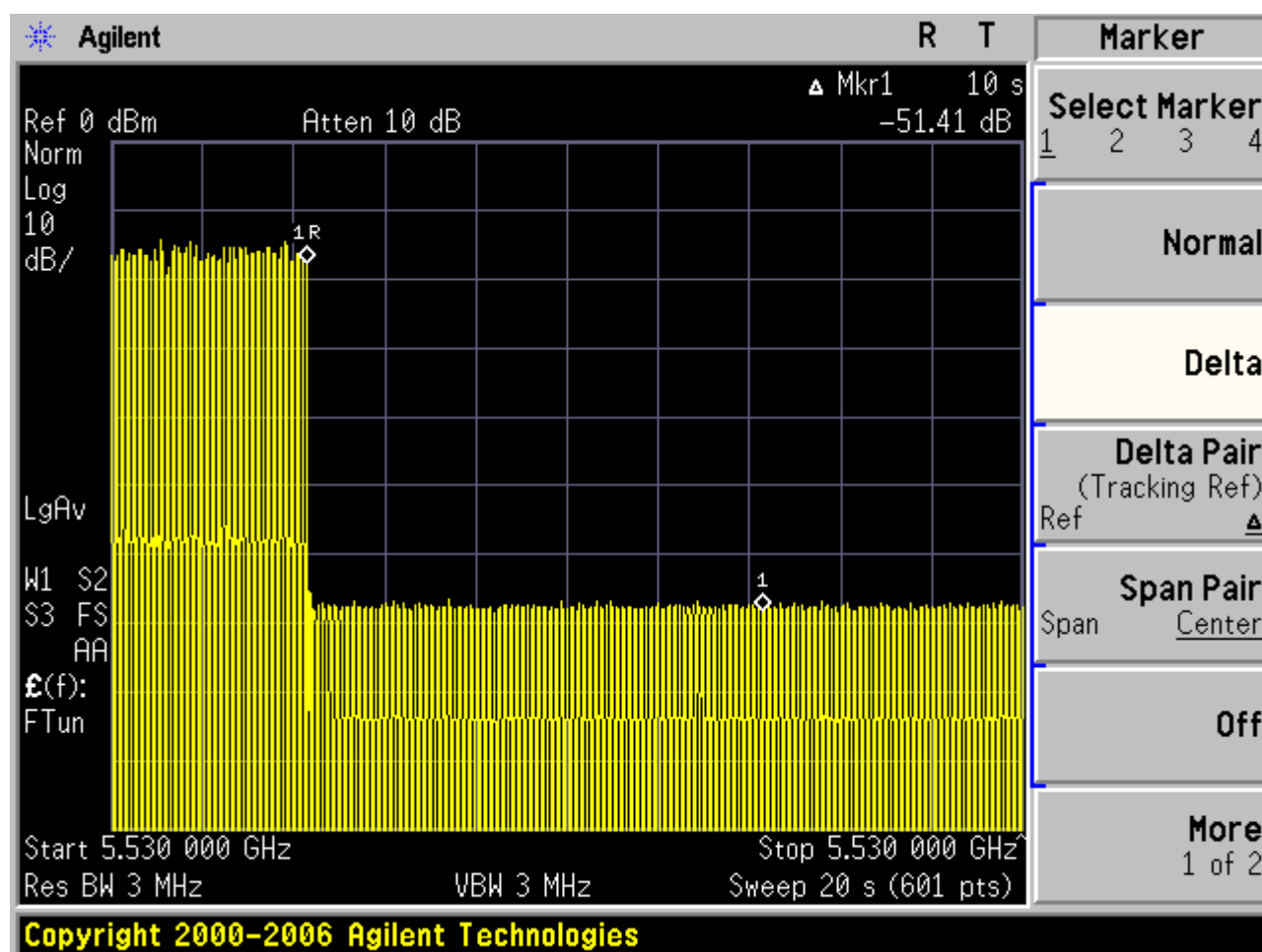


頻率: 5530MHz (802.11ac)



以上測試結果符合規範。

19 電源傳導干擾測試

19.1 適用規範

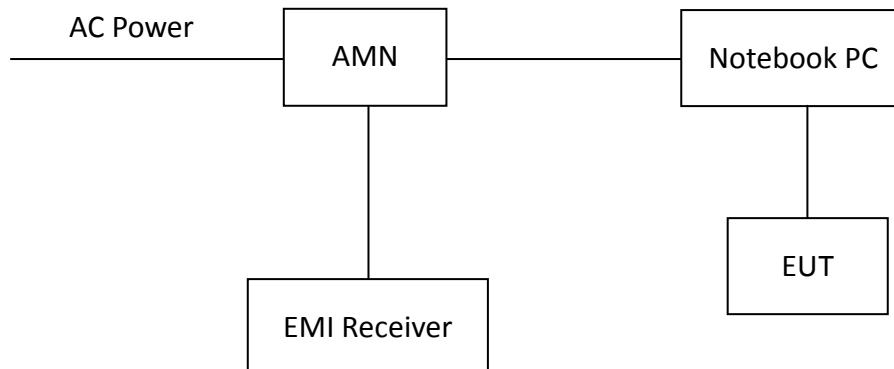
依據國家通訊傳播委員會低功率射頻電機技術規範之 2.3 節，電源傳導干擾之限制要求如下：

頻率(MHz)	傳導限制值(dBuV)	
	準峰值(Quasi-peak)	平均值(Average)
0.15 – 0.5	66 – 56	56 – 46
0.5 – 5	56	46
5 – 30	60	50

19.2 測試方式

待測物置於 80 cm 高的檯面上，將待測物電源線接到模擬網路 (LISN) 上，再從電源模擬網路 (LISN) 接到市電電源，而電源模擬網路 (LISN) 的監測信號端則連接到 EMI 接收機上。其他週邊設備的電源線接至另一具模擬網路上。

