

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012120\
 Data File : VN059808.D
 Acq On : 21 Jan 2020 13:44
 Operator : JC/MD
 Sample : L1210-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 22 02:45:58 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	203031	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	304523	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	272706	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	117024	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	107145	47.52	ug/l	0.00
Spiked Amount						
			Recovery	=	95.04%	
35) Dibromofluoromethane	7.57	113	91588	50.43	ug/l	0.00
Spiked Amount						
			Recovery	=	100.86%	
50) Toluene-d8	10.08	98	360248	51.20	ug/l	0.00
Spiked Amount						
			Recovery	=	102.40%	
62) 4-Bromofluorobenzene	12.40	95	121353	47.84	ug/l	0.00
Spiked Amount						
			Recovery	=	95.68%	

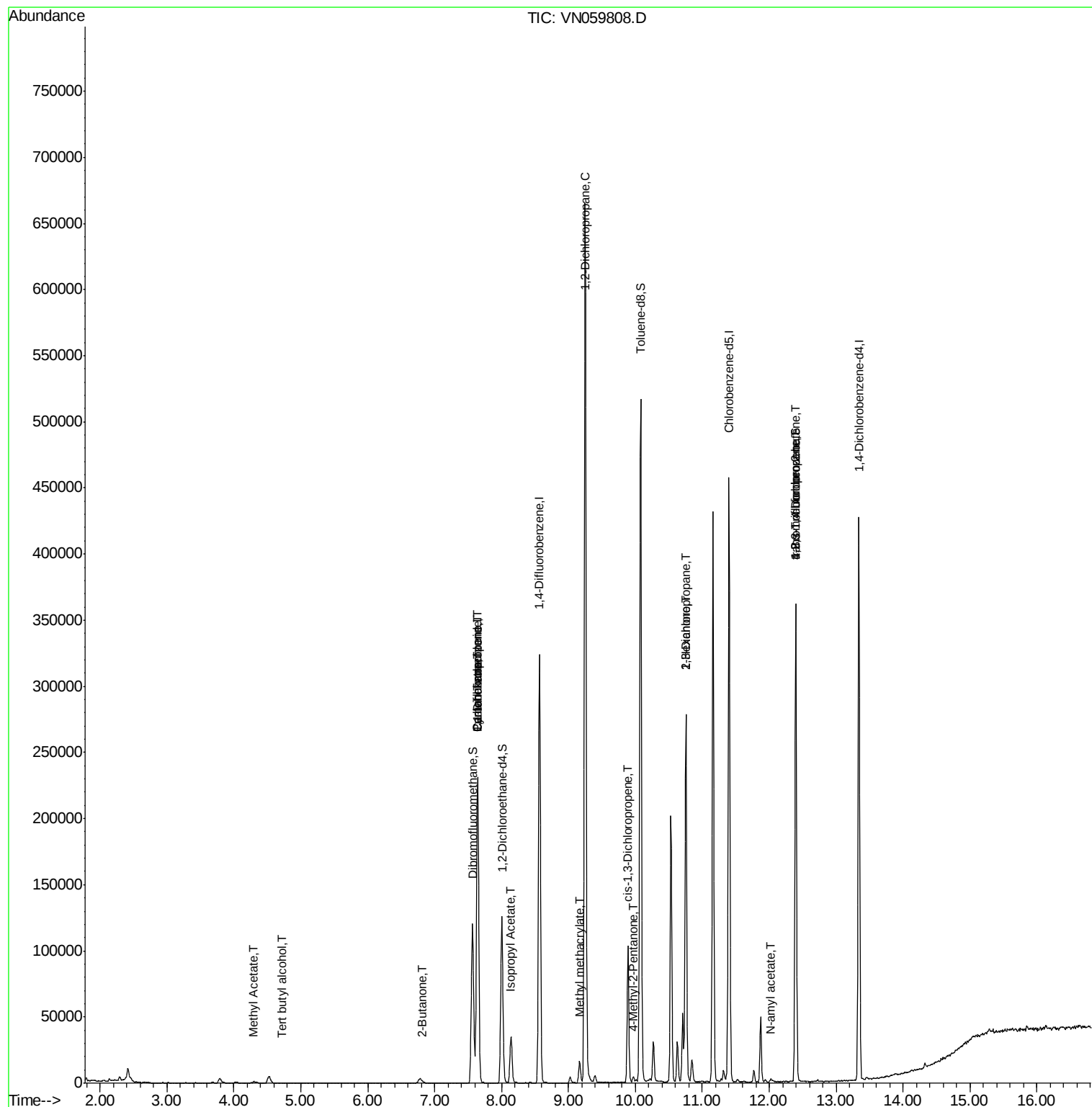
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	91	0.240	ug/l #	72
16) Acetone	3.79	43	6334	Below Cal		97
18) Methyl Acetate	4.30	43	2348	0.892	ug/l #	72
20) Methylene Chloride	4.52	84	2173	Below Cal		92
25) 2-Butanone	6.82	43	1597	1.251	ug/l #	79
31) Cyclohexane	7.64	56	3910	1.172	ug/l #	5
36) 1,1-Dichloropropene	7.64	75	13379	5.045	ug/l #	51
38) Carbon Tetrachloride	7.64	117	18605	6.450	ug/l #	15
43) Isopropyl Acetate	8.14	43	42227	9.870	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	666	0.340	ug/l #	44
48) Methyl methacrylate	9.17	41	2395	1.252	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3642	1.473	ug/l #	86
54) cis-1,3-Dichloropropene	9.89	75	20050	6.134	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	2977	0.948	ug/l #	42
59) 2-Hexanone	10.75	43	39034	21.425	ug/l #	55
74) N-amyl acetate	12.03	43	2023	0.607	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	61462	31.209	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	61462	67.020	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.24	75	59	Below Cal	#	6

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

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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: VN059808.D

Acq: 21 Jan 2020 13:44

Instrument :

MSVOA_N

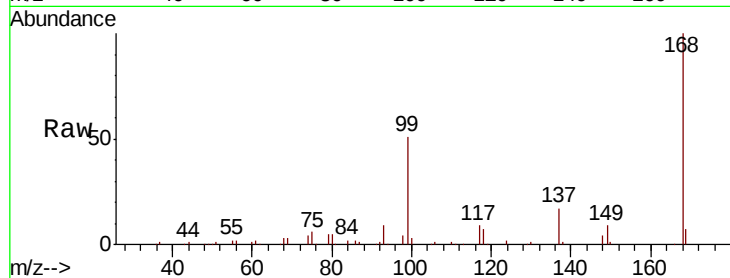
ClientSampleId :

Tot Ion:168 Resp: 203031

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): VNO

7.64

80000

60000

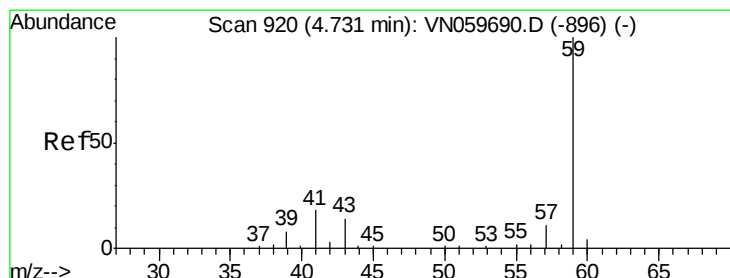
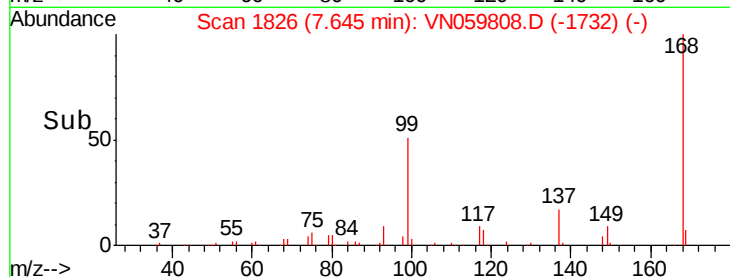
40000

