

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

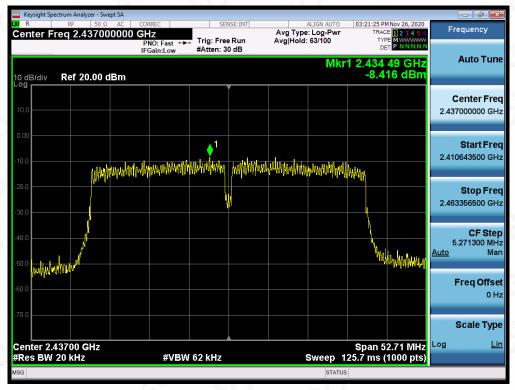
802.11n 40 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

Avg Type: Log-Pw Avg|Hold: 62/100 Frequency Center Freq 2.452000000 GHz Trig: Free Run PNO: Fast ++-#Atten: 30 dB Auto Tune Mkr1 2.460 70 GHz -9.060 dBm 10 dB/div Ref 20.00 dBm Center Freq 2.452000000 GHz Start Freq 2.425084000 GHz Stop Freq 2.478916000 GHz CF Step 5.383200 M Marine Laker Mar Auto **Freq Offset** 0 Hz Scale Type Span 53.83 MHz Log Sweep 128.3 ms (1000 pts) Center 2.45200 GHz #Res BW 20 kHz Lin #VBW 62 kHz STATUS

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

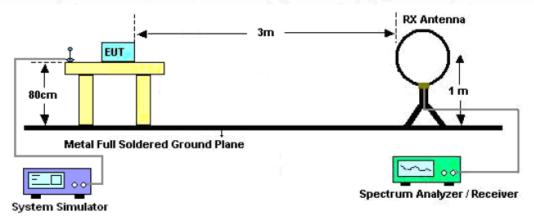
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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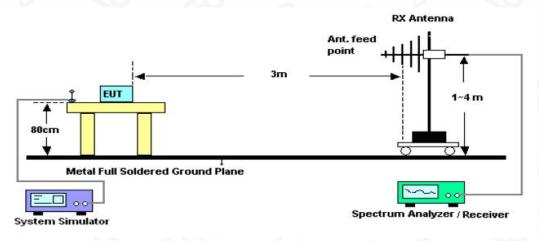


11.2. TEST SETUP

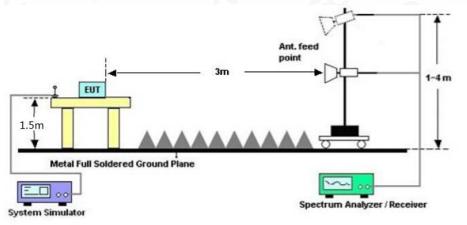
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/

11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) |
|----------------------|--------------------------------------|----------------------------------|
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

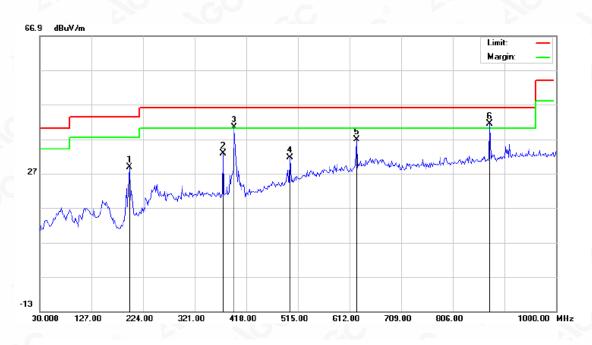
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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RADIATED EMISSION BELOW 1GHZ

| EUT | Cash Register | Model Name | TPS680 |
|-------------|-------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2412MHZ | Antenna | Horizontal |



| No. | Mł | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 198.1333 | 15.97 | 12.88 | 28.85 | 43.50 | -14.65 | peak |
| 2 | | 374.3500 | 11.68 | 21.11 | 32.79 | 46.00 | -13.21 | peak |
| 3 | İ | 395.3667 | 19.39 | 21.00 | 40.39 | 46.00 | -5.61 | peak |
| 4 | | 500.4500 | 6.57 | 25.00 | 31.57 | 46.00 | -14.43 | peak |
| 5 | | 624.9333 | 9.57 | 27.25 | 36.82 | 46.00 | -9.18 | peak |
| 6 | * | 875.5167 | 10.06 | 31.38 | 41.44 | 46.00 | -4.56 | peak |

