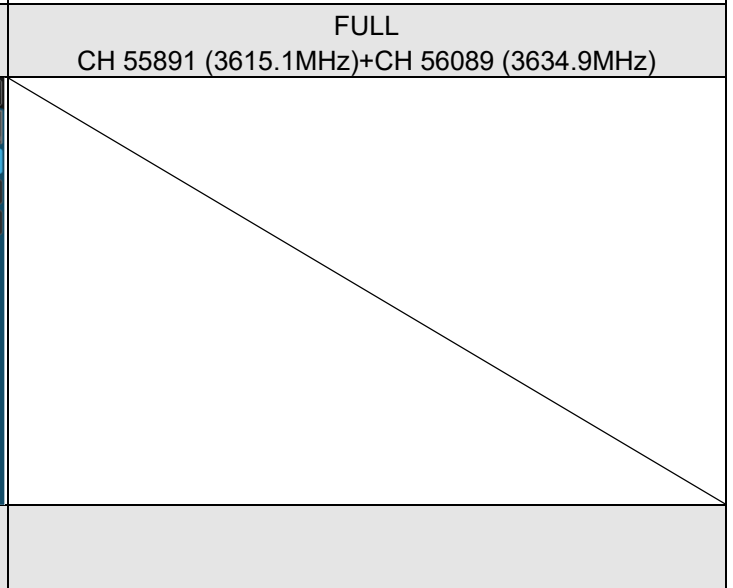
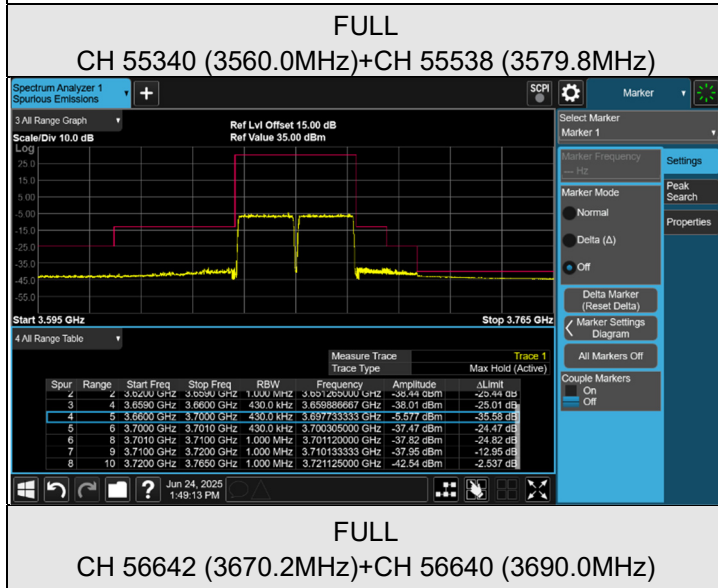
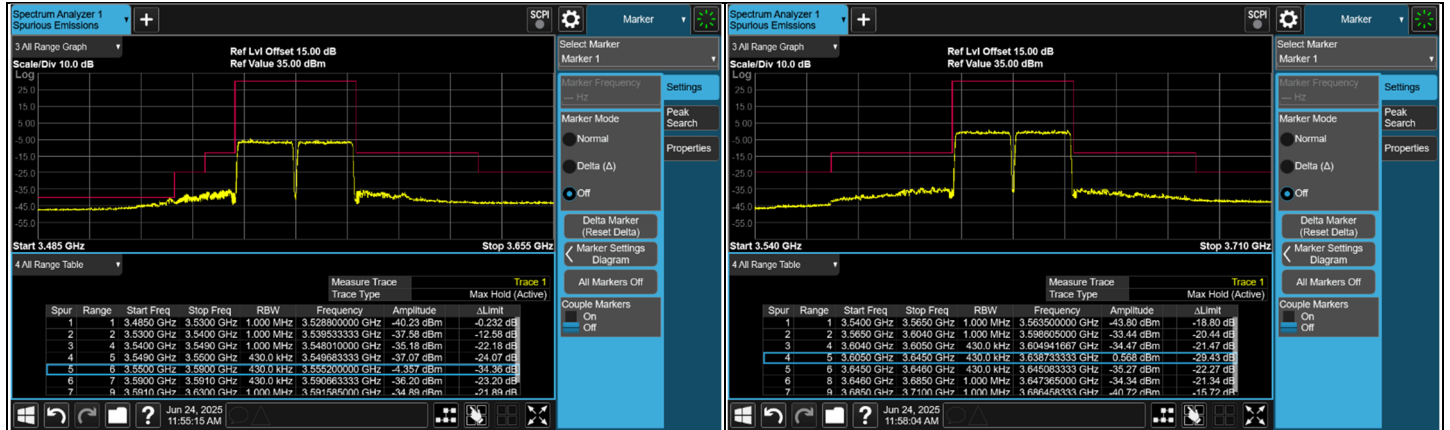
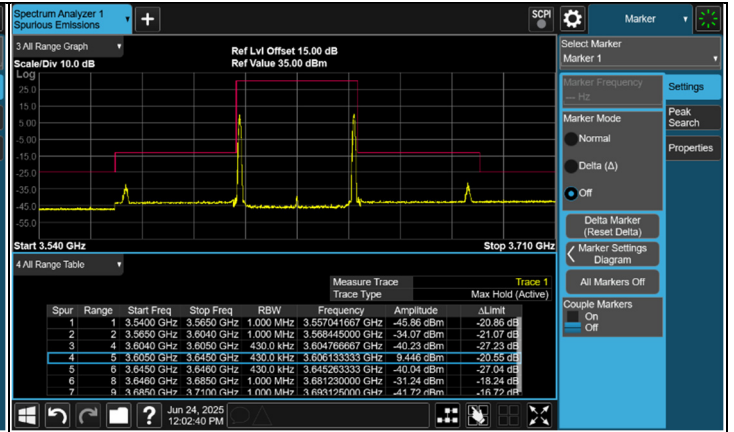
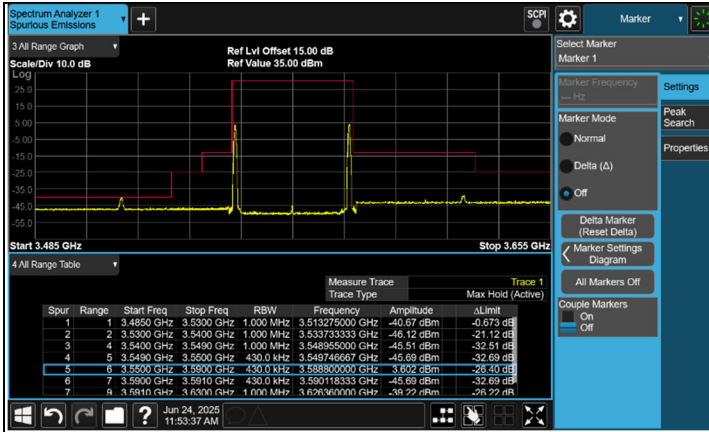


