

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012420\
 Data File : VN059858.D
 Acq On : 24 Jan 2020 20:11
 Operator : JC/MD
 Sample : PB126303ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 25 00:31:26 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	210117	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	315366	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	284678	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	117624	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	110303	47.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.54%	
35) Dibromofluoromethane	7.57	113	95412	50.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.46%	
50) Toluene-d8	10.08	98	377394	51.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.58%	
62) 4-Bromofluorobenzene	12.39	95	125982	47.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.92%	

Target Compounds

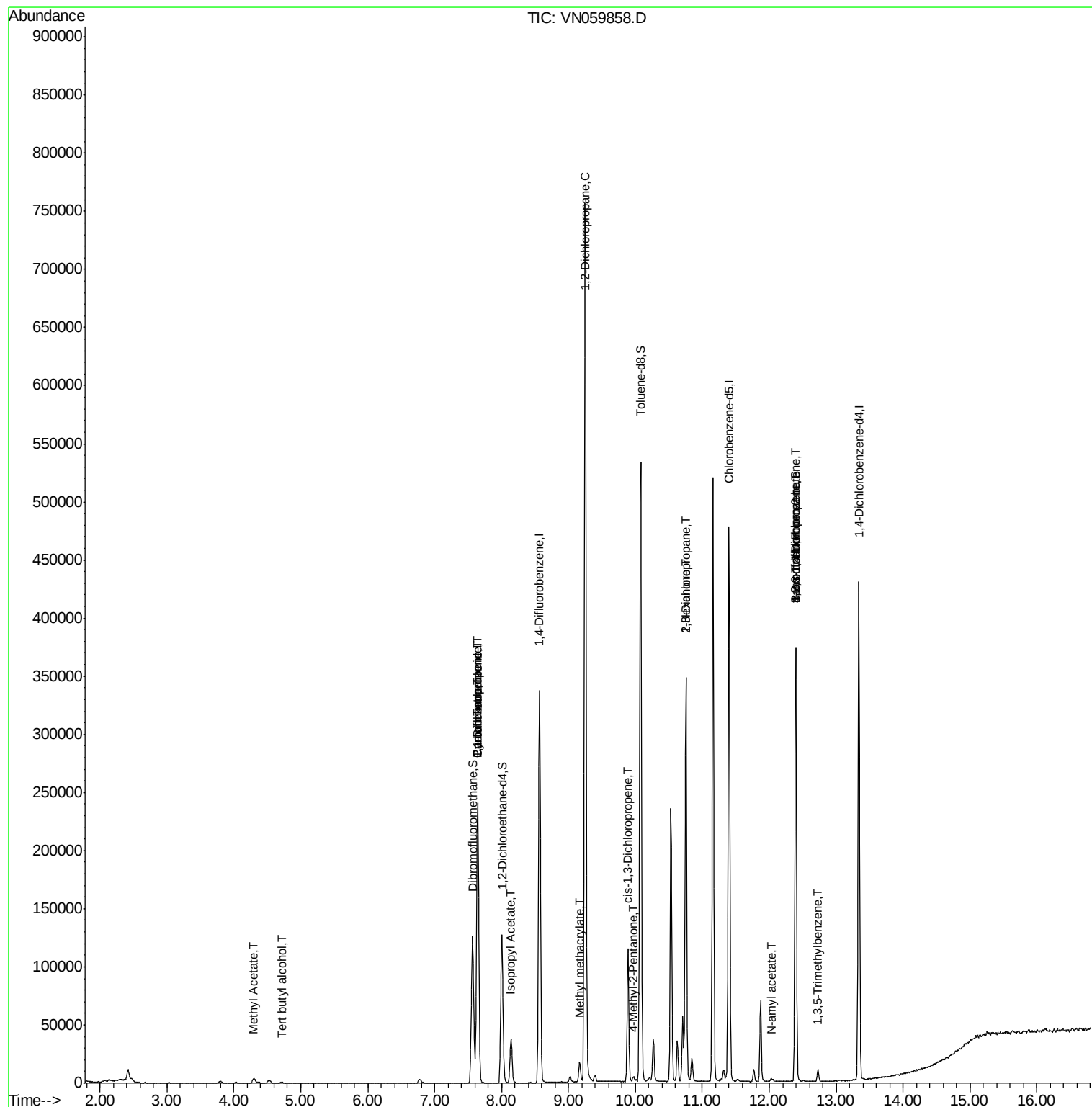
					Qvalue	
11) Tert butyl alcohol	4.72	59	402	1.023	ug/l #	72
16) Acetone	3.79	43	2905	Below Cal		99
18) Methyl Acetate	4.30	43	7705	2.827	ug/l	94
20) Methylene Chloride	4.52	84	2144	Below Cal		93
31) Cyclohexane	7.64	56	4062	1.177	ug/l #	2
36) 1,1-Dichloropropene	7.64	75	14195	5.169	ug/l #	50
38) Carbon Tetrachloride	7.64	117	19301	6.461	ug/l #	16
43) Isopropyl Acetate	8.14	43	44542	10.054	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	835	0.412	ug/l #	44
48) Methyl methacrylate	9.16	41	2349	1.185	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2992	1.168	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	21521	6.358	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3861	1.187	ug/l #	42
59) 2-Hexanone	10.75	43	47649	25.254	ug/l #	55
71) Bromoform	12.40	173	760	0.439	ug/l #	1
74) N-amyl acetate	12.03	43	2425	0.724	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	63091	31.872	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5957	0.821	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.39	75	63091	68.446	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.27	75	29	Below Cal	#	6

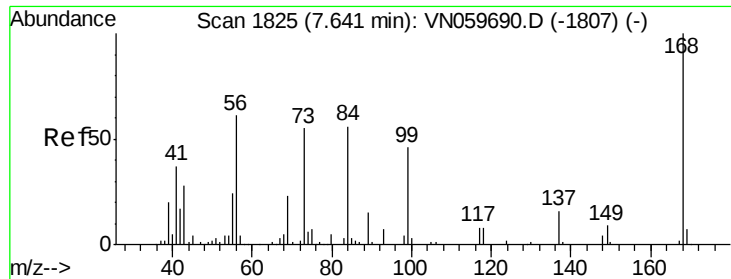
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN059858.D

Acq: 24 Jan 2020 20:11

Instrument :

MSVOA_N

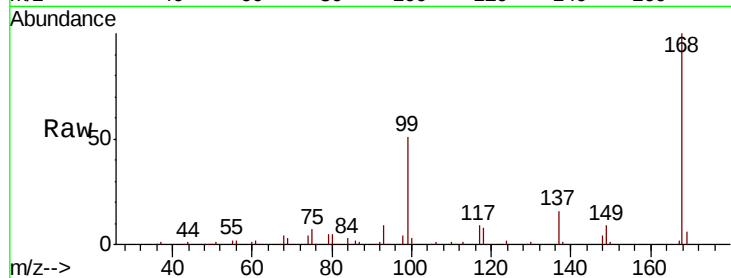
ClientSampled :

Tot Ion:168 Resp: 210117

Ion Ratio Lower Upper

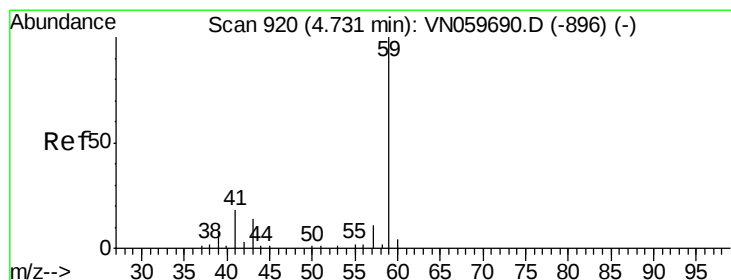
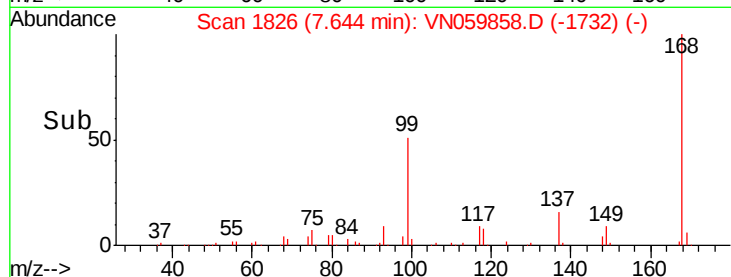
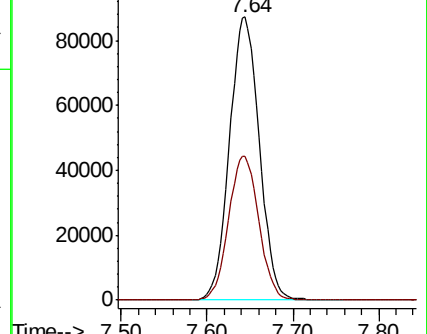
168 100

99 50.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 1.023 ug/l

RT: 4.72 min Scan# 915

Delta R.T. -0.02 min

Lab File: VN059858.D

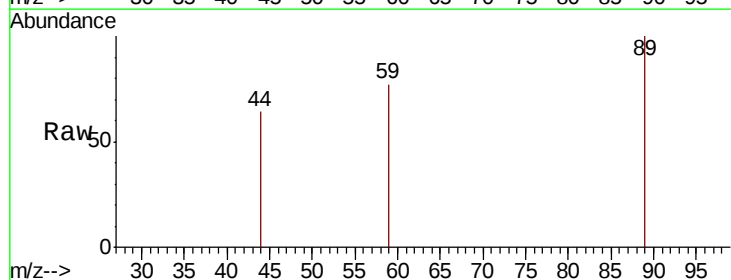
Acq: 24 Jan 2020 20:11

Tgt Ion: 59 Resp: 402

Ion Ratio Lower Upper

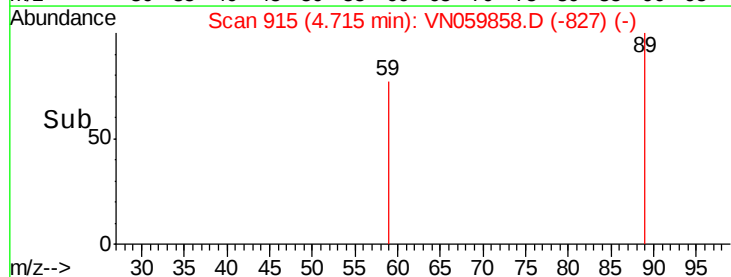
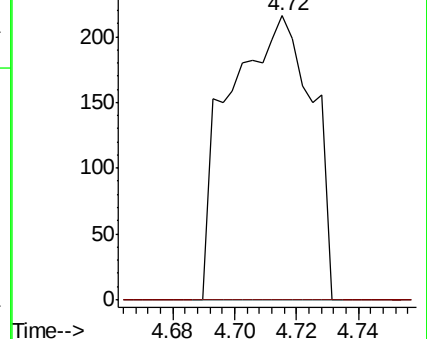
59 100