20000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.240 ug/l

RT: 4.72 min Scan# 916

Delta R.T. -0.01 min

Lab File: VN059808.D

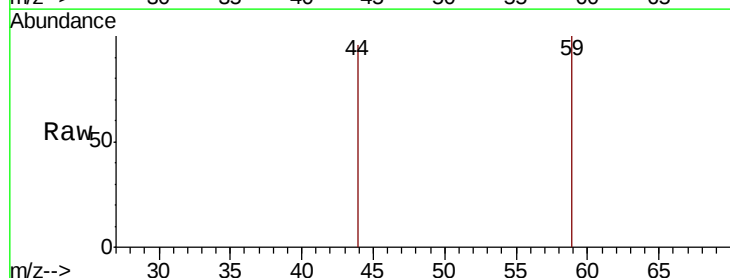
Acq: 21 Jan 2020 13:44

Tgt Ion: 59 Resp: 91

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.72

200

150

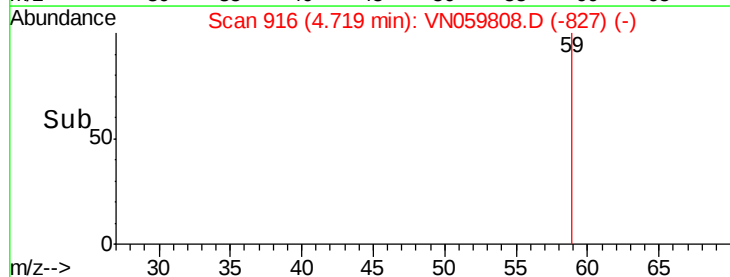
100

50

0

4.70 4.71 4.72 4.73

Time-->

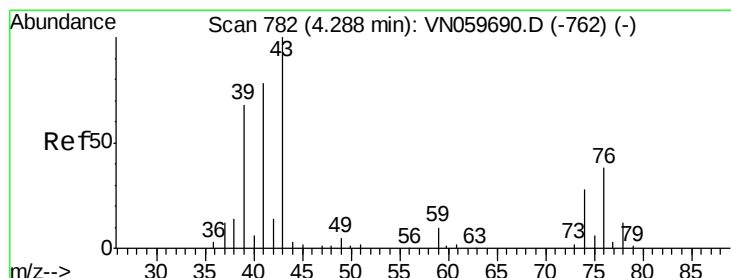
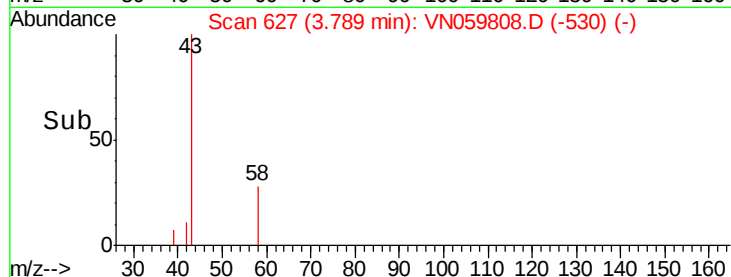
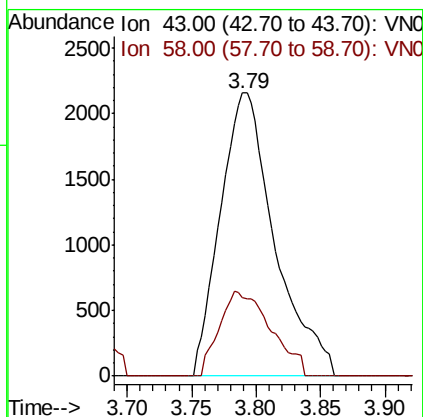
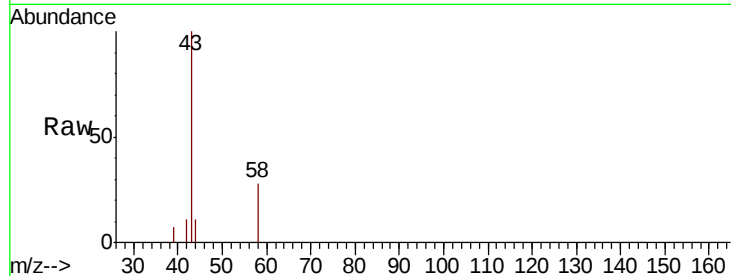




#16
Acetone
Concen: Below Cal
RT: 3.79 min Scan# 627
Delta R.T. 0.01 min
Lab File: VN059808.D
Acq: 21 Jan 2020 13:44

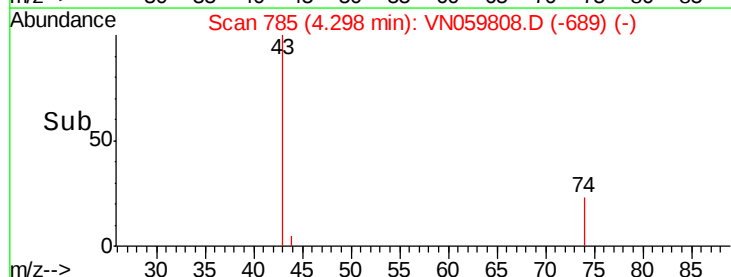
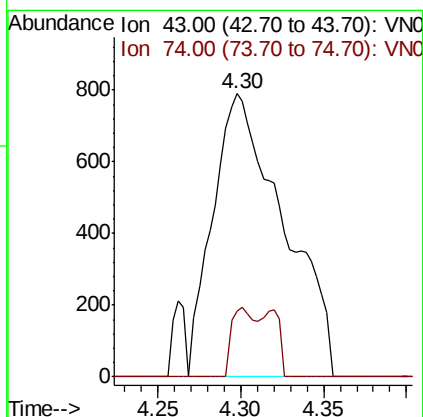
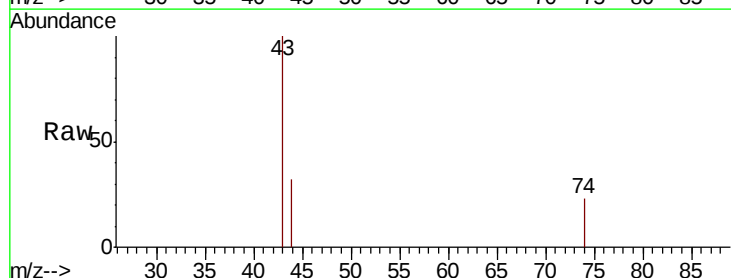
Instrument :
MSVOA_N
ClientSampleId :

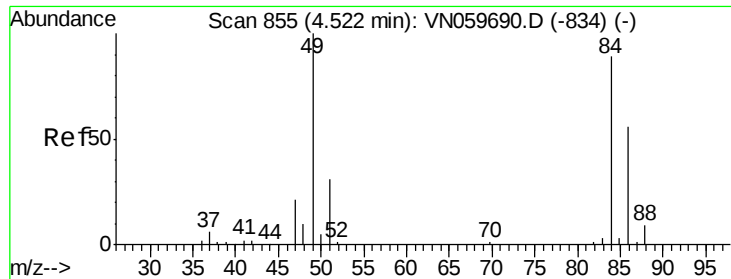
Tot Ion: 43 Resp: 6334
Ion Ratio Lower Upper
43 100
58 27.8 23.6 35.4



#18
Methyl Acetate
Concen: 0.892 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN059808.D
Acq: 21 Jan 2020 13:44

Tgt Ion: 43 Resp: 2348
Ion Ratio Lower Upper
43 100
74 8.4 17.5 26.3#

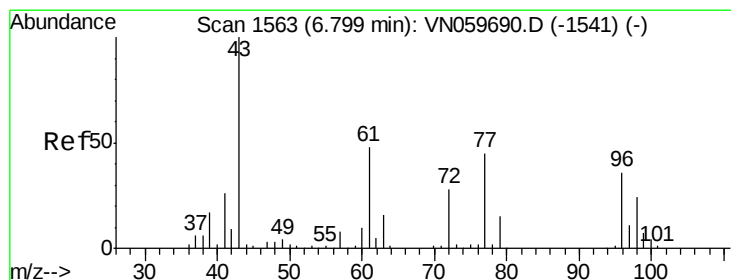
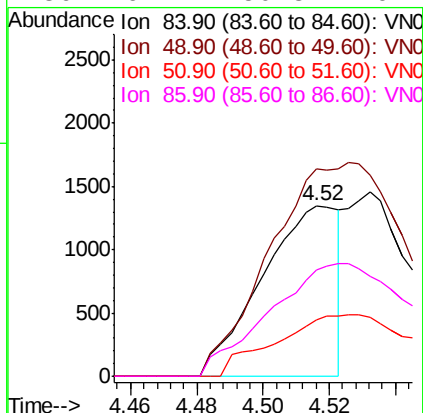
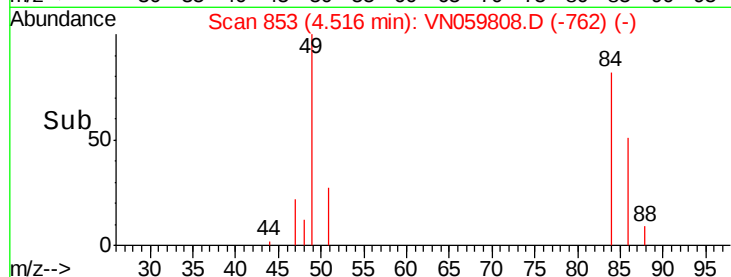
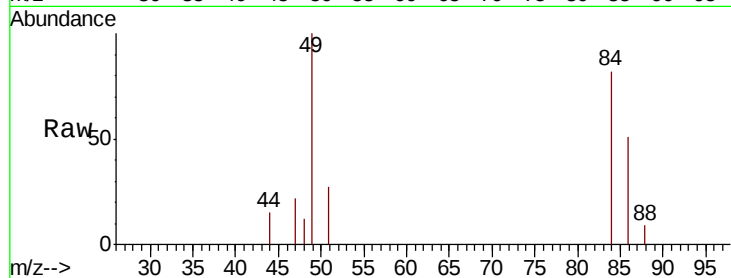




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN059808.D
Acq: 21 Jan 2020 13:44

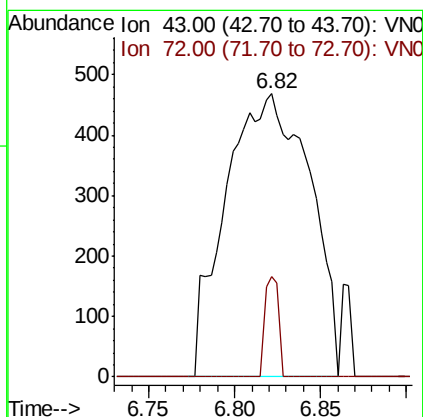
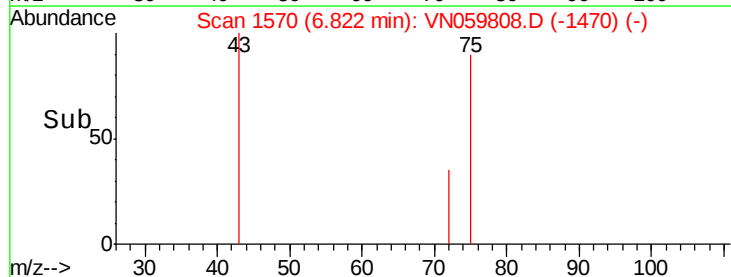
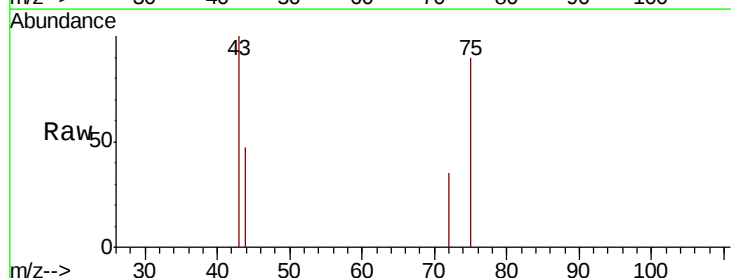
Instrument :
MSVOA_N
ClientSampled :