19.3 測試配置圖



19.4 測試結果

溫度：23 °C

相對濕度：68 %

大氣壓力：1009 hPa

測試日期：2018/01/23

儀器設定

RBW： 9 kHz

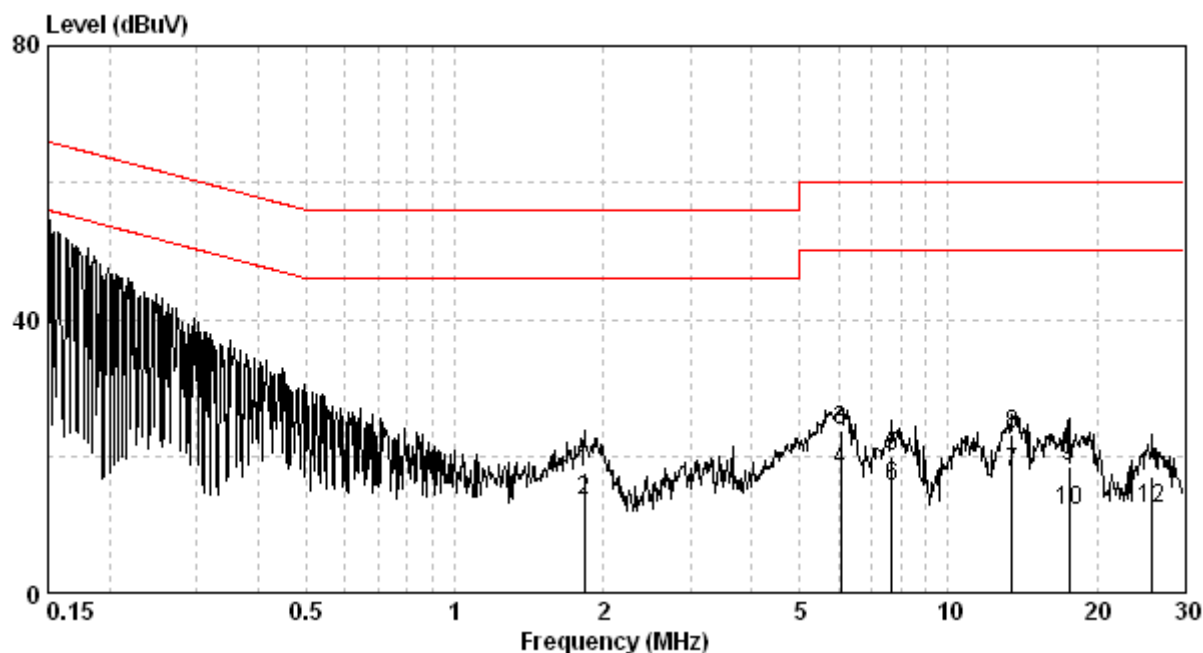
Freq.： 150 kHz ~ 30 MHz

Phase:	Live Line			
Temperature:	20	°C	Model No.:	PT-7687 SC
Relative Humidity:	58	%	Test Date:	Jan. 23, 2018
Atmospheric Pressure:	1009	hPa	Remark:	N/A

Frequency (MHz)	Corr. Factor (dB)	Reading QP (dBuV)	Level QP (dBuV)	Limit QP (dBuV)	Reading AV (dBuV)	Level AV (dBuV)	Limit AV (dBuV)	Margin (dB)	
								QP	AV
1.829	9.50	8.16	17.65	56.00	3.88	13.38	46.00	-38.35	-32.62
6.056	9.56	14.17	23.72	60.00	8.42	17.98	50.00	-36.28	-32.02
7.687	9.57	10.50	20.07	60.00	6.03	15.60	50.00	-39.93	-34.40
13.479	9.57	13.56	23.13	60.00	7.87	17.44	50.00	-36.87	-32.56
17.568	9.57	8.78	18.34	60.00	2.51	12.08	50.00	-41.66	-37.92
25.864	9.51	7.61	17.12	60.00	2.72	12.23	50.00	-42.88	-37.77

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBuV) = Corr. Factor (dB) + Reading (dBuV)
3. Margin (dB) = Level (dBuV) – Limit (dBuV)

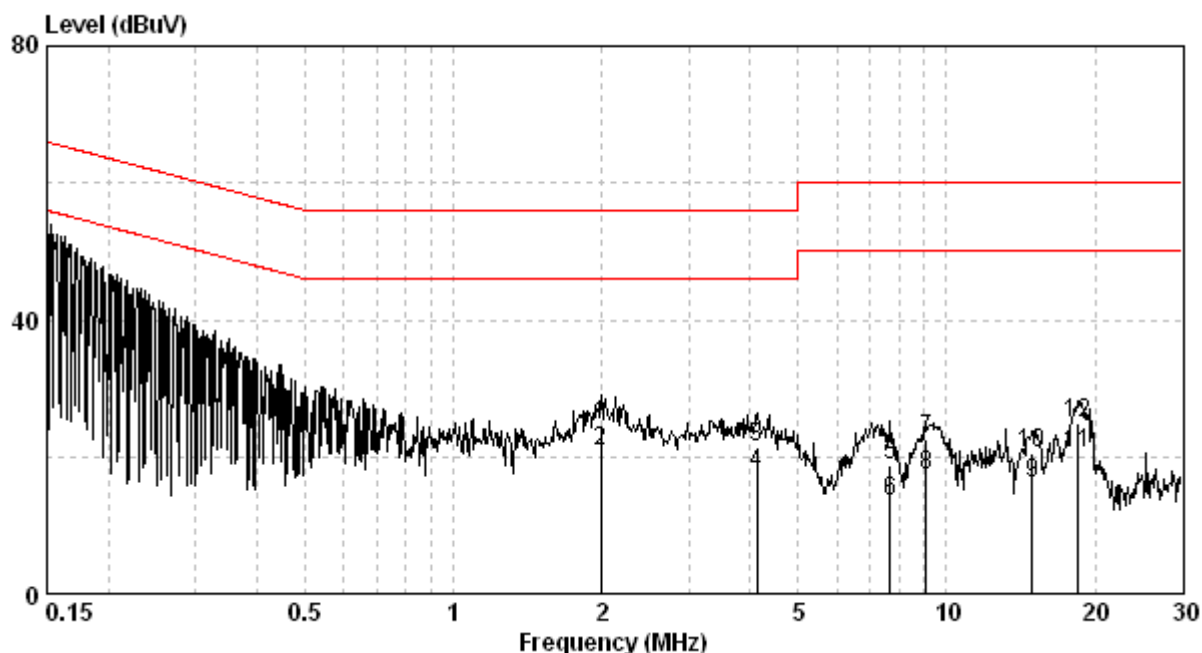


Phase:	Neutral Line			
Temperature:	20	°C	Model No.:	PT-7687 SC
Relative Humidity:	58	%	Test Date:	Jan. 23, 2018
Atmospheric Pressure:	1009	hPa	Remark:	N/A

