. Set detector = peak.
4. Note : The zero-span measurement method shall not be used unless both **RBW and VBW are  $> 50 / T$** , where  $T$  is defined in section II.B.1.a), and **the number of sweep points across duration  $T$  exceeds 100**. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if  $T \leq 16.7$  microseconds.)

$T$ : The minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

( $T$  = On time of the above table since the EUT operates with above fixed Duty Cycle and it is the minimum On time)

#### ■ Test Results:

##### Duty cycle: CDD

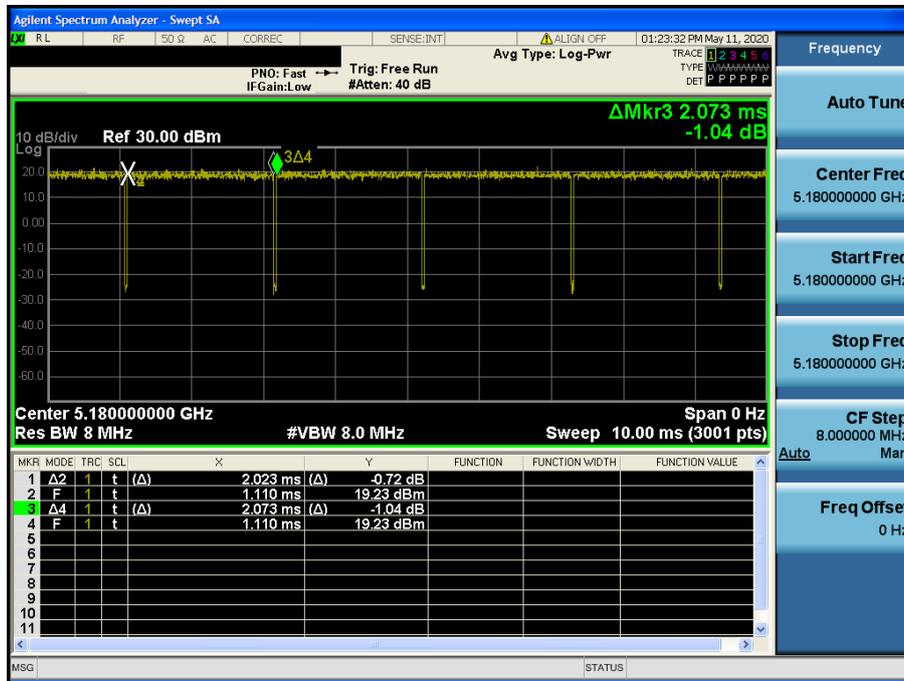
Mode	Data Rate	Tested Frequency [MHz]	Maximum Achievable Duty Cycle (x) = On / (On+Off)			Duty Cycle Correction Factor [dB]	50/T [kHz]
			On Time [ms]	(On+Off) Time [ms]	x		
TM 1	6 Mbps	5 180	2.023	2.073	0.975 9	0.11	24.72
TM 2	MCS 0	5 180	0.973	1.017	0.957 0	0.19	51.37
TM 3	MCS 0	5 190	0.661	0.703	0.941 1	0.26	75.61
TM 4	MCS 0	5 210	1.168	1.213	0.962 9	0.16	42.81

Test Plot:

Multiple Transmit

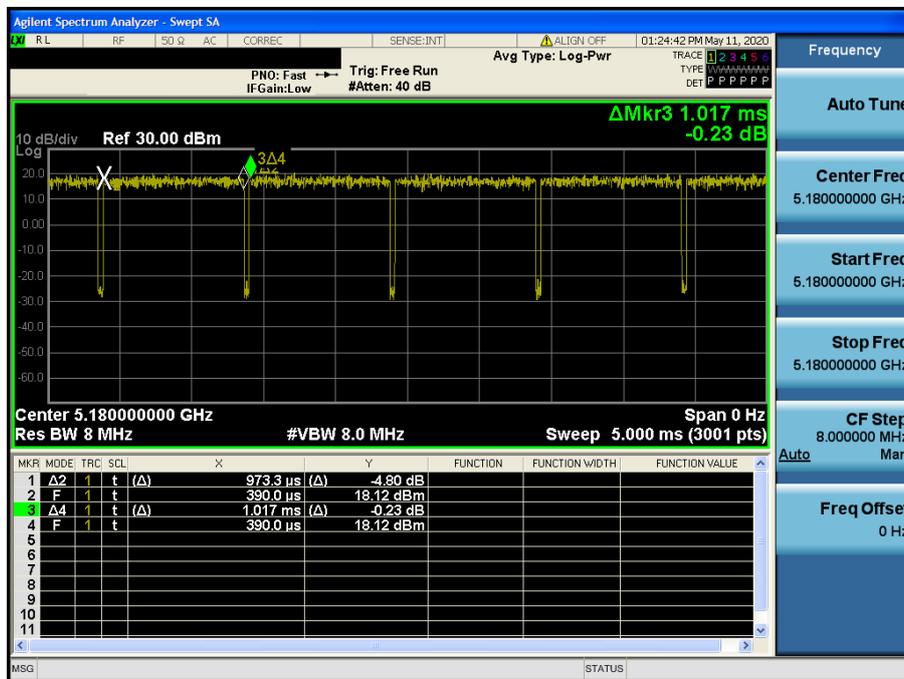
Duty Cycle

Test Mode: TM 1 & Ch.36



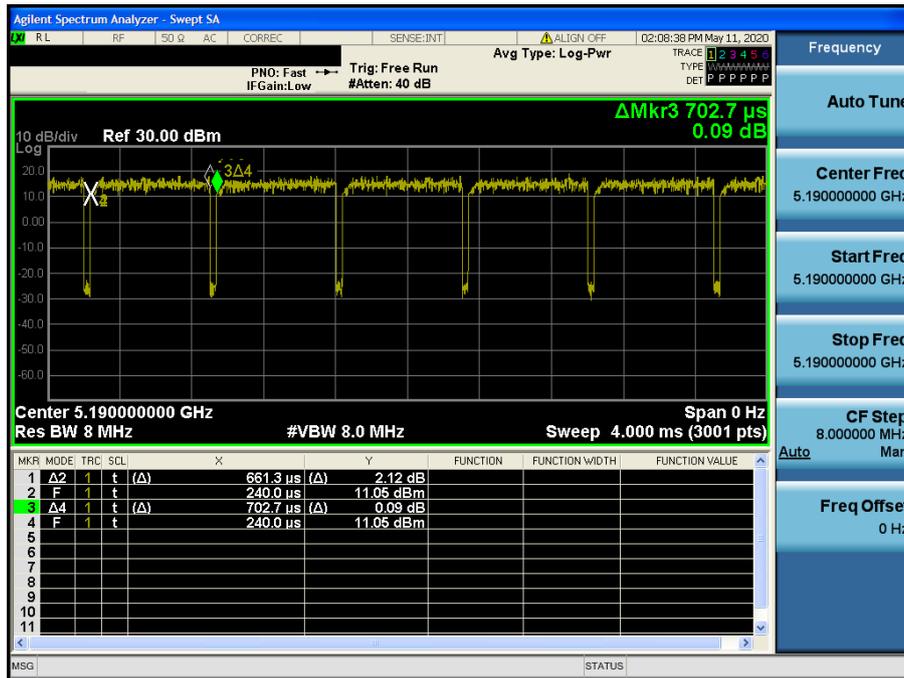
Duty Cycle

Test Mode: TM 2 & Ch.36



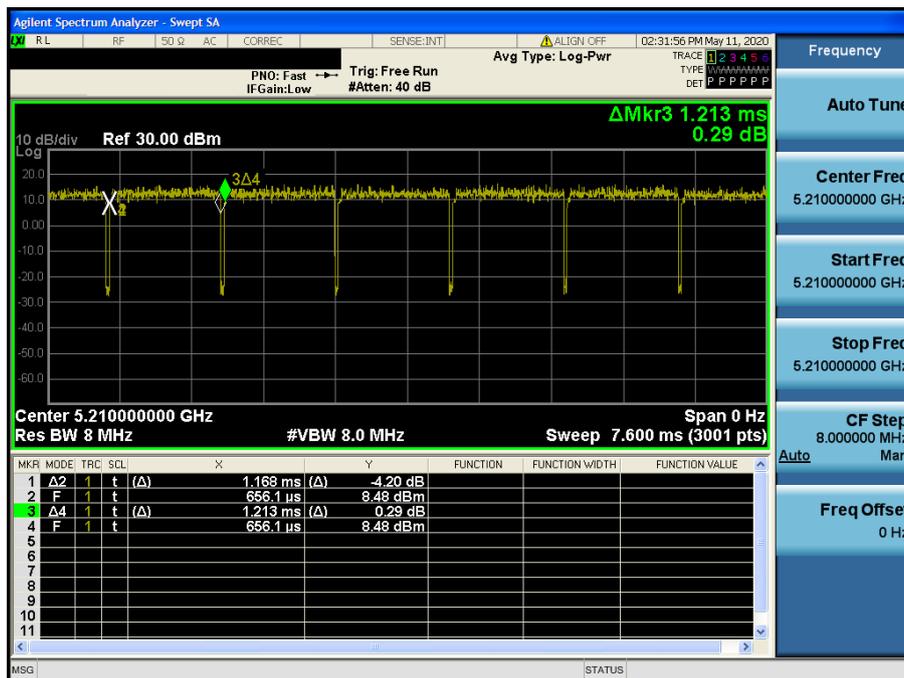
Duty Cycle

Test Mode: TM 3 & Ch.38



Duty Cycle

Test Mode: TM 4 & Ch.42

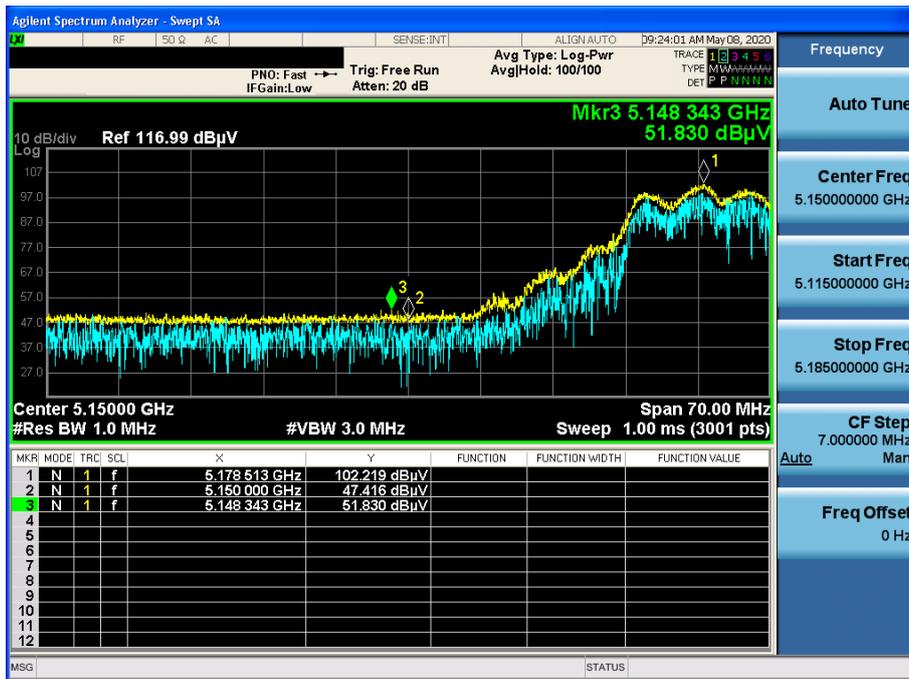


APPENDIX III

Unwanted Emissions (Radiated) Test Plot: MIMO(CDD)

