

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100720\
 Data File : VN063970.D
 Acq On : 8 Oct 2020 3:41
 Operator : JC/MD
 Sample : L4224-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OR-02-100620

Quant Time: Oct 08 05:11:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	245753	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	458054	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	469352	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	192409	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	207874	51.20	ug/l	0.00
Spiked Amount			Recovery	=	102.40%	
35) Dibromofluoromethane	7.55	113	150092	47.22	ug/l	0.00
Spiked Amount			Recovery	=	94.44%	
50) Toluene-d8	10.06	98	586332	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
62) 4-Bromofluorobenzene	12.38	95	223126	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	

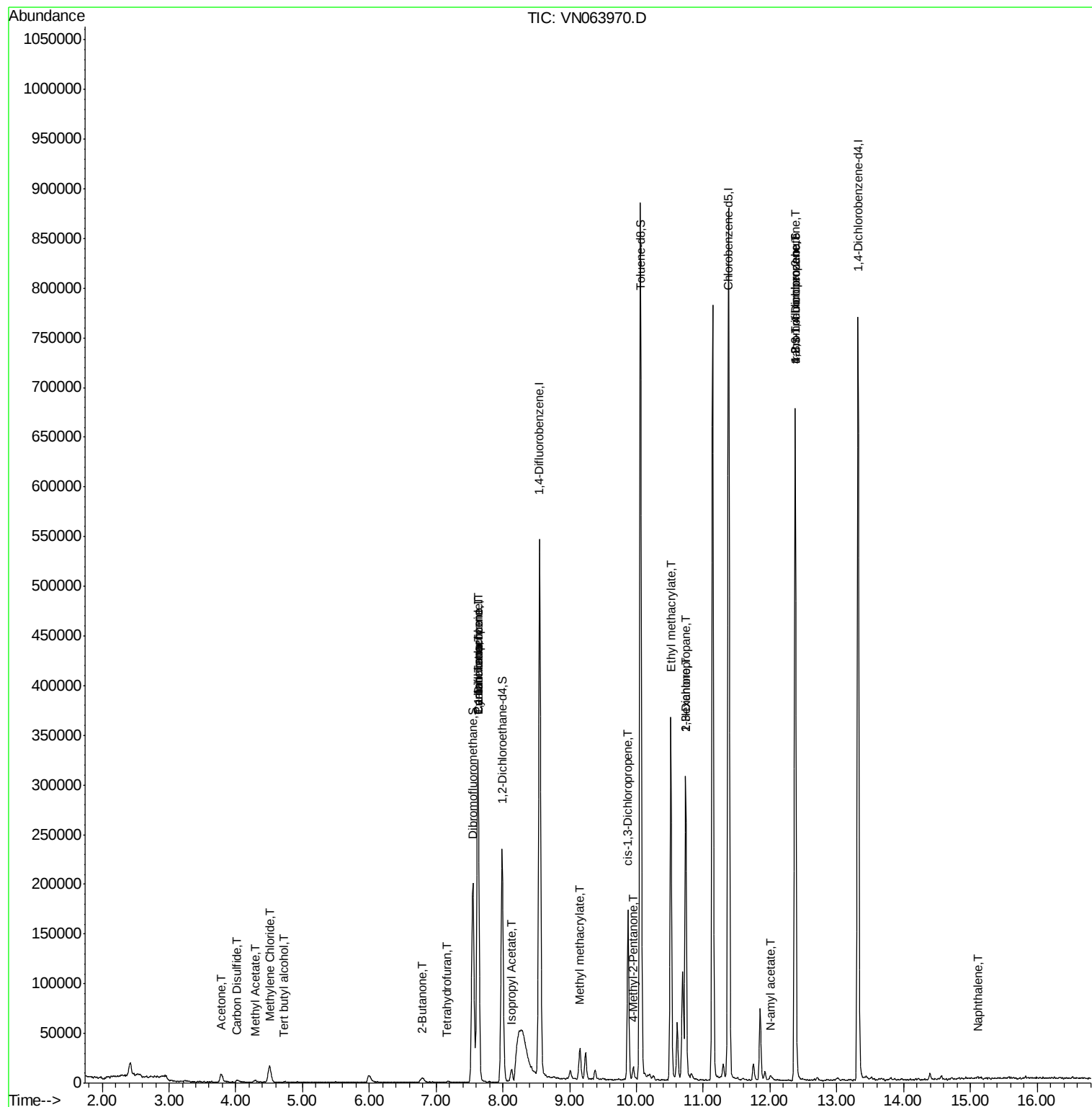
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	170	0.379	ug/l #	71
16) Acetone	3.78	43	15685	12.550	ug/l	96
17) Carbon Disulfide	4.01	76	834	0.824	ug/l #	76
18) Methyl Acetate	4.29	43	3948	1.217	ug/l #	69
20) Methylene Chloride	4.51	84	11529	4.117	ug/l	96
25) 2-Butanone	6.79	43	3665	2.068	ug/l #	86
29) Tetrahydrofuran	7.17	42	359	0.302	ug/l #	42
31) Cyclohexane	7.63	56	6282	1.333	ug/l #	7
36) 1,1-Dichloropropene	7.62	75	21365	4.604	ug/l #	46
38) Carbon Tetrachloride	7.63	117	26678	5.127	ug/l #	15
43) Isopropyl Acetate	8.13	43	16949	2.229	ug/l	98
48) Methyl methacrylate	9.14	41	6111	1.626	ug/l #	19
51) 4-Methyl-2-Pentanone	9.95	43	8018	1.797	ug/l	90
54) cis-1,3-Dichloropropene	9.87	75	26888	4.713	ug/l #	66
56) Ethyl methacrylate	10.52	69	2498	0.536	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2824	0.508	ug/l #	43
59) 2-Hexanone	10.74	43	50298	15.172	ug/l #	56
74) N-amyl acetate	12.01	43	3059	2.664	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	122345	28.845	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	122345	83.078	ug/l #	6
95) Naphthalene	15.11	128	2302	2.138	ug/l #	81

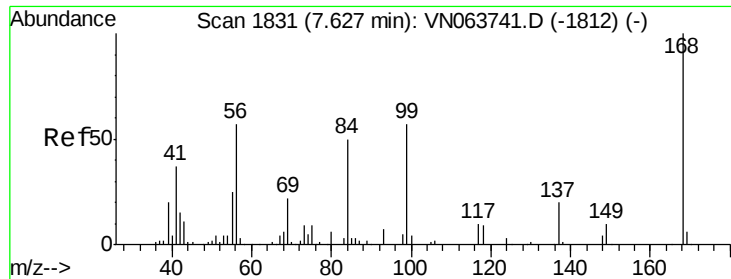
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Oct 01 01:46:38 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063970.D

Acq: 8 Oct 2020 3:41

Instrument :

MSVOA_N

ClientSampleId :

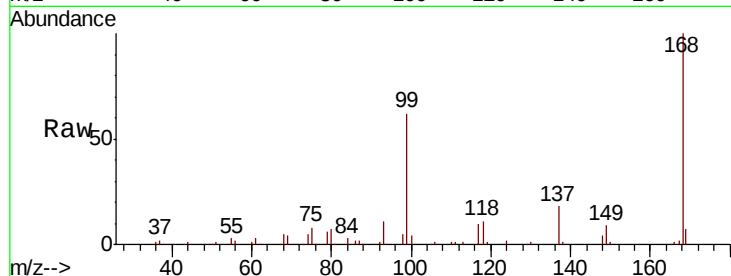
OR-02-100620

Tot Ion:168 Resp: 245753

Ion Ratio Lower Upper

168 100

99 61.8 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

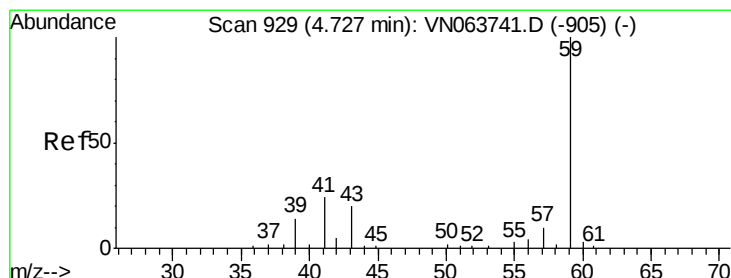
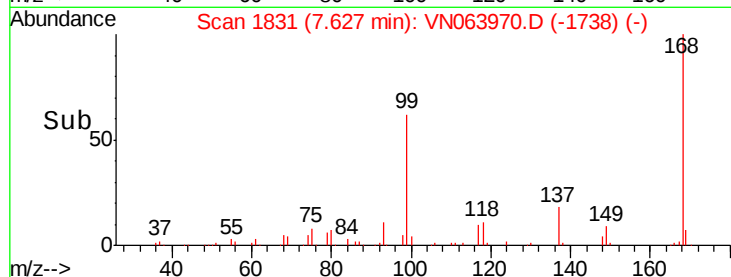
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.379 ug/l

RT: 4.72 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN063970.D

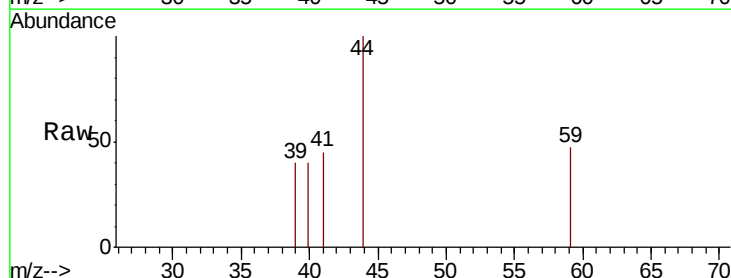
Acq: 8 Oct 2020 3:41

Tgt Ion: 59 Resp: 170

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

400

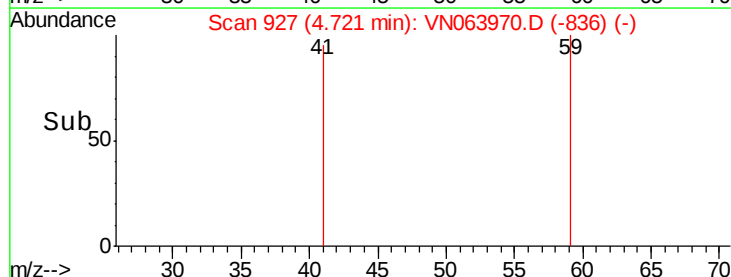
300

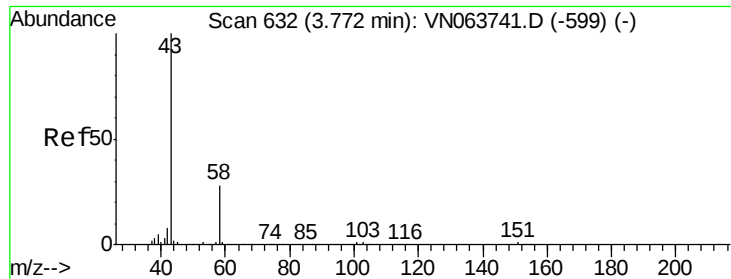
200

100

0

Time--> 4.71 4.72 4.73





#16

Acetone

Concen: 12.550 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063970.D

Acq: 8 Oct 2020 3:41

Instrument :

