

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120318\
 Data File : VN052620.D
 Acq On : 3 Dec 2018 9:53
 Operator : MD\SY
 Sample : VN1203WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1203WBL01

Quant Time: Dec 04 00:30:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1132113	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1735413	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1449849	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	467562	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	583081	47.30	ug/l	0.00
Spiked Amount			Recovery	=	94.60%	
35) Dibromofluoromethane	7.59	113	534047	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
50) Toluene-d8	10.09	98	2089900	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
62) 4-Bromofluorobenzene	12.40	95	601241	42.96	ug/l	0.00
Spiked Amount			Recovery	=	85.92%	

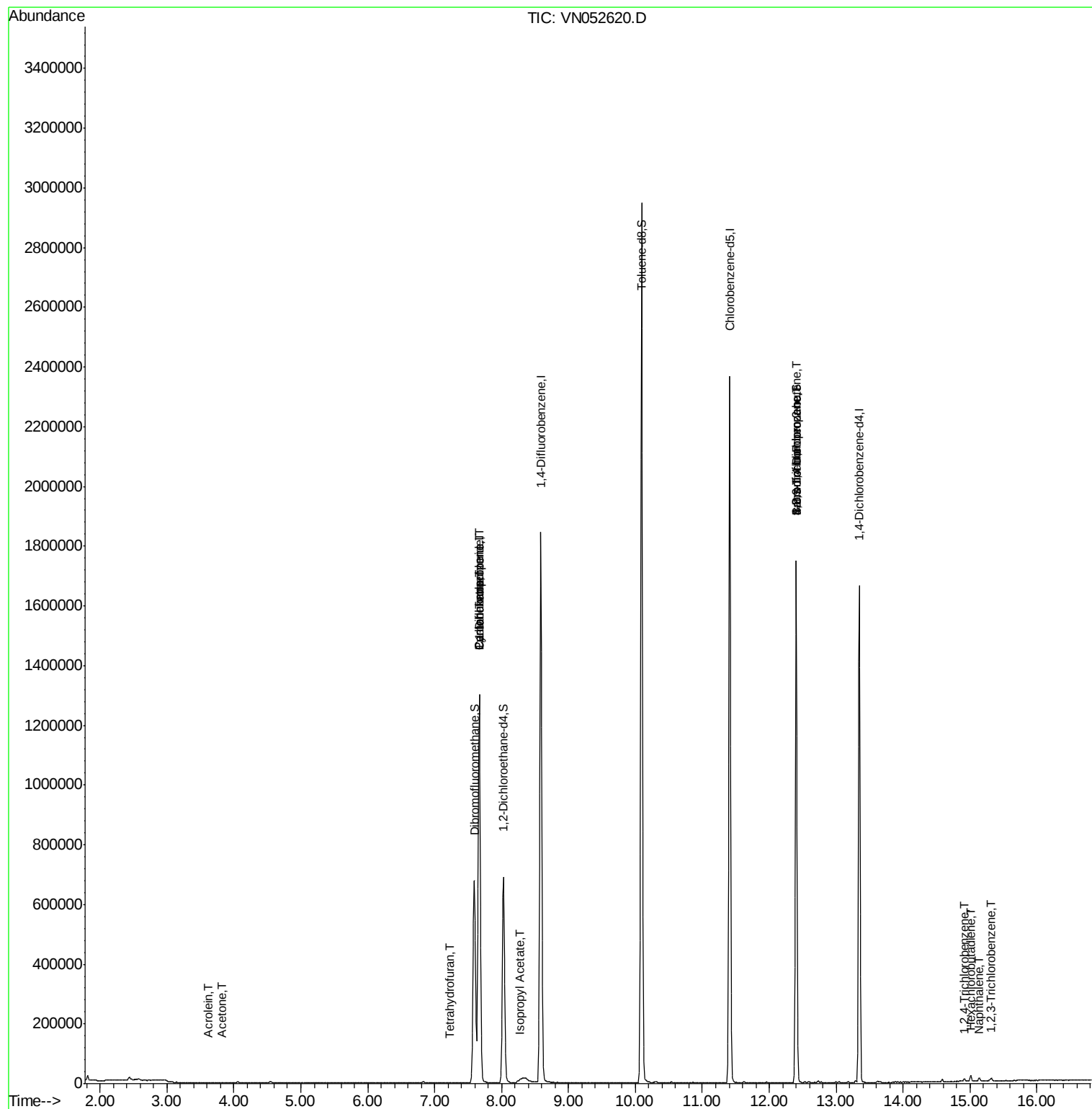
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	513	0.478	ug/l	89
16) Acetone	3.82	43	990	0.304	ug/l #	42
29) Tetrahydrofuran	7.22	42	689	0.232	ug/l #	86
31) Cyclohexane	7.66	56	19328	0.550	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	78502	4.790	ug/l #	50
38) Carbon Tetrachloride	7.67	117	101786	6.861	ug/l #	15
43) Isopropyl Acetate	8.26	43	6883	0.407	ug/l #	51
71) Bromoform	12.40	173	3611	0.525	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	286308	39.709	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	286308	132.611	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	3924	3.276	ug/l	99
94) Hexachlorobutadiene	15.01	225	4329	0.888	ug/l	95
95) Naphthalene	15.13	128	10230	3.970	ug/l	96
96) 1,2,3-Trichlorobenzene	15.32	180	4234	3.251	ug/l	92

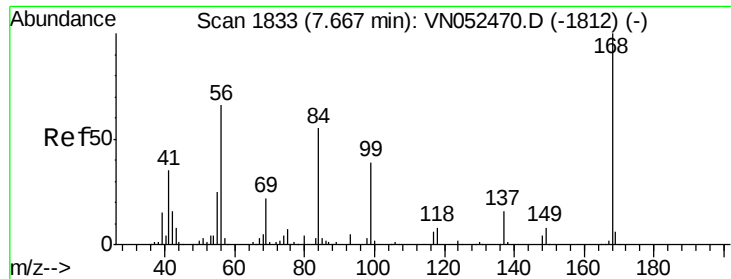
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 04 00:30:17 2018
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Quant Title : SW846 8260
QLast Update : Mon Dec 03 03:24:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052620.D

Acq: 3 Dec 2018 9:53

Instrument :

MSVOA_N

ClientSampled :

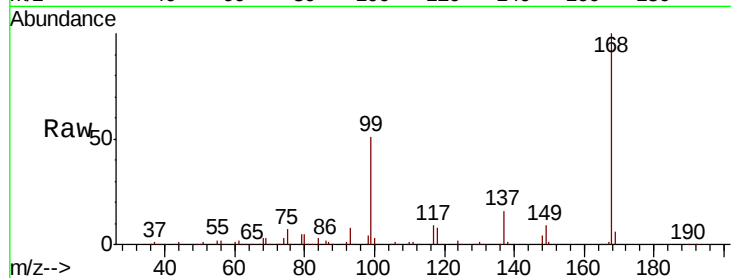
VN1203WBL01

Tot Ion:168 Resp: 1132113

Ion Ratio Lower Upper

168 100

99 51.4 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

500000

400000

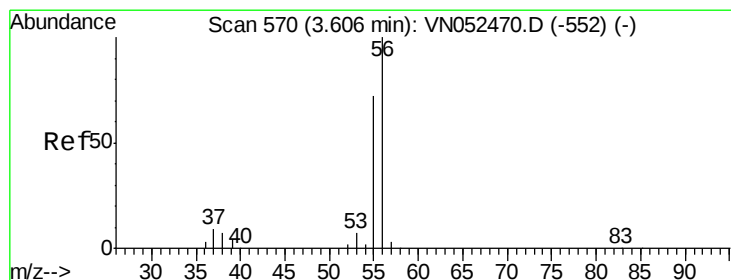
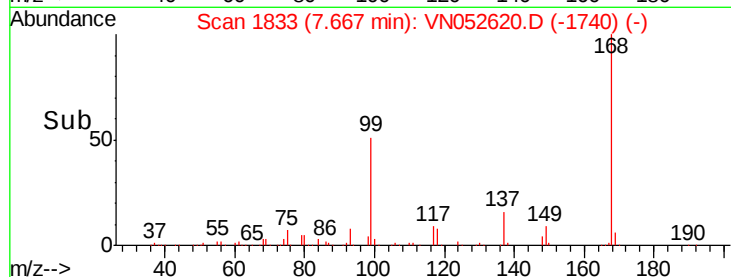
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.478 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN052620.D

