

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012420\
 Data File : VN059857.D
 Acq On : 24 Jan 2020 19:48
 Operator : JC/MD
 Sample : PB126303ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 25 00:31:13 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	208377	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	313609	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	281299	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	113329	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	111199	48.05	ug/l	0.00
Spiked Amount						
			Recovery	=	96.10%	
35) Dibromofluoromethane	7.57	113	95145	50.87	ug/l	0.00
Spiked Amount						
			Recovery	=	101.74%	
50) Toluene-d8	10.08	98	370201	51.09	ug/l	0.00
Spiked Amount						
			Recovery	=	102.18%	
62) 4-Bromofluorobenzene	12.40	95	123261	47.19	ug/l	0.00
Spiked Amount						
			Recovery	=	94.38%	

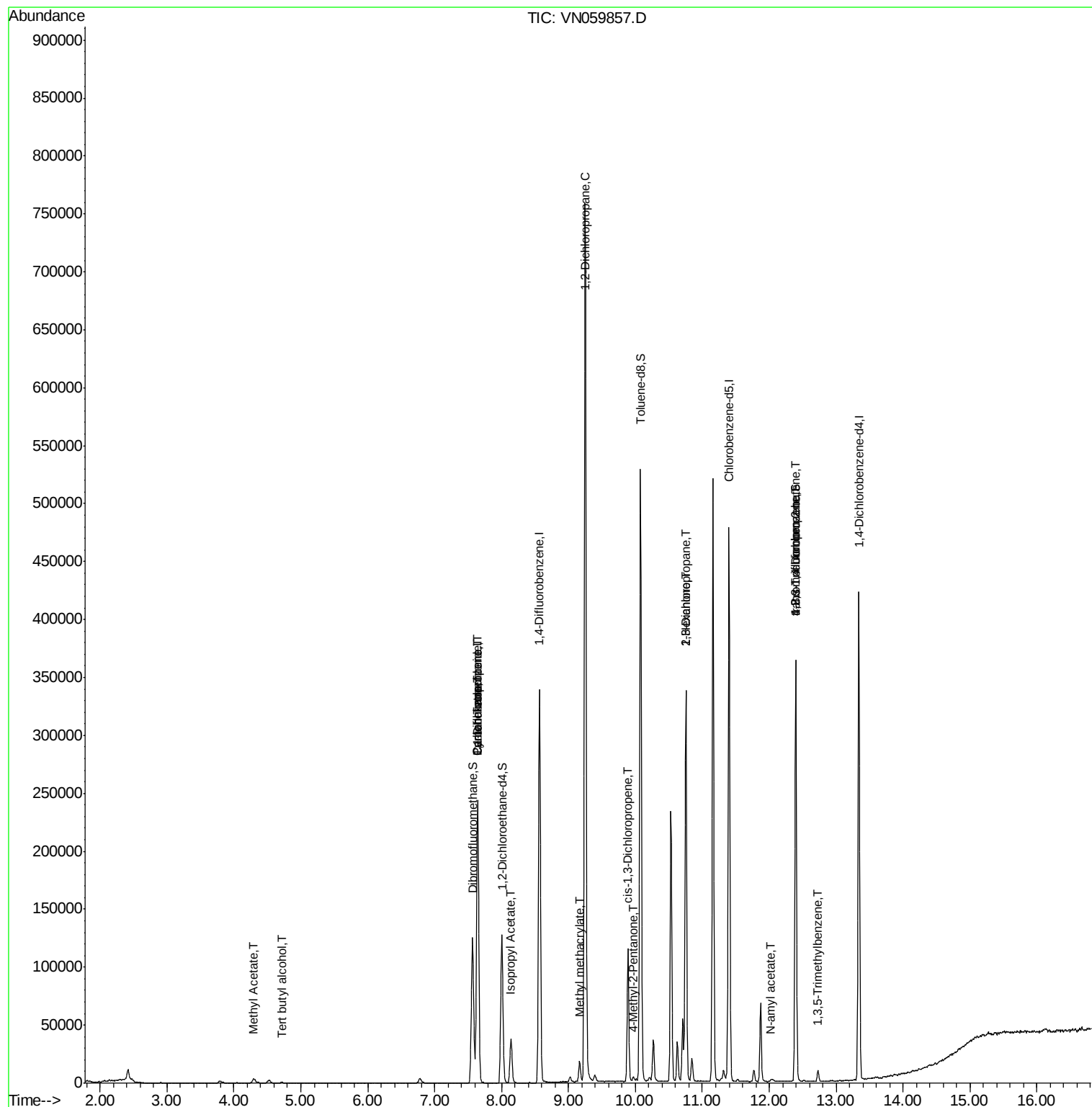
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	112	0.288	ug/l #	72
16) Acetone	3.80	43	3110	Below Cal		96
18) Methyl Acetate	4.29	43	7706	2.851	ug/l	98
20) Methylene Chloride	4.52	84	1910	Below Cal	#	81
31) Cyclohexane	7.64	56	3784	1.105	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13758	5.038	ug/l #	51
38) Carbon Tetrachloride	7.64	117	19148	6.445	ug/l #	16
43) Isopropyl Acetate	8.14	43	44551	10.112	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	791	0.392	ug/l #	44
48) Methyl methacrylate	9.16	41	2327	1.181	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3105	1.219	ug/l #	82
54) cis-1,3-Dichloropropene	9.89	75	22039	6.548	ug/l #	56
57) 1,3-Dichloropropane	10.75	76	3744	1.157	ug/l #	42
59) 2-Hexanone	10.75	43	47192	25.152	ug/l #	55
74) N-amyl acetate	12.02	43	1423	0.441	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	61602	32.299	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5836	0.835	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	61602	69.363	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.31	75	30	Below Cal	#	6

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

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MSVOA_N
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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: VN059857.D

Acq: 24 Jan 2020 19:48

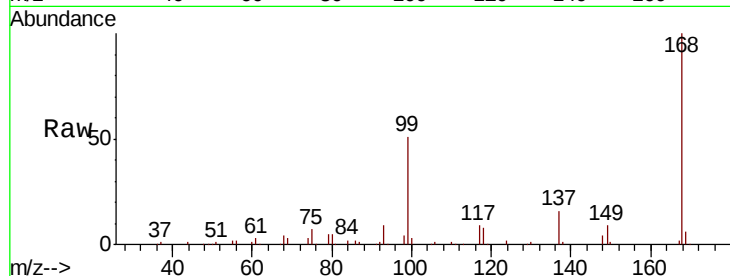
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 208377

Ion Ratio Lower Upper

168 100

99 50.7 48.2 72.4

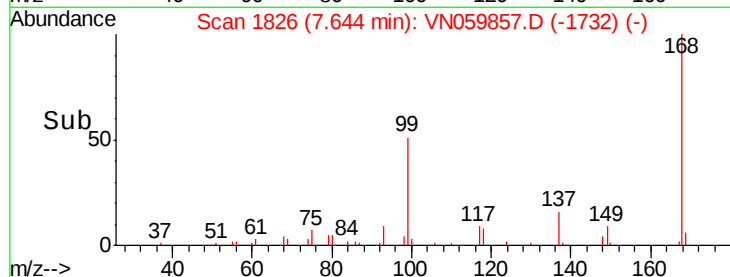


Abundance Ion 167.90 (167.60 to 168.60): V

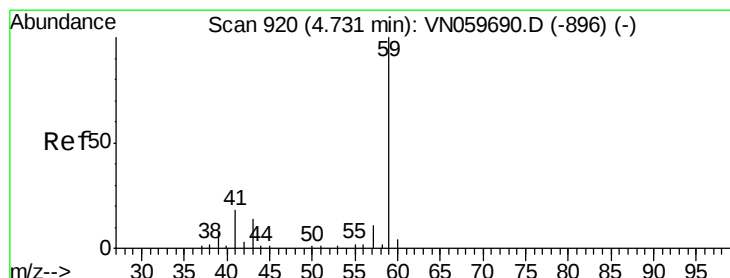
Ion 98.90 (98.60 to 99.60): VN

7.64

Time-->



Time-->



#11

Tert butyl alcohol

Concen: 0.288 ug/l

RT: 4.72 min Scan# 918

Delta R.T. -0.01 min

Lab File: VN059857.D

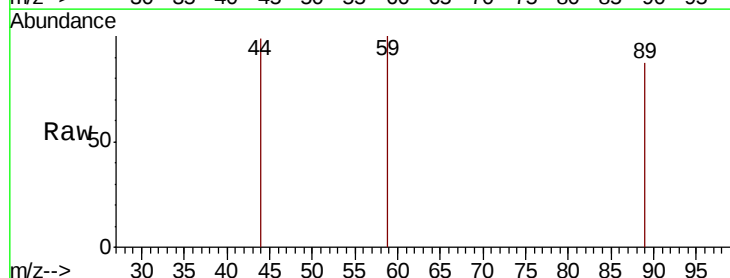
Acq: 24 Jan 2020 19:48

Tgt Ion: 59 Resp: 112

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#

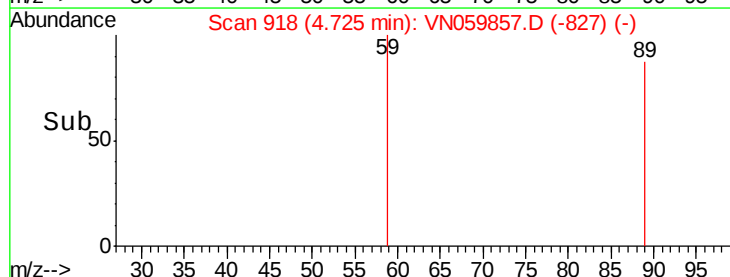


Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.72

Time-->



Time-->



#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 630

Delta R.T. 0.02 min

Lab File: VN059857.D

Acq: 24 Jan 2020 19:48

Instrument :