MSVOA_N

ClientSampleId :

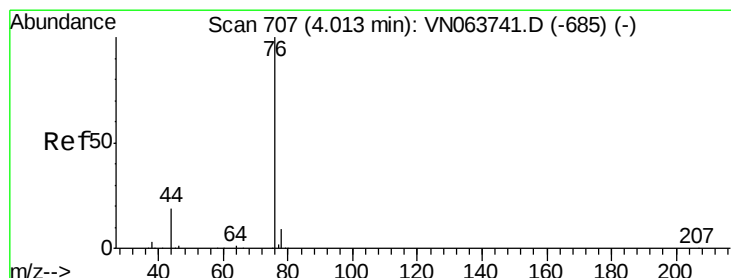
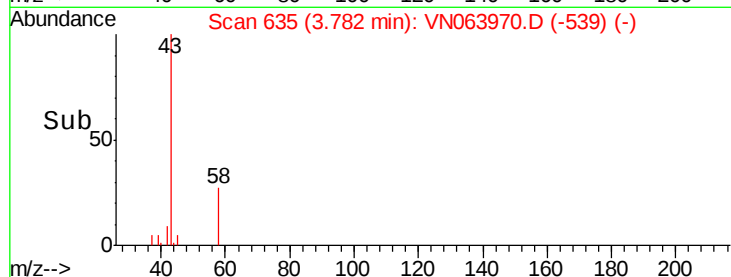
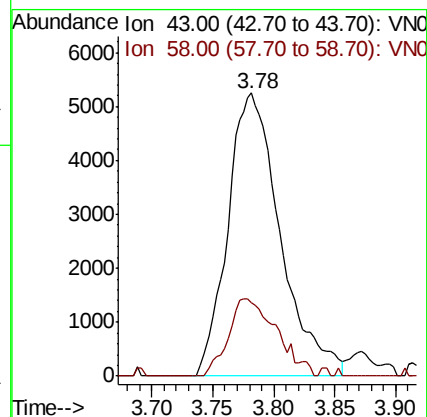
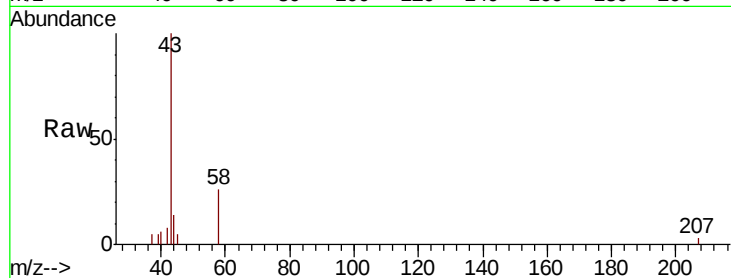
OR-02-100620

Tot Ion: 43 Resp: 15685

Ion Ratio Lower Upper

43 100

58 26.0 22.3 33.5



#17

Carbon Disulfide

Concen: 0.824 ug/l

RT: 4.01 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN063970.D

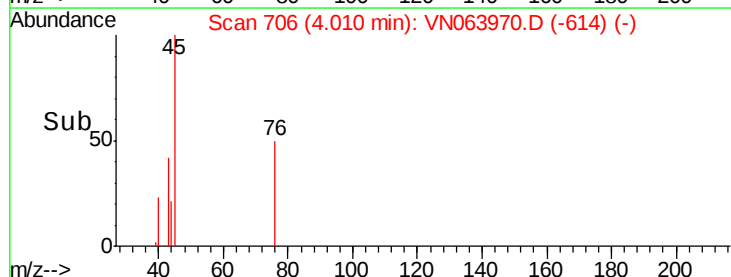
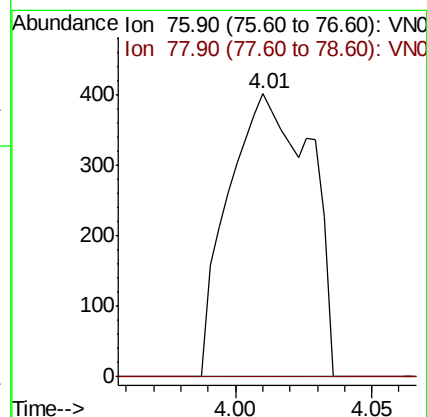
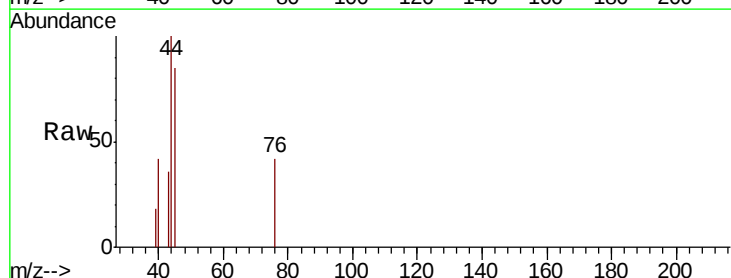
Acq: 8 Oct 2020 3:41

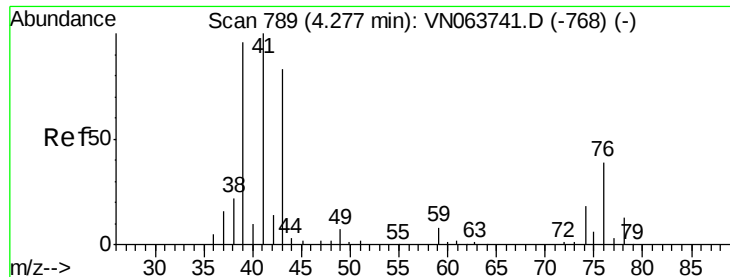
Tgt Ion: 76 Resp: 834

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#

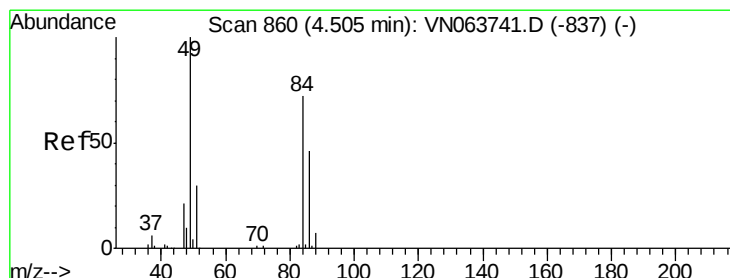
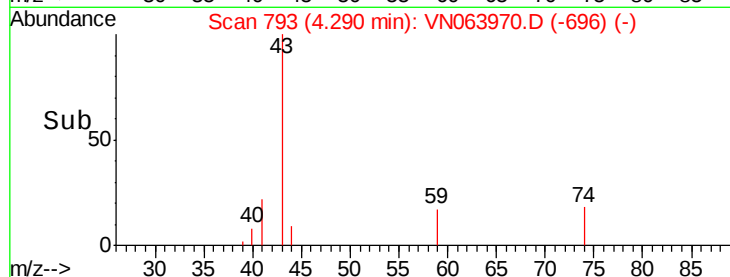
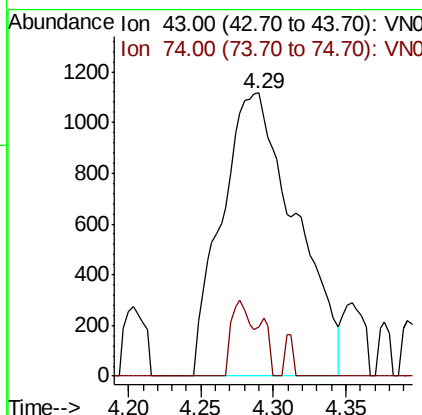
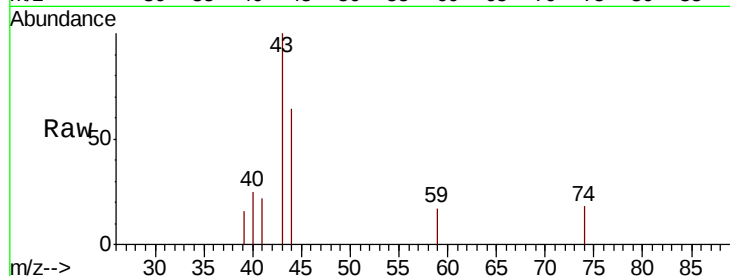




#18
Methyl Acetate
Concen: 1.217 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN063970.D
Acq: 8 Oct 2020 3:41

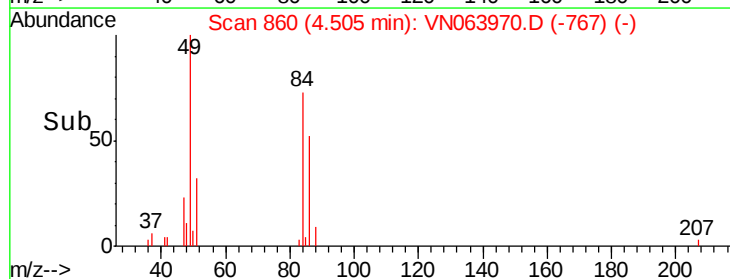
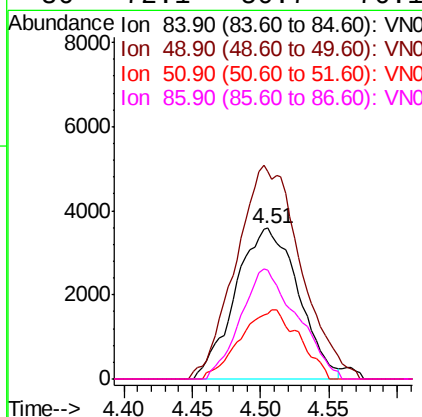
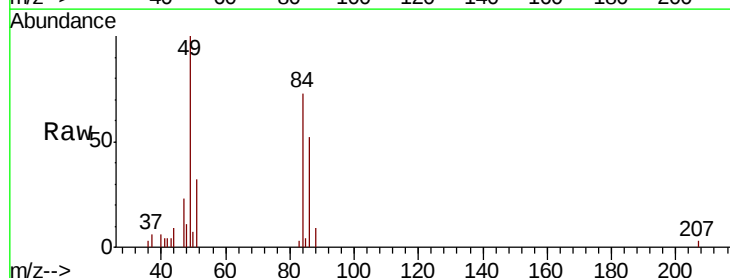
Instrument :
MSVOA_N
ClientSampled :
OR-02-100620

