

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100220\
 Data File : VN063855.D
 Acq On : 3 Oct 2020 5:56
 Operator : JC/MD
 Sample : L4198-32
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-4

Quant Time: Oct 05 04:26:24 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	7.62	168	206842	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	391009	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	406901	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	157460	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	183054	53.57	ug/l	0.00
Spiked Amount 50.000			Recovery =	107.14%		
35) Dibromofluoromethane	7.55	113	131923	48.62	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.24%		
50) Toluene-d8	10.06	98	499727	48.59	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.18%		
62) 4-Bromofluorobenzene	12.38	95	190752	49.34	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.68%		

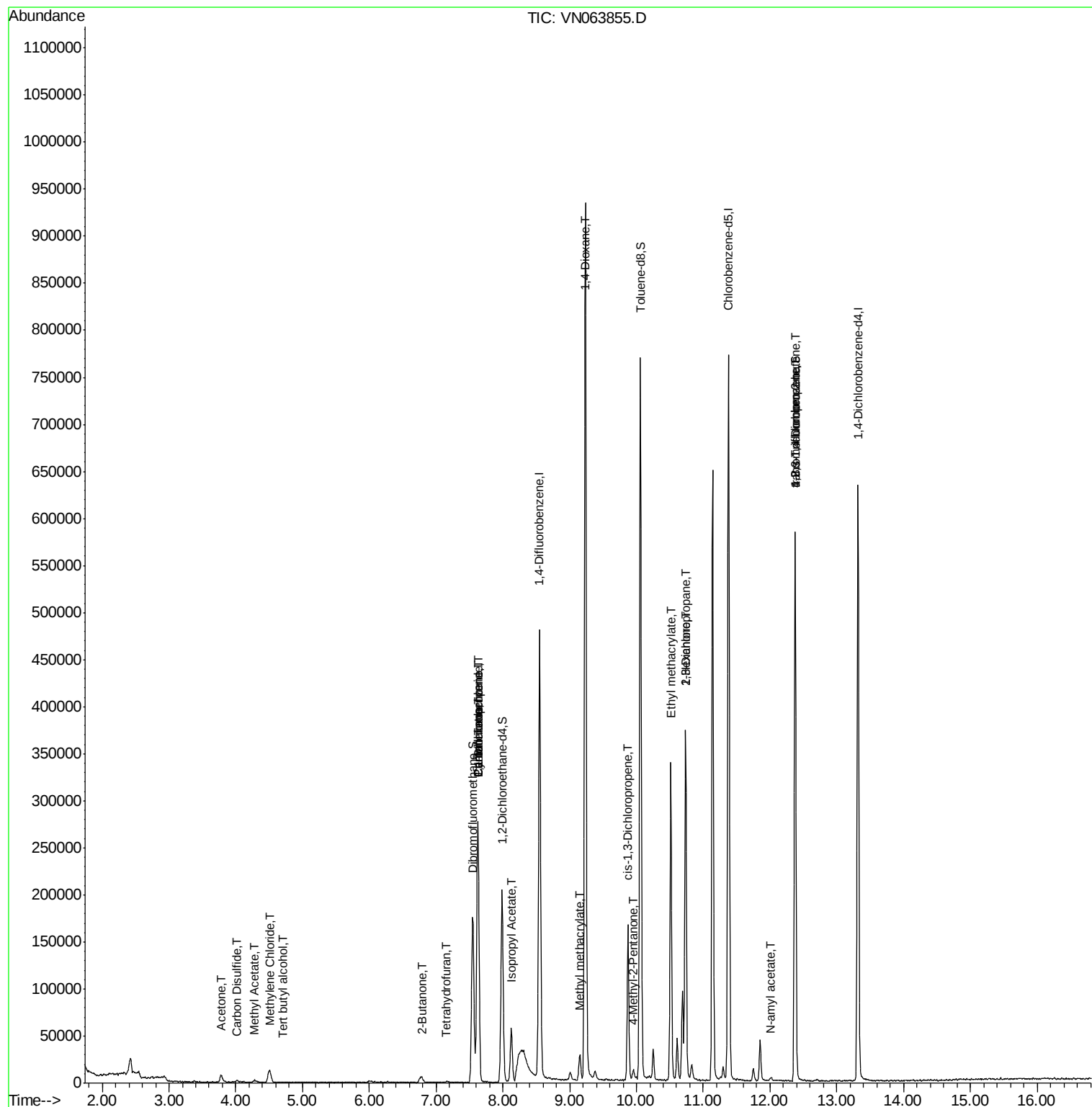
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	123	0.326	ug/l #	71
16) Acetone	3.78	43	13345	12.686	ug/l #	89
17) Carbon Disulfide	4.00	76	308	0.755	ug/l #	76
18) Methyl Acetate	4.28	43	2321	0.850	ug/l #	89
20) Methylene Chloride	4.51	84	9582	4.067	ug/l #	91
25) 2-Butanone	6.80	43	1580	1.059	ug/l	98
29) Tetrahydrofuran	7.14	42	204	0.204	ug/l #	72
31) Cyclohexane	7.63	56	5613	1.415	ug/l #	23
36) 1,1-Dichloropropene	7.62	75	19038	4.806	ug/l #	50
38) Carbon Tetrachloride	7.62	117	23337	5.254	ug/l #	15
43) Isopropyl Acetate	8.13	43	67629	10.418	ug/l	100
48) Methyl methacrylate	9.14	41	4445	1.386	ug/l #	12
49) 1,4-Dioxane	9.25	88	229	5.024	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	8348	2.191	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	25749	5.287	ug/l #	68
56) Ethyl methacrylate	10.51	69	2085	0.524	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3579	0.754	ug/l #	43
59) 2-Hexanone	10.74	43	60362	21.329	ug/l #	53
74) N-amyl acetate	12.01	43	2557	2.674	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	105586	30.419	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	105586	87.612	ug/l #	6

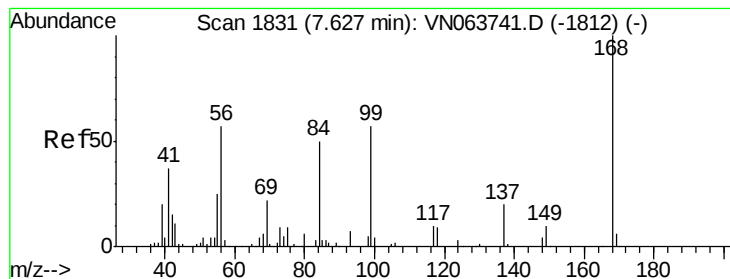
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN063855.D

Acq: 3 Oct 2020 5:56

Instrument :

MSVOA_N

ClientSampled :

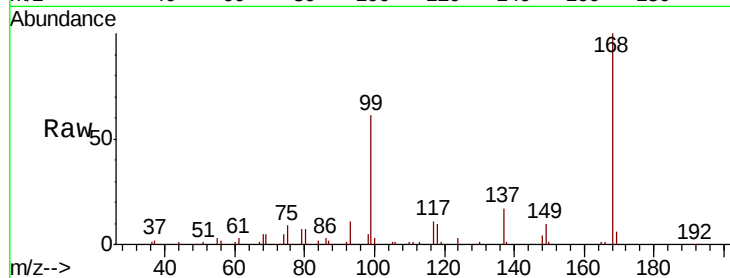
RO-4

Tot Ion:168 Resp: 206842

Ion Ratio Lower Upper

168 100

99 60.9 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): VN063741.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN063741.D (-1812) (-)

7.62

100000

80000

60000

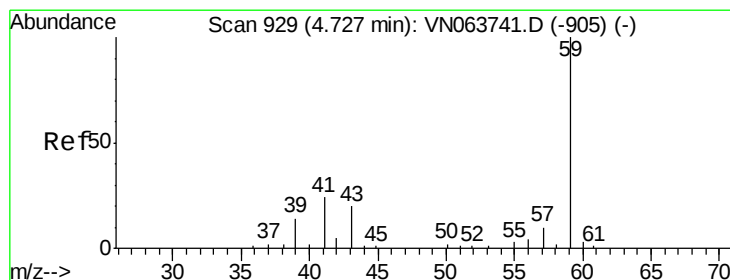
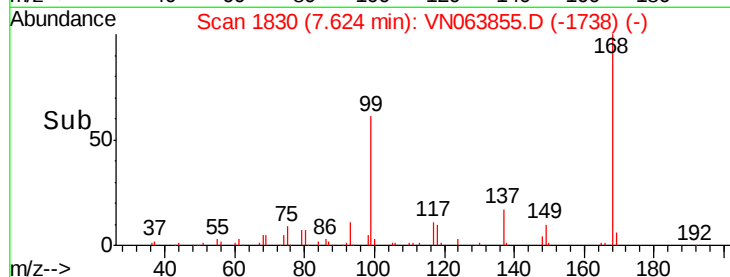
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#11

Tert butyl alcohol

Concen: 0.326 ug/l

RT: 4.70 min Scan# 921

Delta R.T. -0.03 min

Lab File: VN063855.D

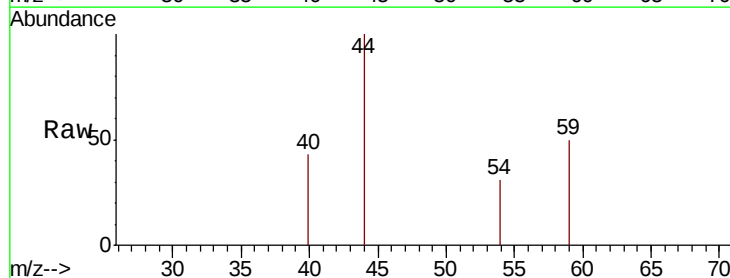
Acq: 3 Oct 2020 5:56

Tgt Ion: 59 Resp: 123

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN063741.D (-905) (-)

Ion 57.00 (56.70 to 57.70): VN063741.D (-905) (-)

4.70

250

200

150

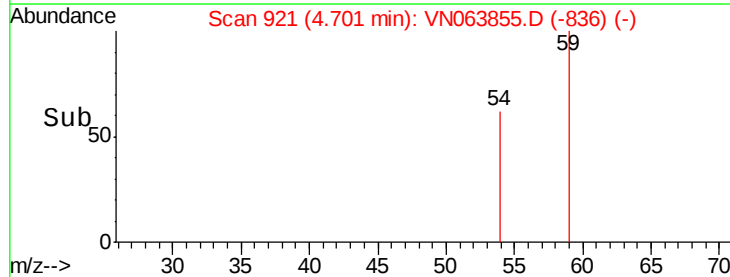
100

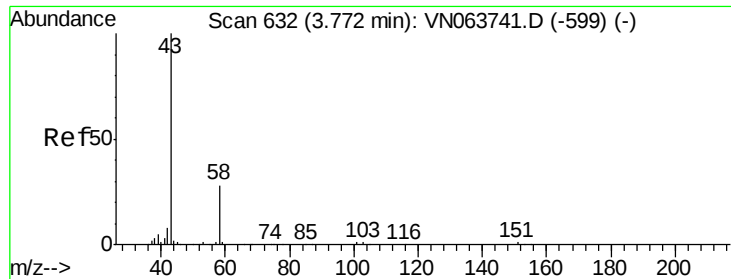
50

0

Time-->

4.69 4.70 4.71





#16

Acetone

Concen: 12.686 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN063855.D

Acq: 3 Oct 2020 5:56

Instrument :

