

Test Report No.50287371 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50287371AppendixD)

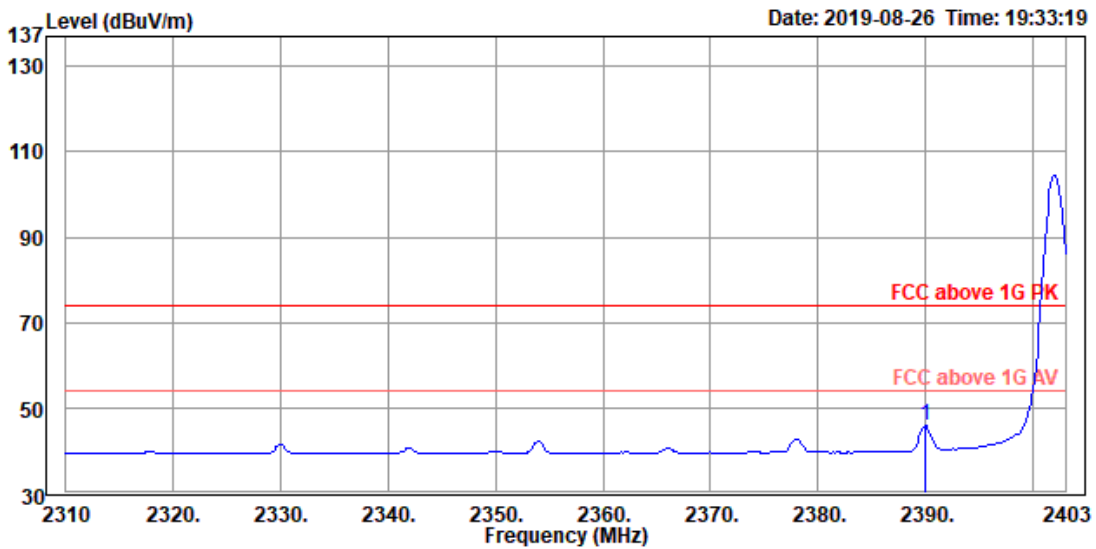
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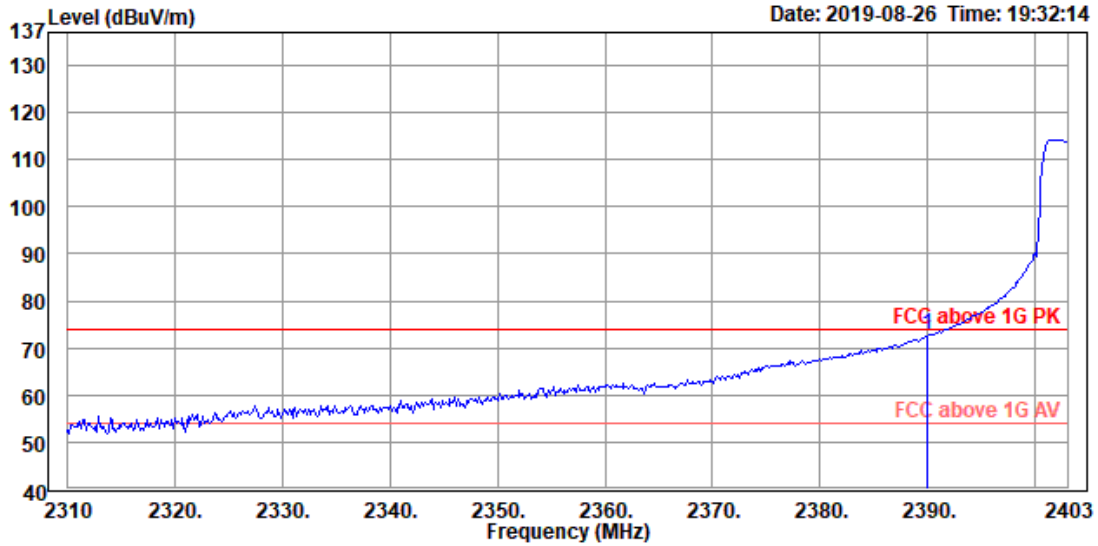


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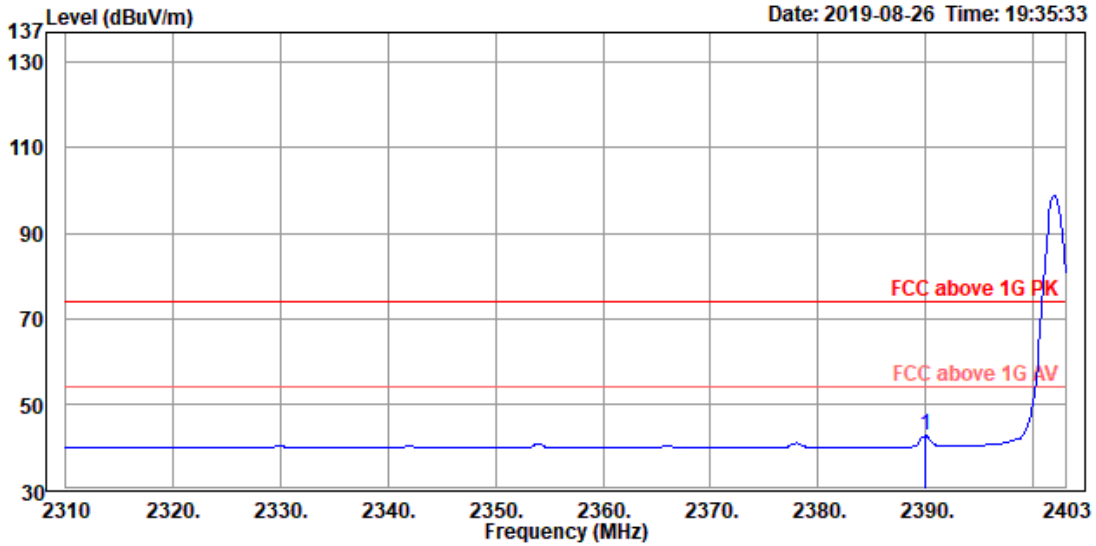
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m HORIZONTAL
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2402
 Memo : Z(平躺)

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 2390.000	54.00	-8.26	45.74	54.00	-8.26	100	90 Average



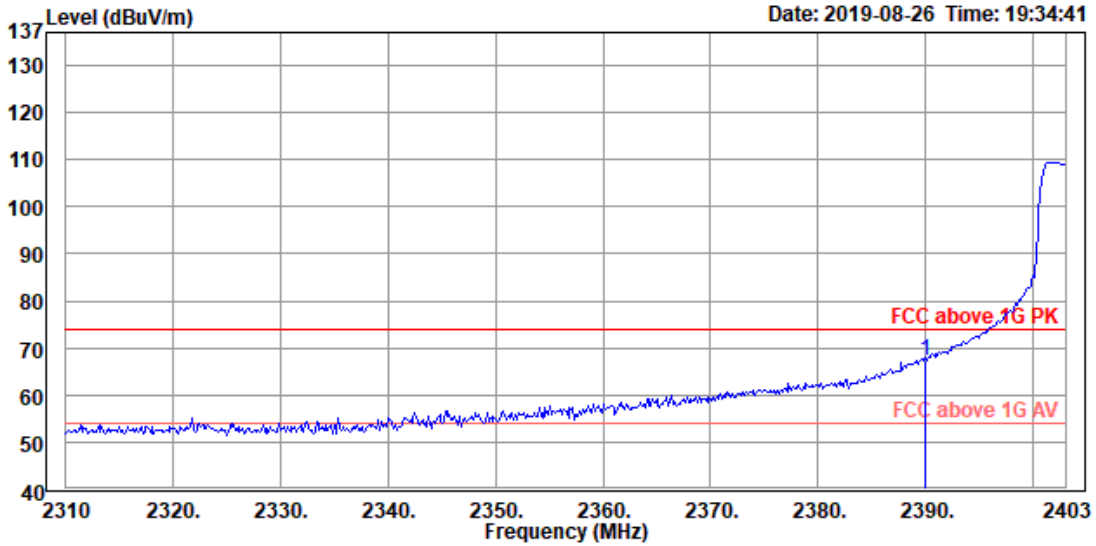
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m HORIZONTAL
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2402
 Memo : Z(平躺)