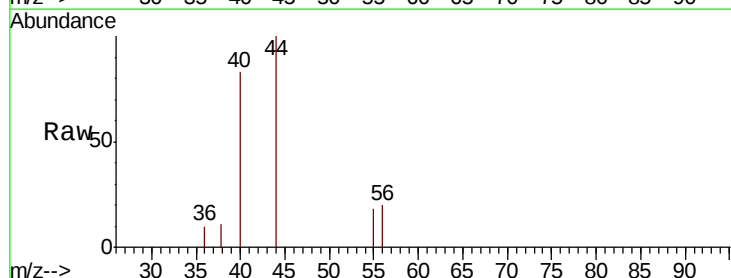
Acq: 3 Dec 2018 9:53

Tgt Ion: 56 Resp: 513

Ion Ratio Lower Upper

56 100

55 79.7 56.8 85.2



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.61

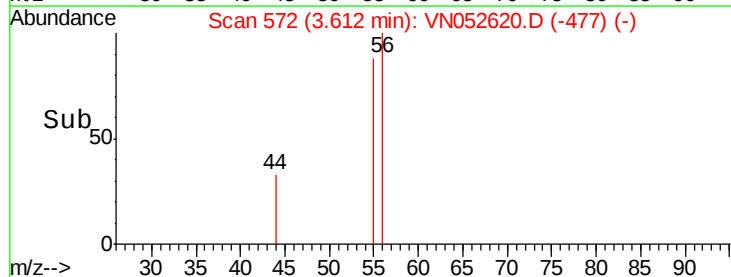
300

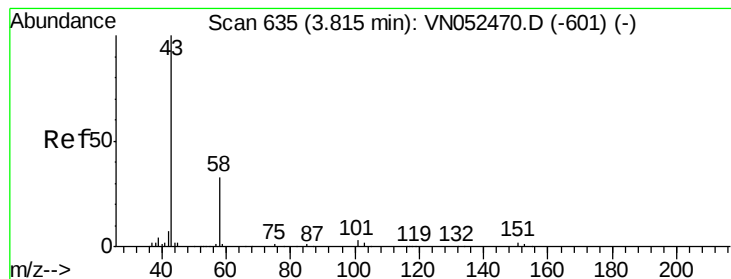
200

100

0

Time-->





#16

Acetone

Concen: 0.304 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052620.D

Acq: 3 Dec 2018 9:53

Instrument :

MSVOA_N

ClientSampled :

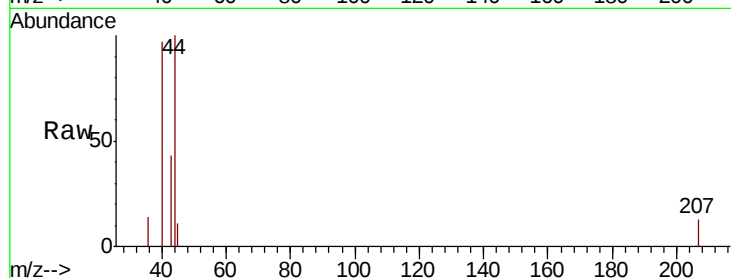
VN1203WBL01

Tot Ion: 43 Resp: 990

Ion Ratio Lower Upper

43 100

58 0.0 26.0 39.0#

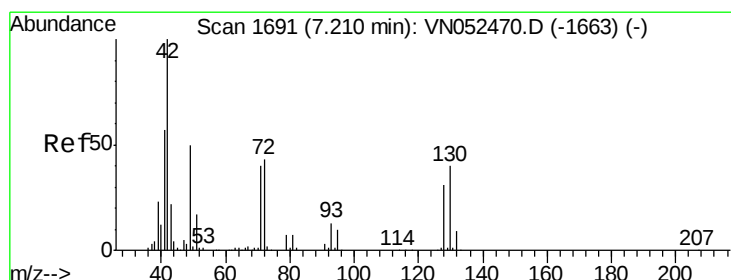
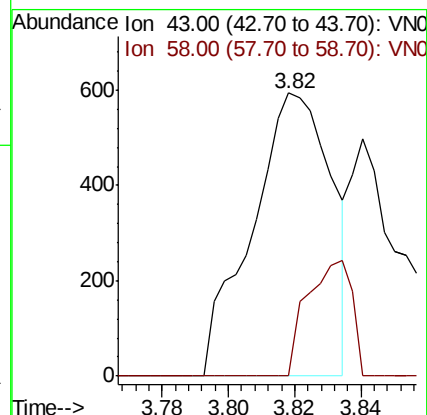
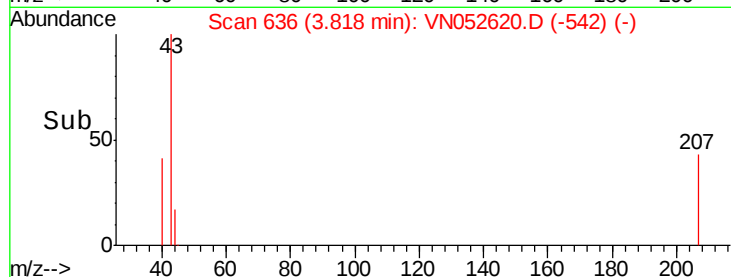


Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN052470.D (-601) (-)

3.82

3.84



#29

Tetrahydrofuran

Concen: 0.232 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN052620.D

Acq: 3 Dec 2018 9:53

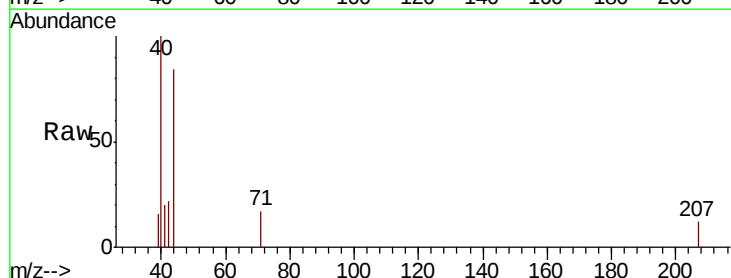
Tgt Ion: 42 Resp: 689

Ion Ratio Lower Upper

42 100

72 25.1 33.3 49.9#

71 40.9 32.0 48.0



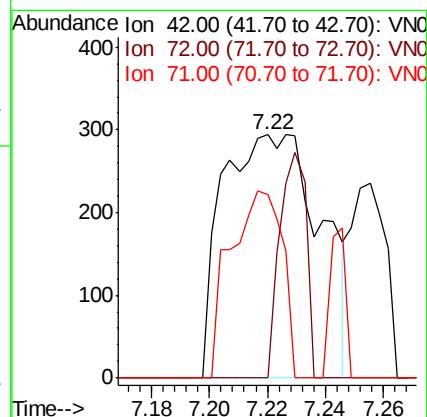
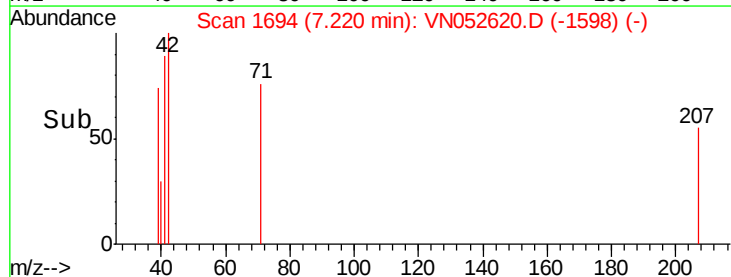
Abundance Ion 42.00 (41.70 to 42.70): VN052470.D (-1663) (-)

