

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061319\
 Data File : VN056277.D
 Acq On : 13 Jun 2019 13:32
 Operator : JC/SP
 Sample : K3345-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 14 01:11:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	341127	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	571516	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	561956	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	166054	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	194126	57.31	ug/l	0.00
Spiked Amount			Recovery	=	114.62%	
35) Dibromofluoromethane	7.59	113	178752	50.98	ug/l	0.00
Spiked Amount			Recovery	=	101.96%	
50) Toluene-d8	10.09	98	711423	52.73	ug/l	0.00
Spiked Amount			Recovery	=	105.46%	
62) 4-Bromofluorobenzene	12.40	95	221579	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	

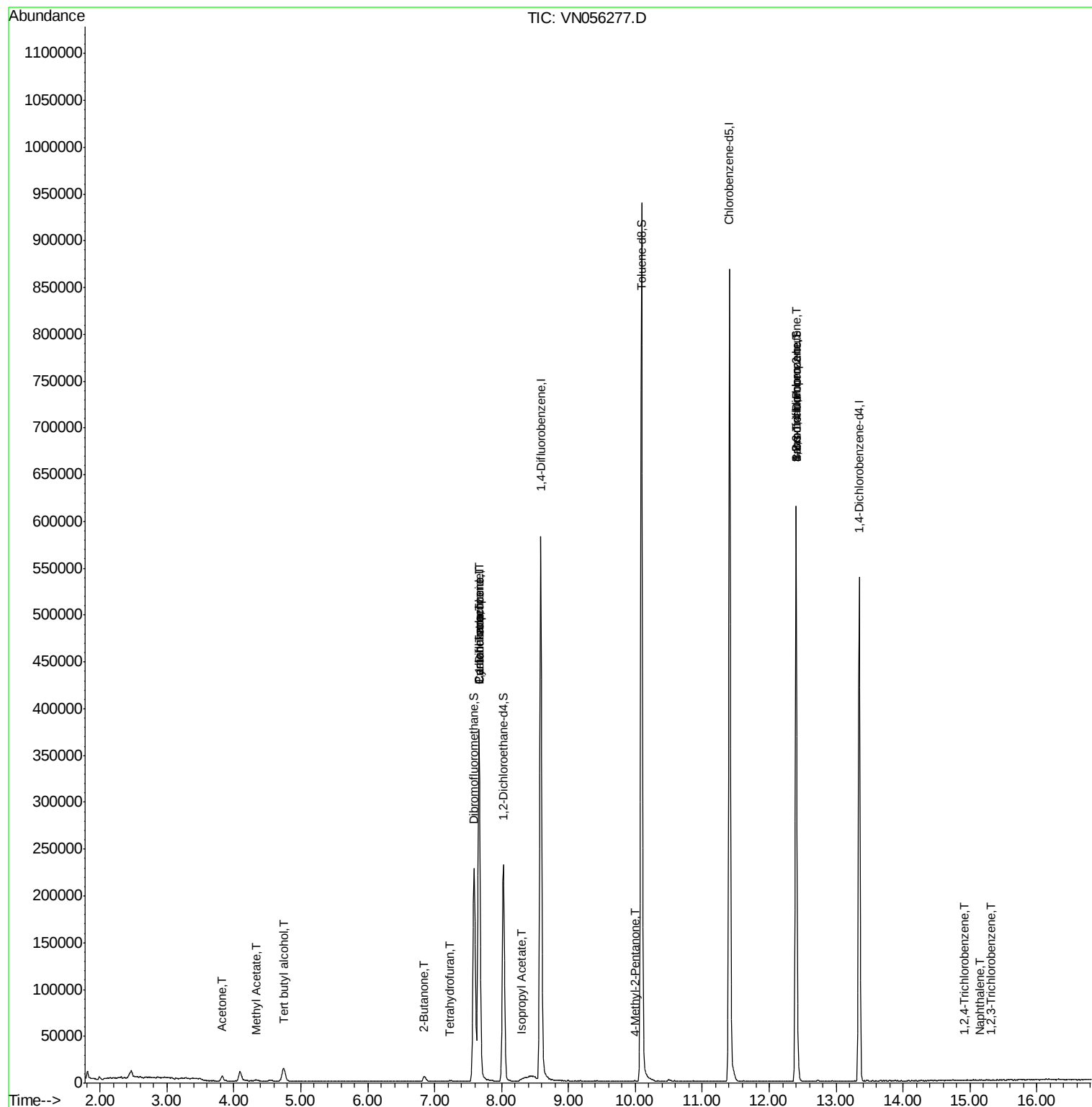
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	13924	23.623	ug/l #	74
16) Acetone	3.82	43	8845	5.460	ug/l	95
18) Methyl Acetate	4.34	43	3573	0.551	ug/l #	61
25) 2-Butanone	6.85	43	484	0.236	ug/l #	47
29) Tetrahydrofuran	7.23	42	653	0.516	ug/l #	47
31) Cyclohexane	7.66	56	5233	0.974	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	21906	4.458	ug/l #	48
38) Carbon Tetrachloride	7.66	117	30368	6.703	ug/l #	15
43) Isopropyl Acetate	8.30	43	2832	0.400	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	1141	0.258	ug/l #	35
71) Bromoform	12.40	173	1460	3.168	ug/l #	1
73) Isopropylbenzene	12.40	105	129	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	104216	34.108	ug/l #	100
79) 2-Chlorotoluene	12.59	91	134	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	104216	113.586	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	91	4.297	ug/l #	12
95) Naphthalene	15.14	128	208	3.875	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	206	3.093	ug/l #	12

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056277.D

Acq: 13 Jun 2019 13:32

Instrument :

MSVOA_N

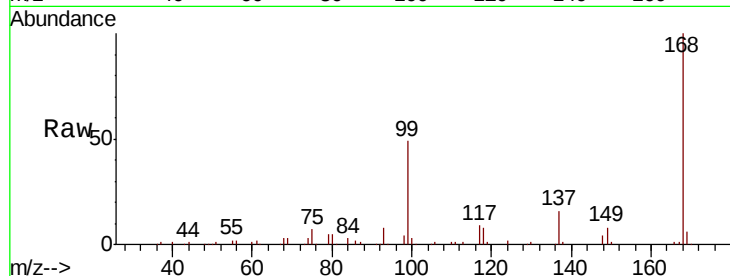
ClientSampleId :

Tot Ion:168 Resp: 341127

Ion Ratio Lower Upper

168 100

99 49.1 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1812) (-)

7.66

150000

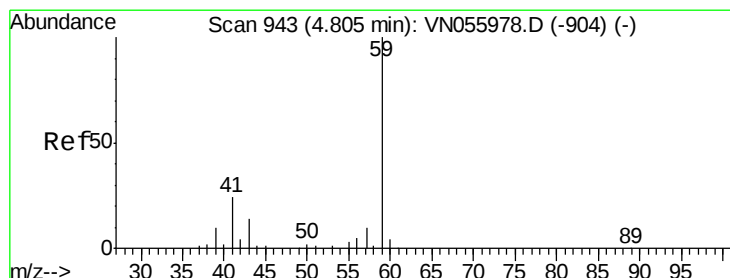
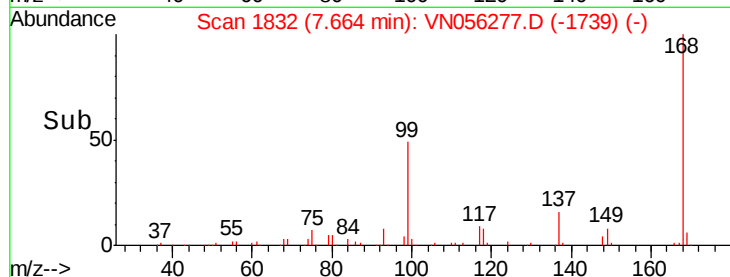
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 23.623 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.07 min

Lab File: VN056277.D

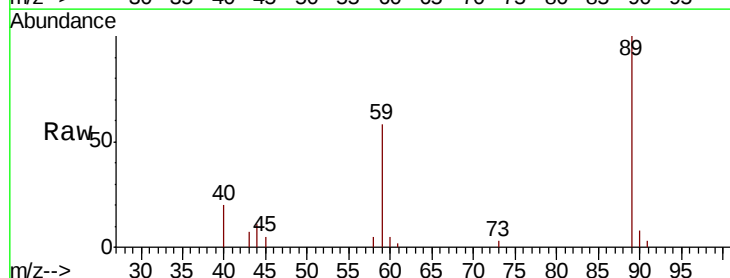
Acq: 13 Jun 2019 13:32

Tgt Ion: 59 Resp: 13924

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055978.D (-904) (-)

Ion 57.00 (56.70 to 57.70): VN055978.D (-904) (-)

4.74

4000

3000

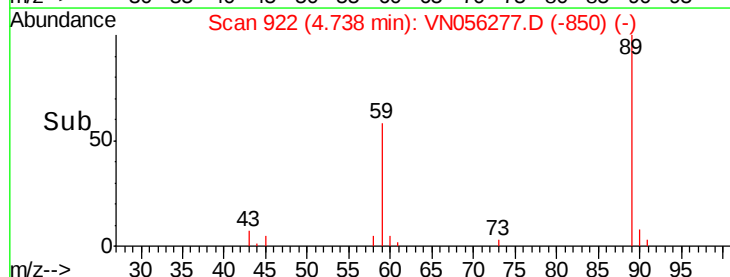
2000

1000

0

4.70 4.80

Time-->





#16

Acetone

Concen: 5.460 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056277.D

Acq: 13 Jun 2019 13:32

Instrument :