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 2390.000	81.14	-8.26	72.88	74.00	-1.12	100	90 Peak



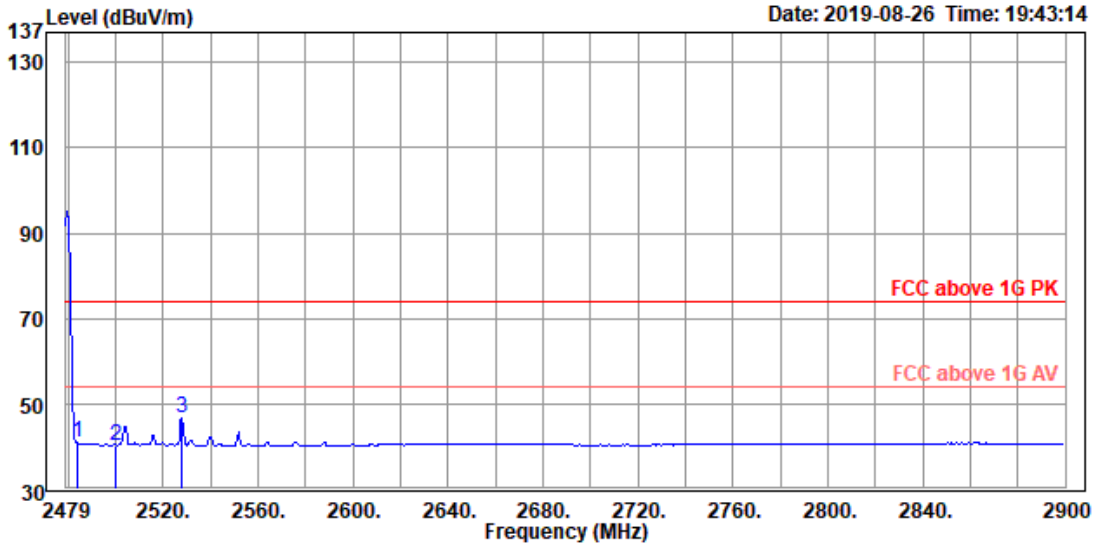
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m Vertical
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2402
 Memo : Z(平躺)

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 2390.000	50.87	-8.26	42.61	54.00	-11.39	100	218 Average



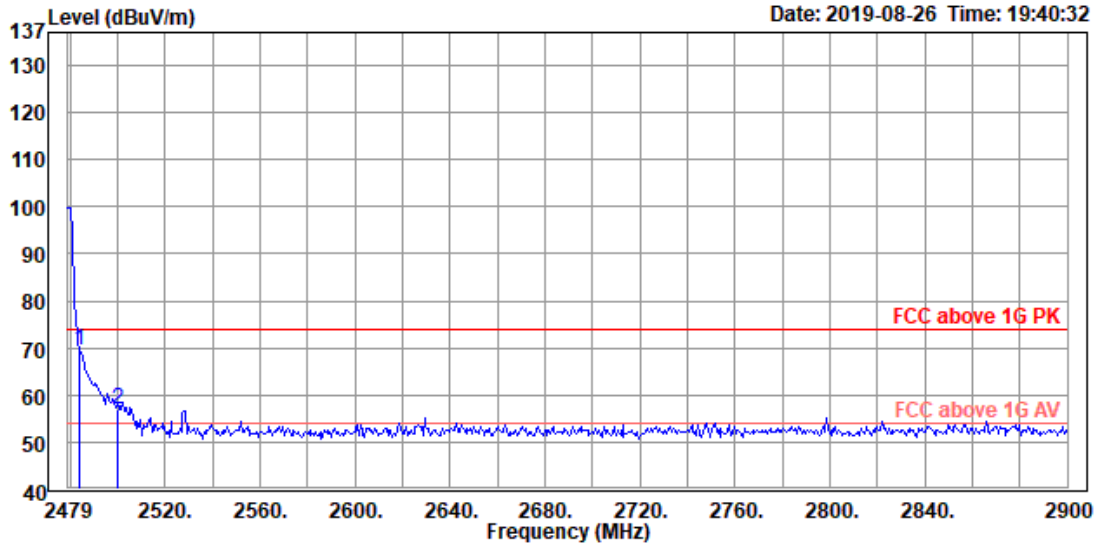
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m Vertical
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2402
 Memo : Z(平躺)

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 2390.000	75.67	-8.26	67.41	74.00	-6.59	100	218 Peak



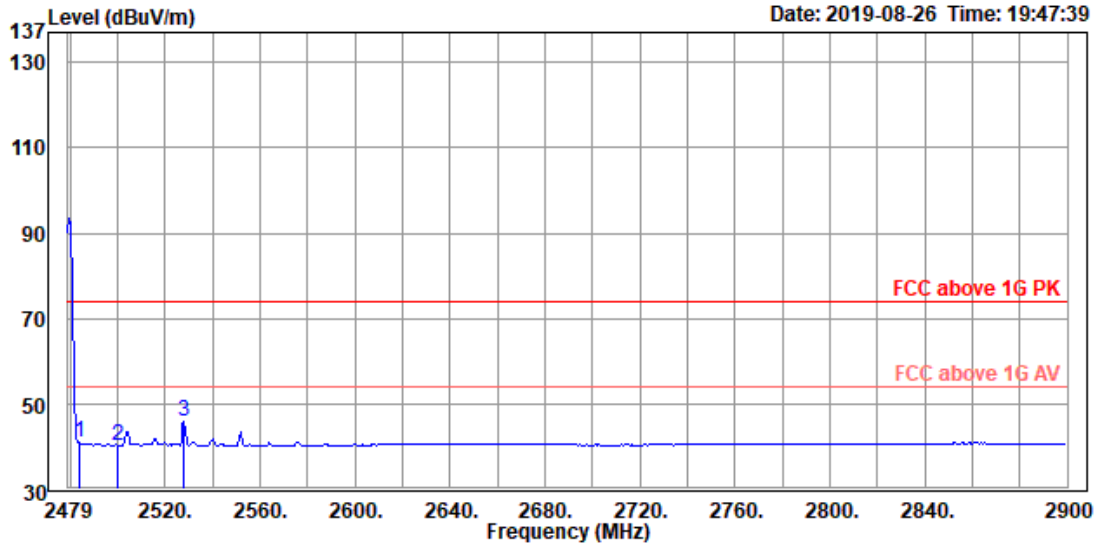
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m HORIZONTAL
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2480
 Memo : Z(平躺)

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	2483.500	49.09	-8.11	40.98	54.00	-13.02	100 140 Average
2	2500.000	48.51	-8.15	40.36	54.00	-13.64	100 140 Average
3	2527.812	54.91	-8.03	46.88	54.00	-7.12	100 140 Average



