



$\pi/4$ DQPSK Ch 0

	Measurement	Cable	Antenna	Receiver			Antenna
Frequency	Result	loss	Factor	Reading	Limit	Margin	Pol.
(MHz)	(dBµV/m)	(dB)	(dB/m)	(dBµV)	(dBµV/m)	(dB)	(H/V)
17967.000	53.85	-25.50	46.70	32.65	74.00	20.15	Н
14766.500	50.05	-28.30	41.30	37.05	74.00	23.95	V
12542.000	49.48	-31.00	39.00	41.58	74.00	24.52	Н
9948.500	43.71	-33.50	38.10	39.11	74.00	30.29	V
7999.000	42.84	-34.80	37.10	40.54	74.00	31.16	Н
2340.800	56.33	-20.10	28.00	48.43	74.00	17.67	V

$\pi/4$ DQPSK Ch 39

	Measurement	Cable	Antenna	Receiver			Antenna
Frequency	Result	loss	Factor	Reading	Limit	Margin	Pol.
(MHz)	(dBµV/m)	(dB)	(dB/m)	(dBµV)	(dBµV/m)	(dB)	(H/V)
17953.000	53.44	-25.50	46.70	32.24	74.00	20.56	V
12565.000	49.10	-31.00	39.00	41.20	74.00	24.90	V
14925.000	49.03	-28.60	40.80	36.83	74.00	24.97	V
8273.000	44.49	-35.00	37.60	41.89	74.00	29.51	V
7985.000	42.45	-34.80	37.10	40.15	74.00	31.55	Н
4610.000	38.93	-37.30	32.70	43.63	74.00	35.07	Н

$\pi/4$ DQPSK Ch 78

	Measurement	Cable	Antenna	Receiver			Antenna
Frequency	Result	loss	Factor	Reading	Limit	Margin	Pol.
(MHz)	(dBµV/m)	(dB)	(dB/m)	(dBµV)	(dBµV/m)	(dB)	(H/V)
17932.000	52.96	-25.50	46.70	31.76	74.00	21.04	Н
14724.500	49.30	-28.30	41.30	36.30	74.00	24.70	V
12566.500	49.23	-31.00	39.00	41.33	74.00	24.77	V
9888.500	44.24	-33.50	38.10	39.64	74.00	29.76	V
7985.000	43.43	-34.80	37.10	41.13	74.00	30.57	Н
2485.300	67.50	-20.00	28.30	59.20	74.00	6.50	V





8DPSK Ch 0

	Measurement	Cable	Antenna	Receiver			Antenna
Frequency	Result	loss	Factor	Reading	Limit	Margin	Pol.
(MHz)	(dBµV/m)	(dB)	(dB/m)	(dBµV)	(dBµV/m)	(dB)	(H/V)
17890.500	52.76	-25.50	46.70	31.56	74.00	21.24	V
14679.000	49.54	-27.30	41.90	34.94	74.00	24.46	Н
12575.000	49.42	-31.00	39.00	41.52	74.00	24.58	Н
8011.000	44.79	-34.70	37.20	42.29	74.00	29.21	Н
7999.500	43.60	-34.80	37.10	41.30	74.00	30.40	Н
2371.600	56.21	-20.10	28.00	48.21	74.00	17.79	V

8DPSK Ch 39

	Measurement	Cable	Antenna	Receiver			Antenna
Frequency	Result	loss	Factor	Reading	Limit	Margin	Pol.
(MHz)	(dBµV/m)	(dB)	(dB/m)	(dBµV)	(dBµV/m)	(dB)	(H/V)
17957.000	53.66	-25.50	46.70	32.46	74.00	20.34	V
14536.000	49.90	-28.60	42.50	36.00	74.00	24.10	V
12038.000	49.33	-31.60	39.00	41.93	74.00	24.67	V
8191.500	44.20	-35.20	37.40	41.90	74.00	29.80	V
7443.500	42.84	-35.20	36.70	41.24	74.00	31.16	V
4396.500	39.21	-37.90	32.40	44.71	74.00	34.79	Н