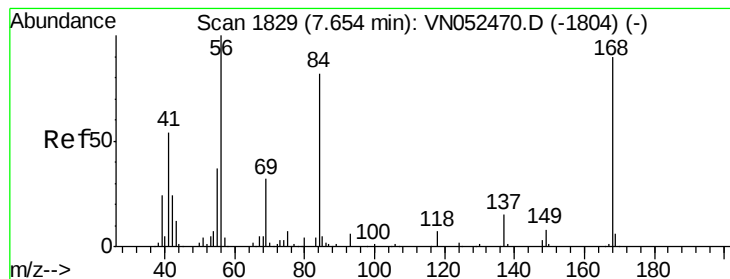
Ion 72.00 (71.70 to 72.70): VN052470.D (-1663) (-)

Ion 71.00 (70.70 to 71.70): VN052470.D (-1663) (-)

7.22

7.24





#31

Cyclohexane

Concen: 0.550 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN052620.D

Acq: 3 Dec 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN1203WBL01

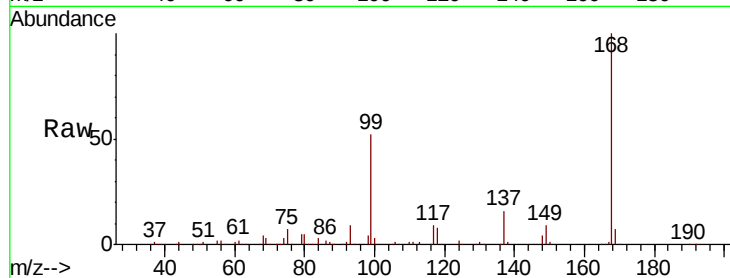
Tot Ion: 56 Resp: 19328

Ion Ratio Lower Upper

56 100

69 200.3 25.8 38.6#

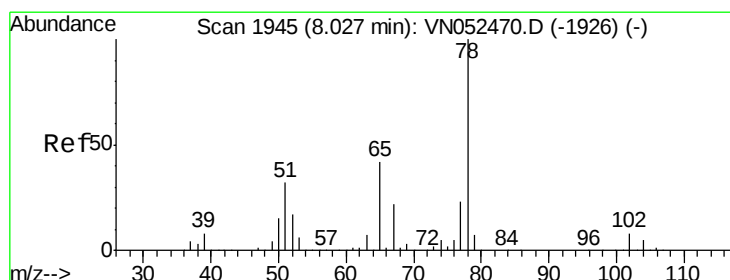
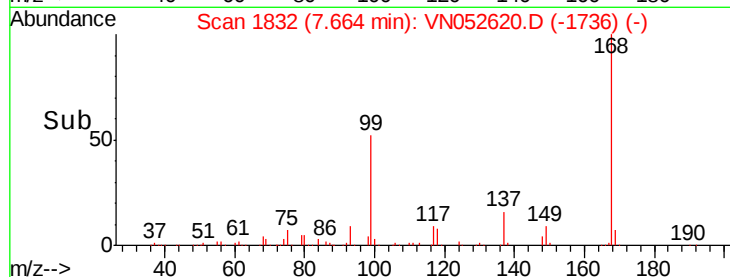
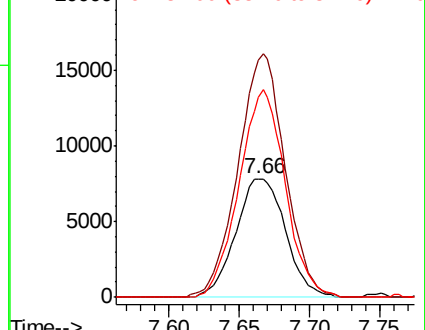
84 168.3 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052620.D

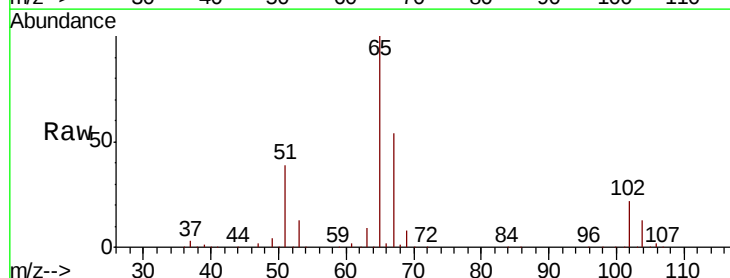
Acq: 3 Dec 2018 9:53

Tgt Ion: 65 Resp: 583081

Ion Ratio Lower Upper

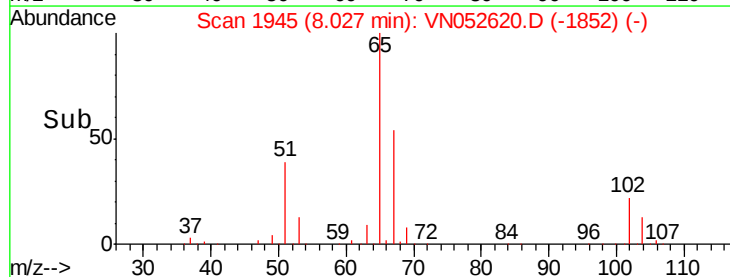
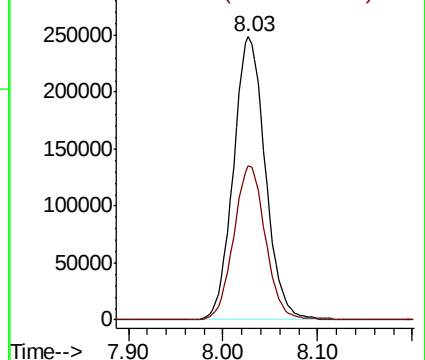
65 100

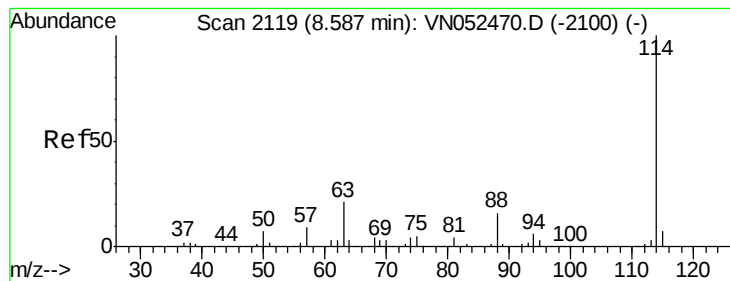
67 54.4 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN052620.D

Acq: 3 Dec 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN1203WBL01

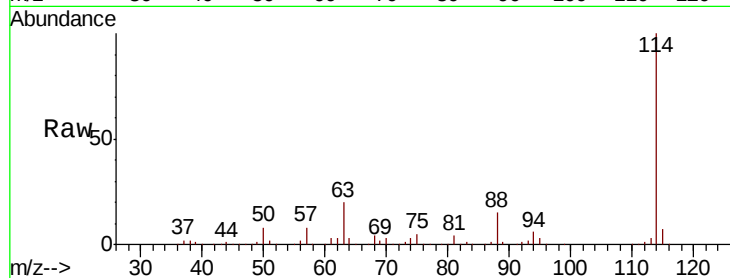
Tot Ion:114 Resp: 1735413

Ion Ratio Lower Upper

114 100

63 19.8 0.0 41.8

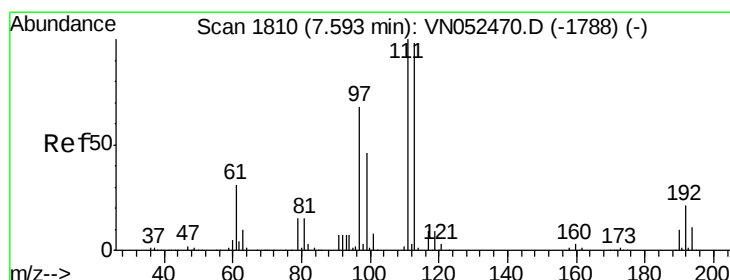
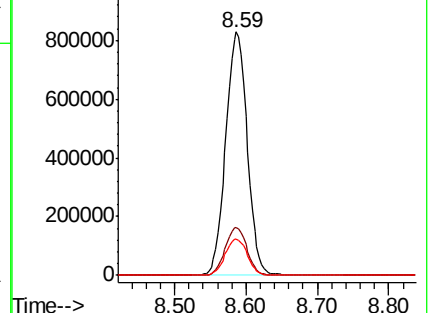
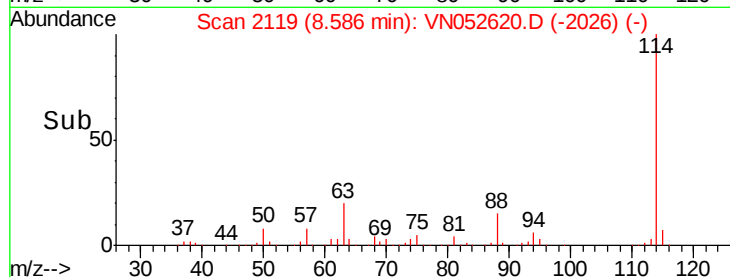
88 15.0 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN052620.D