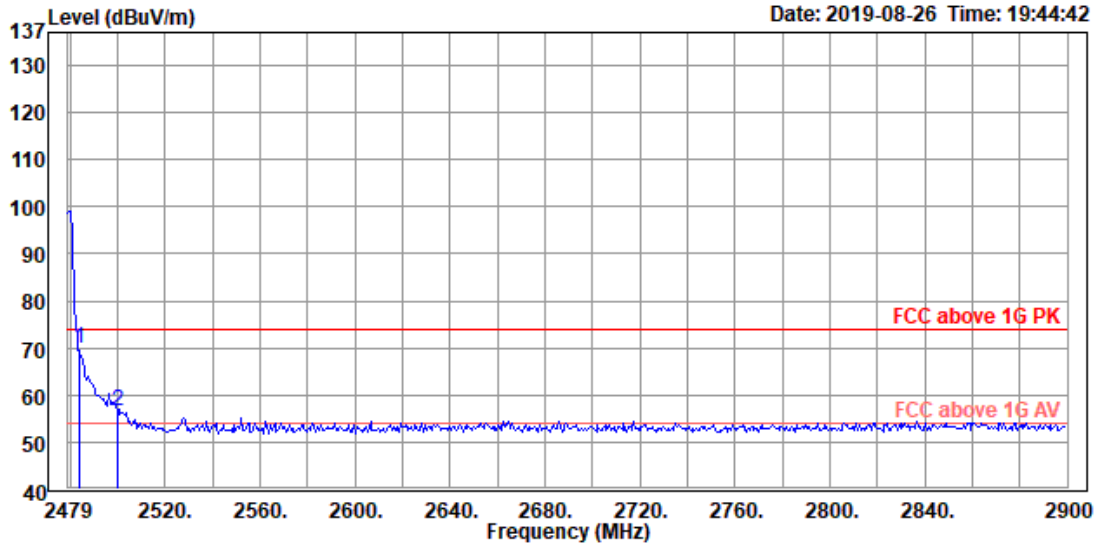
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m HORIZONTAL
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2480
 Memo : Z(平躺)

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	2483.500	77.60	-8.11	69.49	74.00	-4.51	100 140 Peak
2	2500.000	65.25	-8.15	57.10	74.00	-16.90	100 140 Peak



Site : 966A Chamber A
 Condition : FCC above 1G PK 3m Vertical
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2480
 Memo : Z(平躺)

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	2483.500	49.03	-8.11	40.92	54.00	-13.08	100 245 Average
2	2500.000	48.47	-8.15	40.32	54.00	-13.68	100 245 Average
3	2527.812	54.04	-8.03	46.01	54.00	-7.99	100 245 Average



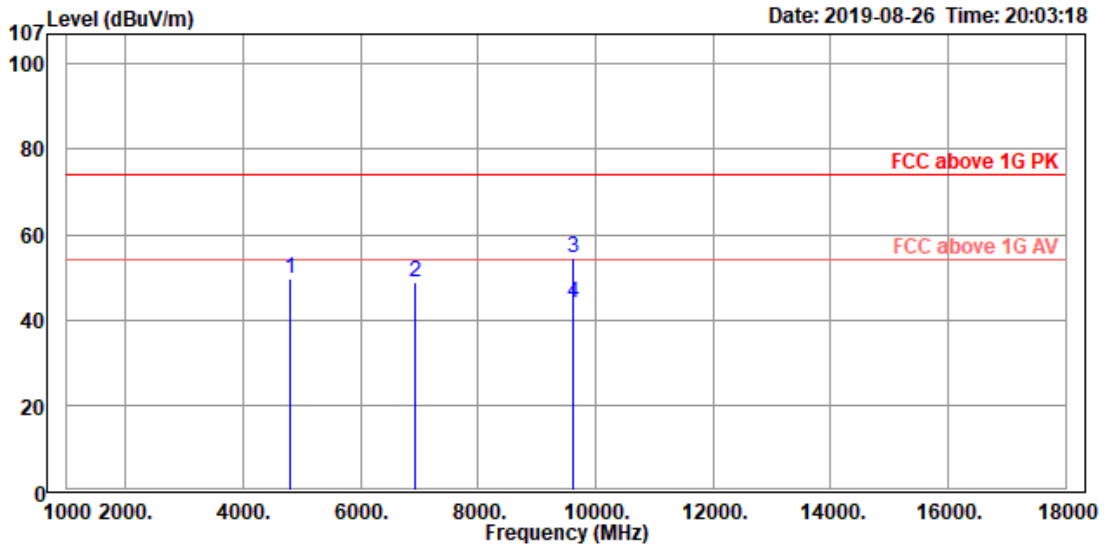
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m Vertical
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2480
 Memo : Z(平躺)

	Read	Limit	Over	APos	TPos	Remark
Freq	Level	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm deg
1	2483.500	77.89	-8.11	69.78	74.00	-4.22 100 245 Peak
2	2500.000	64.83	-8.15	56.68	74.00	-17.32 100 245 Peak

Spurious Emissions, TX Mode, 1-18G

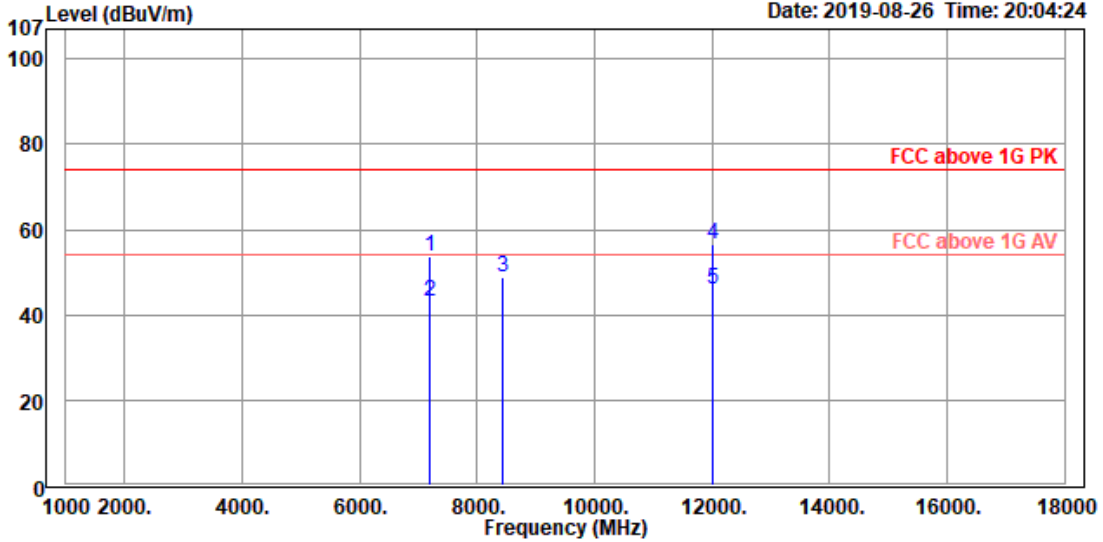


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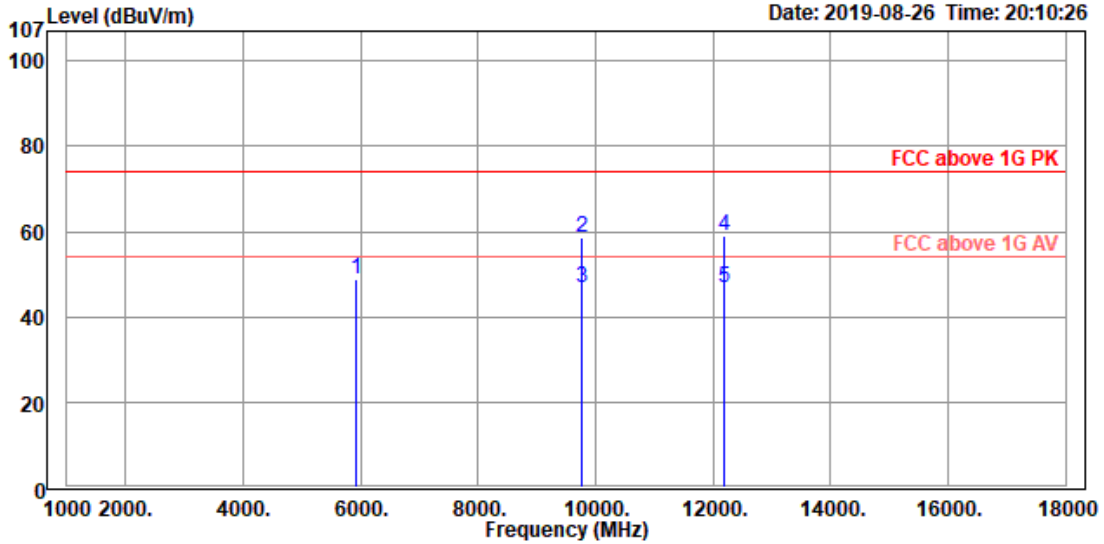
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m horizontal
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2402
 Memo : Z(平躺)