8DPSK Ch 78

	Measurement	Cable	Antenna	Receiver			Antenna
Frequency	Result	loss	Factor	Reading	Limit	Margin	Pol.
(MHz)	(dBµV/m)	(dB)	(dB/m)	(dBµV)	(dBµV/m)	(dB)	(H/V)
17956.000	53.17	-25.50	46.70	31.97	74.00	20.83	н
14500.500	49.22	-28.60	42.50	35.32	74.00	24.78	н
12585.000	48.63	-31.00	39.00	40.73	74.00	25.37	V
8527.000	44.08	-34.10	37.90	40.38	74.00	29.92	V
7987.000	43.54	-34.80	37.10	41.24	74.00	30.46	V
2485.700	66.06	-20.00	28.30	57.76	74.00	7.94	V





Average Measurement results

GFSK Ch 0

	Measurement	Cable	Antenna	Receiver			Antenna
Frequency	Result	loss	Factor	Reading	Limit	Margin	Pol.
(MHz)	(dBµV/m)	(dB)	(dB/m)	(dBµV)	(dBµV/m)	(dB)	(H/V)
17979.500	43.87	-25.50	46.70	22.67	54.00	10.13	Н
14985.000	40.25	-27.90	40.20	27.85	54.00	13.75	н
12560.000	40.23	-31.00	39.00	32.33	54.00	13.77	V
7971.000	34.57	-34.80	37.10	32.27	54.00	19.43	V
8152.000	34.45	-34.60	37.30	31.65	54.00	19.55	V
2387.200	46.23	-20.00	28.10	38.23	54.00	7.77	V

GFSK Ch 39

	Measurement	Cable	Antenna	Receiver			Antenna
Frequency	Result	loss	Factor	Reading	Limit	Margin	Pol.
(MHz)	(dBµV/m)	(dB)	(dB/m)	(dBµV)	(dBµV/m)	(dB)	(H/V)
17959.500	44.42	-25.50	46.70	23.22	54.00	9.58	V
12560.000	40.53	-31.00	39.00	32.63	54.00	13.47	Н
14884.500	40.11	-28.60	40.80	27.91	54.00	13.89	Н
8178.000	34.33	-35.20	37.40	32.03	54.00	19.67	Н
7999.500	33.95	-34.80	37.10	31.65	54.00	20.05	V
4855.500	29.65	-37.50	33.10	33.95	54.00	24.35	V

GFSK Ch 78

	Measurement	Cable	Antenna	Receiver			Antenna
Frequency	Result	loss	Factor	Reading	Limit	Margin	Pol.
(MHz)	(dBµV/m)	(dB)	(dB/m)	(dBµV)	(dBµV/m)	(dB)	(H/V)
17946.500	44.07	-25.50	46.70	22.87	54.00	9.93	Н
14516.500	40.43	-28.60	42.50	26.53	54.00	13.57	V
12559.000	40.19	-31.00	39.00	32.29	54.00	13.81	V
8497.000	34.45	-34.10	37.90	30.75	54.00	19.55	Н
7980.000	33.79	-34.80	37.10	31.49	54.00	20.21	V
2485.100	50.66	-20.00	28.30	42.36	54.00	3.34	V





$\pi/4$ DQPSK Ch 0

	Measurement	Cable	Antenna	Receiver			Antenna
Frequency	Result	loss	Factor	Reading	Limit	Margin	Pol.
(MHz)	(dBµV/m)	(dB)	(dB/m)	(dBµV)	(dBµV/m)	(dB)	(H/V)
17950.500	44.17	-25.50	46.70	22.97	54.00	9.83	Н
14836.000	40.69	-28.60	40.80	28.49	54.00	13.31	V
12563.000	40.27	-31.00	39.00	32.37	54.00	13.73	Н
8027.000	34.55	-34.70	37.20	32.05	54.00	19.45	Н
7988.500	34.14	-34.80	37.10	31.84	54.00	19.86	V
2386.700	46.13	-20.00	28.10	38.13	54.00	7.87	V

$\pi/4$ DQPSK Ch 39

	Measurement	Cable	Antenna	Receiver			Antenna
Frequency	Result	loss	Factor	Reading	Limit	Margin	Pol.
(MHz)	(dBµV/m)	(dB)	(dB/m)	(dBµV)	(dBµV/m)	(dB)	(H/V)
17954.500	44.07	-25.50	46.70	22.87	54.00	9.93	V
14767.000	40.24	-28.30	41.30	27.24	54.00	13.76	Н
12568.000	40.08	-31.00	39.00	32.18	54.00	13.92	V
9573.500	34.93	-33.10	38.00	30.03	54.00	19.07	V
7996.500	33.85	-34.80	37.10	31.55	54.00	20.15	V
4605.500	29.60	-37.30	32.70	34.30	54.00	24.40	Н