MSVOA_N

ClientSampled :

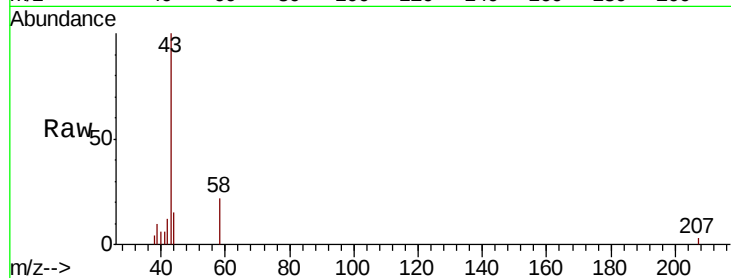
RO-4

Tot Ion: 43 Resp: 13345

Ion Ratio Lower Upper

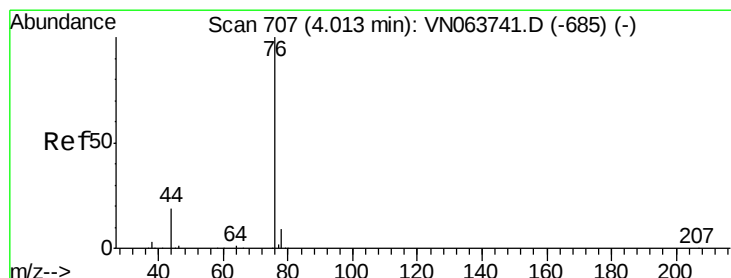
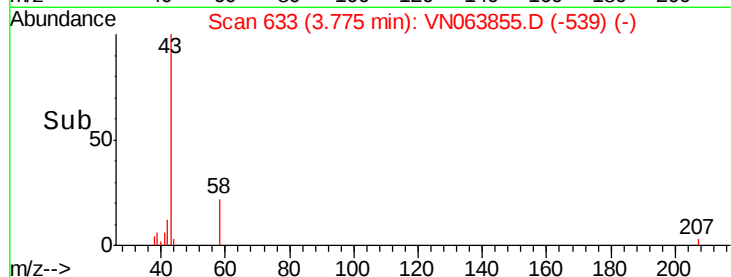
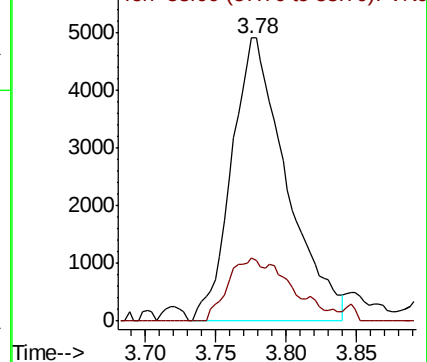
43 100

58 22.2 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.755 ug/l

RT: 4.00 min Scan# 704

Delta R.T. -0.01 min

Lab File: VN063855.D

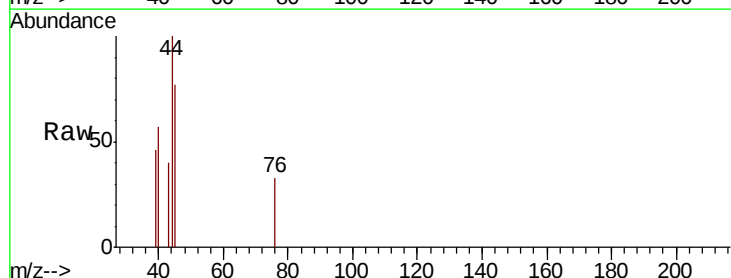
Acq: 3 Oct 2020 5:56

Tgt Ion: 76 Resp: 308

Ion Ratio Lower Upper

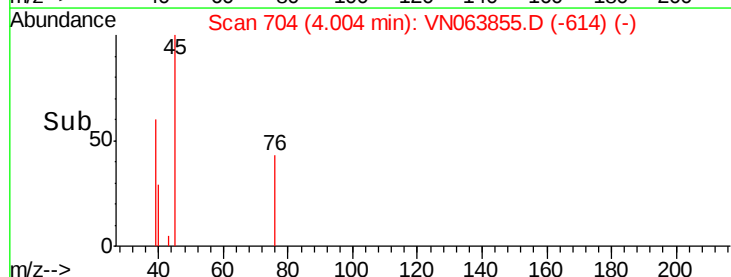
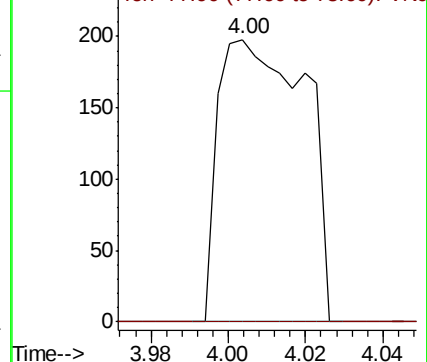
76 100

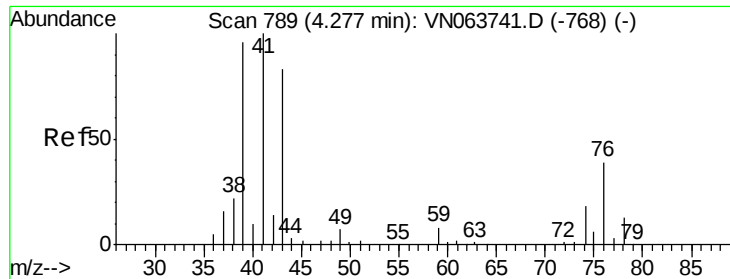
78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

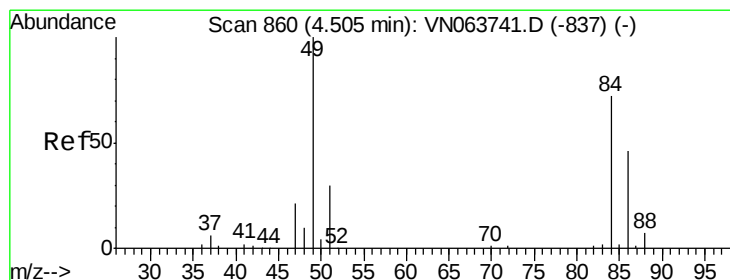
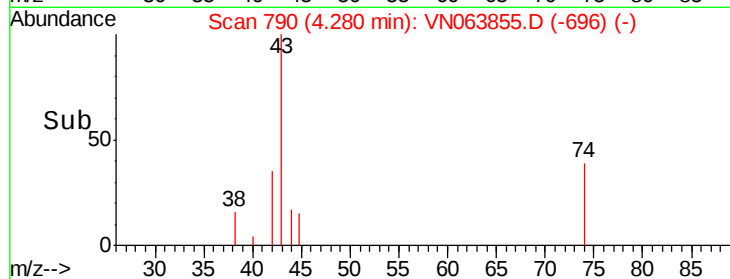
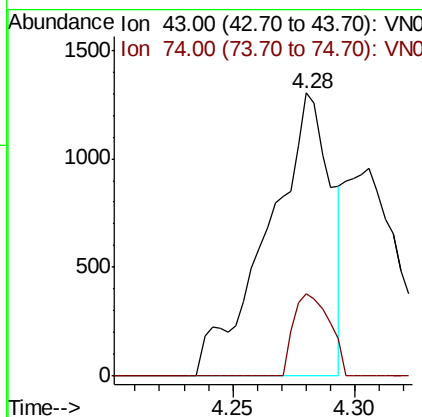
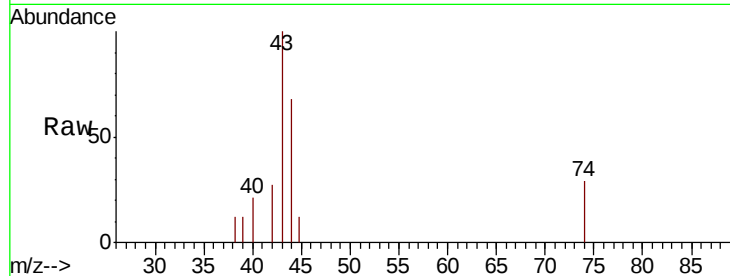




#18
Methyl Acetate
Concen: 0.850 ug/l
RT: 4.28 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN063855.D
Acq: 3 Oct 2020 5:56

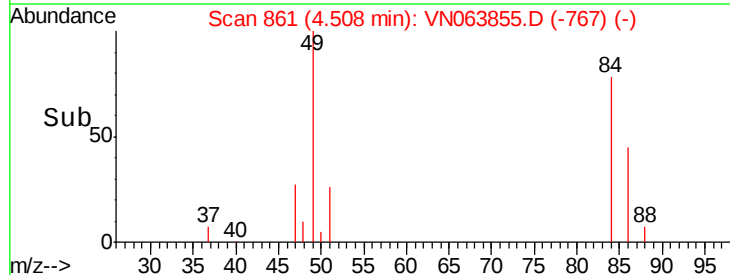
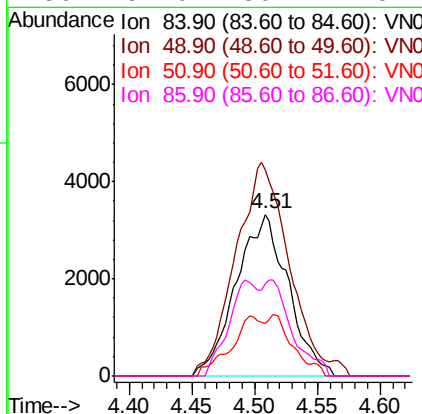
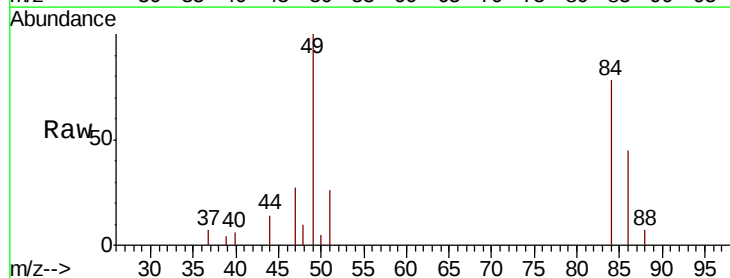
Instrument :
MSVOA_N
ClientSampled :
RO-4