MSVOA_N

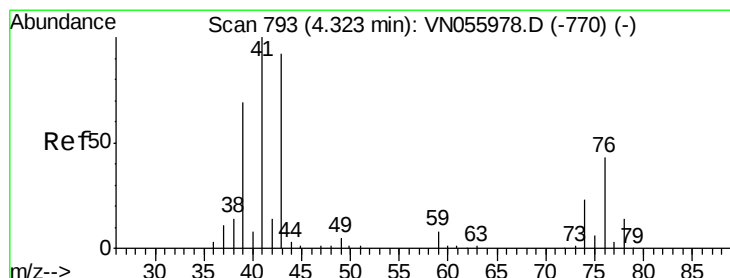
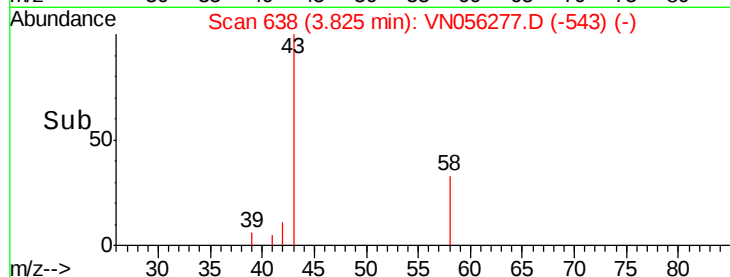
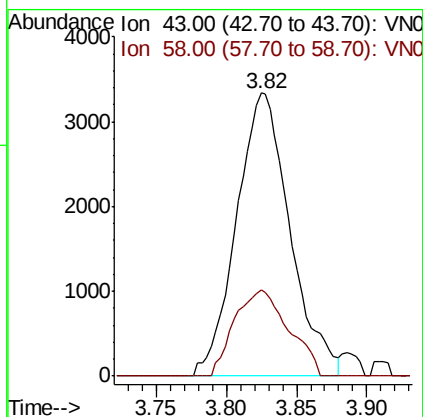
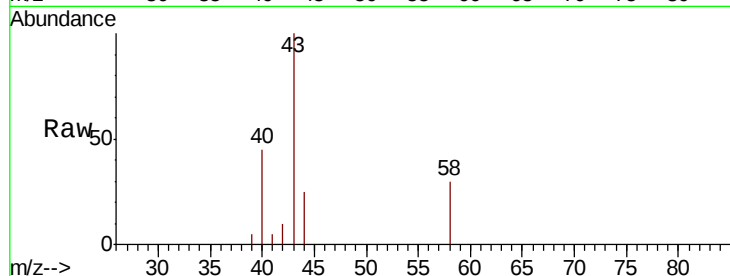
ClientSampled :

Tot Ion: 43 Resp: 8845

Ion Ratio Lower Upper

43 100

58 30.4 26.6 39.8



#18

Methyl Acetate

Concen: 0.551 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN056277.D

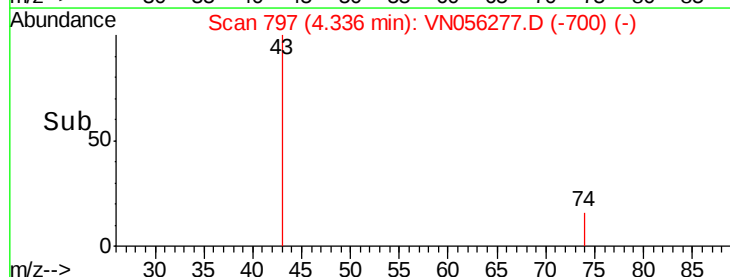
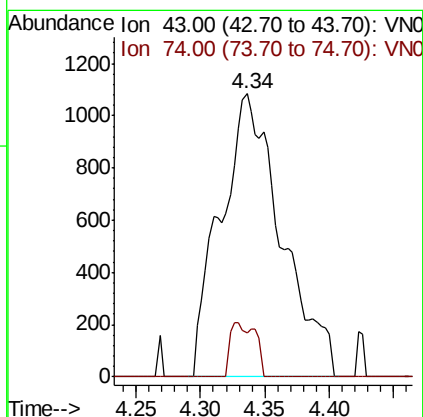
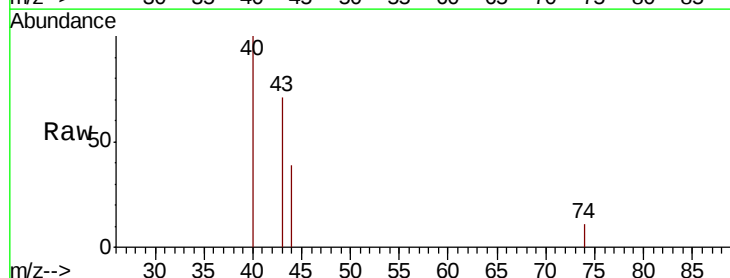
Acq: 13 Jun 2019 13:32

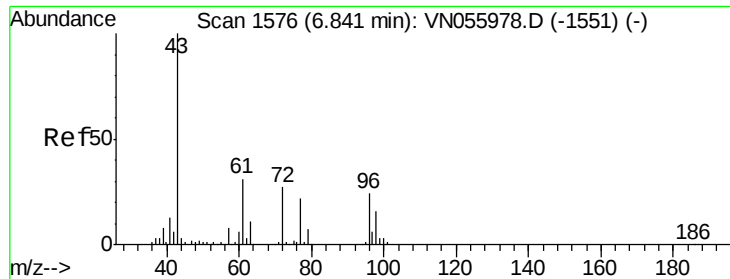
Tgt Ion: 43 Resp: 3573

Ion Ratio Lower Upper

43 100

74 5.1 19.3 28.9#

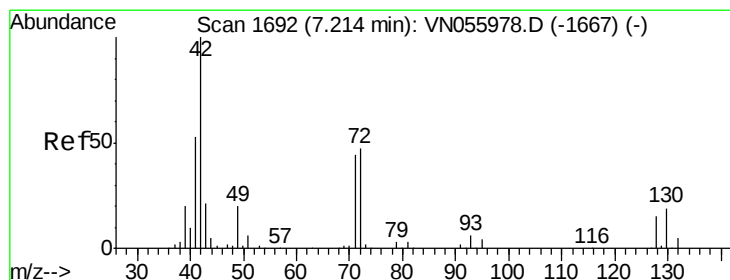
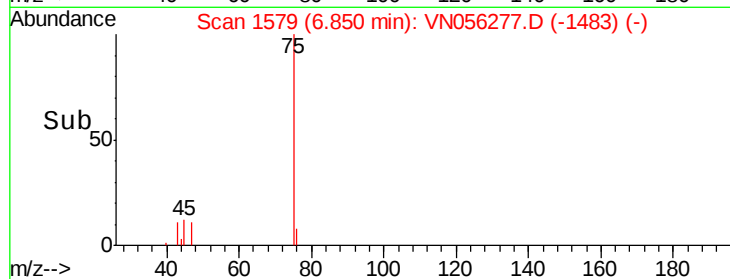
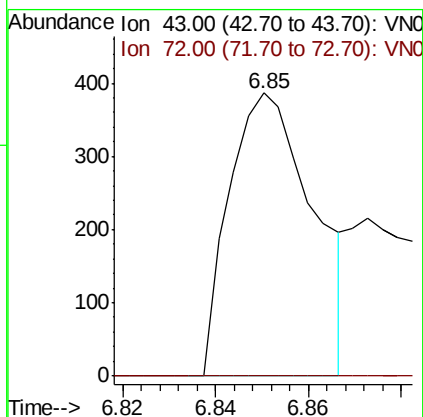
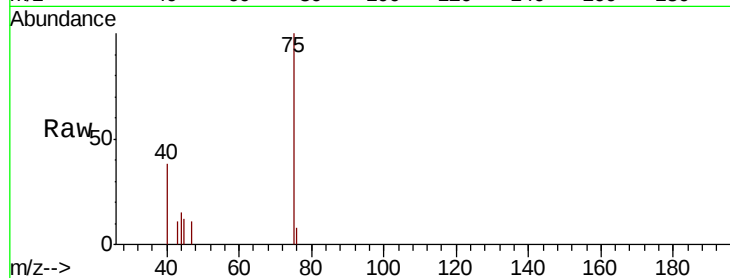




#25
2-Butanone
Concen: 0.236 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN056277.D
Acq: 13 Jun 2019 13:32

