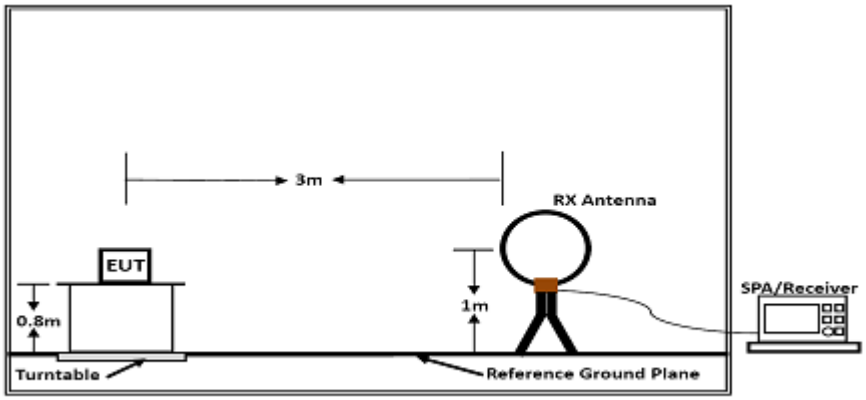
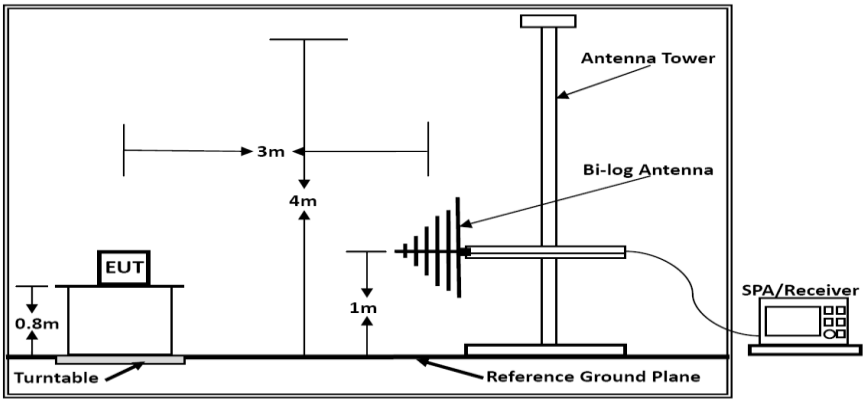
5. FIELD STRENGTH OF FUNDAMENTAL EMISSIONS AND MASK MEASUREMENT

5.1. Block Diagram of Test Setup



Below 30MHz



Below 1GHz

5.2. Field strength of fundamental emissions limit and Mask limit

The field strength of fundamental emissions shall not exceed 15848 microvolts/meter at 30 meters. The emissions limit in this paragraph is based on measurement instrumentation employing a QP detector.

Frequencies (MHz)	Field Strength (microvolts/meter)	Field Strength (dBμV/m) at 10m	Field Strength (dBμV/m) at 3m
13.553 ~ 13.567MHz	15848 at 30m	103.08 (QP)	124 (QP)

Mask Limit:

Frequency (MHz)	Limit (dBuV/m)	Distance (m)
1.705-13.110	69.5	3
13.110-13.410	80.5	3
13.410-13.553	90.5	3
13.553-13.567	124.0	3
13.567-13.710	90.5	3
13.710-14.010	80.5	3
14.010-30.000	69.5	3

5.3. Test Results

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Lushan Kong	Configurations	NFC

PASS.

The test data please refer to following page:

Version A(Adapter: ADS-65HI-19A-124036F, NFC antenna Model:DS2-52):

	Freq.(MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin dB	Remark
1	13.24	30.94	20.18	51.12	80.50	29.38	QP
2	13.45	32.92	20.18	53.10	90.50	37.40	QP
3	13.56	42.34	20.18	62.52	124.00	61.48	QP
4	13.54	25.60	20.18	45.78	90.50	44.72	QP
5	13.68	32.81	20.18	52.99	90.50	37.51	QP
6	14.70	27.89	21.18	49.07	81.50	32.43	QP

Version B(Adapter: ADS-65HI-19A-124036F, NFC antenna Model:DS2-52):

	Freq.(MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin dB	Remark
1	13.22	30.17	20.18	50.35	80.50	30.15	QP
2	13.40	32.14	20.18	52.32	90.50	38.18	QP
3	13.56	40.01	20.18	60.19	124.00	63.81	QP
4	13.55	32.12	20.18	52.30	90.50	38.20	QP
5	13.64	28.59	20.18	48.77	90.50	41.73	QP
6	14.72	31.47	21.18	52.65	81.50	28.85	QP

Version C(Adapter: ADS-65HI-19A-124036F, NFC antenna Model:DS2-52):

	Freq.(MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin dB	Remark
1	13.22	34.96	20.18	55.14	80.50	25.36	QP
2	13.48	31.66	20.18	51.84	90.50	38.66	QP
3	13.56	39.54	20.18	59.72	124.00	64.28	QP
4	13.54	33.08	20.18	53.26	90.50	37.24	QP
5	13.59	33.64	20.18	53.82	90.50	36.68	QP
6	14.67	36.95	21.18	58.13	81.50	23.37	QP

Version D(Adapter: ADS-65HI-19A-124036F, NFC antenna Model:DS2-52):

	Freq.(MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin dB	Remark
1	13.19	36.27	20.18	56.45	80.50	24.05	QP
2	13.44	26.46	20.18	46.64	90.50	43.86	QP
3	13.56	42.93	20.18	63.11	124.00	60.89	QP
4	13.55	26.59	20.18	46.77	90.50	43.73	QP
5	13.61	26.51	20.18	46.69	90.50	43.81	QP
6	14.72	36.25	21.18	57.43	81.50	24.07	QP

*Note: Factor= Antenna Factor + Cable Loss

Emission level (dBμV/m) = 20 log Emission level (μV/m).

Measured distance is 3m.

All emissions emit from non-NFC function of digital unintentional emissions. All NFC's spurious emissions are below 20dB of limits.

NOTE: All the modes have been tested and recorded worst mode in the report.

