

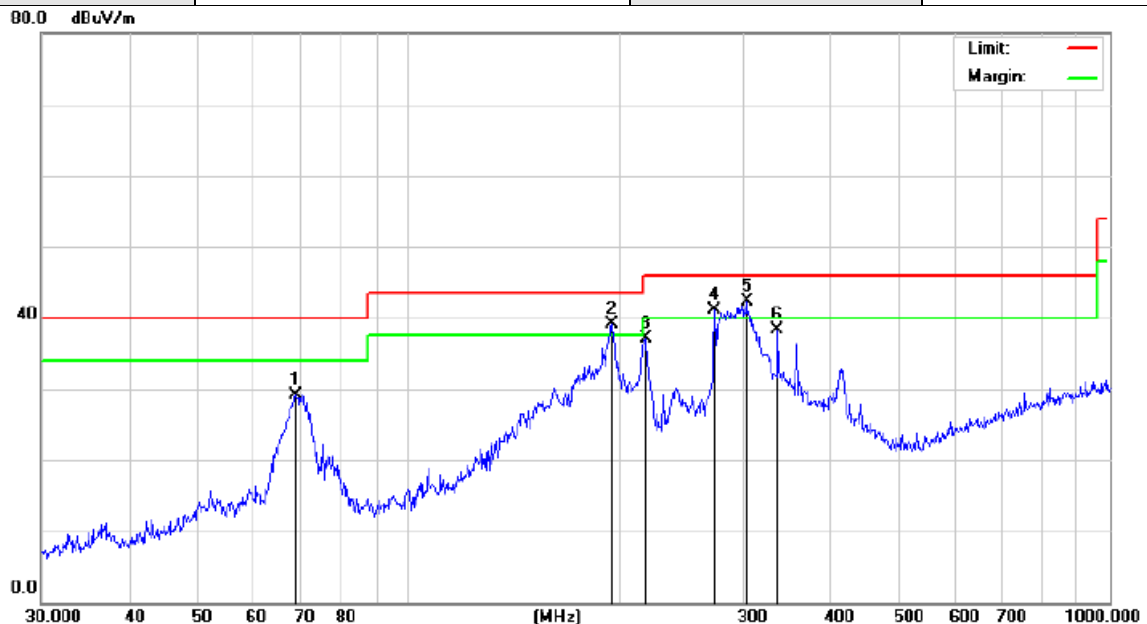
11.4 Measurement Result

Radiated Emission Below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

Radiated Emission Test Results at 30MHz-1GHz

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5745MHz	Antenna	Horizontal

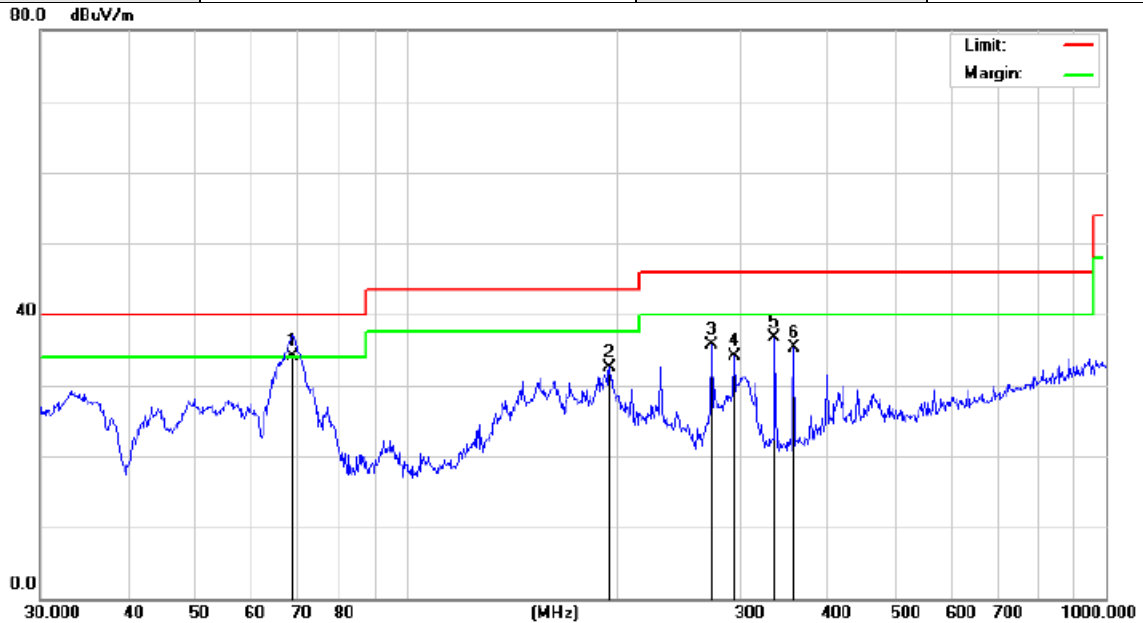


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		69.1140	54.29	-25.24	29.05	40.00	-10.95	peak
2	!	195.1365	62.30	-23.19	39.11	43.50	-4.39	peak
3		218.3085	60.32	-23.31	37.01	46.00	-8.99	peak
4	!	273.2341	61.33	-20.25	41.08	46.00	-4.92	peak
5	*	303.5437	61.76	-19.50	42.26	46.00	-3.74	peak
6		336.0351	56.80	-18.56	38.24	46.00	-7.76	peak