	Read Freq	Level	Factor	Level	Limit	Over	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	4804.000	52.26	-2.44	49.82	74.00	-24.18	100	82	Peak
2	6937.681	43.99	4.91	48.90	74.00	-25.10	100	23	Peak
3	9608.000	48.08	6.45	54.53	74.00	-19.47	100	17	Peak
4	9608.000	37.36	6.45	43.81	54.00	-10.19	100	17	Average



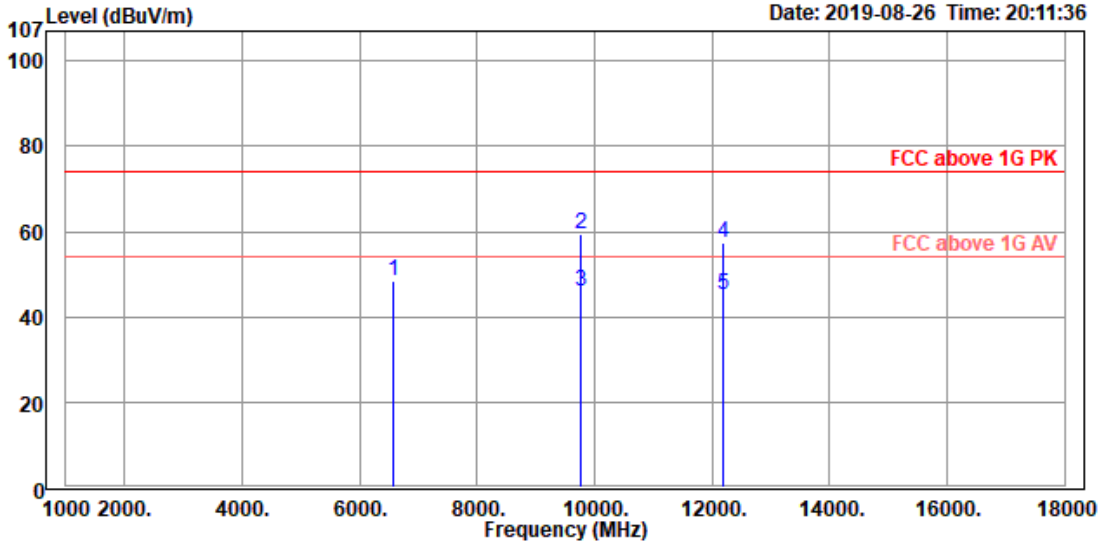
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m vertical
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2402
 Memo : Z(平躺)

	Read	Limit	Over	APos	TPos	Remark
Freq	Level	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm deg
1	7206.000	48.08	5.47	53.55	74.00	-20.45 100 102 Peak
2	7206.000	37.51	5.47	42.98	54.00	-11.02 100 102 Average
3	8440.580	42.21	6.55	48.76	74.00	-25.24 100 192 Peak
4	12010.000	49.83	6.57	56.40	74.00	-17.60 100 134 Peak
5	12010.000	39.26	6.57	45.83	54.00	-8.17 100 134 Average



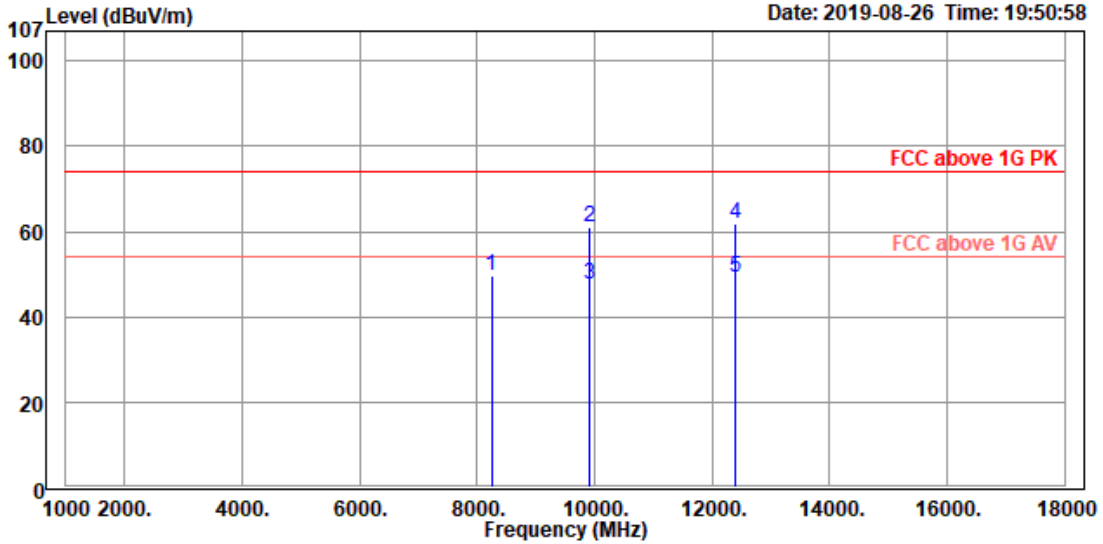
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m horizontal
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2440
 Memo : Z(平躺)

	Read	Limit	Over	APos	TPos	Remark
Freq	Level	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm deg
1	5927.536	45.92	2.94	48.86	74.00	-25.14 100 159 Peak
2	9760.000	52.55	6.14	58.69	74.00	-15.31 100 32 Peak
3	9760.000	40.83	6.14	46.97	54.00	-7.03 100 32 Average
4	12200.000	51.40	7.40	58.80	74.00	-15.20 100 6 Peak
5	12200.000	39.56	7.40	46.96	54.00	-7.04 100 6 Average



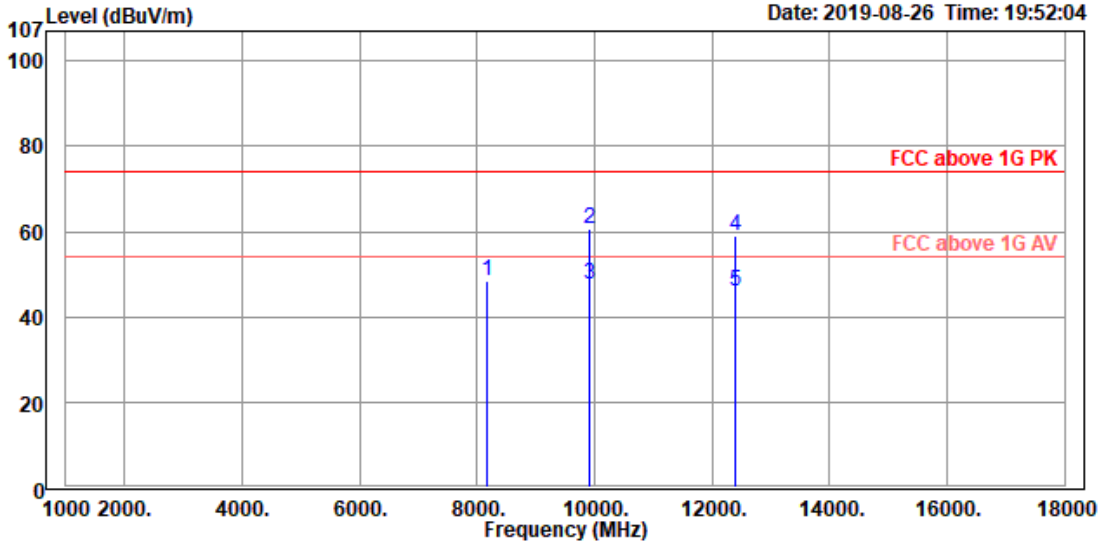
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m vertical
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2440
 Memo : Z(平躺)

	Read	Limit	Over	APos	TPos	Remark
Freq	Level	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm deg
1	6568.116	43.14	5.30	48.44	74.00	-25.56 100 124 Peak
2	9760.000	53.10	6.14	59.24	74.00	-14.76 100 131 Peak
3	9760.000	39.84	6.14	45.98	54.00	-8.02 100 131 Average
4	12200.000	49.77	7.40	57.17	74.00	-16.83 100 322 Peak
5	12200.000	37.81	7.40	45.21	54.00	-8.79 100 322 Average