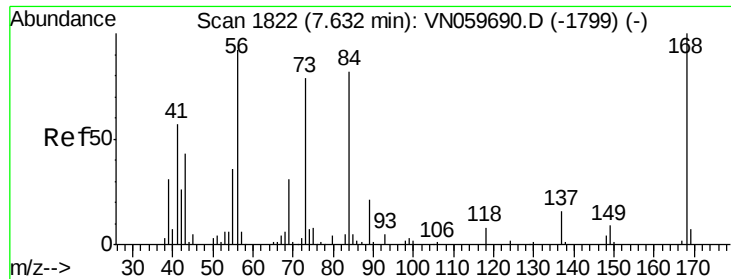
Tot Ion: 84 Resp: 2173
Ion Ratio Lower Upper
84 100
49 121.3 106.6 160.0
51 33.3 31.9 47.9
86 62.4 50.8 76.2



#25
2-Butanone
Concen: 1.251 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.02 min
Lab File: VN059808.D
Acq: 21 Jan 2020 13:44

Tgt Ion: 43 Resp: 1597
Ion Ratio Lower Upper
43 100
72 35.5 19.9 29.9#

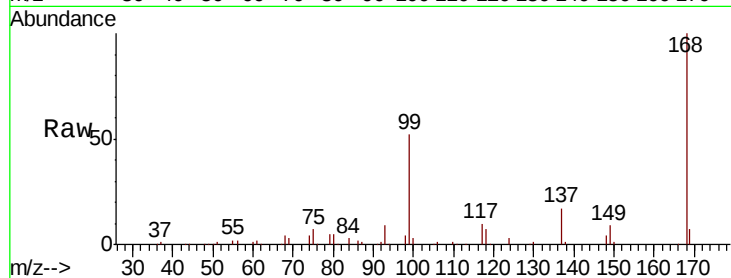




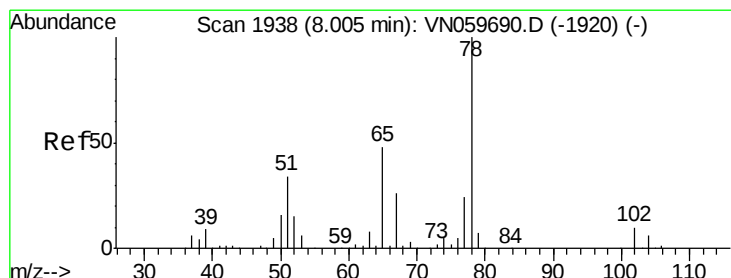
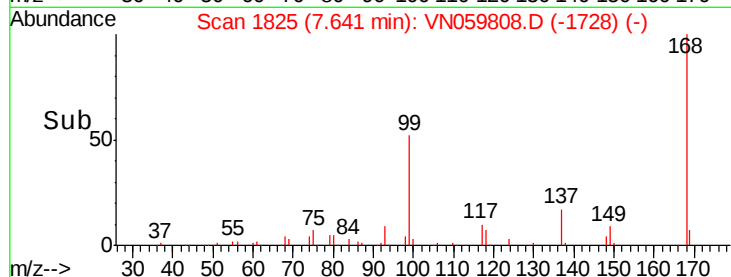
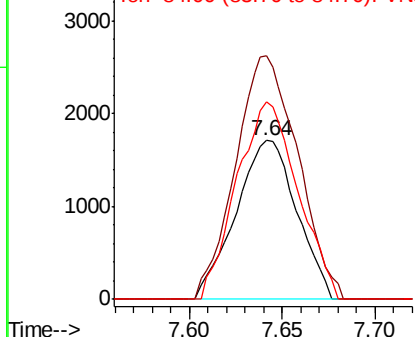
#31
Cyclohexane
Concen: 1.172 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059808.D
Acq: 21 Jan 2020 13:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 3910
Ion Ratio Lower Upper
56 100
69 153.1 26.5 39.7#
84 124.0 65.3 97.9#

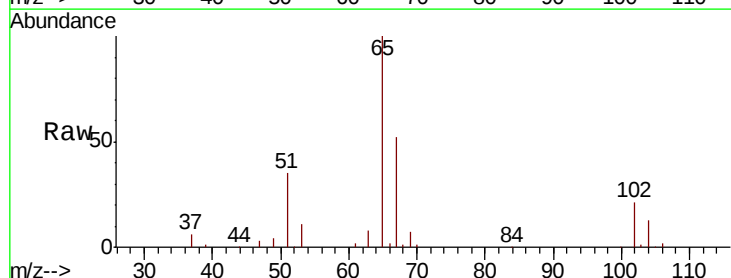


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

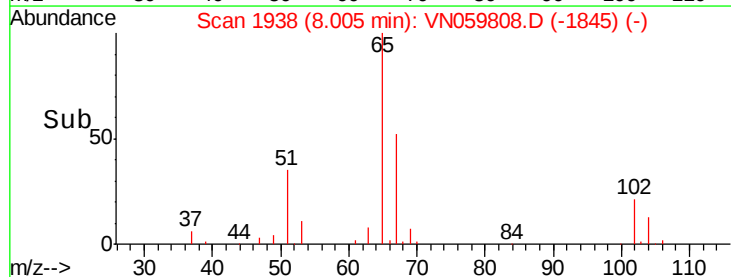
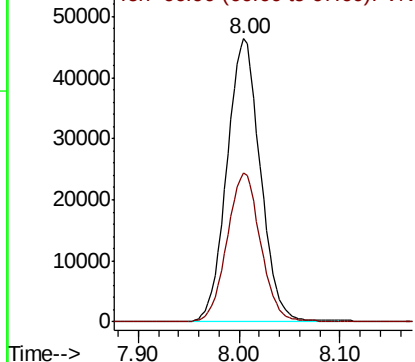


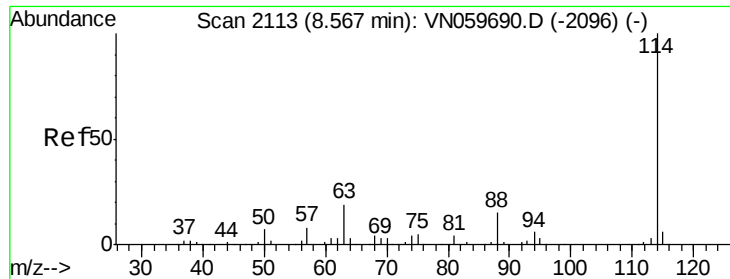
#33
1,2-Dichloroethane-d4
Concen: 47.521 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN059808.D
Acq: 21 Jan 2020 13:44

Tgt Ion: 65 Resp: 107145
Ion Ratio Lower Upper
65 100
67 52.6 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: VN059808.D

Acq: 21 Jan 2020 13:44

Instrument :

MSVOA_N

ClientSampleId :

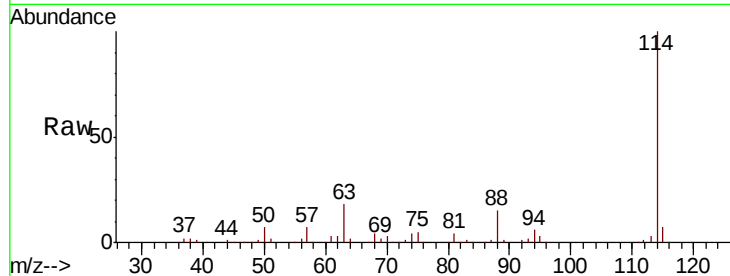
Tot Ion:114 Resp: 304523

Ion Ratio Lower Upper

114 100

63 18.1 0.0 43.6

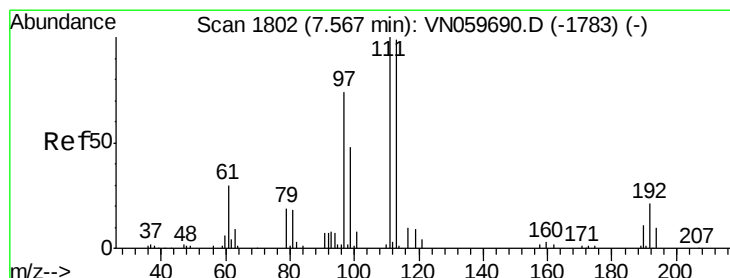
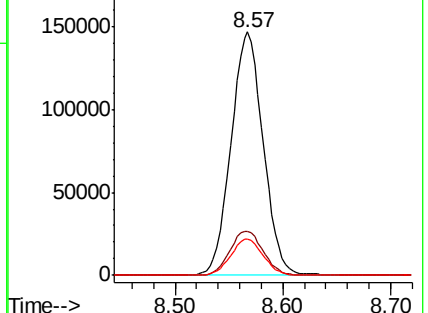
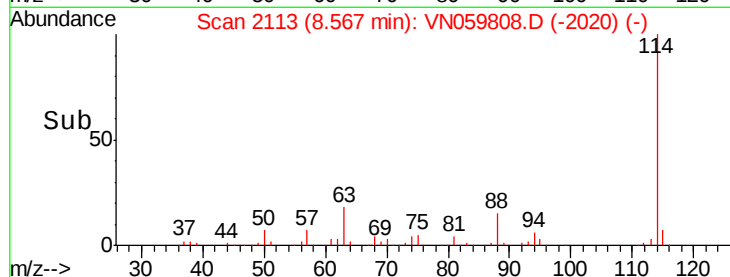
88 15.0 0.0 31.4



