

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012420\
 Data File : VN059854.D
 Acq On : 24 Jan 2020 18:38
 Operator : JC/MD
 Sample : PB126303ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 25 00:30:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	202808	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	305532	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	270804	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	109837	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	106572	47.32	ug/l	0.00
Spiked Amount						
			Recovery	=	94.64%	
35) Dibromofluoromethane	7.56	113	91561	50.25	ug/l	0.00
Spiked Amount						
			Recovery	=	100.50%	
50) Toluene-d8	10.08	98	363038	51.43	ug/l	0.00
Spiked Amount						
			Recovery	=	102.86%	
62) 4-Bromofluorobenzene	12.40	95	118266	46.47	ug/l	0.00
Spiked Amount						
			Recovery	=	92.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	312	0.823	ug/l #	72
16) Acetone	3.80	43	4208	Below Cal		100
18) Methyl Acetate	4.30	43	7850	2.984	ug/l	96
20) Methylene Chloride	4.53	84	4575	0.976	ug/l #	81
25) 2-Butanone	6.81	43	744	0.583	ug/l #	50
31) Cyclohexane	7.64	56	3491	1.048	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13779	5.179	ug/l #	51
38) Carbon Tetrachloride	7.64	117	18156	6.273	ug/l #	16
43) Isopropyl Acetate	8.14	43	38774	9.033	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	832	0.424	ug/l #	44
48) Methyl methacrylate	9.17	41	2360	1.229	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2607	1.051	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	18314	5.585	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3171	1.006	ug/l #	42
59) 2-Hexanone	10.75	43	40629	22.226	ug/l #	56
71) Bromoform	12.40	173	565	0.343	ug/l #	1
74) N-amyl acetate	12.05	43	705	0.226	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	59520	32.200	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2231	0.329	ug/l	89
81) trans-1,4-Dichloro-2-buten	12.40	75	59520	69.150	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.28	75	63	Below Cal	#	6

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059854.D

Acq: 24 Jan 2020 18:38

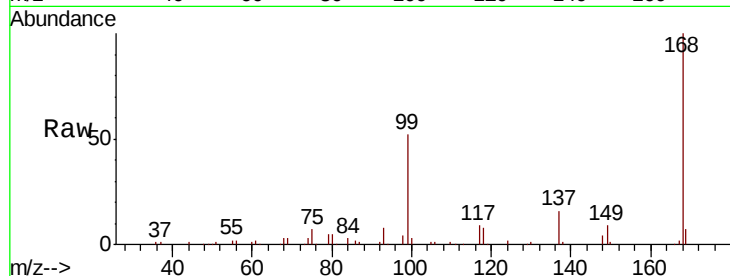
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 202808

Ion Ratio Lower Upper

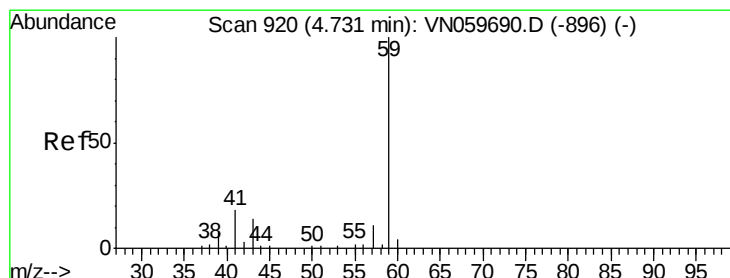
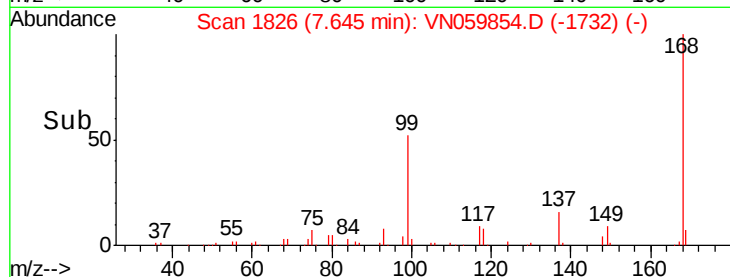
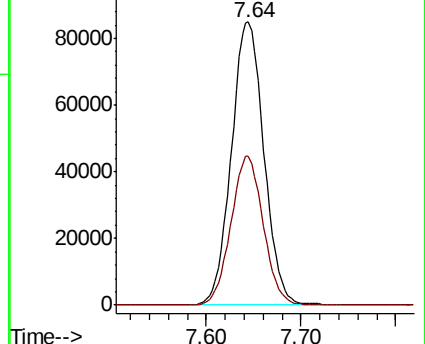
168 100

99 52.5 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.823 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.01 min

Lab File: VN059854.D

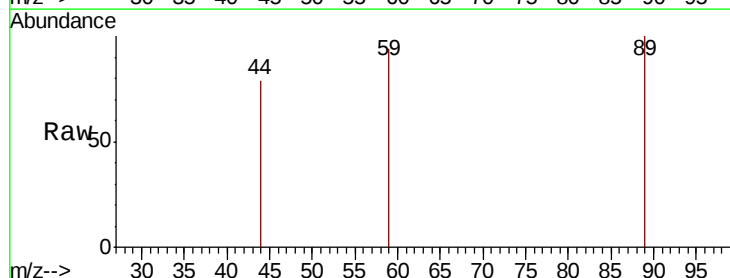
Acq: 24 Jan 2020 18:38

Tgt Ion: 59 Resp: 312

Ion Ratio Lower Upper

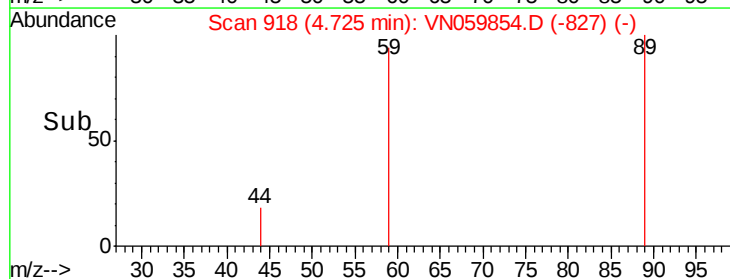
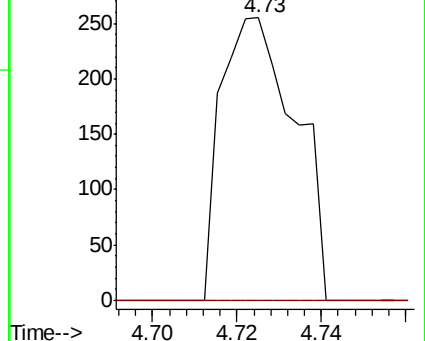
59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 630

Delta R.T. 0.02 min

Lab File: VN059854.D

Acq: 24 Jan 2020 18:38

Instrument :

MSVOA_N

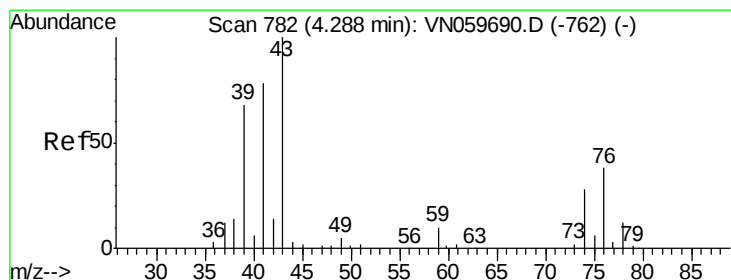
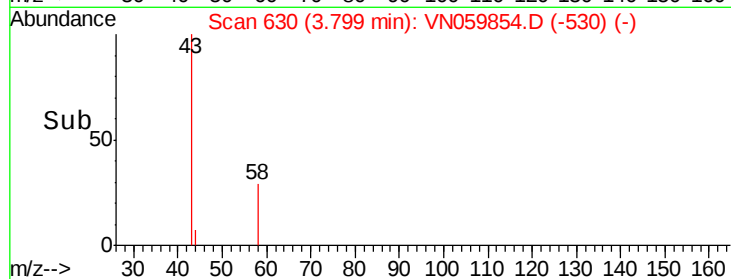
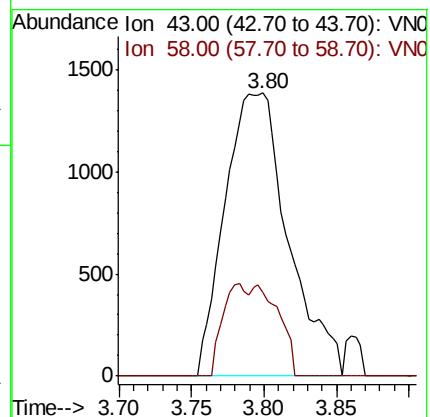
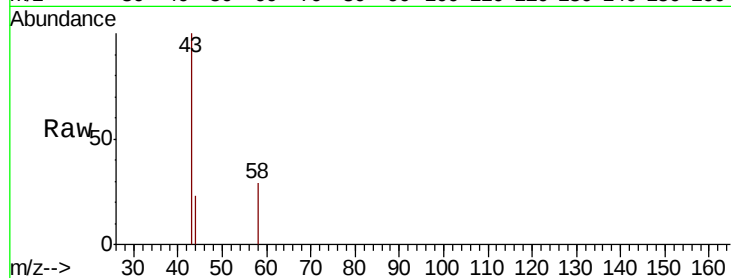
ClientSampled :

