

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100220\
 Data File : VN063853.D
 Acq On : 3 Oct 2020 5:08
 Operator : JC/MD
 Sample : L4198-23
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-17

Quant Time: Oct 05 04:25:48 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	200953	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	393584	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	401180	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	153415	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	181337	54.62	ug/l	0.00
Spiked Amount			Recovery	=	109.24%	
35) Dibromofluoromethane	7.55	113	130063	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	
50) Toluene-d8	10.06	98	502684	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
62) 4-Bromofluorobenzene	12.38	95	190370	48.92	ug/l	0.00
Spiked Amount			Recovery	=	97.84%	

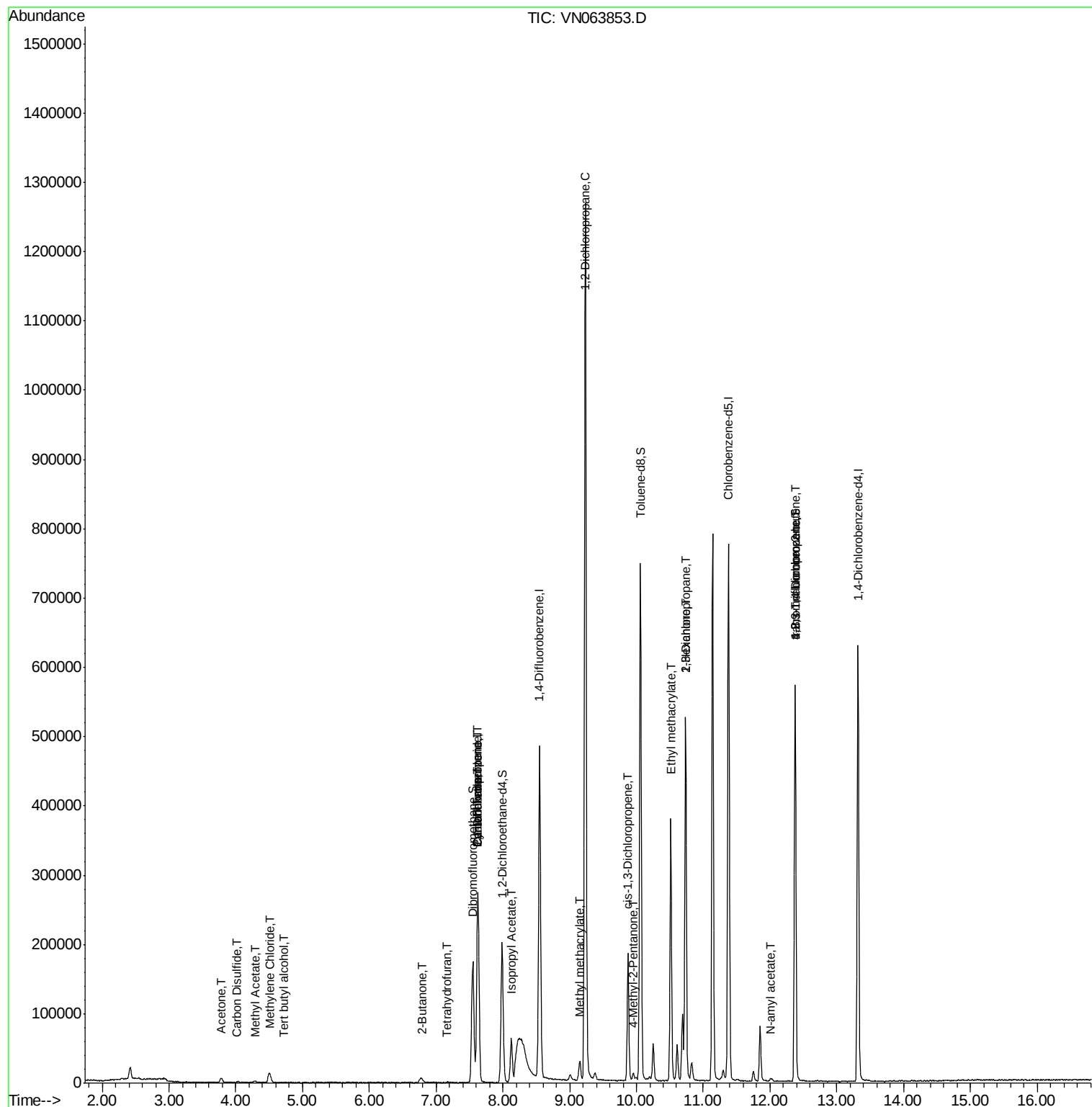
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	248	0.677	ug/l #	71
16) Acetone	3.78	43	11206	10.965	ug/l	98
17) Carbon Disulfide	4.02	76	65	0.712	ug/l #	76
18) Methyl Acetate	4.28	43	2453	0.924	ug/l	94
20) Methylene Chloride	4.51	84	8830	3.863	ug/l	95
25) 2-Butanone	6.79	43	2431	1.678	ug/l	99
29) Tetrahydrofuran	7.15	42	319	0.328	ug/l #	36
31) Cyclohexane	7.62	56	5681	1.474	ug/l #	33
36) 1,1-Dichloropropene	7.63	75	19147	4.802	ug/l #	47
38) Carbon Tetrachloride	7.63	117	22941	5.131	ug/l #	15
43) Isopropyl Acetate	8.13	43	73396	11.232	ug/l	100
45) 1,2-Dichloropropane	9.23	63	1758	0.572	ug/l #	44
48) Methyl methacrylate	9.15	41	4599	1.425	ug/l #	12
51) 4-Methyl-2-Pentanone	9.96	43	6488	1.692	ug/l	88
54) cis-1,3-Dichloropropene	9.87	75	29178	5.952	ug/l #	67
56) Ethyl methacrylate	10.51	69	2127	0.531	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5004	1.047	ug/l #	43
59) 2-Hexanone	10.74	43	81612	28.650	ug/l #	54
74) N-amyl acetate	12.01	43	4040	2.958	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	107391	31.755	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	107391	91.459	ug/l #	6

(#) = 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: VN063853.D

Acq: 3 Oct 2020 5:08

Instrument :

MSVOA_N

ClientSampleId :

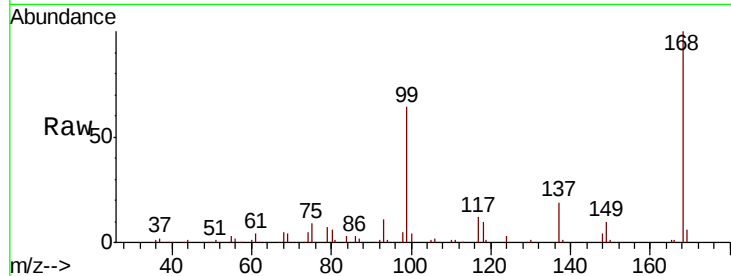
RO-17

Tot Ion:168 Resp: 200953

Ion Ratio Lower Upper

168 100

99 64.2 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

80000

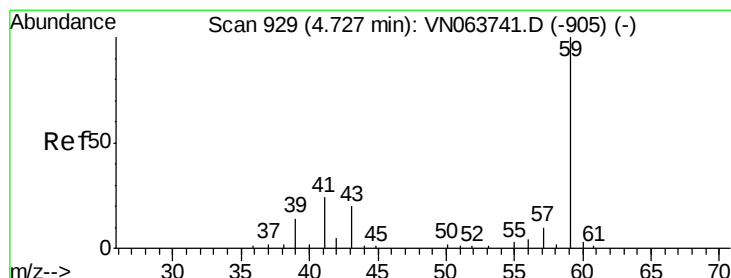
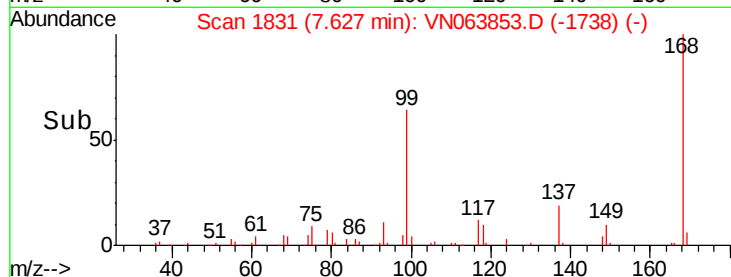
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.677 ug/l

RT: 4.72 min Scan# 928

Delta R.T. -0.00 min

Lab File: VN063853.D

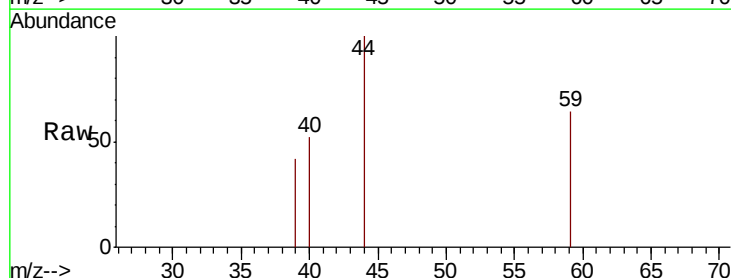
Acq: 3 Oct 2020 5:08

Tgt Ion: 59 Resp: 248

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

4.72

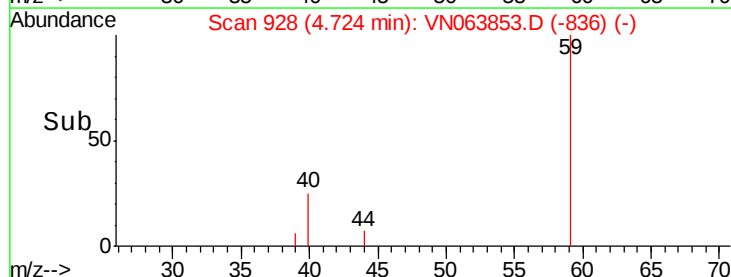
300

200

100

0

Time--> 4.70 4.71 4.72 4.73 4.74





#16

Acetone

Concen: 10.965 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063853.D

Acq: 3 Oct 2020 5:08

Instrument :

MSVOA_N

ClientSampleId :