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: 50.434 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN059808.D

Acq: 21 Jan 2020 13:44

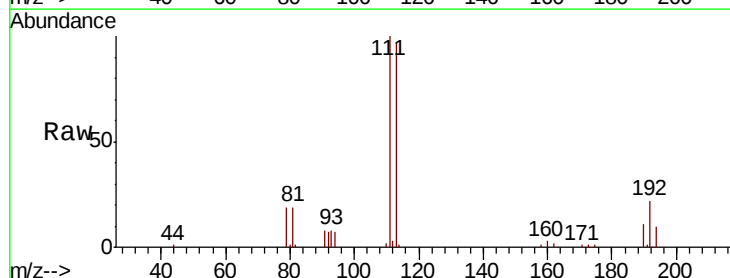
Tgt Ion:113 Resp: 91588

Ion Ratio Lower Upper

113 100

111 101.9 83.5 125.3

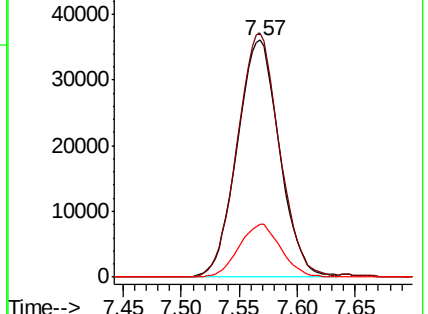
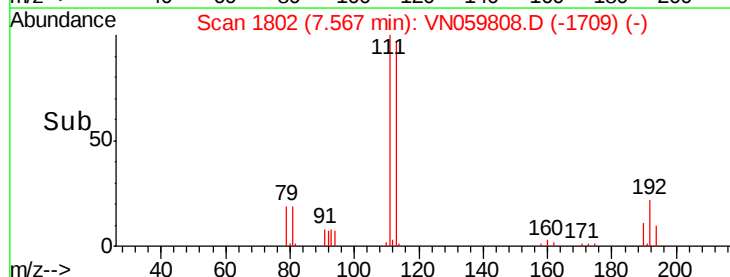
192 22.0 15.4 23.2

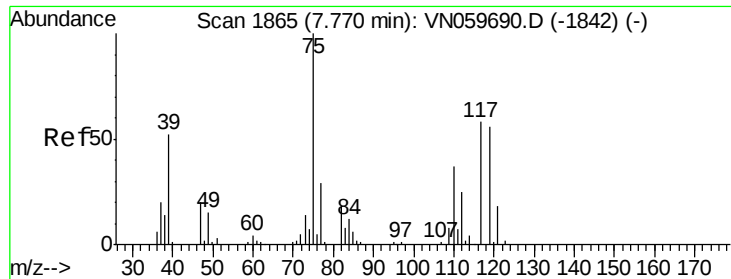


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

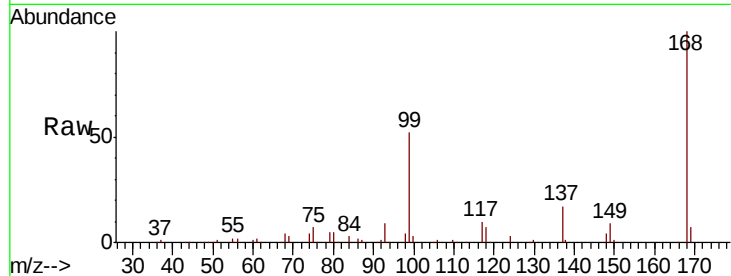




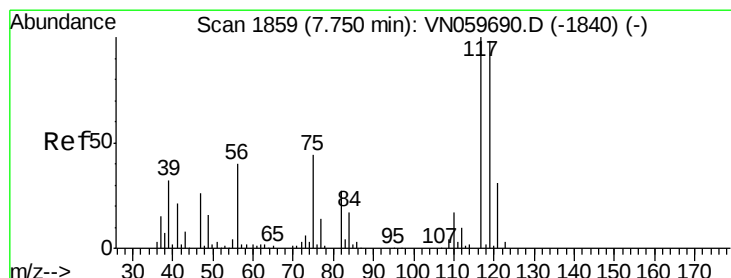
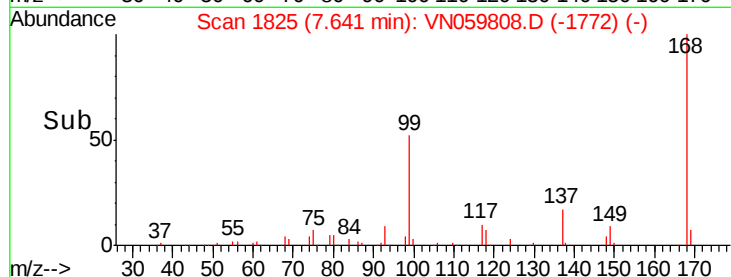
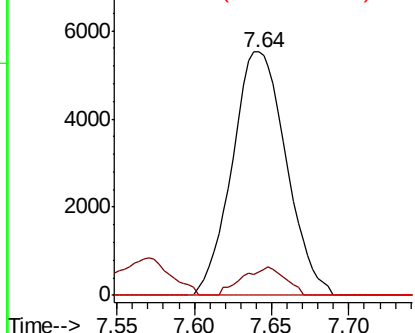
#36
 1,1-Dichloropropene
 Concen: 5.045 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059808.D
 Acq: 21 Jan 2020 13:44

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	75	Resp	13379
Ion Ratio	Lower	Upper	
75	100		
110	9.2	16.6	49.7#
77	0.0	25.1	37.7#

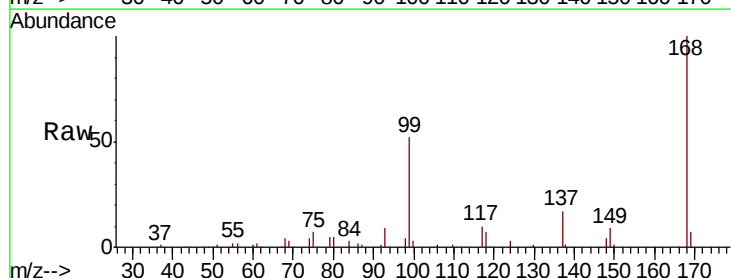


Abundance Ion 74.90 (74.60 to 75.60): VN059690.D (-1842) (-)
 Ion 109.90 (109.60 to 110.60): VN059690.D (-1842) (-)
 Ion 76.90 (76.60 to 77.60): VN059690.D (-1842) (-)

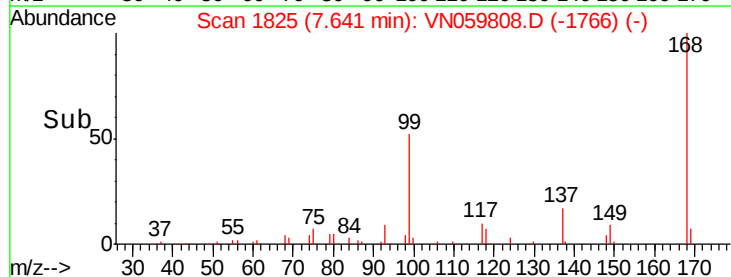
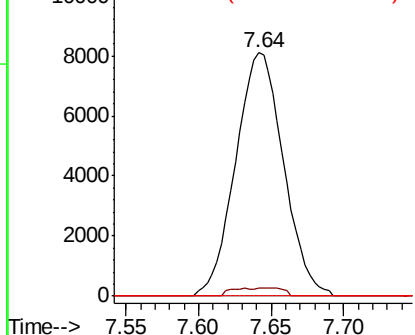


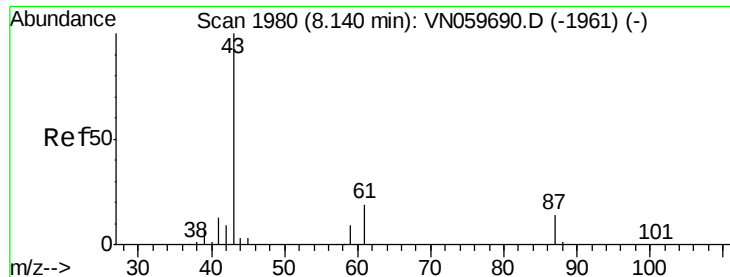
#38
 Carbon Tetrachloride
 Concen: 6.450 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059808.D
 Acq: 21 Jan 2020 13:44

Tgt Ion	117	Resp	18605
Ion Ratio	Lower	Upper	
117	100		
119	3.1	76.5	114.7#
121	0.0	25.1	37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN059690.D (-1840) (-)
 Ion 118.80 (118.50 to 119.50): VN059690.D (-1840) (-)
 Ion 120.80 (120.50 to 121.50): VN059690.D (-1840) (-)





#43

Isopropyl Acetate

Concen: 9.870 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059808.D

Acq: 21 Jan 2020 13:44

Instrument :

MSVOA_N

ClientSampleId :

