

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN013019\
 Data File : VN053569.D
 Acq On : 30 Jan 2019 14:08
 Operator : JC/SP
 Sample : K1277-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 FRAC-TANK-1-2

Quant Time: Jan 31 06:15:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 31 05:27:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	812758	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1301535	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1174091	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	505885	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	415844	51.00	ug/l	0.00
Spiked Amount			Recovery	=	102.00%	
35) Dibromofluoromethane	7.59	113	409123	49.75	ug/l	0.00
Spiked Amount			Recovery	=	99.50%	
50) Toluene-d8	10.09	98	1546377	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
62) 4-Bromofluorobenzene	12.40	95	519823	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	

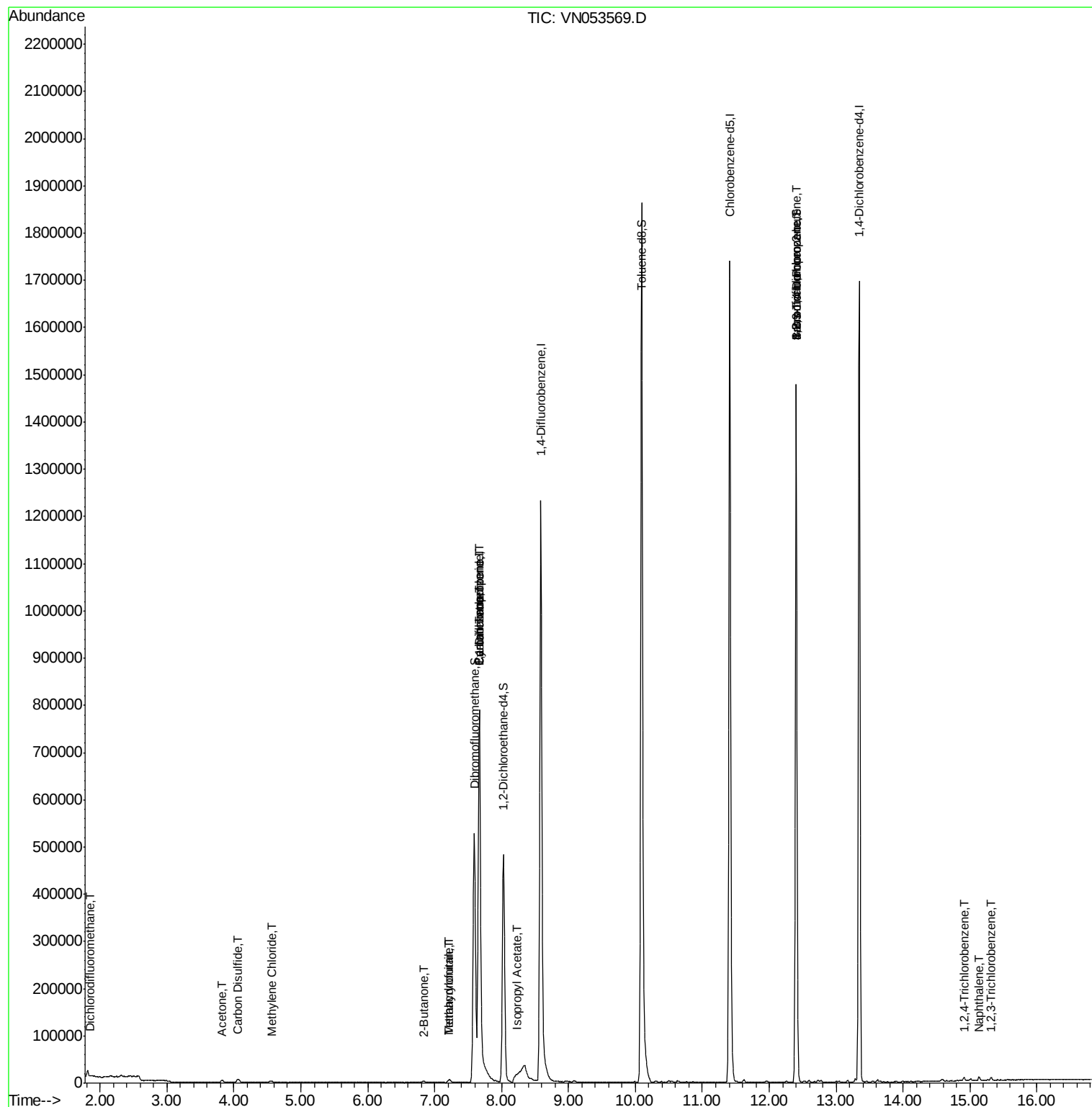
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	836	0.428	ug/l	87
13) Acrolein	3.62	56	92	Below Cal	#	18
16) Acetone	3.82	43	8218	3.929	ug/l	90
17) Carbon Disulfide	4.06	76	6187	0.264	ug/l #	92
20) Methylene Chloride	4.56	84	2669	0.304	ug/l #	73
25) 2-Butanone	6.84	43	626	0.210	ug/l #	47
29) Tetrahydrofuran	7.21	42	5938	3.100	ug/l	100
31) Cyclohexane	7.67	56	11984	0.702	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	48130	4.102	ug/l #	49
38) Carbon Tetrachloride	7.67	117	64987	5.498	ug/l #	15
41) Methacrylonitrile	7.22	41	3364	0.919	ug/l #	38
43) Isopropyl Acetate	8.22	43	15683	1.239	ug/l #	51
71) Bromoform	12.40	173	3377	0.566	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	243310	37.445	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	243310	105.293	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	2827	0.299	ug/l	98
95) Naphthalene	15.13	128	7545	2.064	ug/l	97
96) 1,2,3-Trichlorobenzene	15.31	180	2983	0.340	ug/l	96

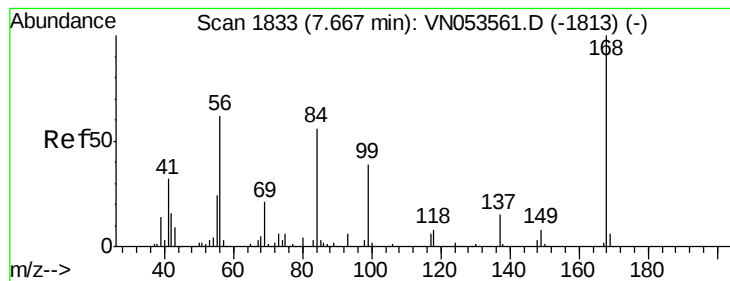
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN053569.D

Acq: 30 Jan 2019 14:08

Instrument :

MSVOA_N

ClientSampleId :

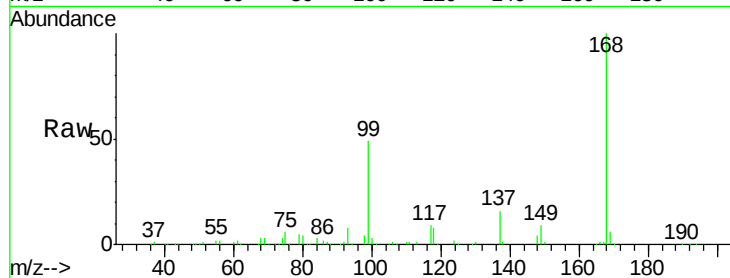
FRAC-TANK-1-2

Tot Ion:168 Resp: 812758

Ion Ratio Lower Upper

168 100

99 48.5 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

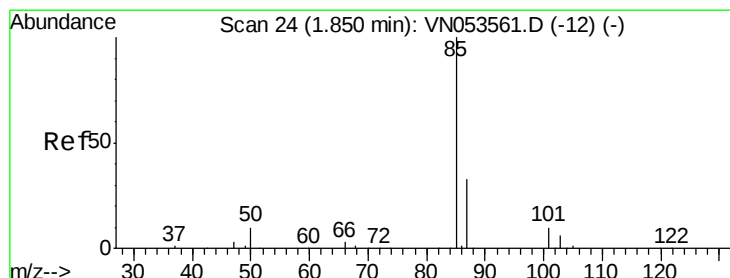
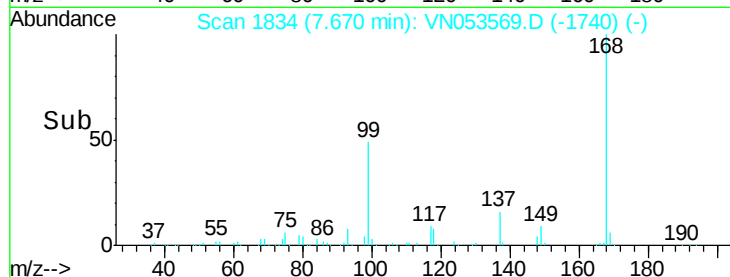
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: 0.428 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053569.D

