

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012420\
 Data File : VN059846.D
 Acq On : 24 Jan 2020 15:30
 Operator : JC/MD
 Sample : L1244-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 25 00:28:43 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	214606	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	320932	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	282602	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	111029	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	112920	47.38	ug/l	0.00
Spiked Amount						
			Recovery	=	94.76%	
35) Dibromofluoromethane	7.57	113	97064	50.72	ug/l	0.00
Spiked Amount						
			Recovery	=	101.44%	
50) Toluene-d8	10.08	98	378049	50.98	ug/l	0.00
Spiked Amount						
			Recovery	=	101.96%	
62) 4-Bromofluorobenzene	12.40	95	123355	46.15	ug/l	0.00
Spiked Amount						
			Recovery	=	92.30%	

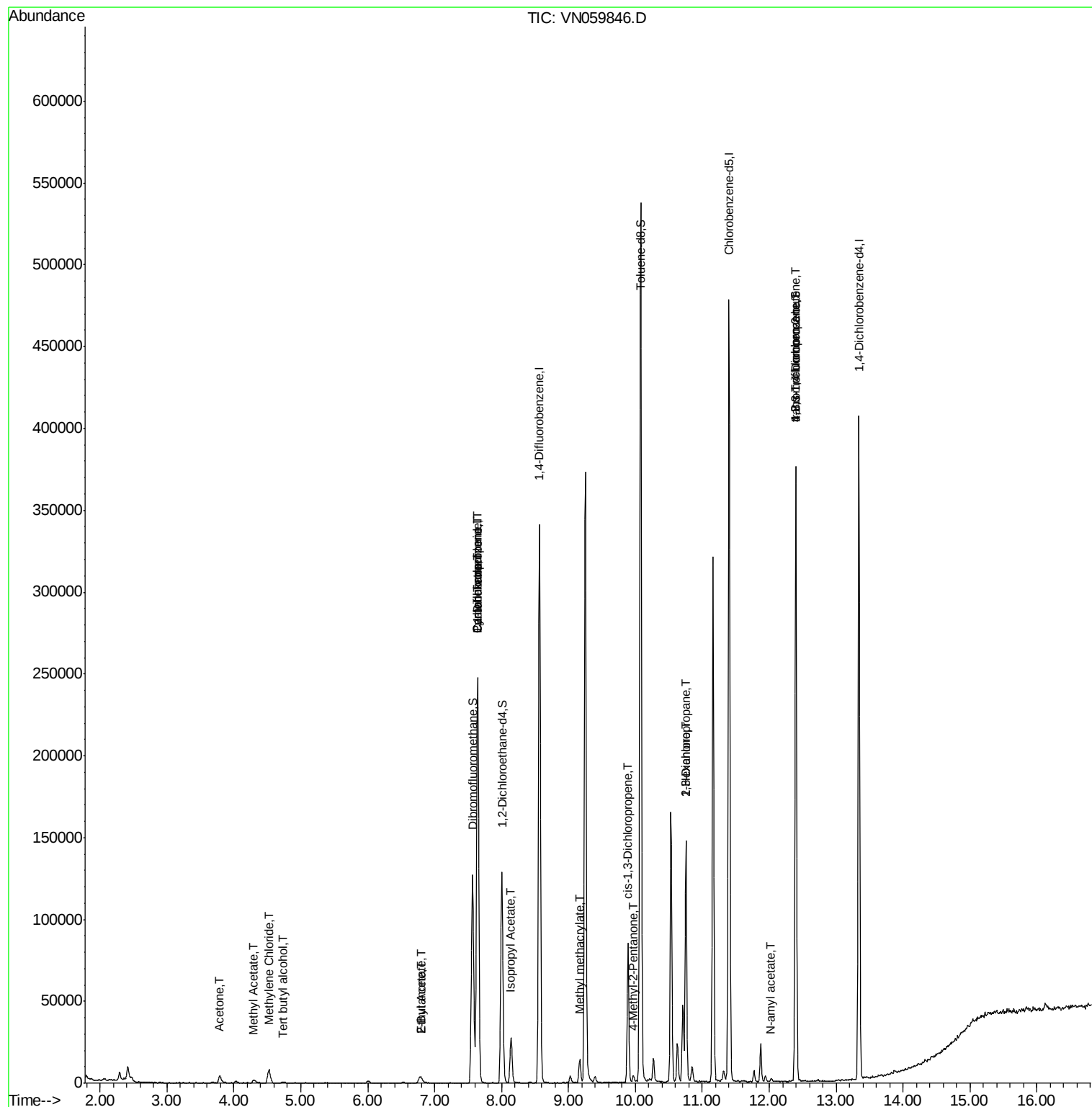
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	387	0.965	ug/l #	72
16) Acetone	3.79	43	8312	0.224	ug/l	92
18) Methyl Acetate	4.29	43	1868	0.671	ug/l #	88
20) Methylene Chloride	4.53	84	6529	1.780	ug/l	85
25) 2-Butanone	6.81	43	3753	2.781	ug/l #	86
31) Cyclohexane	7.64	56	4030	1.143	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14050	5.027	ug/l #	52
37) Ethyl Acetate	6.81	43	3753	1.432	ug/l #	69
38) Carbon Tetrachloride	7.64	117	19467	6.403	ug/l #	16
43) Isopropyl Acetate	8.14	43	33055	7.331	ug/l #	91
48) Methyl methacrylate	9.17	41	2339	1.160	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2320	0.890	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	16441	4.773	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	1544	0.466	ug/l #	42
59) 2-Hexanone	10.75	43	21218	11.050	ug/l #	58
74) N-amyl acetate	12.03	43	2079	0.658	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	61091	32.695	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	61091	70.213	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.29	75	134	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# 1826

Delta R.T. 0.00 min

Lab File: VN059846.D

Acq: 24 Jan 2020 15:30

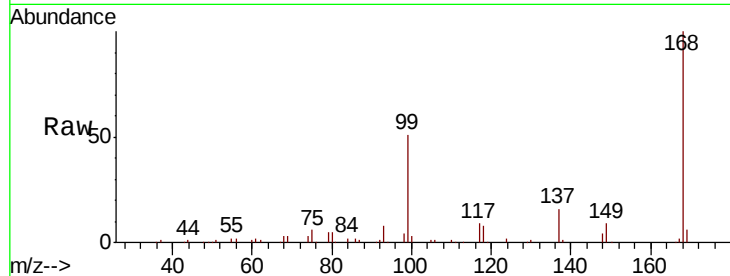
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 214606

Ion Ratio Lower Upper

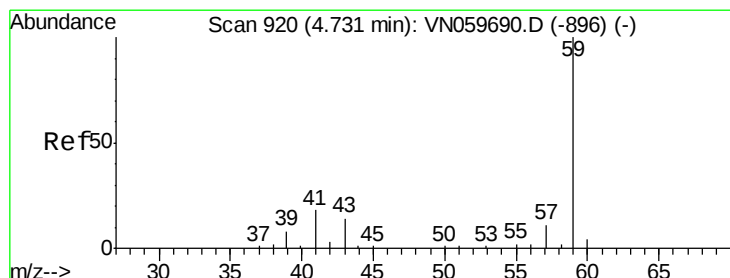
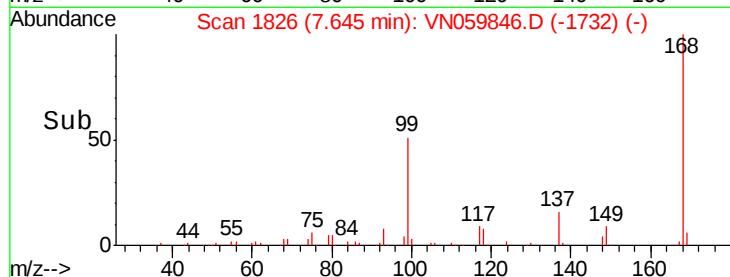
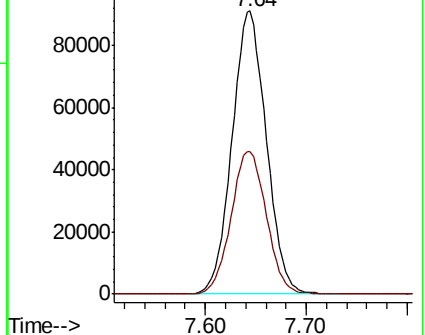
168 100

99 50.5 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: 0.965 ug/l

RT: 4.74 min Scan# 924

Delta R.T. 0.01 min

Lab File: VN059846.D

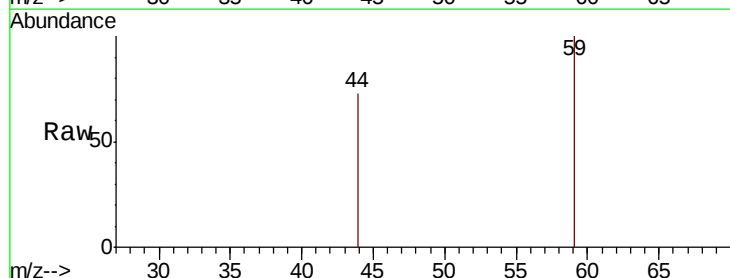
Acq: 24 Jan 2020 15:30

Tgt Ion: 59 Resp: 387

Ion Ratio Lower Upper

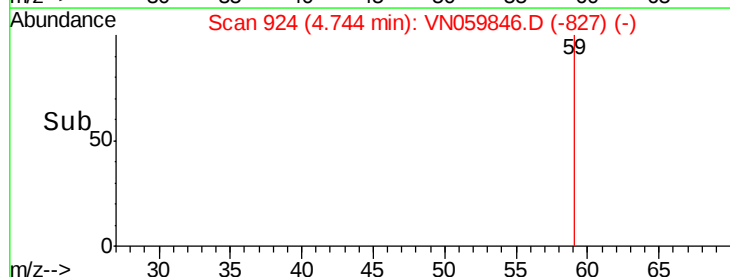
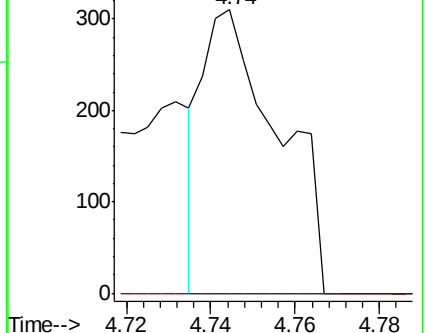
59 100

