

## APPENDIX B – TEST DATA OF RADIATED EMISSION

Note: The worst channel results are reflected in the report.

Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan

### **Radiated Emission Band Edge**

After comparison, the worst case attitude is EUT lay down.

Carrier frequency (MHz): 5180

Channel No.:36

Modulation Type: 802.11a

<b>Dectector: Peak</b>							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5180.0	47.23	94.13	N/A	N/A	12.40	34.50	Vertical
5150.0	17.93	64.83	-9.17	74.00	12.40	34.50	Vertical

<b>Dectector: Average</b>							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5180.0	36.43	83.33	N/A	N/A	12.40	34.50	Vertical
5150.0	5.26	52.16	-1.84	54.00	12.40	34.50	Vertical

Carrier frequency (MHz): 5240

Channel No.:48

Modulation Type: 802.11a

<b>Dectector: Peak</b>							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5240.0	48.38	95.28	N/A	N/A	12.40	34.50	Vertical
5250.0	25.24	72.14	-1.86	74.00	12.40	34.50	Vertical

<b>Dectector: Average</b>							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5240.0	36.30	83.20	N/A	N/A	12.40	34.50	Vertical
5250.0	3.03	49.93	-4.07	54.00	12.40	34.50	Vertical

Carrier frequency (MHz): 5260

Channel No.:52

Modulation Type: 802.11a

Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5260.0	49.82	96.72	N/A	N/A	12.40	34.50	Vertical
5240.0	18.42	65.32	-8.68	74.00	12.40	34.50	Vertical

Dectector: Average							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5260.0	38.24	85.14	N/A	N/A	12.40	34.50	Vertical
5240.0	5.80	52.70	-1.30	54.00	12.40	34.50	Vertical

Carrier frequency (MHz):5320

Channel No.:64

Modulation Type: 802.11a

Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5320.0	49.70	96.60	N/A	N/A	12.40	34.50	Vertical
5340.0	18.29	65.19	-8.81	74.00	12.40	34.50	Vertical

Dectector: Average							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5320.0	38.35	85.25	N/A	N/A	12.40	34.50	Vertical
5340.0	5.54	52.44	-1.56	54.00	12.40	34.50	Vertical

Carrier frequency (MHz): 5500

Channel No.:100

Modulation Type: 802.11a

Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5500.0	47.18	94.08	N/A	N/A	12.40	34.50	Vertical
5480.0	17.59	64.49	-9.51	74.00	12.40	34.50	Vertical

Dectector: Average							
Frequency	Reading Average	Average	Over Limt	Limit	Cable Loss	Antenna Factor	Polarity

(MHz)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	(dB)	
5500.0	34.20	81.10	N/A	N/A	12.40	34.50	Vertical
5480.0	5.08	51.98	-2.02	54.00	12.40	34.50	Vertical

Carrier frequency (MHz):5700  
Channel No.:140  
Modulation Type: 802.11a

Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5700.0	49.97	96.87	N/A	N/A	12.40	34.50	Vertical
5720.0	20.02	66.92	-7.08	74.00	12.40	34.50	Vertical

Dectector: Average							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5700.0	38.62	85.52	N/A	N/A	12.40	34.50	Vertical
5720.0	3.43	50.33	-3.67	54.00	12.40	34.50	Vertical

Carrier frequency (MHz): 5745  
Channel No.:149  
Modulation Type: 802.11a

Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5745.0	44.45	91.35	N/A	N/A	12.40	34.50	Vertical
5725.0	20.32	67.22	-6.78	74.00	12.40	34.50	Vertical

Dectector: Average							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5745.0	40.31	87.21	N/A	N/A	12.40	34.50	Vertical
5725.0	5.54	52.44	-1.56	54.00	12.40	34.50	Vertical

Carrier frequency (MHz):5825  
Channel No.:165  
Modulation Type: 802.11a

Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5825.0	44.25	91.15	N/A	N/A	12.40	34.50	Vertical

5845.0	20.94	67.84	-6.16	74.00	12.40	34.50	Vertical
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Dectector: Average							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5825.0	33.32	80.22	N/A	N/A	12.40	34.50	Vertical
5845.0	4.39	51.29	-2.71	54.00	12.40	34.50	Vertical