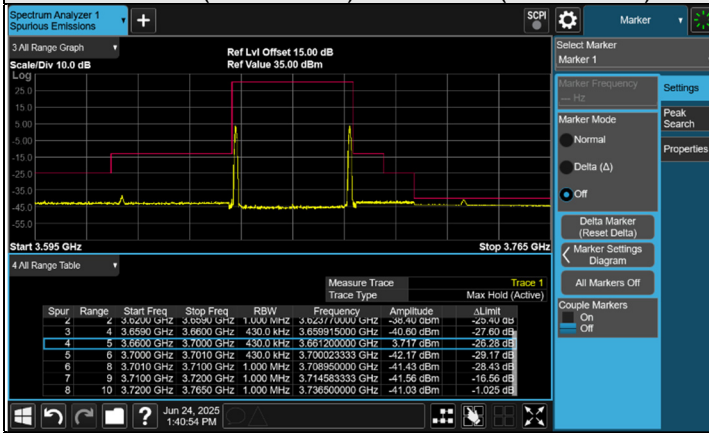
Modulation: 256QAM



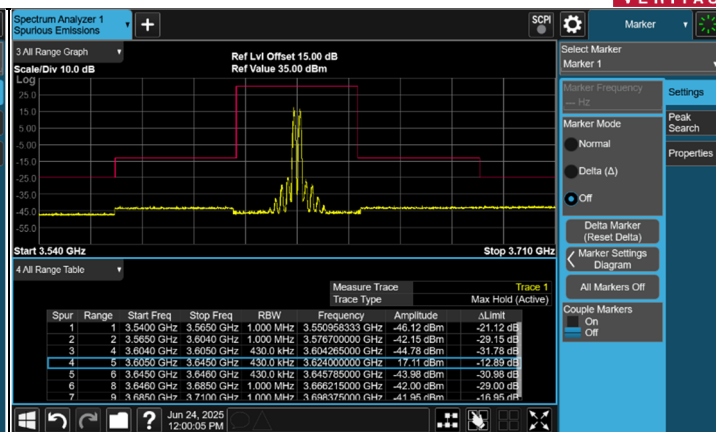
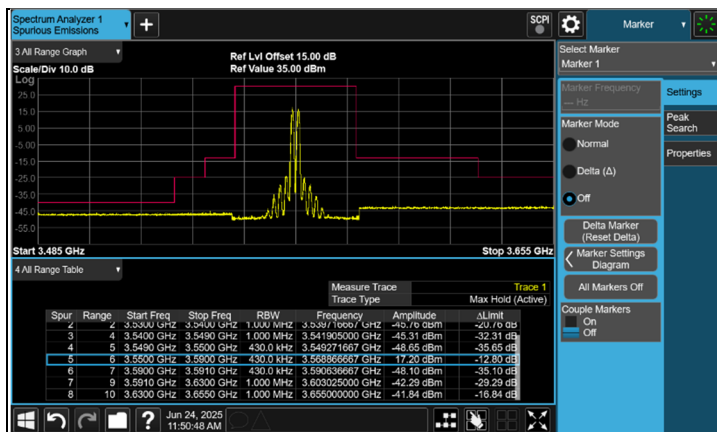


