Issue date: 27 August 2026
Valid until: 11 February 2028

NO: SAMM 634
(Issue 3, 27 August 2026 replacement of
SAMM 634 dated, 19 November 2024

LABORATORY LOCATION/ CENTRAL OFFICE:	**EM TEST (M) SDN. BHD. 4TH FLOOR, WISMA SAMUDRA 1, JALAN KONTRAKTOR U1/14 HICOM-GLENMARIE INDUSTRIAL PARK 40150 SHAH ALAM SELANGOR, MALAYSIA**
ACCREDITED SINCE:	**11 FEBRUARY 2014**
FIELD OF CALIBRATION:	**ELECTRICAL**

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

CENTRAL LOCATION:	**EM TEST (M) SDN. BHD. 4TH FLOOR, WISMA SAMUDRA 1, JALAN KONTRAKTOR U1/14 HICOM-GLENMARIE INDUSTRIAL PARK 40150 SHAH ALAM SELANGOR, MALAYSIA**
FIELD OF CALIBRATION:	**ELECTRICAL**

SCOPE OF CALIBRATION: ELECTRICAL

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (±)*	Remarks
Generating & Sourcing Equipment			
DC Voltage	0 mV to 100 mV 100 mV to 1 V 1 V to 10V 10 V to 100 V 100 V to 1000 V	0.03 mV/V + 3.5 µV 0.025 mV/V + 8.65 µV 0.025 mV/V + 0.08 mV 0.04 mV/V + 0.95 mV 0.04 mV/V + 10.6 mV	Direct measurement with 6 ½ digit multimeter

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SCOPE OF CALIBRATION: ELECTRICAL

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (±)*	Remarks
DC High Voltage	0 V to 100 V 100 V to 1000 V 1000 V to 8 kV 8 kV to 15 kV 15 kV to 30 kV	0.6 mV/V 0.1 mV/V 0.4 mV/V 0.2 mV/V 0.1 mV/V	Direct measurement with High Voltage Probe and 6 ½ digit multimeter
AC Voltage	0 mV to 750 V	Refer Matrix A	Direct measurement with 6 ½ digit multimeter

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SCOPE OF CALIBRATION: ELECTRICAL

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (±)*	Remarks
<u>Generating & Sourcing Equipments</u> DC Current	0 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 3 A	0.45 mA/A + 7.6 nA 0.45 mA/A + 5.8 nA 0.45 mA/A + 0.07 µA 0.2 mA/A + 0.66 µA 0.2 mA/A + 8.52 µA 0.4 mA/A + 0.08 mA 0.5 mA/A + 0.23 mA	Direct measurement with 6 ½ digit multimeter
	0.1 A to 100 A	0.07 mA/A + 4.2 mA	Direct measurement with DC current shunt and 6 ½ digit multimeter
AC Current	<u>0 A to 1 A</u> 3 Hz to 5 Hz 5 Hz to 10 Hz 10 Hz to 5 kHz <u>1 A to 3 A</u> 3 Hz to 5 Hz 5 Hz to 10 Hz 10 Hz to 5 kHz <u>1 mA to 10 mA</u> 3 Hz to 5 kHz 5 kHz to 10 kHz <u>10 mA to 100 mA</u> 3 Hz to 5 kHz 5 kHz to 10 kHz <u>100 mA to 1 A</u> 3 Hz to 5 kHz 5 kHz to 10 kHz <u>1 A to 3 A</u> 3 Hz to 5 kHz 5 kHz to 10 kHz	1 mA/A + + 0.07 µA 1.5 mA/A + + 0.07 µA 1 mA/A + + 0.72 µA 1.5 mA/A + + 1.17 µA 1 mA/A + + 7.2 µA 1.5 mA/A + + 11.7 µA 1 mA/A + 0.07 mA 1.5 mA/A + 0.12 mA 1 mA/A + 0.8 mA 1.5 mA/A + 0.1 mA 1.5 mA/A + 2.3 mA 1.5 mA/A + 2.4 mA	Direct measurement with 6 ½ digit multimeter
	<u>1 A to 50 A</u> 10 Hz to 10 kHz <u>10 A to 50 A</u> 30 kHz to 300 kHz	17 mA/A 21 mA/A	Direct measurement with current probe and 6 ½ digit multimeter