MSVOA_N

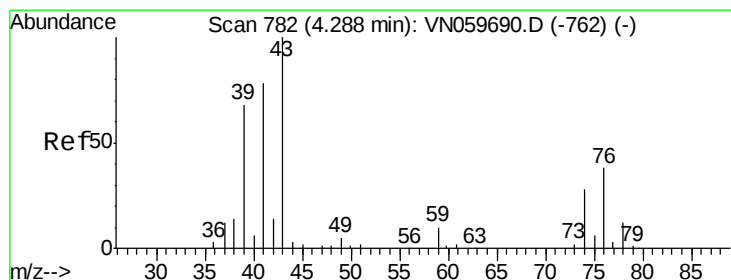
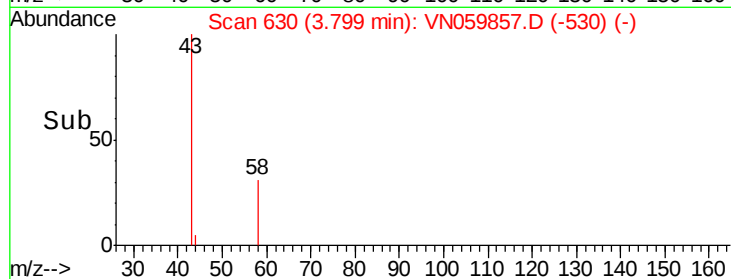
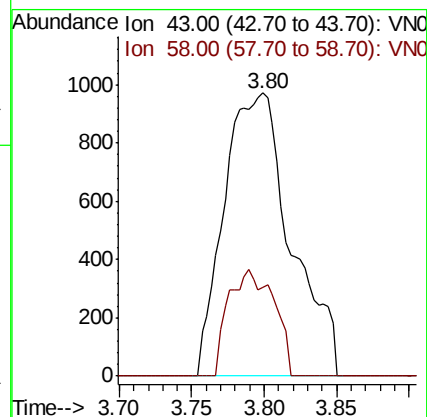
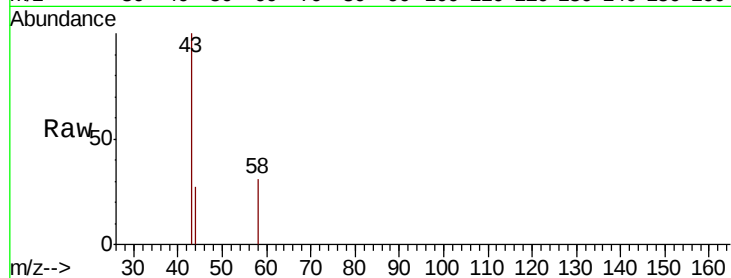
ClientSampled :

Tot Ion: 43 Resp: 3110

Ion Ratio Lower Upper

43 100

58 31.4 23.6 35.4



#18

Methyl Acetate

Concen: 2.851 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN059857.D

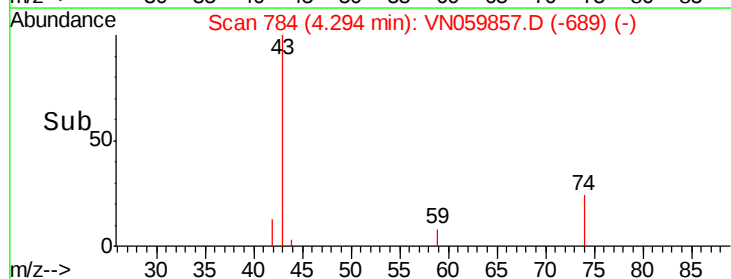
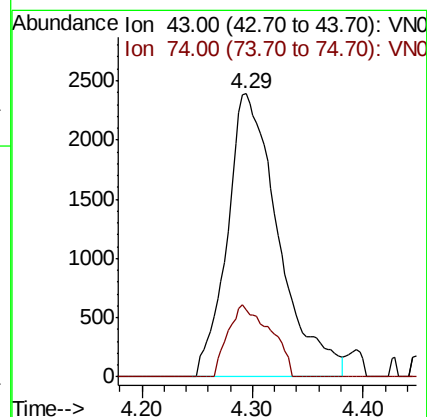
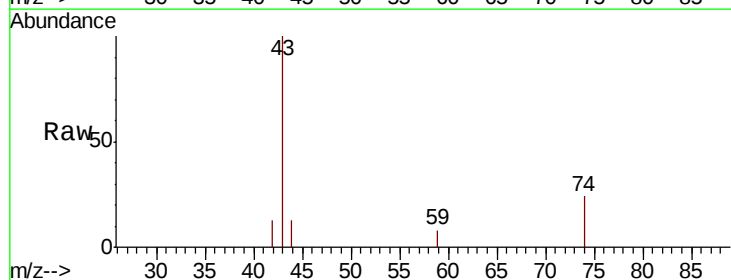
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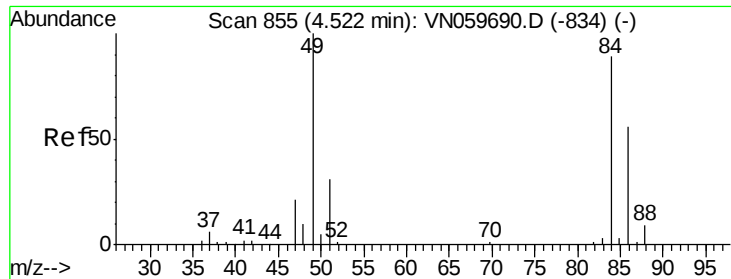
Tgt Ion: 43 Resp: 7706

Ion Ratio Lower Upper

43 100

74 21.0 17.5 26.3

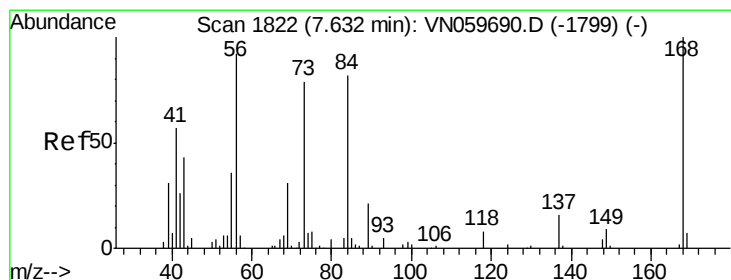
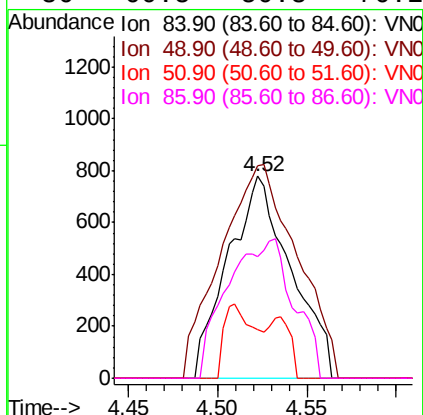
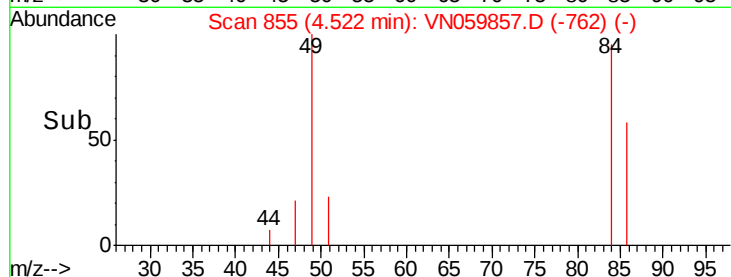
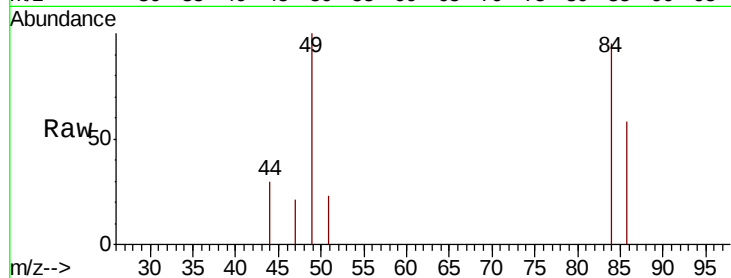




#20
Methylene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059857.D
Acq: 24 Jan 2020 19:48

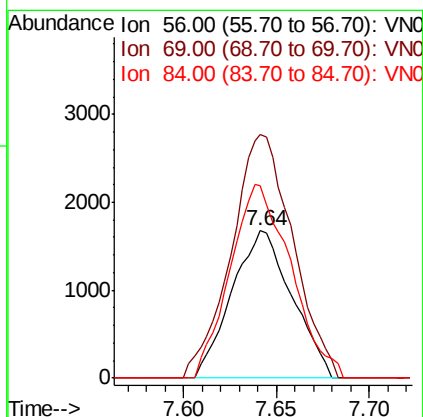
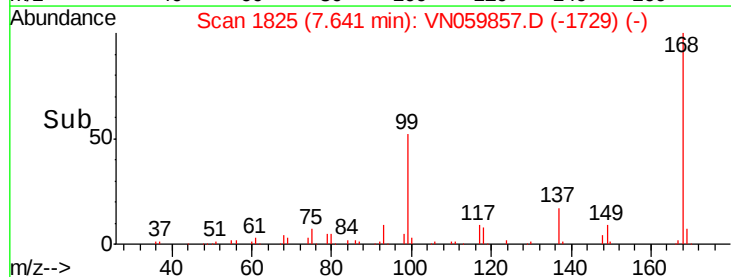
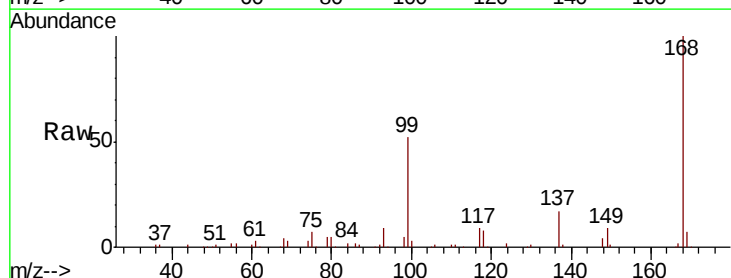
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 1910
Ion Ratio Lower Upper
84 100
49 104.9 106.6 160.0#
51 23.9 31.9 47.9#
86 60.5 50.8 76.2