Result: Pass

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EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5745MHz	Antenna	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	68.6310	56.71	-22.54	34.17	40.00	-5.83	QP
2		195.1365	54.73	-22.32	32.41	43.50	-11.09	peak
3		273.2341	55.09	-19.46	35.63	46.00	-10.37	peak
4		294.1137	53.11	-18.95	34.16	46.00	-11.84	peak
5		336.0352	54.61	-17.84	36.77	46.00	-9.23	peak
6		357.9287	53.01	-17.66	35.35	46.00	-10.65	peak

Result: Pass

Note:

- Factor=Antenna Factor + Cable loss- Pre-amplifier, Margin=Measurement-Limit.
- All test modes had been pre-tested, Refer to Chapter 5 of the report for details.

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Radiated Emissions Test Results Above 1GHz

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5180MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10360.042	47.61	9.14	56.75	68.20	-11.45	peak
15540.063	42.53	10.22	52.75	74.00	-21.25	peak
15540.063	31.59	10.22	41.81	54.00	-12.19	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Radiated Emission Above 1GHz–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10360.042	47.62	9.14	56.76	68.20	-11.44	peak
15540.063	43.25	10.22	53.47	74.00	-20.53	peak
15540.063	32.64	10.22	42.86	54.00	-11.14	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5200MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10400.042	47.52	9.14	56.66	68.20	-11.54	peak
15600.063	38.42	10.22	48.64	74.00	-25.36	peak
15600.063	31.26	10.22	41.48	54.00	-12.52	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Radiated Emission Above 1GHz–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10400.042	48.62	9.14	57.76	68.20	-10.44	peak
15600.063	41.62	10.22	51.84	74.00	-22.16	peak
15600.063	32.53	10.22	42.75	54.00	-11.25	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5240MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.042	49.62	9.27	58.89	68.20	-9.31	peak
15720.063	42.51	10.38	52.89	74.00	-21.11	peak
15720.063	31.52	10.38	41.90	54.00	-12.10	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Radiated Emission Above 1GHz–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.042	47.62	9.27	56.89	68.20	-11.31	peak
15720.063	42.52	10.38	52.90	74.00	-21.10	peak
15720.063	31.53	10.38	41.91	54.00	-12.09	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5260MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10520.022	49.65	9.14	58.79	68.20	-9.41	peak
15780.054	42.31	10.22	52.53	74.00	-21.47	peak
15780.054	31.53	10.22	41.75	54.00	-12.25	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Radiated Emission Above 1GHz–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10520.022	47.81	9.14	56.95	68.20	-11.25	peak
15780.054	42.96	10.22	53.18	74.00	-20.82	peak
15780.054	31.52	10.22	41.74	54.00	-12.26	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5300MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10600.022	49.21	9.14	58.35	74.00	-15.65	peak
10600.022	38.61	9.14	47.75	54.00	-6.25	AVG
15900.045	41.53	10.22	51.75	74.00	-22.25	peak
15900.045	31.52	10.22	41.74	54.00	-12.26	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Radiated Emission Above 1GHz–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10600.022	47.34	9.14	56.48	74.00	-17.52	peak
10600.022	38.52	9.14	47.66	54.00	-6.34	AVG
15900.045	42.31	10.22	52.53	74.00	-21.47	peak
15900.045	31.52	10.22	41.74	54.00	-12.26	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5320MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10640.015	48.61	9.14	57.75	74.00	-16.25	peak
10640.015	37.42	9.14	46.56	54.00	-7.44	AVG
15900.045	42.16	10.22	52.38	74.00	-21.62	peak
15900.045	31.25	10.22	41.47	54.00	-12.53	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Radiated Emission Above 1GHz–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10640.015	47.61	9.14	56.75	74.00	-17.25	peak
10640.015	31.53	9.14	40.67	54.00	-13.33	AVG
15900.045	42.55	10.22	52.77	74.00	-21.23	peak
15900.045	31.72	10.22	41.94	54.00	-12.06	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5500MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
11000.056	47.94	9.14	57.08	74.00	-16.92	peak
11000.056	38.52	9.14	47.66	54.00	-6.34	AVG
16500.023	41.26	10.22	51.48	68.20	-16.72	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Radiated Emission Above 1GHz–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
11000.056	48.62	9.14	57.76	74.00	-16.24	peak
11000.056	36.55	9.14	45.69	54.00	-8.31	AVG
16500.023	41.85	10.22	52.07	68.20	-16.13	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5580MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
11200.022	48.62	9.14	57.76	74.00	-16.24	peak
11200.022	37.49	9.14	46.63	54.00	-7.37	AVG
16800.025	32.53	10.22	42.75	68.20	-25.45	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Radiated Emission Above 1GHz–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
11200.022	48.61	9.14	57.75	74.00	-16.25	peak
11200.022	32.53	9.14	41.67	54.00	-12.33	AVG
16800.025	42.31	10.22	52.53	68.20	-15.67	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5700MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11400.025	49.62	9.14	58.76	74.00	-15.24	peak
11400.025	37.45	9.14	46.59	54.00	-7.41	AVG
17100.056	42.61	10.22	52.83	68.20	-15.37	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Radiated Emission Above 1GHz–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11400.025	48.74	9.14	57.88	74.00	-16.12	peak
11400.025	35.49	9.14	44.63	54.00	-9.37	AVG
17100.056	42.31	10.22	52.53	68.20	-15.67	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5745MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11490.042	47.91	9.42	57.33	74.00	-16.67	peak
11490.042	36.54	9.42	45.96	54.00	-8.04	AVG
17235.063	41.23	10.51	51.74	68.20	-16.46	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Radiated Emission Above 1GHz–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11490.042	48.97	9.42	58.39	74.00	-15.61	peak
11490.042	37.42	9.42	46.84	54.00	-7.16	AVG
17235.063	42.69	10.51	53.20	68.20	-15.00	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5785MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11570.042	47.04	9.42	56.46	74.00	-17.54	peak
11570.042	35.85	9.42	45.27	54.00	-8.73	AVG
17355.063	42.37	10.51	52.88	68.20	-15.32	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Radiated Emission Above 1GHz–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11570.042	46.28	9.42	55.70	74.00	-18.30	peak
11570.042	36.38	9.42	45.80	54.00	-8.20	AVG
17355.063	41.74	10.51	52.25	68.20	-15.95	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

