

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032219\
 Data File : VN054577.D
 Acq On : 23 Mar 2019 00:58
 Operator : JC/SP
 Sample : K2045-03
 Misc : 4.91g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Quant Time: Mar 23 02:38:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	547537	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	847053	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	715336	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	291360	50.00	ug/l	0.00

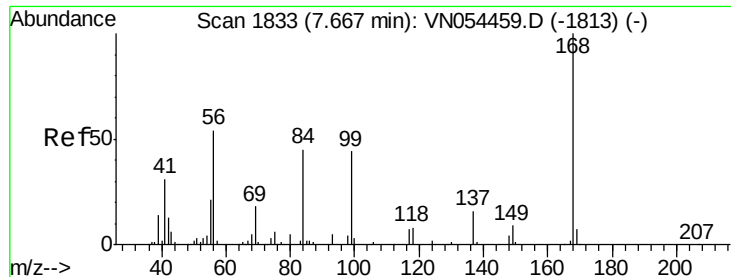
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	344768	50.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.24%	
35) Dibromofluoromethane	7.59	113	254929	46.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.42%	
50) Toluene-d8	10.09	98	1020470	49.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.48%	
62) 4-Bromofluorobenzene	12.40	95	320668	45.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.86%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	4.73	59	1547	3.752	ug/l #	70
13) Acrolein	3.60	56	287	0.504	ug/l #	28
16) Acetone	3.84	43	2579	1.260	ug/l #	38
18) Methyl Acetate	4.33	43	1475	0.323	ug/l #	84
20) Methylene Chloride	4.54	84	5484	0.909	ug/l #	84
25) 2-Butanone	6.87	43	808	0.308	ug/l #	46
31) Cyclohexane	7.66	56	12126	Below Cal	#	6
36) 1,1-Dichloropropene	7.66	75	42233	5.332	ug/l #	47
38) Carbon Tetrachloride	7.66	117	48880	6.351	ug/l #	15
43) Isopropyl Acetate	8.26	43	2746	0.289	ug/l #	60
53) t-1,3-Dichloropropene	10.38	75	30	2.236	ug/l #	54
71) Bromoform	12.38	173	252	2.287	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	167927	36.321	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	167927	120.440	ug/l #	11
87) 1,3-Dichlorobenzene	13.28	146	1951	0.202	ug/l #	63
88) 1,4-Dichlorobenzene	13.36	146	3174	0.338	ug/l #	70
91) 1,2-Dichlorobenzene	13.65	146	5339	0.571	ug/l	94
93) 1,2,4-Trichlorobenzene	14.91	180	1275	0.274	ug/l	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

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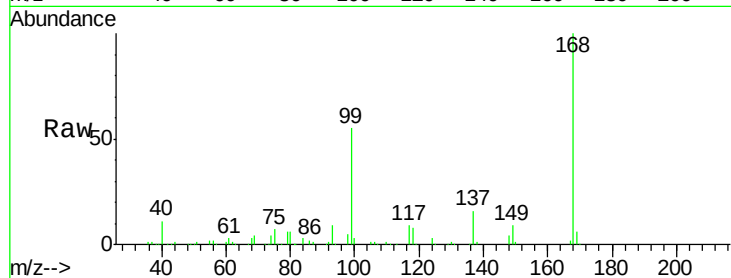
WP022SB439-190318-(13-14)MSD

Tot Ion:168 Resp: 547537

Ion Ratio Lower Upper

168 100

99 55.5 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

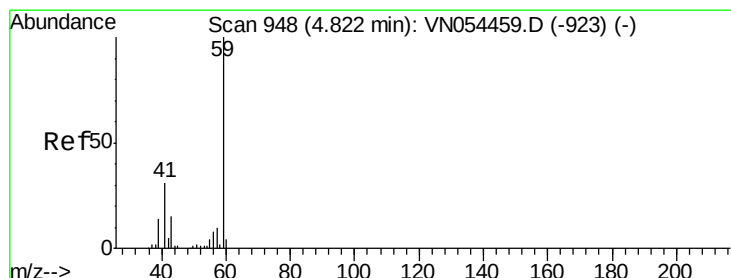
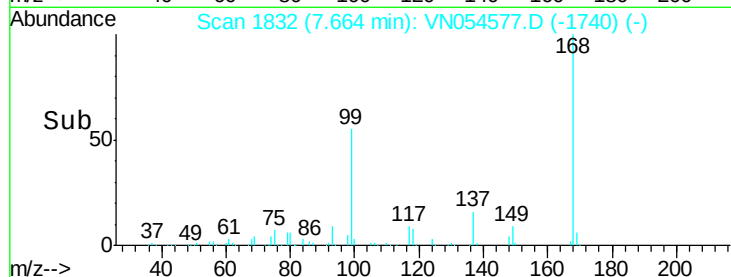
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#11

Tert butyl alcohol

Concen: 3.752 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.09 min

Lab File: VN054577.D

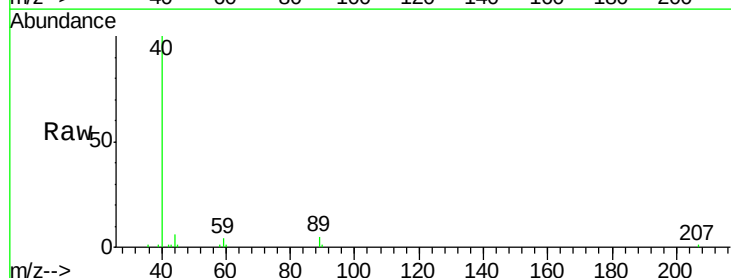
Acq: 23 Mar 2019 00:58

Tgt Ion: 59 Resp: 1547

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.73

1200

1000

800

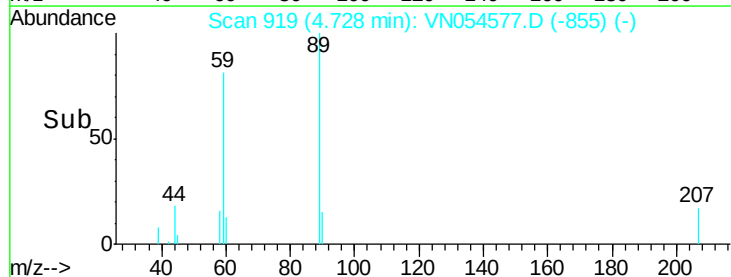
600

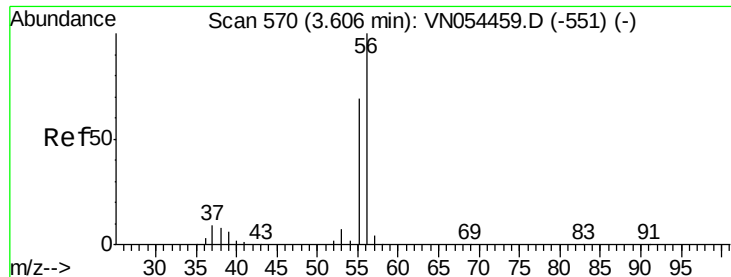
400

200

0

Time--> 4.68 4.70 4.72 4.74





#13

Acrolein

Concen: 0.504 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN054577.D

Acq: 23 Mar 2019 00:58

Instrument :

MSVOA_N

ClientSampleId :

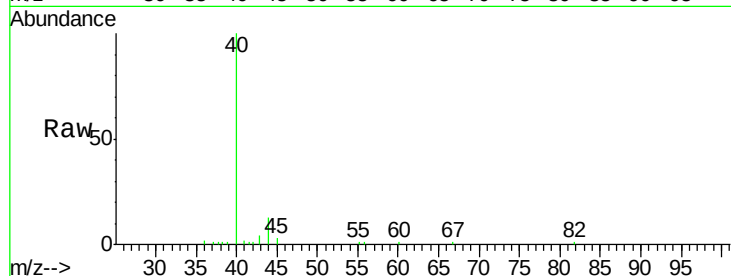
WP022SB439-190318-(13-14)MSD

Tot Ion: 56 Resp: 287

Ion Ratio Lower Upper

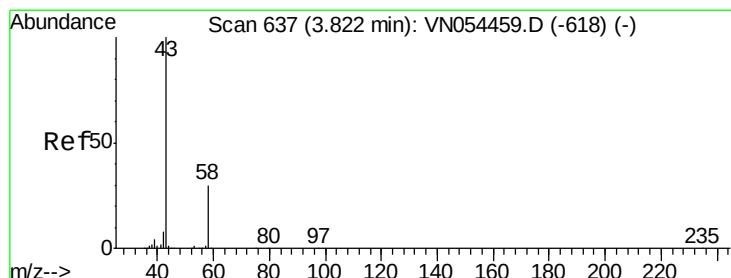
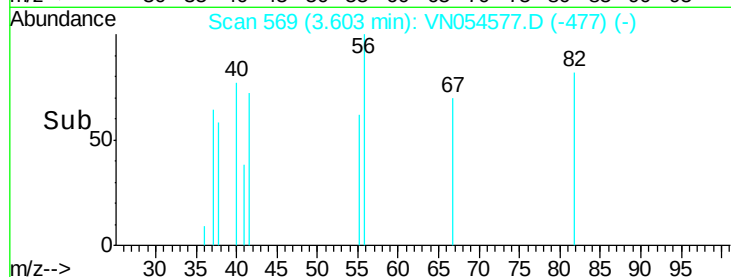
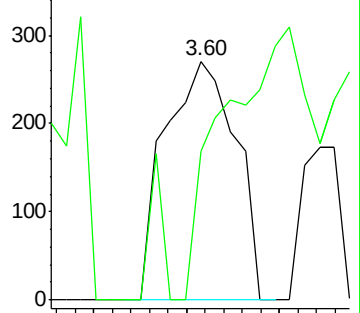
56 100