$\pi/4$ DQPSK Ch 78

	Measurement	Cable	Antenna	Receiver			Antenna
Frequency	Result	loss	Factor	Reading	Limit	Margin	Pol.
(MHz)	(dBµV/m)	(dB)	(dB/m)	(dBµV)	(dBµV/m)	(dB)	(H/V)
17943.500	43.74	-25.50	46.70	22.54	54.00	10.26	V
12568.000	40.51	-31.00	39.00	32.61	54.00	13.49	V
14977.000	40.43	-27.90	40.20	28.03	54.00	13.57	Н
8494.000	34.36	-34.10	37.90	30.66	54.00	19.64	V
7984.000	33.96	-34.80	37.10	31.66	54.00	20.04	Н
2485.300	49.98	-20.00	28.30	41.68	54.00	4.02	V





8DPSK Ch 0

	Measurement	Cable	Antenna	Receiver			Antenna
Frequency	Result	loss	Factor	Reading	Limit	Margin	Pol.
(MHz)	(dBµV/m)	(dB)	(dB/m)	(dBµV)	(dBµV/m)	(dB)	(H/V)
17958.000	44.34	-25.50	46.70	23.14	54.00	9.66	Н
15000.000	40.58	-27.90	40.20	28.18	54.00	13.42	Н
12556.000	40.18	-31.00	39.00	32.28	54.00	13.82	V
8497.500	34.60	-34.10	37.90	30.90	54.00	19.40	Н
7995.500	34.06	-34.80	37.10	31.76	54.00	19.94	V
2382.300	46.28	-20.00	28.10	38.28	54.00	7.72	V

8DPSK Ch 39

	Measurement	Cable	Antenna	Receiver			Antenna
Frequency	Result	loss	Factor	Reading	Limit	Margin	Pol.
(MHz)	(dBµV/m)	(dB)	(dB/m)	(dBµV)	(dBµV/m)	(dB)	(H/V)
17935.000	43.82	-25.50	46.70	22.62	54.00	10.18	Н
14745.500	40.58	-28.30	41.30	27.58	54.00	13.42	Н
12550.000	40.02	-31.00	39.00	32.12	54.00	13.98	V
8213.000	34.25	-35.20	37.40	31.95	54.00	19.75	V
7998.500	33.68	-34.80	37.10	31.38	54.00	20.32	Н
4799.000	29.42	-37.30	33.00	33.62	54.00	24.58	Н

8DPSK Ch 78

	Measurement	Cable	Antenna	Receiver			Antenna
Frequency	Result	loss	Factor	Reading	Limit	Margin	Pol.
(MHz)	(dBµV/m)	(dB)	(dB/m)	(dBµV)	(dBµV/m)	(dB)	(H/V)
17949.500	43.99	-25.50	46.70	22.79	54.00	10.01	V
14862.000	40.21	-28.60	40.80	28.01	54.00	13.79	V
12587.500	40.18	-31.00	39.00	32.28	54.00	13.82	Н
8296.000	34.49	-35.00	37.60	31.89	54.00	19.51	V
7985.500	33.97	-34.80	37.10	31.67	54.00	20.03	V
2485.700	49.83	-20.00	28.30	41.53	54.00	4.17	V

Conclusion: Pass

Sample calculation: 17949.500 MHz

 $\label{eq:Peak ERP(dBm) = P_{Mea}(22.79 dBuV/m) + Cable Loss(-25.50) + Antenna Factor(46.70) = 43.99 \\ dBuV/m$





B.7. Time of Occupancy (Dwell Time)

Method of Measurement: See ANSI C63.10-clause 7.8.4

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

- Span = zero span, centered on a hopping channel
- RBW = 1 MHz
- VBW ≥ RBW
- Sweep = as necessary to capture the entire dwell time per hopping channel
- Detector function = peak
- Trace = max hold

Measure a pulse time in time domain at middle frequency and then count the hopping number in 31.6s(which equals with 0.4 multiply 79) of middle frequency ,then multiply the pulse time and hopping number and record them.

