

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012920\
 Data File : VN059921.D
 Acq On : 29 Jan 2020 18:41
 Operator : JC/MD
 Sample : PB126412ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 30 00:04:50 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	196429	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	295396	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	262794	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	103877	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	104594	47.95	ug/l	0.00
Spiked Amount						
			Recovery	=	95.90%	
35) Dibromofluoromethane	7.57	113	89967	51.07	ug/l	0.00
Spiked Amount						
			Recovery	=	102.14%	
50) Toluene-d8	10.08	98	354685	51.97	ug/l	0.00
Spiked Amount						
			Recovery	=	103.94%	
62) 4-Bromofluorobenzene	12.40	95	112482	45.72	ug/l	0.00
Spiked Amount						
			Recovery	=	91.44%	

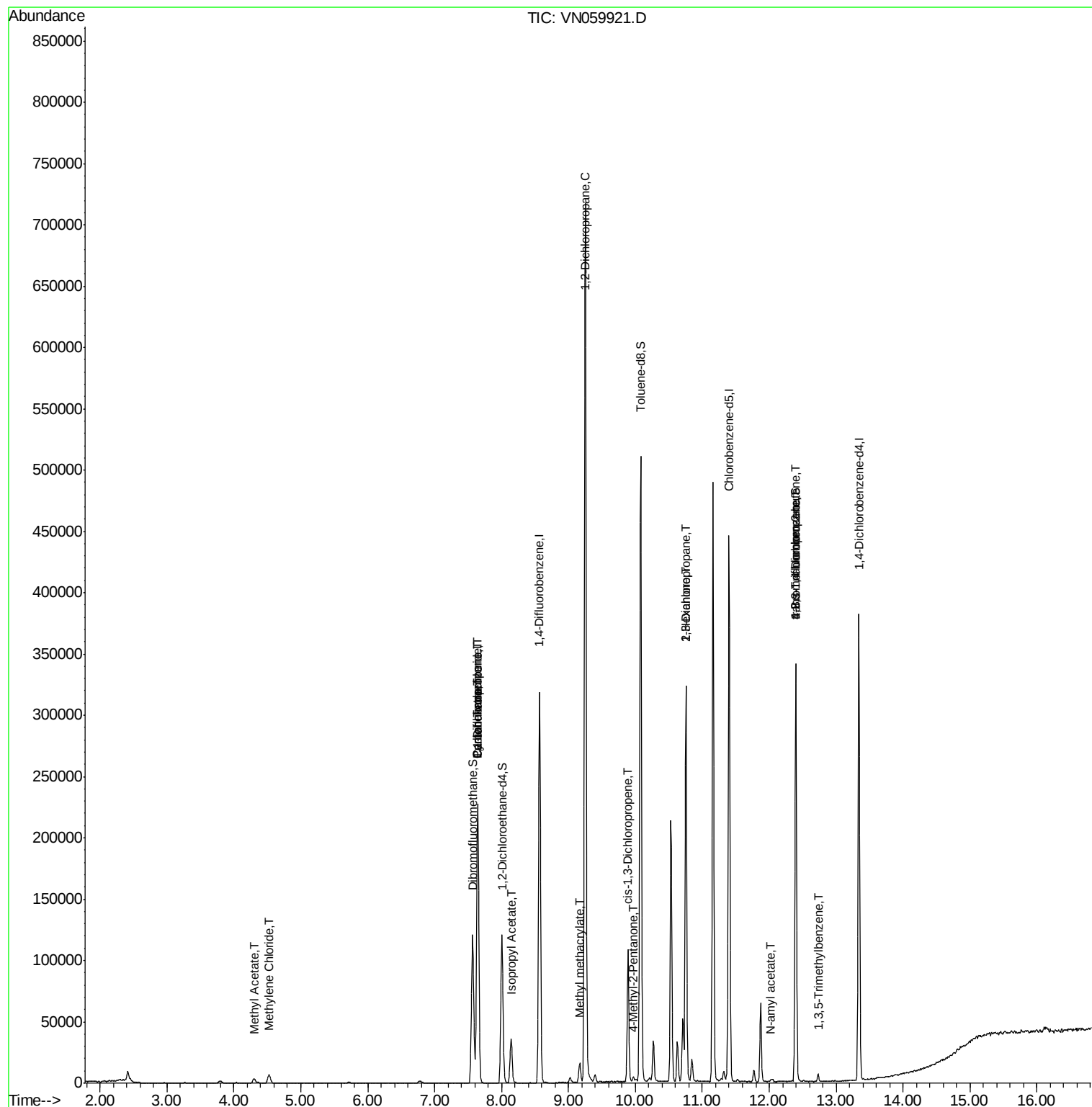
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	3405	Below Cal		98
18) Methyl Acetate	4.30	43	7012	2.752	ug/l	96
20) Methylene Chloride	4.53	84	5741	1.658	ug/l #	80
31) Cyclohexane	7.64	56	3728	1.155	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13432	5.222	ug/l #	51
38) Carbon Tetrachloride	7.64	117	18027	6.442	ug/l #	16
43) Isopropyl Acetate	8.14	43	42843	10.324	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	806	0.425	ug/l #	44
48) Methyl methacrylate	9.16	41	2472	1.332	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2632	1.097	ug/l	96
54) cis-1,3-Dichloropropene	9.89	75	20528	6.475	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3519	1.155	ug/l #	42
59) 2-Hexanone	10.75	43	44677	25.280	ug/l #	55
74) N-amyl acetate	12.02	43	1163	0.393	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	57563	32.928	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3712	0.579	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	57563	70.713	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.22	75	96	Below Cal	#	6

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

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Quant Time: Jan 30 00:04:50 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059921.D

Acq: 29 Jan 2020 18:41

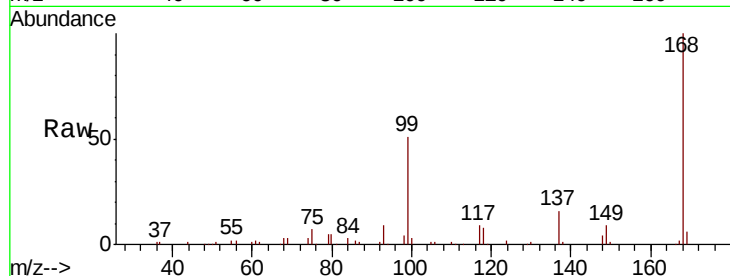
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 196429

Ion Ratio Lower Upper

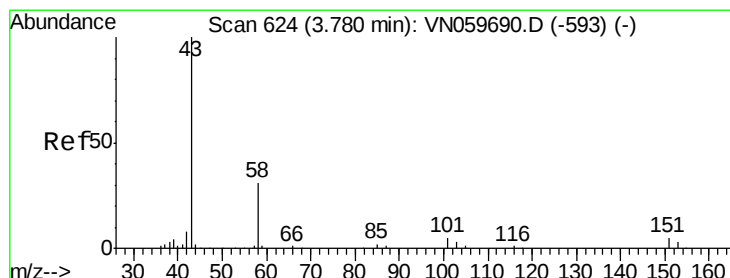
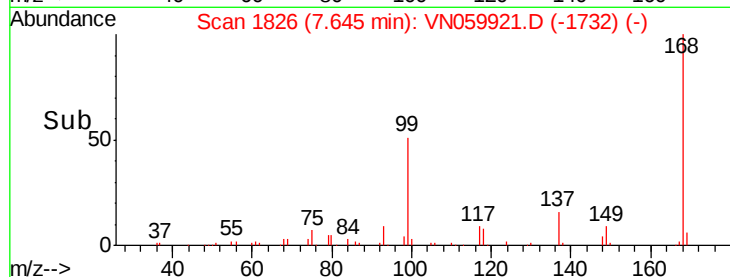
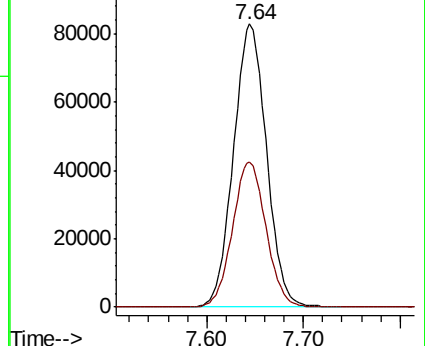
168 100