Tot Ion: 43 Resp: 4208

Ion Ratio Lower Upper

43 100

58 29.4 23.6 35.4



#18

Methyl Acetate

Concen: 2.984 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.01 min

Lab File: VN059854.D

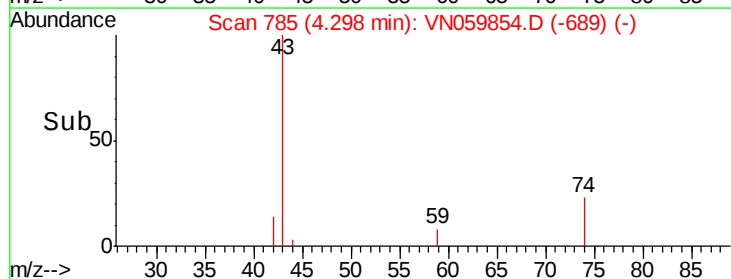
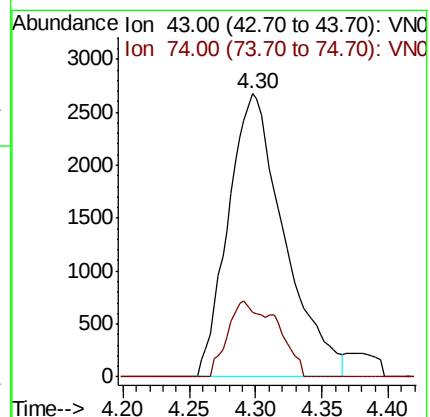
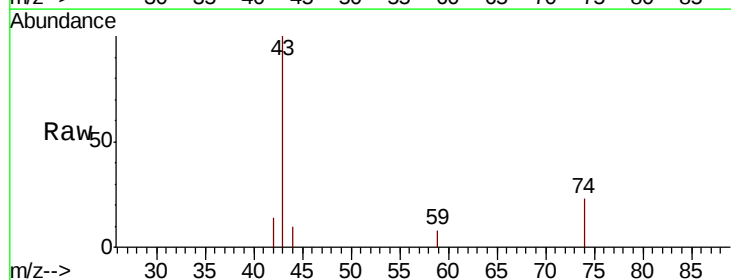
Acq: 24 Jan 2020 18:38

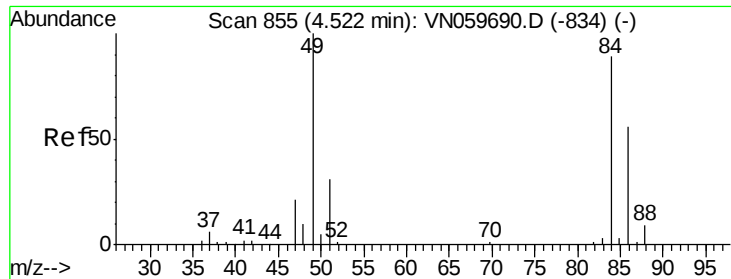
Tgt Ion: 43 Resp: 7850

Ion Ratio Lower Upper

43 100

74 23.6 17.5 26.3

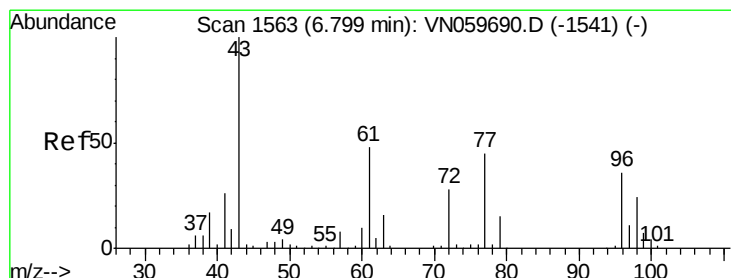
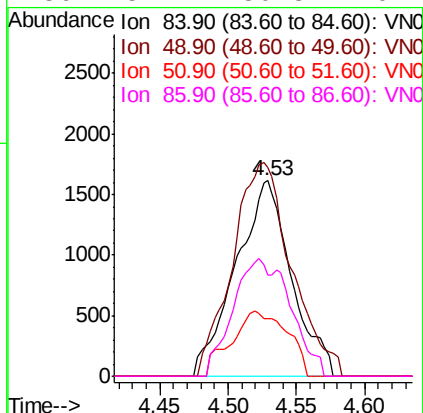
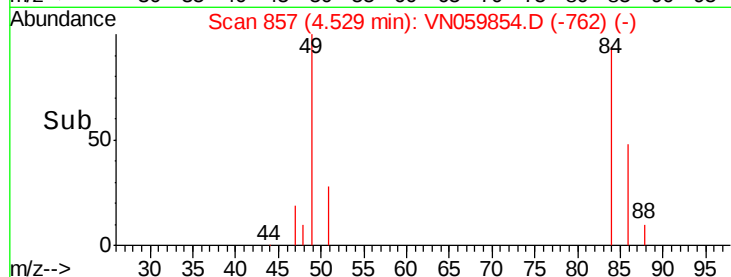
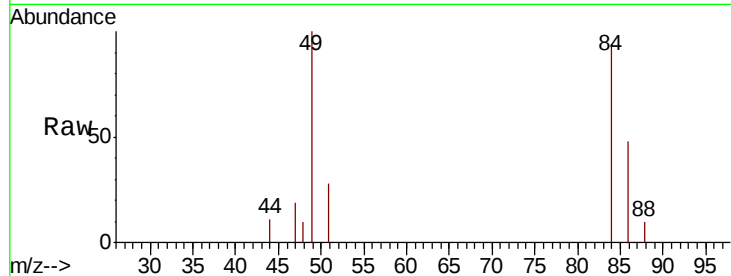




#20
Methvlene Chloride
Concen: 0.976 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN059854.D
Acq: 24 Jan 2020 18:38

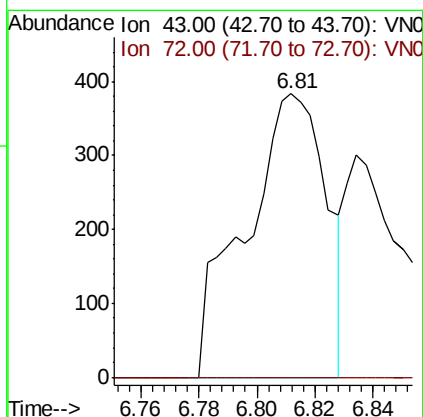
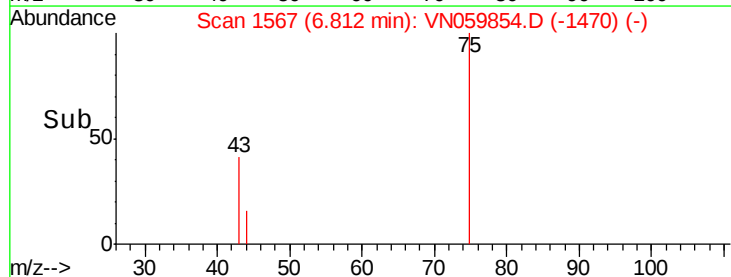
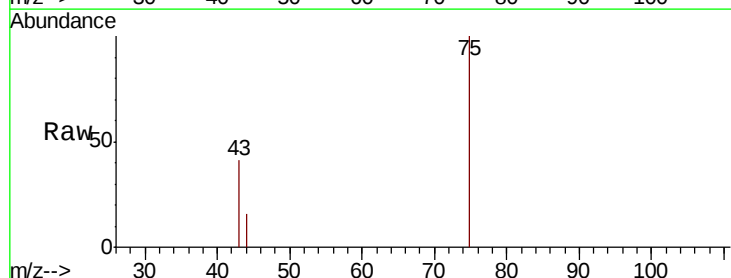
Instrument :
MSVOA_N
ClientSampled :

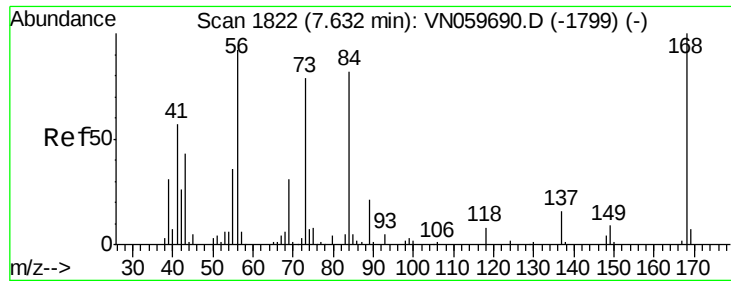
Tot Ion: 84 Resp: 4575
Ion Ratio Lower Upper
84 100
49 106.9 106.6 160.0
51 29.5 31.9 47.9#
86 51.7 50.8 76.2



#25
2-Butanone
Concen: 0.583 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN059854.D
Acq: 24 Jan 2020 18:38

Tgt Ion: 43 Resp: 744
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#

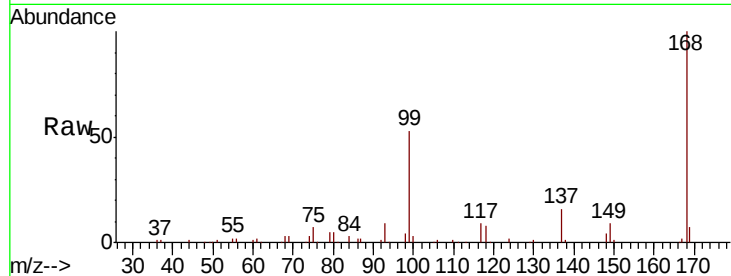




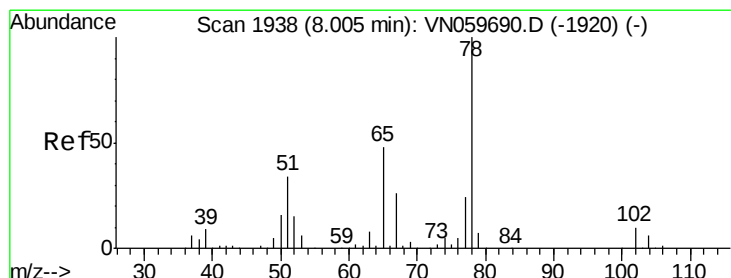
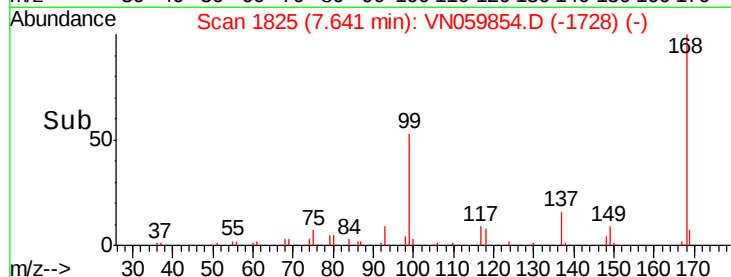
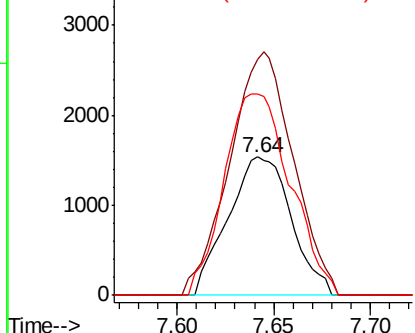
#31
Cyclohexane
Concen: 1.048 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059854.D
Acq: 24 Jan 2020 18:38

