

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012420\
 Data File : VN059848.D
 Acq On : 24 Jan 2020 16:17
 Operator : JC/MD
 Sample : L1247-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 25 00:29:10 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	213405	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	321845	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	287681	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	121786	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	112766	47.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.16%	
35) Dibromofluoromethane	7.57	113	97578	50.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.68%	
50) Toluene-d8	10.08	98	377399	50.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.50%	
62) 4-Bromofluorobenzene	12.40	95	129200	48.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.38%	

Target Compounds

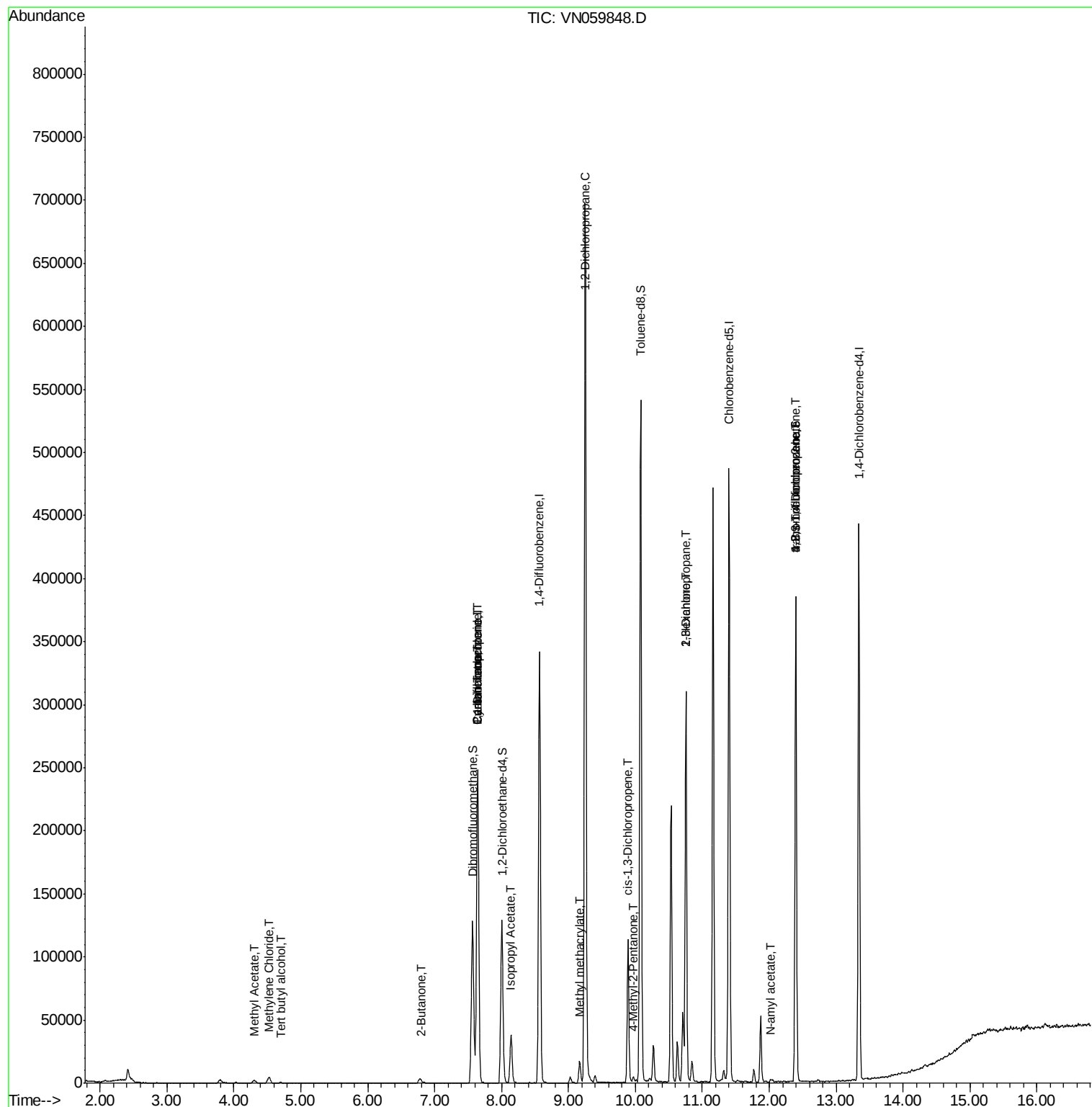
					Qvalue	
11) Tert butyl alcohol	4.70	59	128	0.321	ug/l #	72
16) Acetone	3.80	43	4983	Below Cal		95
18) Methyl Acetate	4.30	43	4236	1.530	ug/l #	74
20) Methylene Chloride	4.52	84	3806	0.494	ug/l #	85
25) 2-Butanone	6.82	43	418	0.311	ug/l #	50
31) Cyclohexane	7.64	56	3937	1.123	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14229	5.077	ug/l #	51
38) Carbon Tetrachloride	7.64	117	19524	6.404	ug/l #	16
43) Isopropyl Acetate	8.14	43	44325	9.803	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	848	0.410	ug/l #	44
48) Methyl methacrylate	9.17	41	2349	1.161	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3187	1.219	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	21964	6.358	ug/l #	55
57) 1,3-Dichloropropane	10.75	76	3287	0.990	ug/l #	42
59) 2-Hexanone	10.75	43	42378	22.008	ug/l #	55
74) N-amyl acetate	12.02	43	2328	0.672	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	63792	31.125	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	63792	66.841	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.29	75	63	Below Cal	#	6

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN059848.D

Acq: 24 Jan 2020 16:17

Instrument :

MSVOA_N

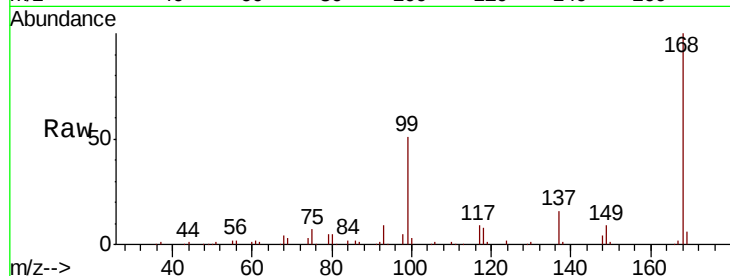
ClientSampleId :

Tot Ion:168 Resp: 213405

Ion Ratio Lower Upper

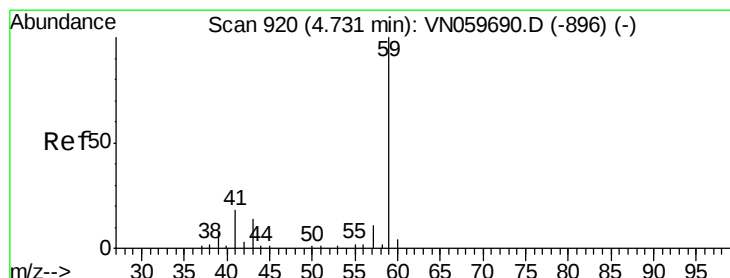
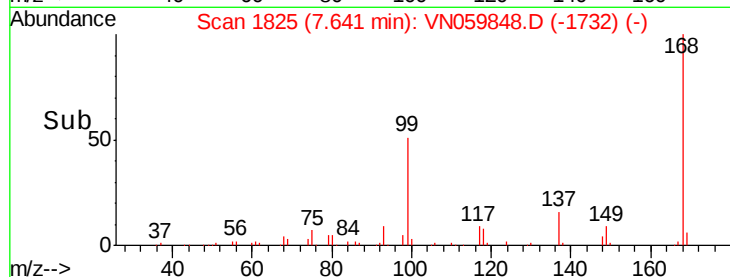
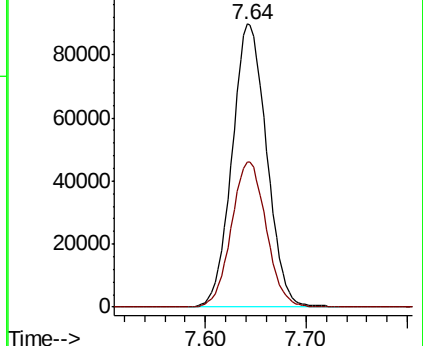
168 100

99 51.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.321 ug/l

RT: 4.70 min Scan# 911

Delta R.T. -0.03 min

Lab File: VN059848.D

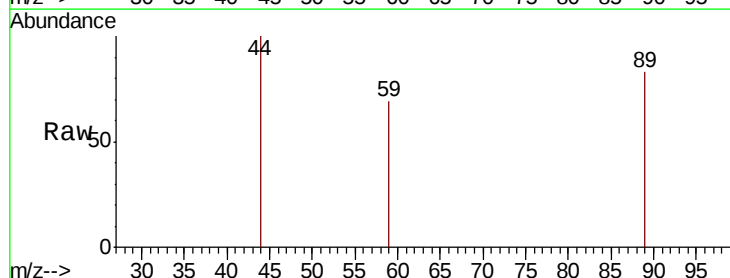
Acq: 24 Jan 2020 16:17

Tgt Ion: 59 Resp: 128

Ion Ratio Lower Upper

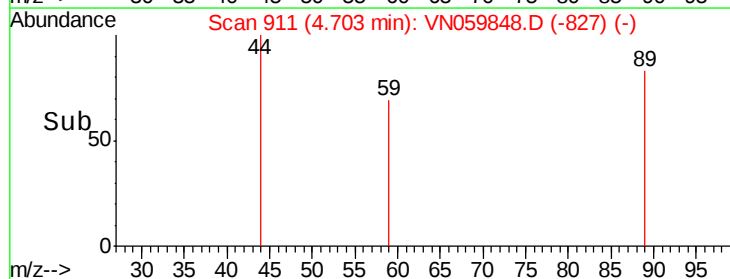
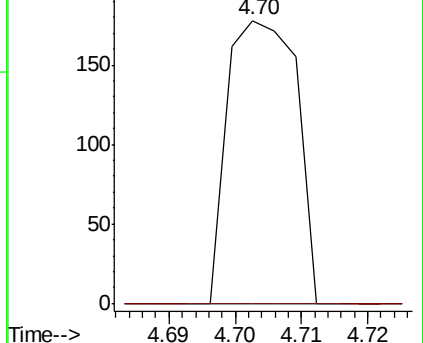
59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN059848.D

