

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100220\
 Data File : VN063851.D
 Acq On : 3 Oct 2020 4:20
 Operator : JC/MD
 Sample : L4198-17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-5

Quant Time: Oct 05 04:25:13 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	212109	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	405231	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	415412	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	165969	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	187887	53.62	ug/l	0.00
Spiked Amount			Recovery	=	107.24%	
35) Dibromofluoromethane	7.55	113	134688	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	
50) Toluene-d8	10.06	98	515573	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	
62) 4-Bromofluorobenzene	12.38	95	199765	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	

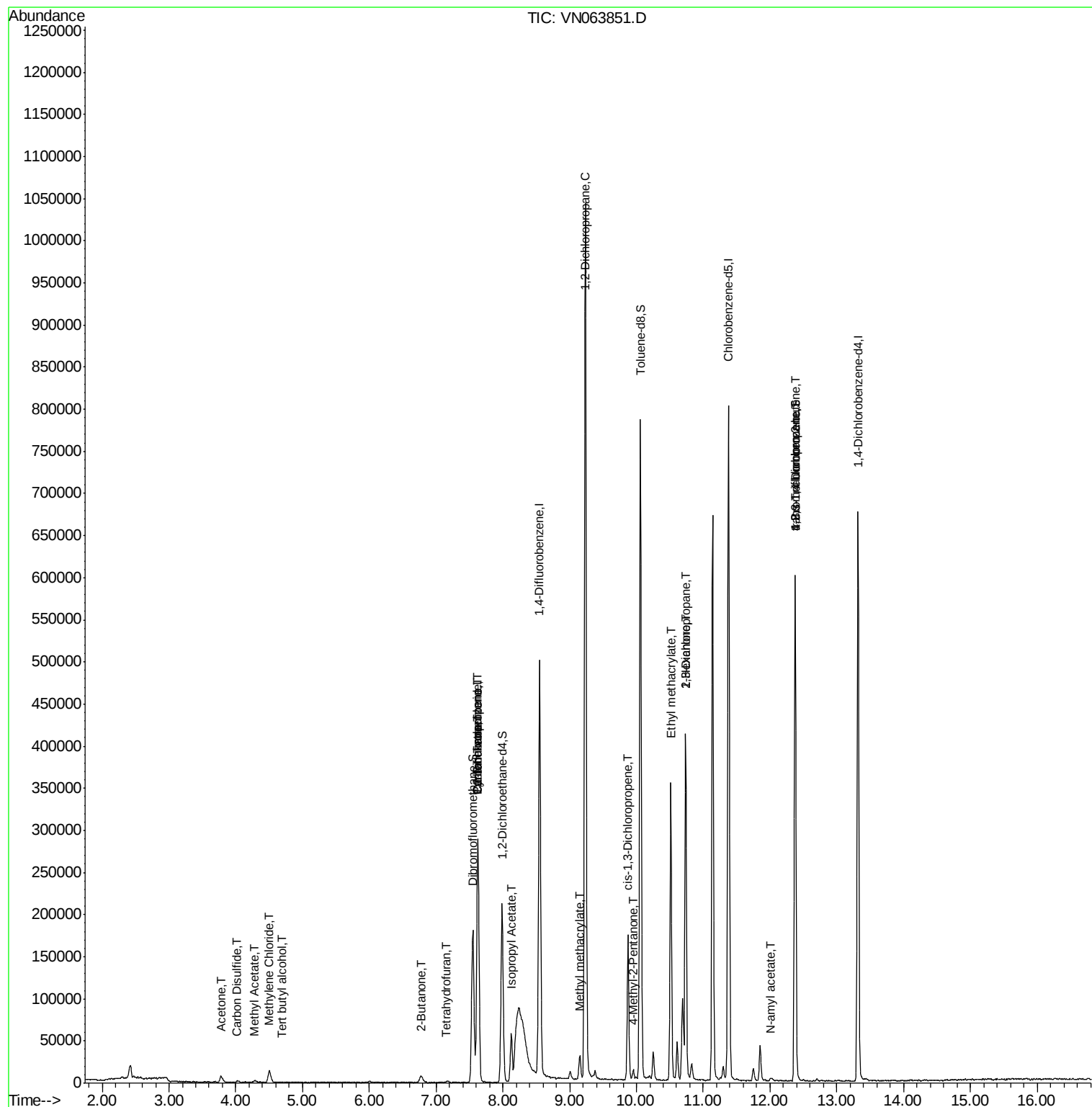
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	107	0.277	ug/l #	71
16) Acetone	3.78	43	13206	12.242	ug/l	95
17) Carbon Disulfide	4.01	76	141	0.725	ug/l #	76
18) Methyl Acetate	4.28	43	1580	0.564	ug/l #	73
20) Methylene Chloride	4.51	84	8808	3.656	ug/l #	89
25) 2-Butanone	6.77	43	648	0.424	ug/l #	72
29) Tetrahydrofuran	7.15	42	308	0.300	ug/l #	69
31) Cyclohexane	7.63	56	5707	1.403	ug/l #	15
36) 1,1-Dichloropropene	7.62	75	19477	4.744	ug/l #	47
38) Carbon Tetrachloride	7.62	117	23168	5.033	ug/l #	13
43) Isopropyl Acetate	8.13	43	68206	10.138	ug/l	100
45) 1,2-Dichloropropane	9.24	63	1155	0.365	ug/l #	44
48) Methyl methacrylate	9.15	41	3553	1.069	ug/l #	12
51) 4-Methyl-2-Pentanone	9.96	43	8065	2.043	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	28239	5.595	ug/l #	68
56) Ethyl methacrylate	10.51	69	2092	0.507	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4026	0.818	ug/l #	43
59) 2-Hexanone	10.74	43	63894	21.785	ug/l #	56
74) N-amyl acetate	12.00	43	2593	2.656	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	113271	30.960	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	113271	89.170	ug/l #	6

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

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Quant Title : SW846 8260
QLast Update : Thu Oct 01 01:46:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063851.D

Acq: 3 Oct 2020 4:20

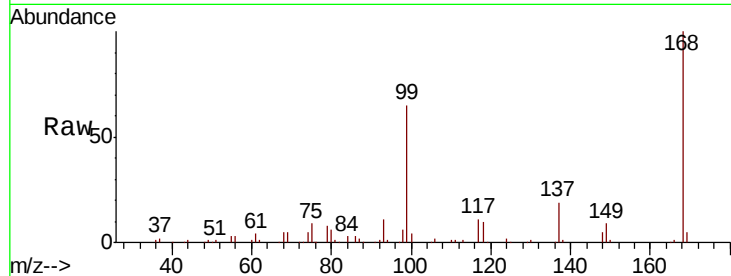
Instrument :
MSVOA_N
ClientSampled :
RO-5

Tot Ion:168 Resp: 212109

Ion Ratio Lower Upper

168 100

99 65.3 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

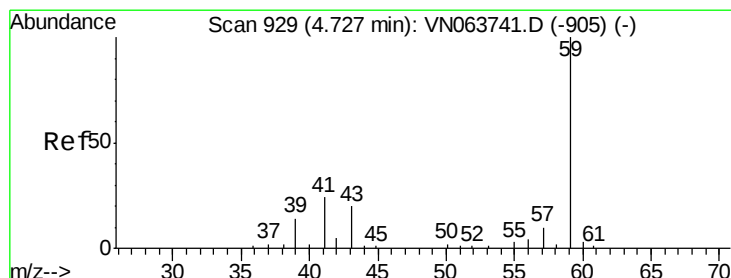
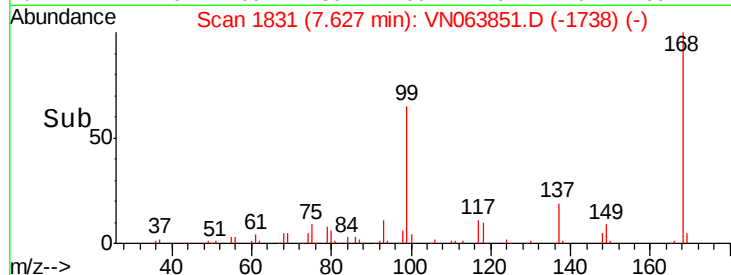
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.277 ug/l

RT: 4.70 min Scan# 922

Delta R.T. -0.02 min

Lab File: VN063851.D

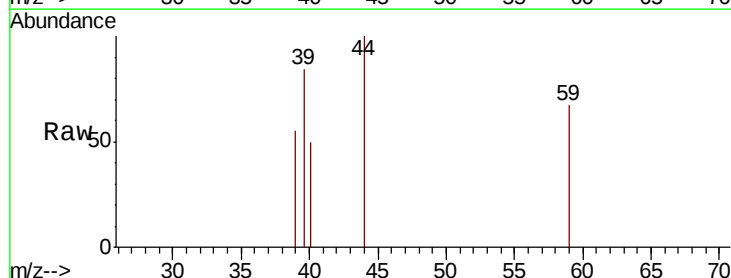
Acq: 3 Oct 2020 4:20

Tgt Ion: 59 Resp: 107

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.70

250

200

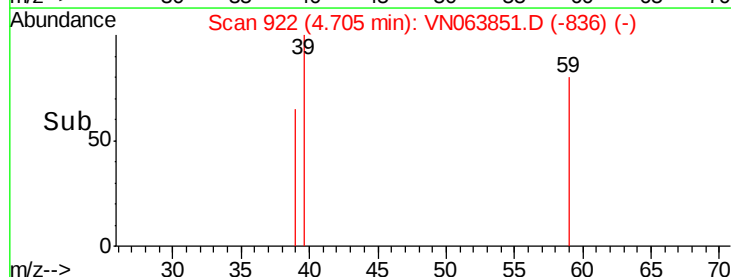
150

100

50

0

Time--> 4.70 4.71 4.72





#16

Acetone

Concen: 12.242 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063851.D

Acq: 3 Oct 2020 4:20

Instrument :

MSVOA_N

ClientSampled :