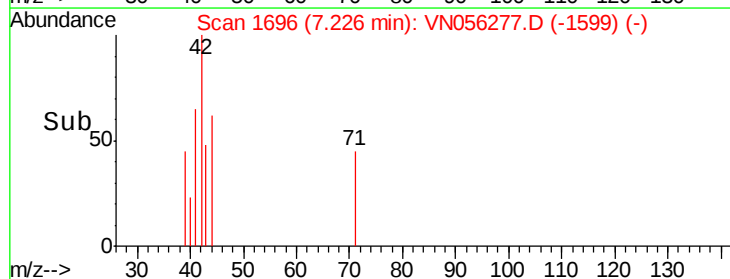
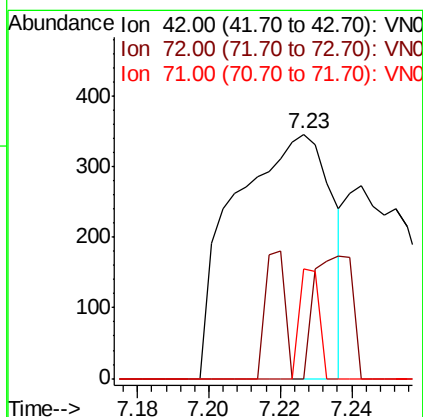
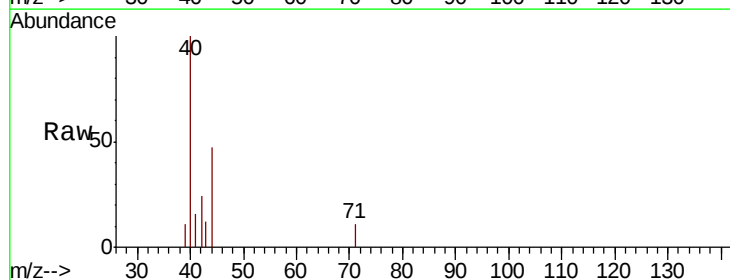
Instrument :
MSVOA_N
ClientSampled :

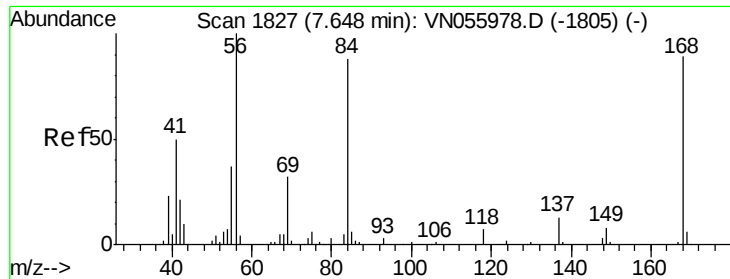
Tot Ion: 43 Resp: 484
Ion Ratio Lower Upper
43 100
72 0.0 21.9 32.9#



#29
Tetrahydrofuran
Concen: 0.516 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN056277.D
Acq: 13 Jun 2019 13:32

Tgt Ion: 42 Resp: 653
Ion Ratio Lower Upper
42 100
72 10.6 35.9 53.9#
71 9.0 34.0 51.0#

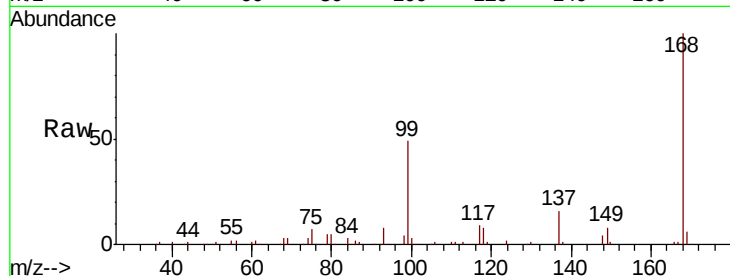




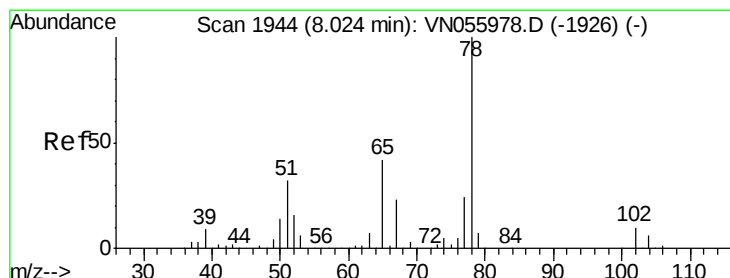
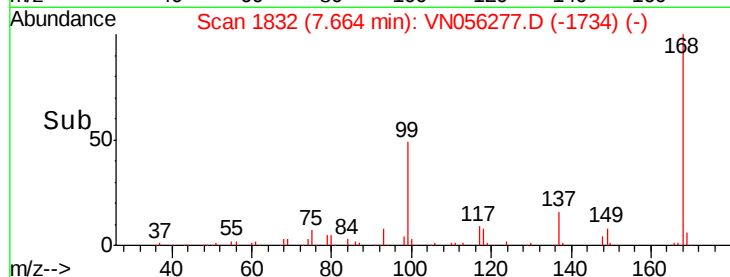
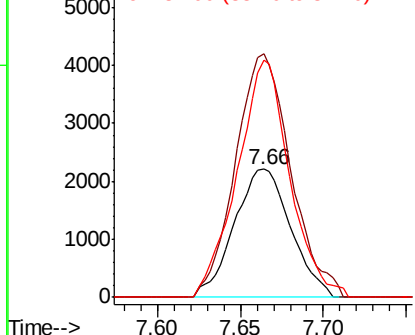
#31
Cyclohexane
Concen: 0.974 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN056277.D
Acq: 13 Jun 2019 13:32

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 5233
Ion Ratio Lower Upper
56 100
69 189.7 25.6 38.4#
84 185.1 67.4 101.0#

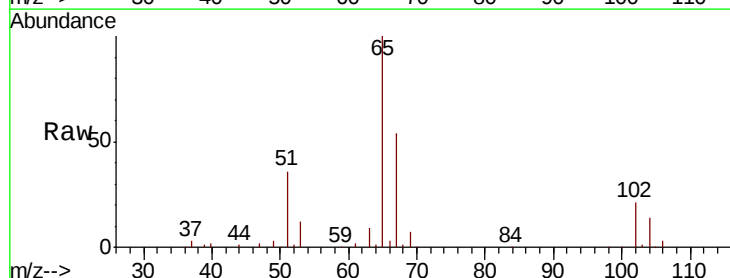


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

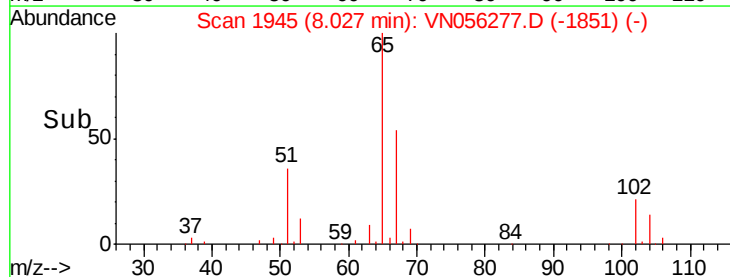
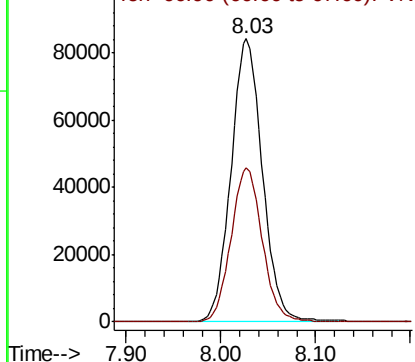


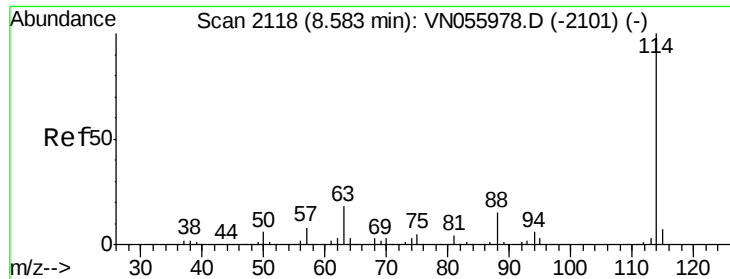
#33
1,2-Dichloroethane-d4
Concen: 57.313 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056277.D
Acq: 13 Jun 2019 13:32

Tgt Ion: 65 Resp: 194126
Ion Ratio Lower Upper
65 100
67 54.2 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

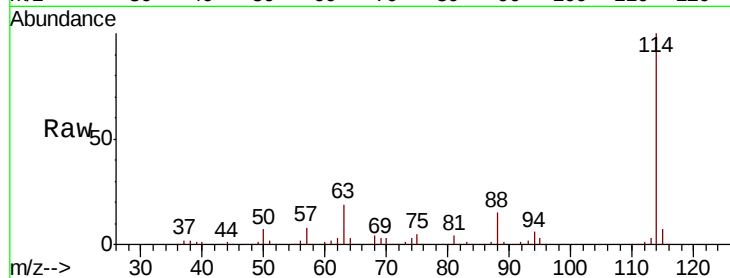




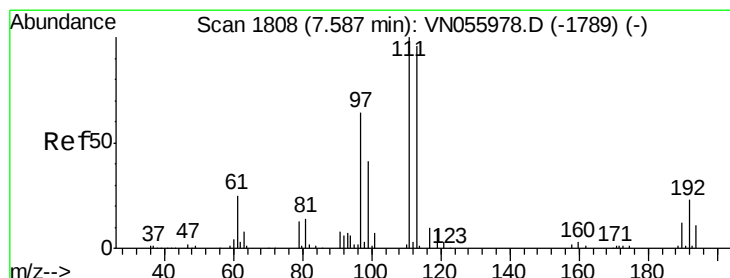
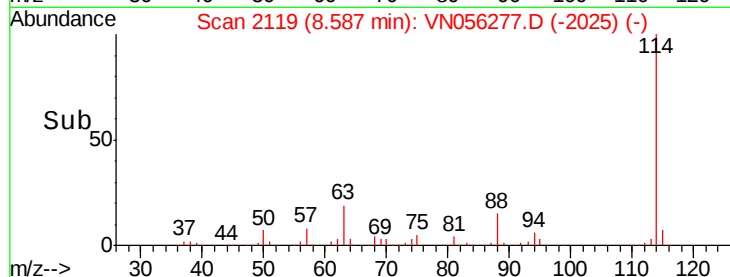
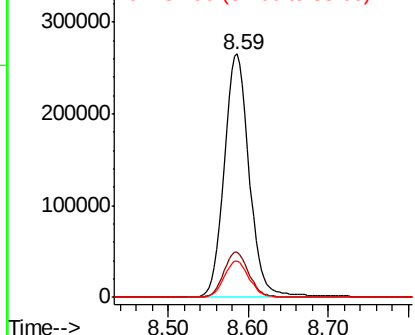
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN056277.D
Acq: 13 Jun 2019 13:32