Acq: 24 Jan 2020 16:17

Instrument :

MSVOA_N

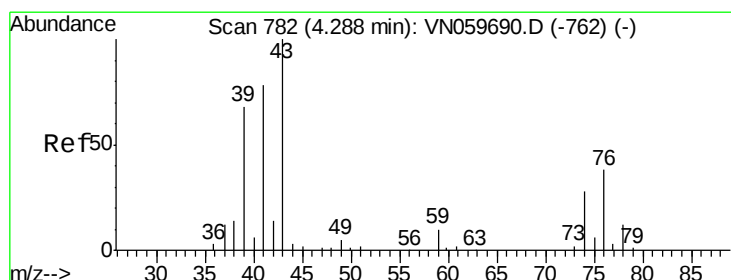
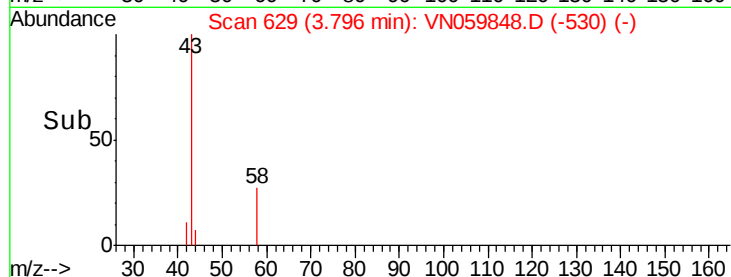
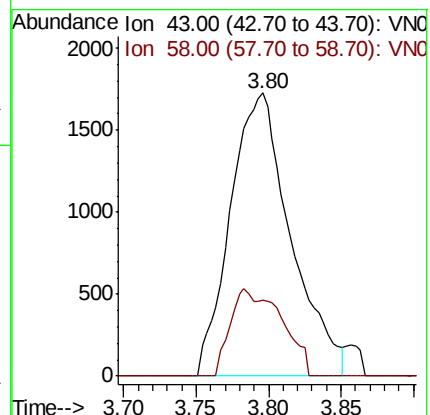
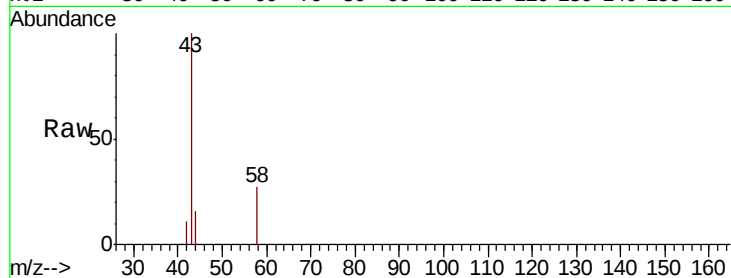
ClientSampleId :

Tot Ion: 43 Resp: 4983

Ion Ratio Lower Upper

43 100

58 26.9 23.6 35.4



#18

Methyl Acetate

Concen: 1.530 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.01 min

Lab File: VN059848.D

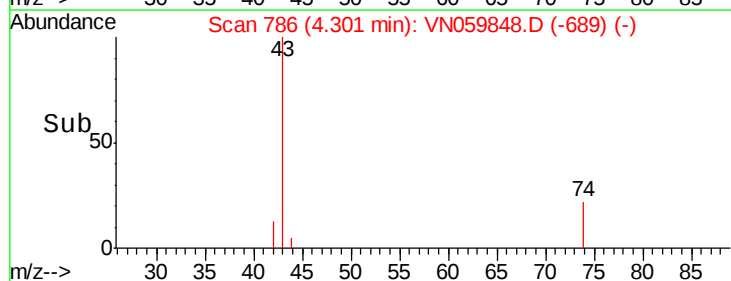
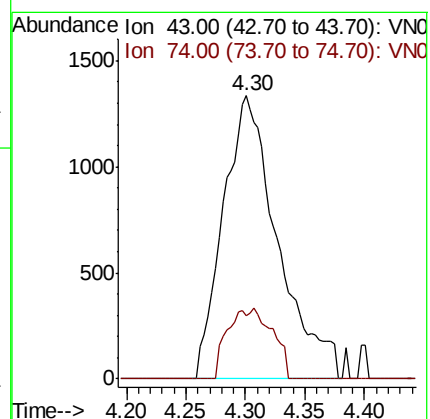
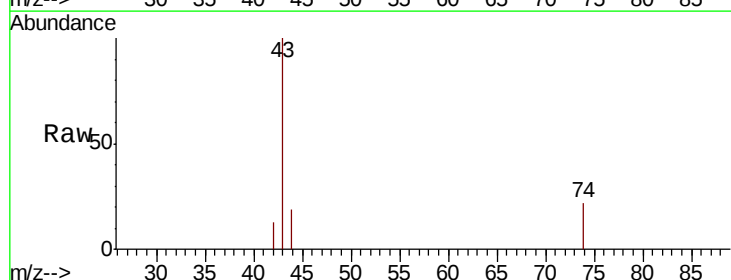
Acq: 24 Jan 2020 16:17

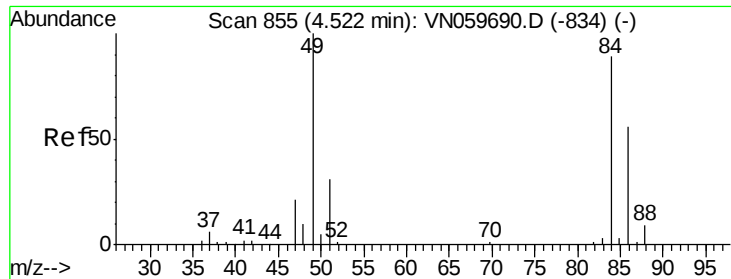
Tgt Ion: 43 Resp: 4236

Ion Ratio Lower Upper

43 100

74 9.3 17.5 26.3#

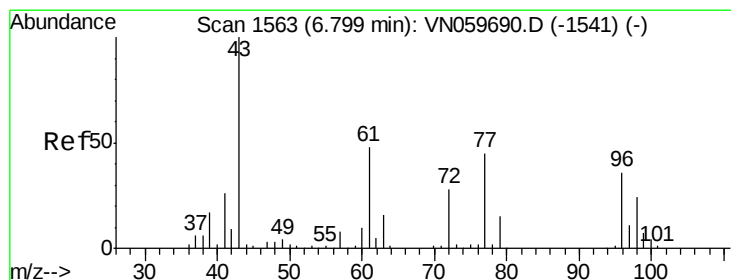
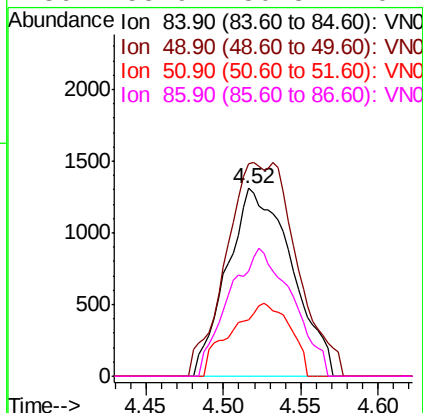
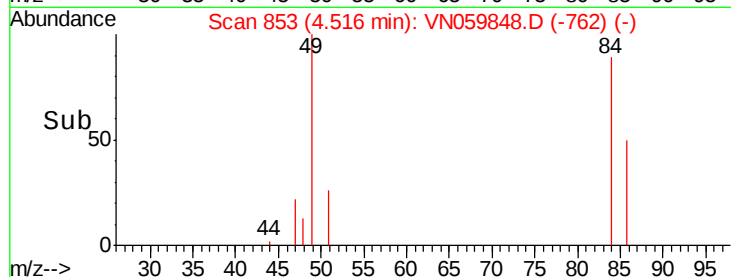
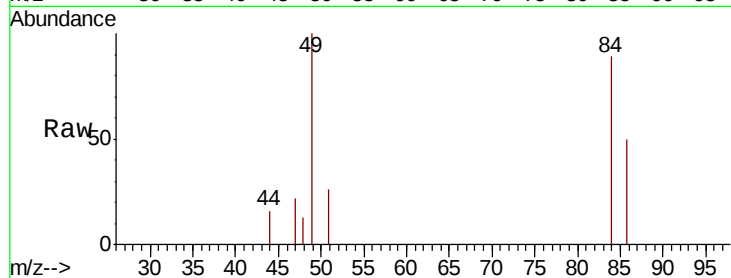




#20
Methvlene Chloride
Concen: 0.494 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN059848.D
Acq: 24 Jan 2020 16:17