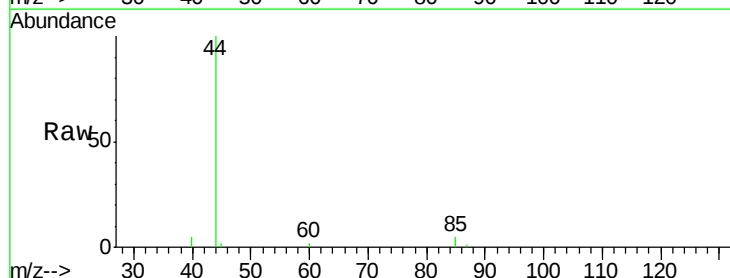
Acq: 30 Jan 2019 14:08

Tgt Ion: 85 Resp: 836

Ion Ratio Lower Upper

85 100

87 25.1 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

800

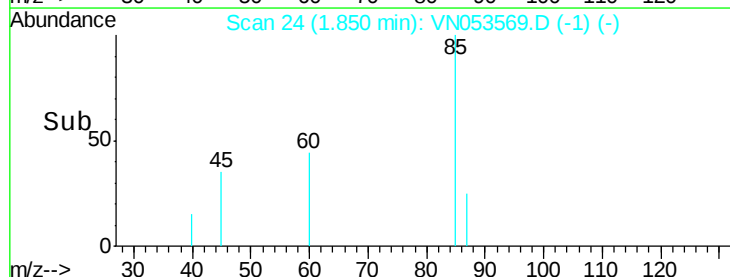
600

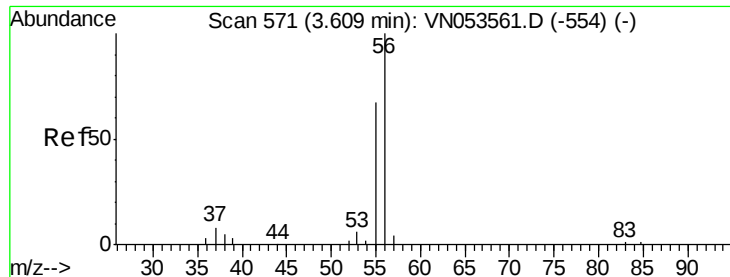
400

200

0

Time--> 1.82 1.84 1.86 1.88





#13

Acrolein

Concen: Below Cal

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN053569.D

Acq: 30 Jan 2019 14:08

Instrument :

MSVOA_N

ClientSampleId :

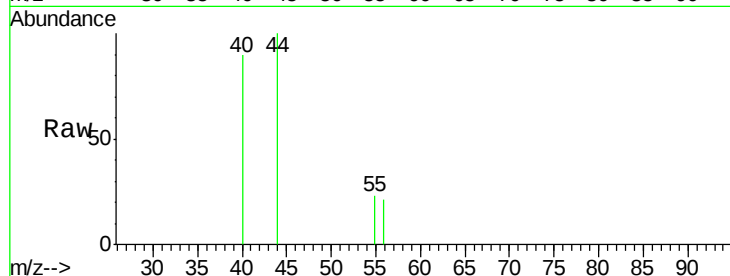
FRAC-TANK-1-2

Tot Ion: 56 Resp: 92

Ion Ratio Lower Upper

56 100

55 140.2 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VN053569.D (-554) (-)

Ion 55.00 (54.70 to 55.70): VN053569.D (-554) (-)

3.62

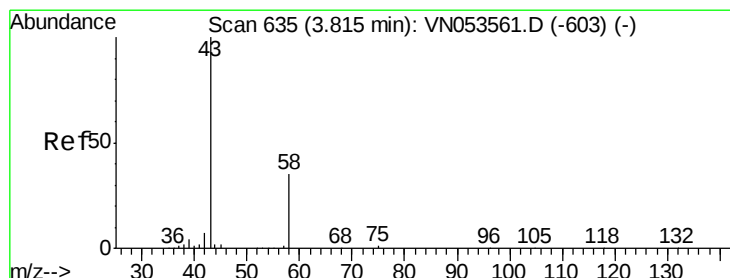
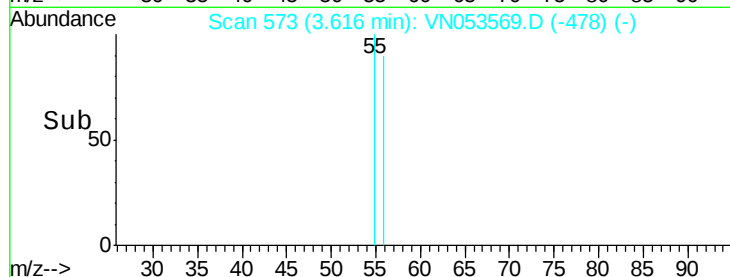
150

100

50

0

Time-->



#16

Acetone

Concen: 3.929 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053569.D

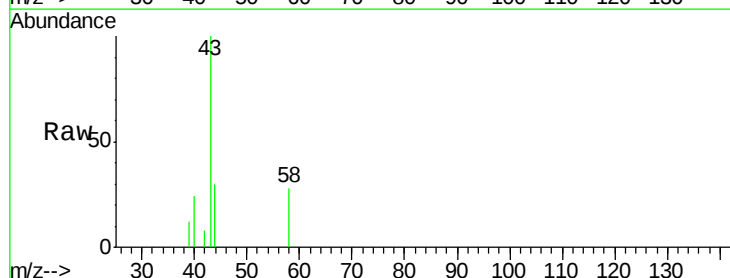
Acq: 30 Jan 2019 14:08

Tgt Ion: 43 Resp: 8218

Ion Ratio Lower Upper

43 100

58 28.0 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053569.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN053569.D (-542) (-)

3.82

3000

2500

2000

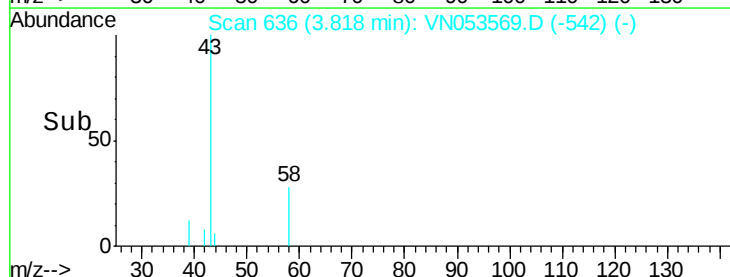
1500

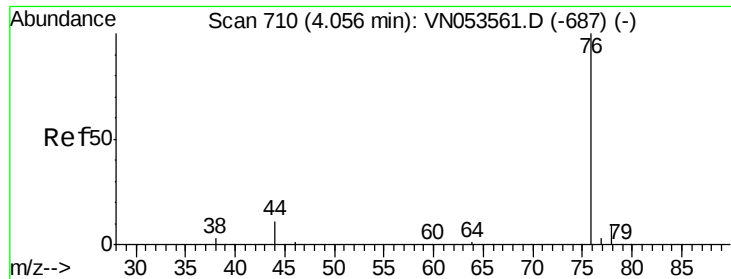
1000

500

0

Time-->





#17

Carbon Disulfide

Concen: 0.264 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN053569.D

Acq: 30 Jan 2019 14:08

Instrument :

MSVOA_N

ClientSampleId :

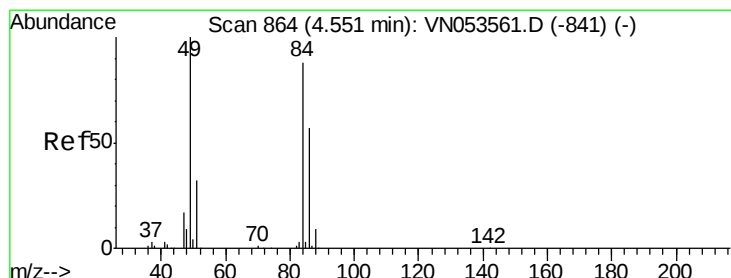
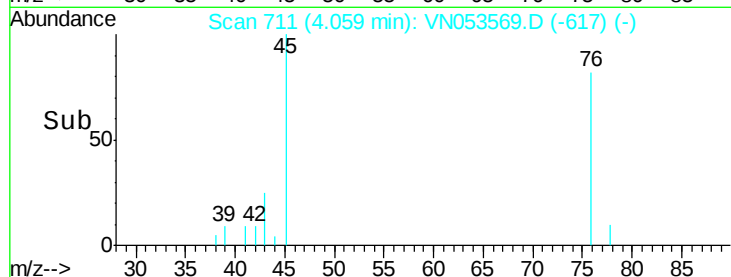
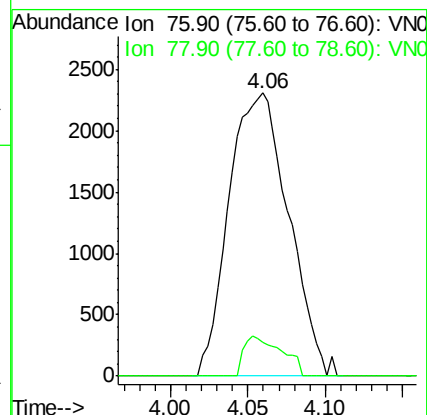
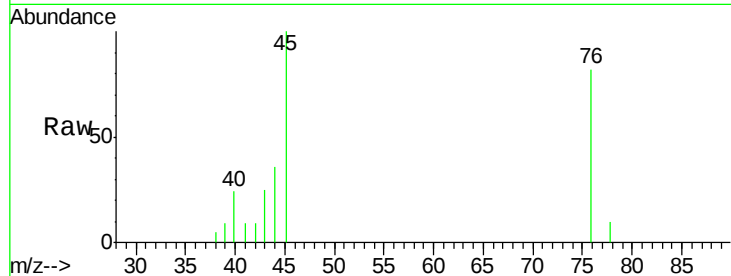
FRAC-TANK-1-2