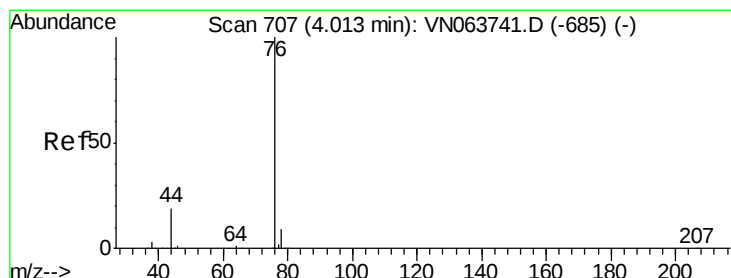
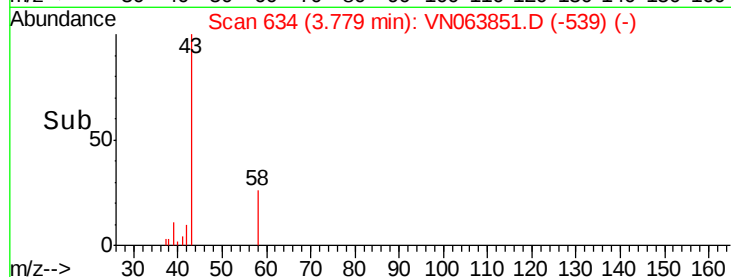
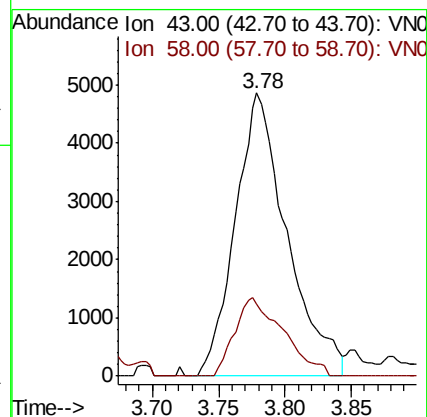
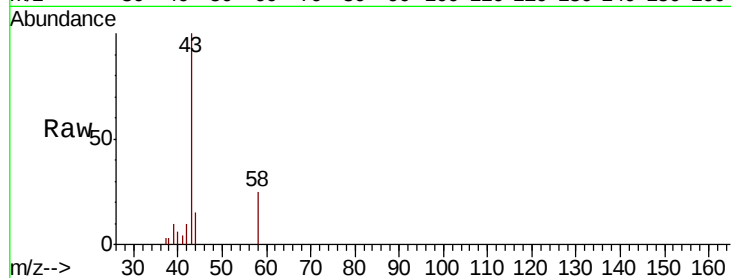
RO-5

Tot Ion: 43 Resp: 13206

Ion Ratio Lower Upper

43 100

58 25.5 22.3 33.5



#17

Carbon Disulfide

Concen: 0.725 ug/l

RT: 4.01 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN063851.D

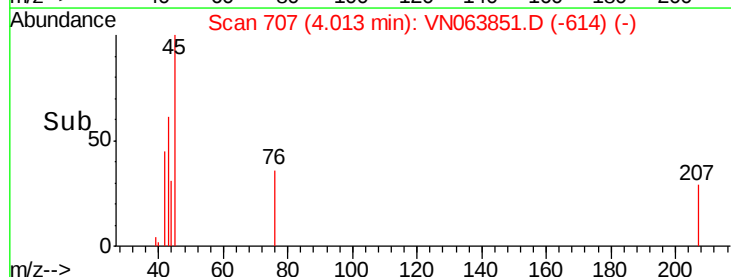
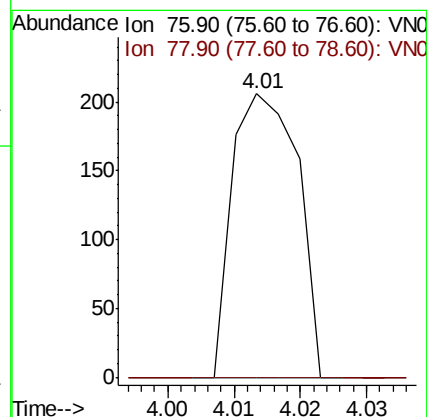
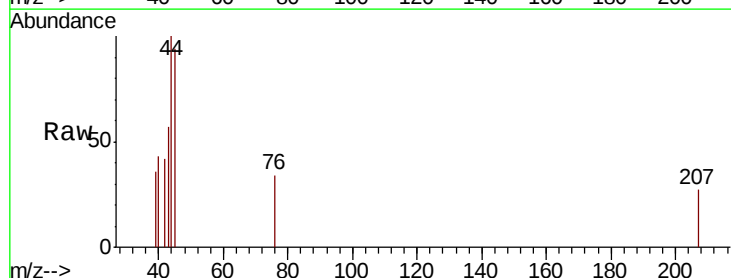
Acq: 3 Oct 2020 4:20

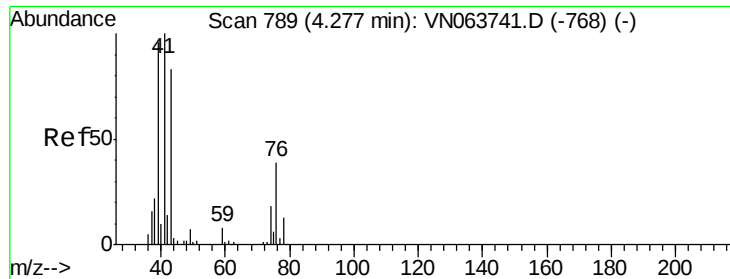
Tgt Ion: 76 Resp: 141

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#

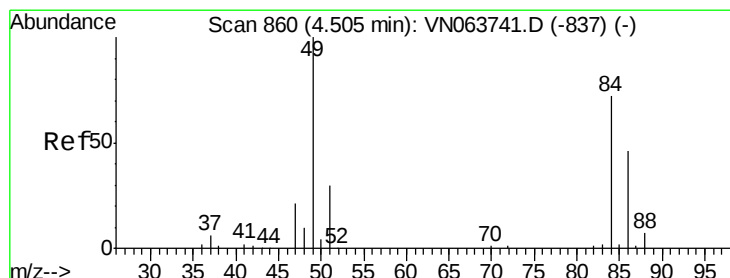
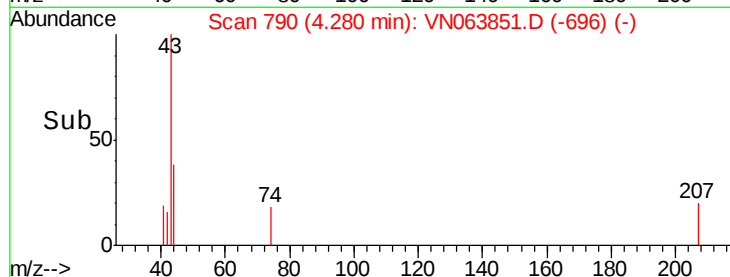
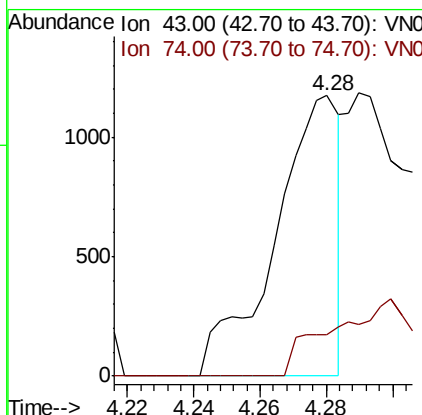
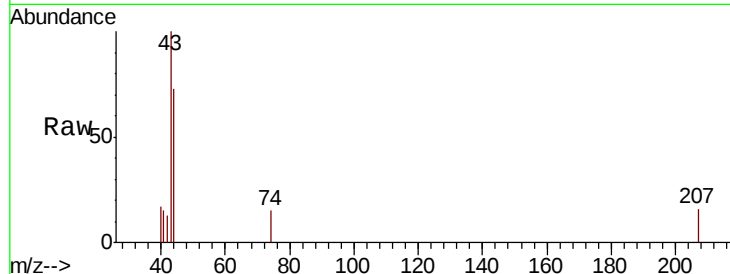




#18
Methyl Acetate
Concen: 0.564 ug/l
RT: 4.28 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN063851.D
Acq: 3 Oct 2020 4:20

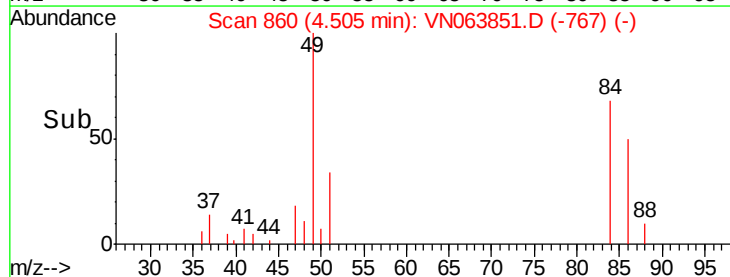
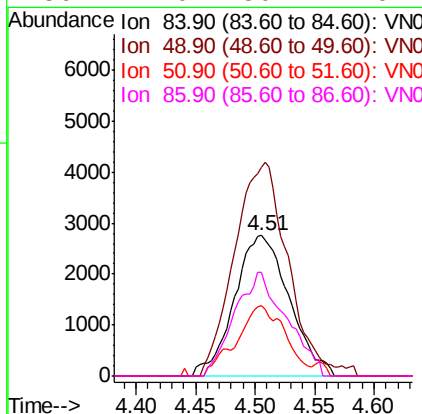
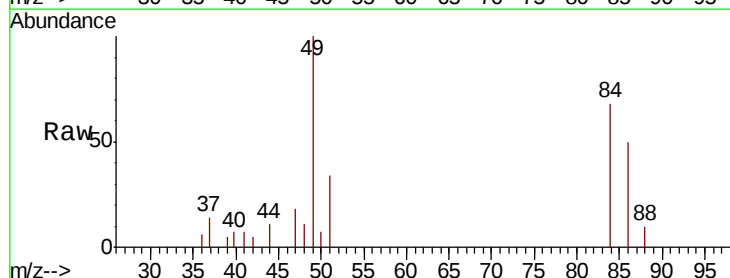
Instrument :
MSVOA_N
ClientSampled :
RO-5

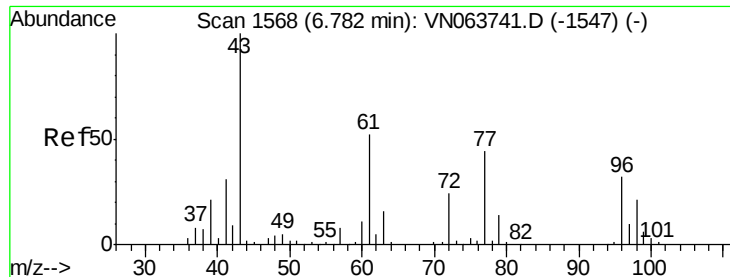
Tot Ion: 43 Resp: 1580
Ion Ratio Lower Upper
43 100
74 34.6 17.4 26.2#



#20
Methylene Chloride
Concen: 3.656 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063851.D
Acq: 3 Oct 2020 4:20