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





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059858.D

Acq: 24 Jan 2020 20:11

Instrument :

MSVOA_N

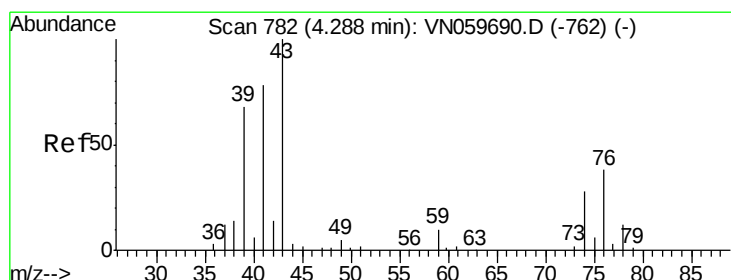
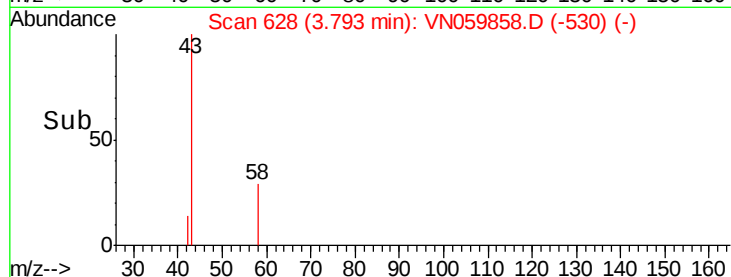
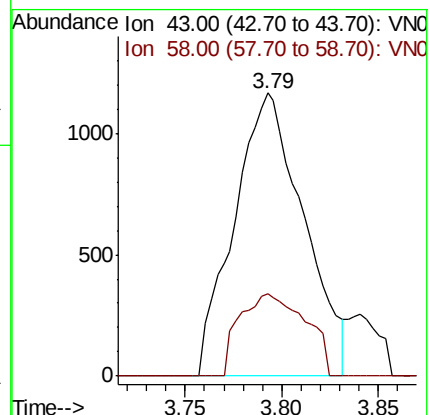
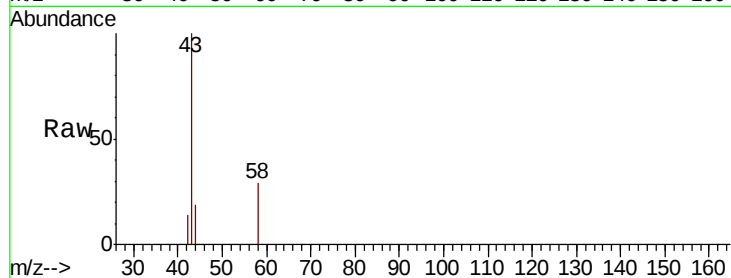
ClientSampled :

Tot Ion: 43 Resp: 2905

Ion Ratio Lower Upper

43 100

58 29.2 23.6 35.4



#18

Methyl Acetate

Concen: 2.827 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.01 min

Lab File: VN059858.D

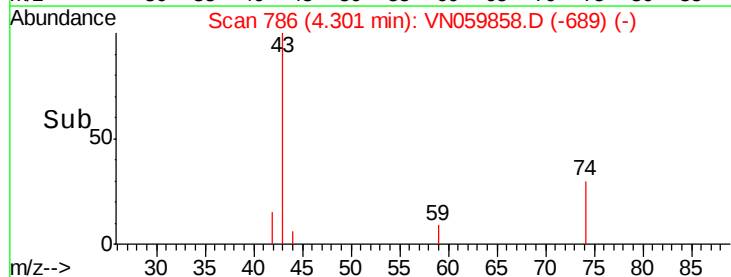
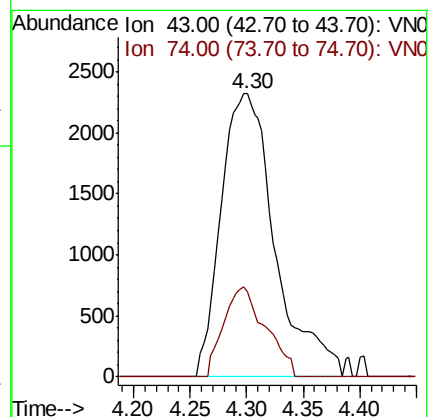
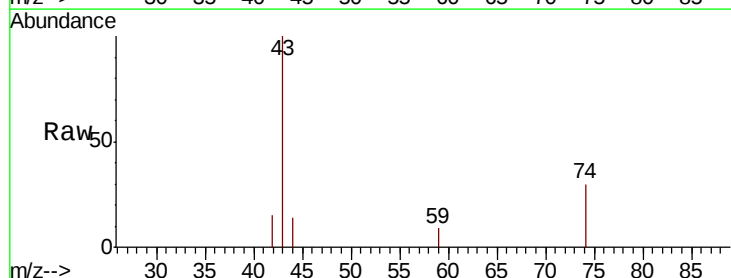
Acq: 24 Jan 2020 20:11

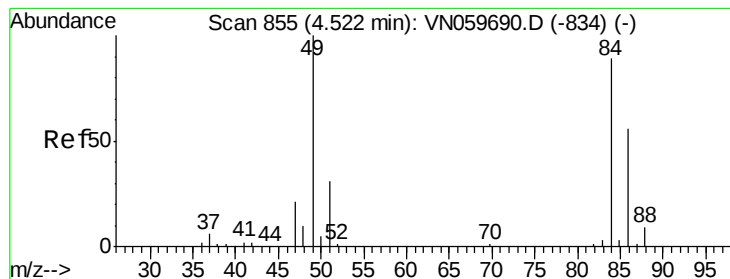
Tgt Ion: 43 Resp: 7705

Ion Ratio Lower Upper

43 100

74 24.6 17.5 26.3





#20

Methylene Chloride

Concen: Below Cal

RT: 4.52 min Scan# 854

Delta R.T. -0.00 min

Lab File: VN059858.D

Acq: 24 Jan 2020 20:11

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 84 Resp: 2144

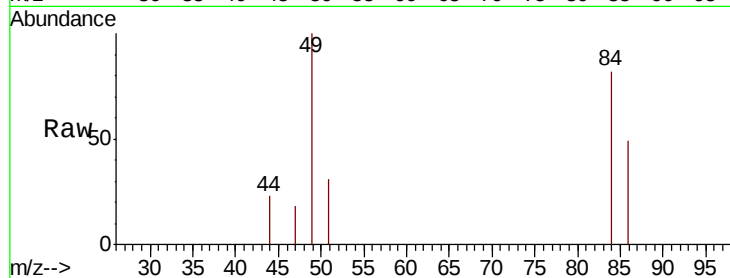
Ion Ratio Lower Upper

84 100

49 121.6 106.6 160.0

51 37.9 31.9 47.9

86 60.0 50.8 76.2

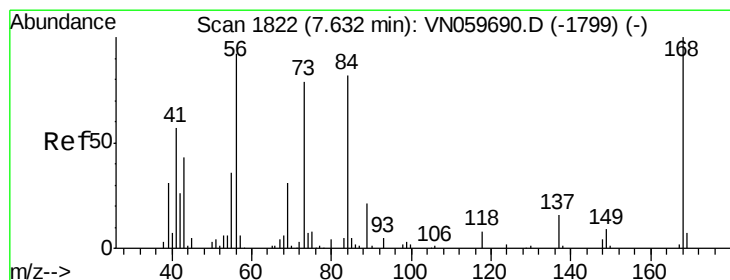
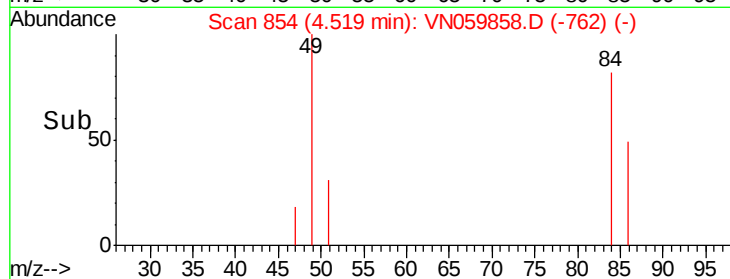
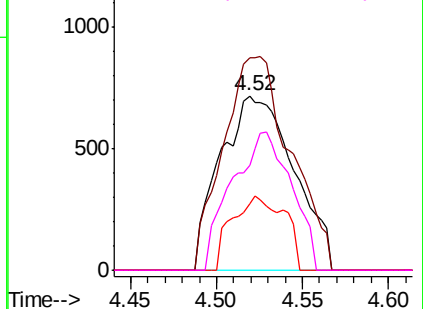