Tot Ion: 76 Resp: 6187

Ion Ratio Lower Upper

76 100

78 12.1 7.3 10.9#



#20

Methylene Chloride

Concen: 0.304 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.01 min

Lab File: VN053569.D

Acq: 30 Jan 2019 14:08

Tgt Ion: 84 Resp: 2669

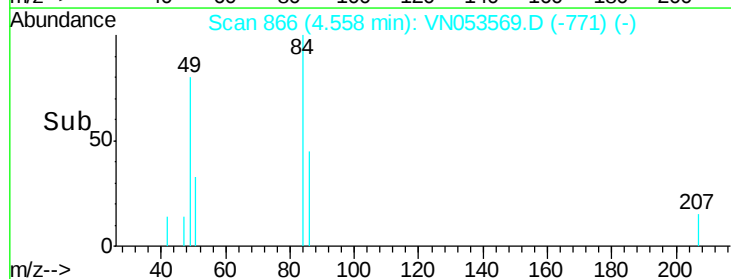
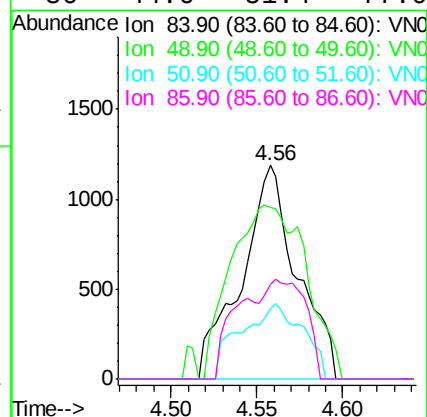
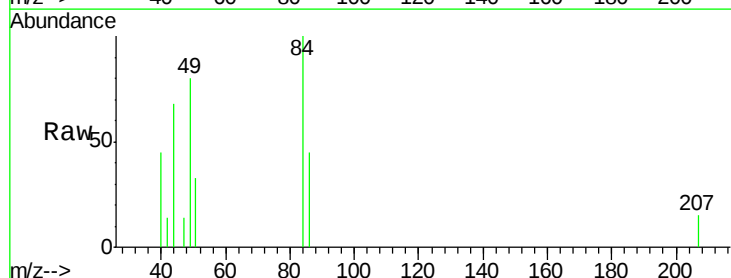
Ion Ratio Lower Upper

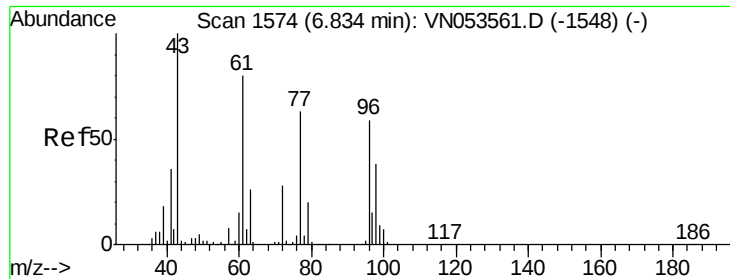
84 100

49 80.4 94.3 141.5#

51 32.7 29.4 44.2

86 44.6 51.4 77.0#





#25

2-Butanone

Concen: 0.210 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN053569.D

Acq: 30 Jan 2019 14:08

Instrument :

MSVOA_N

ClientSampleId :

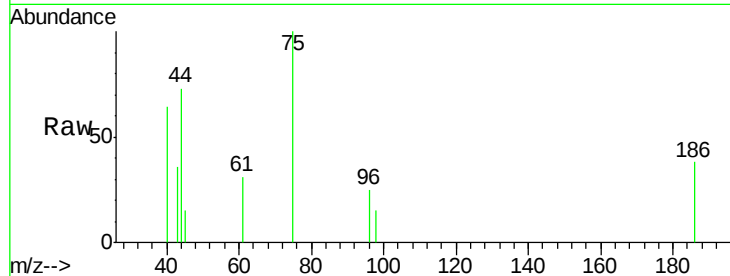
FRAC-TANK-1-2

Tot Ion: 43 Resp: 626

Ion Ratio Lower Upper

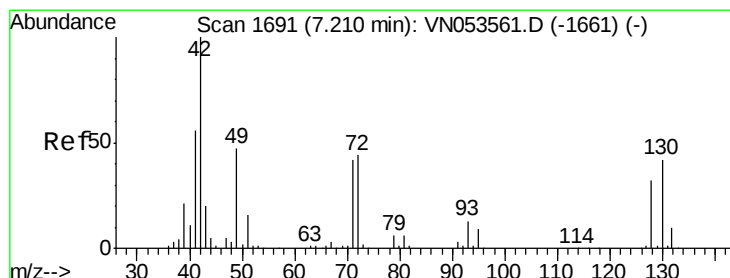
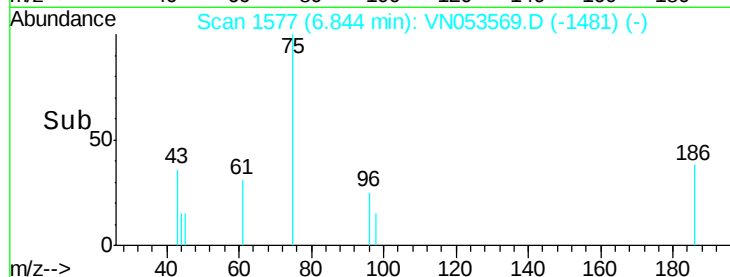
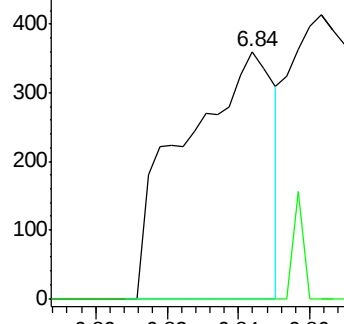
43 100

72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 3.100 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN053569.D

Acq: 30 Jan 2019 14:08

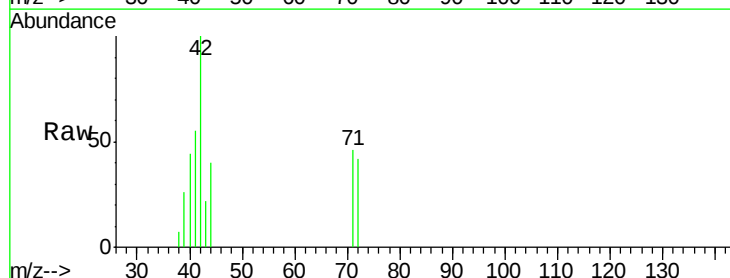
Tgt Ion: 42 Resp: 5938

Ion Ratio Lower Upper

42 100

72 44.3 35.2 52.8

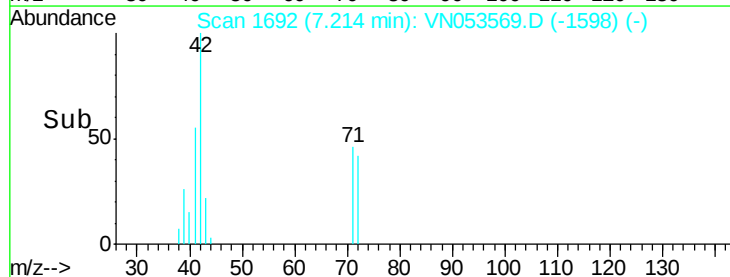
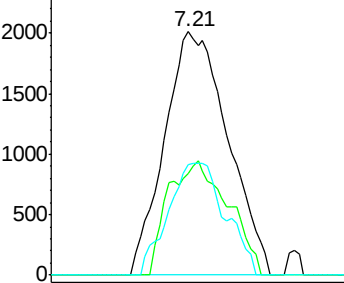
71 41.1 33.0 49.4

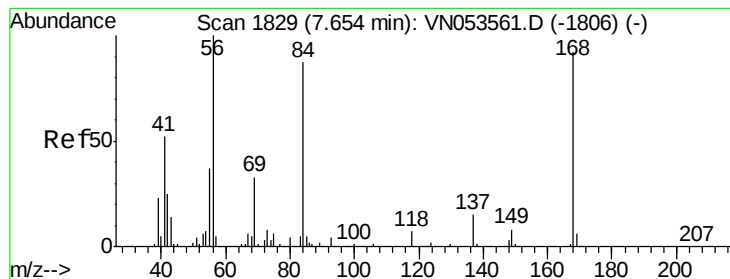


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 0.702 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053569.D