Tgt Ion: 84 Resp: 8808
Ion Ratio Lower Upper
84 100
49 148.0 110.4 165.6
51 50.0 33.3 49.9#
86 74.0 50.7 76.1

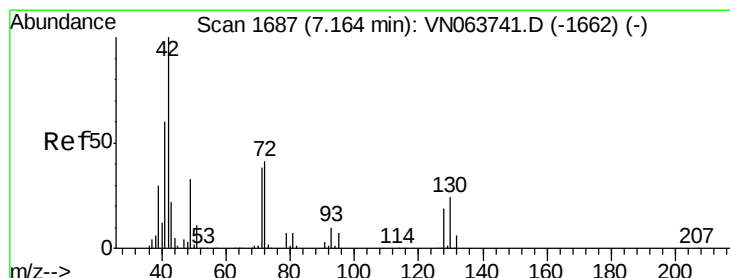
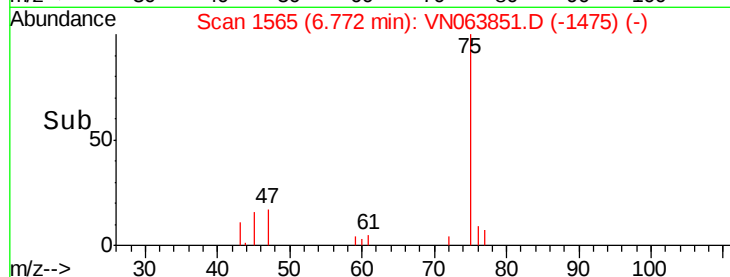
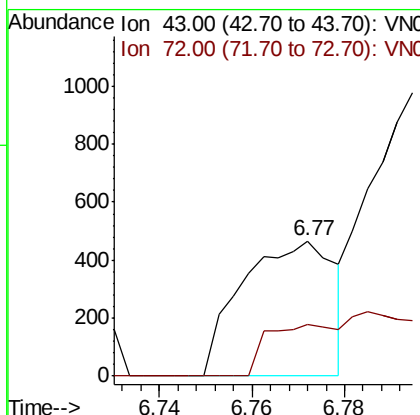
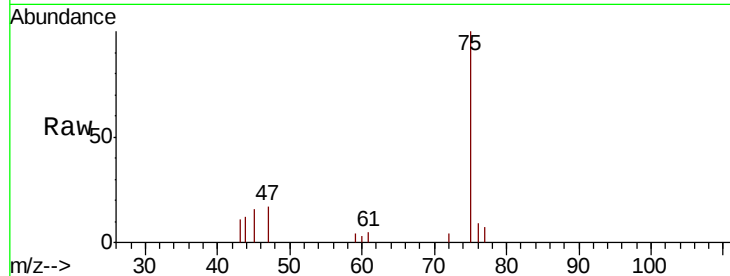




#25
2-Butanone
Concen: 0.424 ug/l
RT: 6.77 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VN063851.D
Acq: 3 Oct 2020 4:20

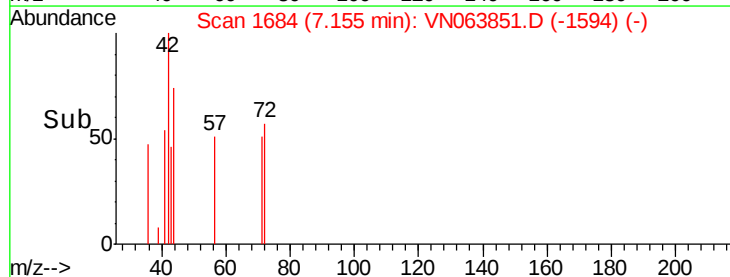
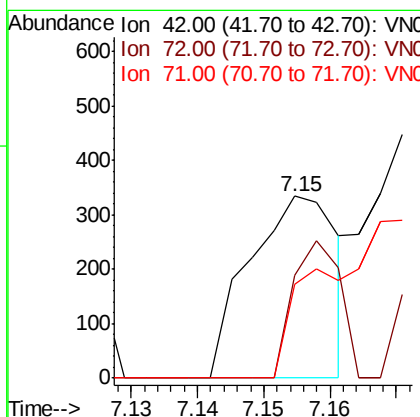
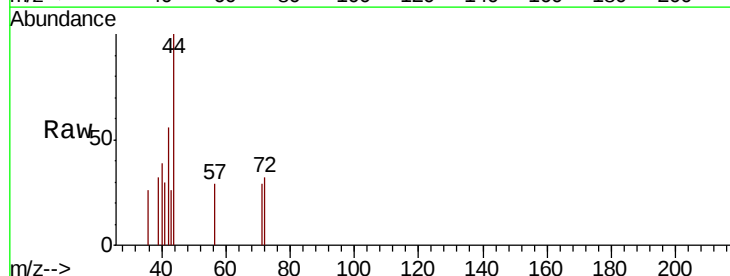
Instrument :
MSVOA_N
ClientSampled :
RO-5

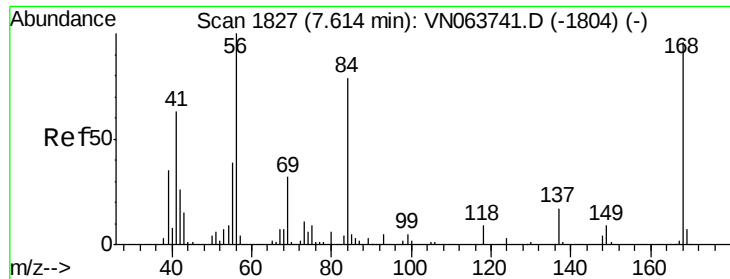
Tot Ion: 43 Resp: 648
Ion Ratio Lower Upper
43 100
72 38.1 19.3 28.9#



#29
Tetrahydrofuran
Concen: 0.300 ug/l
RT: 7.15 min Scan# 1684
Delta R.T. -0.01 min
Lab File: VN063851.D
Acq: 3 Oct 2020 4:20

Tgt Ion: 42 Resp: 308
Ion Ratio Lower Upper
42 100
72 40.6 32.8 49.2
71 0.0 30.6 45.8#

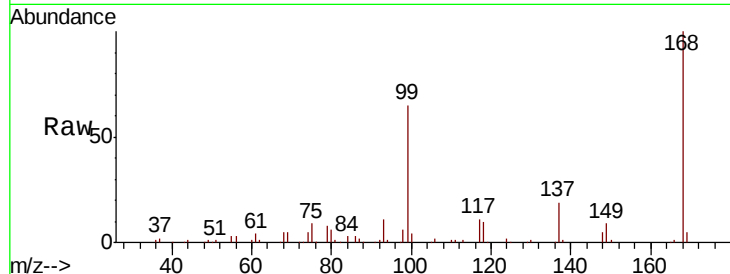




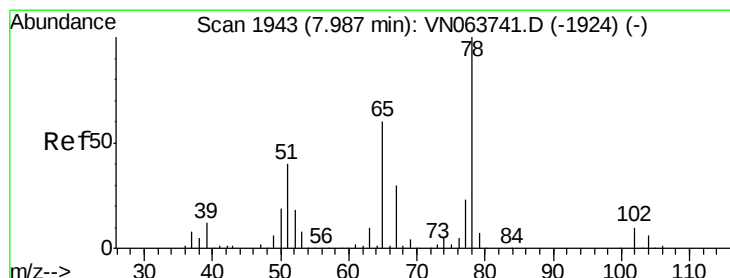
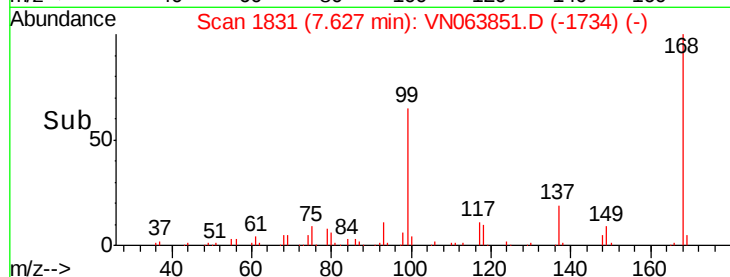
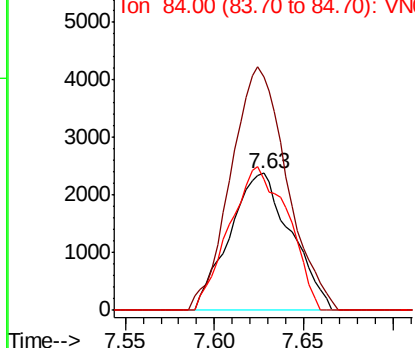
#31
Cyclohexane
Concen: 1.403 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063851.D
Acq: 3 Oct 2020 4:20

Instrument :
MSVOA_N
ClientSampled :
RO-5

Tot Ion: 56 Resp: 5707
Ion Ratio Lower Upper
56 100
69 170.2 25.4 38.2#
84 95.8 63.3 94.9#

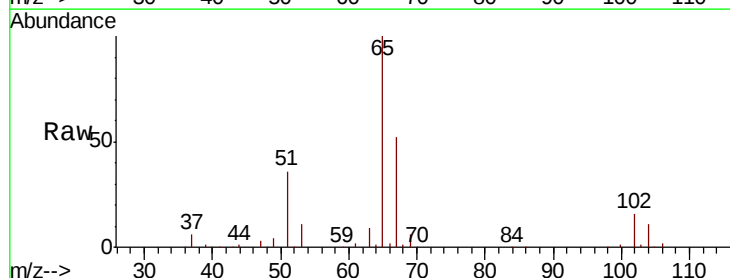


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

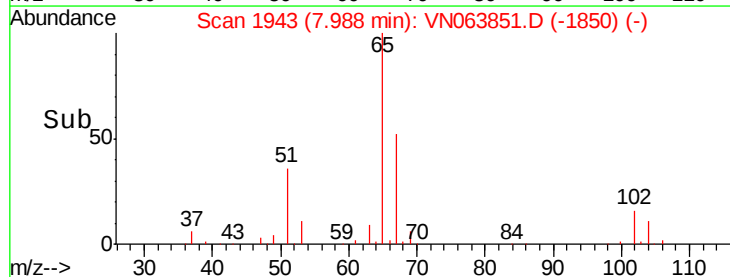
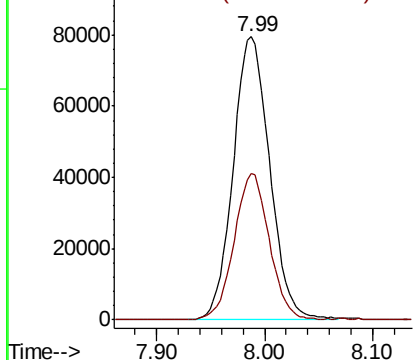