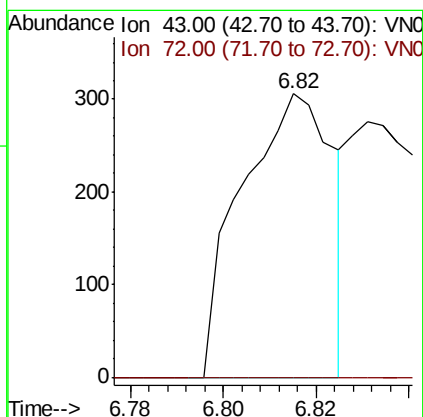
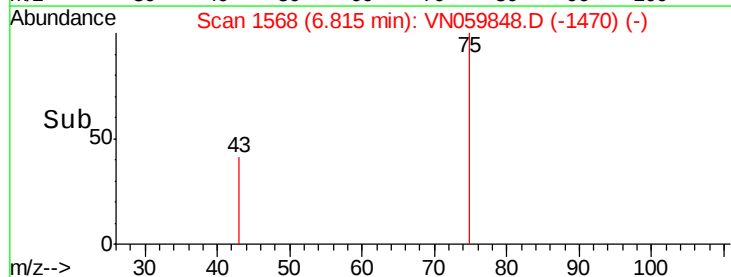
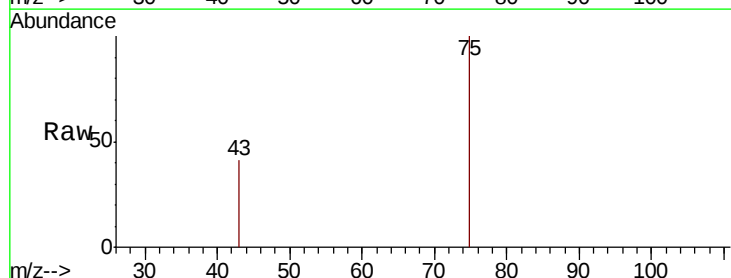
Instrument :
MSVOA_N
ClientSampled :

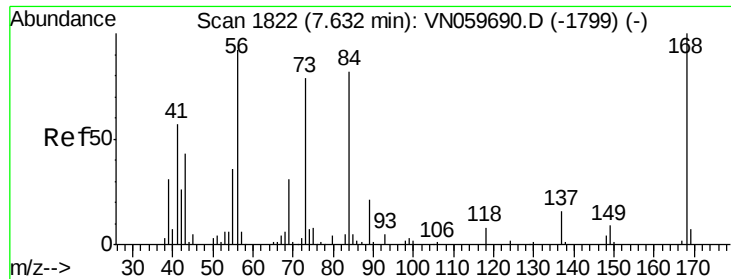
Tot Ion: 84 Resp: 3806
Ion Ratio Lower Upper
84 100
49 112.7 106.6 160.0
51 29.6 31.9 47.9#
86 55.9 50.8 76.2



#25
2-Butanone
Concen: 0.311 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. 0.02 min
Lab File: VN059848.D
Acq: 24 Jan 2020 16:17

Tgt Ion: 43 Resp: 418
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#

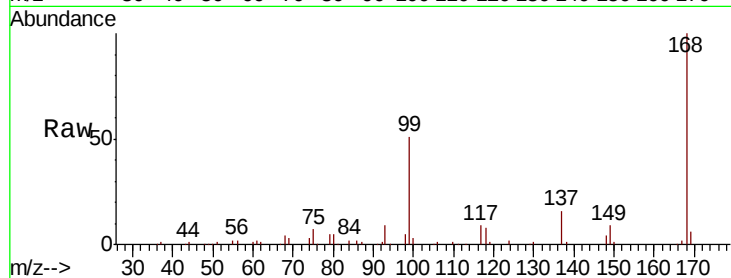




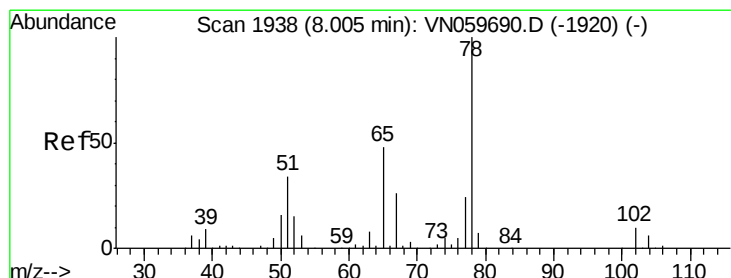
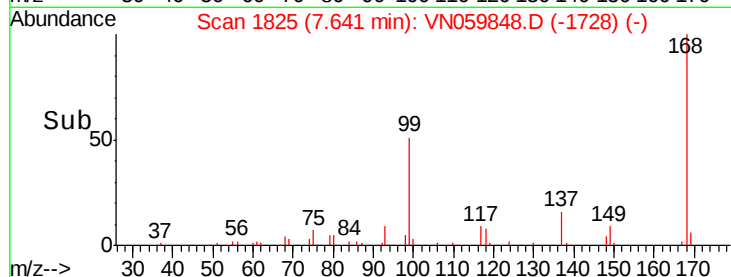
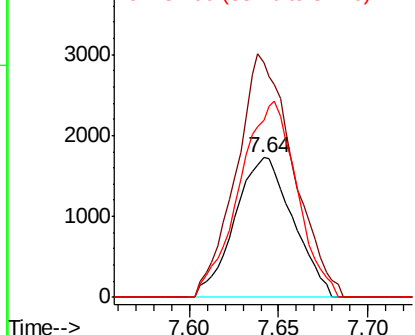
#31
Cyclohexane
Concen: 1.123 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059848.D
Acq: 24 Jan 2020 16:17

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 3937
Ion Ratio Lower Upper
56 100
69 168.3 26.5 39.7#
84 126.6 65.3 97.9#

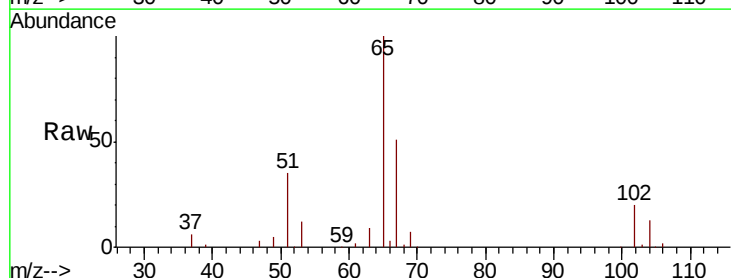


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

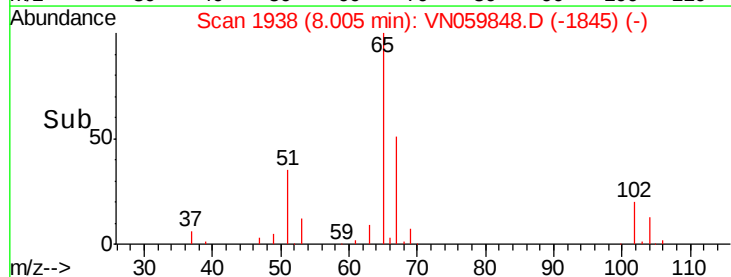
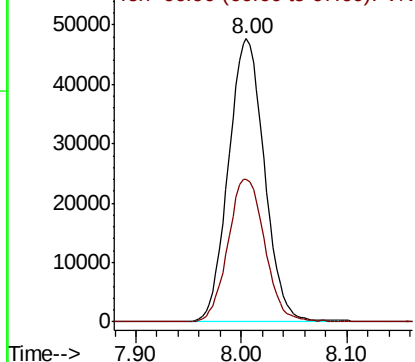


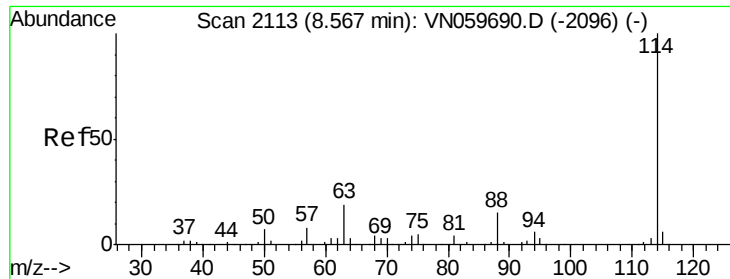
#33
1,2-Dichloroethane-d4
Concen: 47.582 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN059848.D
Acq: 24 Jan 2020 16:17

Tgt Ion: 65 Resp: 112766
Ion Ratio Lower Upper
65 100
67 51.6 0.0 103.0



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

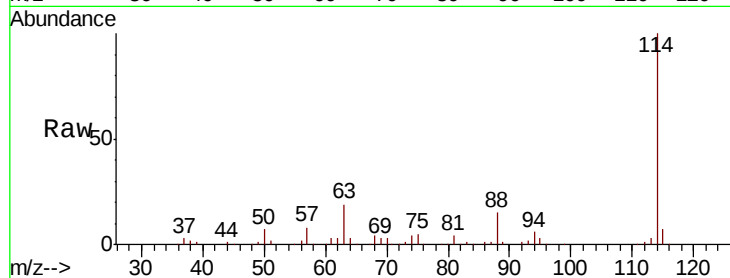




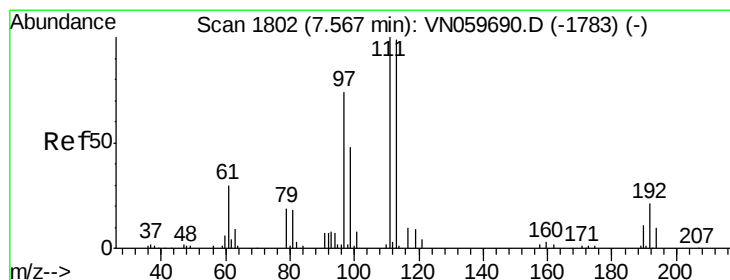
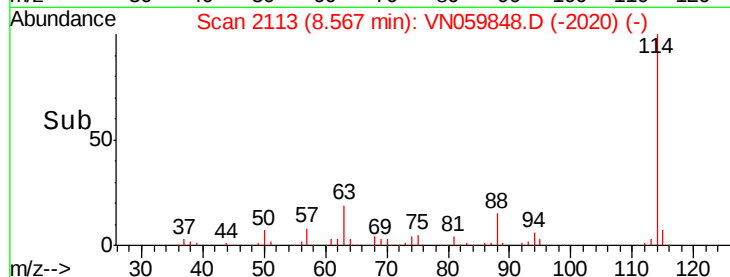
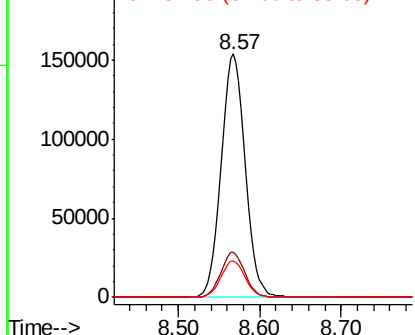
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059848.D
 Acq: 24 Jan 2020 16:17