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: 0.224 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN059846.D

Acq: 24 Jan 2020 15:30

Instrument :

MSVOA_N

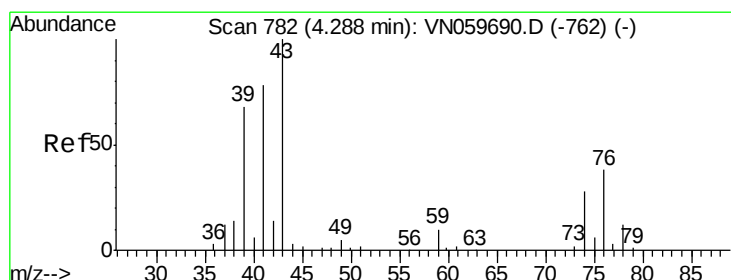
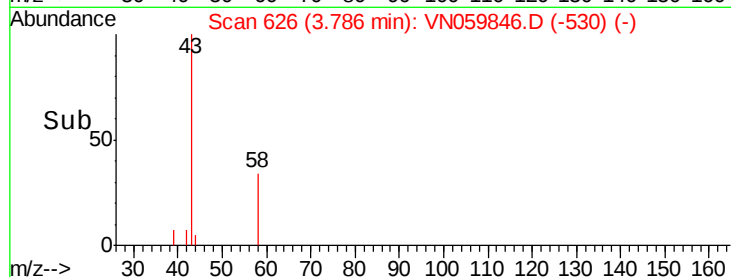
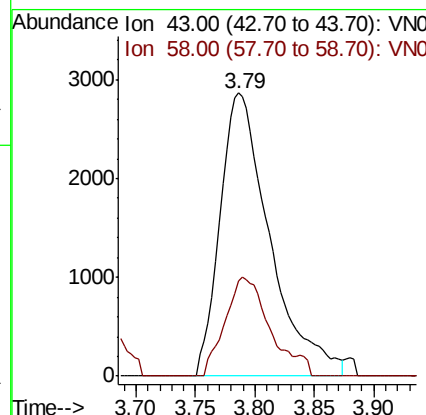
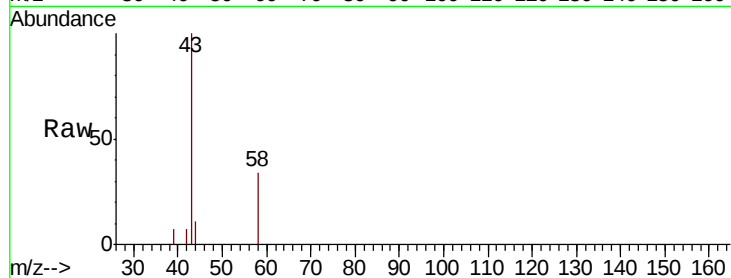
ClientSampleId :

Tot Ion: 43 Resp: 8312

Ion Ratio Lower Upper

43 100

58 33.7 23.6 35.4



#18

Methyl Acetate

Concen: 0.671 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN059846.D

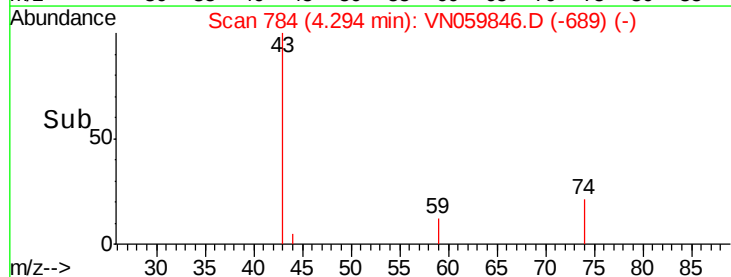
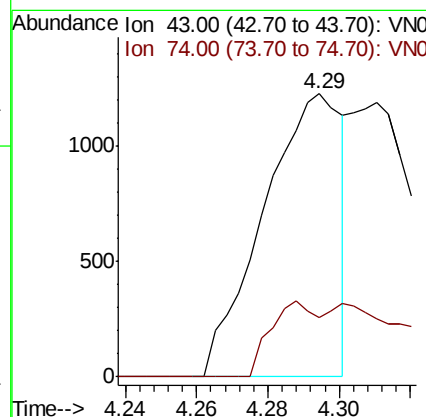
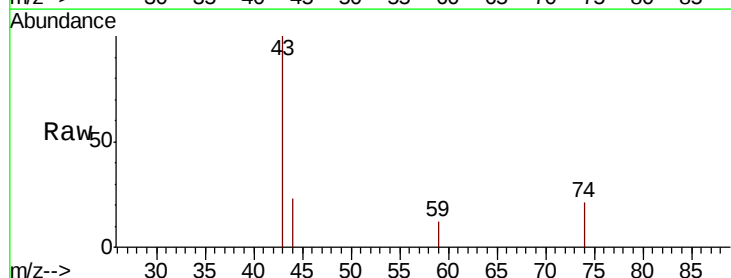
Acq: 24 Jan 2020 15:30

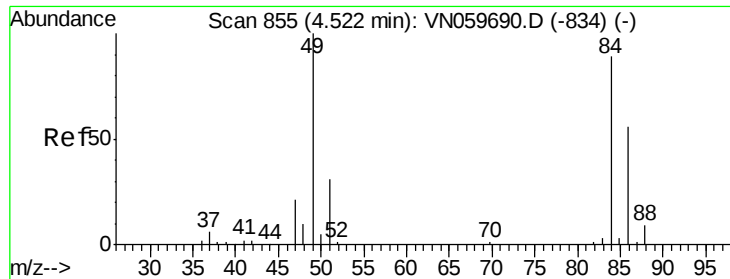
Tgt Ion: 43 Resp: 1868

Ion Ratio Lower Upper

43 100

74 16.0 17.5 26.3#

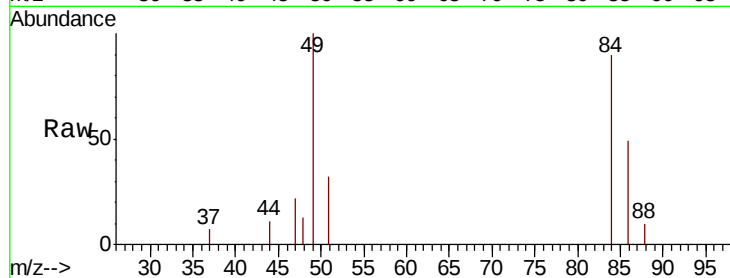




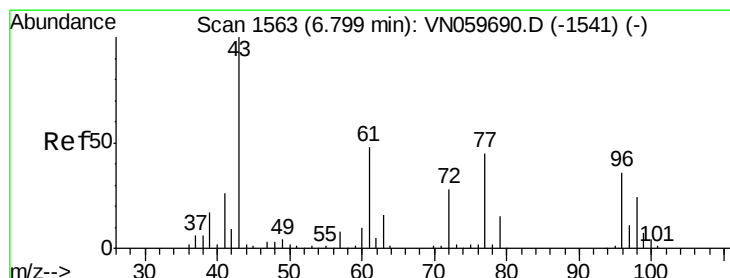
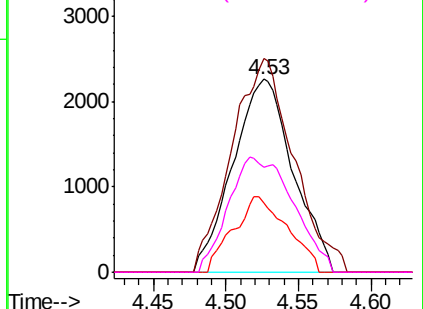
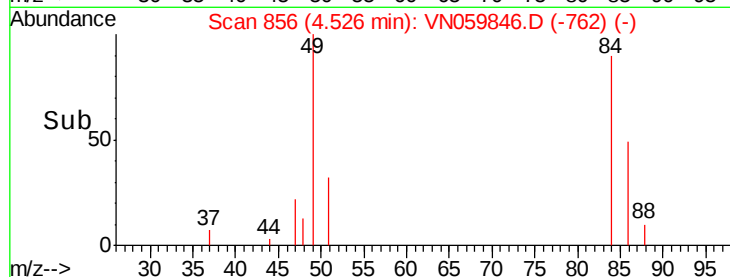
#20
Methvlene Chloride
Concen: 1.780 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059846.D
Acq: 24 Jan 2020 15:30

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 6529
Ion Ratio Lower Upper
84 100
49 110.8 106.6 160.0
51 35.7 31.9 47.9
86 54.4 50.8 76.2

