

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100920\
 Data File : VN064063.D
 Acq On : 10 Oct 2020 2:49
 Operator : JC/MD
 Sample : L4316-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 11929

Quant Time: Oct 10 03:08:23 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	201425	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	407086	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	419202	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	154378	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	181758	54.62	ug/l	0.00
Spiked Amount			Recovery	=	109.24%	
35) Dibromofluoromethane	7.55	113	131396	46.52	ug/l	0.00
Spiked Amount			Recovery	=	93.04%	
50) Toluene-d8	10.06	98	513317	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	
62) 4-Bromofluorobenzene	12.38	95	189323	47.03	ug/l	0.00
Spiked Amount			Recovery	=	94.06%	

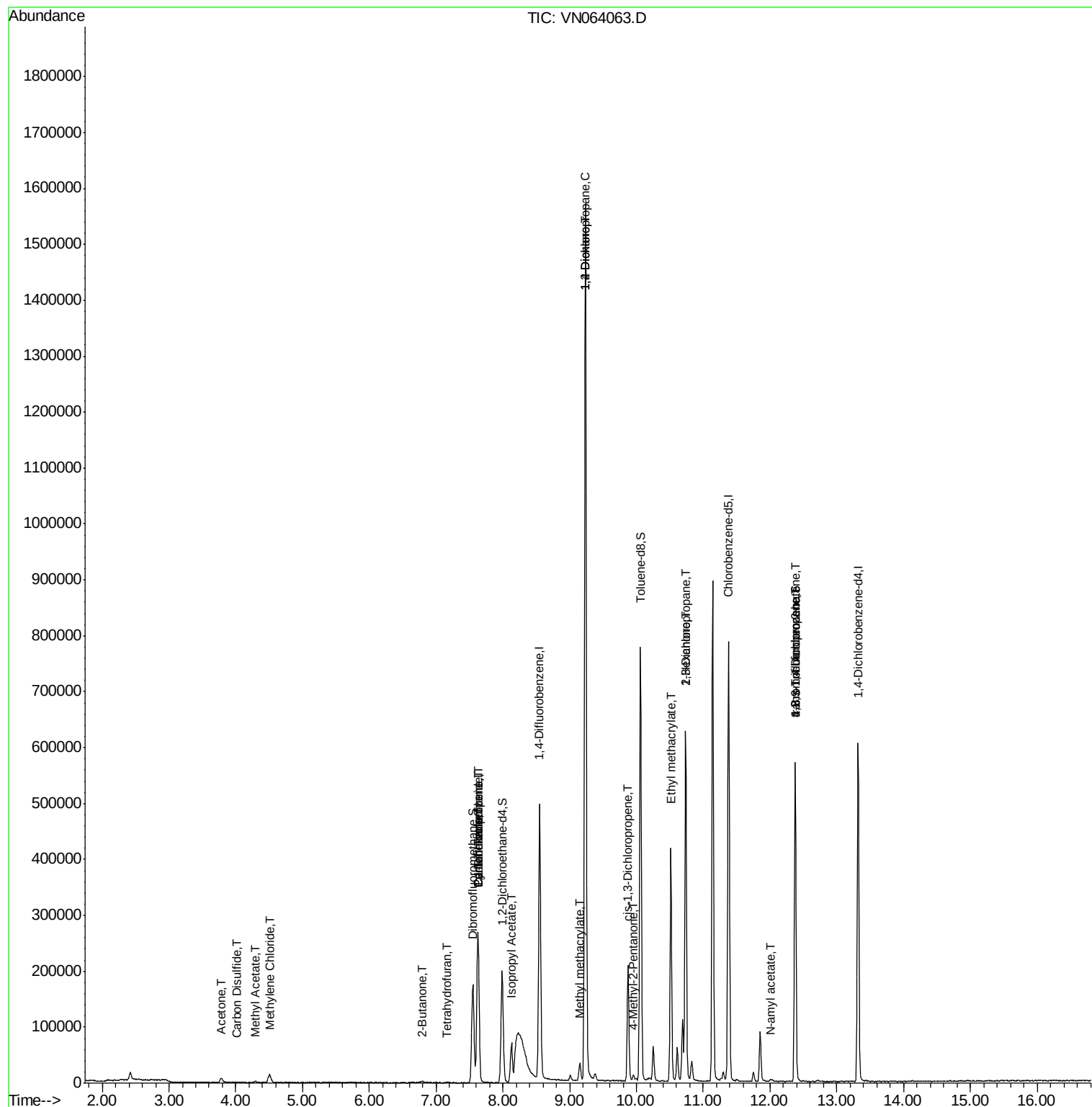
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	13842	13.513	ug/l	94
17) Carbon Disulfide	4.02	76	429	0.778	ug/l #	76
18) Methyl Acetate	4.29	43	4252	1.599	ug/l #	84
20) Methylene Chloride	4.51	84	10017	4.359	ug/l	92
25) 2-Butanone	6.80	43	1591	1.096	ug/l #	51
29) Tetrahydrofuran	7.17	42	202	0.207	ug/l #	48
31) Cyclohexane	7.62	56	2445	0.633	ug/l #	2
36) 1,1-Dichloropropene	7.63	75	18519	4.490	ug/l #	51
38) Carbon Tetrachloride	7.62	117	21913	4.738	ug/l #	16
43) Isopropyl Acetate	8.13	43	83937	12.419	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1760	0.553	ug/l #	44
48) Methyl methacrylate	9.15	41	5869	1.758	ug/l #	12
49) 1,4-Dioxane	9.23	88	116	2.444	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	7602	1.917	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	31889	6.289	ug/l #	66
56) Ethyl methacrylate	10.52	69	2629	0.635	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6080	1.230	ug/l #	43
59) 2-Hexanone	10.74	43	99866	33.895	ug/l #	53
74) N-amyl acetate	12.01	43	3757	2.902	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	106283	31.231	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	106283	89.951	ug/l #	6

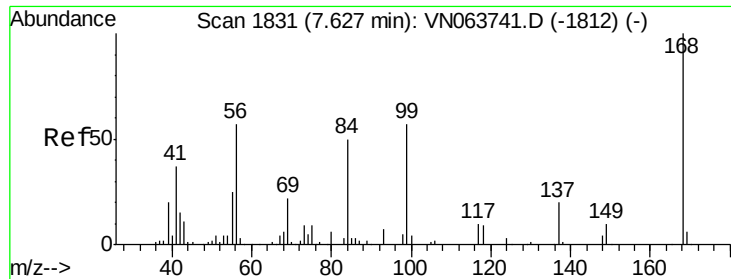
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064063.D

Acq: 10 Oct 2020 2:49

Instrument :

MSVOA_N

ClientSampleId :

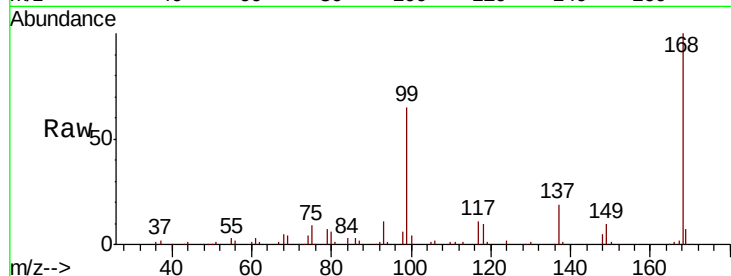
11929

Tot Ion:168 Resp: 201425

Ion Ratio Lower Upper

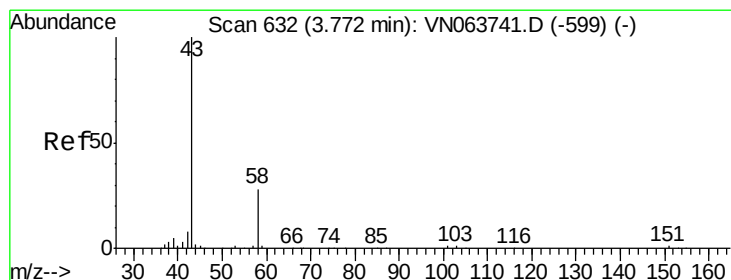
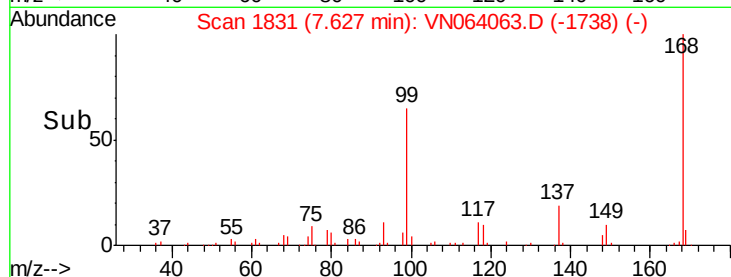
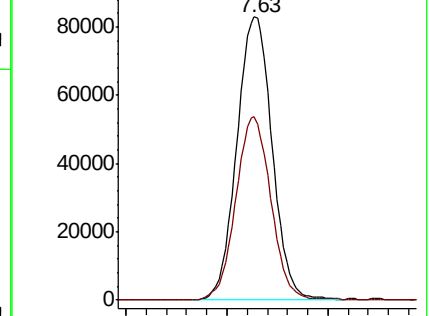
168 100

99 64.9 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 13.513 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064063.D