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 321845
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 43.6
 88 15.0 0.0 31.4

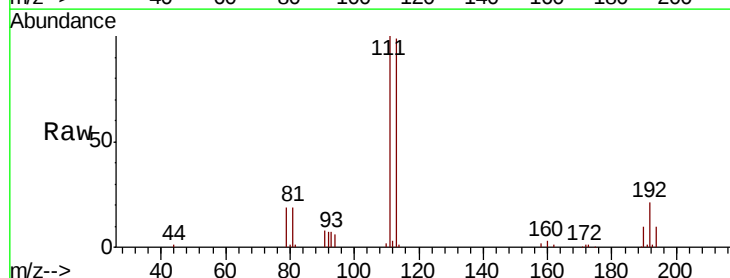


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

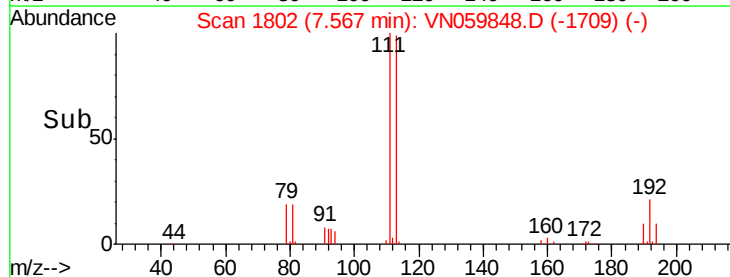
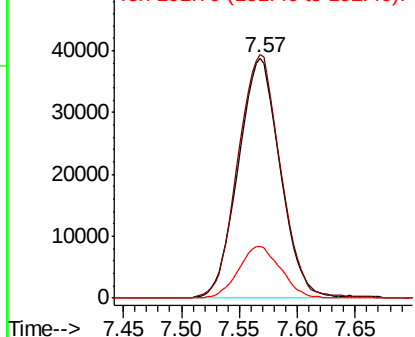


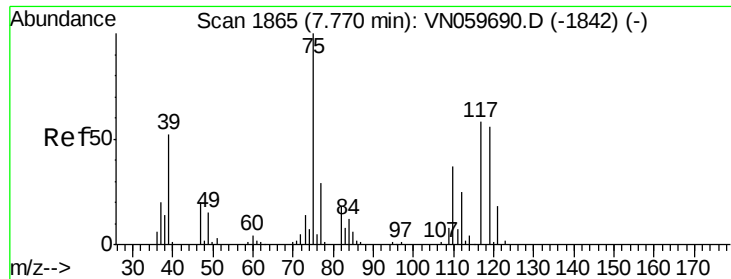
#35
 Dibromofluoromethane
 Concen: 50.840 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059848.D
 Acq: 24 Jan 2020 16:17

Tgt Ion:113 Resp: 97578
 Ion Ratio Lower Upper
 113 100
 111 103.3 83.5 125.3
 192 21.6 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

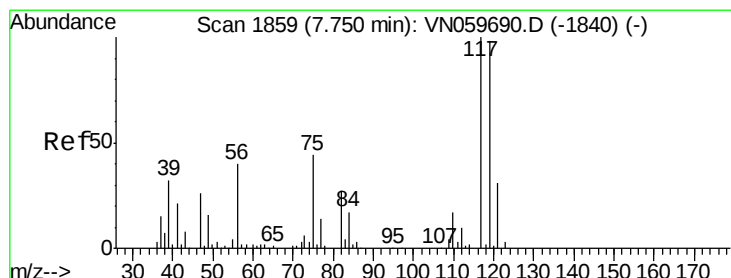
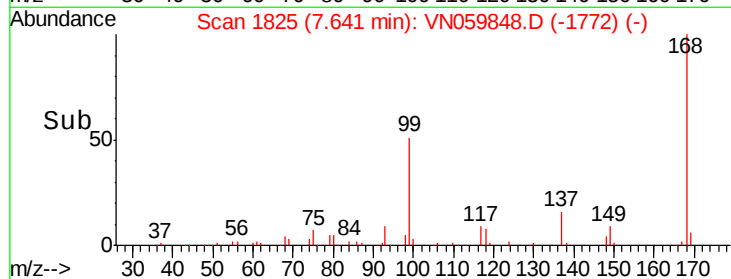
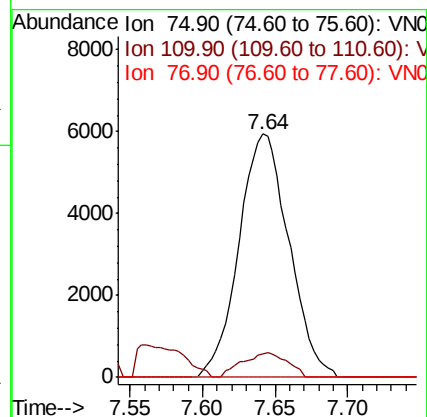
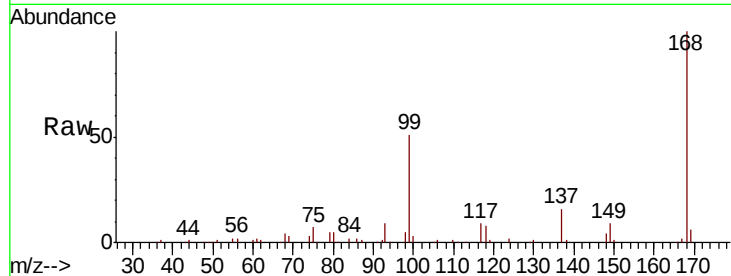




#36
 1,1-Dichloropropene
 Concen: 5.077 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059848.D
 Acq: 24 Jan 2020 16:17

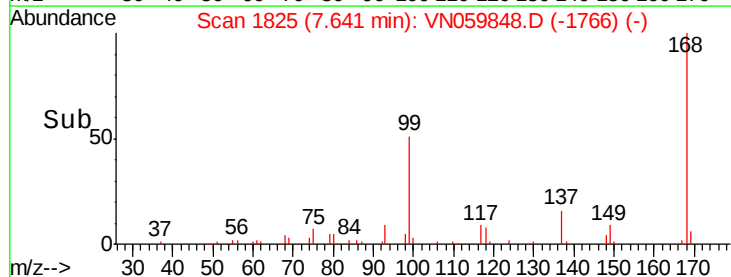
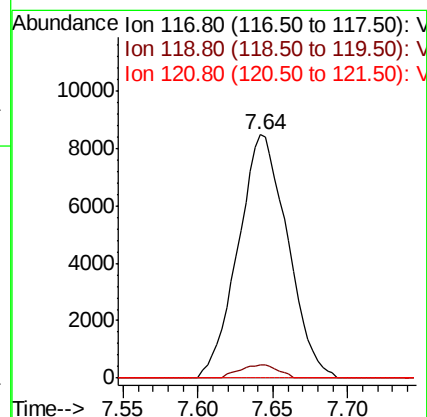
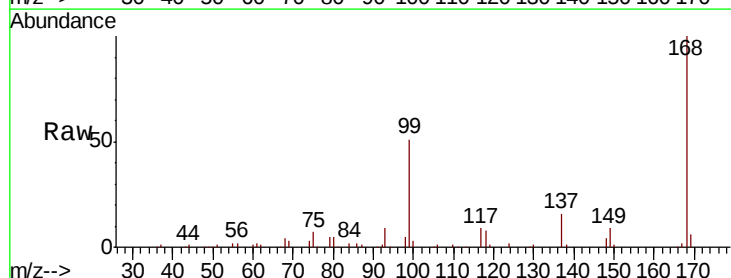
Instrument :
 MSVOA_N
 ClientSampleId :

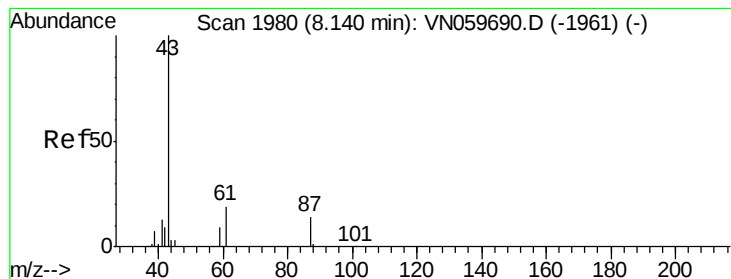
Tot Ion	75	Resp	14229
Ion Ratio	Lower	Upper	
75	100		
110	9.1	16.6	49.7#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.404 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059848.D
 Acq: 24 Jan 2020 16:17

Tgt Ion	117	Resp	19524
Ion Ratio	Lower	Upper	
117	100		
119	5.5	76.5	114.7#
121	0.0	25.1	37.7#





#43

Isopropyl Acetate

Concen: 9.803 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059848.D

Acq: 24 Jan 2020 16:17

Instrument :

MSVOA_N

ClientSampled :