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Radiated Emissions Test Results Above 1GHz

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5825MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11650.042	47.52	9.62	57.14	74.00	-16.86	peak
11650.042	38.69	9.62	48.31	54.00	-5.69	AVG
17475.063	41.99	10.75	52.74	68.20	-15.46	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Radiated Emission Above 1GHz–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11650.042	47.29	9.62	56.91	74.00	-17.09	peak
11650.042	38.52	9.62	48.14	54.00	-5.86	AVG
17475.063	41.53	10.75	52.28	68.20	-15.92	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Result: Pass

Note:

- The amplitude of other spurious emissions from 1GHz to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
- Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Measure Result-Limit.
- The “Factor” value can be calculated automatically by software of measurement system.
- All test modes had been pre-tested. Refer to Chapter 5 of the report for details.

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Test Result for Band edge Emission at Restricted bands

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	24.8°C	Relative Humidity	52%
Pressure	960hPa	Test Voltage	DC 7.2V

802.11n20_TX CH36 5180 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	5150.00	39.56	29.99	30.21	10.35	49.69	74	24.31	Peak	Horizontal
2	5150.00	29.88	29.99	30.21	10.35	40.01	54	13.99	AV	Horizontal
3	5150.00	36.99	29.99	30.21	10.35	47.12	74	26.88	Peak	Vertical
4	5150.00	29.46	29.99	30.21	10.35	39.59	54	14.41	AV	Vertical
802.11n40_TX CH38 5190 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	5150.00	49.27	30.25	30.25	10.35	59.62	74	14.38	Peak	Horizontal
2	5150.00	39.91	30.25	30.25	10.35	50.26	54	3.74	AV	Horizontal
3	5150.00	46.90	30.25	30.25	10.35	57.25	74	16.75	Peak	Vertical
4	5150.00	36.71	30.25	30.25	10.35	47.06	54	6.94	AV	Vertical
802.11ac80_TX 42 5210 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	5150.00	51.16	30.25	30.25	10.35	61.51	74	12.49	Peak	Horizontal
2	5150.00	39.86	30.25	30.25	10.35	50.21	54	3.79	AV	Horizontal
3	5150.00	49.87	30.25	30.25	10.35	60.22	74	13.78	Peak	Vertical
4	5150.00	37.79	30.25	30.25	10.35	48.14	54	5.86	AV	Vertical

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802.11n20_TX CH52_5260 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	5350.00	37.53	29.99	30.21	10.65	47.96	74	26.04	Peak	Horizontal
2	5350.00	28.88	29.99	30.21	10.65	39.31	54	14.69	AV	Horizontal
3	5350.00	35.28	29.99	30.21	10.65	45.71	74	28.29	Peak	Vertical
4	5350.00	25.32	29.99	30.21	10.65	35.75	54	18.25	AV	Vertical
802.11n40_TX CH54_5270 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	5350.00	43.90	30.25	30.25	10.65	54.55	74	19.45	Peak	Horizontal
2	5350.00	33.99	30.25	30.25	10.65	44.64	54	9.36	AV	Horizontal
3	5350.00	43.30	30.25	30.25	10.65	53.95	74	20.05	Peak	Vertical
4	5350.00	31.96	30.25	30.25	10.65	42.61	54	11.39	AV	Vertical
802.11ac80_TX 58_5290 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	5350.00	42.31	30.25	30.25	10.65	52.96	74	21.04	Peak	Horizontal
2	5350.00	34.76	30.25	30.25	10.65	45.41	54	8.59	AV	Horizontal
3	5350.00	39.29	30.25	30.25	10.65	49.94	74	24.06	Peak	Vertical
4	5350.00	30.98	30.25	30.25	10.65	41.63	54	12.37	AV	Vertical