Acq: 30 Jan 2019 14:08

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-1-2

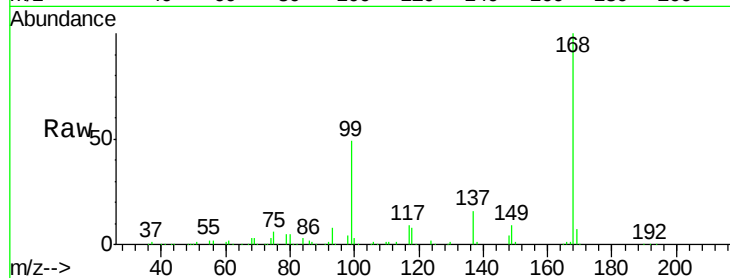
Tot Ion: 56 Resp: 11984

Ion Ratio Lower Upper

56 100

69 183.9 26.4 39.6#

84 161.3 67.9 101.9#



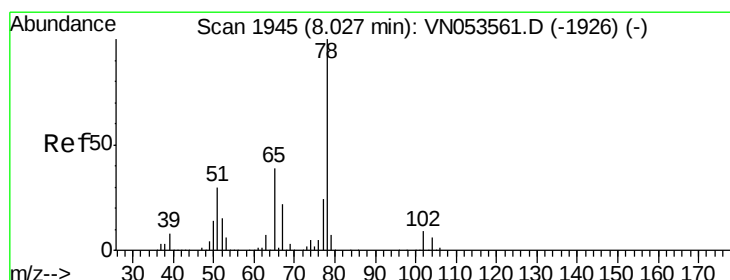
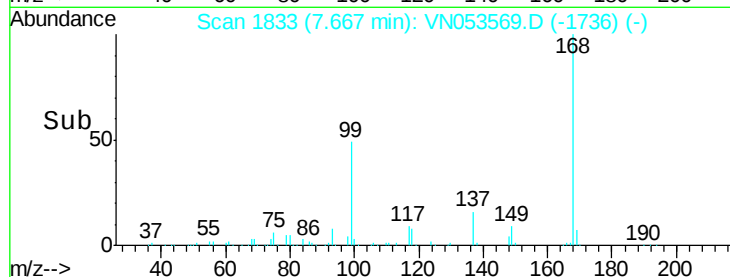
Abundance Ion 56.00 (55.70 to 56.70): VN053569.D (-1736) (-)

Ion 69.00 (68.70 to 69.70): VN053569.D (-1736) (-)

Ion 84.00 (83.70 to 84.70): VN053569.D (-1736) (-)

7.67

Time-->



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053569.D

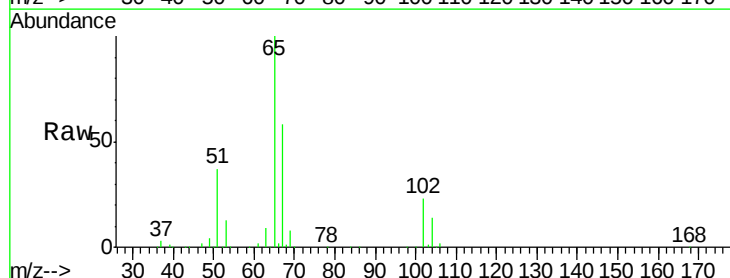
Acq: 30 Jan 2019 14:08

Tgt Ion: 65 Resp: 415844

Ion Ratio Lower Upper

65 100

67 55.2 0.0 111.2

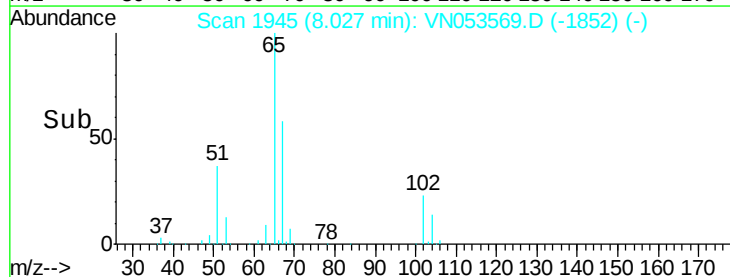


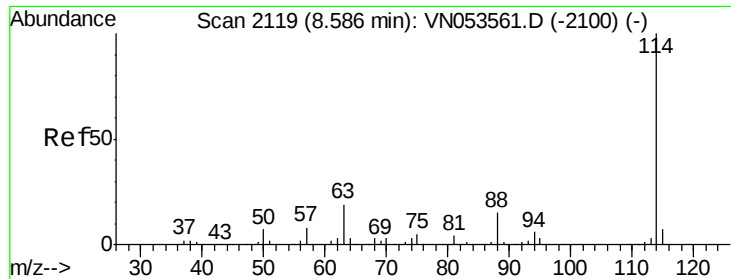
Abundance Ion 64.90 (64.60 to 65.60): VN053569.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN053569.D (-1852) (-)

8.03

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN053569.D

Acq: 30 Jan 2019 14:08

Instrument :

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FRAC-TANK-1-2

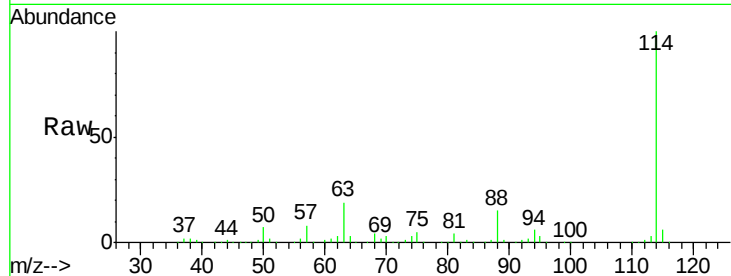
Tot Ion:114 Resp: 1301535

Ion Ratio Lower Upper

114 100

63 19.2 0.0 38.6

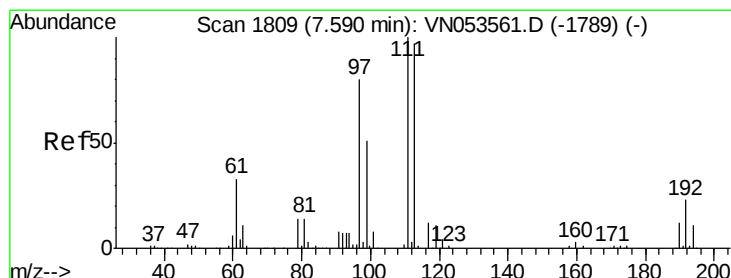
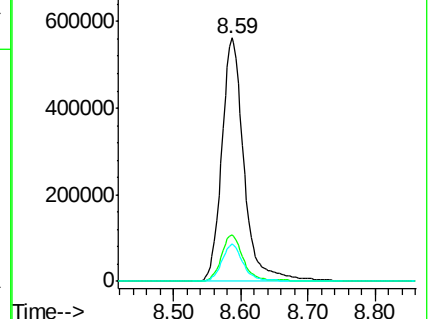
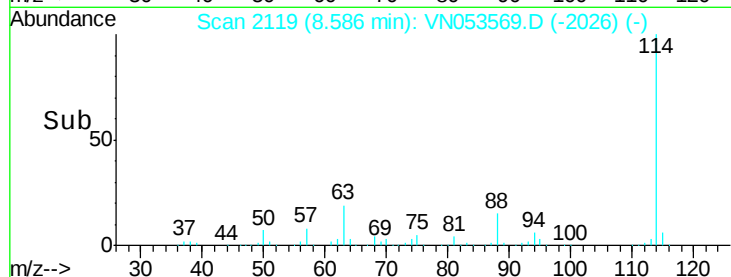
88 15.3 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053569.D

Acq: 30 Jan 2019 14:08

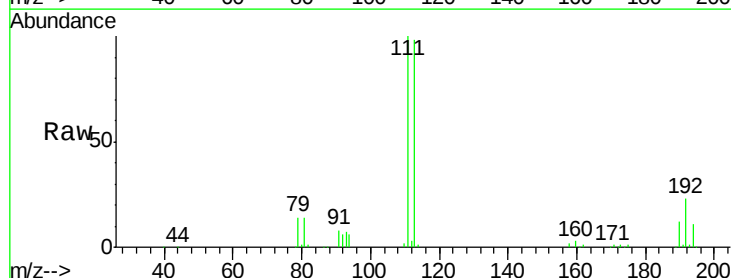
Tgt Ion:113 Resp: 409123

Ion Ratio Lower Upper

113 100

111 101.9 81.1 121.7

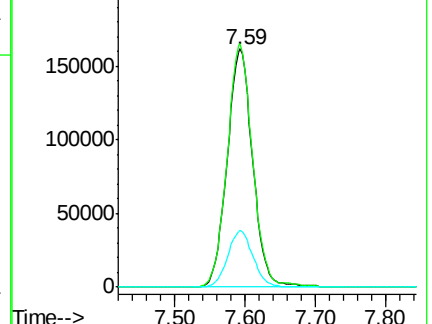
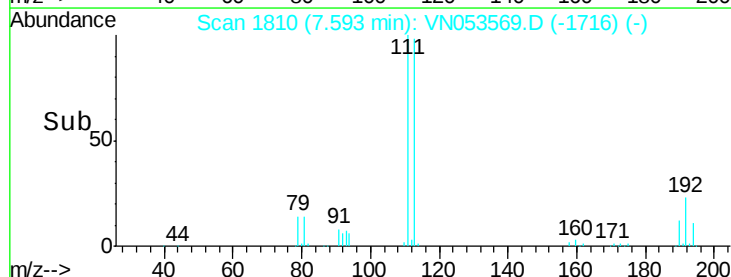
192 23.7 18.2 27.2

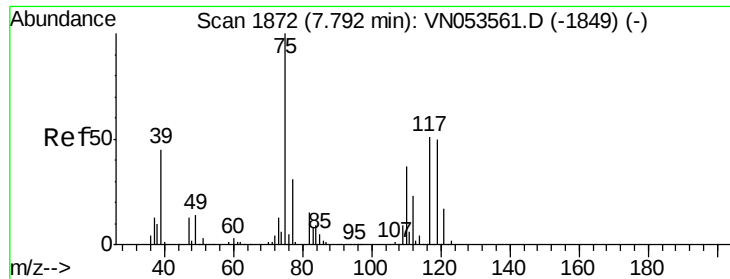


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.102 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN053569.D