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3491
Ion Ratio Lower Upper
56 100
69 170.4 26.5 39.7#
84 145.2 65.3 97.9#

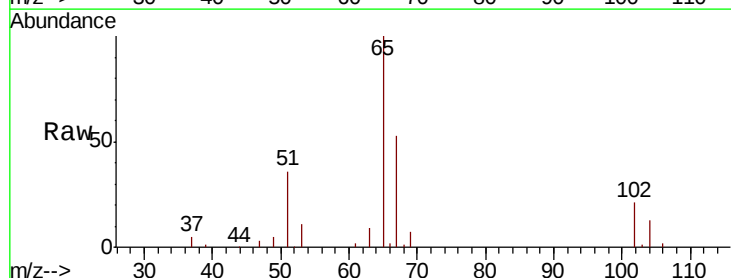


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

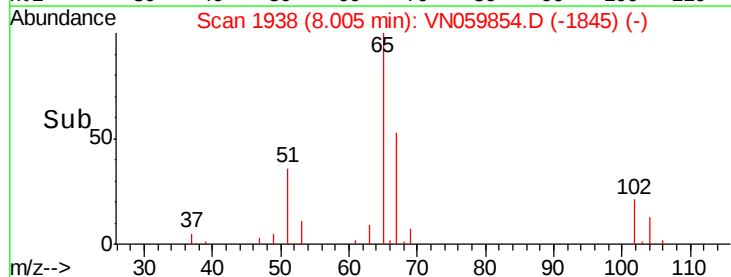
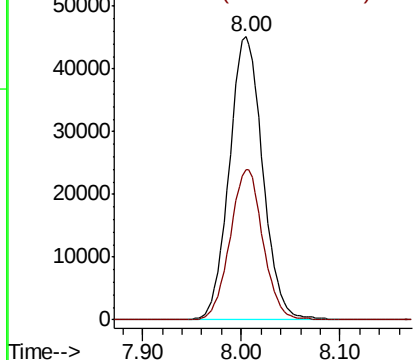


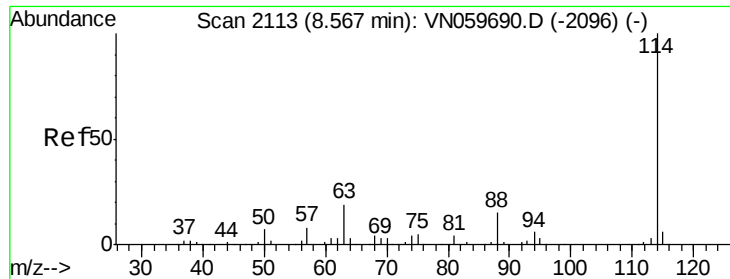
#33
1,2-Dichloroethane-d4
Concen: 47.318 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN059854.D
Acq: 24 Jan 2020 18:38

Tgt Ion: 65 Resp: 106572
Ion Ratio Lower Upper
65 100
67 52.3 0.0 103.0



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

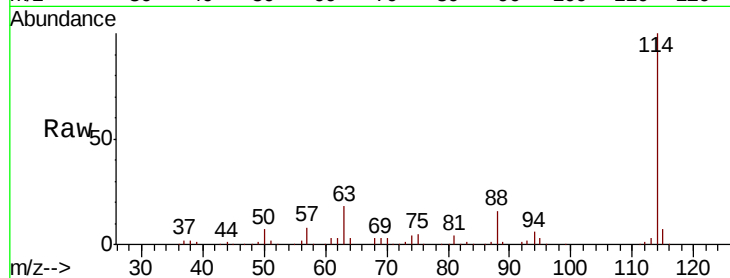




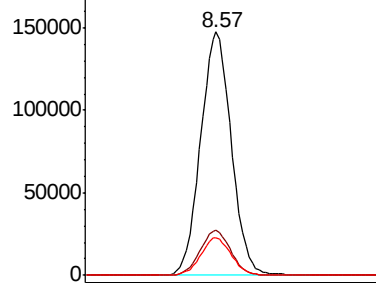
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059854.D
 Acq: 24 Jan 2020 18:38

Instrument :
 MSVOA_N
 ClientSampled :

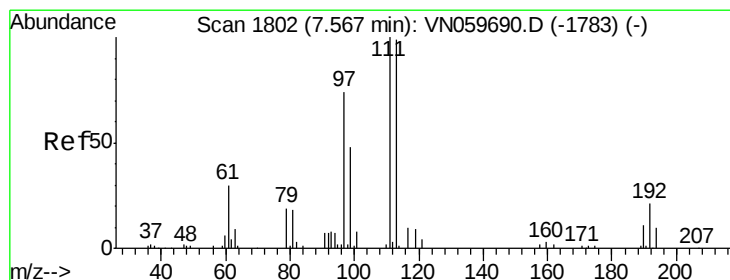
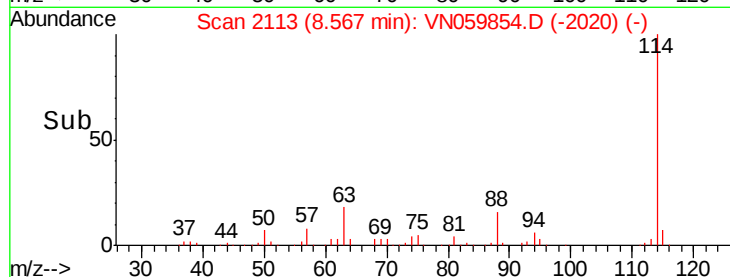
Tot Ion:114 Resp: 305532
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 43.6
 88 15.6 0.0 31.4



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

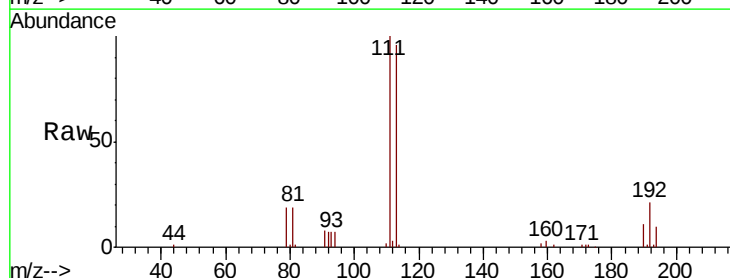


Time-->

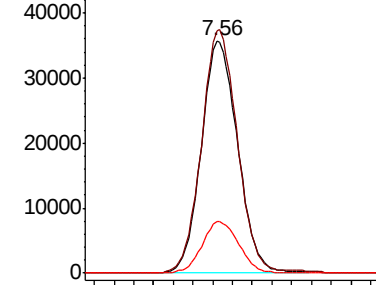


#35
 Dibromofluoromethane
 Concen: 50.252 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN059854.D
 Acq: 24 Jan 2020 18:38

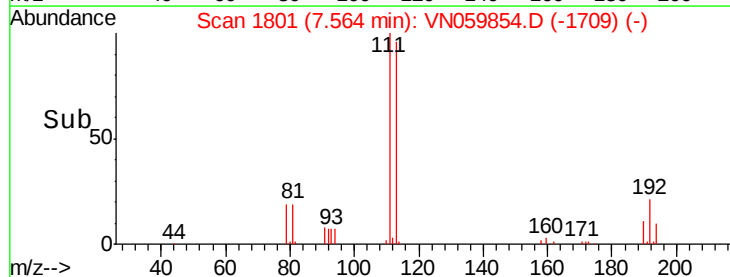
Tgt Ion:113 Resp: 91561
 Ion Ratio Lower Upper
 113 100
 111 103.0 83.5 125.3
 192 22.4 15.4 23.2

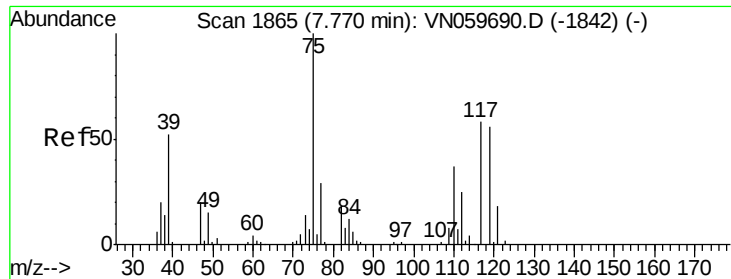


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V



Time-->

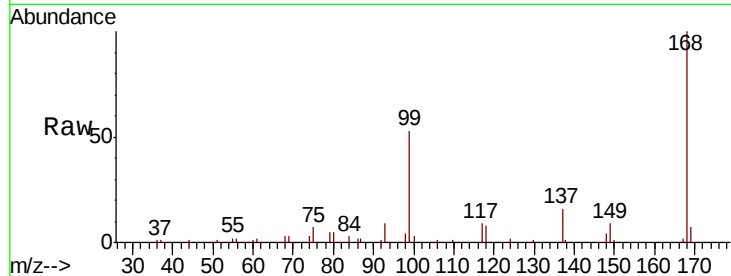




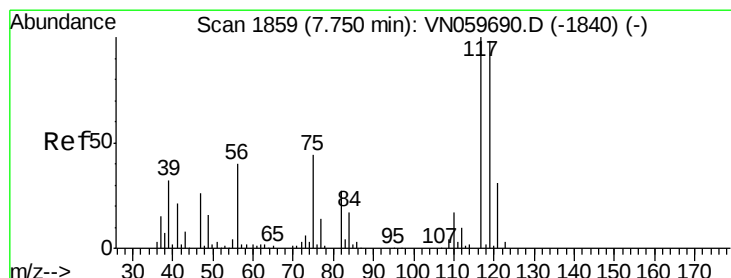
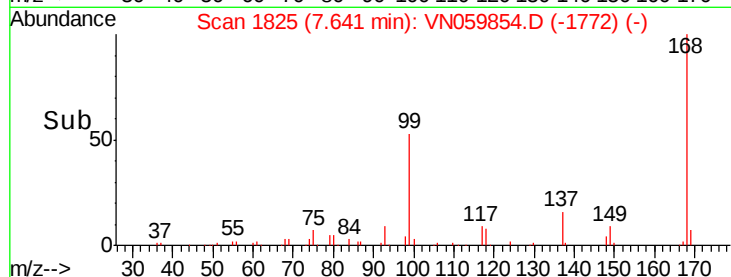
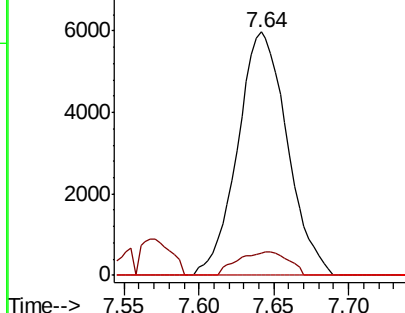
#36
 1,1-Dichloropropene
 Concen: 5.179 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059854.D
 Acq: 24 Jan 2020 18:38