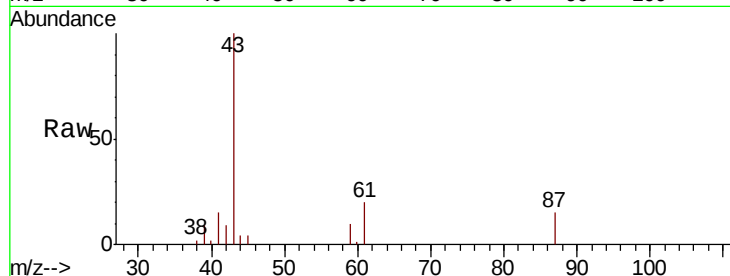
Tot Ion: 43 Resp: 42227

Ion Ratio Lower Upper

43 100

61 19.4 20.2 30.2#

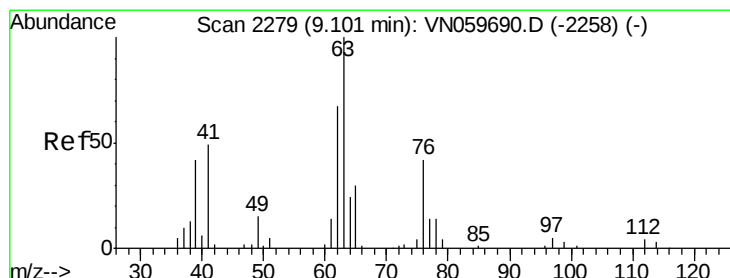
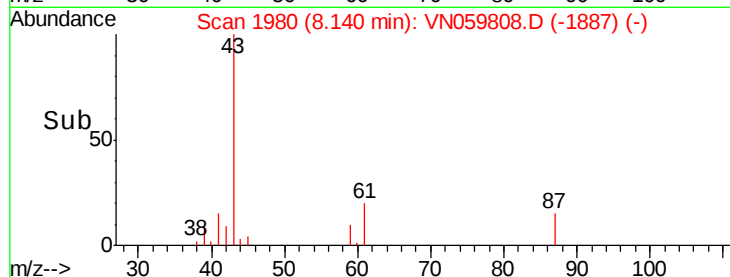
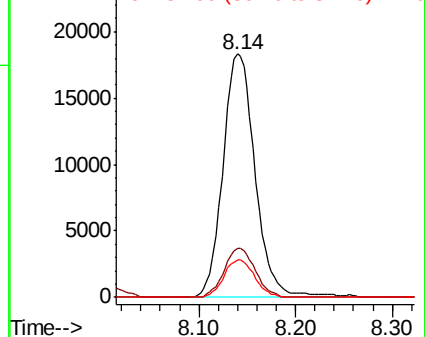
87 14.6 9.5 14.3#



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: 0.340 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN059808.D

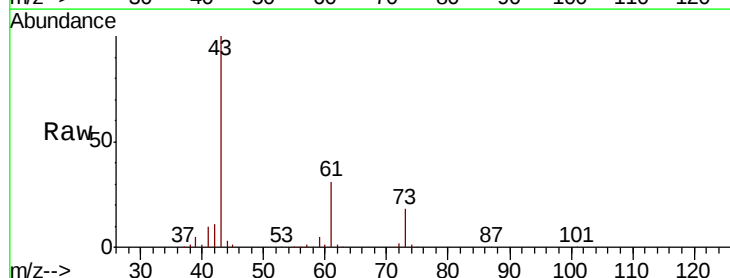
Acq: 21 Jan 2020 13:44

Tgt Ion: 63 Resp: 666

Ion Ratio Lower Upper

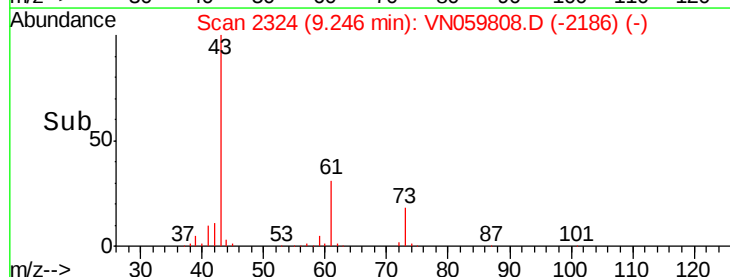
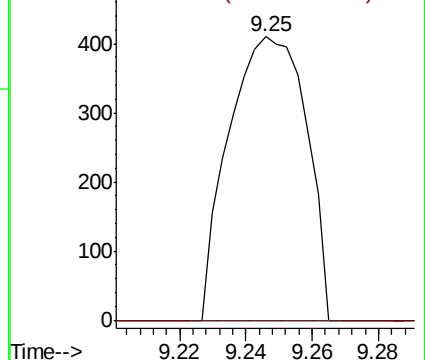
63 100

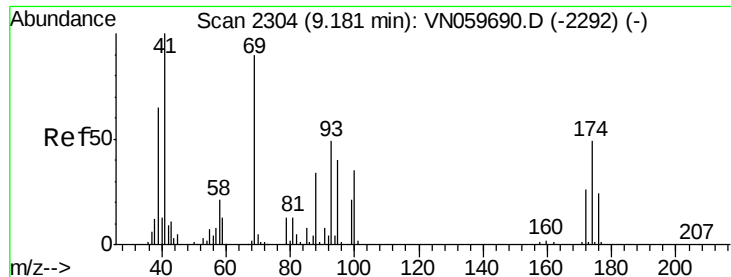
65 0.0 24.9 37.3#



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

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

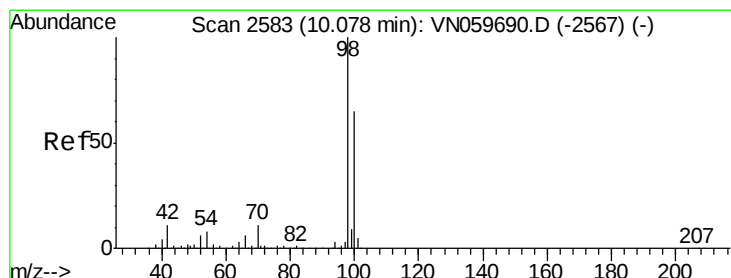
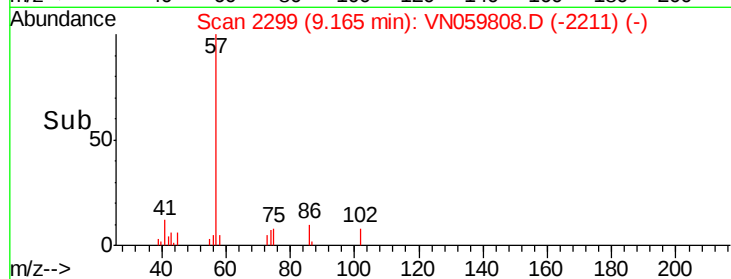
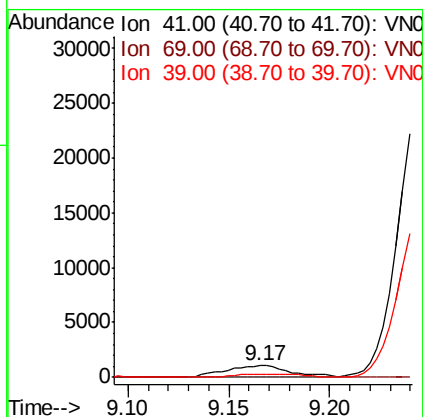
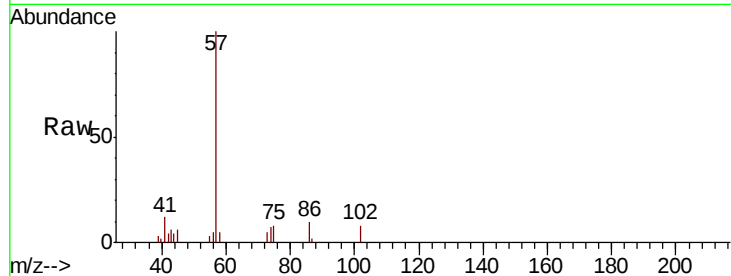




#48
Methvl methacrylate
Concen: 1.252 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN059808.D
Acq: 21 Jan 2020 13:44

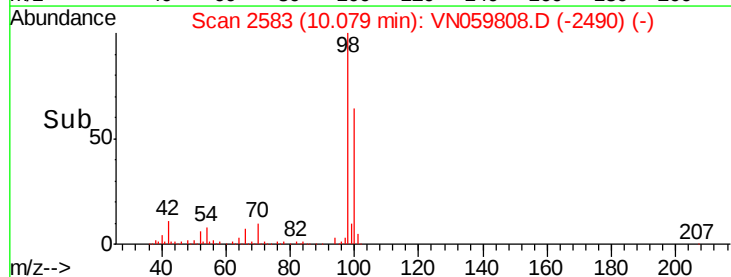
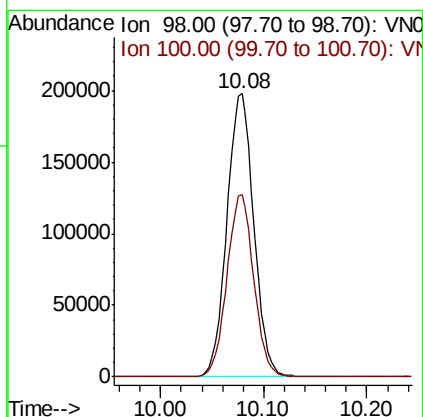
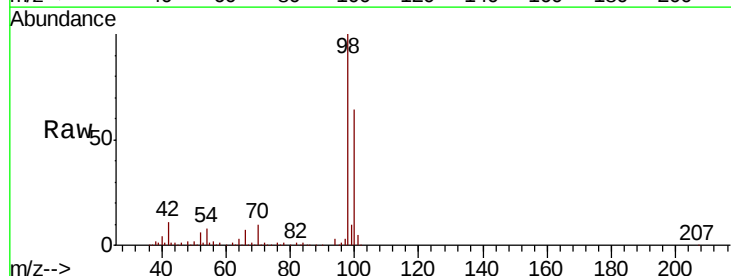
Instrument :
MSVOA_N
ClientSampleId :