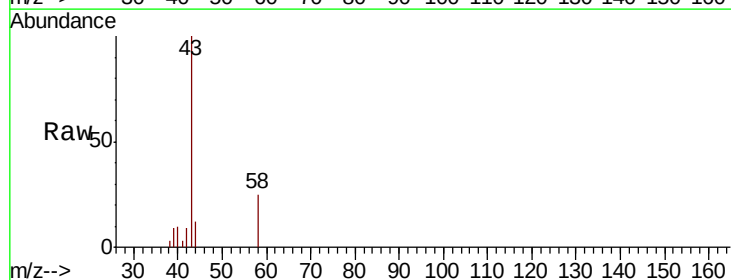
Acq: 10 Oct 2020 2:49

Tgt Ion: 43 Resp: 13842

Ion Ratio Lower Upper

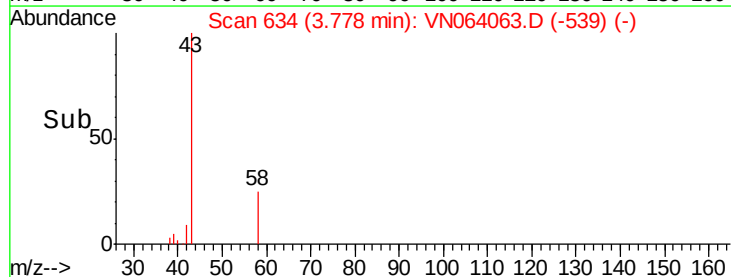
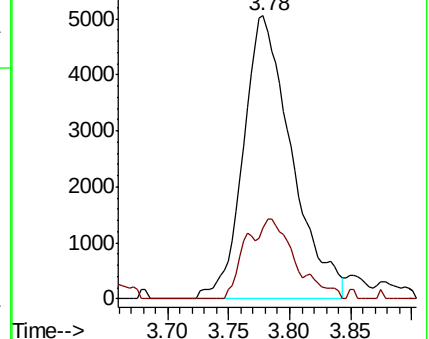
43 100

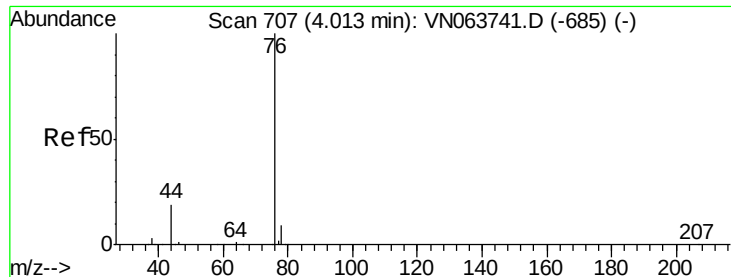
58 25.0 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#17

Carbon Disulfide

Concen: 0.778 ug/l

RT: 4.02 min Scan# 709

Delta R.T. 0.01 min

Lab File: VN064063.D

Acq: 10 Oct 2020 2:49

Instrument :

MSVOA_N

ClientSampled :

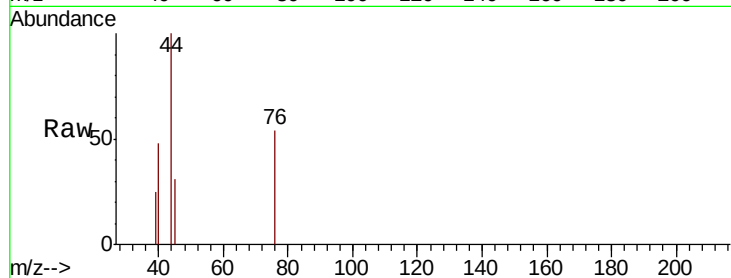
11929

Tot Ion: 76 Resp: 429

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

4.02

400

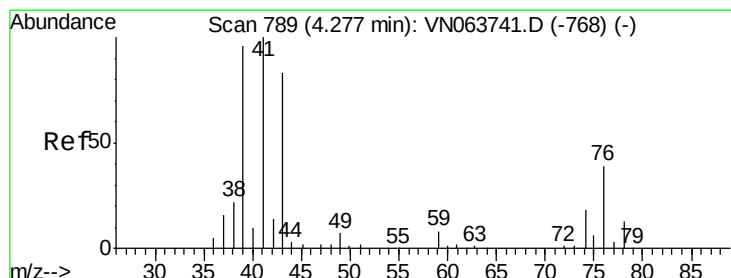
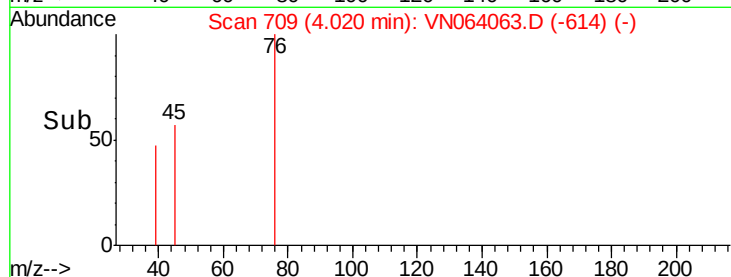
300

200

100

0

Time-->



#18

Methyl Acetate

Concen: 1.599 ug/l

RT: 4.29 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN064063.D

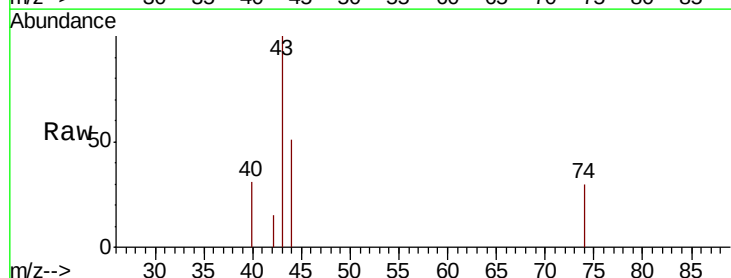
Acq: 10 Oct 2020 2:49

Tgt Ion: 43 Resp: 4252

Ion Ratio Lower Upper

43 100

74 14.1 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

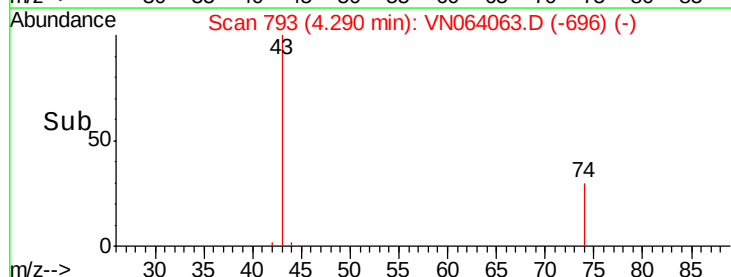
1500

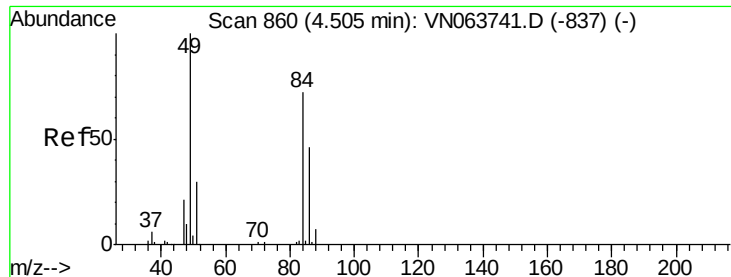
1000

500

0

Time-->

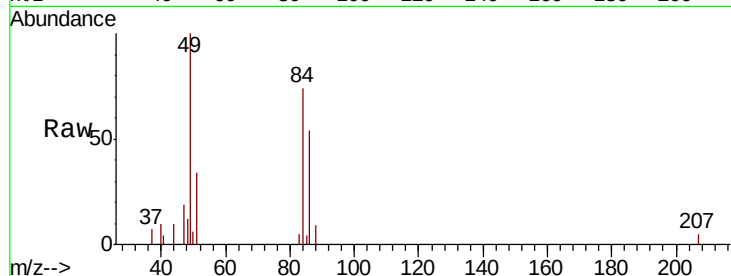




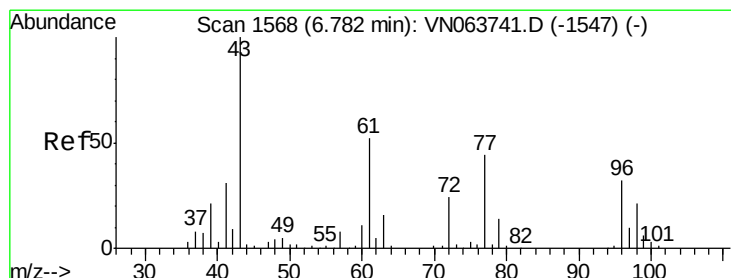
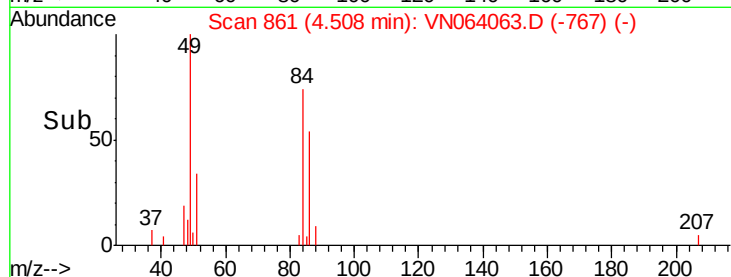
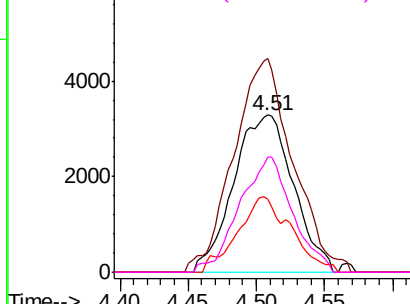
#20
Methvlene Chloride
Concen: 4.359 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN064063.D
Acq: 10 Oct 2020 2:49

Instrument :
MSVOA_N
ClientSampled :
11929

Tot Ion:	84	Resp:	10017
Ion	Ratio	Lower	Upper
84	100		
49	129.8	110.4	165.6
51	46.5	33.3	49.9
86	73.0	50.7	76.1