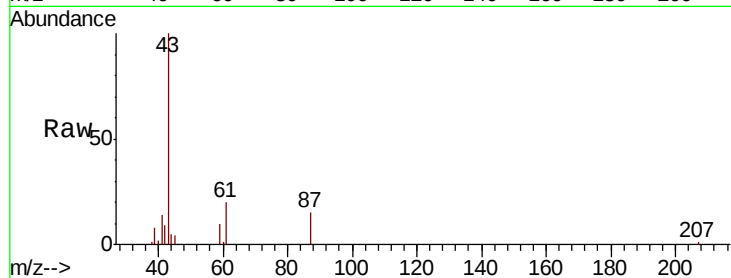
Tot Ion: 43 Resp: 44325

Ion Ratio Lower Upper

43 100

61 20.2 20.2 30.2

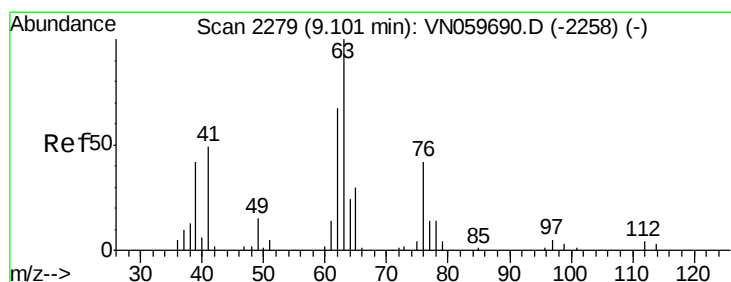
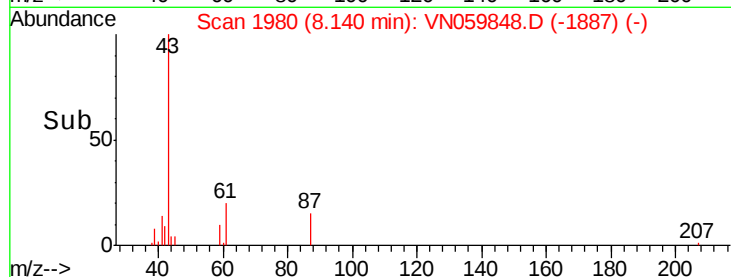
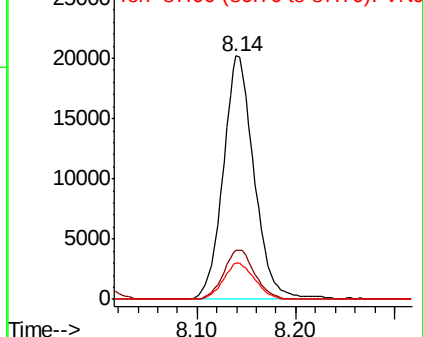
87 15.1 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-1961) (-)

Ion 61.00 (60.70 to 61.70): VN059690.D (-1961) (-)

Ion 87.00 (86.70 to 87.70): VN059690.D (-1961) (-)



#45

1,2-Dichloropropane

Concen: 0.410 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059848.D

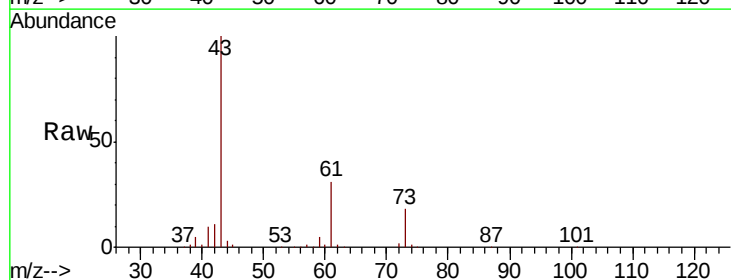
Acq: 24 Jan 2020 16:17

Tgt Ion: 63 Resp: 848

Ion Ratio Lower Upper

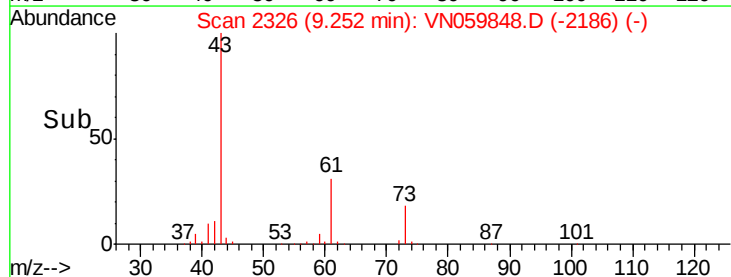
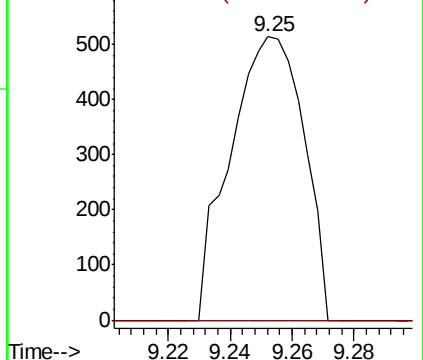
63 100

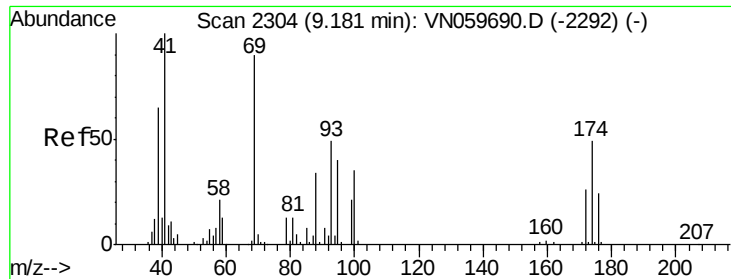
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059690.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN059690.D (-2258) (-)

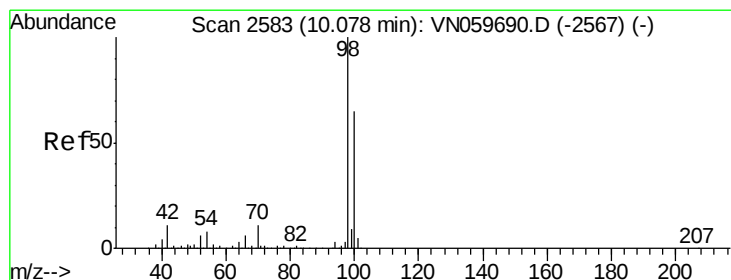
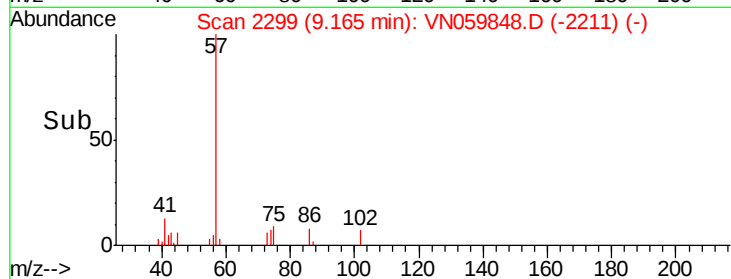
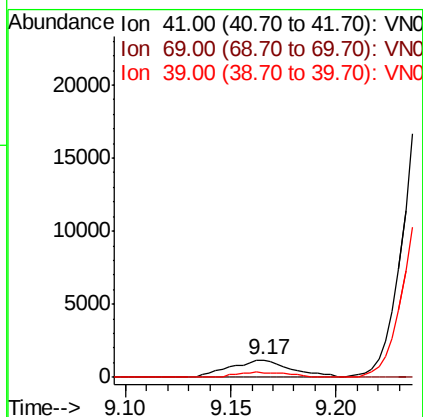
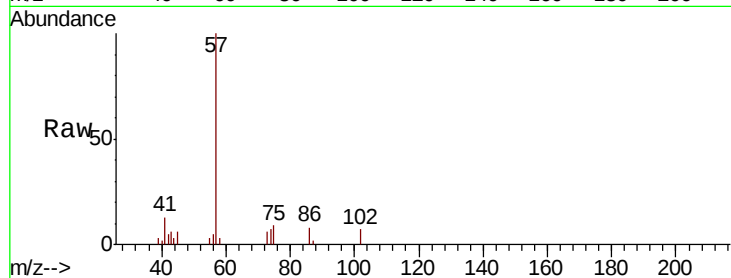




#48
Methvl methacrylate
Concen: 1.161 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN059848.D
Acq: 24 Jan 2020 16:17

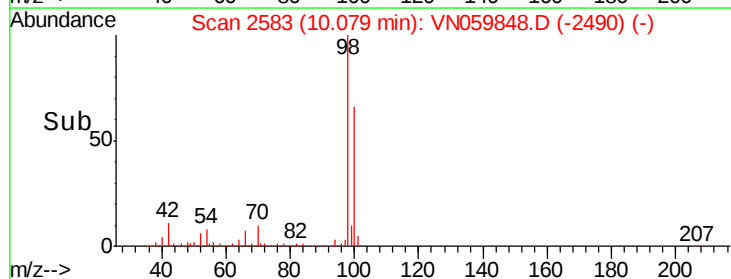
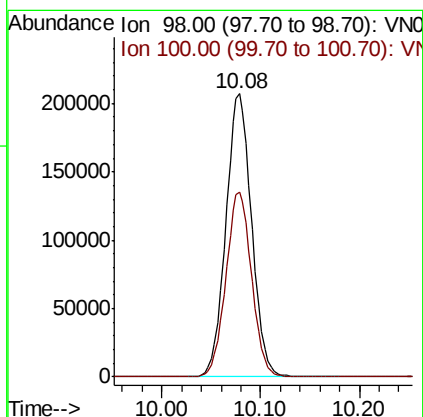
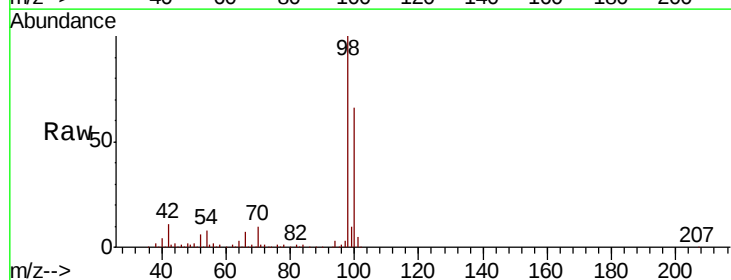
Instrument :
MSVOA_N
ClientSampleId :