Site : 966A Chamber A
 Condition : FCC above 1G PK 3m horizontal
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2480
 Memo : Z(平躺)

	Read	Limit	Over	APos	TPos	Remark
Freq	Level	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm deg
1	8243.479	43.47	6.34	49.81	74.00	-24.19 100 35 Peak
2	9920.000	54.91	5.92	60.83	74.00	-13.17 100 35 Peak
3	9920.000	41.81	5.92	47.73	54.00	-6.27 100 35 Average
4	12400.000	53.63	8.20	61.83	74.00	-12.17 100 0 Peak
5	12400.000	40.83	8.20	49.03	54.00	-4.97 100 0 Average



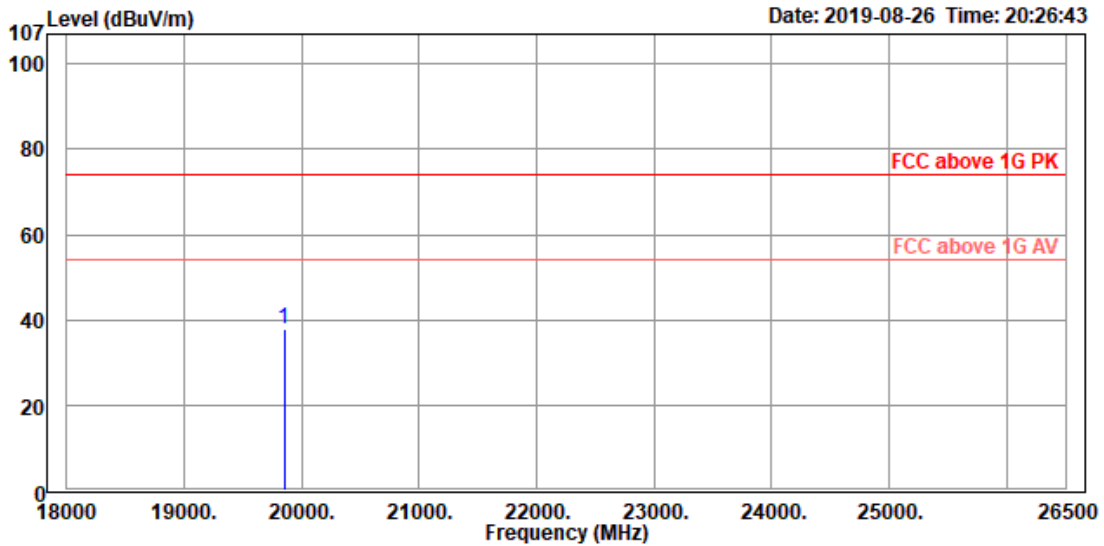
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m vertical
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2480
 Memo : Z(平躺)

	Read	Limit	Over	APos	TPos	Remark
Freq	Level	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm deg
1	8169.565	42.00	6.22	48.22	74.00	-25.78 100 326 Peak
2	9920.000	54.59	5.92	60.51	74.00	-13.49 100 145 Peak
3	9920.000	41.59	5.92	47.51	54.00	-6.49 100 145 Average
4	12400.000	50.95	8.20	59.15	74.00	-14.85 100 158 Peak
5	12400.000	37.83	8.20	46.03	54.00	-7.97 100 158 Average

Spurious Emissions, TX Mode, 18-26G

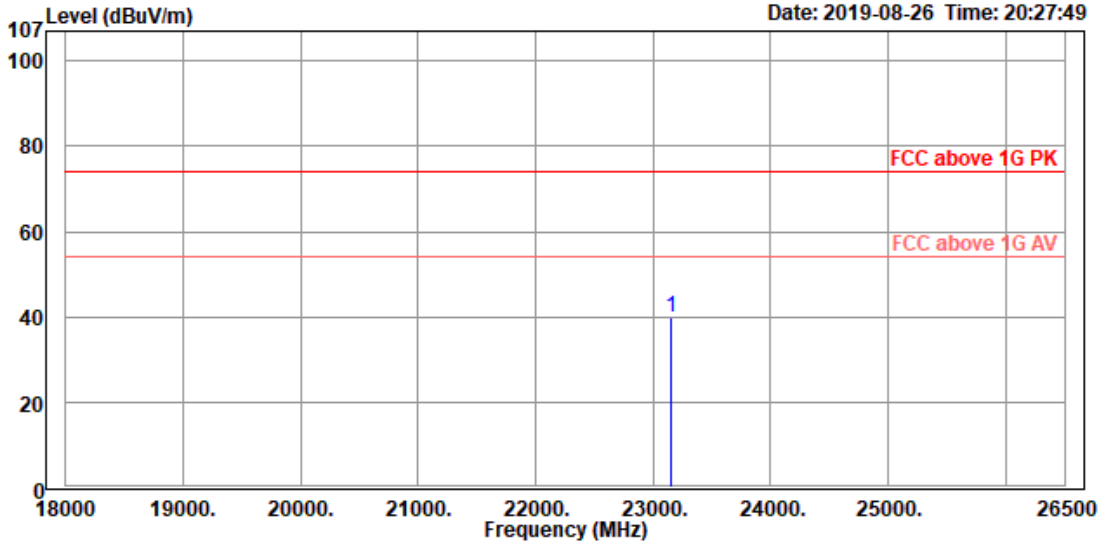


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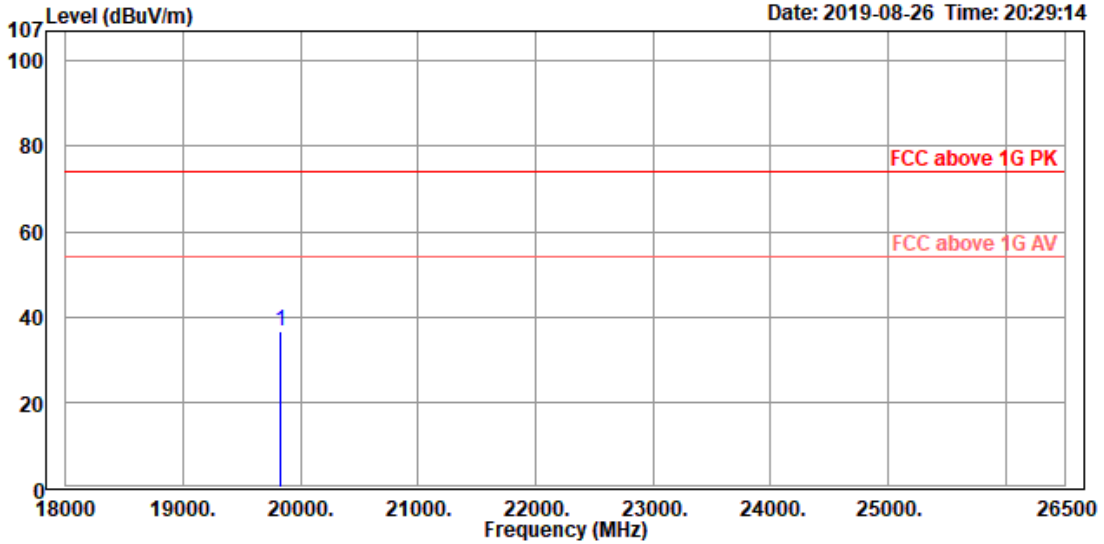
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m horizontal
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2402
 Memo : Z(平躺)

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 19847.830	40.15	-2.11	38.04	74.00	-35.96	100	359 Peak