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 571516
Ion Ratio Lower Upper
114 100
63 18.8 0.0 39.2
88 14.9 0.0 31.0

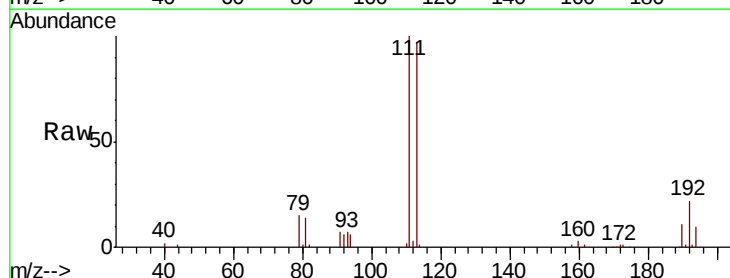


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

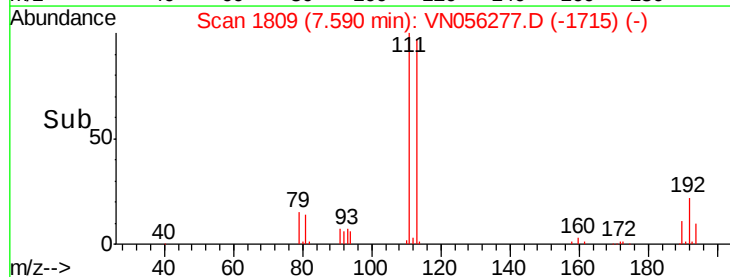
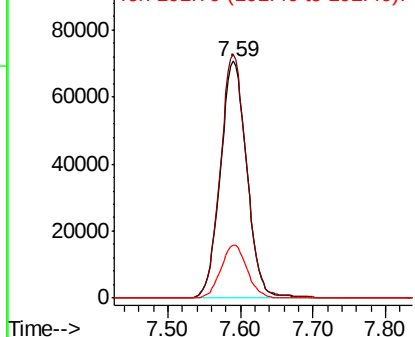


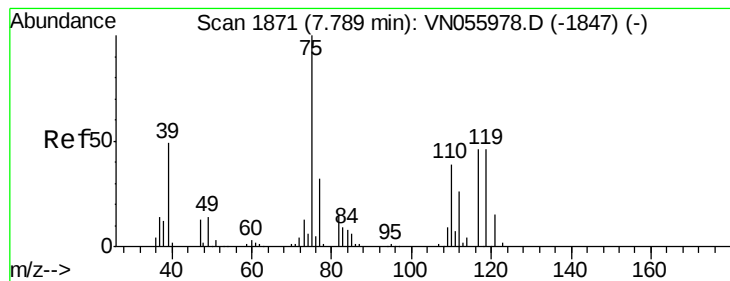
#35
Dibromofluoromethane
Concen: 50.978 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056277.D
Acq: 13 Jun 2019 13:32

Tgt Ion:113 Resp: 178752
Ion Ratio Lower Upper
113 100
111 102.0 81.9 122.9
192 22.3 19.5 29.3



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: 4.458 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056277.D

Acq: 13 Jun 2019 13:32

Instrument :

MSVOA_N

ClientSampleId :

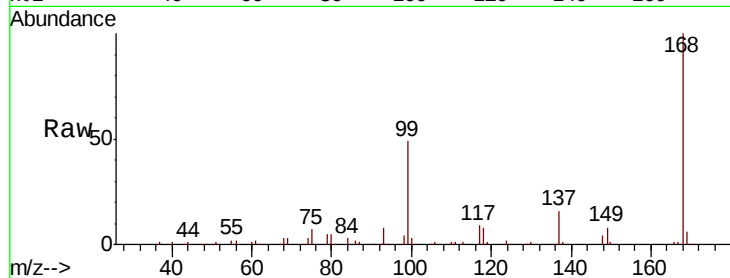
Tot Ion: 75 Resp: 21906

Ion Ratio Lower Upper

75 100

110 8.6 19.0 57.0#

77 0.0 25.1 37.7#

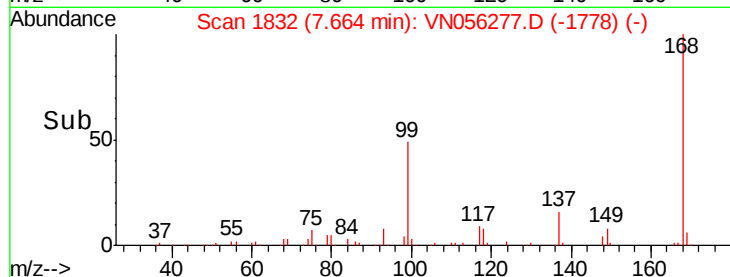


Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-1847) (-)

Ion 109.90 (109.60 to 110.60): VN055978.D (-1847) (-)

Ion 76.90 (76.60 to 77.60): VN055978.D (-1847) (-)

Time-->

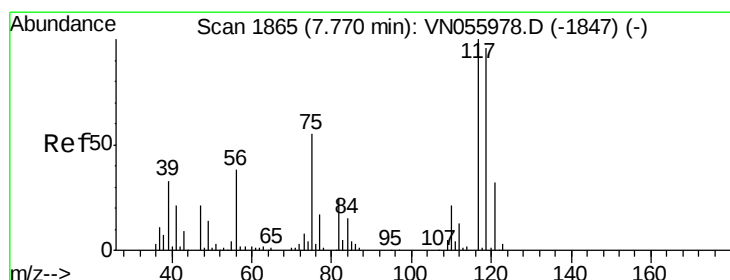


Abundance Ion 74.90 (74.60 to 75.60): VN056277.D (-1778) (-)

Ion 109.90 (109.60 to 110.60): VN056277.D (-1778) (-)

Ion 76.90 (76.60 to 77.60): VN056277.D (-1778) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.703 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056277.D

Acq: 13 Jun 2019 13:32

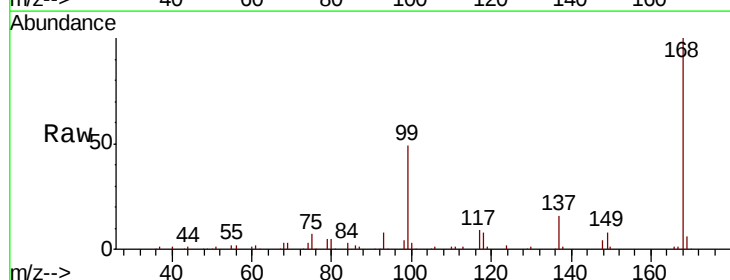
Tgt Ion: 117 Resp: 30368

Ion Ratio Lower Upper

117 100

119 6.1 79.0 118.6#

121 0.0 24.7 37.1#

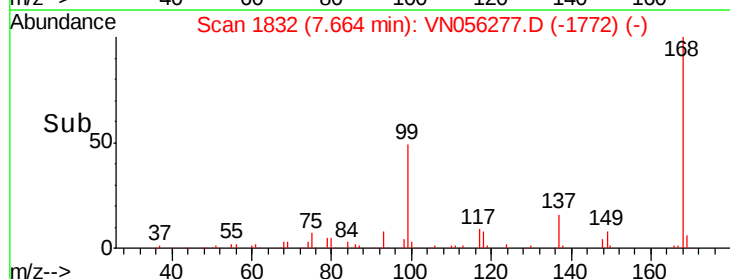


Abundance Ion 116.80 (116.50 to 117.50): VN055978.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN055978.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN055978.D (-1847) (-)

Time-->

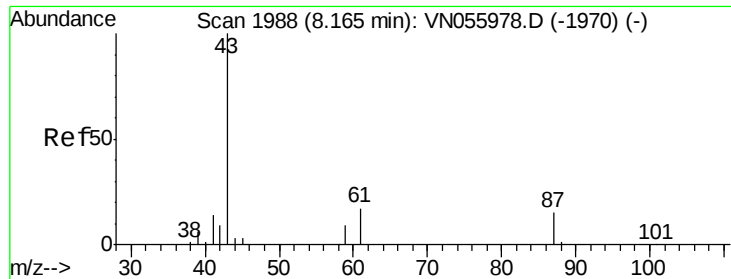


Abundance Ion 116.80 (116.50 to 117.50): VN056277.D (-1772) (-)

Ion 118.80 (118.50 to 119.50): VN056277.D (-1772) (-)