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802.11n20_TX CH100_5500 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	5460.00	36.65	29.99	30.21	10.95	47.38	74	26.62	Peak	Horizontal
2	5460.00	27.89	29.99	30.21	10.95	38.62	54	15.38	AV	Horizontal
3	5460.00	38.74	29.99	30.21	10.95	49.47	74	24.53	Peak	Vertical
4	5460.00	24.04	29.99	30.21	10.95	34.77	54	19.23	AV	Vertical
802.11n40_TX CH102_5510 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	5460.00	44.80	30.25	30.25	10.95	55.75	74	18.25	Peak	Horizontal
2	5460.00	32.37	30.25	30.25	10.95	43.32	54	10.68	AV	Horizontal
3	5460.00	43.35	30.25	30.25	10.95	54.30	74	19.70	Peak	Vertical
4	5460.00	30.05	30.25	30.25	10.95	41.00	54	13.00	AV	Vertical
802.11ac80_TX 106_5530 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	5460.00	32.45	30.25	30.25	10.95	43.40	74	30.60	Peak	Horizontal
2	5460.00	36.70	30.25	30.25	10.95	47.65	54	6.35	AV	Horizontal
3	5460.00	40.52	30.25	30.25	10.95	51.47	74	22.53	Peak	Vertical
4	5460.00	30.74	30.25	30.25	10.95	41.69	54	12.31	AV	Vertical

Result: Pass

Note:

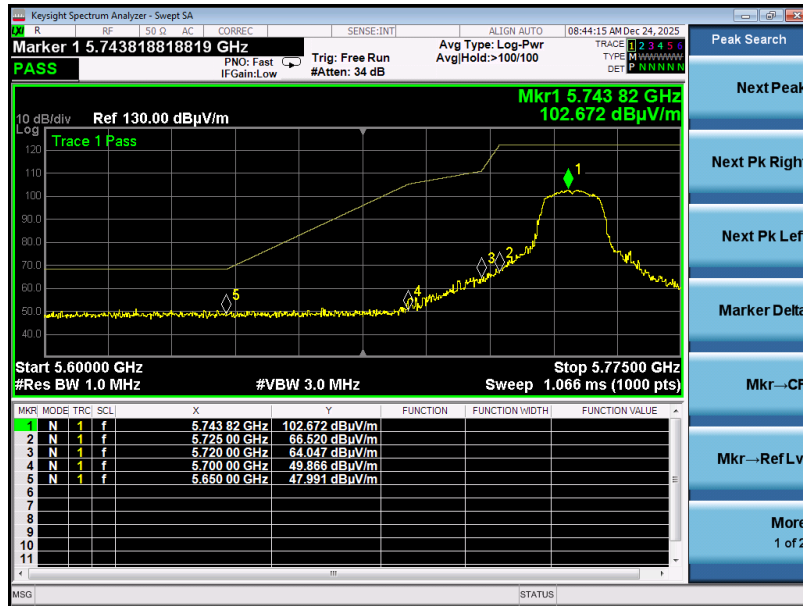
1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.
3. Margin = Emission Level-Limit.
4. The duty cycle coefficient has been corrected into the spectrum analyzer readings.
5. All the modes had been pre-tested, Refer to Chapter 5 of the report for details.

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Test Result for Band edge Emission at Restricted bands

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	22.3°C	Relative Humidity	54.2%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5745MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Result: Pass

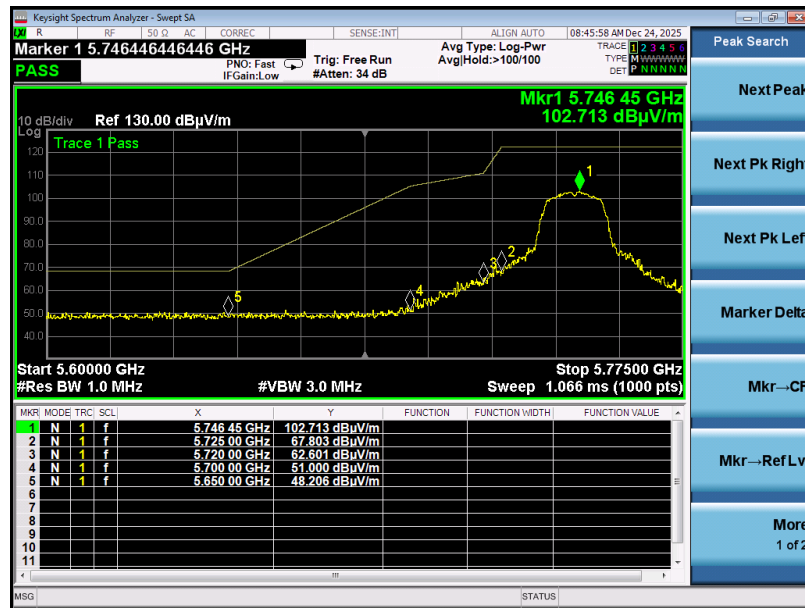
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Test Result for Band edge Emission at Restricted bands