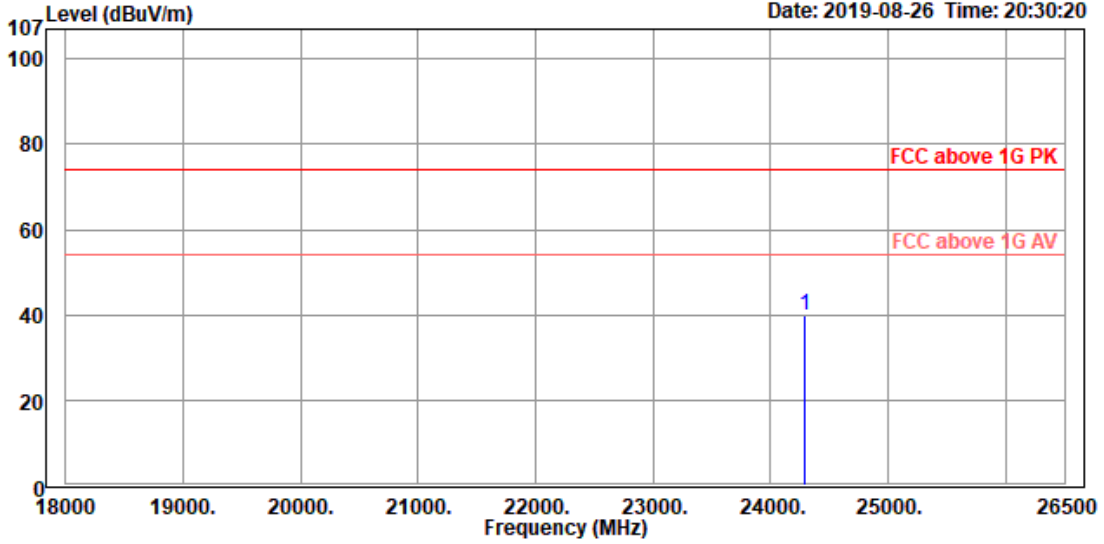
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m vertical
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2402
 Memo : Z(平躺)

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 23149.280	39.09	0.84	39.93	74.00	-34.07	100	126 Peak



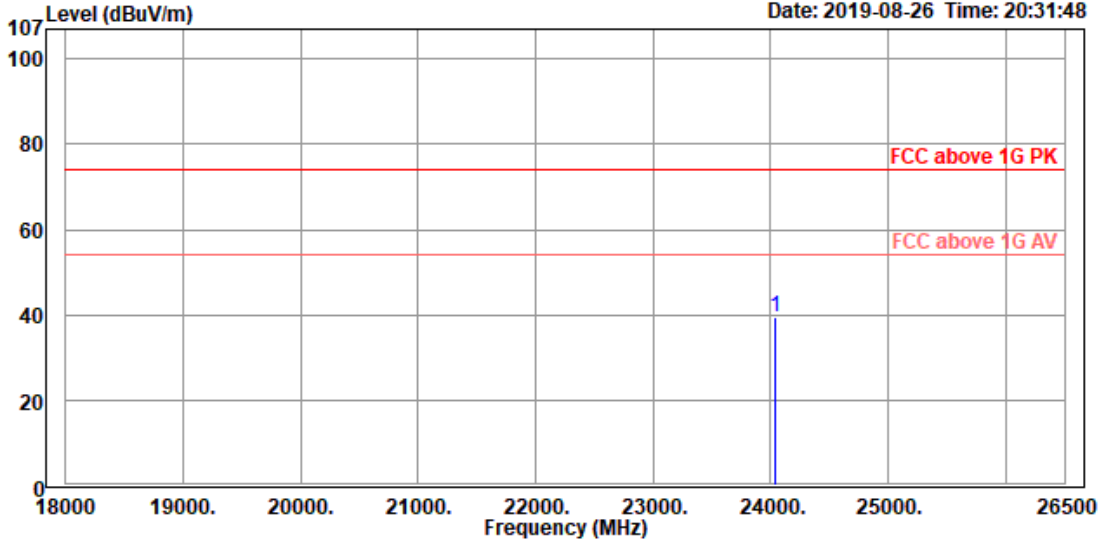
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m horizontal
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2440
 Memo : Z(平躺)

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 19823.190	38.95	-2.17	36.78	74.00	-37.22	100	113 Peak



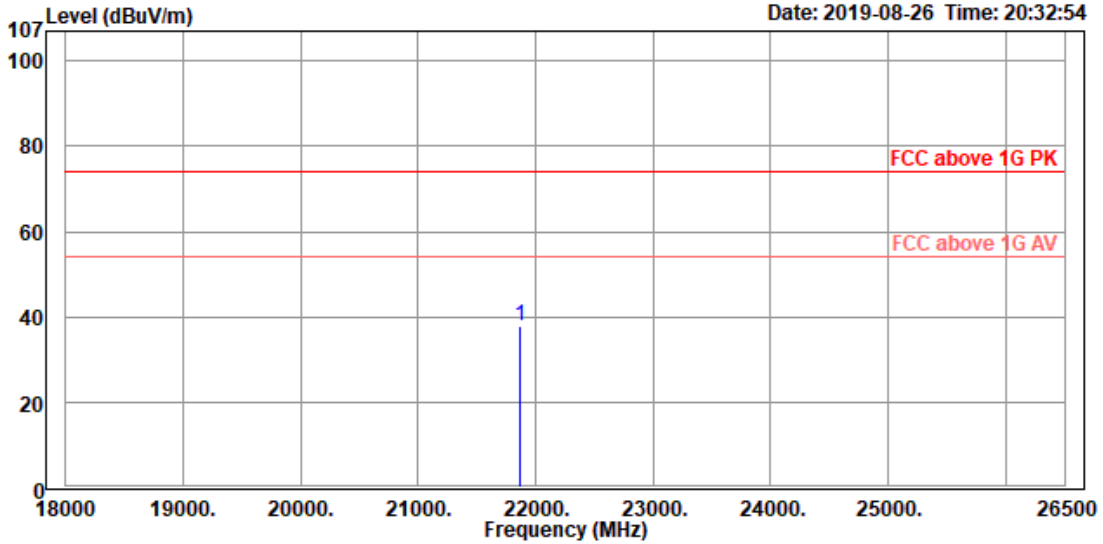
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m vertical
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2440
 Memo : Z(平躺)

	Read	Limit	Over	APos	TPos	Remark
Freq	Level	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm deg
1 24294.930	38.57	1.35	39.92	74.00	-34.08	100 35 Peak



Site : 966A Chamber A
 Condition : FCC above 1G PK 3m horizontal
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2480
 Memo : Z(平躺)

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 24036.230	37.94	1.43	39.37	74.00	-34.63	100	122 Peak



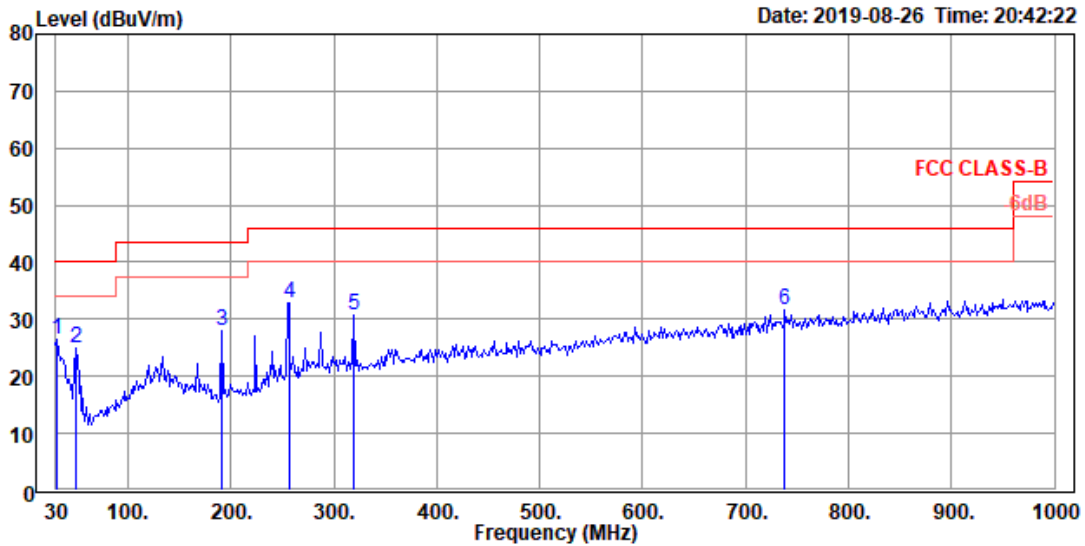
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m vertical
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2480
 Memo : Z(平躺)