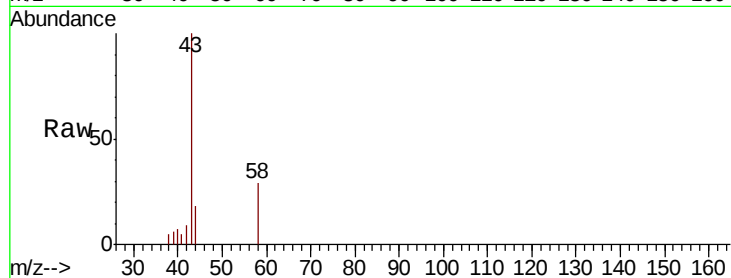
RO-17

Tot Ion: 43 Resp: 11206

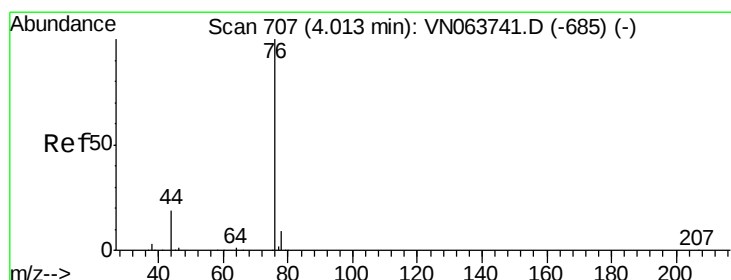
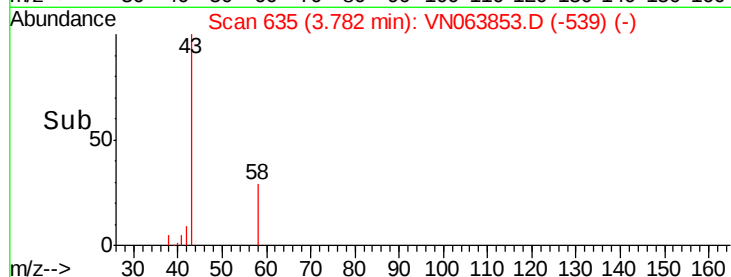
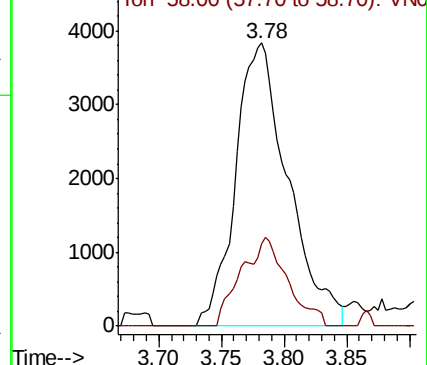
Ion Ratio Lower Upper

43 100

58 28.9 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-599) (-)



#17

Carbon Disulfide

Concen: 0.712 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN063853.D

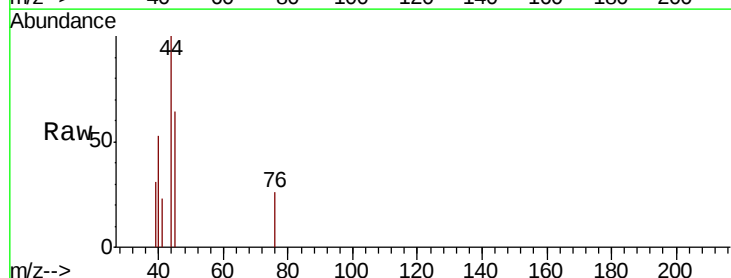
Acq: 3 Oct 2020 5:08

Tgt Ion: 76 Resp: 65

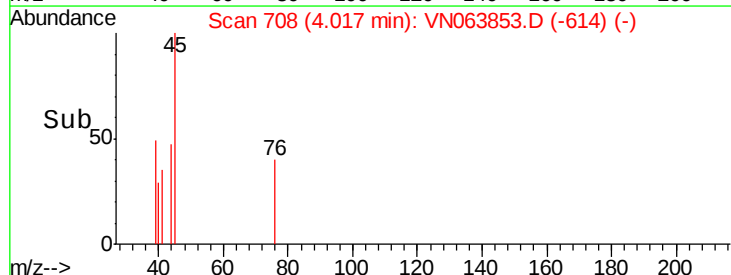
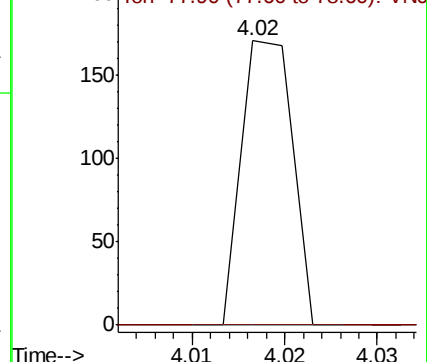
Ion Ratio Lower Upper

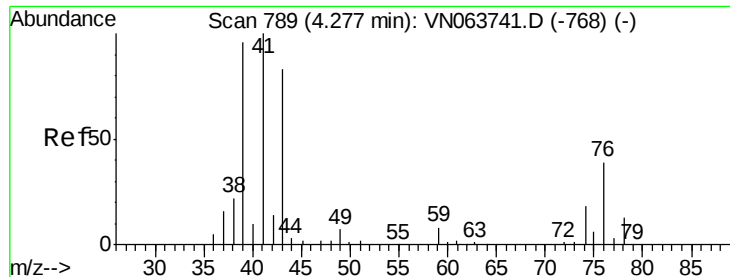
76 100

78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN063741.D (-685) (-)

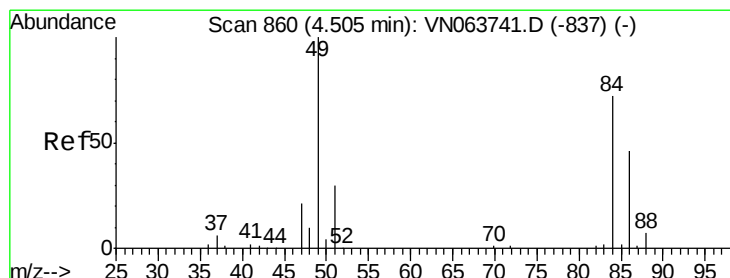
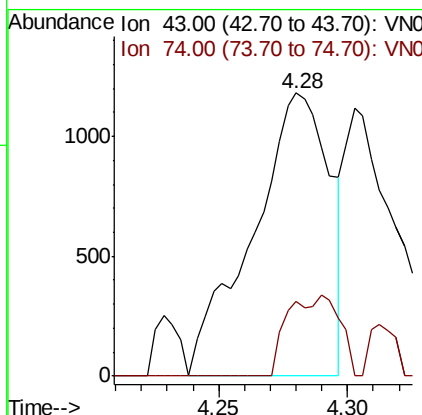
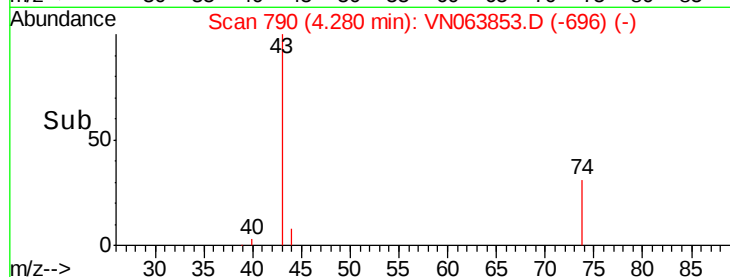
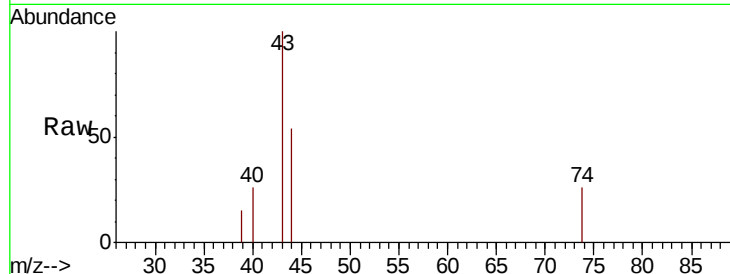




#18
Methyl Acetate
Concen: 0.924 ug/l
RT: 4.28 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN063853.D
Acq: 3 Oct 2020 5:08

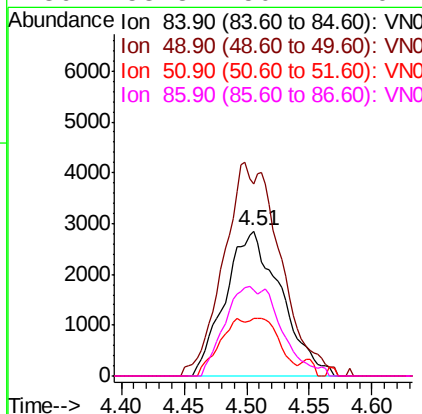
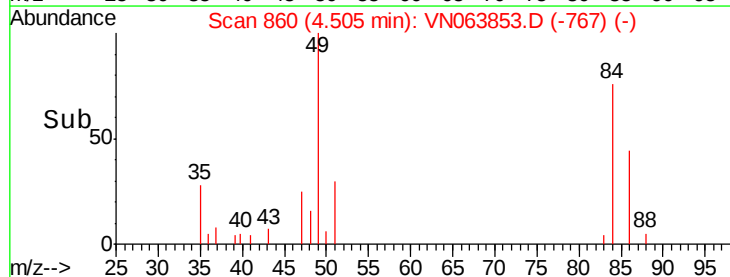
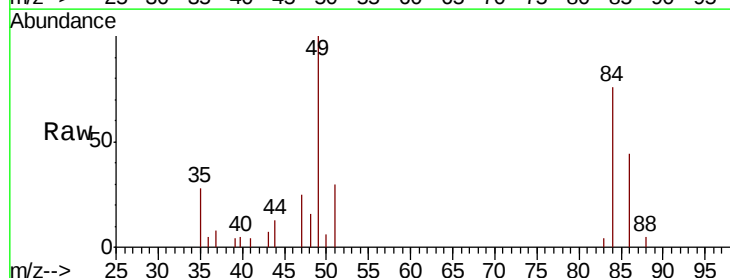
Instrument :
MSVOA_N
ClientSampled :
RO-17

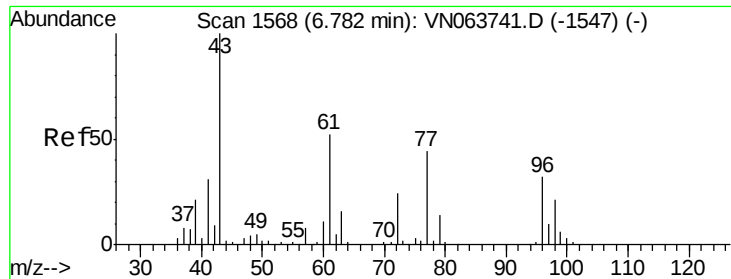
Tot Ion: 43 Resp: 2453
Ion Ratio Lower Upper
43 100
74 19.1 17.4 26.2



#20
Methylene Chloride
Concen: 3.863 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063853.D
Acq: 3 Oct 2020 5:08