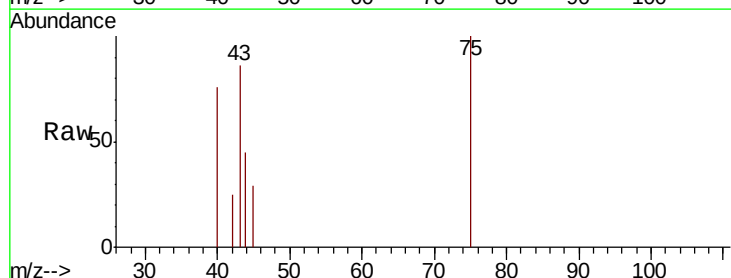


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

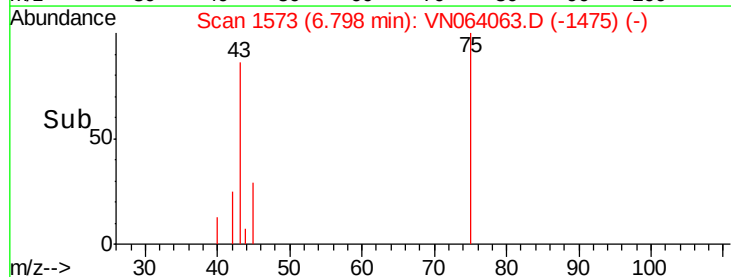
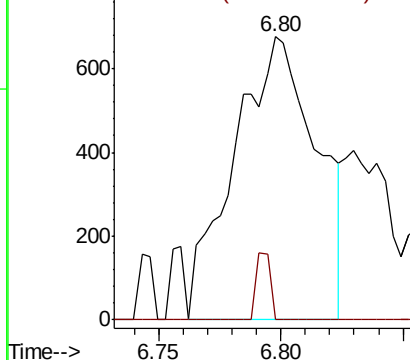


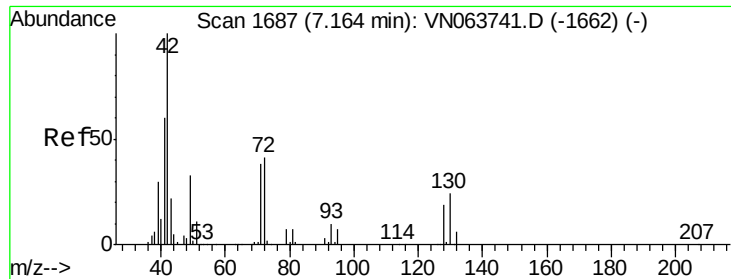
#25
2-Butanone
Concen: 1.096 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN064063.D
Acq: 10 Oct 2020 2:49

Tgt Ion:	43	Resp:	1591
Ion	Ratio	Lower	Upper
43	100		
72	0.0	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: 0.207 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN064063.D

Acq: 10 Oct 2020 2:49

Instrument :

MSVOA_N

ClientSampleId :

11929

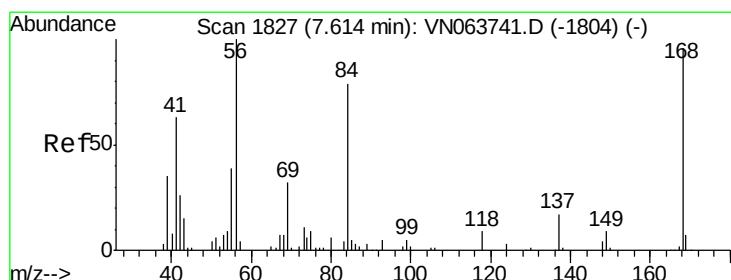
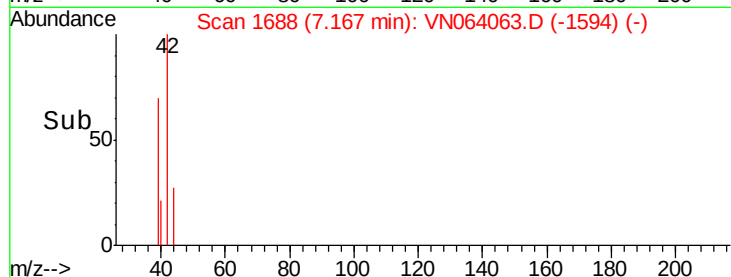
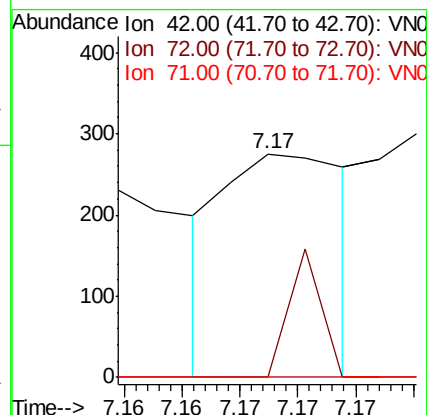
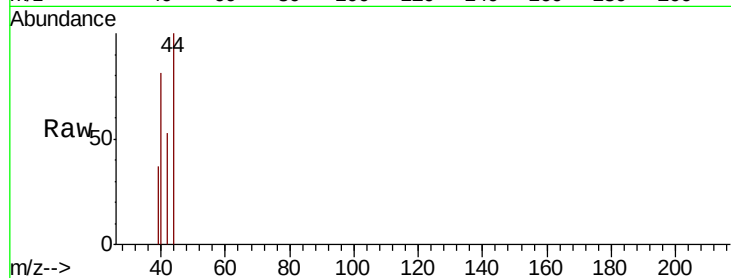
Tot Ion: 42 Resp: 202

Ion Ratio Lower Upper

42 100

72 15.3 32.8 49.2#

71 0.0 30.6 45.8#



#31

Cyclohexane

Concen: 0.633 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN064063.D

Acq: 10 Oct 2020 2:49

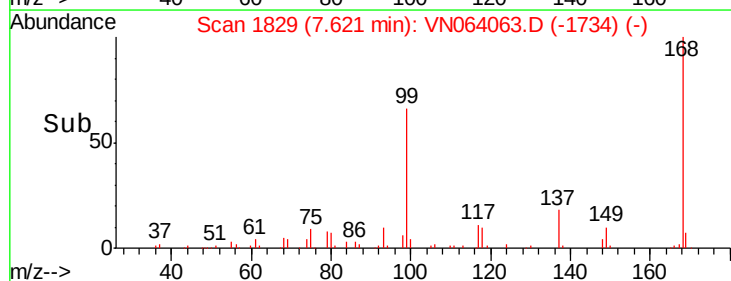
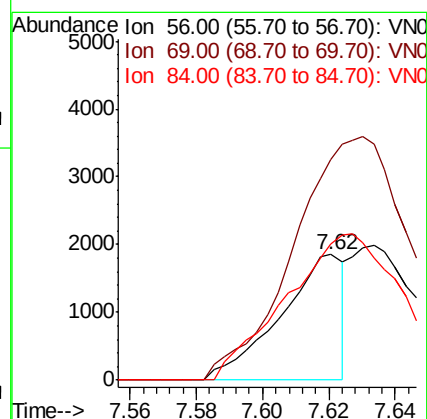
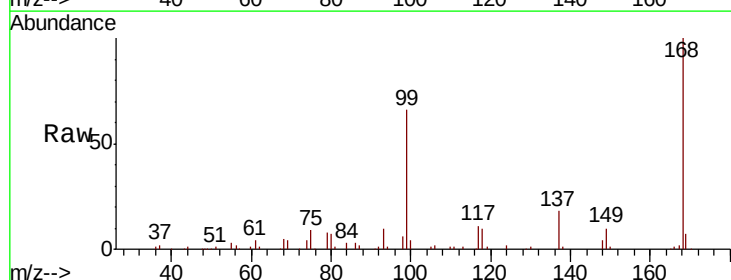
Tgt Ion: 56 Resp: 2445

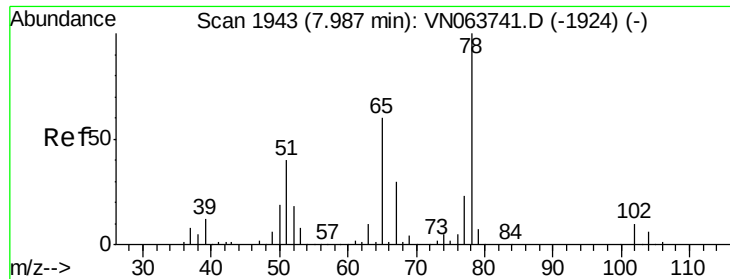
Ion Ratio Lower Upper

56 100

69 176.2 25.4 38.2#

84 108.4 63.3 94.9#

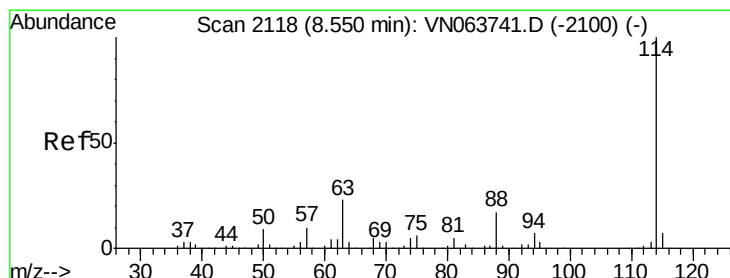
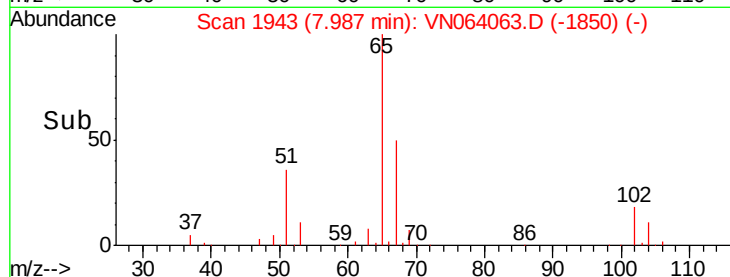
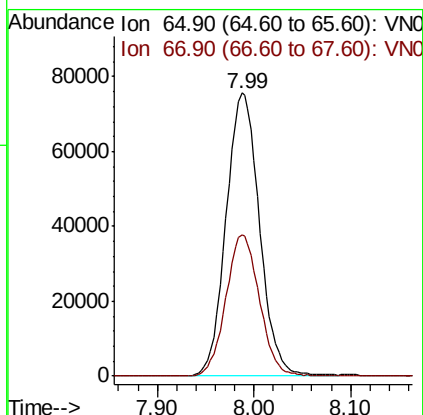
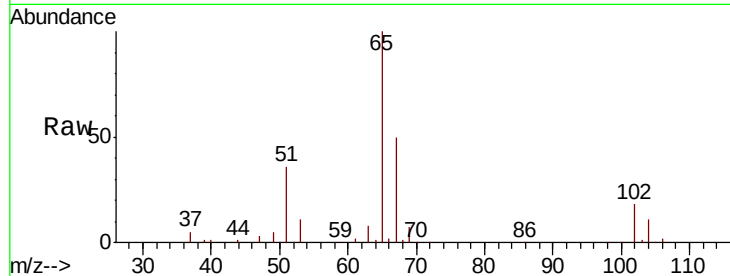