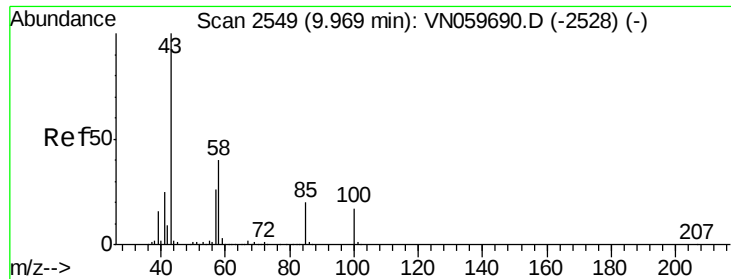
Tot Ion: 41 Resp: 2349
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 50.751 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059848.D
Acq: 24 Jan 2020 16:17

Tgt Ion: 98 Resp: 377399
Ion Ratio Lower Upper
98 100
100 65.2 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.219 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN059848.D

Acq: 24 Jan 2020 16:17

Instrument :

MSVOA_N

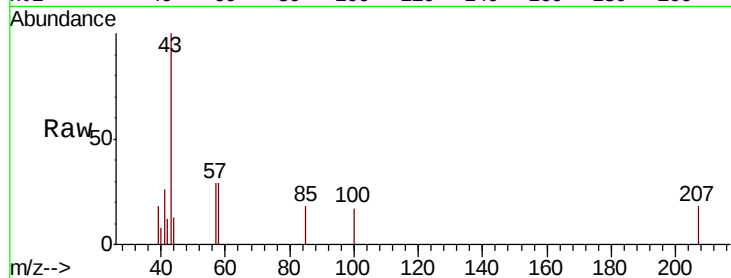
ClientSampled :

Tot Ion: 43 Resp: 3187

Ion Ratio Lower Upper

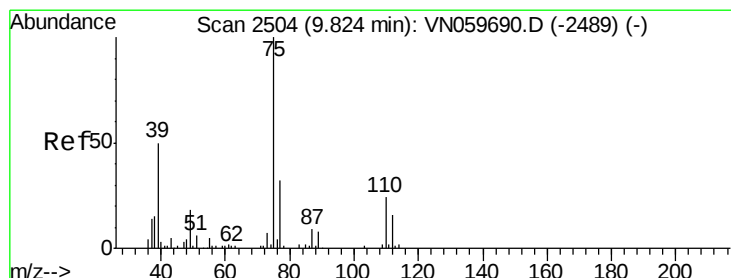
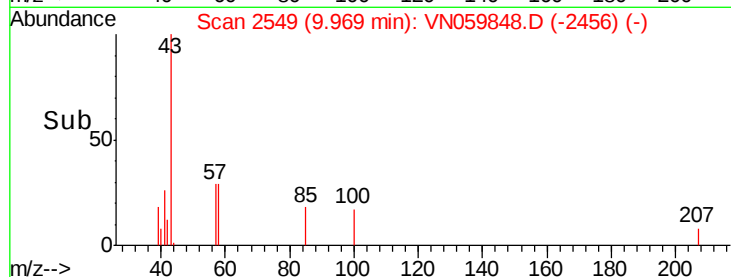
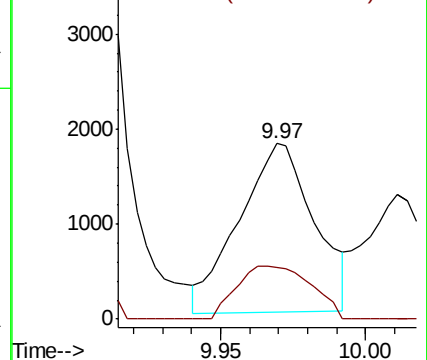
43 100

58 31.3 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.358 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059848.D

Acq: 24 Jan 2020 16:17

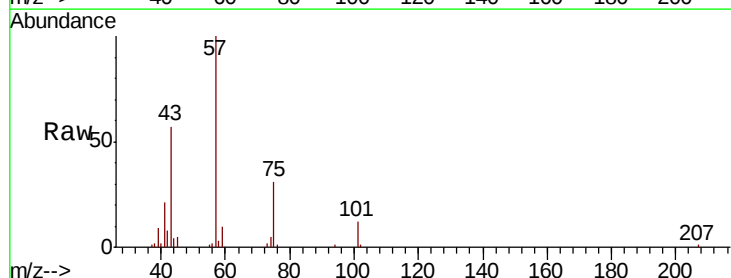
Tgt Ion: 75 Resp: 21964

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

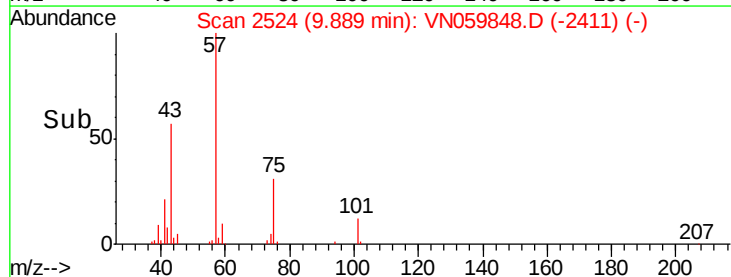
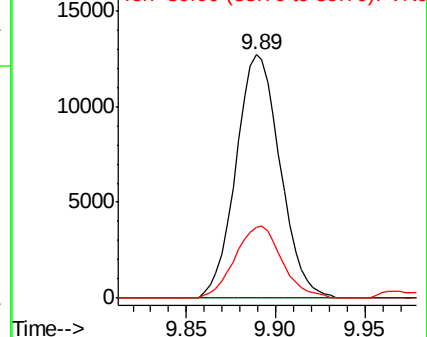
39 29.1 46.1 69.1#

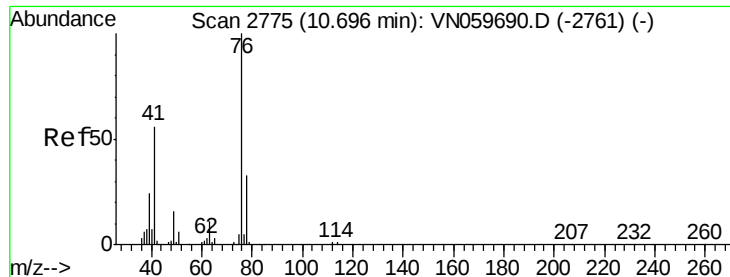


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

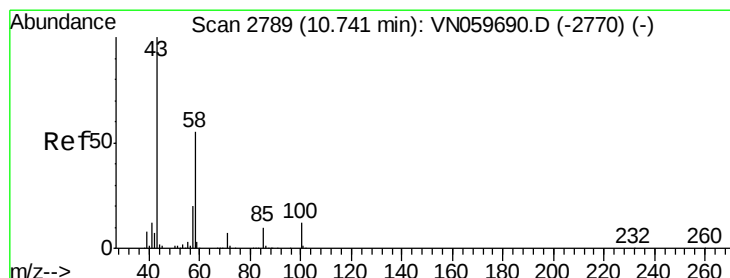
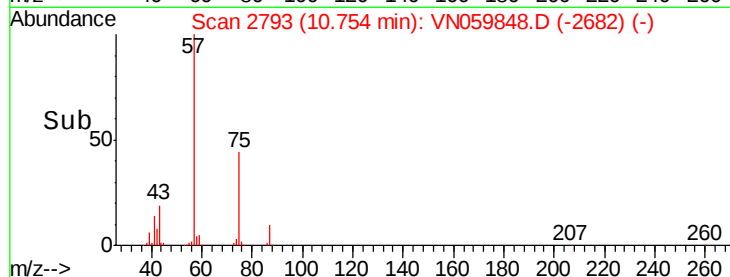
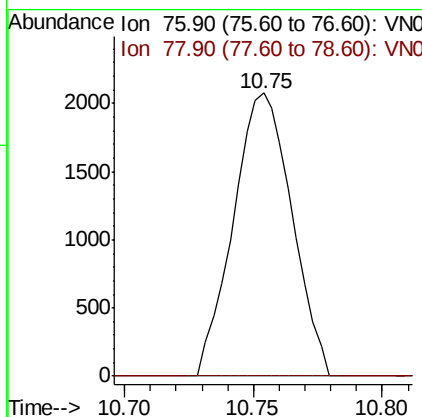
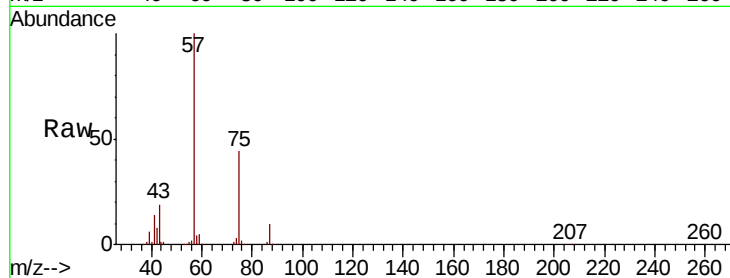




#57
 1,3-Dichloropropane
 Concen: 0.990 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059848.D
 Acq: 24 Jan 2020 16:17