99 51.4 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059921.D

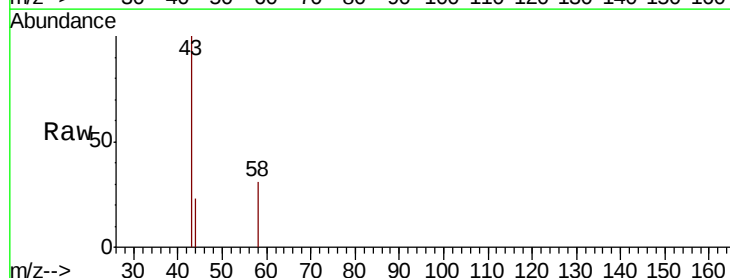
Acq: 29 Jan 2020 18:41

Tgt Ion: 43 Resp: 3405

Ion Ratio Lower Upper

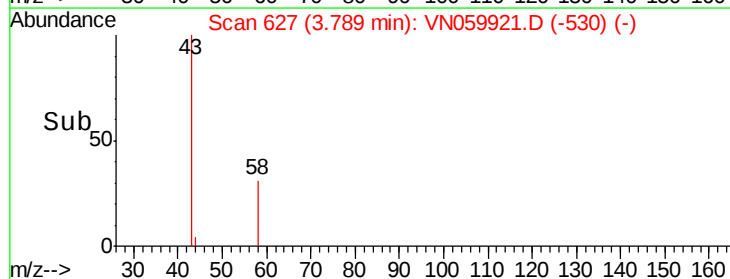
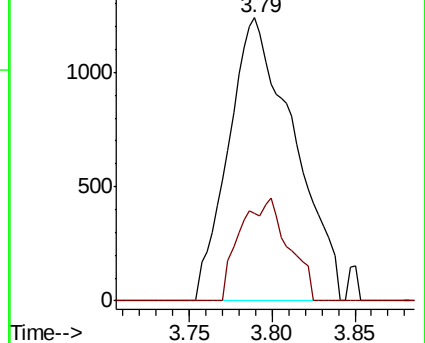
43 100

58 30.8 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

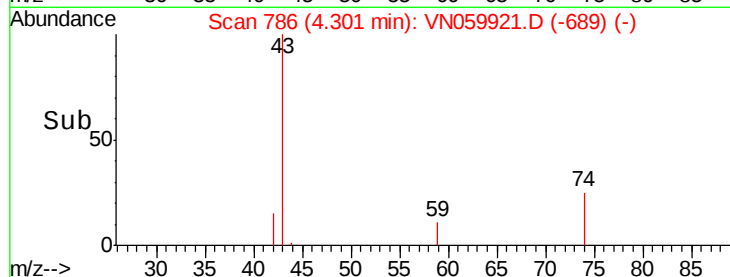
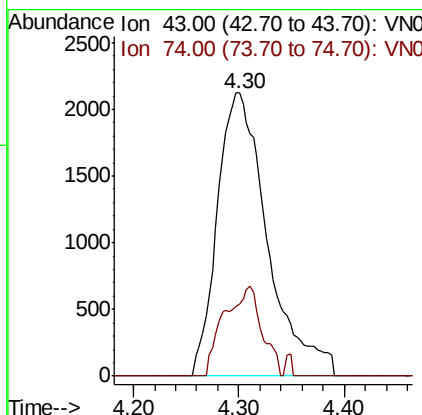
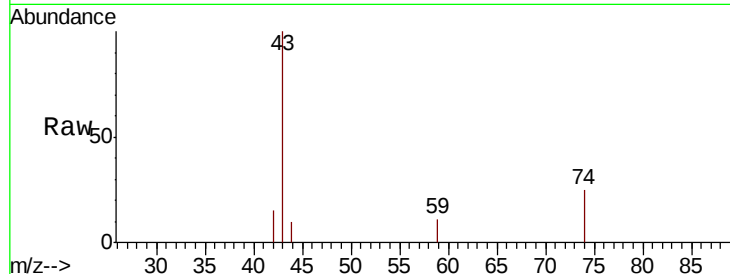




#18
Methyl Acetate
Concen: 2.752 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN059921.D
Acq: 29 Jan 2020 18:41

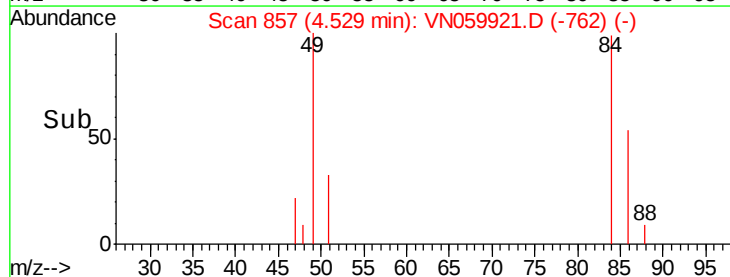
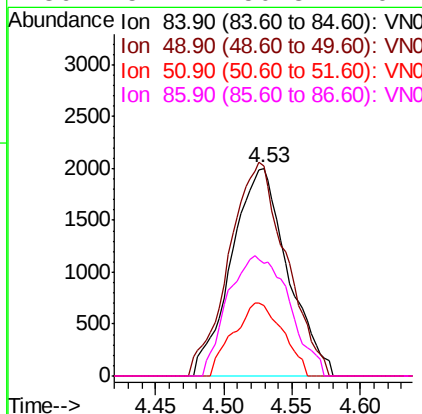
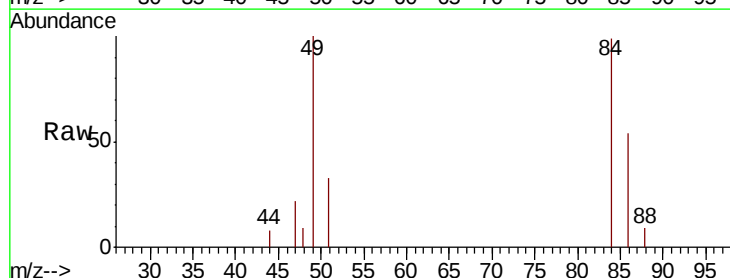
Instrument :
MSVOA_N
ClientSampled :

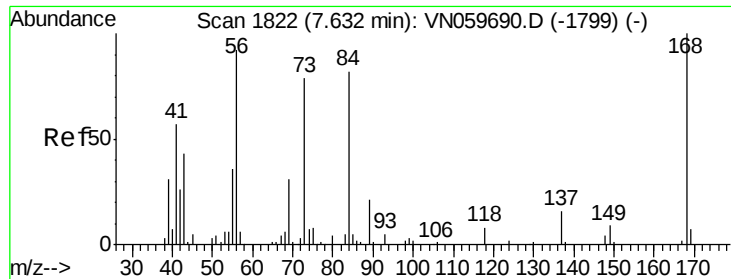
Tot Ion: 43 Resp: 7012
Ion Ratio Lower Upper
43 100
74 23.8 17.5 26.3



#20
Methylene Chloride
Concen: 1.658 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN059921.D
Acq: 29 Jan 2020 18:41

Tgt Ion: 84 Resp: 5741
Ion Ratio Lower Upper
84 100
49 100.8 106.6 160.0#
51 33.6 31.9 47.9
86 54.2 50.8 76.2

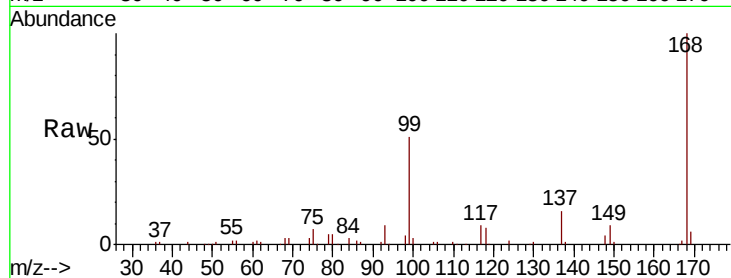




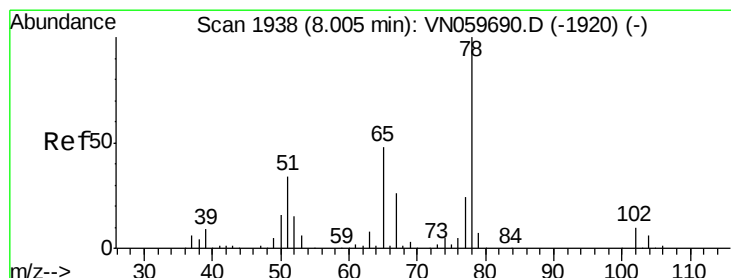
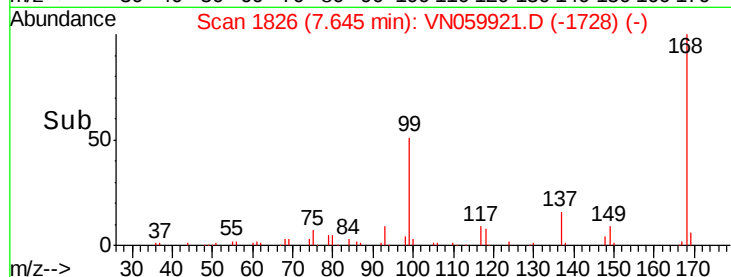
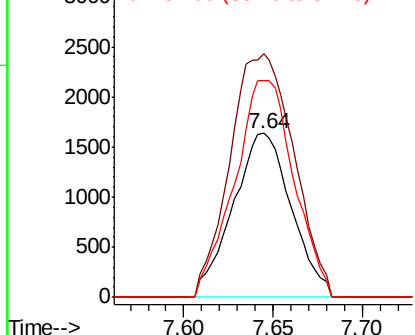
#31
Cyclohexane
Concen: 1.155 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059921.D
Acq: 29 Jan 2020 18:41

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3728
Ion Ratio Lower Upper
56 100
69 148.7 26.5 39.7#
84 132.7 65.3 97.9#