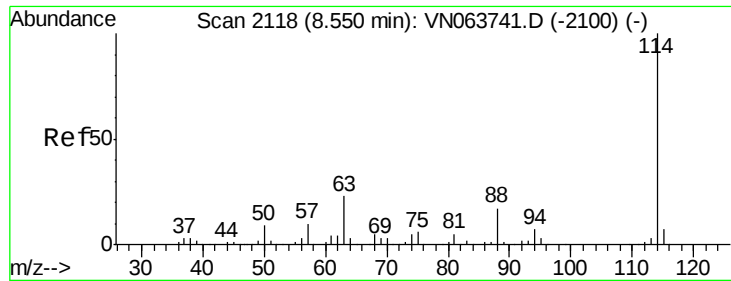
#33
1,2-Dichloroethane-d4
Concen: 53.618 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN063851.D
Acq: 3 Oct 2020 4:20

Tgt Ion: 65 Resp: 187887
Ion Ratio Lower Upper
65 100
67 49.7 0.0 99.6



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

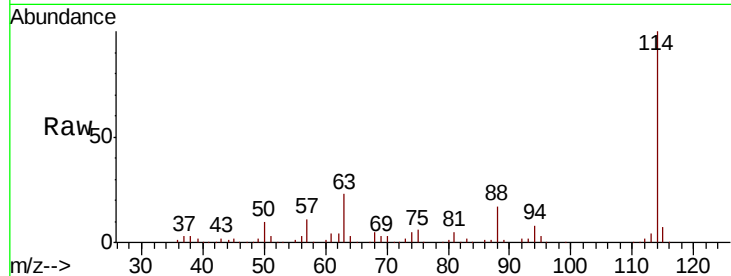




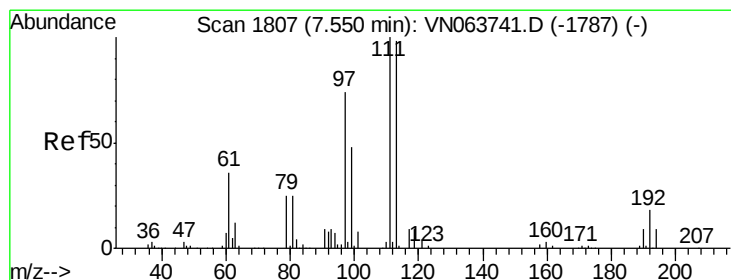
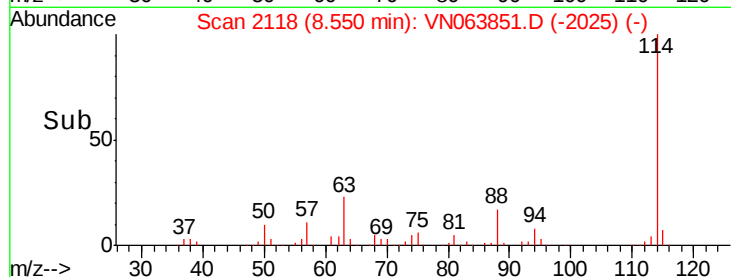
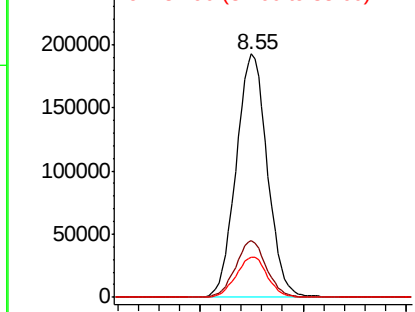
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN063851.D
Acq: 3 Oct 2020 4:20

Instrument :
MSVOA_N
ClientSampled :
RO-5

Tot Ion:114 Resp: 405231
Ion Ratio Lower Upper
114 100
63 23.2 0.0 45.0
88 16.6 0.0 34.0

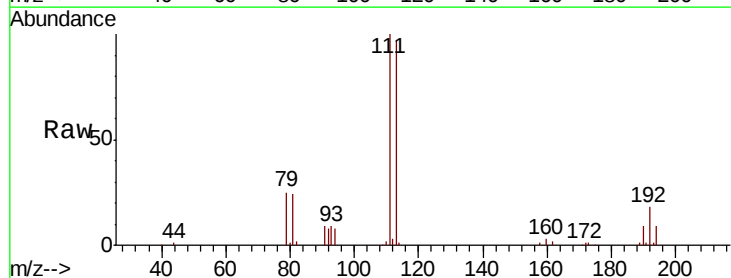


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

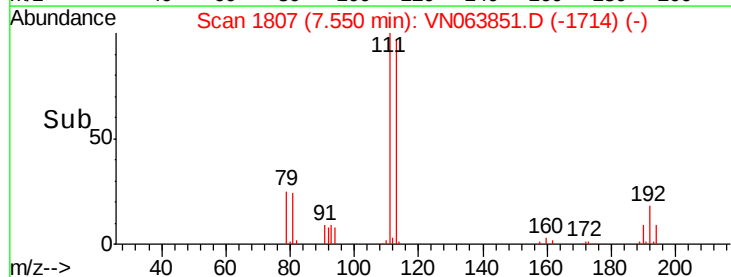
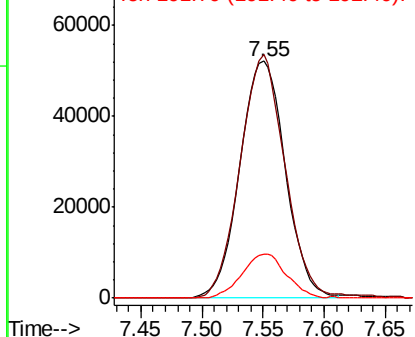


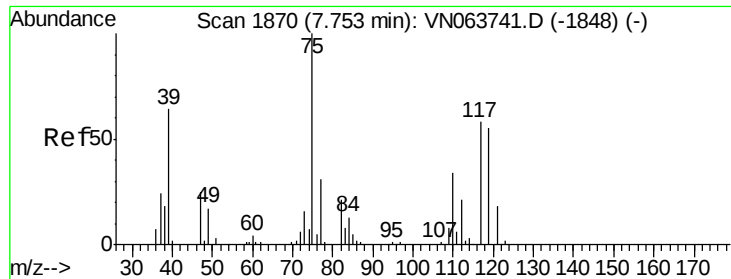
#35
Dibromofluoromethane
Concen: 47.901 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063851.D
Acq: 3 Oct 2020 4:20

Tgt Ion:113 Resp: 134688
Ion Ratio Lower Upper
113 100
111 101.2 81.8 122.8
192 18.2 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

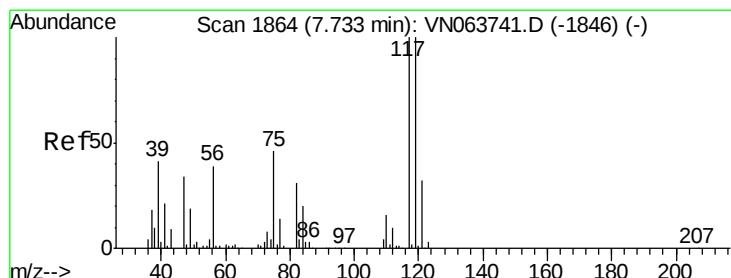
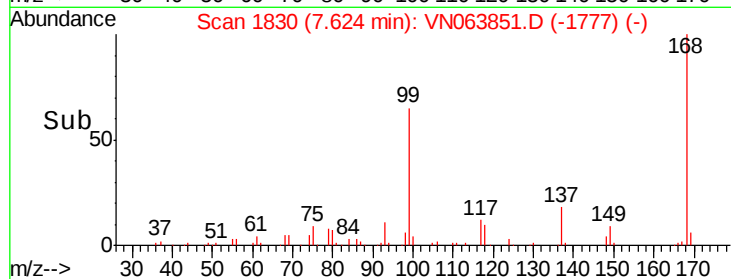
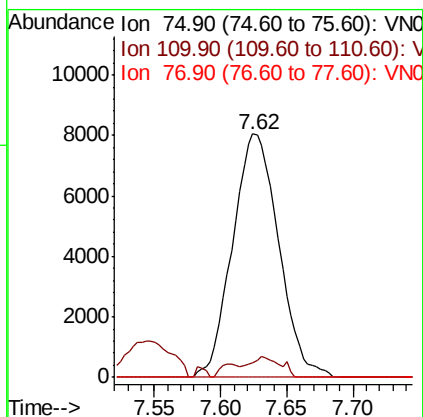
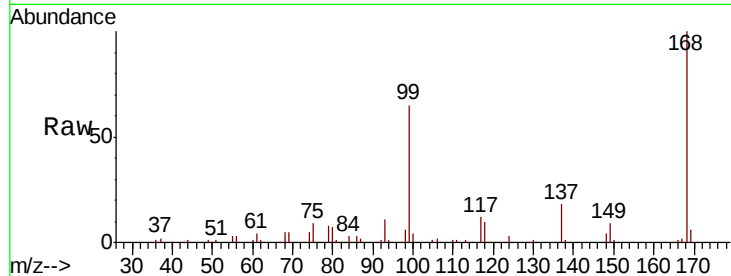




#36
 1,1-Dichloropropene
 Concen: 4.744 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063851.D
 Acq: 3 Oct 2020 4:20

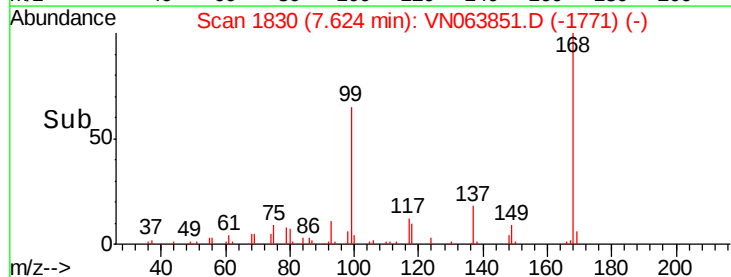
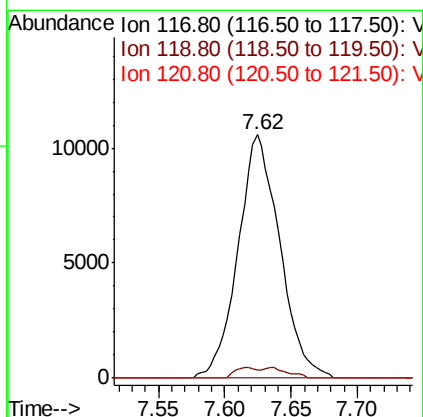
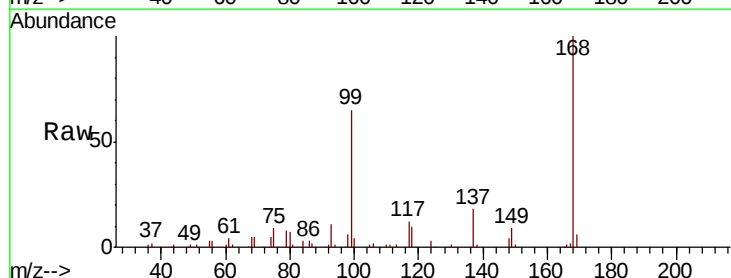
Instrument :
 MSVOA_N
 ClientSampled :
 RO-5