Carrier frequency (MHz):5720

Channel No.:144

Modulation Type: 802.11a

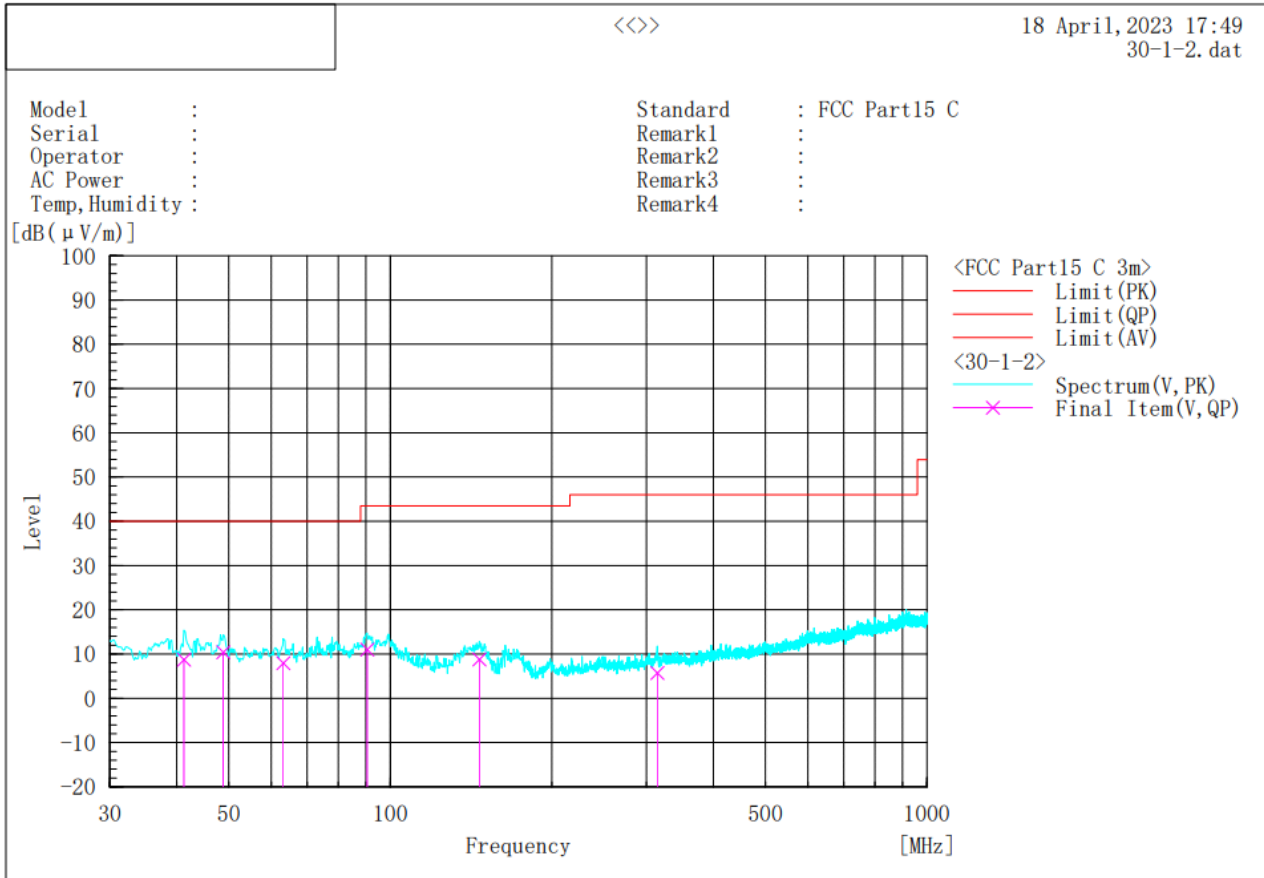
Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5720.0	44.66	91.56	N/A	N/A	12.40	34.50	Vertical
5850.0	20.64	67.54	-6.46	74.00	12.40	34.50	Vertical

Dectector: Average							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5720.0	34.25	81.15	N/A	N/A	12.40	34.50	Vertical
5850.0	5.12	52.02	-1.98	54.00	12.40	34.50	Vertical

**RE Sample Calculations**

After comparison, the worst case attitude is EUT lay down.