Frequency (MHz)	Corr. Factor (dB)	Reading QP (dBuV)	Level QP (dBuV)	Limit QP (dBuV)	Reading AV (dBuV)	Level AV (dBuV)	Limit AV (dBuV)	Margin (dB)	
								QP	AV
1.991	9.76	14.99	24.75	56.00	11.16	20.92	46.00	-31.25	-25.08
4.136	9.79	11.73	21.52	56.00	7.81	17.60	46.00	-34.48	-28.40
7.687	9.83	8.94	18.77	60.00	3.55	13.38	50.00	-41.23	-36.62
9.107	9.84	12.74	22.58	60.00	7.47	17.31	50.00	-37.42	-32.69
14.907	9.88	10.72	20.60	60.00	6.09	15.97	50.00	-39.40	-34.03
18.426	9.90	15.13	25.03	60.00	10.66	20.56	50.00	-34.97	-29.44

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBuV) = Corr. Factor (dB) + Reading (dBuV)
3. Margin (dB) = Level (dBuV) – Limit (dBuV)



Appendix A: Test equipment list

Test Equipment/ Test site	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date
ESCI EMI Test Receiver	Rohde & Schwarz	ESCI	100018	2017/11/21	2018/11/20
Spectrum Analyzer	Rohde & Schwarz	FSP30	100245	2017/02/15	2018/02/14
Horn Antenna (1-18G)	SHWARZBECK	BBHA 9120 D	9120D-456	2017/02/18	2018/02/17
Horn Antenna (14-42G)	SHWARZBECK	BBHA 9170	BBHA9170159	2017/09/04	2020/09/02
Broadband Antenna	SHWARZBECK	VULB 9168	9168-172	2017/04/05	2018/04/04
Pre-Amplifier	EMC Co.	EMC12635SE	980205	2017/11/28	2018/11/27
Pre-Amplifier	MITEQ	JS4-26004000--27-8A	828825	2017/08/23	2018/08/22
Power Meter	Anritsu	ML2495A	0844001	2017/10/18	2018/10/17
Power Sensor	Anritsu	MA2411B	0738452	2017/05/23	2018/05/22
Signal Analyzer	Agilent	N9030A	MY51380492	2017/08/29	2018/08/28
966-2(A) Cable 9kHz~26.5GHz	SUHNER	SMA / EX 100	N/A	2017/08/15	2018/08/14
966-2(B) Cable 9kHz~26.5GHz	SUHNER	SUCOFLEX 104P	CB0005	2017/08/15	2018/08/14
RF Cable 9kHz~26.5GHz	SUHNER	SUCOFLEX 102	CB0006	2017/05/04	2018/05/03
966-2_3m Semi-Anechoic Chamber	966_2	CEM-966_2	N/A	2017/03/29	2018/03/28
High Pass Filter	Wainwright	WHKX3.0/18G-12SS	N/A	2017/06/02	2018/06/01
Active Loop Antenna	SCHWARZBECK MESS-ELEKTRON IC	FMZB1519	1519-067	2017/03/30	2018/03/29
High Pass Filter (7~18G)	Reactel	7HS-3G/18G-S11	N/A	2017/06/02	2018/06/01

Test Equipment/ Test site	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date
Spectrum Analyzer	Rohde & Schwarz	20Hz~40GHz	FSEK 30	2018/01/30	2019/01/29
EMI Test Receiver	Rohde & Schwarz	ESR-7	101232	2018/02/01	2019/01/31
RF Cable	EMCI	EMC102-KM-K M-5500	170224	2017/08/07	2018/08/06
EMI Test Receiver	R&S	ESR7	101822	2017/06/01	2018/05/31
Two-Line V-Network	R&S	ENV216	101160	2017/07/17	2018/07/16
Two-Line -V-Network	R&S	ESH3-Z5	838979/014	2017/09/13	2018/09/12
CON-2 Shielded Room	N/A	N/A	N/A	NCR	NCR
CON-2 Cable	SUHNER	BNC / RG-58	2146637	2017/05/08	2018/05/07
Test software	Audix	e3	4.20040112L	NCR	NCR