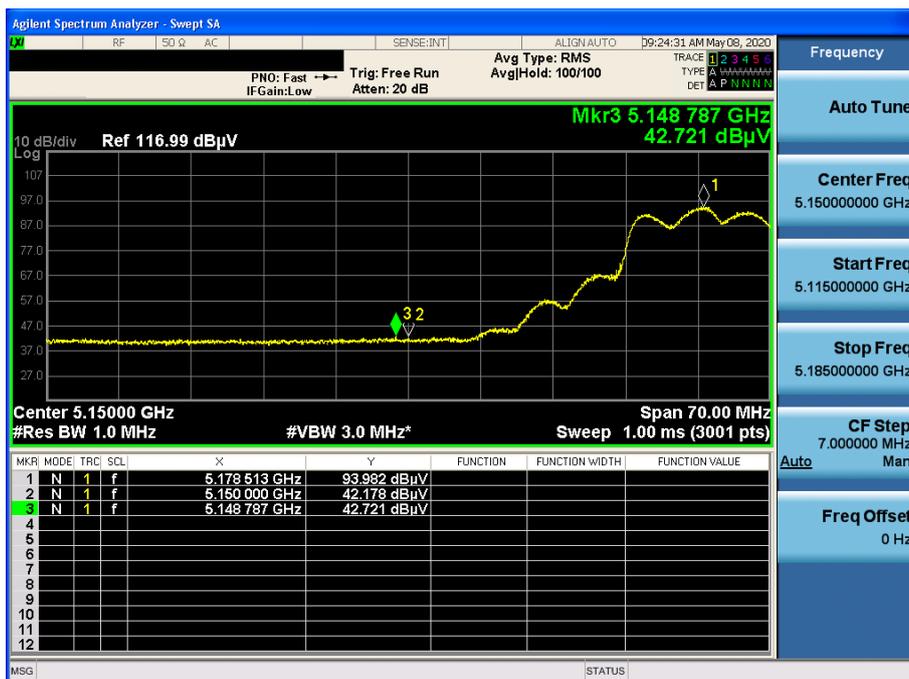
TM 1 & U-NII 1 & Ch.36 & Z axis & Hor

Detector Mode : PK



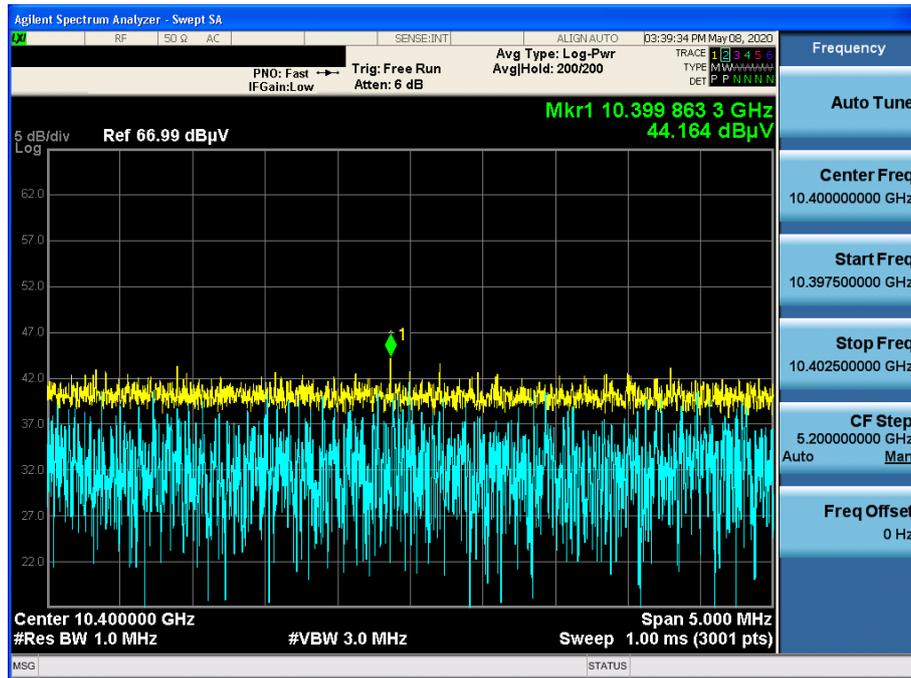
TM 1 & U-NII 1 & Ch.36 & Z axis & Hor

Detector Mode : AV



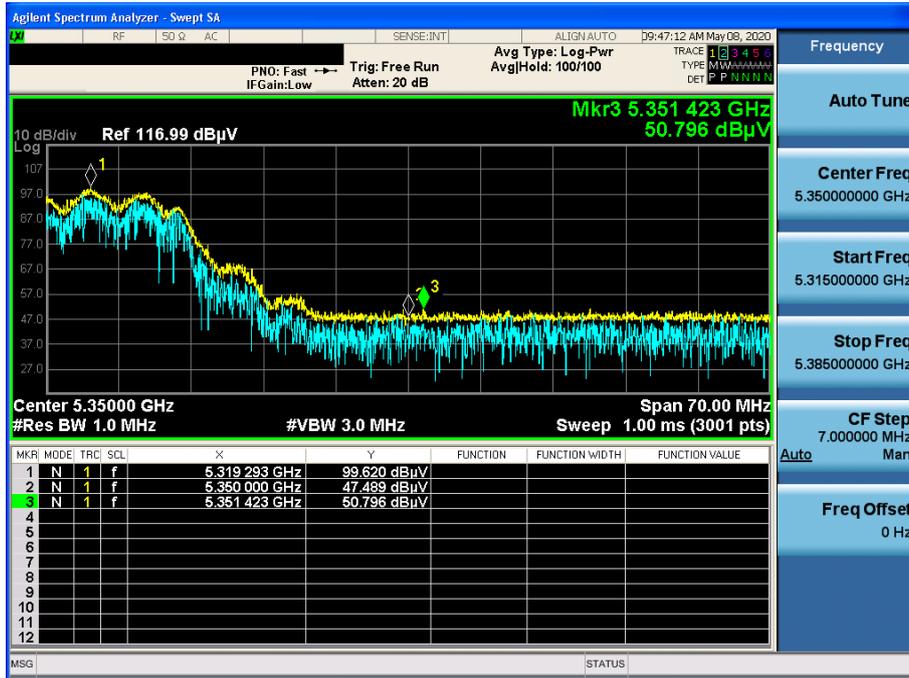
TM 1 & U-NII 1 & Ch.40 & X axis & Ver

Detector Mode : PK



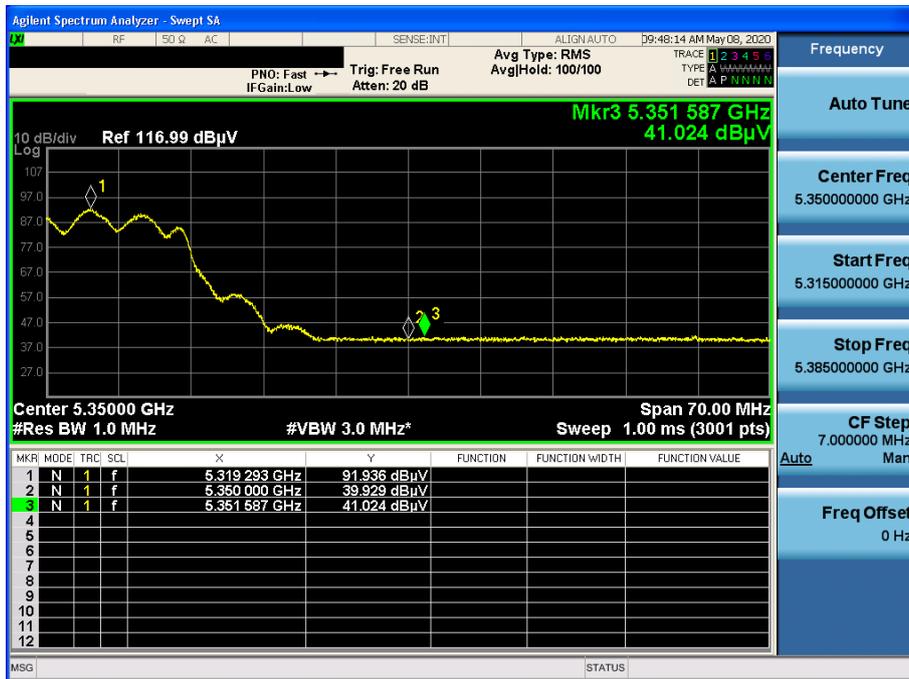
TM 1 & U-NII 2A & Ch.64 & Z axis & Hor

Detector Mode : PK



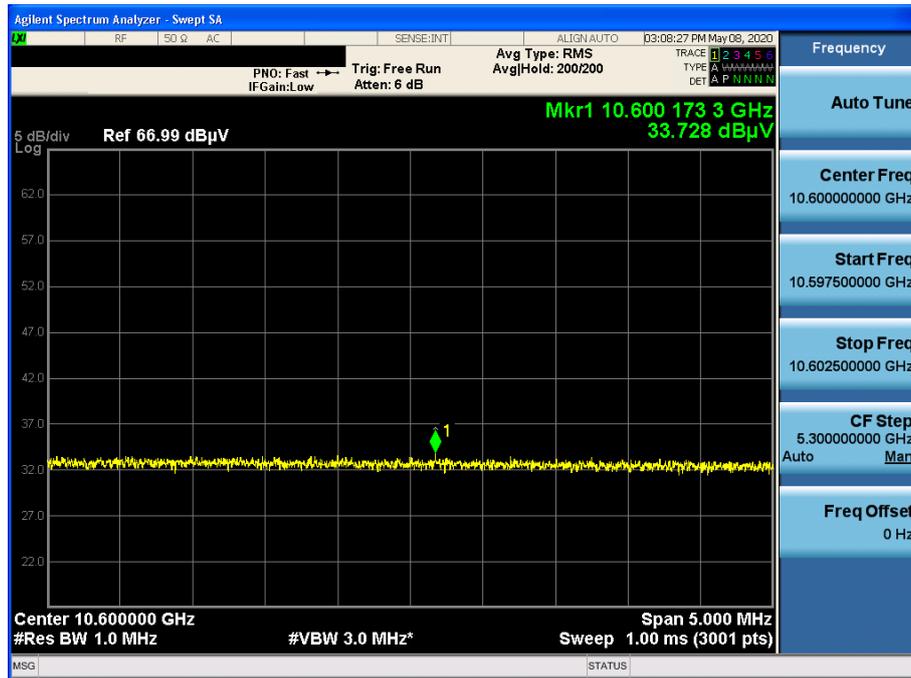
TM 1 & U-NII 2A & Ch.64 & Z axis & Hor

Detector Mode : AV



TM 1 & U-NII 2A & Ch.60 & X axis & Ver

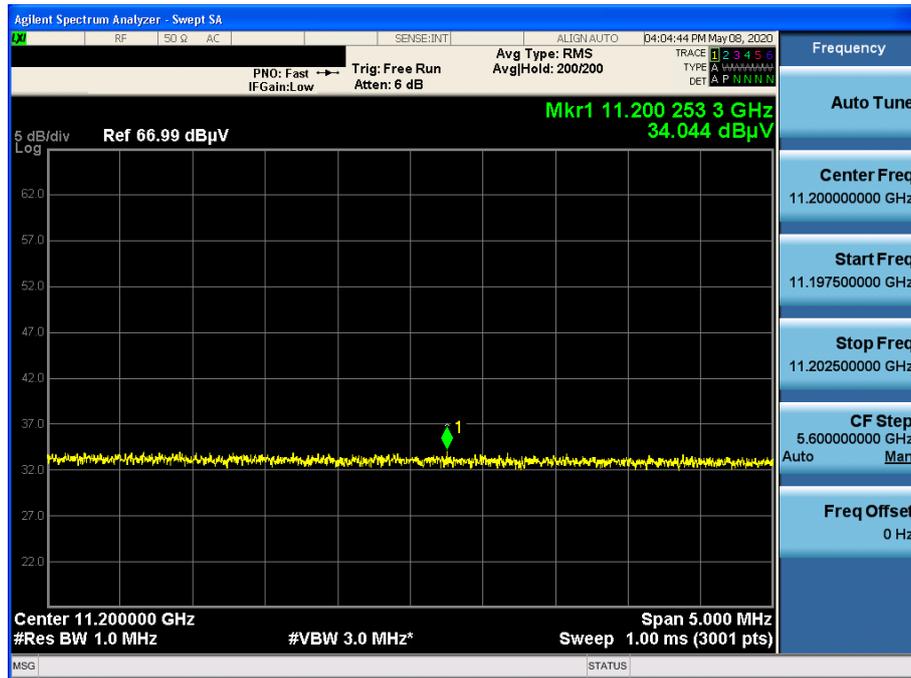
Detector Mode : AV





TM 1 & U-NII 2C & Ch.120 & X axis & Ver

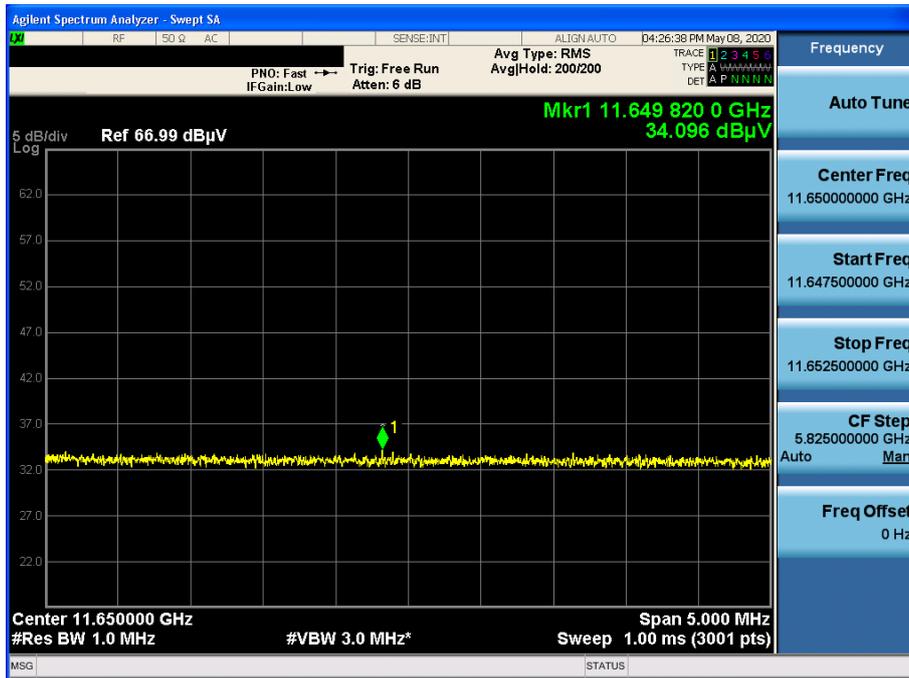
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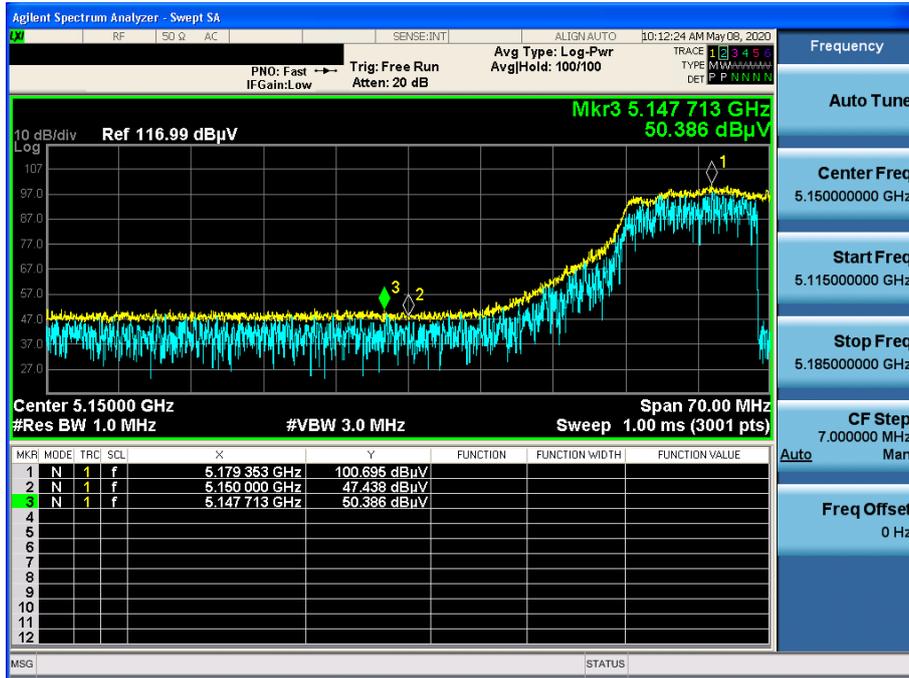
TM 1 & U-NII 3 & Ch.165 & X axis & Ver