CH44

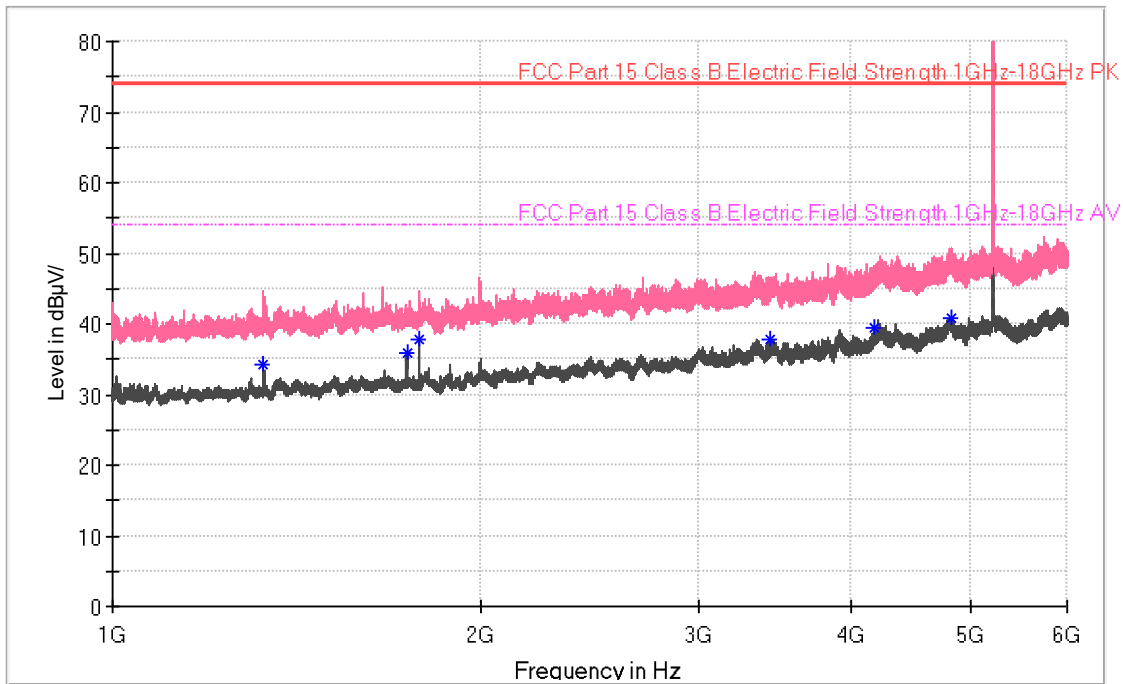


Final Result

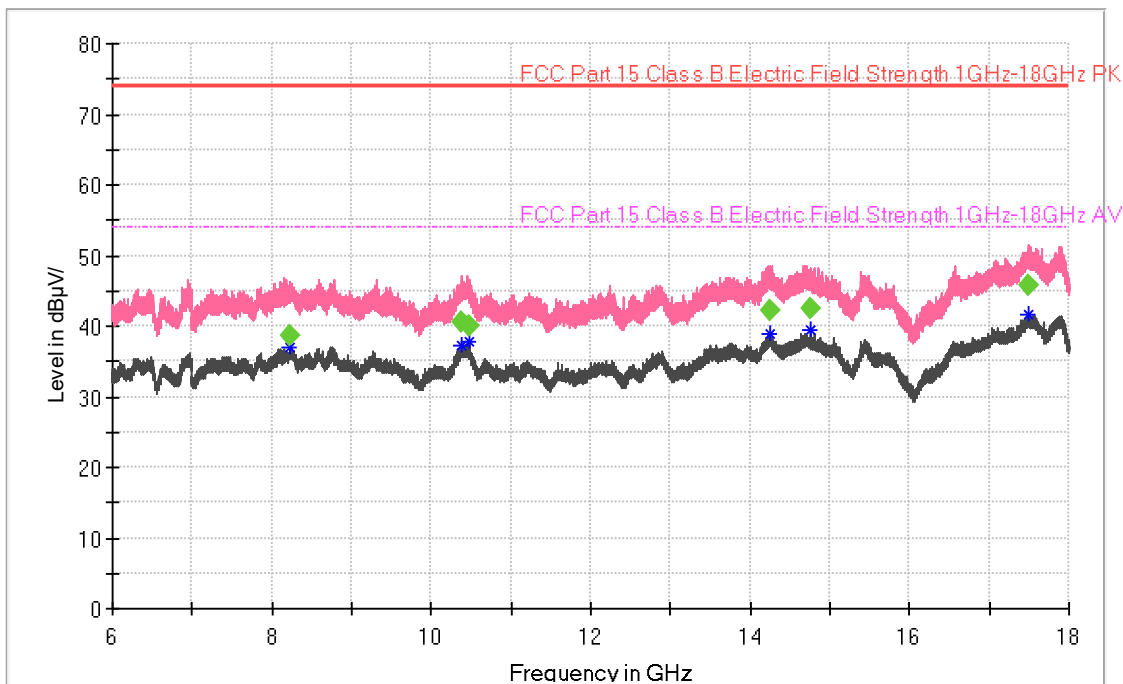
No.	Frequency [MHz]	(P)	Reading QP [dB (µV)]	c. f [dB(1/m)]	Result QP [dB (µV/m)]	Limit QP [dB (µV/m)]	Margin QP [dB]	Height [cm]	Angle [°]	Remark
1	41.254	V	55.7	-46.9	8.8	40.0	31.2	100.0	254.8	
2	48.822	V	56.6	-46.2	10.4	40.0	29.6	100.0	178.1	
3	63.181	V	55.8	-47.9	7.9	40.0	32.1	251.0	119.1	
4	90.540	V	60.5	-49.5	11.0	43.5	32.5	196.0	55.6	
5	146.423	V	60.3	-51.5	8.8	43.5	34.7	250.0	27.9	
6	314.267	V	51.2	-45.4	5.8	46.0	40.2	198.0	228.2	

Frequency Range: 30MHz -1GHz

Full Spectrum



Full Spectrum



Frequency (MHz)	Reading (dBµV)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Arpl (dB)	Polarity
1327.60	54.22	34.32	54.00	19.68	-19.90	Vertical
1737.10	54.57	35.77	54.00	18.23	-18.80	Vertical
1776.00	57.34	37.94	54.00	16.06	-19.40	Vertical
3435.50	53.14	37.84	54.00	16.16	-15.30	Vertical

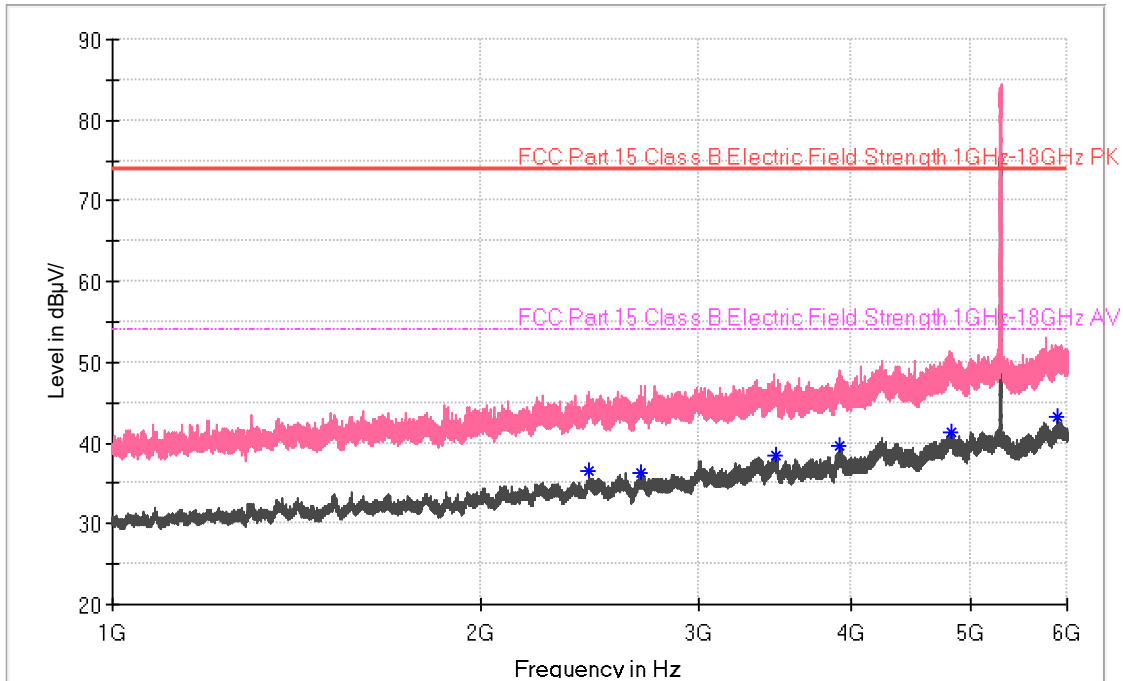
4182.50	53.21	39.41	54.00	14.59	-13.80	Vertical
4824.80	52.73	40.93	54.00	13.07	-11.80	Vertical