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	75	Resp	13779
Ion Ratio	Lower	Upper	
75	100		
110	9.7	16.6	49.7#
77	0.0	25.1	37.7#

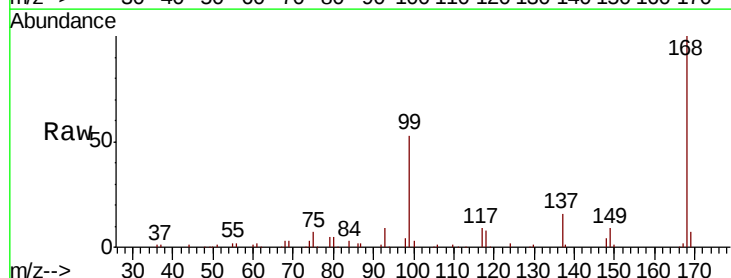


Abundance Ion 74.90 (74.60 to 75.60): VN059854.D (-1772) (-)
 Ion 109.90 (109.60 to 110.60): VN059854.D (-1772) (-)
 Ion 76.90 (76.60 to 77.60): VN059854.D (-1772) (-)

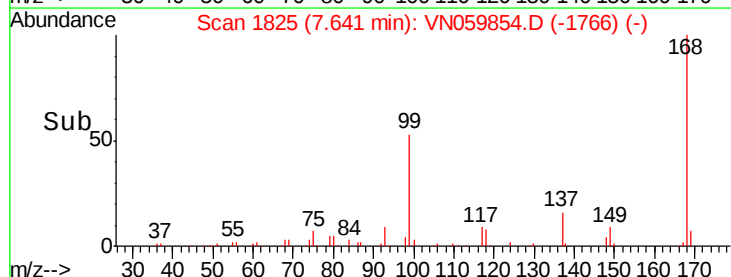
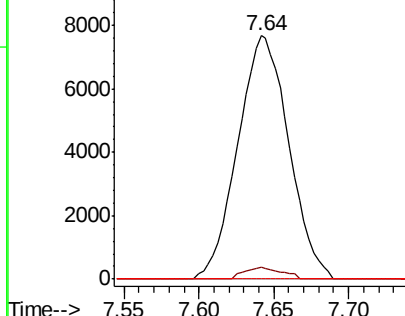


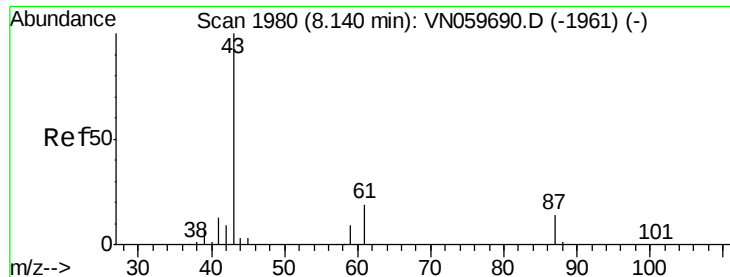
#38
 Carbon Tetrachloride
 Concen: 6.273 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059854.D
 Acq: 24 Jan 2020 18:38

Tgt Ion	117	Resp	18156
Ion Ratio	Lower	Upper	
117	100		
119	4.6	76.5	114.7#
121	0.0	25.1	37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN059854.D (-1766) (-)
 Ion 118.80 (118.50 to 119.50): VN059854.D (-1766) (-)
 Ion 120.80 (120.50 to 121.50): VN059854.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 9.033 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059854.D

Acq: 24 Jan 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

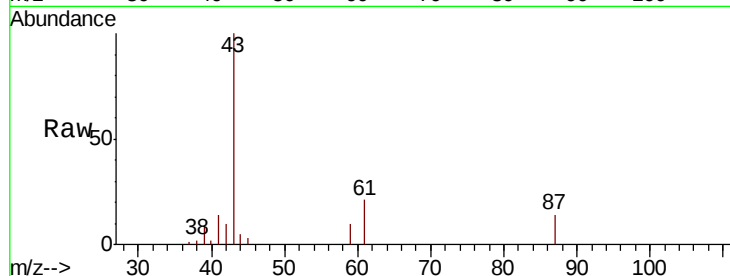
Tot Ion: 43 Resp: 38774

Ion Ratio Lower Upper

43 100

61 20.6 20.2 30.2

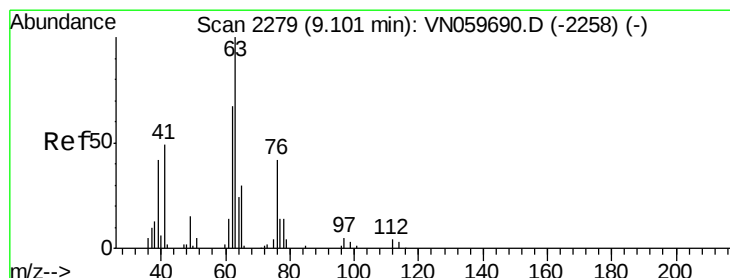
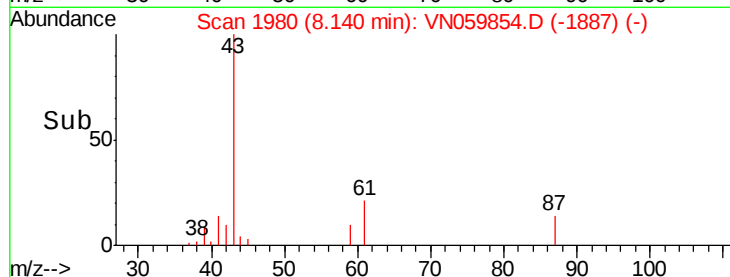
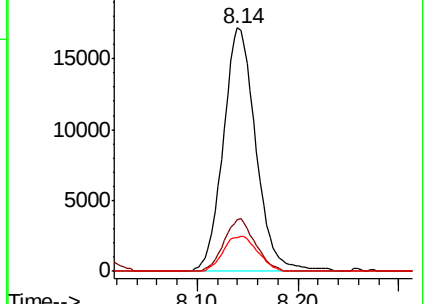
87 15.1 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059854.D (-2186) (-)

Ion 61.00 (60.70 to 61.70): VN059854.D (-2186) (-)

Ion 87.00 (86.70 to 87.70): VN059854.D (-2186) (-)



#45

1,2-Dichloropropane

Concen: 0.424 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059854.D

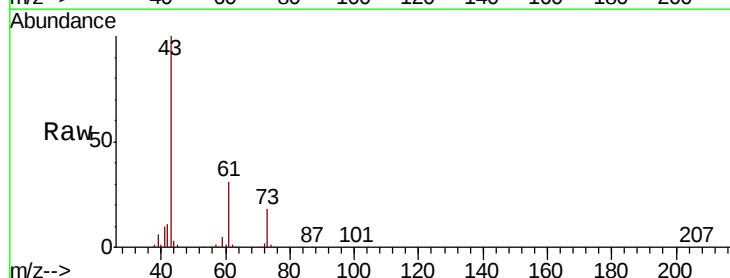
Acq: 24 Jan 2020 18:38

Tgt Ion: 63 Resp: 832

Ion Ratio Lower Upper

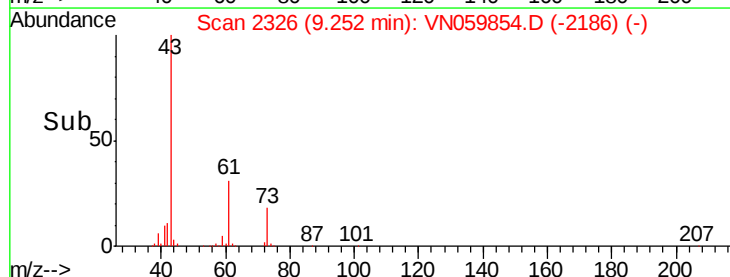
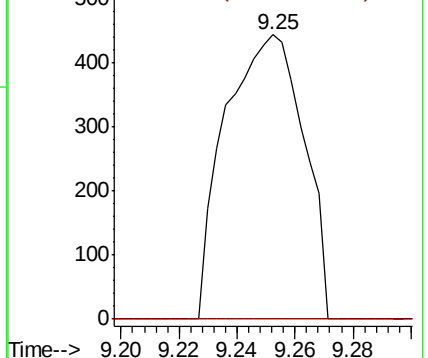
63 100