Acq: 3 Dec 2018 9:53

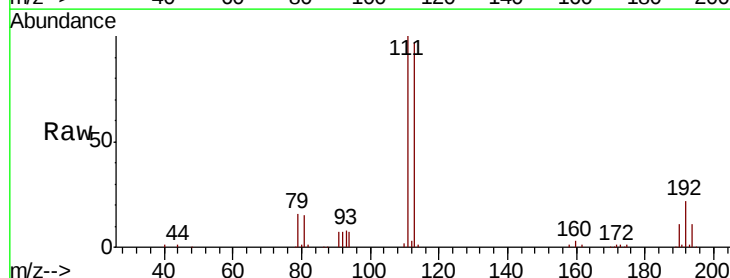
Tgt Ion:113 Resp: 534047

Ion Ratio Lower Upper

113 100

111 102.6 82.0 123.0

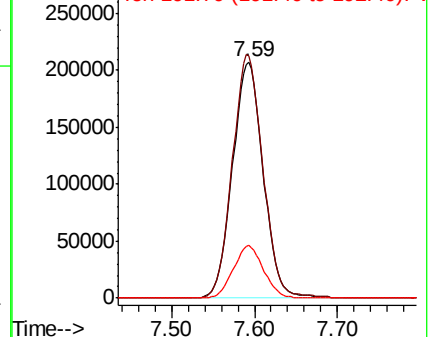
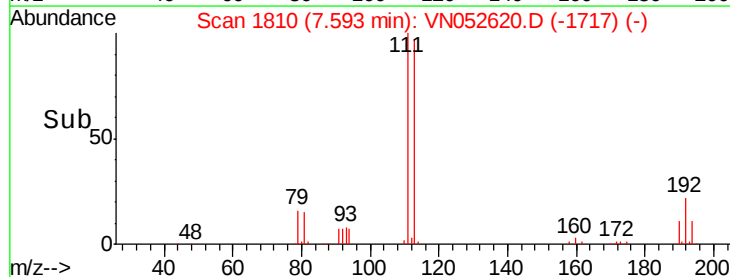
192 22.0 17.0 25.6

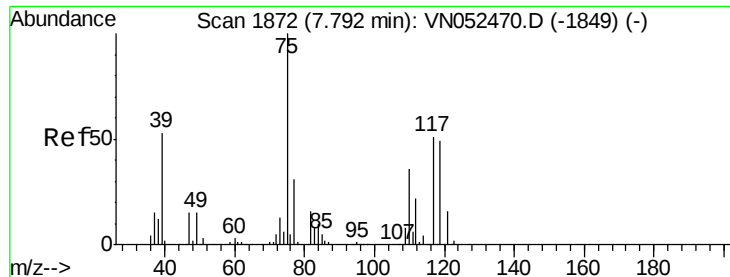


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.790 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052620.D

Acq: 3 Dec 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN1203WBL01

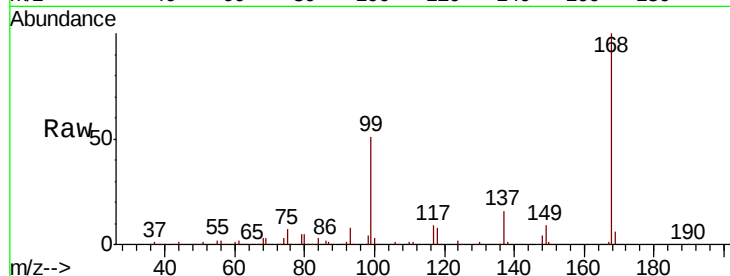
Tot Ion: 75 Resp: 78502

Ion Ratio Lower Upper

75 100

110 8.6 17.5 52.6#

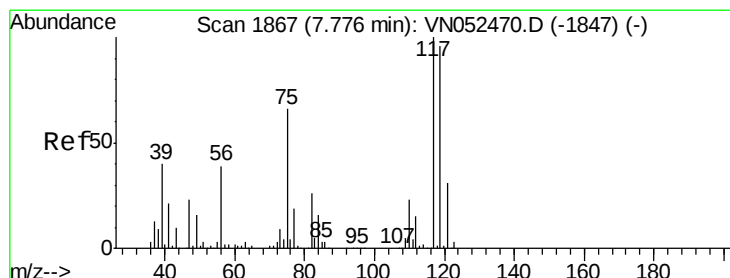
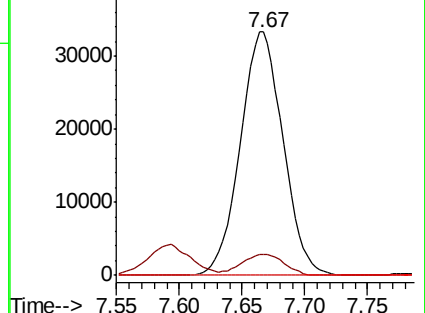
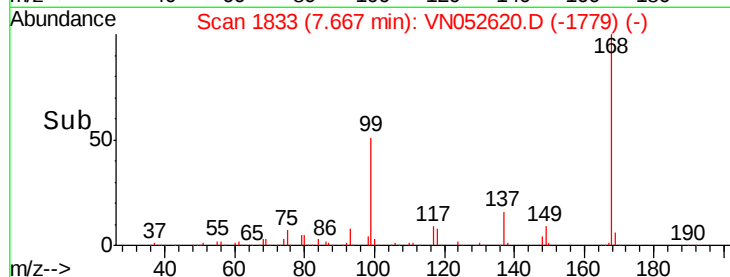
77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VN052620.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN052620.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN052620.D (-1779) (-)



#38

Carbon Tetrachloride

Concen: 6.861 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052620.D

Acq: 3 Dec 2018 9:53

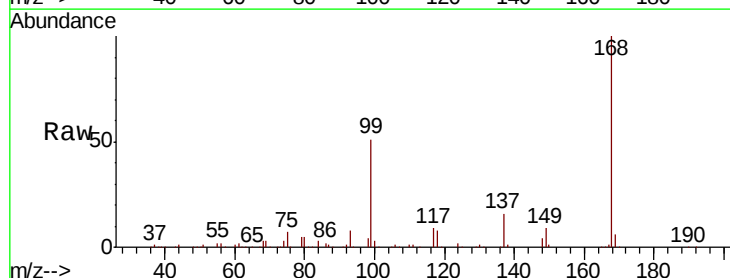
Tgt Ion: 117 Resp: 101786

Ion Ratio Lower Upper

117 100

119 4.5 76.8 115.2#

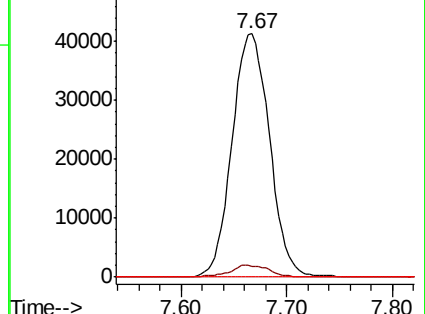
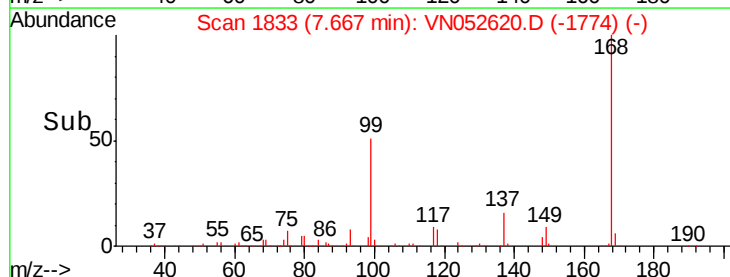
121 0.0 24.9 37.3#