#33
 1,2-Dichloroethane-d4
 Concen: 54.620 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064063.D
 Acq: 10 Oct 2020 2:49

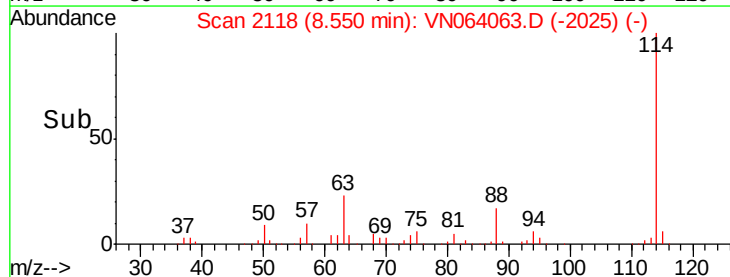
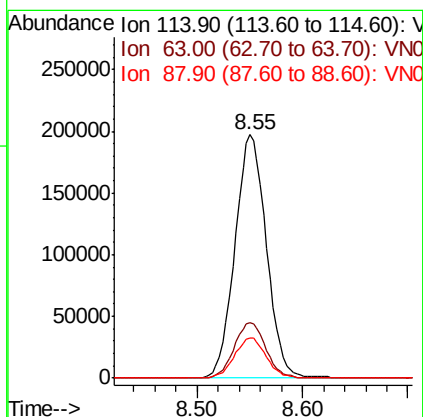
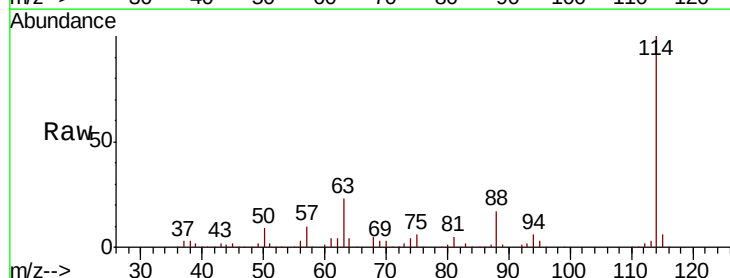
Instrument :
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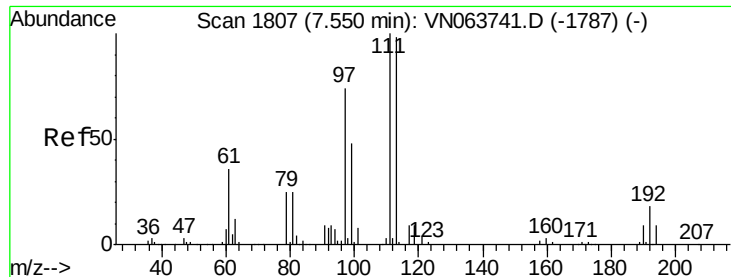
Tot Ion: 65 Resp: 181758
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064063.D
 Acq: 10 Oct 2020 2:49

Tgt Ion: 114 Resp: 407086
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 45.0
 88 16.7 0.0 34.0

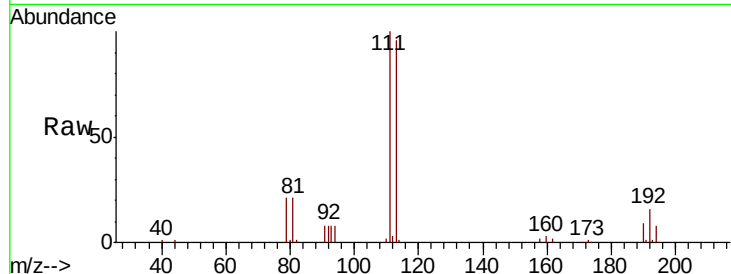




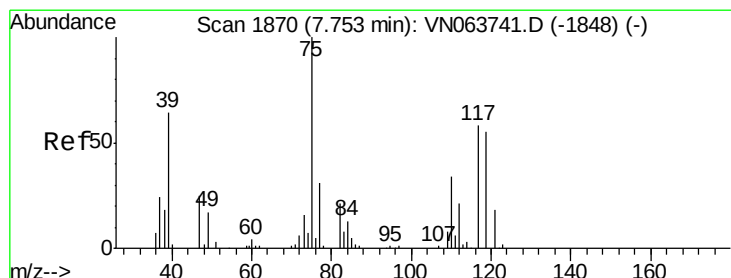
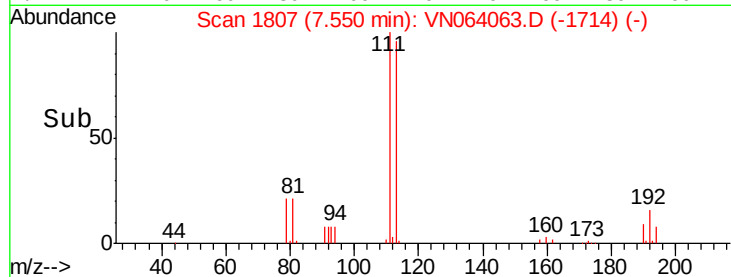
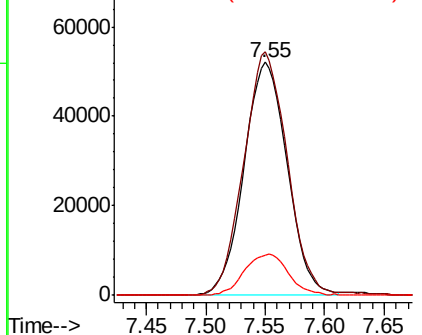
#35
Dibromofluoromethane
Concen: 46.517 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064063.D
Acq: 10 Oct 2020 2:49

Instrument :
MSVOA_N
ClientSampleId :
11929

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.3	81.8	122.8
192	18.0	14.2	21.2

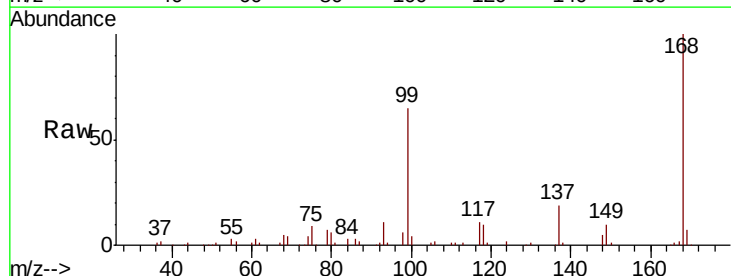


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

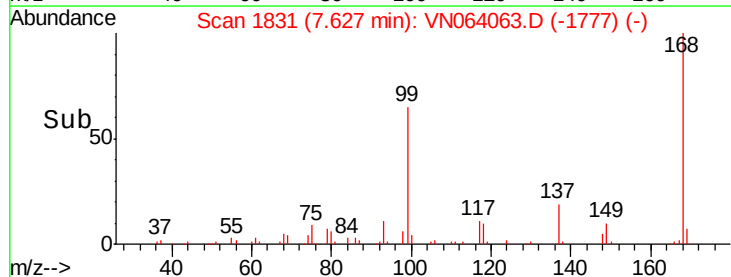
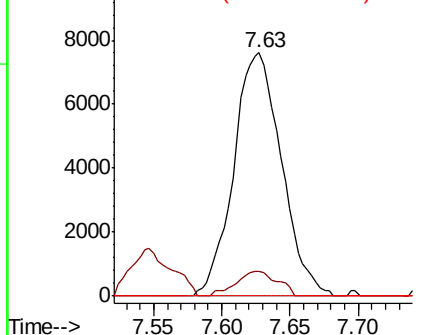


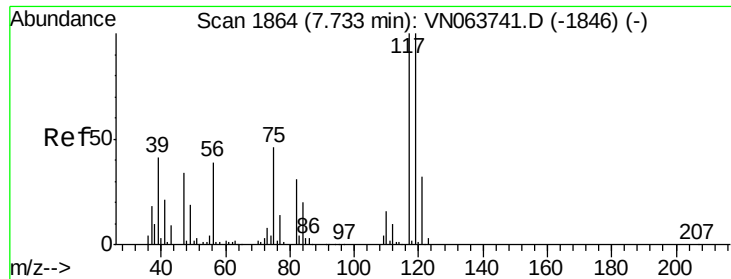
#36
1,1-Dichloropropene
Concen: 4.490 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.13 min
Lab File: VN064063.D
Acq: 10 Oct 2020 2:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	16.9	50.6#
77	0.0	24.5	36.7#



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





#38

Carbon Tetrachloride

Concen: 4.738 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064063.D

Acq: 10 Oct 2020 2:49

Instrument :

MSVOA_N

ClientSampled :

