

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012920\
 Data File : VN059909.D
 Acq On : 29 Jan 2020 14:00
 Operator : JC/MD
 Sample : L1289-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 30 00:02:08 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	208804	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	319014	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	286004	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	122350	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	110939	47.84	ug/l	0.00
Spiked Amount						
			Recovery	=	95.68%	
35) Dibromofluoromethane	7.57	113	95426	50.16	ug/l	0.00
Spiked Amount						
			Recovery	=	100.32%	
50) Toluene-d8	10.08	98	374000	50.74	ug/l	0.00
Spiked Amount						
			Recovery	=	101.48%	
62) 4-Bromofluorobenzene	12.40	95	127418	47.95	ug/l	0.00
Spiked Amount						
			Recovery	=	95.90%	

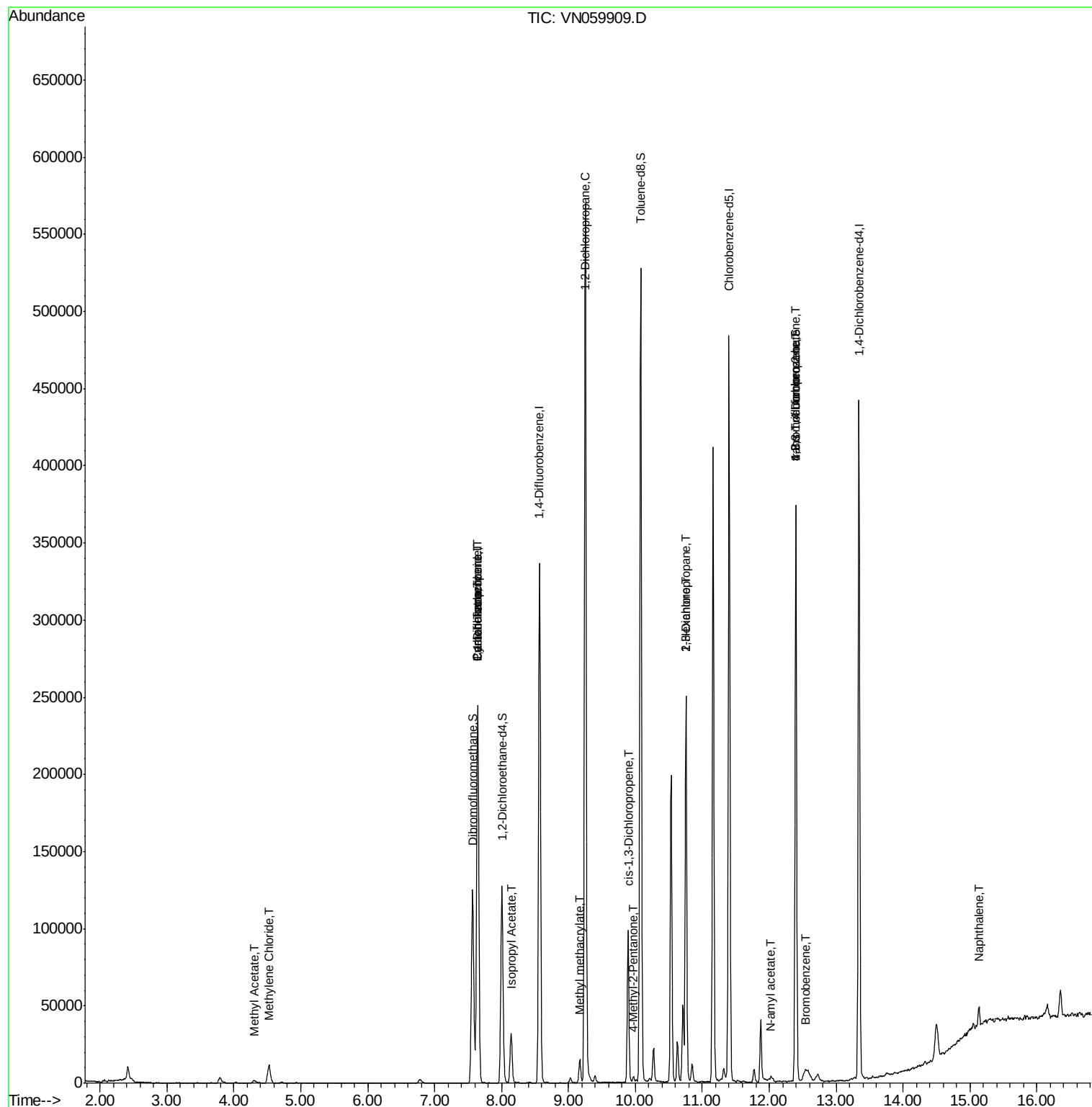
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6749	Below Cal		94
18) Methyl Acetate	4.29	43	1267	0.468	ug/l #	62
20) Methylene Chloride	4.53	84	9459	3.300	ug/l	89
31) Cyclohexane	7.64	56	3728	1.087	ug/l #	15
36) 1,1-Dichloropropene	7.64	75	13915	5.009	ug/l #	51
38) Carbon Tetrachloride	7.64	117	19339	6.399	ug/l #	16
43) Isopropyl Acetate	8.14	43	37349	8.334	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	646	0.315	ug/l #	44
48) Methyl methacrylate	9.17	41	1920	0.958	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2815	1.087	ug/l #	84
54) cis-1,3-Dichloropropene	9.89	75	19281	5.631	ug/l #	58
57) 1,3-Dichloropropane	10.76	76	2858	0.869	ug/l #	42
59) 2-Hexanone	10.75	43	34788	18.227	ug/l #	55
74) N-amyl acetate	12.03	43	1552	0.446	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	63806	30.988	ug/l #	100
77) Bromobenzene	12.54	156	5790	2.548	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.40	75	63806	66.548	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.27	75	69	Below Cal	#	6
95) Naphthalene	15.13	128	11215	1.682	ug/l	99

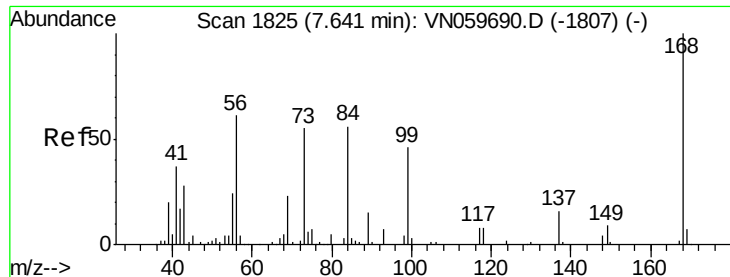
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jan 18 03:09:32 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059909.D

Acq: 29 Jan 2020 14:00

Instrument :

MSVOA_N

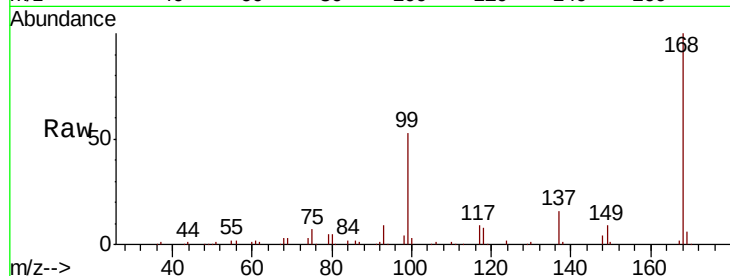
ClientSampled :

Tot Ion:168 Resp: 208804

Ion Ratio Lower Upper

168 100

99 52.9 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059909.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN059909.D (-1807) (-)

7.64

80000

60000

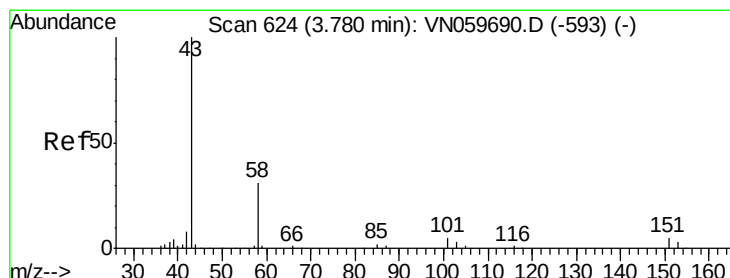
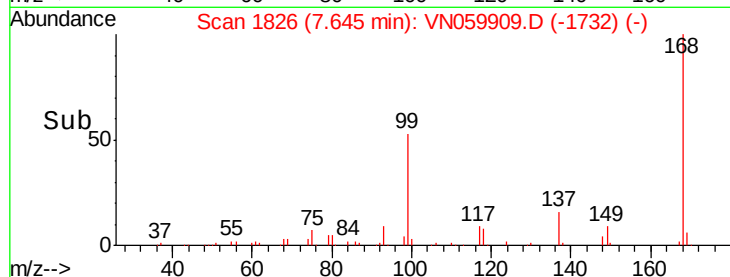
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059909.D

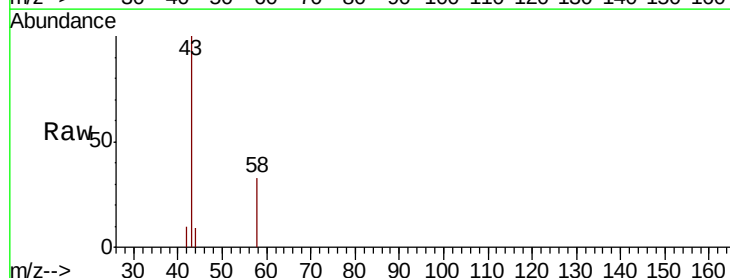
Acq: 29 Jan 2020 14:00

Tgt Ion: 43 Resp: 6749

Ion Ratio Lower Upper

43 100

58 32.9 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059909.D (-593) (-)

Ion 58.00 (57.70 to 58.70): VN059909.D (-593) (-)