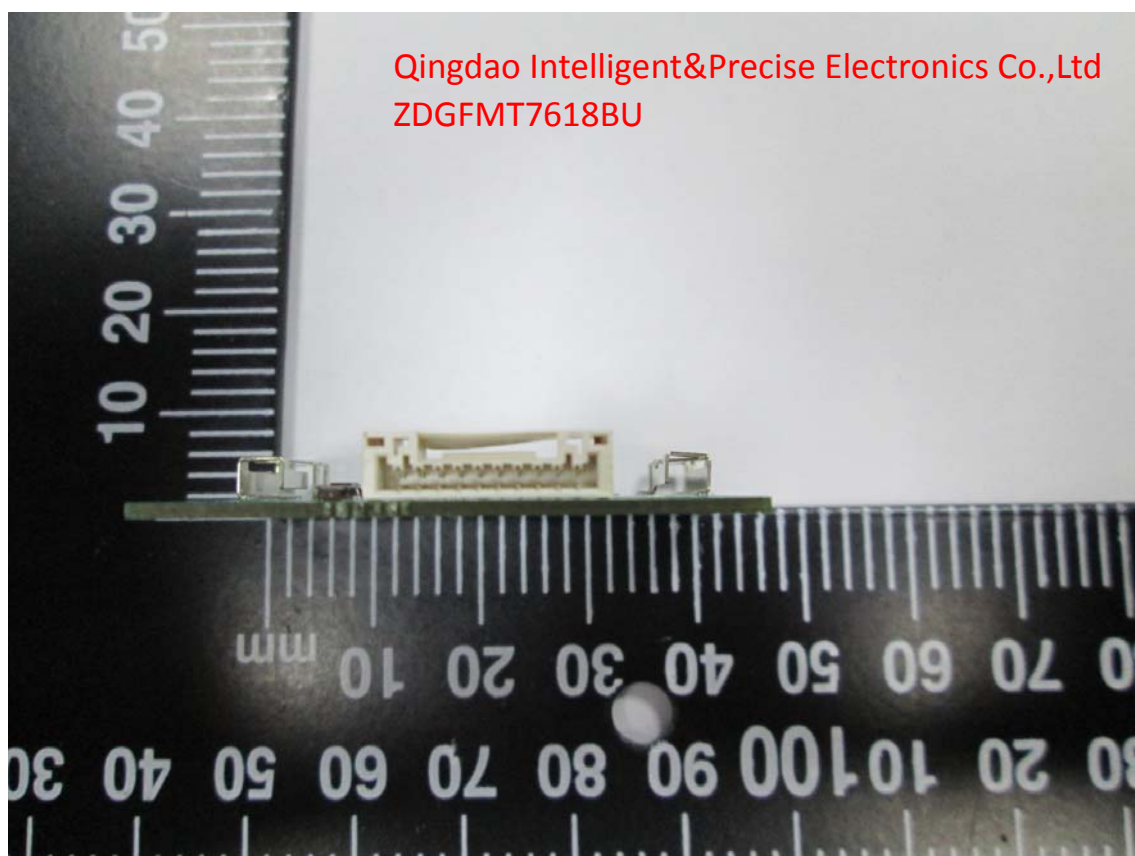
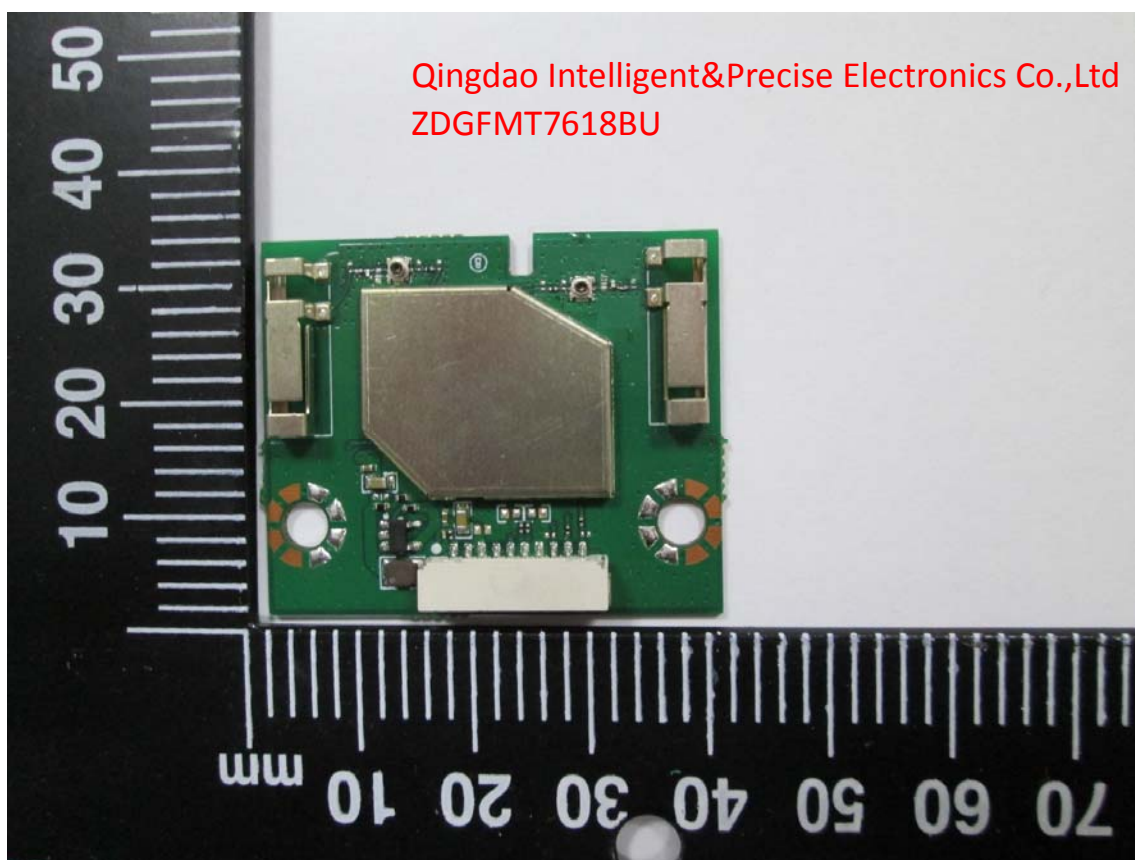
Note: No Calibration Required (NCR).