55 11.1 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 1.260 ug/l

RT: 3.84 min Scan# 644

Delta R.T. 0.02 min

Lab File: VN054577.D

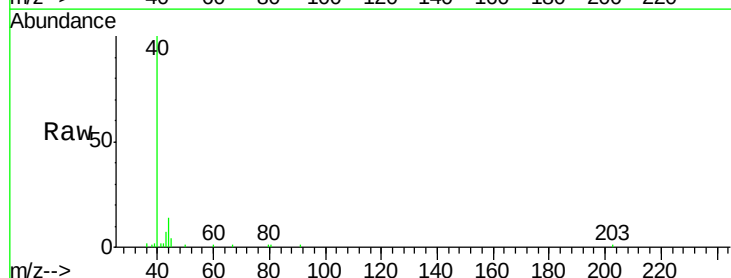
Acq: 23 Mar 2019 00:58

Tgt Ion: 43 Resp: 2579

Ion Ratio Lower Upper

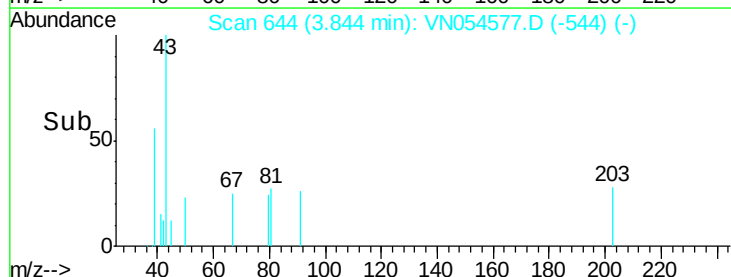
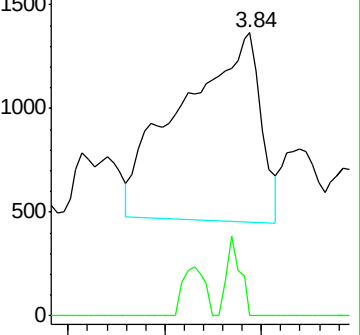
43 100

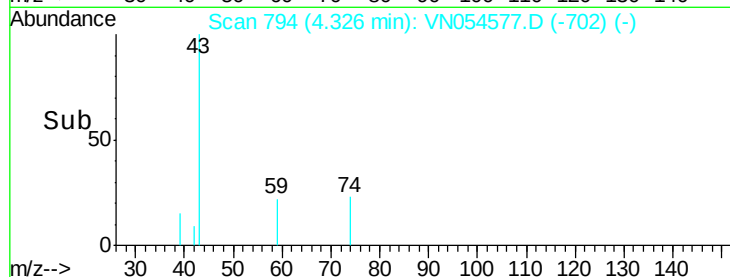
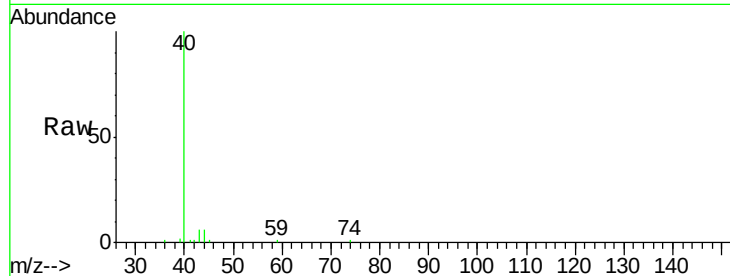
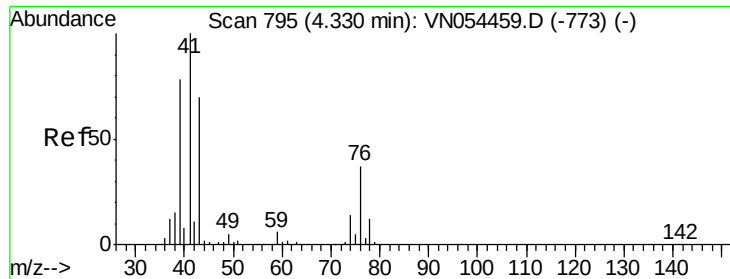
58 0.0 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

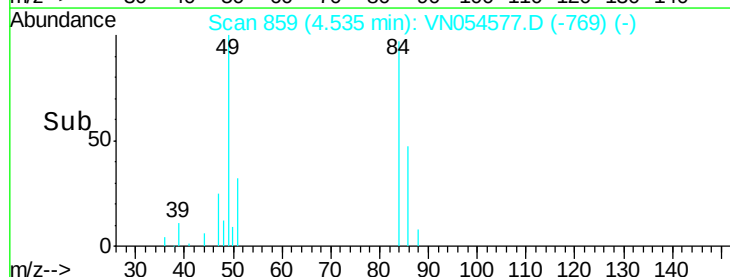
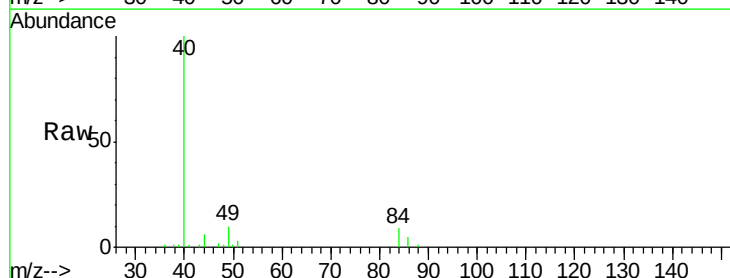
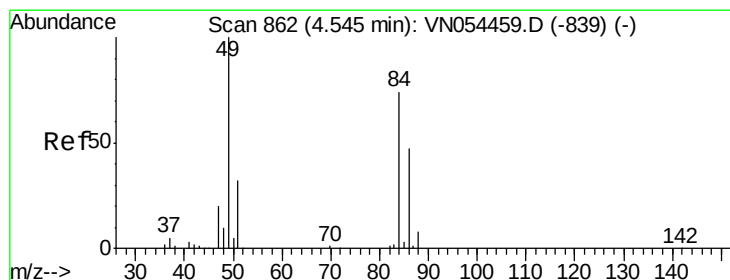
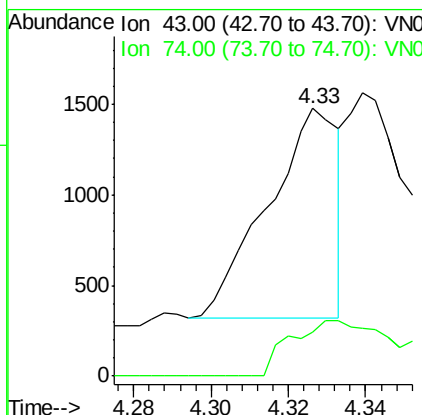




#18
Methyl Acetate
Concen: 0.323 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN054577.D
Acq: 23 Mar 2019 00:58

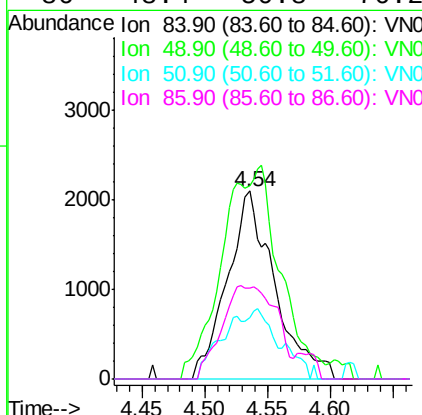
Instrument :
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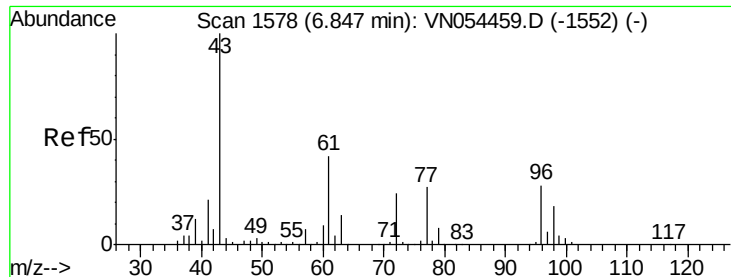
Tot Ion: 43 Resp: 1475
Ion Ratio Lower Upper
43 100
74 34.4 20.8 31.2#