Acq: 30 Jan 2019 14:08

Instrument :

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ClientSampleId :

FRAC-TANK-1-2

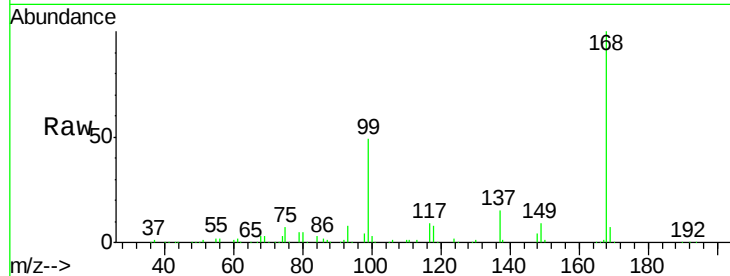
Tot Ion: 75 Resp: 48130

Ion Ratio Lower Upper

75 100

110 8.9 18.1 54.3#

77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN053569.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN053569.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN053569.D (-1779) (-)

Time-->

7.55 7.60 7.65 7.70 7.75

7.66

20000

15000

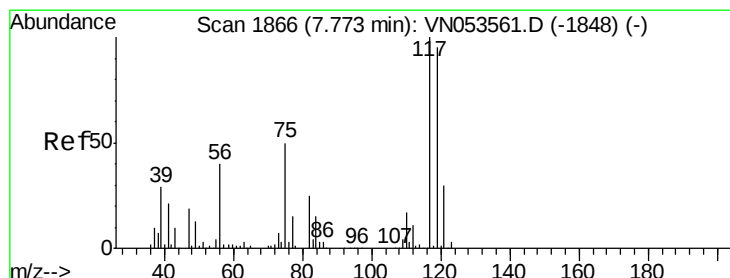
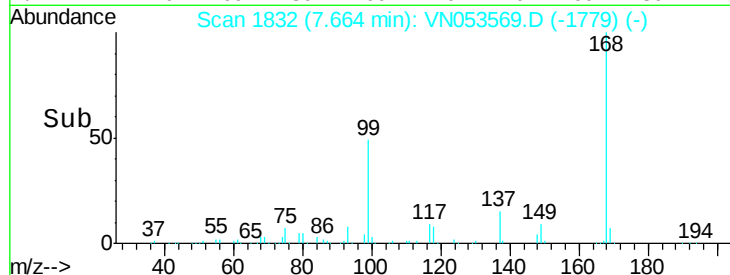
10000

5000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#38

Carbon Tetrachloride

Concen: 5.498 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053569.D

Acq: 30 Jan 2019 14:08

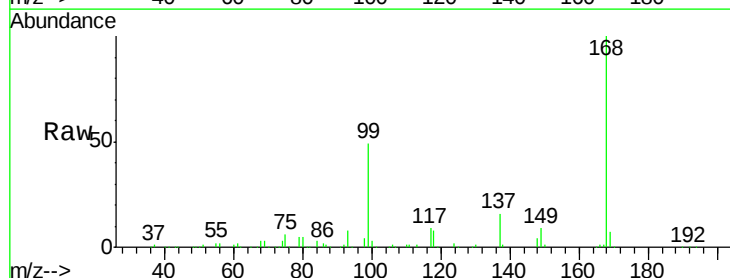
Tgt Ion: 117 Resp: 64987

Ion Ratio Lower Upper

117 100

119 4.5 77.2 115.8#

121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): VN053569.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN053569.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN053569.D (-1773) (-)

Time-->

7.60 7.65 7.70 7.75

7.67

30000

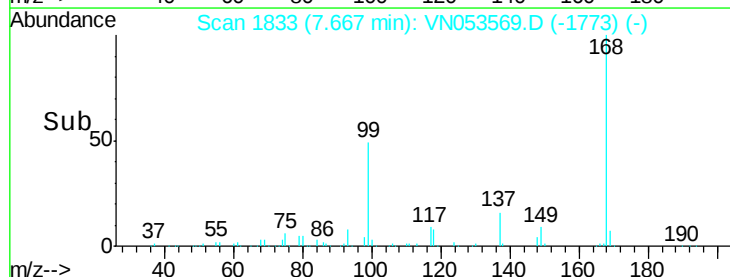
20000

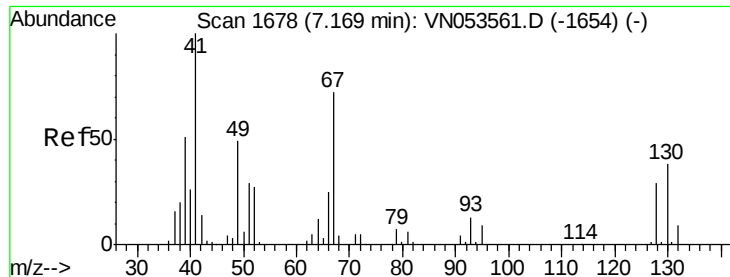
10000

0

7.60 7.65 7.70 7.75

Time-->

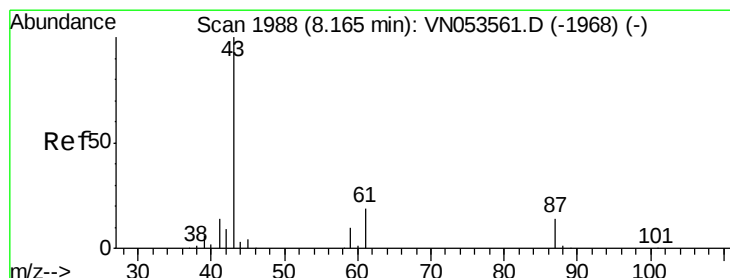
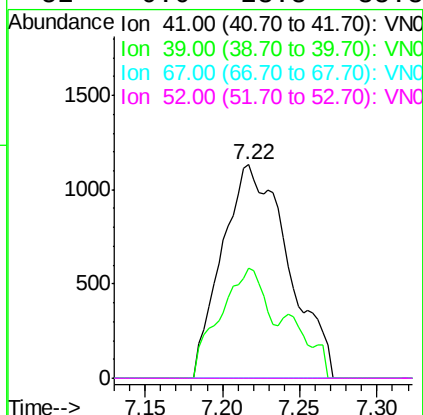
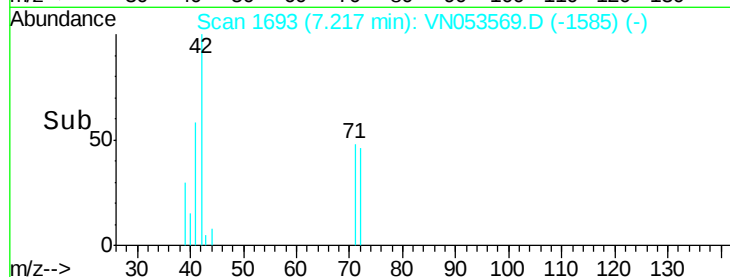
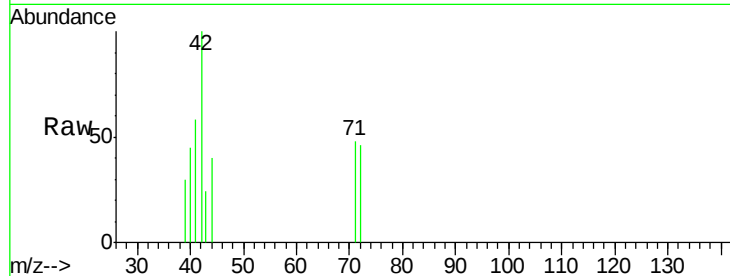




#41
Methacrylonitrile
Concen: 0.919 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.05 min
Lab File: VN053569.D
Acq: 30 Jan 2019 14:08

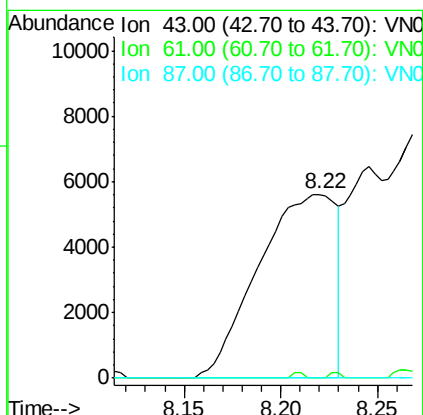
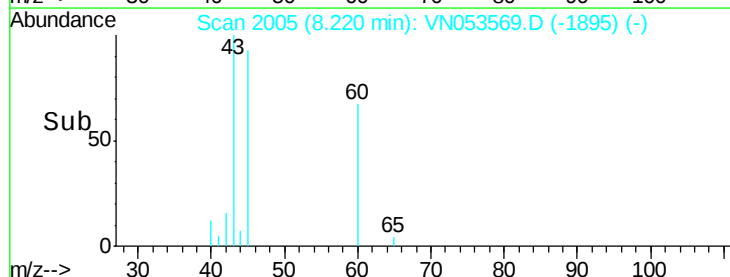
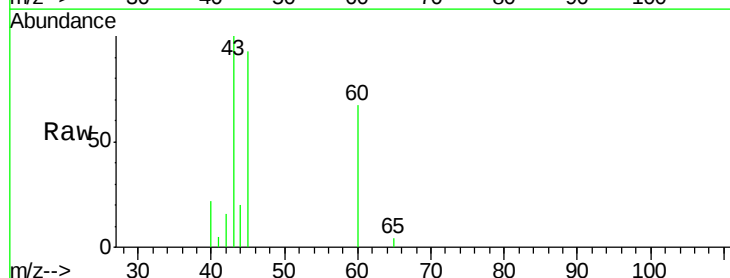
Instrument :
MSVOA_N
ClientSampled :
FRAC-TANK-1-2