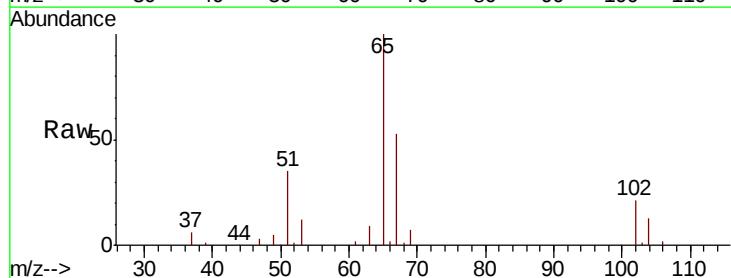


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

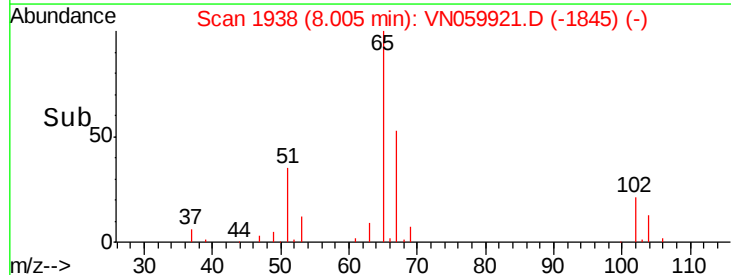
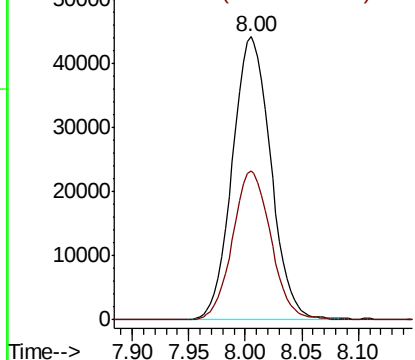


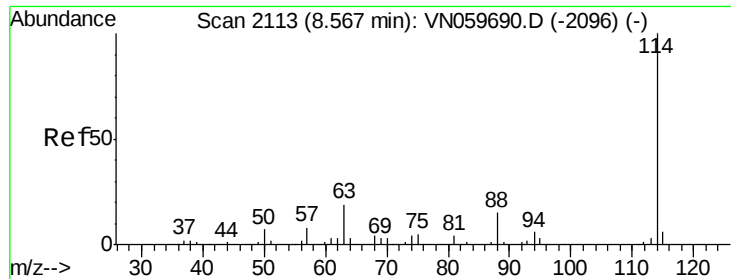
#33
1,2-Dichloroethane-d4
Concen: 47.948 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN059921.D
Acq: 29 Jan 2020 18:41

Tgt Ion: 65 Resp: 104594
Ion Ratio Lower Upper
65 100
67 52.4 0.0 103.0



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

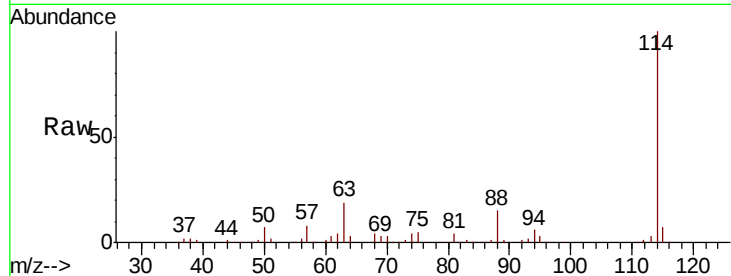




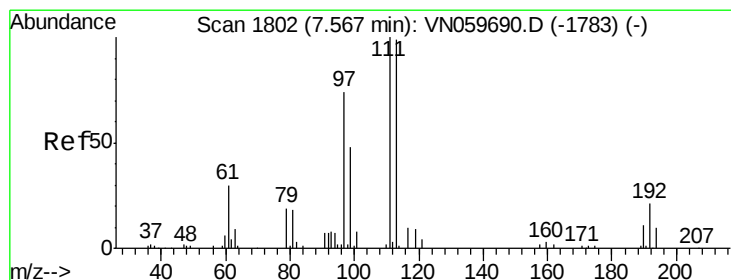
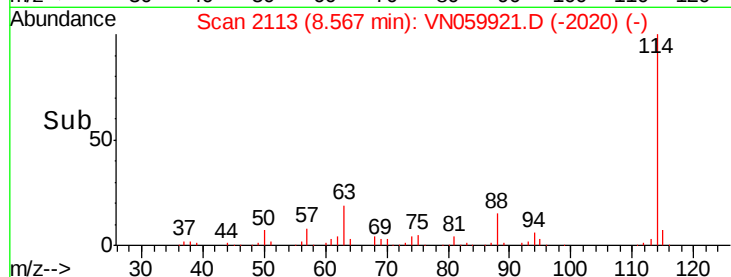
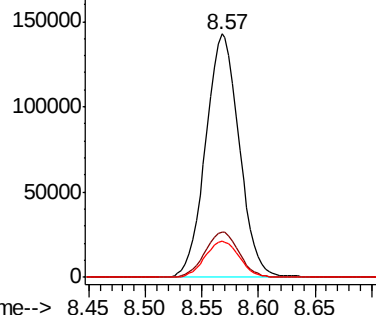
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059921.D
 Acq: 29 Jan 2020 18:41

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	43.6
88	15.0	0.0	31.4

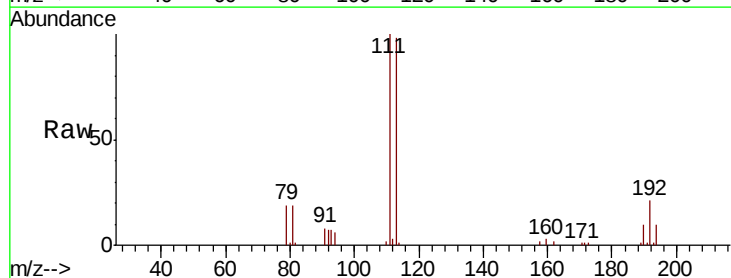


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

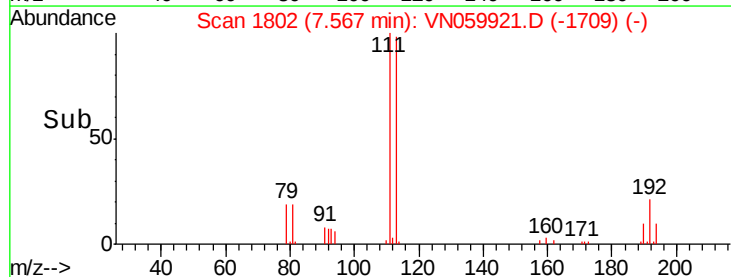
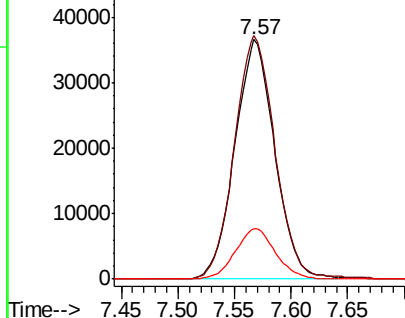


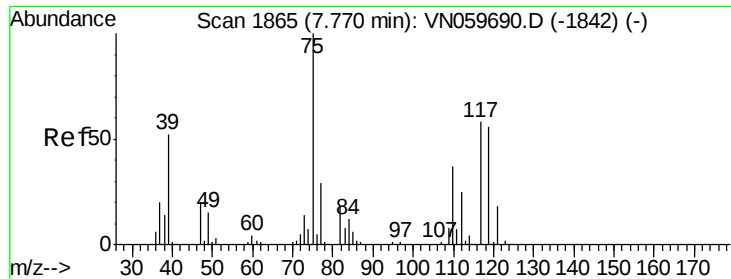
#35
 Dibromofluoromethane
 Concen: 51.072 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059921.D
 Acq: 29 Jan 2020 18:41

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.4	83.5	125.3
192	20.9	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

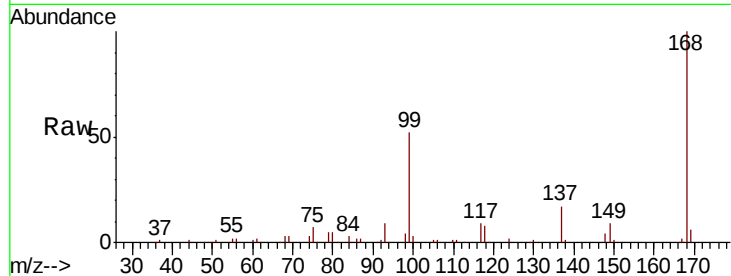




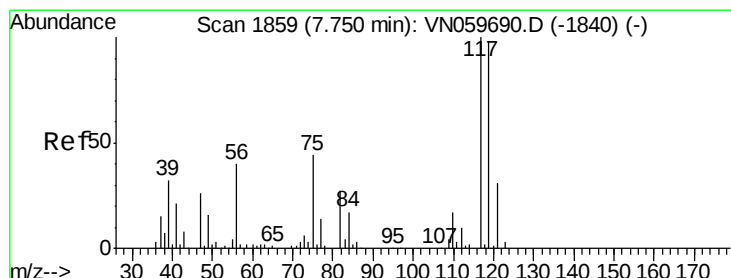
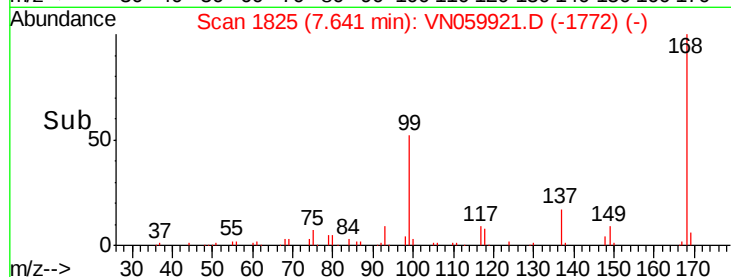
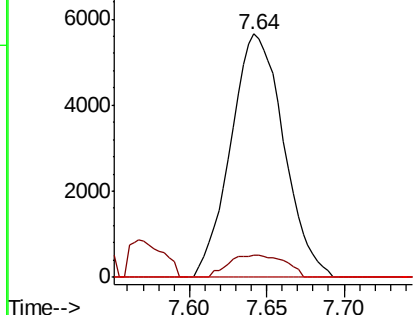
#36
 1,1-Dichloropropene
 Concen: 5.222 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059921.D
 Acq: 29 Jan 2020 18:41