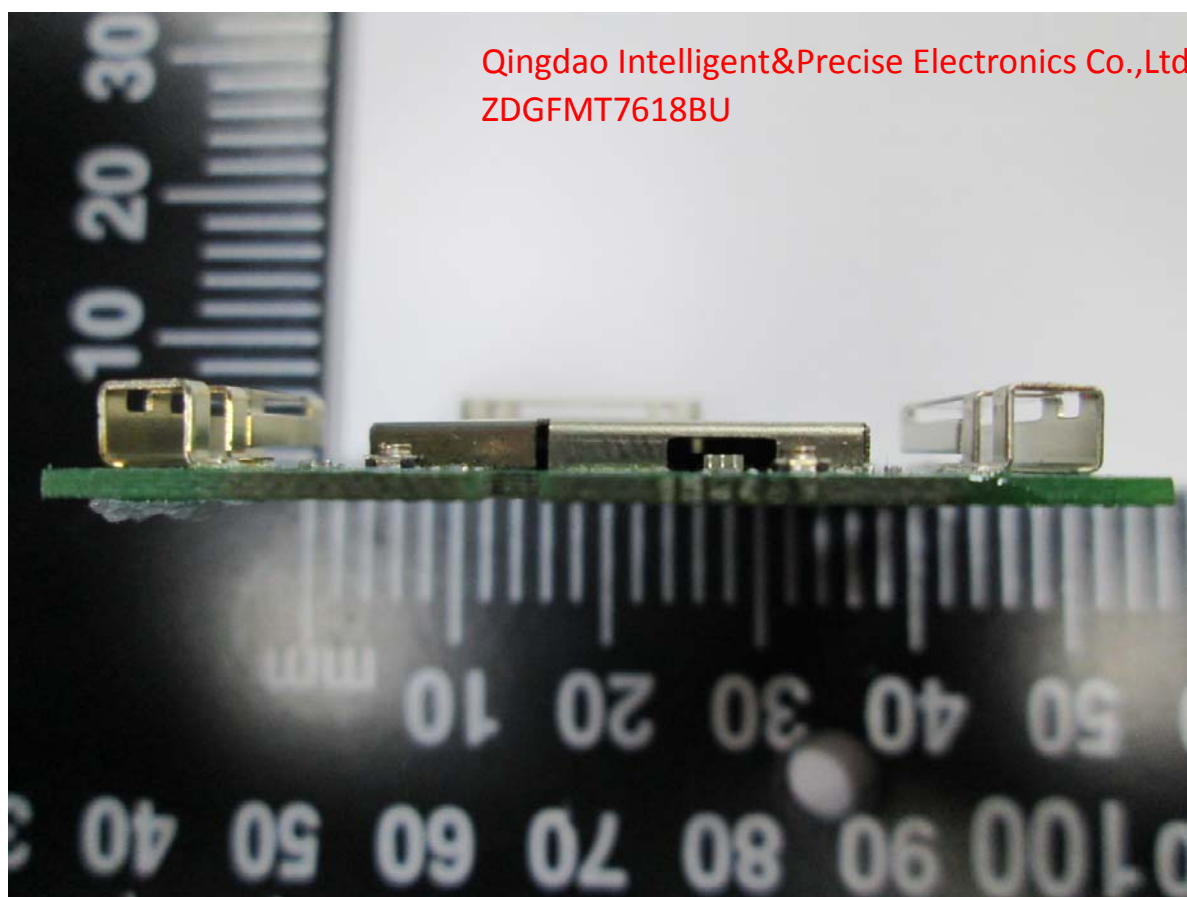
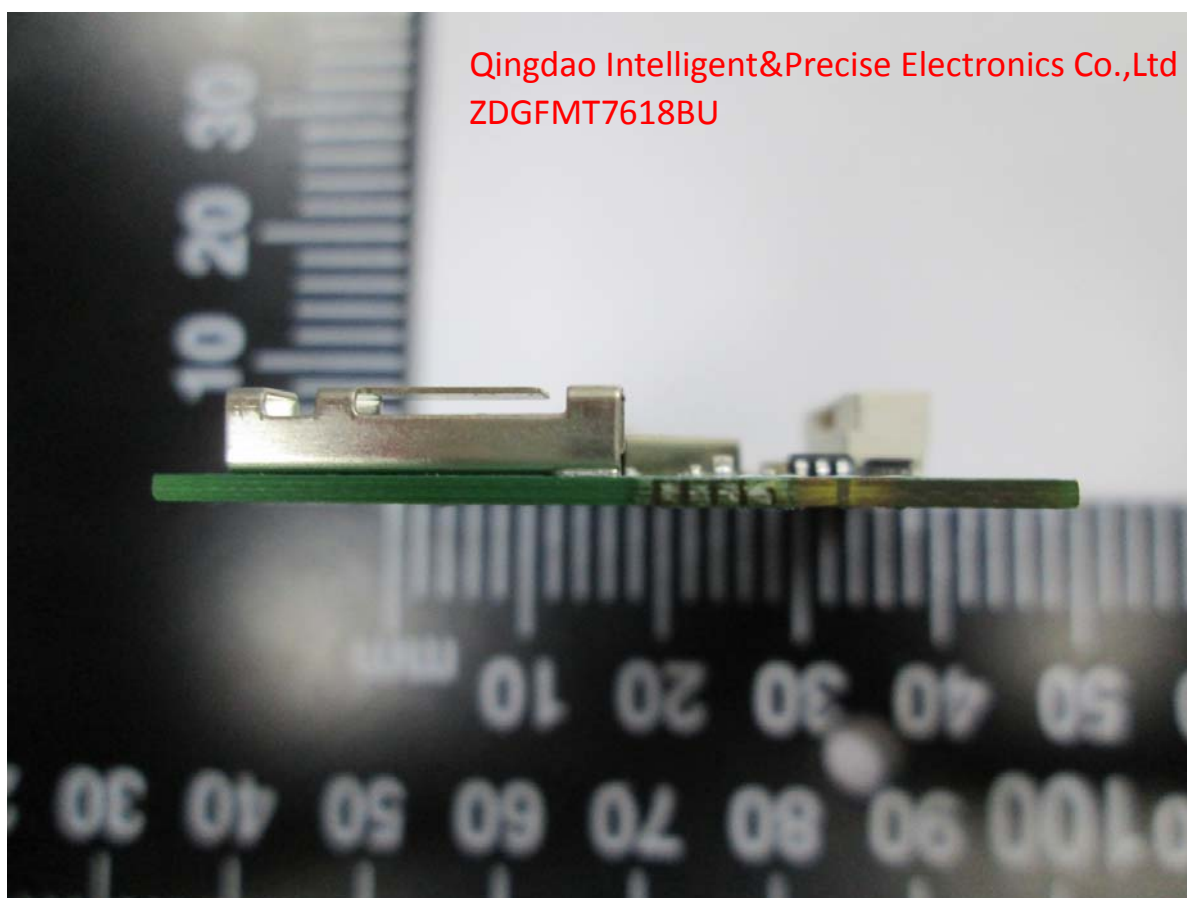
Appendix B: Measurement Uncertainty