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 21868.120	38.45	-0.46	37.99	74.00	-36.01	100	360 Peak

Spurious Emissions, TX Mode, 30M-1G

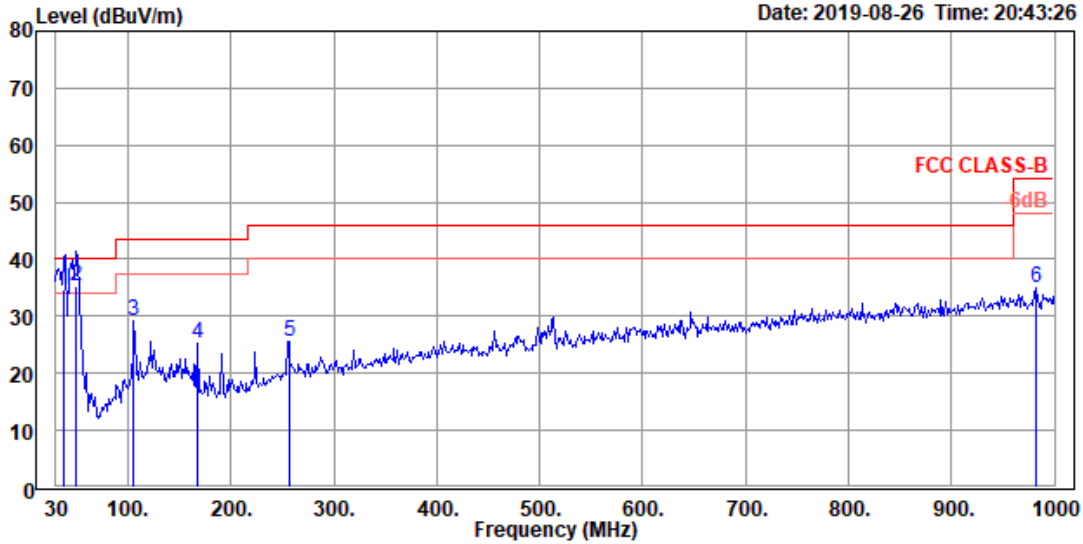


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Site : 966A Chamber A
 Condition : FCC CLASS-B 3m horizontal
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2440
 Memo : Z(平躺)

	Read	Limit	Over	APos	TPos	Remark
Freq	Level	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm deg
1	31.406	27.09	-0.71	26.38	40.00	-13.62 100 84 QP
2	49.681	35.96	-10.97	24.99	40.00	-15.01 100 13 QP
3	191.667	37.21	-9.30	27.91	43.50	-15.59 100 84 QP
4	256.333	37.96	-5.15	32.81	46.00	-13.19 100 193 QP
5	319.594	35.01	-4.39	30.62	46.00	-15.38 100 211 QP
6	738.522	29.46	2.08	31.54	46.00	-14.46 100 164 QP



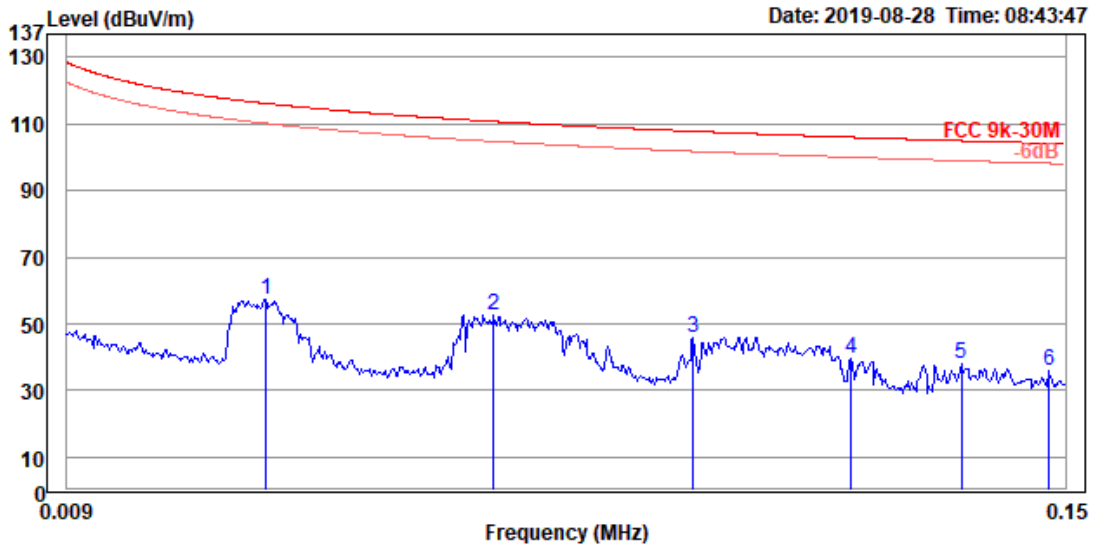
Site : 966A Chamber A
 Condition : FCC CLASS-B 3m vertical
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2440
 Memo : Z(平躺)

	Read	Limit	Over	APos	TPos	Remark
Freq	Level	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm deg
1 !	38.435	39.40	-4.83	34.57	40.00	-5.43 100 39 QP
2 !	49.681	46.39	-10.97	35.42	40.00	-4.58 100 299 QP
3	105.913	37.58	-8.52	29.06	43.50	-14.44 100 353 QP
4	167.768	34.04	-8.73	25.31	43.50	-18.19 100 228 QP
5	256.333	30.75	-5.15	25.60	46.00	-20.40 100 0 QP
6	981.725	29.30	5.63	34.93	54.00	-19.07 100 198 QP

Spurious Emissions, TX Mode, 9k-30M

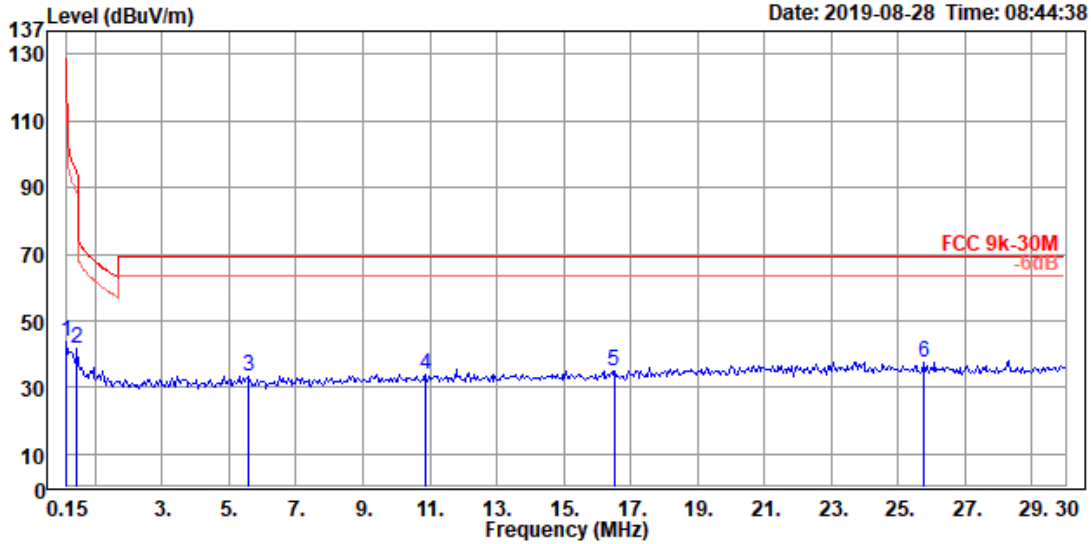


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Site : 966A Chamber A
 Condition : FCC 9k-30M 3m vertical
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2440
 Memo : Z(平躺)