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	16.6	49.7#
77	0.0	25.1	37.7#

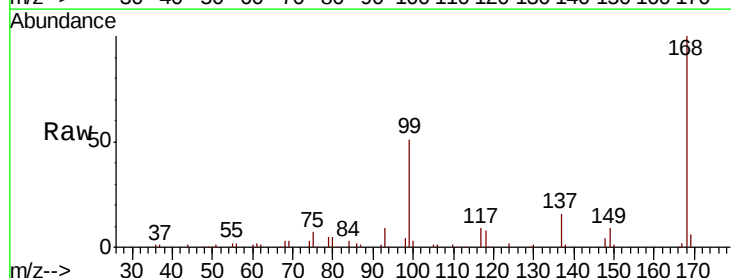


Abundance Ion 74.90 (74.60 to 75.60): VN059921.D (-1772) (-)
 Ion 109.90 (109.60 to 110.60): VN059921.D (-1772) (-)
 Ion 76.90 (76.60 to 77.60): VN059921.D (-1772) (-)

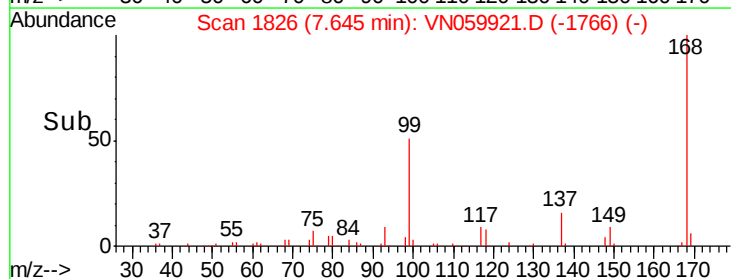
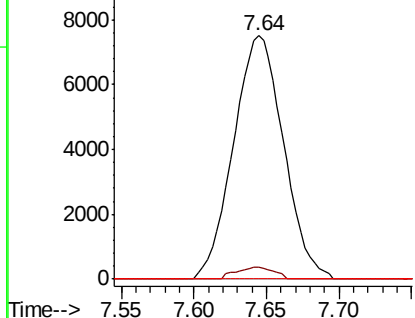


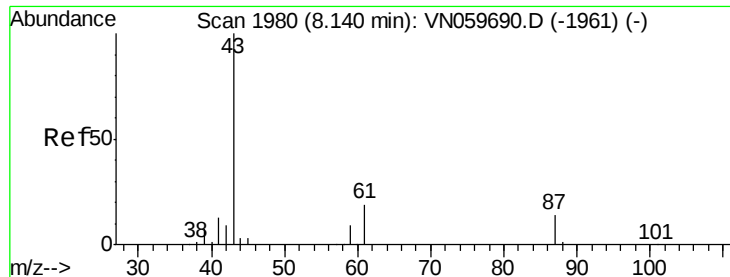
#38
 Carbon Tetrachloride
 Concen: 6.442 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059921.D
 Acq: 29 Jan 2020 18:41

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	76.5	114.7#
121	0.0	25.1	37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN059921.D (-1766) (-)
 Ion 118.80 (118.50 to 119.50): VN059921.D (-1766) (-)
 Ion 120.80 (120.50 to 121.50): VN059921.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 10.324 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059921.D

Acq: 29 Jan 2020 18:41

Instrument :

MSVOA_N

ClientSampled :

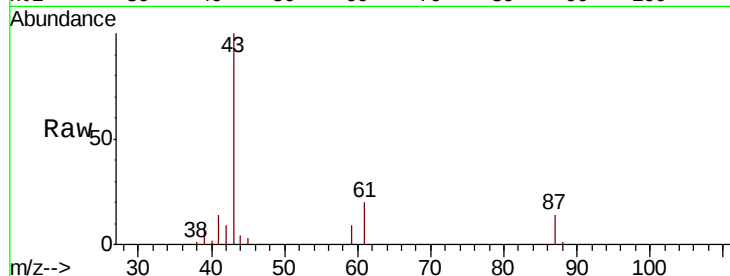
Tot Ion: 43 Resp: 42843

Ion Ratio Lower Upper

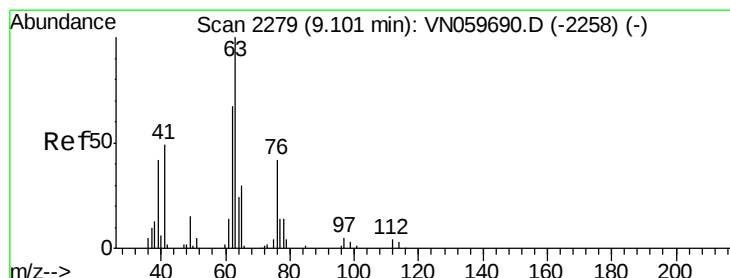
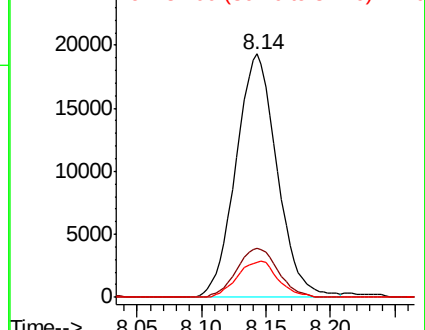
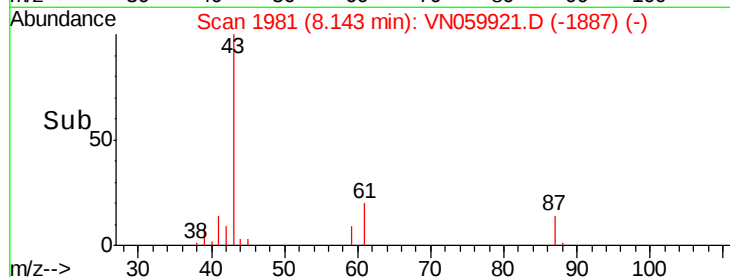
43 100

61 20.2 20.2 30.2

87 14.7 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059921.D (-1987) (-)



#45

1,2-Dichloropropane

Concen: 0.425 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN059921.D

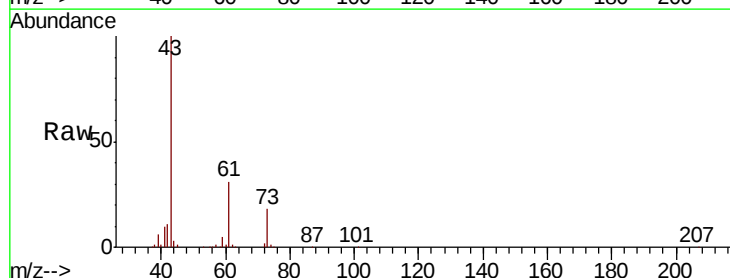
Acq: 29 Jan 2020 18:41

Tgt Ion: 63 Resp: 806

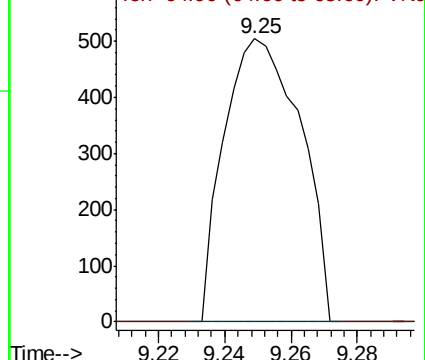
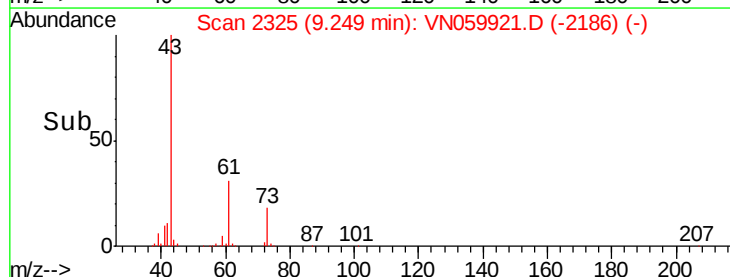
Ion Ratio Lower Upper