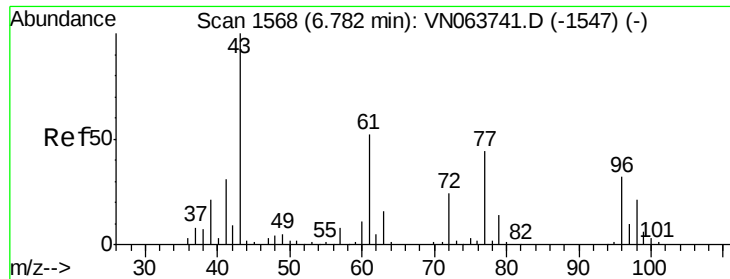
Tot Ion: 43 Resp: 3948
Ion Ratio Lower Upper
43 100
74 7.0 17.4 26.2#



#20
Methylene Chloride
Concen: 4.117 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063970.D
Acq: 8 Oct 2020 3:41

Tgt Ion: 84 Resp: 11529
Ion Ratio Lower Upper
84 100
49 137.5 110.4 165.6
51 43.8 33.3 49.9
86 72.1 50.7 76.1

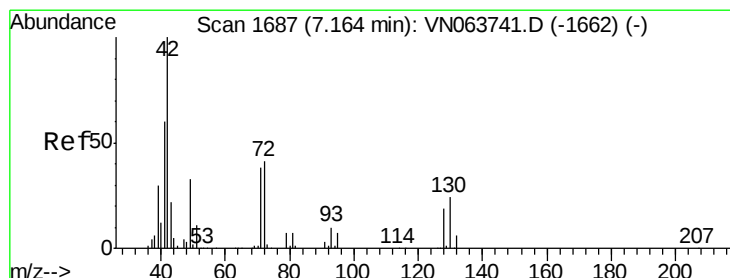
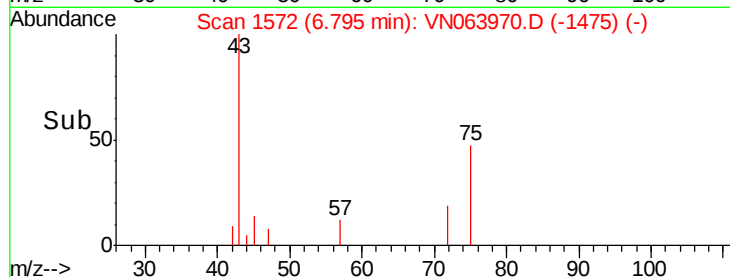
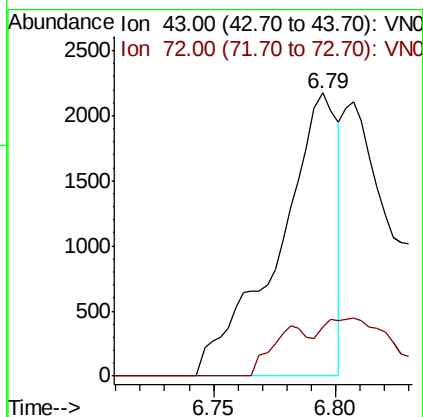
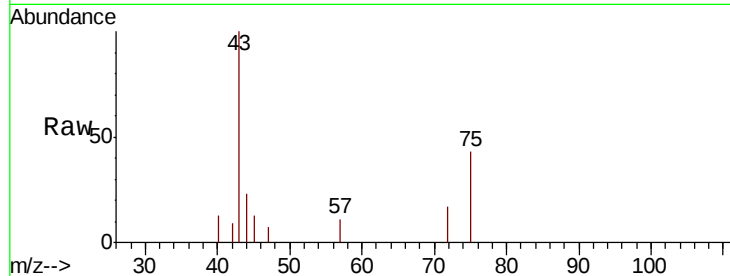




#25
2-Butanone
Concen: 2.068 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN063970.D
Acq: 8 Oct 2020 3:41

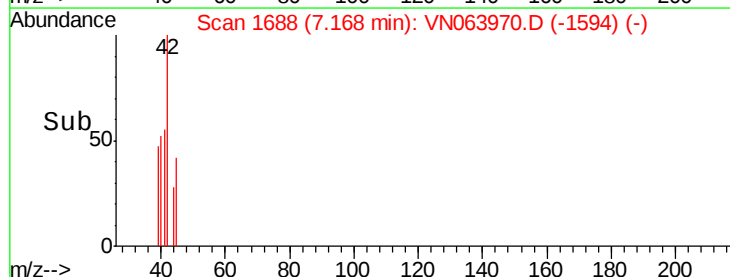
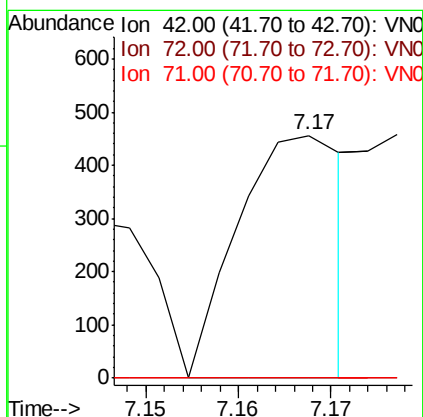
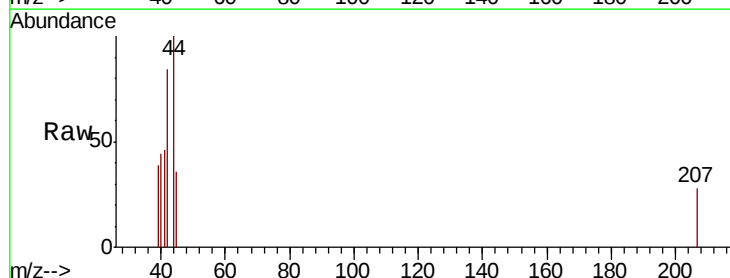
Instrument :
MSVOA_N
ClientSampleId :
OR-02-100620

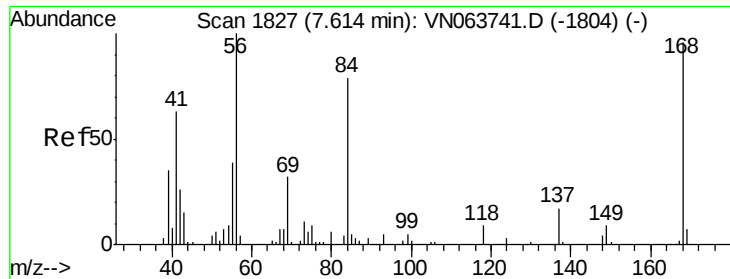
Tot Ion: 43 Resp: 3665
Ion Ratio Lower Upper
43 100
72 17.2 19.3 28.9#



#29
Tetrahydrofuran
Concen: 0.302 ug/l
RT: 7.17 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VN063970.D
Acq: 8 Oct 2020 3:41

Tgt Ion: 42 Resp: 359
Ion Ratio Lower Upper
42 100
72 0.0 32.8 49.2#
71 8.1 30.6 45.8#

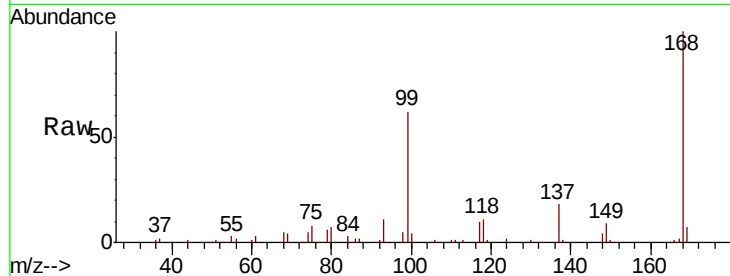




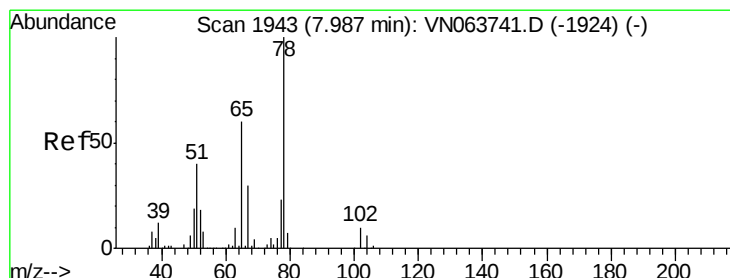
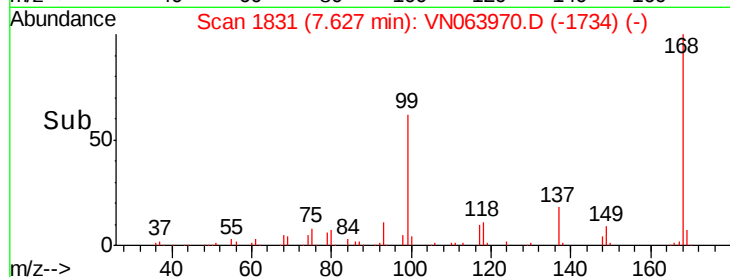
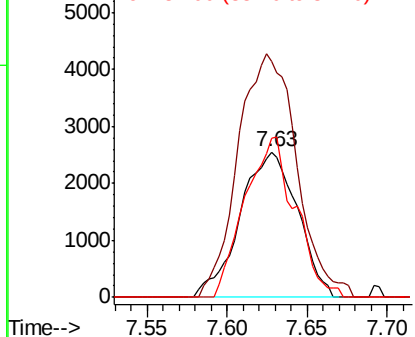
#31
Cyclohexane
Concen: 1.333 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063970.D
Acq: 8 Oct 2020 3:41

Instrument :
MSVOA_N
ClientSampleId :
OR-02-100620

Tot Ion: 56 Resp: 6282
Ion Ratio Lower Upper
56 100
69 162.8 25.4 38.2#
84 109.9 63.3 94.9#

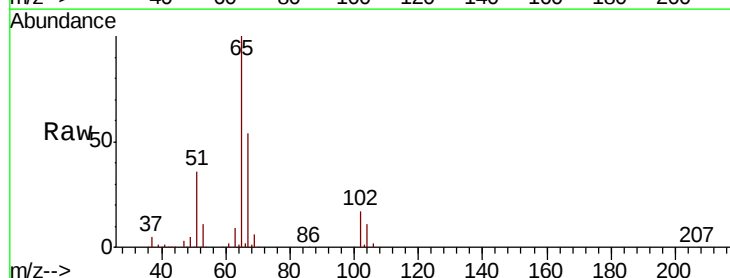


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

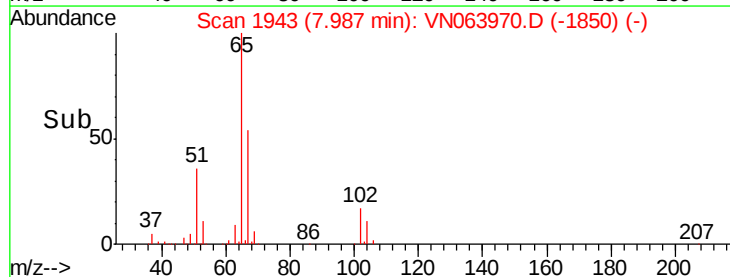
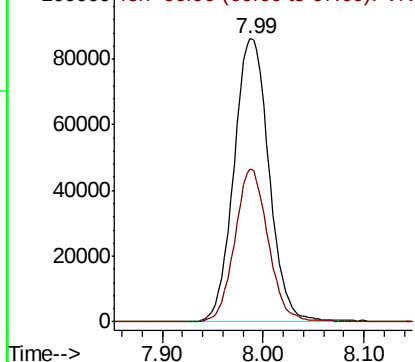