Tgt Ion: 84 Resp: 8830
Ion Ratio Lower Upper
84 100
49 132.2 110.4 165.6
51 39.9 33.3 49.9
86 58.8 50.7 76.1

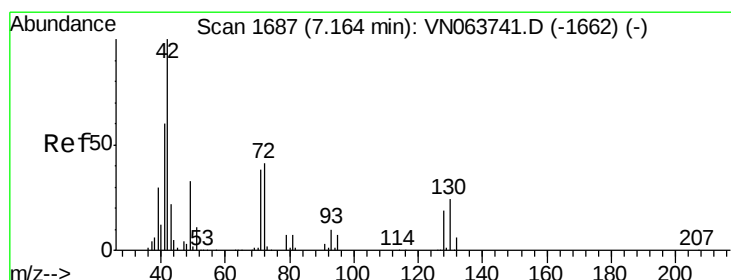
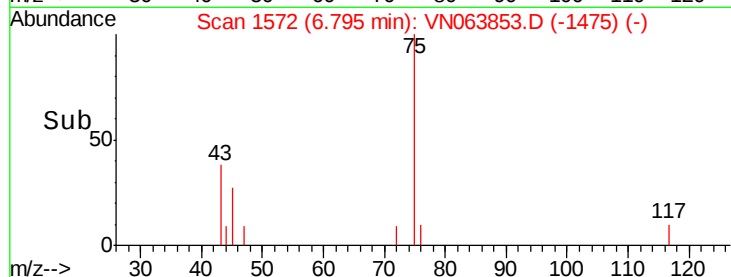
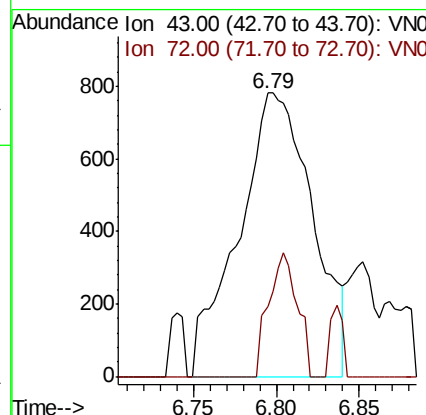
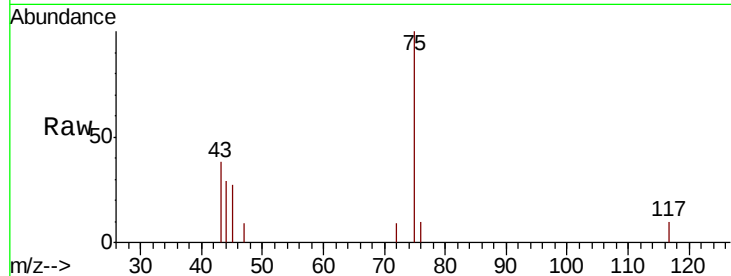




#25
2-Butanone
Concen: 1.678 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN063853.D
Acq: 3 Oct 2020 5:08

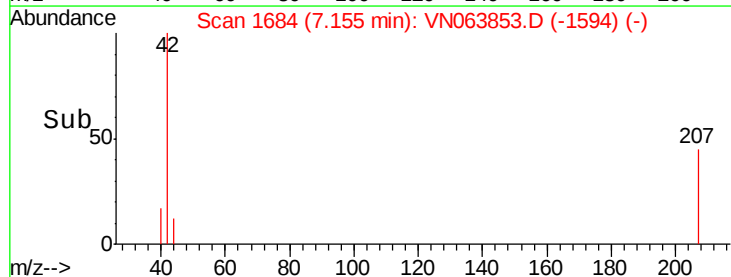
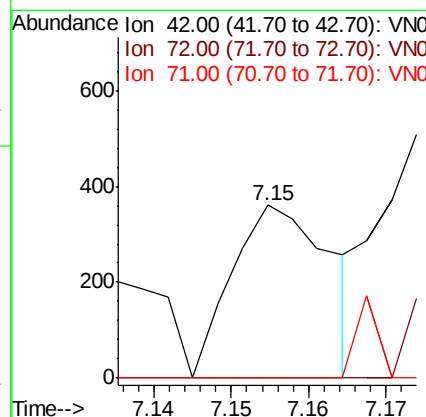
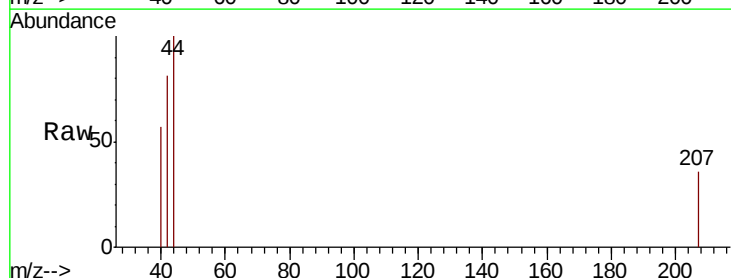
Instrument :
MSVOA_N
ClientSampled :
RO-17

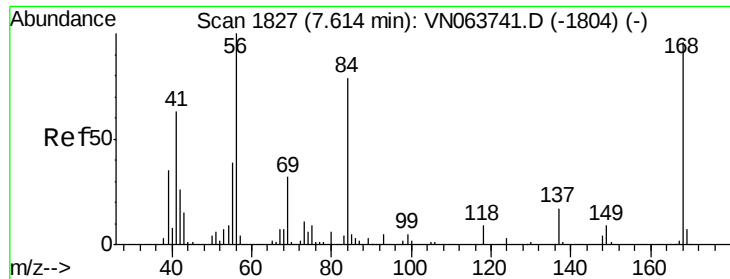
Tot Ion: 43 Resp: 2431
Ion Ratio Lower Upper
43 100
72 24.8 19.3 28.9



#29
Tetrahydrofuran
Concen: 0.328 ug/l
RT: 7.15 min Scan# 1684
Delta R.T. -0.01 min
Lab File: VN063853.D
Acq: 3 Oct 2020 5:08

Tgt Ion: 42 Resp: 319
Ion Ratio Lower Upper
42 100
72 0.0 32.8 49.2#
71 0.0 30.6 45.8#

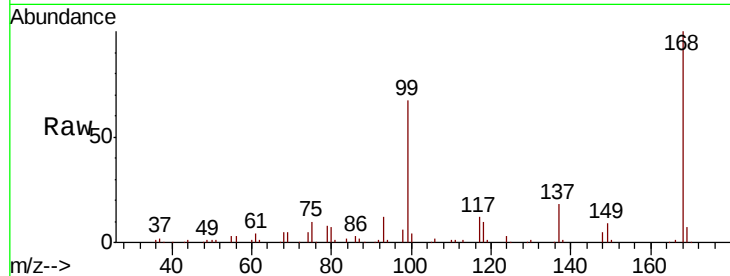




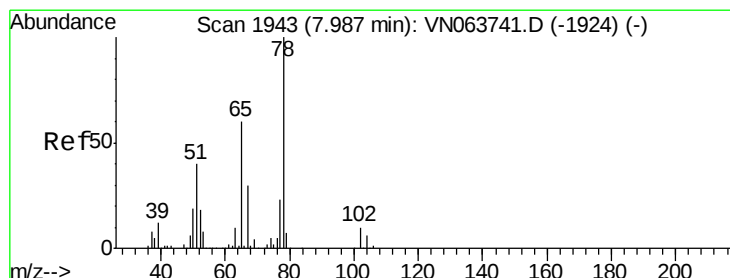
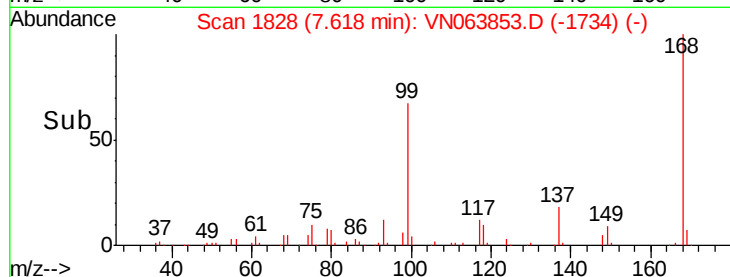
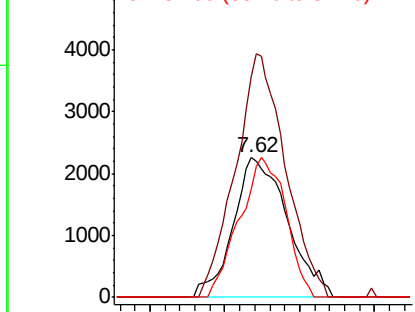
#31
Cyclohexane
Concen: 1.474 ug/l
RT: 7.62 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN063853.D
Acq: 3 Oct 2020 5:08

Instrument :
MSVOA_N
ClientSampled :
RO-17

Tot Ion: 56 Resp: 5681
Ion Ratio Lower Upper
56 100
69 158.4 25.4 38.2#
84 77.3 63.3 94.9

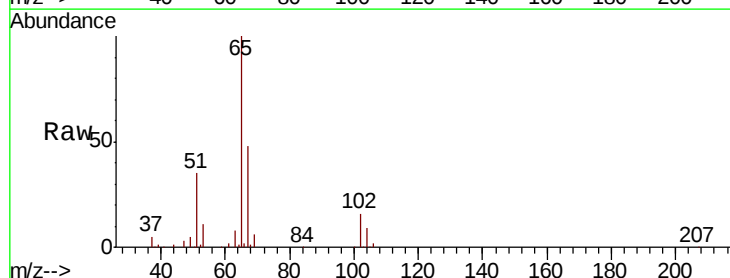


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

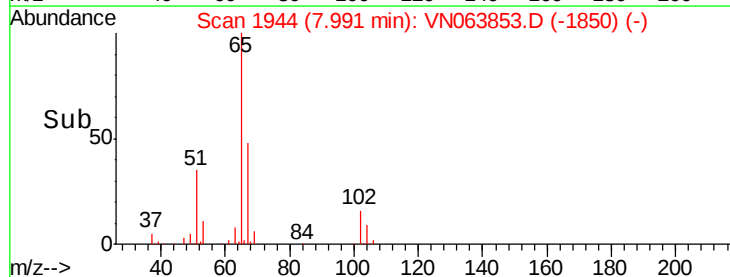
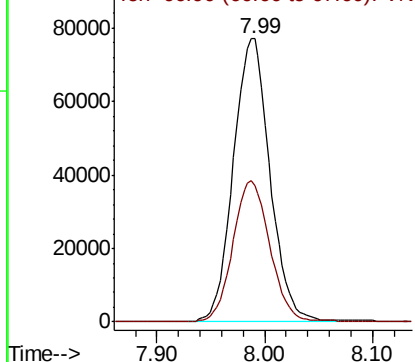