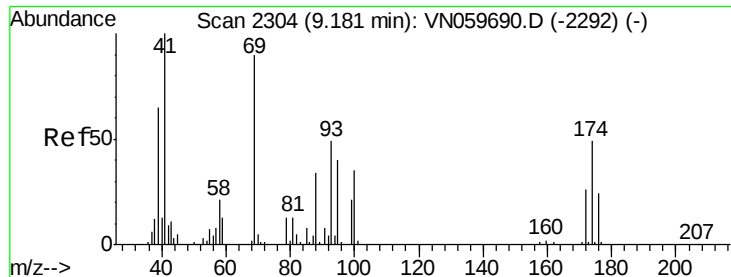
63 100

65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059921.D (-2186) (-)

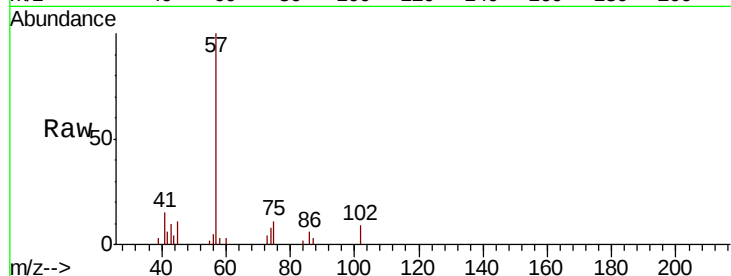




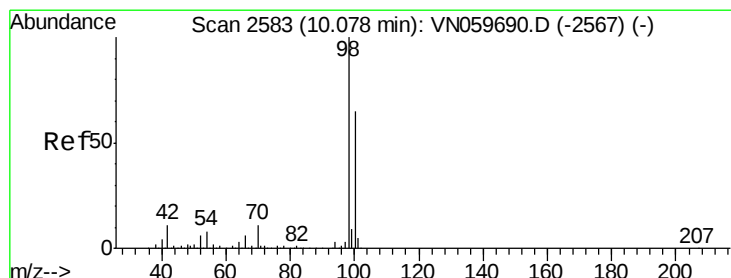
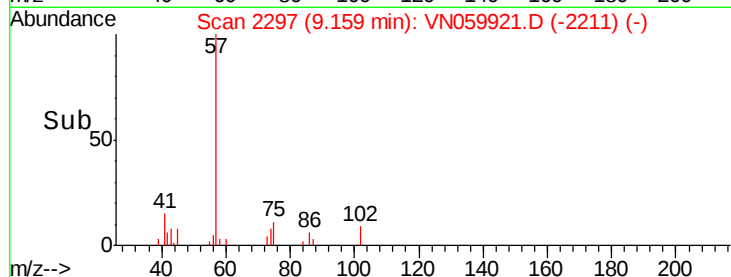
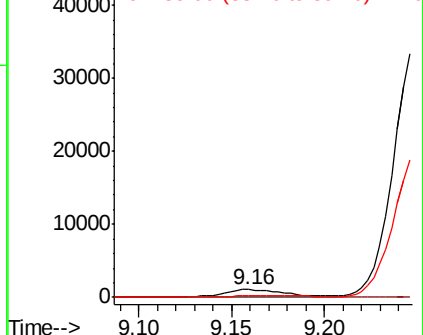
#48
Methvl methacrylate
Concen: 1.332 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN059921.D
Acq: 29 Jan 2020 18:41

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2472
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

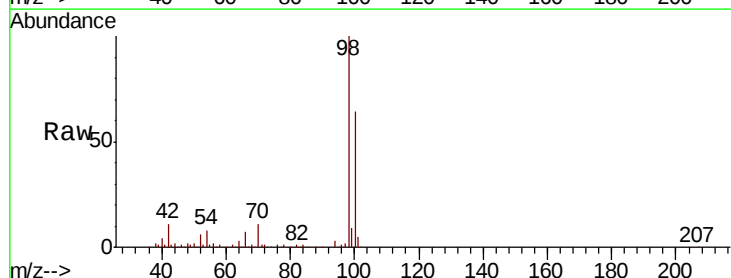


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

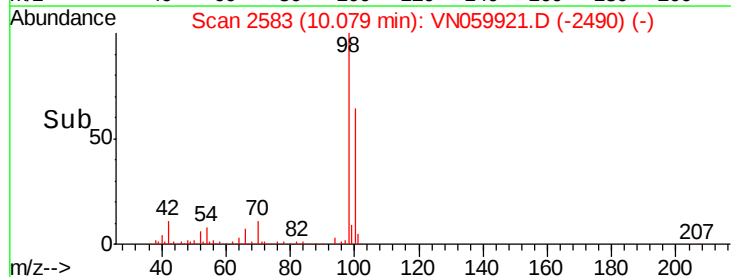
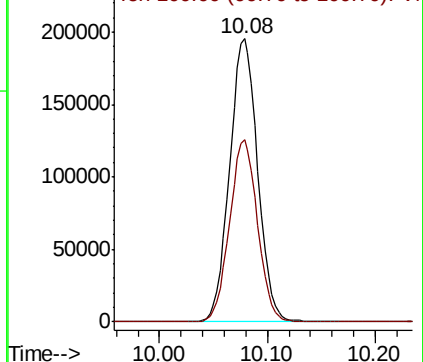


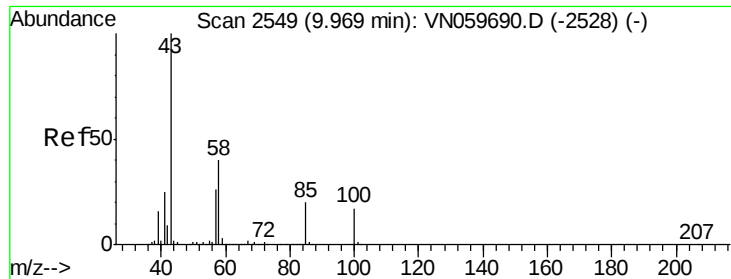
#50
Toluene-d8
Concen: 51.967 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059921.D
Acq: 29 Jan 2020 18:41

Tgt Ion: 98 Resp: 354685
Ion Ratio Lower Upper
98 100
100 64.1 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

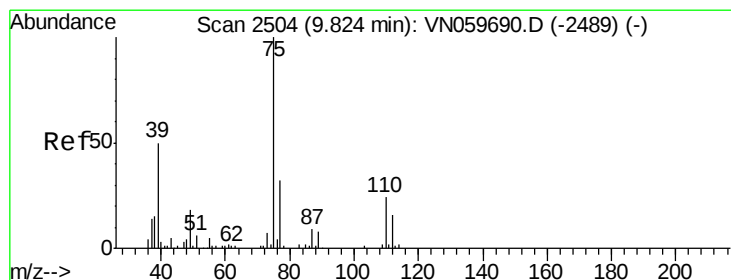
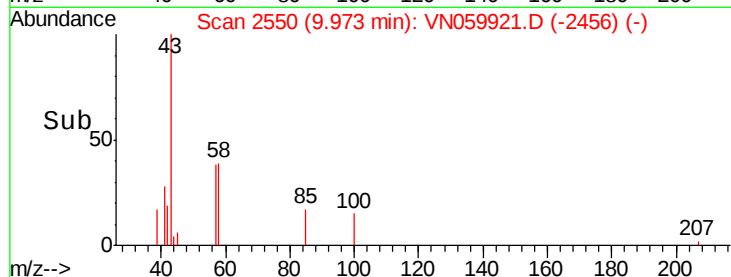
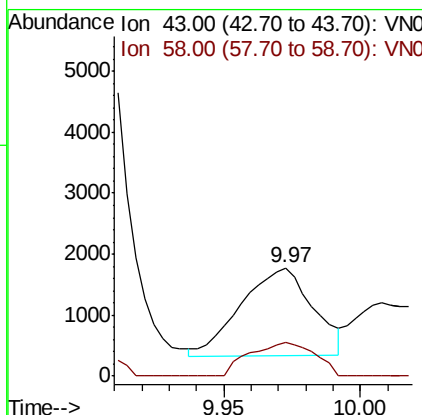
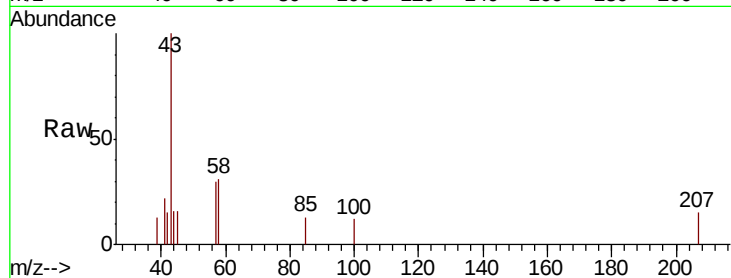




#51
 4-Methyl-2-Pentanone
 Concen: 1.097 ug/l
 RT: 9.97 min Scan# 2550
 Delta R.T. 0.00 min
 Lab File: VN059921.D
 Acq: 29 Jan 2020 18:41