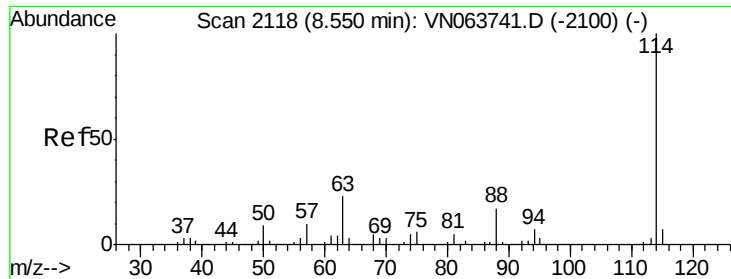
#33
1,2-Dichloroethane-d4
Concen: 51.200 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN063970.D
Acq: 8 Oct 2020 3:41

Tgt Ion: 65 Resp: 207874
Ion Ratio Lower Upper
65 100
67 51.2 0.0 99.6



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

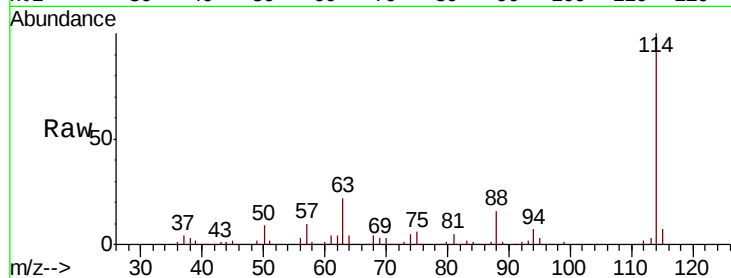




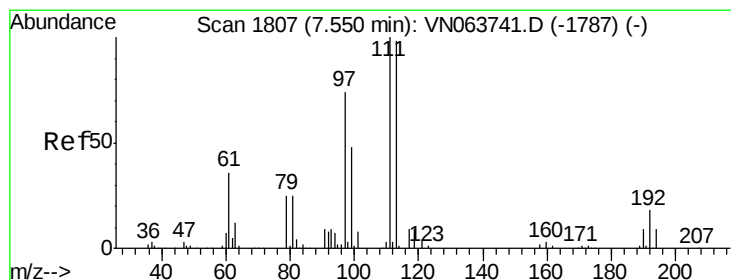
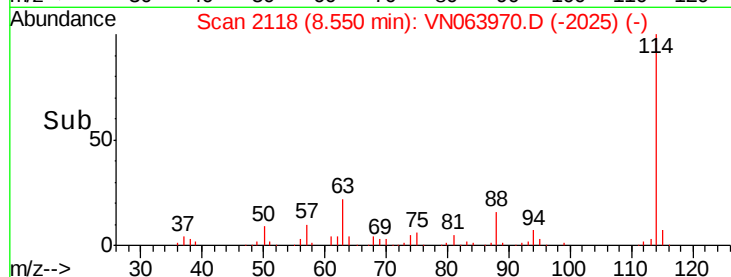
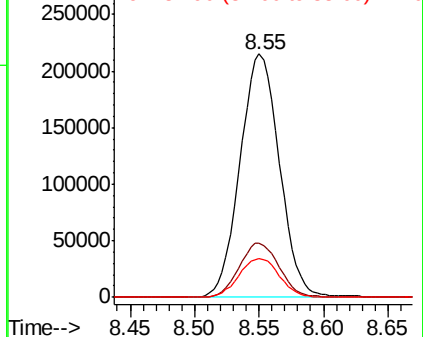
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN063970.D
Acq: 8 Oct 2020 3:41

Instrument :
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ClientSampleId :
OR-02-100620

Tot Ion:114 Resp: 458054
Ion Ratio Lower Upper
114 100
63 22.0 0.0 45.0
88 15.7 0.0 34.0

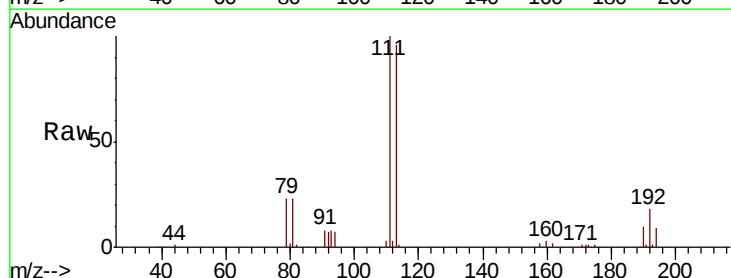


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

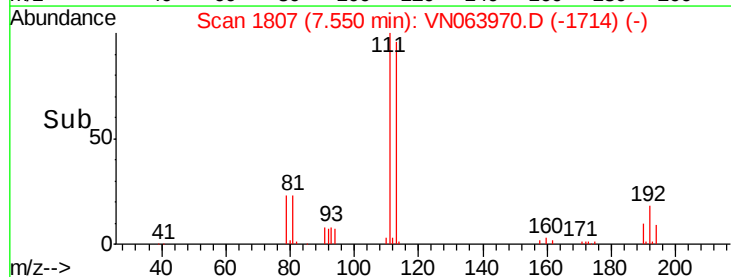
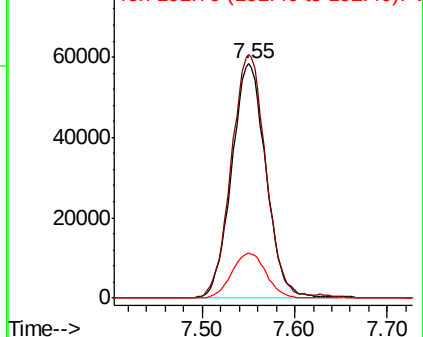


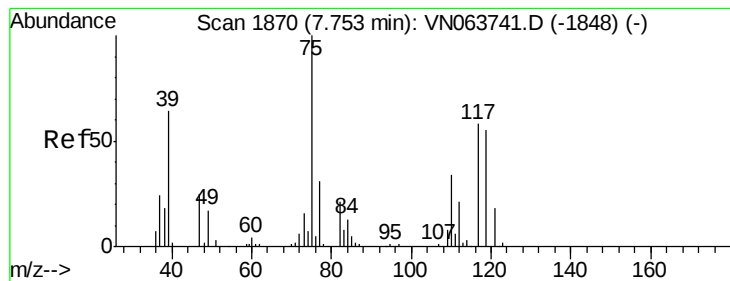
#35
Dibromofluoromethane
Concen: 47.224 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063970.D
Acq: 8 Oct 2020 3:41

Tgt Ion:113 Resp: 150092
Ion Ratio Lower Upper
113 100
111 104.1 81.8 122.8
192 19.1 14.2 21.2



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: 4.604 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063970.D

Acq: 8 Oct 2020 3:41

Instrument :

MSVOA_N

ClientSampleId :

OR-02-100620

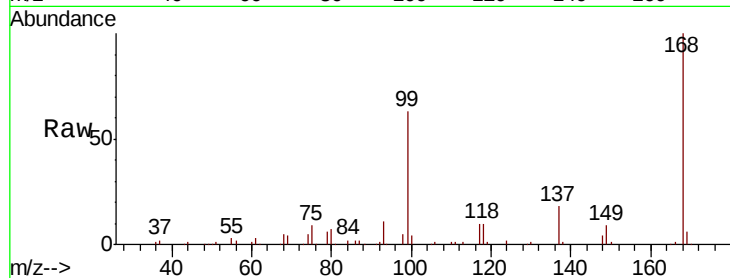
Tot Ion: 75 Resp: 21365

Ion Ratio Lower Upper

75 100

110 4.0 16.9 50.6#

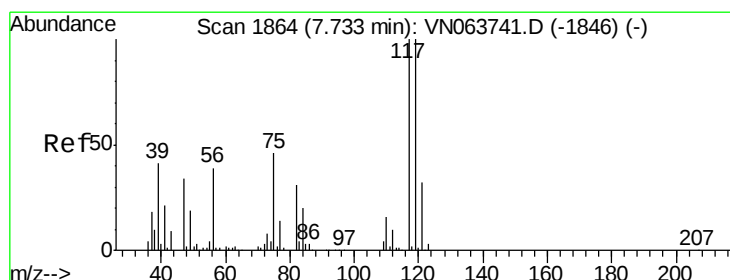
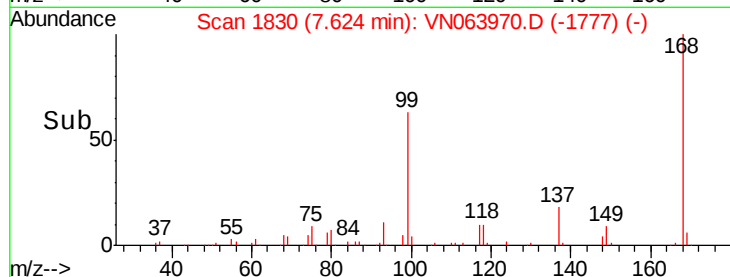
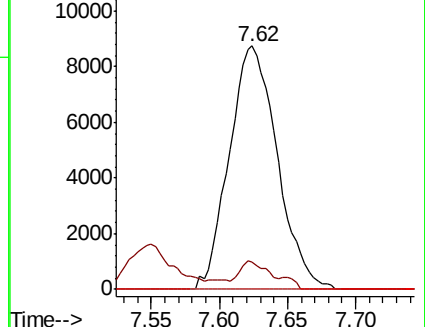
77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VN063970.D (-1777) (-)

Ion 109.90 (109.60 to 110.60): VN063970.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN063970.D (-1777) (-)