3.79

2500

2000

1500

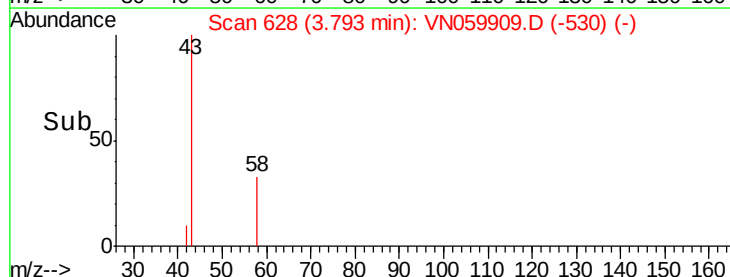
1000

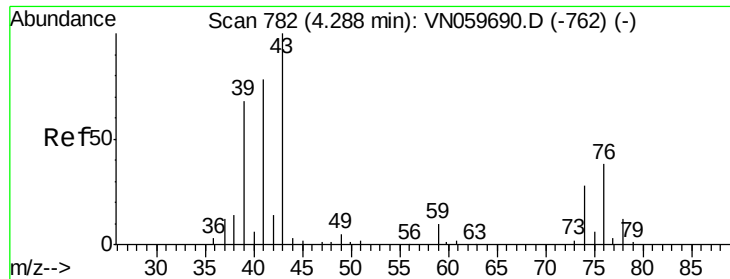
500

0

3.70 3.75 3.80 3.85

Time-->

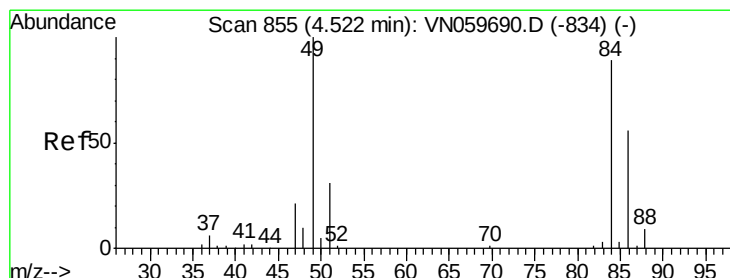
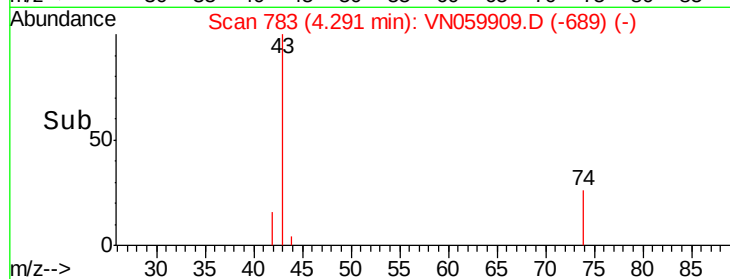
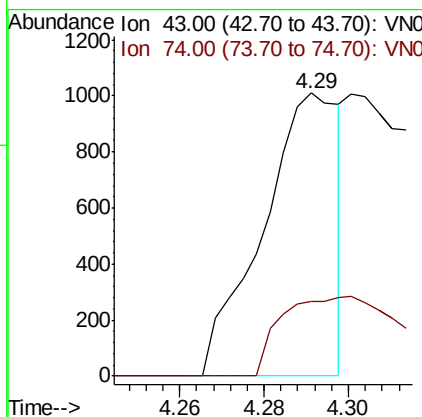
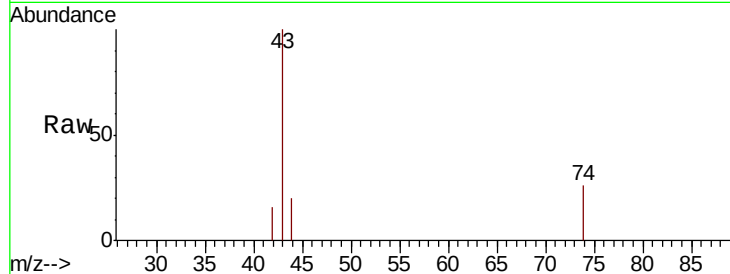




#18
Methyl Acetate
Concen: 0.468 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN059909.D
Acq: 29 Jan 2020 14:00

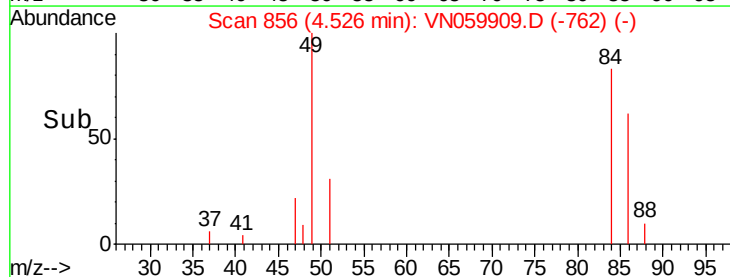
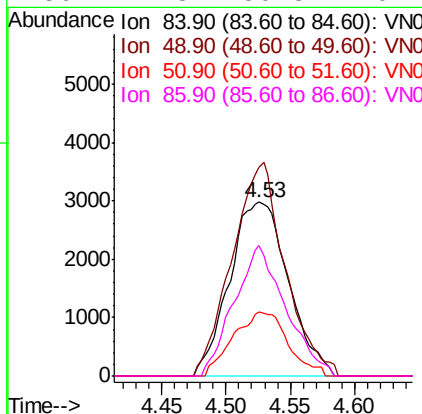
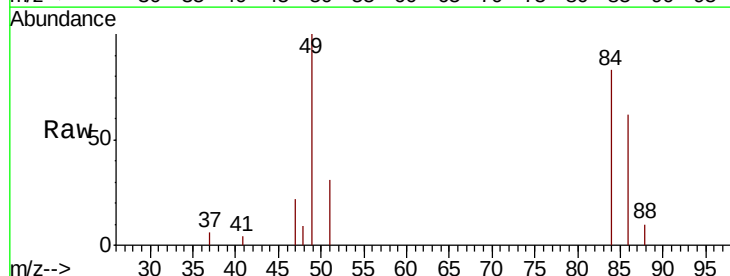
Instrument :
MSVOA_N
ClientSampleId :

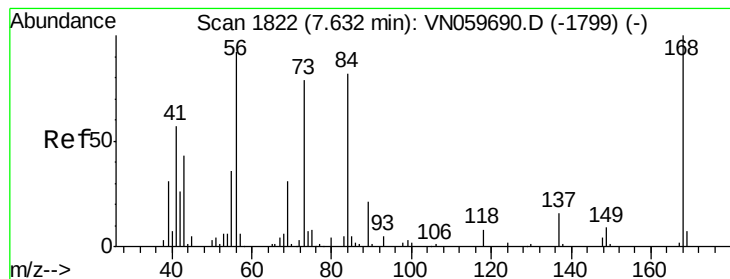
Tot Ion: 43 Resp: 1267
Ion Ratio Lower Upper
43 100
74 39.9 17.5 26.3#



#20
Methylene Chloride
Concen: 3.300 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059909.D
Acq: 29 Jan 2020 14:00

Tgt Ion: 84 Resp: 9459
Ion Ratio Lower Upper
84 100
49 120.1 106.6 160.0
51 37.1 31.9 47.9
86 74.8 50.8 76.2





#31

Cyclohexane

Concen: 1.087 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059909.D

Acq: 29 Jan 2020 14:00

Instrument :

MSVOA_N

ClientSampleId :

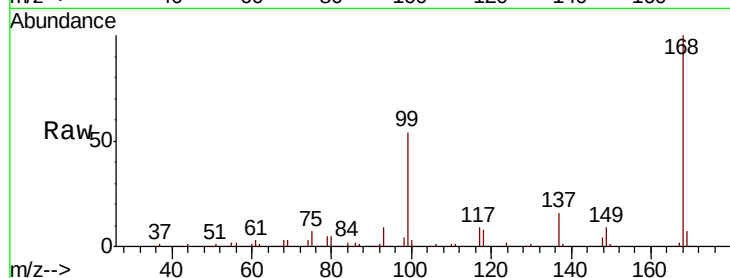
Tot Ion: 56 Resp: 3728

Ion Ratio Lower Upper

56 100

69 148.8 26.5 39.7#

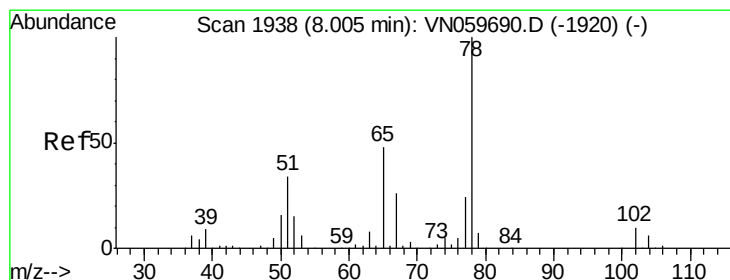
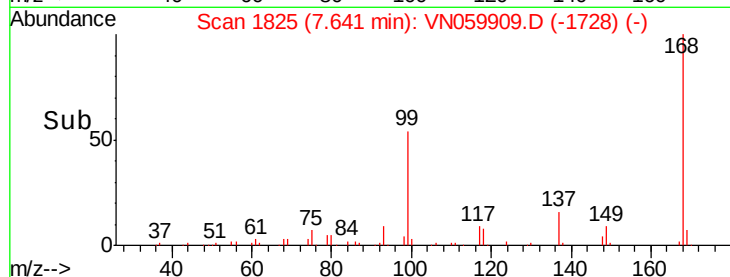
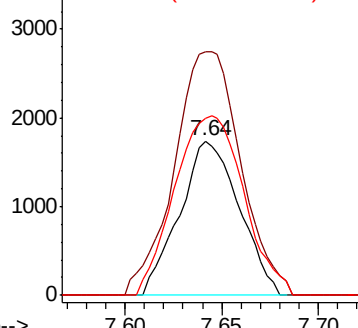
84 114.4 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN059909.D (-1799) (-)