Frequency (MHz)	Reading (dBuV)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Arpl (dB)	Polarity
8236.00	52.00	38.60	54.00	15.40	-13.40	Vertical
10376.00	52.80	40.50	54.00	13.50	-12.30	Vertical
10470.80	52.23	40.13	54.00	13.87	-12.10	Vertical
14248.00	52.79	42.19	54.00	11.81	-10.60	Vertical
14765.60	54.00	42.50	54.00	11.50	-11.50	Vertical
17492.80	54.10	45.80	54.00	8.20	-8.30	Vertical

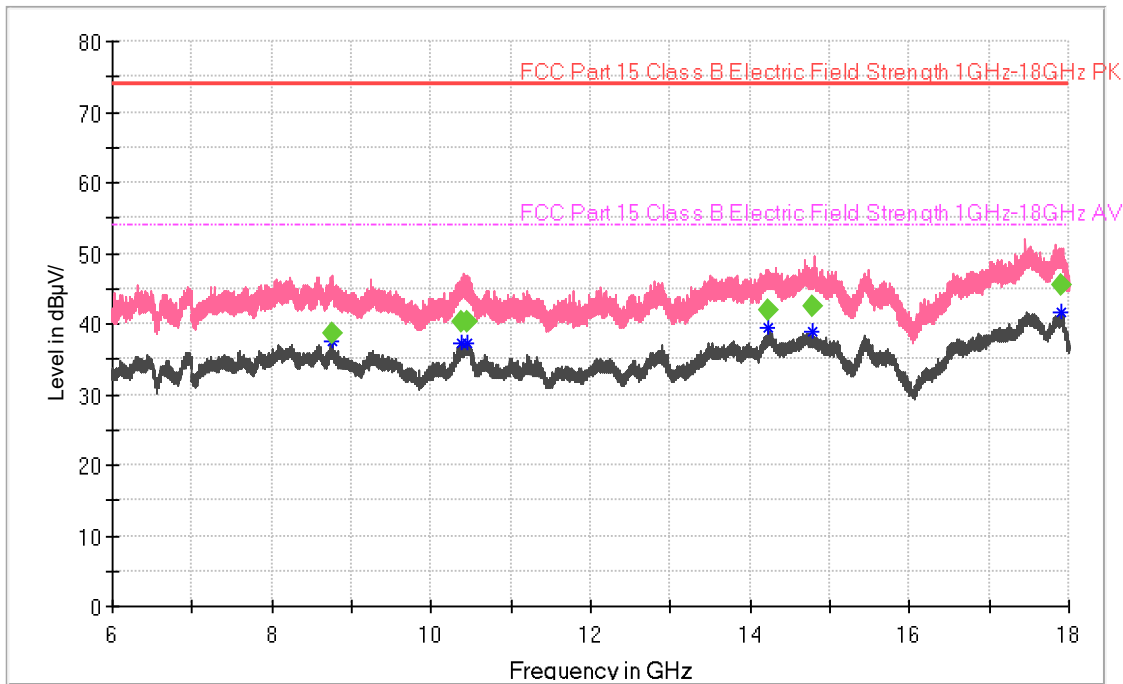
Frequency Range: 1GHz -18GHz

CH60

Full Spectrum



Full Spectrum



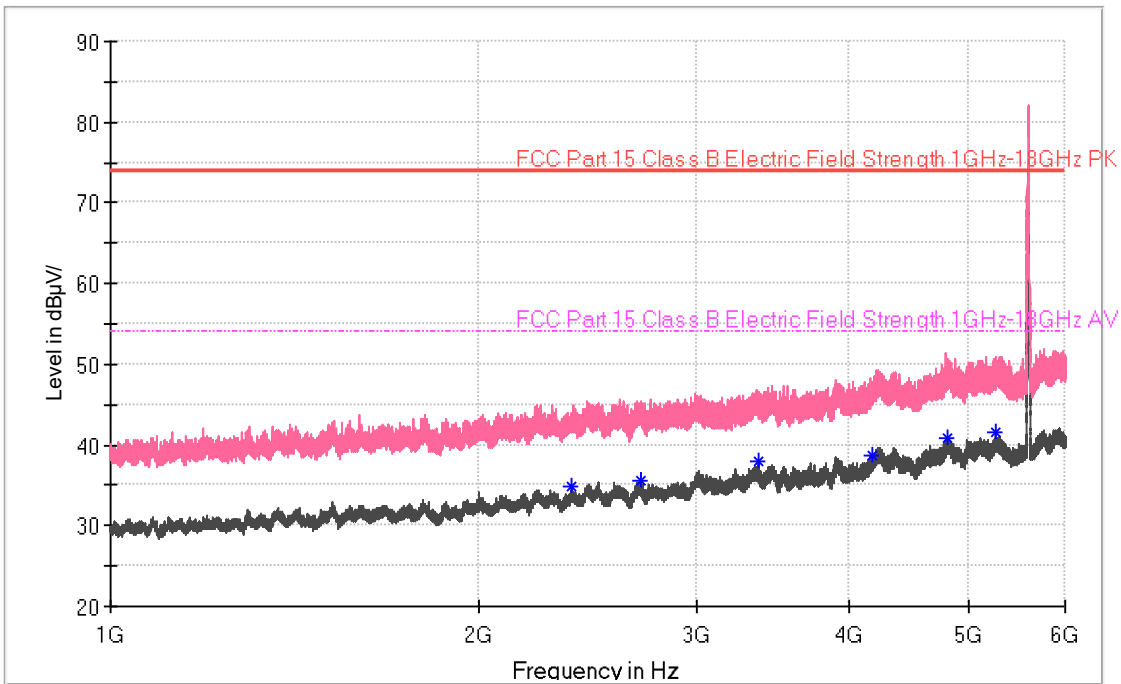
Frequency (MHz)	Reading (dBuV)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Arpl (dB)	Polarity
2446.40	52.99	36.49	54.00	17.51	-16.50	Vertical
2692.70	52.51	36.31	54.00	17.69	-16.20	Vertical
3468.50	53.06	38.36	54.00	15.64	-14.70	Vertical
3914.20	53.85	39.55	54.00	14.45	-14.30	Vertical
4820.70	53.12	41.42	54.00	12.58	-11.70	Vertical
5897.40	54.45	43.15	54.00	10.85	-11.30	Vertical