Ion 120.80 (120.50 to 121.50): VN056277.D (-1772) (-)

Time-->



#43

Isopropyl Acetate

Concen: 0.400 ug/l

RT: 8.30 min Scan# 2031

Delta R.T. 0.14 min

Lab File: VN056277.D

Acq: 13 Jun 2019 13:32

Instrument :

MSVOA_N

ClientSampled :

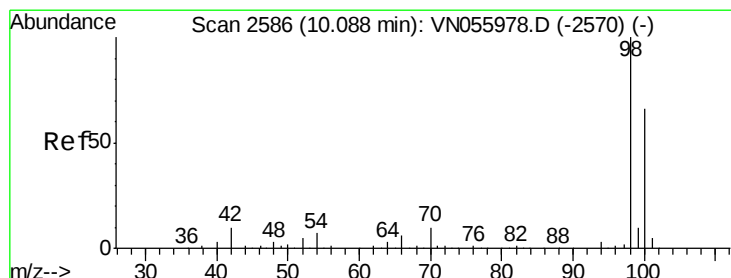
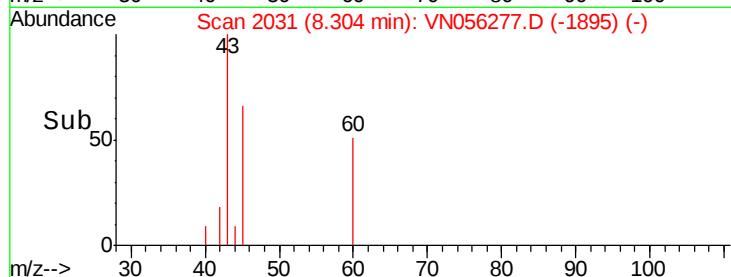
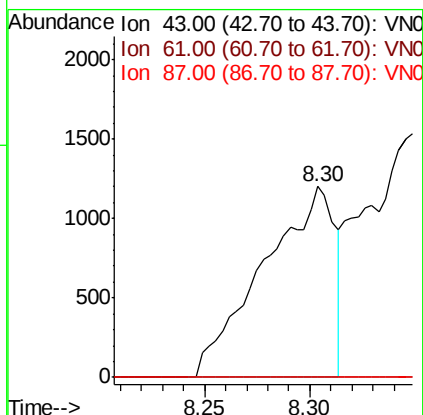
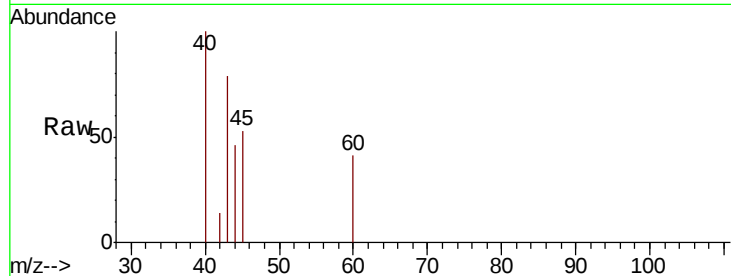
Tot Ion: 43 Resp: 2832

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#



#50

Toluene-d8

Concen: 52.726 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056277.D

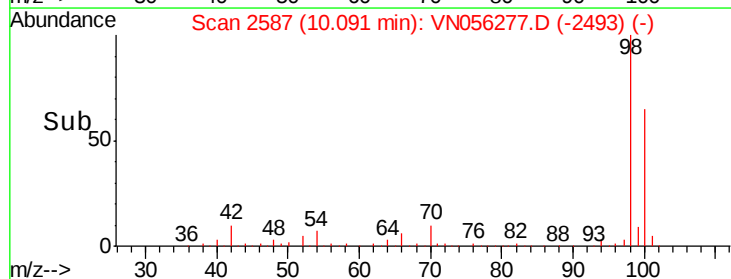
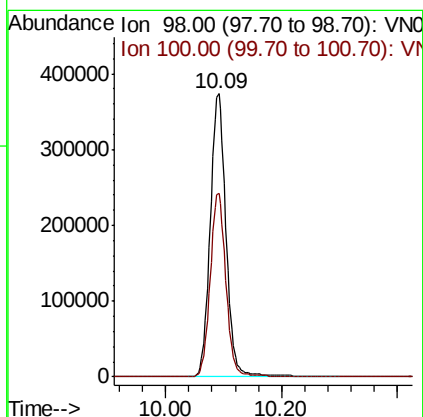
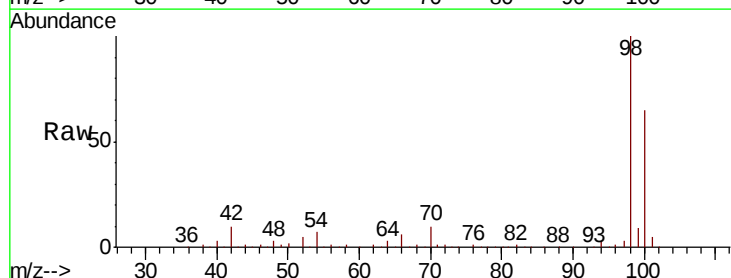
Acq: 13 Jun 2019 13:32

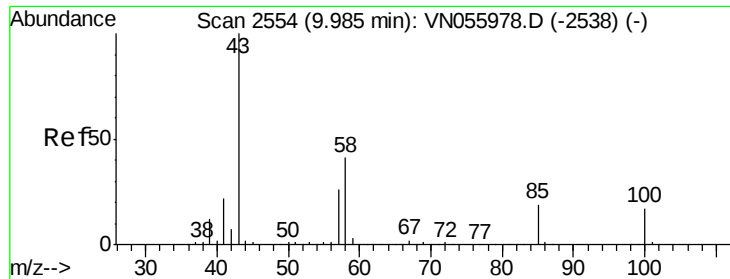
Tgt Ion: 98 Resp: 711423

Ion Ratio Lower Upper

98 100

100 64.1 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 0.258 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN056277.D

Acq: 13 Jun 2019 13:32

Instrument :

MSVOA_N

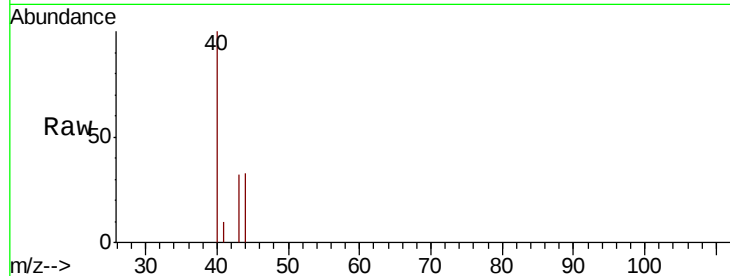
ClientSampleId :

Tot Ion: 43 Resp: 1141

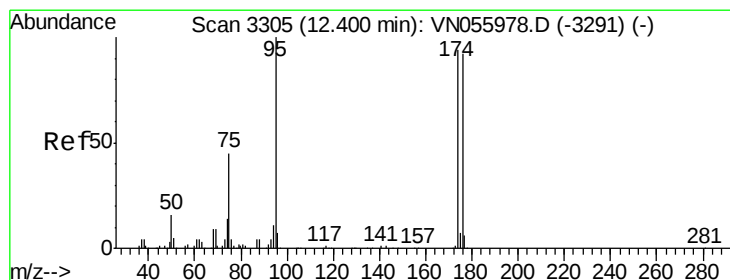
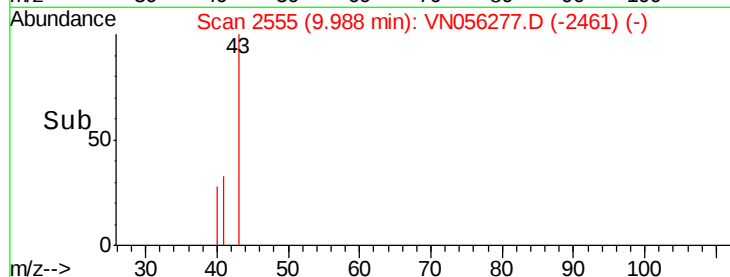
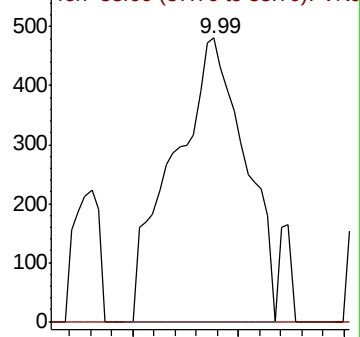
Ion Ratio Lower Upper

43 100

58 0.0 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)