Detector Mode : AV



TM 2 & U-NII 1 & Ch.36 & X axis & Ver

Detector Mode : PK



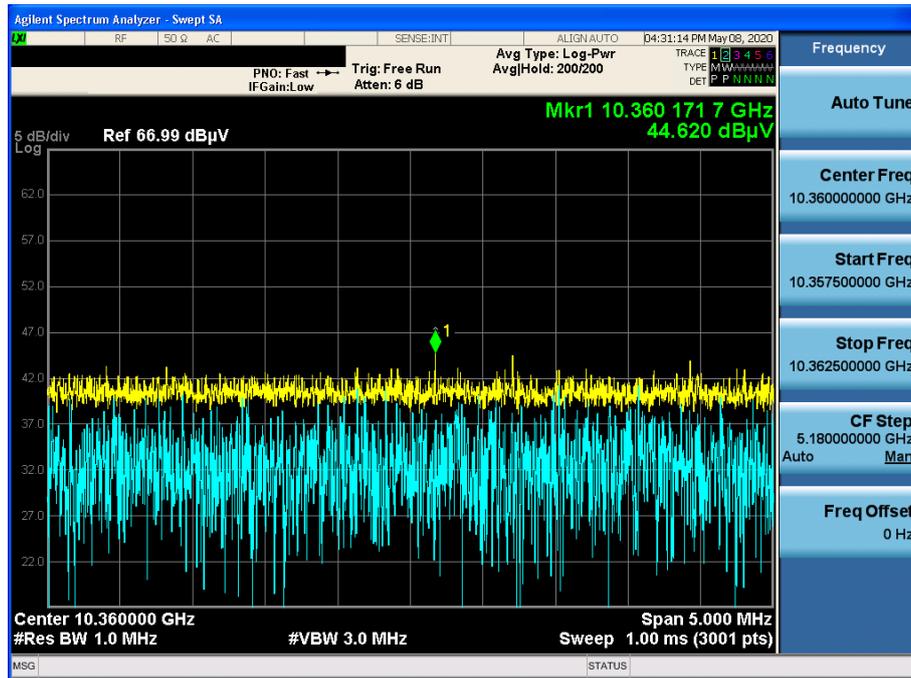
TM 2 & U-NII 1 & Ch.36 & X axis & Ver

Detector Mode : AV



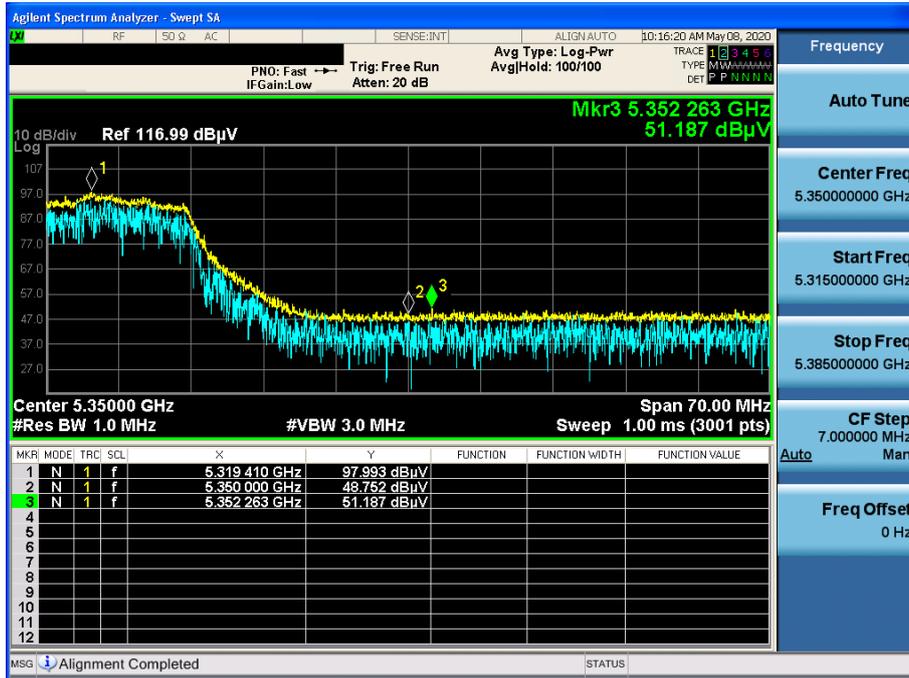
TM 2 & U-NII 1 & Ch.36 & X axis & Ver

Detector Mode : PK



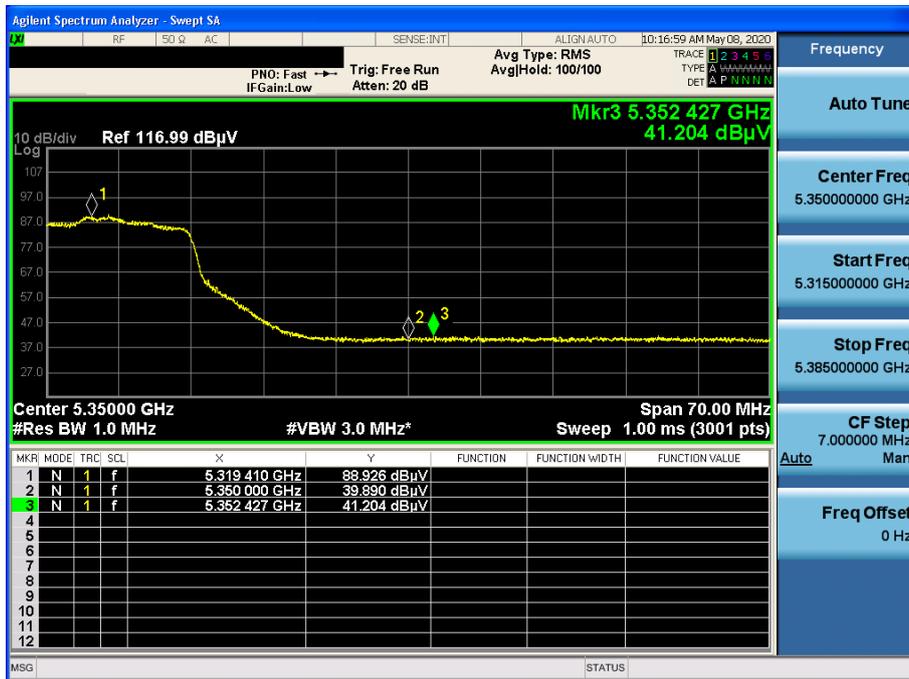
TM 2 & U-NII 2A & Ch.64 & Z axis & Hor

Detector Mode : PK



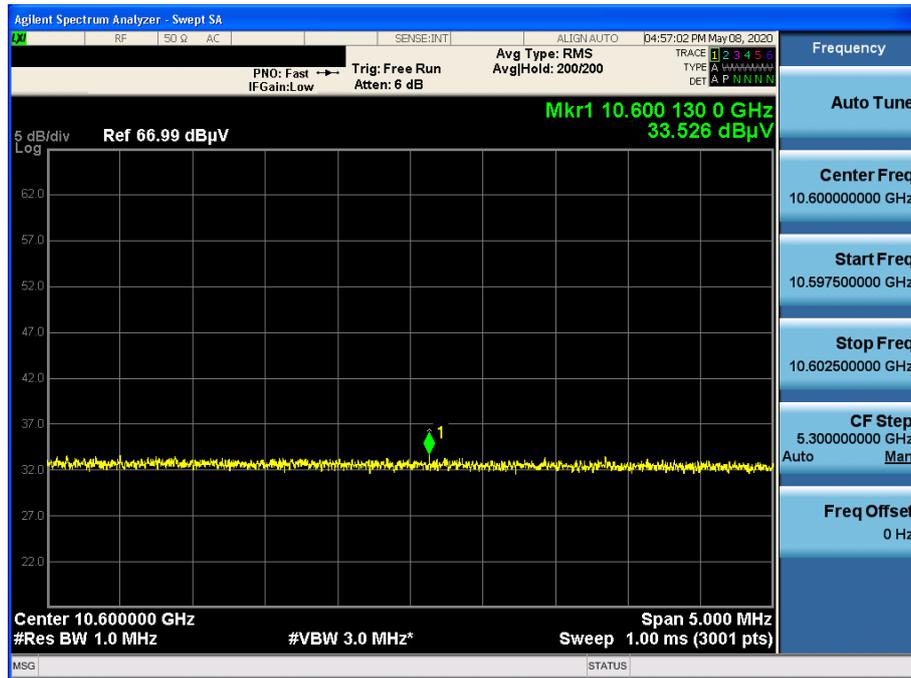
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Detector Mode : AV