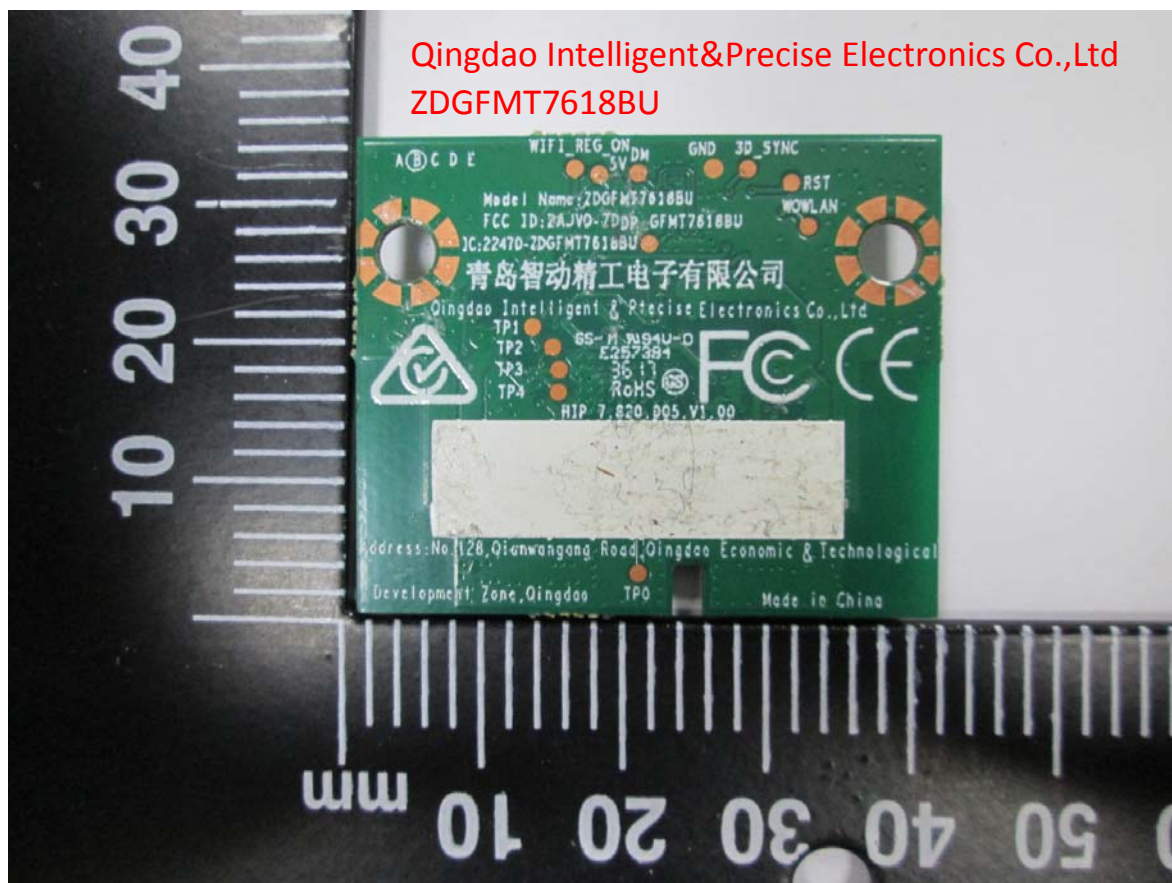
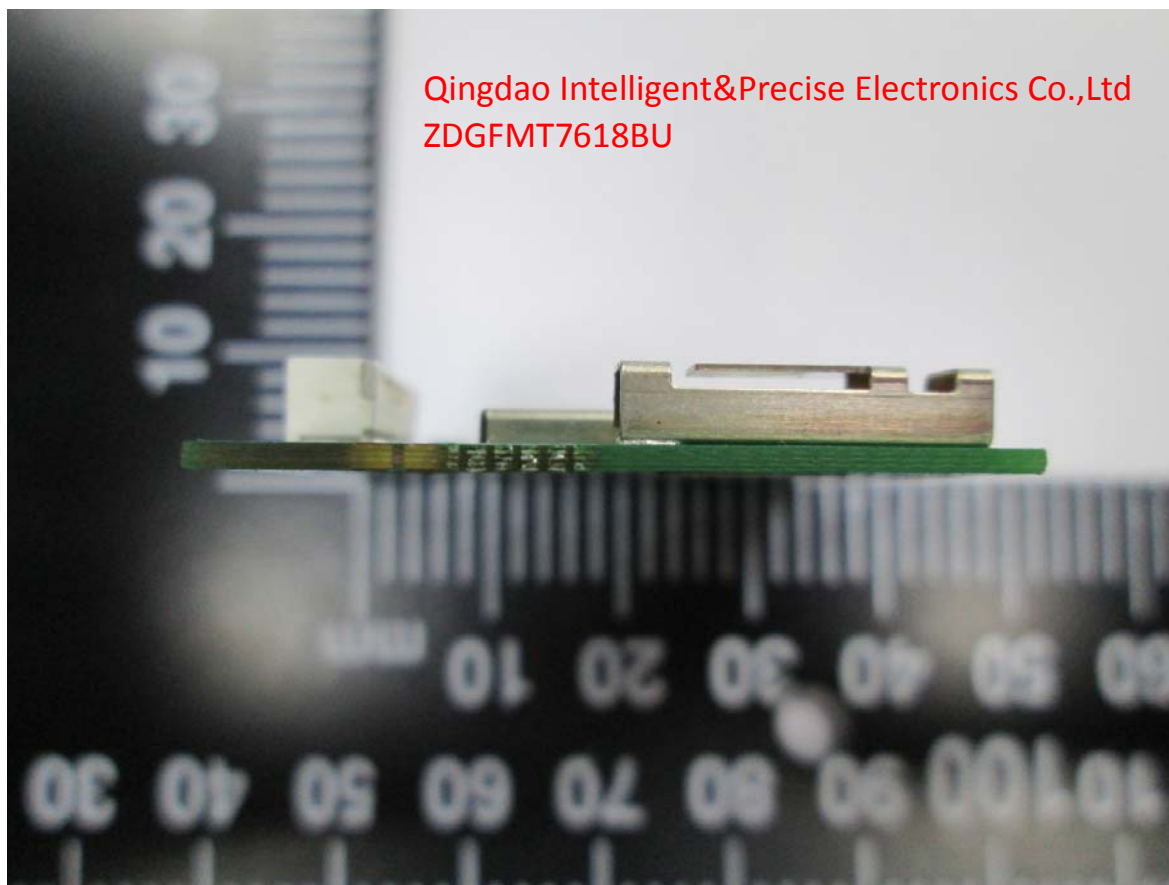
This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of $k=2$.

Item	Uncertainty
Vertically polarized radiated disturbances from 30MHz~1GHz in a semi-anechoic chamber at a distance of 3m	5.14 dB
Horizontally polarized radiated disturbances from 30MHz~1GHz in a semi-anechoic chamber at a distance of 3m	5.22 dB
Vertically polarized Radiated disturbances from 1GHz~18GHz in a semi-anechoic chamber at a distance of 3m	4.29 dB
Horizontally polarized Radiated disturbances from 1GHz~18GHz in a semi-anechoic chamber at a distance of 3m	4.29 dB
Vertically polarized Radiated disturbances from 18GHz~26.5GHz in a semi-anechoic chamber at a distance of 1m	2.45 dB
Horizontally polarized Radiated disturbances from 18GHz~26.5GHz in a semi-anechoic chamber at a distance of 1m	2.45 dB
Vertically polarized Radiated disturbances from 26.5GHz~40GHz in a semi-anechoic chamber at a distance of 1m	2.44 dB
Horizontally polarized Radiated disturbances from 26.5GHz~40GHz in a semi-anechoic chamber at a distance of 1m	2.44 dB
Radiated disturbances from 9kHz~30MHz in a semi-anechoic chamber at a distance of 3m	3.54 dB
Emission on the Band Edge Test	4.29 dB
Minimum Emission Bandwidth	7.69 %
Maximum Peak Conducted Output Power	0.37 dB
Maximum Conducted Output Power	1.15 dB
Power Spectral Density	1.15 dB
AC Power Line Conducted Emission	2.48 dB