Ion 69.00 (68.70 to 69.70): VN059909.D (-1799) (-)

Ion 84.00 (83.70 to 84.70): VN059909.D (-1799) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.843 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059909.D

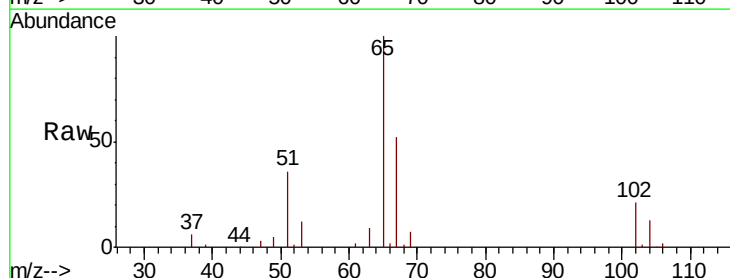
Acq: 29 Jan 2020 14:00

Tgt Ion: 65 Resp: 110939

Ion Ratio Lower Upper

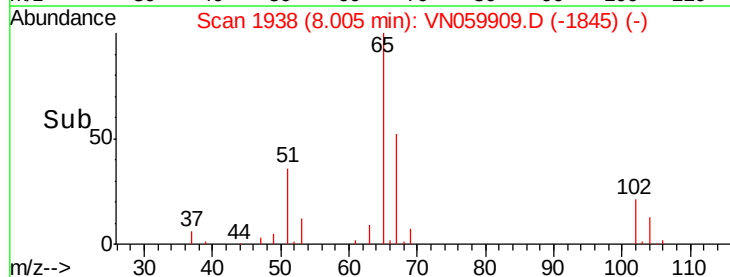
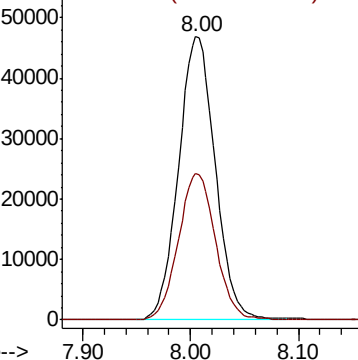
65 100

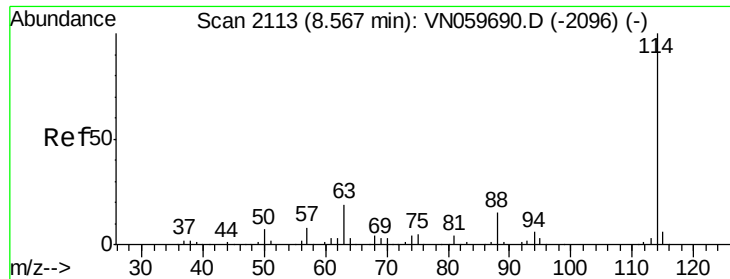
67 52.1 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN059909.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN059909.D (-1845) (-)

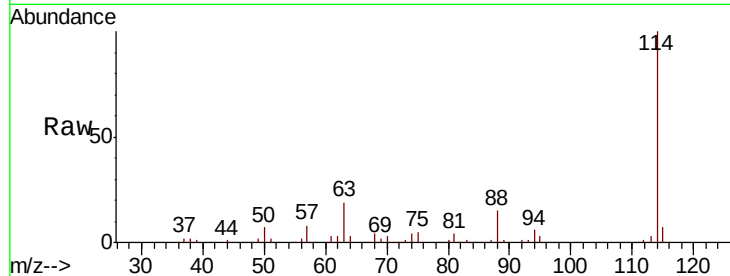




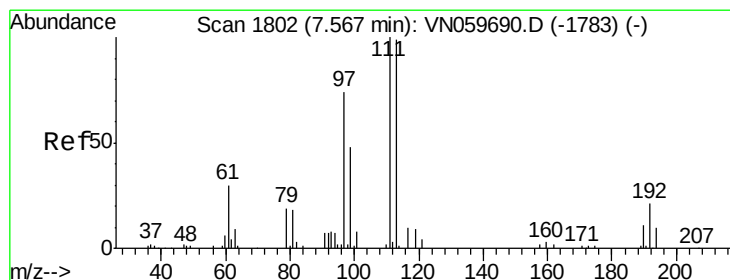
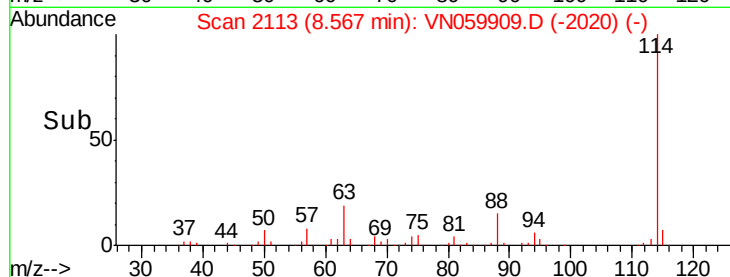
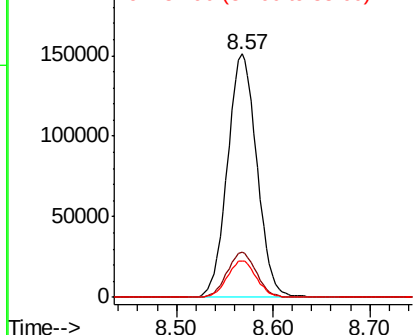
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059909.D
 Acq: 29 Jan 2020 14:00

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 319014
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 43.6
 88 15.1 0.0 31.4

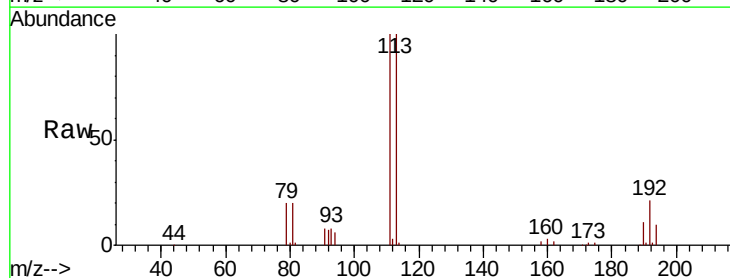


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

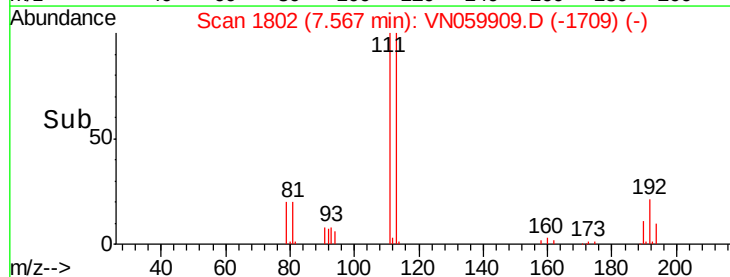
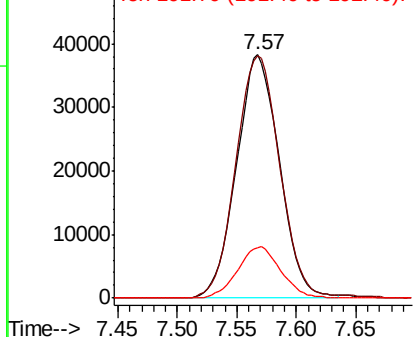


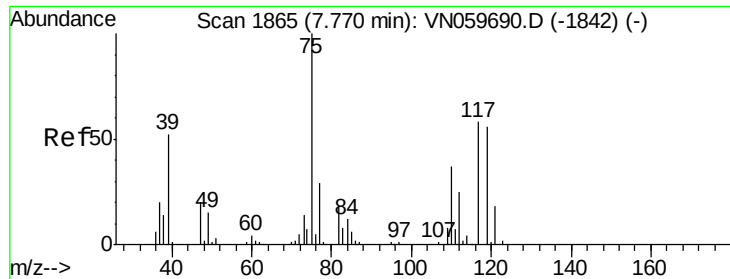
#35
 Dibromofluoromethane
 Concen: 50.160 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059909.D
 Acq: 29 Jan 2020 14:00

Tgt Ion:113 Resp: 95426
 Ion Ratio Lower Upper
 113 100
 111 101.9 83.5 125.3
 192 21.1 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

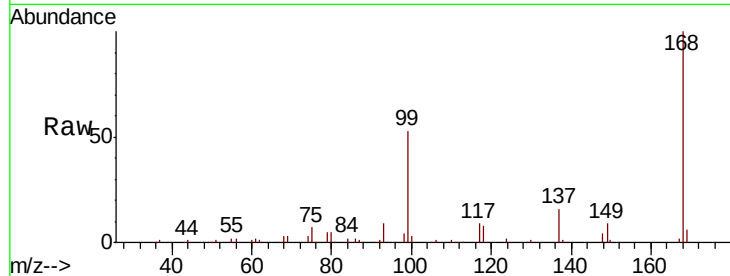




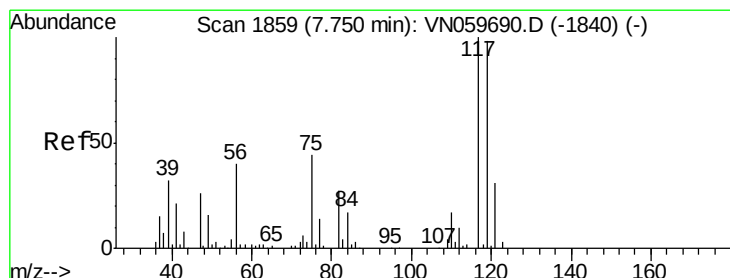
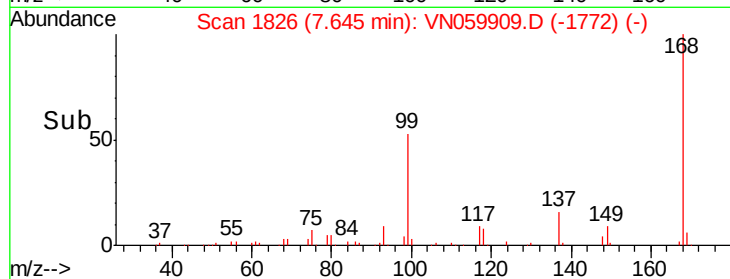
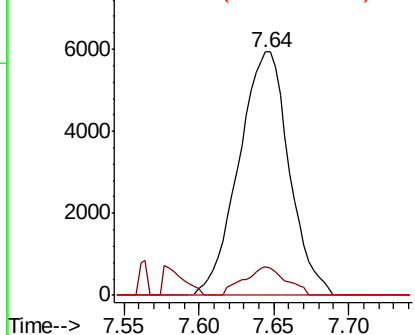
#36
 1,1-Dichloropropene
 Concen: 5.009 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059909.D
 Acq: 29 Jan 2020 14:00