Measurement Limit:

Standard	Limit (ms)
FCC 47 CFR Part 15.247(a) (1)(iii)	< 400

Measurement Result:

For GFSK

Channel	Packet	Pulse time (ms)		Number of Transmissions		Dwell Time (ms)	Conclusion
	DH1	Fig.64	0.38	Fig.65	320	121.6	Р
39	DH3	Fig.66	1.63	Fig.67	99	161.37	Р
	DH5	Fig.68	2.88	Fig.69	73	210.24	Р

For $\pi/4$ DQPSK

Channel	Packet	Pulse time (ms)		Number of Transmissions		Dwell Time (ms)	Conclusion
	2DH1	Fig.70	0.38	Fig.71	321	121.98	Р
39	2DH3	Fig.72	1.64	Fig.73	107	175.48	Р
	2DH5	Fig.74	2.88	Fig.75	61	175.68	Р





For 8DPSK

Channel	Packet	Pulse time (ms)		Number of Transmissions		Dwell Time (ms)	Conclusion
	3DH1	Fig.76	0.38	Fig.77	320	121.6	Р
39	3DH3	Fig.78	1.63	Fig.79	97	158.11	Р
	3DH5	Fig.80	2.89	Fig.81	74	213.86	Р

Conclusion: PASS



Fig.64. Time of occupancy (Dwell Time): Channel 39, Packet DH1







Fig.65. Number of Transmissions Measurement: Channel 39, Packet DH1



Fig.66. Time of occupancy (Dwell Time): Channel 39, Packet DH3







Fig.67. Number of Transmissions Measurement: Channel 39, Packet DH3



Fig.68. Time of occupancy (Dwell Time): Channel 39, Packet DH5







Fig.69. Number of Transmissions Measurement: Channel 39, Packet DH5



Fig.70. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH1







Fig.71. Number of Transmissions Measurement: Channel 39, Packet 2-DH1



Fig.72. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH3







Fig.73. Number of Transmissions Measurement: Channel 39, Packet 2-DH3



Fig.74. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH5







Fig.75. Number of Transmissions Measurement: Channel 39, Packet 2-DH5



Fig.76. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH1







Fig.77. Number of Transmissions Measurement: Channel 39, Packet 3-DH1



Fig.78. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH3







Fig.79. Number of Transmissions Measurement: Channel 39, Packet 3-DH3



Fig.80. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH5







Fig.81. Number of Transmissions Measurement: Channel 39, Packet 3-DH5





B.8. 20dB Bandwidth

Method of Measurement: See ANSI C63.10-clause 6.9.2

Measurement Procedure - Unwanted Emissions

- 1. Set RBW = 30kHz.
- 2. Set VBW = 100 kHz.
- 3. Set span to 3MHz
- 4. Detector = peak.
- 5. Trace Mode = max hold.
- 6. Sweep = auto couple.

7. Allow the trace to stabilize (this may take some time, depending on the extent of the span).

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a)(1)	NA *

Use NdB Down function of the SA to measure the 20dB Bandwidth

* Comment: This test case is not required according to the latest FCC 47 CFR Part 15.247. But the test results are necessary for "carrier frequency separation" test case, in Annex A.8.

Measurement Results:

For **GFSK**

Channel	20dB Band	Conclusion	
0	Fig.82	944.25	NA
39	Fig.83	939.00	NA
78	Fig.84	945.75	NA

For π/4 DQPSK

Channel	20dB Band	Conclusion	
0	Fig.85	1254.75	NA
39	Fig.86	1224.00	NA
78	Fig.87	1258.50	NA

For 8DPSK

Channel	20dB Band	Conclusion	
0	Fig.88	1259.25	NA
39	Fig.89	1206.00	NA
78	Fig.90	1261.50	NA

Conclusion: NA











Fig.83. 20dB Bandwidth: GFSK, Channel 39







Fig.84. 20dB Bandwidth: GFSK, Channel 78



Fig.85. 20dB Bandwidth: π/4 DQPSK, Channel 0







Fig.86. 20dB Bandwidth: π/4 DQPSK, Channel 39



Fig.87. 20dB Bandwidth: $\pi/4$ DQPSK, Channel 78











Fig.89. 20dB Bandwidth: 8DPSK, Channel 39







Fig.90. 20dB Bandwidth: 8DPSK, Channel 78





B.9. Carrier Frequency Separation

Method of Measurement: See ANSI C63.10-clause 7.8.2

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

- Span = 3MHz
- RBW=300kHz
- VBW=300kHz
- Sweep = auto
- Detector function = peak
- Trace = max hold
- Allow the trace to stabilize

Search the peak marks of the middle frequency and adjacent channel, then record the separation between them.