#20
Methylene Chloride
Concen: 0.909 ug/l
RT: 4.54 min Scan# 859
Delta R.T. -0.01 min
Lab File: VN054577.D
Acq: 23 Mar 2019 00:58

Tgt Ion: 84 Resp: 5484
Ion Ratio Lower Upper
84 100
49 93.5 89.7 134.5
51 32.6 28.2 42.4
86 48.4 50.8 76.2#





#25

2-Butanone

Concen: 0.308 ug/l

RT: 6.87 min Scan# 1584

Delta R.T. 0.02 min

Lab File: VN054577.D

Acq: 23 Mar 2019 00:58

Instrument :

MSVOA_N

ClientSampleId :

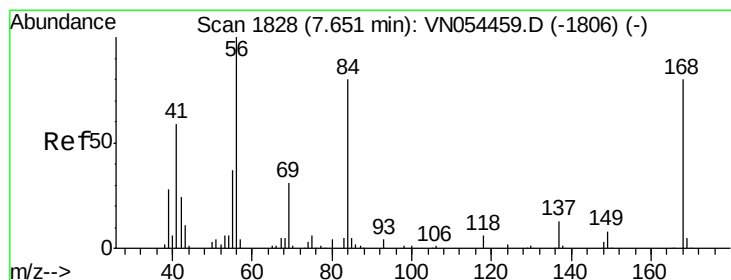
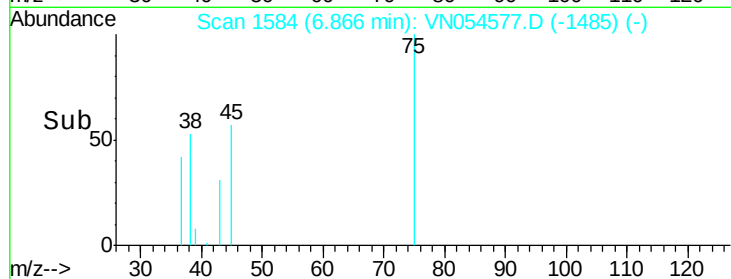
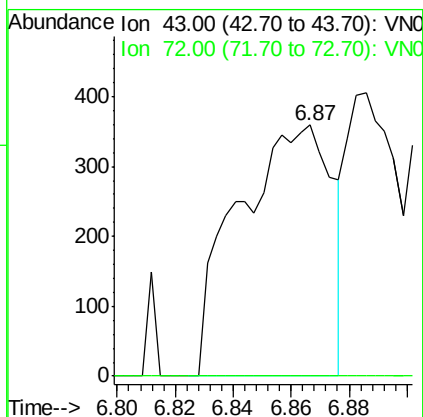
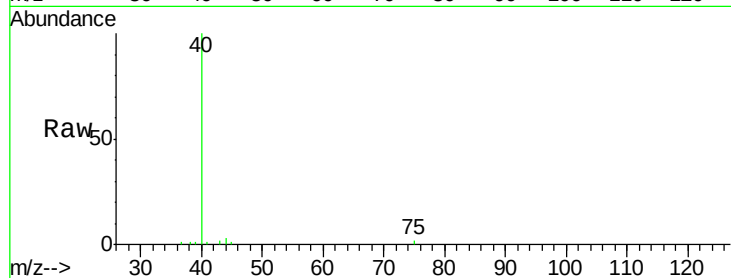
WP022SB439-190318-(13-14)MSD

Tot Ion: 43 Resp: 808

Ion Ratio Lower Upper

43 100

72 0.0 23.0 34.6#



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054577.D

Acq: 23 Mar 2019 00:58

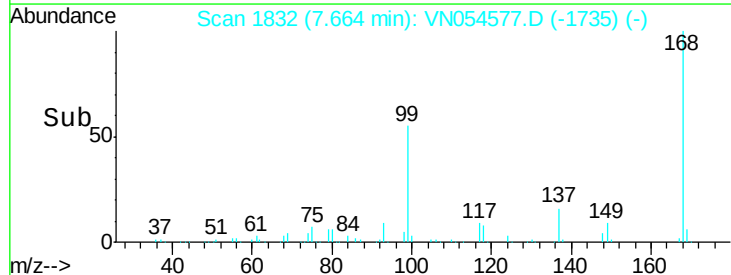
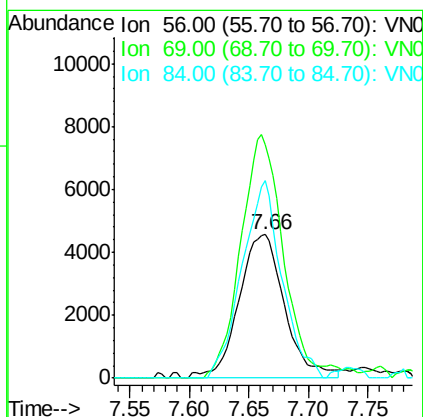
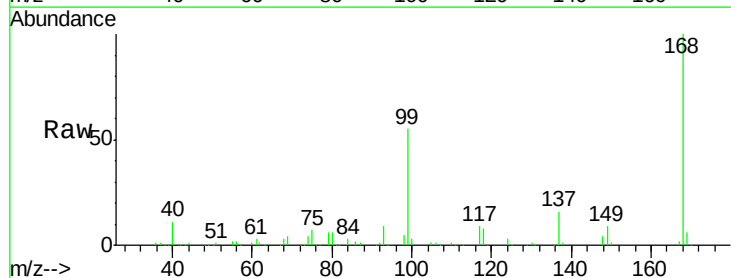
Tgt Ion: 56 Resp: 12126

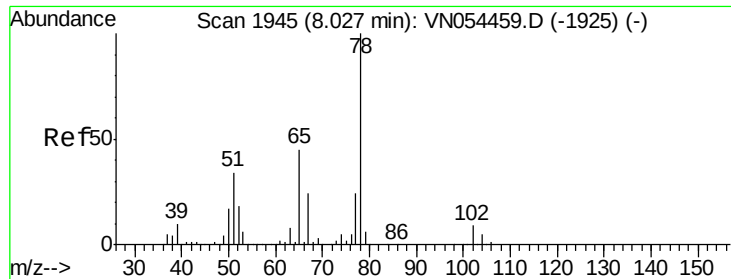
Ion Ratio Lower Upper

56 100

69 163.2 27.8 41.6#

84 137.8 74.6 111.8#

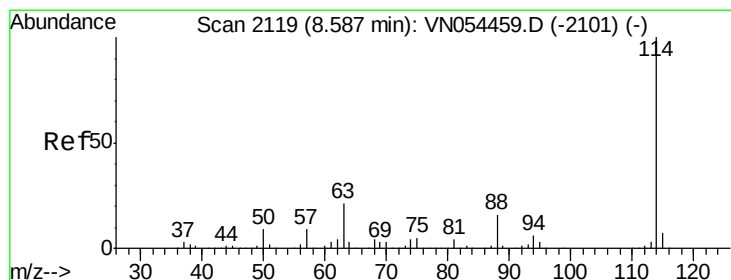
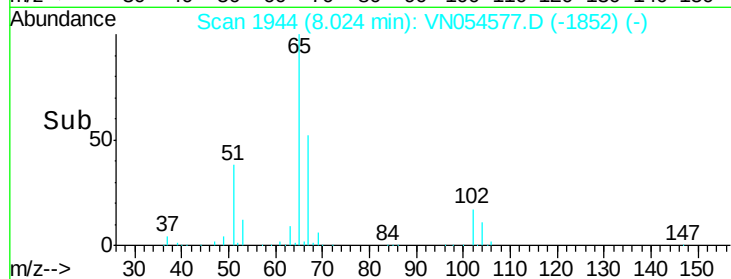
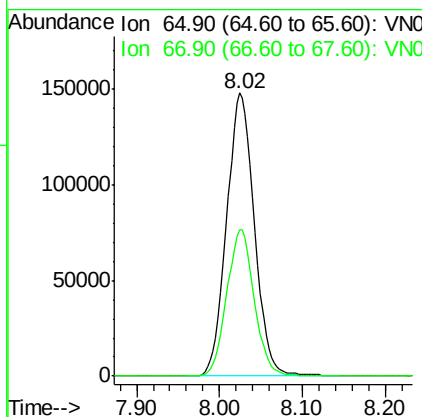
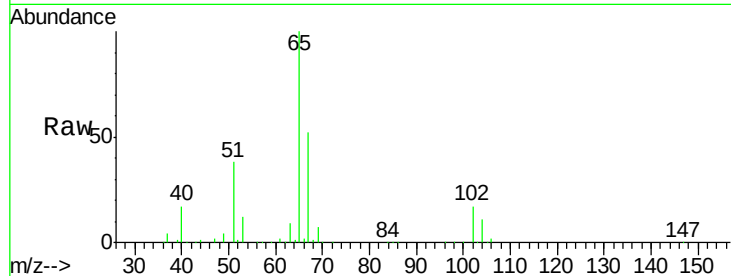