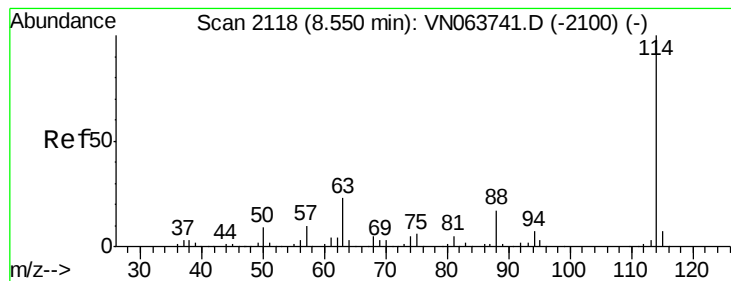
#33
1,2-Dichloroethane-d4
Concen: 54.622 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN063853.D
Acq: 3 Oct 2020 5:08

Tgt Ion: 65 Resp: 181337
Ion Ratio Lower Upper
65 100
67 50.3 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: VN063853.D

Acq: 3 Oct 2020 5:08

Instrument :

MSVOA_N

ClientSampleId :

RO-17

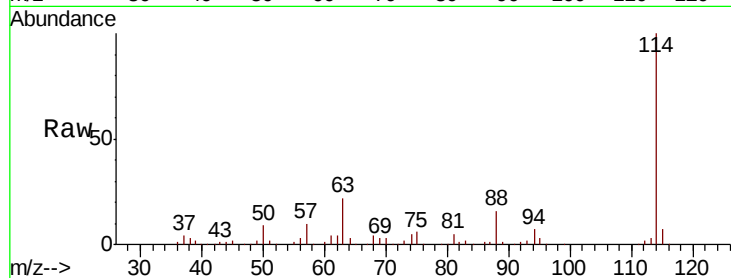
Tot Ion:114 Resp: 393584

Ion Ratio Lower Upper

114 100

63 21.8 0.0 45.0

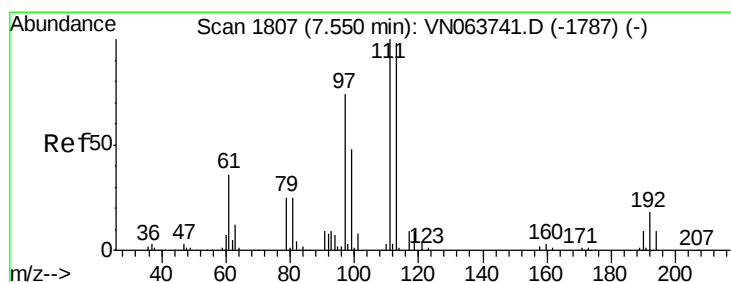
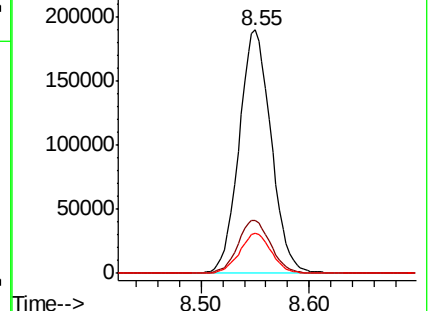
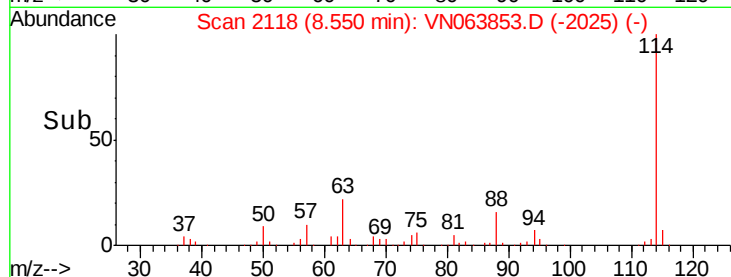
88 16.3 0.0 34.0



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: 47.625 ug/l

RT: 7.55 min Scan# 1806

Delta R.T. -0.00 min

Lab File: VN063853.D

Acq: 3 Oct 2020 5:08

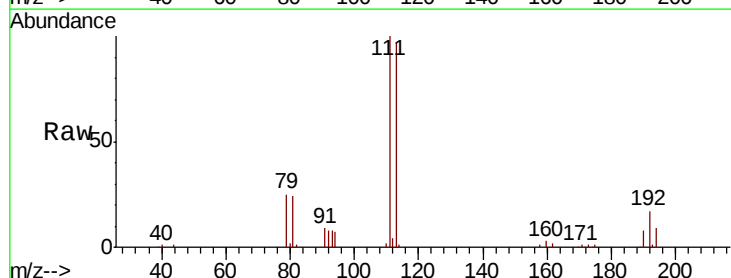
Tgt Ion:113 Resp: 130063

Ion Ratio Lower Upper

113 100

111 102.2 81.8 122.8

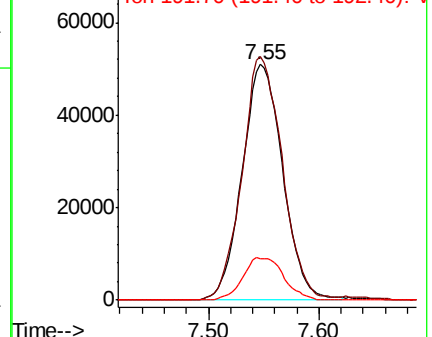
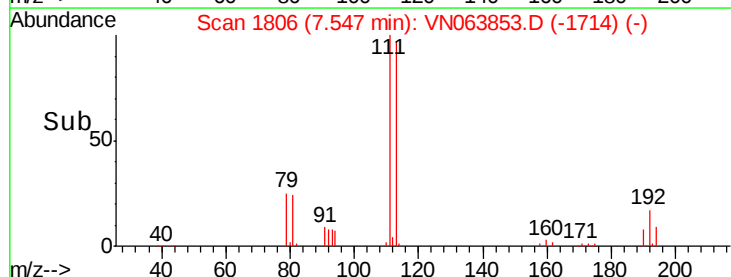
192 18.0 14.2 21.2

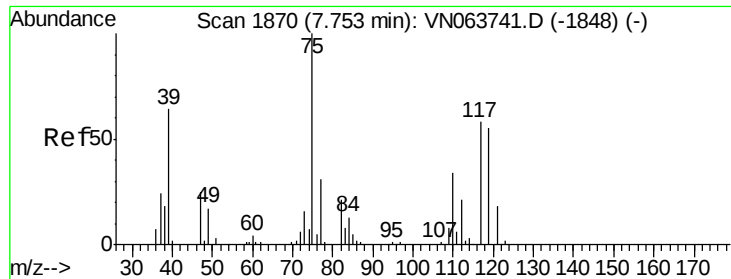


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

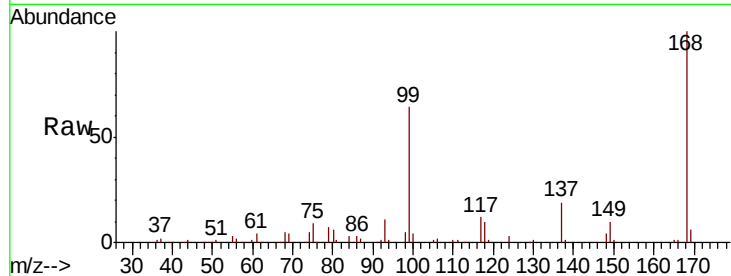




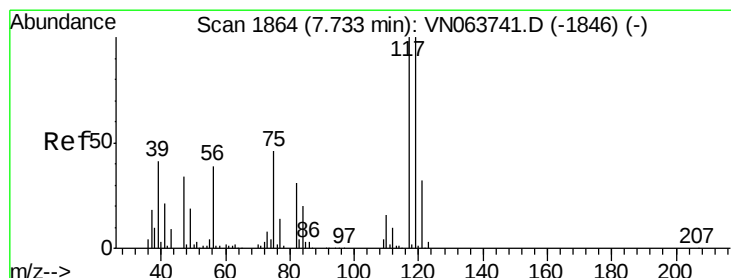
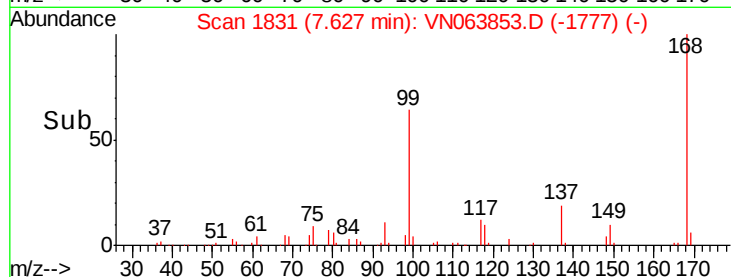
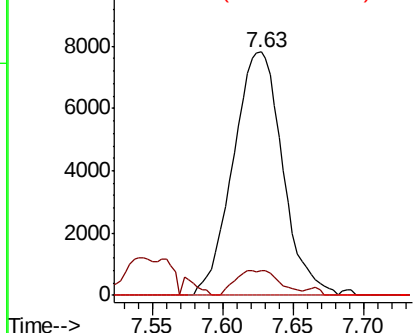
#36
 1,1-Dichloropropene
 Concen: 4.802 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063853.D
 Acq: 3 Oct 2020 5:08

Instrument :
 MSVOA_N
 ClientSampled :
 RO-17

Tot Ion: 75 Resp: 19147
 Ion Ratio Lower Upper
 75 100
 110 4.7 16.9 50.6#
 77 0.0 24.5 36.7#

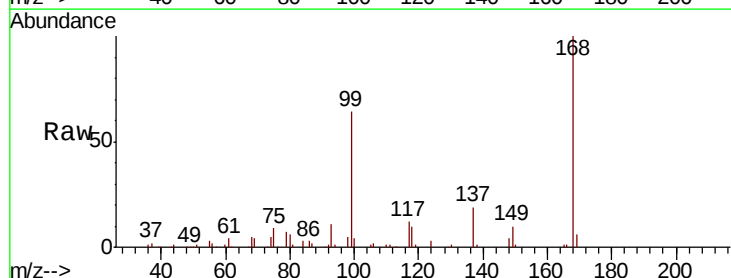


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

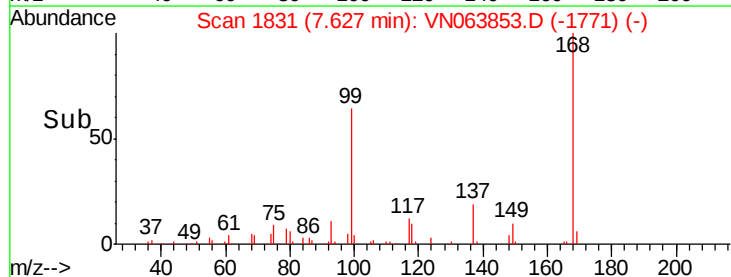
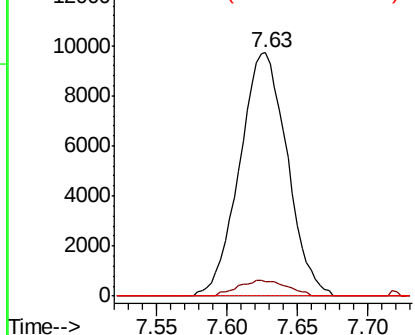