* Comment: This limit should be over 25 kHz or (2/3) * 20dB bandwidth, whichever is greater.

Measurement Limit:

Standard	Limit(kHz)
FCC 47 CFR Part 15.247(a)(1)	over 25 kHz or (2/3) * 20dB bandwidth

Measurement Result:

For **GFSK**

Channel	Carrier frequency	Conclusion				
39	Fig.91	Р				
For π/4 DQPSK						
Ob an a al		O a mali valia m				

Channel	Carrier frequency	Conclusion	
39	Fig.92	999.75	Р

For 8DPSK

Channel	Carrier frequency	Conclusion	
39	Fig.93	1146.00	Р

Conclusion: PASS







Fig.91. Carrier frequency separation measurement: GFSK, Channel 39



Fig.92. Carrier frequency separation measurement: $\pi/4$ DQPSK, Channel 39







Fig.93. Carrier frequency separation measurement: 8DPSK, Channel 39





B.10. Number of Hopping Channels

Method of Measurement: See ANSI C63.10-clause 7.8.3

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

- Span = the frequency band of operation
- RBW = 500kHz
- VBW = 500kHz
- Sweep = auto
- Detector function = peak
- Trace = max hold
- Allow the trace to stabilize

It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a) (1)(iii)	At least 15 non-overlapping channels

Measurement Result:

For **GFSK**

Channel	Number of hop	Conclusion	
0~39	Fig.94	70	Р
40~78	Fig.95	19	

Form/4 DQPSK

Channel	Number of hop	Conclusion	
0~39	Fig.96	70	D
40~78	Fig.97		Г Г

For 8DPSK

Channel	Number of hop	Conclusion	
0~39	Fig.98		D
40~78	Fig.99	19	P

Conclusion: PASS







Fig.94. Number of hopping frequencies: GFSK, Channel 0 - 39



Fig.95. Number of hopping frequencies: GFSK, Channel 40 - 78







Fig.96. Number of hopping frequencies: $\pi/4$ DQPSK, Channel 0 - 39



Fig.97. Number of hopping frequencies: $\pi/4$ DQPSK, Channel 40 - 78







Fig.98. Number of hopping frequencies: 8DPSK, Channel 0 - 39



Fig.99. Number of hopping frequencies: 8DPSK, Channel 40 - 78





B.11. AC Powerline Conducted Emission

Method of Measurement: See ANSI C63.10-clause 6.2

Setup:

A stand-alone EUT shall be placed in the center along the back edge of the tabletop. For multiunit tabletop systems, the EUT shall be centered laterally (left to right facing the tabletop) on the tabletop and its rear shall be flush with the rear of the table.

Accessories that are part of an EUT system tested on a tabletop shall be placed in a test arrangement on one or both sides of the host with a 10 cm separation between the nearest points of the cabinets. The rear of the host and accessories shall be flush with the back of the supporting tabletop unless that would not be typical of normal use. If more than two accessories are present, then an equipment test arrangement shall be chosen that maintains 10 cm spacing between cabinets unless the equipment is normally located closer together.



Exploratory ac power-line conducted emission measurements

Exploratory measurements shall be used to identify the frequency of the emission that has the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable positions, and with a typical system equipment configuration and arrangement. For each mode of operation and for each ac power current-carrying conductor, cable manipulation shall be performed within the range of likely configurations. For this measurement or series of measurements, the frequency spectrum of interest shall be monitored looking for the emission that has the highest amplitude relative to the limit. Once that emission is found for each current-carrying conductor of each power cord associated with the EUT (but not the cords ©Copyright. All rights reserved by CTTL. Page 90 of 96.





associated with non-EUT equipment in the overall system), the one configuration and arrangement and mode of operation that produces the emission closest to the limit over all of the measured conductors shall be recorded.