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	75	Resp	13915
Ion Ratio	Lower	Upper	
75	100		
110	9.7	16.6	49.7#
77	0.0	25.1	37.7#

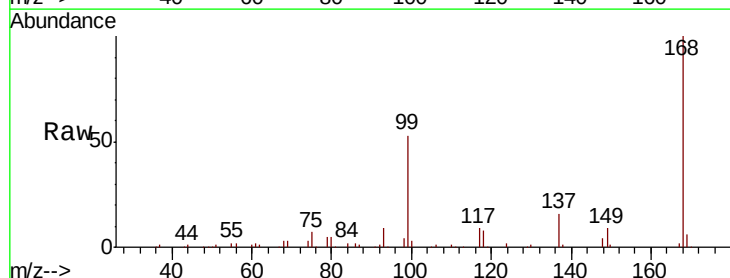


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

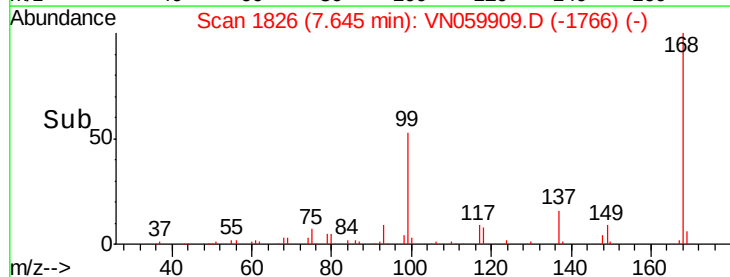
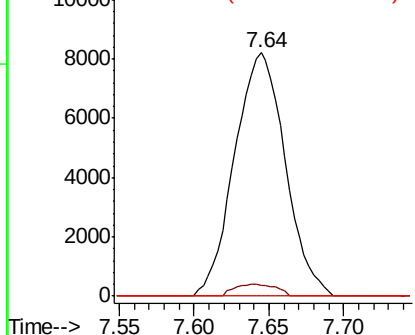


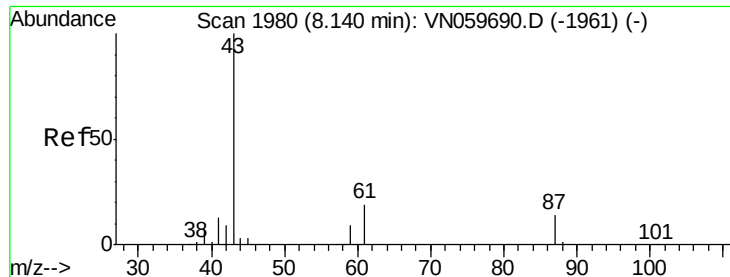
#38
 Carbon Tetrachloride
 Concen: 6.399 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059909.D
 Acq: 29 Jan 2020 14:00

Tgt Ion	117	Resp	19339
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	4.5	76.5	114.7#
121	0.0	25.1	37.7#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 8.334 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059909.D

Acq: 29 Jan 2020 14:00

Instrument :

MSVOA_N

ClientSampleId :

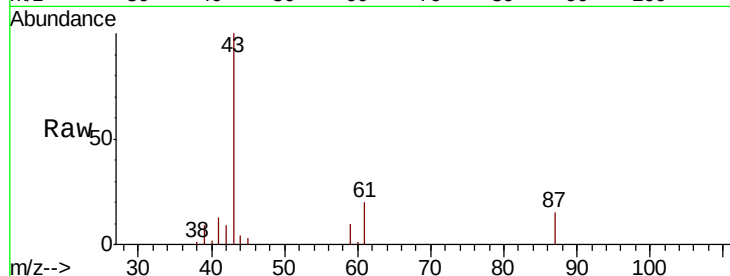
Tot Ion: 43 Resp: 37349

Ion Ratio Lower Upper

43 100

61 20.5 20.2 30.2

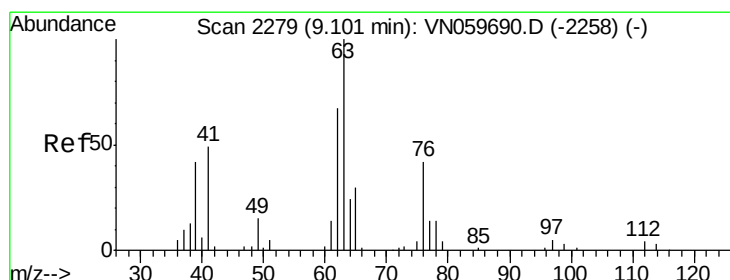
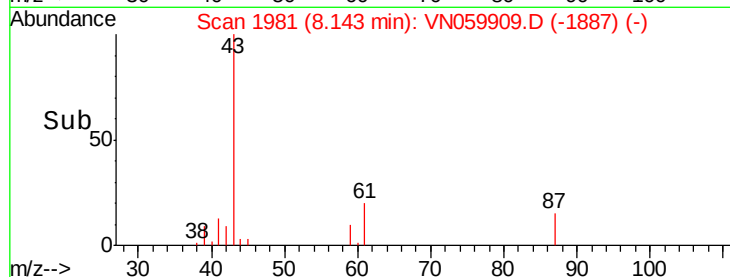
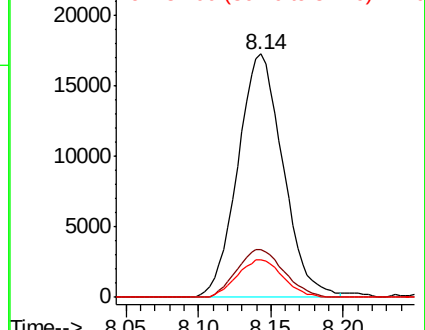
87 15.5 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059909.D (-1961) (-)

Ion 61.00 (60.70 to 61.70): VN059909.D (-1961) (-)

Ion 87.00 (86.70 to 87.70): VN059909.D (-1961) (-)



#45

1,2-Dichloropropane

Concen: 0.315 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN059909.D

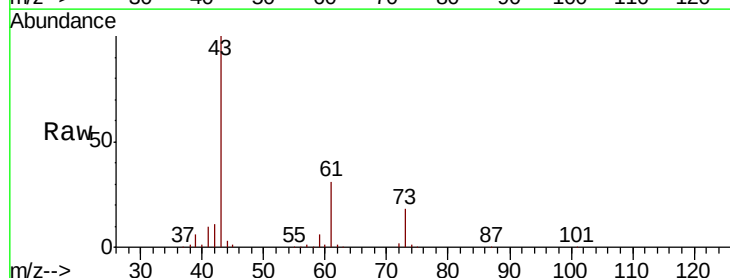
Acq: 29 Jan 2020 14:00

Tgt Ion: 63 Resp: 646

Ion Ratio Lower Upper

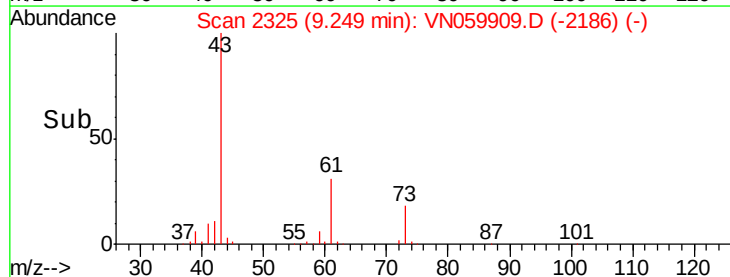
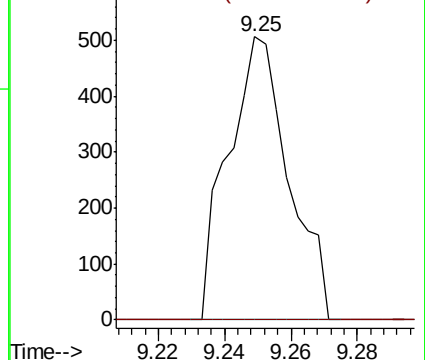
63 100

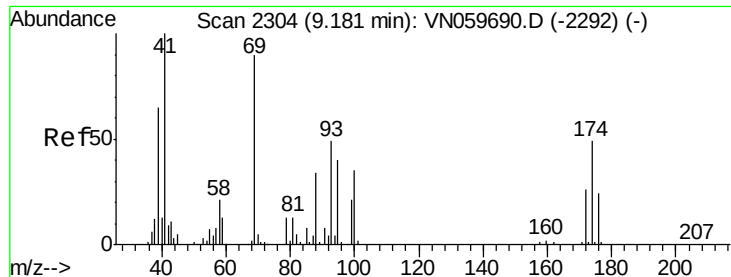
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059909.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059909.D (-2186) (-)