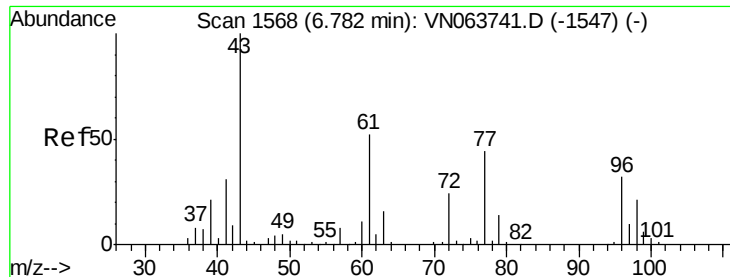
Tot Ion: 43 Resp: 2321
Ion Ratio Lower Upper
43 100
74 16.6 17.4 26.2#



#20
Methylene Chloride
Concen: 4.067 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN063855.D
Acq: 3 Oct 2020 5:56

Tgt Ion: 84 Resp: 9582
Ion Ratio Lower Upper
84 100
49 127.6 110.4 165.6
51 32.9 33.3 49.9#
86 57.0 50.7 76.1





#25

2-Butanone

Concen: 1.059 ug/l

RT: 6.80 min Scan# 1575

Delta R.T. 0.02 min

Lab File: VN063855.D

Acq: 3 Oct 2020 5:56

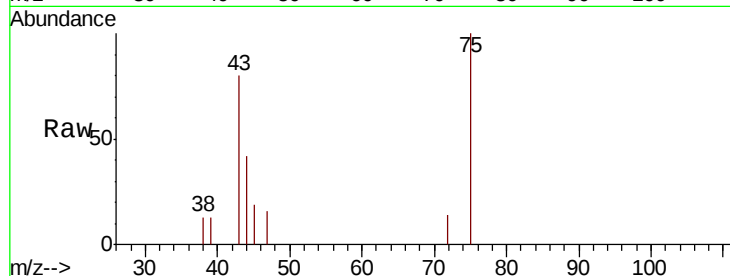
Instrument :
MSVOA_N
ClientSampled :
RO-4

Tot Ion: 43 Resp: 1580

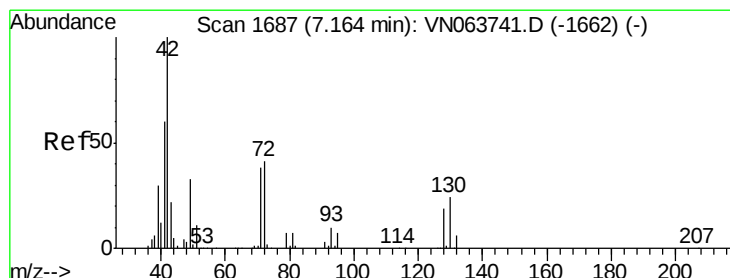
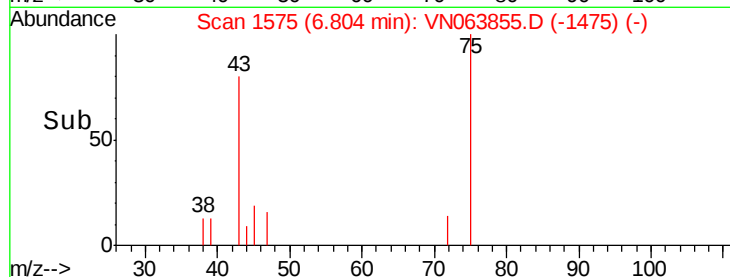
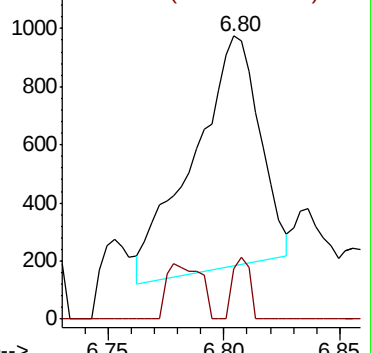
Ion Ratio Lower Upper

43 100

72 23.0 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.204 ug/l

RT: 7.14 min Scan# 1679

Delta R.T. -0.03 min

Lab File: VN063855.D

Acq: 3 Oct 2020 5:56

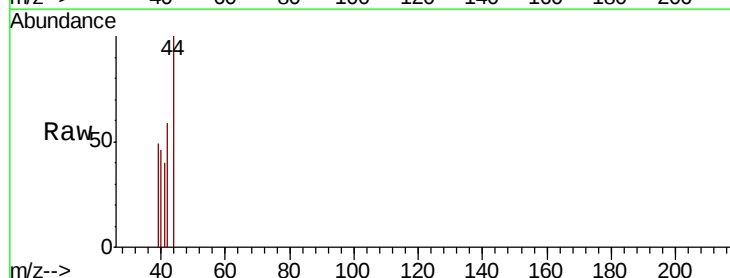
Tgt Ion: 42 Resp: 204

Ion Ratio Lower Upper

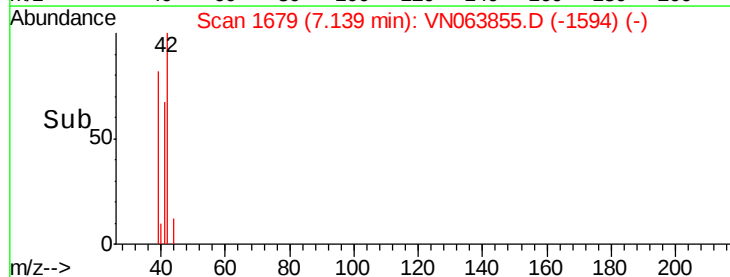
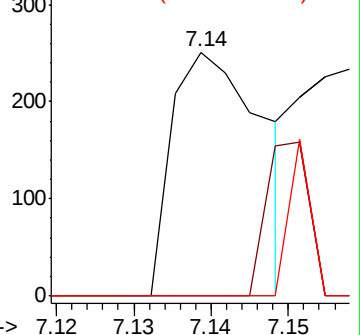
42 100

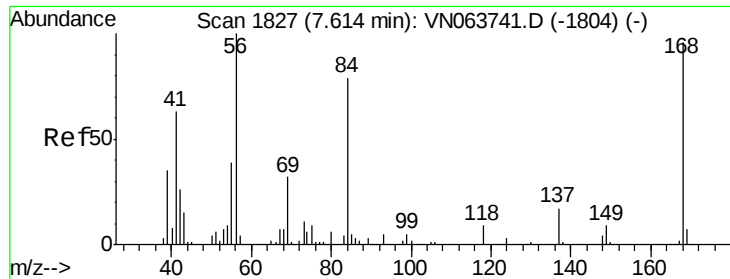
72 29.4 32.8 49.2#

71 15.2 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

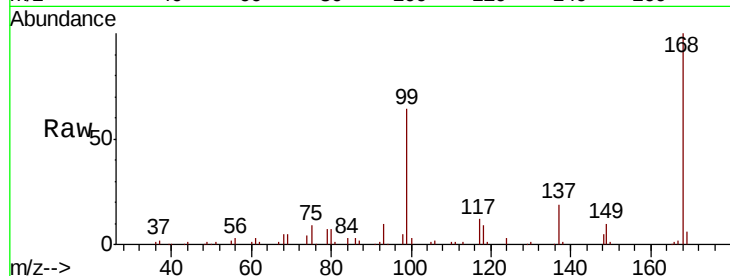




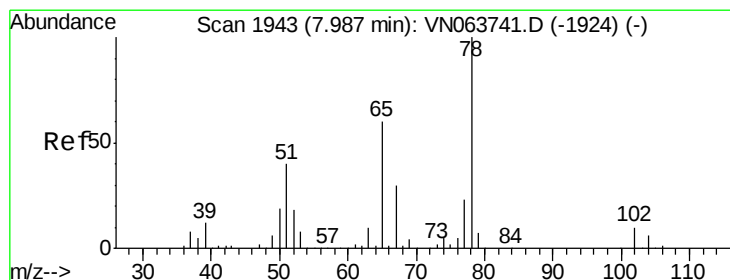
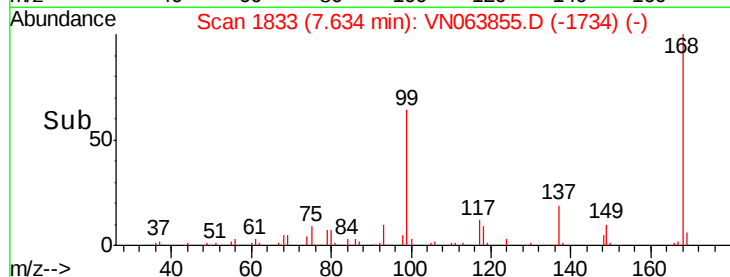
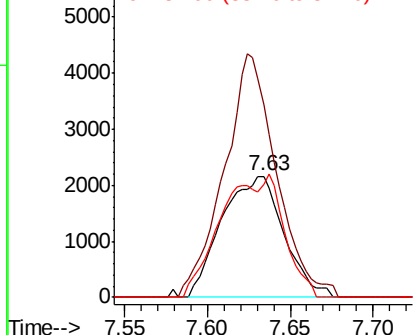
#31
Cyclohexane
Concen: 1.415 ug/l
RT: 7.63 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN063855.D
Acq: 3 Oct 2020 5:56

Instrument :
MSVOA_N
ClientSampled :
RO-4

Tot Ion: 56 Resp: 5613
Ion Ratio Lower Upper
56 100
69 158.8 25.4 38.2#
84 93.1 63.3 94.9