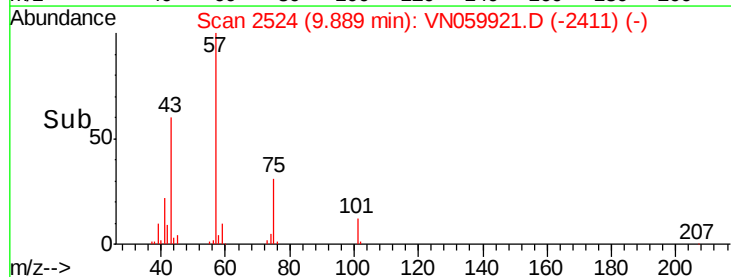
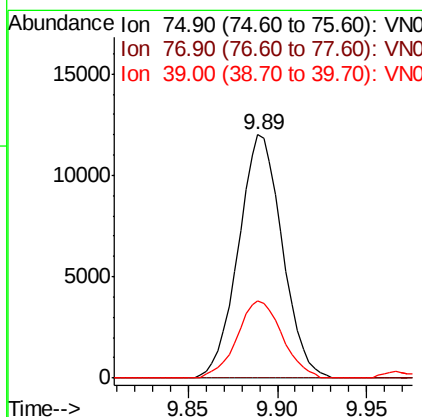
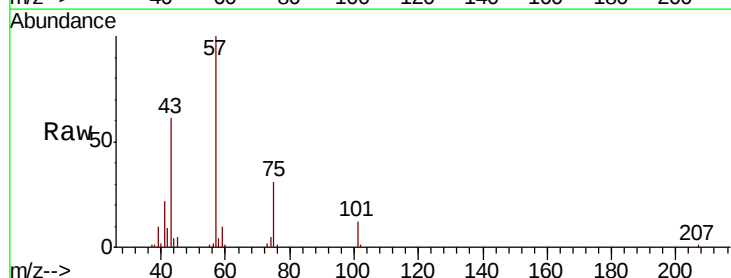
Instrument :
 MSVOA_N
 ClientSampled :

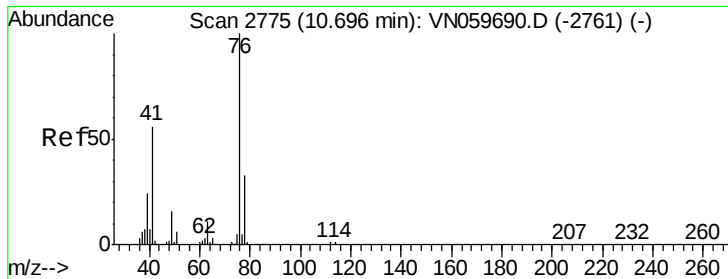
Tot Ion: 43 Resp: 2632
 Ion Ratio Lower Upper
 43 100
 58 34.9 29.8 44.8



#54
 cis-1,3-Dichloropropene
 Concen: 6.475 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN059921.D
 Acq: 29 Jan 2020 18:41

Tgt Ion: 75 Resp: 20528
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 31.5 46.1 69.1#

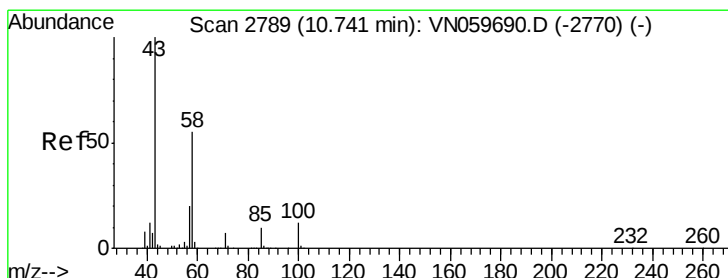
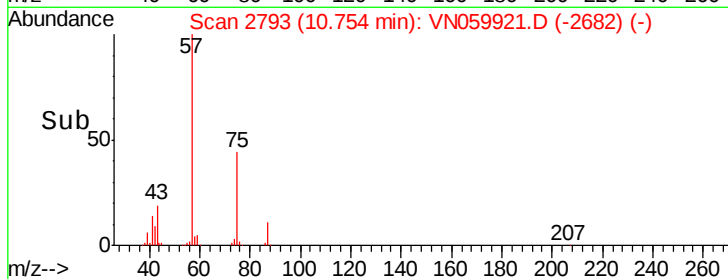
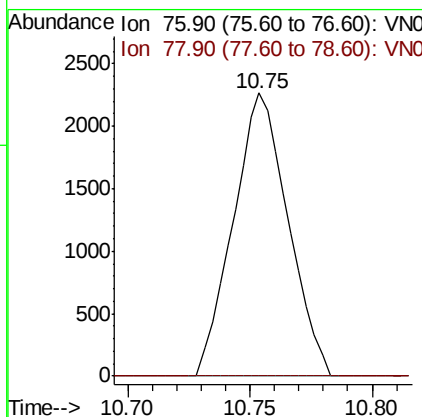
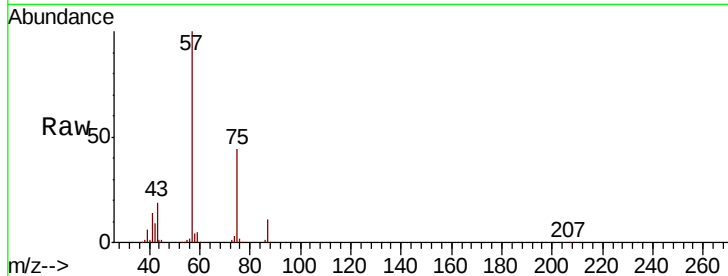




#57
 1,3-Dichloropropane
 Concen: 1.155 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059921.D
 Acq: 29 Jan 2020 18:41

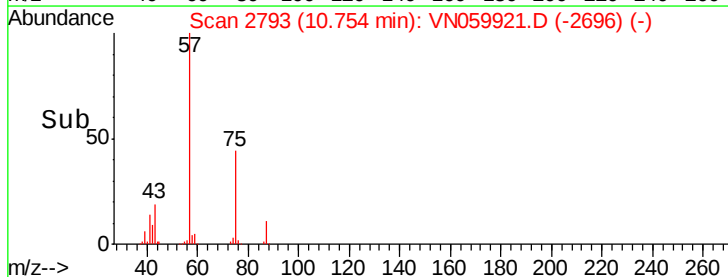
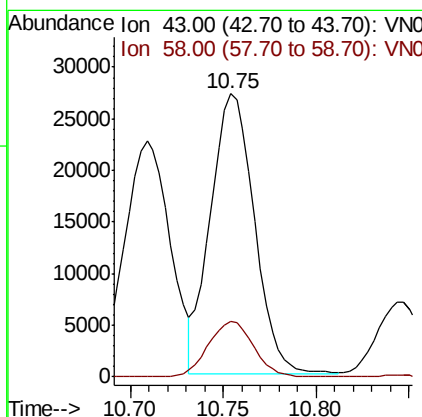
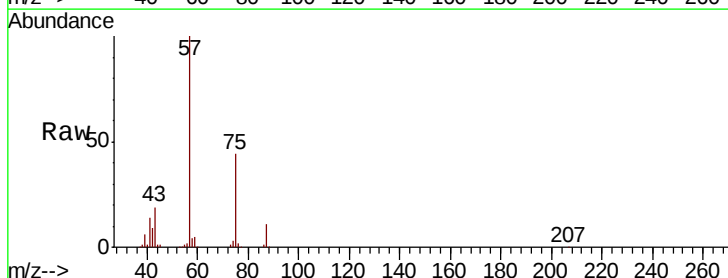
Instrument :
 MSVOA_N
 ClientSampled :

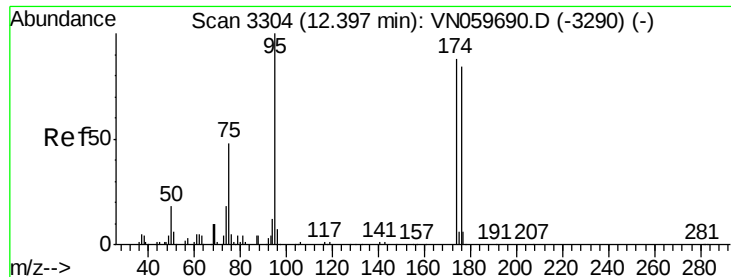
Tot Ion: 76 Resp: 3519
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 25.280 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059921.D
 Acq: 29 Jan 2020 18:41