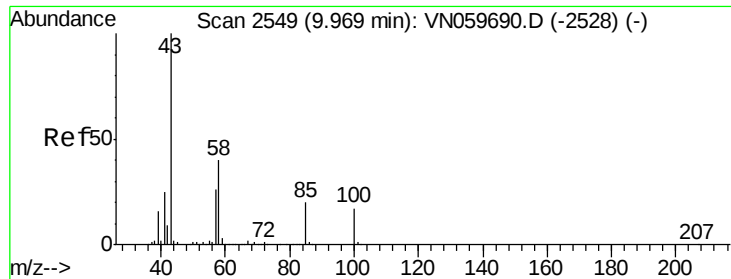
Tot Ion: 41 Resp: 2395
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 51.200 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059808.D
Acq: 21 Jan 2020 13:44

Tgt Ion: 98 Resp: 360248
Ion Ratio Lower Upper
98 100
100 64.0 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.473 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN059808.D

Acq: 21 Jan 2020 13:44

Instrument :

MSVOA_N

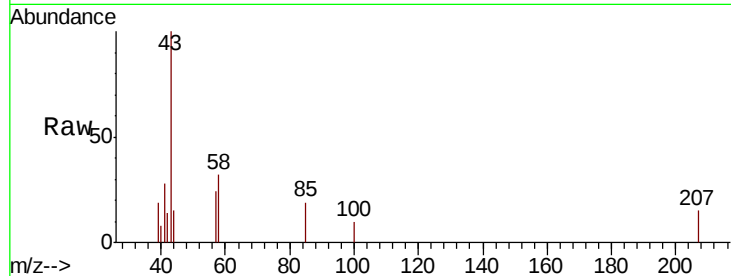
ClientSampleId :

Tot Ion: 43 Resp: 3642

Ion Ratio Lower Upper

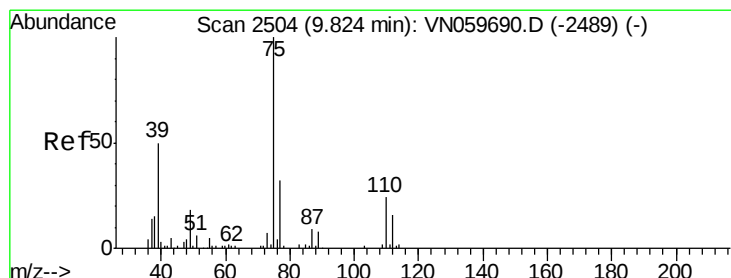
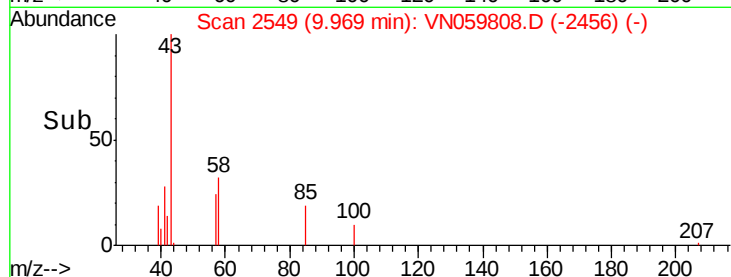
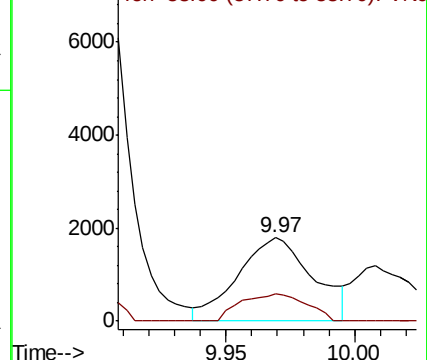
43 100

58 28.8 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: 6.134 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059808.D

Acq: 21 Jan 2020 13:44

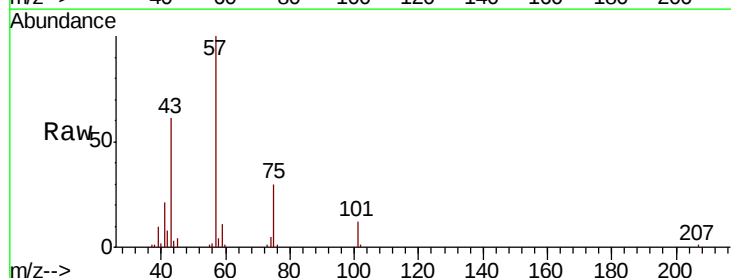
Tgt Ion: 75 Resp: 20050

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

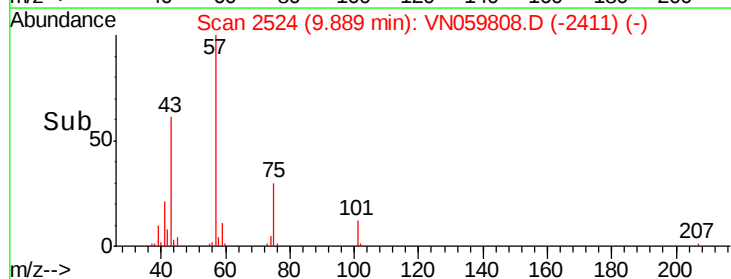
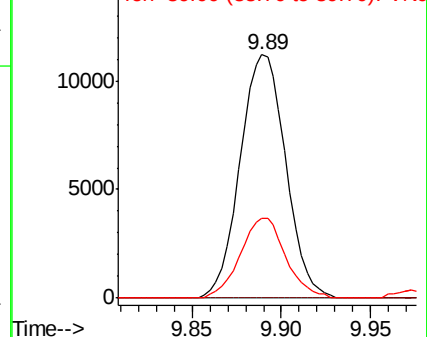
39 32.9 46.1 69.1#

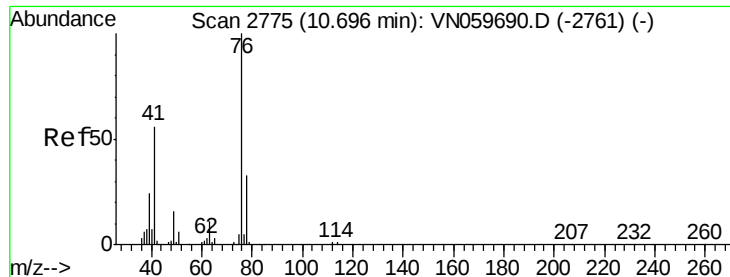


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

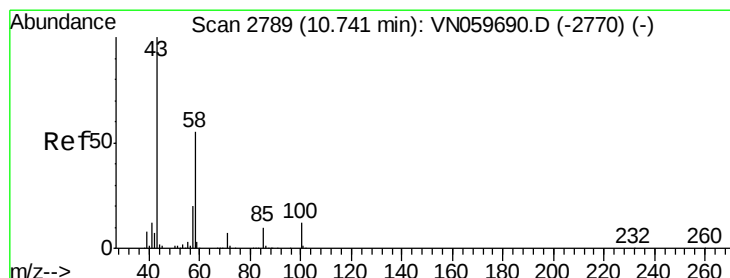
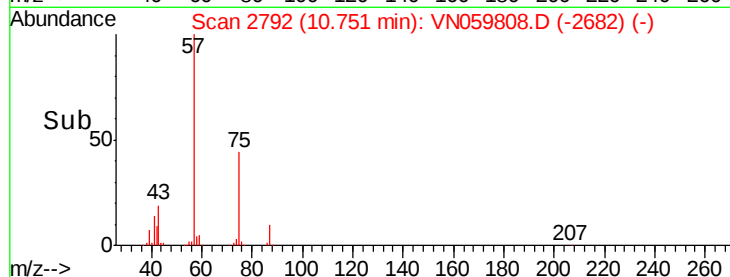
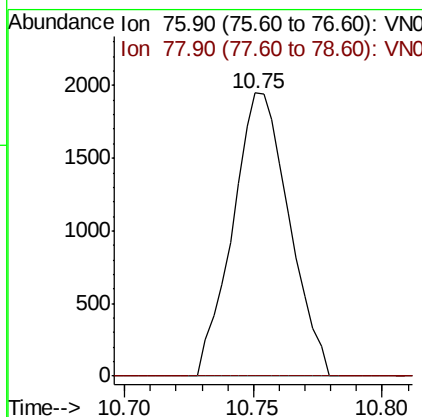
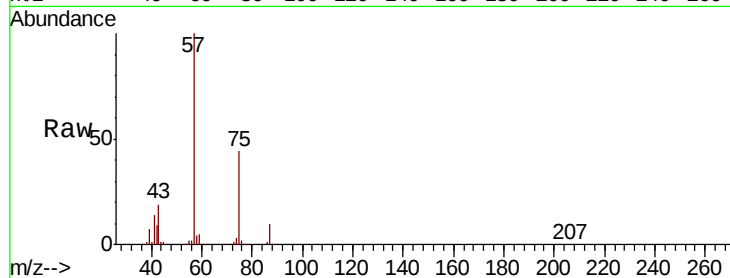




#57
 1,3-Dichloropropane
 Concen: 0.948 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.05 min
 Lab File: VN059808.D
 Acq: 21 Jan 2020 13:44