#31
Cyclohexane
Concen: 1.105 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059857.D
Acq: 24 Jan 2020 19:48

Tgt Ion: 56 Resp: 3784
Ion Ratio Lower Upper
56 100
69 165.5 26.5 39.7#
84 130.9 65.3 97.9#

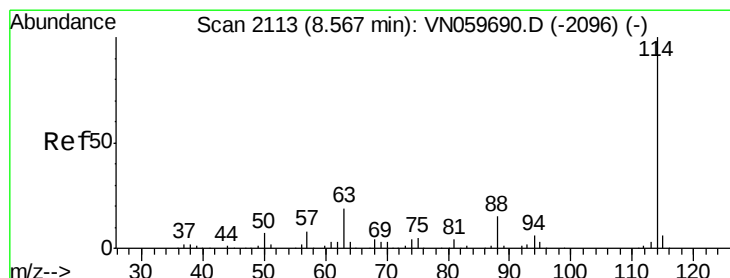
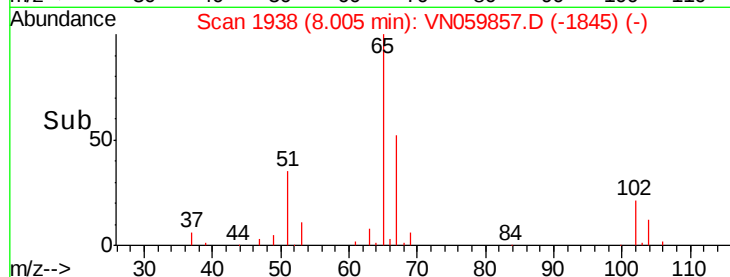
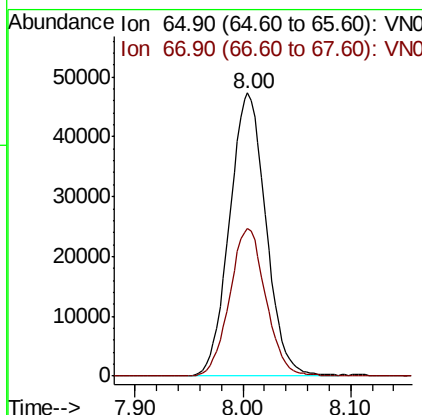
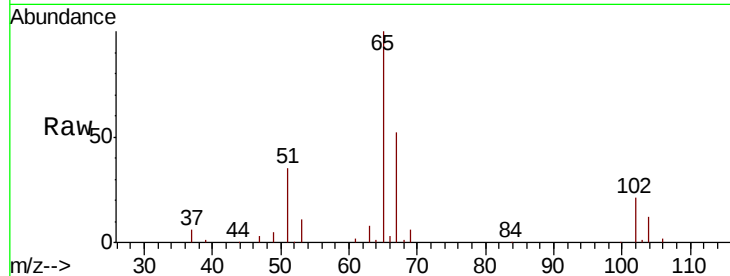




#33
 1,2-Dichloroethane-d4
 Concen: 48.053 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059857.D
 Acq: 24 Jan 2020 19:48

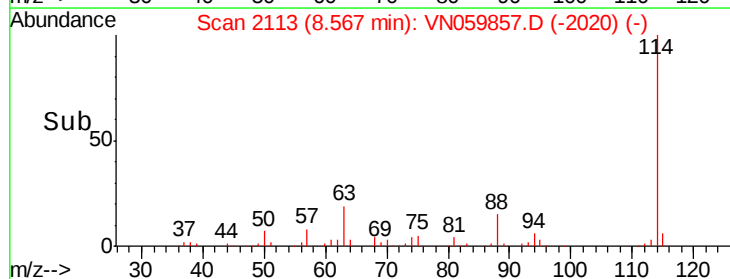
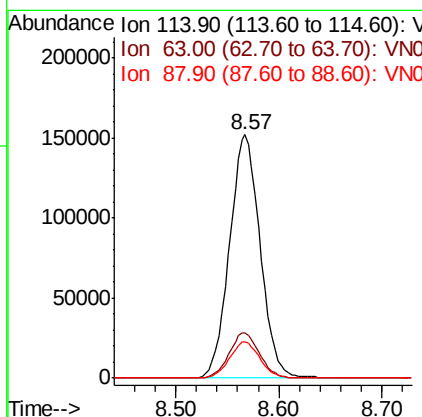
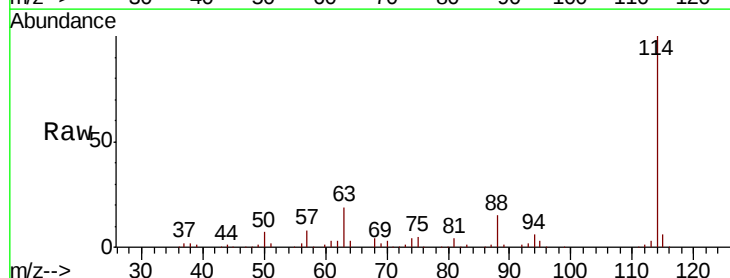
Instrument :
 MSVOA_N
 ClientSampleID :

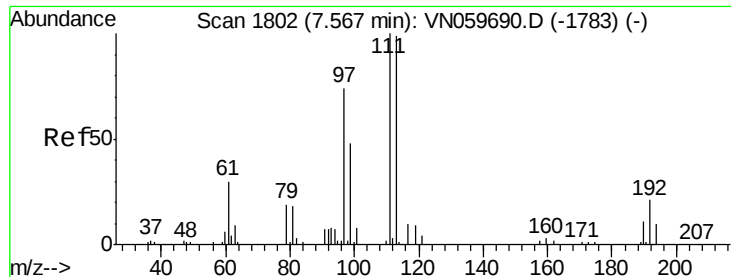
Tot Ion: 65 Resp: 111199
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059857.D
 Acq: 24 Jan 2020 19:48

Tgt Ion: 114 Resp: 313609
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 43.6
 88 15.2 0.0 31.4

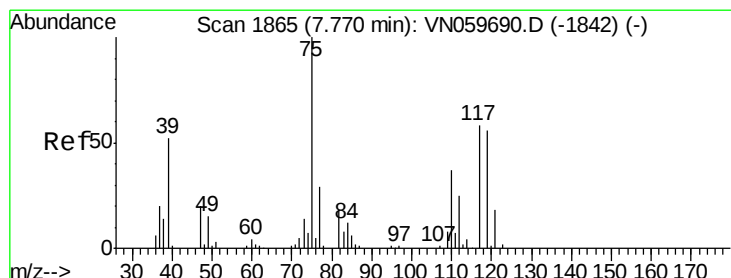
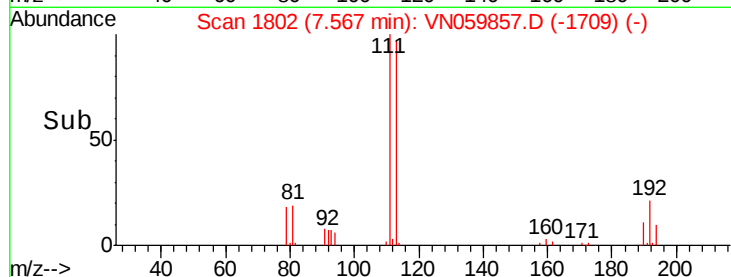
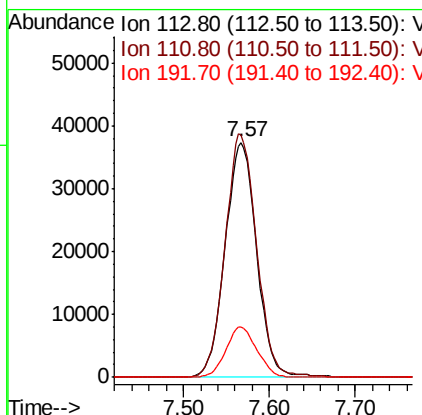
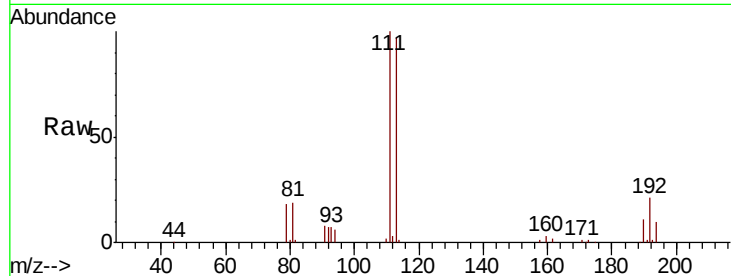




#35
 Dibromofluoromethane
 Concen: 50.875 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059857.D
 Acq: 24 Jan 2020 19:48