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	22.3°C	Relative Humidity	54.2%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5745MHz	Antenna	Vertical

Test Graph for Peak Measurement



Result: Pass

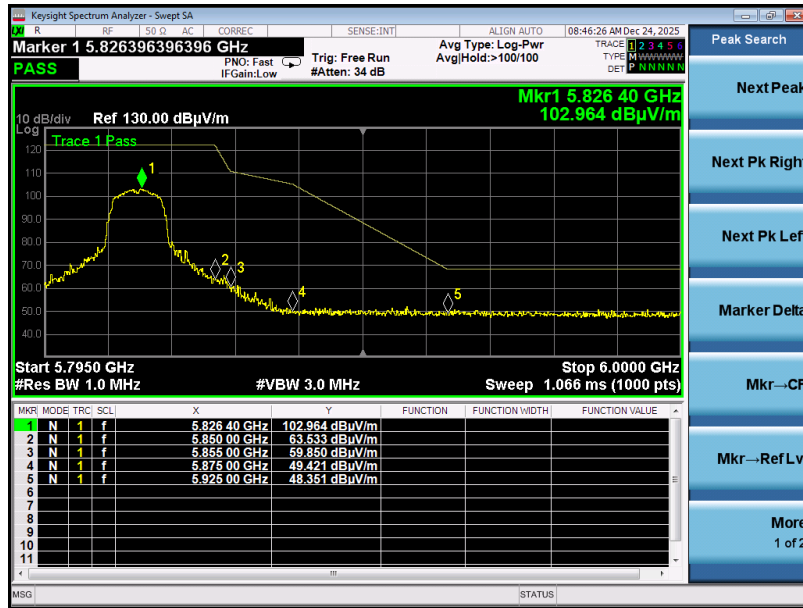
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Test Result for Band edge Emission at Restricted bands

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	22.3°C	Relative Humidity	54.2%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5825MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Result: Pass

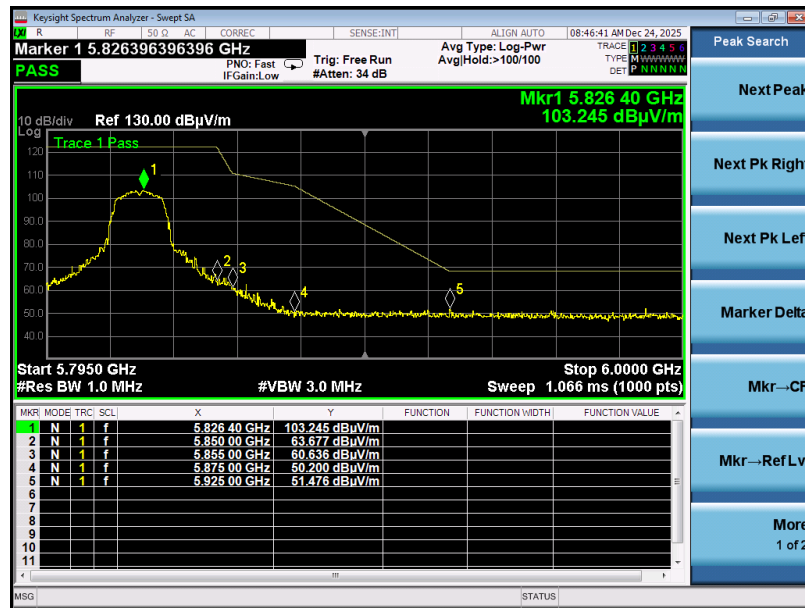
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Test Result for Band edge Emission at Restricted bands

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	22.3°C	Relative Humidity	54.2%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11a_5825MHz	Antenna	Vertical

Test Graph for Peak Measurement



Result: Pass

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Test Result for Band edge Emission at Restricted bands

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	22.3°C	Relative Humidity	54.2%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11n40_5755MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Result: Pass

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Test Result for Band edge Emission at Restricted bands

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	22.3°C	Relative Humidity	54.2%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11n40_5755MHz	Antenna	Vertical