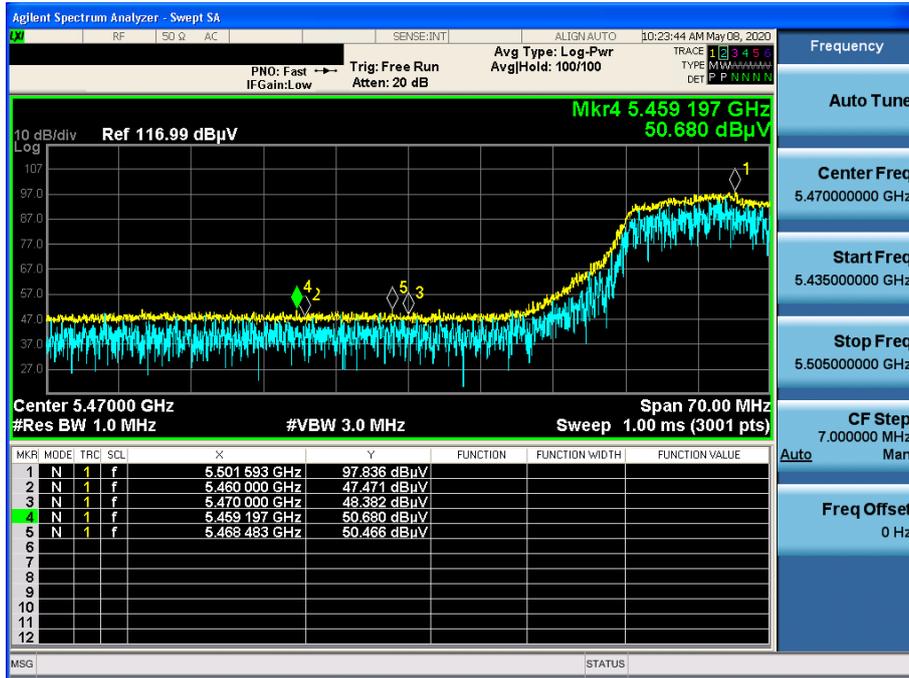
TM 2 & U-NII 2A & Ch.60 & X axis & Ver

Detector Mode : AV



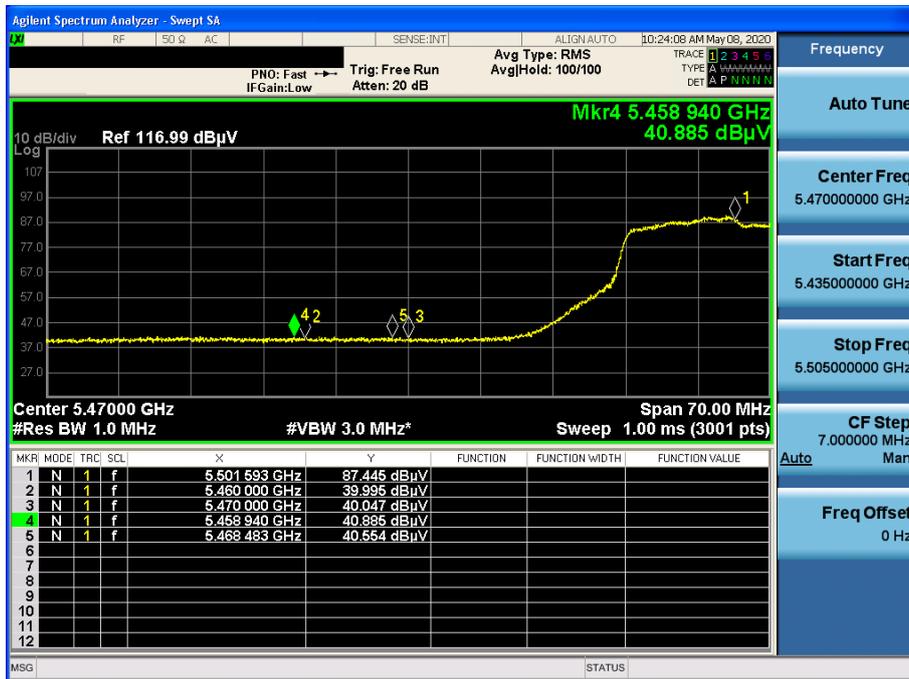
TM 2 & U-NII 2C & Ch.100 & Z axis & Hor

Detector Mode : PK



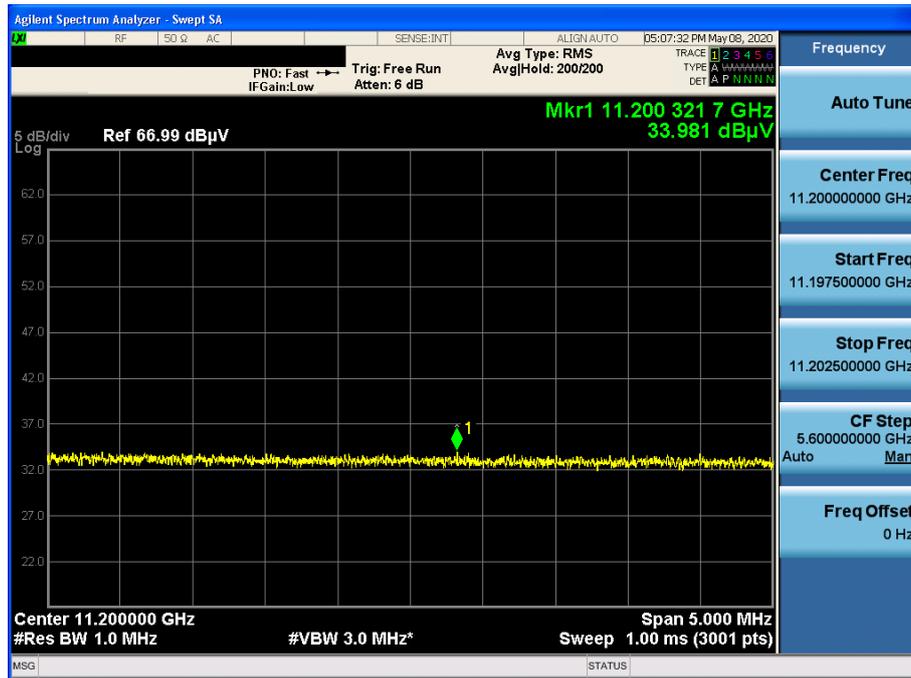
TM 2 & U-NII 2C & Ch.100 & Z axis & Hor

Detector Mode : AV



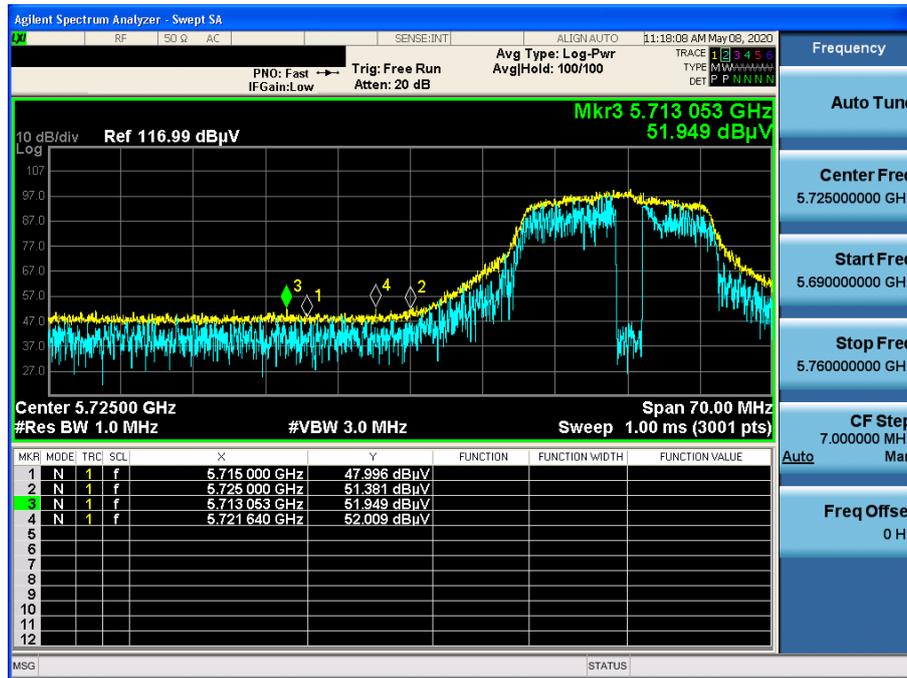
TM 2 & U-NII 2C & Ch.120 & X axis & Ver

Detector Mode : AV



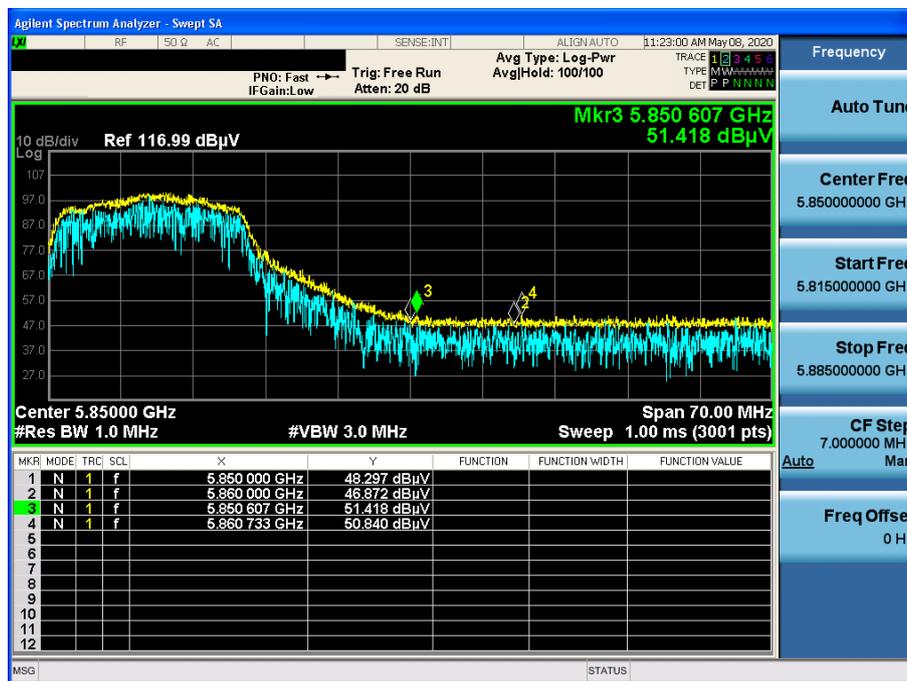
TM 2 & U-NII 3 & Ch.149 & Z axis & Hor

Detector Mode : PK



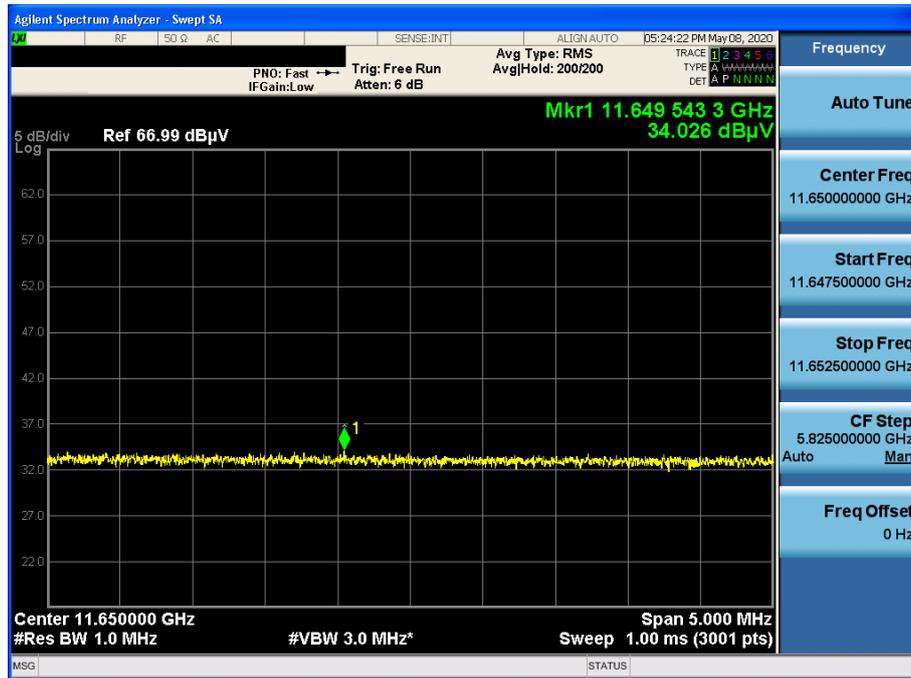
TM 2 & U-NII 3 & Ch.165 & Z axis & Hor

Detector Mode : PK



TM 2 & U-NII 3 & Ch.165 & X axis & Ver

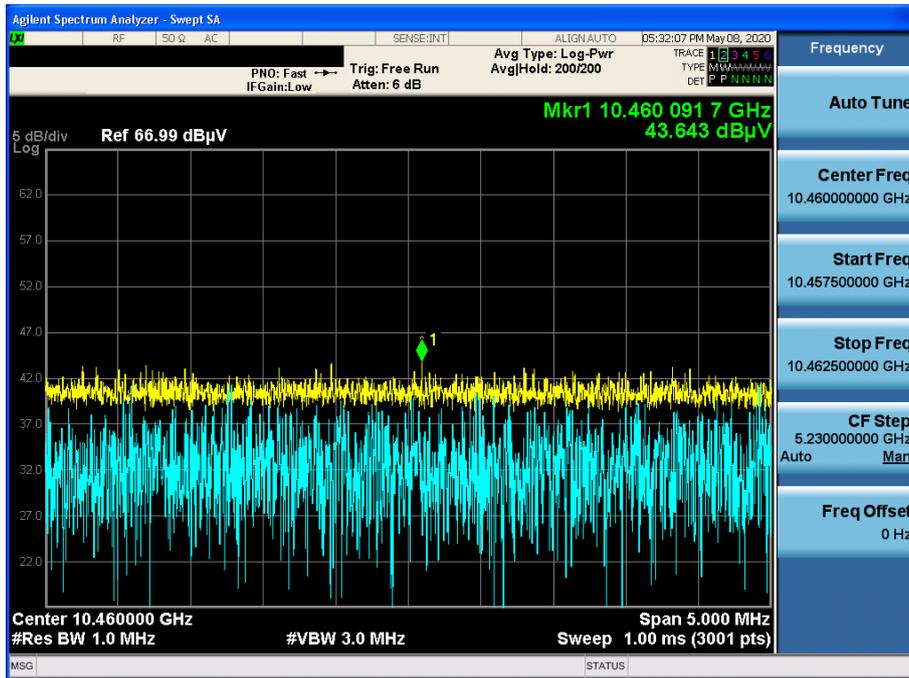
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TM 3 & U-NII 1 & Ch.46 & X axis & Ver

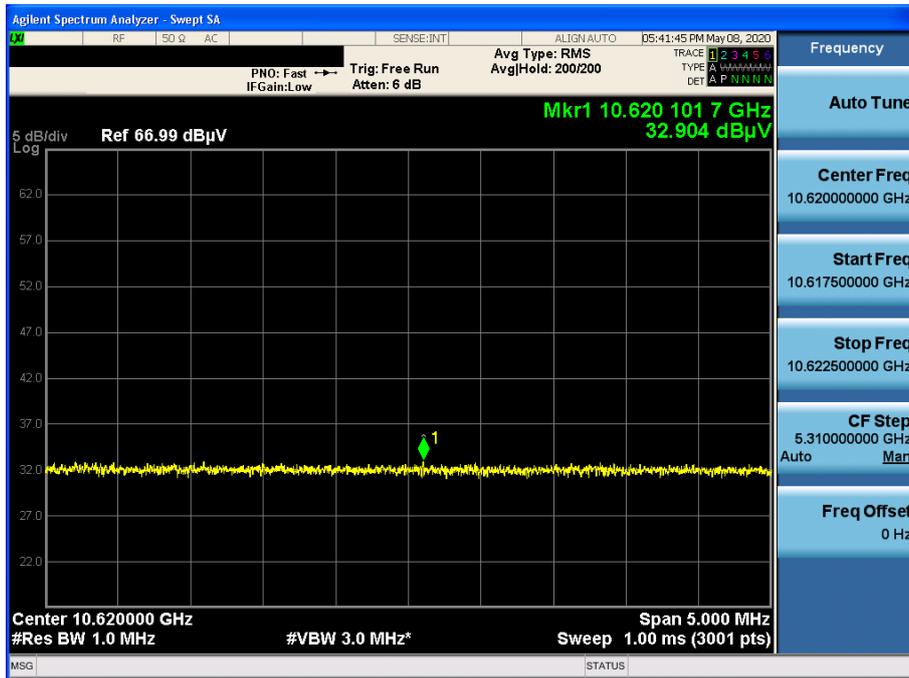
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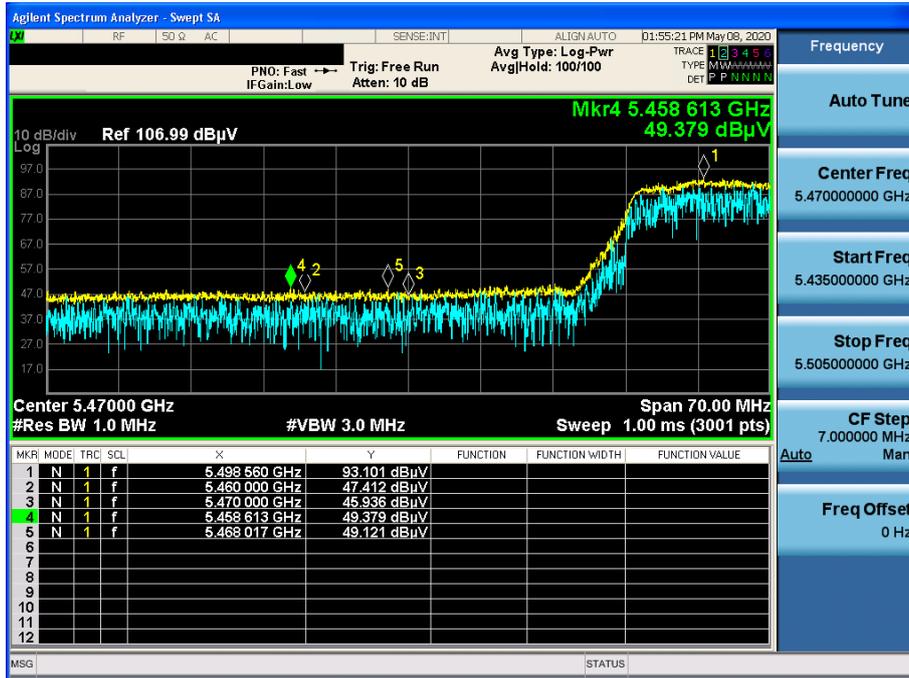
TM 3 & U-NII 2A & Ch.62 & X axis & Ver