#38

Carbon Tetrachloride

Concen: 5.127 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063970.D

Acq: 8 Oct 2020 3:41

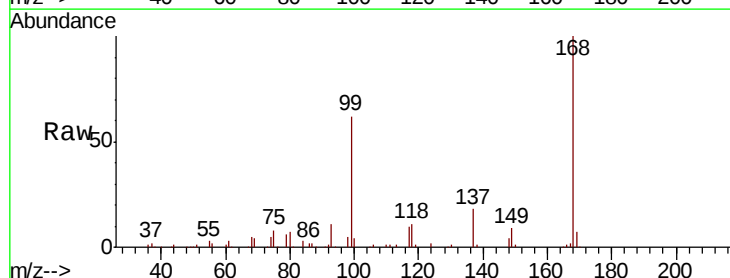
Tgt Ion: 117 Resp: 26678

Ion Ratio Lower Upper

117 100

119 6.1 80.1 120.1#

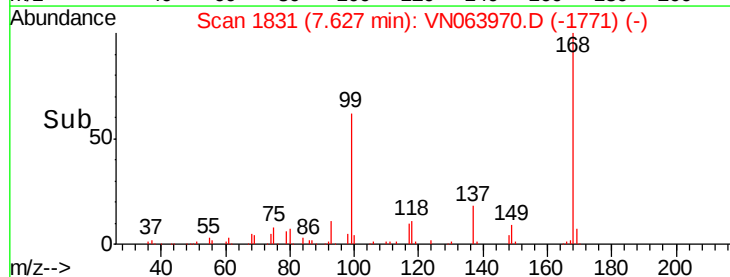
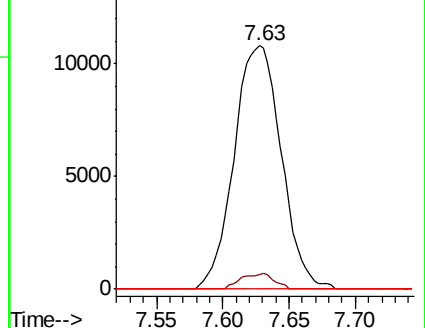
121 0.0 25.7 38.5#

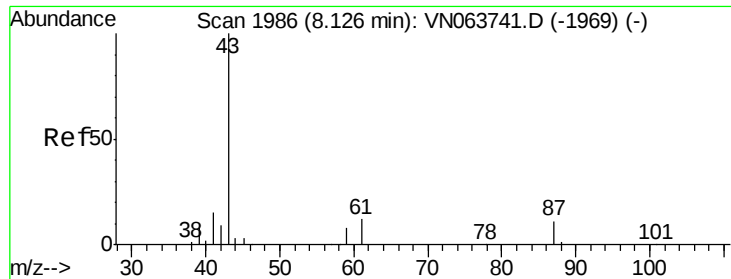


Abundance Ion 116.80 (116.50 to 117.50): VN063970.D (-1771) (-)

Ion 118.80 (118.50 to 119.50): VN063970.D (-1771) (-)

Ion 120.80 (120.50 to 121.50): VN063970.D (-1771) (-)





#43

Isopropyl Acetate

Concen: 2.229 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063970.D

Acq: 8 Oct 2020 3:41

Instrument :

MSVOA_N

ClientSampleId :

OR-02-100620

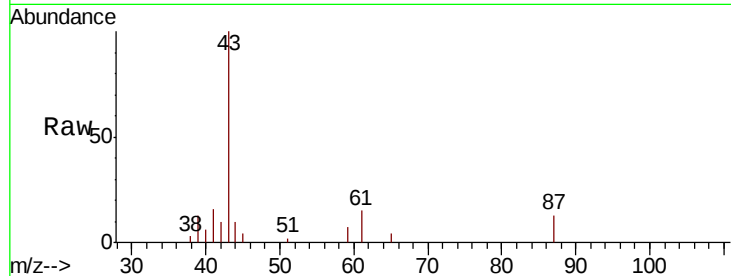
Tot Ion: 43 Resp: 16949

Ion Ratio Lower Upper

43 100

61 16.7 14.2 21.4

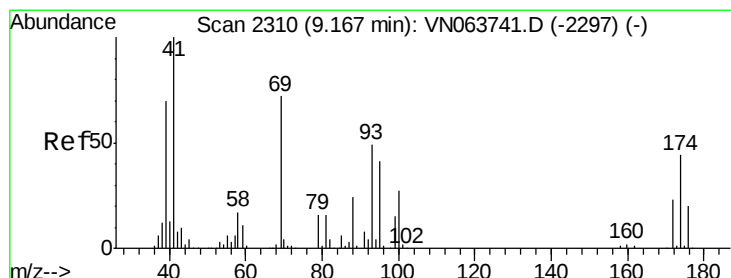
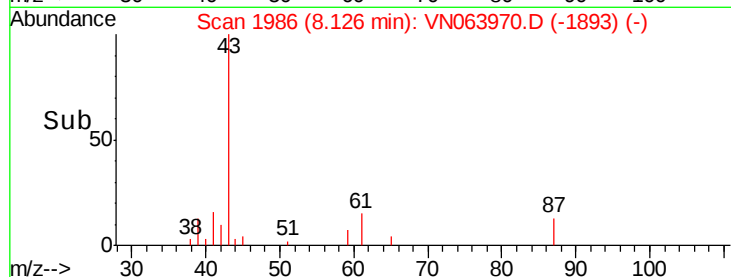
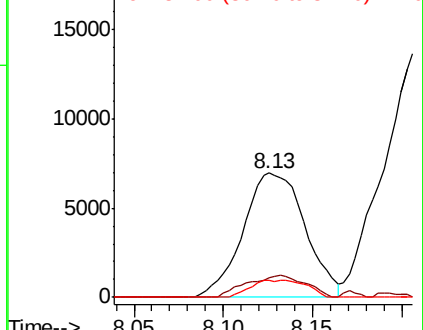
87 12.3 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063970.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN063970.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN063970.D (-1969) (-)



#48

Methyl methacrylate

Concen: 1.626 ug/l

RT: 9.14 min Scan# 2301

Delta R.T. -0.03 min

Lab File: VN063970.D

Acq: 8 Oct 2020 3:41

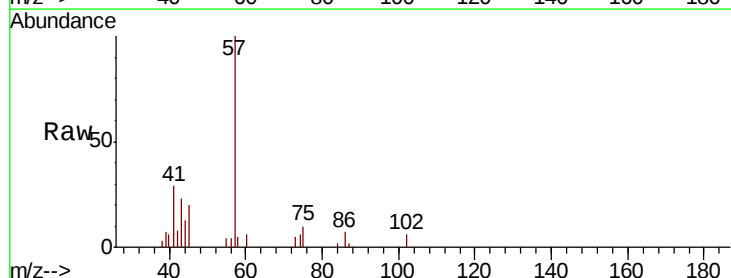
Tgt Ion: 41 Resp: 6111

Ion Ratio Lower Upper

41 100

69 0.0 60.9 91.3#

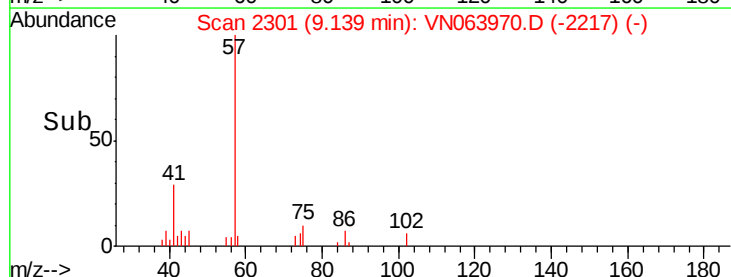
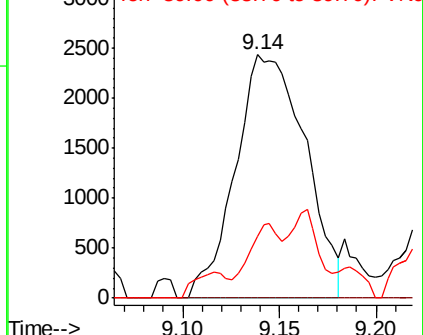
39 10.7 57.5 86.3#

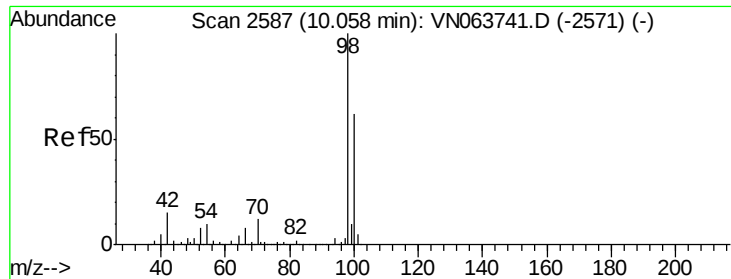


Abundance Ion 41.00 (40.70 to 41.70): VN063970.D (-2217) (-)

Ion 69.00 (68.70 to 69.70): VN063970.D (-2217) (-)

Ion 39.00 (38.70 to 39.70): VN063970.D (-2217) (-)





#50

Toluene-d8

Concen: 48.663 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN063970.D

Acq: 8 Oct 2020 3:41

Instrument :

MSVOA_N

ClientSampleId :

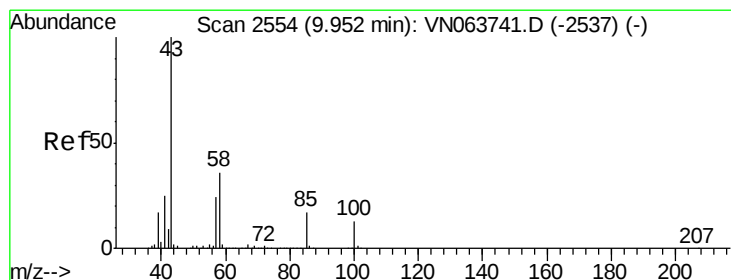
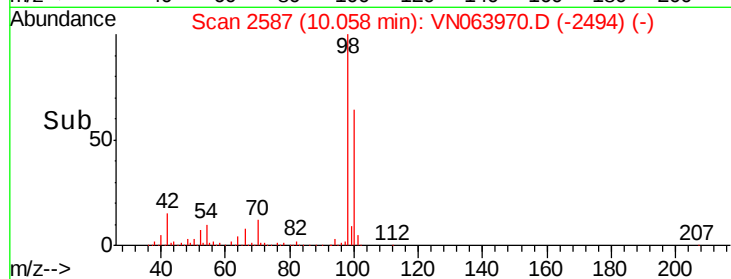
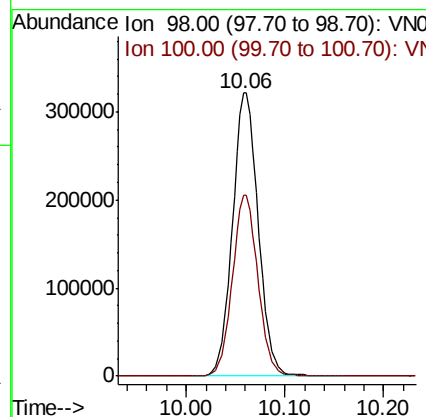
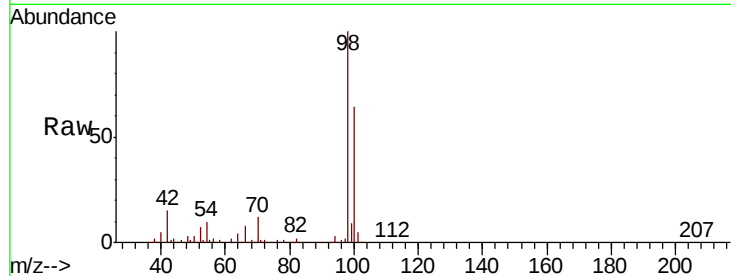
OR-02-100620