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#31

Cyclohexane

Concen: 1.177 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059858.D

Acq: 24 Jan 2020 20:11

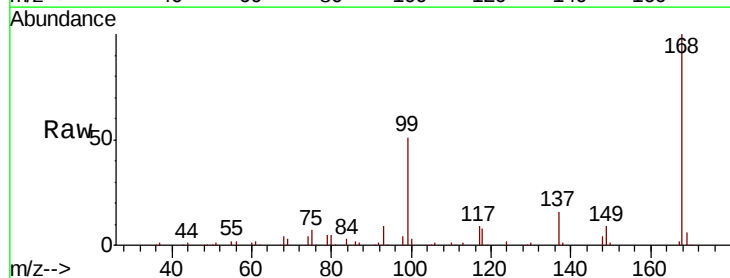
Tgt Ion: 56 Resp: 4062

Ion Ratio Lower Upper

56 100

69 151.1 26.5 39.7#

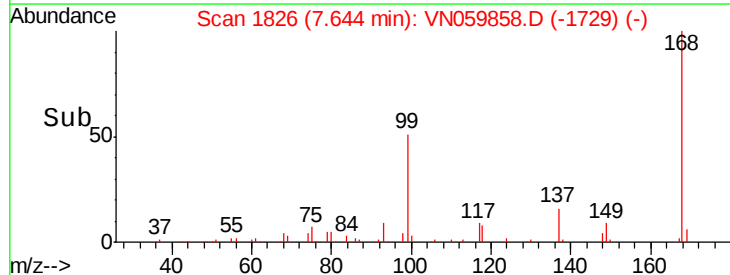
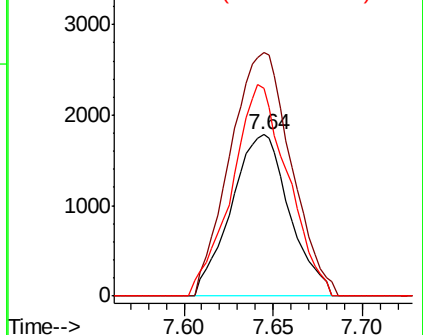
84 129.3 65.3 97.9#



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

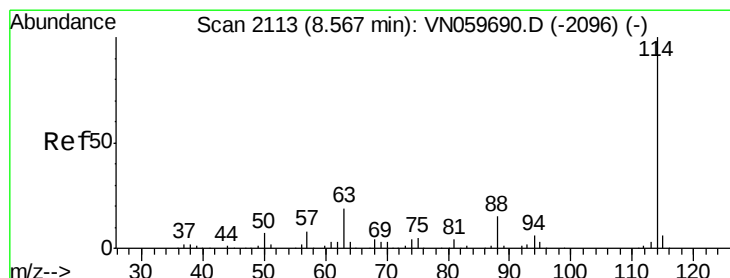
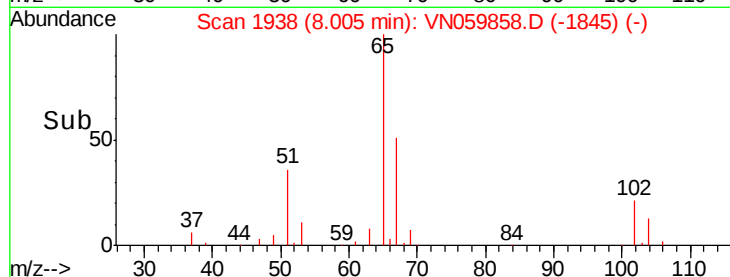
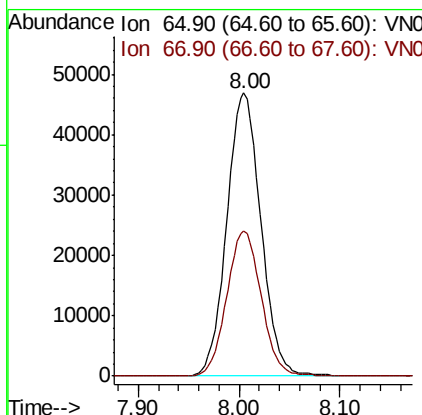
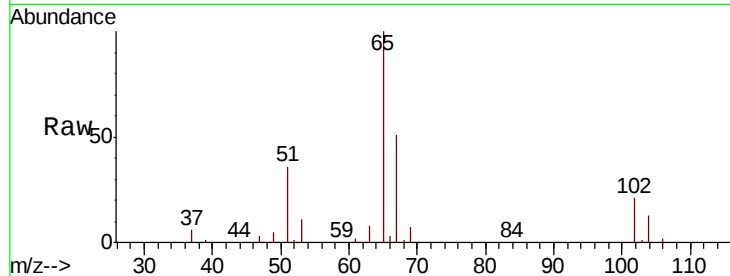




#33
 1,2-Dichloroethane-d4
 Concen: 47.271 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059858.D
 Acq: 24 Jan 2020 20:11

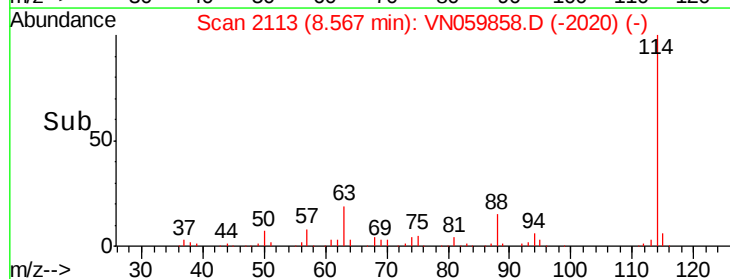
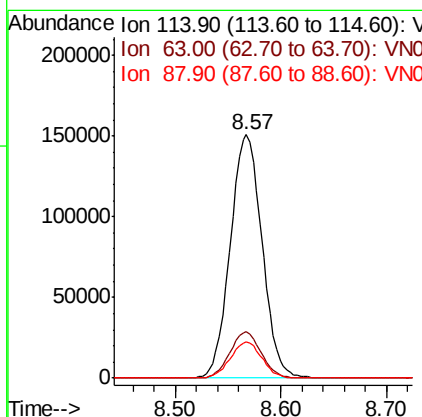
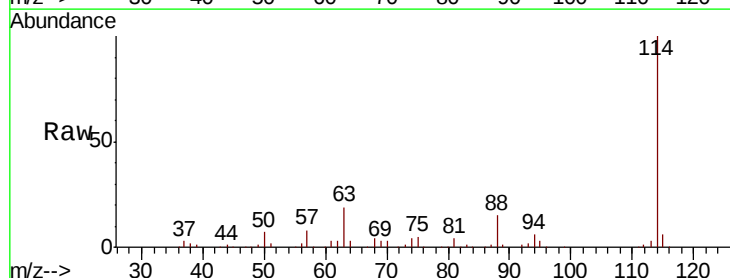
Instrument :
 MSVOA_N
 ClientSampleId :

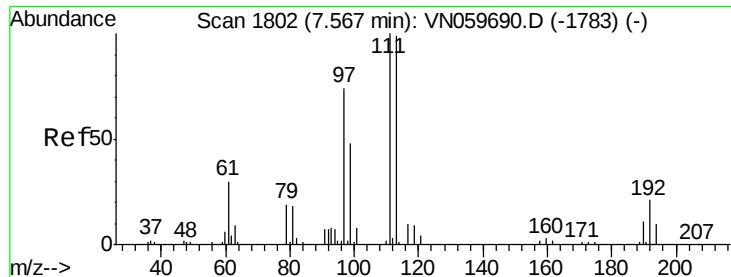
Tot Ion: 65 Resp: 110303
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059858.D
 Acq: 24 Jan 2020 20:11

Tgt Ion: 114 Resp: 315366
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 43.6
 88 14.9 0.0 31.4

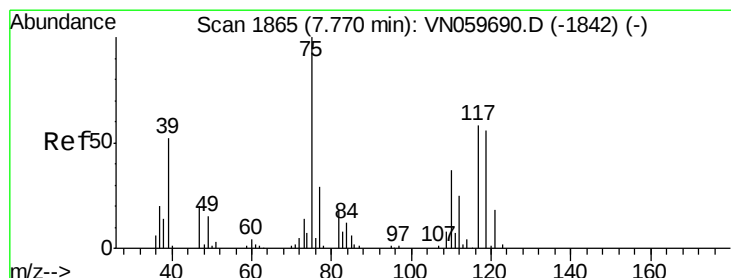
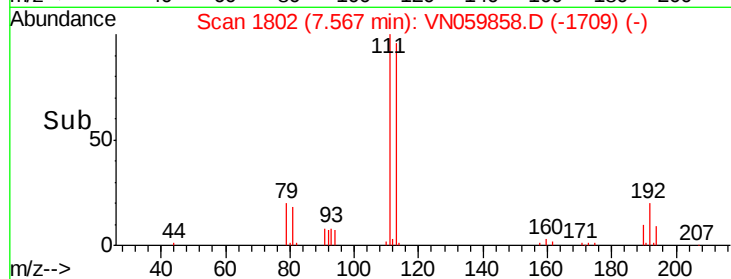
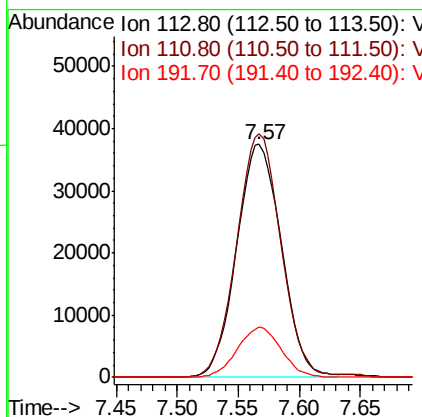
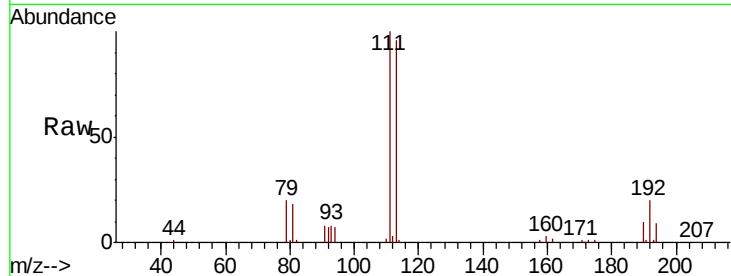




#35
 Dibromofluoromethane
 Concen: 50.733 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059858.D
 Acq: 24 Jan 2020 20:11