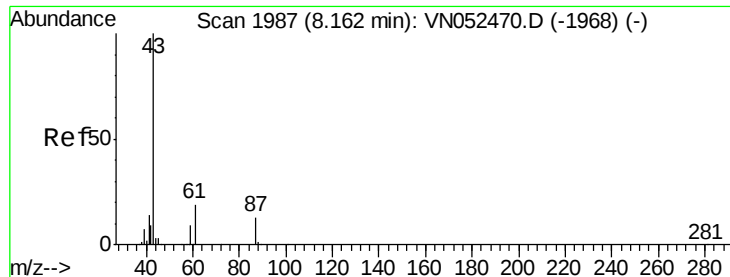


Abundance Ion 116.80 (116.50 to 117.50): VN052620.D (-1774) (-)

Ion 118.80 (118.50 to 119.50): VN052620.D (-1774) (-)

Ion 120.80 (120.50 to 121.50): VN052620.D (-1774) (-)





#43

Isopropyl Acetate

Concen: 0.407 ug/l

RT: 8.26 min Scan# 2018

Delta R.T. 0.10 min

Lab File: VN052620.D

Acq: 3 Dec 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN1203WBL01

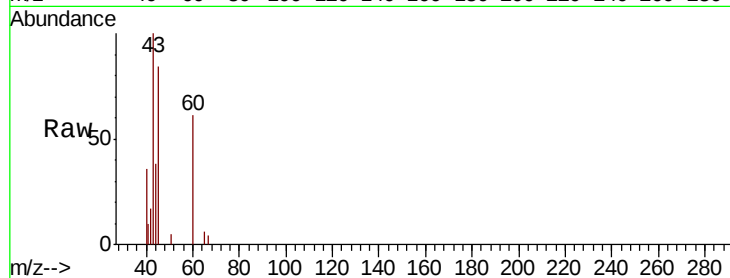
Tot Ion: 43 Resp: 6883

Ion Ratio Lower Upper

43 100

61 0.0 24.1 36.1#

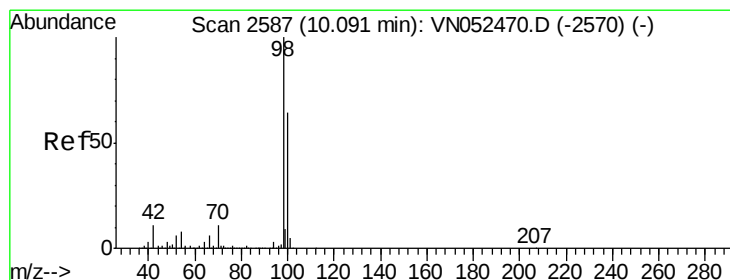
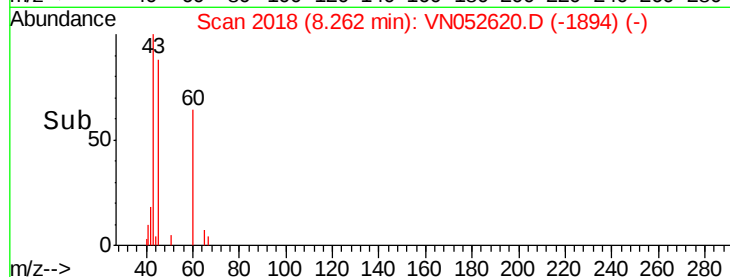
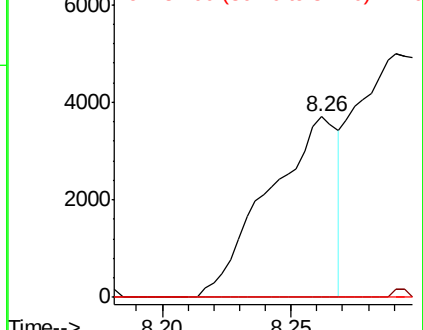
87 0.0 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052620.D

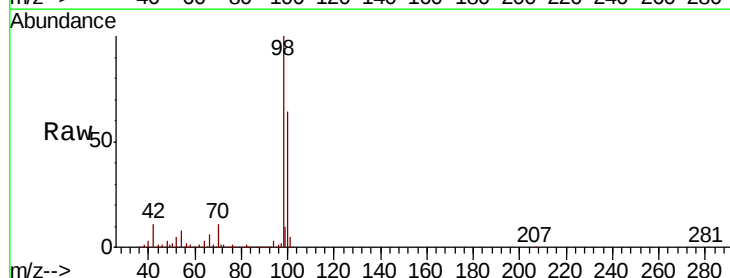
Acq: 3 Dec 2018 9:53

Tgt Ion: 98 Resp: 2089900

Ion Ratio Lower Upper

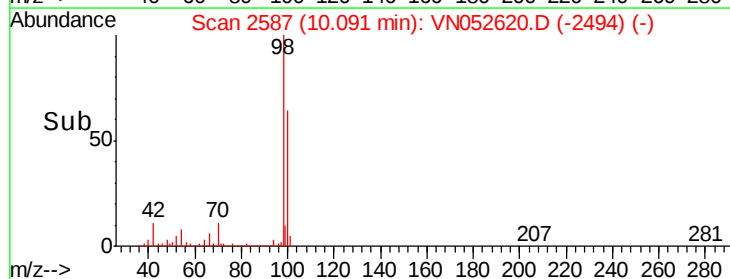
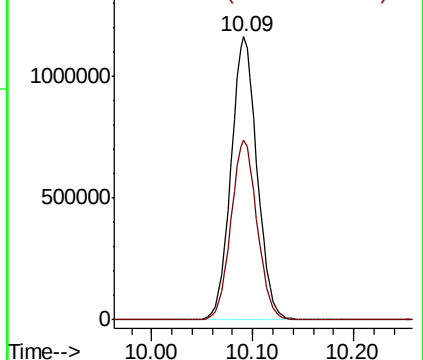
98 100

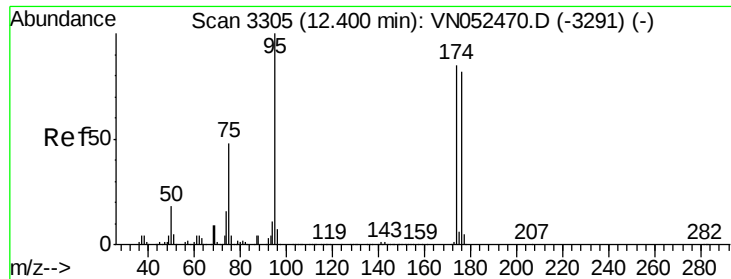
100 63.7 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052620.D