1RB / 0 RB Offset + 1 RB / 99 RB Offset
CH 55340 (3560.0MHz)+CH 55538 (3579.8MHz)

1RB / 0 RB Offset + 1 RB / 99 RB Offset
CH 55891 (3615.1MHz)+CH 56089 (3634.9MHz)

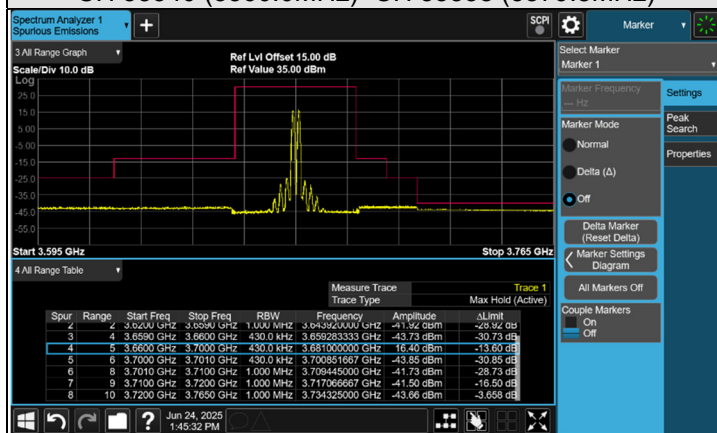


1RB / 0 RB Offset + 1 RB / 99 RB Offset
CH 56642 (3670.2MHz)+CH 56640 (3690.0MHz)

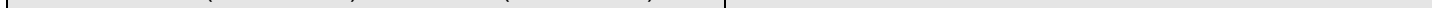


1RB / 99 RB Offset + 1 RB / 0 RB Offset
CH 55340 (3560.0MHz)+CH 55538 (3579.8MHz)

1RB / 99 RB Offset + 1 RB / 0 RB Offset
CH 55891 (3615.1MHz)+CH 56089 (3634.9MHz)



1RB / 99 RB Offset + 1 RB / 0 RB Offset
CH 56642 (3670.2MHz)+CH 56640 (3690.0MHz)



7.5 Radiated Spurious Emissions below 1GHz

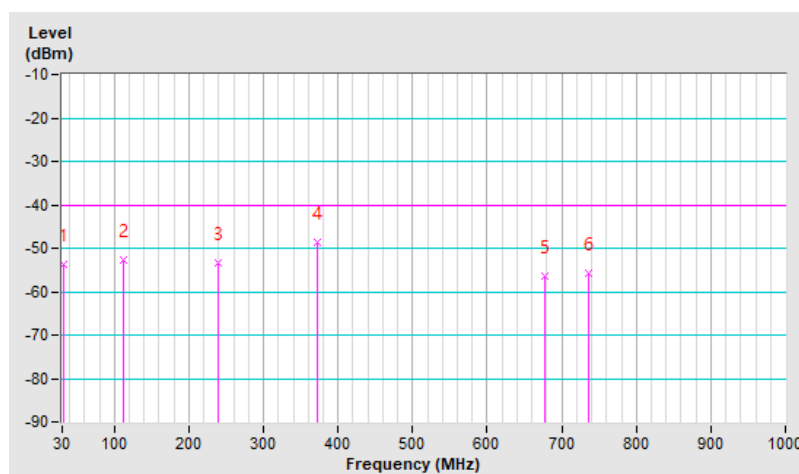
7.5.1 LTE Band 48 (CA 48C)

RF Mode	LTE Band 48 (CA 48C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 55891 (3615.1MHz) + CH 56089 (3634.9MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	-53.66	-40.00	-13.66	1.50 H	103	51.99	-105.65
2	111.48	-52.56	-40.00	-12.56	1.00 H	290	54.29	-106.85
3	239.52	-53.30	-40.00	-13.30	1.00 H	258	51.23	-104.53
4	372.41	-48.79	-40.00	-8.79	1.00 H	146	51.53	-100.32
5	677.96	-56.44	-40.00	-16.44	2.00 H	167	38.21	-94.65
6	735.19	-55.88	-40.00	-15.88	1.50 H	116	37.75	-93.63