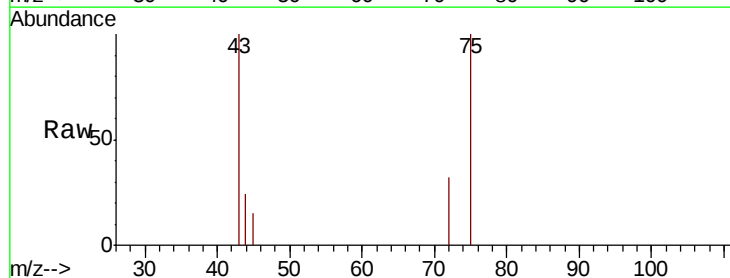


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

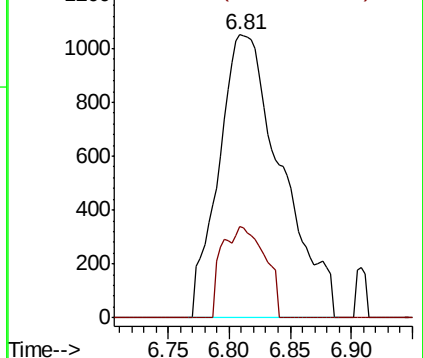
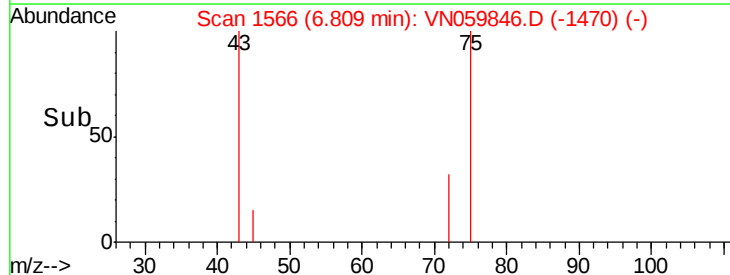


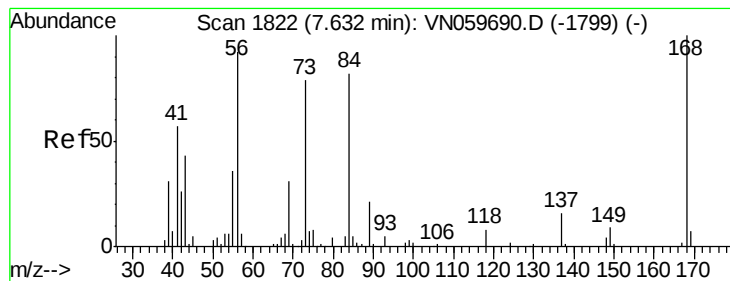
#25
2-Butanone
Concen: 2.781 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VN059846.D
Acq: 24 Jan 2020 15:30

Tgt Ion: 43 Resp: 3753
Ion Ratio Lower Upper
43 100
72 32.2 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 72.00 (71.70 to 72.70): VNC





#31

Cyclohexane

Concen: 1.143 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059846.D

Acq: 24 Jan 2020 15:30

Instrument :

MSVOA_N

ClientSampleId :

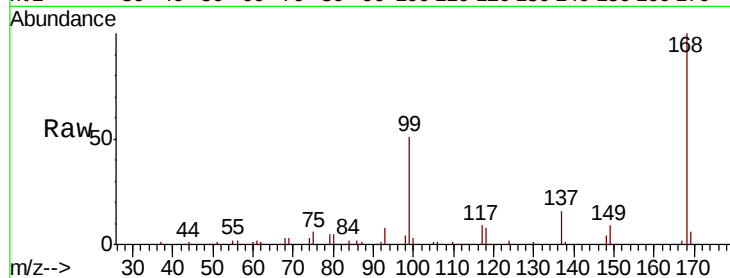
Tot Ion: 56 Resp: 4030

Ion Ratio Lower Upper

56 100

69 165.2 26.5 39.7#

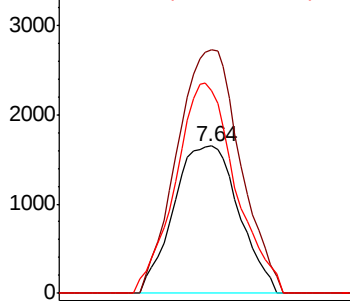
84 137.8 65.3 97.9#



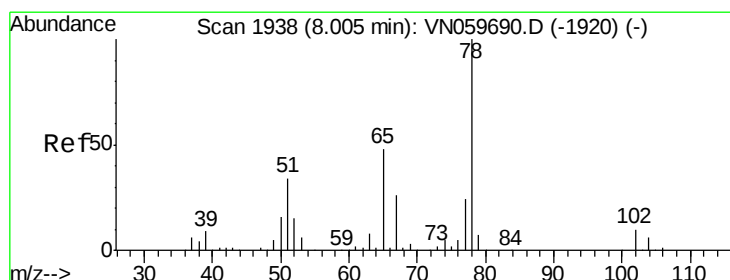
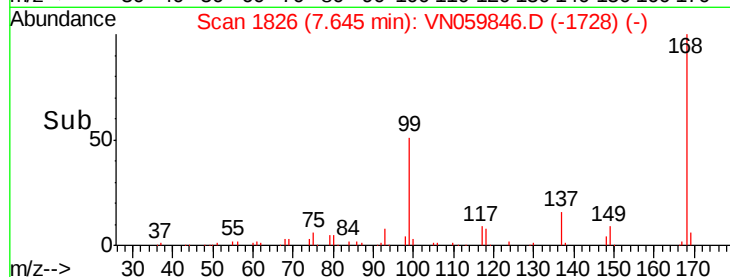
Abundance Ion 56.00 (55.70 to 56.70): VN059690.D (-1799) (-)

Ion 69.00 (68.70 to 69.70): VN059690.D (-1799) (-)

Ion 84.00 (83.70 to 84.70): VN059690.D (-1799) (-)



Time-->



#33

1,2-Dichloroethane-d4

Concen: 47.381 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059846.D

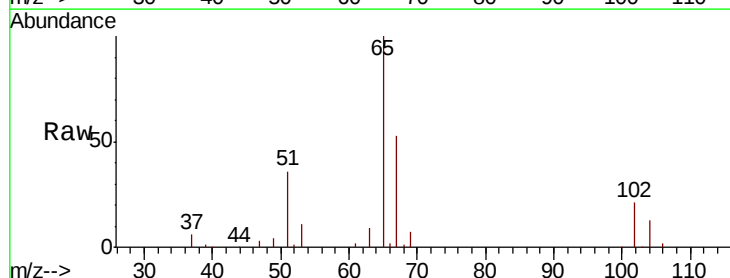
Acq: 24 Jan 2020 15:30

Tgt Ion: 65 Resp: 112920

Ion Ratio Lower Upper

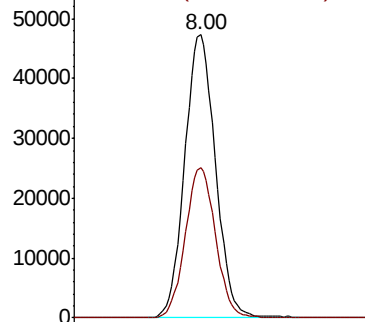
65 100

67 52.1 0.0 103.0

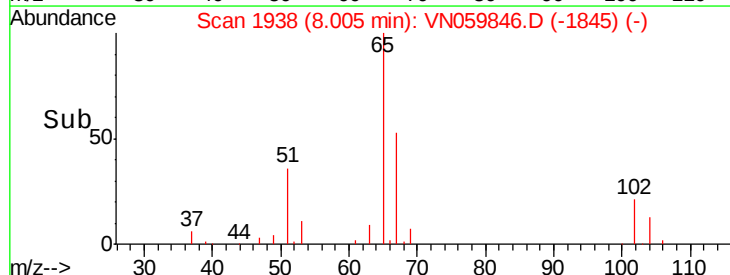


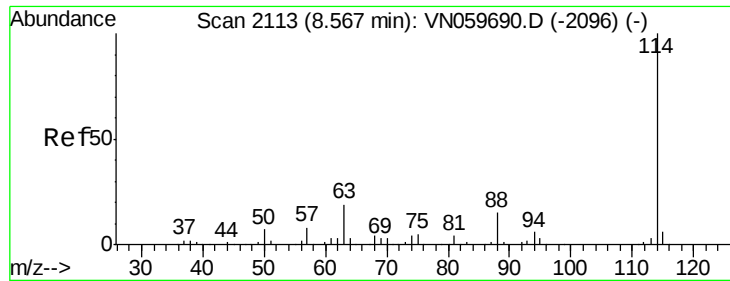
Abundance Ion 64.90 (64.60 to 65.60): VN059690.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN059690.D (-1920) (-)



Time-->

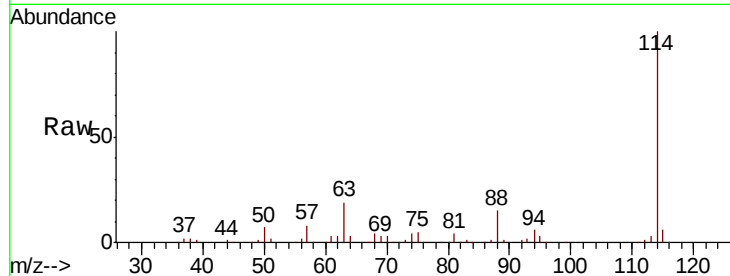




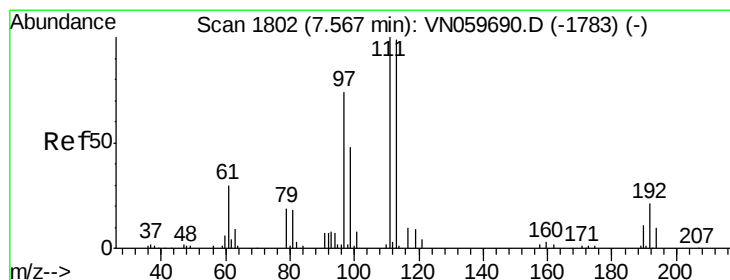
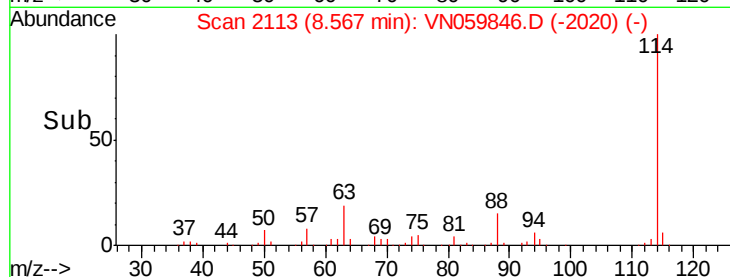
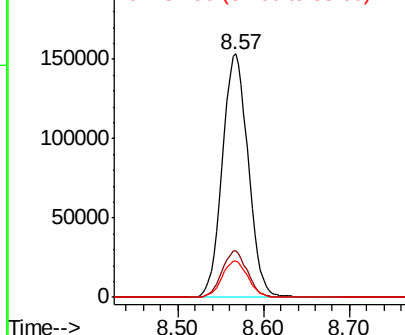
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN059846.D
Acq: 24 Jan 2020 15:30