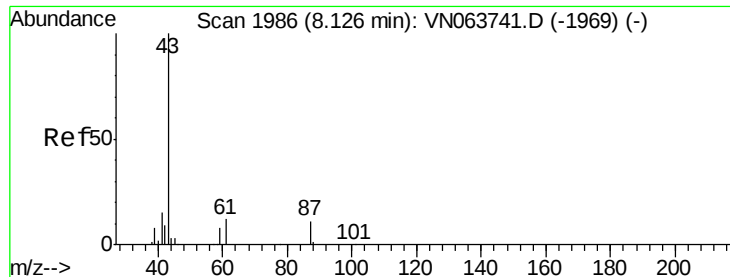
Tot Ion: 75 Resp: 19477
 Ion Ratio Lower Upper
 75 100
 110 5.4 16.9 50.6#
 77 0.0 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 5.033 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN063851.D
 Acq: 3 Oct 2020 4:20

Tgt Ion: 117 Resp: 23168
 Ion Ratio Lower Upper
 117 100
 119 3.3 80.1 120.1#
 121 0.0 25.7 38.5#





#43

Isopropyl Acetate

Concen: 10.138 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063851.D

Acq: 3 Oct 2020 4:20

Instrument :

MSVOA_N

ClientSampled :

RO-5

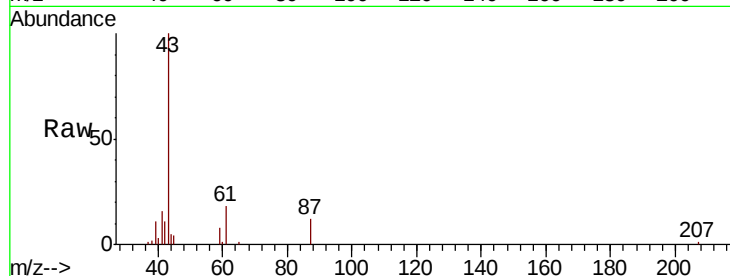
Tot Ion: 43 Resp: 68206

Ion Ratio Lower Upper

43 100

61 17.5 14.2 21.4

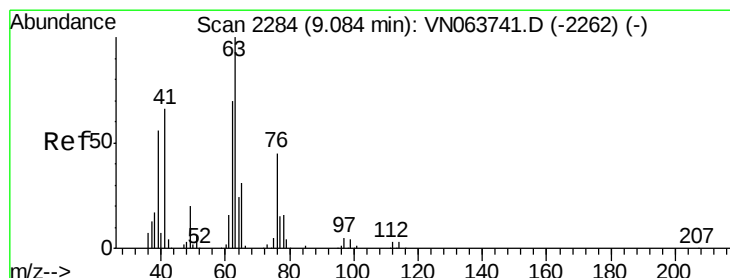
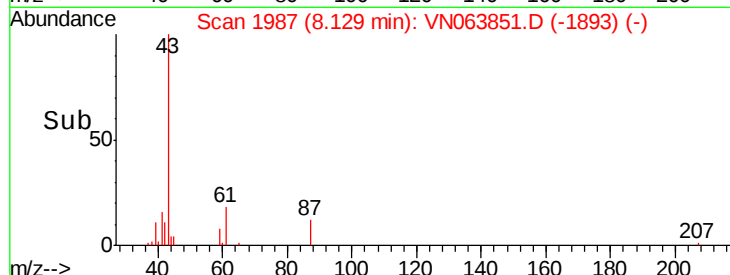
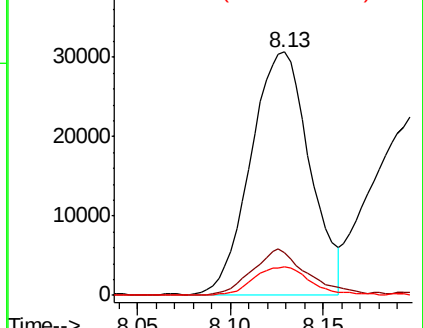
87 11.3 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063851.D (-1986) (-)

Ion 61.00 (60.70 to 61.70): VN063851.D (-1986) (-)

Ion 87.00 (86.70 to 87.70): VN063851.D (-1986) (-)



#45

1,2-Dichloropropane

Concen: 0.365 ug/l

RT: 9.24 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063851.D

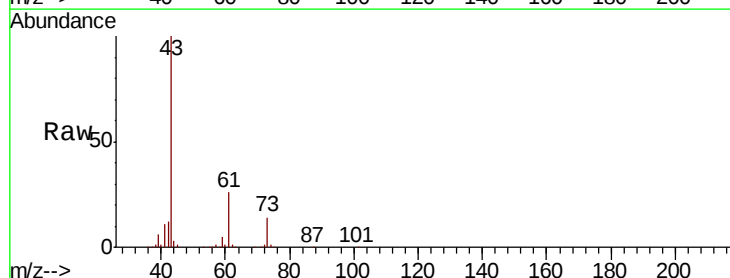
Acq: 3 Oct 2020 4:20

Tgt Ion: 63 Resp: 1155

Ion Ratio Lower Upper

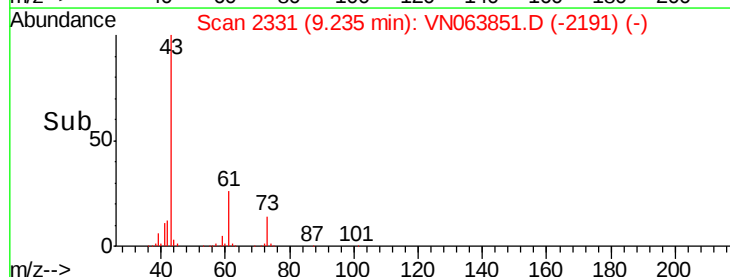
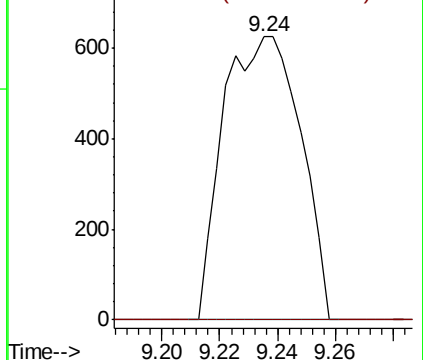
63 100

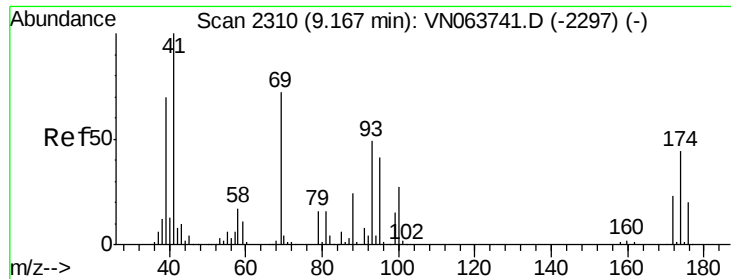
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN063851.D (-2331) (-)

Ion 64.90 (64.60 to 65.60): VN063851.D (-2331) (-)

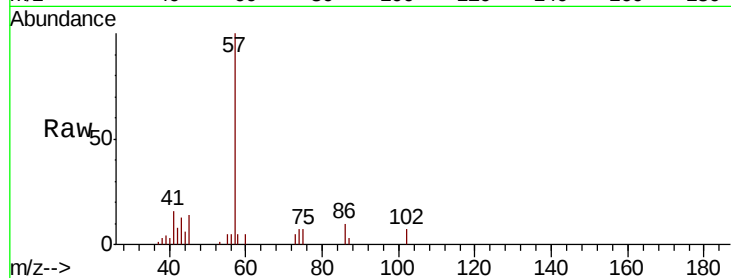




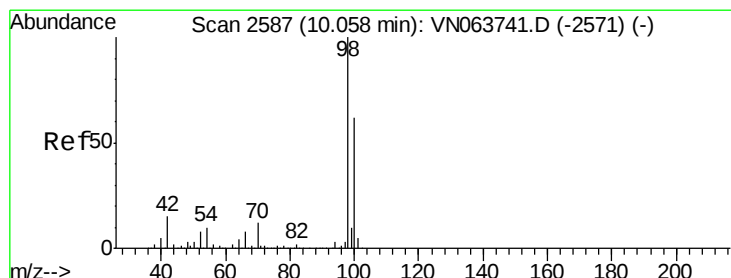
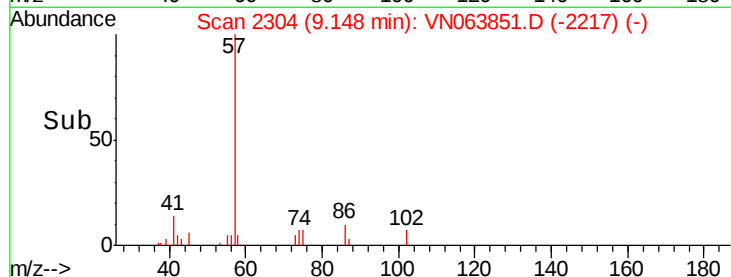
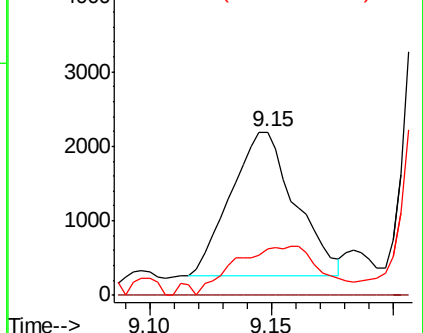
#48
Methyl methacrylate
Concen: 1.069 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN063851.D
Acq: 3 Oct 2020 4:20

Instrument :
MSVOA_N
ClientSampleId :
RO-5

Tot Ion: 41 Resp: 3553
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 0.0 57.5 86.3#