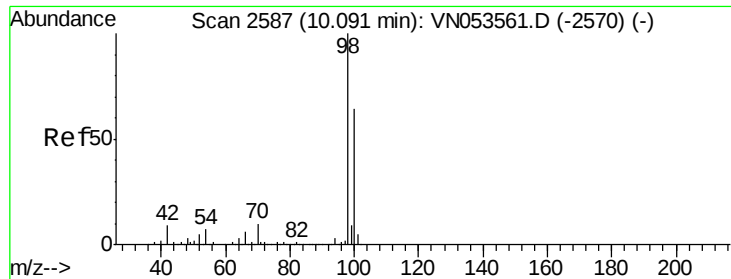
Tot Ion: 41 Resp: 3364
Ion Ratio Lower Upper
41 100
39 37.5 46.8 70.2#
67 0.0 63.0 94.6#
52 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 1.239 ug/l
RT: 8.22 min Scan# 2005
Delta R.T. 0.05 min
Lab File: VN053569.D
Acq: 30 Jan 2019 14:08

Tgt Ion: 43 Resp: 15683
Ion Ratio Lower Upper
43 100
61 0.0 23.9 35.9#
87 0.0 11.0 16.6#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053569.D

Acq: 30 Jan 2019 14:08

Instrument :

MSVOA_N

ClientSampleId :

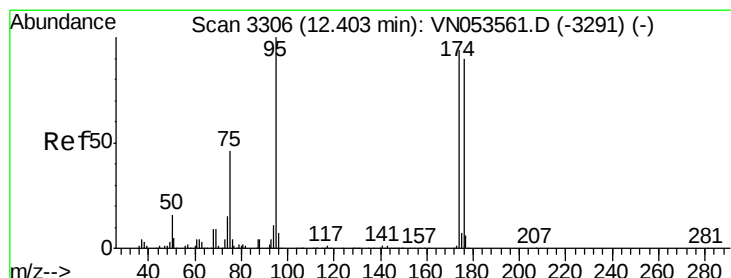
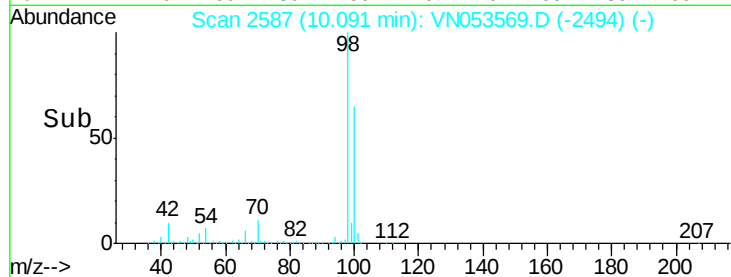
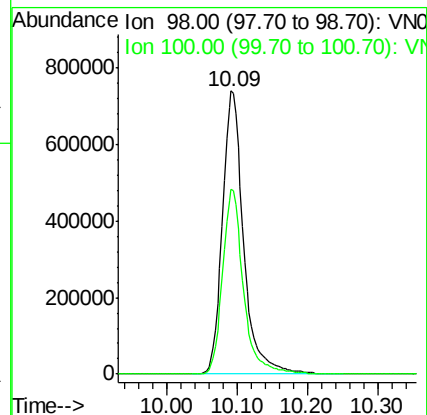
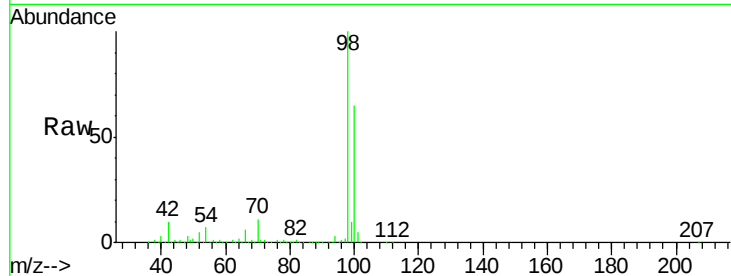
FRAC-TANK-1-2

Tot Ion: 98 Resp: 1546377

Ion Ratio Lower Upper

98 100

100 64.6 51.4 77.0



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN053569.D

Acq: 30 Jan 2019 14:08

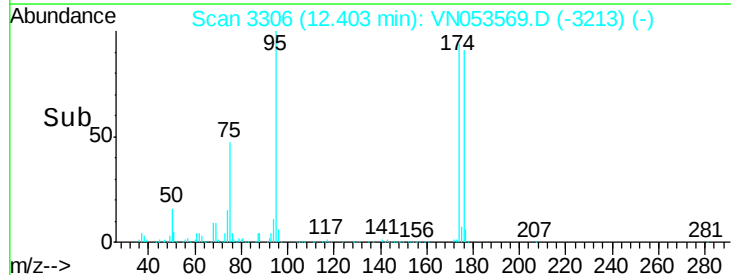
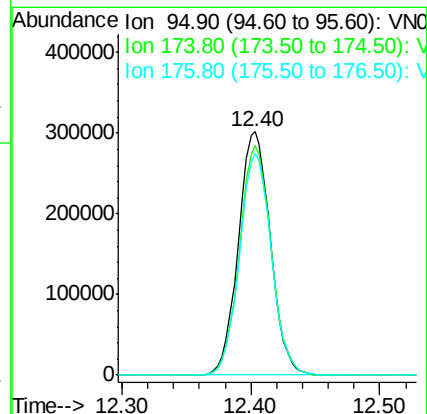
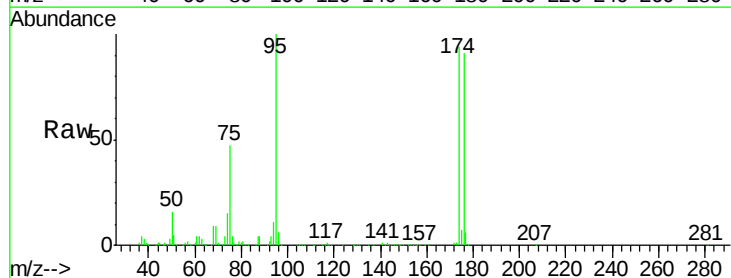
Tgt Ion: 95 Resp: 519823

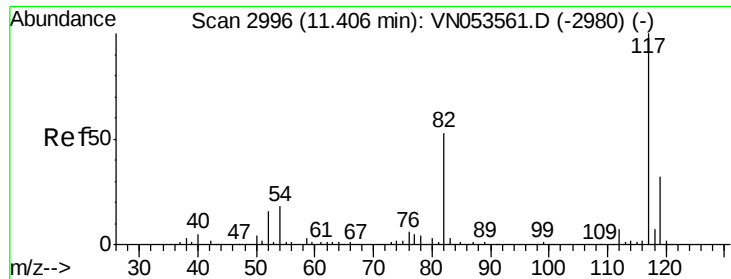
Ion Ratio Lower Upper

95 100

174 93.5 0.0 183.2

176 90.4 0.0 177.4

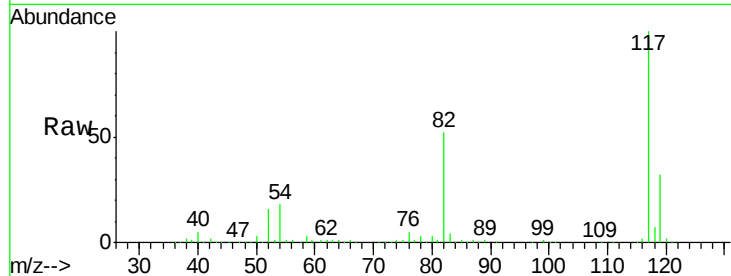




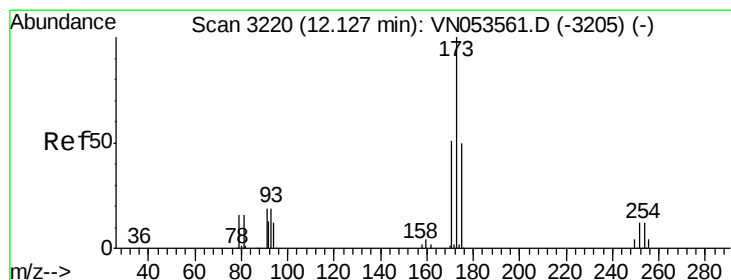
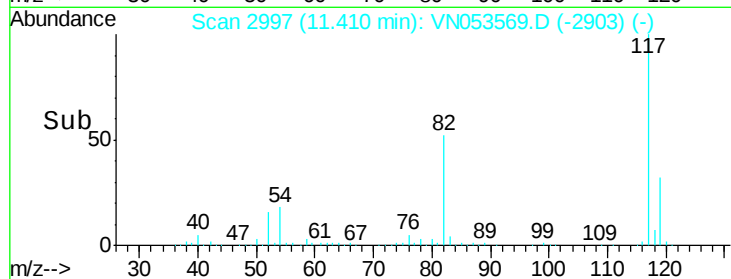
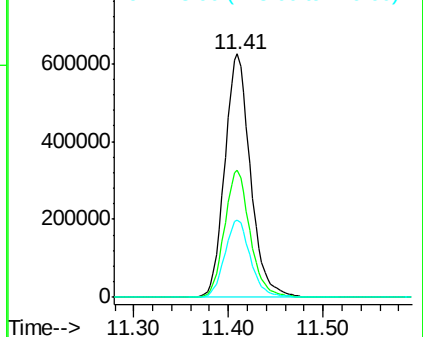
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053569.D
Acq: 30 Jan 2019 14:08