Tot Ion: 98 Resp: 586332

Ion Ratio Lower Upper

98 100

100 63.2 49.8 74.6



#51

4-Methyl-2-Pentanone

Concen: 1.797 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN063970.D

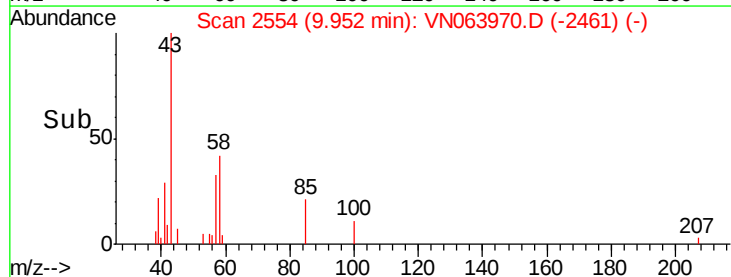
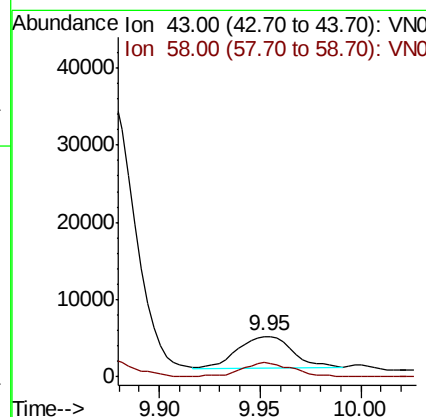
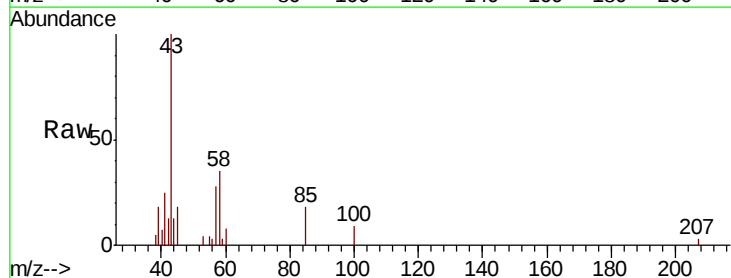
Acq: 8 Oct 2020 3:41

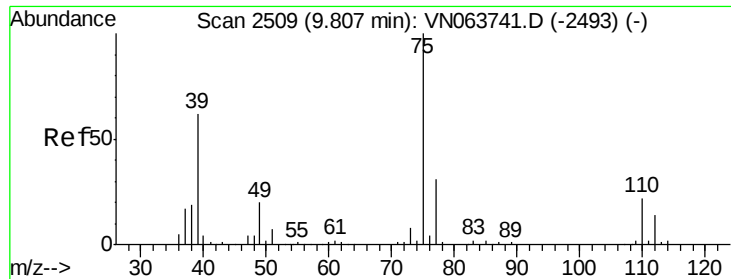
Tgt Ion: 43 Resp: 8018

Ion Ratio Lower Upper

43 100

58 41.1 28.4 42.6



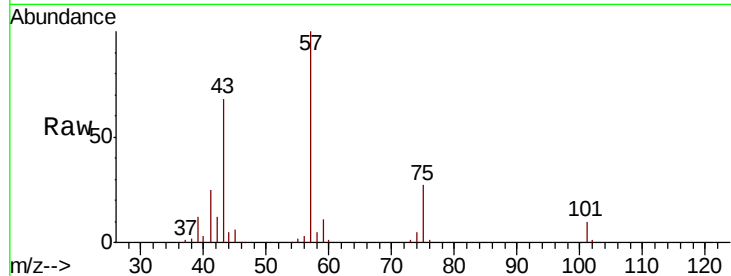


#54

cis-1,3-Dichloropropene
 Concen: 4.713 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063970.D
 Acq: 8 Oct 2020 3:41

Instrument :
 MSVOA_N
 ClientSampleId :
 OR-02-100620

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.6	36.8#
39	44.3	49.7	74.5#

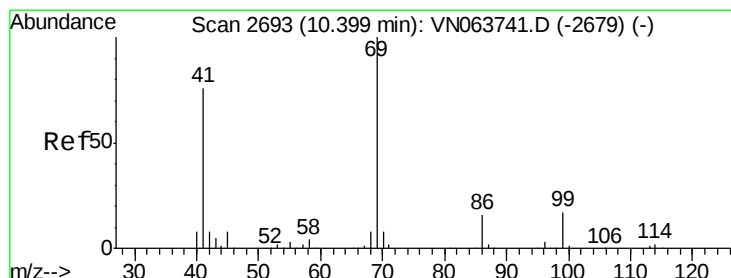
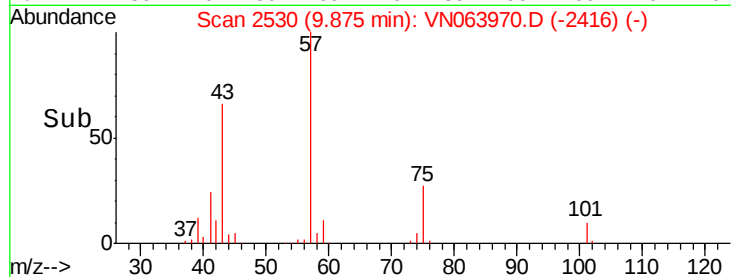
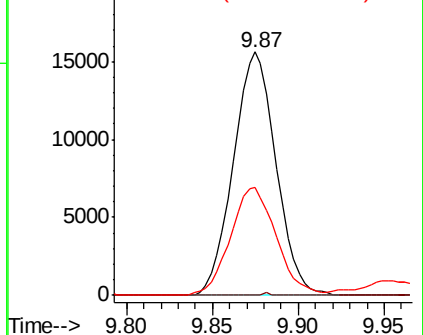


Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

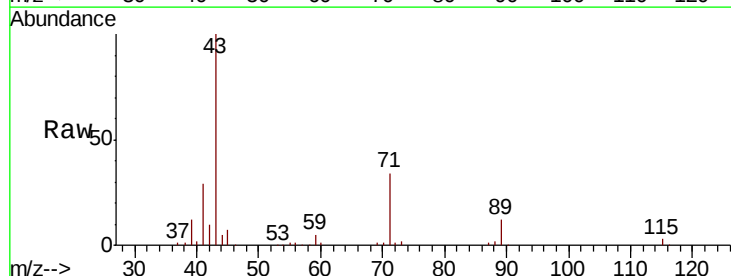
Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate
 Concen: 0.536 ug/l
 RT: 10.52 min Scan# 2730
 Delta R.T. 0.12 min
 Lab File: VN063970.D
 Acq: 8 Oct 2020 3:41

Tgt Ion	Ratio	Lower	Upper
69	100		
41	3063.0	61.1	91.7#
39	1426.6	42.2	63.4#

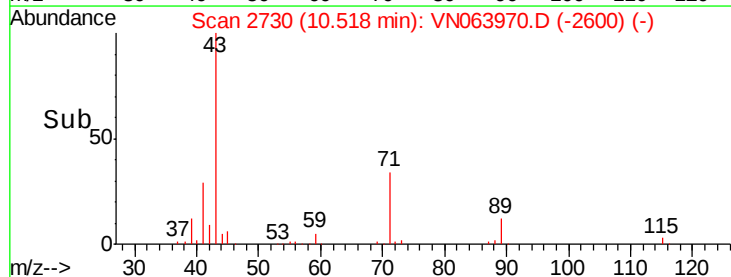
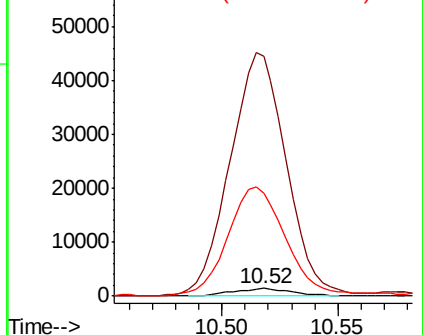


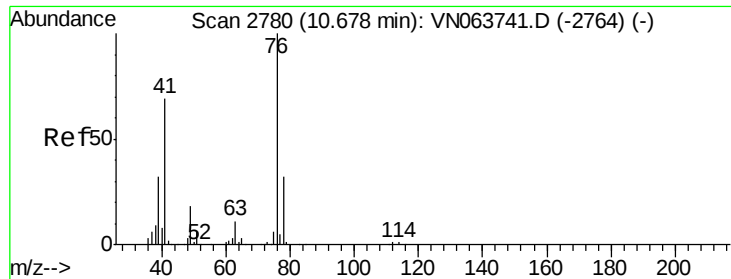
Abundance

Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

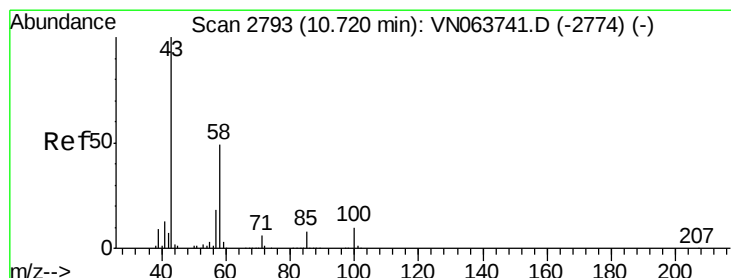
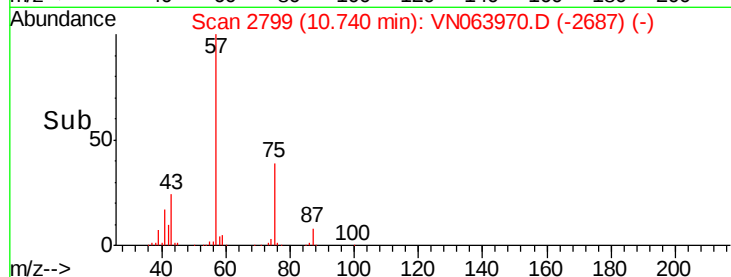
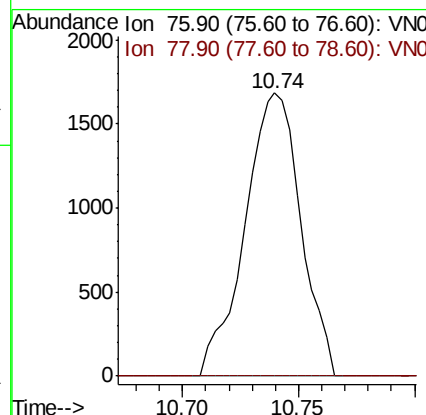
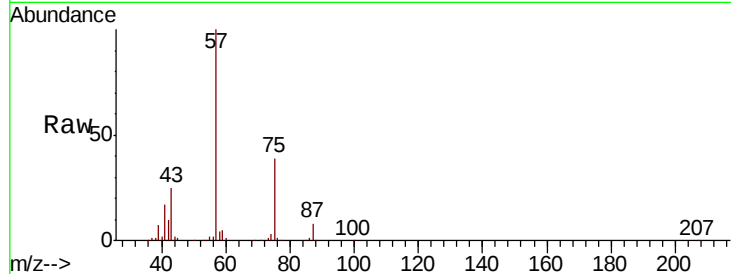