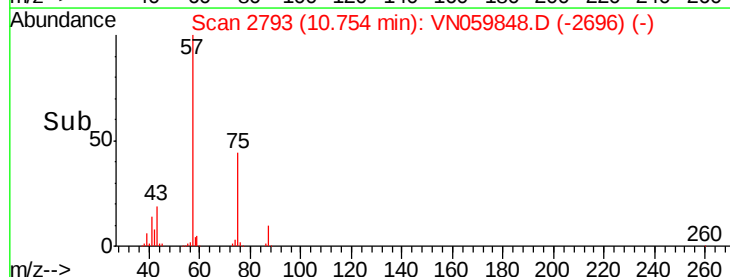
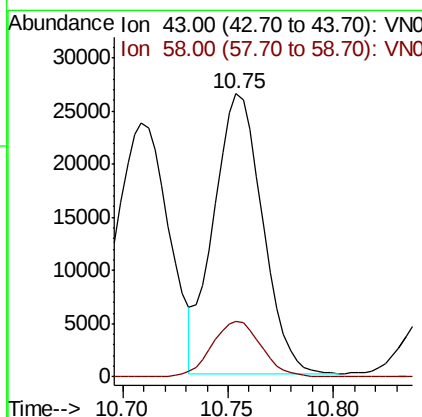
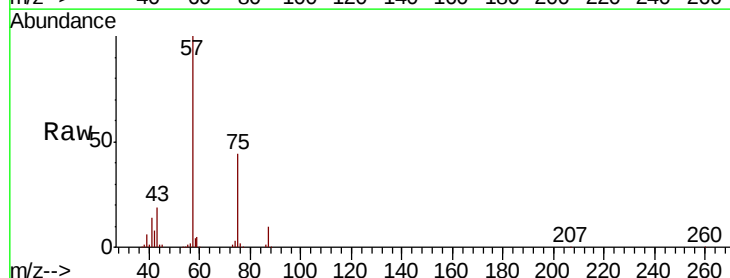
Instrument :
 MSVOA_N
 ClientSampleId :

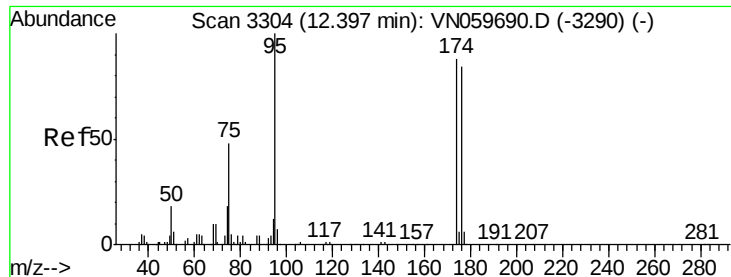
Tot Ion: 76 Resp: 3287
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 22.008 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059848.D
 Acq: 24 Jan 2020 16:17

Tgt Ion: 43 Resp: 42378
 Ion Ratio Lower Upper
 43 100
 58 20.0 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 48.195 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059848.D

Acq: 24 Jan 2020 16:17

Instrument :

MSVOA_N

ClientSampled :

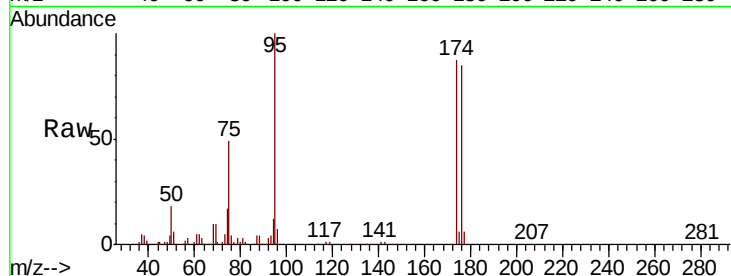
Tot Ion: 95 Resp: 129200

Ion Ratio Lower Upper

95 100

174 87.3 0.0 151.4

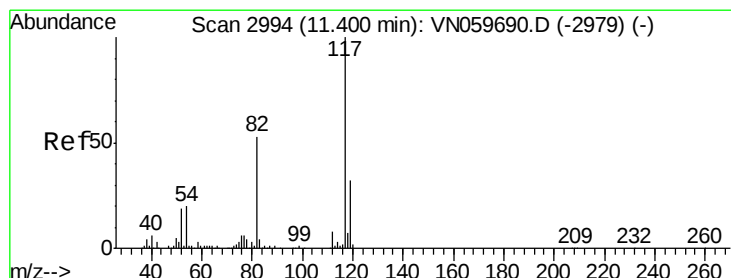
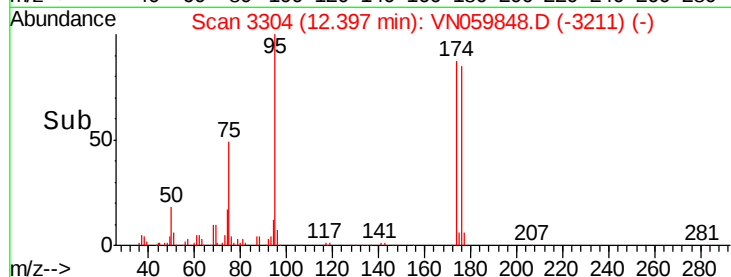
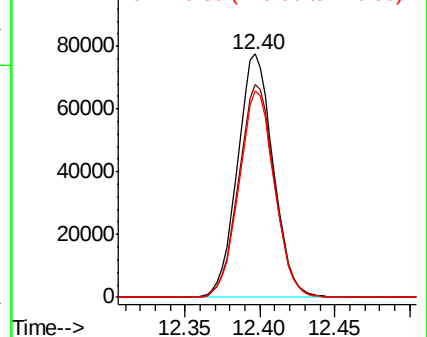
176 84.5 0.0 146.0



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: VN059848.D

Acq: 24 Jan 2020 16:17

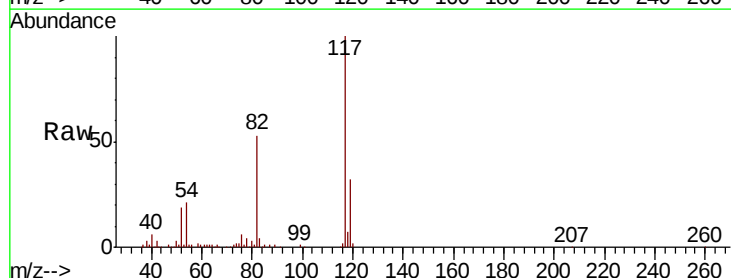
Tgt Ion: 117 Resp: 287681

Ion Ratio Lower Upper

117 100

82 53.3 45.9 68.9

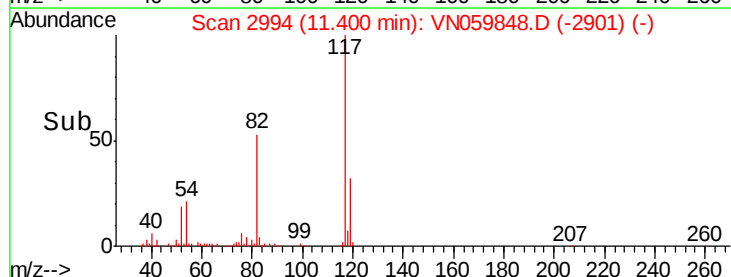
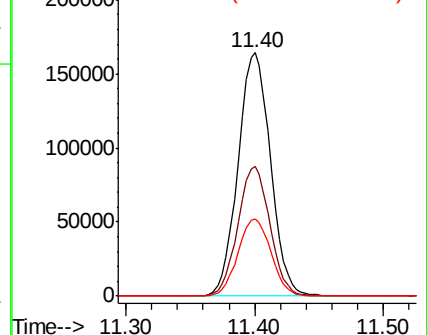
119 31.9 25.5 38.3

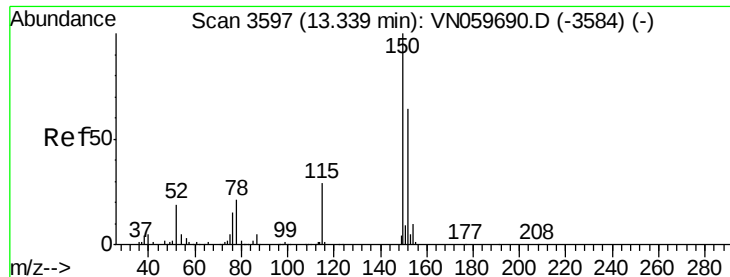


Abundance Ion 116.90 (116.60 to 117.60): VN059690.D (-2979) (-)

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

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059848.D

Acq: 24 Jan 2020 16:17

Instrument :

MSVOA_N

ClientSampled :

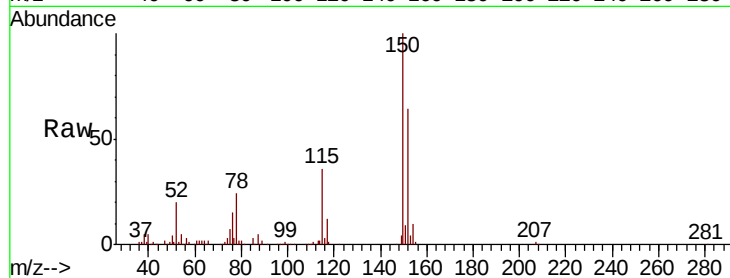
Tot Ion:152 Resp: 121786

Ion Ratio Lower Upper

152 100

115 57.0 30.3 90.9

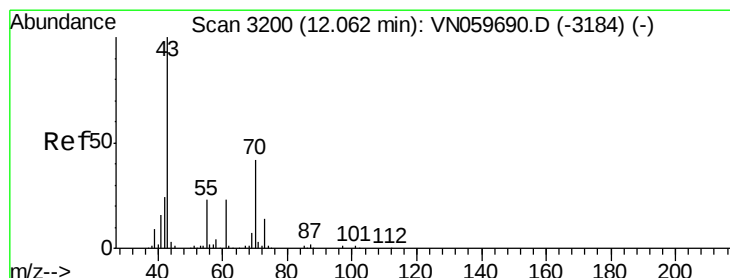
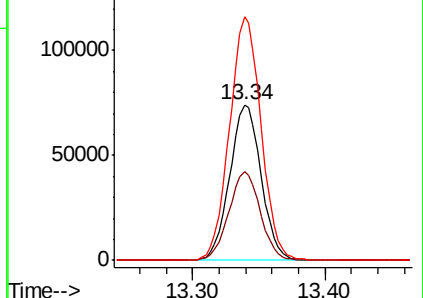
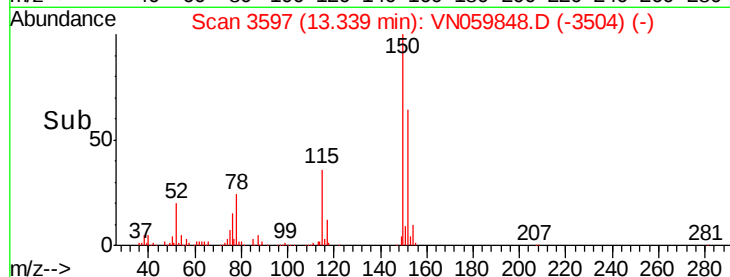
150 157.8 0.0 345.2