Frequency (MHz)	Reading (dBuV)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Arpl (dB)	Polarity
8759.60	51.90	38.50	54.00	15.50	-13.40	Vertical
10373.60	52.68	40.38	54.00	13.62	-12.30	Vertical
10455.20	52.32	40.22	54.00	13.78	-12.10	Vertical
14224.00	52.92	41.92	54.00	12.08	-11.00	Vertical
14774.00	54.00	42.40	54.00	11.60	-11.60	Vertical
17904.40	53.85	45.55	54.00	8.45	-8.30	Vertical

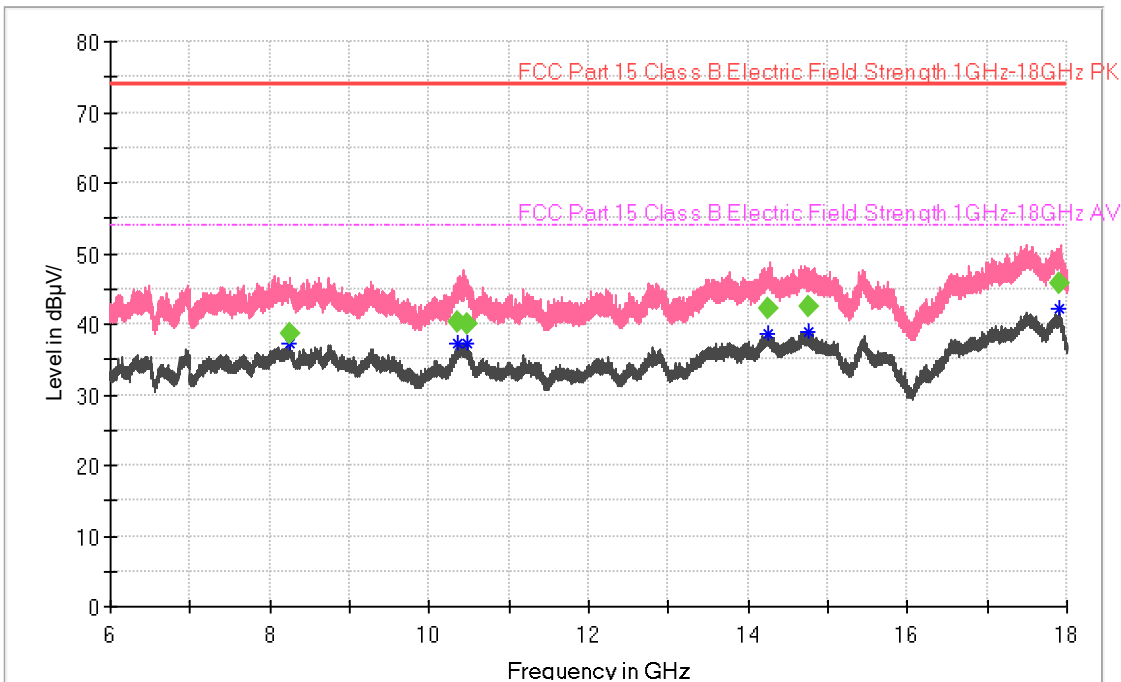
CH120



Full Spectrum



Full Spectrum



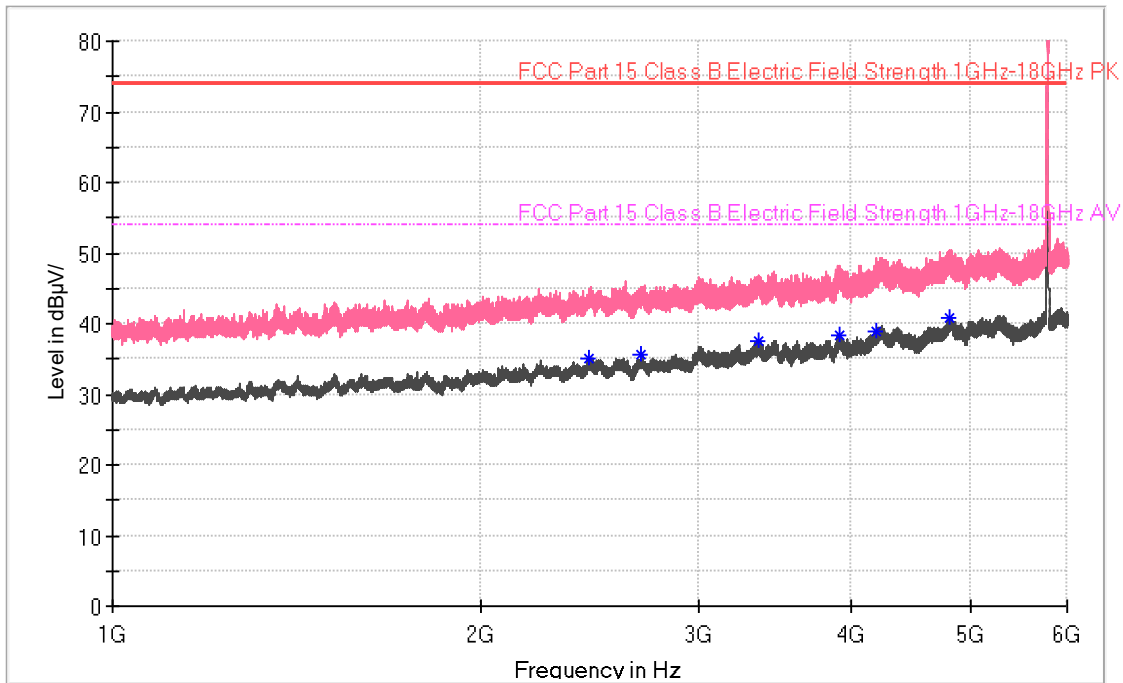
Frequency (MHz)	Reading (dBµV)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Arpl (dB)	Polarity
2379.50	51.86	34.86	54.00	19.14	-17.00	Vertical