#57
 1,3-Dichloropropane
 Concen: 0.508 ug/l
 RT: 10.74 min Scan# 2799
 Delta R.T. 0.06 min
 Lab File: VN063970.D
 Acq: 8 Oct 2020 3:41

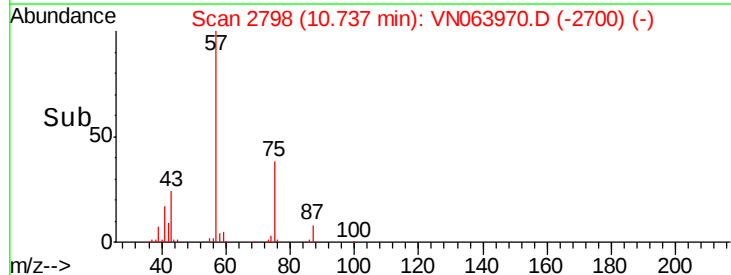
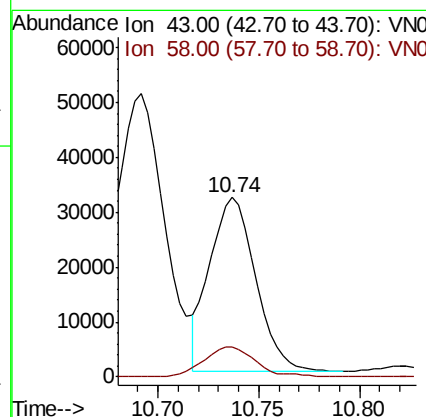
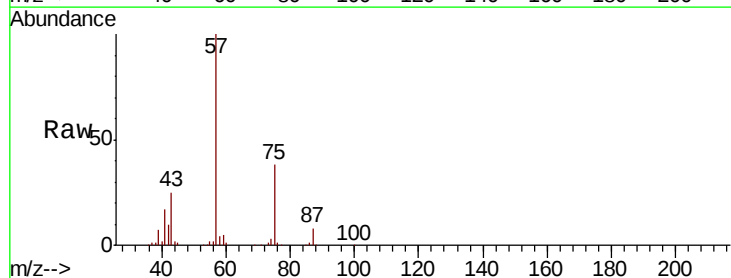
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-02-100620

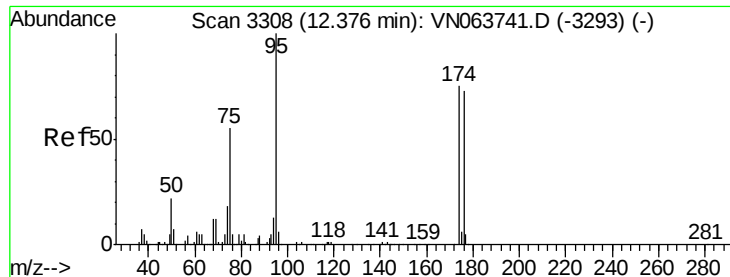
Tot Ion: 76 Resp: 2824
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.2 37.8#



#59
 2-Hexanone
 Concen: 15.172 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN063970.D
 Acq: 8 Oct 2020 3:41

Tgt Ion: 43 Resp: 50298
 Ion Ratio Lower Upper
 43 100
 58 19.4 24.6 73.8#





#62

4-Bromofluorobenzene

Concen: 49.264 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063970.D

Acq: 8 Oct 2020 3:41

Instrument :

MSVOA_N

ClientSampleId :

OR-02-100620

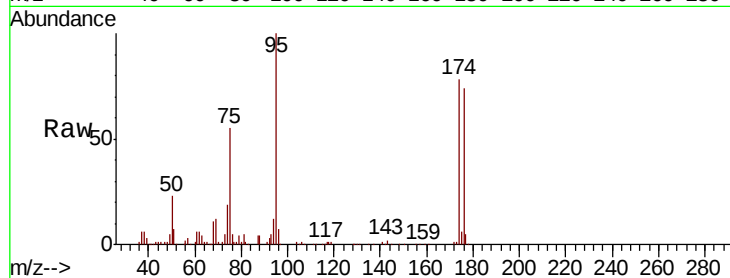
Tot Ion: 95 Resp: 223126

Ion Ratio Lower Upper

95 100

174 77.7 0.0 150.6

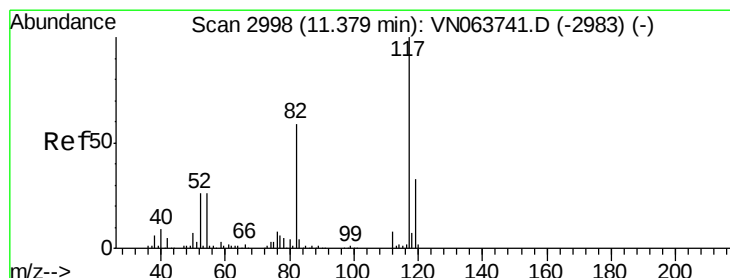
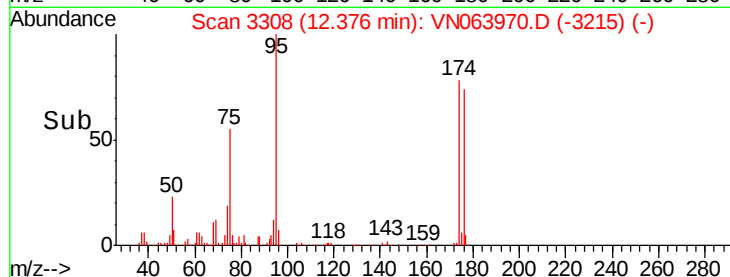
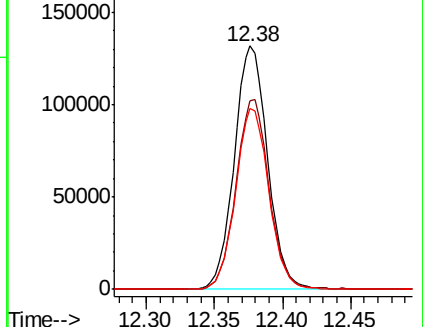
176 74.6 0.0 145.4



Abundance Ion 94.90 (94.60 to 95.60): VN063970.D (-2905) (-)

Ion 173.80 (173.50 to 174.50): VN063970.D (-2905) (-)

Ion 175.80 (175.50 to 176.50): VN063970.D (-2905) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063970.D

Acq: 8 Oct 2020 3:41

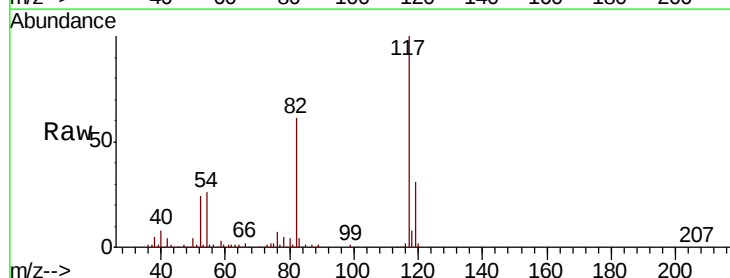
Tgt Ion: 117 Resp: 469352

Ion Ratio Lower Upper

117 100

82 60.6 47.4 71.2

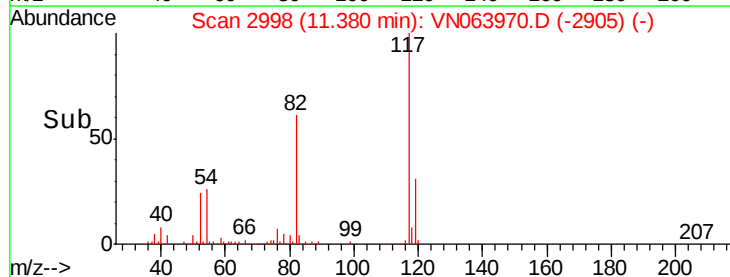
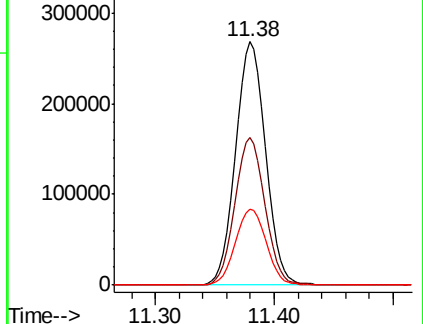
119 31.2 26.4 39.6

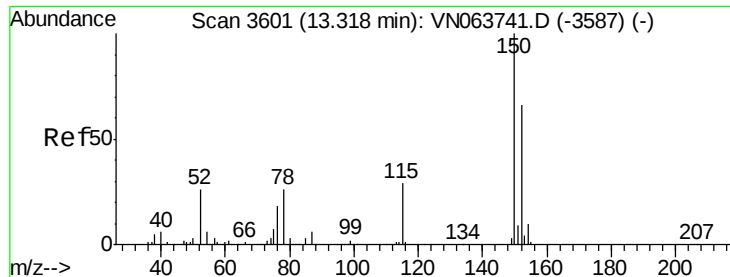


Abundance Ion 116.90 (116.60 to 117.60): VN063970.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063970.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063970.D (-2905) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063970.D

Acq: 8 Oct 2020 3:41

Instrument :

MSVOA_N

ClientSampleId :