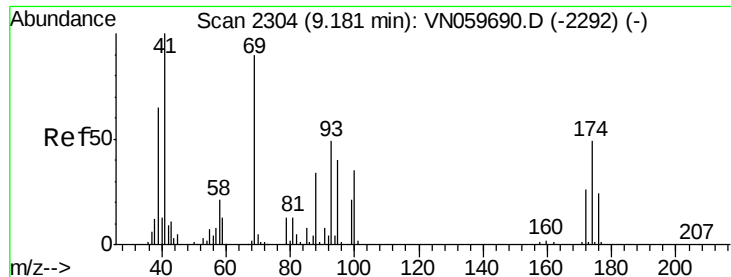
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059854.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059854.D (-2186) (-)

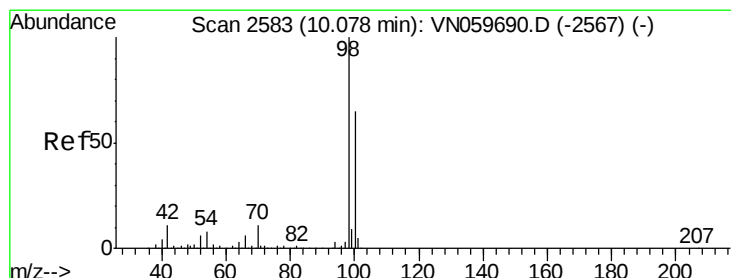
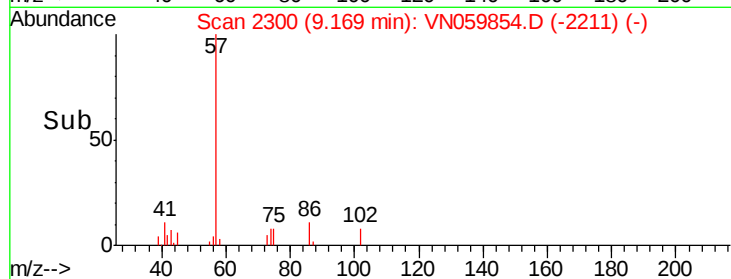
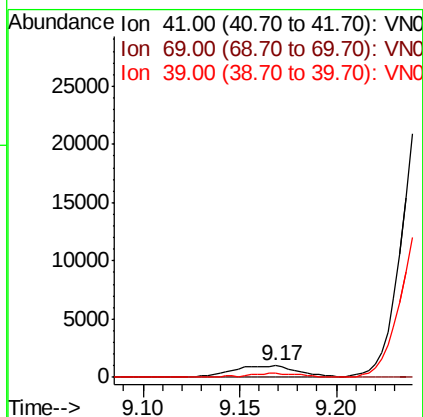
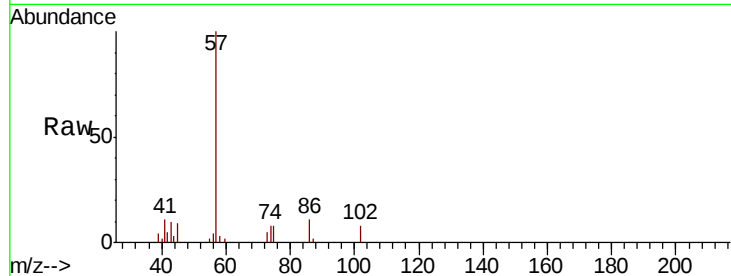




#48
Methvl methacrylate
Concen: 1.229 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.01 min
Lab File: VN059854.D
Acq: 24 Jan 2020 18:38

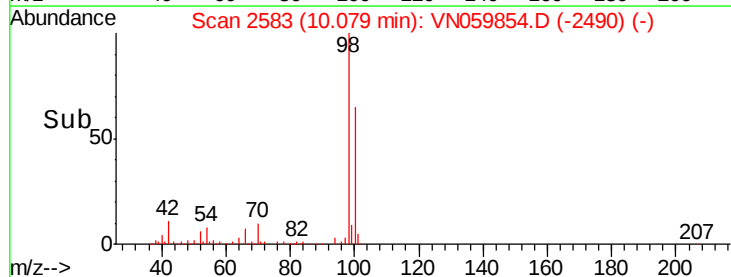
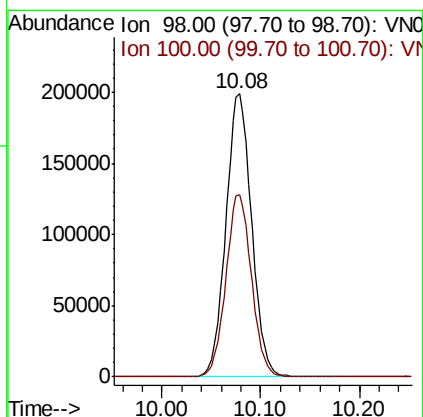
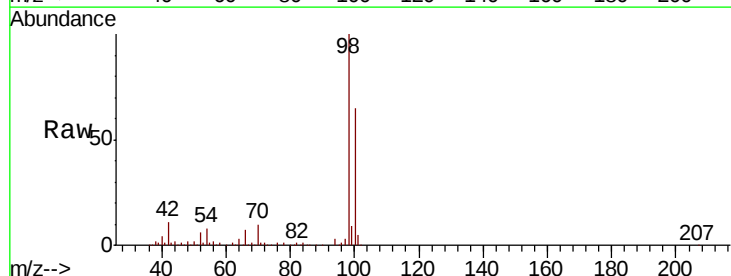
Instrument :
MSVOA_N
ClientSampled :

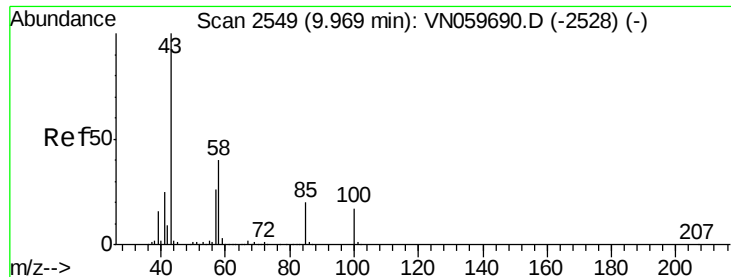
Tot Ion: 41 Resp: 2360
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 51.426 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059854.D
Acq: 24 Jan 2020 18:38

Tgt Ion: 98 Resp: 363038
Ion Ratio Lower Upper
98 100
100 64.2 51.2 76.8

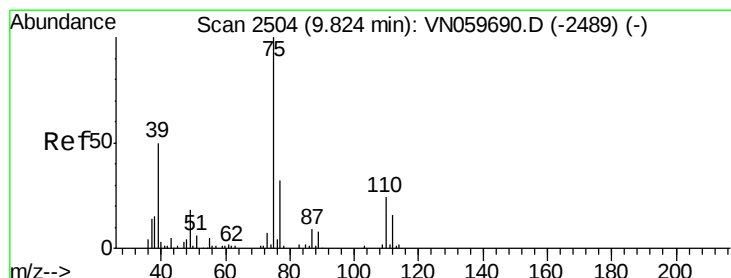
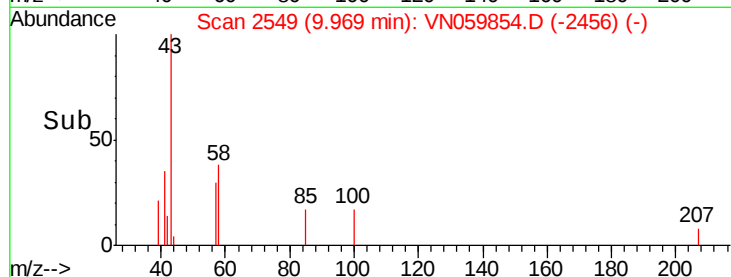
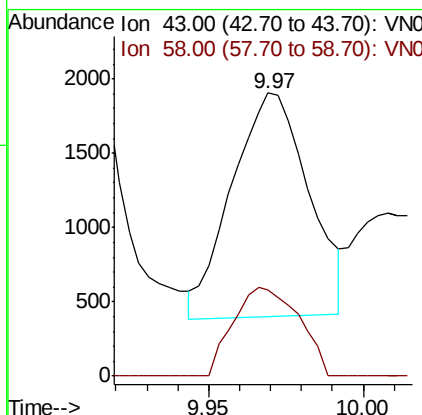
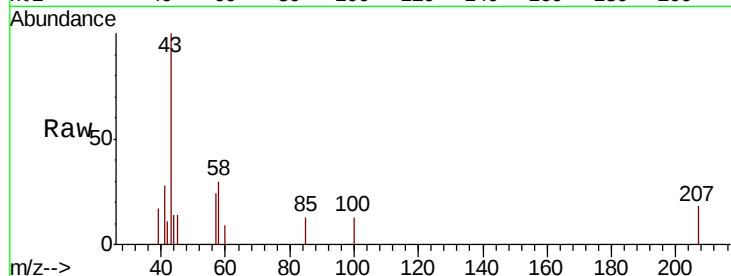




#51
4-Methyl-2-Pentanone
Concen: 1.051 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. 0.00 min
Lab File: VN059854.D
Acq: 24 Jan 2020 18:38

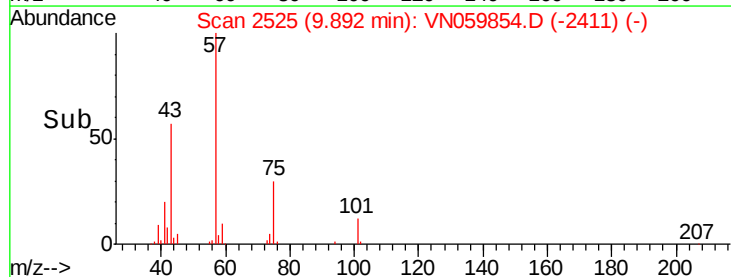
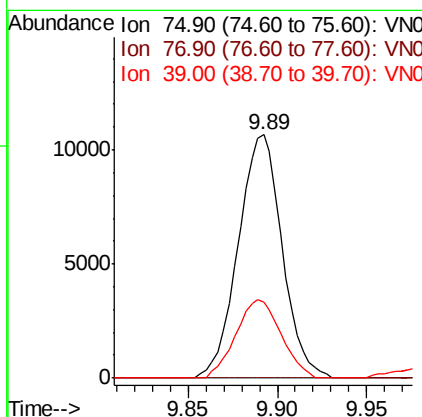
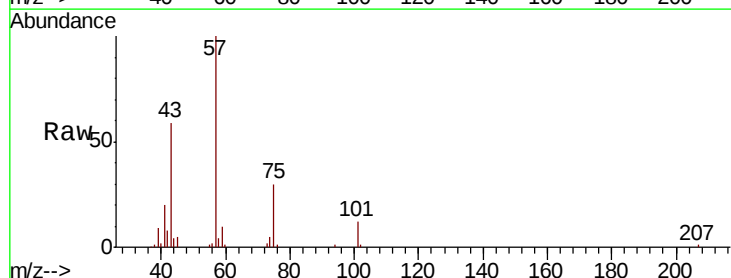
Instrument :
MSVOA_N
ClientSampled :