11929

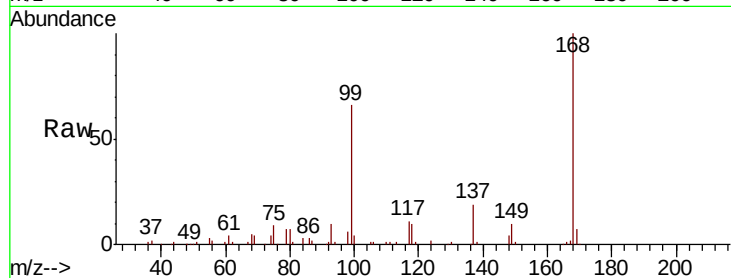
Tot Ion:117 Resp: 21913

Ion Ratio Lower Upper

117 100

119 7.4 80.1 120.1#

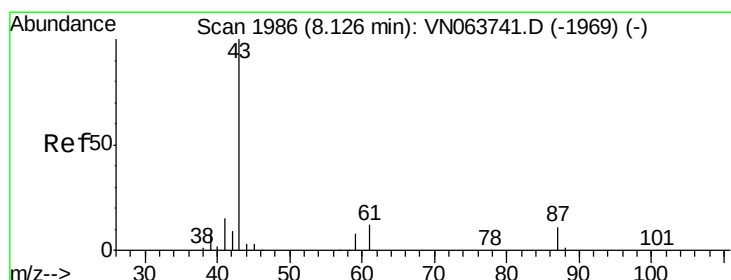
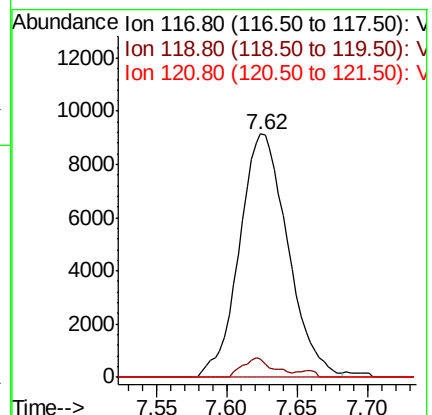
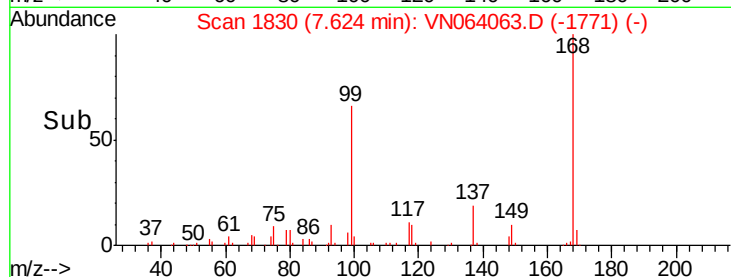
121 0.0 25.7 38.5#



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: 12.419 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064063.D

Acq: 10 Oct 2020 2:49

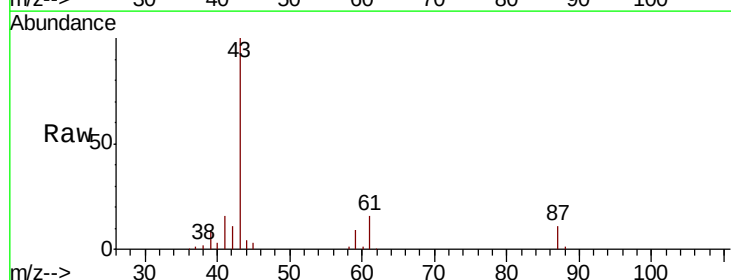
Tgt Ion: 43 Resp: 83937

Ion Ratio Lower Upper

43 100

61 18.1 14.2 21.4

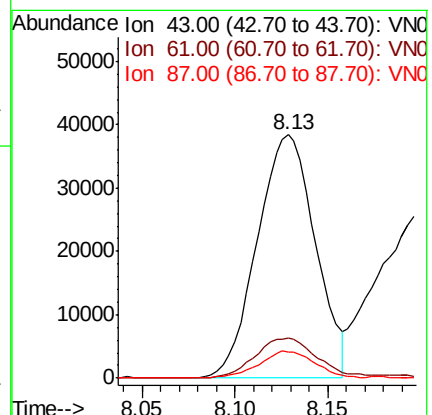
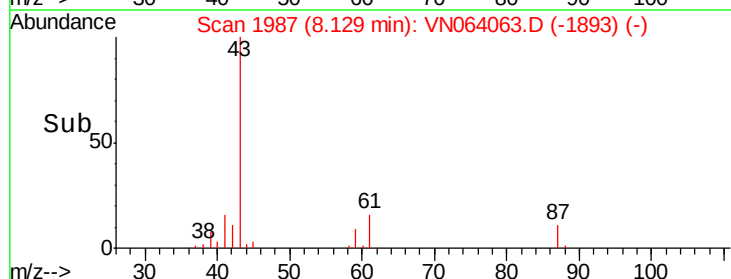
87 10.6 9.0 13.6

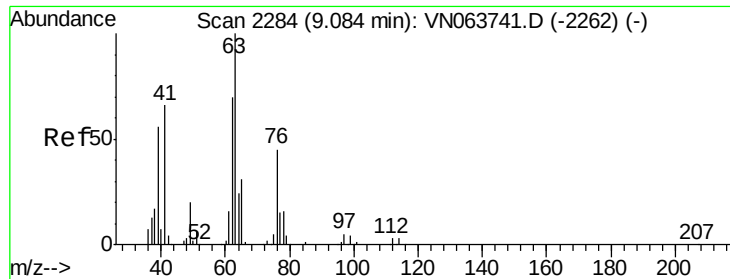


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

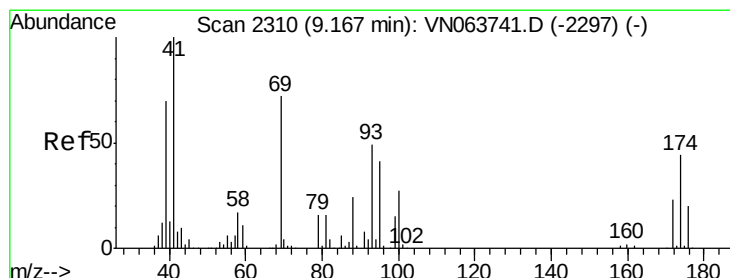
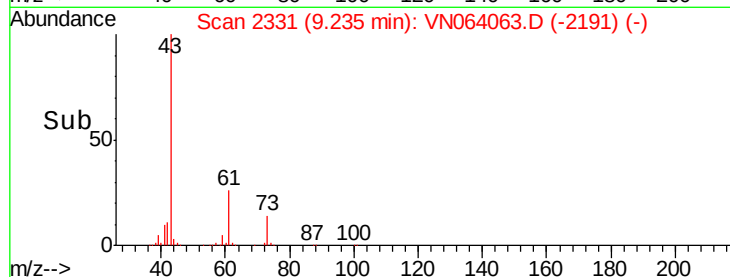
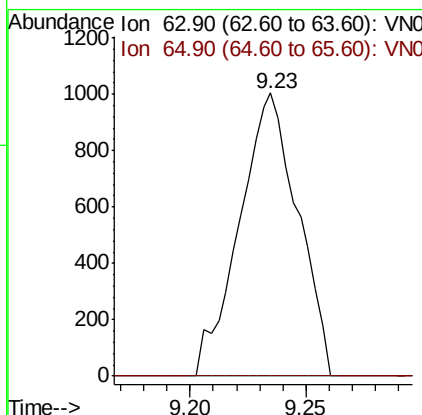
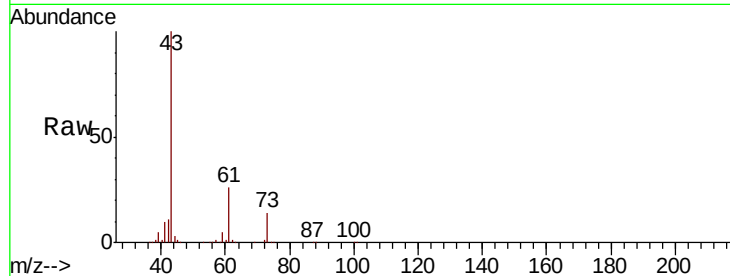




#45
 1,2-Dichloropropane
 Concen: 0.553 ug/l
 RT: 9.23 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN064063.D
 Acq: 10 Oct 2020 2:49

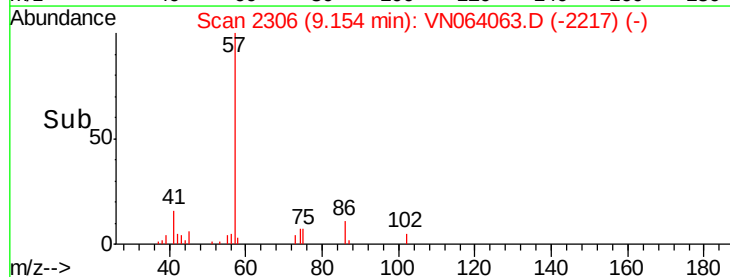
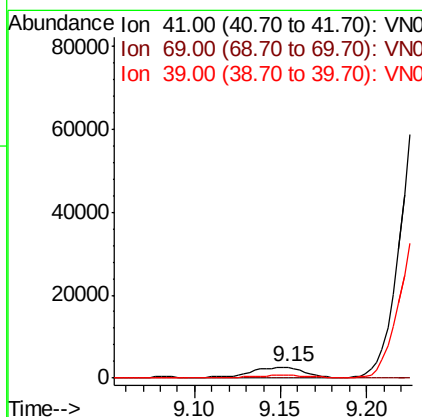
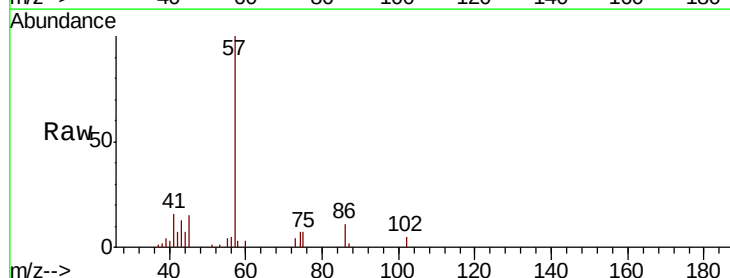
Instrument :
 MSVOA_N
 ClientSampleId :
 11929

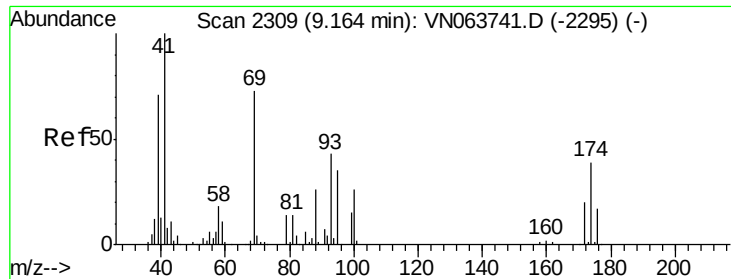
Tot Ion: 63 Resp: 1760
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.7 37.1#



#48
 Methyl methacrylate
 Concen: 1.758 ug/l
 RT: 9.15 min Scan# 2306
 Delta R.T. -0.01 min
 Lab File: VN064063.D
 Acq: 10 Oct 2020 2:49