RESULT: PASS

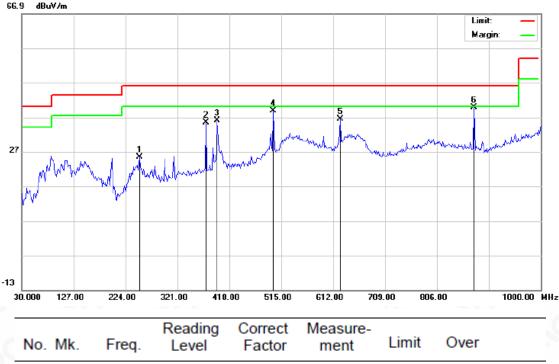
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| EUT | Cash Register | Model Name | TPS680 |
|-------------|-------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2412MHZ | Antenna | Vertical |



| | | | 20101 | 1 dotor | mont | | | |
|---|---|----------|-------|---------|--------|--------|--------|----------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 249.8667 | 6.95 | 18.49 | 25.44 | 46.00 | -20.56 | peak |
| 2 | | 374.3500 | 13.28 | 22.08 | 35.36 | 46.00 | -10.64 | peak |
| 3 | | 395.3667 | 13.19 | 22.82 | 36.01 | 46.00 | -9.99 | peak |
| 4 | | 500.4500 | 13.86 | 25.00 | 38.86 | 46.00 | -7.14 | peak |
| 5 | | 624.9333 | 9.92 | 26.50 | 36.42 | 46.00 | -9.58 | peak |
| 6 | * | 875.5167 | 11.40 | 28.36 | 39.76 | 46.00 | -6.24 | peak |

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report. Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the addicated restriction of the stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



RADIATED EMISSION ABOVE 1GHZ

| EUT | Cash Register | Model Name | TPS680 |
|-------------|-------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2412MHZ | Antenna | Horizontal |

| (MHz) | | | Emission Level | Limits | Margin | |
|----------|--------|------|----------------|----------|--------|------------|
| (11112) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Value Type |
| 4824.000 | 55.14 | 0.08 | 55.22 | 74 | -18.78 | peak |
| 4824.000 | 43.63 | 0.08 | 43.71 | 54 | -10.29 | AVG |
| 7236.000 | 53.33 | 2.21 | 55.54 | 74 | -18.46 | peak |
| 7236.000 | 41.07 | 2.21 | 43.28 | 54 | -10.72 | AVG |
| | 6 | 9 | | | -0- | |

| EUT | Cash Register | Model Name | TPS680 |
|-------------|-------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2412MHZ | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|-----------|---------------|--------|-----------------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4824.000 | 55.39 | 0.08 | 55.47 | 74 | -18.53 | peak |
| 4824.000 | 42.98 | 0.08 | 43.06 | 54 | -10.94 | AVG |
| 7236.000 | 54.21 | 2.21 | 56.42 | 74 | -17.58 | peak |
| 7236.000 | 41.39 | 2.21 | 43.6 | 54 | -10.4 | AVG |
| | C.C. | ® | | - 6 | | © |
| | | - 6 | \odot | | | |
| Remark: | | ĢČ | 0 | | NO. | |