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 320932
Ion Ratio Lower Upper
114 100
63 19.1 0.0 43.6
88 14.9 0.0 31.4

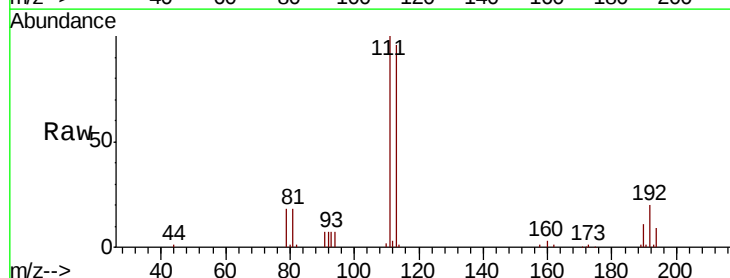


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

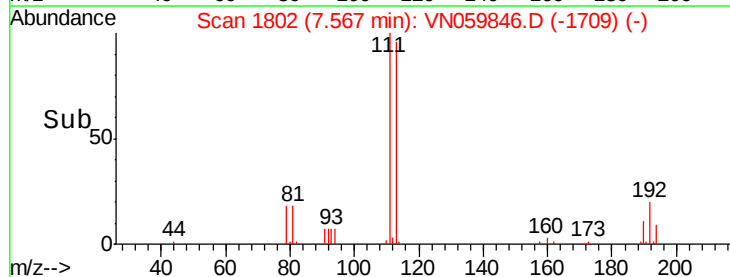
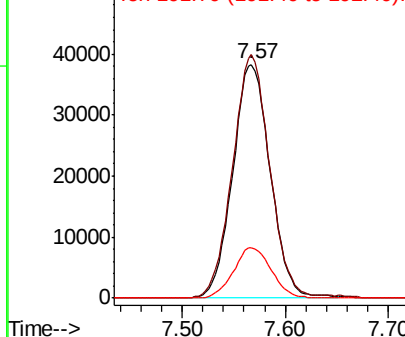


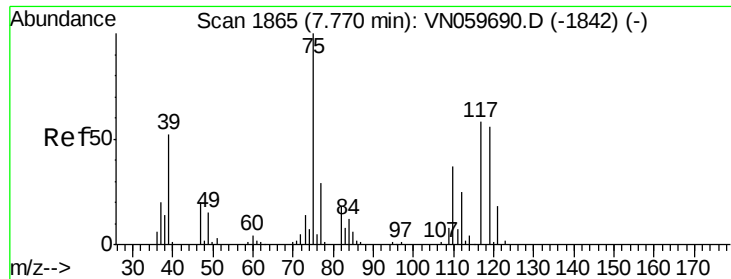
#35
Dibromofluoromethane
Concen: 50.716 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN059846.D
Acq: 24 Jan 2020 15:30

Tgt Ion:113 Resp: 97064
Ion Ratio Lower Upper
113 100
111 103.1 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

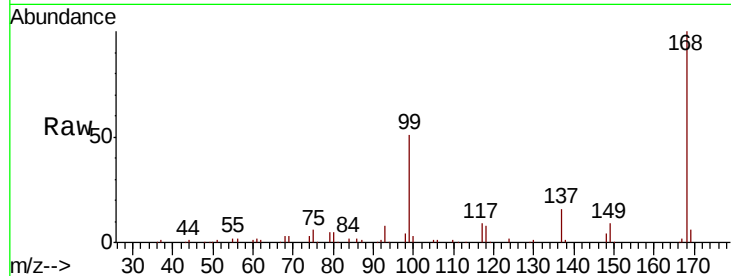




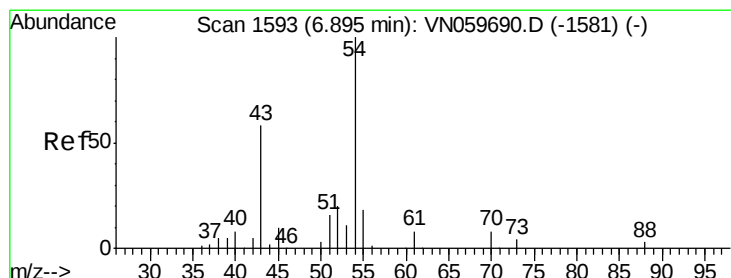
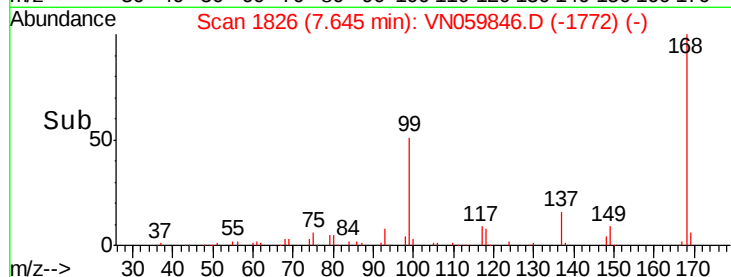
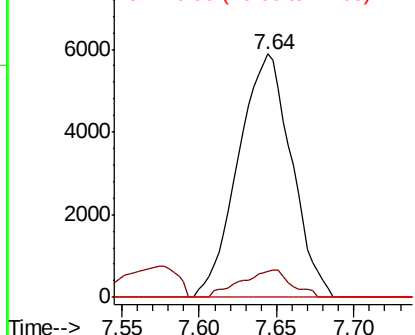
#36
 1,1-Dichloropropene
 Concen: 5.027 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059846.D
 Acq: 24 Jan 2020 15:30

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 14050
 Ion Ratio Lower Upper
 75 100
 110 10.5 16.6 49.7#
 77 0.0 25.1 37.7#

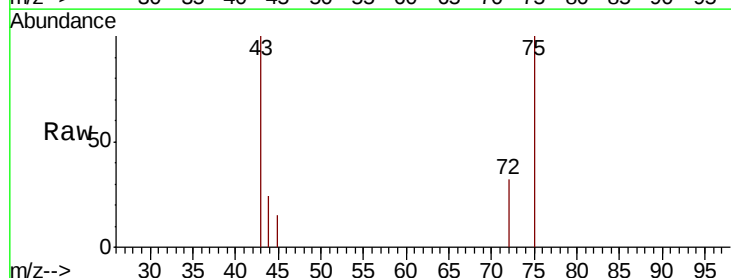


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN
 Ion 76.90 (76.60 to 77.60): VN

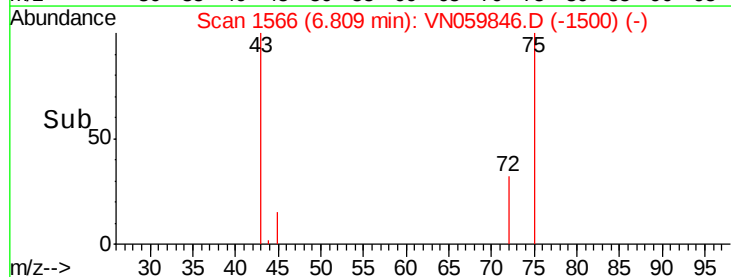
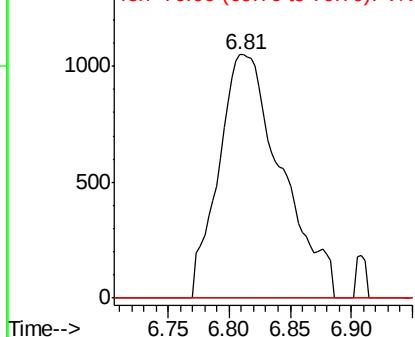


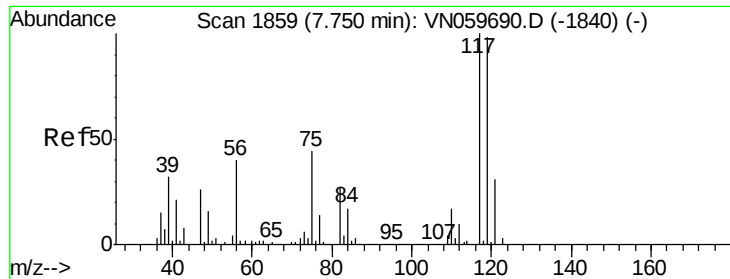
#37
 Ethyl Acetate
 Concen: 1.432 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. -0.09 min
 Lab File: VN059846.D
 Acq: 24 Jan 2020 15:30

Tgt Ion: 43 Resp: 3753
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.9 16.3#
 70 0.0 7.7 11.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 6.403 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN059846.D

Acq: 24 Jan 2020 15:30

Instrument :

MSVOA_N

ClientSampled :