SCOPE OF CALIBRATION: ELECTRICAL

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (±)*	Remarks
<u>Generating & Sourcing Equipments</u> Frequency	3 Hz to 5 Hz 5 Hz to 10 Hz 10 Hz to 40 Hz 40 Hz to 300 kHz	1 mHz/Hz + 0.1 mHz 0.3 mHz/Hz + 0.1 mHz 0.1 mHz/Hz + 0.5 mHz 0.1 mHz/Hz + 10 mHz	Direct measurement with 6 ½ digit multimeter
	0.2 Hz to 10 kHz 10 kHz to 10 MHz 10 MHz to 2 GHz	0.037 mHz/Hz 0.1 mHz/Hz 0.054 mHz/Hz	Direct measurement with 2 GHz oscilloscope
DC Resistance	0 to 100 Ω 100 Ω to 1 kΩ 1 kΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ	0.09 mΩ/Ω + 0.13 mΩ 0.09 mΩ/Ω + 0.35 mΩ 0.09 mΩ/Ω + 2.76 mΩ 0.08 mΩ/Ω + 15.3 mΩ 0.08 mΩ/Ω + 0.14 Ω 0.08 mΩ/Ω + 1.8 Ω 0.1 mΩ/Ω + 21.9 Ω 0.4 mΩ/Ω + 0.45 kΩ 2 mΩ/Ω + 3 kΩ	Direct measurement with 6 ½ digit multimeter
ESD Voltage (DC) Current Peak Current Rise time	100 V to 30 kV 0 A to 120 A Current @ 30 ns Current @ 60 ns Current @ 60-800 ns 500 ps to 1 µs	1.2 mV/V 35 mA/A 35 mA/A 37 mA/A 38 mA/A 84 ps	With reference to IEC 61000-4-2 clause 6.3, ISO 10605 clause A2
Burst into 50 Ω Voltage (Normal mode) Voltage (Common mode) Rise Time Pulse Duration Repetition Frequency	20 V to 8000 V 20 V to 8000 V 1 ns to 1 µs 10 ns to 10 µs 1 Hz to 1 MHz	47 mV/V 66 mV/V 0.12 ns 0.45 ns 0.10 mHz/Hz	With reference to IEC 61000-4-4 clause 6.1.2 & 6.2.2, ISO 7637-2 Annex C

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SCOPE OF CALIBRATION: ELECTRICAL