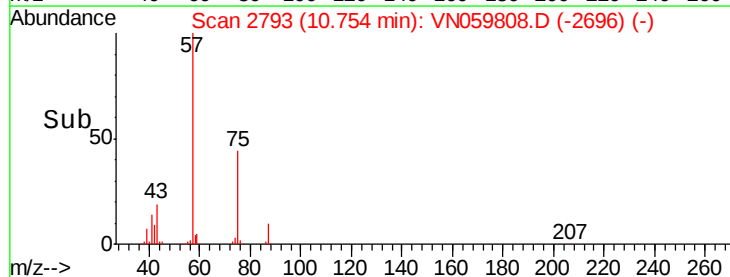
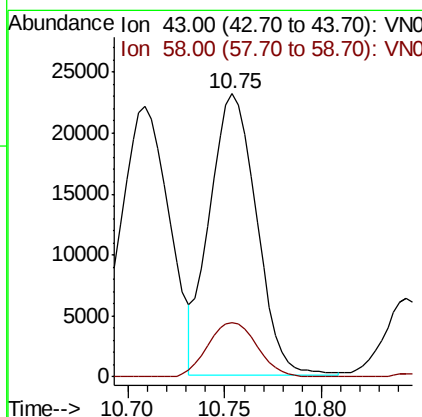
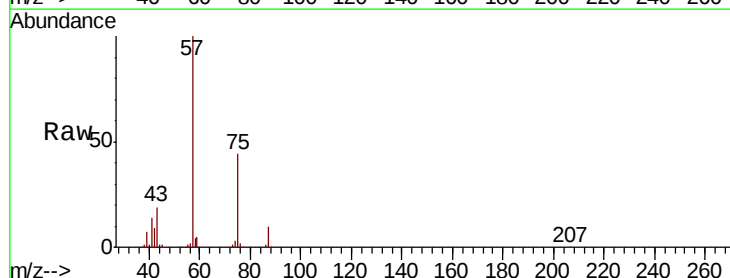
Instrument :
 MSVOA_N
 ClientSampleId :

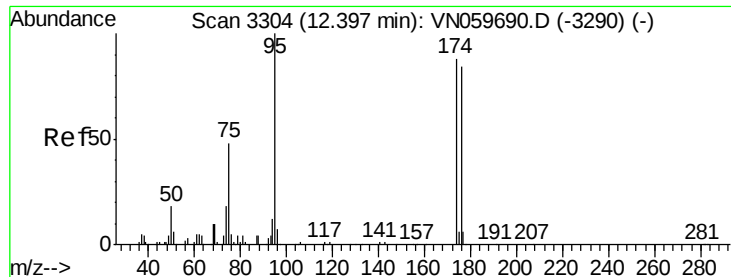
Tot Ion: 76 Resp: 2977
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 21.425 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059808.D
 Acq: 21 Jan 2020 13:44

Tgt Ion: 43 Resp: 39034
 Ion Ratio Lower Upper
 43 100
 58 20.3 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 47.842 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059808.D

Acq: 21 Jan 2020 13:44

Instrument :

MSVOA_N

ClientSampled :

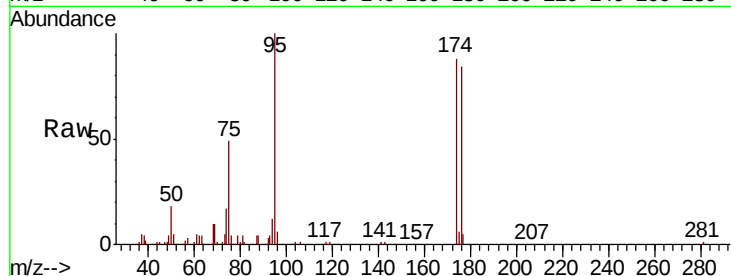
Tot Ion: 95 Resp: 121353

Ion Ratio Lower Upper

95 100

174 88.6 0.0 151.4

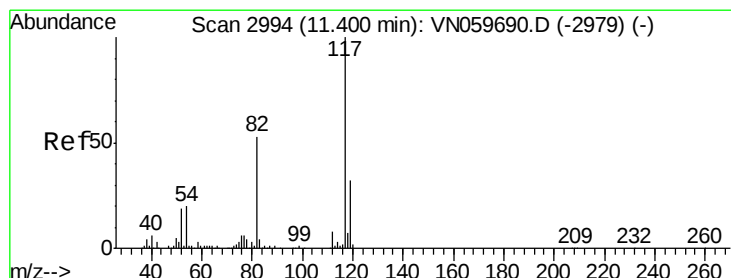
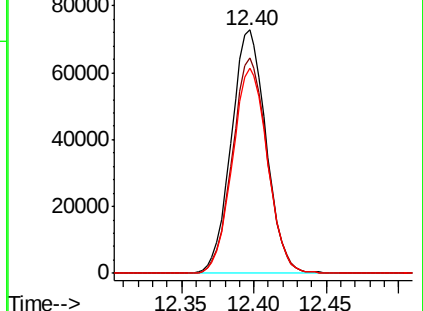
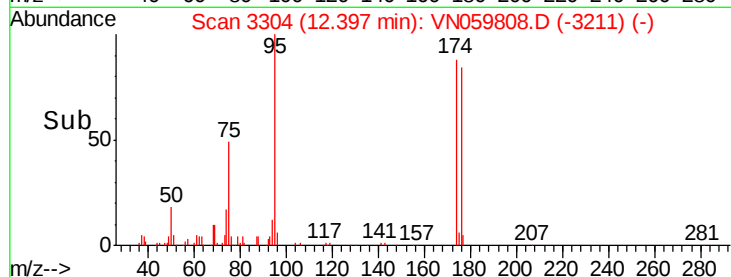
176 85.1 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059808.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN059808.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN059808.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059808.D

Acq: 21 Jan 2020 13:44

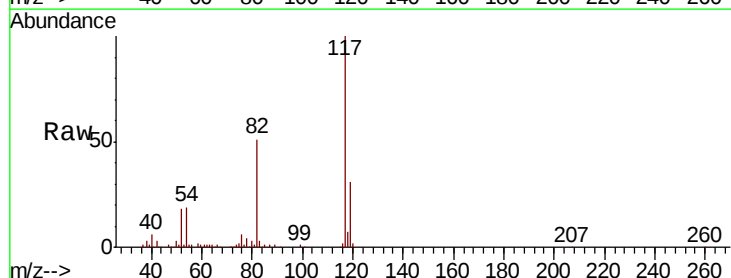
Tgt Ion: 117 Resp: 272706

Ion Ratio Lower Upper

117 100

82 51.0 45.9 68.9

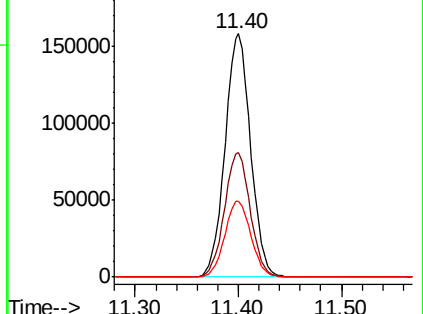
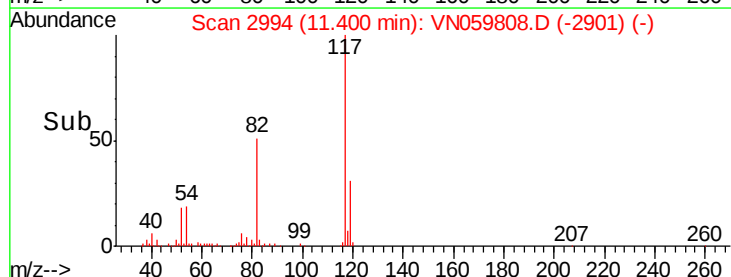
119 31.1 25.5 38.3

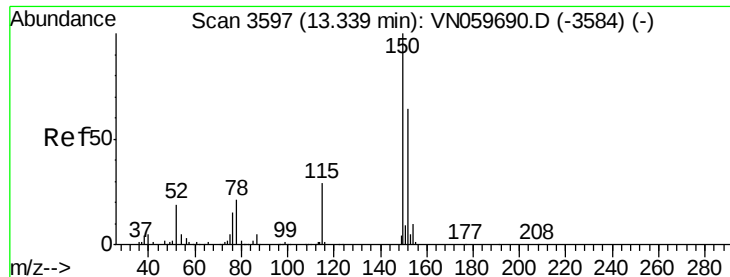


Abundance Ion 116.90 (116.60 to 117.60): VN059808.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN059808.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN059808.D (-2901) (-)



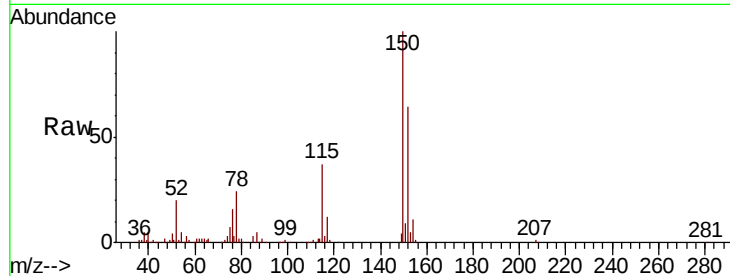


#72

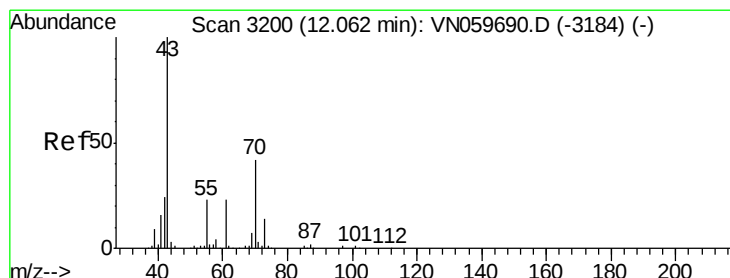
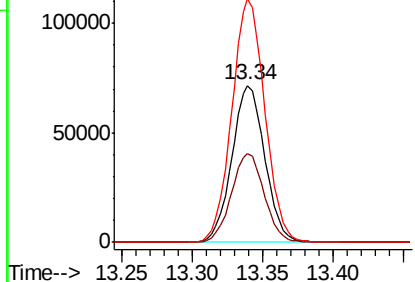
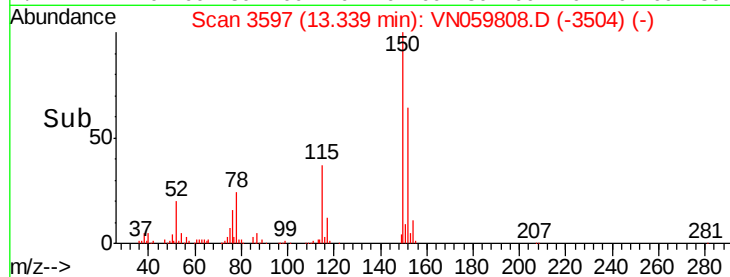
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN059808.D
Acq: 21 Jan 2020 13:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 117024
Ion Ratio Lower Upper
152 100
115 56.4 30.3 90.9
150 155.5 0.0 345.2