#62

4-Bromofluorobenzene

Concen: 48.289 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056277.D

Acq: 13 Jun 2019 13:32

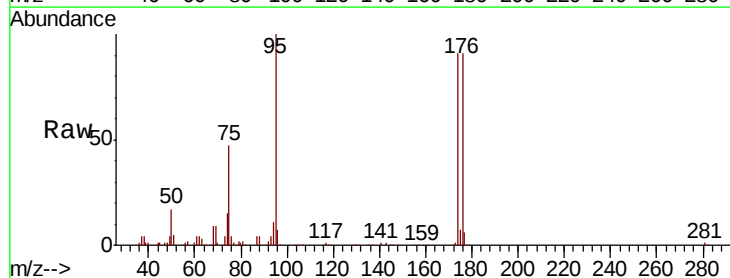
Tgt Ion: 95 Resp: 221579

Ion Ratio Lower Upper

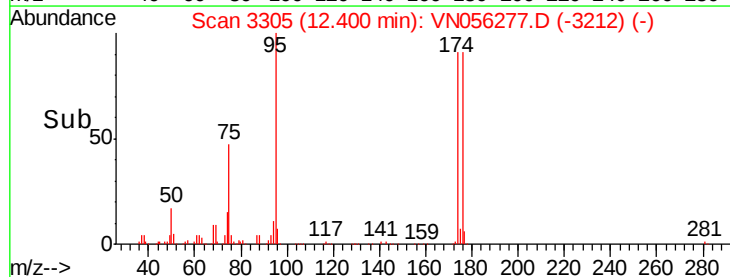
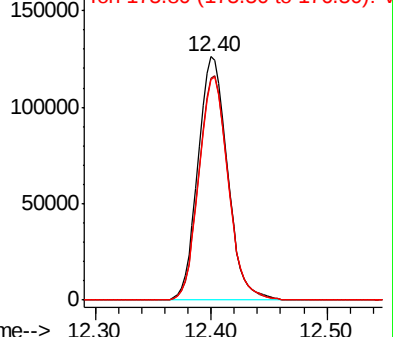
95 100

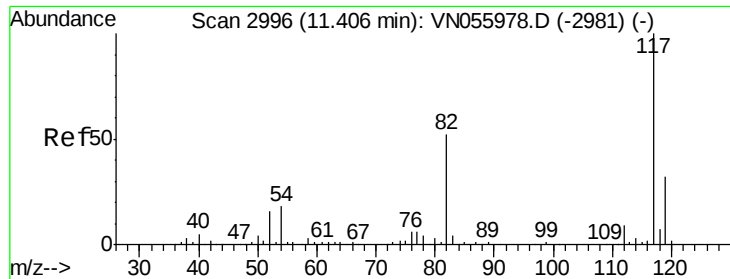
174 91.8 0.0 191.0

176 91.0 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056277.D

Acq: 13 Jun 2019 13:32

Instrument :

MSVOA_N

ClientSampleId :

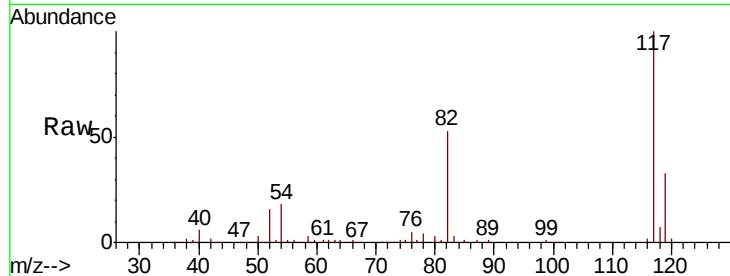
Tot Ion:117 Resp: 561956

Ion Ratio Lower Upper

117 100

82 52.7 41.8 62.8

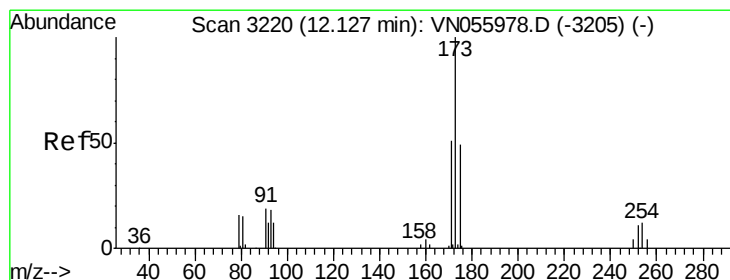
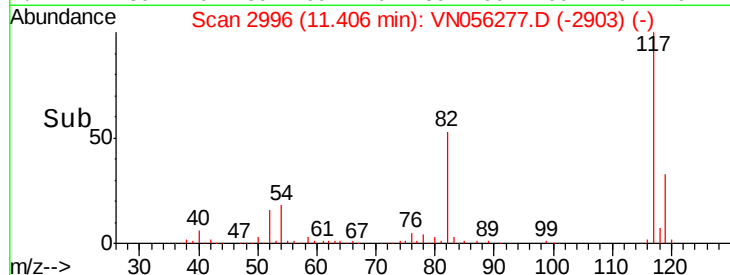
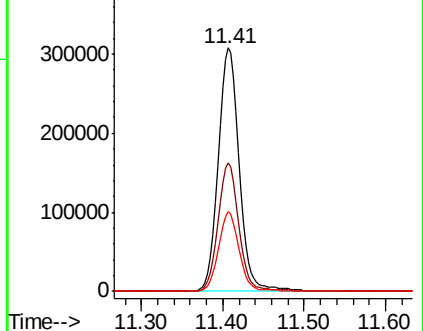
119 32.5 25.4 38.0



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: 3.168 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN056277.D

Acq: 13 Jun 2019 13:32

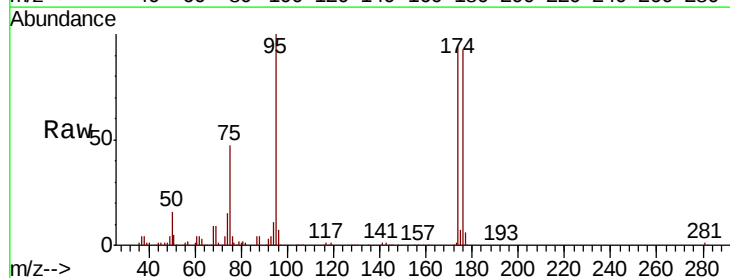
Tgt Ion:173 Resp: 1460

Ion Ratio Lower Upper

173 100

175 878.6 24.3 72.8#

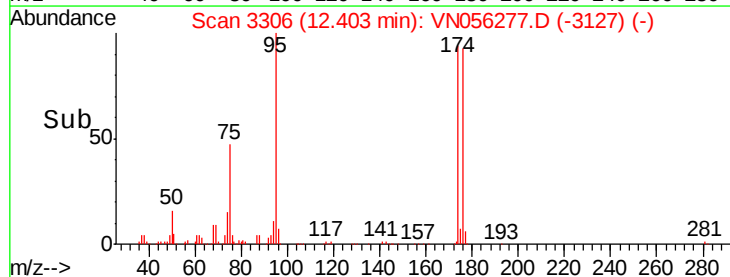
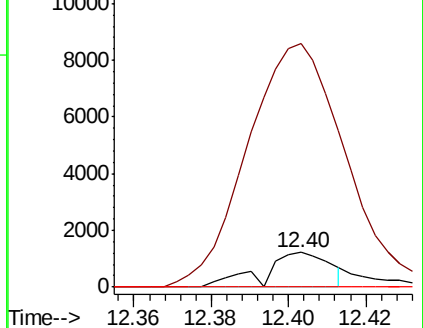
254 0.0 0.0 0.0

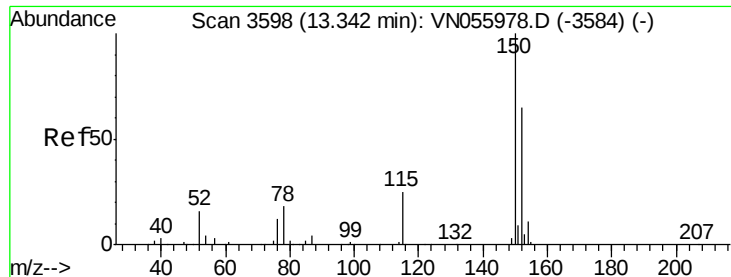


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN056277.D

Acq: 13 Jun 2019 13:32

Instrument :

MSVOA_N

ClientSampled :

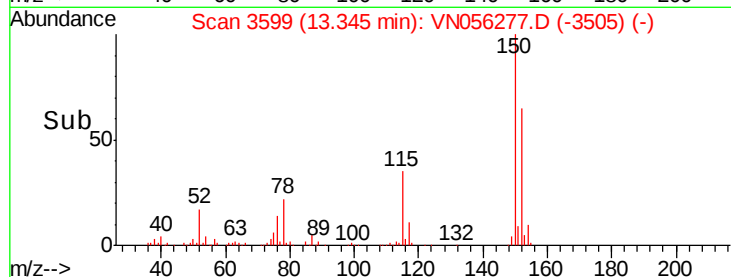
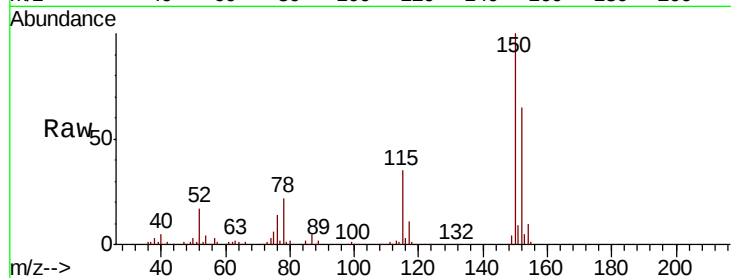
Tot Ion:152 Resp: 166054