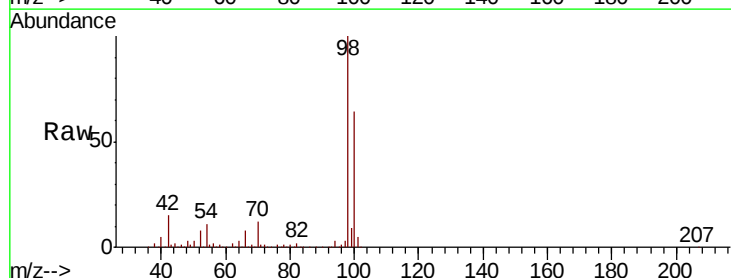


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

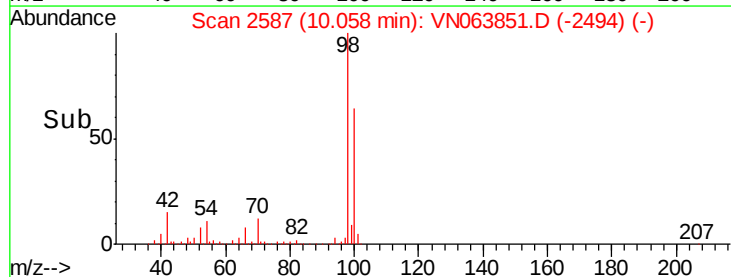
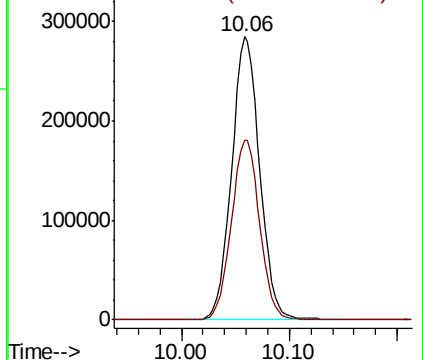


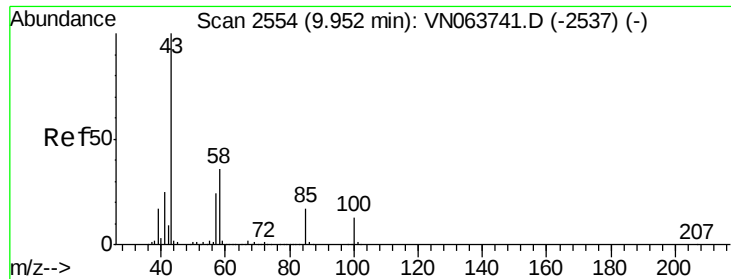
#50
Toluene-d8
Concen: 48.369 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN063851.D
Acq: 3 Oct 2020 4:20

Tgt Ion: 98 Resp: 515573
Ion Ratio Lower Upper
98 100
100 64.2 49.8 74.6



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

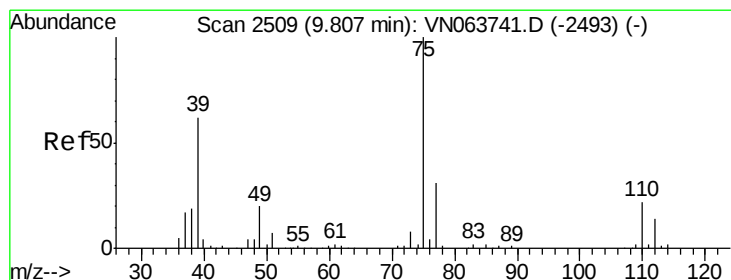
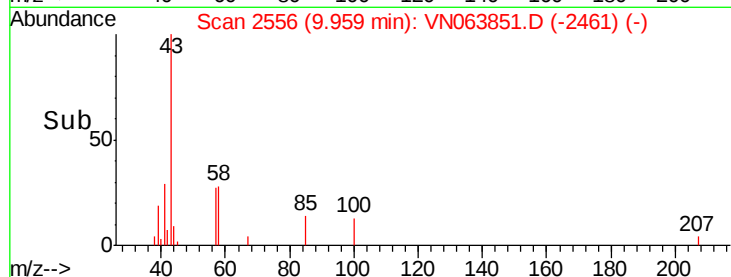
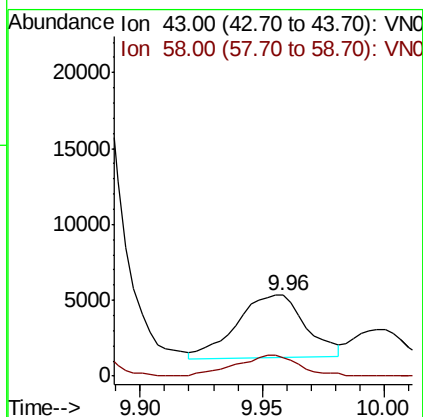
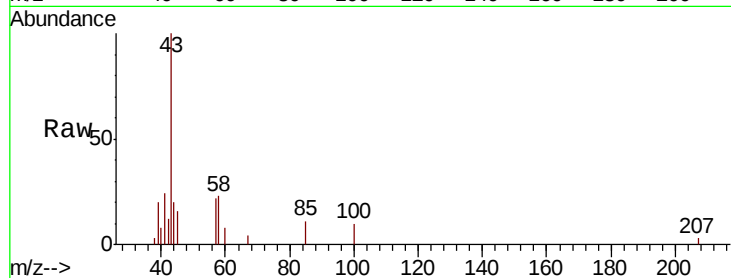




#51
4-Methyl-2-Pentanone
Concen: 2.043 ug/l
RT: 9.96 min Scan# 2556
Delta R.T. 0.01 min
Lab File: VN063851.D
Acq: 3 Oct 2020 4:20

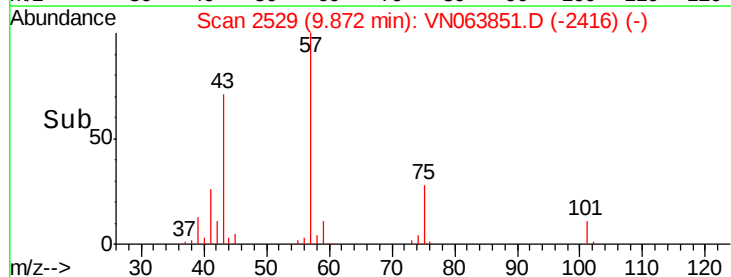
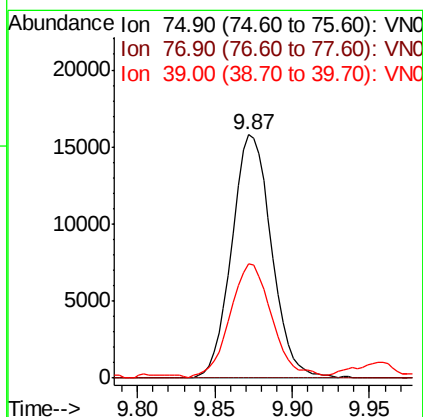
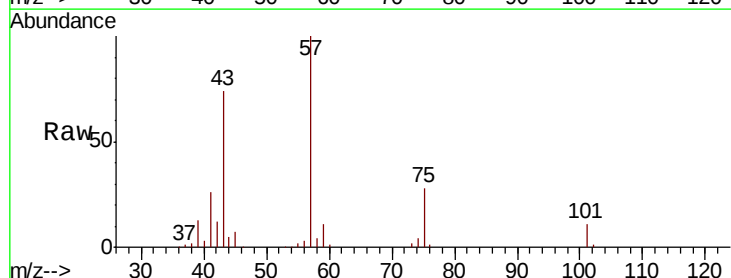
Instrument :
MSVOA_N
ClientSampled :
RO-5

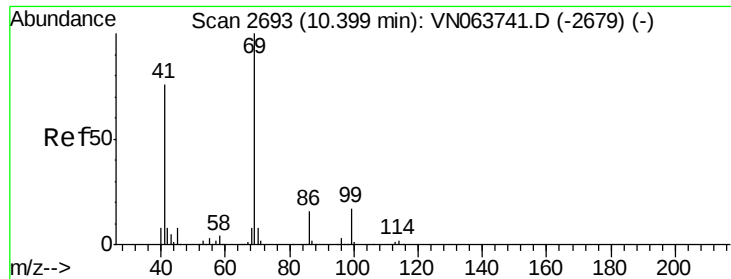
Tot Ion: 43 Resp: 8065
Ion Ratio Lower Upper
43 100
58 31.0 28.4 42.6



#54
cis-1,3-Dichloropropene
Concen: 5.595 ug/l
RT: 9.87 min Scan# 2529
Delta R.T. 0.06 min
Lab File: VN063851.D
Acq: 3 Oct 2020 4:20

Tgt Ion: 75 Resp: 28239
Ion Ratio Lower Upper
75 100
77 0.0 24.6 36.8#
39 46.9 49.7 74.5#





#56

Ethyl methacrylate

Concen: 0.507 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063851.D

Acq: 3 Oct 2020 4:20

Instrument :

MSVOA_N

ClientSampled :

RO-5

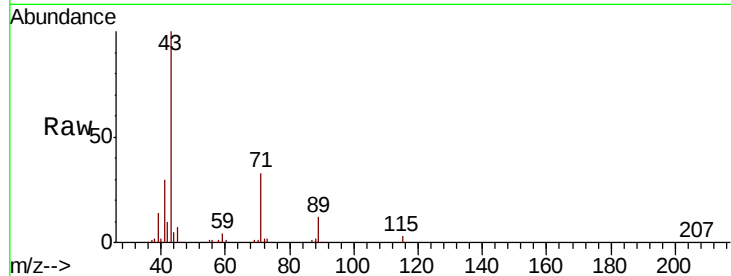
Tot Ion: 69 Resp: 2092

Ion Ratio Lower Upper

69 100

41 3660.9 61.1 91.7#

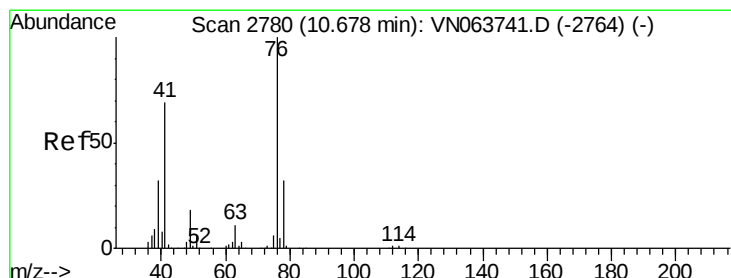
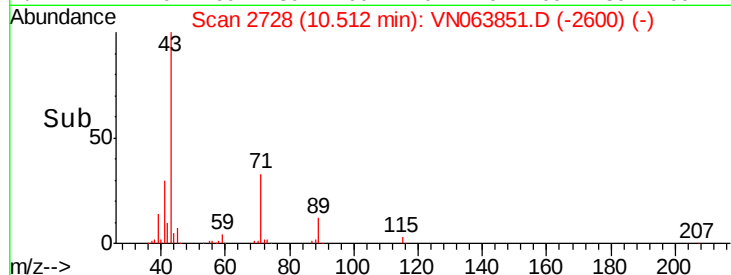
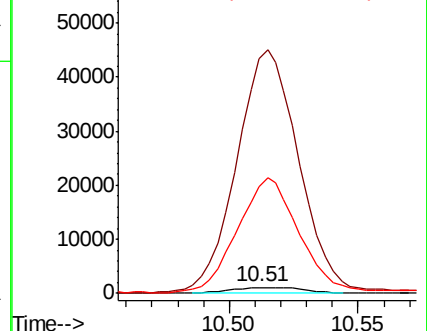
39 1719.4 42.2 63.4#