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| EUT | Cash Register | Model Name | TPS680 |
|-------------|-------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2437MHZ | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | |
|--------------|-----------------|-------------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Value Type |
| 4874.000 | 54.57 | 0.14 | 54.71 | 74 | -19.29 | peak |
| 4874.000 | 42.91 | 0.14 | 43.05 | 54 | -10.95 | AVG |
| 7311.000 | 52.39 | 2.36 | 54.75 | 74 | -19.25 | peak |
| 7311.000 | 40.38 | 2.36 | 42.74 | 54 💿 | -11.26 | AVG |
| - 61 | 3 | | | | ¢ | |
| | | | | C C | | 8 |
| Remark: | | G | | | | |
| actor = Ante | enna Factor + C | able Loss – | Pre-amplifier. | | | |

| EUT | Cash Register | Model Name | TPS680 |
|-------------|-------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2437MHZ | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4874.000 | 51.37 | 0.14 | 51.51 | 74 | -22.49 | peak |
| 4874.000 | 41.03 | 0.14 | 41.17 | 54 | -12.83 | AVG |
| 7311.000 | 49.37 | 2.36 | 51.73 | 74 | -22.27 | peak |
| 7311.000 | 42.1 | 2.36 | 44.46 | 54 | -9.54 | AVG |
| 2 | | | - C | 8 | | |
| | | | | | | |

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| EUT | Cash Register | Model Name | TPS680 |
|-------------|-------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2462MHZ | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|--------------|-----------------|-------------|----------------|----------|----------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4924.000 | 52.42 | 0.22 | 52.64 | 74 | -21.36 | peak |
| 4924.000 | 41.36 | 0.22 | 41.58 | 54 | -12.42 | AVG |
| 7386.000 | 49.86 | 2.64 | 52.5 | 74 | -21.5 | peak |
| 7386.000 | 41.22 | 2.64 | 43.86 | 54 | -10.14 💿 | AVG |
| 6 | C | 3 | | | | 8 |
| emark: | | C | 0 | | 20 | - GG |
| actor = Ante | enna Factor + C | able Loss - | Pre-amplifier. | Ø | | |

| EUT | Cash Register | Model Name | TPS680 |
|-------------|-------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with date rate 1 2462MHZ | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|--------------|-----------------|----------------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4924.000 | 53.21 | 0.22 | 53.43 | 74 | -20.57 | peak |
| 4924.000 | 41.93 | 0.22 | 42.15 | 54 | -11.85 | AVG |
| 7386.000 | 52.79 | 2.64 | 55.43 | 74 | -18.57 | peak |
| 7386.000 | 40.75 | 2.64 | 43.39 | 54 | -10.61 | AVG |
| | | | C I | | 0 | |
| emark: | C | | | 2 0 | G | |
| actor = Ante | enna Factor + C | able Loss – Pi | re-amplifier. | | | |

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G 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, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

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12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

12.2. TEST SET-UP

same as 11.2

Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level

2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots

is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V /m) to represent the Field Strength. So A=F.

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12.3. TEST RESULT

| EUT | Cash Register | Model Name | TPS680 |
|-------------|-------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHZ | Antenna | Horizontal |

ΡK



AV



RESULT: PASS

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| EUT | Cash Register | Model Name | TPS680 |
|-------------|-------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2412MHZ | Antenna | Vertical |

Avg Type: Log-Pw Avg|Hold: 100/100 0 GH Trig: Free Run #Atten: 30 dB Auto Tun 2 2.390 00 50.859 dB Ref 126.99 dBµV/m Center Freq 2.399500000 GH Start Freq 2.370000000 GH Stop Free 2.429000000 GH Stop 2.42900 GHz 1.066 ms (1000 pts) 2.37000 GHz BW 1.0 MHz CF Ste start Res #VBW 3.0 MHz 5.90 Freq Offse 0 F Scale Typ Lir

ΡK





RESULT: PASS

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| EUT | Cash Register | Model Name | TPS680 |
|-------------|-------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2462MHZ | Antenna | Horizontal |

ΡK







RESULT: PASS

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| EUT | Cash Register | Model Name | TPS680 |
|-------------|-------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11b with data rate 1 2462MHZ | Antenna | Vertical |

ΡK



AV



RESULT: PASS

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| EUT | Cash Register | Model Name | TPS680 |
|-------------|-------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11g with data rate 6 2412MHZ | Antenna | Horizontal |