#33
 1,2-Dichloroethane-d4
 Concen: 50.623 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN054577.D
 Acq: 23 Mar 2019 00:58

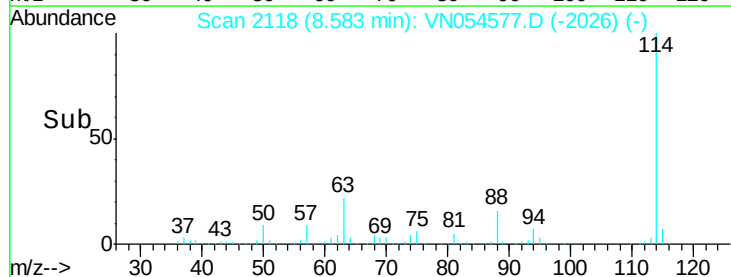
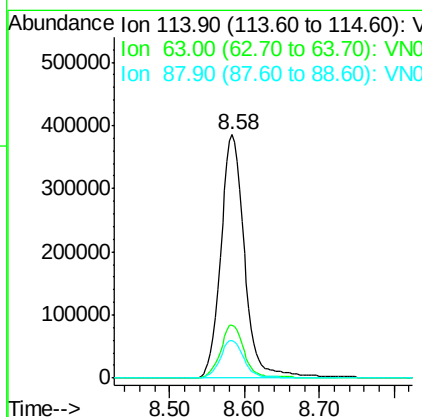
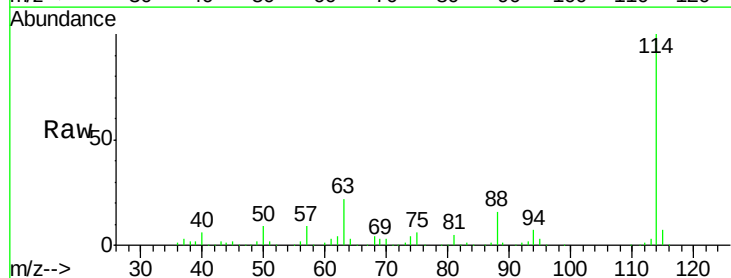
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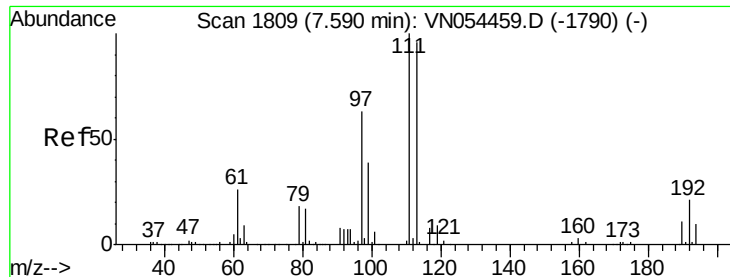
Tot Ion: 65 Resp: 344768
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN054577.D
 Acq: 23 Mar 2019 00:58

Tgt Ion: 114 Resp: 847053
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 35.2
 88 15.7 0.0 30.2

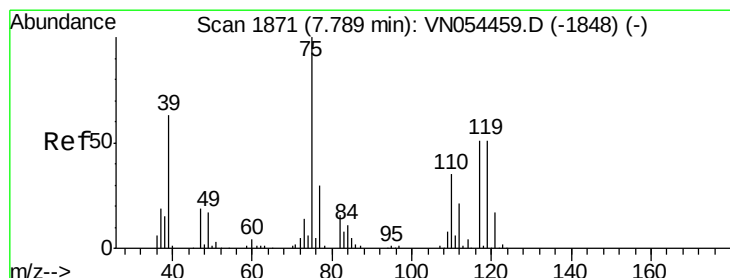
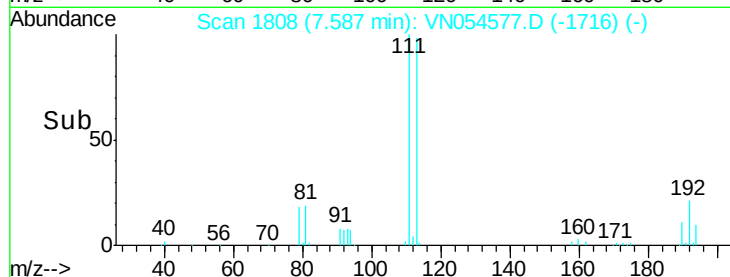
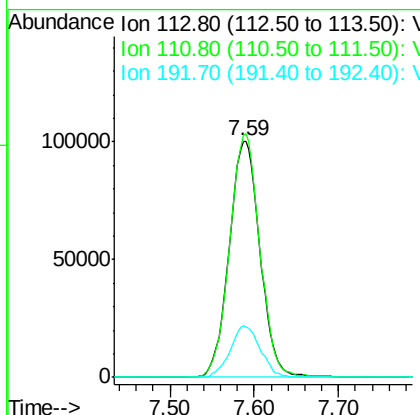
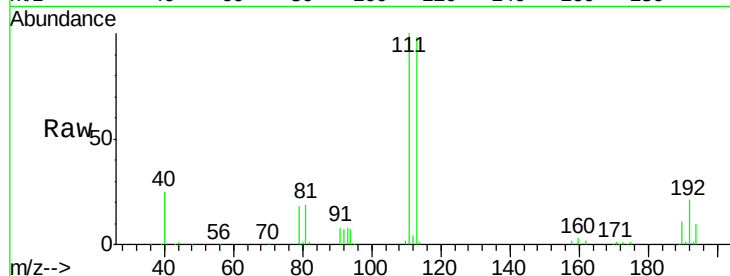




#35
 Dibromofluoromethane
 Concen: 46.715 ug/l
 RT: 7.59 min Scan# 1808
 Delta R.T. -0.00 min
 Lab File: VN054577.D
 Acq: 23 Mar 2019 00:58

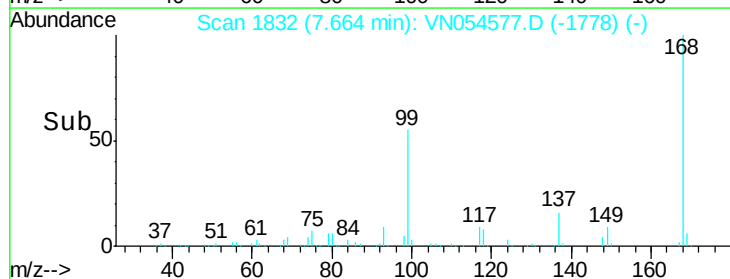
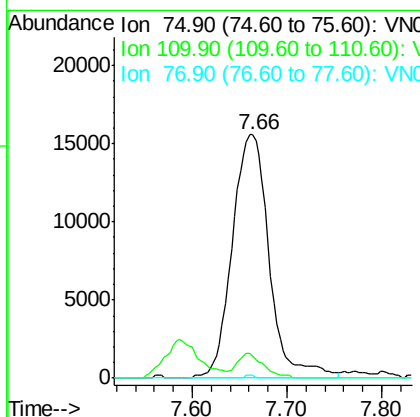
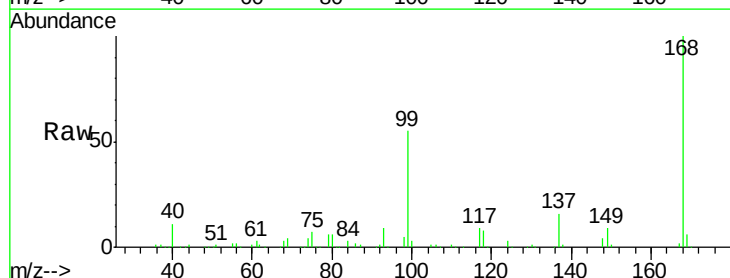
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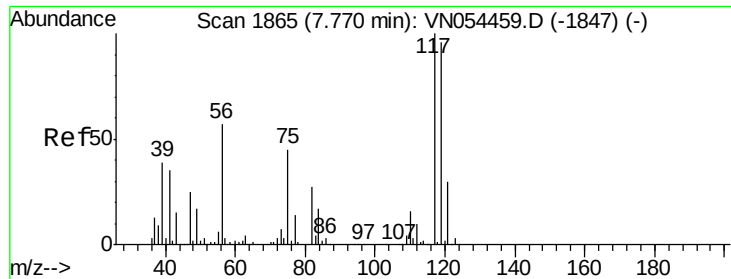
Tot Ion:113 Resp: 254929
 Ion Ratio Lower Upper
 113 100
 111 100.5 82.2 123.4
 192 21.3 19.2 28.8