Abundance Ion 69.00 (68.70 to 69.70): VN063851.D (-2600) (-)

Ion 41.00 (40.70 to 41.70): VN063851.D (-2600) (-)

Ion 39.00 (38.70 to 39.70): VN063851.D (-2600) (-)



#57

1,3-Dichloropropane

Concen: 0.818 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063851.D

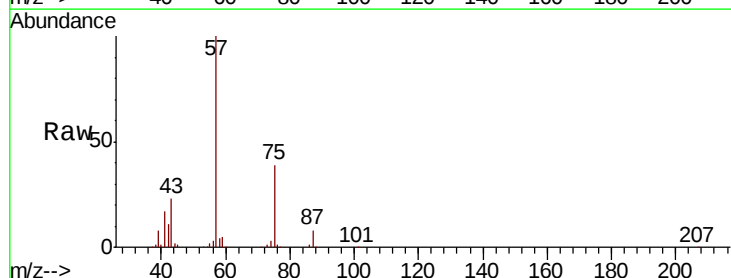
Acq: 3 Oct 2020 4:20

Tgt Ion: 76 Resp: 4026

Ion Ratio Lower Upper

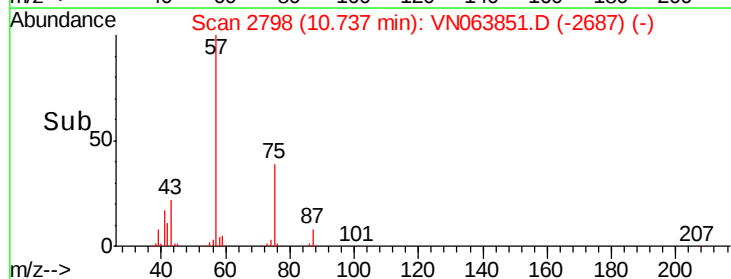
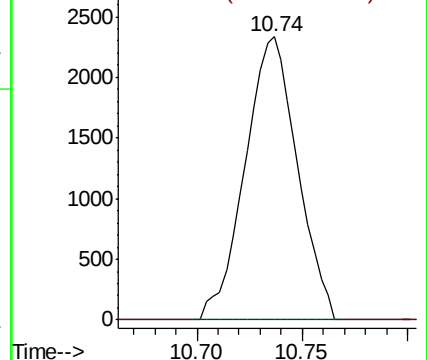
76 100

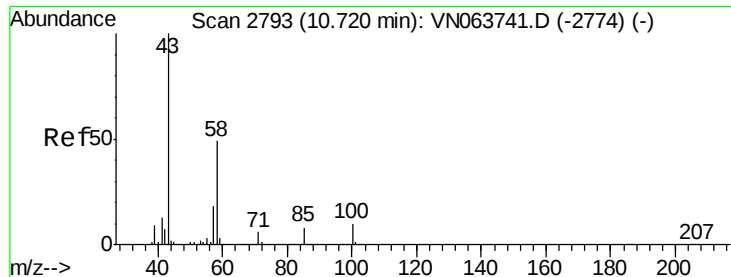
78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN063851.D (-2687) (-)

Ion 77.90 (77.60 to 78.60): VN063851.D (-2687) (-)





#59

2-Hexanone

Concen: 21.785 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063851.D

Acq: 3 Oct 2020 4:20

Instrument :

MSVOA_N

ClientSampleId :

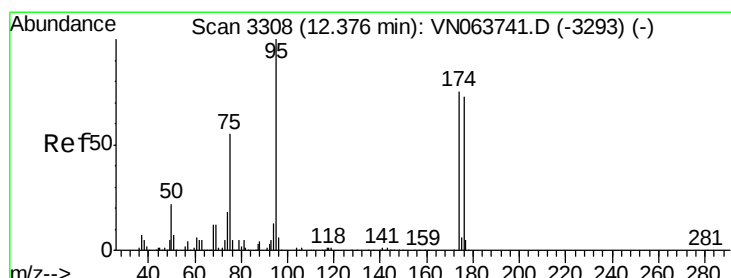
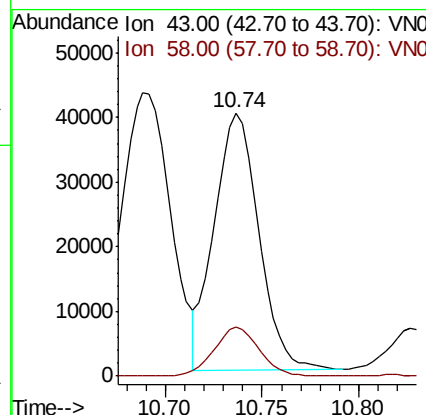
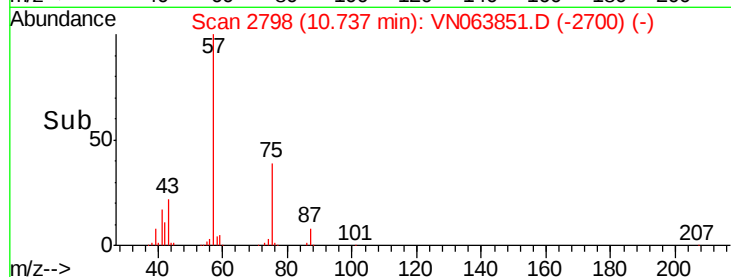
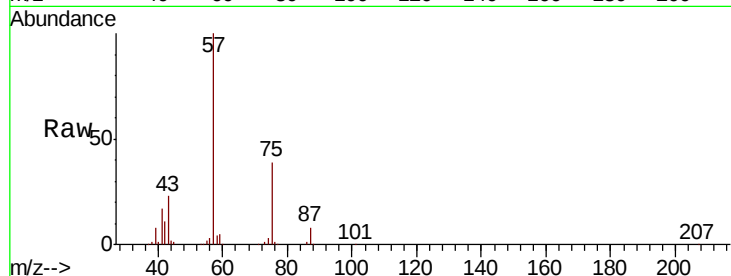
RO-5

Tot Ion: 43 Resp: 63894

Ion Ratio Lower Upper

43 100

58 19.2 24.6 73.8#



#62

4-Bromofluorobenzene

Concen: 49.855 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063851.D

Acq: 3 Oct 2020 4:20

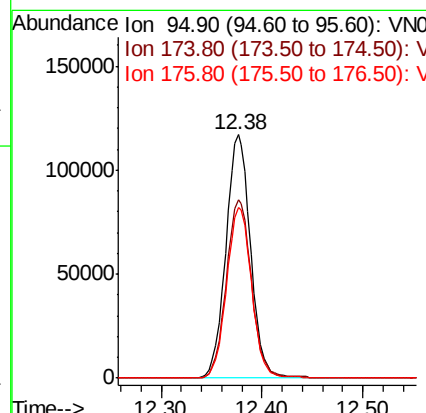
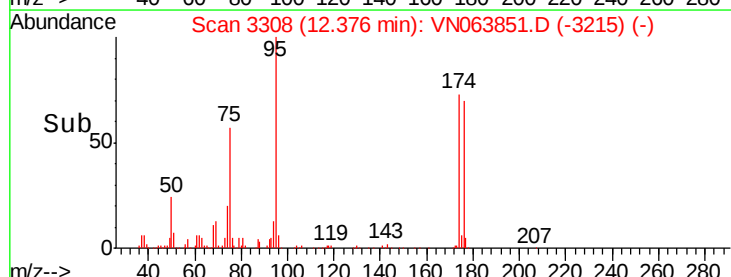
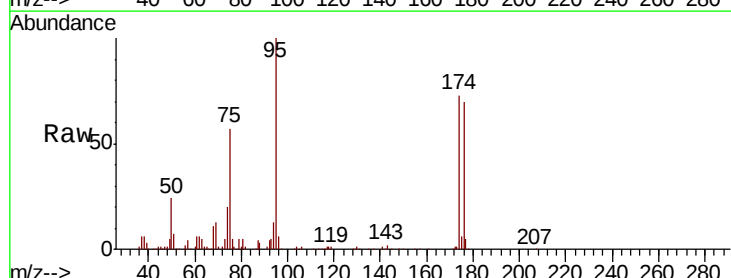
Tgt Ion: 95 Resp: 199765