ΡK





AV

RESULT: PASS

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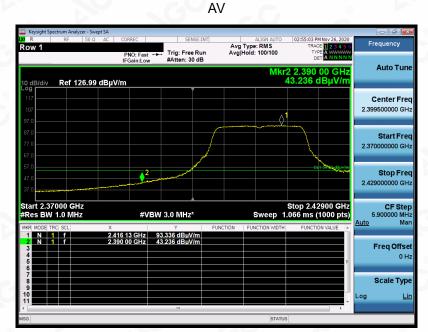
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| EUT | Cash Register | Model Name | TPS680 |
|-------------|-------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11g with data rate 6 2412MHZ | Antenna | Vertical |

Avg Type: Log-Pw Avg|Hold: 100/100 PNO: Fast +++ Trig: Free Run EGain: Low #Atten: 30 dB 2 2.390 00 G 58.863 dBu\



ΡK



RESULT: PASS

Compliances Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated resting Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuance of g/Inspection The test results the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



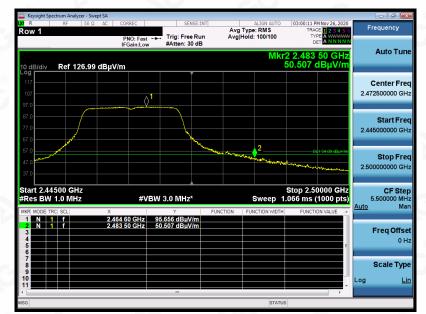
Report No.: AGC00065201102FE05 Page 65 of 81

| EUT | Cash Register | Model Name | TPS680 |
|-------------|-------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11g with data rate 6 2462MHZ | Antenna | Horizontal |

PK



AV



RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.

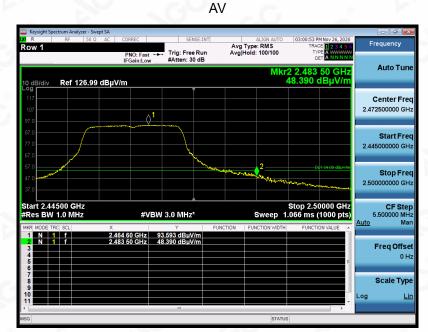


Report No.: AGC00065201102FE05 Page 66 of 81

| EUT | Cash Register | Model Name | TPS680 |
|-------------|-------------------------------------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11g with data rate 6 2462MHZ | Antenna | Vertical |

Avg Type: Log-Pw Avg|Hold: 100/100 Trig: Free Run #Atten: 30 dB PNO: Fast Auto Tun Ref 126.99 dBµV/m Center Free 2.472500000 GH Start Freq 2.445000000 GH Stop Free 2.500000000 GH 2.44500 GHz BW 1.0 MHz Stop 2.50 1.066 ms (1 CF Ste Res #VBW 3.0 MHz 5.50 2.466 86 GHz 101.972 dBµV 2.483 50 GHz 68.595 dBµV Freq Offse 0 F Scale Typ Lir

ΡK



RESULT: PASS

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Report No.: AGC00065201102FE05 Page 67 of 81

| EUT | Cash Register | Model Name | TPS680 |
|-------------|--|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 20 with data rate 6.5 2412MHZ | Antenna | Horizontal |

ΡK



AV



RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written aphroization of AGE the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



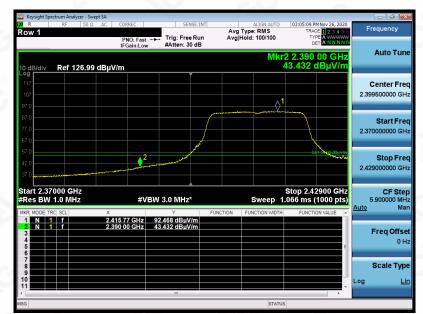
Report No.: AGC00065201102FE05 Page 68 of 81

| EUT | Cash Register | Model Name | TPS680 |
|-------------|--|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 20 with data rate 6.5 2412MHZ | Antenna | Vertical |

ΡK



AV



RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pasting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