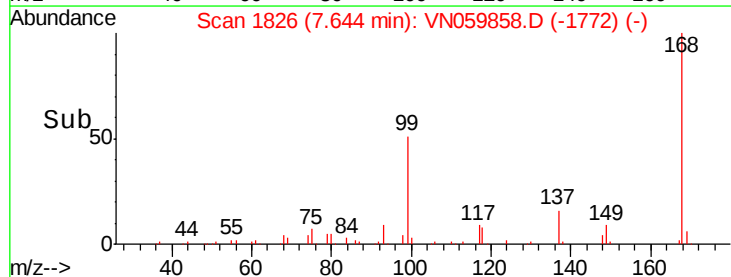
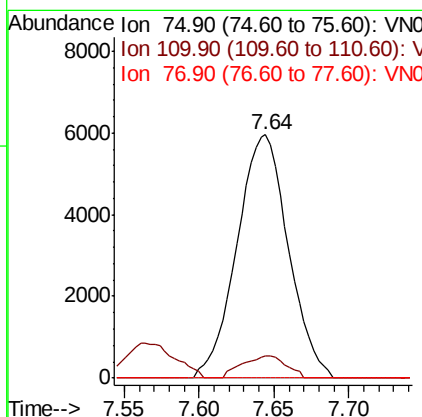
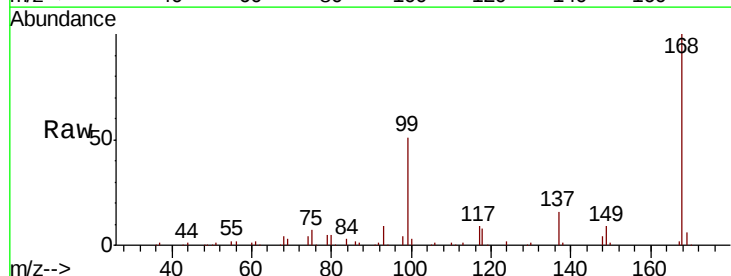
Instrument :
 MSVOA_N
 ClientSampled :

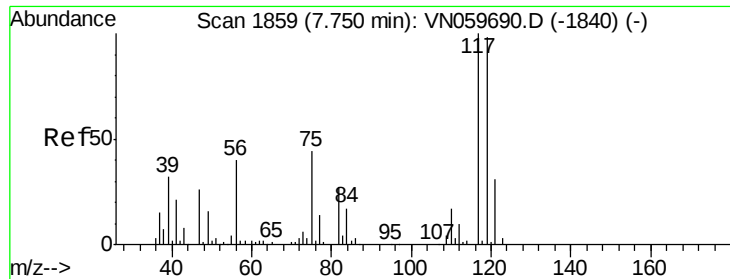
Tot Ion:113 Resp: 95412
 Ion Ratio Lower Upper
 113 100
 111 103.2 83.5 125.3
 192 20.9 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 5.169 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059858.D
 Acq: 24 Jan 2020 20:11

Tgt Ion: 75 Resp: 14195
 Ion Ratio Lower Upper
 75 100
 110 7.9 16.6 49.7#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.461 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059858.D

Acq: 24 Jan 2020 20:11

Instrument :
MSVOA_N
ClientSampled :

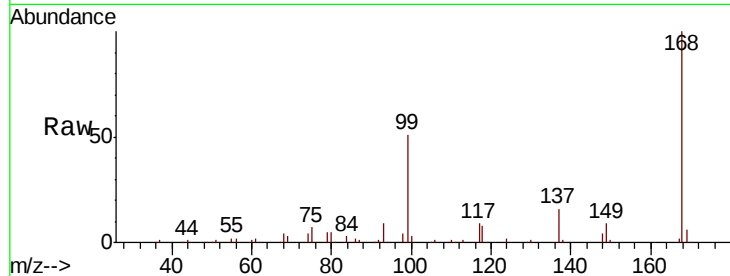
Tot Ion:117 Resp: 19301

Ion Ratio Lower Upper

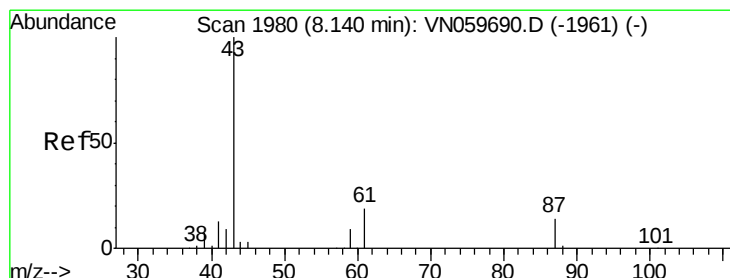
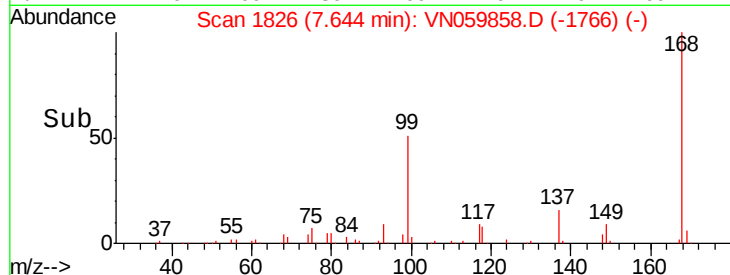
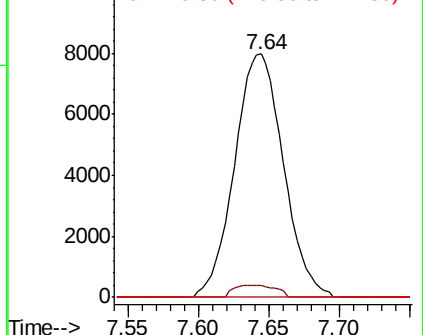
117 100

119 4.7 76.5 114.7#

121 0.0 25.1 37.7#



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



#43

Isopropyl Acetate

Concen: 10.054 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059858.D

Acq: 24 Jan 2020 20:11

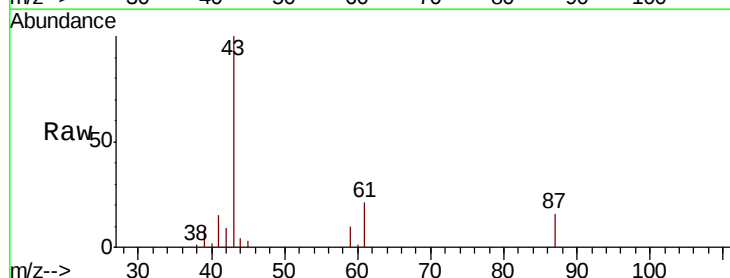
Tgt Ion: 43 Resp: 44542

Ion Ratio Lower Upper

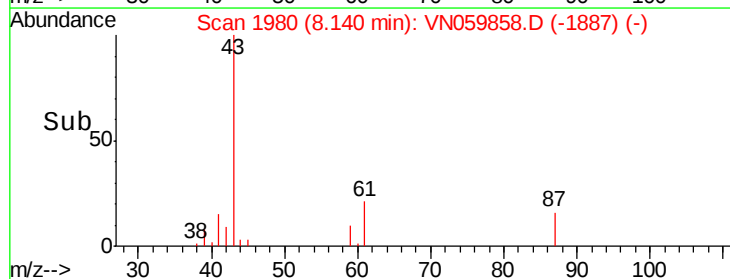
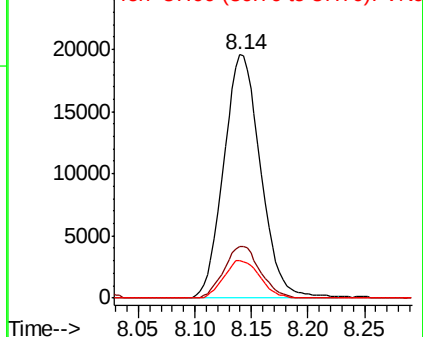
43 100

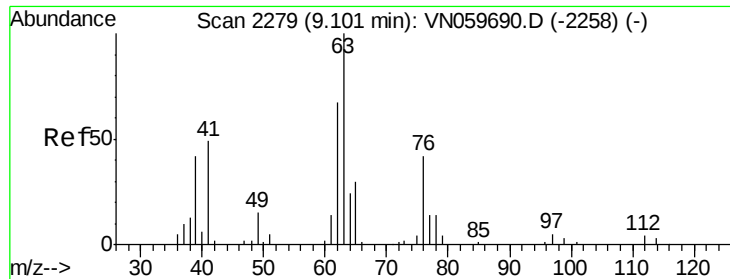
61 20.7 20.2 30.2

87 15.0 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

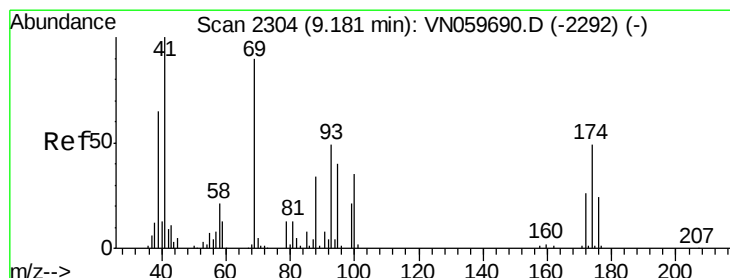
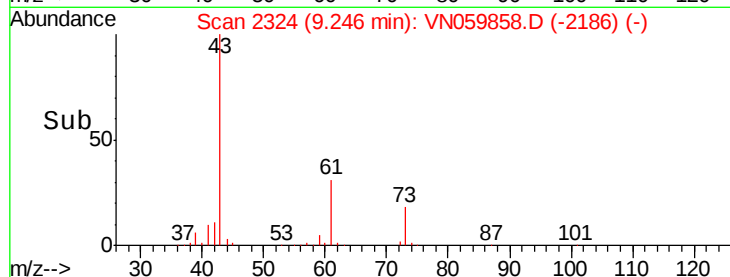
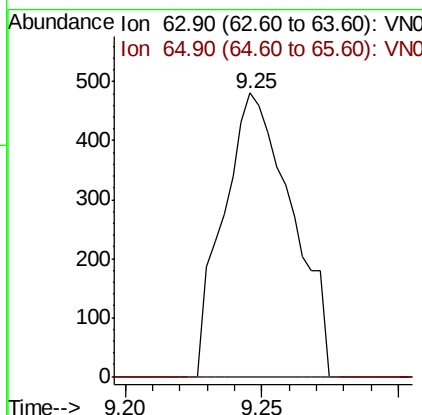
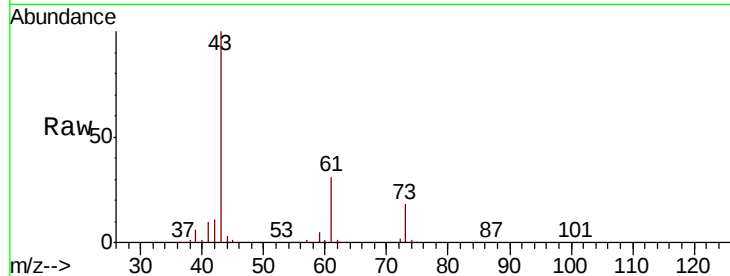