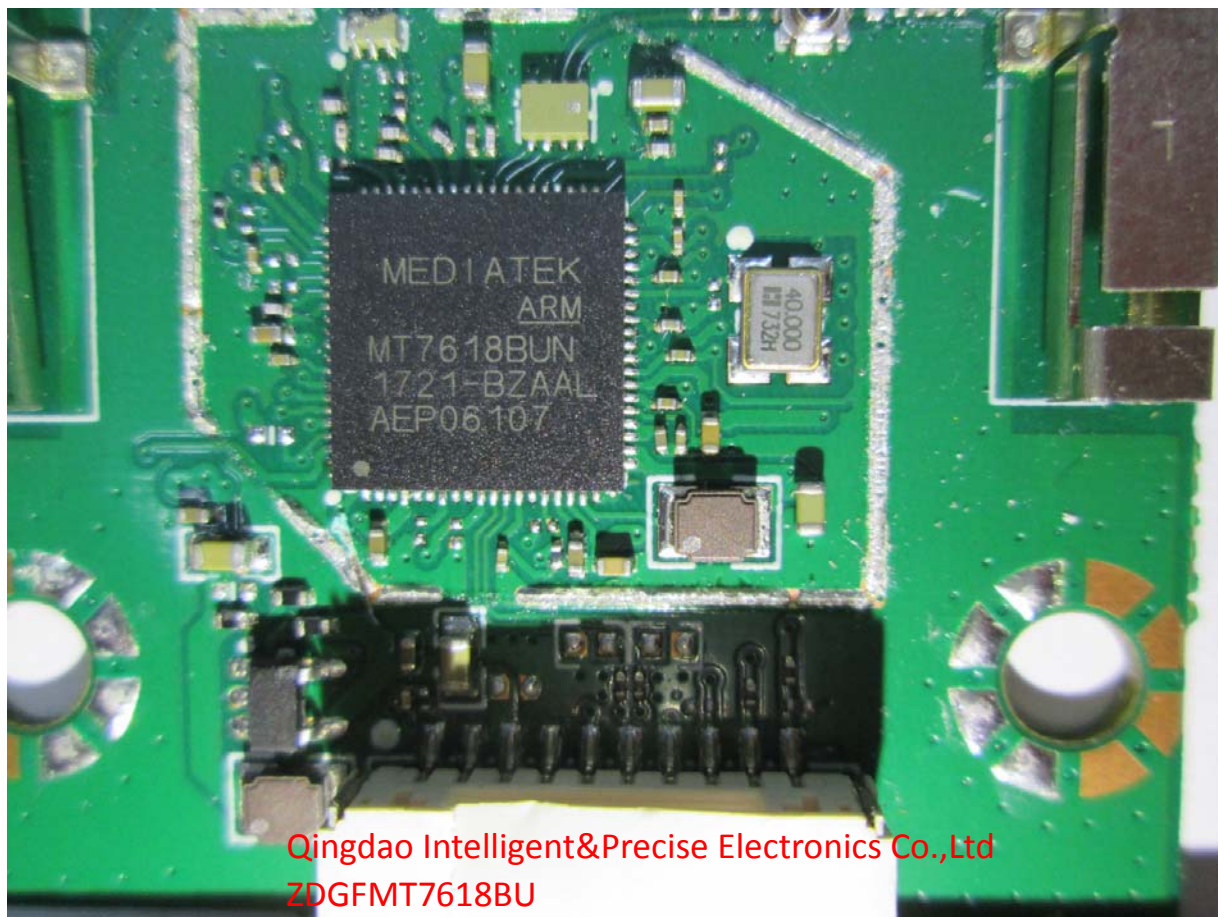
Appendix C1 : 產品外觀照







Appendix C2 : 產品內部照

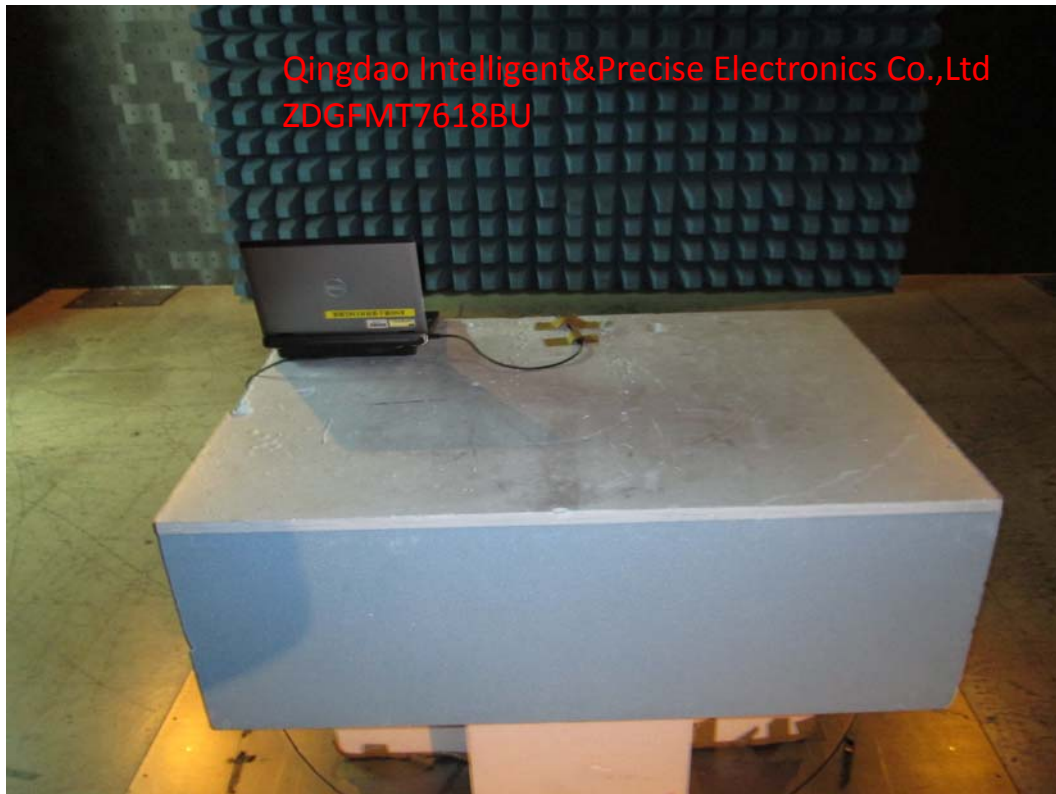


Appendix D1 : 傳導干擾測試架構圖