2703.60	51.69	35.59	54.00	18.41	-16.10	Vertical
3373.50	52.77	37.87	54.00	16.13	-14.90	Vertical
4182.50	52.57	38.77	54.00	15.23	-13.80	Vertical

4818.10	52.54	40.84	54.00	13.16	-11.70	Vertical
5269.90	53.34	41.64	54.00	12.36	-11.70	Vertical

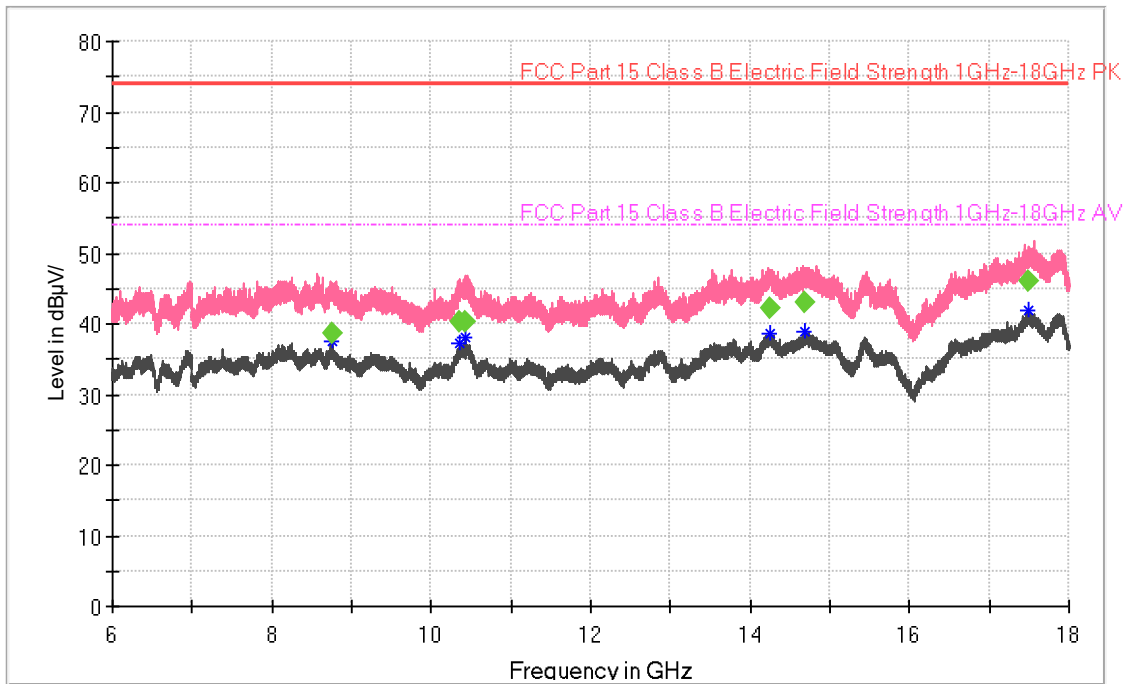
Frequency (MHz)	Reading (dBuV)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Arpl (dB)	Polarity
8247.60	51.93	38.53	54.00	15.47	-13.40	Vertical
10353.60	52.77	40.17	54.00	13.83	-12.60	Vertical
10473.20	52.30	40.10	54.00	13.90	-12.20	Vertical
14258.00	52.78	42.08	54.00	11.92	-10.70	Vertical
14760.40	54.00	42.50	54.00	11.50	-11.50	Vertical
17900.40	53.93	45.63	54.00	8.37	-8.30	Vertical