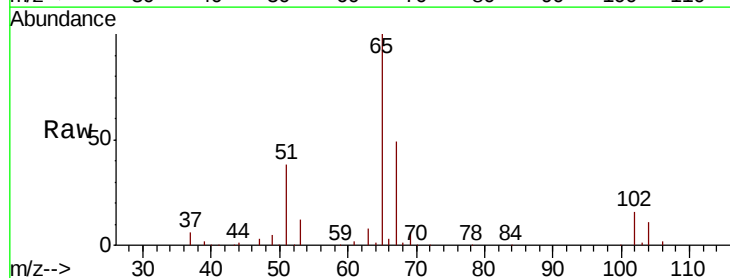


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

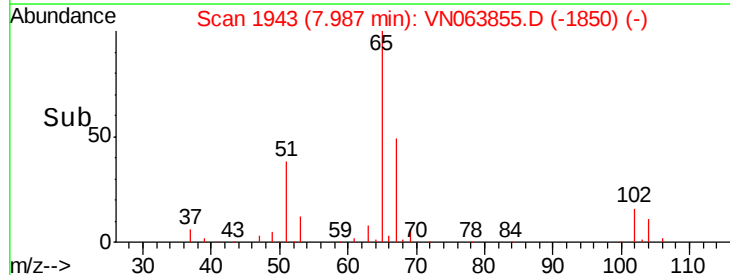
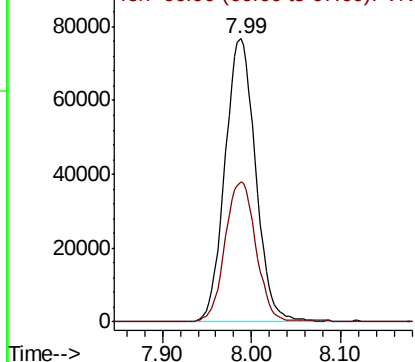


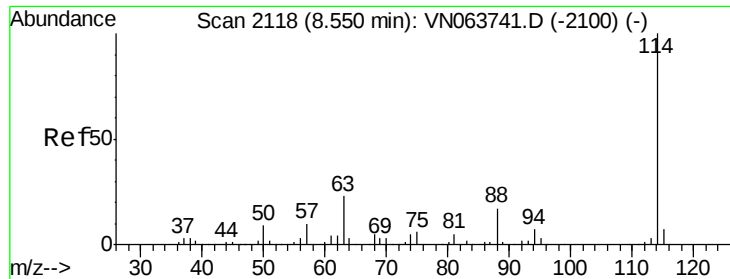
#33
1,2-Dichloroethane-d4
Concen: 53.569 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN063855.D
Acq: 3 Oct 2020 5:56

Tgt Ion: 65 Resp: 183054
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

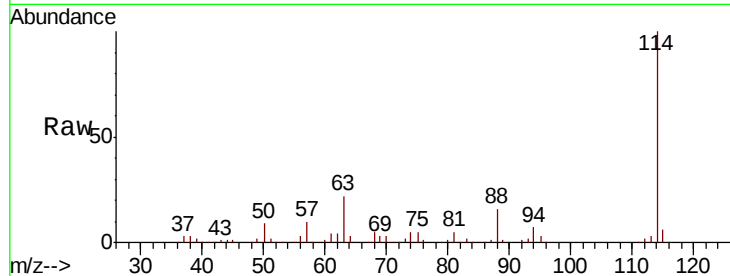




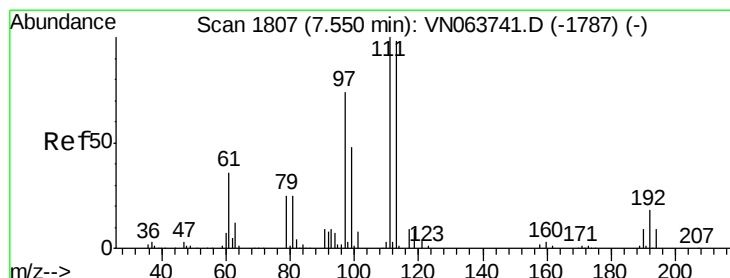
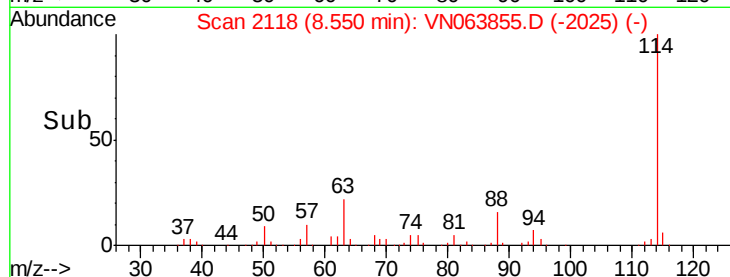
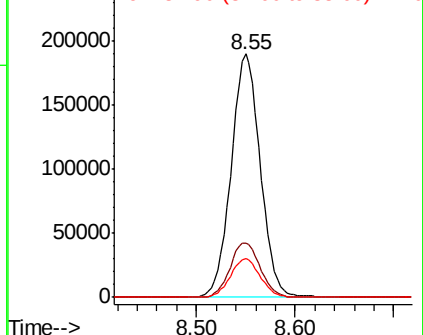
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063855.D
 Acq: 3 Oct 2020 5:56

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-4

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	45.0
88	16.1	0.0	34.0

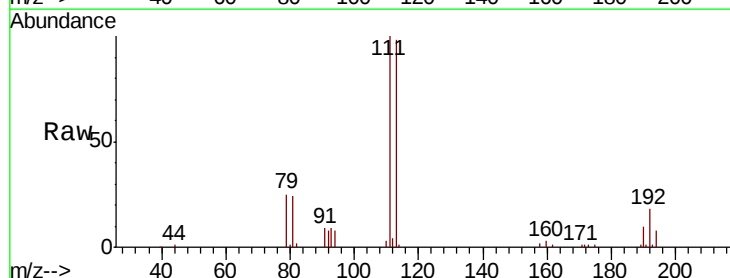


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

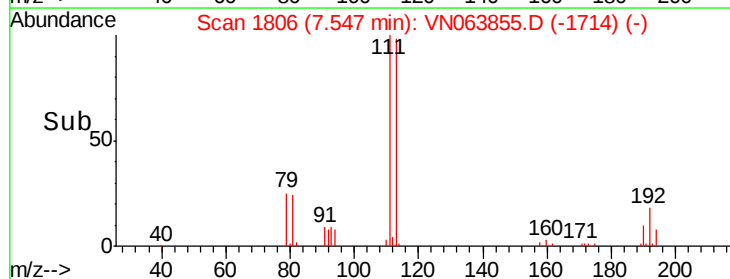
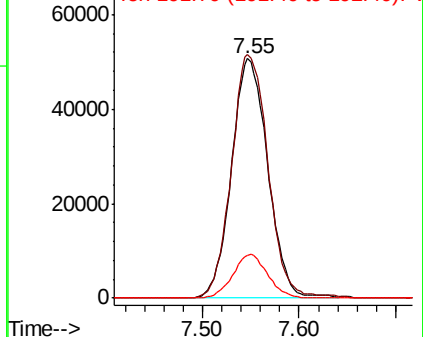


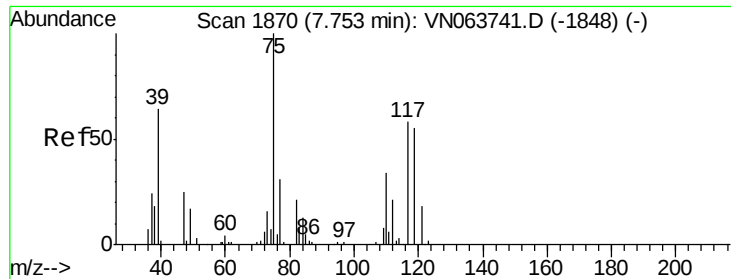
#35
 Dibromofluoromethane
 Concen: 48.624 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN063855.D
 Acq: 3 Oct 2020 5:56

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.8	122.8
192	17.5	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

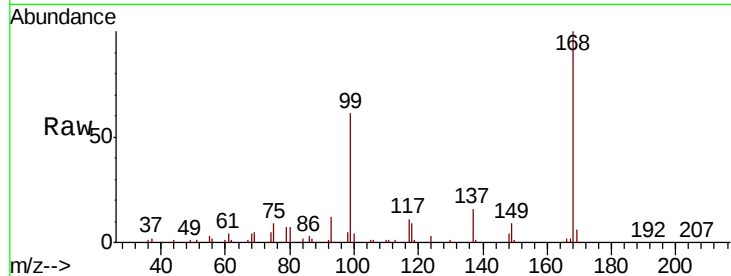




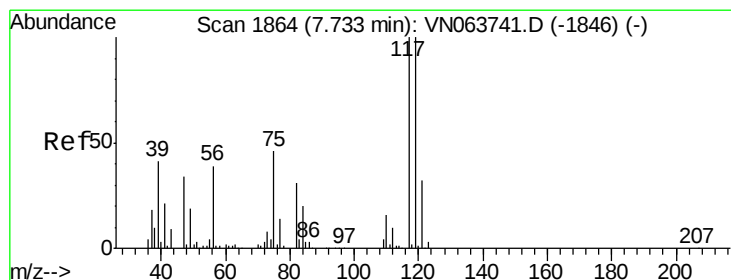
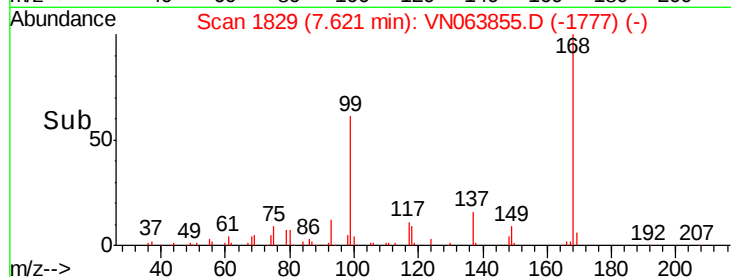
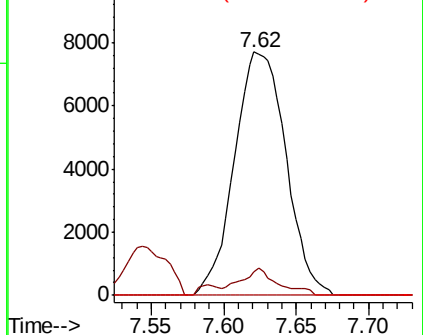
#36
 1,1-Dichloropropene
 Concen: 4.806 ug/l
 RT: 7.62 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN063855.D
 Acq: 3 Oct 2020 5:56

Instrument :
 MSVOA_N
 ClientSampled :
 RO-4

Tot Ion	75	Resp	19038
Ion Ratio	100	Lower	Upper
75	100		
110	8.0	16.9	50.6#
77	0.0	24.5	36.7#