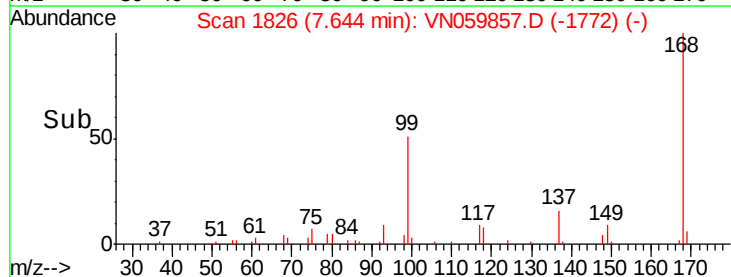
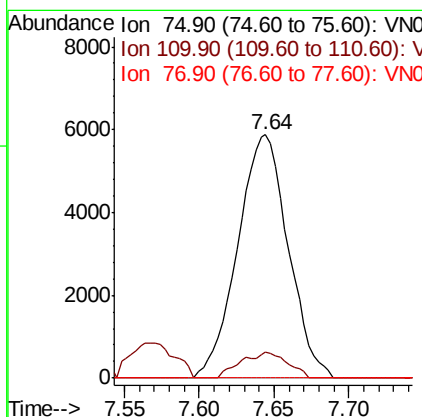
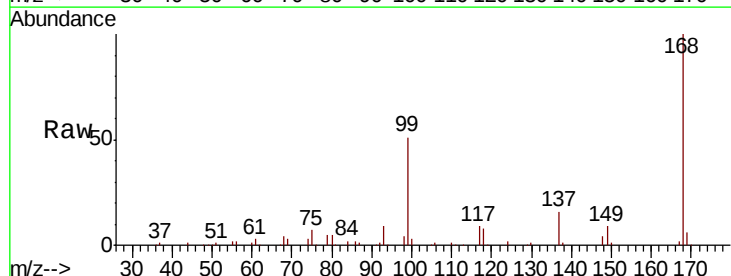
Instrument :
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 ClientSampleId :

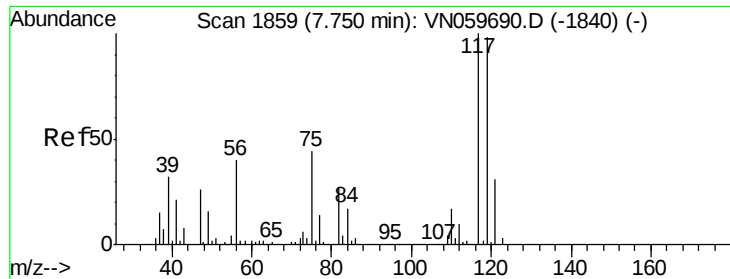
Tot Ion:113 Resp: 95145
 Ion Ratio Lower Upper
 113 100
 111 103.5 83.5 125.3
 192 20.8 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 5.038 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059857.D
 Acq: 24 Jan 2020 19:48

Tgt Ion: 75 Resp: 13758
 Ion Ratio Lower Upper
 75 100
 110 9.9 16.6 49.7#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.445 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN059857.D

Acq: 24 Jan 2020 19:48

Instrument :

MSVOA_N

ClientSampled :

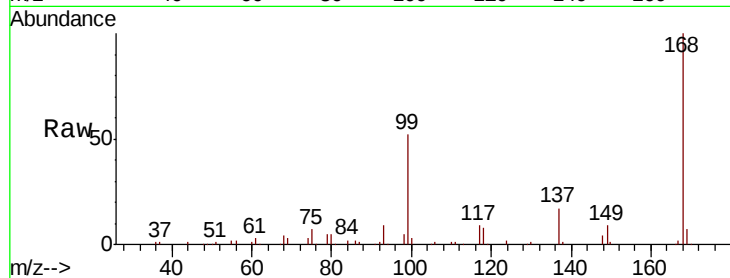
Tot Ion:117 Resp: 19148

Ion Ratio Lower Upper

117 100

119 4.9 76.5 114.7#

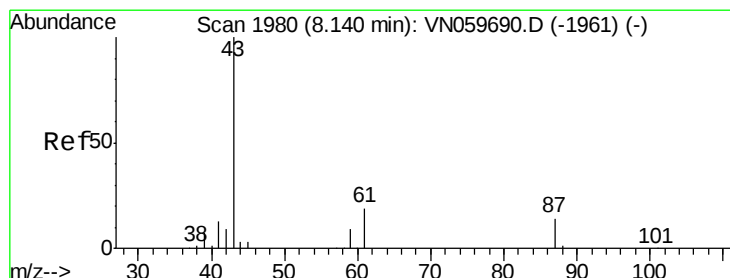
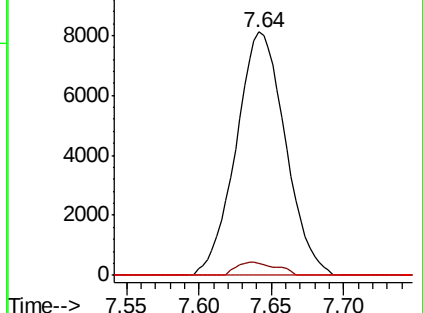
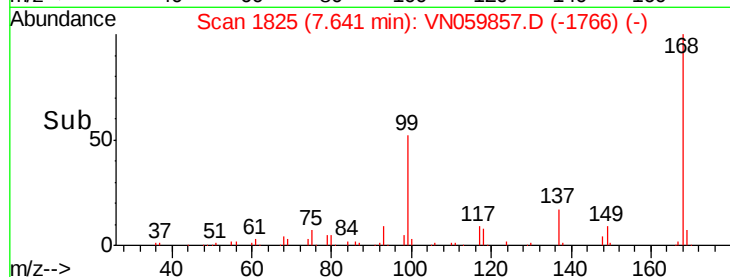
121 0.0 25.1 37.7#



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: 10.112 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059857.D

Acq: 24 Jan 2020 19:48

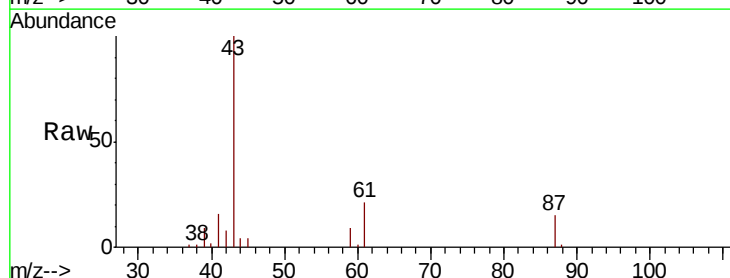
Tgt Ion: 43 Resp: 44551

Ion Ratio Lower Upper

43 100

61 19.6 20.2 30.2#

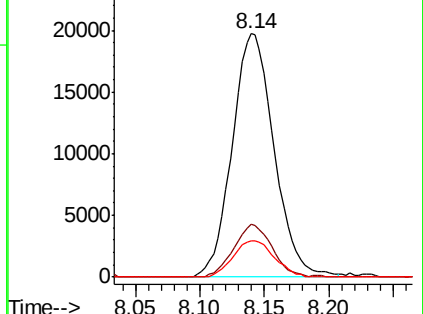
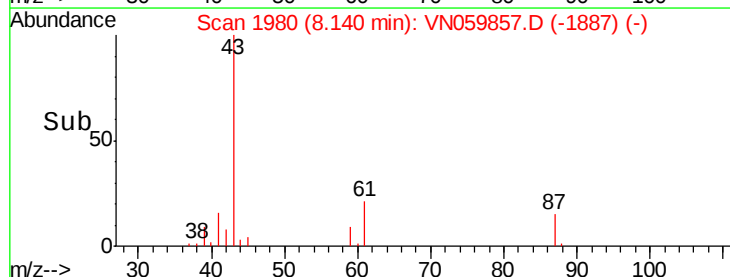
87 14.5 9.5 14.3#