Acq: 3 Dec 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN1203WBL01

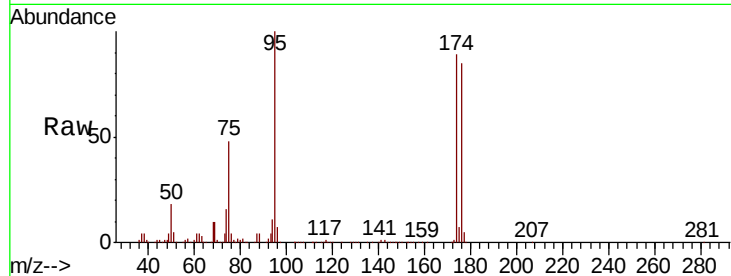
Tot Ion: 95 Resp: 601241

Ion Ratio Lower Upper

95 100

174 87.9 0.0 173.0

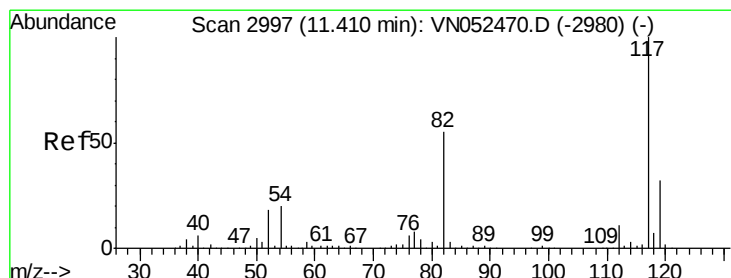
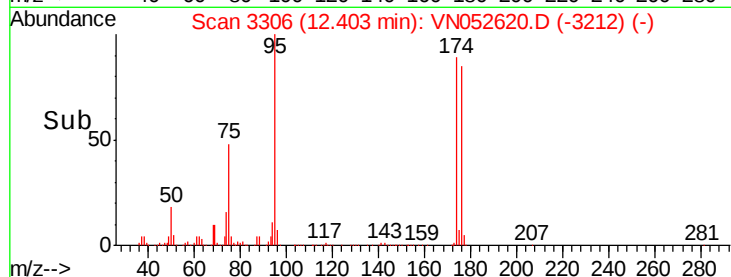
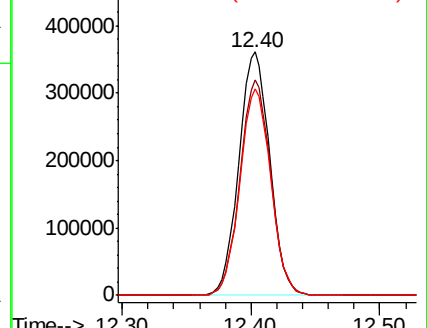
176 84.9 0.0 166.2



Abundance Ion 94.90 (94.60 to 95.60): VN052470.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052470.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052470.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. -0.00 min

Lab File: VN052620.D

Acq: 3 Dec 2018 9:53

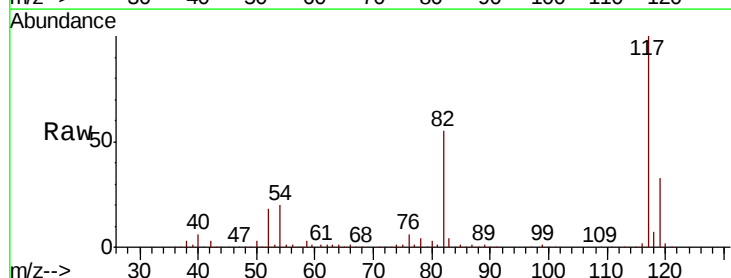
Tgt Ion: 117 Resp: 1449849

Ion Ratio Lower Upper

117 100

82 54.6 43.6 65.4

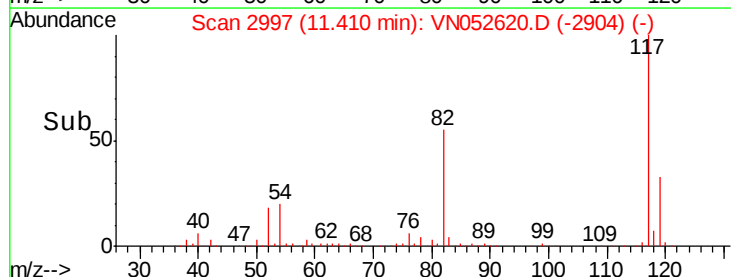
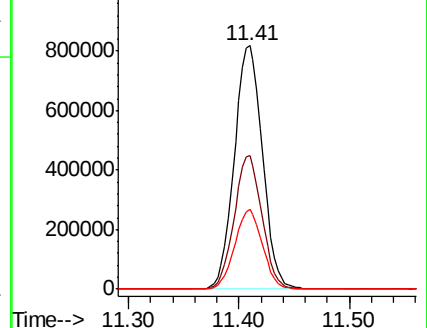
119 32.6 25.4 38.2

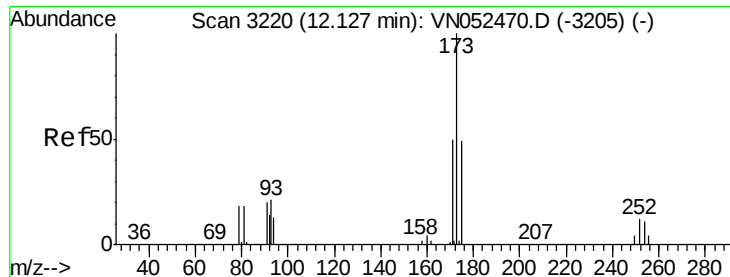


Abundance Ion 116.90 (116.60 to 117.60): VN052470.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN052470.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN052470.D (-2980) (-)





#71

Bromoform

Concen: 0.525 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052620.D

Acq: 3 Dec 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN1203WBL01

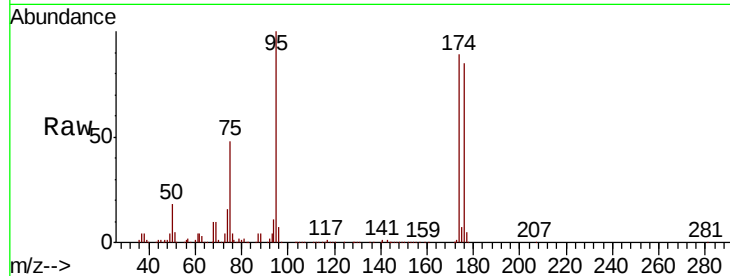
Tot Ion:173 Resp: 3611

Ion Ratio Lower Upper

173 100

175 919.0 24.4 73.2#

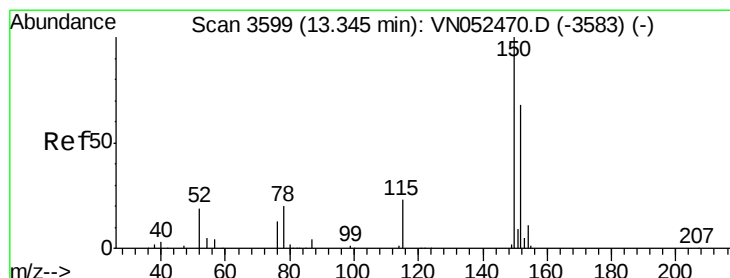
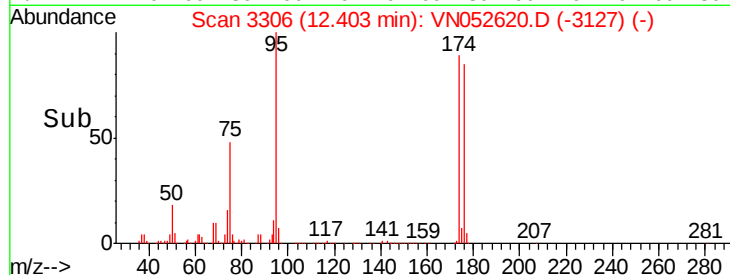
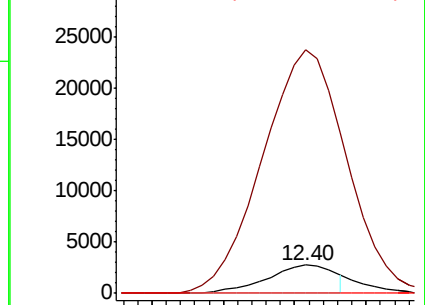
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN052620.D