Instrument :
MSVOA_N
ClientSampleId :
FRAC-TANK-1-2

Tot Ion:117 Resp: 1174091
Ion Ratio Lower Upper
117 100
82 52.2 42.9 64.3
119 31.9 26.0 39.0

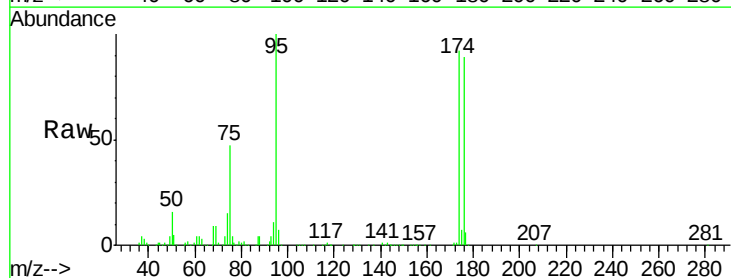


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

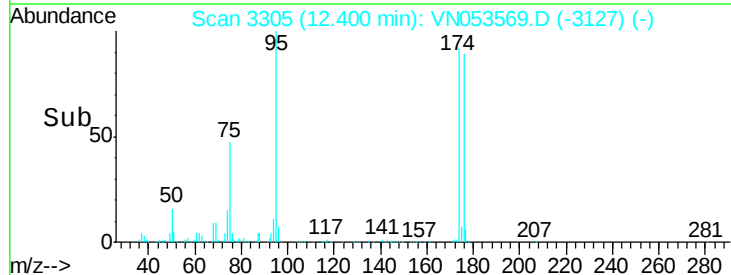
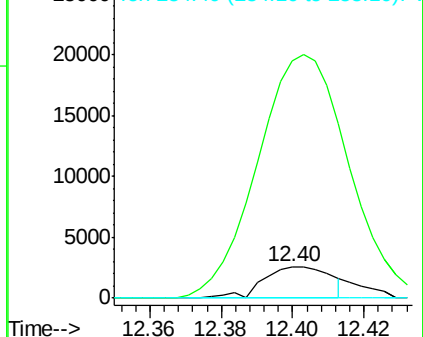


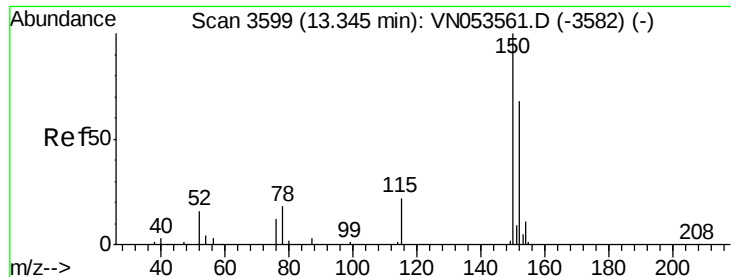
#71
Bromoform
Concen: 0.566 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053569.D
Acq: 30 Jan 2019 14:08

Tgt Ion:173 Resp: 3377
Ion Ratio Lower Upper
173 100
175 875.1 24.6 74.0#
254 0.0 0.2 0.2#



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: VN053569.D

Acq: 30 Jan 2019 14:08

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-1-2

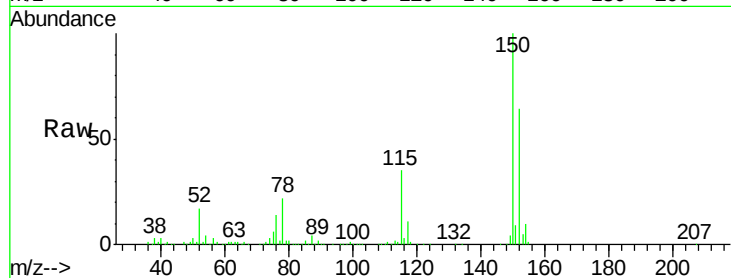
Tot Ion:152 Resp: 505885

Ion Ratio Lower Upper

152 100

115 55.1 27.8 83.4

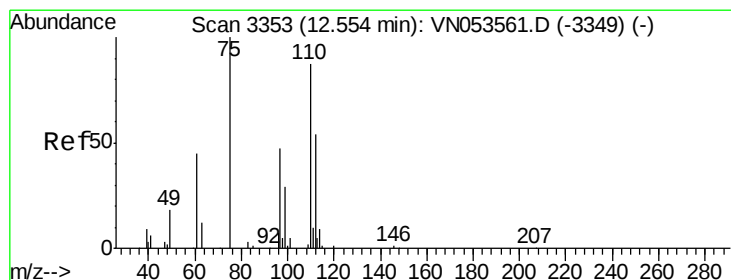
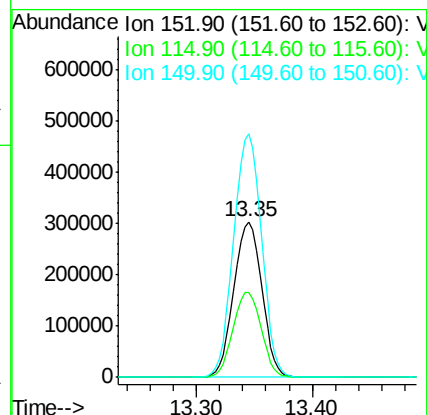
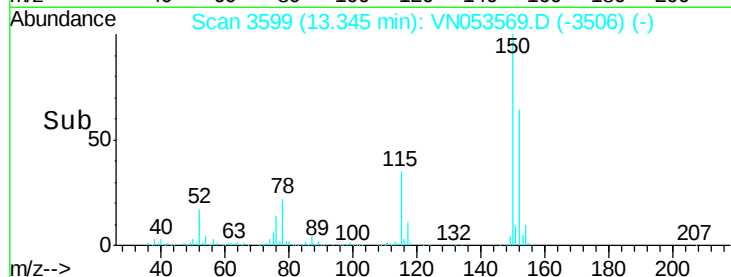
150 156.4 0.0 349.0



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: 37.445 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053569.D

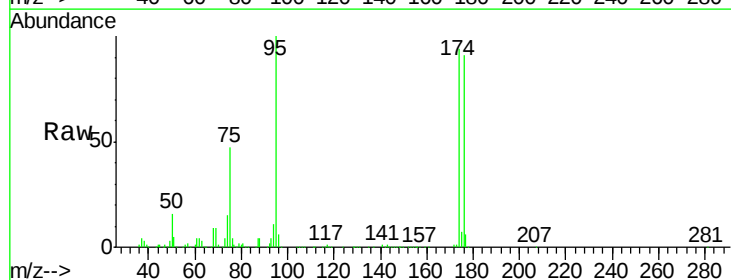
Acq: 30 Jan 2019 14:08

Tgt Ion: 75 Resp: 243310

Ion Ratio Lower Upper

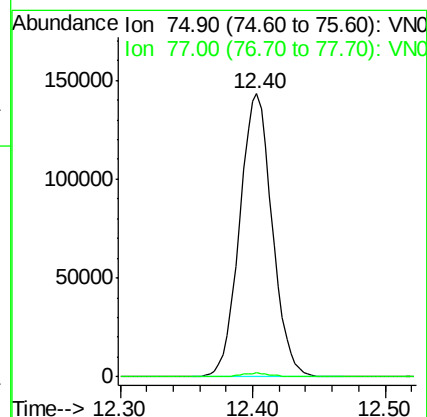
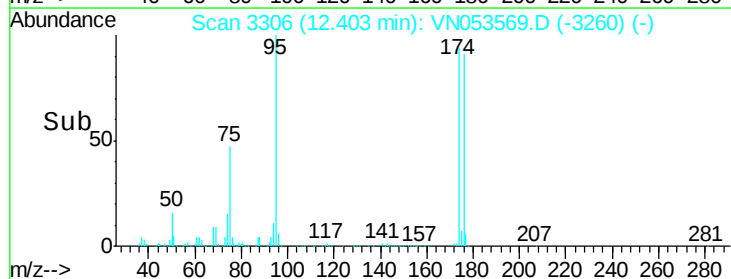
75 100

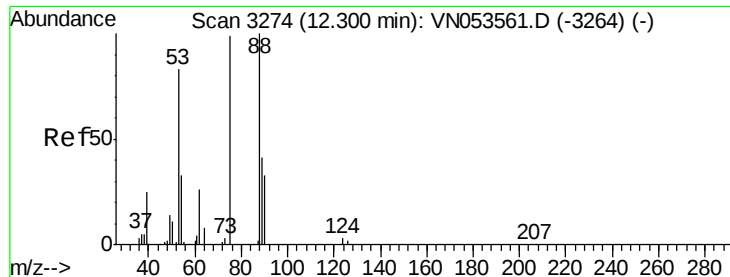
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 105.293 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053569.D