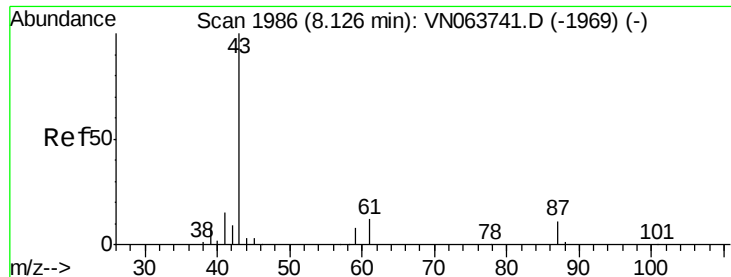
#38
 Carbon Tetrachloride
 Concen: 5.131 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063853.D
 Acq: 3 Oct 2020 5:08

Tgt Ion: 117 Resp: 22941
 Ion Ratio Lower Upper
 117 100
 119 5.8 80.1 120.1#
 121 0.0 25.7 38.5#



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: 11.232 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063853.D

Acq: 3 Oct 2020 5:08

Instrument :

MSVOA_N

ClientSampleId :

RO-17

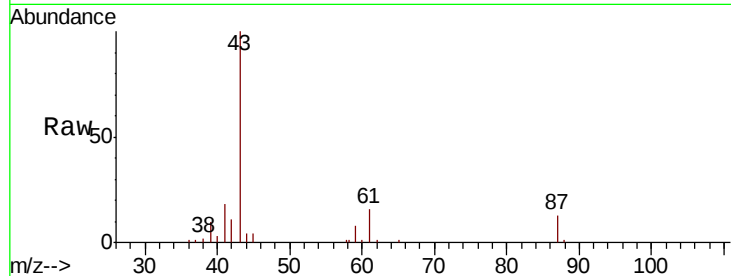
Tot Ion: 43 Resp: 73396

Ion Ratio Lower Upper

43 100

61 17.7 14.2 21.4

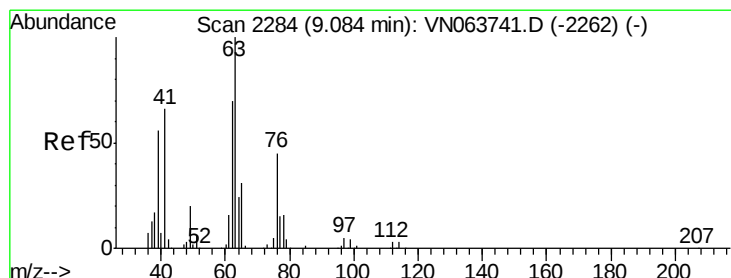
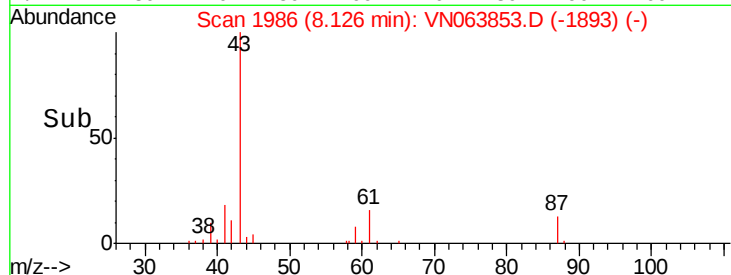
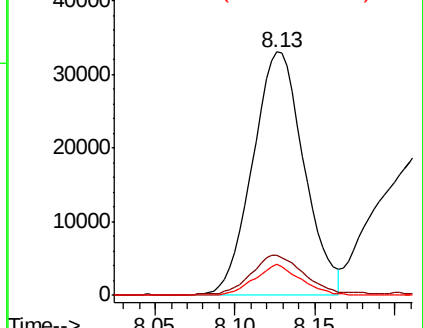
87 11.3 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063853.D (-1893) (-)

Ion 61.00 (60.70 to 61.70): VN063853.D (-1893) (-)

Ion 87.00 (86.70 to 87.70): VN063853.D (-1893) (-)



#45

1,2-Dichloropropane

Concen: 0.572 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN063853.D

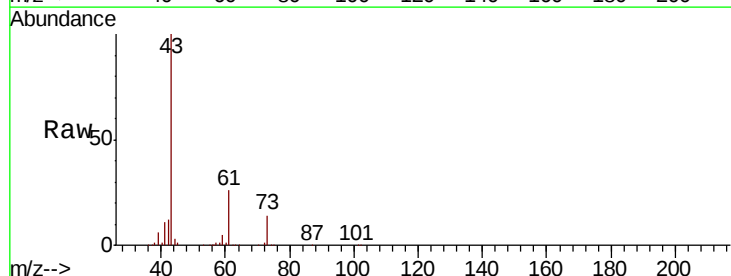
Acq: 3 Oct 2020 5:08

Tgt Ion: 63 Resp: 1758

Ion Ratio Lower Upper

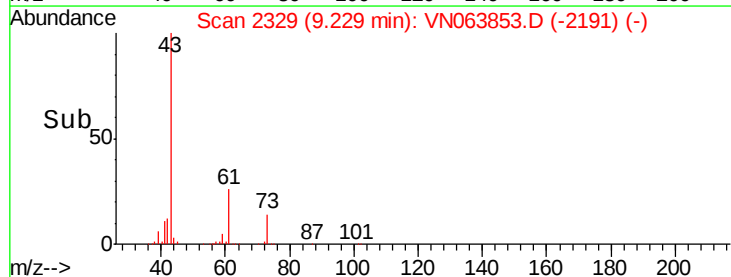
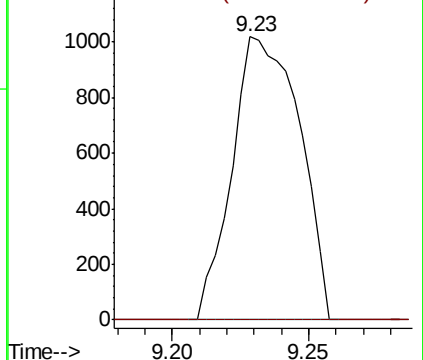
63 100

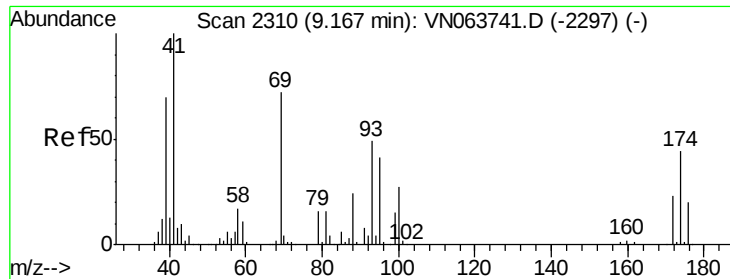
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN063853.D (-2191) (-)

Ion 64.90 (64.60 to 65.60): VN063853.D (-2191) (-)

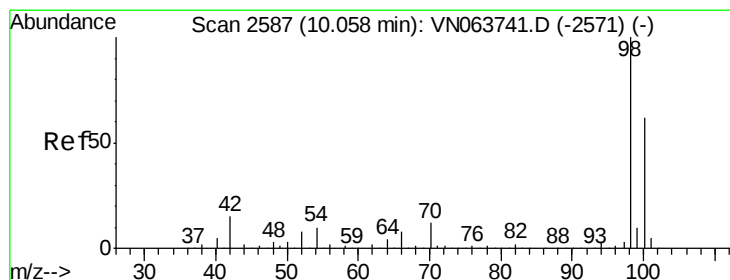
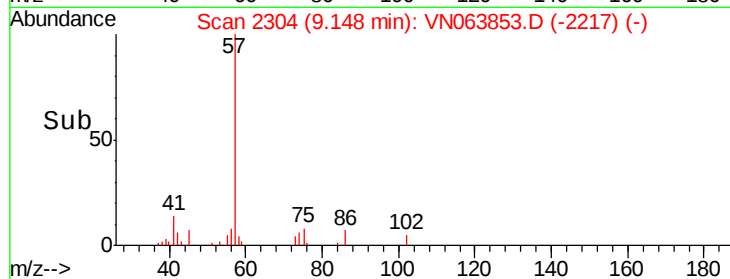
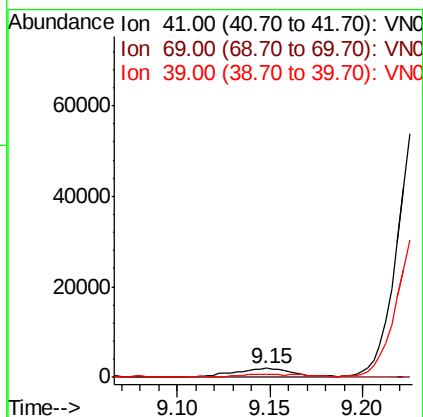
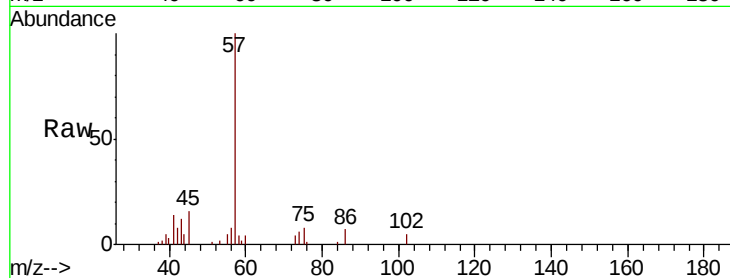




#48
Methvl methacrylate
Concen: 1.425 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN063853.D
Acq: 3 Oct 2020 5:08