Test Graph for Peak Measurement



Result: Pass

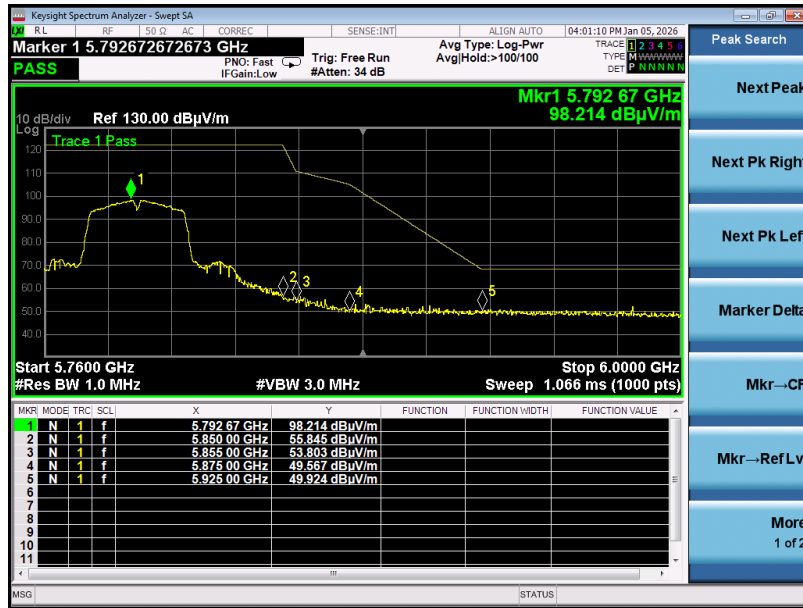
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Test Result for Band edge Emission at Restricted bands

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	22.3°C	Relative Humidity	54.2%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11n40_5795MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Result: Pass

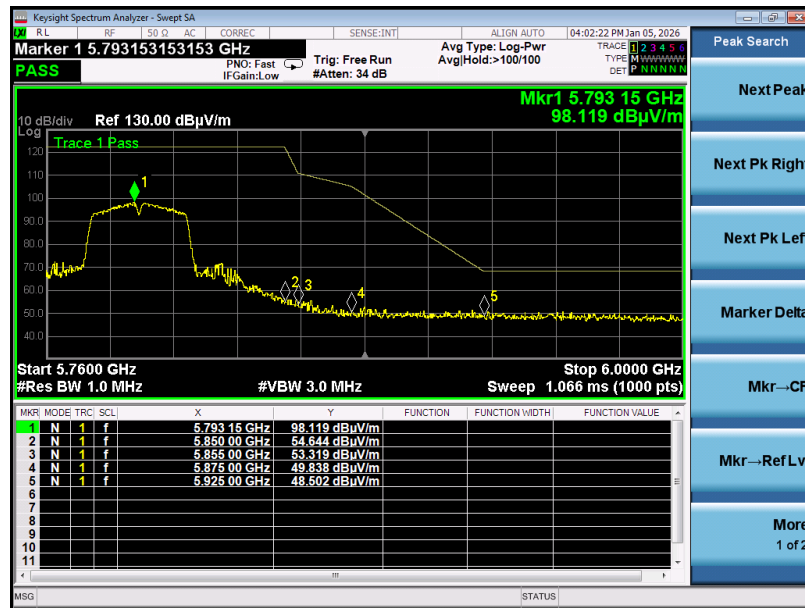
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Test Result for Band edge Emission at Restricted bands

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	22.3°C	Relative Humidity	54.2%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11n40_5795MHz	Antenna	Vertical

Test Graph for Peak Measurement



Result: Pass

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Test Result for Band edge Emission at Restricted bands

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	22.3°C	Relative Humidity	54.2%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11ac80_5775MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Result: Pass

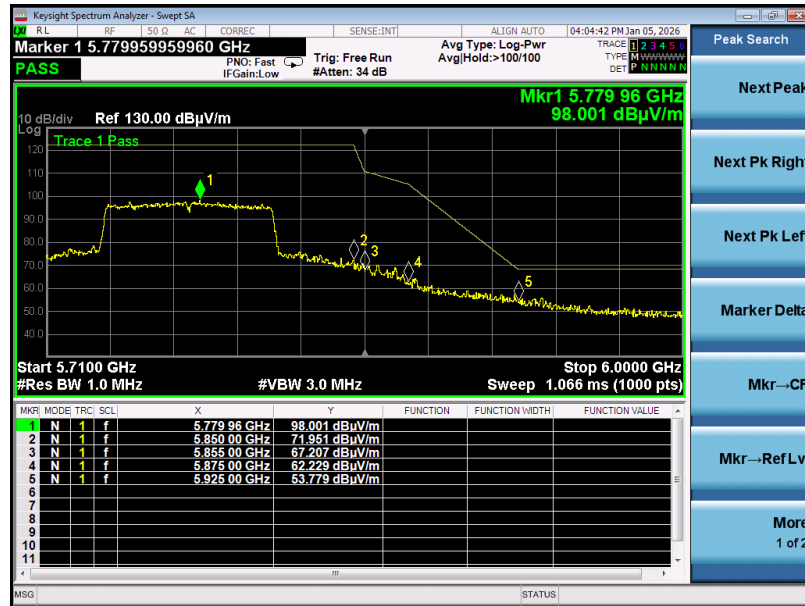
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Test Result for Band edge Emission at Restricted bands

EUT Name	Smart Diagnostic System	Model Name	P400
Temperature	22.3°C	Relative Humidity	54.2%
Pressure	960hPa	Test Voltage	DC 7.2V
Test Mode	802.11ac80_5775MHz	Antenna	Vertical

Test Graph for Peak Measurement



Result: Pass

Note:

1. The factor had been edited in the “Input Correction” of the Spectrum Analyzer.
2. All test modes had been pre-tested, Refer to Chapter 5 of the report for details.