Ion Ratio Lower Upper

152 100

115 55.1 27.0 81.0

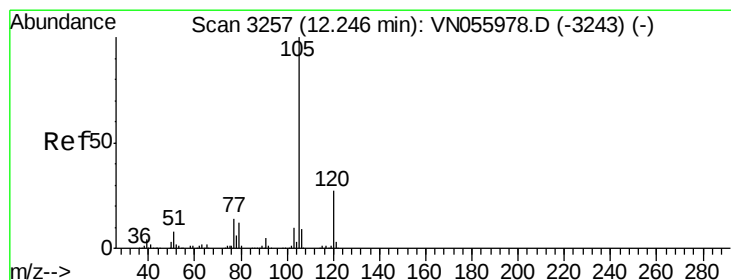
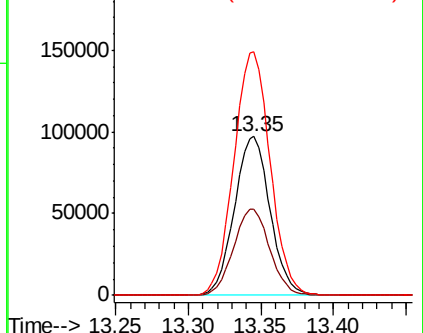
150 156.0 0.0 343.2



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. 0.15 min

Lab File: VN056277.D

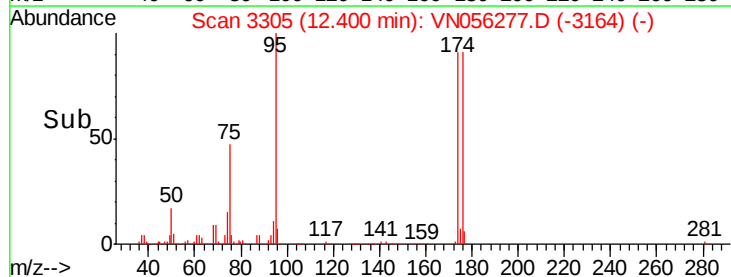
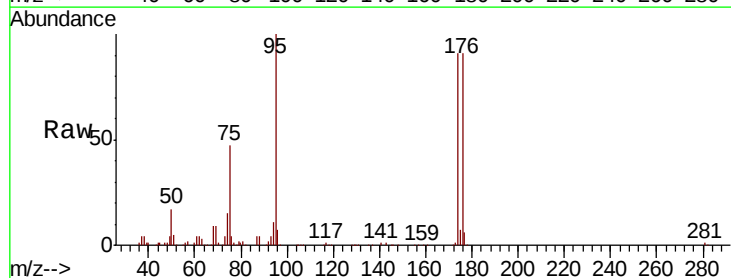
Acq: 13 Jun 2019 13:32

Tgt Ion:105 Resp: 129

Ion Ratio Lower Upper

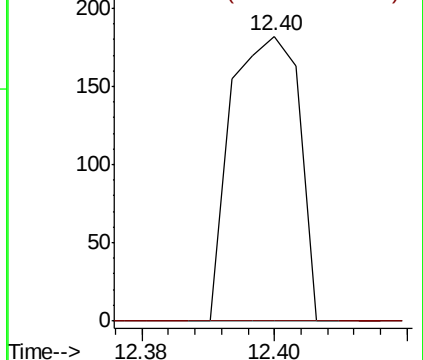
105 100

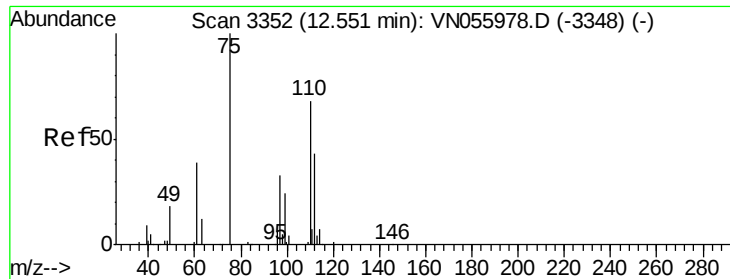
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 34.108 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056277.D

Acq: 13 Jun 2019 13:32

Instrument :

MSVOA_N

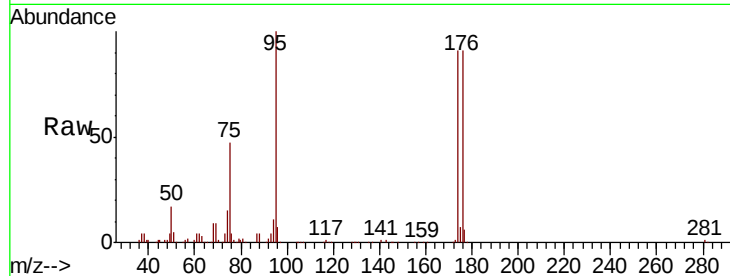
ClientSampled :

Tot Ion: 75 Resp: 104216

Ion Ratio Lower Upper

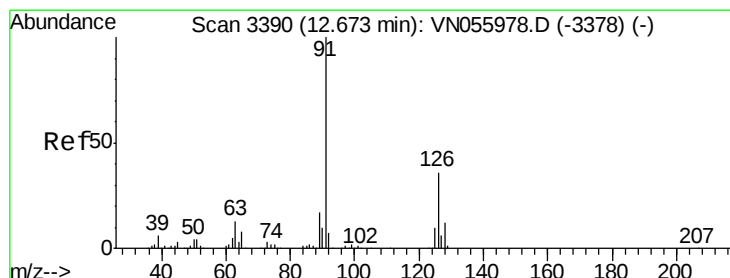
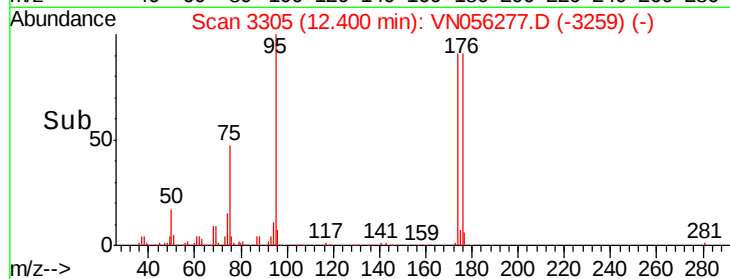
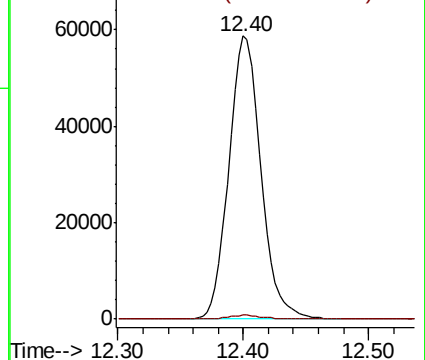
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3365

Delta R.T. -0.08 min

Lab File: VN056277.D

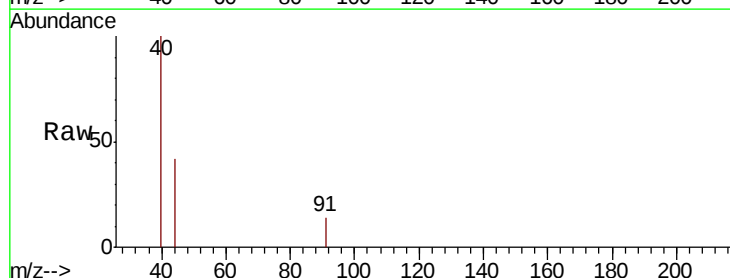
Acq: 13 Jun 2019 13:32

Tgt Ion: 91 Resp: 134

Ion Ratio Lower Upper

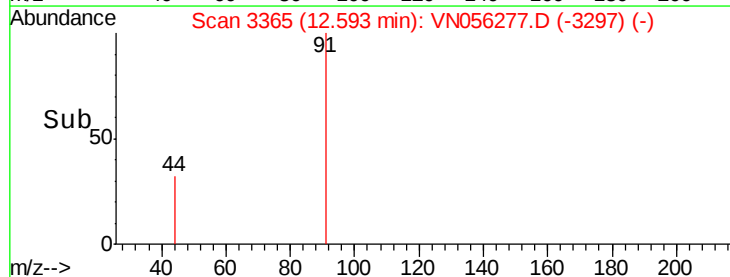
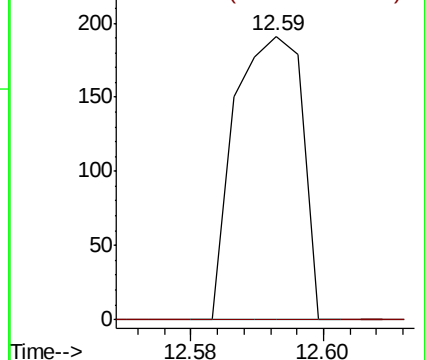
91 100

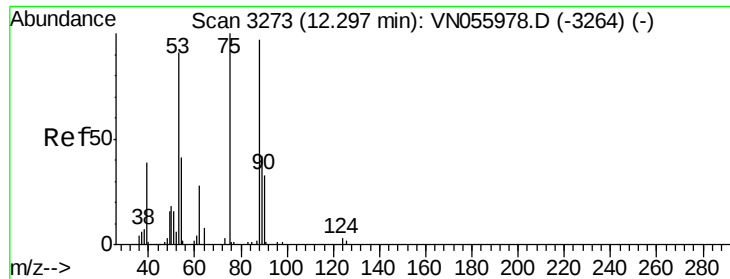
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 113.586 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056277.D

Acq: 13 Jun 2019 13:32

Instrument :

MSVOA_N

ClientSampleId :