6. BANDWIDTH OF THE OPERATING FREQUENCY

6.1. Standard Applicable

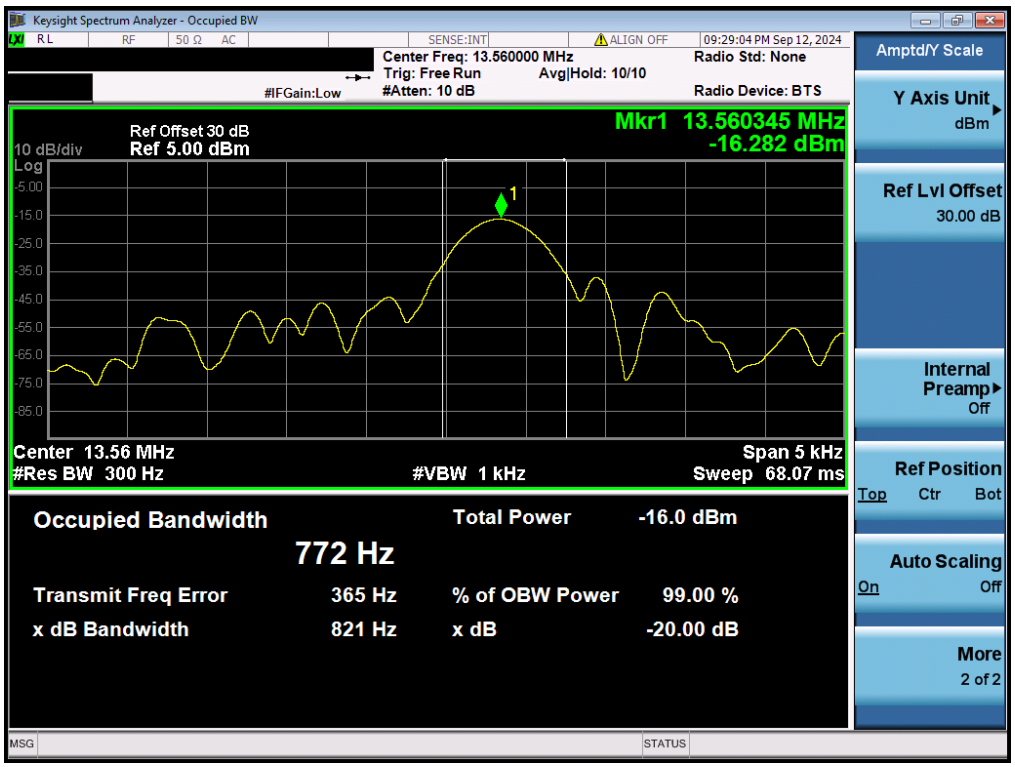
Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band (13.553 ~ 13.567MHz).

6.2. Test Result

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Lushan Kong	Configurations	NFC

Carrier Frequency (MHz)	20dB Bandwidth (KHz)	F_L (MHz)	F_H (MHz)
13.56	0.821	13.5595895	13.5604105

Please refer to the test plot:



7. FREQUENCY STABILITY MEASUREMENT

7.1. Standard Applicable

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a full charged battery.

7.2. Test Result

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Lushan Kong	Configurations	NFC

Voltage vs. Frequency Stability

Voltage(V)	Measurement Frequency (MHz)	Deviation (KHz)	Deviation (ppm)	Limit (ppm)
DC 26.4V	13.560028	0.028	2.04	100
DC 24.0V	13.560031	0.031	2.27	100
DC 21.6V	13.560046	0.046	3.38	100

Temperature vs. Frequency Stability

Temperature (℃)	Measurement Frequency (MHz)	Deviation (KHz)	Deviation (ppm)	Limit (ppm)
-20	13.560091	0.09	6.70	100
-10	13.560718	0.72	52.92	100
0	13.560747	0.75	55.06	100
10	13.560936	0.94	69.02	100
20	13.560137	0.14	10.13	100
30	13.560420	0.42	31.01	100
40	13.560760	0.76	56.08	100
45	13.560456	0.46	33.65	100

8. LINE CONDUCTED EMISSIONS

8.1. Standard Applicable

According to §15.207(a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

* Decreasing linearly with the logarithm of the frequency

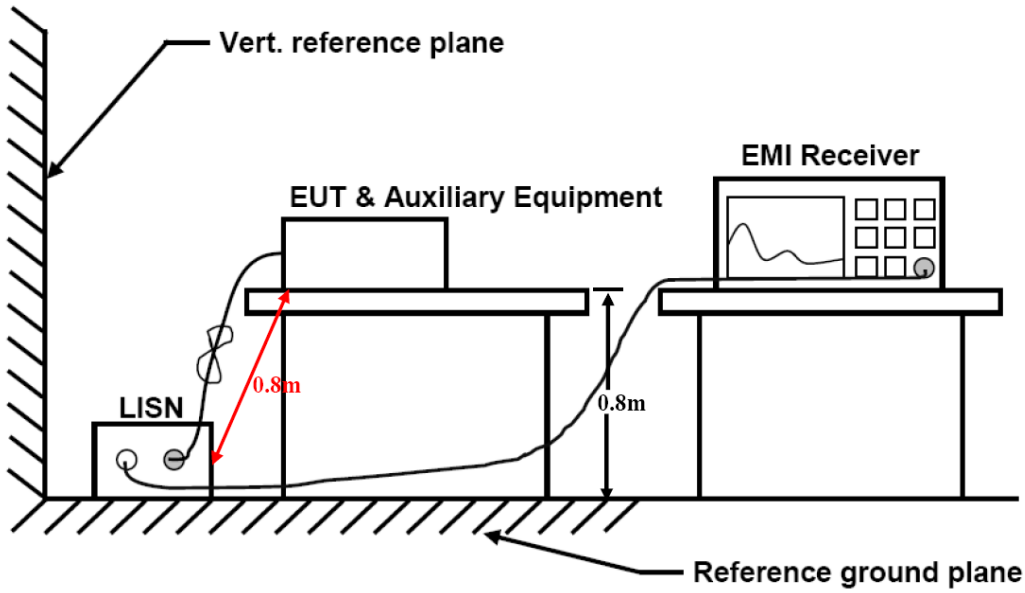
DISTURBANCE Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

CD (dBuV) = RA (dBuV) + PL (dB) + CL (dB)

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

8.2. Block Diagram of Test Setup



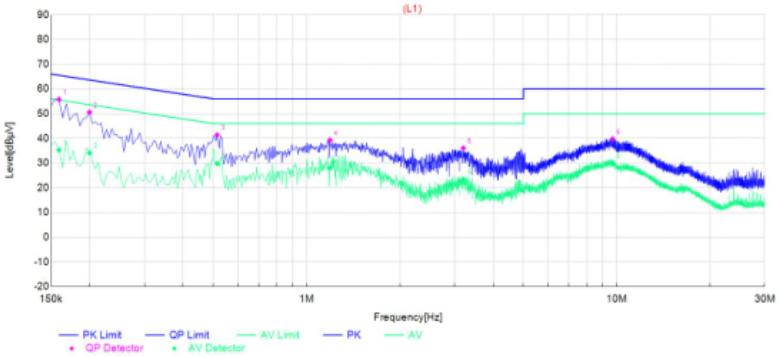
8.3. Test Results

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Lushan Kong	Configurations	NFC

Version A:
Adapter: ADS-65HI-19A-124036F

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

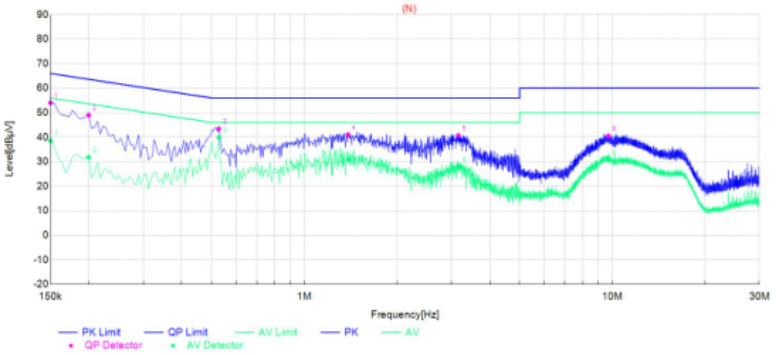
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.159	45.46	24.97	10.31	55.77	35.28	65.52	55.52	9.75	20.24	L1	PASS
2	0.1995	40.41	23.98	10.15	50.56	34.13	63.63	53.63	13.07	19.50	L1	PASS
3	0.5145	31.13	19.57	10.24	41.37	29.81	56.00	46.00	14.63	16.19	L1	PASS
4	1.1895	29.09	17.75	10.21	39.30	27.96	56.00	46.00	16.70	18.04	L1	PASS
5	3.201	25.70	13.06	10.35	36.05	23.41	56.00	46.00	19.95	22.59	L1	PASS
6	9.6945	29.18	19.39	10.57	39.75	29.96	60.00	50.00	20.25	20.04	L1	PASS

Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N

Test Graph



Final Data List

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	43.67	28.16	10.35	54.02	38.51	66.00	56.00	11.98	17.49	N	PASS
2	0.1995	38.83	21.68	10.15	48.98	31.83	63.63	53.63	14.65	21.80	N	PASS
3	0.528	33.19	29.67	10.23	43.42	39.90	56.00	46.00	12.58	6.10	N	PASS
4	1.3875	30.77	20.63	10.23	41.00	30.86	56.00	46.00	15.00	15.14	N	PASS
5	3.165	30.37	17.61	10.34	40.71	27.95	56.00	46.00	15.29	18.05	N	PASS
6	9.708	29.96	19.95	10.57	40.53	30.52	60.00	50.00	19.47	19.48	N	PASS

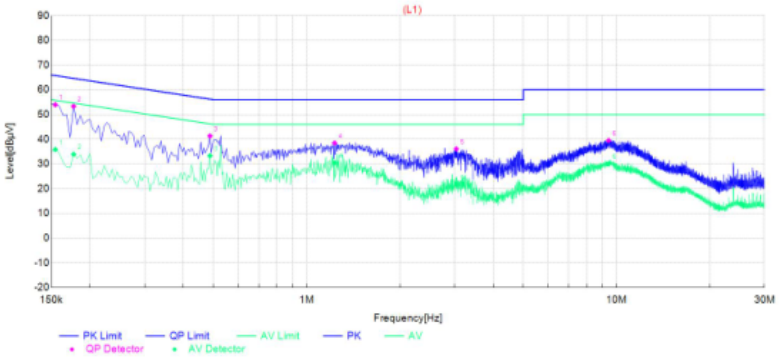
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Adapter: SOY-2400150-332-A

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

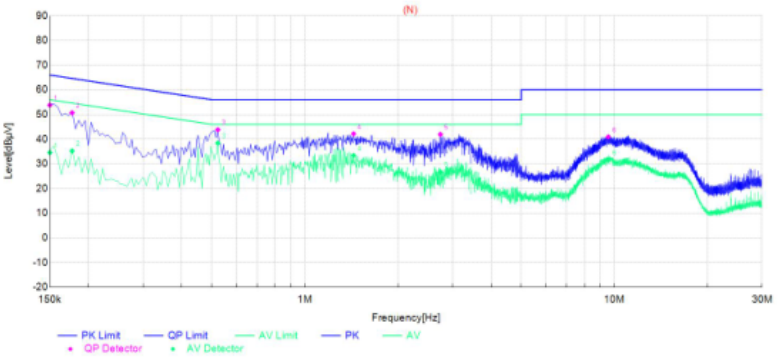
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	43.62	25.50	10.33	53.95	35.83	65.75	55.75	11.80	19.92	L1	PASS
2	0.177	43.09	23.70	10.22	53.31	33.92	64.63	54.63	11.32	20.71	L1	PASS
3	0.4875	31.06	23.06	10.25	41.31	33.31	56.21	46.21	14.90	12.90	L1	PASS
4	1.23	28.25	20.21	10.22	38.47	30.43	56.00	46.00	17.53	15.57	L1	PASS
5	3.039	25.73	11.15	10.34	36.07	21.49	56.00	46.00	19.93	24.51	L1	PASS
6	9.4245	28.93	19.39	10.56	39.49	29.95	60.00	50.00	20.51	20.05	L1	PASS

Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N

Test Graph



Final Data List

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	43.47	24.19	10.35	53.82	34.54	66.00	56.00	12.18	21.46	N	PASS
2	0.177	40.48	25.01	10.22	50.70	35.23	64.63	54.63	13.93	19.40	N	PASS
3	0.5235	33.57	28.15	10.24	43.81	38.39	56.00	46.00	12.19	7.61	N	PASS
4	1.437	31.95	23.17	10.23	42.18	33.40	56.00	46.00	13.82	12.60	N	PASS
5	2.742	31.60	16.36	10.32	41.92	26.68	56.00	46.00	14.08	19.32	N	PASS
6	9.5505	30.33	21.11	10.57	40.90	31.68	60.00	50.00	19.10	18.32	N	PASS

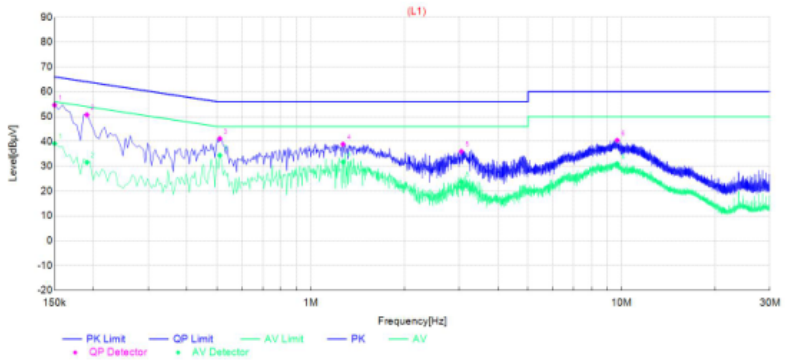
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Adapter: CYZS36-240150

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

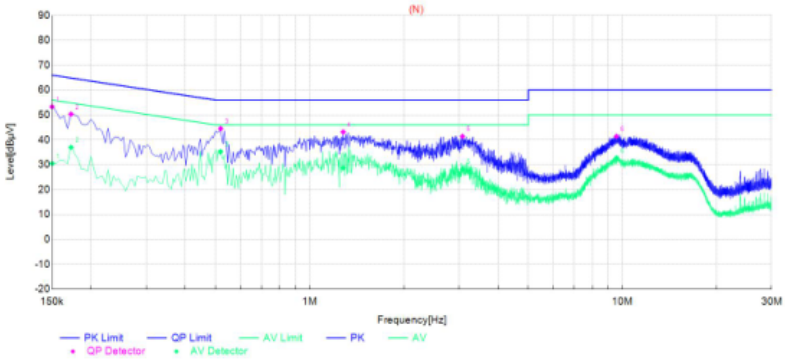
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	44.25	28.80	10.35	54.60	39.15	66.00	56.00	11.40	16.85	L1	PASS
2	0.1905	40.54	21.37	10.16	50.70	31.53	64.01	54.01	13.31	22.48	L1	PASS
3	0.51	30.88	24.14	10.25	41.13	34.39	56.00	46.00	14.87	11.61	L1	PASS
4	1.2705	28.66	21.49	10.22	38.88	31.71	56.00	46.00	17.12	14.29	L1	PASS
5	3.0525	25.59	13.32	10.34	35.93	23.66	56.00	46.00	20.07	22.34	L1	PASS
6	9.681	29.88	20.46	10.57	40.45	31.03	60.00	50.00	19.55	18.97	L1	PASS

Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N

Test Graph



Final Data List

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	42.94	20.13	10.35	53.29	30.48	66.00	56.00	12.71	25.52	N	PASS
2	0.1725	40.10	26.75	10.24	50.34	36.99	64.84	54.84	14.50	17.85	N	PASS
3	0.519	34.29	25.02	10.24	44.53	35.26	56.00	46.00	11.47	10.74	N	PASS
4	1.2795	32.94	18.48	10.22	43.16	28.70	56.00	46.00	12.84	17.30	N	PASS
5	3.0795	31.05	17.95	10.34	41.39	28.29	56.00	46.00	14.61	17.71	N	PASS
6	9.5685	30.81	22.12	10.57	41.38	32.69	60.00	50.00	18.62	17.31	N	PASS

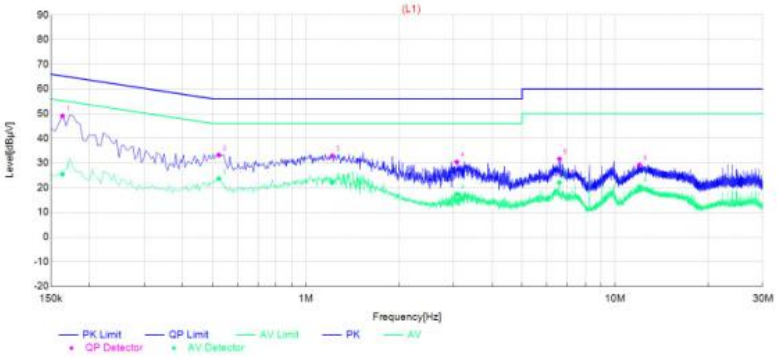
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Version B:
Adapter: ADS-65HI-19A-124036F

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

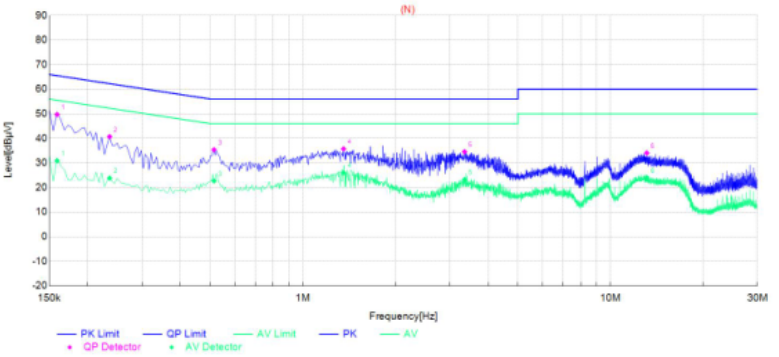
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1635	38.78	15.14	10.29	49.07	25.43	65.28	55.28	16.21	29.85	L1	PASS
2	0.5235	22.96	13.43	10.24	33.20	23.67	56.00	46.00	22.80	22.33	L1	PASS
3	1.2165	22.66	11.80	10.22	32.88	22.02	56.00	46.00	23.12	23.98	L1	PASS
4	3.075	20.07	7.00	10.34	30.41	17.34	56.00	46.00	25.59	28.66	L1	PASS
5	6.603	21.14	11.61	10.50	31.64	22.11	60.00	50.00	28.36	27.89	L1	PASS
6	11.9715	18.36	9.51	10.81	29.17	20.32	60.00	50.00	30.83	29.68	L1	PASS

Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N

Test Graph



Final Data List

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.159	39.41	20.57	10.31	49.72	30.88	65.52	55.52	15.80	24.64	N	PASS
2	0.2355	30.56	13.69	10.13	40.69	23.82	62.25	52.25	21.56	28.43	N	PASS
3	0.5145	25.13	12.42	10.24	35.37	22.66	56.00	46.00	20.63	23.34	N	PASS
4	1.356	25.50	15.83	10.22	35.72	26.05	56.00	46.00	20.28	19.95	N	PASS
5	3.354	24.18	12.83	10.35	34.53	23.18	56.00	46.00	21.47	22.82	N	PASS
6	13.11	23.14	13.12	10.90	34.04	24.02	60.00	50.00	25.96	25.98	N	PASS

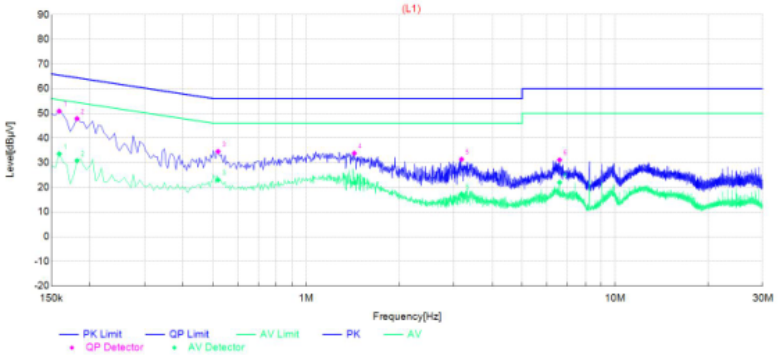
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Adapter: SOY-2400150-332-A

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

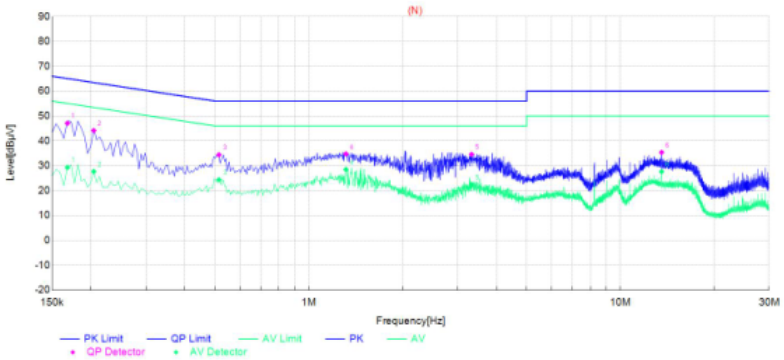
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.159	40.58	23.23	10.31	50.89	33.54	65.52	55.52	14.63	21.98	L1	PASS
2	0.1815	37.67	20.59	10.20	47.87	30.79	64.42	54.42	16.55	23.63	L1	PASS
3	0.519	24.28	12.75	10.24	34.52	22.99	56.00	46.00	21.48	23.01	L1	PASS
4	1.4325	23.56	11.57	10.23	33.79	21.80	56.00	46.00	22.21	24.20	L1	PASS
5	3.183	21.01	6.90	10.35	31.36	17.25	56.00	46.00	24.64	28.75	L1	PASS
6	6.6075	20.60	11.47	10.50	31.10	21.97	60.00	50.00	28.90	28.03	L1	PASS

Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N

Test Graph



Final Data List

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.168	36.82	19.04	10.27	47.09	29.31	65.06	55.06	17.97	25.75	N	PASS
2	0.204	34.00	17.53	10.15	44.15	27.68	63.45	53.45	19.30	25.77	N	PASS
3	0.5145	24.16	14.11	10.24	34.40	24.35	56.00	46.00	21.60	21.65	N	PASS
4	1.3155	24.53	18.28	10.22	34.75	28.50	56.00	46.00	21.25	17.50	N	PASS
5	3.327	24.25	12.09	10.35	34.60	22.44	56.00	46.00	21.40	23.56	N	PASS
6	13.5555	24.47	16.73	10.88	35.35	27.61	60.00	50.00	24.65	22.39	N	PASS

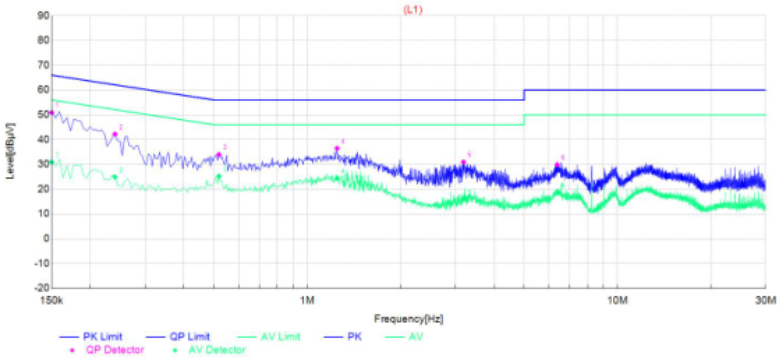
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Adapter: CYZS36-240150

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

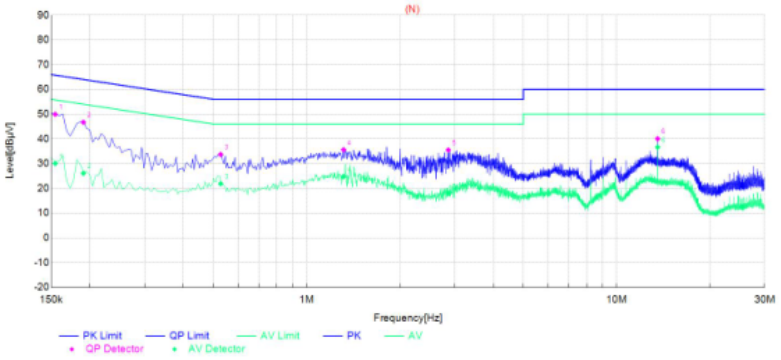
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	40.53	20.54	10.35	50.88	30.89	66.00	56.00	15.12	25.11	L1	PASS
2	0.24	32.07	14.76	10.13	42.20	24.89	62.10	52.10	19.90	27.21	L1	PASS
3	0.519	23.70	14.96	10.24	33.94	25.20	56.00	46.00	22.06	20.80	L1	PASS
4	1.248	26.24	14.16	10.22	36.46	24.38	56.00	46.00	19.54	21.62	L1	PASS
5	3.1875	20.59	5.53	10.35	30.94	15.88	56.00	46.00	25.06	30.12	L1	PASS
6	6.3915	19.38	8.06	10.50	29.88	18.56	60.00	50.00	30.12	31.44	L1	PASS

Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N

Test Graph



Final Data List

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	39.59	19.72	10.33	49.92	30.05	65.75	55.75	15.83	25.70	N	PASS
2	0.1905	36.54	15.93	10.16	46.70	26.09	64.01	54.01	17.31	27.92	N	PASS
3	0.528	23.47	11.66	10.23	33.70	21.89	56.00	46.00	22.30	24.11	N	PASS
4	1.3155	25.41	14.57	10.22	35.63	24.79	56.00	46.00	20.37	21.21	N	PASS
5	2.8635	25.17	7.58	10.33	35.50	17.91	56.00	46.00	20.50	28.09	N	PASS
6	13.56	29.18	25.75	10.88	40.06	36.63	60.00	50.00	19.94	13.37	N	PASS

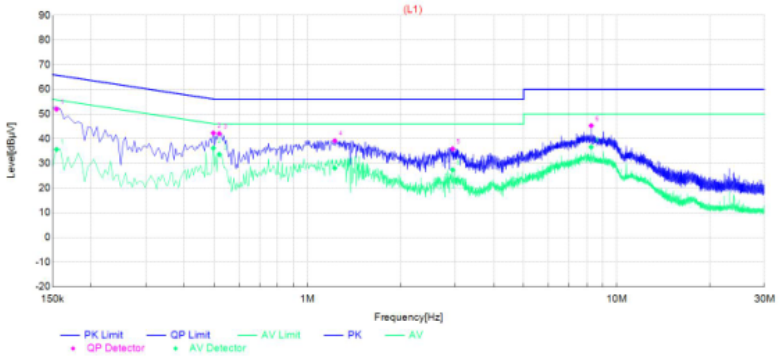
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Version C:
Adapter: ADS-65HI-19A-124036F

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

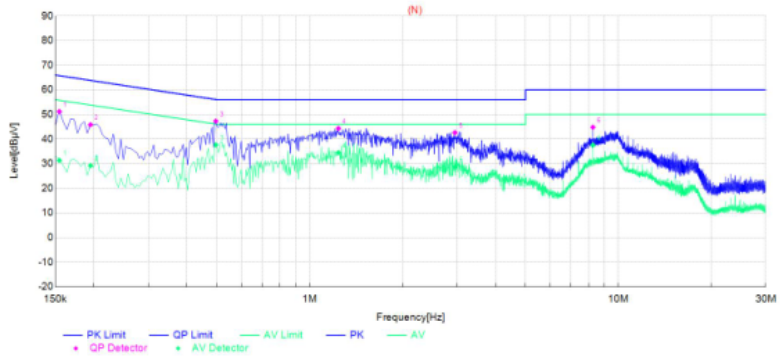
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	41.64	25.33	10.33	51.97	35.66	65.75	55.75	13.78	20.09	L1	PASS
2	0.4965	32.04	25.91	10.25	42.29	36.16	56.06	46.06	13.77	9.90	L1	PASS
3	0.519	31.78	23.40	10.24	42.02	33.64	56.00	46.00	13.98	12.36	L1	PASS
4	1.2255	28.96	17.85	10.22	39.18	28.07	56.00	46.00	16.82	17.93	L1	PASS
5	2.9445	25.55	17.03	10.34	35.89	27.37	56.00	46.00	20.11	18.63	L1	PASS
6	8.2635	34.72	26.01	10.57	45.29	36.58	60.00	50.00	14.71	13.42	L1	PASS

Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N

Test Graph



Final Data List

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	40.85	21.00	10.33	51.18	31.33	65.75	55.75	14.57	24.42	N	PASS
2	0.195	35.66	19.06	10.16	45.82	29.22	63.82	53.82	18.00	24.60	N	PASS
3	0.4965	37.01	27.44	10.25	47.26	37.69	56.06	46.06	8.80	8.37	N	PASS
4	1.239	34.10	24.29	10.22	44.32	34.51	56.00	46.00	11.68	11.49	N	PASS
5	2.9535	32.27	18.42	10.34	42.61	28.76	56.00	46.00	13.39	17.24	N	PASS
6	8.268	34.23	26.97	10.57	44.80	37.54	60.00	50.00	15.20	12.46	N	PASS