#45
 1,2-Dichloropropane
 Concen: 0.412 ug/l
 RT: 9.25 min Scan# 2324
 Delta R.T. 0.14 min
 Lab File: VN059858.D
 Acq: 24 Jan 2020 20:11

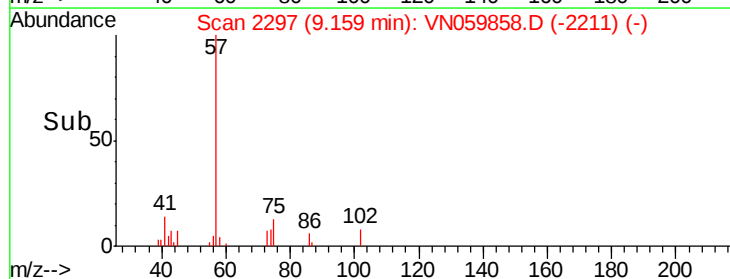
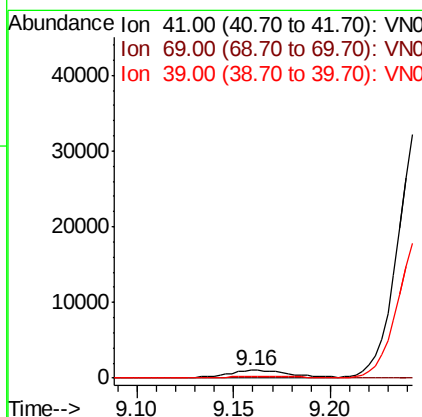
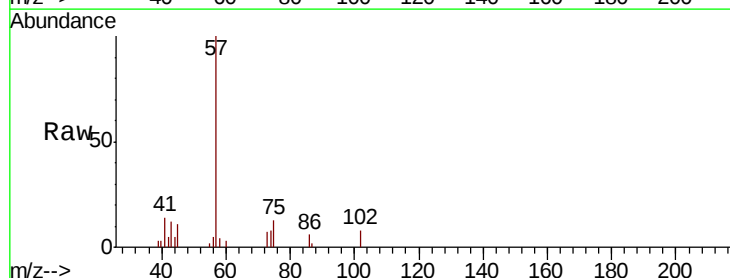
Instrument :
 MSVOA_N
 ClientSampled :

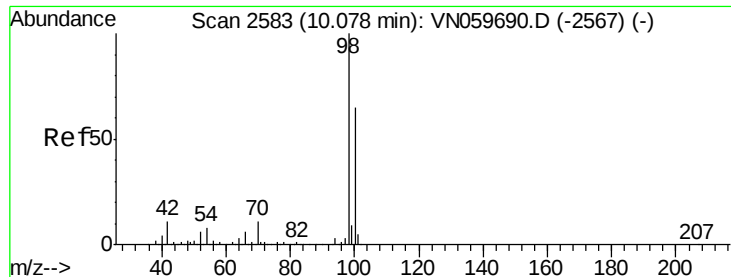
Tot Ion: 63 Resp: 835
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.9 37.3#



#48
 Methyl methacrylate
 Concen: 1.185 ug/l
 RT: 9.16 min Scan# 2297
 Delta R.T. -0.02 min
 Lab File: VN059858.D
 Acq: 24 Jan 2020 20:11

Tgt 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: 51.793 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059858.D

Acq: 24 Jan 2020 20:11

Instrument :

MSVOA_N

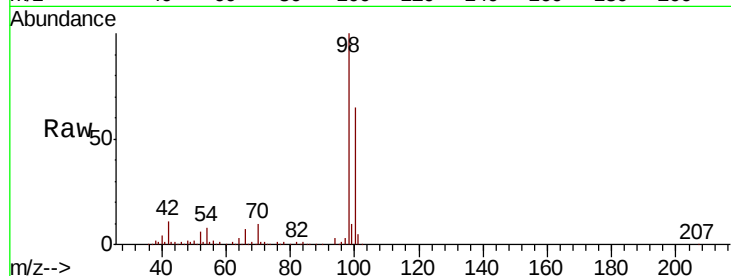
ClientSampled :

Tot Ion: 98 Resp: 377394

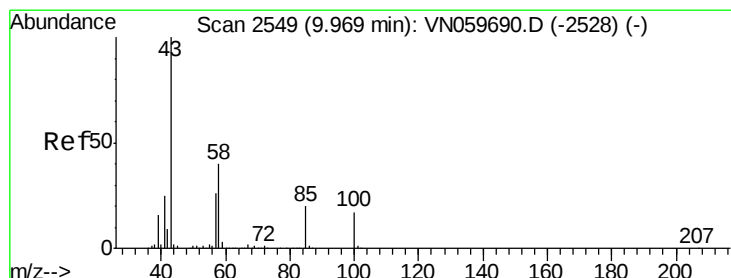
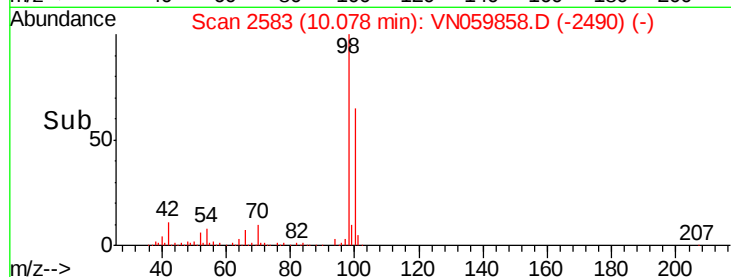
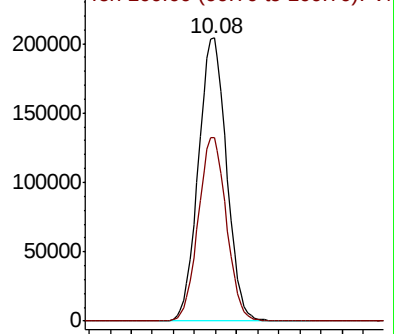
Ion Ratio Lower Upper

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: 1.168 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN059858.D

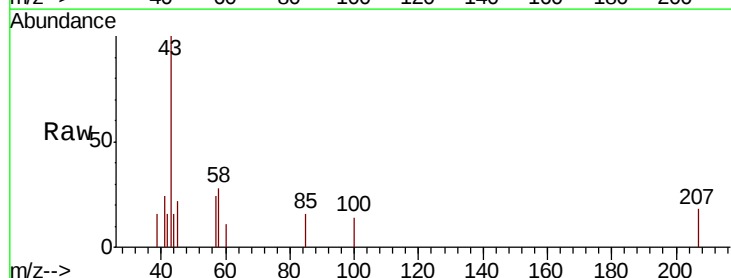
Acq: 24 Jan 2020 20:11

Tgt Ion: 43 Resp: 2992

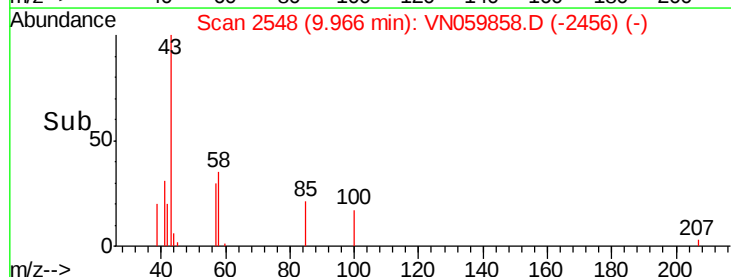
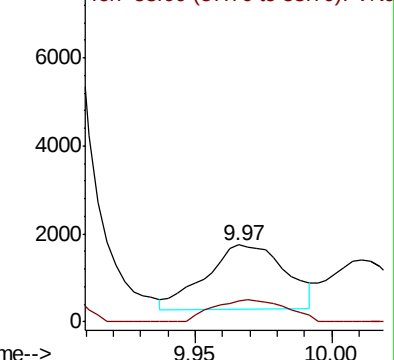
Ion Ratio Lower Upper

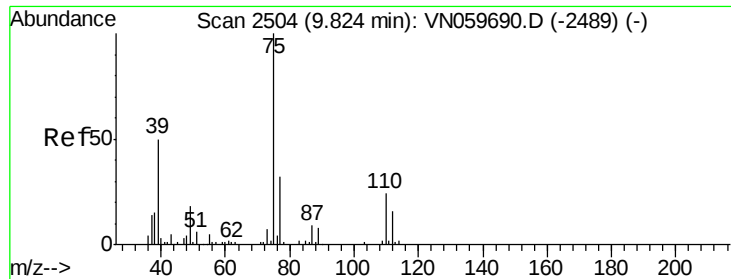
43 100

58 31.6 29.8 44.8



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





#54

cis-1,3-Dichloropropene

Concen: 6.358 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059858.D

Acq: 24 Jan 2020 20:11

Instrument :

MSVOA_N

ClientSampleId :