Detector Mode : AV



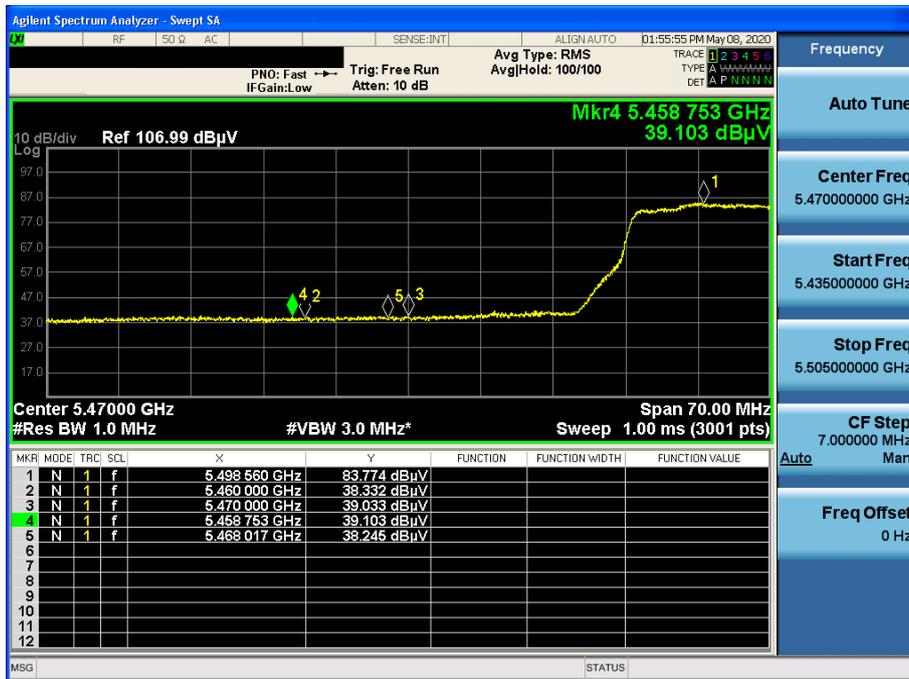
TM 3 & U-NII 2C & Ch.102 & X axis & Ver

Detector Mode : PK



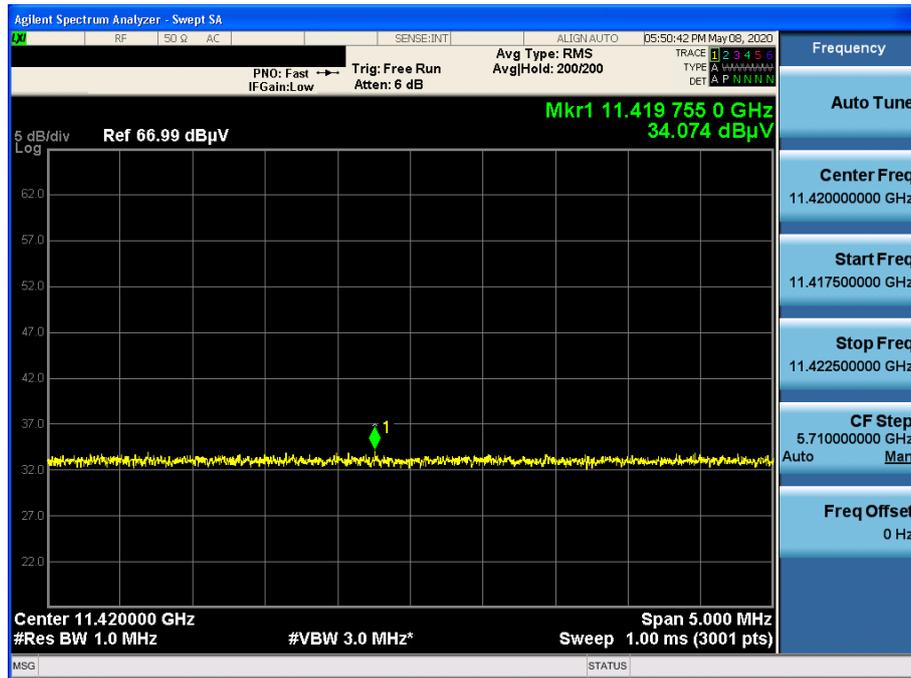
TM 3 & U-NII 2C & Ch.102 & X axis & Ver

Detector Mode : AV



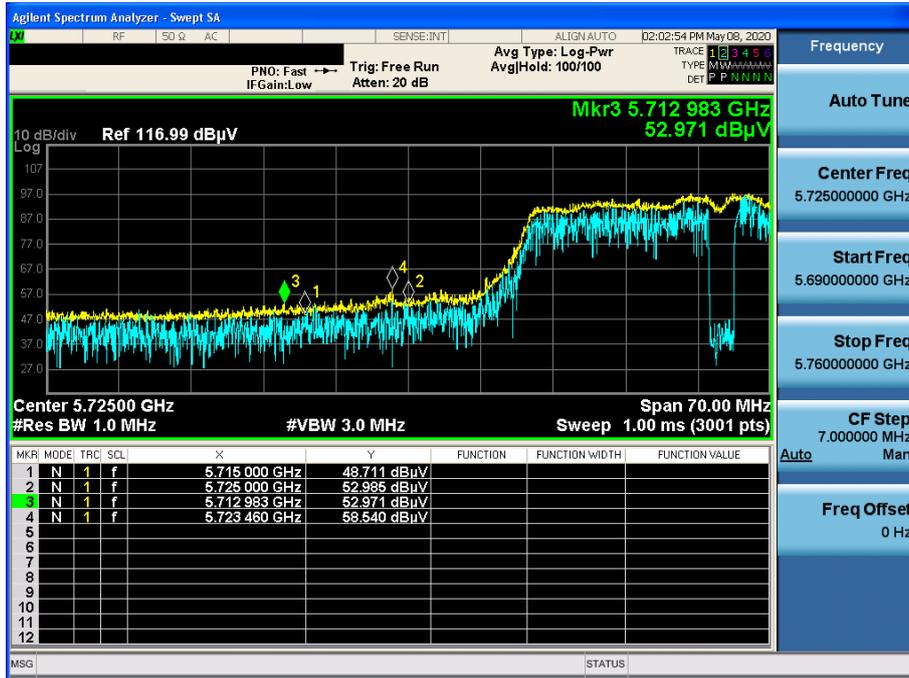
TM 3 & U-NII 2C & Ch.142 & X axis & Ver

Detector Mode : AV



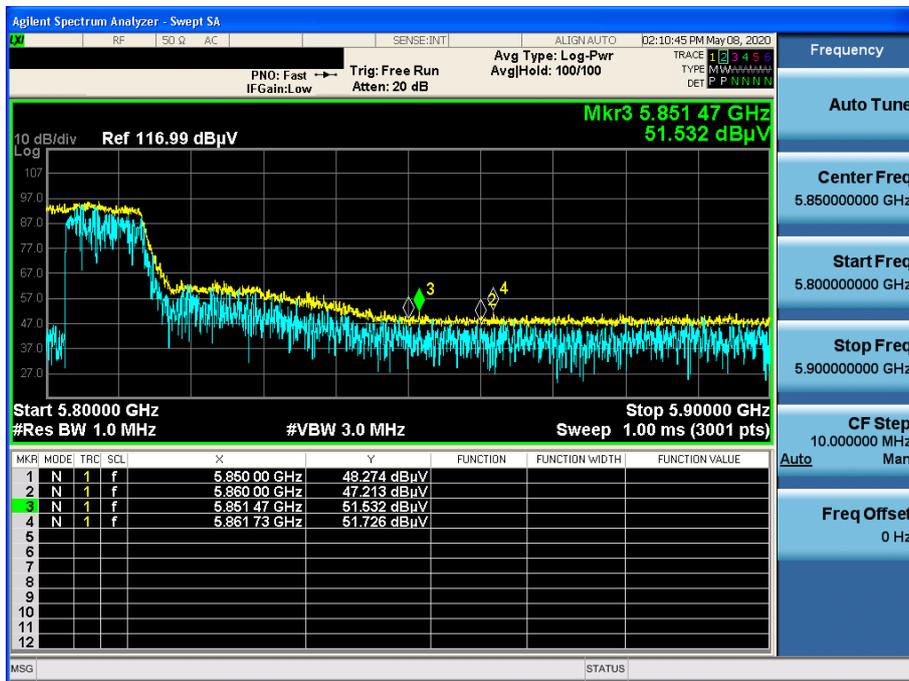
TM 3 & U-NII 3 & Ch.151 & Z axis & Hor

Detector Mode : PK



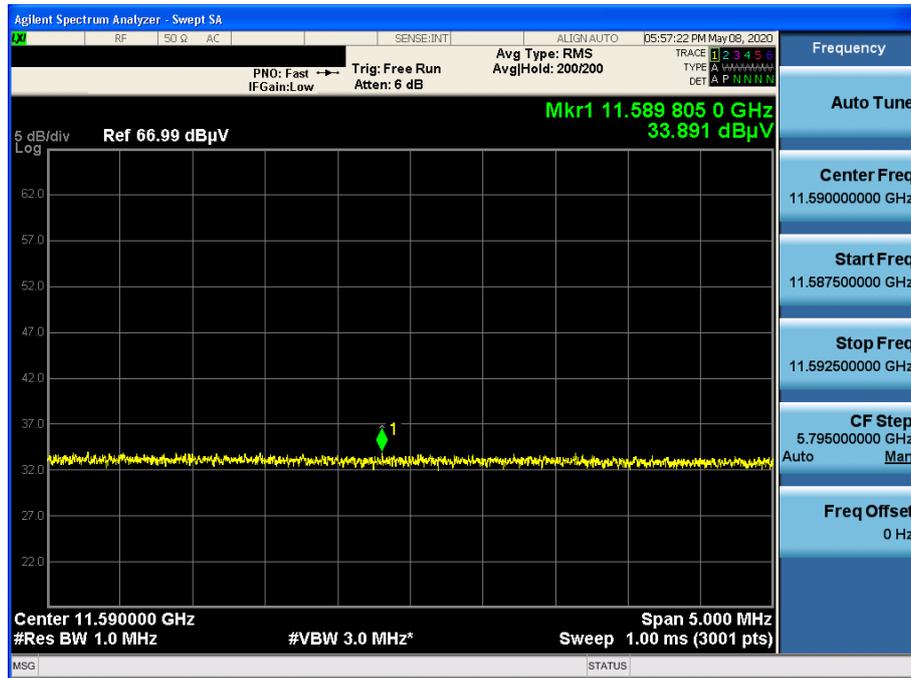
TM 3 & U-NII 3 & Ch.159 & Z axis & Hor

Detector Mode : PK



TM 3 & U-NII 3 & Ch.159 & X axis & Ver

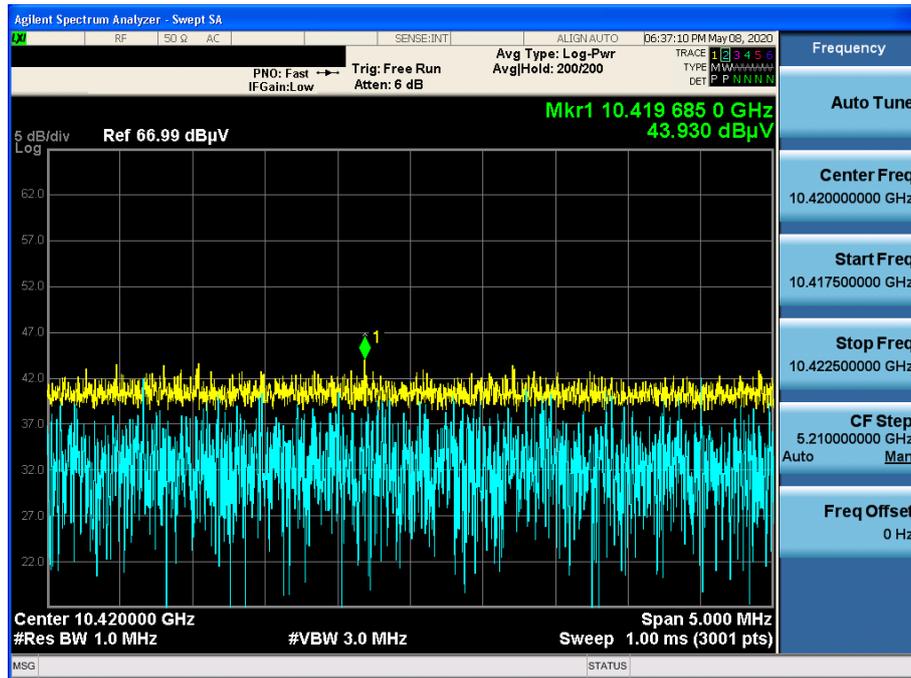
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TM 4 & U-NII 1 & Ch.42 & X axis & Ver