#36
 1,1-Dichloropropene
 Concen: 5.332 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054577.D
 Acq: 23 Mar 2019 00:58

Tgt Ion: 75 Resp: 42233
 Ion Ratio Lower Upper
 75 100
 110 7.3 19.1 57.5#
 77 0.3 25.0 37.4#

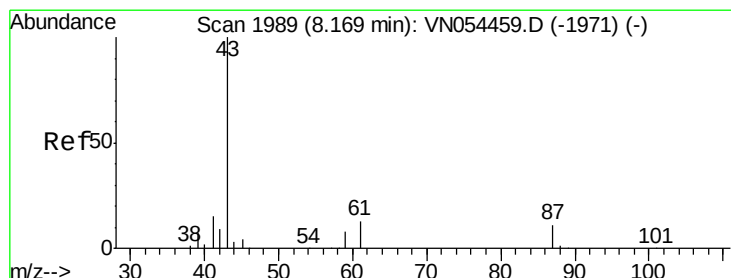
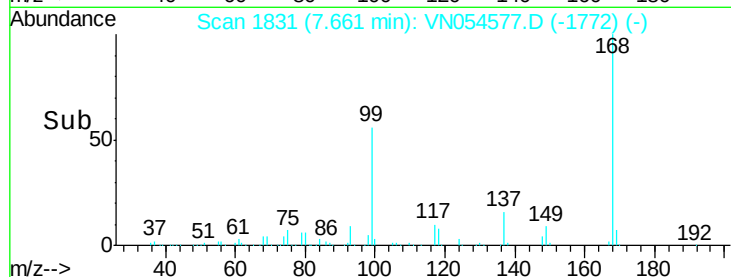
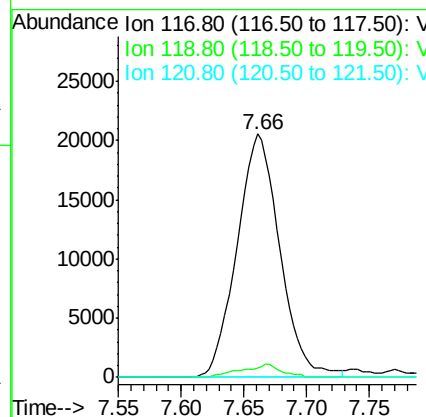
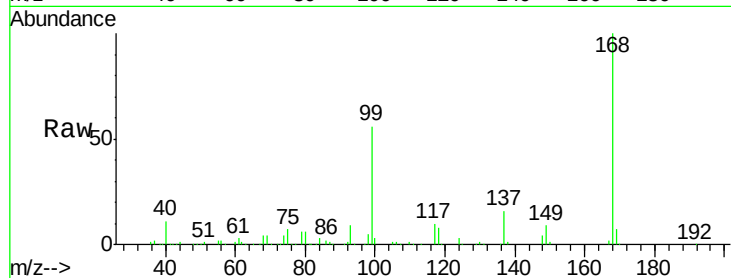




#38
Carbon Tetrachloride
Concen: 6.351 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN054577.D
Acq: 23 Mar 2019 00:58

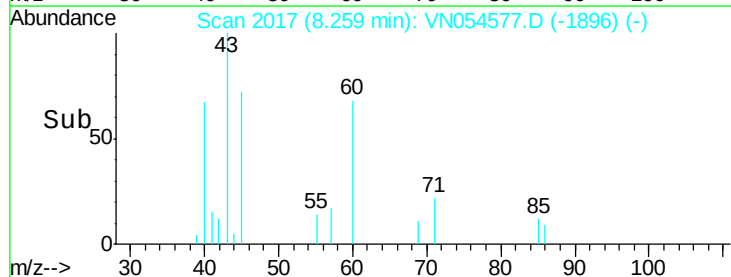
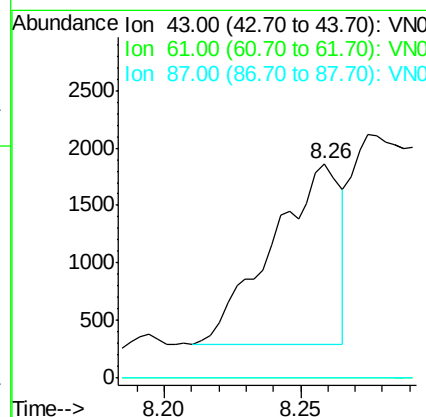
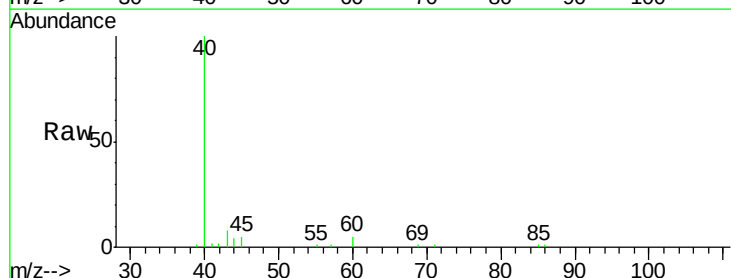
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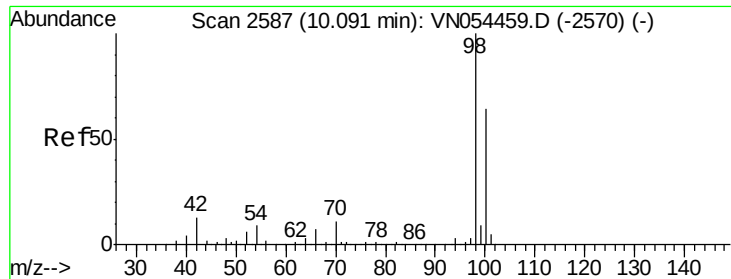
Tot Ion:117 Resp: 48880
Ion Ratio Lower Upper
117 100
119 3.7 76.3 114.5#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 0.289 ug/l
RT: 8.26 min Scan# 2017
Delta R.T. 0.09 min
Lab File: VN054577.D
Acq: 23 Mar 2019 00:58

Tgt Ion: 43 Resp: 2746
Ion Ratio Lower Upper
43 100
61 0.0 15.8 23.8#
87 0.0 12.0 18.0#





#50

Toluene-d8

Concen: 49.742 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN054577.D

Acq: 23 Mar 2019 00:58

Instrument :

MSVOA_N

ClientSampleId :

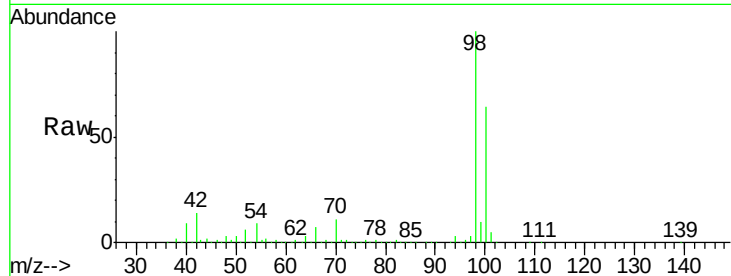
WP022SB439-190318-(13-14)MSD

Tot Ion: 98 Resp: 1020470

Ion Ratio Lower Upper

98 100

100 63.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

600000

500000

400000

300000

200000

100000

0

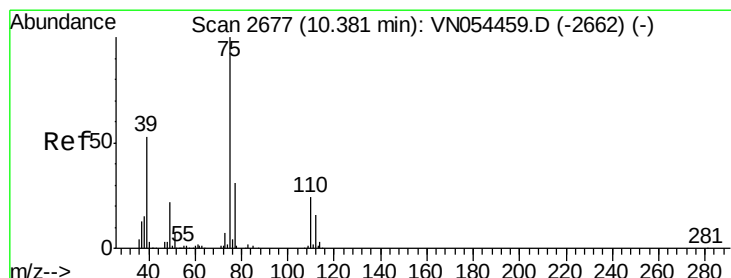
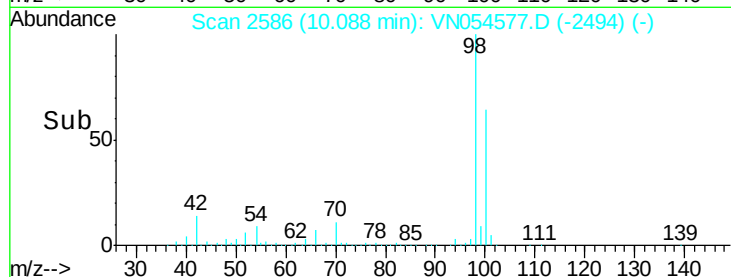
10.09