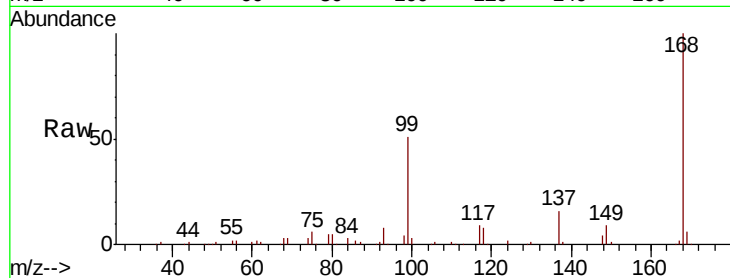
Tot Ion: 117 Resp: 19467

Ion Ratio Lower Upper

117 100

119 5.1 76.5 114.7#

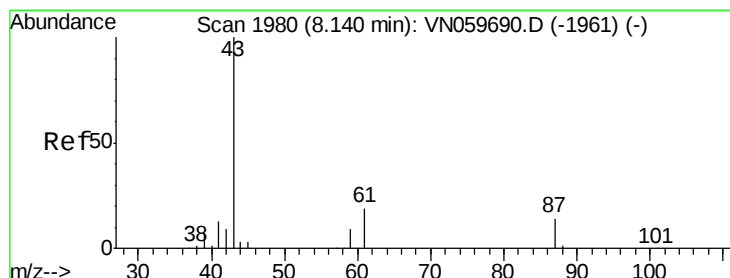
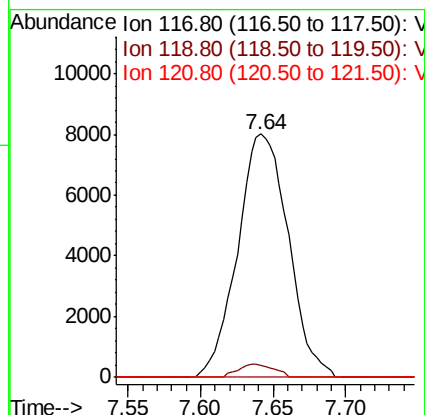
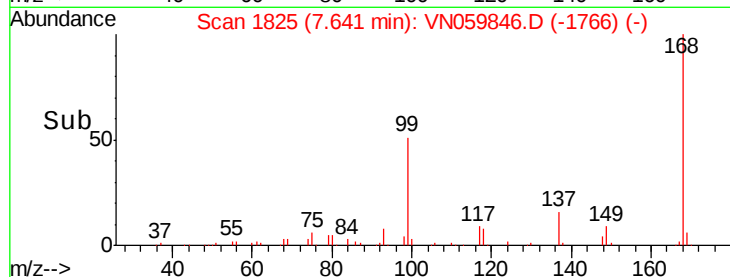
121 0.0 25.1 37.7#



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: 7.331 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059846.D

Acq: 24 Jan 2020 15:30

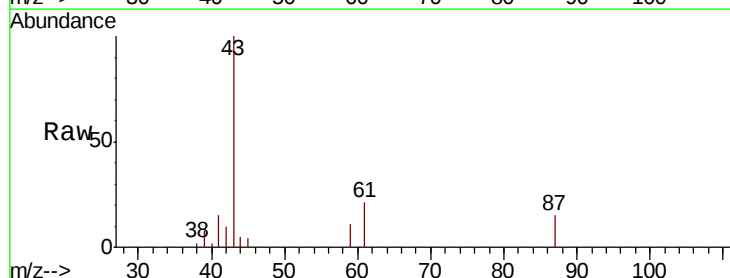
Tgt Ion: 43 Resp: 33055

Ion Ratio Lower Upper

43 100

61 20.6 20.2 30.2

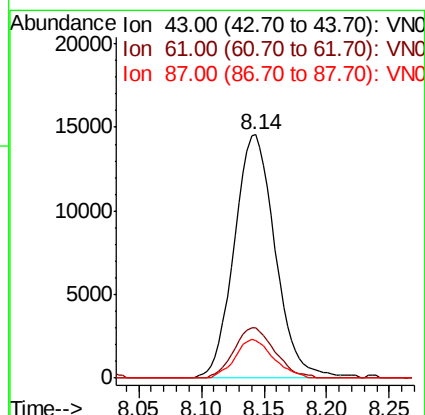
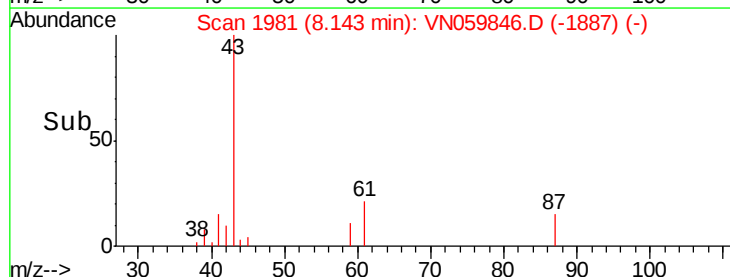
87 14.9 9.5 14.3#

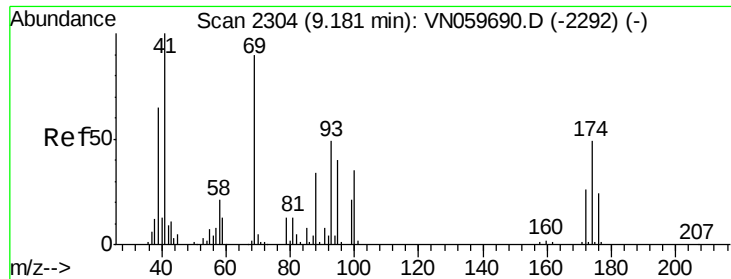


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

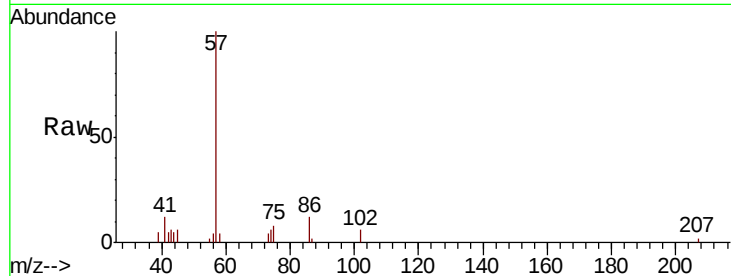




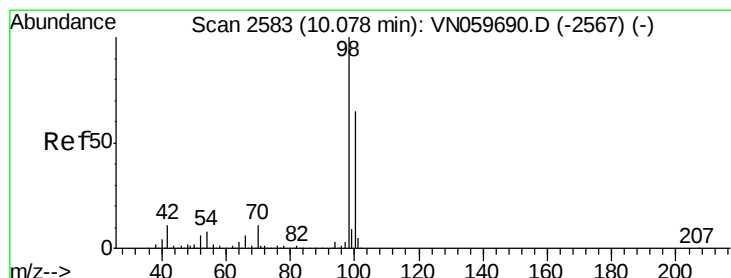
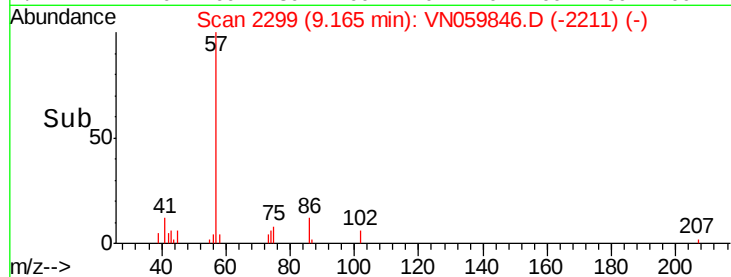
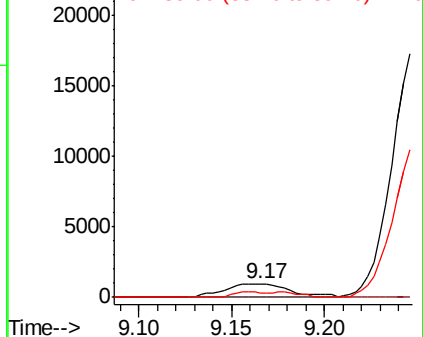
#48
Methvl methacrylate
Concen: 1.160 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN059846.D
Acq: 24 Jan 2020 15:30

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 2339
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

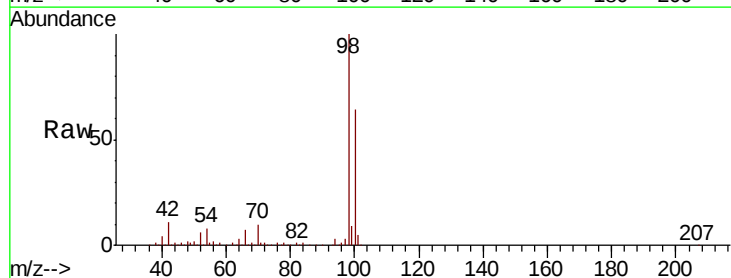


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

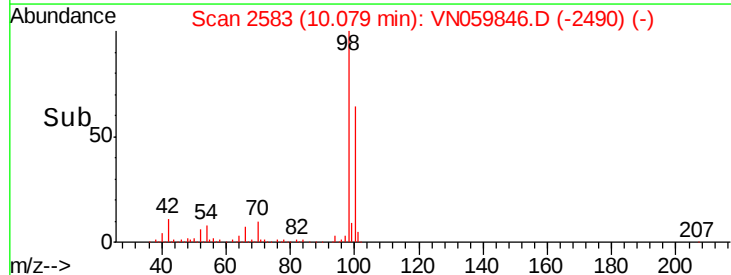
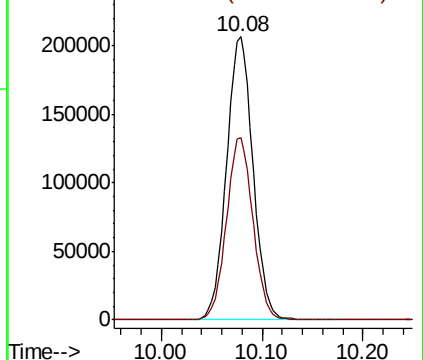