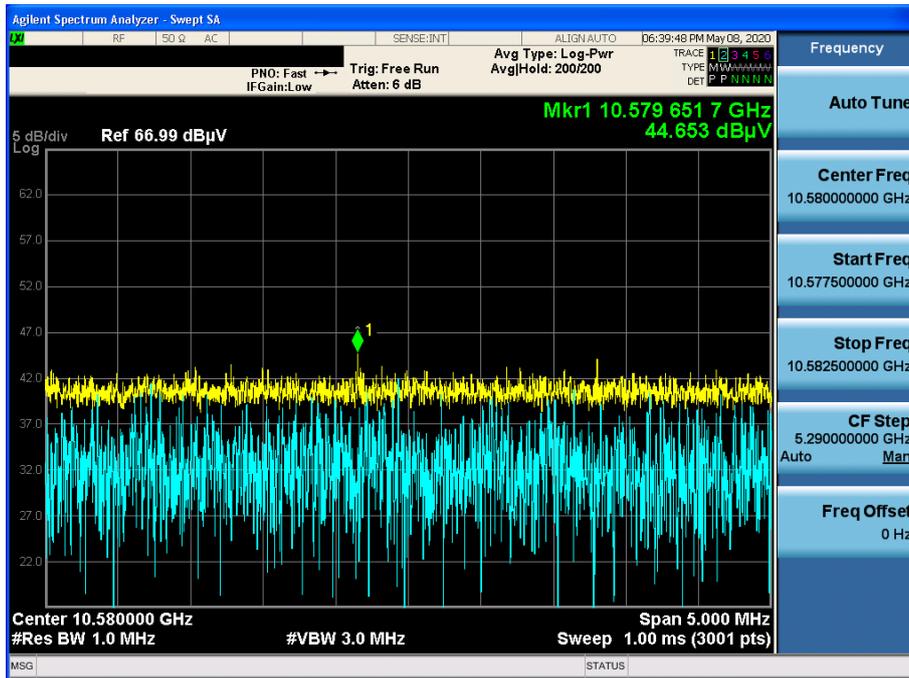
Detector Mode : PK





TM 4 & U-NII 2A & Ch.58 & X axis & Ver

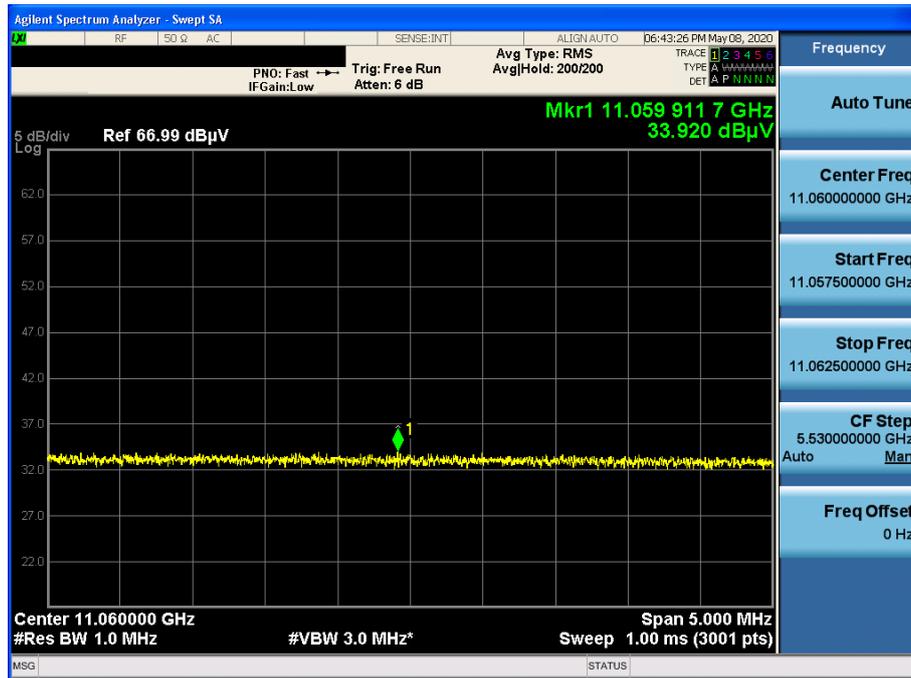
Detector Mode : PK





TM 4 & U-NII 2C & Ch.106 & X axis & Ver

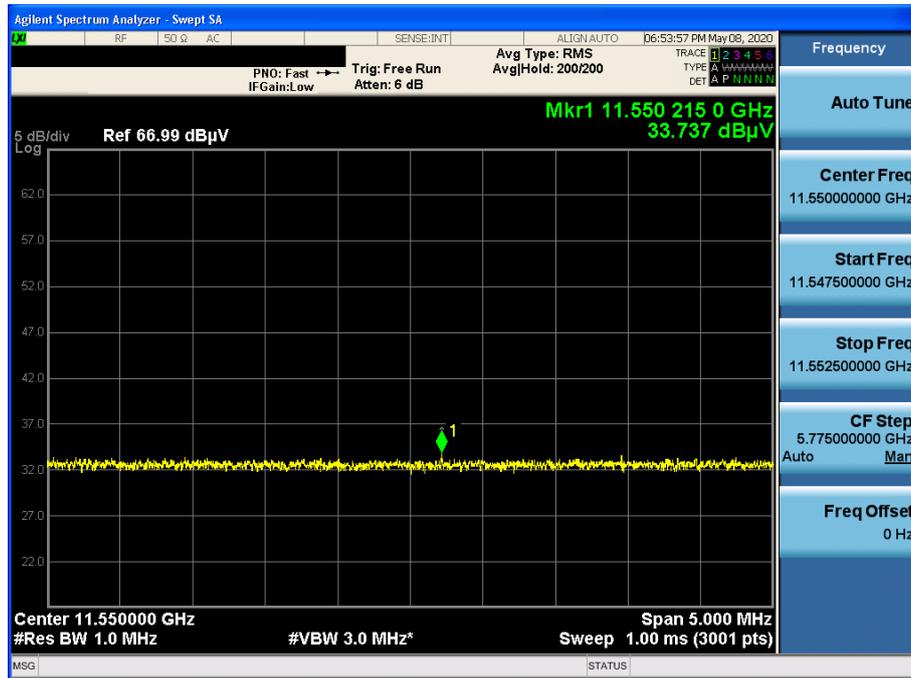
Detector Mode : AV





TM 4 & U-NII 3 & Ch.155 & X axis & Ver

Detector Mode : AV



Unwanted Emissions (Radiated) Test Plot: Wireless Charging

802.11ac(VHT80) & U-NII 1 & Ch.42 & X axis & Ver

Detector Mode : PK



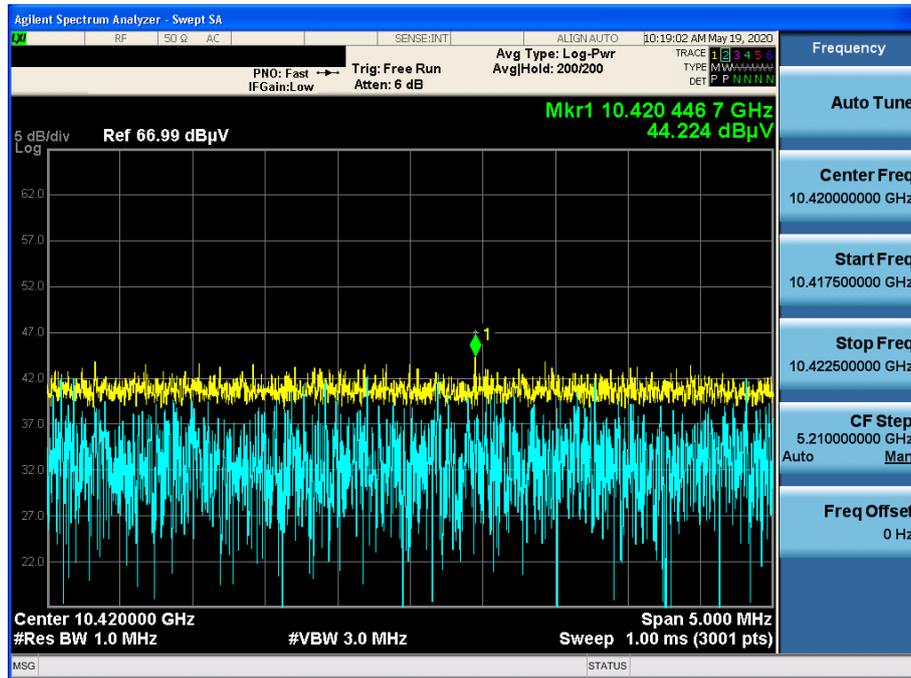
802.11ac(VHT80) & U-NII 1 & Ch.42 & X axis & Ver