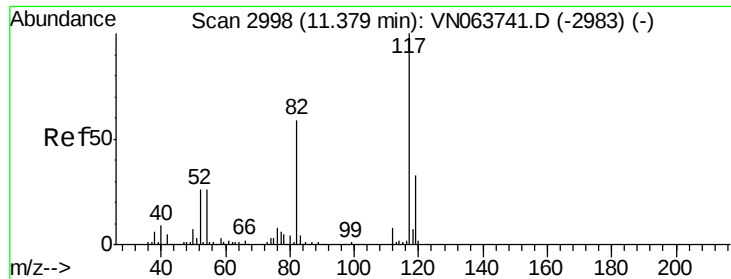
Ion Ratio Lower Upper

95 100

174 75.2 0.0 150.6

176 70.7 0.0 145.4

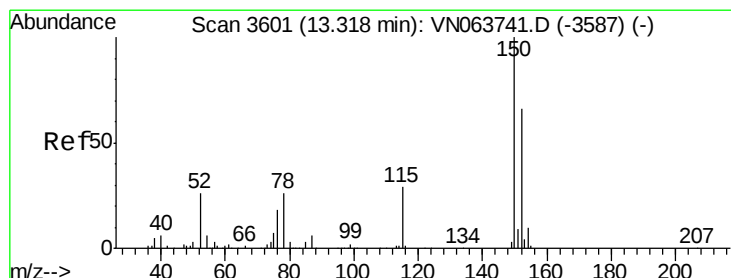
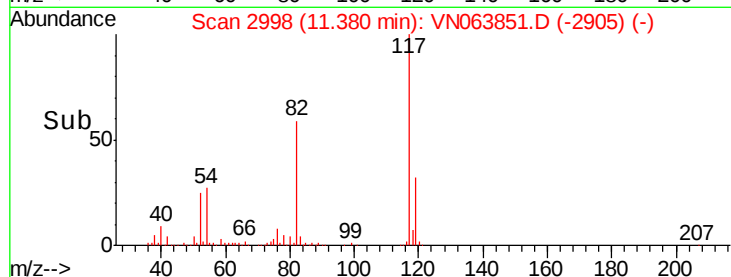
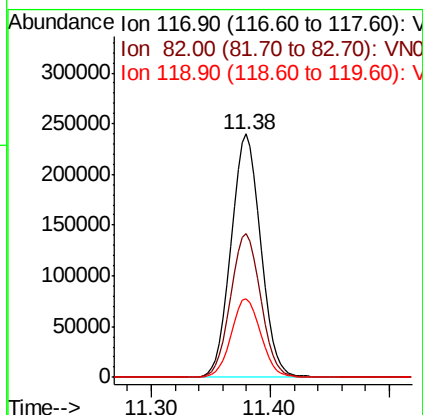
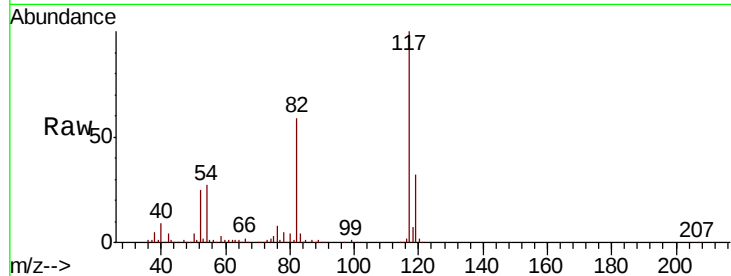




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063851.D
Acq: 3 Oct 2020 4:20

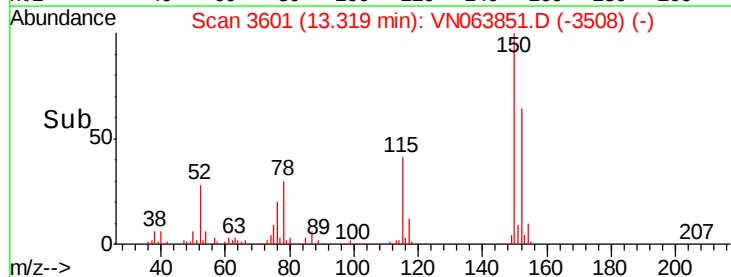
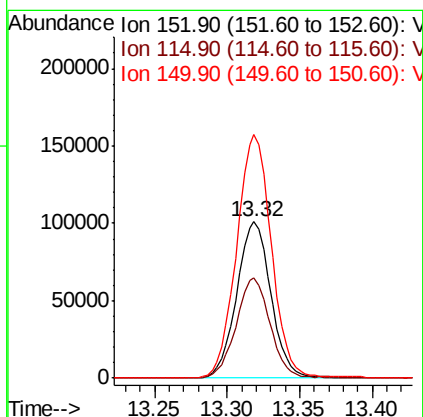
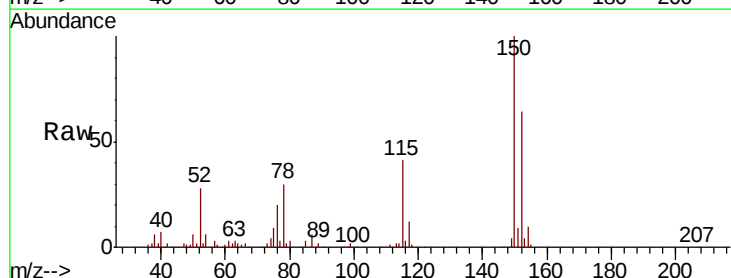
Instrument :
MSVOA_N
ClientSampled :
RO-5

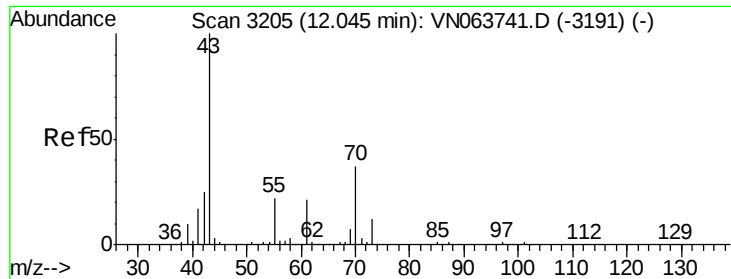
Tot Ion:117 Resp: 415412
Ion Ratio Lower Upper
117 100
82 59.0 47.4 71.2
119 32.4 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN063851.D
Acq: 3 Oct 2020 4:20

Tgt Ion:152 Resp: 165969
Ion Ratio Lower Upper
152 100
115 63.4 31.3 93.8
150 158.8 0.0 341.8





#74

N-amvl acetate

Concen: 2.656 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN063851.D

Acq: 3 Oct 2020 4:20

Instrument :

MSVOA_N

ClientSampled :

RO-5

Tot Ion: 43 Resp: 2593

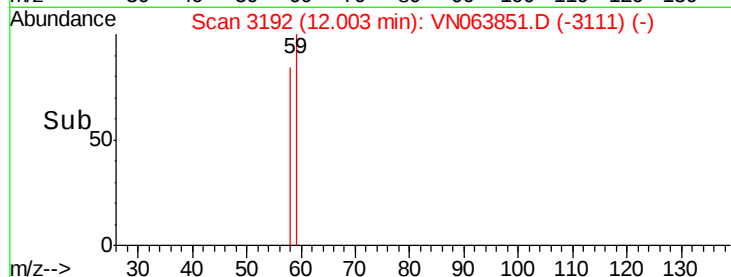
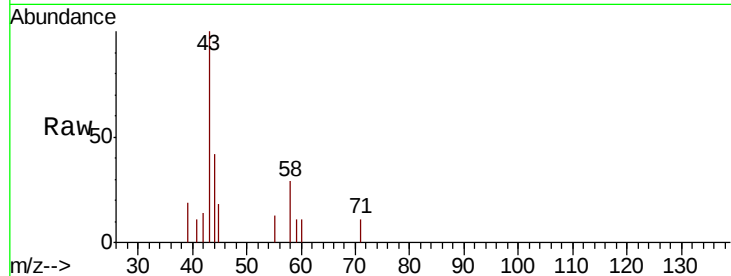
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 4.9 17.9 26.9#

61 0.0 17.0 25.4#

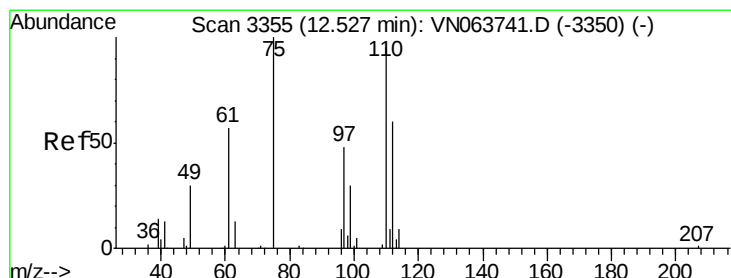
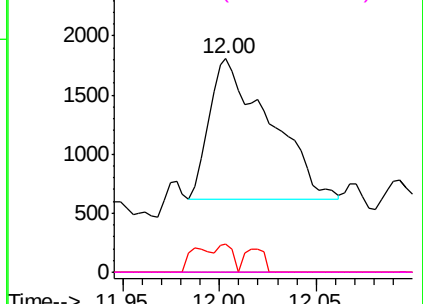


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.960 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063851.D

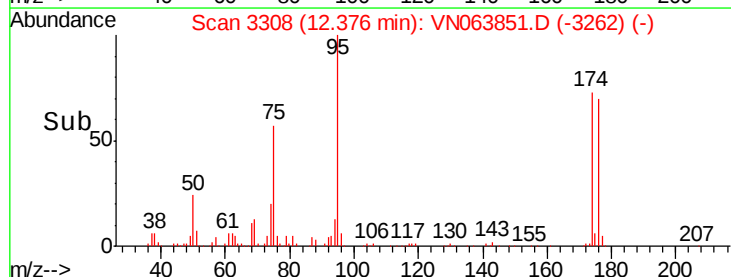
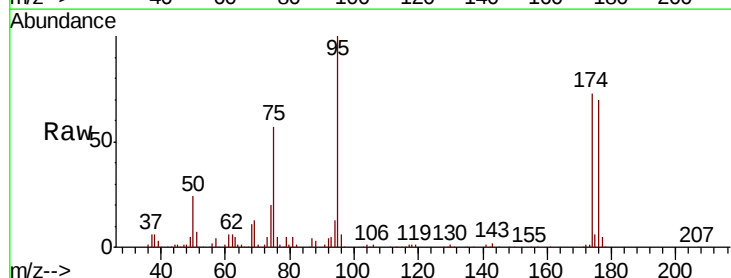
Acq: 3 Oct 2020 4:20

Tgt Ion: 75 Resp: 113271

Ion Ratio Lower Upper

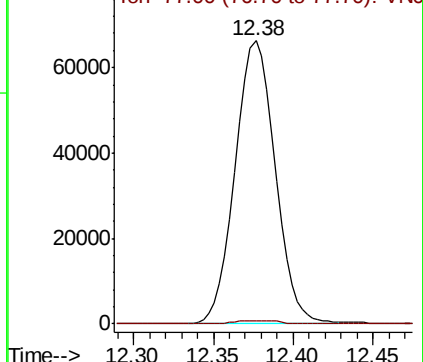
75 100

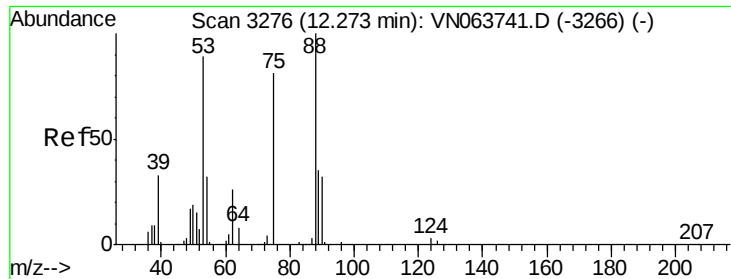
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 89.170 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063851.D

Acq: 3 Oct 2020 4:20

Instrument :

MSVOA_N

ClientSampleId :

RO-5

Tot Ion: 75 Resp: 113271

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

89 0.0 36.0 54.0#