Tgt Ion: 41 Resp: 5869
 Ion Ratio Lower Upper
 41 100
 69 0.0 60.9 91.3#
 39 0.0 57.5 86.3#





#49

1,4-Dioxane

Concen: 2.444 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN064063.D

Acq: 10 Oct 2020 2:49

Instrument :

MSVOA_N

ClientSampleId :

11929

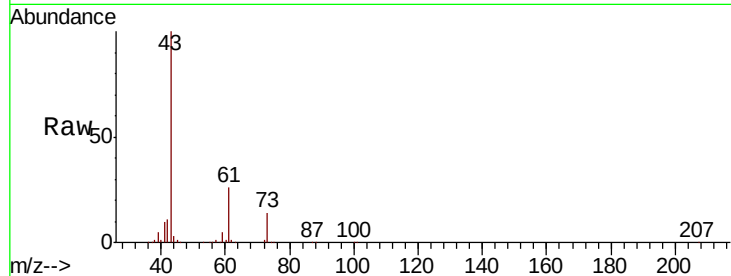
Tot Ion: 88 Resp: 116

Ion Ratio Lower Upper

88 100

43 1367876.7 33.1 49.7#

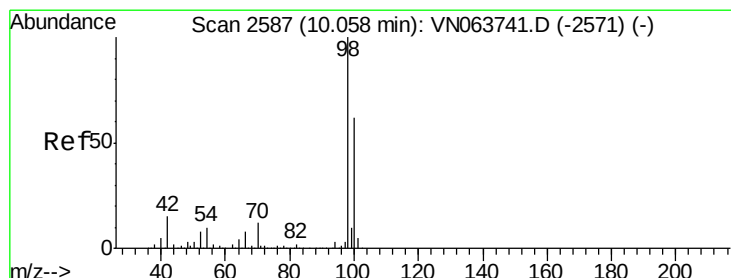
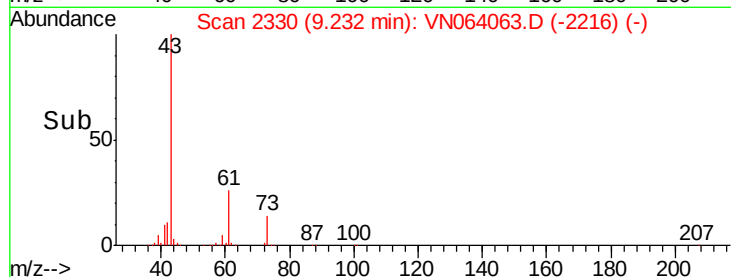
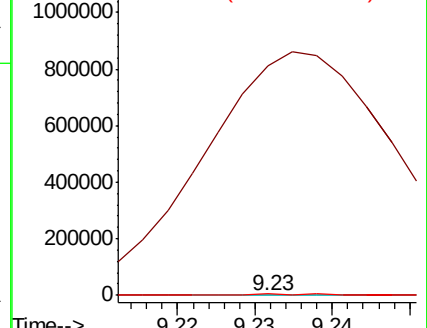
58 6994.8 58.9 88.3#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 47.938 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064063.D

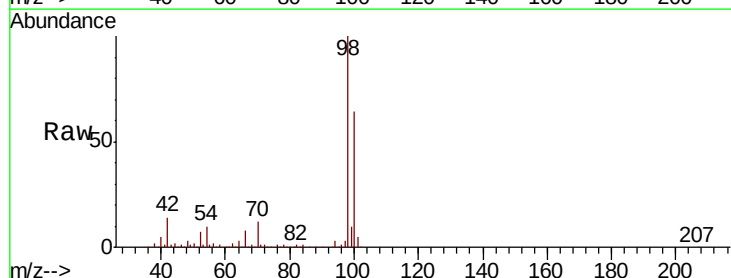
Acq: 10 Oct 2020 2:49

Tgt Ion: 98 Resp: 513317

Ion Ratio Lower Upper

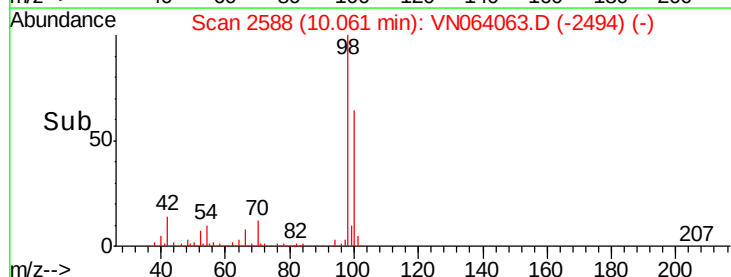
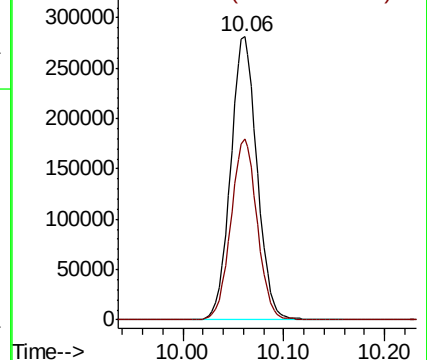
98 100

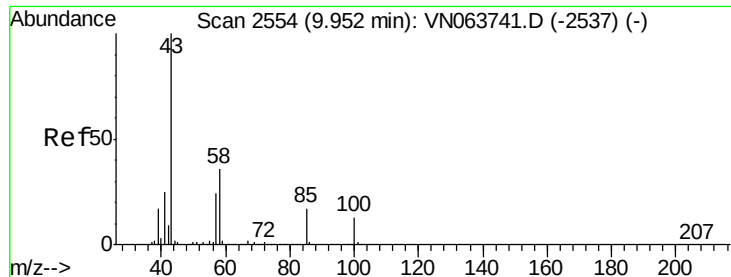
100 63.6 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

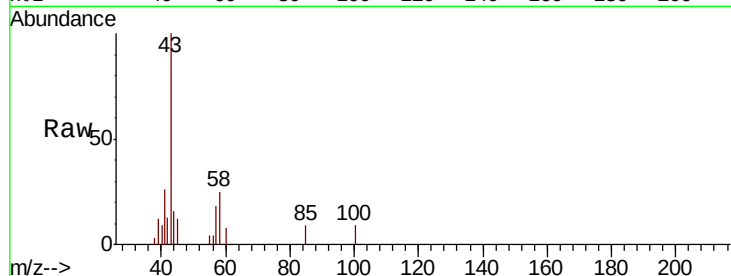




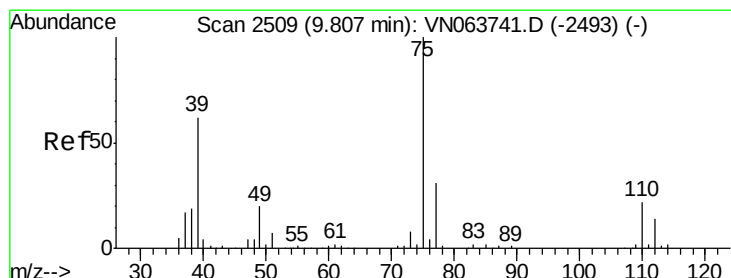
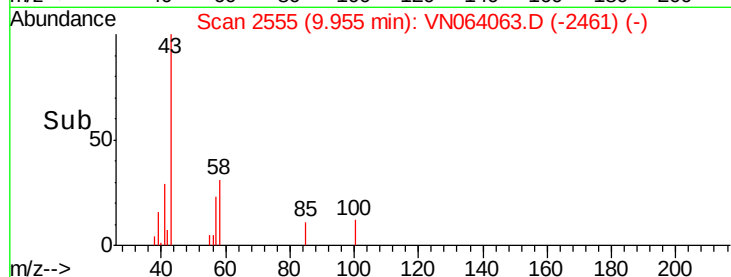
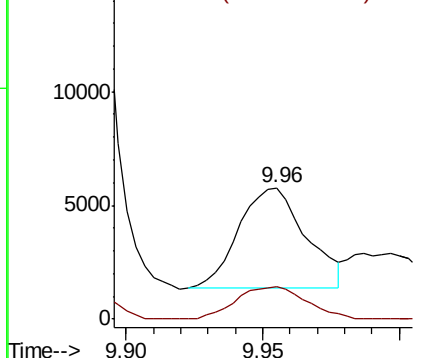
#51
 4-Methyl-2-Pentanone
 Concen: 1.917 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN064063.D
 Acq: 10 Oct 2020 2:49

Instrument :
 MSVOA_N
 ClientSampled :
 11929

Tot Ion: 43 Resp: 7602
 Ion Ratio Lower Upper
 43 100
 58 33.5 28.4 42.6

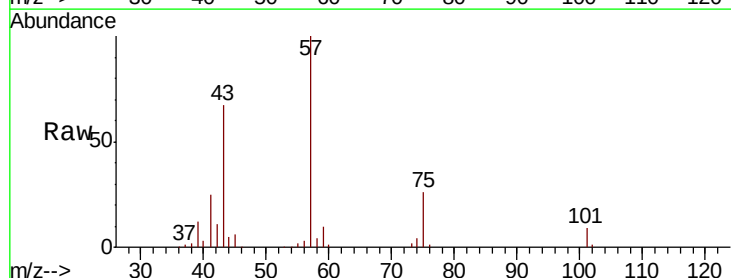


Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

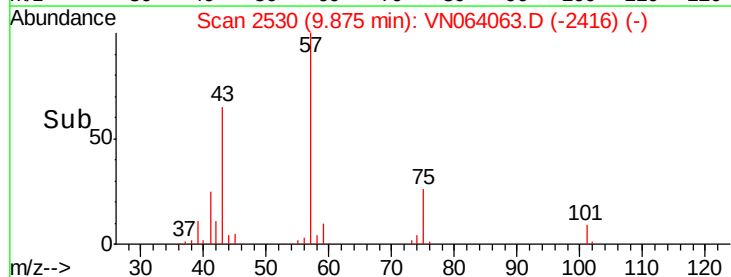
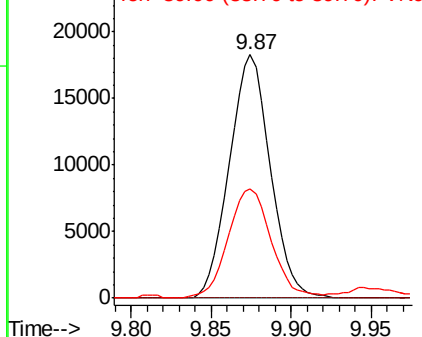