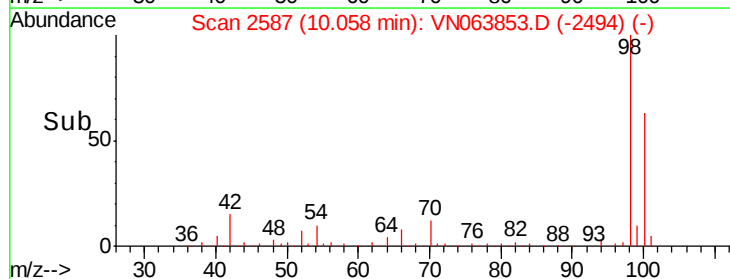
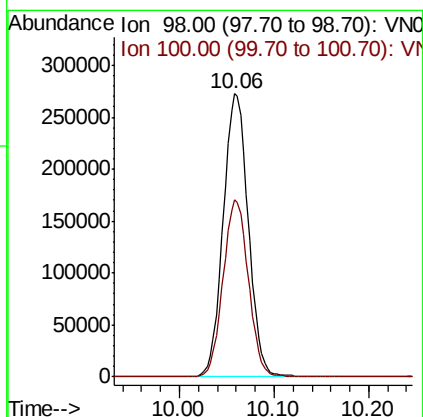
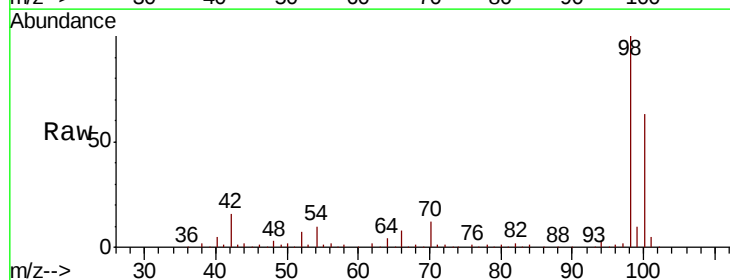
Instrument :
MSVOA_N
ClientSampleId :
RO-17

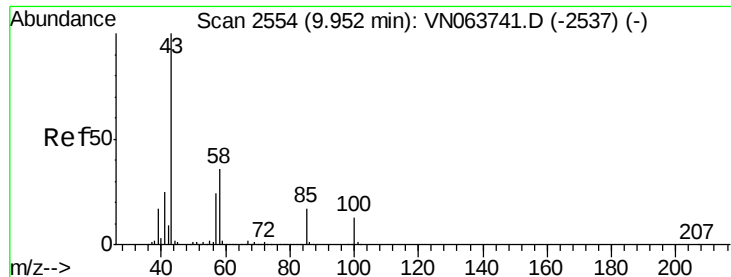
Tot Ion: 41 Resp: 4599
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 0.0 57.5 86.3#



#50
Toluene-d8
Concen: 48.555 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN063853.D
Acq: 3 Oct 2020 5:08

Tgt Ion: 98 Resp: 502684
Ion Ratio Lower Upper
98 100
100 62.9 49.8 74.6

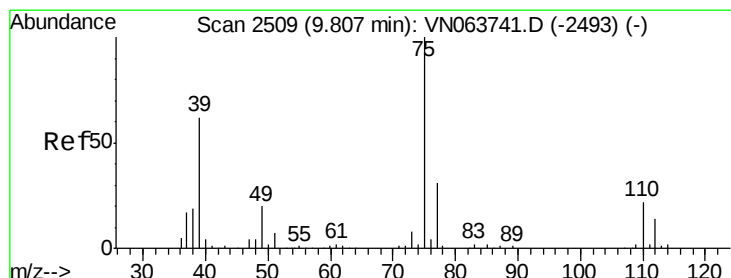
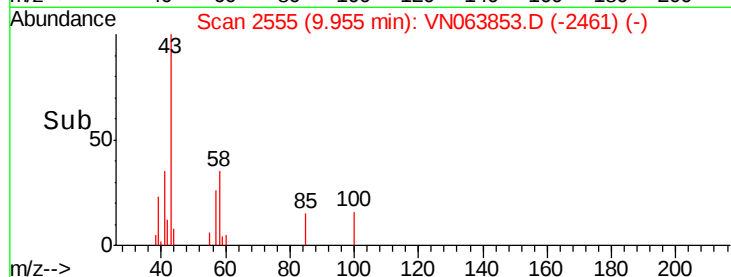
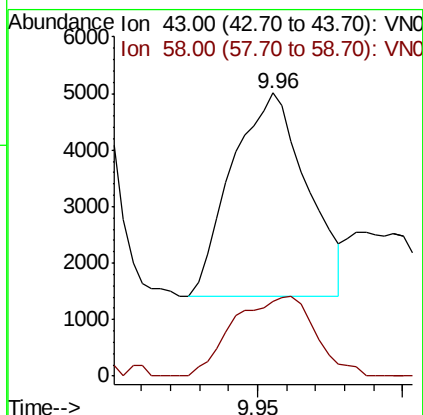
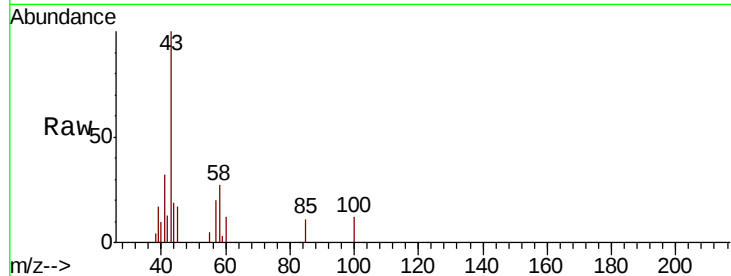




#51
4-Methyl-2-Pentanone
Concen: 1.692 ug/l
RT: 9.96 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN063853.D
Acq: 3 Oct 2020 5:08

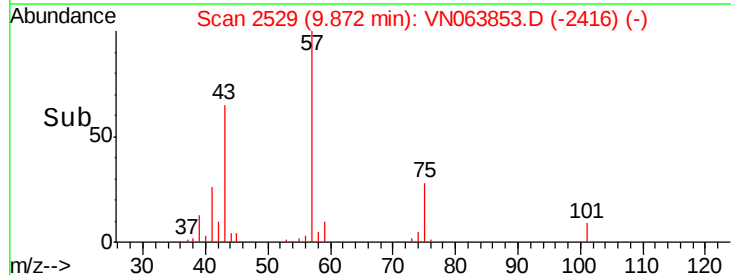
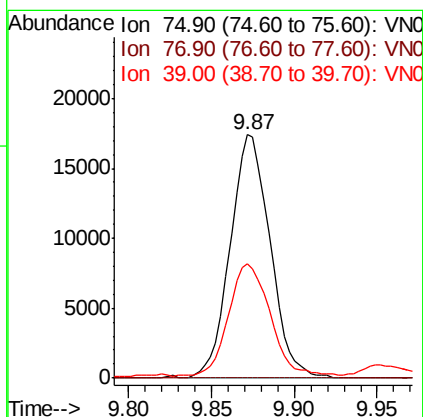
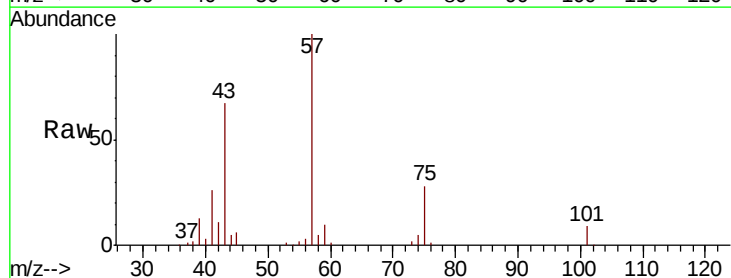
Instrument :
MSVOA_N
ClientSampled :
RO-17

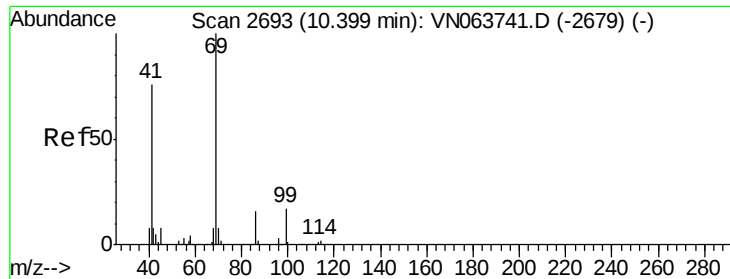
Tot Ion: 43 Resp: 6488
Ion Ratio Lower Upper
43 100
58 42.4 28.4 42.6



#54
cis-1,3-Dichloropropene
Concen: 5.952 ug/l
RT: 9.87 min Scan# 2529
Delta R.T. 0.06 min
Lab File: VN063853.D
Acq: 3 Oct 2020 5:08

Tgt Ion: 75 Resp: 29178
Ion Ratio Lower Upper
75 100
77 0.0 24.6 36.8#
39 45.7 49.7 74.5#





#56

Ethyl methacrylate

Concen: 0.531 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063853.D

Acq: 3 Oct 2020 5:08

Instrument :

MSVOA_N

ClientSampled :

RO-17

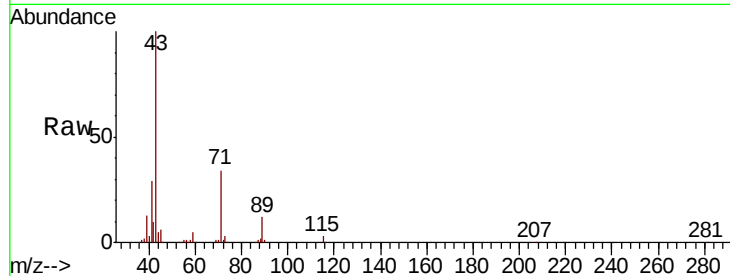
Tot Ion: 69 Resp: 2127

Ion Ratio Lower Upper

69 100

41 3827.4 61.1 91.7#

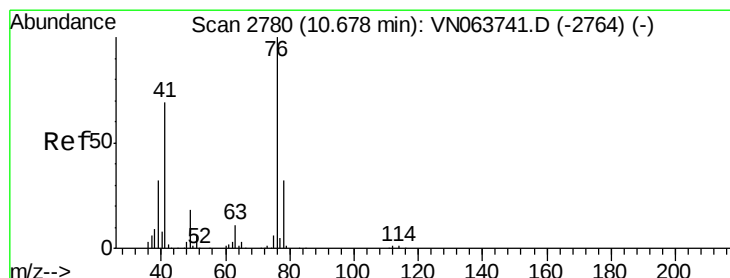
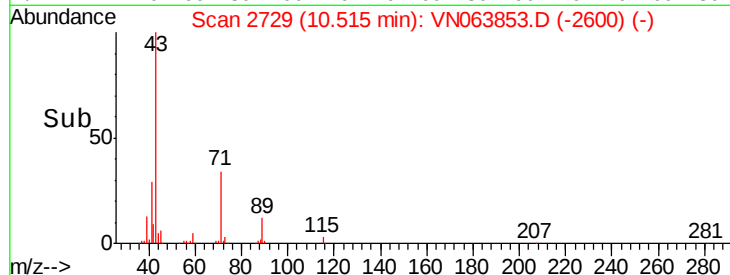
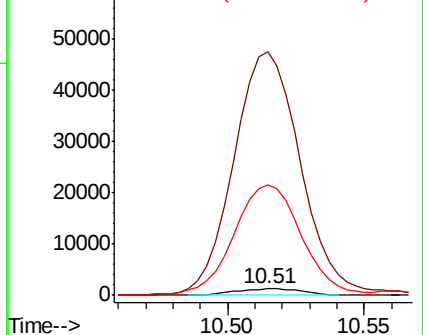
39 1716.7 42.2 63.4#