Detector Mode : AV



802.11ac(VHT80) & U-NII 1 & Ch.42 & X axis & Hor

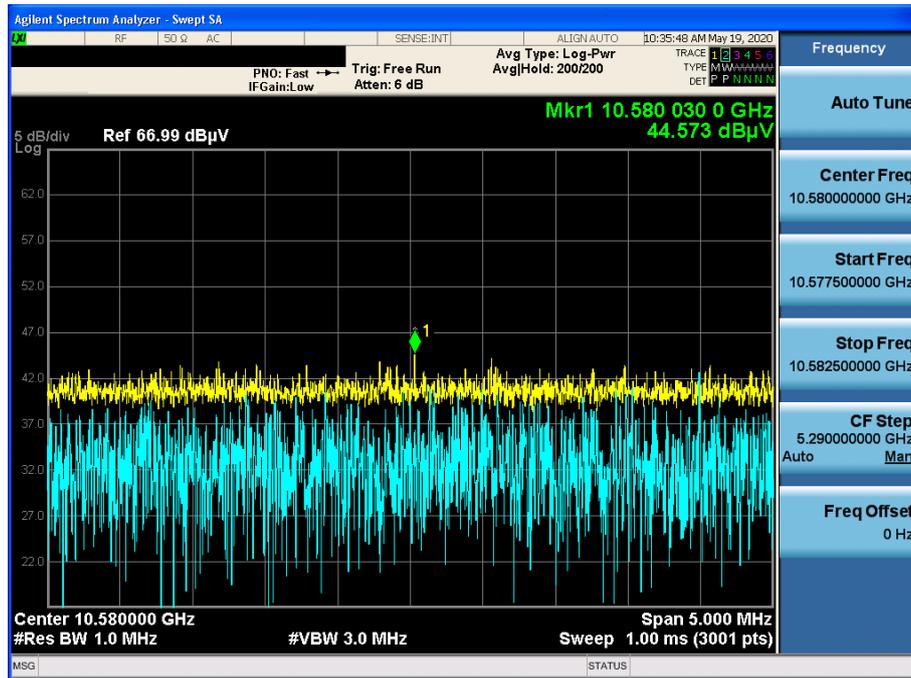
Detector Mode : PK





802.11ac(VHT80) & U-NII 2A & Ch.58 & X axis & Hor

Detector Mode : AV

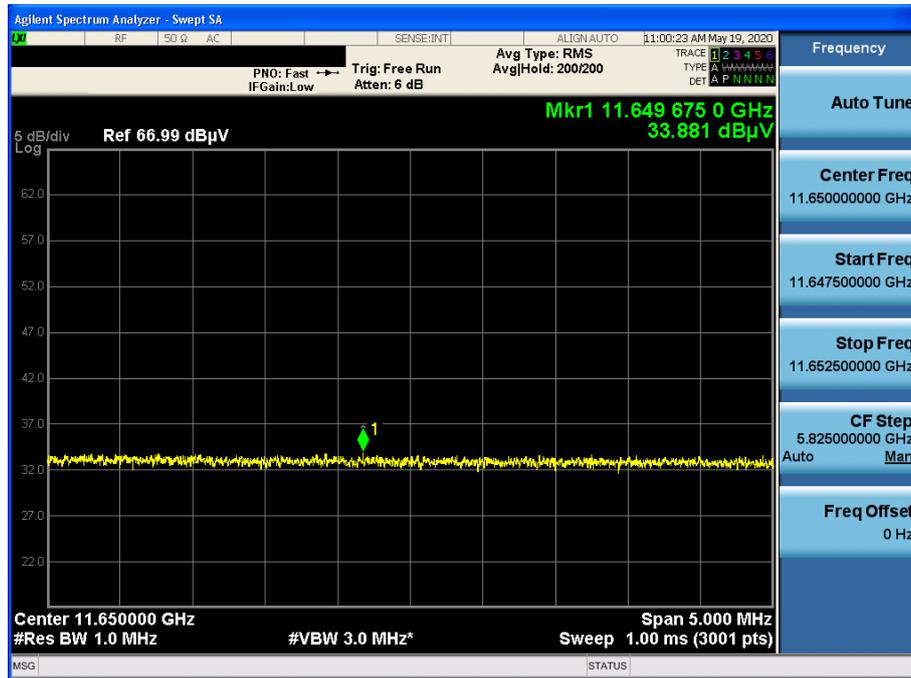






802.11n(VHT20) & U-NII 3 & Ch.165 & X axis & Hor

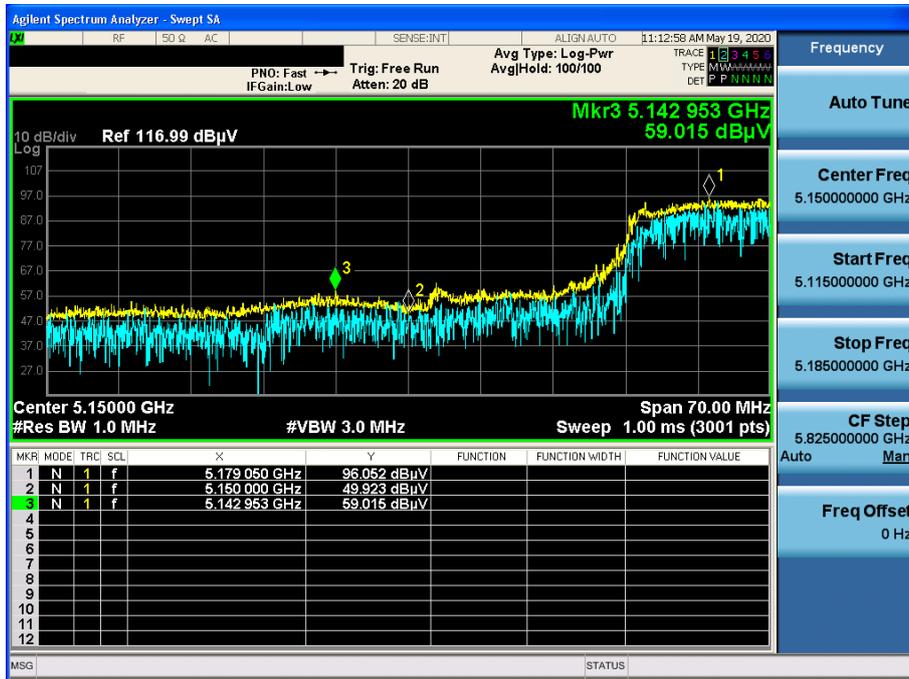
Detector Mode : AV



Unwanted Emissions (Radiated) Test Plot : Dual Display

802.11ac(VHT80) & U-NII 1 & Ch.42 & X axis & Ver

Detector Mode : PK



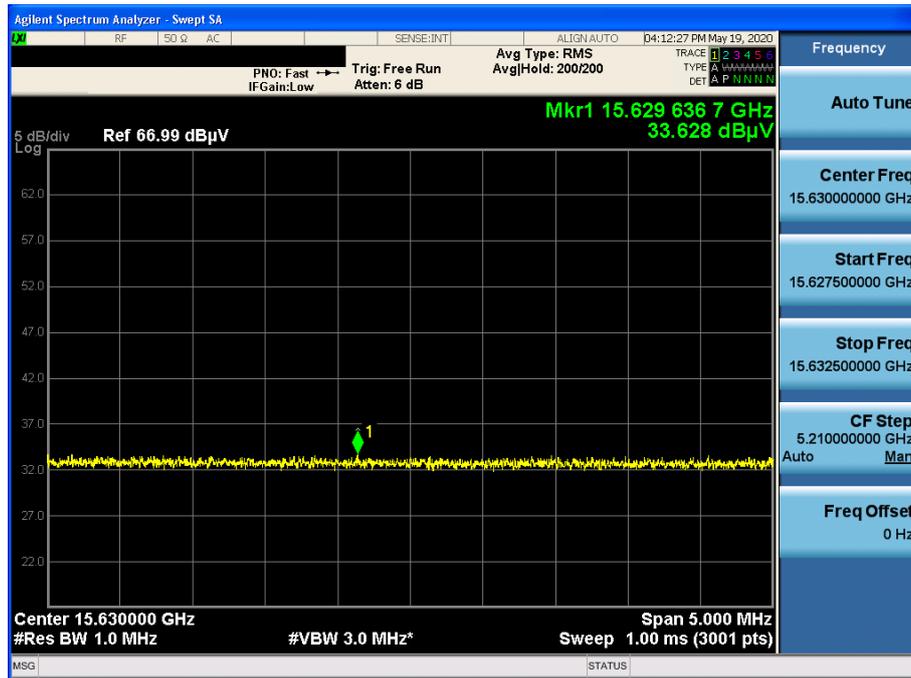
802.11ac(VHT80) & U-NII 1 & Ch.42 & X axis & Ver

Detector Mode : AV



802.11ac(VHT80) & U-NII 1 & Ch.42 & X axis & Ver

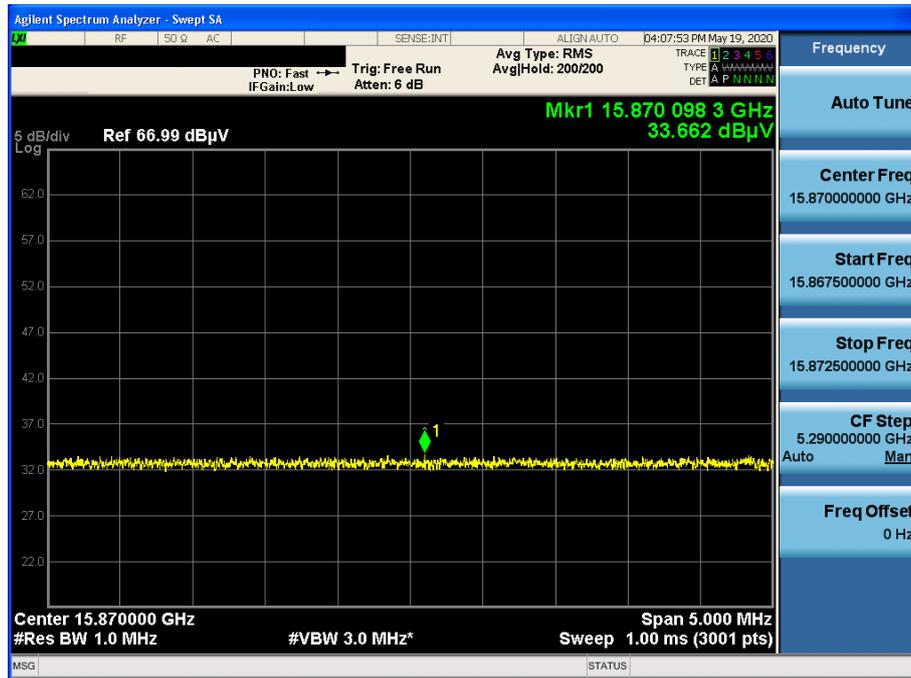
Detector Mode : AV





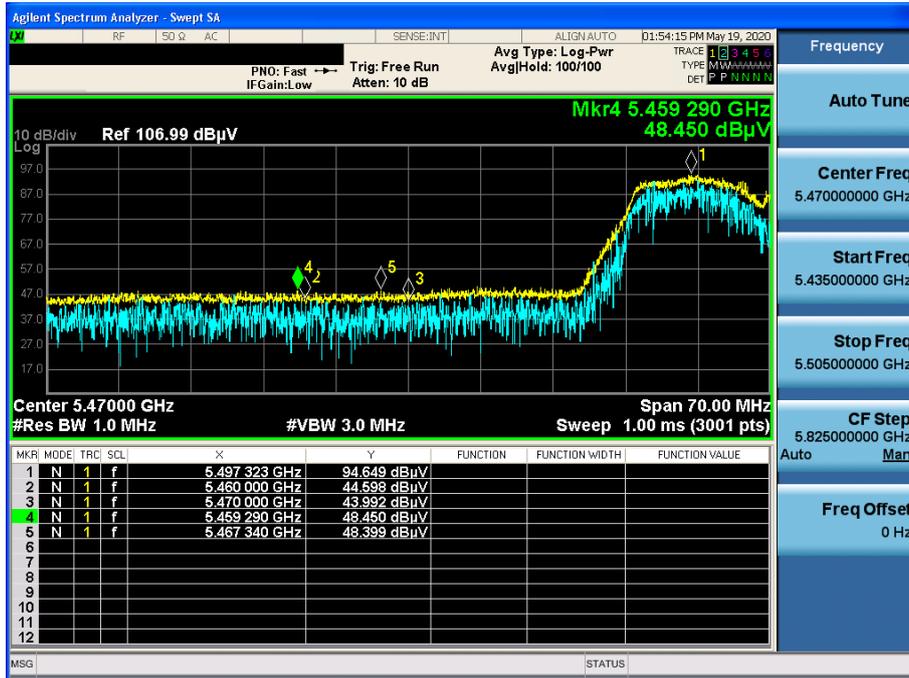
802.11n(VHT80) & U-NII 2A & Ch.58 & X axis & Ver

Detector Mode : AV



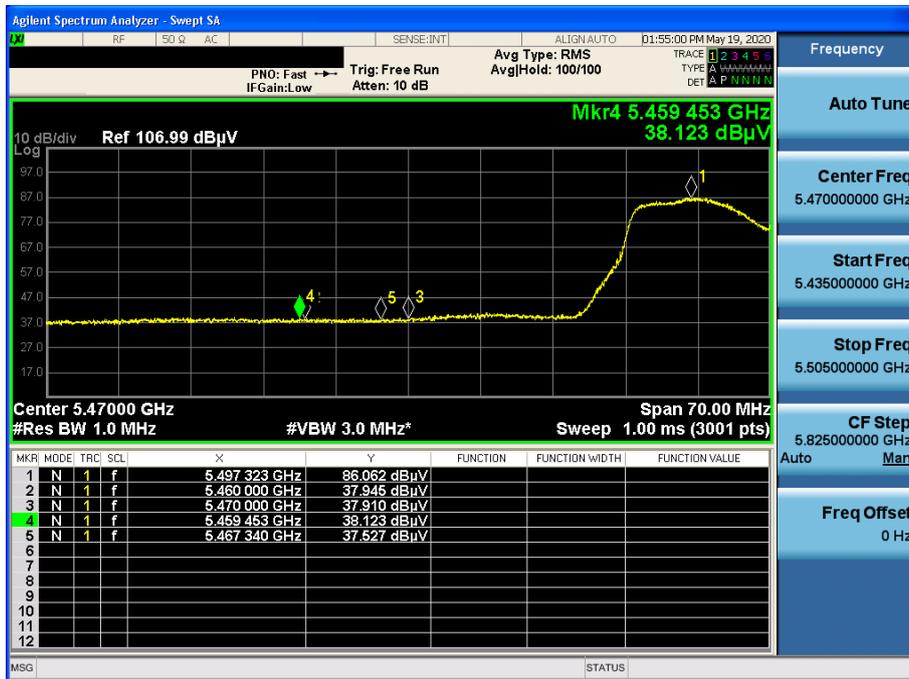
802.11ac(VHT40) & U-NII 2C & Ch.102 & X axis & Ver

Detector Mode : PK



802.11ac(VHT40) & U-NII 2C & Ch.102 & X axis & Ver

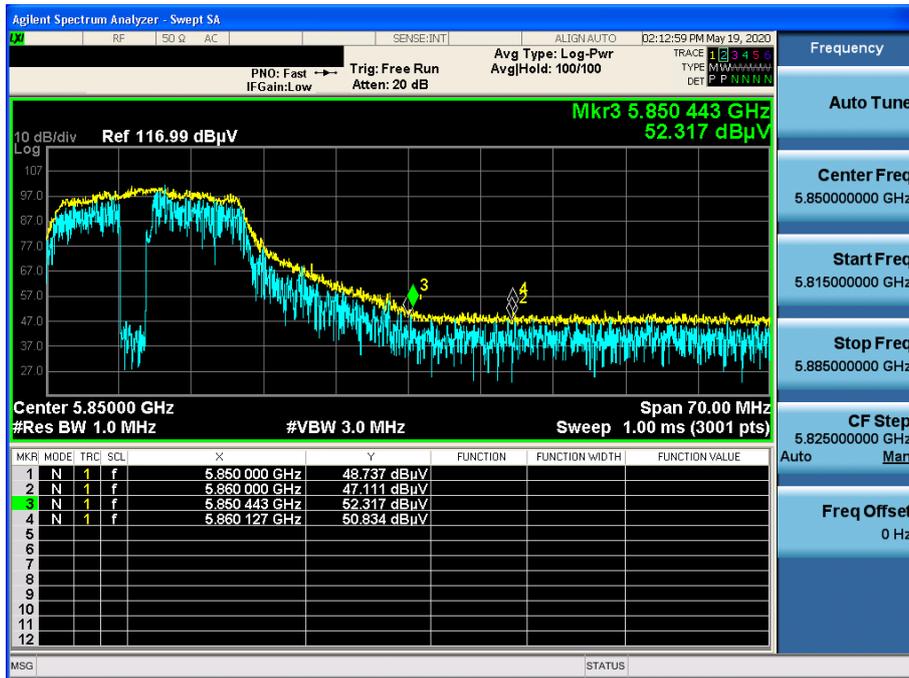
Detector Mode : AV





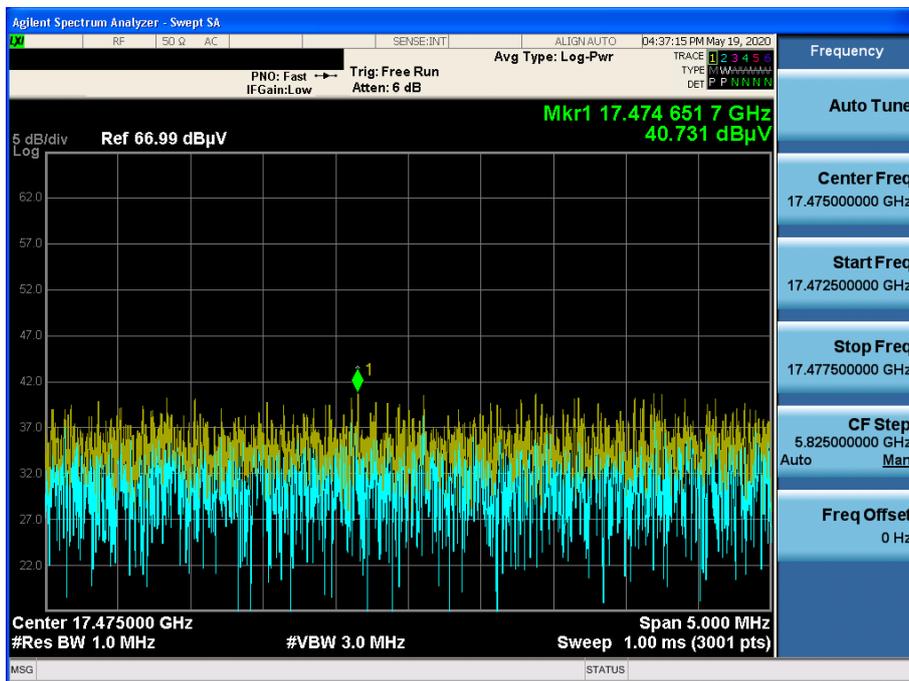
802.11n(HT20) & U-NII 3 & Ch.165 & X axis & Ver