Tgt Ion: 43 Resp: 44677
 Ion Ratio Lower Upper
 43 100
 58 20.3 25.8 77.3#

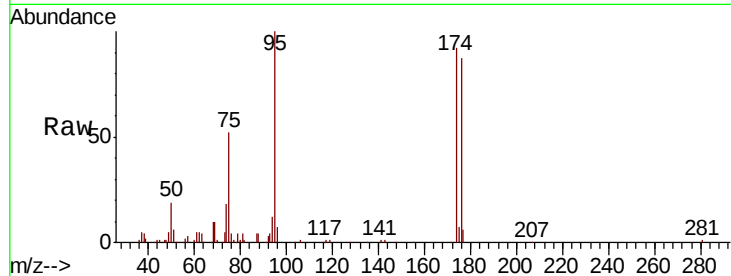




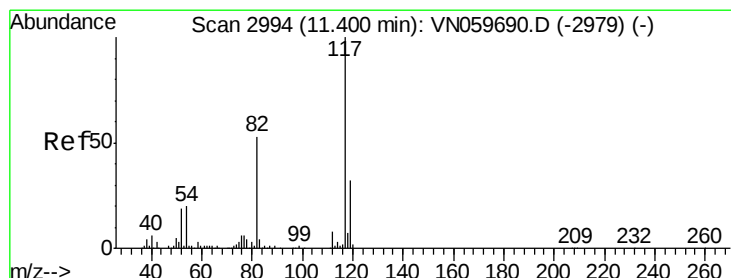
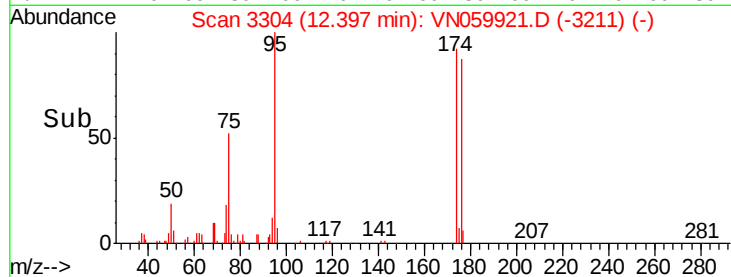
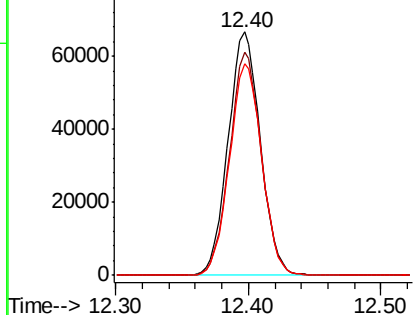
#62
4-Bromofluorobenzene
Concen: 45.715 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059921.D
Acq: 29 Jan 2020 18:41

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 95 Resp: 112482
Ion Ratio Lower Upper
95 100
174 90.0 0.0 151.4
176 86.8 0.0 146.0

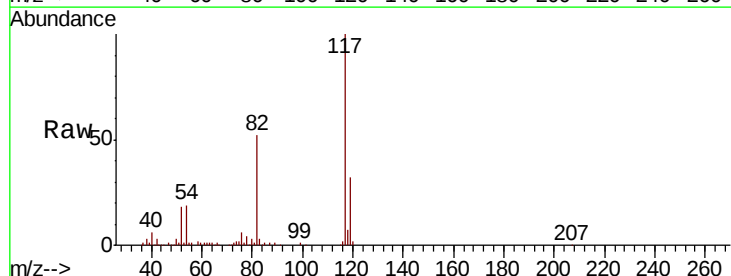


Abundance Ion 94.90 (94.60 to 95.60): VN059921.D (-3290) (-)
Ion 173.80 (173.50 to 174.50): VN059921.D (-3290) (-)
Ion 175.80 (175.50 to 176.50): VN059921.D (-3290) (-)

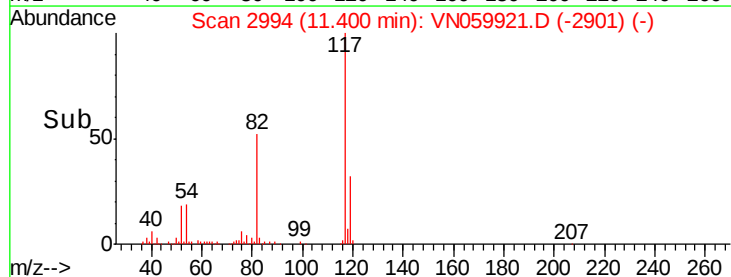
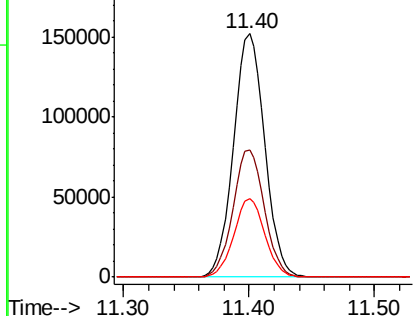


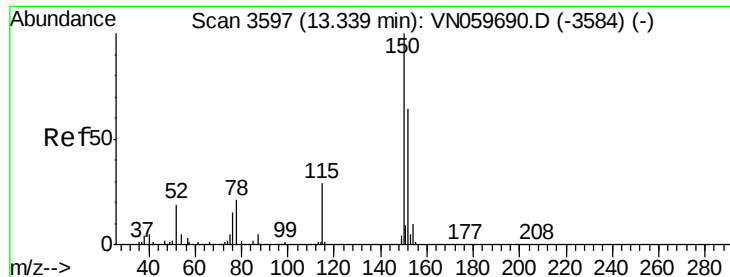
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059921.D
Acq: 29 Jan 2020 18:41

Tgt Ion: 117 Resp: 262794
Ion Ratio Lower Upper
117 100
82 52.3 45.9 68.9
119 32.3 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN059921.D (-2979) (-)
Ion 82.00 (81.70 to 82.70): VN059921.D (-2979) (-)
Ion 118.90 (118.60 to 119.60): VN059921.D (-2979) (-)



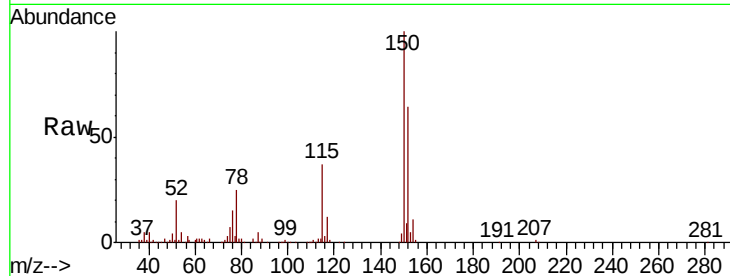


#72

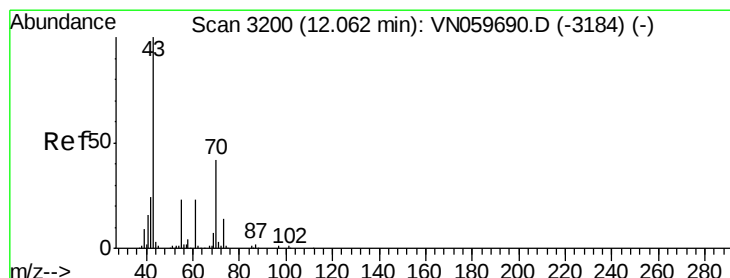
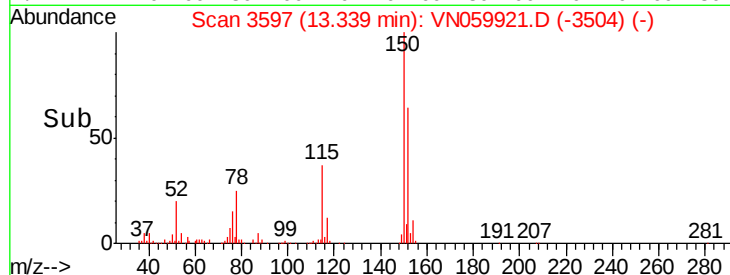
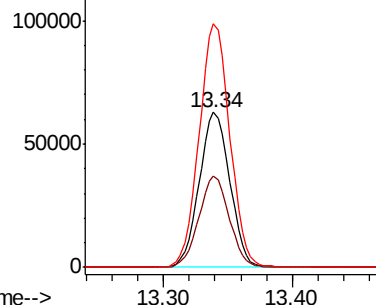
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN059921.D
Acq: 29 Jan 2020 18:41

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 103877
Ion Ratio Lower Upper
152 100
115 58.1 30.3 90.9
150 157.0 0.0 345.2



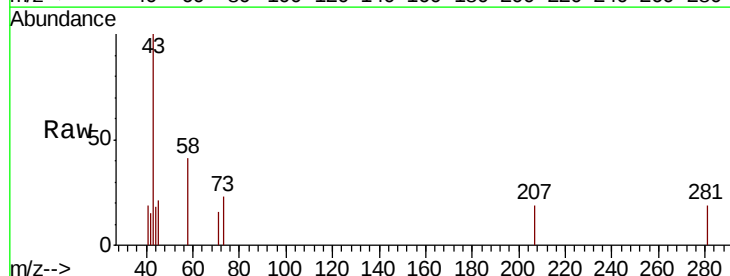
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



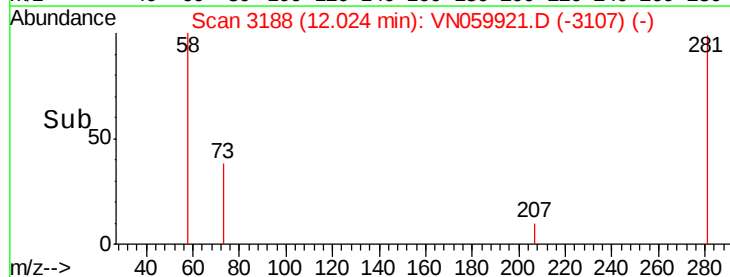
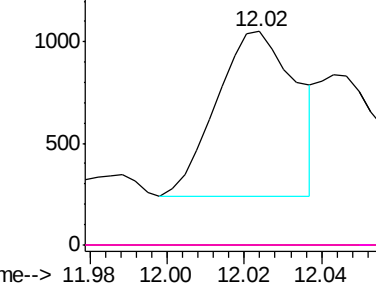
#74