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: 1.047 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063853.D

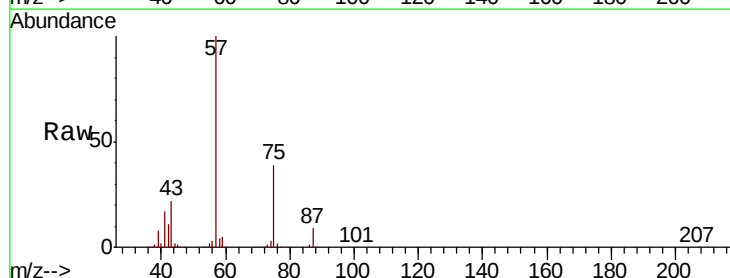
Acq: 3 Oct 2020 5:08

Tgt Ion: 76 Resp: 5004

Ion Ratio Lower Upper

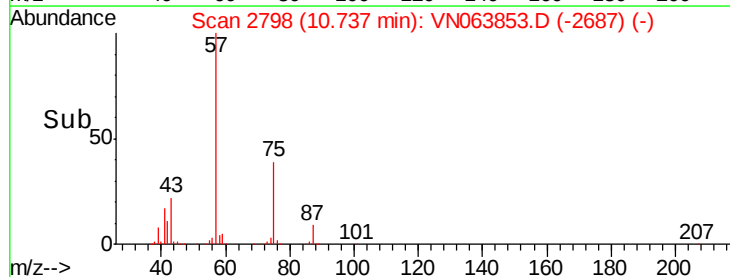
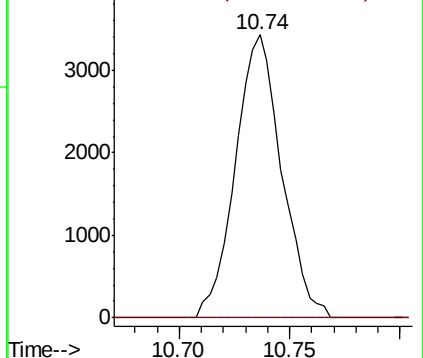
76 100

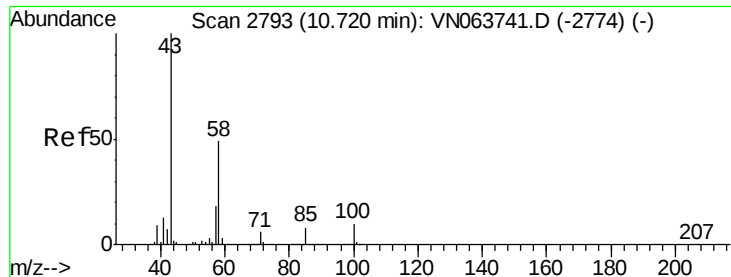
78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

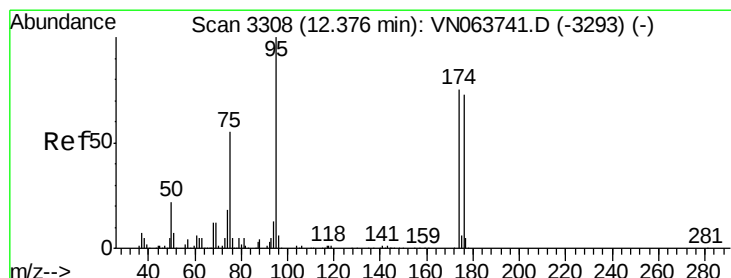
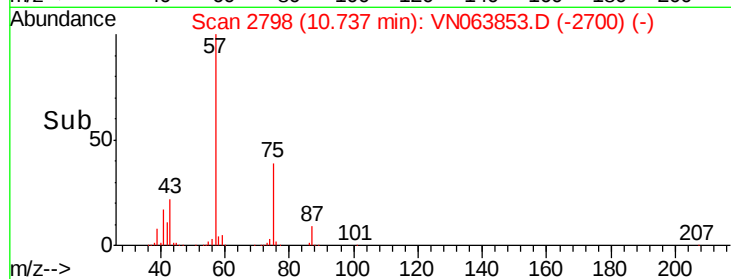
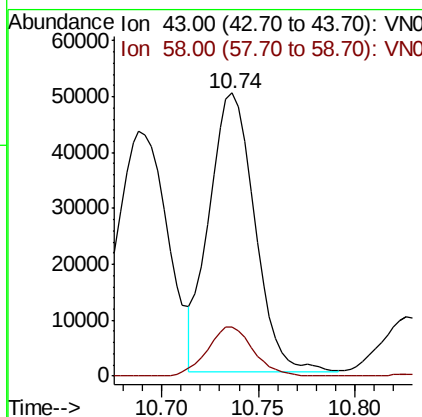
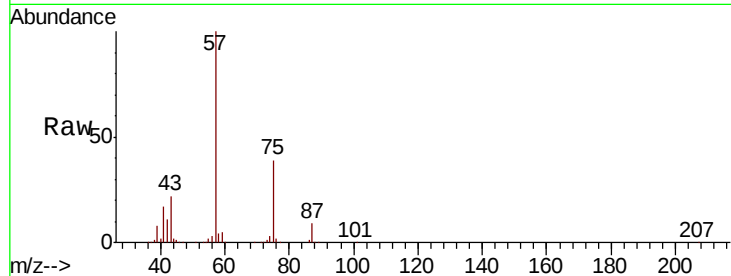




#59
2-Hexanone
Concen: 28.650 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063853.D
Acq: 3 Oct 2020 5:08

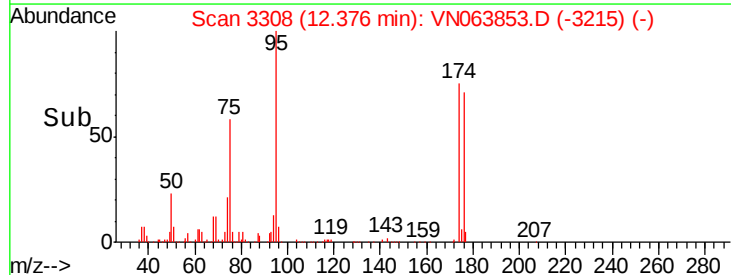
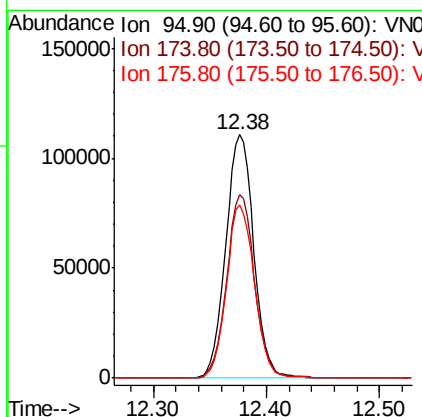
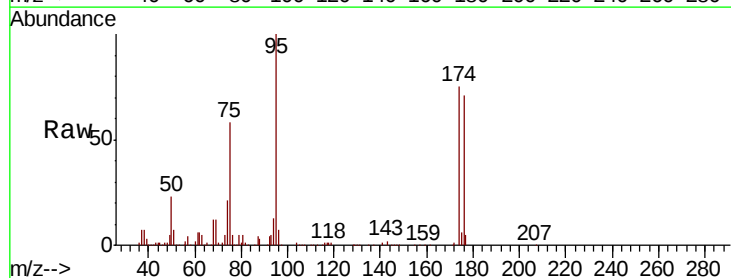
Instrument :
MSVOA_N
ClientSampled :
RO-17

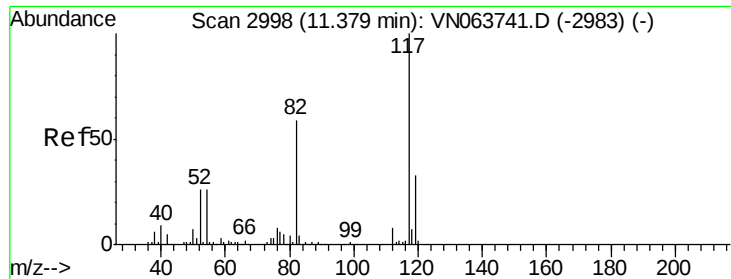
Tot Ion: 43 Resp: 81612
Ion Ratio Lower Upper
43 100
58 17.9 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 48.916 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063853.D
Acq: 3 Oct 2020 5:08

Tgt Ion: 95 Resp: 190370
Ion Ratio Lower Upper
95 100
174 74.8 0.0 150.6
176 70.9 0.0 145.4