Detector Mode : PK



802.11n(HT20) & U-NII 3 & Ch.165 & X axis & Ver

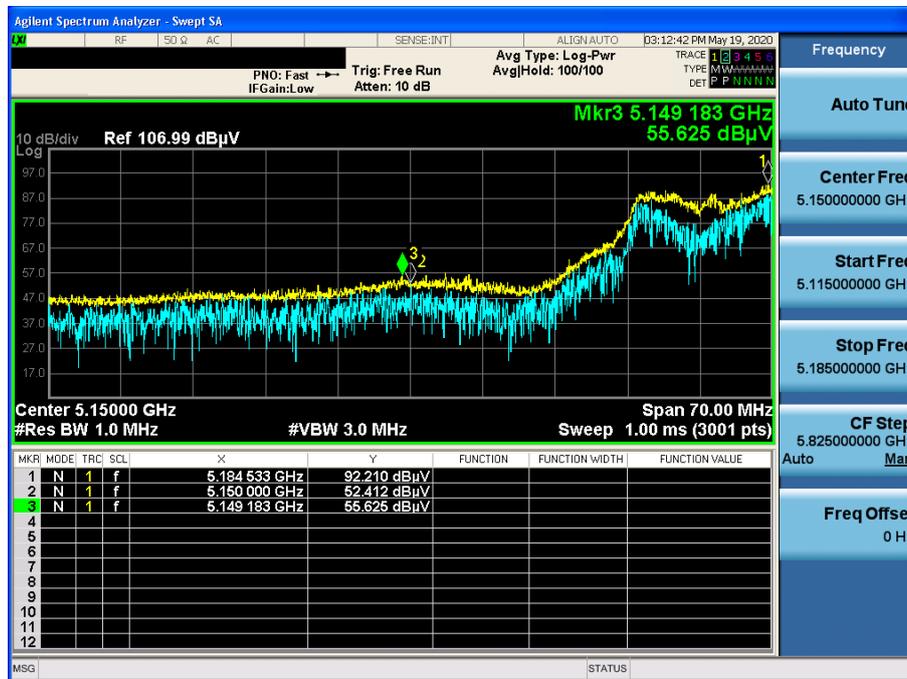
Detector Mode : PK



Unwanted Emissions (Radiated) Test Plot : Dual Display + WPC

802.11ac(VHT80) & U-NII 1 & Ch.42 & X axis & Ver

Detector Mode : PK



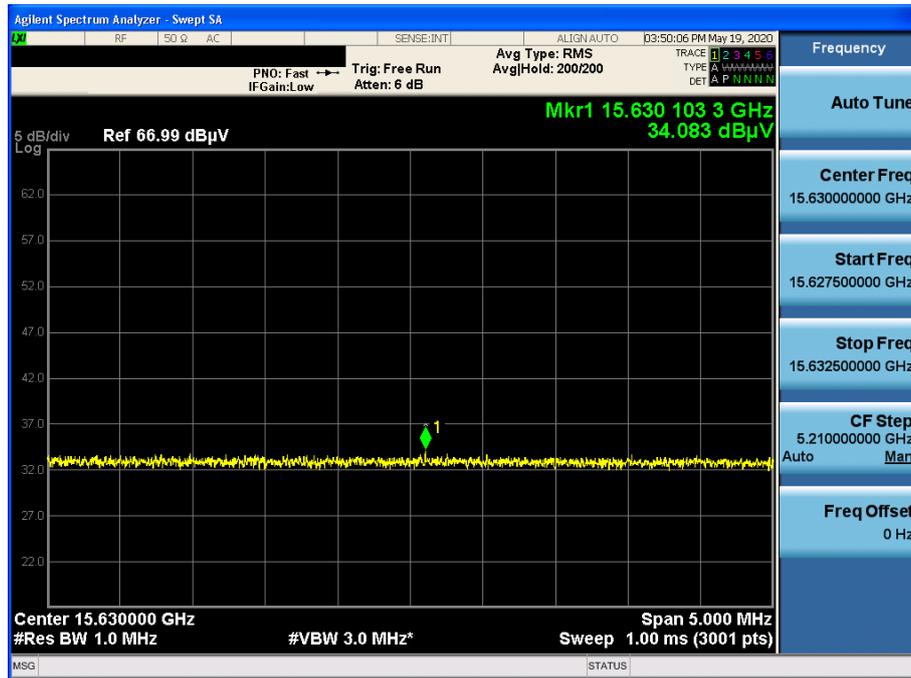
802.11ac(VHT80) & U-NII 1 & Ch.42 & X axis & Ver

Detector Mode : AV



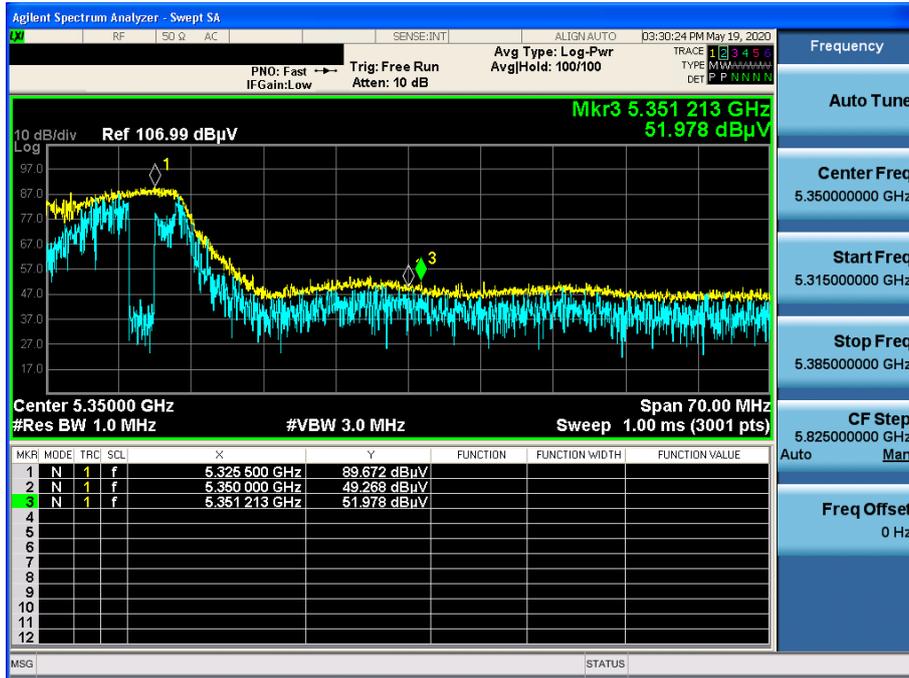
802.11ac(VHT80) & U-NII 1 & Ch.42 & X axis & Ver

Detector Mode : AV



802.11ac(VHT80) & U-NII 2A & Ch.58 & X axis & Ver

Detector Mode : PK



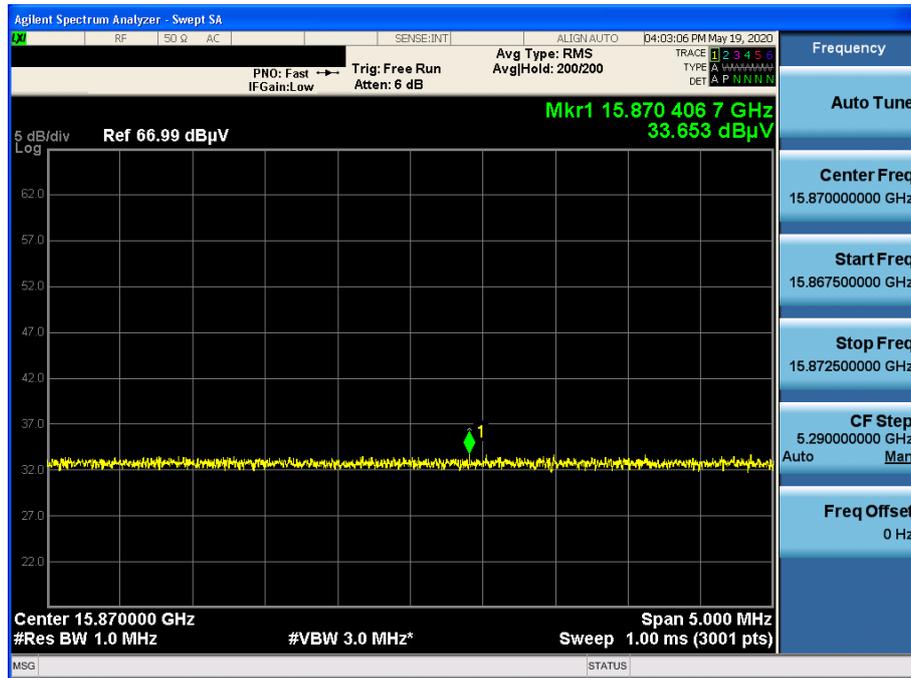
802.11ac(VHT80) & U-NII 2A & Ch.58 & X axis & Ver

Detector Mode : AV



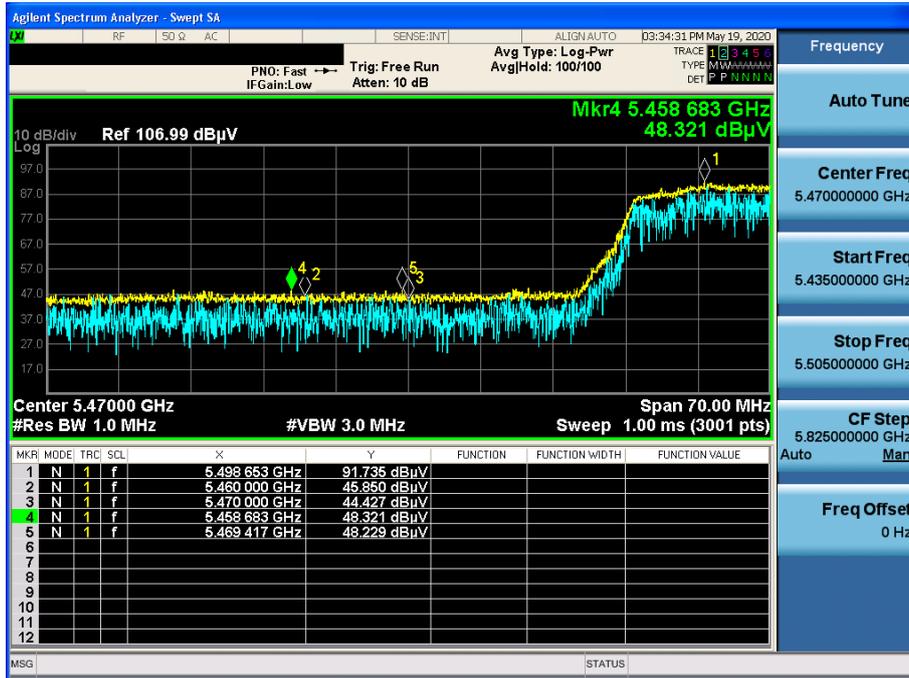
802.11ac(VHT80) & U-NII 2A & Ch.58 & X axis & Ver

Detector Mode : AV



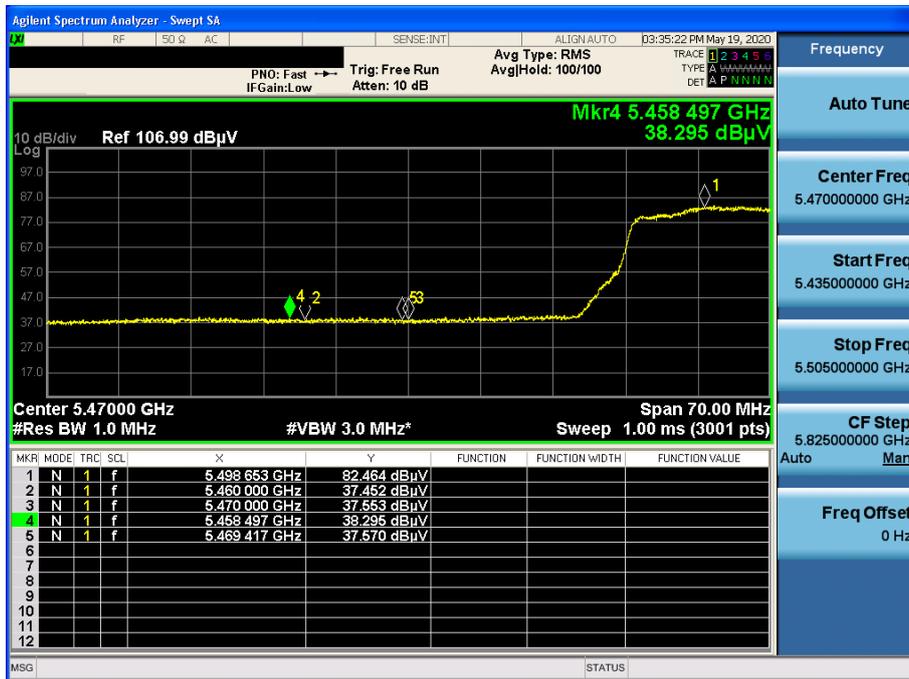
802.11ac(VHT40) & U-NII 2C & Ch.102 & X axis & Ver

Detector Mode : PK



802.11ac(VHT40) & U-NII 2C & Ch.102 & X axis & Ver

Detector Mode : AV



802.11ac(VHT40) & U-NII 2C & Ch.142 & X axis & Ver

Detector Mode : AV