Acq: 3 Dec 2018 9:53

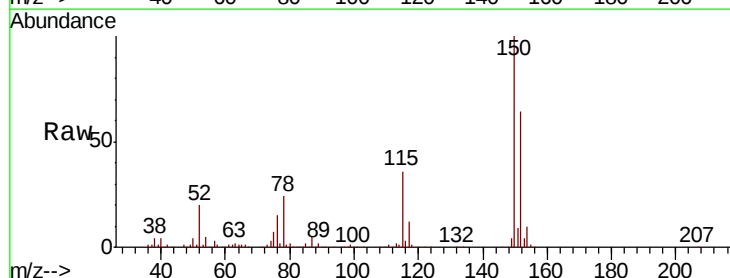
Tgt Ion:152 Resp: 467562

Ion Ratio Lower Upper

152 100

115 56.8 28.4 85.2

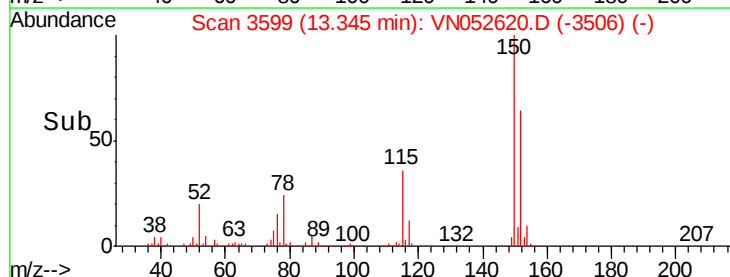
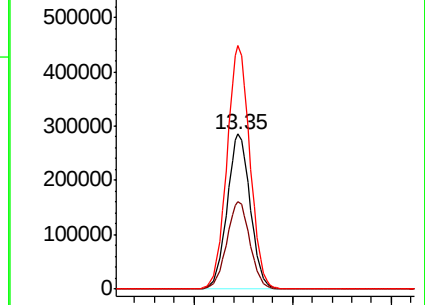
150 156.3 0.0 346.0

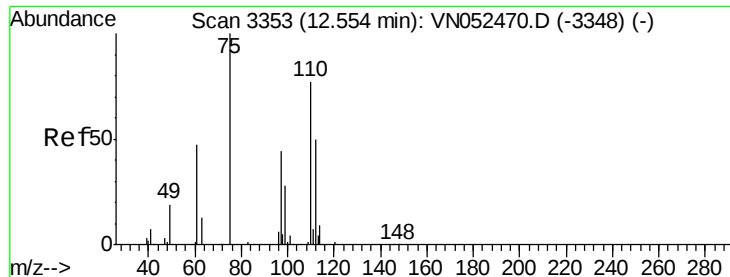


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 39.709 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052620.D

Acq: 3 Dec 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

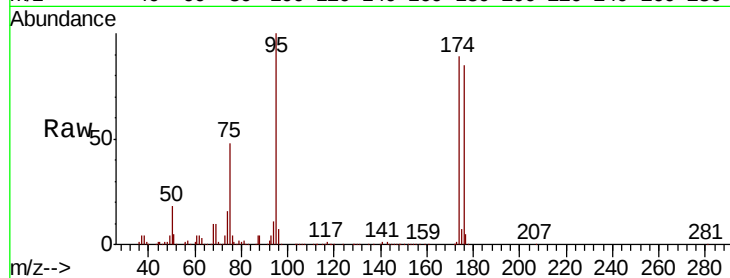
VN1203WBL01

Tot Ion: 75 Resp: 286308

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

200000

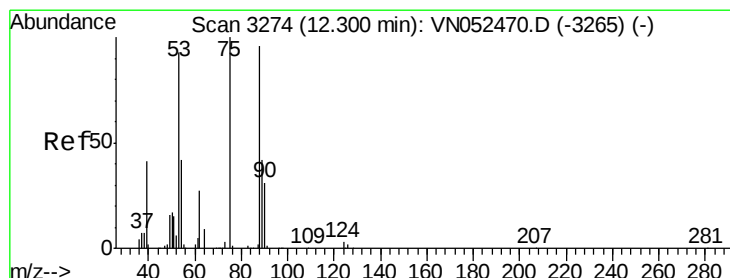
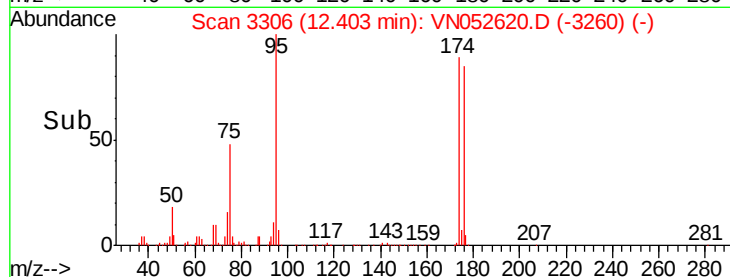
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 132.611 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052620.D