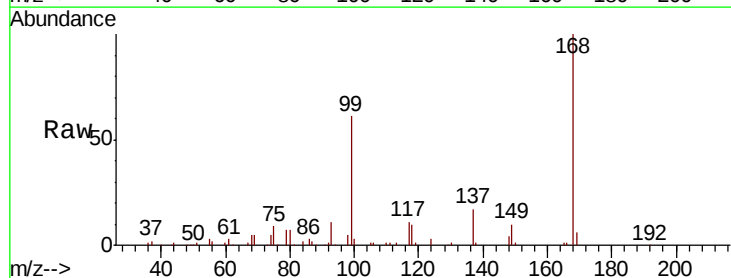


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

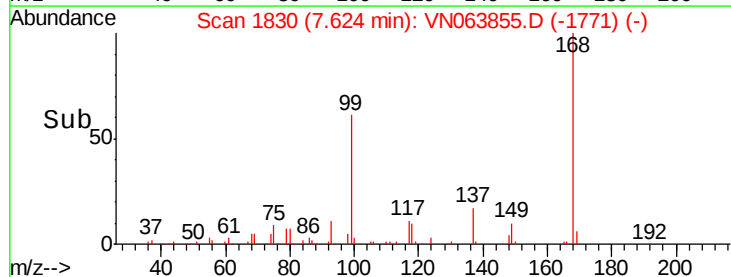
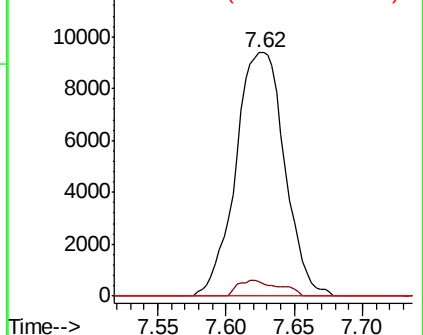


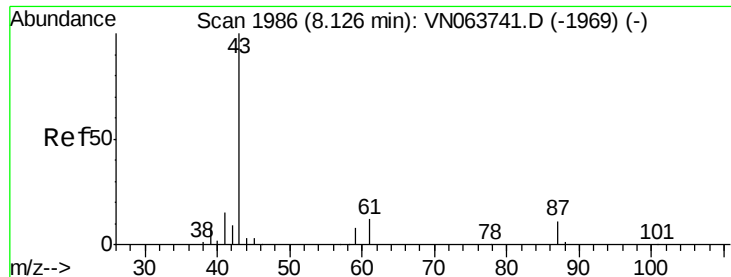
#38
 Carbon Tetrachloride
 Concen: 5.254 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN063855.D
 Acq: 3 Oct 2020 5:56

Tgt Ion	117	Resp	23337
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	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

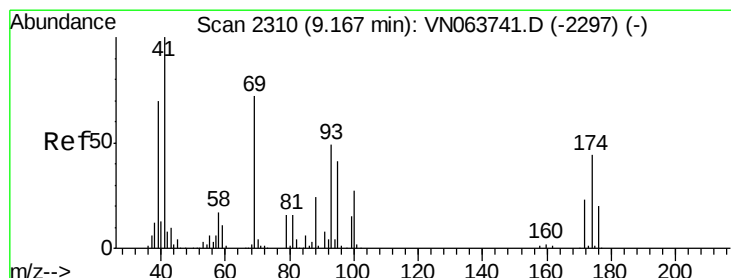
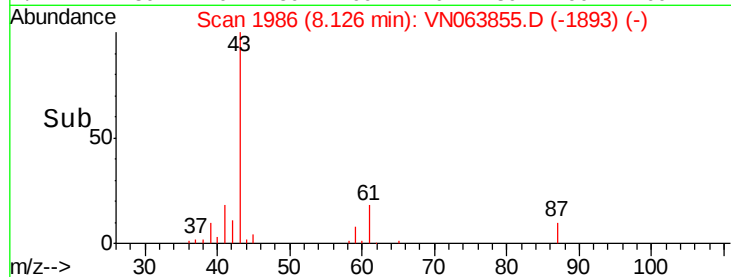
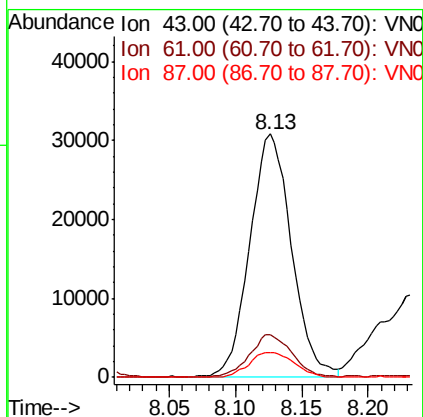
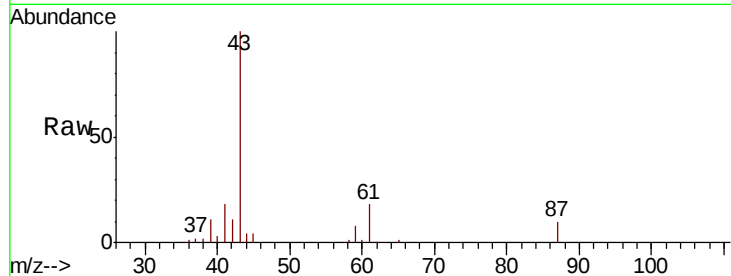




#43
Isopropyl Acetate
Concen: 10.418 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. 0.00 min
Lab File: VN063855.D
Acq: 3 Oct 2020 5:56

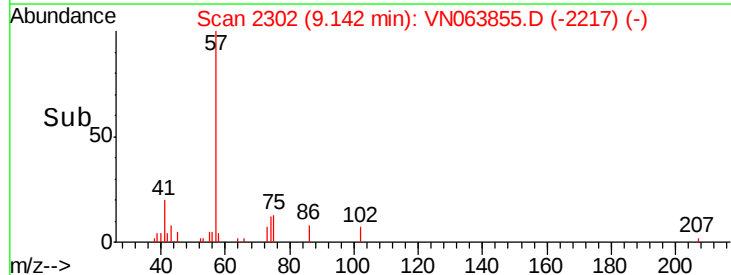
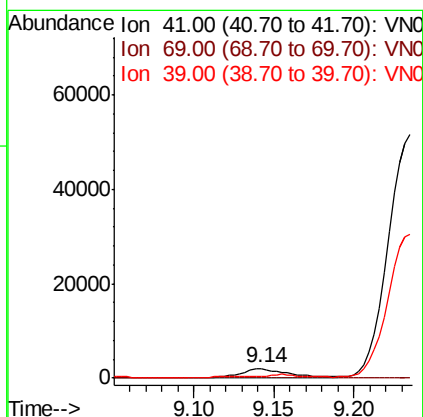
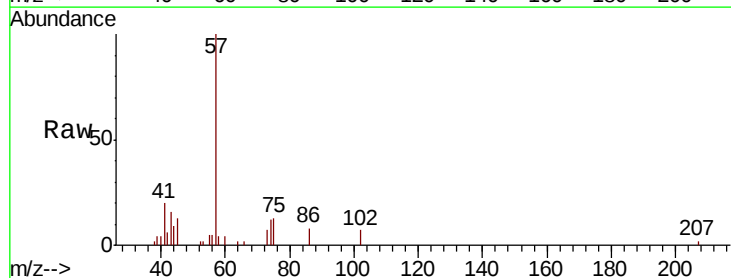
Instrument :
MSVOA_N
ClientSampled :
RO-4

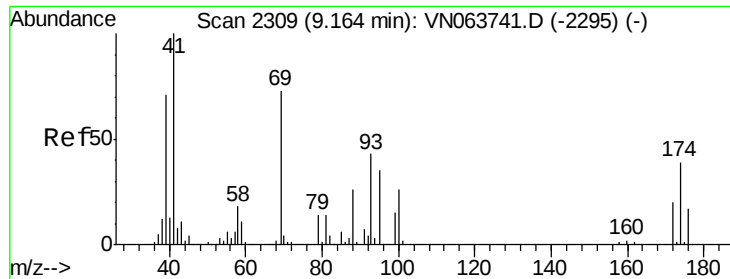
Tot Ion	43	61	87
Resp	67629		
Ratio	100	17.8	10.9
Lower		14.2	9.0
Upper		21.4	13.6



#48
Methyl methacrylate
Concen: 1.386 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN063855.D
Acq: 3 Oct 2020 5:56

Tgt Ion	41	69	39
Resp	4445		
Ratio	100	0.0	0.0
Lower		60.9	57.5
Upper		91.3#	86.3#





#49

1,4-Dioxane

Concen: 5.024 ug/l

RT: 9.25 min Scan# 2335

Delta R.T. 0.08 min

Lab File: VN063855.D

Acq: 3 Oct 2020 5:56

Instrument :

MSVOA_N

ClientSampleId :

RO-4

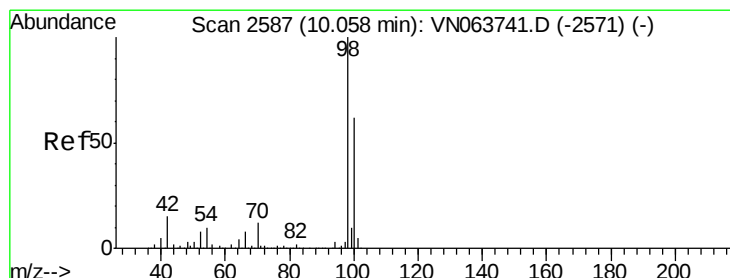
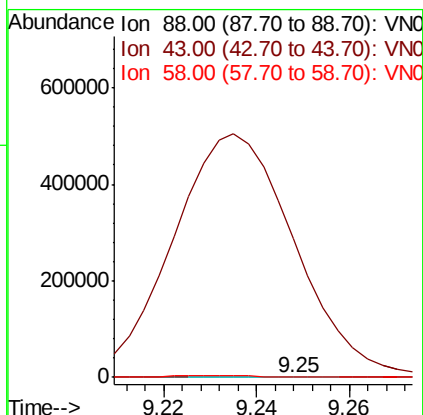
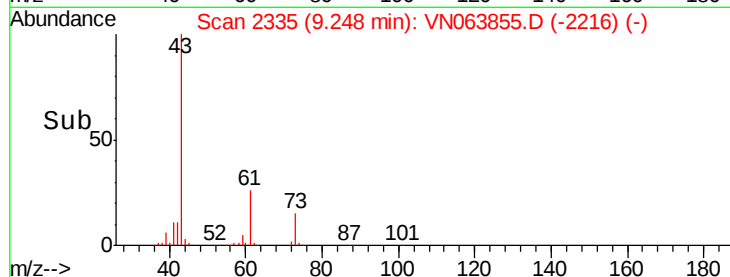
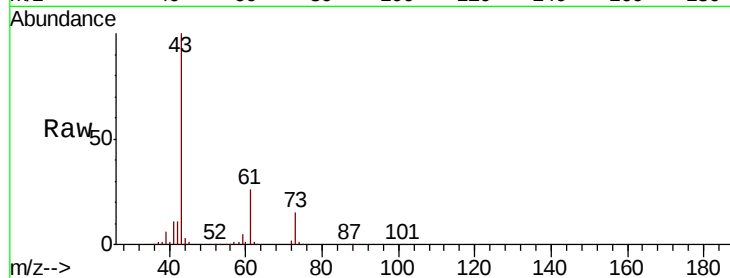
Tot Ion: 88 Resp: 229