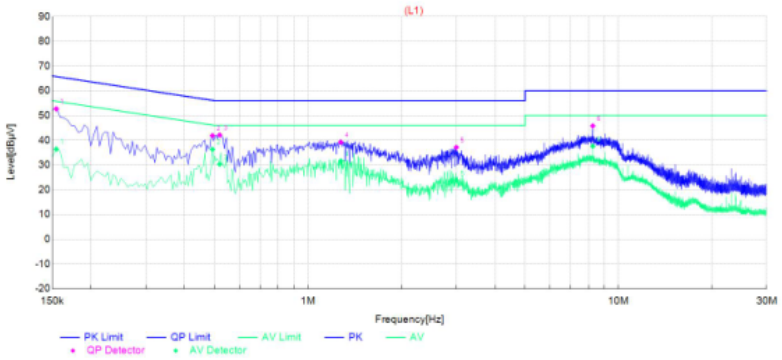
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Adapter: SOY-2400150-332-A

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

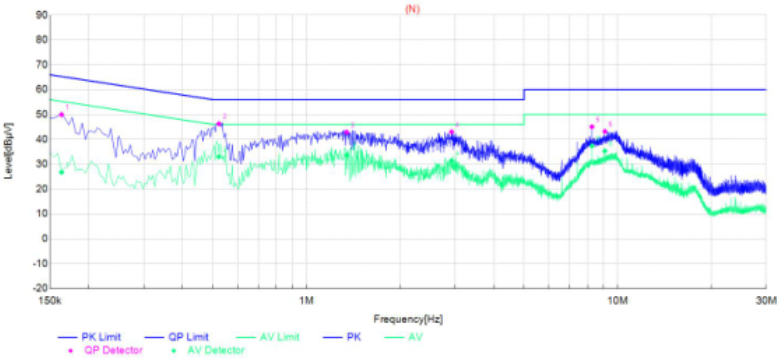
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	42.38	26.08	10.33	52.71	36.41	65.75	55.75	13.04	19.34	L1	PASS
2	0.492	31.62	26.07	10.26	41.88	36.33	56.13	46.13	14.25	9.80	L1	PASS
3	0.519	31.87	20.07	10.24	42.11	30.31	56.00	46.00	13.89	15.69	L1	PASS
4	1.275	29.01	21.38	10.22	39.23	31.60	56.00	46.00	16.77	14.40	L1	PASS
5	3.003	26.78	13.42	10.34	37.12	23.76	56.00	46.00	18.88	22.24	L1	PASS
6	8.2635	35.24	27.04	10.57	45.81	37.61	60.00	50.00	14.19	12.39	L1	PASS

Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N

Test Graph



Final Data List

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1635	39.66	16.46	10.29	49.95	26.75	65.28	55.28	15.33	28.53	N	PASS
2	0.5235	36.02	22.80	10.24	46.26	33.04	56.00	46.00	9.74	12.96	N	PASS
3	1.347	32.65	23.34	10.22	42.87	33.56	56.00	46.00	13.13	12.44	N	PASS
4	2.9265	32.66	21.05	10.33	42.99	31.38	56.00	46.00	13.01	14.62	N	PASS
5	8.2635	34.50	26.78	10.57	45.07	37.35	60.00	50.00	14.93	12.65	N	PASS
6	9.0915	32.62	24.77	10.55	43.17	35.32	60.00	50.00	16.83	14.68	N	PASS

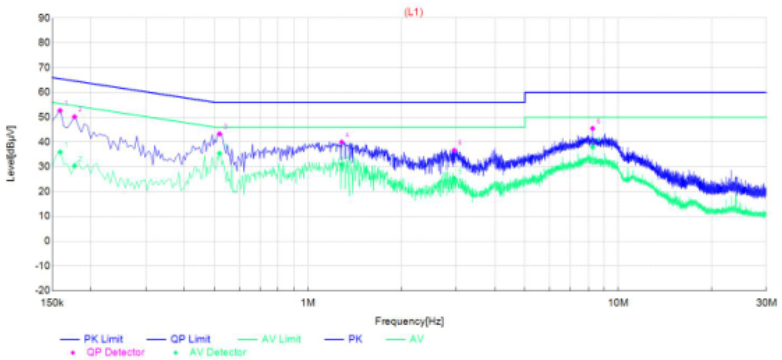
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Adapter: CYZS36-240150

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

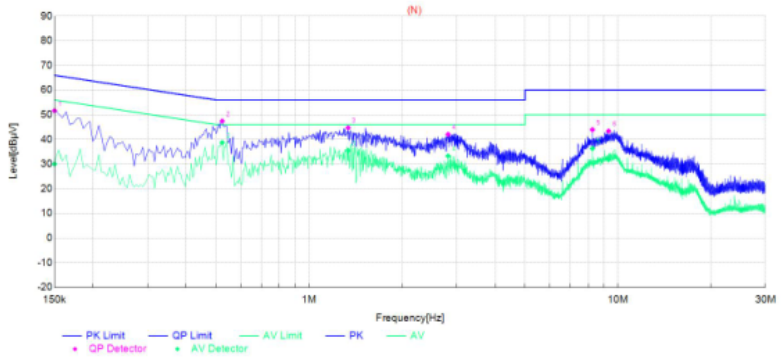
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.159	42.36	25.62	10.31	52.67	35.93	65.52	55.52	12.85	19.59	L1	PASS
2	0.177	39.93	20.15	10.22	50.15	30.37	64.63	54.63	14.48	24.26	L1	PASS
3	0.519	33.04	25.14	10.24	43.28	35.38	56.00	46.00	12.72	10.62	L1	PASS
4	1.284	29.71	20.64	10.22	39.93	30.86	56.00	46.00	16.07	15.14	L1	PASS
5	2.958	26.29	14.99	10.34	36.63	25.33	56.00	46.00	19.37	20.67	L1	PASS
6	8.2635	34.89	27.36	10.57	45.46	37.93	60.00	50.00	14.54	12.07	L1	PASS

Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N

Test Graph



Final Data List

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	41.29	19.65	10.35	51.64	30.00	66.00	56.00	14.36	26.00	N	PASS
2	0.5235	37.18	28.44	10.24	47.42	38.68	56.00	46.00	8.58	7.32	N	PASS
3	1.338	34.47	25.26	10.22	44.69	35.48	56.00	46.00	11.31	10.52	N	PASS
4	2.8185	31.70	22.92	10.33	42.03	33.25	56.00	46.00	13.97	12.75	N	PASS
5	8.2635	33.38	25.74	10.57	43.95	36.31	60.00	50.00	16.05	13.69	N	PASS
6	9.321	32.80	21.23	10.56	43.36	31.79	60.00	50.00	16.64	18.21	N	PASS

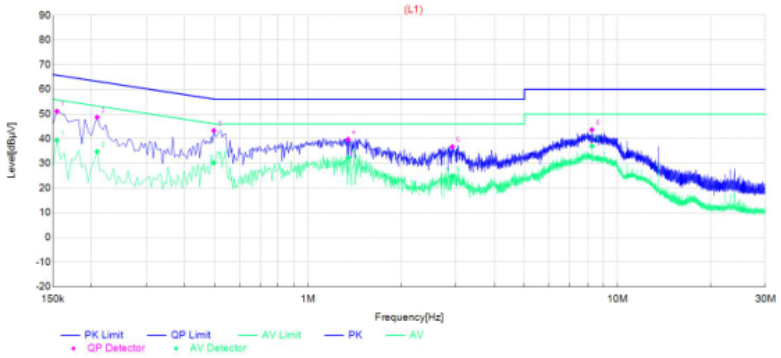
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Version D:
Adapter: ADS-65HI-19A-124036F