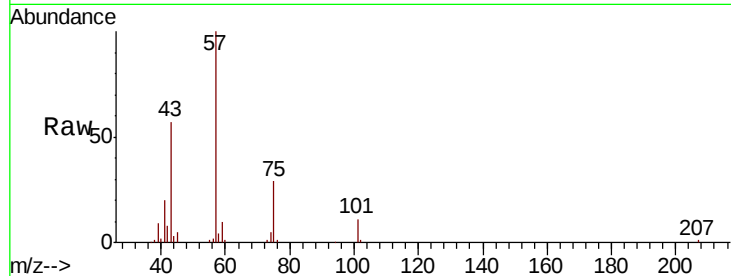
Tot Ion: 75 Resp: 21521

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

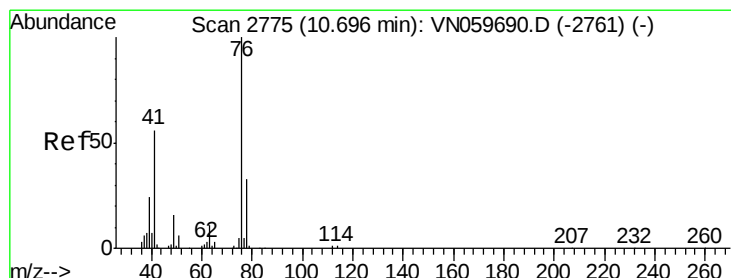
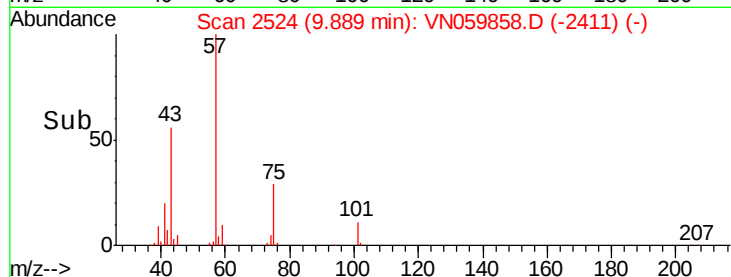
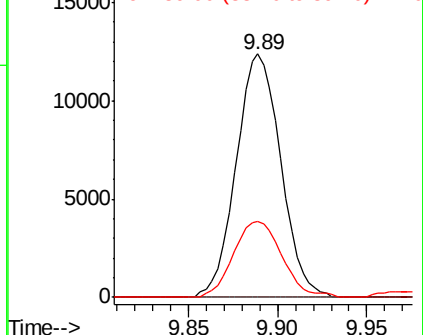
39 31.4 46.1 69.1#



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: 1.187 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059858.D

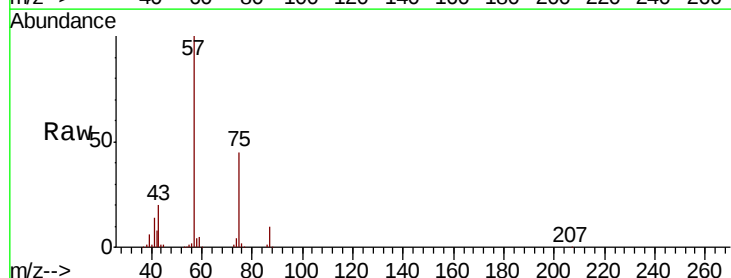
Acq: 24 Jan 2020 20:11

Tgt Ion: 76 Resp: 3861

Ion Ratio Lower Upper

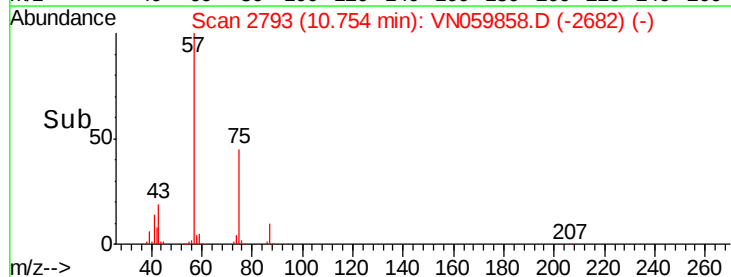
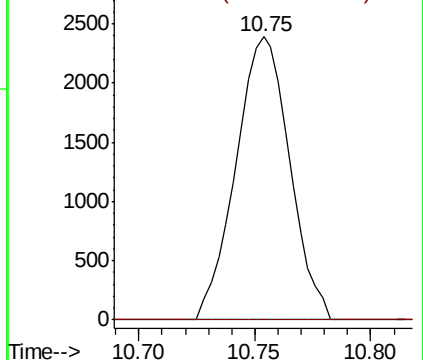
76 100

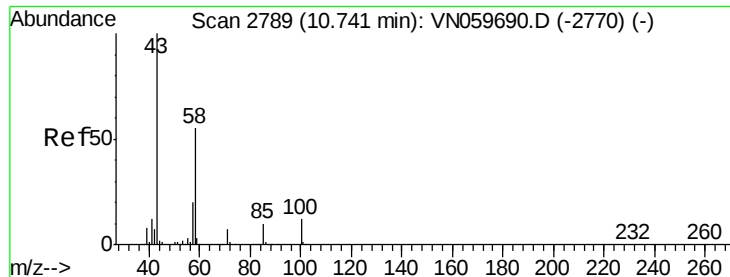
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

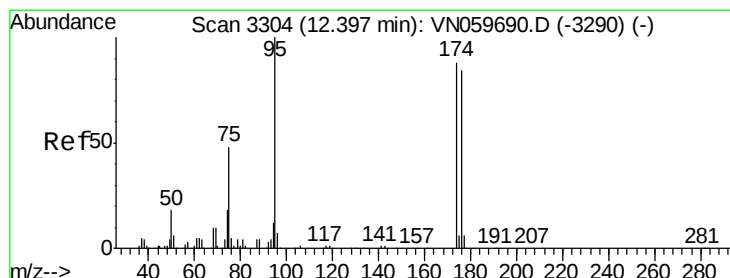
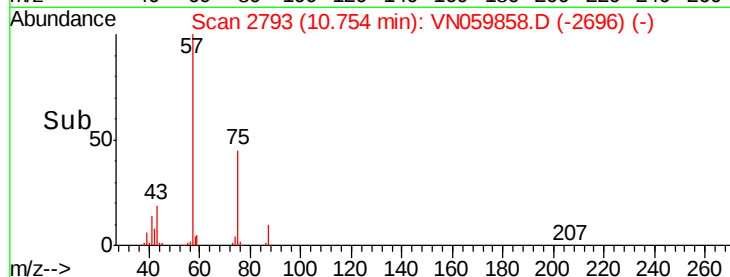
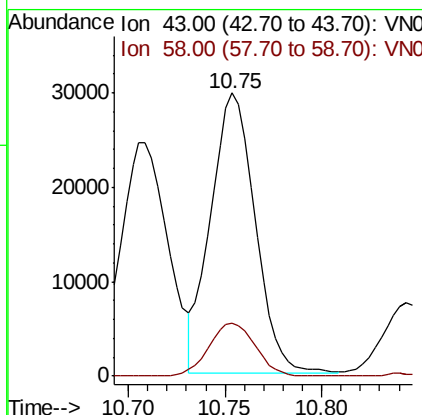
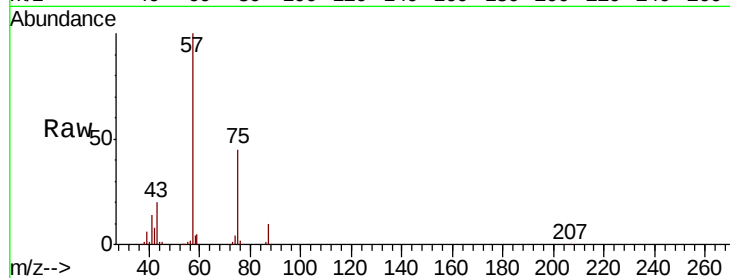




#59
2-Hexanone
Concen: 25.254 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059858.D
Acq: 24 Jan 2020 20:11

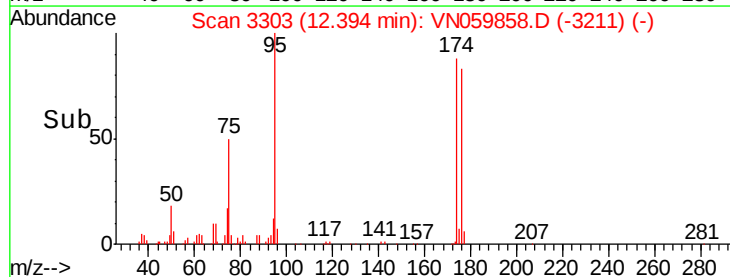
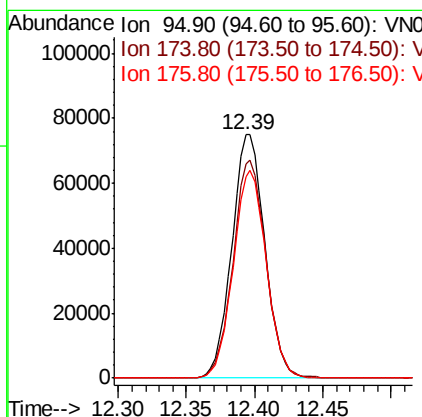
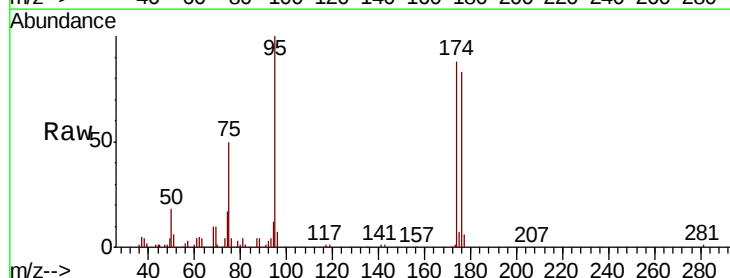
Instrument :
MSVOA_N
ClientSampled :

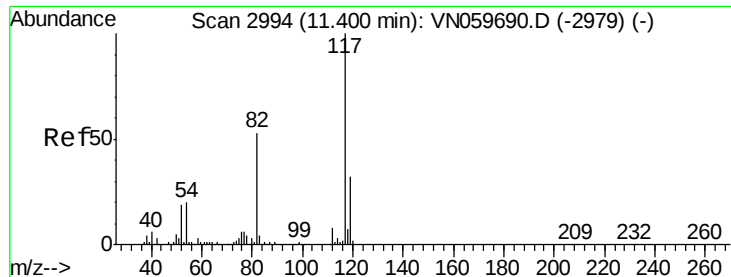
Tot Ion: 43 Resp: 47649
Ion Ratio Lower Upper
43 100
58 19.7 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 47.960 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. -0.00 min
Lab File: VN059858.D
Acq: 24 Jan 2020 20:11