CH157

Full Spectrum



Full Spectrum

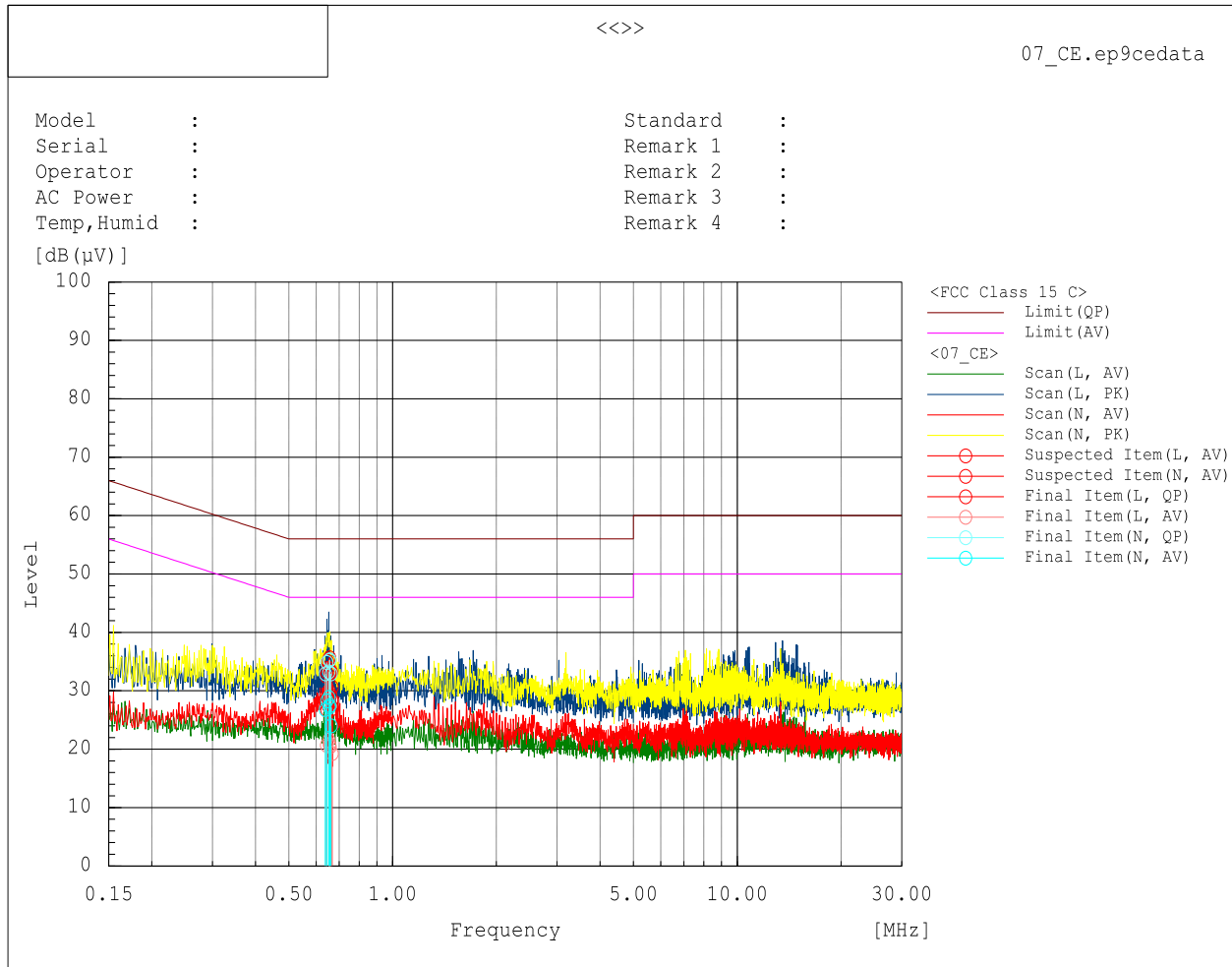


Frequency (MHz)	Reading (dBuV)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Arpl (dB)	Polarity
2446.60	51.53	35.03	54.00	18.97	-16.50	Vertical
2700.50	51.72	35.62	54.00	18.38	-16.10	Vertical
3358.50	52.35	37.65	54.00	16.35	-14.70	Vertical
3915.80	52.74	38.44	54.00	15.56	-14.30	Vertical
4191.00	52.56	38.86	54.00	15.14	-13.70	Vertical
4809.90	52.68	40.88	54.00	13.12	-11.80	Vertical