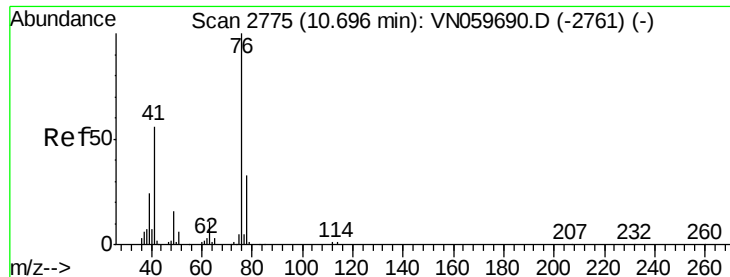
Tot Ion: 43 Resp: 2607
Ion Ratio Lower Upper
43 100
58 34.0 29.8 44.8



#54
cis-1,3-Dichloropropene
Concen: 5.585 ug/l
RT: 9.89 min Scan# 2525
Delta R.T. 0.07 min
Lab File: VN059854.D
Acq: 24 Jan 2020 18:38

Tgt Ion: 75 Resp: 18314
Ion Ratio Lower Upper
75 100
77 0.0 25.1 37.7#
39 30.9 46.1 69.1#





#57

1,3-Dichloropropane

Concen: 1.006 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059854.D

Acq: 24 Jan 2020 18:38

Instrument :

MSVOA_N

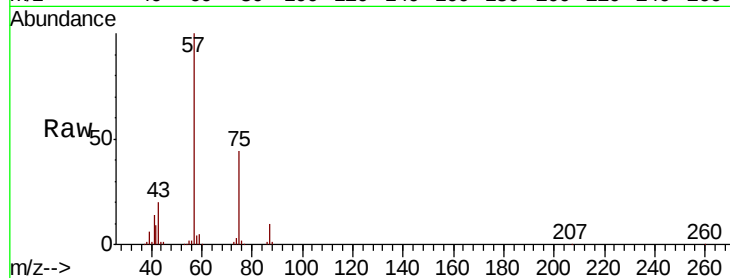
ClientSampleId :

Tot Ion: 76 Resp: 3171

Ion Ratio Lower Upper

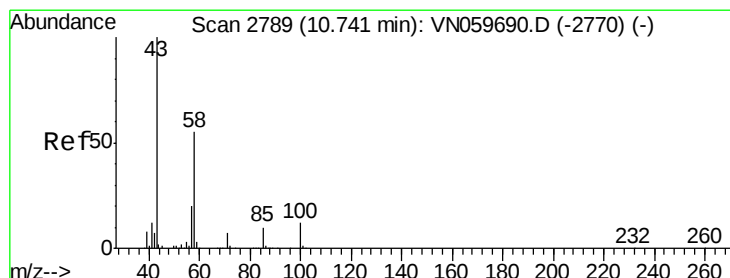
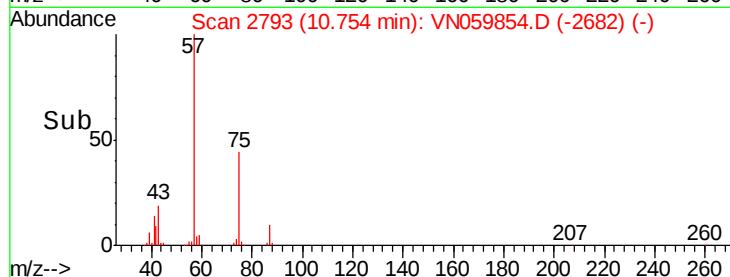
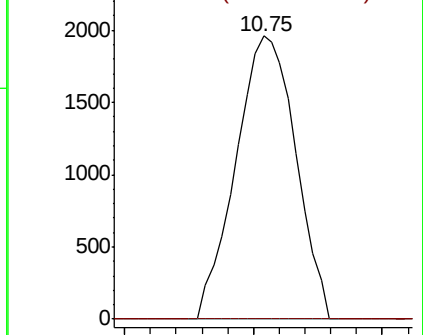
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 22.226 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059854.D

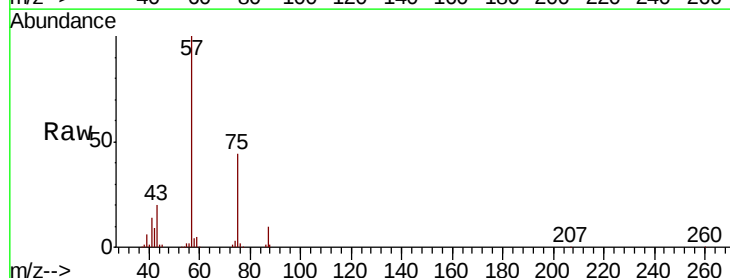
Acq: 24 Jan 2020 18:38

Tgt Ion: 43 Resp: 40629

Ion Ratio Lower Upper

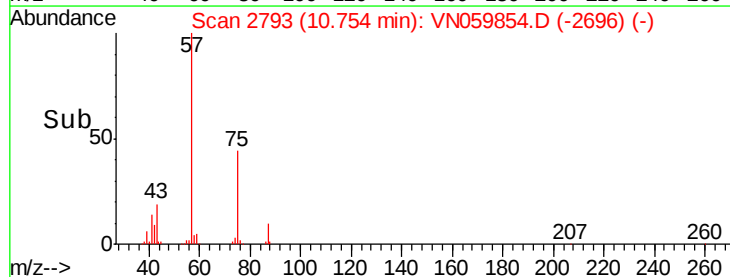
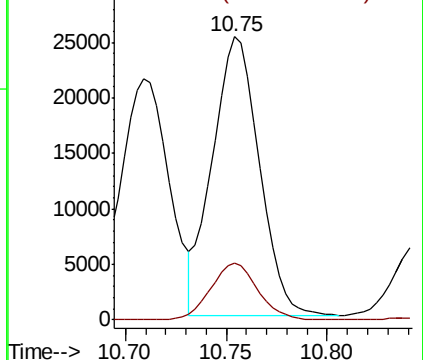
43 100

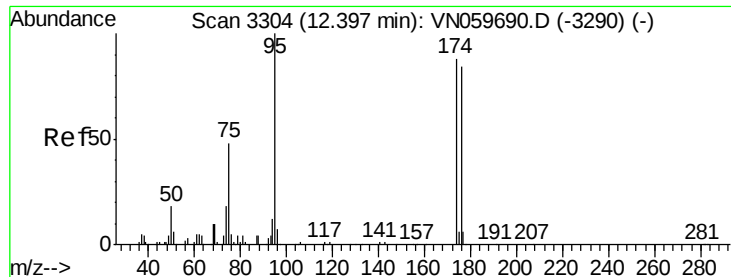
58 20.5 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 46.471 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059854.D

Acq: 24 Jan 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

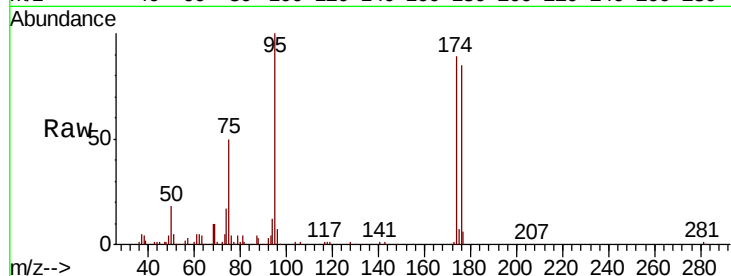
Tot Ion: 95 Resp: 118266

Ion Ratio Lower Upper

95 100

174 88.9 0.0 151.4

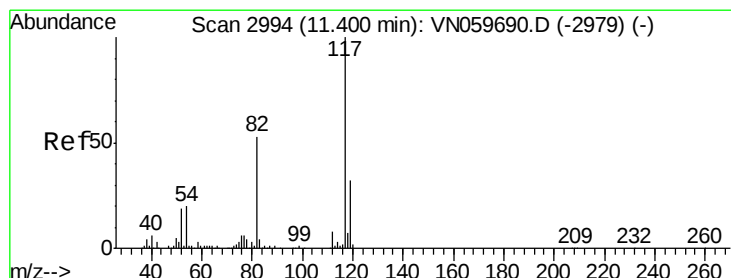
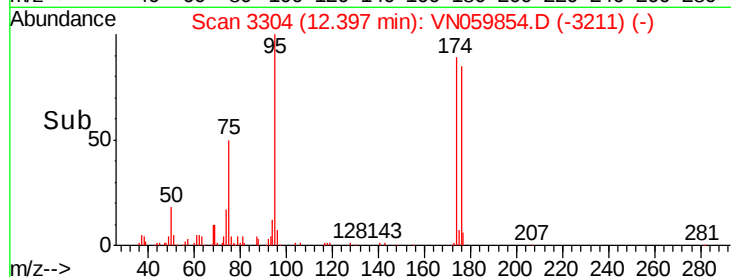
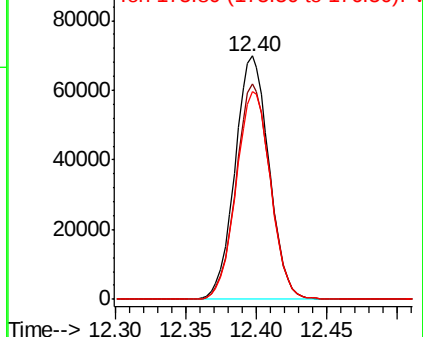
176 86.6 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059690.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN059690.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN059690.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059854.D