Tgt Ion: 95 Resp: 125982
Ion Ratio Lower Upper
95 100
174 89.2 0.0 151.4
176 85.3 0.0 146.0

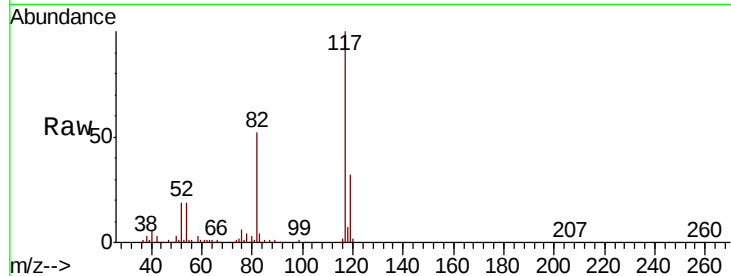




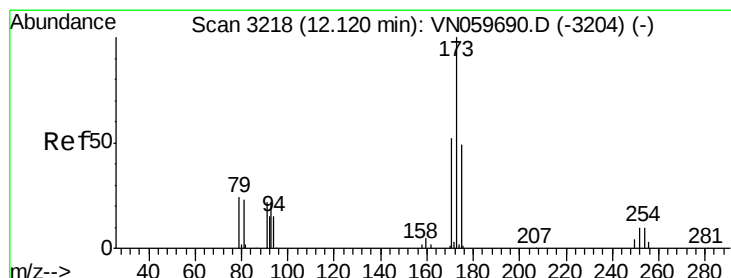
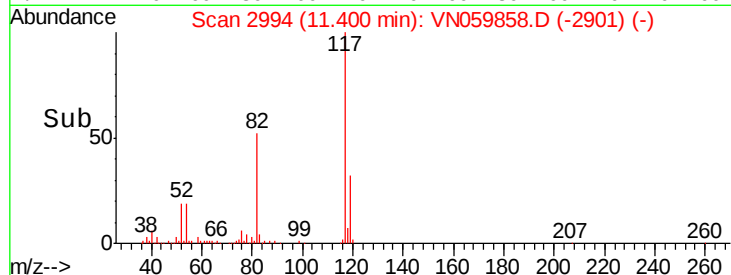
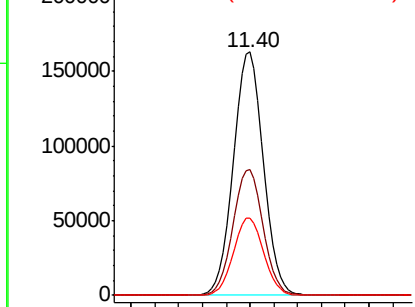
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059858.D
Acq: 24 Jan 2020 20:11

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 284678
Ion Ratio Lower Upper
117 100
82 51.5 45.9 68.9
119 31.9 25.5 38.3

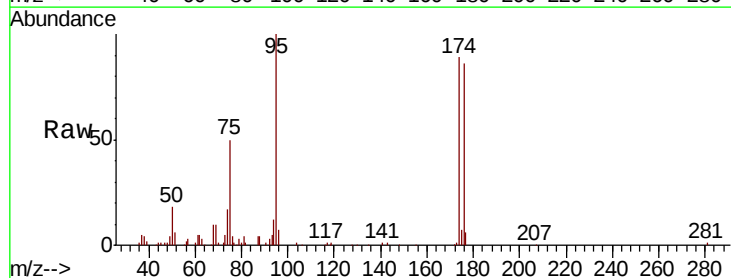


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

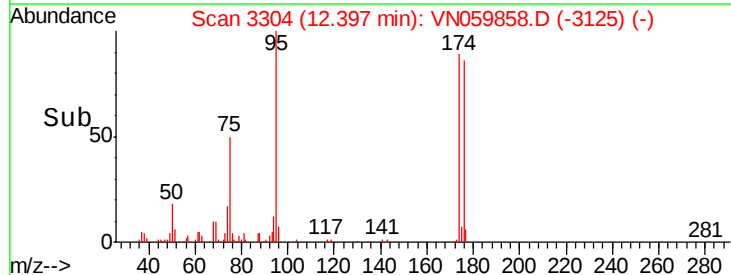
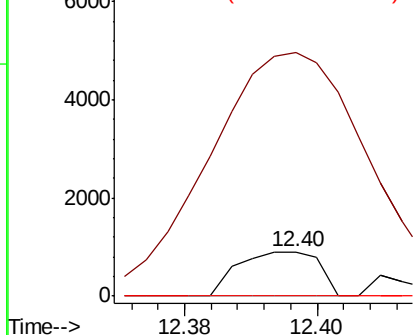


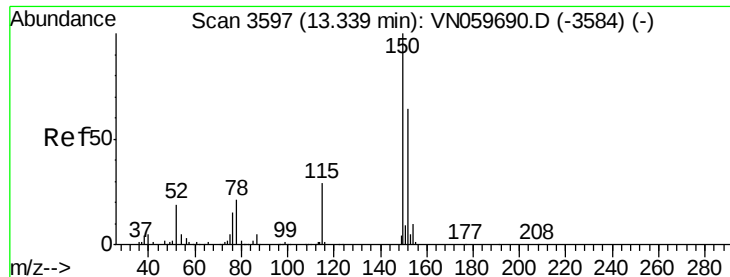
#71
Bromoform
Concen: 0.439 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN059858.D
Acq: 24 Jan 2020 20:11

Tgt Ion:173 Resp: 760
Ion Ratio Lower Upper
173 100
175 959.2 23.8 71.4#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VN059858.D

Acq: 24 Jan 2020 20:11

Instrument :

MSVOA_N

ClientSampled :

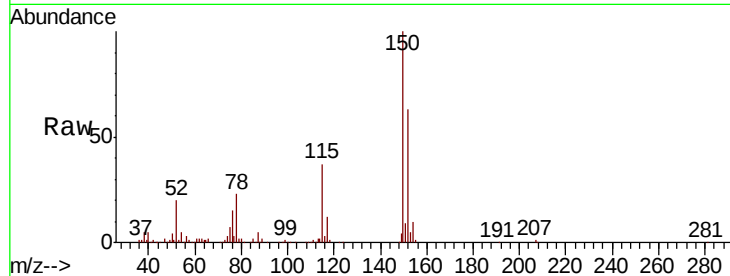
Tot Ion:152 Resp: 117624

Ion Ratio Lower Upper

152 100

115 58.2 30.3 90.9

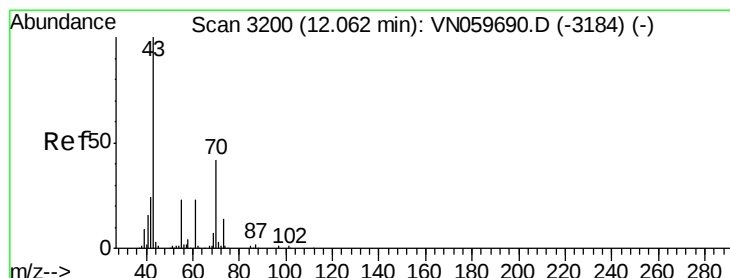
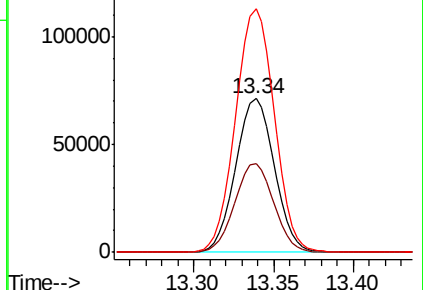
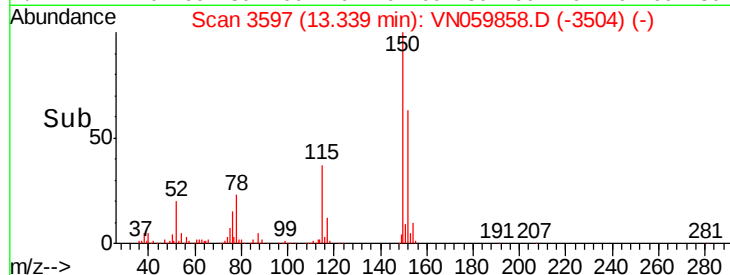
150 159.2 0.0 345.2



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: 0.724 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059858.D

Acq: 24 Jan 2020 20:11

Tgt Ion: 43 Resp: 2425

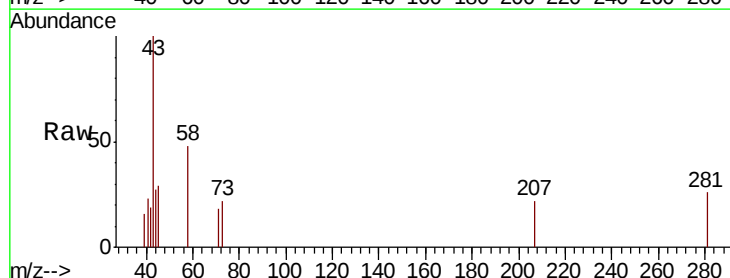
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

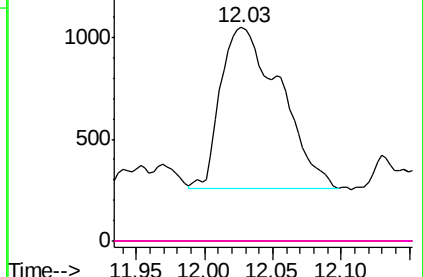
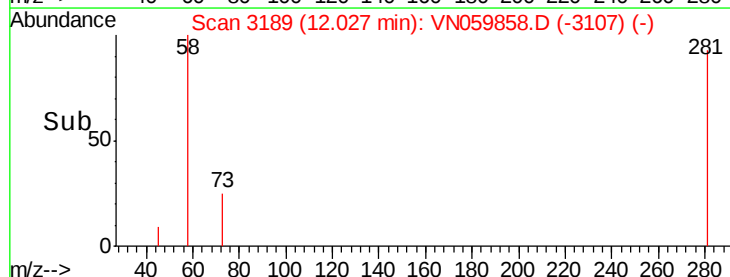