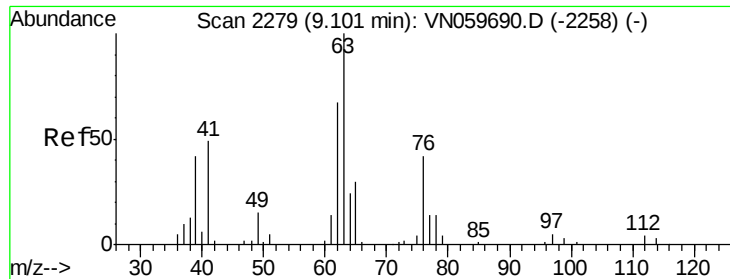


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

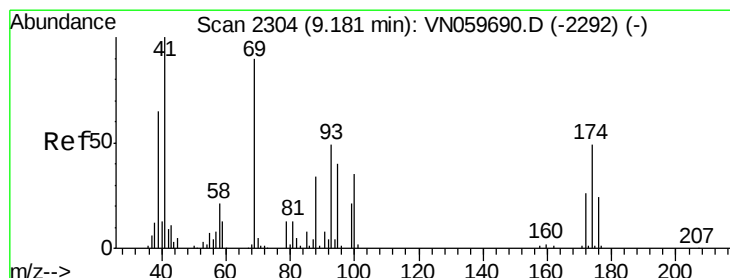
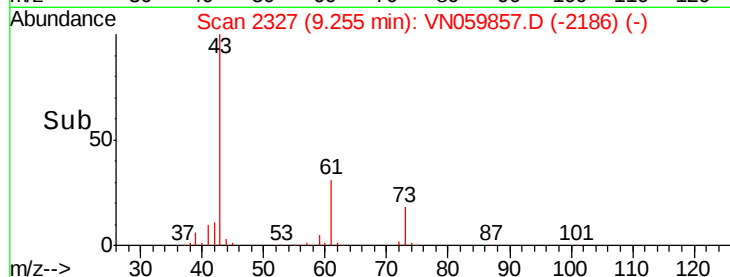
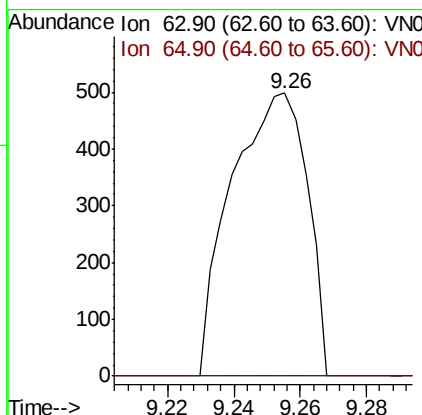
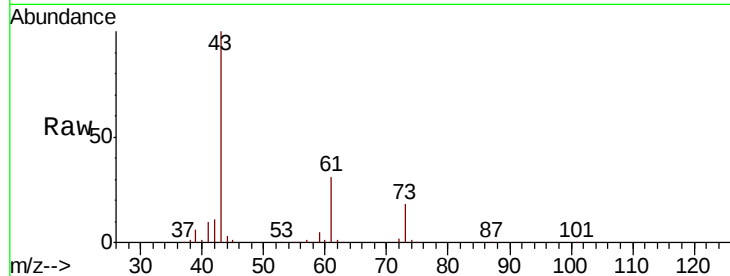




#45
 1,2-Dichloropropane
 Concen: 0.392 ug/l
 RT: 9.26 min Scan# 2327
 Delta R.T. 0.15 min
 Lab File: VN059857.D
 Acq: 24 Jan 2020 19:48

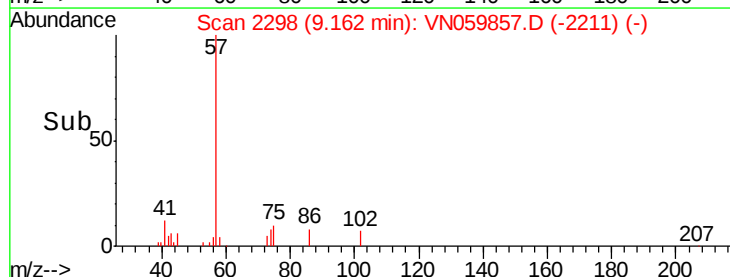
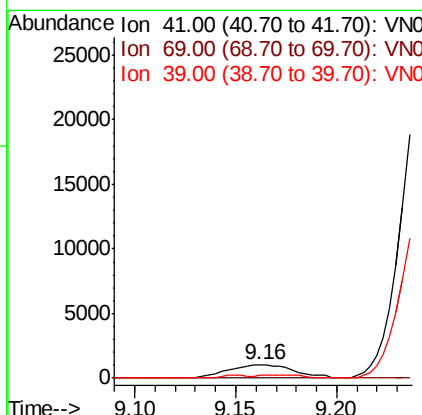
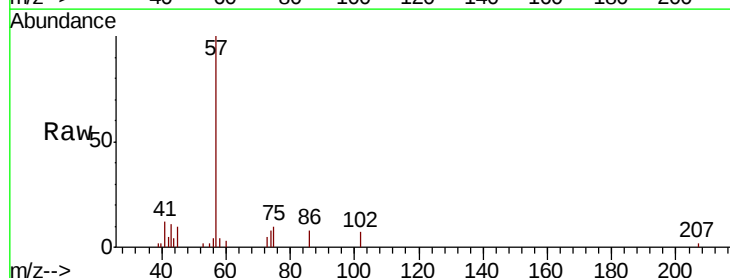
Instrument :
 MSVOA_N
 ClientSampled :

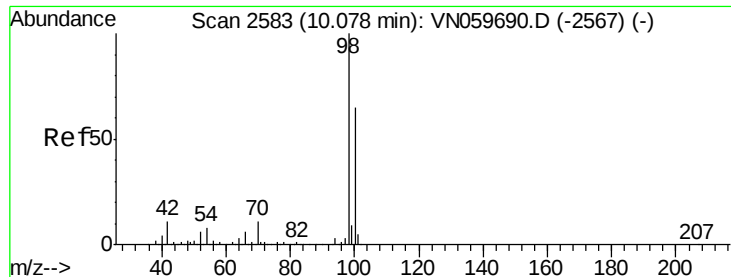
Tot Ion: 63 Resp: 791
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.9 37.3#



#48
 Methyl methacrylate
 Concen: 1.181 ug/l
 RT: 9.16 min Scan# 2298
 Delta R.T. -0.02 min
 Lab File: VN059857.D
 Acq: 24 Jan 2020 19:48

Tgt Ion: 41 Resp: 2327
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 51.3 76.9#





#50

Toluene-d8

Concen: 51.090 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN059857.D

Acq: 24 Jan 2020 19:48

Instrument :

MSVOA_N

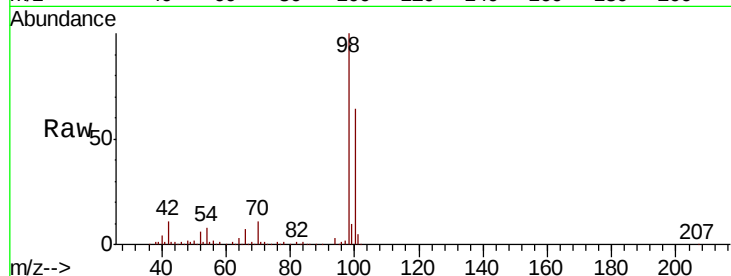
ClientSampled :

Tot Ion: 98 Resp: 370201

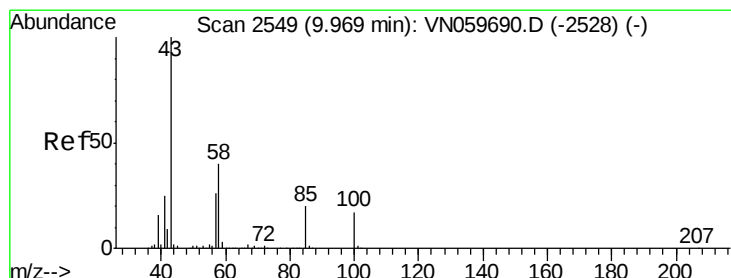
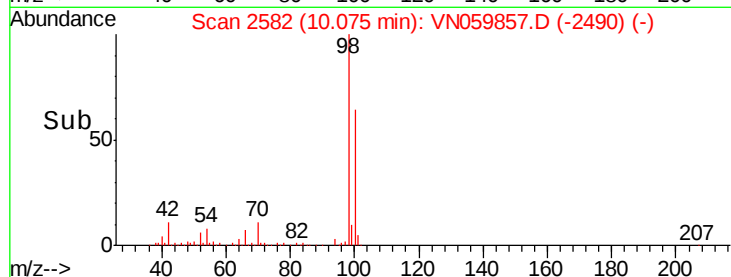
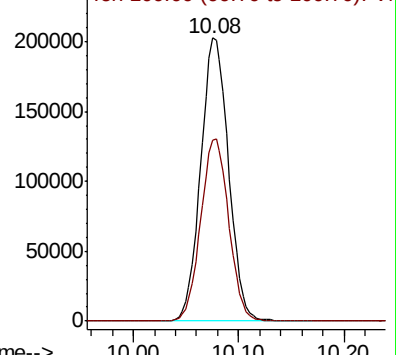
Ion Ratio Lower Upper

98 100

100 64.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN059690.D (-2567) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.219 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN059857.D

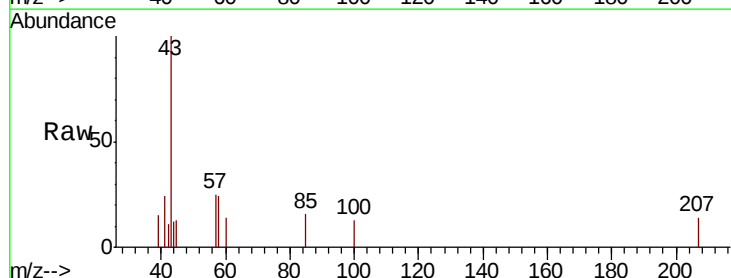
Acq: 24 Jan 2020 19:48

Tgt Ion: 43 Resp: 3105

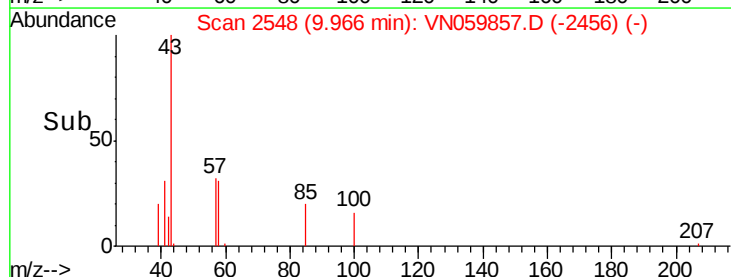
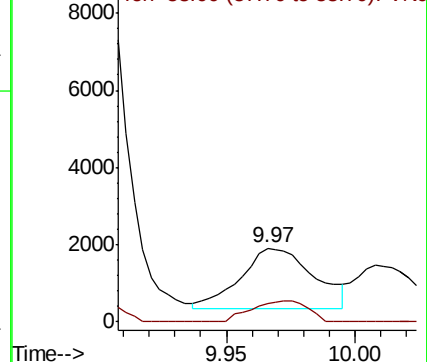
Ion Ratio Lower Upper