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (±)*	Remarks
Burst into 1000 Ω Voltage (Normal mode) Voltage (Common mode) Rise Time Pulse Duration Repetition Frequency	 20 V to 8000 V 25 V to 1000 V 1 ns to 1 µs 10 ns to 10 µs 1 Hz to 1 MHz	 44 mV/V 66 mV/V 0.12 ns 0.94 ns 0.10 mHz/Hz	With reference to IEC 61000-4-4 clause 6.1.2, ISO 7637-2 Annex C
Surge pulses µs range Voltage Rise Time (Voltage) Rise Time (Current) Pulse Duration (Voltage) Pulse Duration (Current) Current	 25 V to 7000 V 1000 V to 20000 V 100 ns to 100 µs 100 ns to 100 µs 1 µs to 6000 µs 1 µs to 6000 µs 1 A to 100 A 100 A to 6000 A	 18 mV/V 18 mV/V 3.7 ns 8.8 ns 9.4 ns 17 ns 29 mA/A 25 mA/A	With reference to IEC 61000-4-5clause 6.1.2, 6.2.2 ISO 7637-2 Annex C
Surge pulses ms range Voltage Rise Time Pulse Duration Current	 10 V to 1100 V 50 µs to 50 ms 1000 µs to 2000 ms 1 A to 5000 A	 18 mV/V 10 µs 68 µs 25 mA/A	With reference to ISO 16750-2 Annex A
Generating & Sourcing Equipments **Ring wave** Voltage Current Rise Time (Voltage) Rise Time (Current) Frequency	 200 V to 6000 V 5.3 A to 500 A 0.1 µs to 5 µs 0.1 µs to 5 µs 0.2 Hz to 250 kHz	 20 mV/V 25 mA/A 9.3 ns 2.4 ns 0.022 mHz/Hz	With reference to ANSI C62.41 clause 9.4.1 IEC 61000-4-12 Annex A.4 IEC 61000-4-18
Voltage dips & interruption Voltage (cont.) (with or without load) Peak Voltage (Overshoot) (100 Ω load) Rise Time/Fall Time (100 Ω load) Current (100 Ω load) Peak Current (Inrush) Phase	 -400 V to 400 V -20 V to 270 V 0.1 µs to 10 µs 10 A to 50 A 200 A to 1000 A 0 ° to 360 °	 1.9 mV/V 20 mV/V 17 ns 23 mA/A 27 mA/A 0.14 °	With reference to IEC 61000-4-11 clause 6.1.2

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Matrix A: AC Voltage Measurement

Range	Frequency (kHz)					
	0.003 to 0.005	**0.005 to 0.01**	**0.01 to 20**	**20 to 50**	**50 to 100**	**100 to 300**
0 to 100 mV	10 + 0.04	3.5 + 0.04	0.6 + 0.04	1.2 + 0.05	6 + 0.09	40 + 0.5
100 mV to 1 V	10 + 0.3	3.5 + 0.31	0.6 + 0.31	1.2 + 0.51	6 + 0.81	40 + 5
1 V to 10 V	10 + 3.1	3.5 + 3.1	0.6 + 3.1	1.2 + 5.1	6 + 8.1	40 + 52
10 V to 100 V	10 + 0.031	3.5 + 0.031	0.6 + 0.031	1.2 + 0.051	6 + 0.083	40 + 0.5
100 V to 750 V	10 + 0.23	3.5 + 0.23	0.6 + 0.23	1.2 + 0.38	6 + 0.6	40 + 3.8**

The expanded uncertainties given at above table expressed in (mV/V + mV) for the 100 mV, 1V and 10 V ranges, and in (mV/V + V) for the 100 V and 750 V ranges.
**Limited to 8 x 10^7 Volt-Hz.

SCOPE OF CALIBRATION: ELECTRICAL

Instrument Calibrated/ Measurement Parameter	**Range**	**Calibration and Measurement Capability Expressed as an Uncertainty (±)***	**Remarks**
Generating & Sourcing Equipments			Direct measurement with LCR meter
Capacitance	**100 Hz & 120 Hz**		
	200 pF to 2000 pF	2.7 pF	
	2 nF to 20 nF	20 pF	
	20 nF to 200 nF	0.13 nF	
	200 nF to 2000 nF	1.3 nF	
	1 kHz		
	20 pF to 200 pF	0.25 pF	
	200 pF to 2000 pF	2.2 pF	
	2 nF to 20 nF	13 pF	
	20 nF to 200 nF	0.13 nF	
	200 nF to 2000 nF	1.3 nF	
Inductance	**100 Hz & 120 Hz**		
	200 µH to 2000 µH	2.9 µH	
	2 mH to 20 mH	19 µH	
	20 mH to 200 mH	0.18 mH	
	200 mH to 2000 mH	1.3 mH	
	2 H to 20 H	41 mH	
	1 kHz		
	20 µH to 200 µH	0.29 µH	
	200 µH to 2000 µH	1.8 µH	
	2 mH to 20 mH	15 µH	
	20 mH to 200 mH	0.13 mH	
	200 mH to 2000 mH	1.3 mH	
	2 H to 20 H	44 mH	