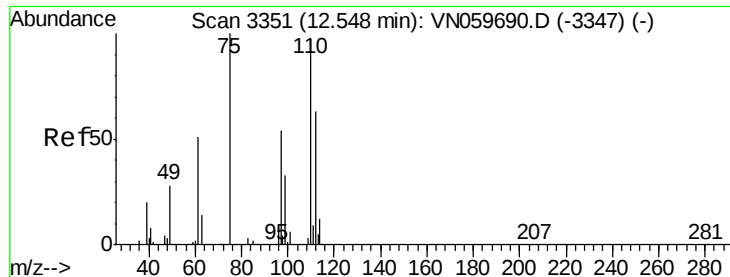
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

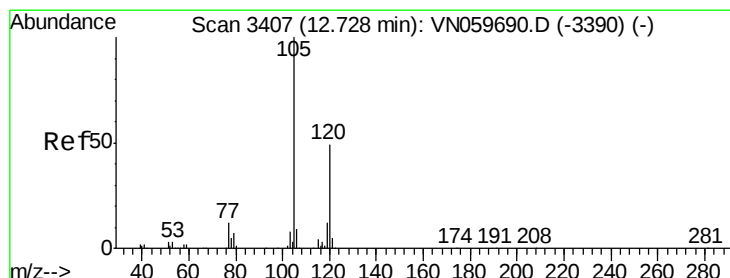
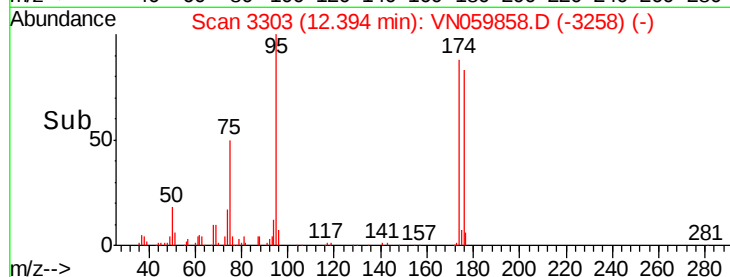
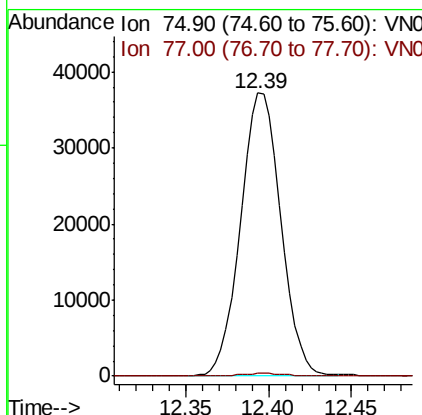
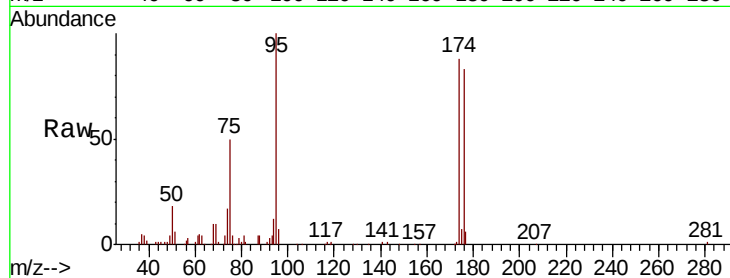




#76
 1,2,3-Trichloropropane
 Concen: 31.872 ug/l
 RT: 12.39 min Scan# 3303
 Delta R.T. -0.15 min
 Lab File: VN059858.D
 Acq: 24 Jan 2020 20:11

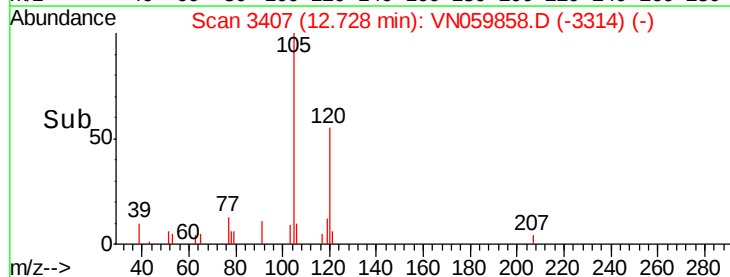
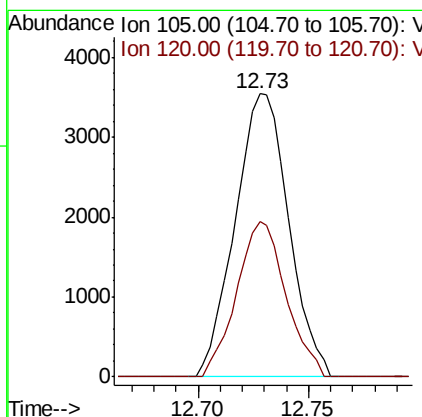
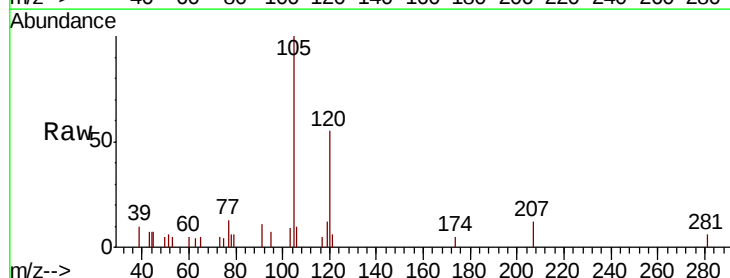
Instrument :
 MSVOA_N
 ClientSampled :

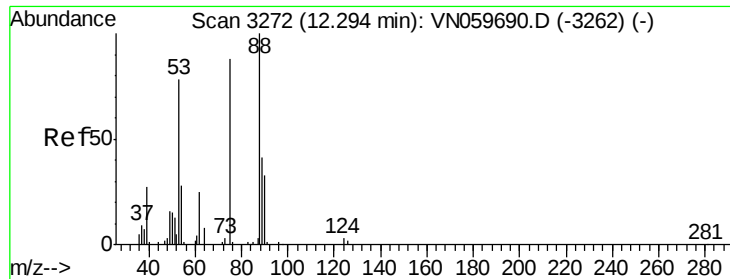
Tot Ion: 75 Resp: 63091
 Ion Ratio Lower Upper
 75 100
 77 0.9 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.821 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. 0.00 min
 Lab File: VN059858.D
 Acq: 24 Jan 2020 20:11

Tgt Ion: 105 Resp: 5957
 Ion Ratio Lower Upper
 105 100
 120 50.5 24.1 72.4





#81

trans-1,4-Dichloro-2-butene

Concen: 68.446 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN059858.D

Acq: 24 Jan 2020 20:11

Instrument :

MSVOA_N

ClientSampleId :

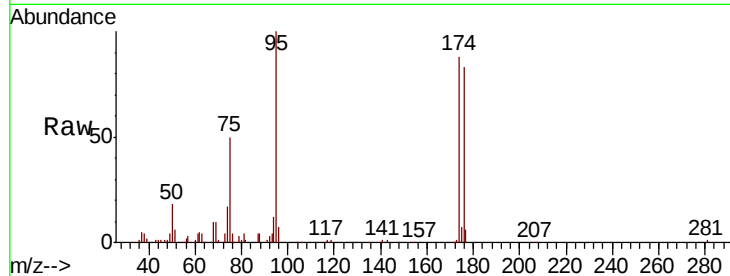
Tot Ion: 75 Resp: 63091

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

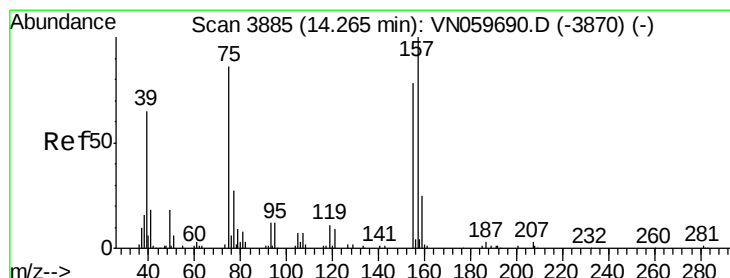
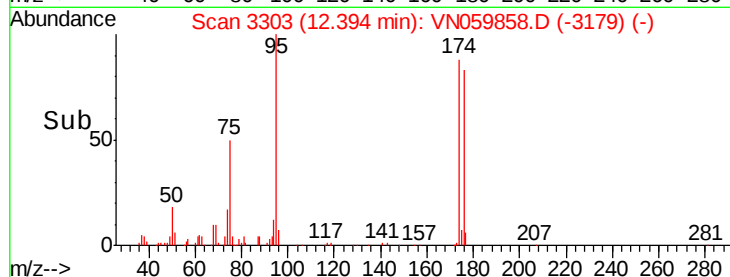
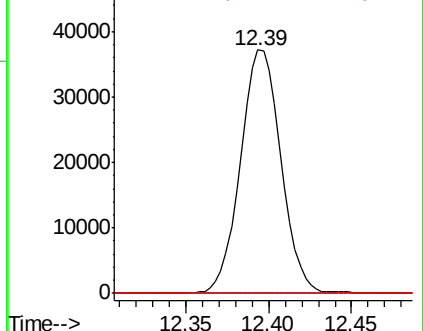
89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3888

Delta R.T. 0.01 min

Lab File: VN059858.D

Acq: 24 Jan 2020 20:11

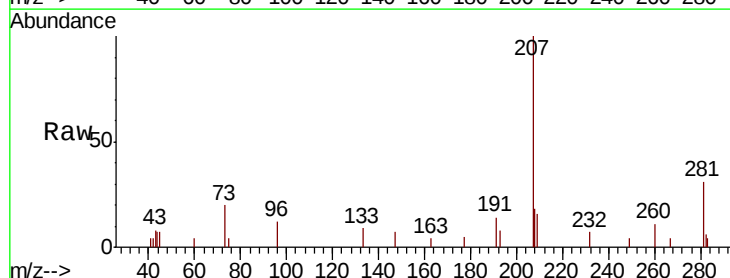
Tgt Ion: 75 Resp: 29

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