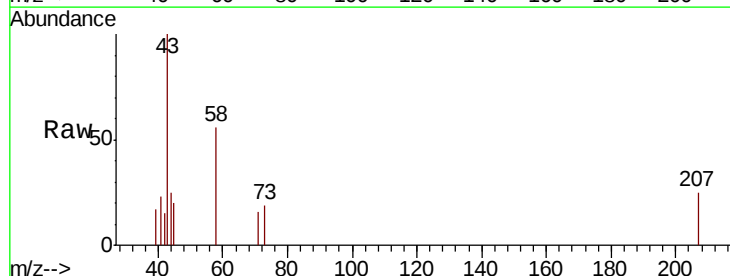
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



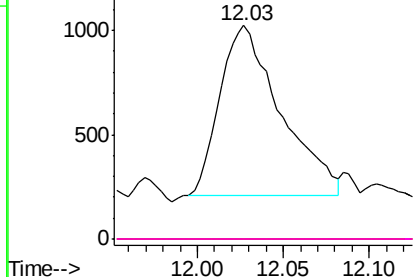
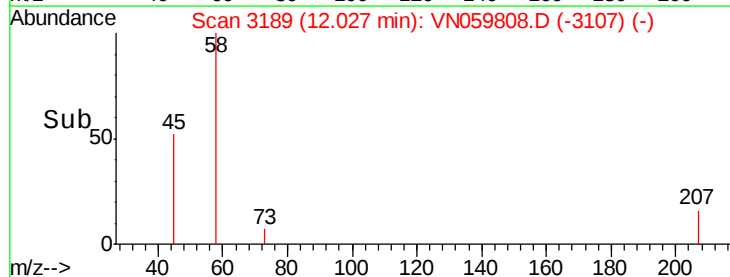
#74

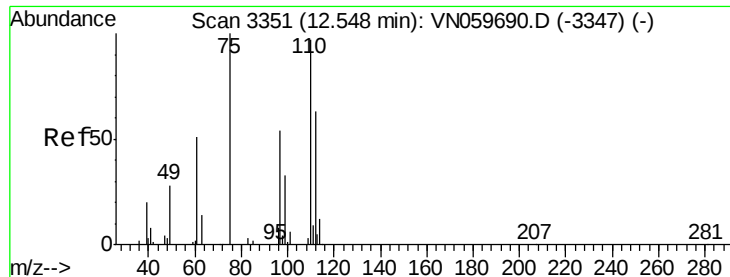
N-ethyl acetate
Concen: 0.607 ug/l
RT: 12.03 min Scan# 3189
Delta R.T. -0.04 min
Lab File: VN059808.D
Acq: 21 Jan 2020 13:44

Tgt Ion: 43 Resp: 2023
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: 31.209 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059808.D

Acq: 21 Jan 2020 13:44

Instrument :

MSVOA_N

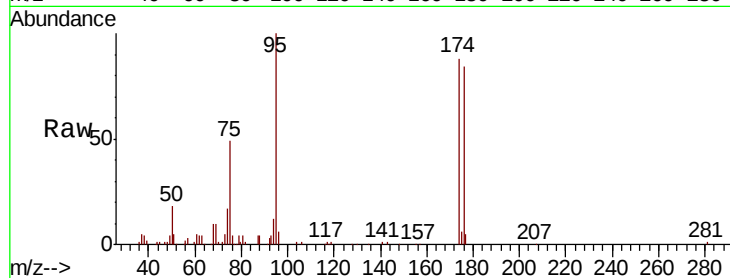
ClientSampleId :

Tot Ion: 75 Resp: 61462

Ion Ratio Lower Upper

75 100

77 0.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN059808.D (-3304) (-)

Ion 77.00 (76.70 to 77.70): VN059808.D (-3304) (-)

12.40

40000

30000

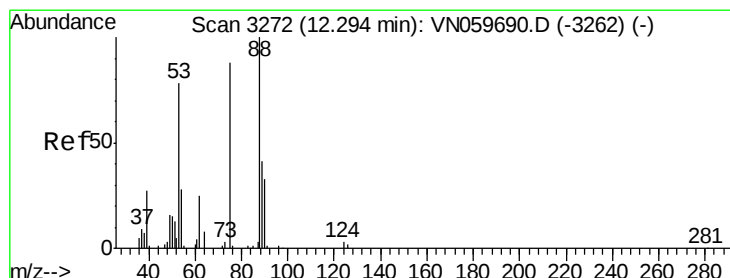
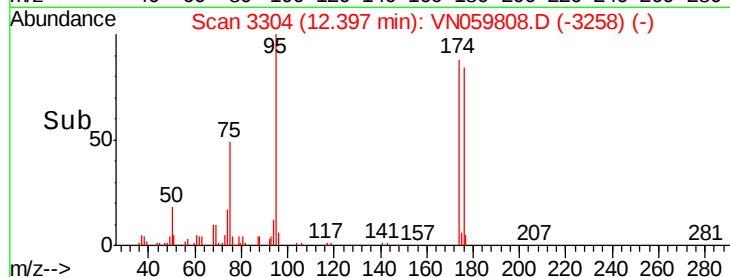
20000

10000

0

12.35 12.40 12.45

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 67.020 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059808.D

Acq: 21 Jan 2020 13:44

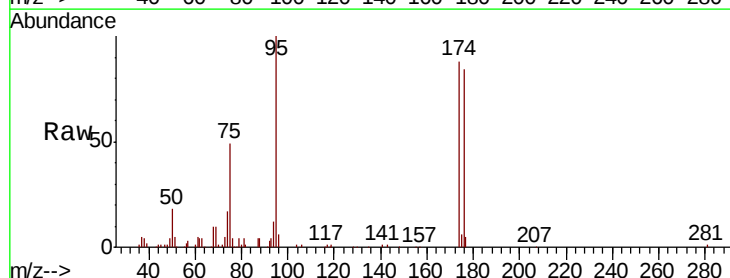
Tgt Ion: 75 Resp: 61462

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): VN059808.D (-3304) (-)

Ion 53.00 (52.70 to 53.70): VN059808.D (-3304) (-)

Ion 88.90 (88.60 to 89.60): VN059808.D (-3304) (-)

12.40

50000

40000

30000

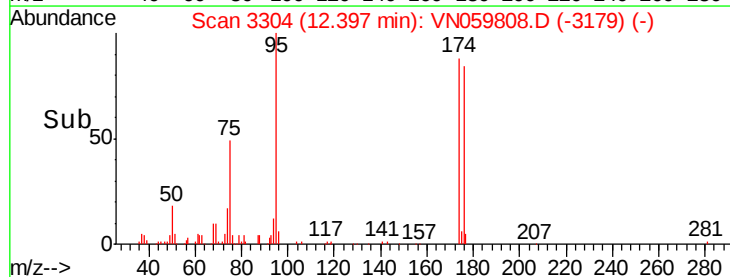
20000

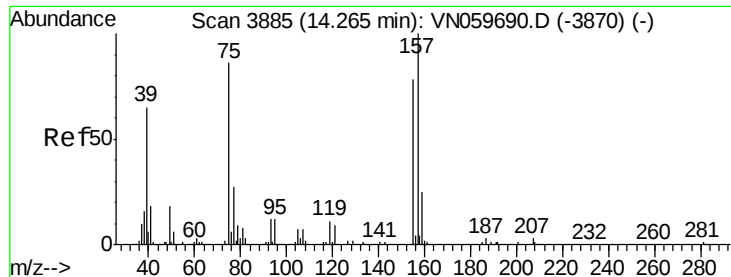
10000

0

12.35 12.40 12.45

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.24 min Scan# 3878

Delta R.T. -0.02 min

Lab File: VN059808.D

Acq: 21 Jan 2020 13:44

Instrument :

MSVOA_N

ClientSampleId :

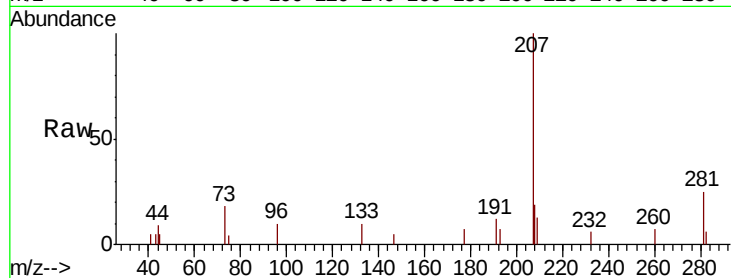
Tot Ion: 75 Resp: 59

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): VN059808.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN059808.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN059808.D (-3791) (-)