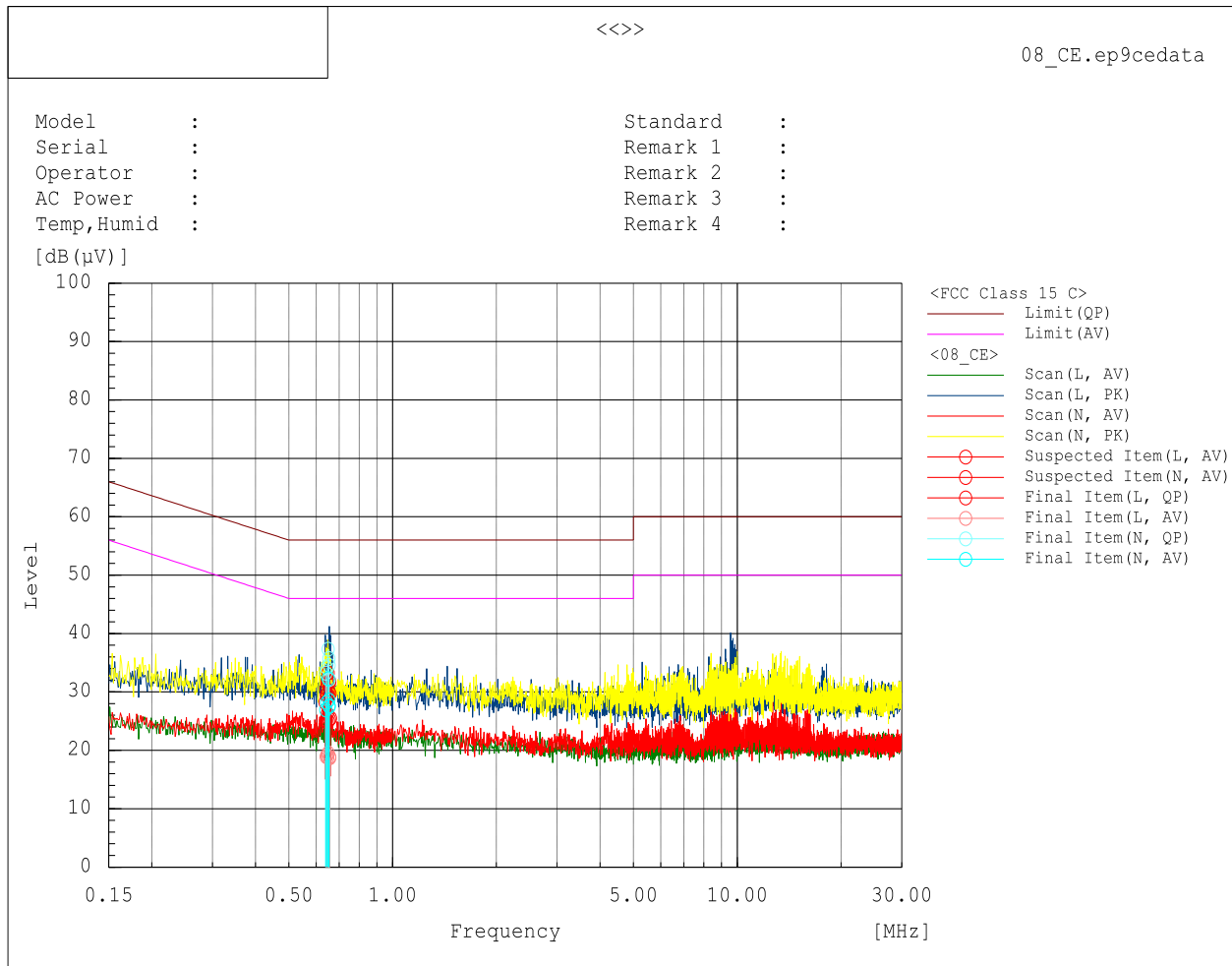
Frequency (MHz)	Reading (dBuV)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Arpl (dB)	Polarity
8754.40	51.83	38.53	54.00	15.47	-13.30	Vertical
10357.20	52.81	40.31	54.00	13.69	-12.50	Vertical
10425.20	52.43	40.23	54.00	13.77	-12.20	Vertical
14238.00	52.90	42.10	54.00	11.90	-10.80	Vertical
14692.00	53.97	42.97	54.00	11.03	-11.00	Vertical
17500.80	54.16	45.96	54.00	8.04	-8.20	Vertical

## AC Power line Conducted Emission

### MEASUREMENT RESULT:



Range	Frequency MHz	Line	Reading			Factor dB	Level			Limit dB(µV)	Limit			Margin			Pass/Fail	Remark
			dB(µV)				dB(µV)				dB(µV)			dB				
			QP	AV	PK		QP	AV	PK		QP	AV	PK	QP	AV	PK		
Band1	0.64	L	13.4	0.8		19.9	33.3	20.7		56	46		22.7	25.3		Pass		
Band1	0.65	L	15.5	1.7		19.9	35.4	21.6		56	46		20.6	24.4		Pass		
Band1	0.66	L	13.8	1		19.9	33.7	20.9		56	46		22.3	25.1		Pass		
Band1	0.66	L	13.5	0.8		19.9	33.4	20.7		56	46		22.6	25.3		Pass		
Band1	0.66	L	13.4	0.5		19.9	33.3	20.4		56	46		22.7	25.6		Pass		
Band1	0.67	L	10.7	-0.6		19.9	30.6	19.3		56	46		25.4	26.7		Pass		
Band1	0.64	N	13	6.9		19.9	32.9	26.8		56	46		23.1	19.2		Pass		
Band1	0.64	N	14.9	8.4		19.9	34.8	28.3		56	46		21.2	17.7		Pass		
Band1	0.65	N	13.3	9		19.9	33.2	28.9		56	46		22.8	17.1		Pass		
Band1	0.66	N	15.4	7.6		19.9	35.3	27.5		56	46		20.7	18.5		Pass		
Band1	0.66	N	15.3	7.3		19.9	35.2	27.2		56	46		20.8	18.8		Pass		
Band1	0.66	N	13	4.1		19.9	32.9	24		56	46		23.1	22		Pass		



Range	Frequency MHz	Line	Reading			Factor dB	Level			Limit			Margin			Pass/Fail	Remark
			dB(μV)				dB(μV)			dB(μV)			dB				
			QP	AV	PK		QP	AV	PK	QP	AV	PK	QP	AV	PK		
Band1	0.64	N	13.3	7		19.9	33.2	26.9		56	46		22.8	19.1		Pass	
Band1	0.64	N	14.3	8.3		19.9	34.2	28.2		56	46		21.8	17.8		Pass	
Band1	0.65	N	17.4	12		19.9	37.3	32.3		56	46		18.7	13.7		Pass	
Band1	0.65	N	15.8	8.7		19.9	35.7	28.6		56	46		20.3	17.4		Pass	
Band1	0.65	N	12.2	7.6		19.9	32.1	27.5		56	46		23.9	18.5		Pass	
Band1	0.65	N	14.7	7.7		19.9	34.6	27.6		56	46		21.4	18.4		Pass	
Band1	0.64	L	10.7	-1		19.9	30.6	18.9		56	46		25.4	27.1		Pass	
Band1	0.65	L	11.6	-0.8		19.9	31.5	19.1		56	46		24.5	26.9		Pass	
Band1	0.65	L	13.4	-0.4		19.9	33.3	19.5		56	46		22.7	26.5		Pass	
Band1	0.65	L	11.9	-1.1		19.9	31.8	18.8		56	46		24.2	27.2		Pass	
Band1	0.66	L	11.9	-1.2		19.9	31.8	18.7		56	46		24.2	27.3		Pass	
Band1	0.66	L	11.8	-1		19.9	31.7	18.9		56	46		24.3	27.1		Pass	

---End of Test Report---