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

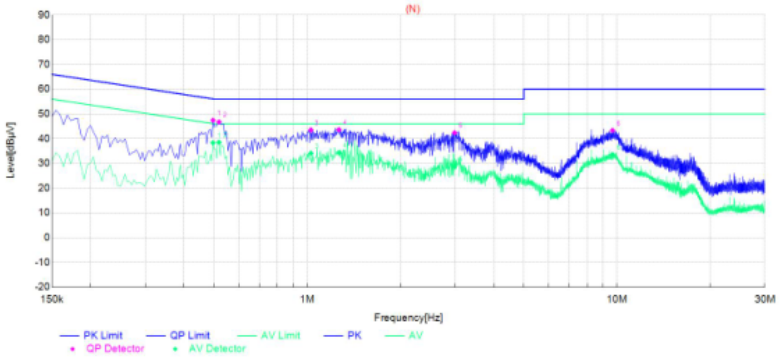
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	40.76	29.01	10.33	51.09	39.34	65.75	55.75	14.66	16.41	L1	PASS
2	0.2085	38.52	24.61	10.15	48.67	34.76	63.26	53.26	14.59	18.50	L1	PASS
3	0.4965	33.03	19.97	10.25	43.28	30.22	56.06	46.06	12.78	15.84	L1	PASS
4	1.347	29.51	21.91	10.22	39.73	32.13	56.00	46.00	16.27	13.87	L1	PASS
5	2.9265	26.40	14.45	10.33	36.73	24.78	56.00	46.00	19.27	21.22	L1	PASS
6	8.2635	33.02	26.41	10.57	43.59	36.98	60.00	50.00	16.41	13.02	L1	PASS

Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N

Test Graph



Final Data List

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.4965	37.17	28.08	10.25	47.42	38.33	56.06	46.06	8.64	7.73	N	PASS
2	0.519	36.49	28.27	10.24	46.73	38.51	56.00	46.00	9.27	7.49	N	PASS
3	1.0275	33.31	23.90	10.20	43.51	34.10	56.00	46.00	12.49	11.90	N	PASS
4	1.266	33.39	24.14	10.22	43.61	34.36	56.00	46.00	12.39	11.64	N	PASS
5	2.9895	32.02	18.46	10.34	42.36	28.80	56.00	46.00	13.64	17.20	N	PASS
6	9.6675	32.75	23.02	10.57	43.32	33.59	60.00	50.00	16.68	16.41	N	PASS

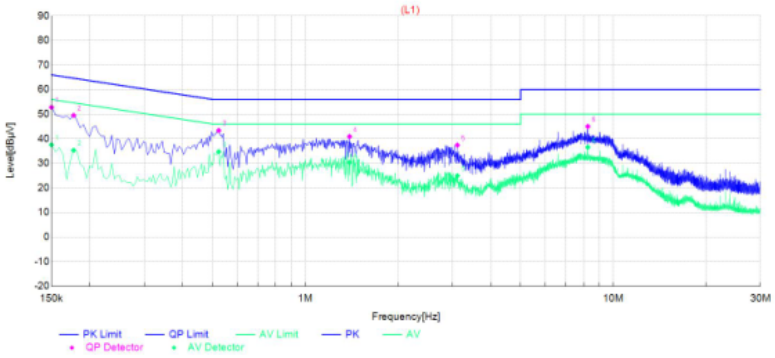
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Adapter: SOY-2400150-332-A

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

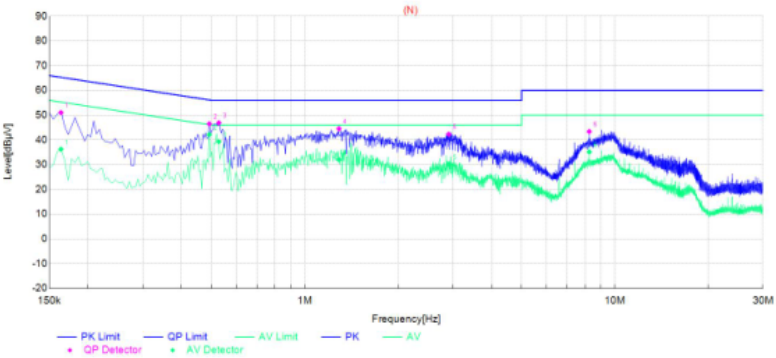
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	42.43	27.20	10.35	52.78	37.55	66.00	56.00	13.22	18.45	L1	PASS
2	0.177	39.28	25.06	10.22	49.50	35.28	64.63	54.63	15.13	19.35	L1	PASS
3	0.5235	33.12	24.46	10.24	43.36	34.70	56.00	46.00	12.64	11.30	L1	PASS
4	1.392	30.65	20.11	10.23	40.88	30.34	56.00	46.00	15.12	15.66	L1	PASS
5	3.1155	27.06	14.58	10.34	37.40	24.92	56.00	46.00	18.60	21.08	L1	PASS
6	8.2635	34.42	25.95	10.57	44.99	36.52	60.00	50.00	15.01	13.48	L1	PASS

Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N

Test Graph



Final Data List

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1635	40.73	25.93	10.29	51.02	36.22	65.28	55.28	14.26	19.06	N	PASS
2	0.492	36.22	31.86	10.26	46.48	42.12	56.13	46.13	9.65	4.01	N	PASS
3	0.528	36.65	29.05	10.23	46.88	39.28	56.00	46.00	9.12	6.72	N	PASS
4	1.2885	34.30	21.77	10.22	44.52	31.99	56.00	46.00	11.48	14.01	N	PASS
5	2.9085	31.93	19.81	10.33	42.26	30.14	56.00	46.00	13.74	15.86	N	PASS
6	8.259	32.80	24.54	10.57	43.37	35.11	60.00	50.00	16.63	14.89	N	PASS

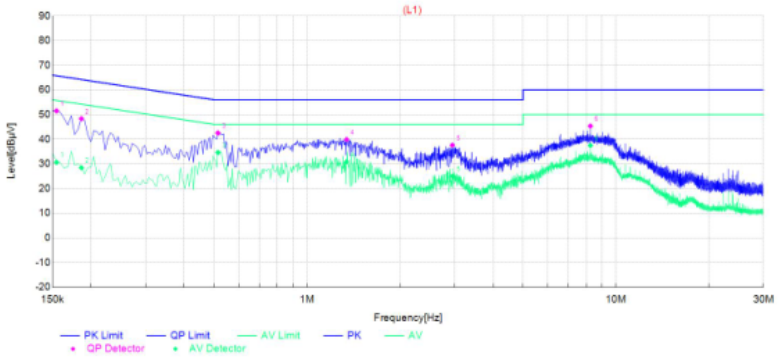
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Adapter: CYZS36-240150