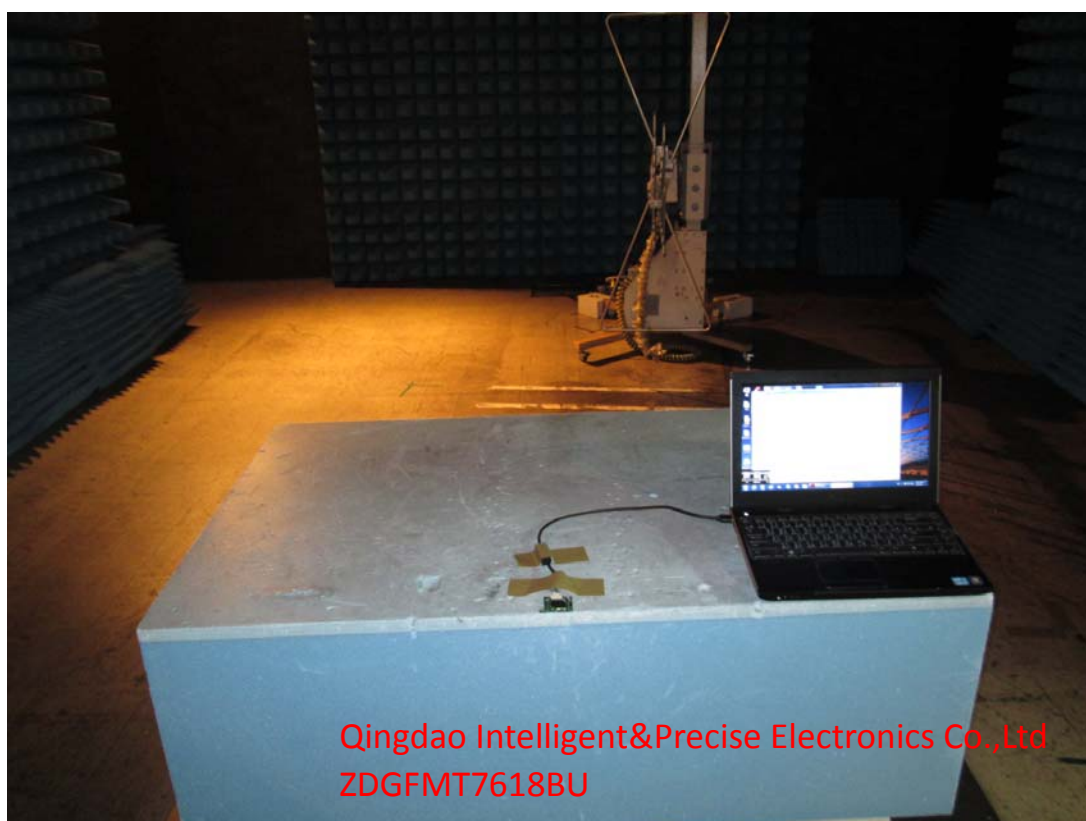


Appendix D2 : 輻射場強干擾測試架構圖

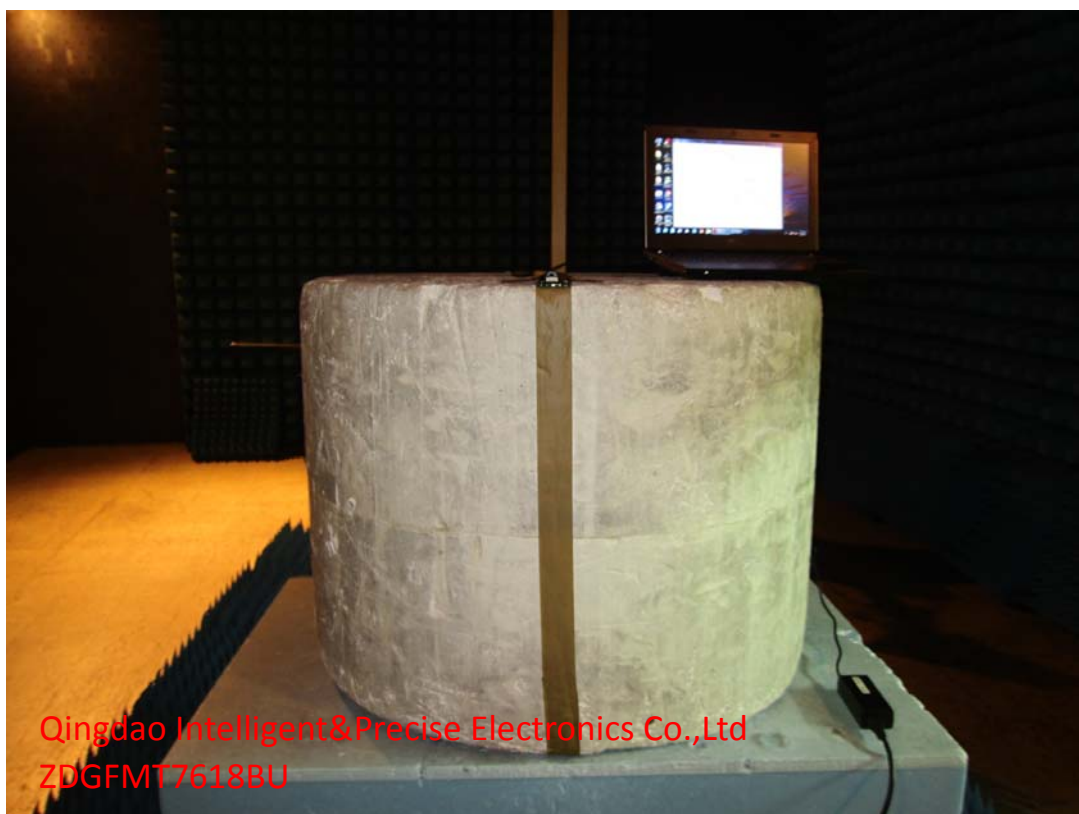
9 kHz-30 MHz



30 MHz – 1 GHz



Above 1 GHz



Appendix D3 : DFS 測試架構圖