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

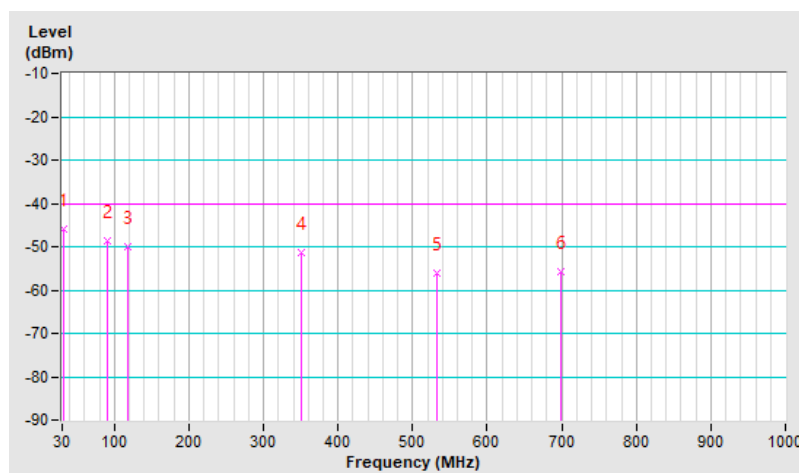


RF Mode	LTE Band 48 (CA 48C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 55891 (3615.1MHz) + CH 56089 (3634.9MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	-45.84	-40.00	-5.84	2.00 V	88	59.81	-105.65
2	90.14	-48.59	-40.00	-8.59	1.00 V	208	60.96	-109.55
3	117.30	-49.93	-40.00	-9.93	1.50 V	303	56.29	-106.22
4	350.10	-51.49	-40.00	-11.49	1.50 V	187	49.41	-100.90
5	533.43	-56.09	-40.00	-16.09	1.00 V	295	41.37	-97.46
6	698.33	-55.84	-40.00	-15.84	1.00 V	107	38.56	-94.40

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



7.6 Radiated Spurious Emissions above 1GHz

7.6.1 LTE Band 48 (CA 48C)

RF Mode	LTE Band 48 (CA 48C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 55340 (3560 MHz) + CH 55538 (3579.8 MHz)
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7120.00	-41.95	-40.00	-1.95	2.42 H	290	43.41	-85.36
2	7159.60	-41.92	-40.00	-1.92	2.49 H	293	43.37	-85.29
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7120.00	-41.65	-40.00	-1.65	3.15 V	252	43.71	-85.36
2	7159.60	-41.63	-40.00	-1.63	3.08 V	258	43.66	-85.29

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 48 (CA 48C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 55891 (3615.1 MHz) + CH 56089 (3634.9 MHz)
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7230.20	-41.58	-40.00	-1.58	2.41 H	300	43.40	-84.98
2	7269.80	-41.77	-40.00	-1.77	2.45 H	305	43.38	-85.15
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7230.20	-41.21	-40.00	-1.21	3.10 V	251	43.77	-84.98
2	7269.80	-41.48	-40.00	-1.48	3.08 V	249	43.67	-85.15

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 48 (CA 48C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 56442 (3670.2 MHz) + CH 56640 (3690 MHz)
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7340.40	-41.34	-40.00	-1.34	2.50 H	297	43.69	-85.03
2	7380.00	-41.11	-40.00	-1.11	2.47 H	299	43.65	-84.76
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7340.40	-41.27	-40.00	-1.27	3.03 V	247	43.76	-85.03
2	7380.00	-40.97	-40.00	-0.97	3.10 V	260	43.79	-84.76

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.7 Frequency Stability

Environmental Conditions:	25°C, 60% RH	Tested By:	Noah Chang
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7.7.1 LTE Band 48 (CA 48C)

Channel Bandwidth: 20 MHz+20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 55891 (3615.1MHz)+CH 56089 (3634.9MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	3615.100001	0.0003	3634.899995	-0.0014
3.80	3615.100004	0.0011	3634.900005	0.0014
4.37	3615.100005	0.0014	3634.899995	-0.0014

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 55891 (3615.1MHz)+CH 56089 (3634.9MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3615.099996	-0.0011	3634.900003	0.0008
-20	3615.099999	-0.0003	3634.899996	-0.0011
-10	3615.100004	0.0011	3634.899997	-0.0008
0	3615.099998	-0.0006	3634.900002	0.0006
10	3615.100002	0.0006	3634.900003	0.0008
20	3615.099997	-0.0008	3634.900001	0.0003
30	3615.099998	-0.0006	3634.900002	0.0006
40	3615.100001	0.0003	3634.900001	0.0003
50	3615.099996	-0.0011	3634.900004	0.0011
60	3615.099998	-0.0006	3634.900002	0.0006
70	3615.100004	0.0011	3634.899997	-0.0008
75	3615.099998	-0.0006	3634.900003	0.0008

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Fax: 886-2-26051924

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Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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