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

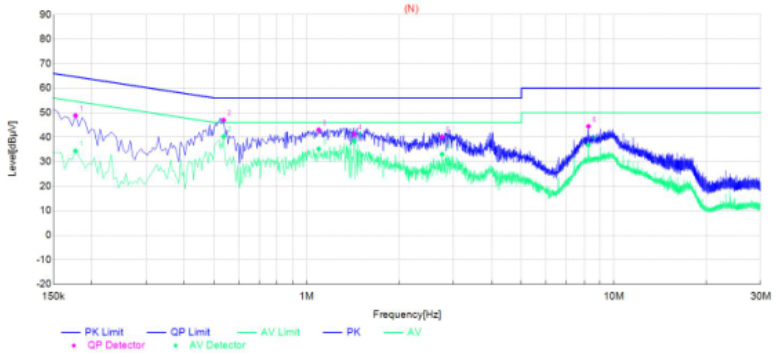
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	41.14	20.28	10.33	51.47	30.61	65.75	55.75	14.28	25.14	L1	PASS
2	0.186	38.14	18.24	10.18	48.32	28.42	64.21	54.21	15.89	25.79	L1	PASS
3	0.5145	32.30	24.39	10.24	42.54	34.63	56.00	46.00	13.46	11.37	L1	PASS
4	1.3425	29.67	20.64	10.22	39.89	30.86	56.00	46.00	16.11	15.14	L1	PASS
5	2.9535	27.26	14.70	10.34	37.60	25.04	56.00	46.00	18.40	20.96	L1	PASS
6	8.259	34.80	26.90	10.57	45.37	37.47	60.00	50.00	14.63	12.53	L1	PASS

Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N

Test Graph



Final Data List

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.177	38.58	24.14	10.22	48.80	34.36	64.63	54.63	15.83	20.27	N	PASS
2	0.537	36.72	30.03	10.23	46.95	40.26	56.00	46.00	9.05	5.74	N	PASS
3	1.095	32.78	25.00	10.21	42.99	35.21	56.00	46.00	13.01	10.79	N	PASS
4	1.428	31.03	28.08	10.23	41.26	38.31	56.00	46.00	14.74	7.69	N	PASS
5	2.76	29.77	22.71	10.32	40.09	33.03	56.00	46.00	15.91	12.97	N	PASS
6	8.259	33.84	26.15	10.57	44.41	36.72	60.00	50.00	15.59	13.28	N	PASS

Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Note: All modes have been tested and the worst mode is recorded in the report, NFC has two optional antennas, with the worst mode recorded in the report (NFC antenna Model:DS2-52).

9. ANTENNA REQUIREMENTS

9.1. Standard Applicable

According to antenna requirement of §15.203.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

9.2. Antenna Connected Construction

9.2.1. Standard Applicable

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

9.2.2. Antenna Connector Construction

The gains of antenna used for transmitting is 0dBi, and the antenna is a Loop antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

9.2.3. Results: Compliance.

10. TEST SETUP PHOTOS OF THE EUT

Photo of Radiated Emissions Measurement

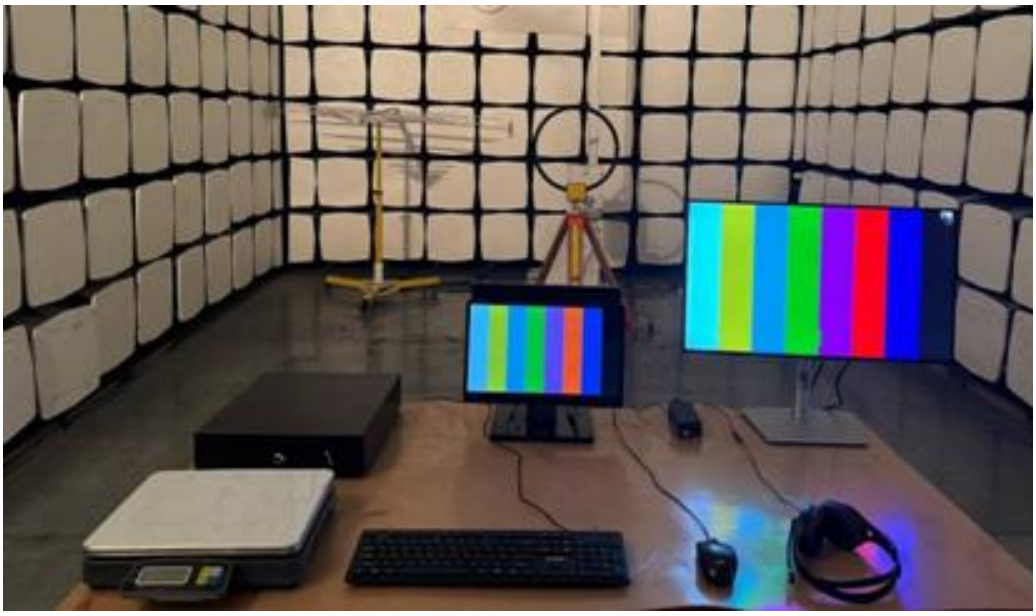


Fig. 1

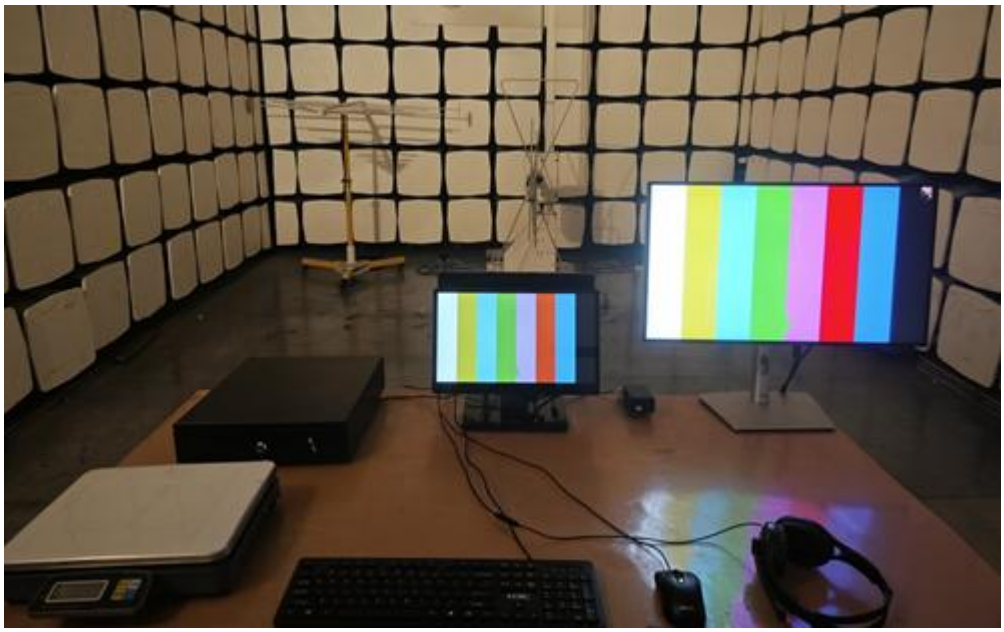


Fig. 2

Photo of Conducted Emission Measurement

Fig. 3

11. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the Test Report: **CTA24103100101.**

.....End of Report.....