OR-02-100620

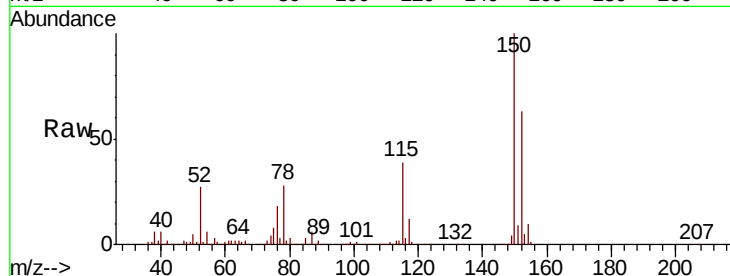
Tot Ion:152 Resp: 192409

Ion Ratio Lower Upper

152 100

115 61.6 31.3 93.8

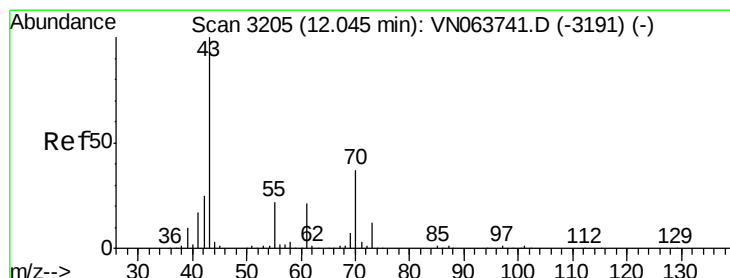
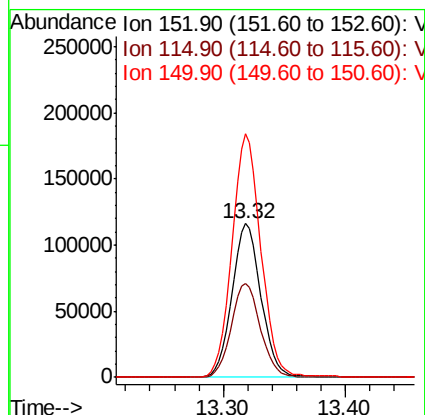
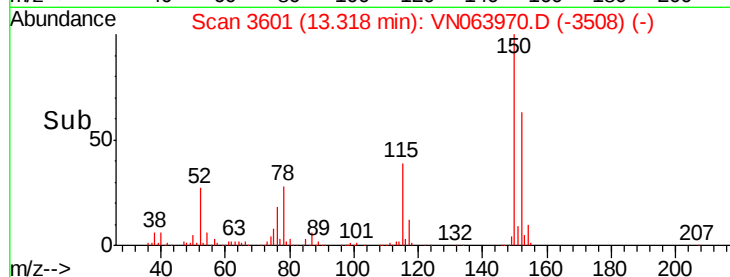
150 157.7 0.0 341.8



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: 2.664 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN063970.D

Acq: 8 Oct 2020 3:41

Tgt Ion: 43 Resp: 3059

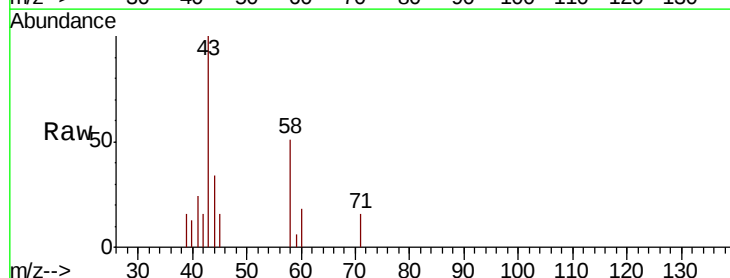
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 7.1 17.9 26.9#

61 0.0 17.0 25.4#

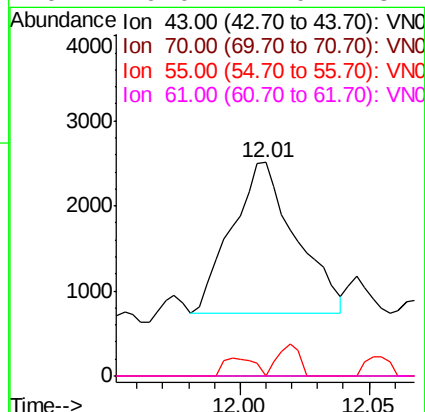
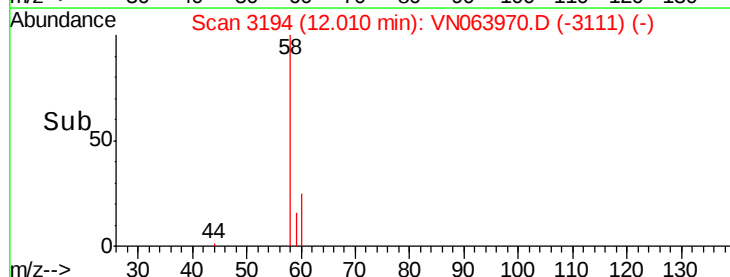


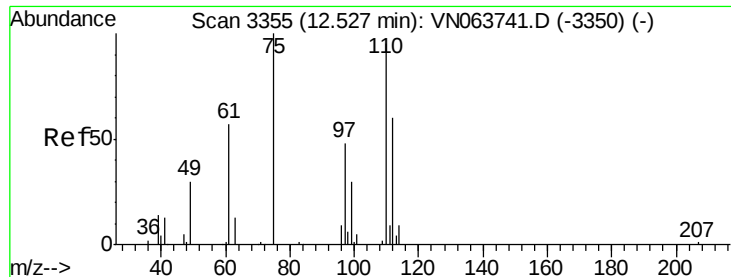
Abundance Ion 43.00 (42.70 to 43.70): V

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: 28.845 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063970.D

Acq: 8 Oct 2020 3:41

Instrument :

MSVOA_N

ClientSampleId :

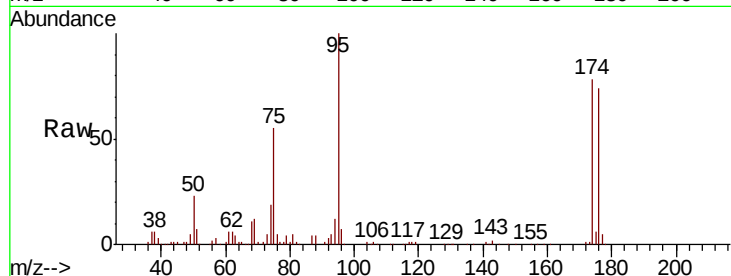
OR-02-100620

Tot Ion: 75 Resp: 122345

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN063970.D (-3308) (-)

Ion 77.00 (76.70 to 77.70): VN063970.D (-3308) (-)

12.38

80000

60000

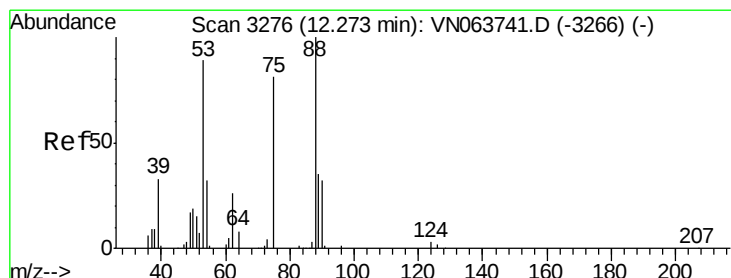
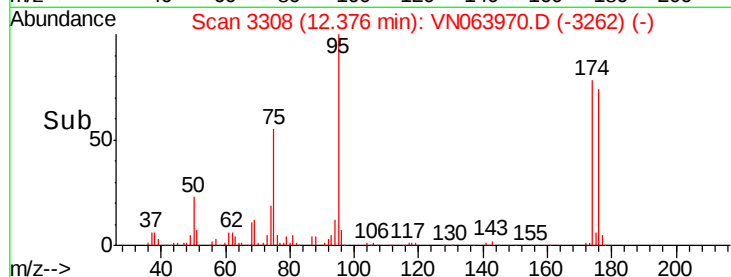
40000

20000

0

12.30 12.40

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 83.078 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063970.D

Acq: 8 Oct 2020 3:41

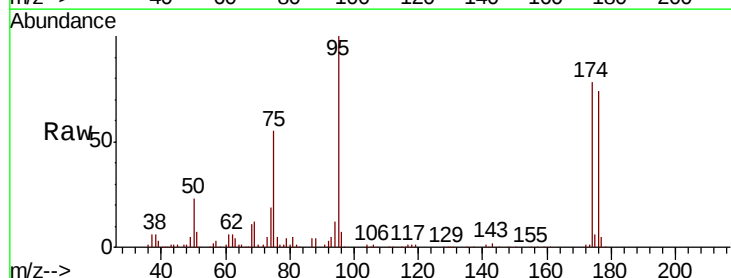
Tgt Ion: 75 Resp: 122345

Ion Ratio Lower Upper

75 100

53 0.0 88.2 132.2#

89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN063970.D (-3308) (-)

Ion 53.00 (52.70 to 53.70): VN063970.D (-3308) (-)

Ion 88.90 (88.60 to 89.60): VN063970.D (-3308) (-)

12.38

100000

80000

60000

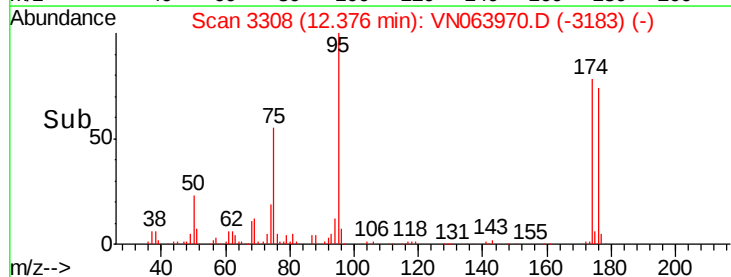
40000

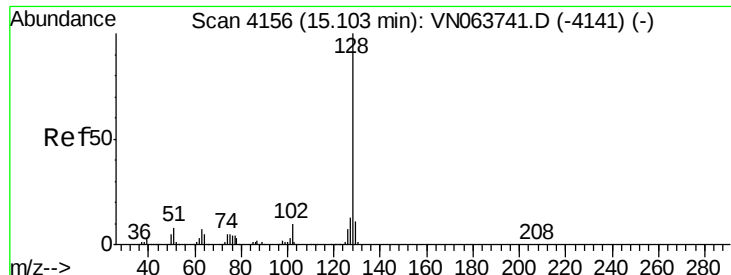
20000

0

12.30 12.40

Time-->





#95

Naphthalene

Concen: 2.138 ug/l

RT: 15.11 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN063970.D

Acq: 8 Oct 2020 3:41

Instrument :

MSVOA_N

ClientSampleId :

OR-02-100620

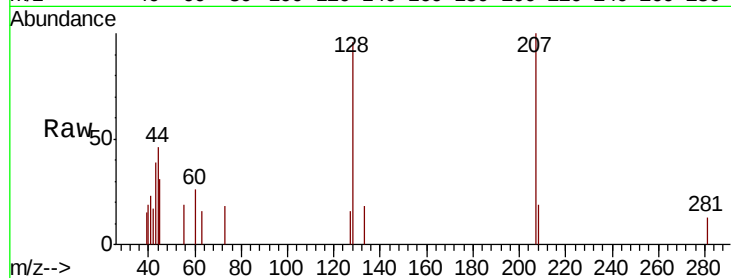
Tot Ion:128 Resp: 2302

Ion Ratio Lower Upper

128 100

127 7.3 10.5 15.7#

129 1.3 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