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12. AC Power Line Conducted Emission Test

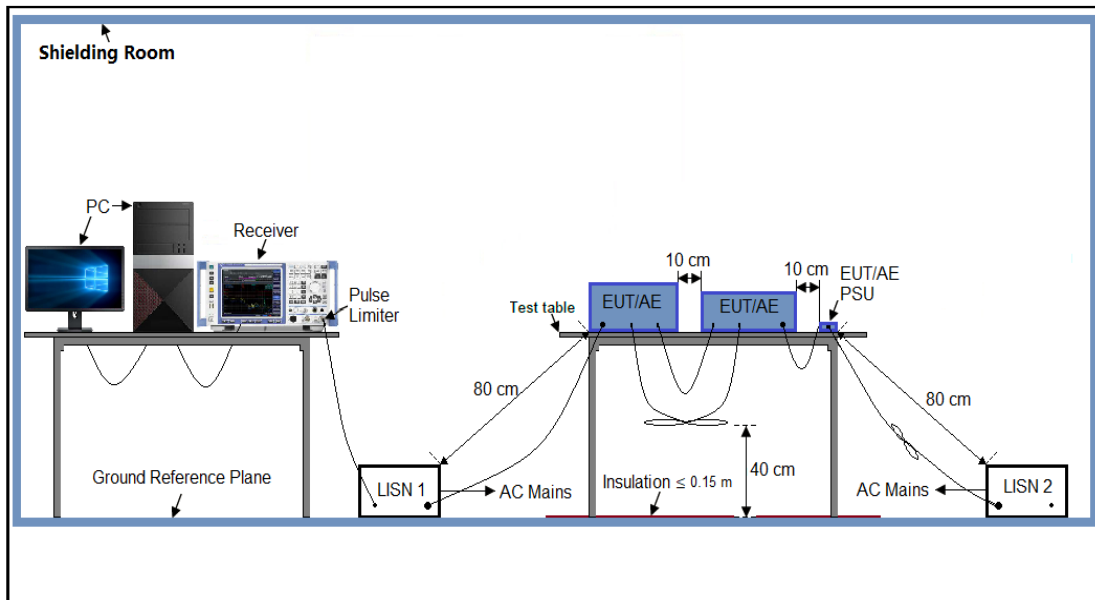
12.1 Measurement limit

Frequency	Maximum RF Line Voltage	
	Q.P (dBμV)	Average (dBμV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

12.2 Block Diagram of Line Conducted Emission Test



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12.3 Preliminary Procedure of Line Conducted Emission Test

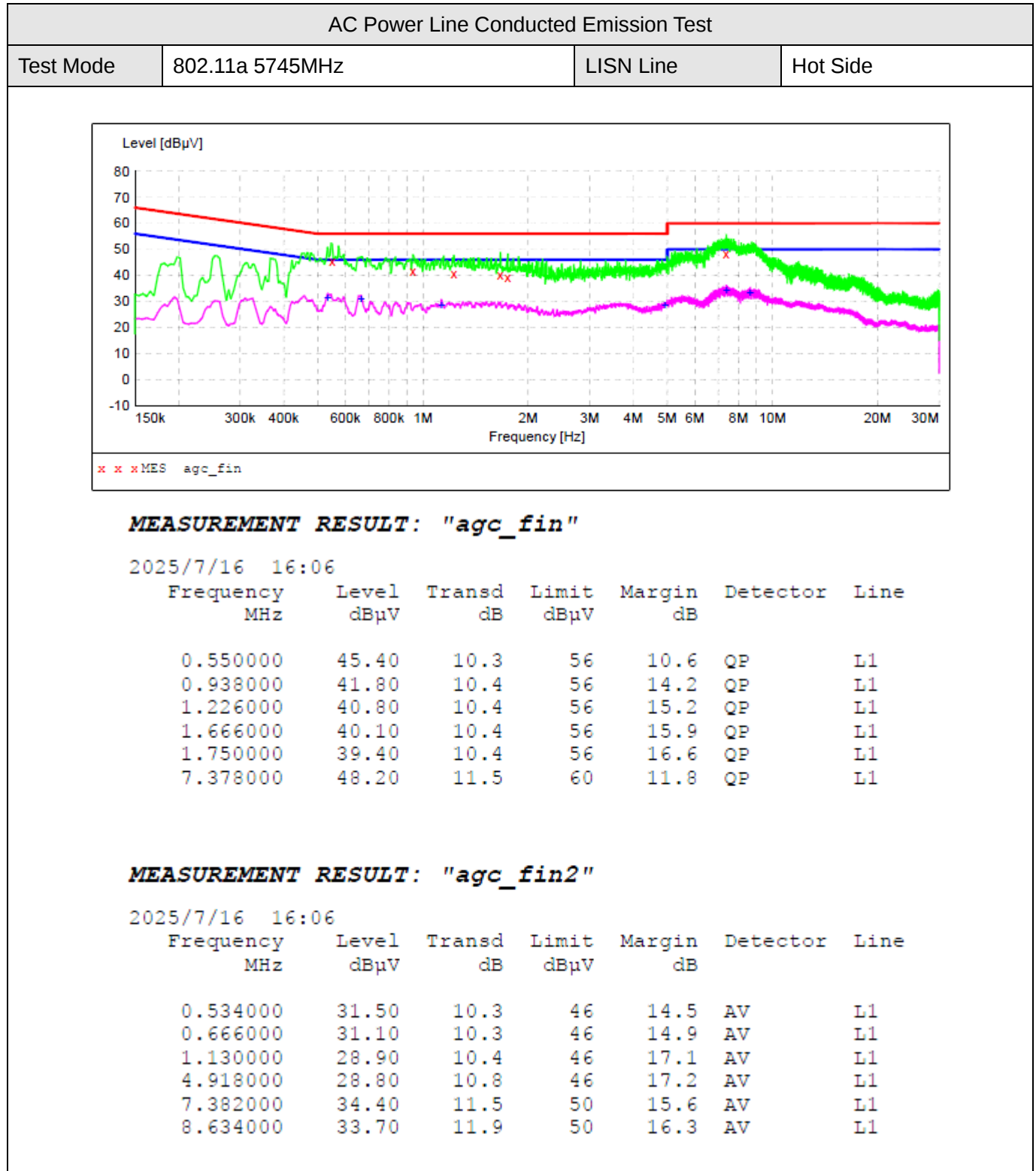
1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 Ohm load; the second scan had Line 1 connected to a 50 Ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4 Final Procedure of Line Conducted Emission Test