SCOPE OF CALIBRATION: ELECTRICAL - RF & MICROWAVE (50 Ohm SYSTEM)

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (±)*	Remarks
RF Sourcing/Generating Instruments			
RF Level	**DC to 18 GHz** **+20 dBm to -30 dBm**		
	DC to 100 MHz 100 MHz to 2 GHz 2 GHz to 8 GHz 8 GHz to 12 GHz 12 GHz to 18 GHz	0.05 dB 0.05 dB 0.06 dB 0.07 dB 0.10 dB	Direct measurement via NRP18T Power Sensor
	8 kHz t0 18 GHz **+20 dBm to -45 dBm**		
	8 kHz to 4 GHz 4 GHz to 8 GHz 8 GHz to 12 GHz 12 GHz to 18 GHz	0.06 dB 0.07 dB 0.08 dB 0.11 dB	Direct measurement via NRP18A Power Sensor
Tuned RF Level	**8 kHz to 18000 MHz** +20 dBm to -120 dBm	Refer Matrix B	Direct measurement via FSMR26 Measuring Receiver and Power Sensor
AM Mod. Depth	**(+23 dBm to -40 dBm)**		
	fc : 100 kHz to 10 MHz fm : 20 Hz to 10 kHz Depth : 5 % to 99 %	0.015 % / %	Direct Measurement via FSMR26 Measuring Receiver fc = Carrier Frequency fm = Modulation Rate
	fc : 10 MHz to 18 GHz fm : 20 Hz to 50 kHz Depth : 5 % to 99 %	0.010 % / %	
	fc : 10 MHz to 18 GHz fm : 50 kHz to 100 kHz Depth : 5 % to 99 %	0.015% / %	

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SCOPE OF CALIBRATION: ELECTRICAL - RF & MICROWAVE (50 Ohm SYSTEM)

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (±)*	Remarks
RF Sourcing/Generating Instruments			
FM Mod. Deviation	**(+23 dBm to -40 dBm)**		
	fc : 100 kHz to 10 MHz fm :20 Hz to 50 kHz Δf = 20 Hz to 50 kHz	9.8 mHz/Hz + 12 mHz	Direct Measurement via Measuring Receiver FSMR26 fc = Carrier Frequency fm = Modulation Rate Δf = Peak Deviation
	fc : 10 MHz to 1 GHz fm : 20 Hz to 100 kHz Δf = 20 Hz to 5 MHz	9.8 mHz/Hz + 88 mHz	
	fc : 1 GHz to 18 GHz fm : 20 Hz to 100 kHz Δf = 20 Hz to 5 MHz	9.8 mHz/Hz + 0.2 Hz	
	fc : 10 MHz to 1 GHz fm : 100 kHz to 5 MHz Δf = 20 Hz to 5 MHz	29 mHz/Hz + 1 Hz	
	fc : 1 GHz to 18 GHz fm : 100 kHz to 5 MHz Δf = 20 Hz to 5 MHz	29 mHz/Hz + 1 Hz	
Phase Mod. Deviation	**(+23 dBm to -40 dBm)**	9.9 mrad/rad + 1 mrad	Direct Measurement via Measuring Receiver FSMR26 fc = Carrier Frequency fm = Modulation Rate Δφ = Peak Deviation