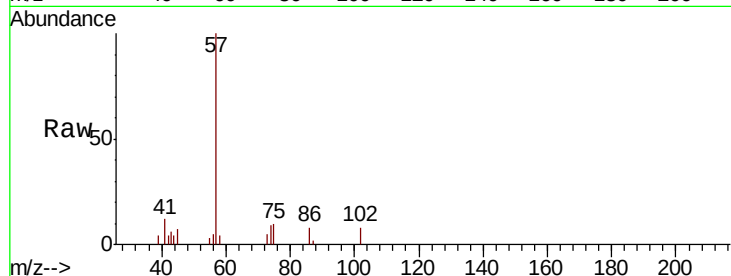




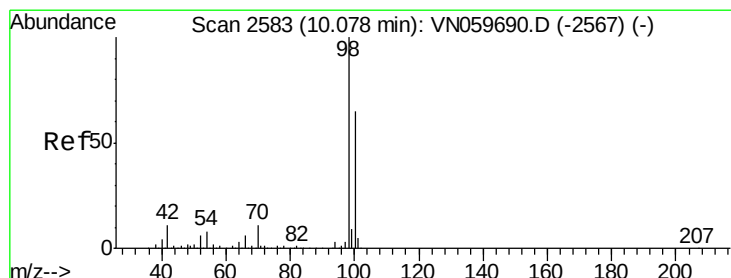
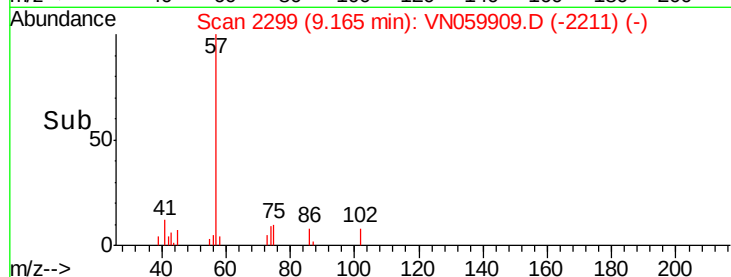
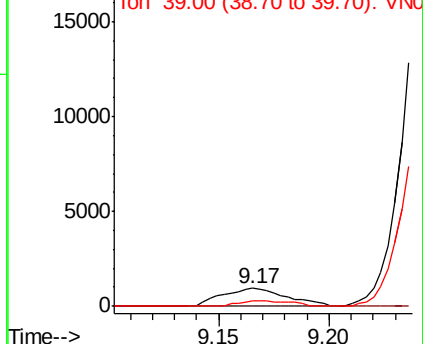
#48
Methvl methacrylate
Concen: 0.958 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN059909.D
Acq: 29 Jan 2020 14:00

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 1920
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

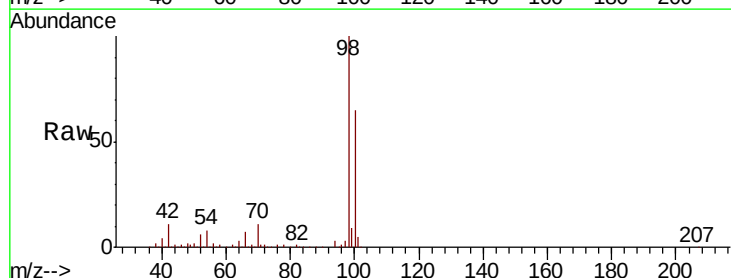


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

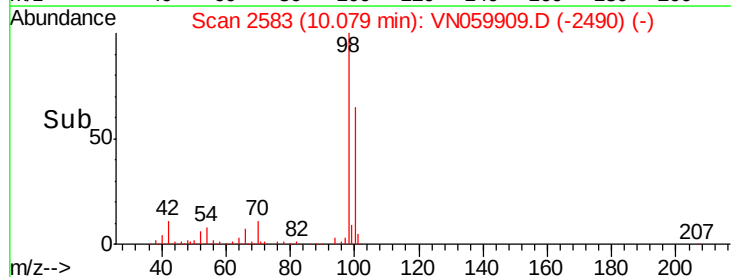
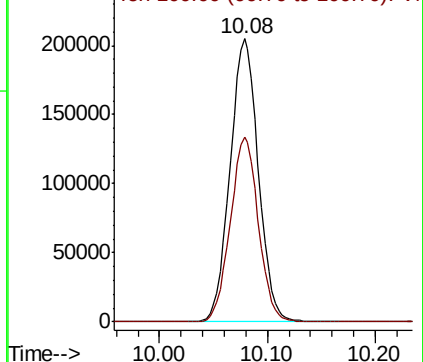


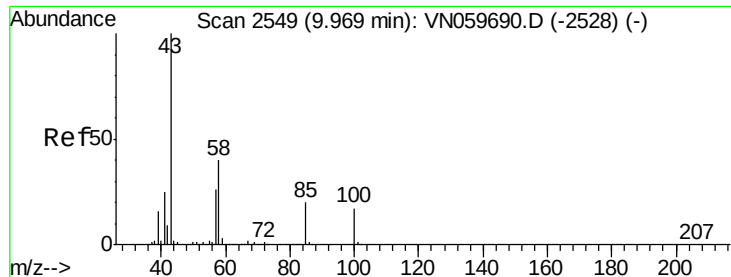
#50
Toluene-d8
Concen: 50.740 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059909.D
Acq: 29 Jan 2020 14:00

Tgt Ion: 98 Resp: 374000
Ion Ratio Lower Upper
98 100
100 64.8 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: 1.087 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059909.D

Acq: 29 Jan 2020 14:00

Instrument :

MSVOA_N

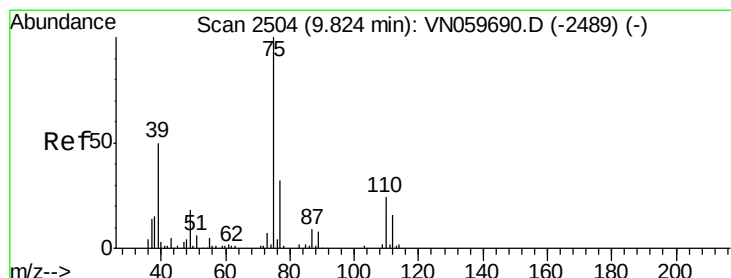
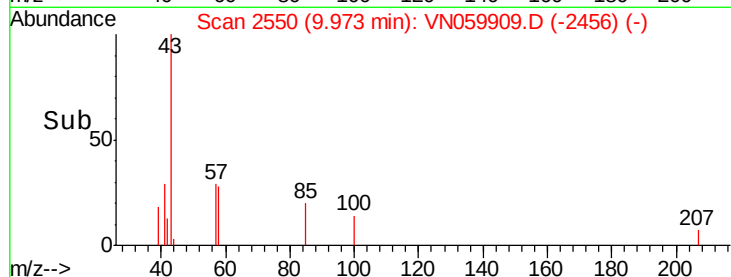
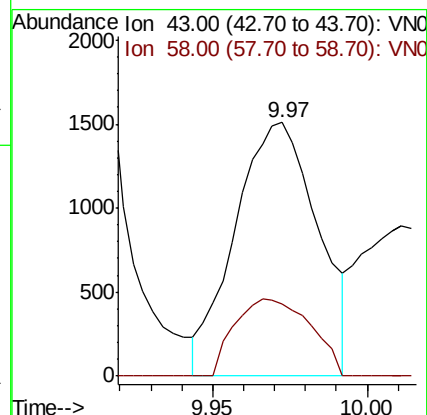
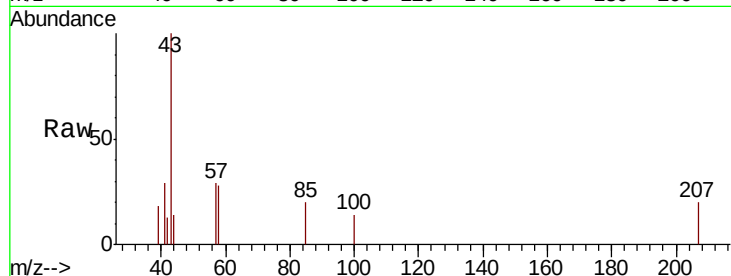
ClientSampled :

Tot Ion: 43 Resp: 2815

Ion Ratio Lower Upper

43 100

58 27.9 29.8 44.8#



#54

cis-1,3-Dichloropropene

Concen: 5.631 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN059909.D

Acq: 29 Jan 2020 14:00

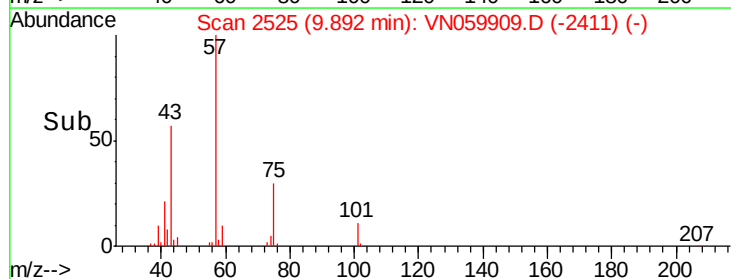
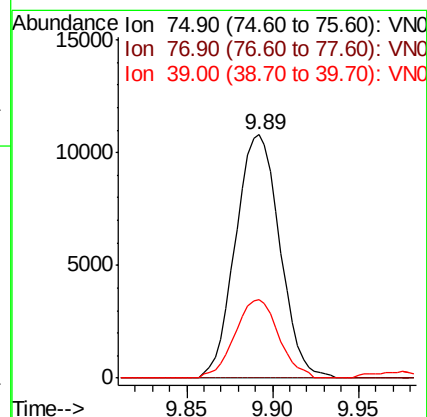
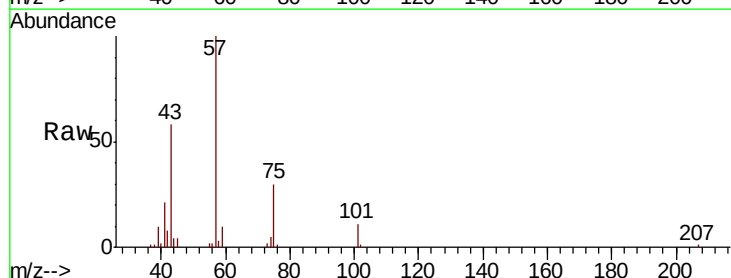
Tgt Ion: 75 Resp: 19281