Acq: 24 Jan 2020 18:38

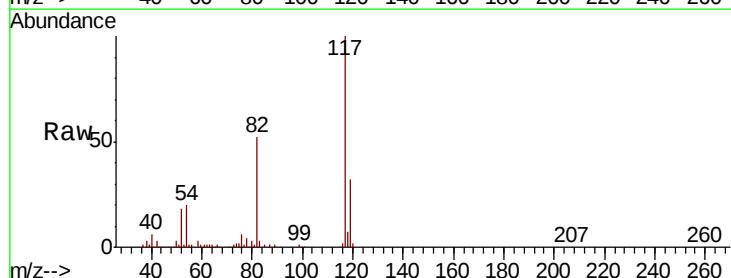
Tgt Ion: 117 Resp: 270804

Ion Ratio Lower Upper

117 100

82 52.1 45.9 68.9

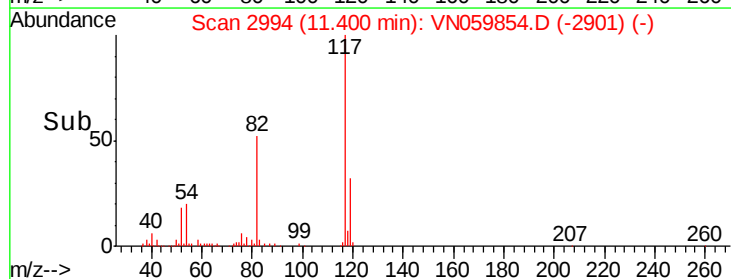
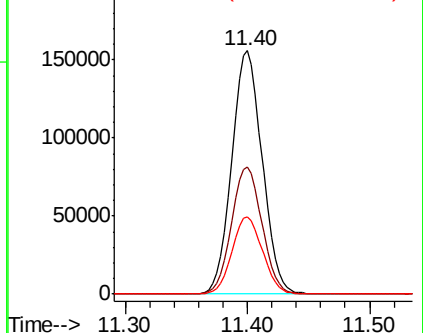
119 31.7 25.5 38.3

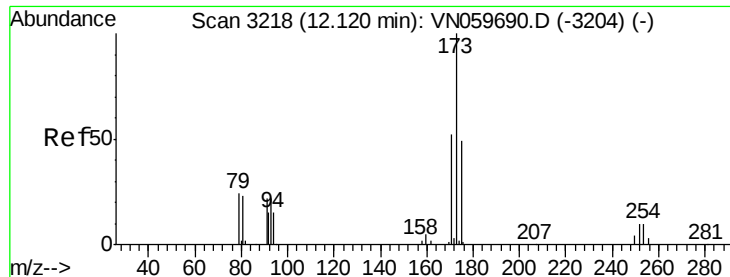


Abundance Ion 116.90 (116.60 to 117.60): VN059690.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN059690.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN059690.D (-2979) (-)





#71

Bromoform

Concen: 0.343 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN059854.D

Acq: 24 Jan 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

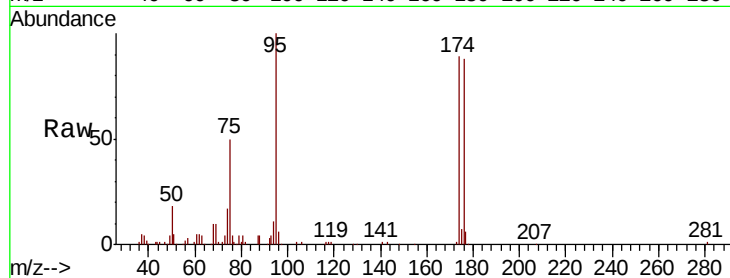
Tot Ion:173 Resp: 565

Ion Ratio Lower Upper

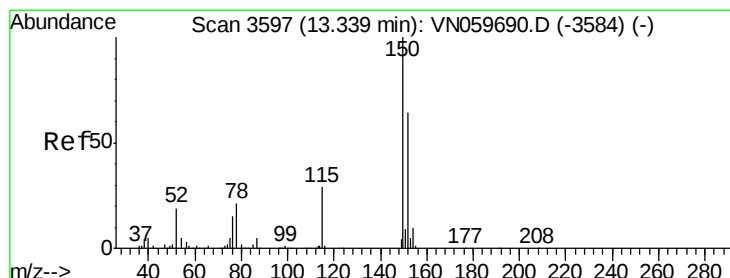
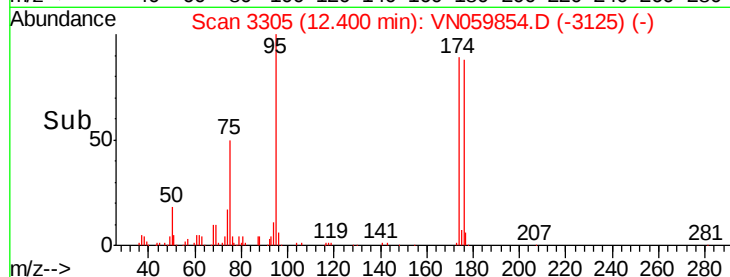
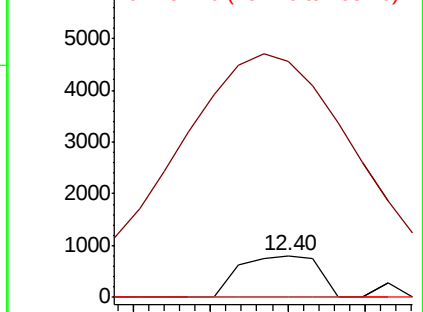
173 100

175 1186.4 23.8 71.4#

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: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059854.D

Acq: 24 Jan 2020 18:38

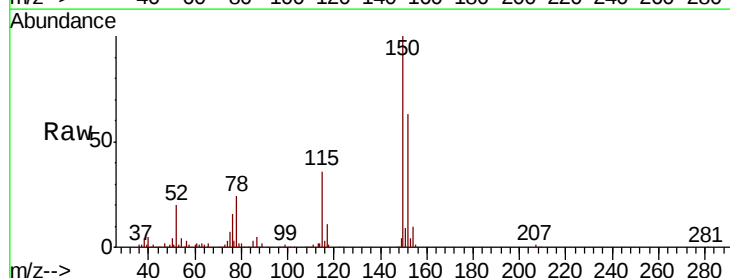
Tgt Ion:152 Resp: 109837

Ion Ratio Lower Upper

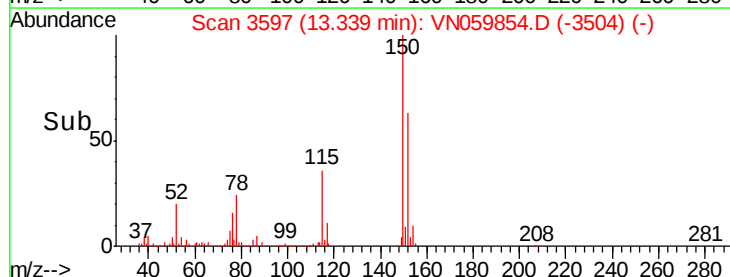
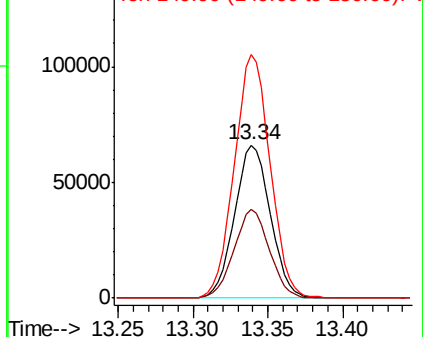
152 100

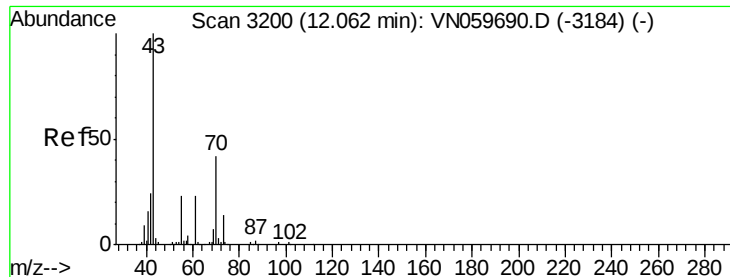
115 57.3 30.3 90.9

150 159.5 0.0 345.2



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





#74

N-amvl acetate

Concen: 0.226 ug/l

RT: 12.05 min Scan# 3196

Delta R.T. -0.01 min

Lab File: VN059854.D

Acq: 24 Jan 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 705

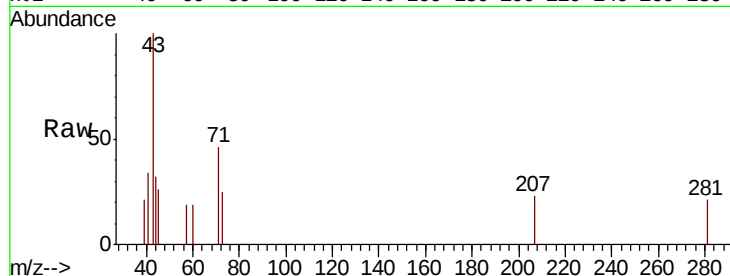
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