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Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (±)*	Remarks
RF Sourcing/Generating Instruments Harmonics Content	**Fundamental Frequency** 0.1 MHz to 9 GHz 0 to 10 dBm **Harmonics Frequency** 0.2 MHz to 18 GHz -100 dBm to 0 dBm	2.0 dB	Direct Measurement via Measuring Receiver FSMR26
RF Frequency	20 Hz to 18 GHz	50 pHz/Hz + 56 mHz	Direct Measurement via Measuring Receiver FSMR26 locked to GPS Reference Standard
RF Receiving Instruments RF Level	**8 kHz to 18 GH** **0 dBm to -45dB** 8 kHz to 2 GHz 2 GHz to 4 GHz 4 GHz to 7 GHz 7 GHz to 8 GHz 8 GHz to 8.5 GHz 8.5 GHz to 12.5 GHz 12.5 GHz to 18 GHz	 0.09 dB 0.10 dB 0.13 dB 0.14 dB 0.19 dB 0.21 dB 0.22 dB	SMA100B Signal Generator corrected Via Power Sensor and Power Splitter
RF Frequency	8 kHz to 18 GHz	50 pHz/Hz + 56 mHz	Sourcing via SMA100B Signal Generator locked to GPS Reference Standard
Relative Attenuation/ Relative RF Level	**8 kHz to 1 GHz** **(0 dB to 100 dB, 1 dB step)** Attenuation 0 to 9 dB Attenuation 10 dB to 100 dB	 0.09 dB 0.07 dB	Sourcing via SMA100B Signal Generator and Step Attenuator

SCOPE OF CALIBRATION: ELECTRICAL - RF & MICROWAVE (50 Ohm SYSTEM)

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (±)*	Remarks
RF Receiving Instruments Response of EMI Detectors Peak, Quasi-Peak, Average, RMS (Absolute)	**Band A** (9 kHz to 150 kHz) **PRF = 0.1 Hz to 200 Hz** Level 10 dBµV to 70 dBµV	0.63 dB	Via IGUU 2918, SMA100B PRF = pulse repetitive Frequency EMI receiver calibration with reference to CISPR 16-1-1
	PRF = 200 Hz to 2000 Hz Level 60 dBµV	0.88 dB	
	Band B (0.15 MHz to 30 MHz) **PRF: 0.1 Hz to 200 Hz** Level 10 dBµV to 70 dBµV	0.63 dB	
	PRF = 200 Hz to 50 kHz Level 60 dBµV	0.88 dB	
	Band C/D (30 MHz to 1000 MHz) **PRF = 0.1 Hz to 200 Hz** Level 0 dBµV to 60 dBµV	0.63 dB	
	PRF = 200 Hz to 1000 kHz Level 40 dBµV	0.88 dB	

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SCOPE OF CALIBRATION: ELECTRICAL - RF & MICROWAVE (50 Ohm SYSTEM)

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (±)*	Remarks
RF Receiving Instruments Response of EMI Detectors Peak, Quasi-Peak, Average, RMS (Relative to PRF)	**Band A** (9 kHz to 150 kHz) **PRF = 0.1 Hz to 200 Hz** Level 10 dBµV to 70 dBµV **PRF = 200 Hz to 2000 Hz** Level 60 dBµV **Band B** (0.15 MHz to 30 MHz) **PRF: 0.1 Hz to 200 Hz** Level 10 dBµV to 70 dBµV **PRF = 200 Hz to 50 kHz** Level 60 dBµV **Band C/D** (30 MHz to 1000 MHz) **PRF = 0.1 Hz to 200 Hz** Level 0 dBµV to 60 dBµV **PRF = 200 Hz to 1000 kHz** Level 40 dBµV	0.17 dB	Via IGUU 2918, SMA100B PRF = pulse repetitive Frequency EMI receiver calibration with reference to CISPR 16-1-1
Scattering Parameters Reflection Coefficient, Γ (S11, S22)	9 kHz to 8.5 GHz $-1 \le Re\{\Gamma\} \le 1$ $-1 \le Im\{\Gamma\} \le 1$ constrained by: $0 \le \lvert\Gamma\rvert \le 1$ **9 kHz to 100 kHz** 0 to 0.1 0.1 to 0.2 0.2 to 0.3 0.3 to 0.4 0.4 to 0.5 0.5 to 0.6 0.6 to 0.7 0.7 to 0.8 0.8 to 0.9 0.9 to 1	0.005 0.005 0.006 0.007 0.008 0.009 0.011 0.014 0.017 0.02	Direct Measurement Via Vector Network Analyzer ZNB8 and Calibration Kit ZV-Z270 With reference to CISPR-16-1-1 / 2 / 3, ANSI C63.4 and IEC 61000-4-6 See note A