Ion Ratio Lower Upper

88 100

43 407496.1 33.1 49.7#

58 2388.2 58.9 88.3#



#50

Toluene-d8

Concen: 48.587 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN063855.D

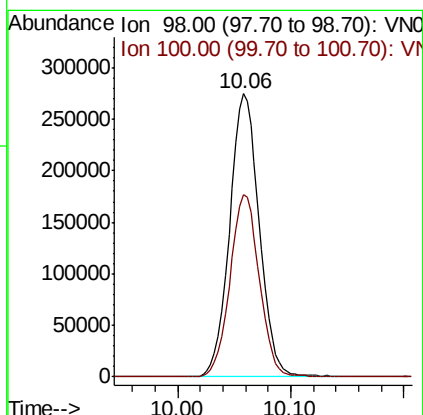
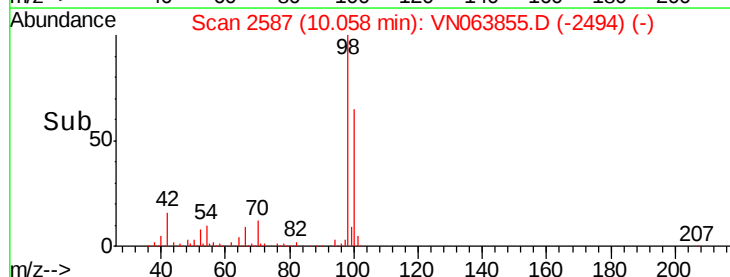
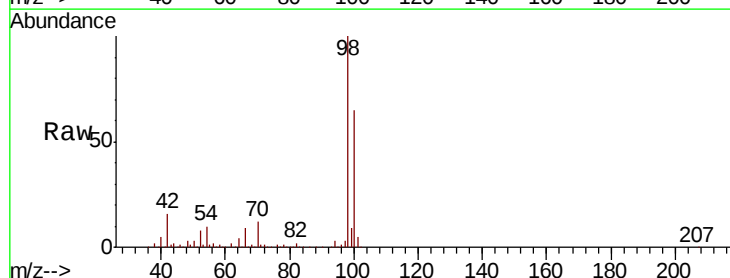
Acq: 3 Oct 2020 5:56

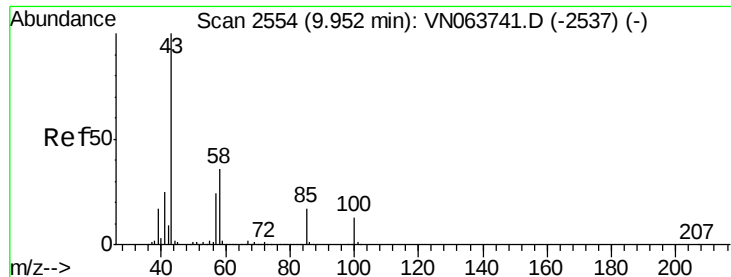
Tgt Ion: 98 Resp: 499727

Ion Ratio Lower Upper

98 100

100 64.0 49.8 74.6

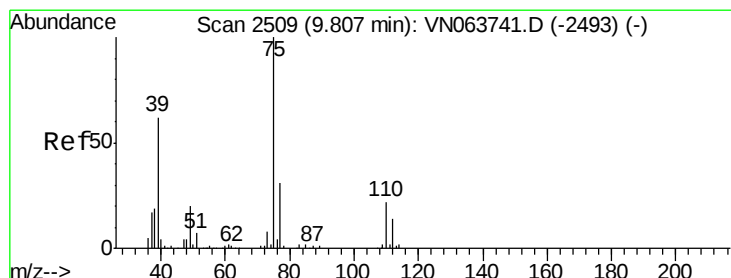
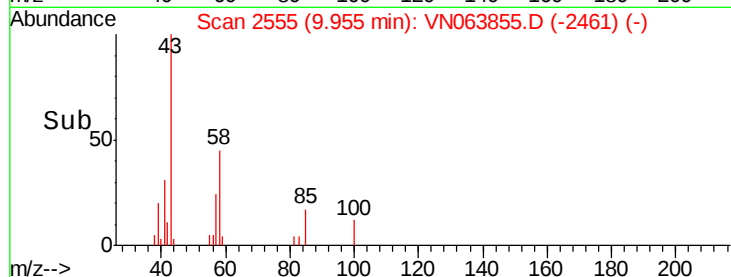
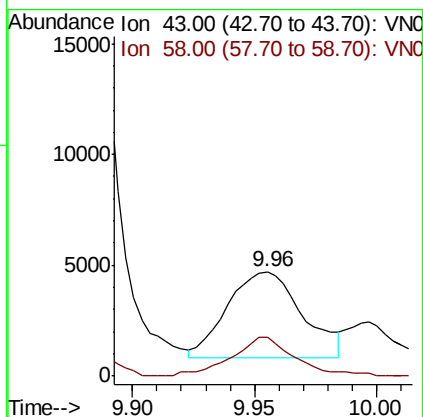
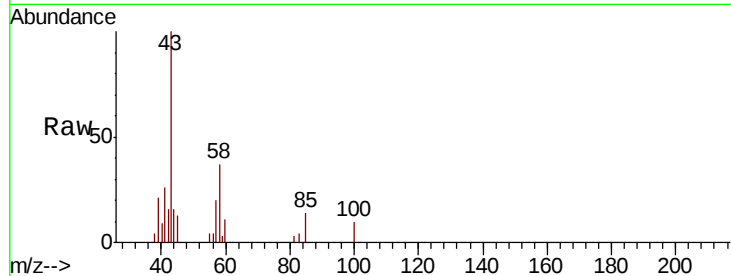




#51
 4-Methyl-2-Pentanone
 Concen: 2.191 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN063855.D
 Acq: 3 Oct 2020 5:56

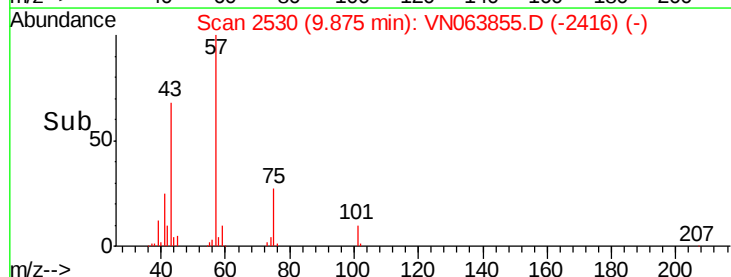
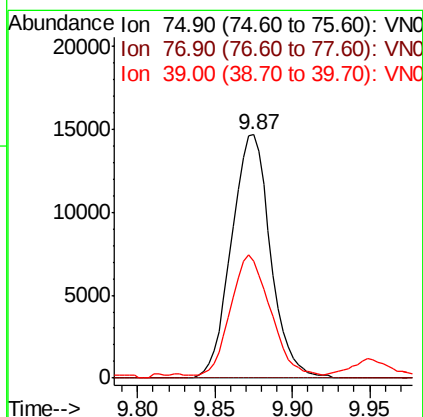
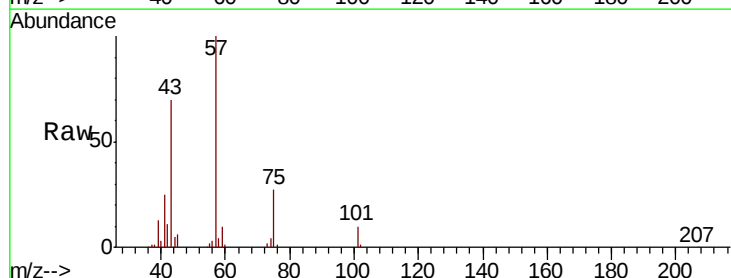
Instrument :
 MSVOA_N
 ClientSampled :
 RO-4

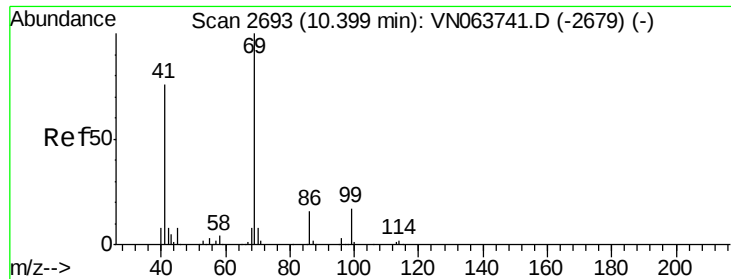
Tot Ion: 43 Resp: 8348
 Ion Ratio Lower Upper
 43 100
 58 37.9 28.4 42.6



#54
 cis-1,3-Dichloropropene
 Concen: 5.287 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063855.D
 Acq: 3 Oct 2020 5:56

Tgt Ion: 75 Resp: 25749
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 47.1 49.7 74.5#





#56

Ethyl methacrylate

Concen: 0.524 ug/l

RT: 10.51 min Scan# 2727

Delta R.T. 0.11 min

Lab File: VN063855.D

Acq: 3 Oct 2020 5:56

Instrument :

MSVOA_N

ClientSampled :

RO-4

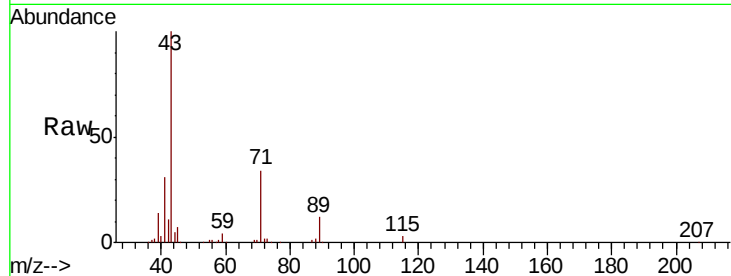
Tot Ion: 69 Resp: 2085

Ion Ratio Lower Upper

69 100

41 3488.6 61.1 91.7#

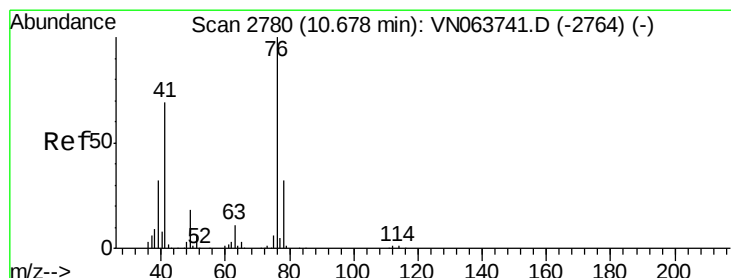
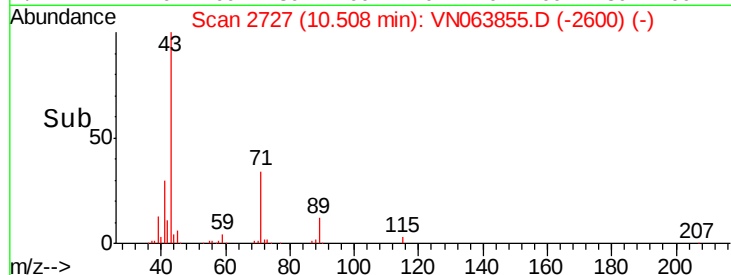
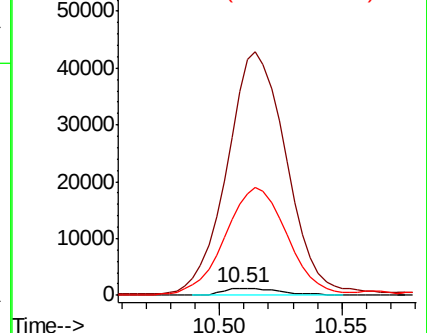
39 1616.5 42.2 63.4#