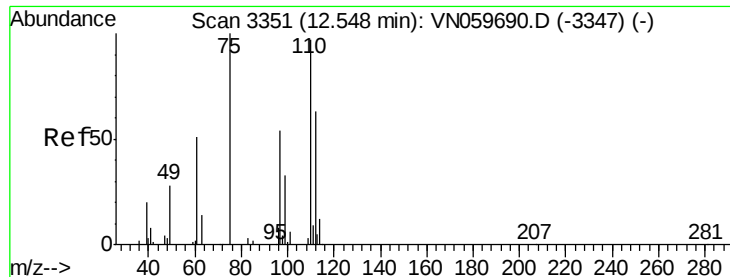
N-ethyl acetate
Concen: 0.393 ug/l
RT: 12.02 min Scan# 3188
Delta R.T. -0.04 min
Lab File: VN059921.D
Acq: 29 Jan 2020 18:41

Tgt Ion: 43 Resp: 1163
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): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 32.928 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059921.D

Acq: 29 Jan 2020 18:41

Instrument :

MSVOA_N

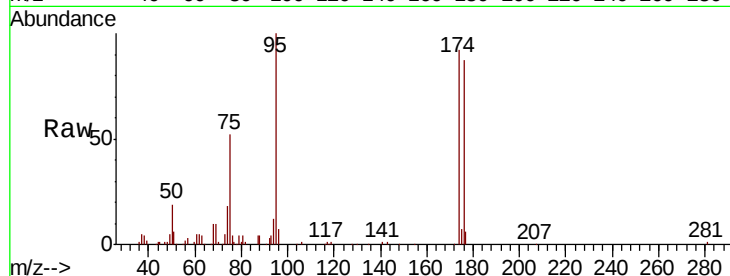
ClientSampleId :

Tot Ion: 75 Resp: 57563

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN059921.D (-3304) (-)

Ion 77.00 (76.70 to 77.70): VN059921.D (-3304) (-)

12.40

30000

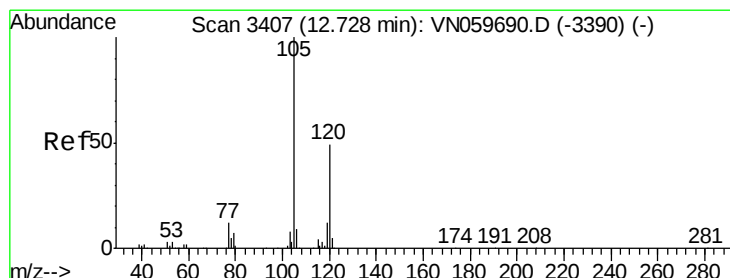
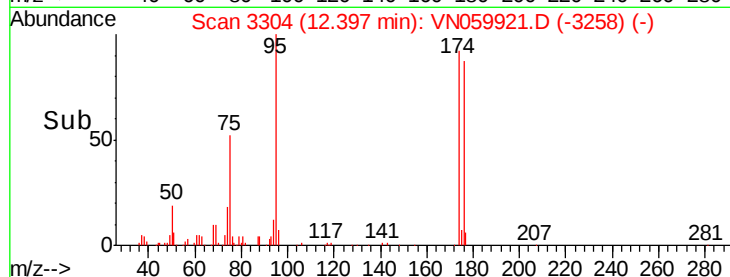
20000

10000

0

12.35 12.40 12.45

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.579 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN059921.D

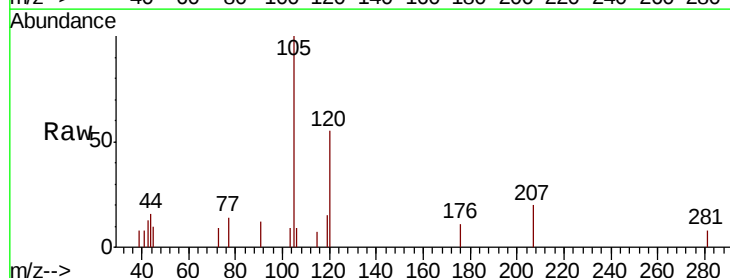
Acq: 29 Jan 2020 18:41

Tgt Ion: 105 Resp: 3712

Ion Ratio Lower Upper

105 100

120 52.7 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN059921.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN059921.D (-3314) (-)

12.73

2500

2000

1500

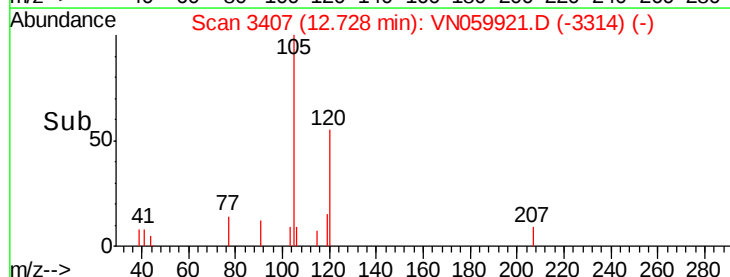
1000

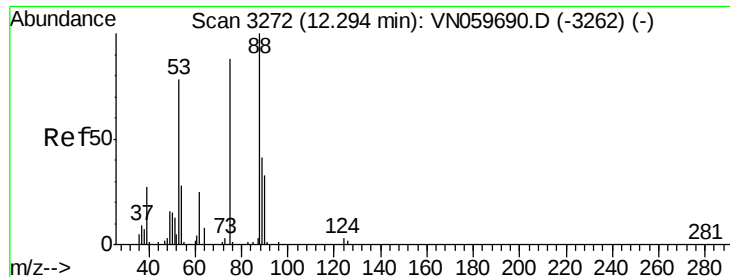
500

0

12.70 12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 70.713 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059921.D

Acq: 29 Jan 2020 18:41

Instrument :

MSVOA_N

ClientSampleId :

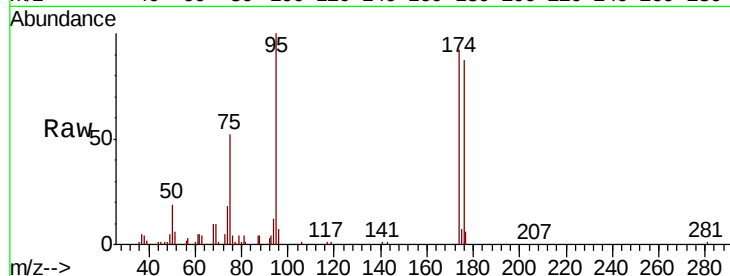
Tot Ion: 75 Resp: 57563

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

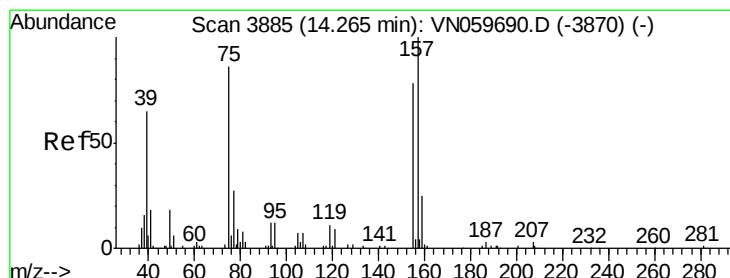
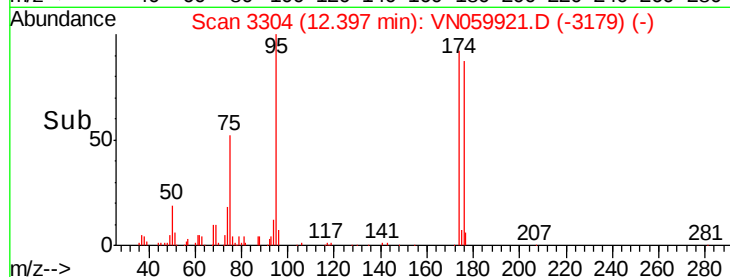
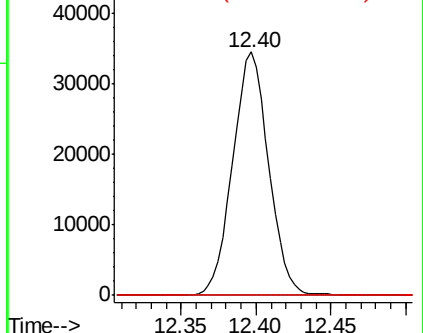
89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.22 min Scan# 3870

Delta R.T. -0.05 min

Lab File: VN059921.D

Acq: 29 Jan 2020 18:41

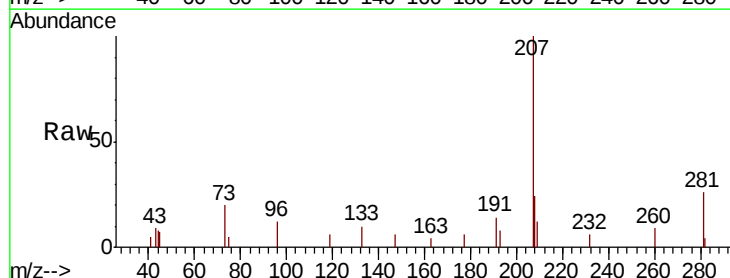
Tgt Ion: 75 Resp: 96

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): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