Acq: 3 Dec 2018 9:53

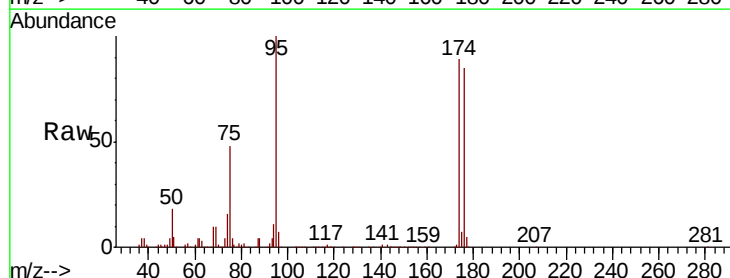
Tgt Ion: 75 Resp: 286308

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

200000

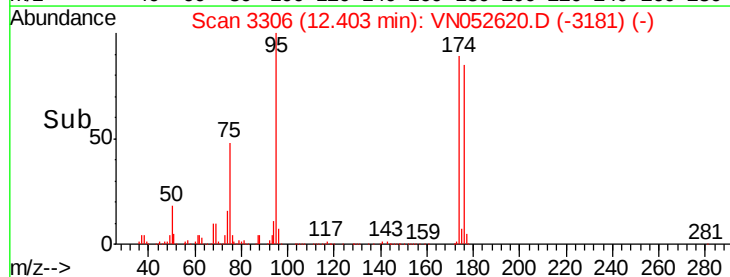
150000

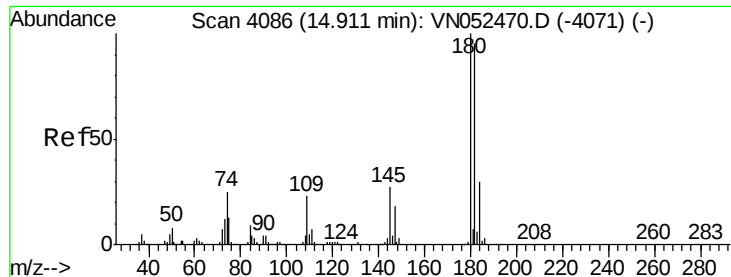
100000

50000

0

Time--> 12.30 12.40 12.50

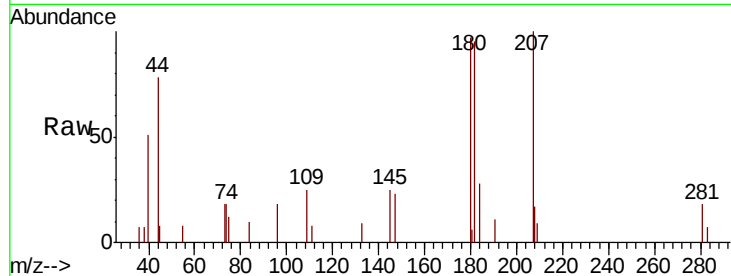




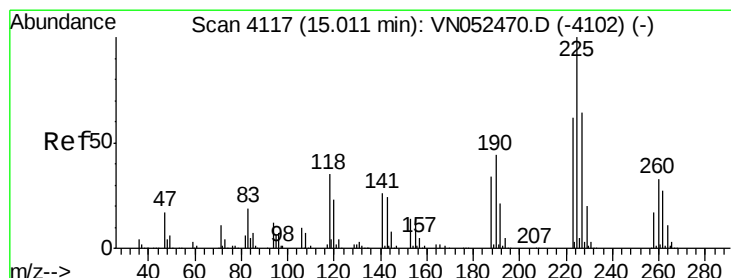
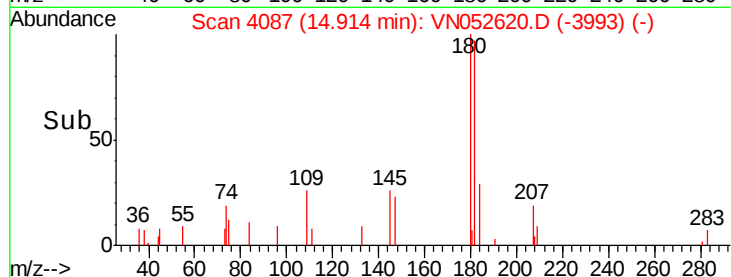
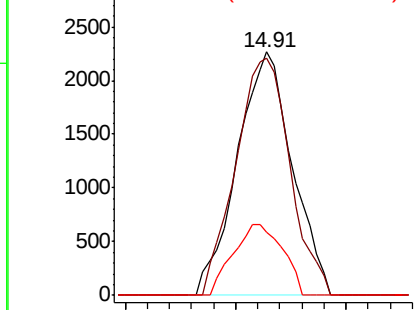
#93
 1,2,4-Trichlorobenzene
 Concen: 3.276 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN052620.D
 Acq: 3 Dec 2018 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1203WBL01

Tot Ion:180 Resp: 3924
 Ion Ratio Lower Upper
 180 100
 182 95.8 47.8 143.4
 145 26.0 14.1 42.3

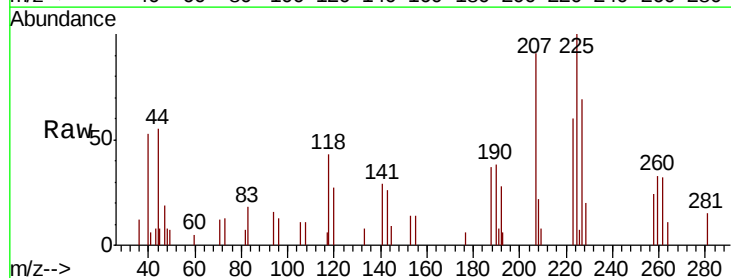


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

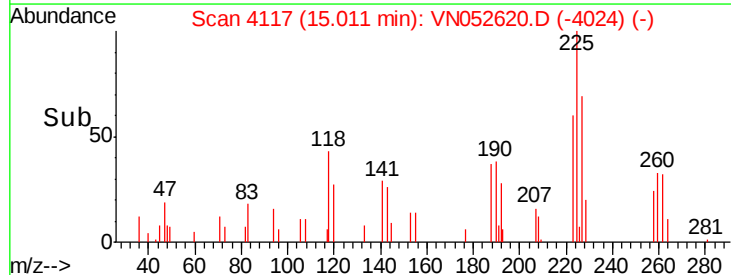
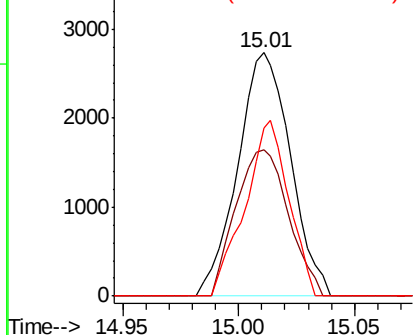


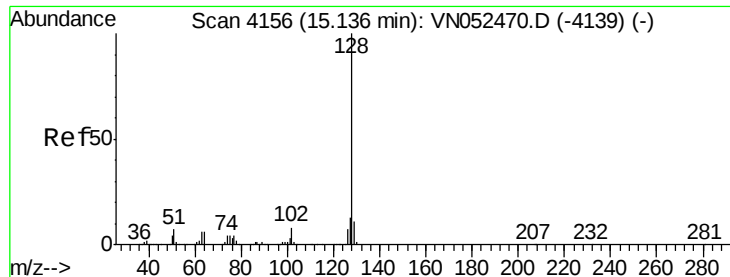
#94
 Hexachlorobutadiene
 Concen: 0.888 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052620.D
 Acq: 3 Dec 2018 9:53

Tgt Ion:225 Resp: 4329
 Ion Ratio Lower Upper
 225 100
 223 59.9 31.4 94.2
 227 59.8 32.5 97.4



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 3.970 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052620.D

Acq: 3 Dec 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VN1203WBL01

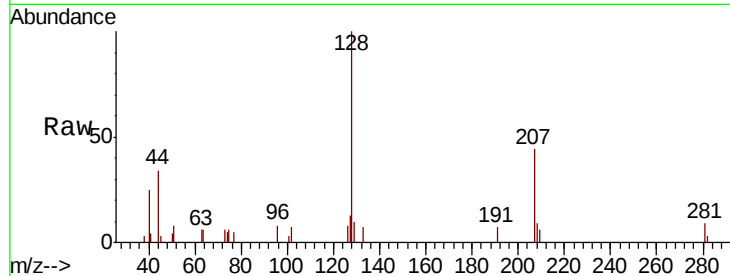
Tot Ion:128 Resp: 10230

Ion Ratio Lower Upper

128 100

127 11.2 10.2 15.2

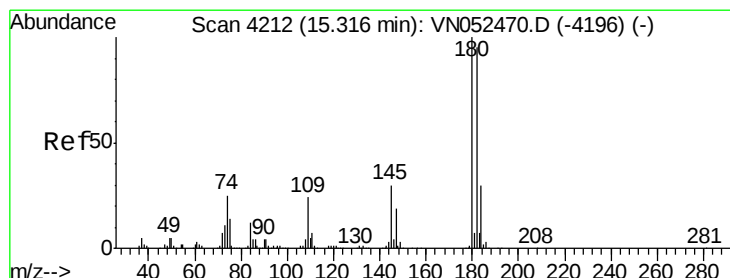
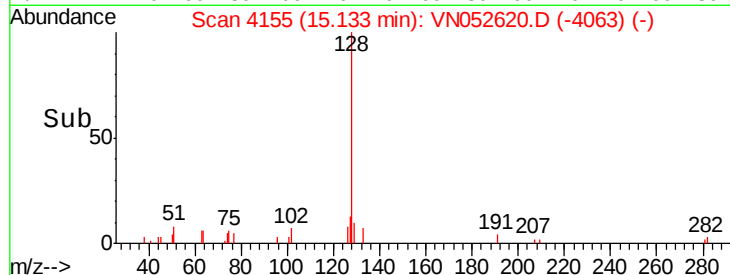
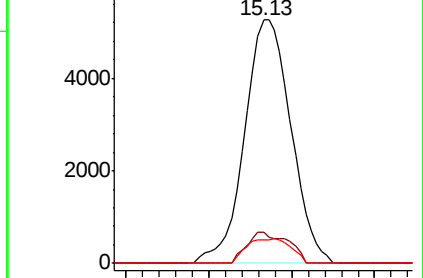
129 9.7 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 3.251 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052620.D

Acq: 3 Dec 2018 9:53

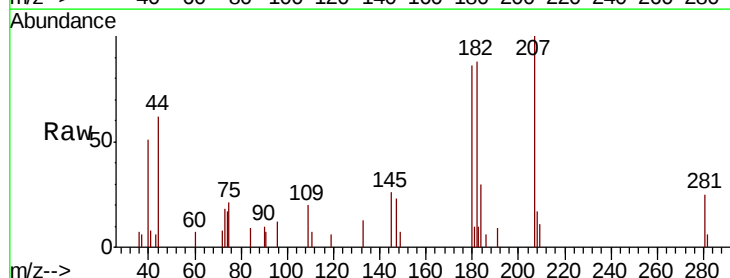
Tgt Ion:180 Resp: 4234

Ion Ratio Lower Upper

180 100

182 105.3 47.8 143.3

145 29.0 15.2 45.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