10.10

10.20

10.30

Time-->



#53

t-1,3-Dichloropropene

Concen: 2.236 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054577.D

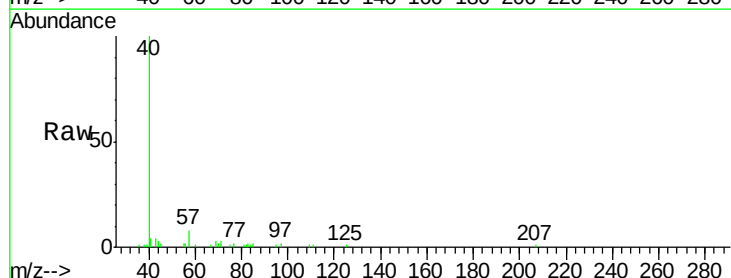
Acq: 23 Mar 2019 00:58

Tgt Ion: 75 Resp: 30

Ion Ratio Lower Upper

75 100

77 58.2 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

500

400

300

200

100

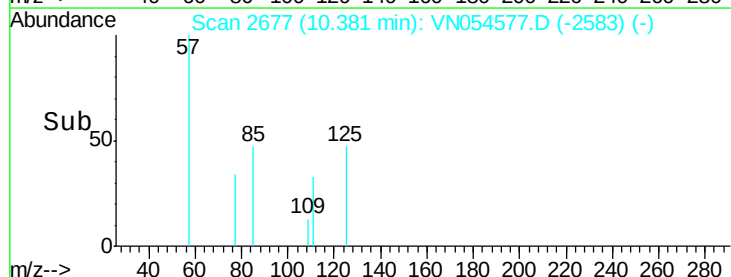
0

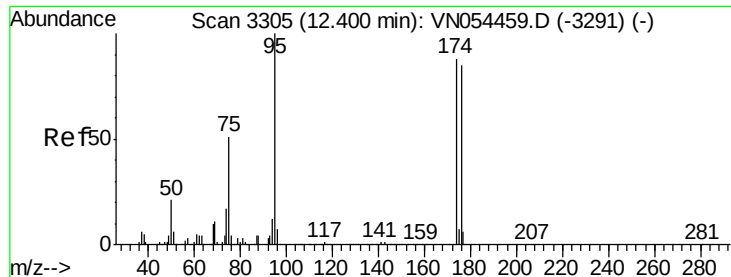
10.38

10.37

10.39

Time-->





#62

4-Bromofluorobenzene

Concen: 45.934 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054577.D

Acq: 23 Mar 2019 00:58

Instrument :

MSVOA_N

ClientSampleId :

WP022SB439-190318-(13-14)MSD

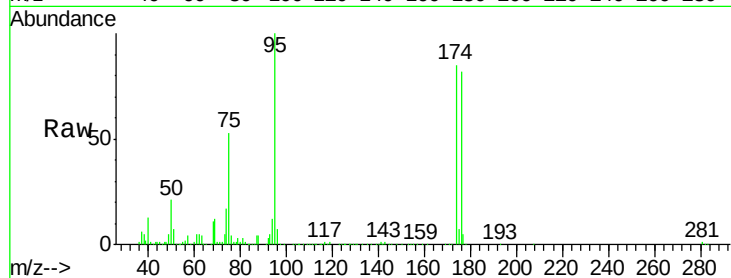
Tot Ion: 95 Resp: 320668

Ion Ratio Lower Upper

95 100

174 84.9 0.0 191.0

176 81.7 0.0 187.4

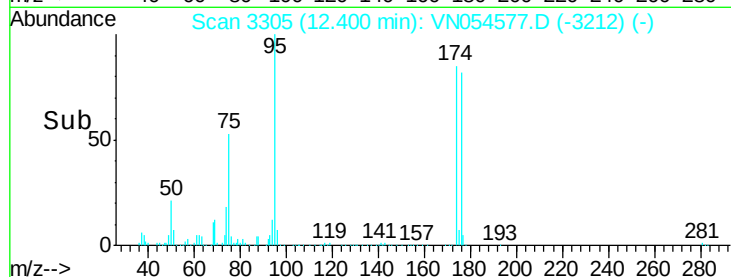


Abundance Ion 94.90 (94.60 to 95.60): VN054459.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN054459.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN054459.D (-3291) (-)

Time-->

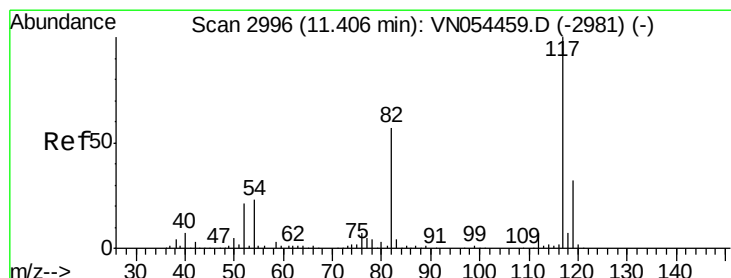


Abundance Ion 94.90 (94.60 to 95.60): VN054577.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN054577.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN054577.D (-3212) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054577.D

Acq: 23 Mar 2019 00:58

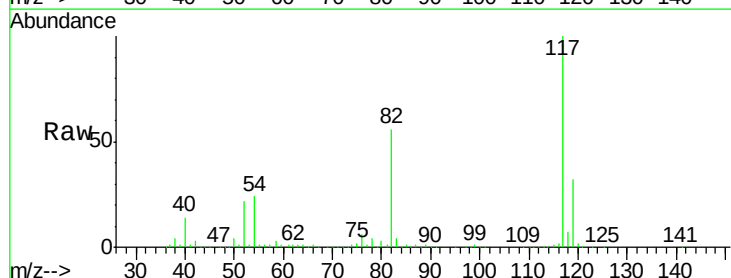
Tgt Ion: 117 Resp: 715336

Ion Ratio Lower Upper

117 100

82 56.3 40.0 60.0

119 32.3 25.8 38.6

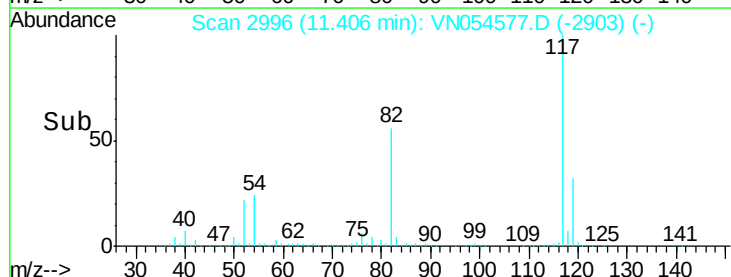


Abundance Ion 116.90 (116.60 to 117.60): VN054459.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN054459.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN054459.D (-2981) (-)

Time-->

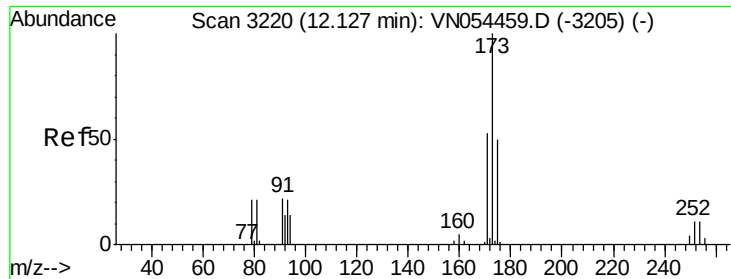


Abundance Ion 116.90 (116.60 to 117.60): VN054577.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054577.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054577.D (-2903) (-)

Time-->



#71

Bromoform

Concen: 2.287 ug/l

RT: 12.38 min Scan# 3300

Delta R.T. 0.26 min

Lab File: VN054577.D

Acq: 23 Mar 2019 00:58

Instrument :

MSVOA_N

ClientSampleId :