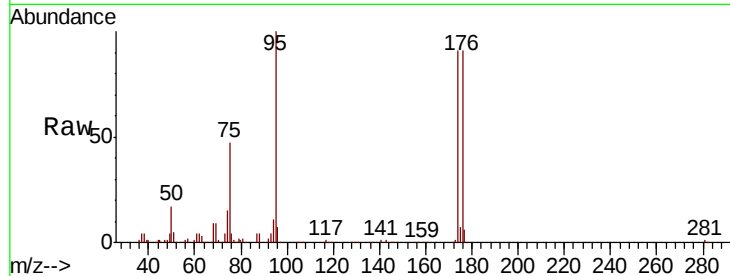
Tot Ion: 75 Resp: 104216

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

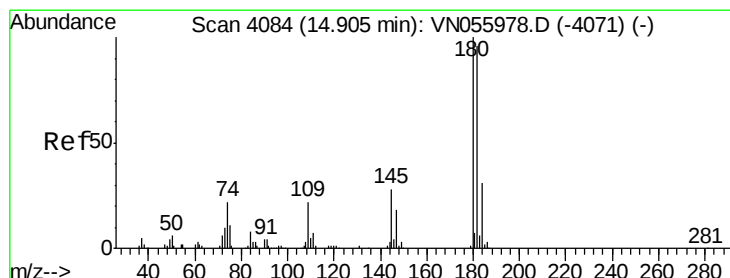
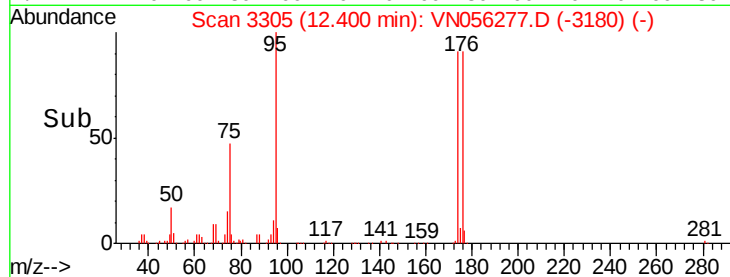
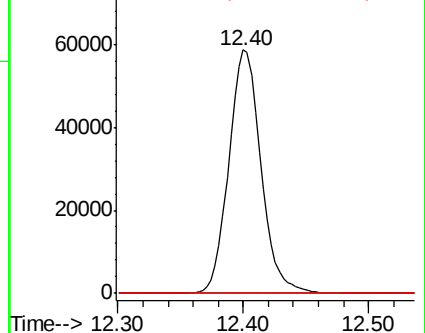
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN055978.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN055978.D (-3264) (-)



#93

1,2,4-Trichlorobenzene

Concen: 4.297 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN056277.D

Acq: 13 Jun 2019 13:32

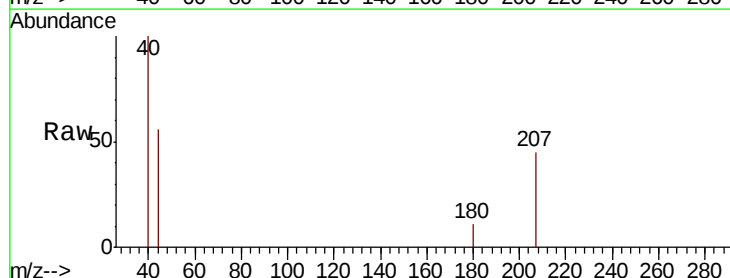
Tgt Ion: 180 Resp: 91

Ion Ratio Lower Upper

180 100

182 0.0 48.3 144.9#

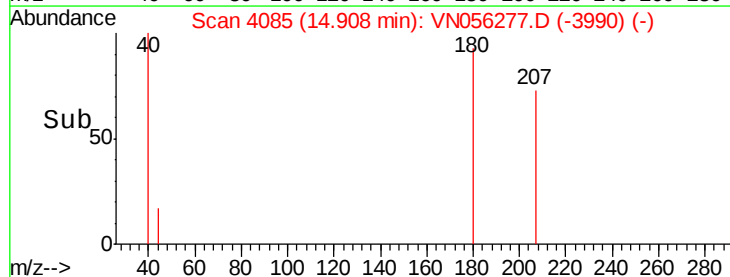
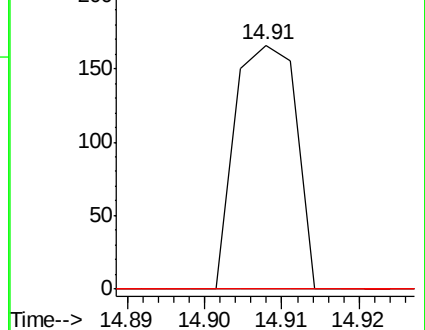
145 0.0 14.0 41.9#

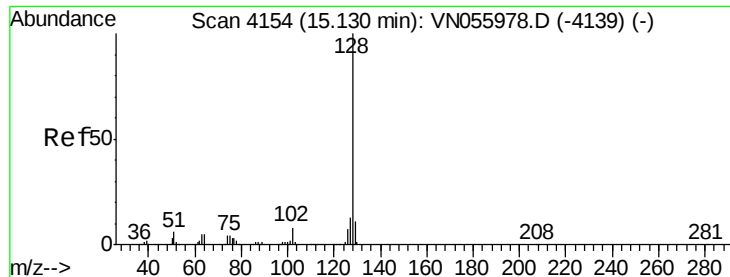


Abundance Ion 179.80 (179.50 to 180.50): VN055978.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN055978.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN055978.D (-4071) (-)





#95

Naphthalene

Concen: 3.875 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN056277.D

Acq: 13 Jun 2019 13:32

Instrument :

MSVOA_N

ClientSampled :

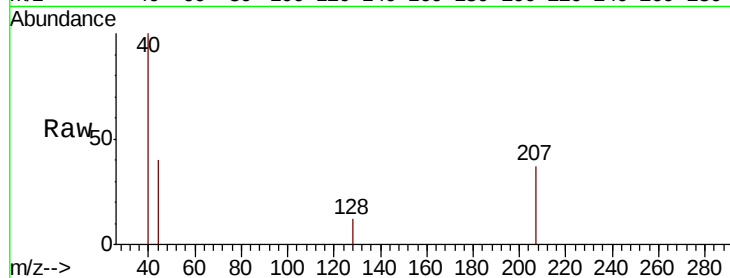
Tot Ion:128 Resp: 208

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#

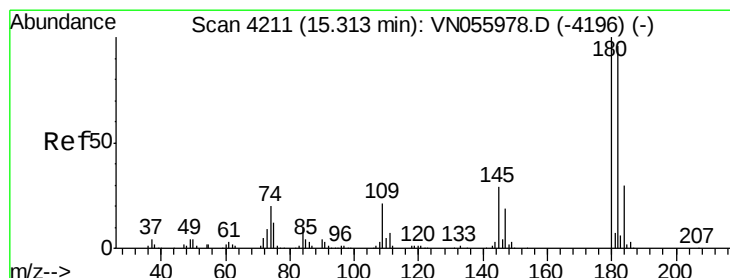
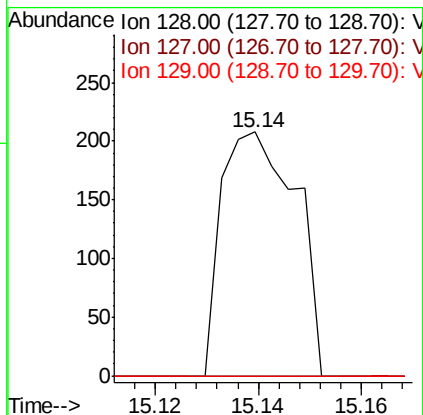
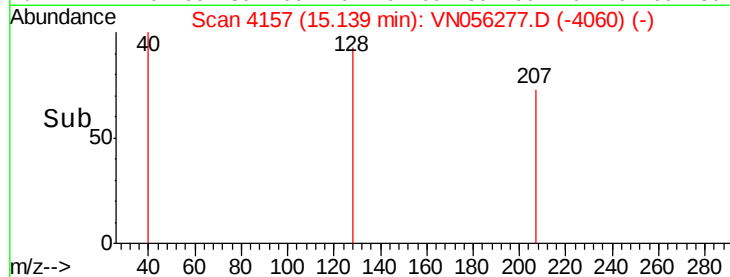


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.14



#96

1,2,3-Trichlorobenzene

Concen: 3.093 ug/l

RT: 15.32 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN056277.D

Acq: 13 Jun 2019 13:32

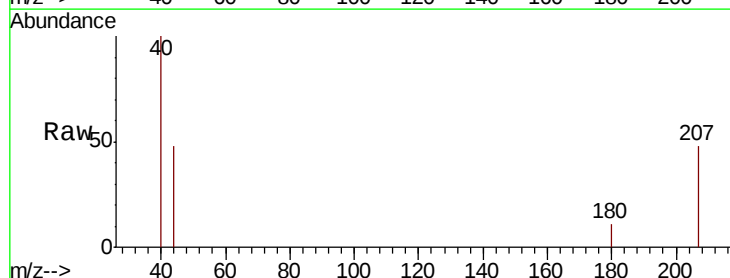
Tgt Ion:180 Resp: 206

Ion Ratio Lower Upper

180 100

182 0.0 47.9 143.7#

145 0.0 14.9 44.7#



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

15.32