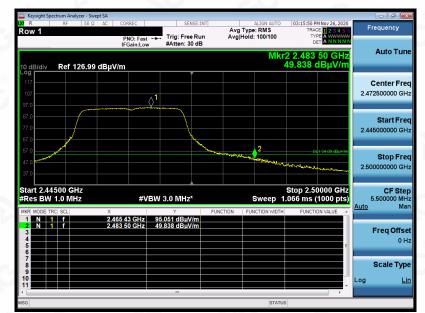
Report No.: AGC00065201102FE05 Page 69 of 81

| EUT | Cash Register | Model Name | TPS680 |
|-------------|--|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 20 with data rate 6.5 2462MHZ | Antenna | Horizontal |

ΡK



AV



RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pasting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



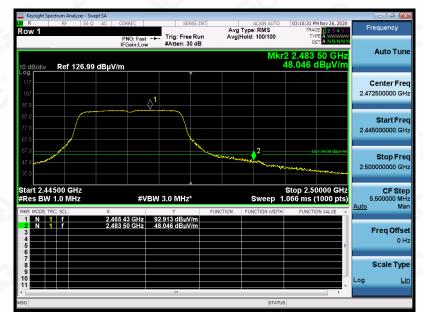
Report No.: AGC00065201102FE05 Page 70 of 81

| EUT | Cash Register | Model Name | TPS680 |
|-------------|--|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 20 with data rate 6.5 2462MHZ | Antenna | Vertical |

ΡK



AV



RESULT: PASS

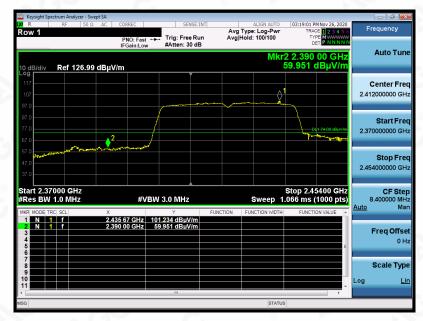
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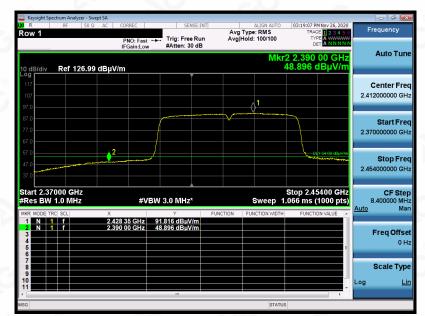
Report No.: AGC00065201102FE05 Page 71 of 81

| EUT | Cash Register | Model Name | TPS680 |
|-------------|---|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 40 with data rate 13.5 2422MHZ | Antenna | Horizontal |

ΡK



AV



RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



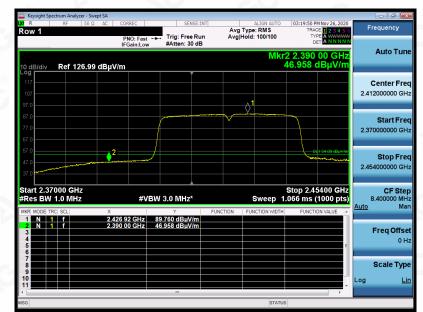
Report No.: AGC00065201102FE05 Page 72 of 81

| EUT | Cash Register | Model Name | TPS680 |
|-------------|---|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 40 with data rate 13.5 2422MHZ | Antenna | Vertical |

ΡK



AV



RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written aphroization of AGE the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.