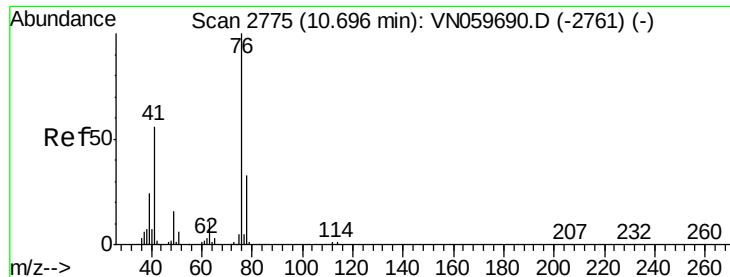
Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 32.2 46.1 69.1#

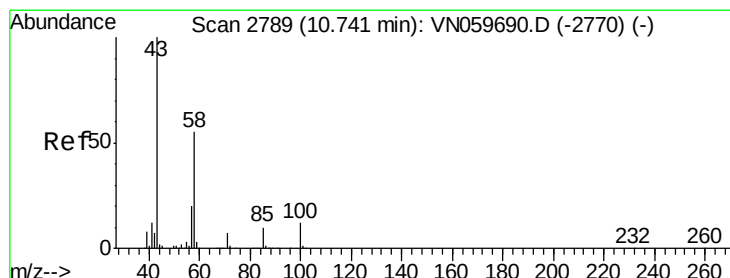
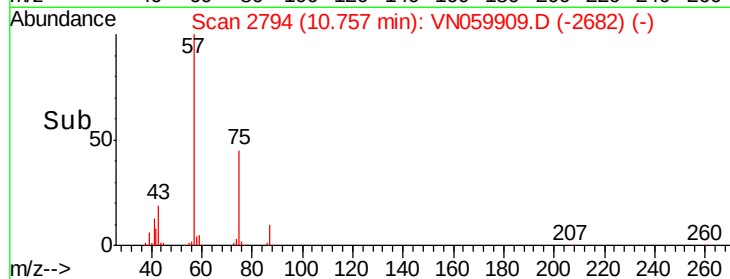
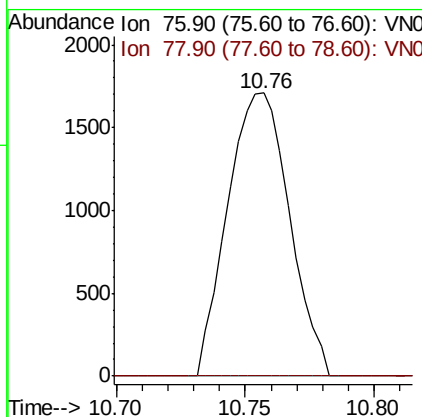
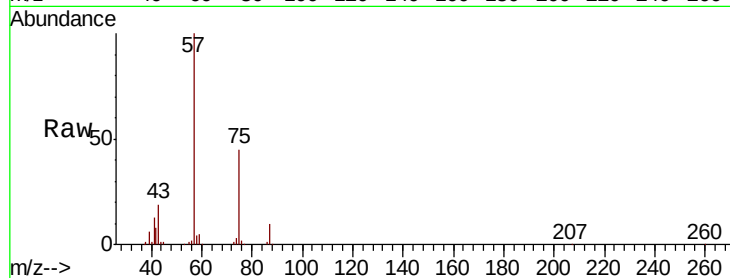




#57
 1,3-Dichloropropane
 Concen: 0.869 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.06 min
 Lab File: VN059909.D
 Acq: 29 Jan 2020 14:00

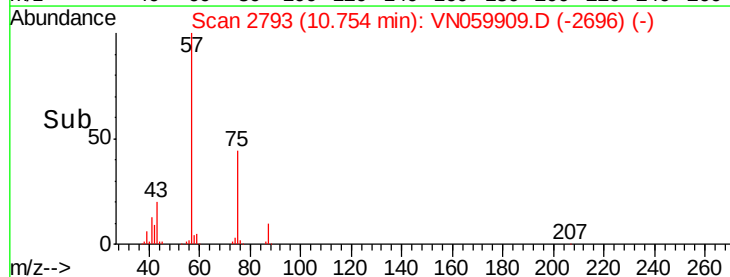
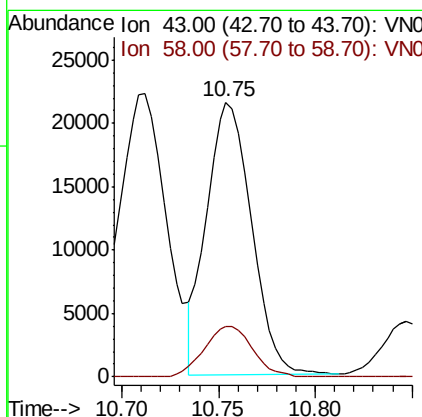
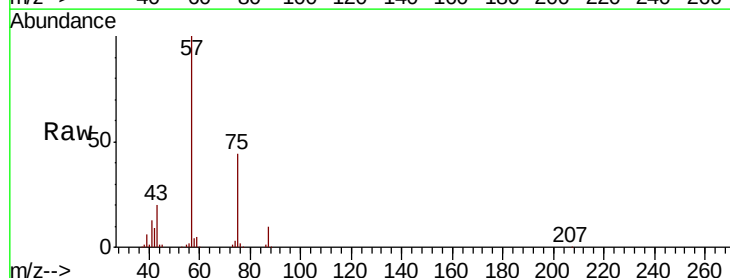
Instrument :
 MSVOA_N
 ClientSampleId :

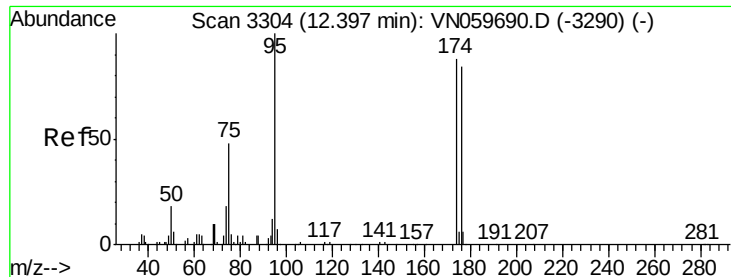
Tot Ion: 76 Resp: 2858
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 18.227 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059909.D
 Acq: 29 Jan 2020 14:00

Tgt Ion: 43 Resp: 34788
 Ion Ratio Lower Upper
 43 100
 58 19.9 25.8 77.3#

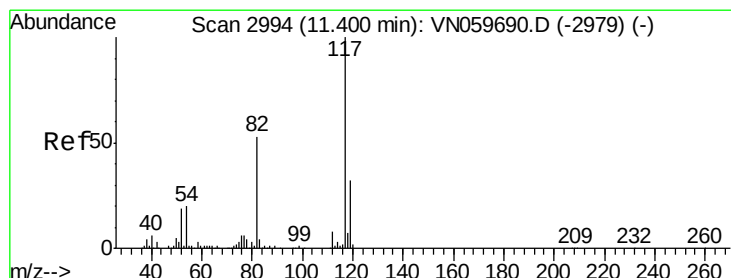
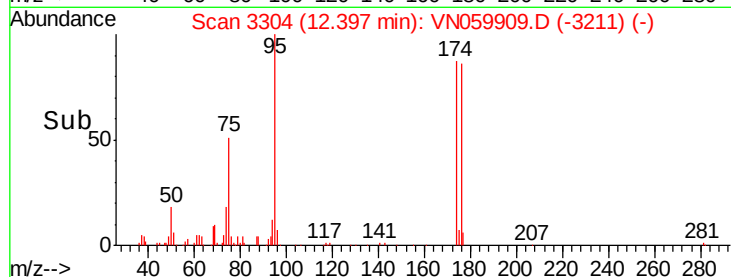
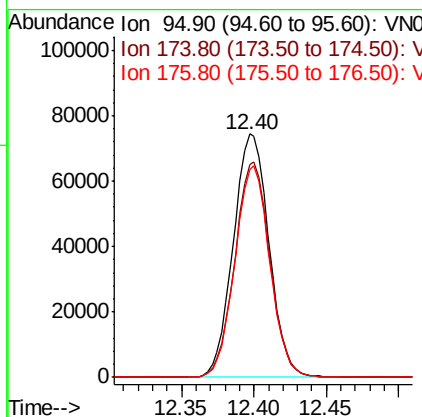
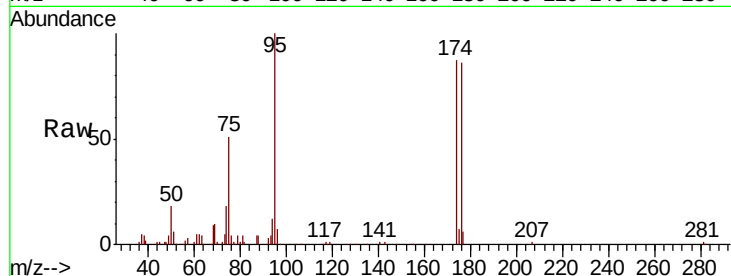




#62
4-Bromofluorobenzene
Concen: 47.952 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059909.D
Acq: 29 Jan 2020 14:00