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	0.037	38.24	18.95	57.19	116.23	-59.04	100 213 QP
2	0.069	34.36	18.43	52.79	110.78	-57.99	100 49 QP
3	0.097	28.05	17.76	45.81	107.82	-62.01	100 28 QP
4	0.120	21.66	17.78	39.44	106.03	-66.59	100 342 QP
5	0.135	20.02	17.85	37.87	104.97	-67.10	100 296 QP
6	0.148	18.07	17.90	35.97	104.21	-68.24	100 57 QP



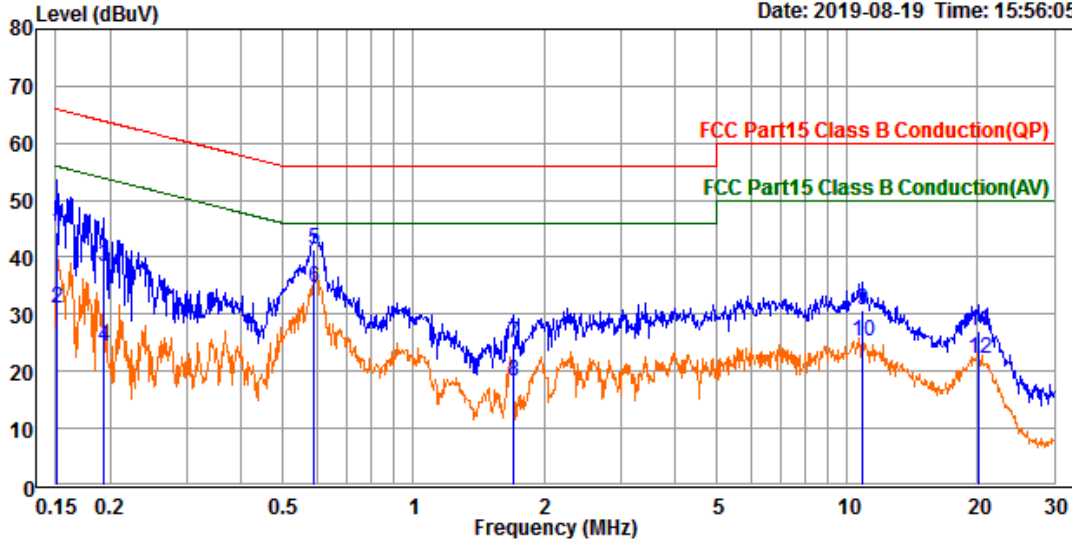
Site : 966A Chamber A
 Condition : FCC 9k-30M 3m vertical
 Test Engineer: Kevin Kuo
 Product : BLE Module
 Model No. : TBD
 Test Rating : 5Vdc
 Tmp/Hum : 21°C / 52%
 Power Setting: -13.6
 Mode : TX-2440
 Memo : Z(平躺)

	Read	Limit	Over	APos	TPos	Remark
Freq	Level	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm deg
1	0.150	25.84	17.91	43.75	104.08	-60.33 100 133 QP
2	0.453	23.40	18.47	41.87	94.48	-52.61 100 36 QP
3	5.558	14.03	19.46	33.49	69.50	-36.01 100 252 QP
4	10.879	13.31	20.49	33.80	69.50	-35.70 100 147 QP
5	16.503	13.79	21.06	34.85	69.50	-34.65 100 3 QP
6	25.760	15.87	21.66	37.53	69.50	-31.97 100 261 QP

Mains Spurious Emissions

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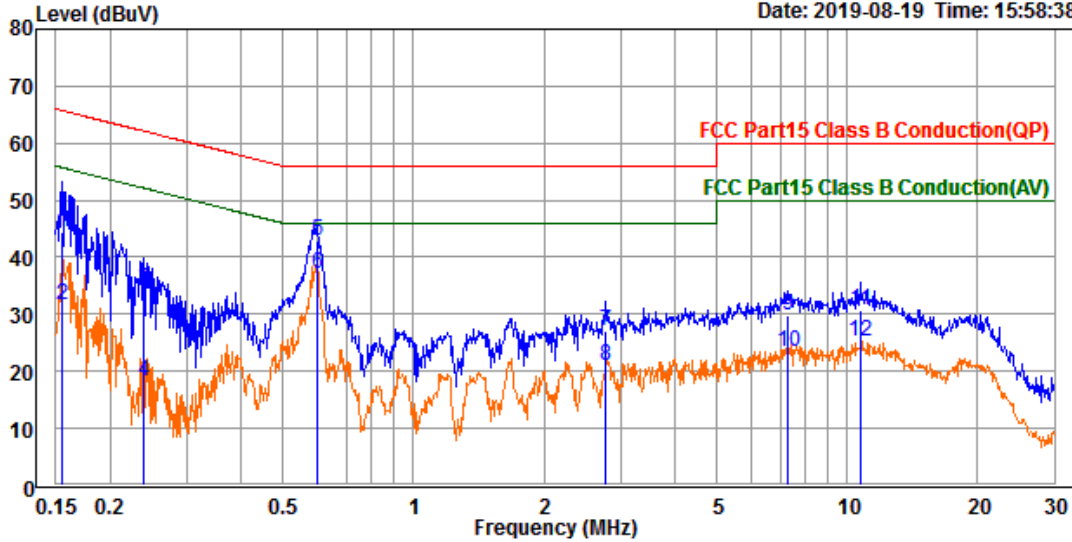
Trace: 1

Site : Conduction room
 Condition : FCC Part15 Class B Conduction(QP) line1
 Test Engineer: Amy Hsu
 Product : BLE module
 Model No. : T.B.D
 Test Rating : 120Vac/60Hz
 Tmp/Hum : 23.5°C / 42%
 Power Setting: 7dBm
 Mode : BLE 2402 TX
 Memo :

	Read Freq	Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.151	34.89	9.61	44.50	65.96	-21.46	QP
2	0.151	21.28	9.61	30.89	55.96	-25.07	Average
3	0.192	28.73	9.61	38.34	63.93	-25.59	QP
4	0.192	14.82	9.61	24.43	53.93	-29.50	Average
5	0.591	31.72	9.62	41.34	56.00	-14.66	QP
6	0.591	25.13	9.62	34.75	46.00	-11.25	Average
7	1.699	15.20	9.64	24.84	56.00	-31.16	QP
8	1.699	8.65	9.64	18.29	46.00	-27.71	Average
9	10.853	20.97	9.73	30.70	60.00	-29.30	QP
10	10.853	15.37	9.73	25.10	50.00	-24.90	Average
11	20.035	17.28	9.79	27.07	60.00	-32.93	QP
12	20.035	12.31	9.79	22.10	50.00	-27.90	Average

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Date: 2019-08-19 Time: 15:58:38



Trace: 1

Site : Conduction room
 Condition : FCC Part15 Class B Conduction(QP) neutral
 Test Engineer: Amy Hsu
 Product : BLE module
 Model No. : T.B.D
 Test Rating : 120Vac/60Hz
 Tmp/Hum : 23.5°C / 42%
 Power Setting: 7dBm
 Mode : BLE 2402 TX
 Memo :

	Read Freq	Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.155	34.86	9.62	44.48	65.75	-21.27	QP
2	0.155	22.04	9.62	31.66	55.75	-24.09	Average
3	0.238	24.86	9.62	34.48	62.15	-27.67	QP
4	0.238	8.50	9.62	18.12	52.15	-34.03	Average
5	0.600	33.27	9.63	42.90	56.00	-13.10	QP
6	0.600	27.38	9.63	37.01	46.00	-8.99	Average
7	2.783	17.33	9.66	26.99	56.00	-29.01	QP
8	2.783	11.25	9.66	20.91	46.00	-25.09	Average
9	7.320	20.08	9.71	29.79	60.00	-30.21	QP
10	7.320	13.86	9.71	23.57	50.00	-26.43	Average
11	10.691	20.87	9.75	30.62	60.00	-29.38	QP
12	10.691	15.63	9.75	25.38	50.00	-24.62	Average