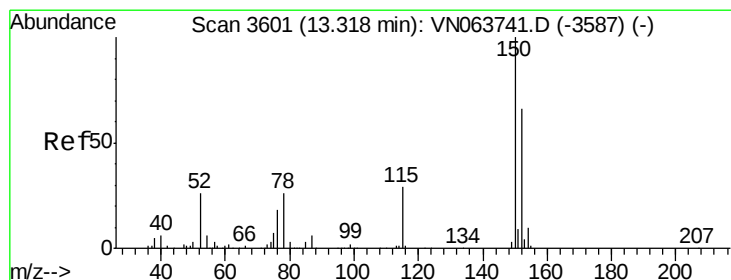
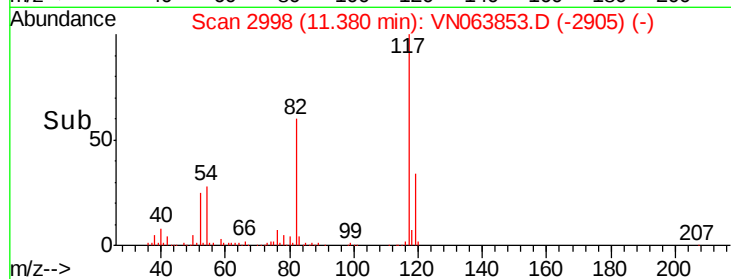
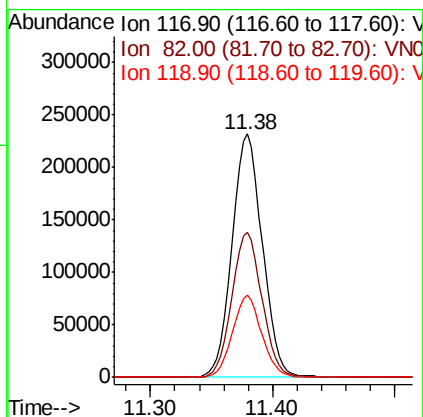
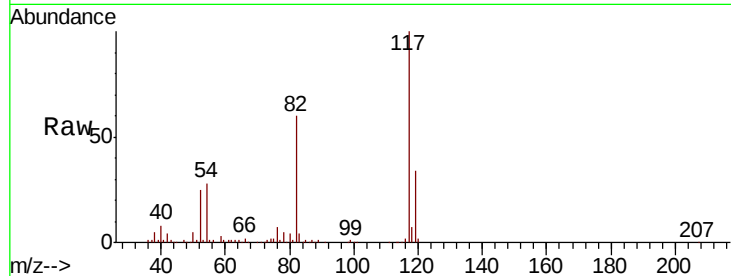




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063853.D
Acq: 3 Oct 2020 5:08

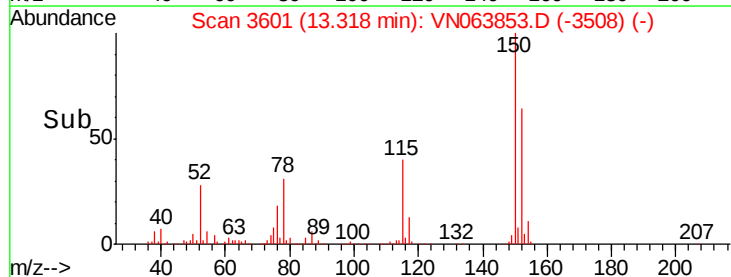
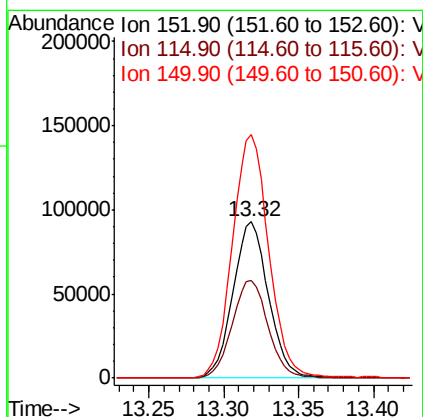
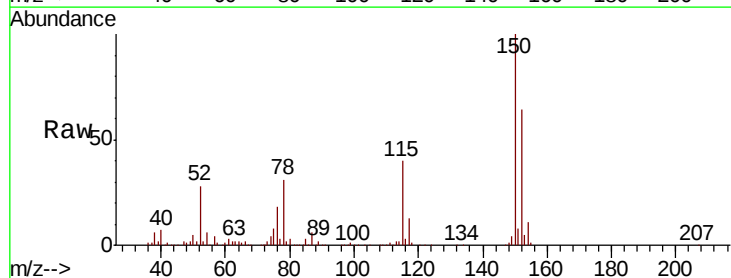
Instrument :
MSVOA_N
ClientSampleId :
RO-17

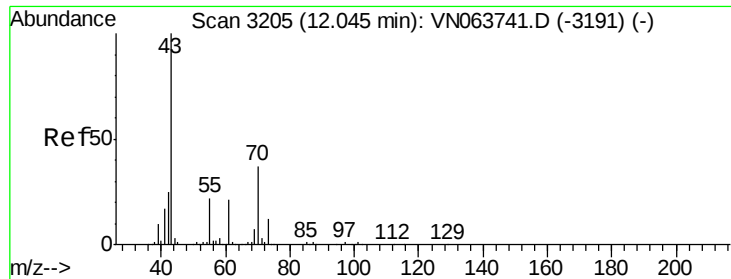
Tot Ion:117 Resp: 401180
Ion Ratio Lower Upper
117 100
82 59.6 47.4 71.2
119 33.7 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN063853.D
Acq: 3 Oct 2020 5:08

Tgt Ion:152 Resp: 153415
Ion Ratio Lower Upper
152 100
115 63.3 31.3 93.8
150 159.7 0.0 341.8

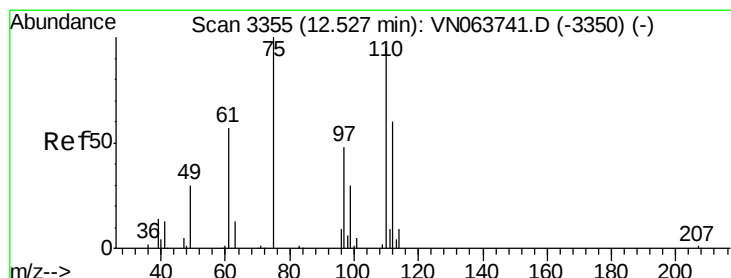
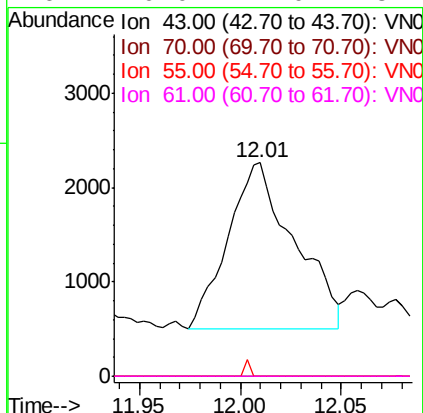
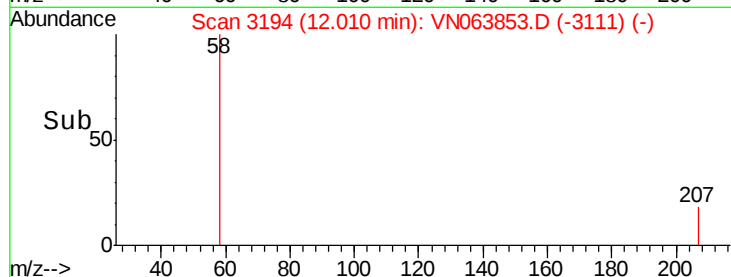
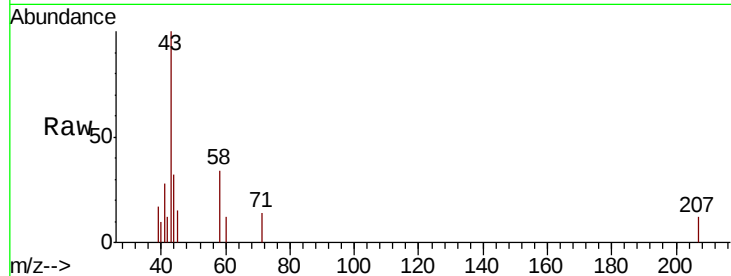




#74
N-amvl acetate
Concen: 2.958 ug/l
RT: 12.01 min Scan# 3194
Delta R.T. -0.03 min
Lab File: VN063853.D
Acq: 3 Oct 2020 5:08

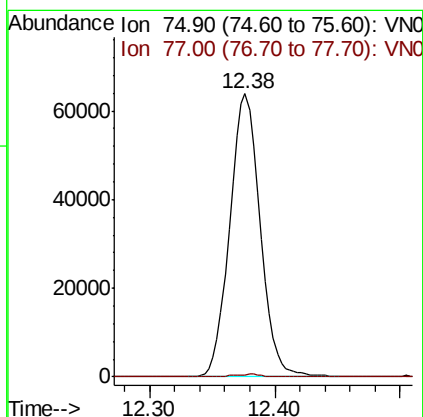
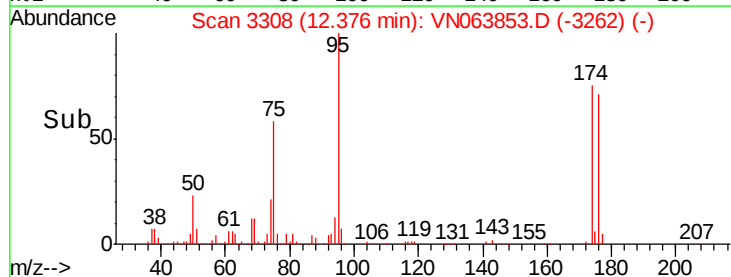
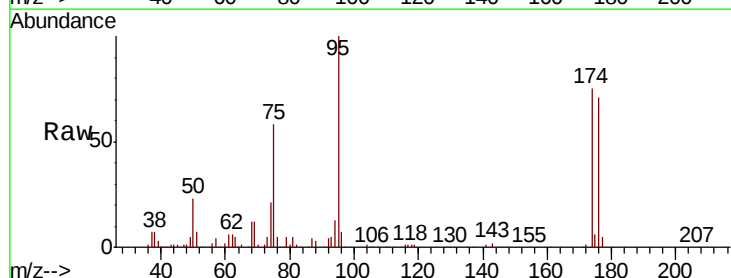
Instrument :
MSVOA_N
ClientSampleId :
RO-17

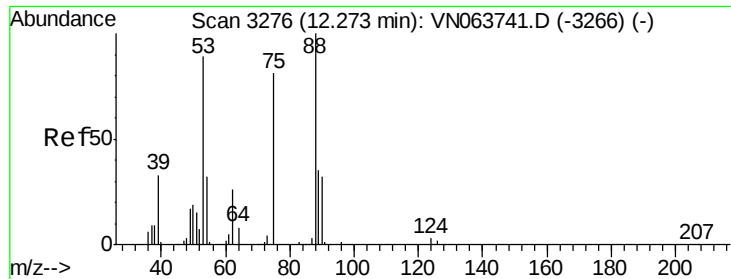
Tot Ion: 43 Resp: 4040
Ion Ratio Lower Upper
43 100
70 0.0 29.8 44.8#
55 0.0 17.9 26.9#
61 0.0 17.0 25.4#



#76
1,2,3-Trichloropropane
Concen: 31.755 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN063853.D
Acq: 3 Oct 2020 5:08

Tgt Ion: 75 Resp: 107391
Ion Ratio Lower Upper
75 100
77 0.9 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 91.459 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063853.D

Acq: 3 Oct 2020 5:08

Instrument :

MSVOA_N

ClientSampleId :

RO-17

Tot Ion: 75 Resp: 107391

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

89 0.0 36.0 54.0#