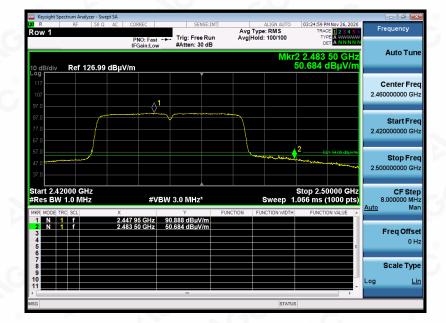


Report No.: AGC00065201102FE05 Page 73 of 81

| EUT | Cash Register | Model Name | TPS680 |
|-------------|--|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 40with data rate 13.5 2452MHZ | Antenna | Horizontal |

ΡK





RESULT: PASS

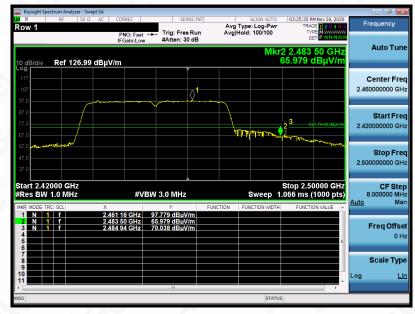
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written aphroization of AGE the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



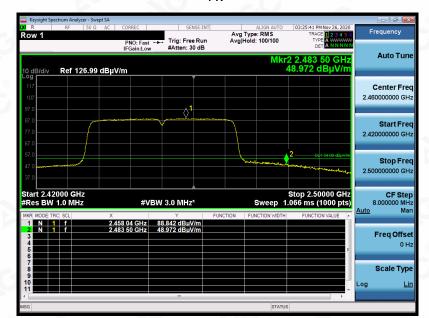
Report No.: AGC00065201102FE05 Page 74 of 81

| EUT | Cash Register | Model Name | TPS680 |
|-------------|---|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 60% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | 802.11n 40 with data rate 13.5 2452MHZ | Antenna | Vertical |

PK



AV



RESULT: PASS

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13. FCC LINE CONDUCTED EMISSION TEST

13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

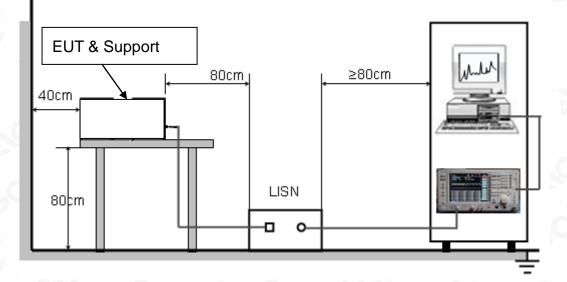
| Francisco | Maximum RF Line Voltage | | | |
|---------------|-------------------------|----------------|--|--|
| Frequency | Q.P.(dBuV) | Average(dBuV) | | |
| 150kHz~500kHz | 66-56 | 56-46 | | |
| 500kHz~5MHz | 56 | 46 | | |
| 5MHz~30MHz | 60 | 50 | | |

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 0.50 MHz.

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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 equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 12V power from adapter which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a 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.

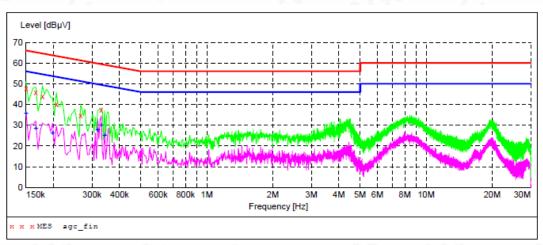
13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 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 condition(s) was reported on the Summary Data page.

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13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



Line Conducted Emission Test Line 1-L

MEASUREMENT RESULT: "agc_fin"

| 2020/12/3 | 21:01 | | | | | | |
|--|----------------------|--|--|----------------------------|------------------------------|----------------|----------------------------------|
| Frequen M | cy Hz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line |
| 0.1500 0.1660 0.1780 0.2060 0.2660 0.3300 | 00 00 00 00 | 47.90 45.70 44.00 40.00 34.60 37.30 | 11.3 11.3 11.3 11.3 11.3 11.3 11.3 | 66 65 63 61 60 | 19.5 20.6 23.4 26.6 | QP QP QP | L1 L1 L1 L1 L1 L1 |

MEASUREMENT RESULT: "agc fin2"