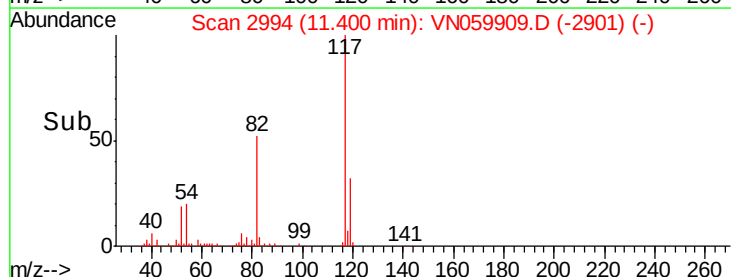
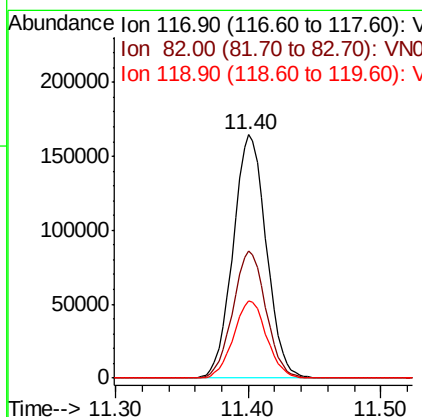
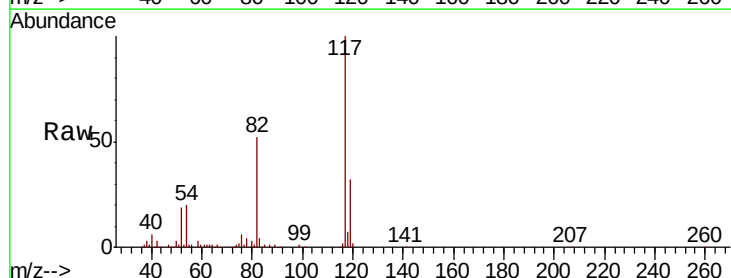
Instrument :
MSVOA_N
ClientSampled :

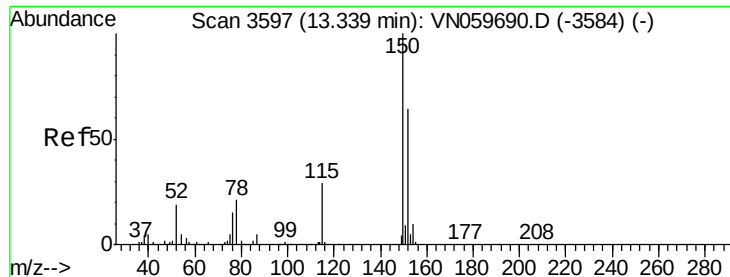
Tot Ion: 95 Resp: 127418
Ion Ratio Lower Upper
95 100
174 87.2 0.0 151.4
176 85.1 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059909.D
Acq: 29 Jan 2020 14:00

Tgt Ion: 117 Resp: 286004
Ion Ratio Lower Upper
117 100
82 52.3 45.9 68.9
119 31.8 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN059909.D

Acq: 29 Jan 2020 14:00

Instrument :

MSVOA_N

ClientSampleId :

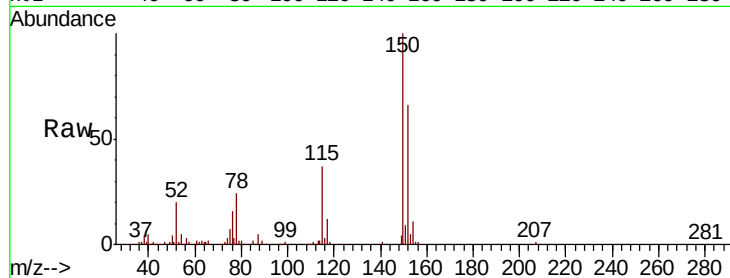
Tot Ion:152 Resp: 122350

Ion Ratio Lower Upper

152 100

115 57.7 30.3 90.9

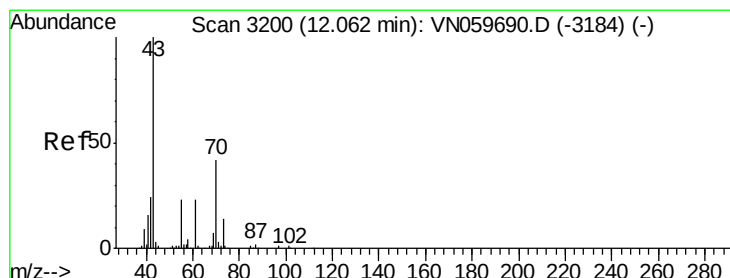
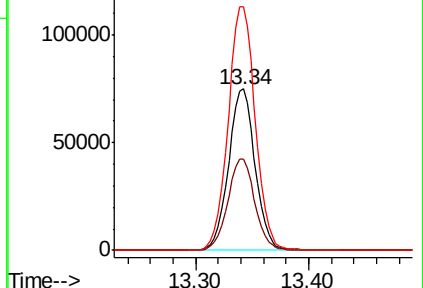
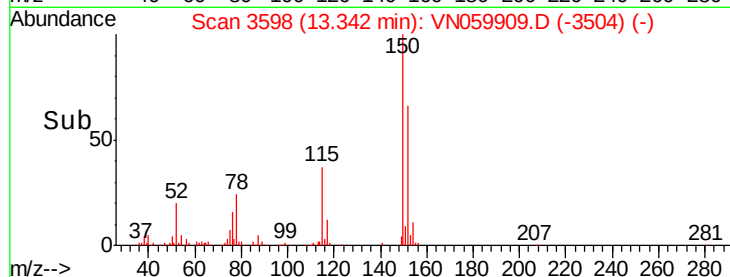
150 154.0 0.0 345.2



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: 0.446 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.03 min

Lab File: VN059909.D

Acq: 29 Jan 2020 14:00

Tgt Ion: 43 Resp: 1552

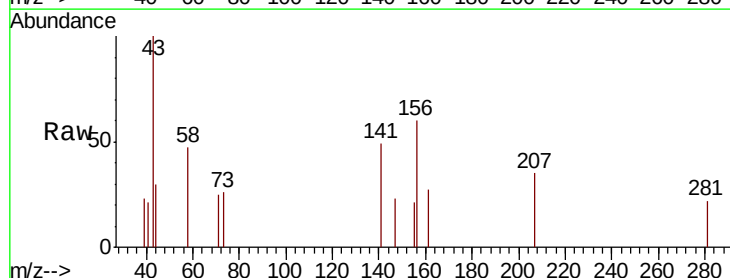
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

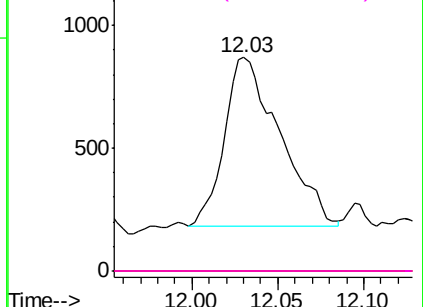
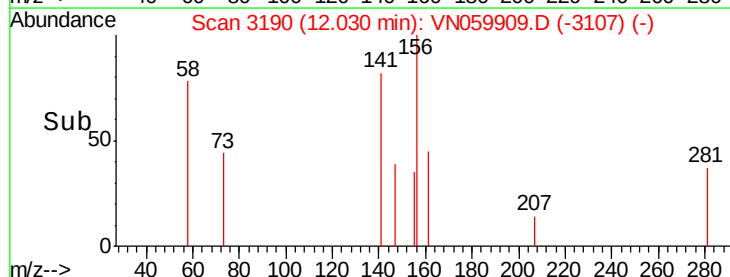


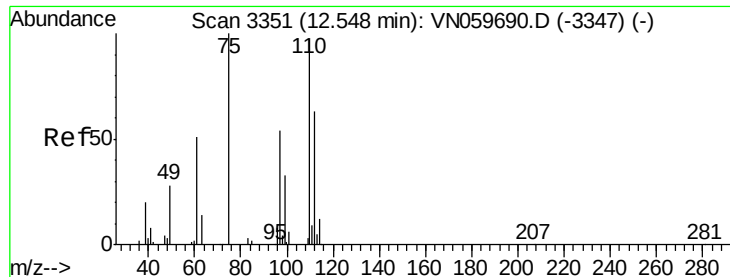
Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 30.988 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059909.D

Acq: 29 Jan 2020 14:00

Instrument :

MSVOA_N

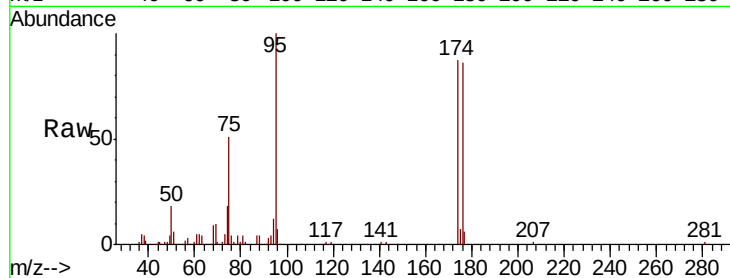
ClientSampled :

Tot Ion: 75 Resp: 63806

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN059909.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN059909.D (-3347) (-)

12.40

40000

30000

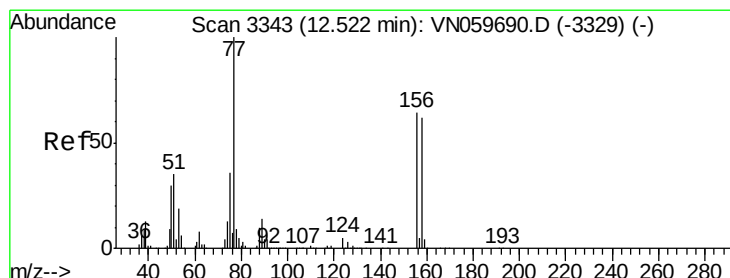
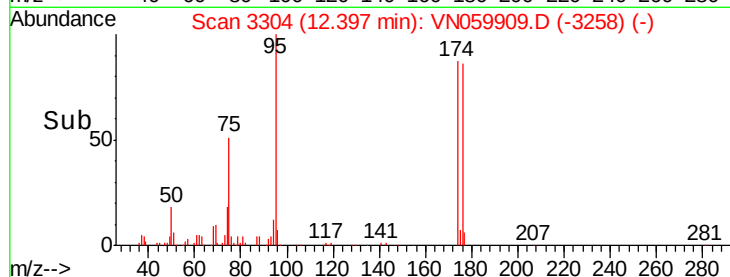
20000