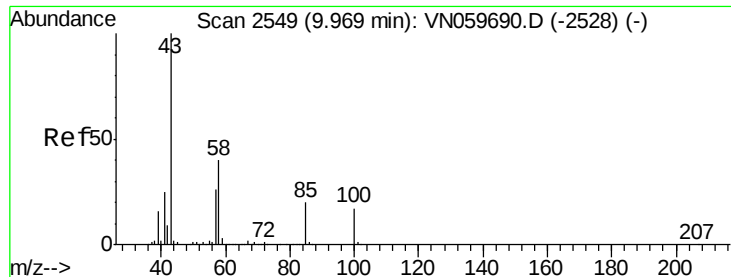
#50
Toluene-d8
Concen: 50.983 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059846.D
Acq: 24 Jan 2020 15:30

Tgt Ion: 98 Resp: 378049
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.890 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN059846.D

Acq: 24 Jan 2020 15:30

Instrument :

MSVOA_N

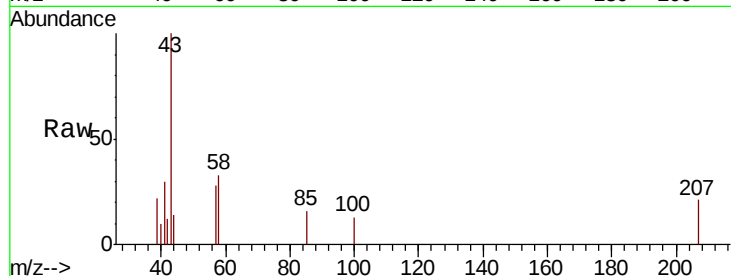
ClientSampleId :

Tot Ion: 43 Resp: 2320

Ion Ratio Lower Upper

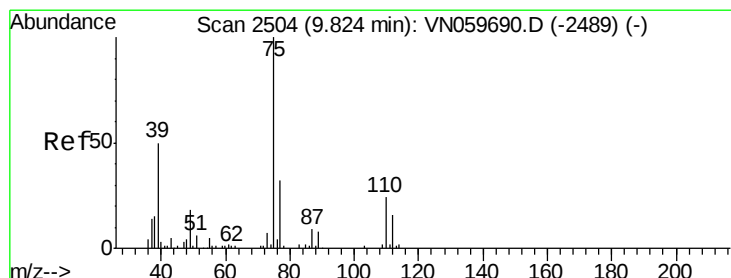
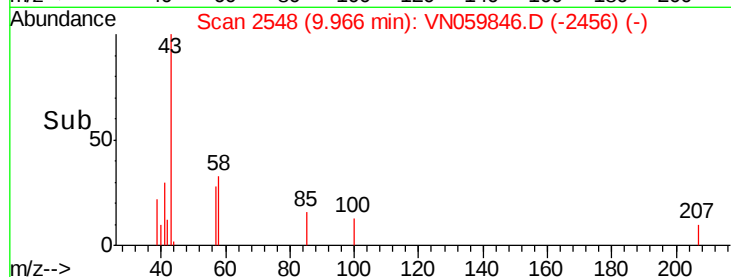
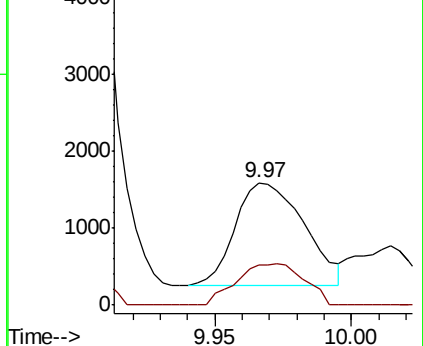
43 100

58 40.0 29.8 44.8



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

Ion 58.00 (57.70 to 58.70): VN059690.D (-2528) (-)



#54

cis-1,3-Dichloropropene

Concen: 4.773 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059846.D

Acq: 24 Jan 2020 15:30

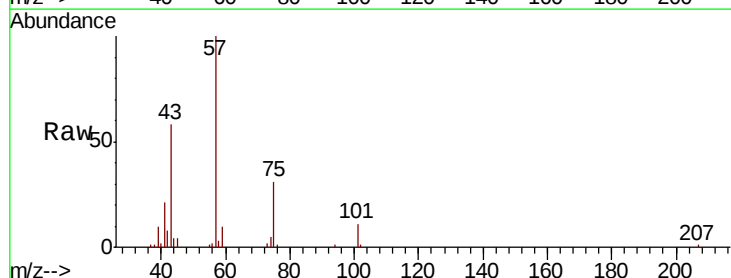
Tgt Ion: 75 Resp: 16441

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

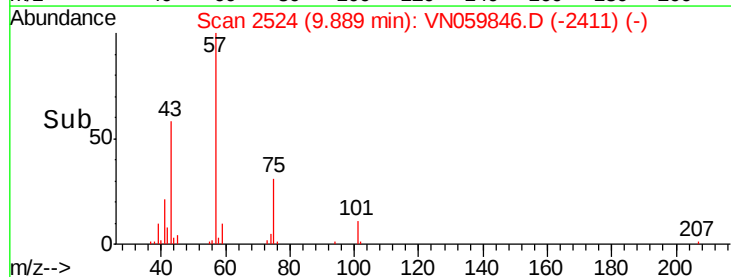
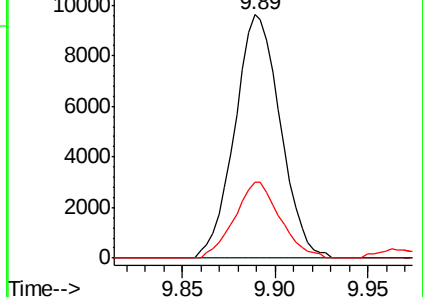
39 31.4 46.1 69.1#

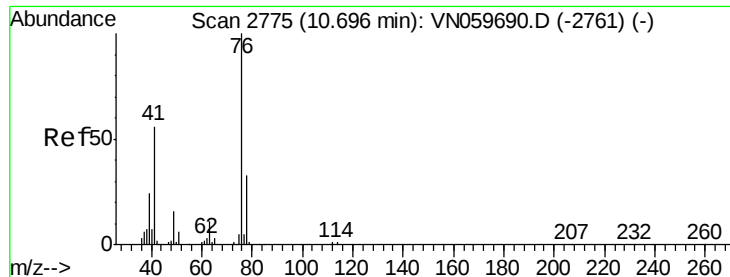


Abundance Ion 74.90 (74.60 to 75.60): VN059690.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN059690.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN059690.D (-2489) (-)

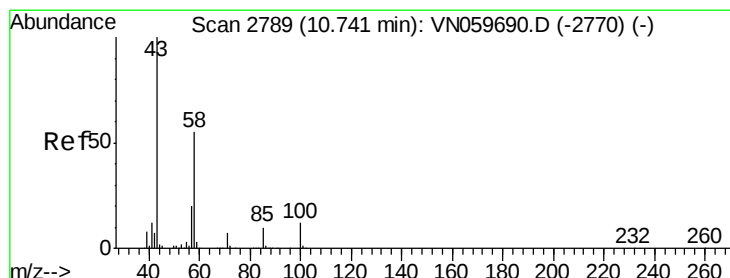
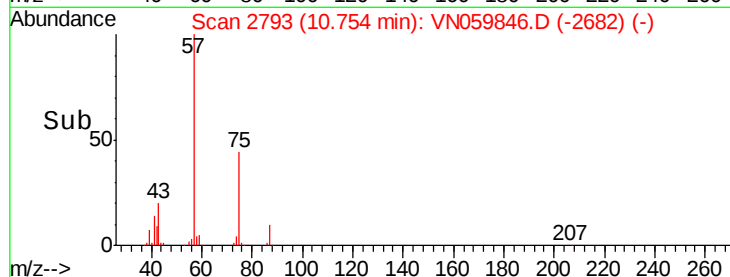
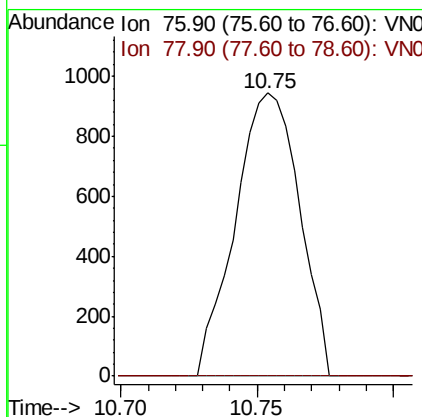
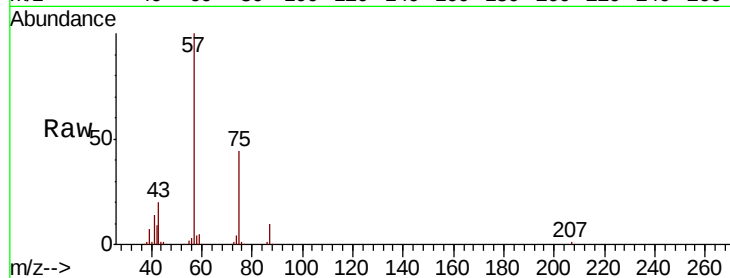




#57
 1,3-Dichloropropane
 Concen: 0.466 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059846.D
 Acq: 24 Jan 2020 15:30