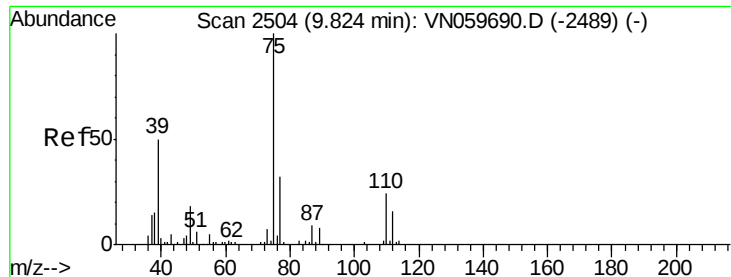
43 100

58 26.5 29.8 44.8#



Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-2528) (-)





#54

cis-1,3-Dichloropropene

Concen: 6.548 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059857.D

Acq: 24 Jan 2020 19:48

Instrument :

MSVOA_N

ClientSampleId :

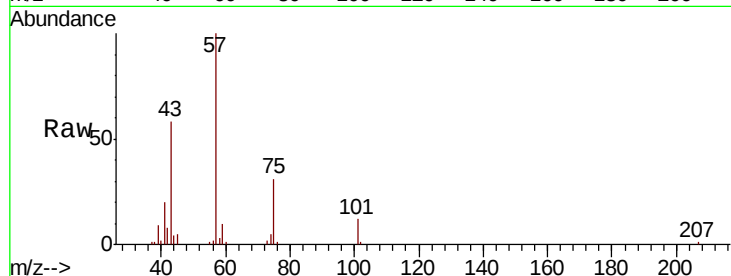
Tot Ion: 75 Resp: 22039

Ion Ratio Lower Upper

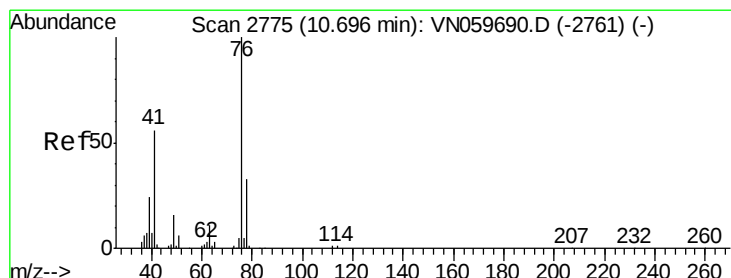
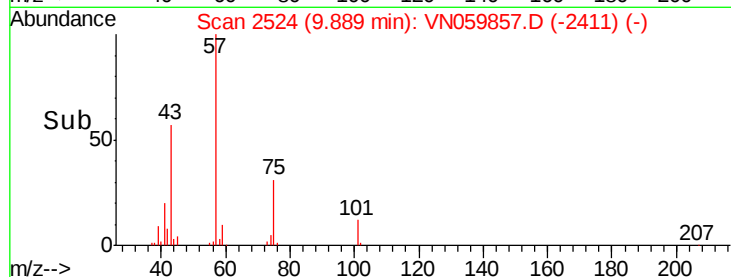
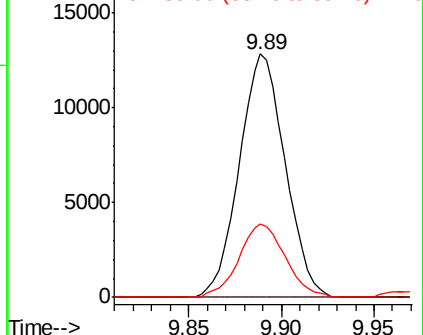
75 100

77 0.0 25.1 37.7#

39 30.2 46.1 69.1#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#57

1,3-Dichloropropane

Concen: 1.157 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059857.D

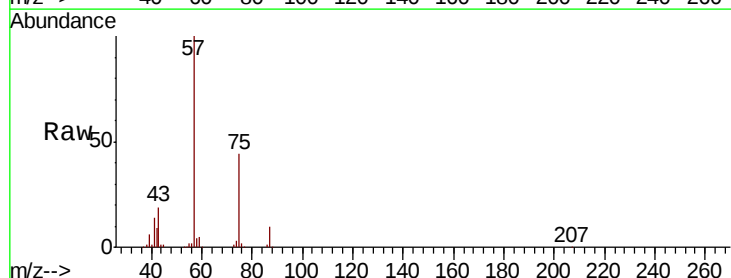
Acq: 24 Jan 2020 19:48

Tgt Ion: 76 Resp: 3744

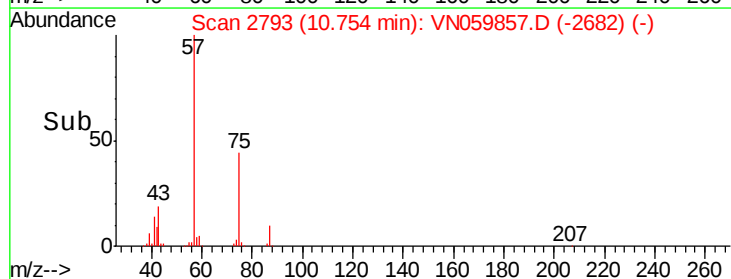
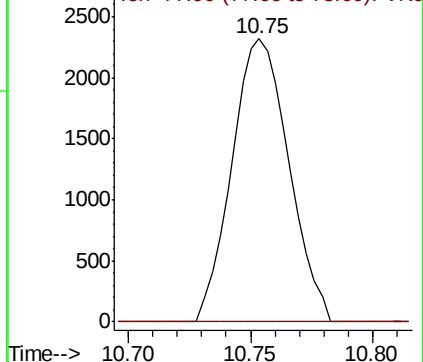
Ion Ratio Lower Upper

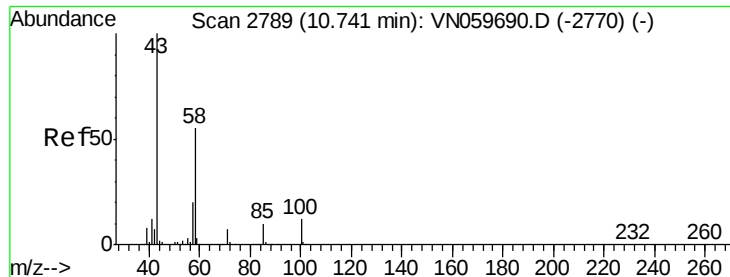
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO

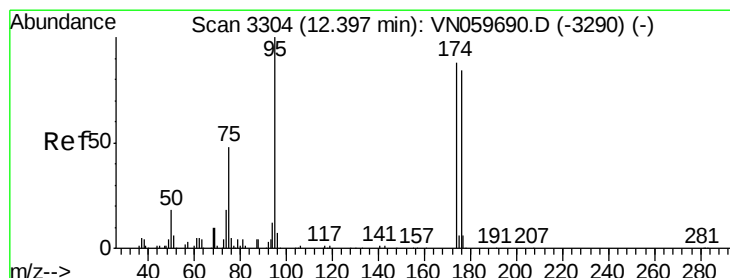
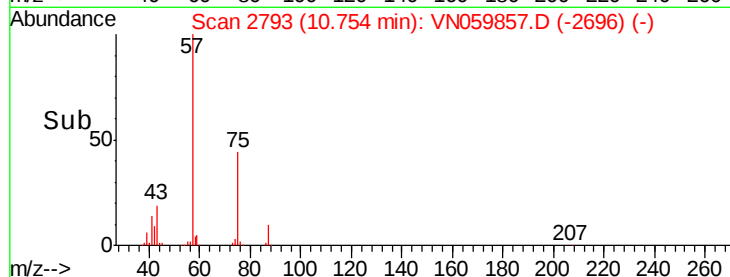
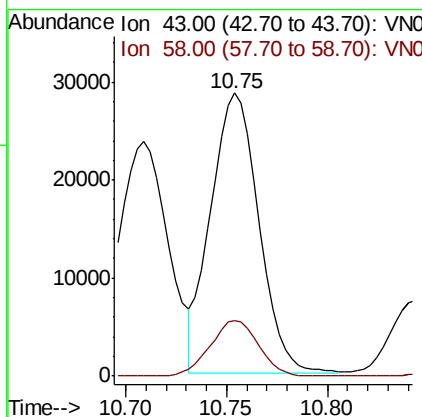
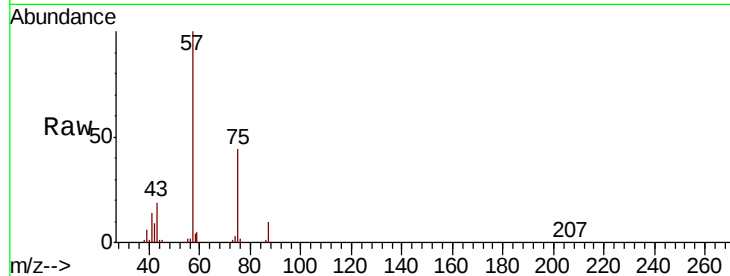




#59
2-Hexanone
Concen: 25.152 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059857.D
Acq: 24 Jan 2020 19:48