WP022SB439-190318-(13-14)MSD

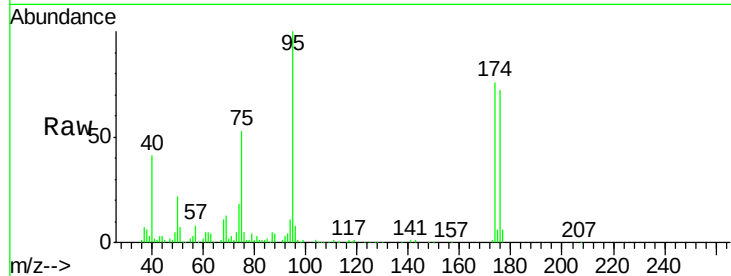
Tot Ion:173 Resp: 252

Ion Ratio Lower Upper

173 100

175 7305.2 24.4 73.2#

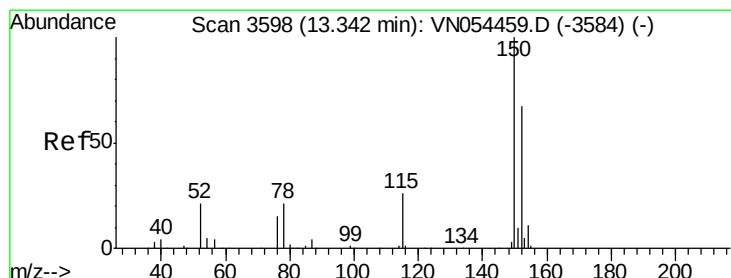
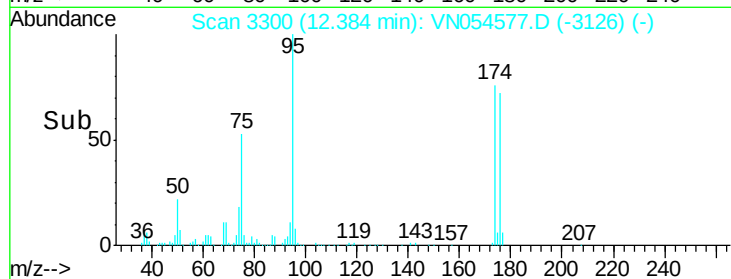
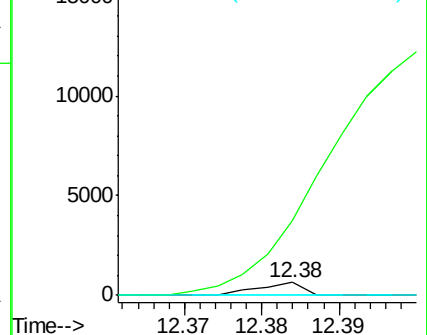
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054577.D

Acq: 23 Mar 2019 00:58

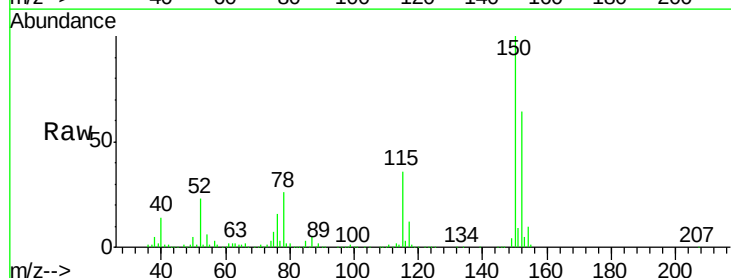
Tgt Ion:152 Resp: 291360

Ion Ratio Lower Upper

152 100

115 57.2 27.2 81.6

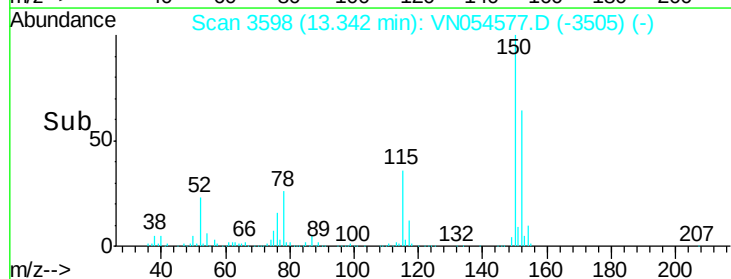
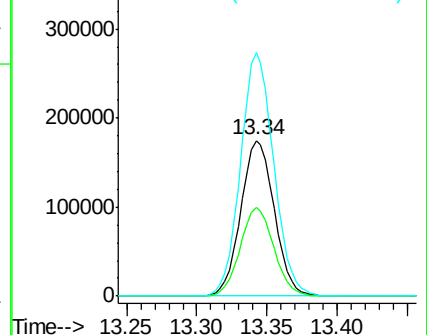
150 154.6 0.0 349.2

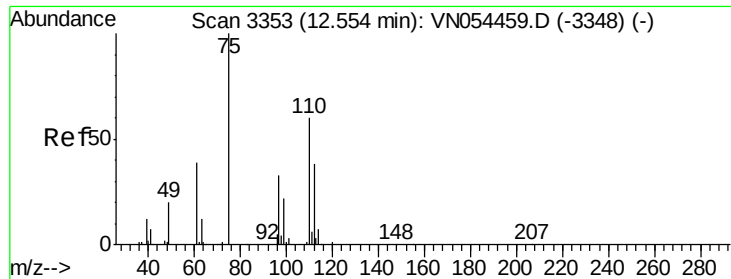


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.321 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054577.D

Acq: 23 Mar 2019 00:58

Instrument :

MSVOA_N

ClientSampleId :

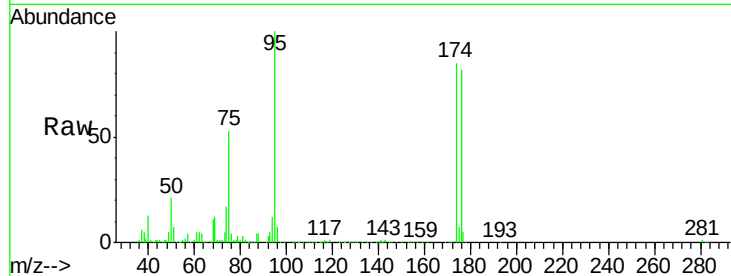
WP022SB439-190318-(13-14)MSD

Tot Ion: 75 Resp: 167927

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

100000

80000

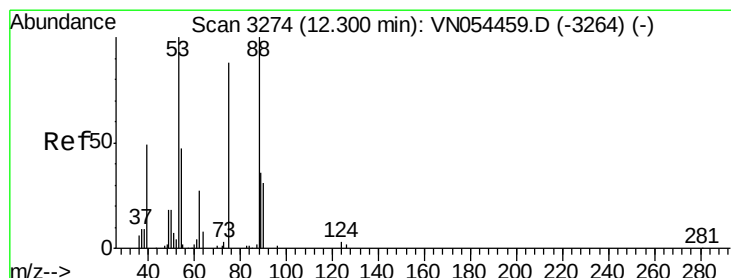
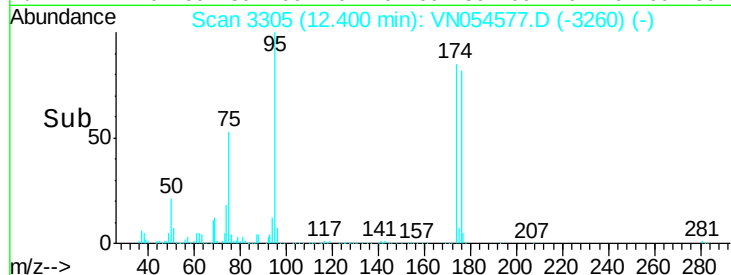
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 120.440 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054577.D