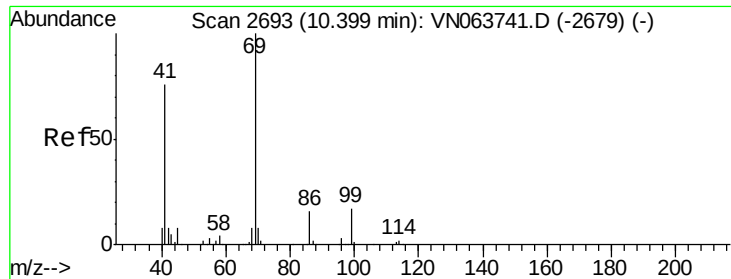
#54
 cis-1,3-Dichloropropene
 Concen: 6.289 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064063.D
 Acq: 10 Oct 2020 2:49

Tgt Ion: 75 Resp: 31889
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 44.1 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: 0.635 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN064063.D

Acq: 10 Oct 2020 2:49

Instrument :

MSVOA_N

ClientSampled :

11929

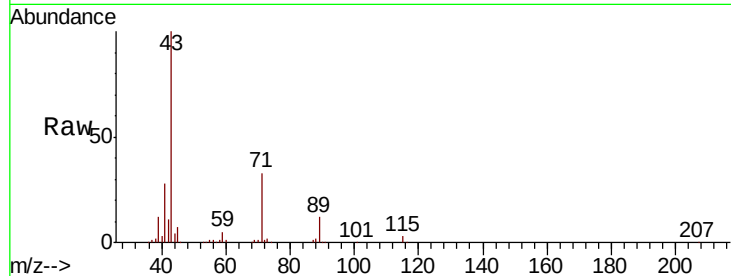
Tot Ion: 69 Resp: 2629

Ion Ratio Lower Upper

69 100

41 3310.2 61.1 91.7#

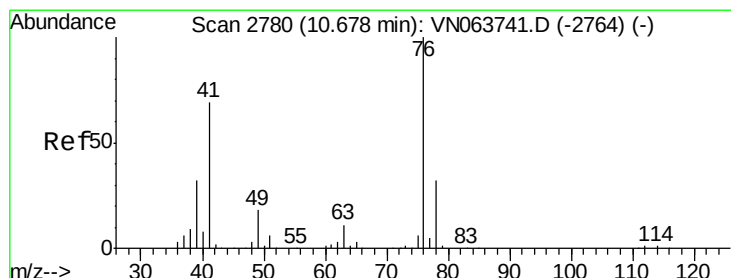
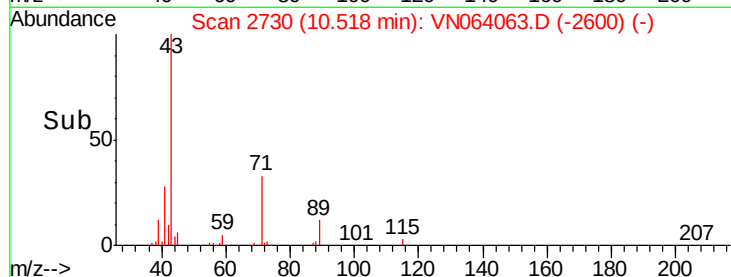
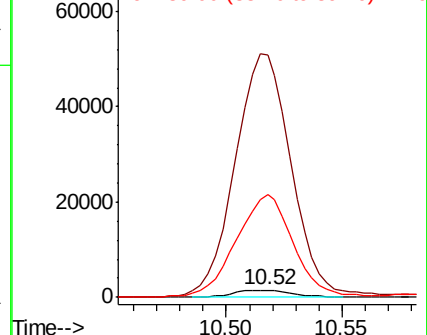
39 1409.9 42.2 63.4#



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: 1.230 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064063.D

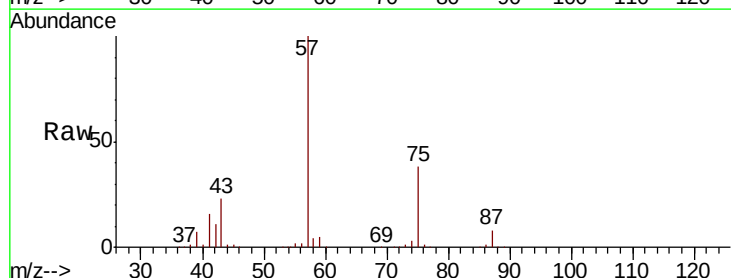
Acq: 10 Oct 2020 2:49

Tgt Ion: 76 Resp: 6080

Ion Ratio Lower Upper

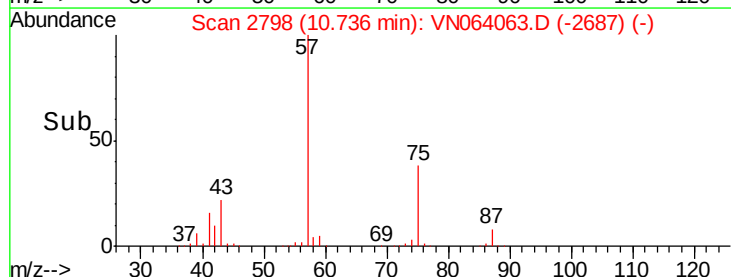
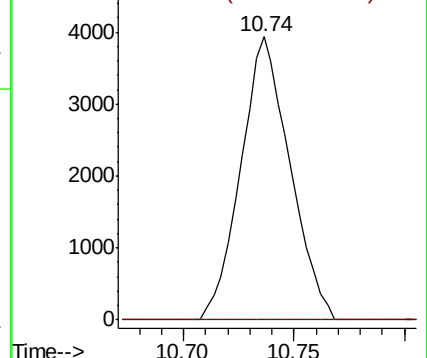
76 100

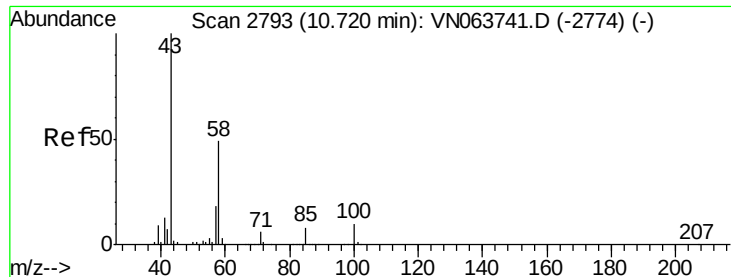
78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

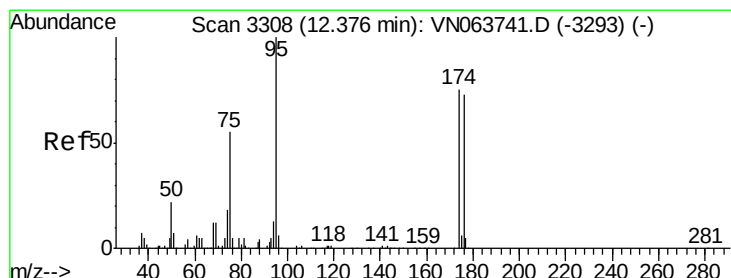
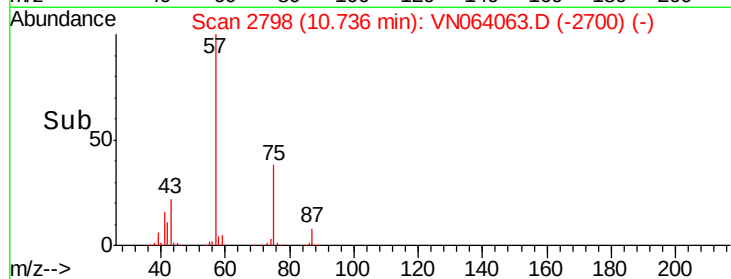
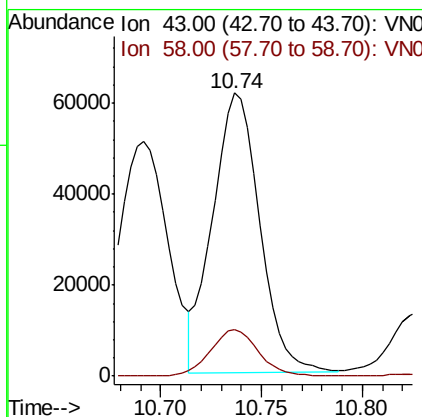
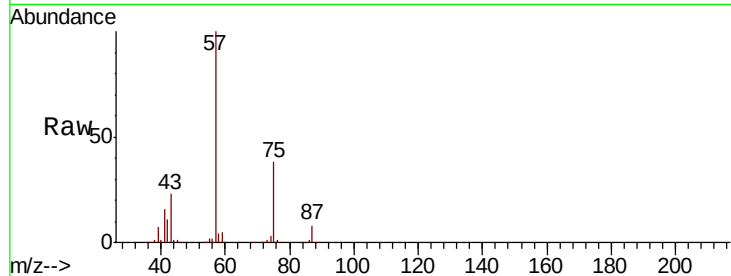




#59
2-Hexanone
Concen: 33.895 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN064063.D
Acq: 10 Oct 2020 2:49