10000

0

Time-->

12.35 12.40 12.45



#77

Bromobenzene

Concen: 2.548 ug/l

RT: 12.54 min Scan# 3347

Delta R.T. 0.01 min

Lab File: VN059909.D

Acq: 29 Jan 2020 14:00

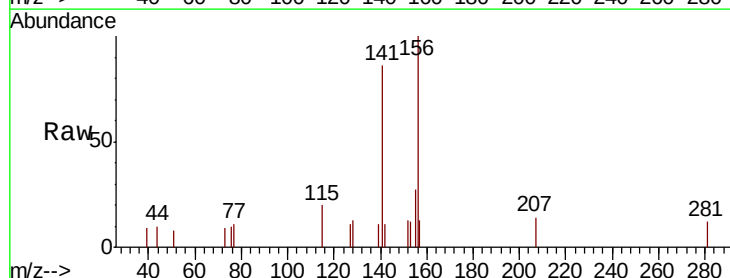
Tgt Ion: 156 Resp: 5790

Ion Ratio Lower Upper

156 100

77 4.2 115.8 347.4#

158 0.0 49.2 147.6#



Abundance Ion 155.80 (155.50 to 156.50): VN059909.D (-3329) (-)

Ion 77.00 (76.70 to 77.70): VN059909.D (-3329) (-)

Ion 157.80 (157.50 to 158.50): VN059909.D (-3329) (-)

12.54

2500

2000

1500

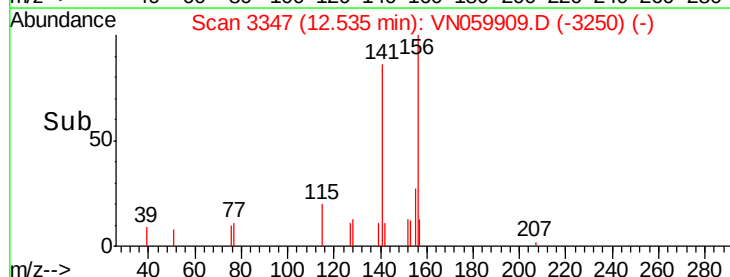
1000

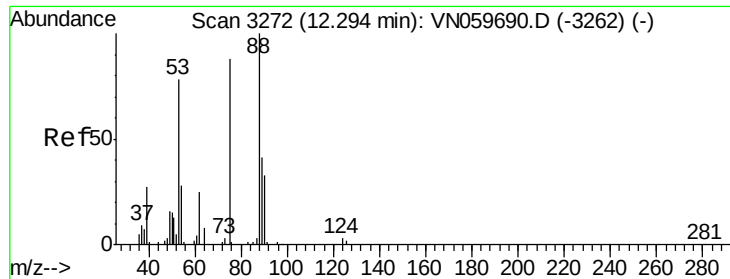
500

0

Time-->

12.45 12.50 12.55

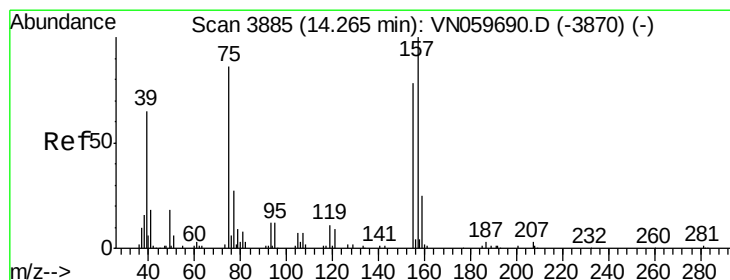
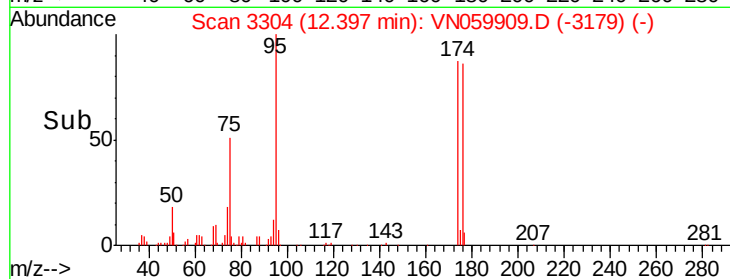
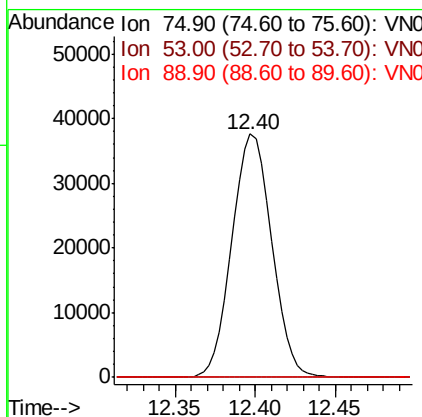
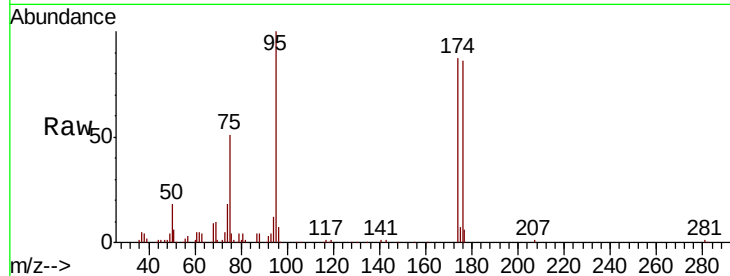




#81
trans-1,4-Dichloro-2-butene
Concen: 66.548 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN059909.D
Acq: 29 Jan 2020 14:00

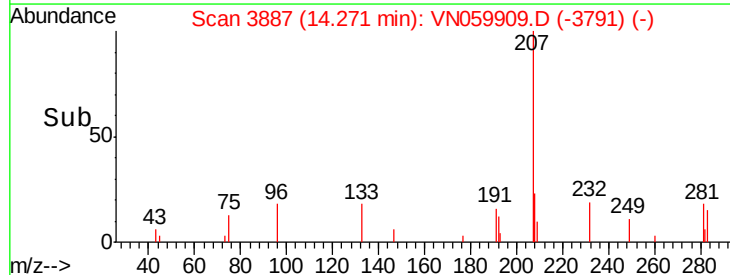
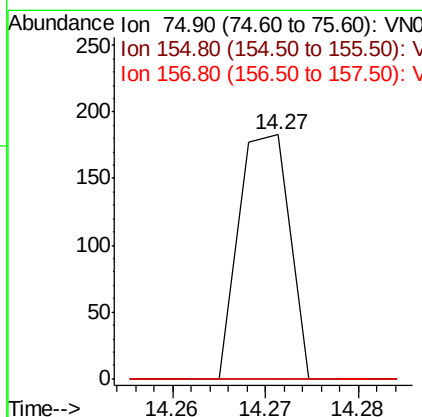
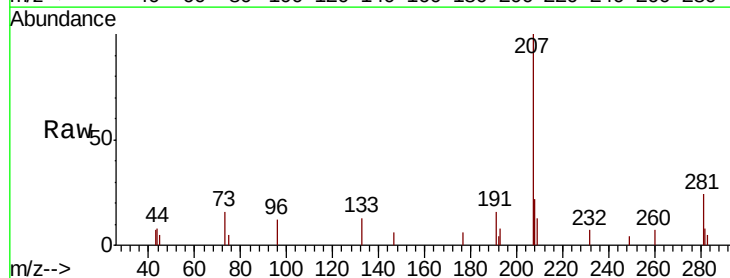
Instrument :
MSVOA_N
ClientSampled :

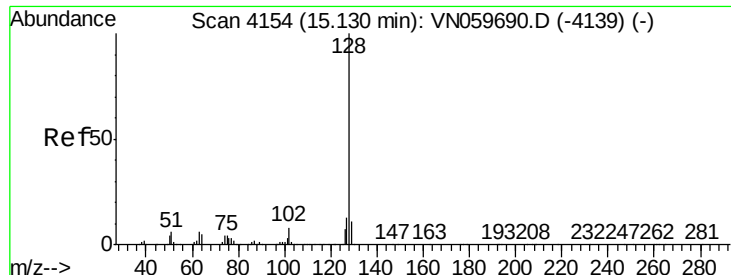
Tot Ion: 75 Resp: 63806
Ion Ratio Lower Upper
75 100
53 0.0 78.1 117.1#
89 0.0 35.4 53.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.27 min Scan# 3887
Delta R.T. 0.01 min
Lab File: VN059909.D
Acq: 29 Jan 2020 14:00

Tgt Ion: 75 Resp: 69
Ion Ratio Lower Upper
75 100
155 0.0 37.0 110.9#
157 0.0 48.4 145.2#





#95

Naphthalene

Concen: 1.682 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059909.D

Acq: 29 Jan 2020 14:00

Instrument :

MSVOA_N

ClientSampleId :

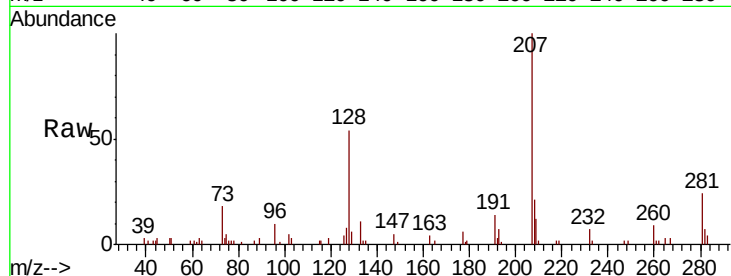
Tot Ion:128 Resp: 11215

Ion Ratio Lower Upper

128 100

127 13.5 10.4 15.6

129 11.1 8.6 12.8



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