Acq: 23 Mar 2019 00:58

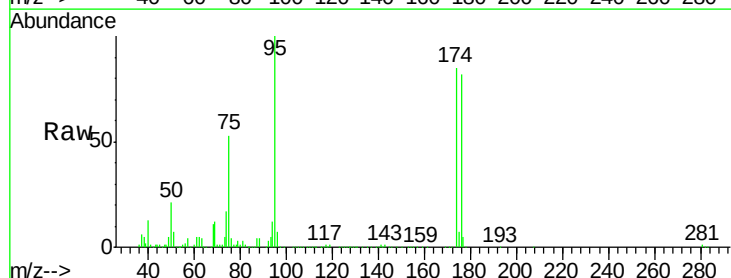
Tgt Ion: 75 Resp: 167927

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



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

12.40

120000

100000

80000

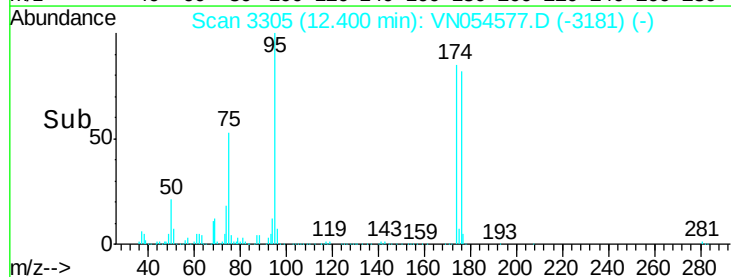
60000

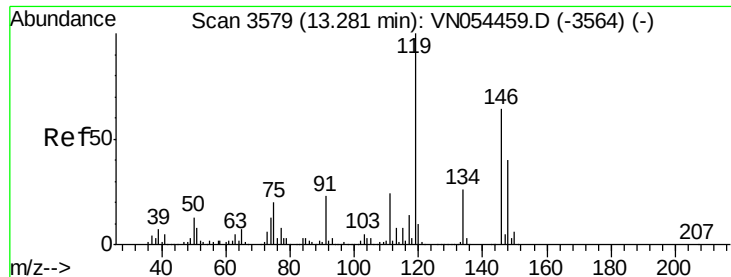
40000

20000

0

Time--> 12.30 12.40 12.50

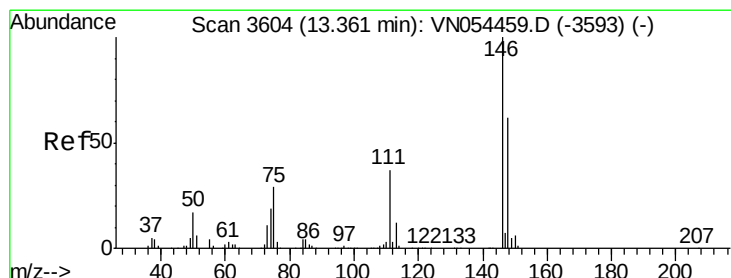
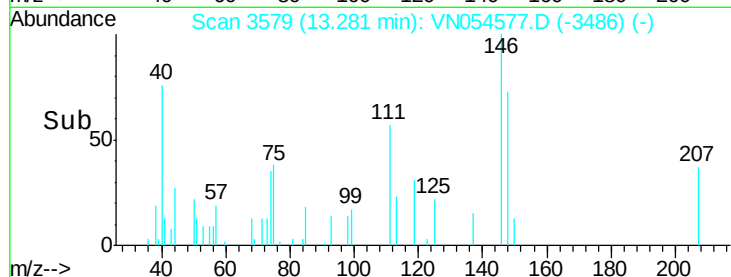
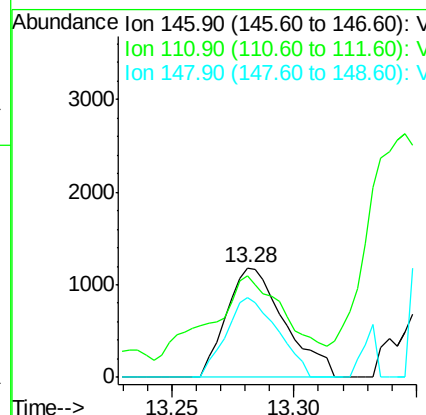
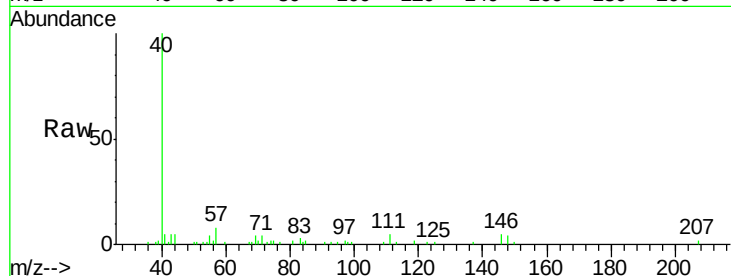




#87
 1,3-Dichlorobenzene
 Concen: 0.202 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN054577.D
 Acq: 23 Mar 2019 00:58

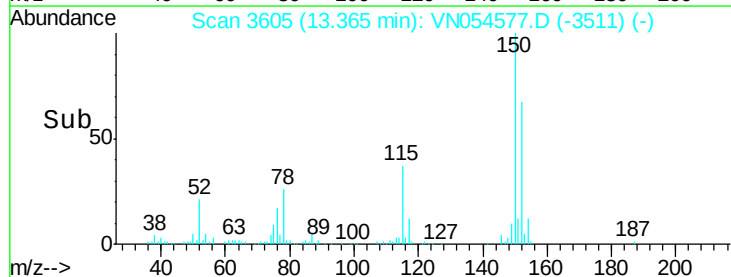
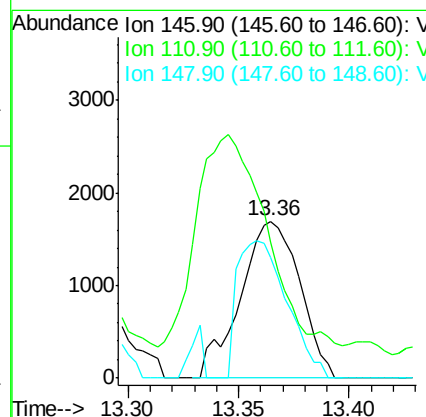
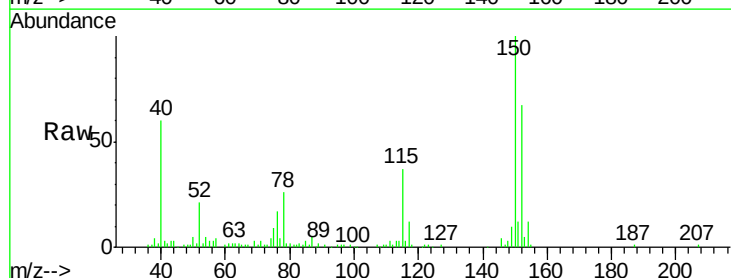
Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

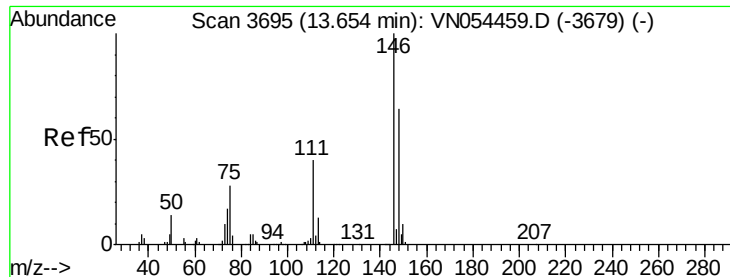
Tot Ion:146 Resp: 1951
 Ion Ratio Lower Upper
 146 100
 111 97.3 18.8 56.3#
 148 65.1 32.2 96.6



#88
 1,4-Dichlorobenzene
 Concen: 0.338 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054577.D
 Acq: 23 Mar 2019 00:58

Tgt Ion:146 Resp: 3174
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.1 54.1#
 148 73.5 32.0 96.0

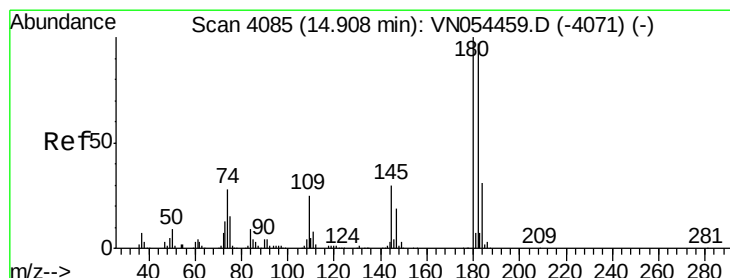
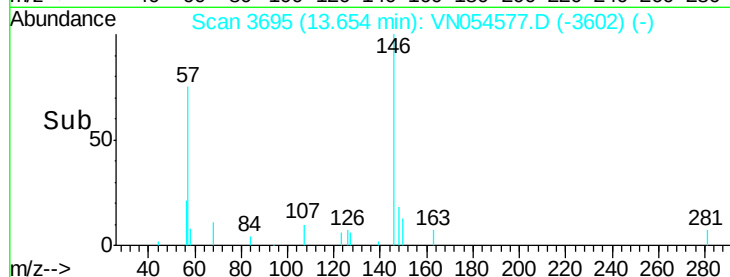
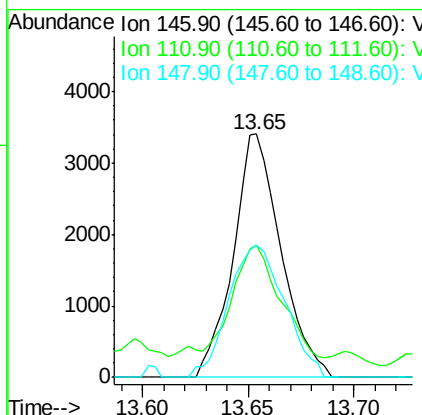
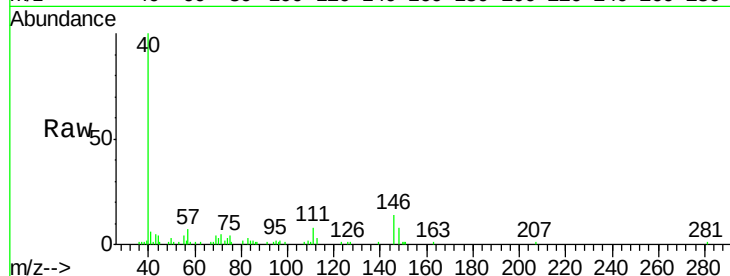




#91
 1,2-Dichlorobenzene
 Concen: 0.571 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN054577.D
 Acq: 23 Mar 2019 00:58

Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Tot Ion:146 Resp: 5339
 Ion Ratio Lower Upper
 146 100
 111 47.4 19.1 57.3
 148 63.8 32.4 97.0



#93
 1,2,4-Trichlorobenzene
 Concen: 0.274 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN054577.D
 Acq: 23 Mar 2019 00:58

Tgt Ion:180 Resp: 1275
 Ion Ratio Lower Upper
 180 100
 182 126.0 48.0 144.2
 145 42.4 14.2 42.8