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SCOPE OF CALIBRATION: ELECTRICAL - RF & MICROWAVE (50 Ohm SYSTEM)

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (±)*	Remarks
Scattering Parameters			
Reflection Coefficient, Γ (S11, S22)	**100 kHz to 4 GHz**		
	0 to 0.1	0.006	Direct Measurement Via Vector Network Analyzer ZNB8 and Calibration Kit ZV-Z270
	0.1 to 0.2	0.006	
	0.2 to 0.3	0.007	
	0.3 to 0.4	0.008	
	0.4 to 0.5	0.009	
	0.5 to 0.6	0.011	
	0.6 to 0.7	0.013	
	0.7 to 0.8	0.02	
	0.8 to 0.9	0.024	
	0.9 to 1	0.028	
	4 GHz to 8.5 GHz		
	0 to 0.1	0.01	With reference to CISPR-16-1-1 / 2 / 3 / 4 , ANSI C63.4 and IEC 61000-4-6
	0.1 to 0.2	0.01	
	0.2 to 0.3	0.011	
	0.3 to 0.4	0.013	
	0.4 to 0.5	0.015	See note A
	0.5 to 0.6	0.018	
	0.6 to 0.7	0.021	
	0.7 to 0.8	0.026	
	0.8 to 0.9	0.03	
	0.9 to 1	0.036	
Transmission Coefficient, T (S21, S12	**9 kHz to 8.5 GHz**		
	0 dB to 30 dB	0.07 dB	Direct Measurement Via Vector Network Analyzer ZNB8 and Calibration Kit ZV-Z270 With reference to CISPR-16-1-1/2/3/4, ANSI C63.4 and IEC 61000-4-6
	31 dB to 40 dB	0.08 dB	
	41 dB to 50 dB	0.11 dB	
	51 dB to 60 dB	0.12 dB	
	61 dB to 70 dB	0.13 dB	
	71 dB to 80 dB	0.20 dB	
	81 dB to 90 dB	0.52 dB	

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Matrix B

Level Range	Frequency				
	8 kHz to 2.5 GHz	2.5 GHz to 5.5 GHz	5.5 GHz to 8.5 GHz	8.5 GHz to 12.5 GHz	12.5 GHz to 18 GHz
+20 dBm to -35 dBm	0.14 dB	0.17 dB	0.21 dB	0.24 dB	0.26 dB
-35 dBm to -65 dBm	0.14 dB	0.17 dB	0.21 dB	0.24 dB	0.26 dB
-65 dBm to -75 dBm	0.14 dB	0.17 dB	0.21 dB	0.24 dB	0.26 dB
-75 dBm to -80 dBm	0.14 dB	0.17 dB	0.21 dB	0.24 dB	0.26 dB
-80 dBm to -85 dBm	0.14 dB	0.17 dB	0.21 dB	0.24 dB	0.26 dB
-85 dBm to -90 dBm	0.15 dB	0.17 dB	0.21 dB	0.24 dB	0.26 dB
-95 dBm to -100 dBm	0.15 dB	0.18 dB	0.21 dB	0.24 dB	0.26 dB
100 dBm to -105 dBm	0.15 dB	0.18 dB	0.21 dB	0.24 dB	0.27 dB
-105 dBm to -110 dBm	0.15 dB	0.18 dB	0.21 dB	0.24 dB	0.27 dB
-110 dBm to -115 dBm	0.15 dB	0.18 dB	0.22 dB	0.25 dB	0.27 dB
-115 dBm to -120 dBm	0.15 dB	0.18 dB	0.22 dB	0.25 dB	0.27 dB

Note A:
Scattering parameters is a complex quantity the magnitude of which may be presented as linear magnitude of impedance ratio or logarithmic based decibels (dB), and the angle or phase may be presented in degrees or radians.

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