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: 0.672 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN059848.D

Acq: 24 Jan 2020 16:17

Tgt Ion: 43 Resp: 2328

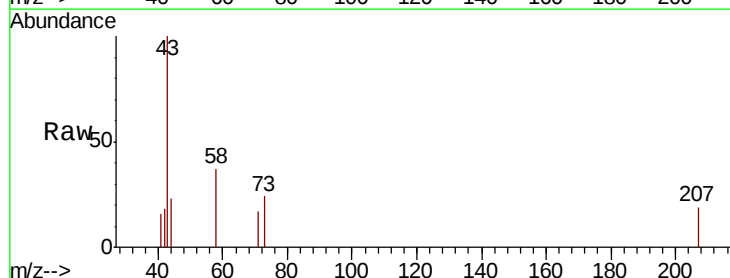
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

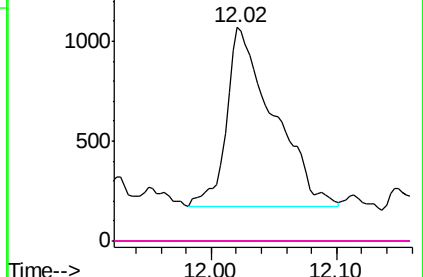
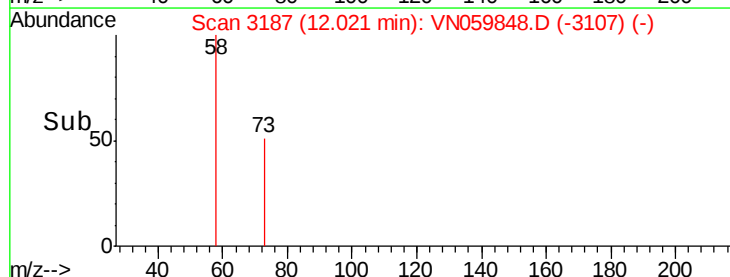


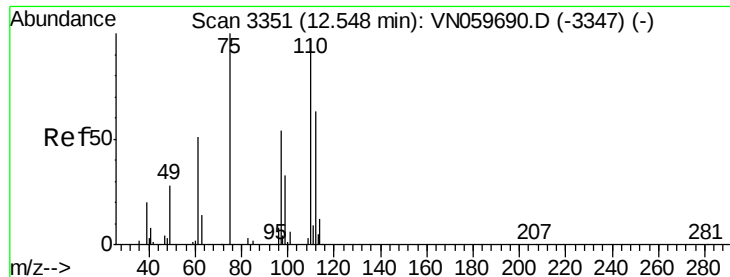
Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 31.125 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059848.D

Acq: 24 Jan 2020 16:17

Instrument :

MSVOA_N

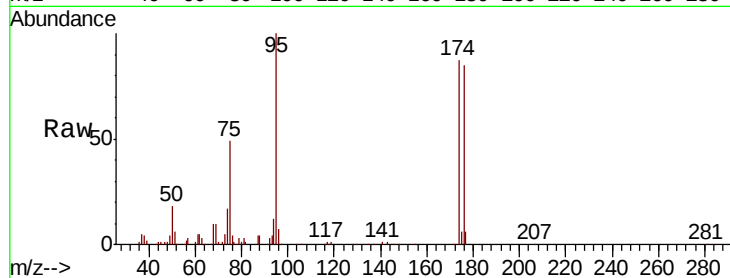
ClientSampled :

Tot Ion: 75 Resp: 63792

Ion Ratio Lower Upper

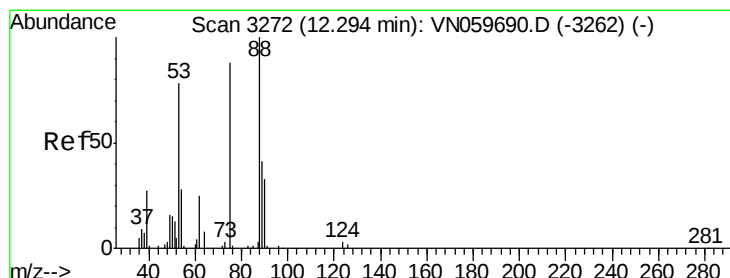
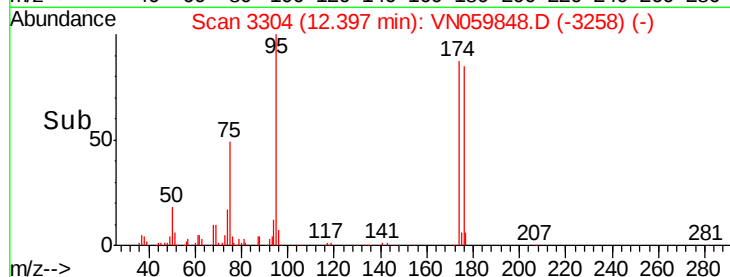
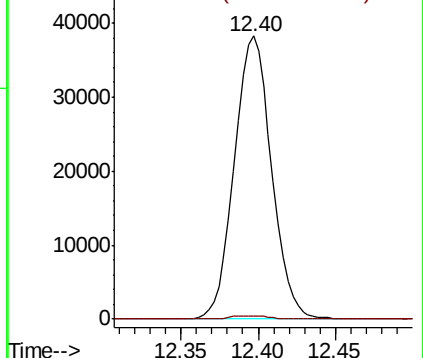
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 66.841 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059848.D

Acq: 24 Jan 2020 16:17

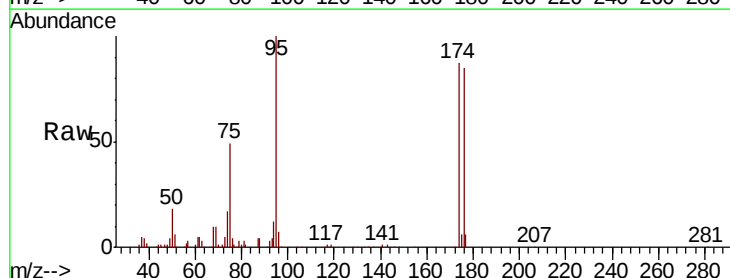
Tgt Ion: 75 Resp: 63792

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

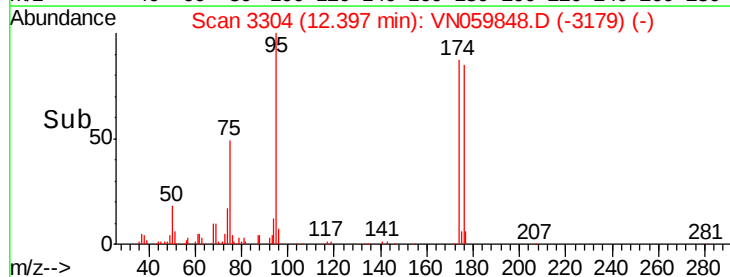
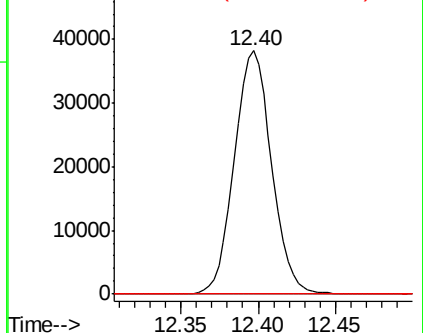
89 0.0 35.4 53.2#

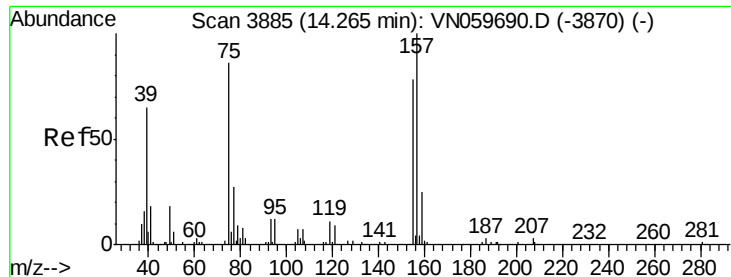


Abundance Ion 74.90 (74.60 to 75.60): VNO

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: 14.29 min Scan# 3892

Delta R.T. 0.02 min

Lab File: VN059848.D

Acq: 24 Jan 2020 16:17

Instrument :

MSVOA_N

ClientSampleId :

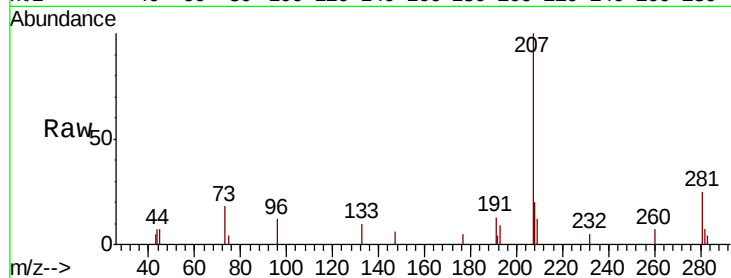
Tot Ion: 75 Resp: 63

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): VN059848.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN059848.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN059848.D (-3791) (-)