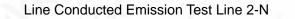
| 2020/12/3 | 21:01 | | | | | |
|--|--|--|----------------------------------|----------------------|----------------|----------------------------------|
| Frequenc MH | y Level Iz dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line |
| 0.15000 0.16600 0.19800 0.31800 0.33000 0.34200 | 00 28.60 00 26.50 00 28.00 00 30.20 | 11.3 11.3 11.3 11.3 11.3 11.3 11.3 | 56 55 54 50 50 49 | 27.2 21.8 19.3 | AV AV AV | L1 L1 L1 L1 L1 L1 |

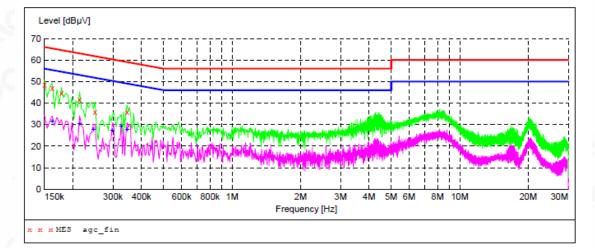
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MEASUREMENT RESULT: "agc fin"

2020/12/3 20:57 Frequency Level Transd Limit Margin Detector Line dBµV dB MHz dBµV dB 48.50 0.150000 17.5 11.3 66 QP Ν 0.162000 46.80 11.3 65 18.6 QP Ν 0.178000 44.80 11.3 65 19.8 QP Ν 0.214000 11.3 21.4 41.60 63 Ν QP 25.8 0.250000 36.00 11.3 62 Ν QP 0.346000 35.90 59 23.2 11.3 QP Ν

MEASUREMENT RESULT: "agc_fin2"

| 20:57 | | | | | |
|--------------------|--|---|---|--|--|
| y Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line |
|) 31.80) 30.50 | 11.3 11.3 | 55 53 | 23.6 | | N N |
| 27.70 | 11.3 | 52 | | | N |
| 27.40 | 11.3 | 50 | 22.9 | AV | N |
|) 29.40) 27.90 | 11.3 11.3 | 50 49 | | | N N |
| | Level dBμV 31.80 30.50 27.70 27.40 29.40 | Level Transd dBµV dB 31.80 11.3 30.50 11.3 27.70 11.3 27.40 11.3 29.40 11.3 | Level Transd Limit dBµV dB dBµV 31.80 11.3 55 30.50 11.3 53 27.70 11.3 52 27.40 11.3 50 29.40 11.3 50 | Level Transd Limit Margin dBµV dB dBµV dB 31.80 11.3 55 23.6 30.50 11.3 53 22.5 27.70 11.3 52 24.2 27.40 11.3 50 22.9 29.40 11.3 50 20.2 | Level Transd Limit Margin Detector dBμV dB dBμV dB dB dB 31.80 11.3 55 23.6 AV 30.50 11.3 53 22.5 AV 27.70 11.3 52 24.2 AV 27.40 11.3 50 22.9 AV 29.40 11.3 50 20.2 AV |

RESULT: PASS

Note: All the test modes had been tested, The 11b mode low channel was the worst case. Only the data of the worst case would be record in this test report.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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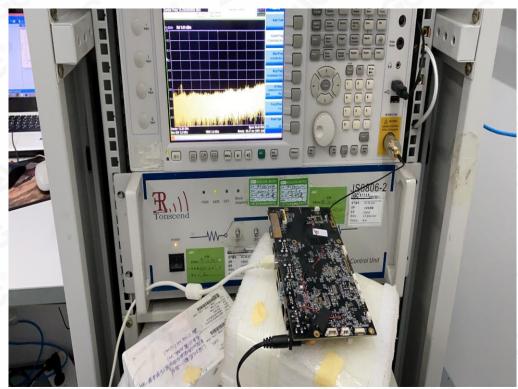


Report No.: AGC00065201102FE05 Page 80 of 81



CONDUCTED EMISSION TEST SETUP

CONDUCTED TEST SETUP



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Report No.: AGC00065201102FE05 Page 81 of 81

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC01684201103AP01

----END OF REPORT----

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.

5. 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.

6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

8. 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.

9. 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.

10. 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.

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