Acq: 30 Jan 2019 14:08

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-1-2

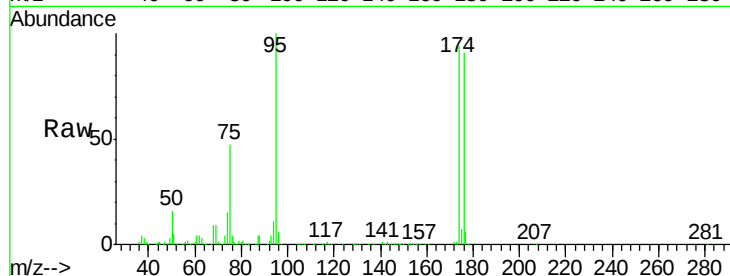
Tot Ion: 75 Resp: 243310

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

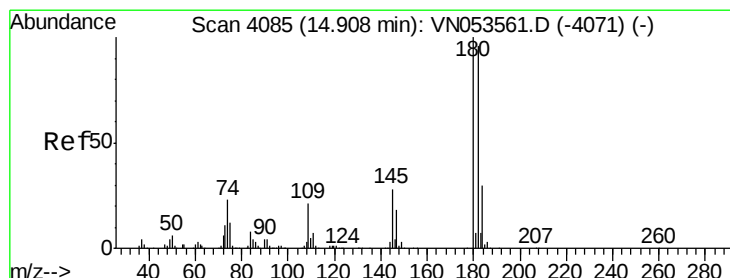
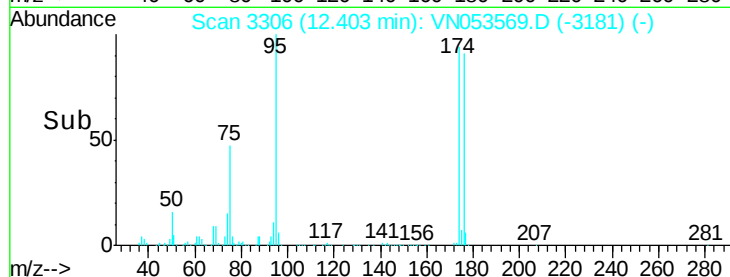
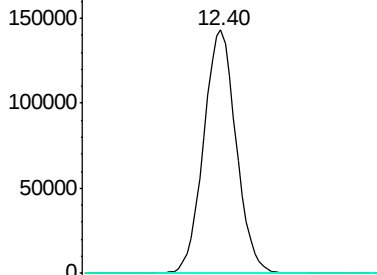
89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053569.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN053569.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN053569.D (-3306) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.299 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN053569.D

Acq: 30 Jan 2019 14:08

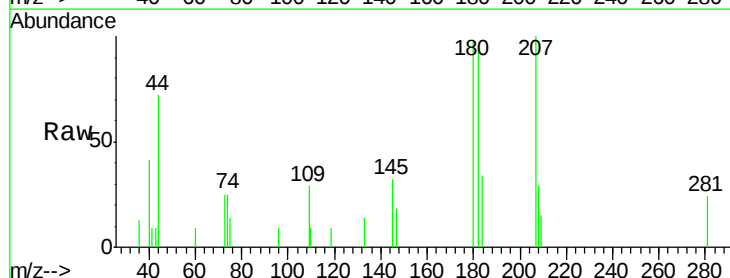
Tgt Ion: 180 Resp: 2827

Ion Ratio Lower Upper

180 100

182 98.2 48.1 144.3

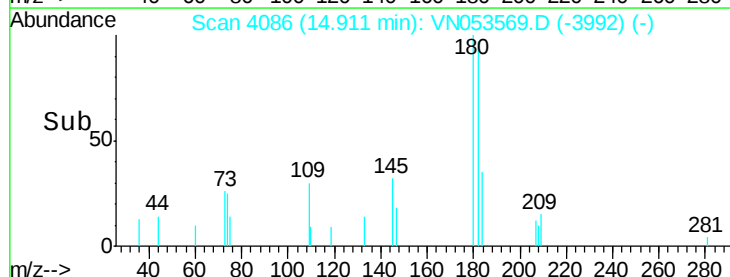
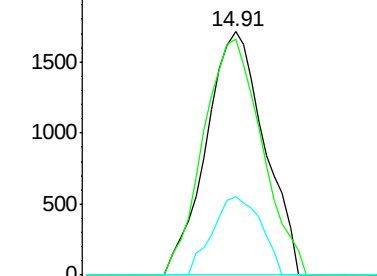
145 26.9 13.9 41.6

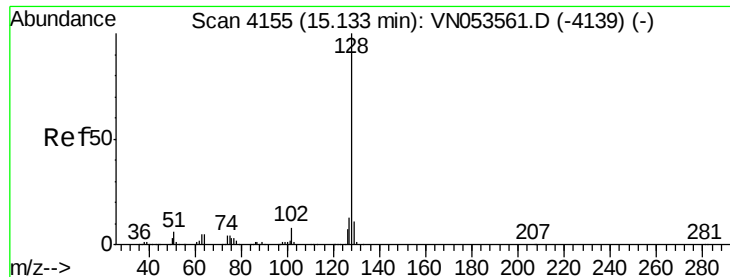


Abundance Ion 179.80 (179.50 to 180.50): VN053569.D (-4086) (-)

Ion 181.80 (181.50 to 182.50): VN053569.D (-4086) (-)

Ion 144.80 (144.50 to 145.50): VN053569.D (-4086) (-)





#95

Naphthalene

Concen: 2.064 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053569.D

Acq: 30 Jan 2019 14:08

Instrument :

MSVOA_N

ClientSampleId :

FRAC-TANK-1-2

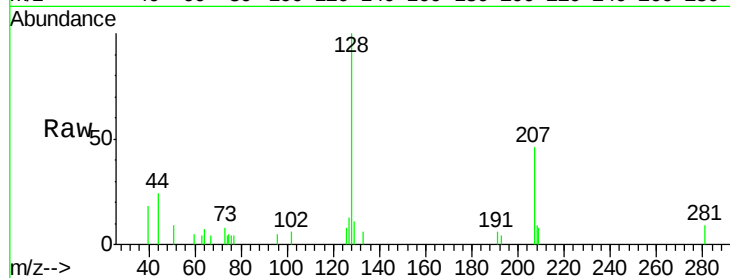
Tot Ion:128 Resp: 7545

Ion Ratio Lower Upper

128 100

127 13.3 10.3 15.5

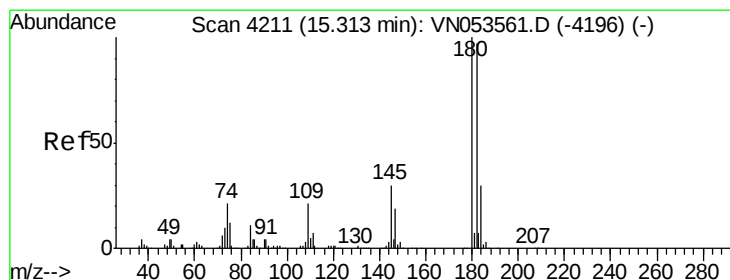
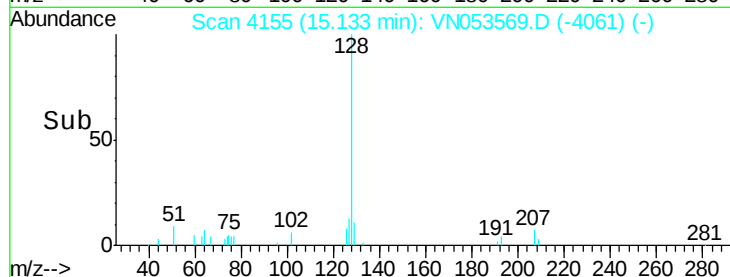
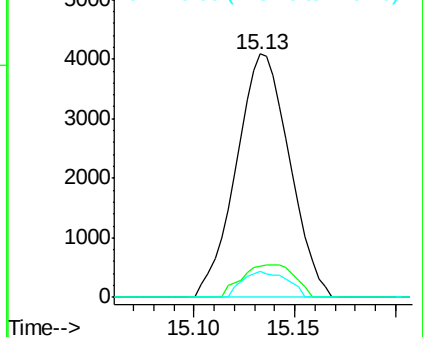
129 9.0 8.6 13.0



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: 0.340 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN053569.D

Acq: 30 Jan 2019 14:08

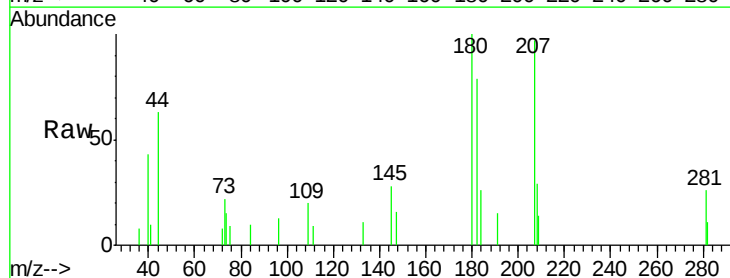
Tgt Ion:180 Resp: 2983

Ion Ratio Lower Upper

180 100

182 95.0 47.9 143.8

145 36.3 14.7 44.1



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