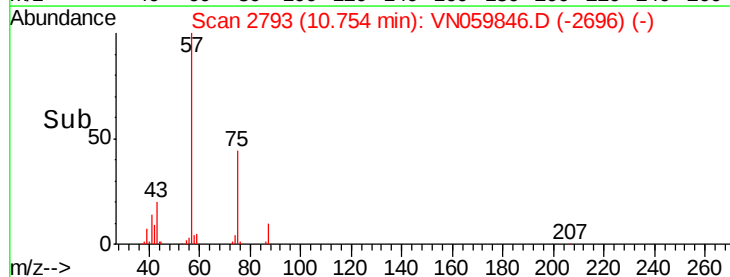
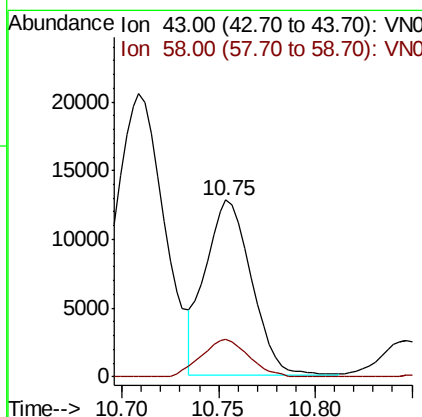
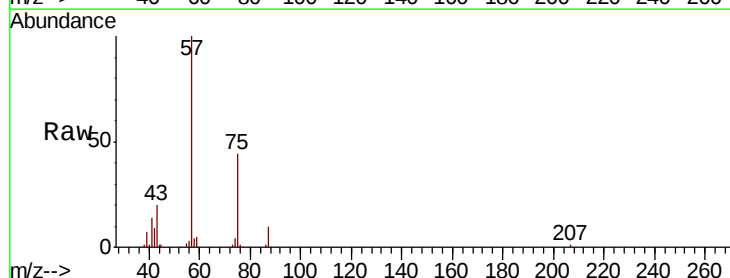
Instrument :
 MSVOA_N
 ClientSampled :

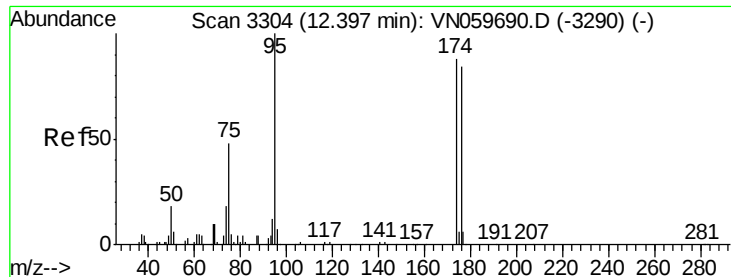
Tot Ion: 76 Resp: 1544
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 11.050 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059846.D
 Acq: 24 Jan 2020 15:30

Tgt Ion: 43 Resp: 21218
 Ion Ratio Lower Upper
 43 100
 58 22.1 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 46.145 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059846.D

Acq: 24 Jan 2020 15:30

Instrument :

MSVOA_N

ClientSampled :

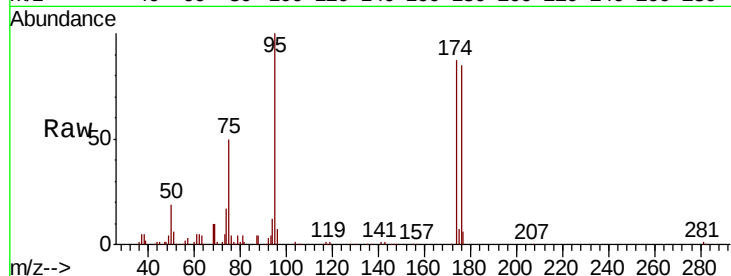
Tot Ion: 95 Resp: 123355

Ion Ratio Lower Upper

95 100

174 88.2 0.0 151.4

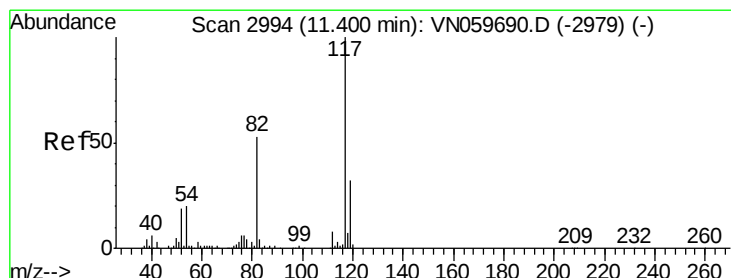
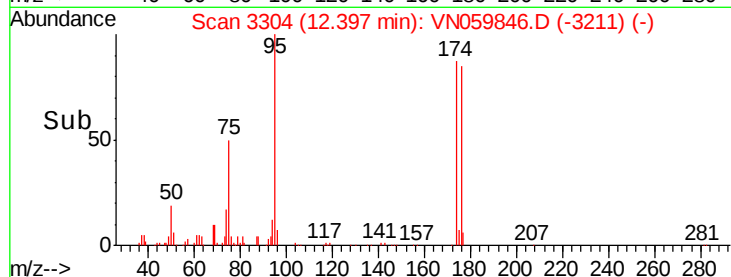
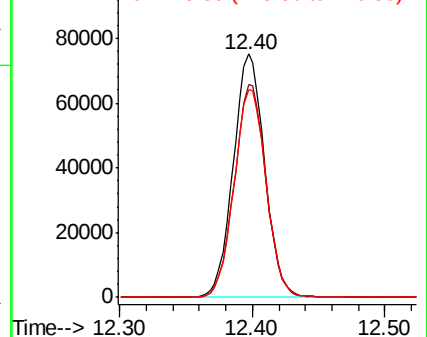
176 87.4 0.0 146.0



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: VN059846.D

Acq: 24 Jan 2020 15:30

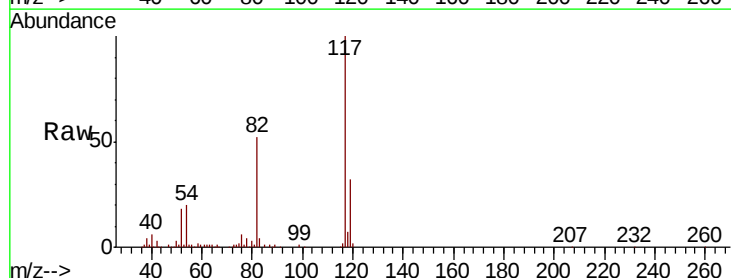
Tgt Ion: 117 Resp: 282602

Ion Ratio Lower Upper

117 100

82 52.3 45.9 68.9

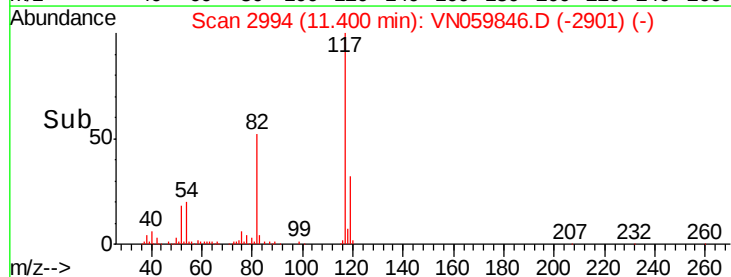
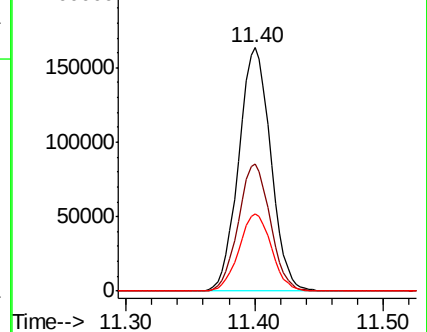
119 31.7 25.5 38.3

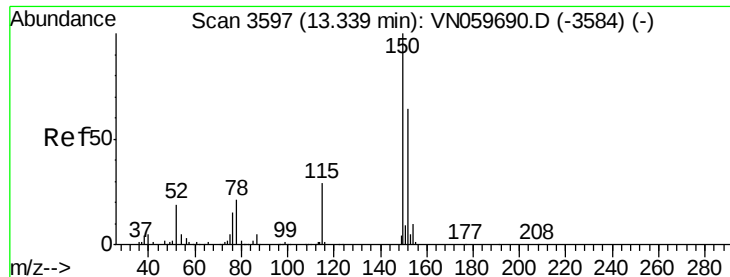


Abundance Ion 116.90 (116.60 to 117.60): VN059690.D (-2979) (-)

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

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



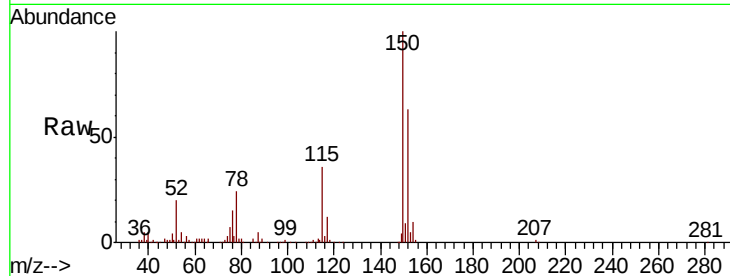


#72

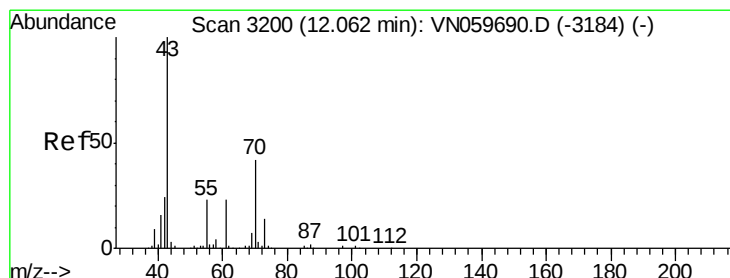
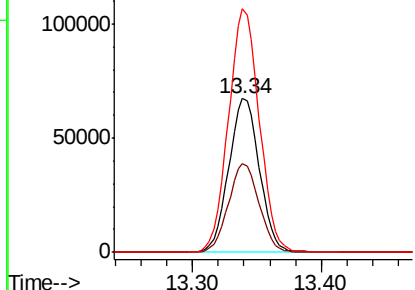
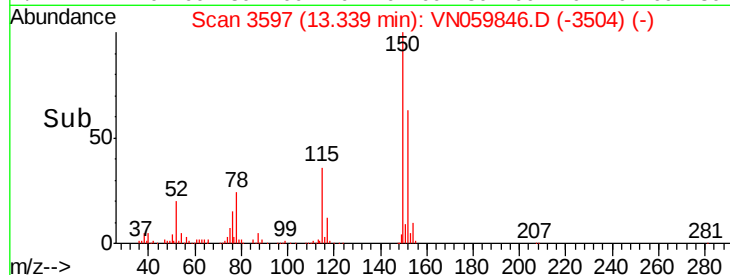
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN059846.D
Acq: 24 Jan 2020 15:30