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case was reported on the Summary Data page.
4. The worst mode is 802.11a 5745MHz.

12.5 Test Result of Line Conducted Emission Test

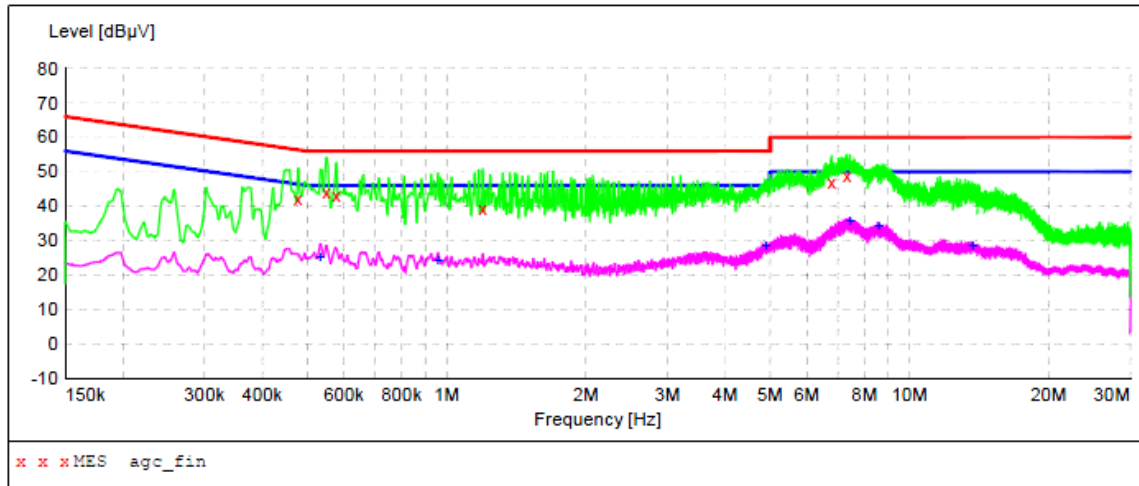


Result: Pass

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AC Power Line Conducted Emission Test

Test Mode	802.11a 5745MHz	LISN Line	Neutral Side
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MEASUREMENT RESULT: "agc_fin"

2025/7/16 16:09

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.478000	42.30	10.3	56	14.1	QP	N
0.550000	44.00	10.3	56	12.0	QP	N
0.578000	43.00	10.3	56	13.0	QP	N
1.198000	39.40	10.4	56	16.6	QP	N
6.786000	46.80	11.3	60	13.2	QP	N
7.322000	48.60	11.4	60	11.4	QP	N

MEASUREMENT RESULT: "agc_fin2"

2025/7/16 16:09

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.534000	25.20	10.3	46	20.8	AV	N
0.958000	24.70	10.4	46	21.3	AV	N
4.894000	28.60	10.8	46	17.4	AV	N
7.434000	36.10	11.5	50	13.9	AV	N
8.578000	34.50	11.8	50	15.5	AV	N
13.674000	28.90	13.0	50	21.1	AV	N

Result: Pass

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC16626250401AP02

Appendix II: Photographs of EUT

Refer to the Report No.: AGC16626250401AP03

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4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

----End of Report----

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