Final ac power-line conducted emission measurements

Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT. If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation. If the EUT is composed of equipment units that have their own separate ac power connections (e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network), then each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be measured separately. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit: EUT ID: UT51a

Bluetooth (Quasi-peak Limit)

		Result (dBμV) With charger TN-050120U9		
Frequency range	Quasi-peak			Conclusion
(1112)		bluetooth	Idle	
0.15 to 0.5	66 to 56			
0.5 to 5	56	Fig.B.11.1	Fig.B.11.2	Р
5 to 30	60			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.45 MI is to				

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Bluetooth (Average Limit)

		Result (dBμV)		
(MU-)		With charger	TN-050120U8	Conclusion
(10112)	(αρμν)	bluetooth	Idle	
0.15 to 0.5	56 to 46			
0.5 to 5	46	Fig.B.11.1	Fig.B.11.2	Р
5 to 30	50			





NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Bluetooth (Quasi-peak Limit)

Frequency range	equency range Quasi-peak Result (dBµV) (MHz) Limit (dBµV)		Conclusion	
	εππ (ασμν)	bluetooth	Idle	
0.15 to 0.5	67 to 56			
0.5 to 5	56	Fig.B.11.3	/	Р
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Bluetooth (Average Limit)

		Result (dBμV)		
		With charger TN-050120U8		Conclusion
	(ασμν)	bluetooth	ldle	
0.15 to 0.5	56 to 46			
0.5 to 5	46	Fig.B.11.3	/	Р
5 to 30	50			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz				

to 0.5 MHz.

Conclusion: Pass









Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Frequency	QuasiPeak	Line	Corr.	Margin	Limit		
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)		
0.154000	40.1	Ν	19.8	25.7	65.8		
0.370000	27.4	N	19.8	31.1	58.5		
0.622000	39.0	L1	19.6	17.0	56.0		
1.246000	35.5	L1	19.7	20.5	56.0		
1.298000	34.0	L1	19.7	22.0	56.0		
3.582000	33.2	L1	19.6	22.8	56.0		
			1				

Final Result 1

Final Result 2

Frequency	Average	Line	Corr.	Margin	Limit
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)
0.370000	27.8	L1	19.8	20.7	48.5
0.570000	36.4	L1	19.7	9.6	46.0
1.246000	31.9	L1	19.7	14.1	46.0
1.346000	29.4	L1	19.7	16.6	46.0
2.394000	25.1	L1	19.6	20.9	46.0
4.782000	23.1	L1	19.6	22.9	46.0







Fig.B.11.2 AC Powerline Conducted Emission-Idle, charger TN-050120U9

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Frequency	QuasiPeak	Line	Corr.	Margin	Limit	
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)	
0.158000	40.5	Ν	19.6	25.1	65.6	
0.622000	39.2	L1	19.6	16.8	56.0	
1.246000	35.6	L1	19.7	20.4	56.0	
1.298000	34.8	L1	19.7	21.2	56.0	
2.338000	34.7	L1	19.6	21.4	56.0	
3.790000	31.6	L1	19.5	24.4	56.0	

Final Result 1

Final Result 2

Frequency	Average	Line	Corr.	Margin	Limit
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)
0.370000	26.8	L1	19.8	21.7	48.5
0.622000	36.5	L1	19.6	9.5	46.0
1.246000	31.6	L1	19.7	14.4	46.0
1.714000	30.1	L1	19.6	15.9	46.0
2.338000	28.1	L1	19.6	17.9	46.0
4.826000	25.4	L1	19.6	20.6	46.0









Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Frequency	QuasiPeak	Line	Corr.	Margin	Limit
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)
0.214000	41.1	Ν	19.7	21.9	63.0
0.494000	45.4	Ν	19.8	10.7	56.1
0.978000	42.0	L1	19.8	14.0	56.0
1.306000	38.4	Ν	19.6	17.6	56.0
3.266000	36.1	Ν	19.6	19.9	56.0
4.298000	34.3	L1	19.6	21.7	56.0

Final Result 2

Frequency	Average	Line	Corr.	Margin	Limit
(MHz)	(dBµV)		(dB)	(dB)	(dBµV)
0.202000	32.3	L1	19.8	21.3	53.5
0.486000	34.1	L1	19.8	12.1	46.2
0.914000	29.9	L1	19.7	16.1	46.0
1.306000	27.6	Ν	19.6	18.4	46.0
2.366000	26.6	L1	19.6	19.4	46.0
4.678000	24.6	L1	19.6	21.4	46.0





ANNEX C: Accreditation Certificate



END OF REPORT