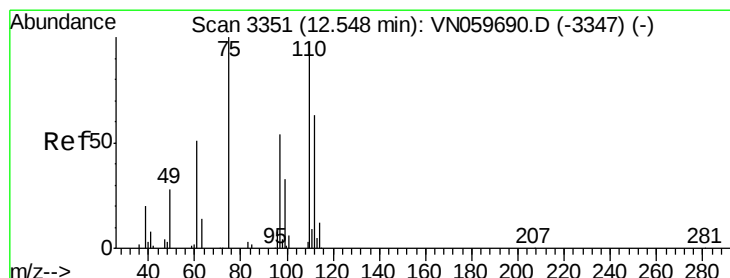
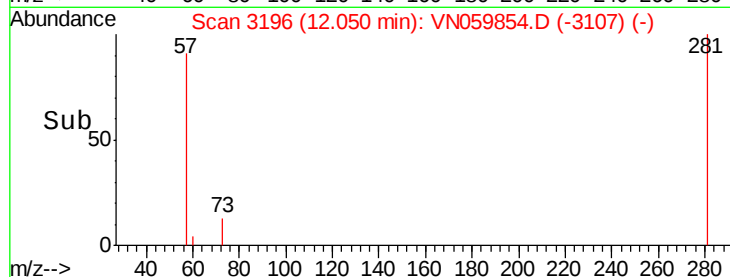
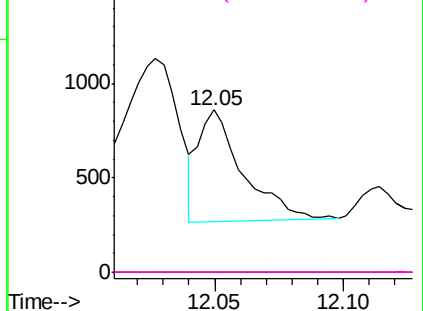


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 32.200 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059854.D

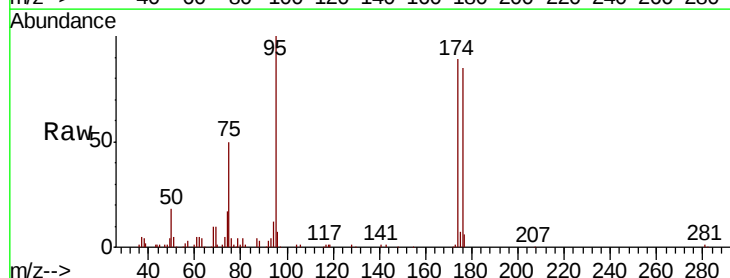
Acq: 24 Jan 2020 18:38

Tgt Ion: 75 Resp: 59520

Ion Ratio Lower Upper

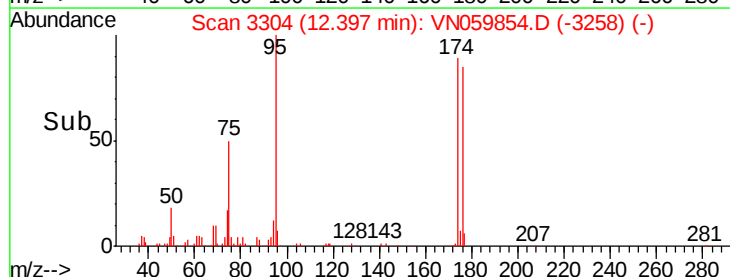
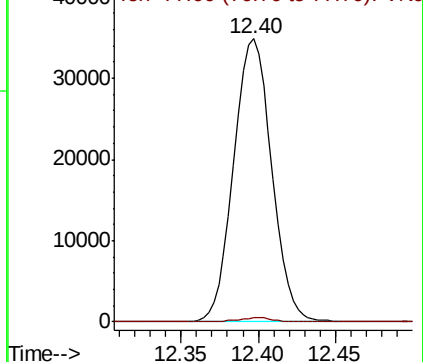
75 100

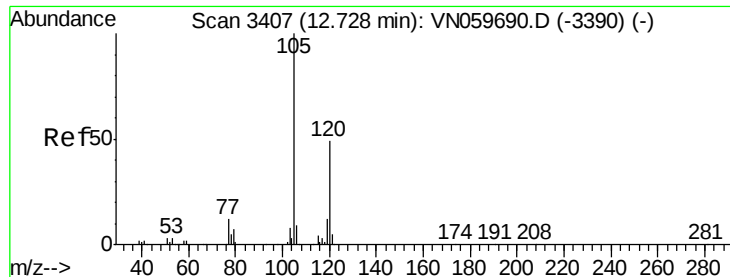
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.329 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN059854.D

Acq: 24 Jan 2020 18:38

Instrument :

MSVOA_N

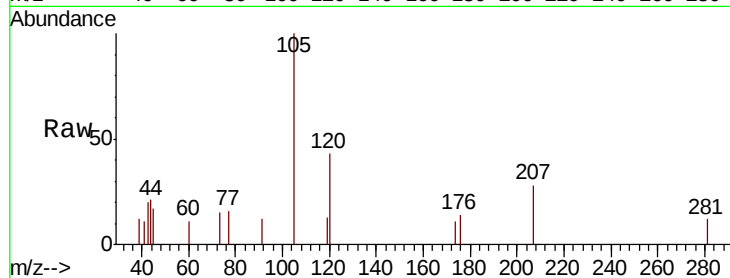
ClientSampleId :

Tot Ion:105 Resp: 2231

Ion Ratio Lower Upper

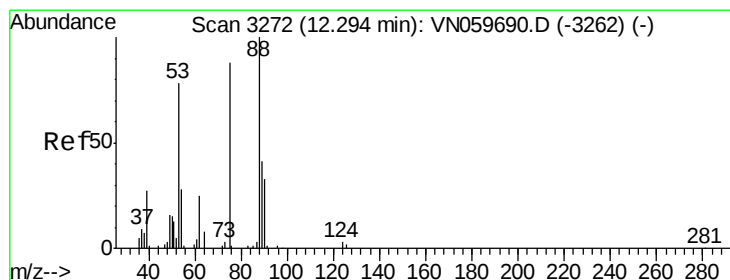
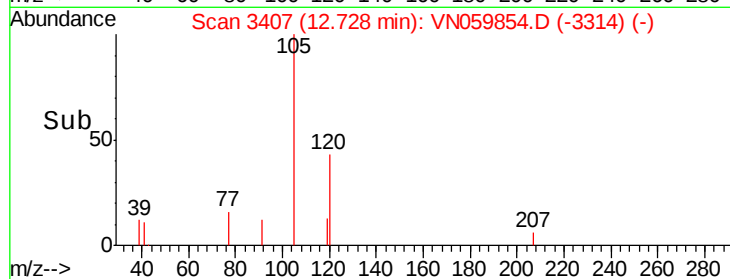
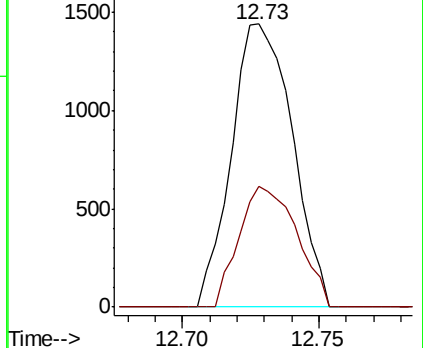
105 100

120 40.6 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 69.150 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059854.D

Acq: 24 Jan 2020 18:38

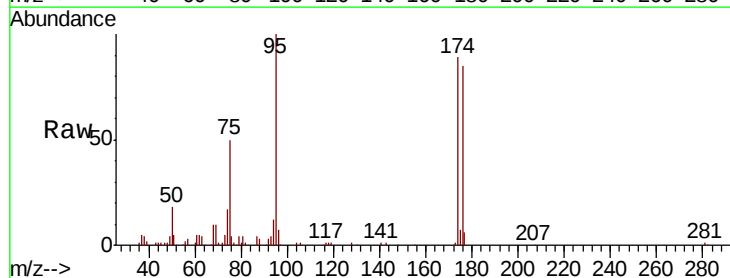
Tgt Ion: 75 Resp: 59520

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

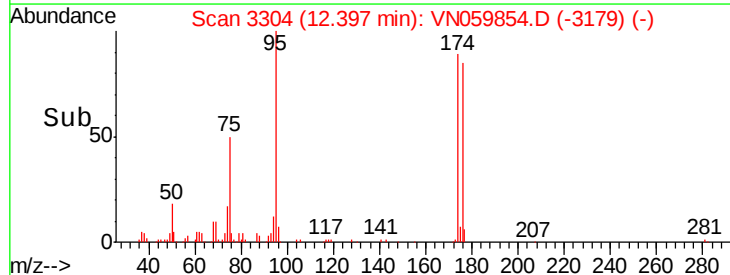
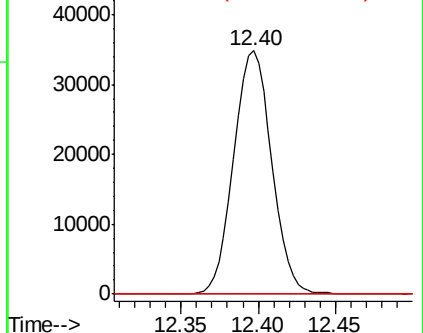
89 0.0 35.4 53.2#

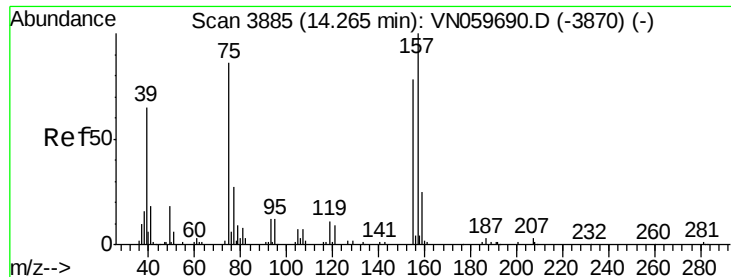


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.28 min Scan# 3890

Delta R.T. 0.02 min

Lab File: VN059854.D

Acq: 24 Jan 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

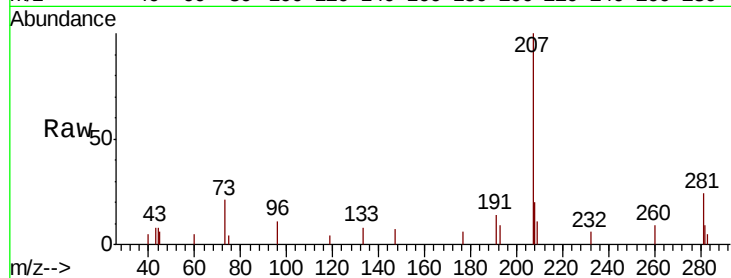
Tot Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN059854.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN059854.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN059854.D (-3791) (-)