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: 0.754 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063855.D

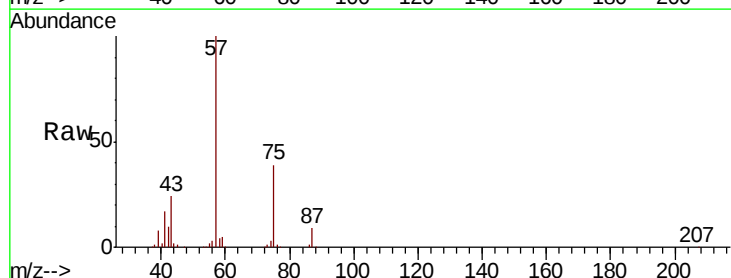
Acq: 3 Oct 2020 5:56

Tgt Ion: 76 Resp: 3579

Ion Ratio Lower Upper

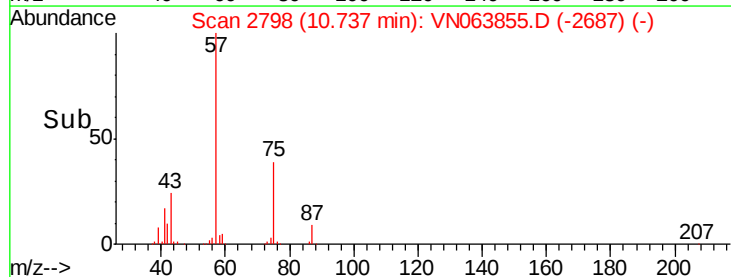
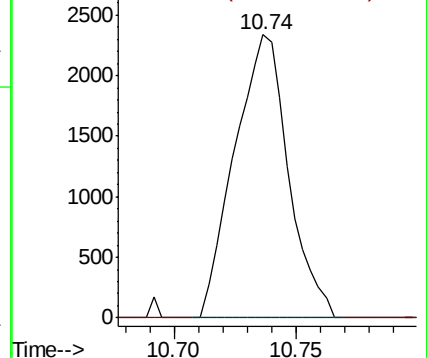
76 100

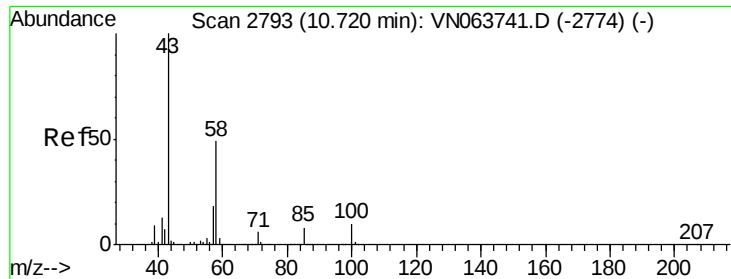
78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

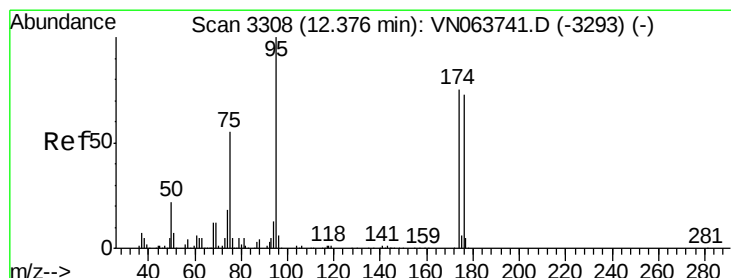
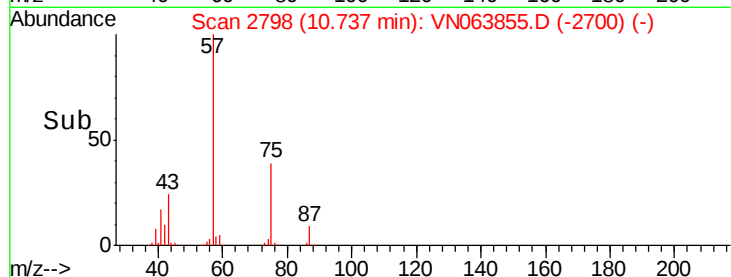
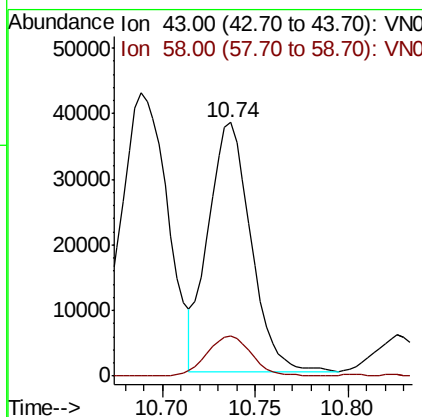
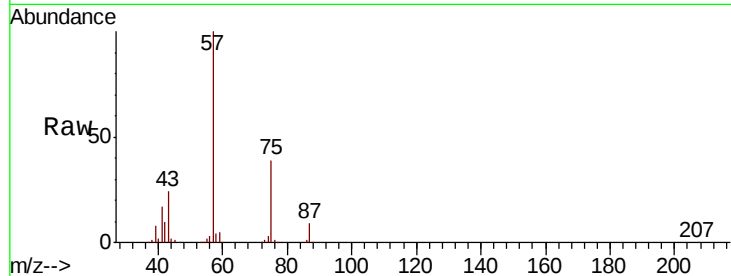




#59
2-Hexanone
Concen: 21.329 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063855.D
Acq: 3 Oct 2020 5:56

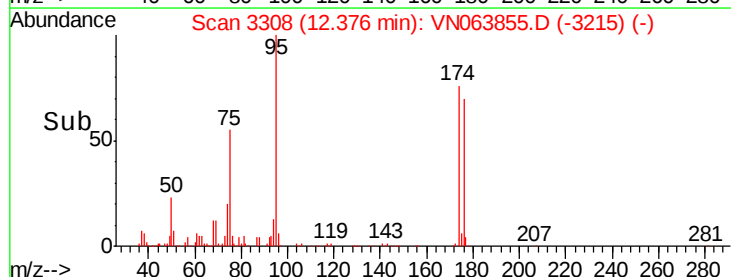
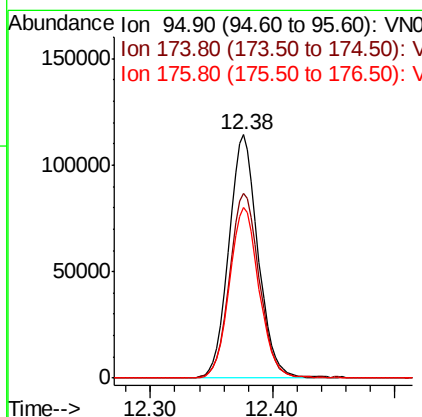
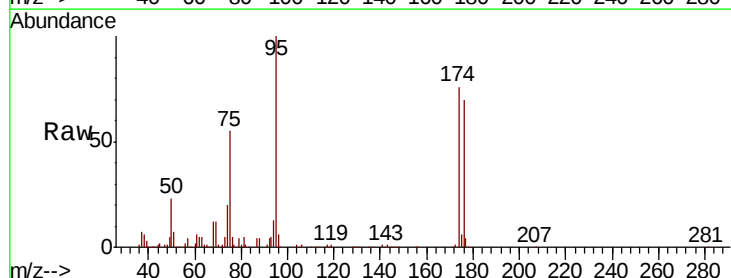
Instrument :
MSVOA_N
ClientSampleId :
RO-4

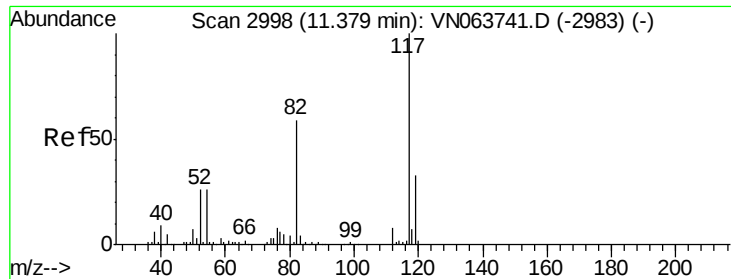
Tot Ion: 43 Resp: 60362
Ion Ratio Lower Upper
43 100
58 16.8 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 49.337 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063855.D
Acq: 3 Oct 2020 5:56

Tgt Ion: 95 Resp: 190752
Ion Ratio Lower Upper
95 100
174 77.4 0.0 150.6
176 71.5 0.0 145.4