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 111029
Ion Ratio Lower Upper
152 100
115 57.5 30.3 90.9
150 159.7 0.0 345.2



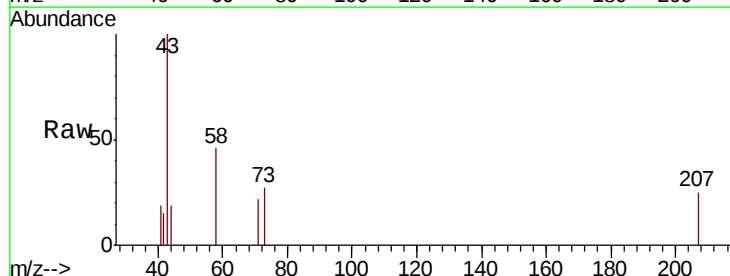
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



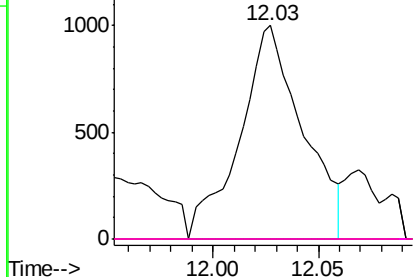
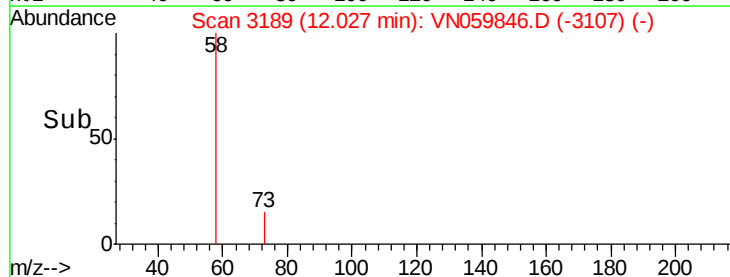
#74

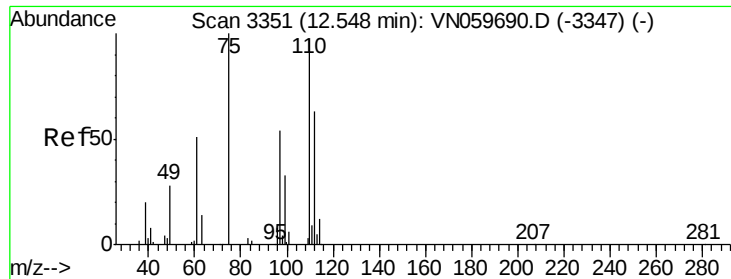
N-ethyl acetate
Concen: 0.658 ug/l
RT: 12.03 min Scan# 3189
Delta R.T. -0.04 min
Lab File: VN059846.D
Acq: 24 Jan 2020 15:30

Tgt Ion: 43 Resp: 2079
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

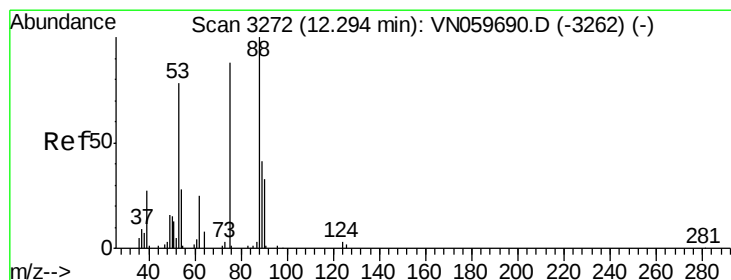
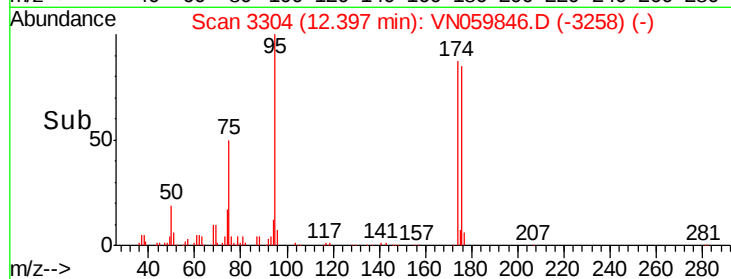
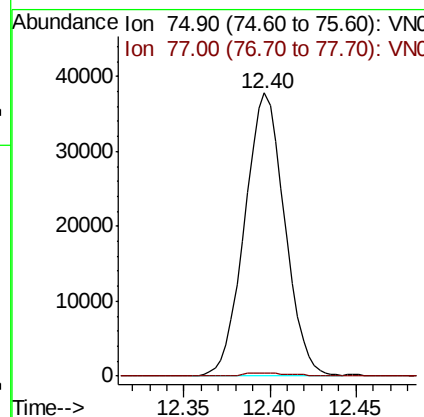
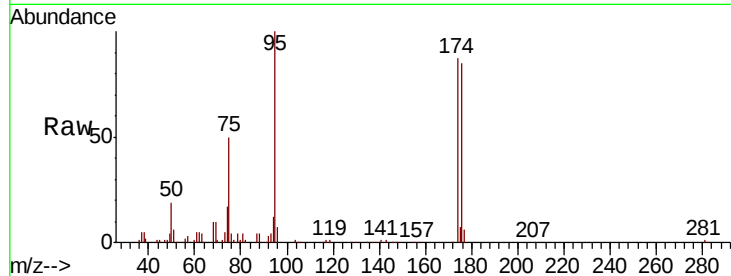




#76
 1,2,3-Trichloropropane
 Concen: 32.695 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.15 min
 Lab File: VN059846.D
 Acq: 24 Jan 2020 15:30

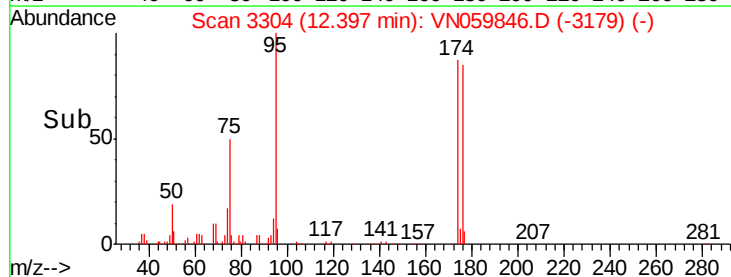
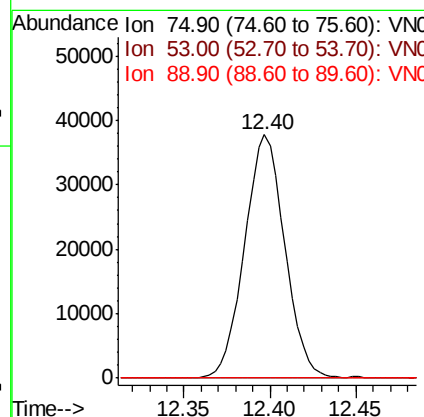
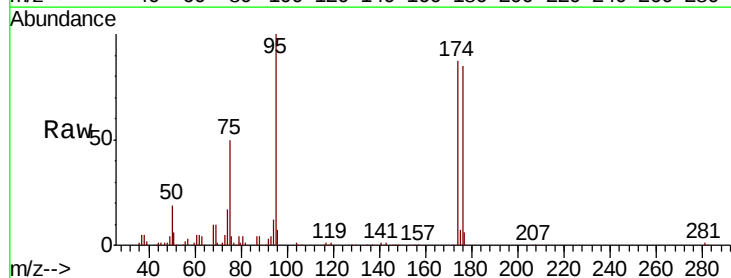
Instrument :
 MSVOA_N
 ClientSampleId :

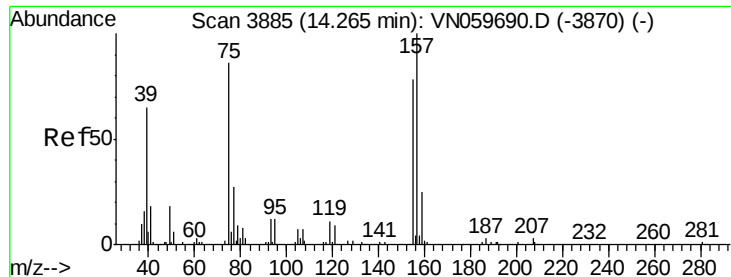
Tot Ion: 75 Resp: 61091
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.213 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN059846.D
 Acq: 24 Jan 2020 15:30

Tgt Ion: 75 Resp: 61091
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.1 117.1#
 89 0.0 35.4 53.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.29 min Scan# 3894

Delta R.T. 0.03 min

Lab File: VN059846.D

Acq: 24 Jan 2020 15:30

Instrument :

MSVOA_N

ClientSampleId :

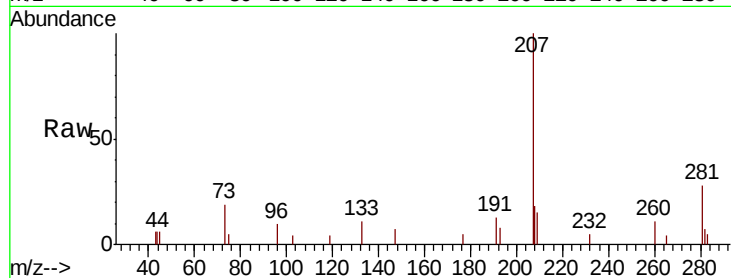
Tot Ion: 75 Resp: 134

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): VN059846.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN059846.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN059846.D (-3791) (-)