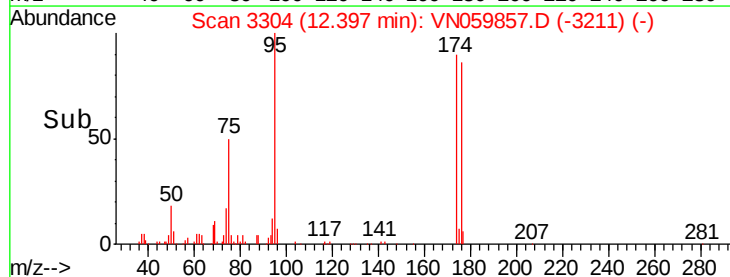
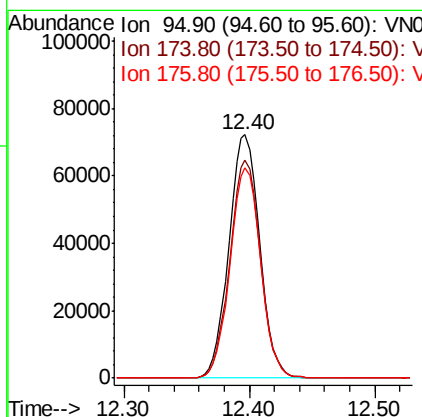
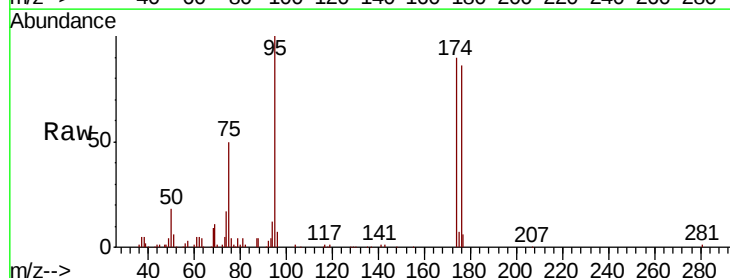
Instrument :
MSVOA_N
ClientSampled :

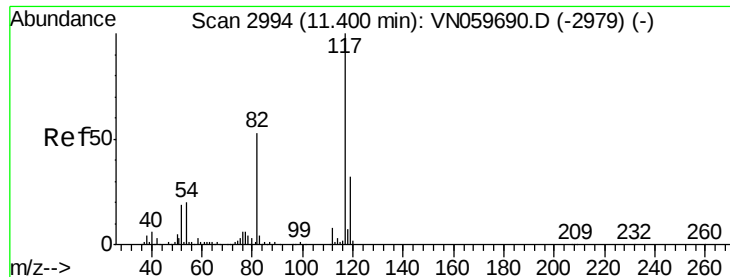
Tot Ion: 43 Resp: 47192
Ion Ratio Lower Upper
43 100
58 20.0 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 47.187 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059857.D
Acq: 24 Jan 2020 19:48

Tgt Ion: 95 Resp: 123261
Ion Ratio Lower Upper
95 100
174 88.9 0.0 151.4
176 85.7 0.0 146.0

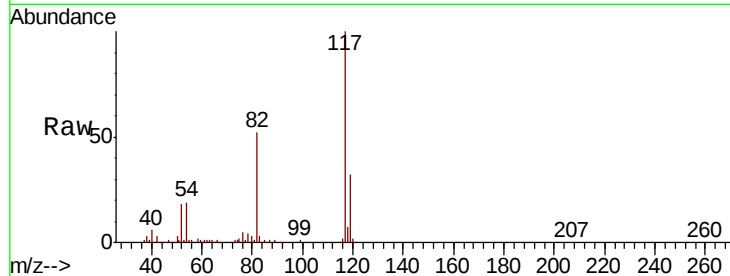




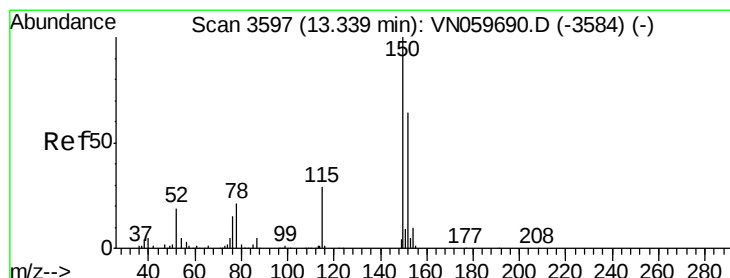
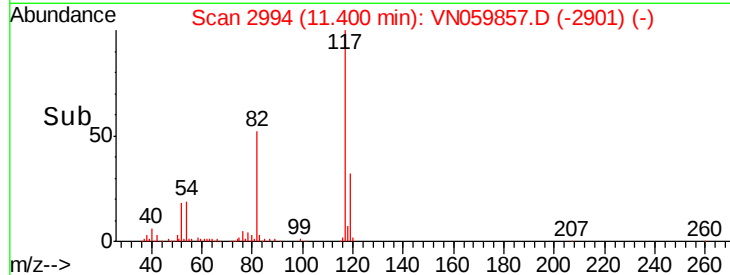
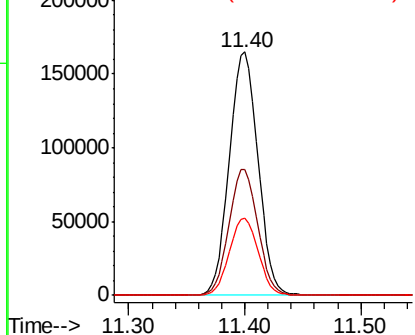
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059857.D
Acq: 24 Jan 2020 19:48

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 281299
Ion Ratio Lower Upper
117 100
82 51.6 45.9 68.9
119 31.7 25.5 38.3

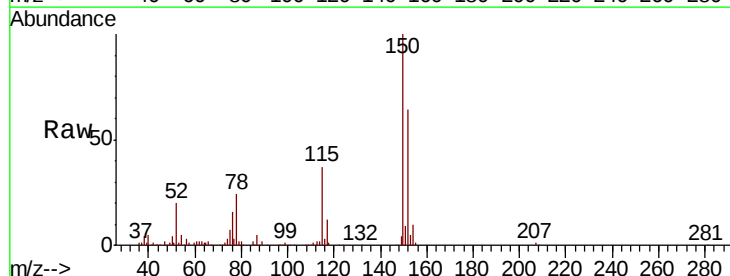


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

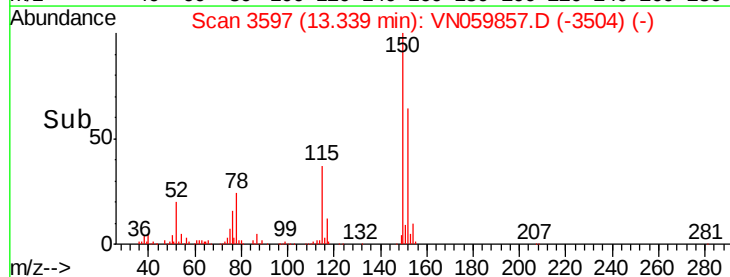
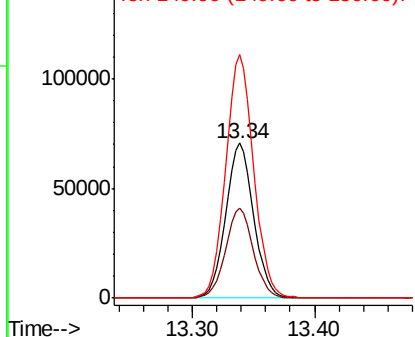


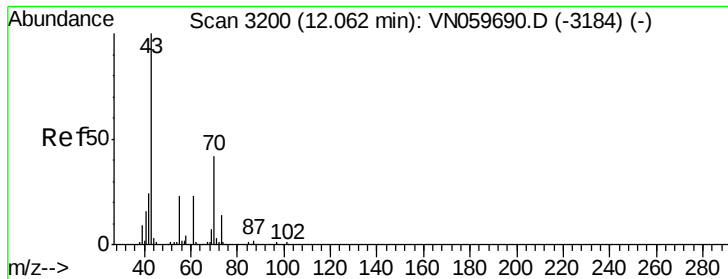
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN059857.D
Acq: 24 Jan 2020 19:48

Tgt Ion:152 Resp: 113329
Ion Ratio Lower Upper
152 100
115 57.6 30.3 90.9
150 157.6 0.0 345.2



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





#74

N-amvl acetate

Concen: 0.441 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN059857.D

Acq: 24 Jan 2020 19:48

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 1423

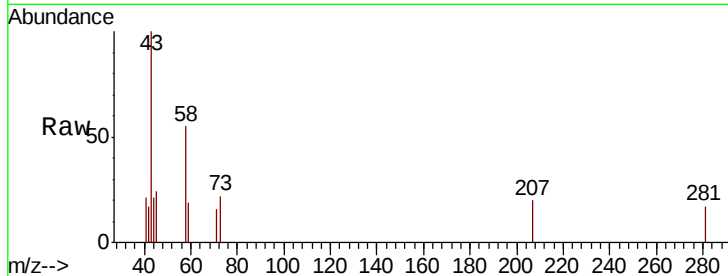
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

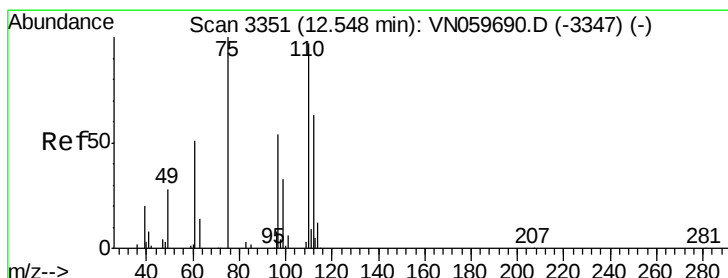
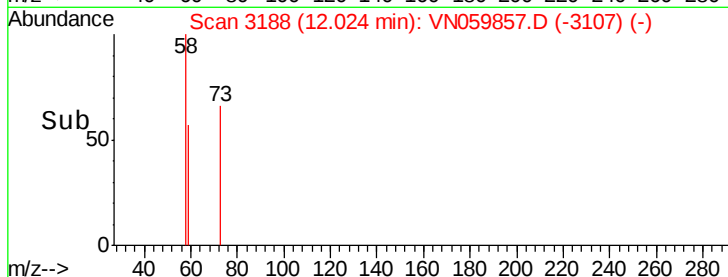
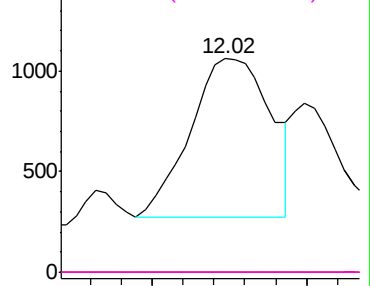


Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 32.299 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059857.D

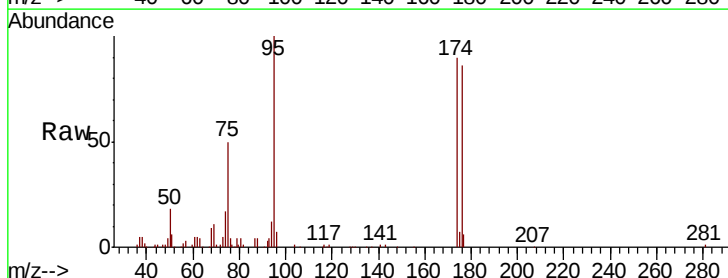
Acq: 24 Jan 2020 19:48

Tgt Ion: 75 Resp: 61602

Ion Ratio Lower Upper

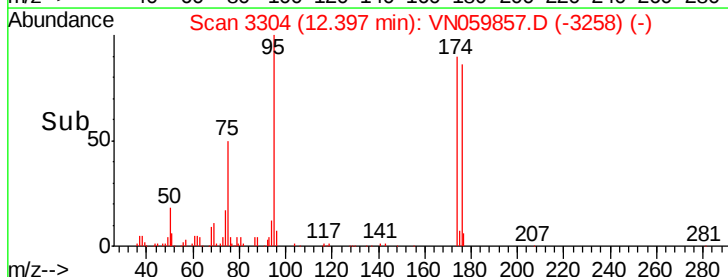
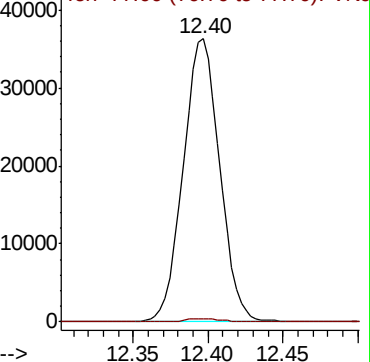
75 100

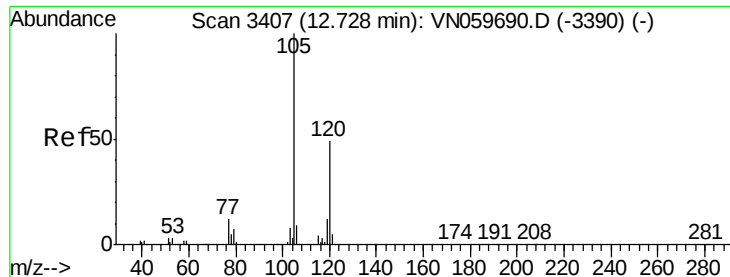
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.835 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN059857.D

Acq: 24 Jan 2020 19:48

Instrument :

MSVOA_N

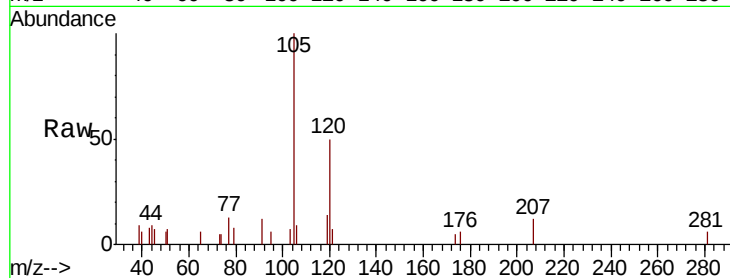
ClientSampled :

Tot Ion: 105 Resp: 5836

Ion Ratio Lower Upper

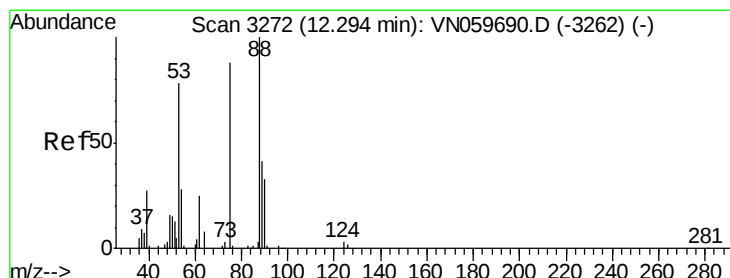
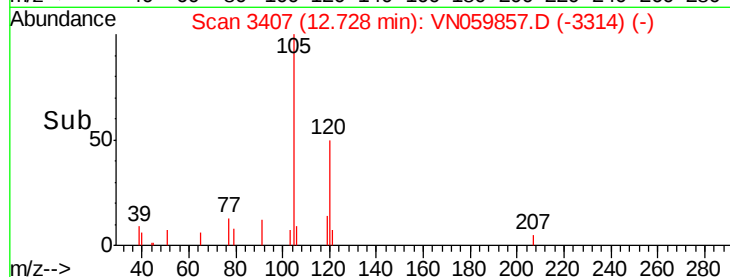
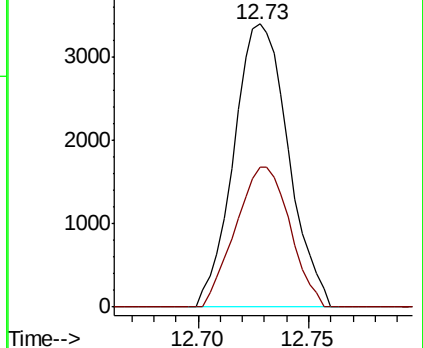
105 100

120 49.2 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 69.363 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059857.D

Acq: 24 Jan 2020 19:48

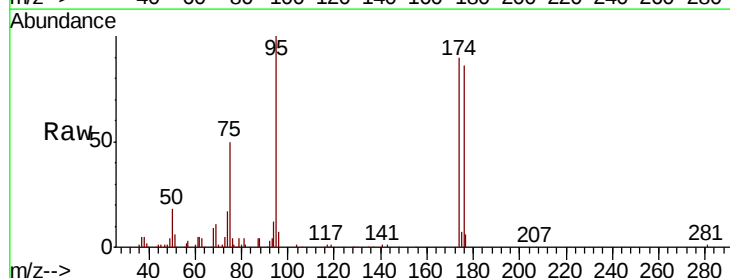
Tgt Ion: 75 Resp: 61602

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

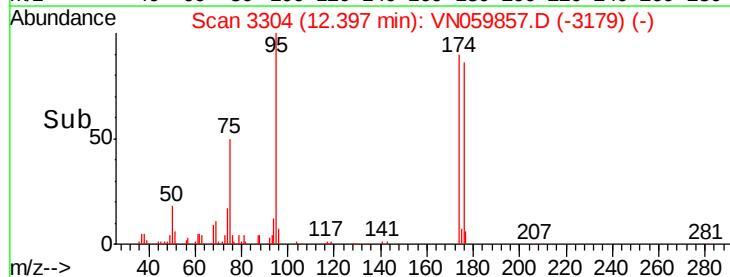
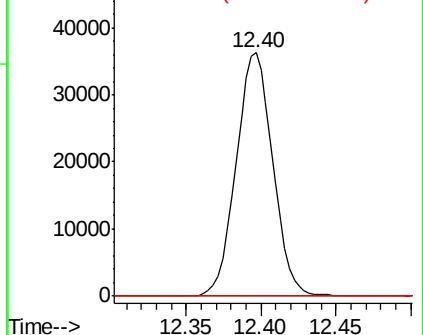
89 0.0 35.4 53.2#

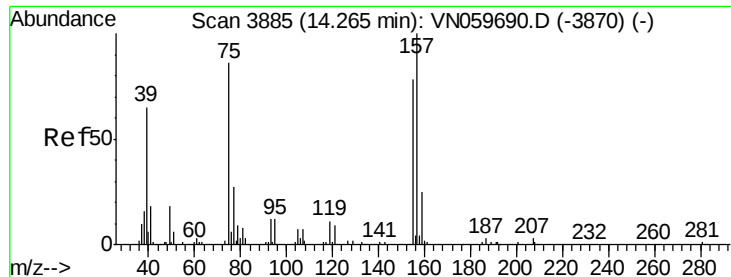


Abundance Ion 74.90 (74.60 to 75.60): VNO

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: 14.31 min Scan# 3900

Delta R.T. 0.05 min

Lab File: VN059857.D

Acq: 24 Jan 2020 19:48

Instrument :

MSVOA_N

ClientSampleId :

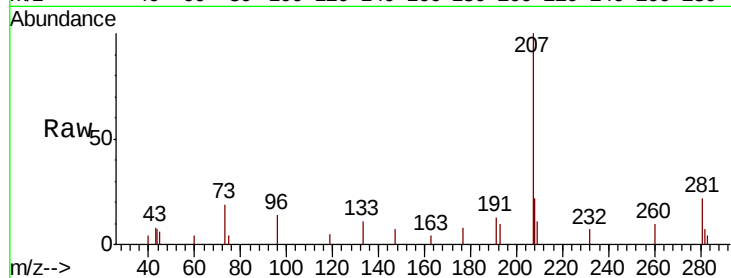
Tot Ion: 75 Resp: 30

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): VN059857.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN059857.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN059857.D (-3791) (-)