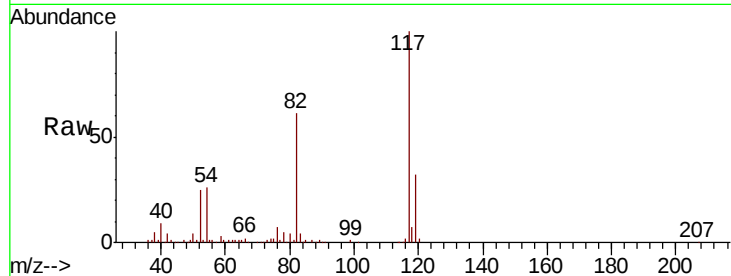




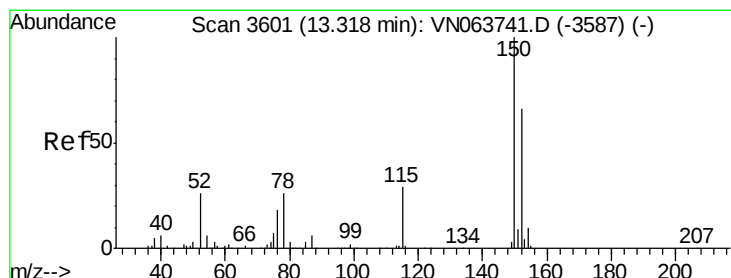
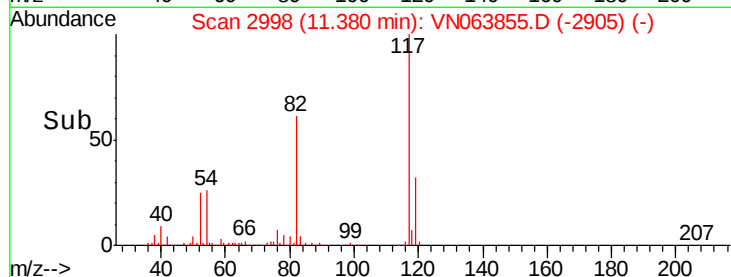
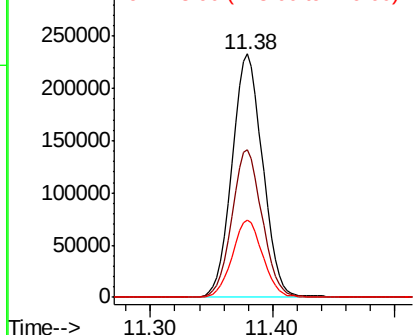
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063855.D
Acq: 3 Oct 2020 5:56

Instrument :
MSVOA_N
ClientSampled :
RO-4

Tot Ion:117 Resp: 406901
Ion Ratio Lower Upper
117 100
82 60.6 47.4 71.2
119 31.8 26.4 39.6

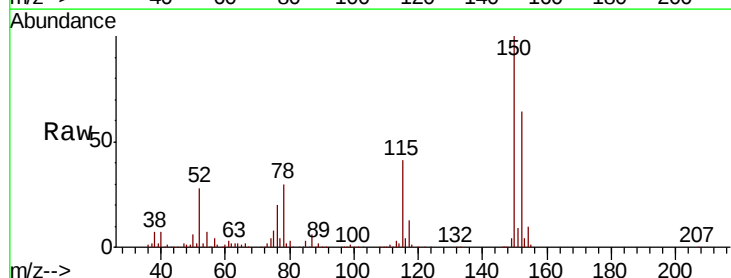


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

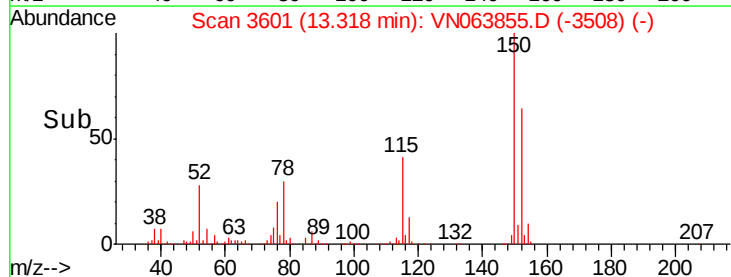
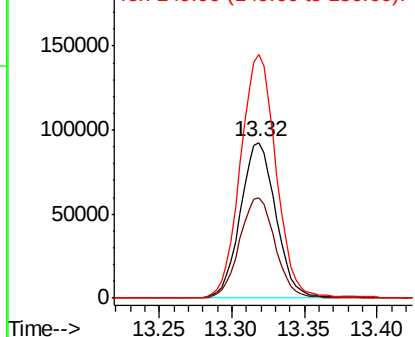


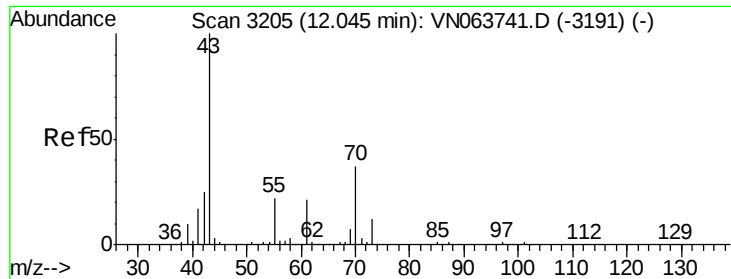
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN063855.D
Acq: 3 Oct 2020 5:56

Tgt Ion:152 Resp: 157460
Ion Ratio Lower Upper
152 100
115 65.1 31.3 93.8
150 157.9 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-amvl acetate

Concen: 2.674 ug/l

RT: 12.01 min Scan# 3195

Delta R.T. -0.03 min

Lab File: VN063855.D

Acq: 3 Oct 2020 5:56

Instrument :

MSVOA_N

ClientSampled :

RO-4

Tot Ion: 43 Resp: 2557

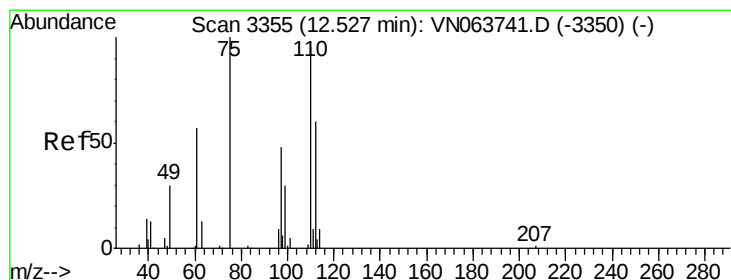
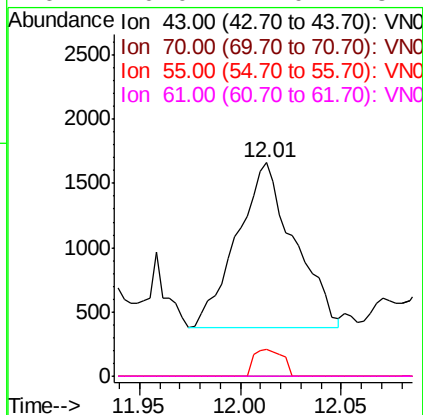
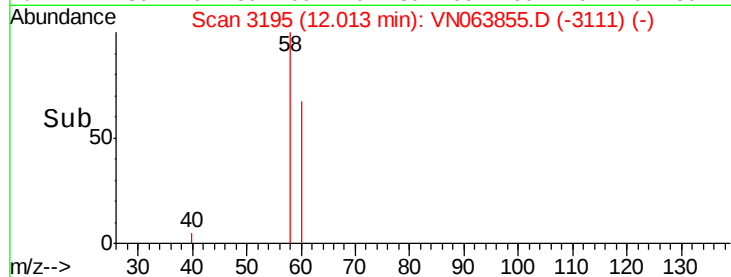
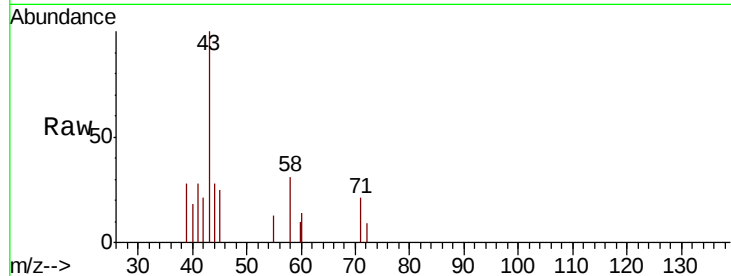
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 8.3 17.9 26.9#

61 0.0 17.0 25.4#



#76

1,2,3-Trichloropropane

Concen: 30.419 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063855.D

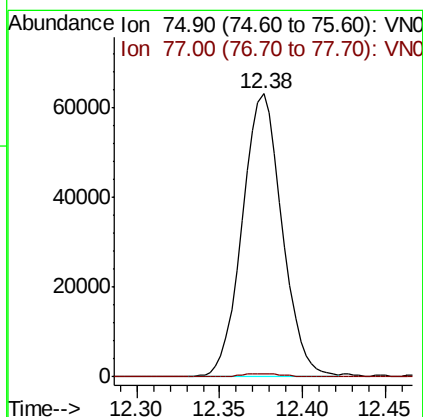
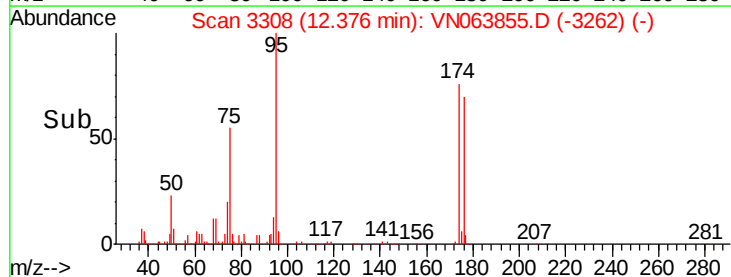
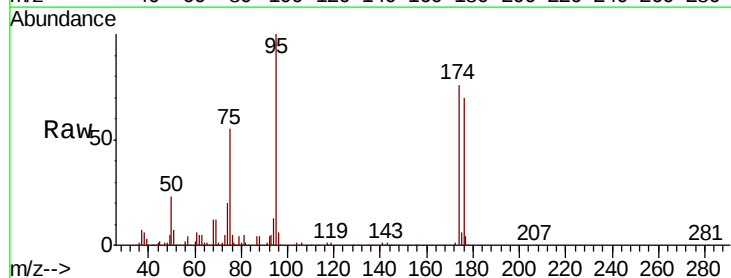
Acq: 3 Oct 2020 5:56

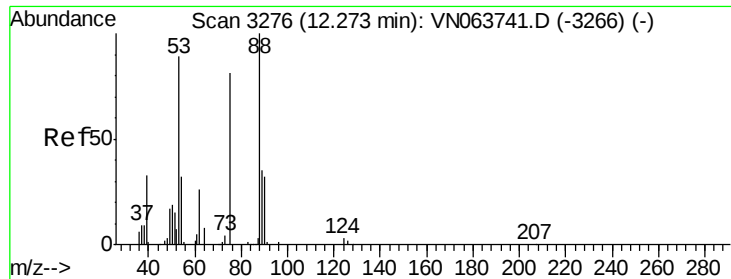
Tgt Ion: 75 Resp: 105586

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 87.612 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063855.D

Acq: 3 Oct 2020 5:56

Instrument :

MSVOA_N

ClientSampleId :

RO-4

Tot Ion: 75 Resp: 105586

Ion Ratio Lower Upper

75 100

53 0.2 88.2 132.2#

89 0.0 36.0 54.0#