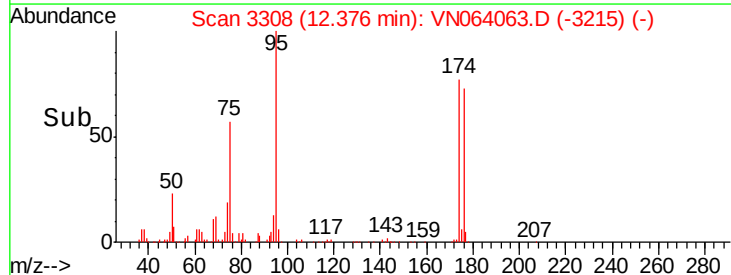
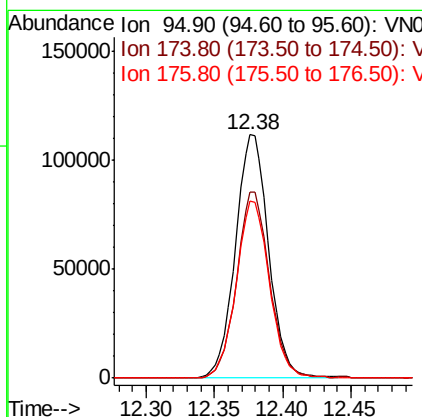
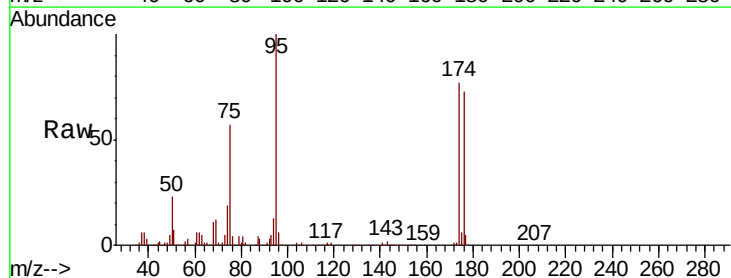
Instrument :
MSVOA_N
ClientSampleId :
11929

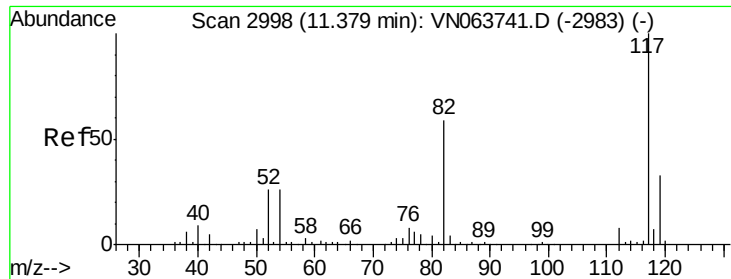
Tot Ion: 43 Resp: 99866
Ion Ratio Lower Upper
43 100
58 17.1 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 47.034 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064063.D
Acq: 10 Oct 2020 2:49

Tgt Ion: 95 Resp: 189323
Ion Ratio Lower Upper
95 100
174 75.8 0.0 150.6
176 72.7 0.0 145.4

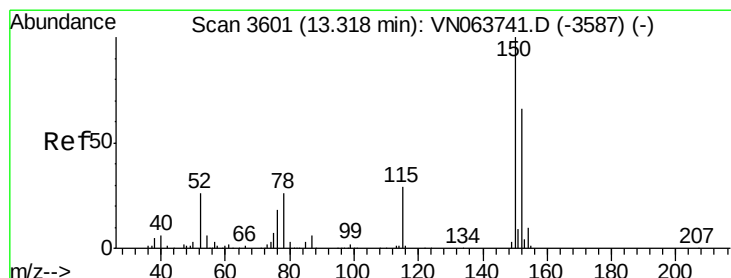
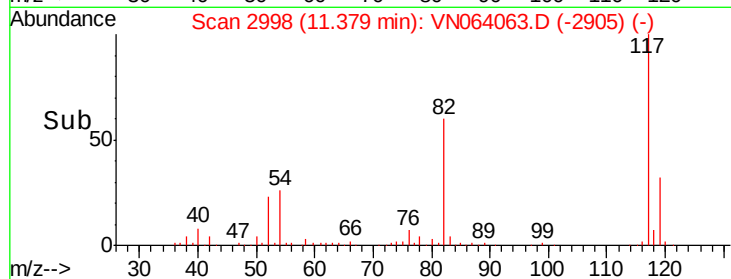
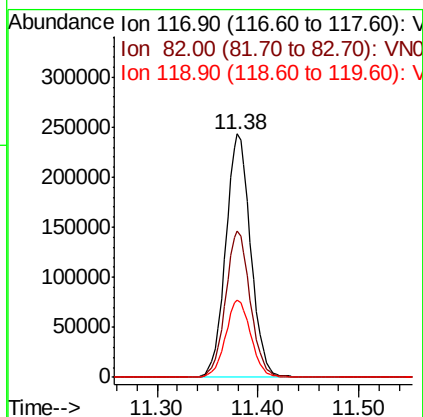
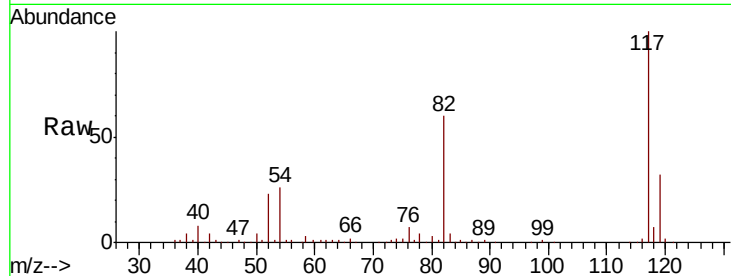




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064063.D
Acq: 10 Oct 2020 2:49

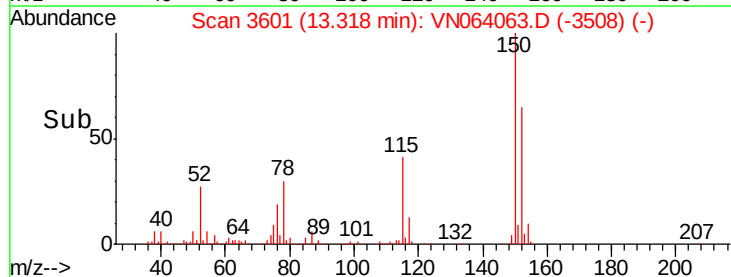
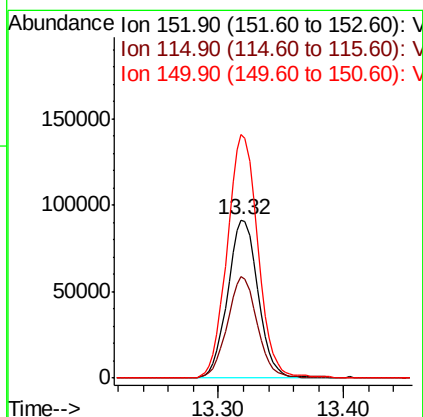
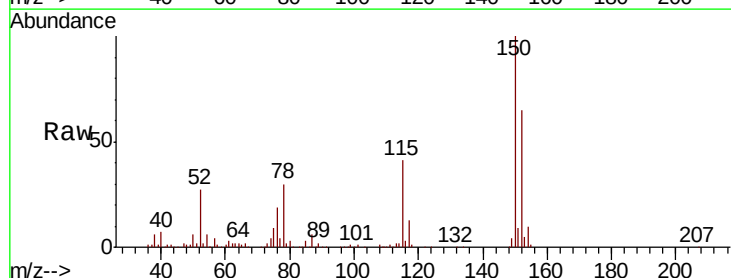
Instrument :
MSVOA_N
ClientSampled :
11929

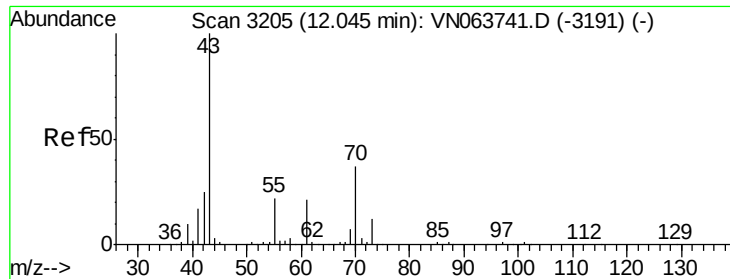
Tot Ion:117 Resp: 419202
Ion Ratio Lower Upper
117 100
82 60.3 47.4 71.2
119 32.0 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064063.D
Acq: 10 Oct 2020 2:49

Tgt Ion:152 Resp: 154378
Ion Ratio Lower Upper
152 100
115 62.8 31.3 93.8
150 155.1 0.0 341.8

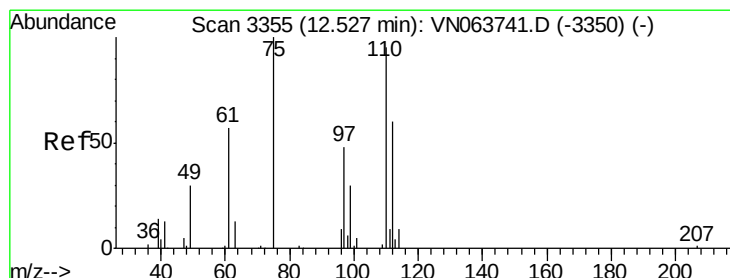
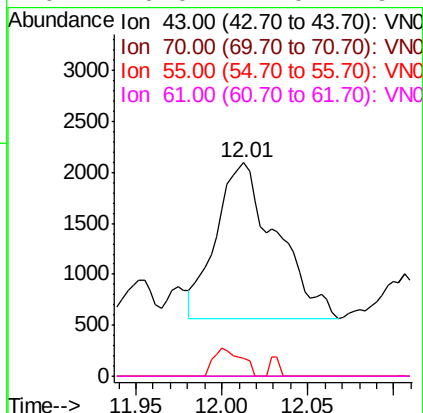
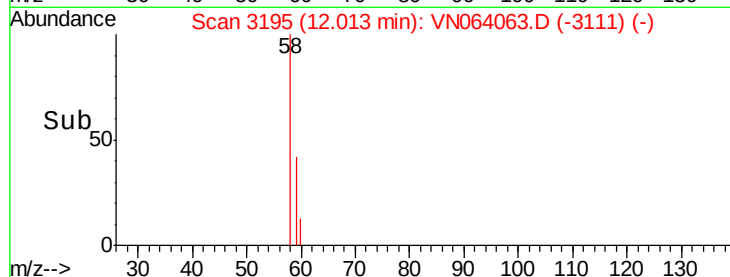
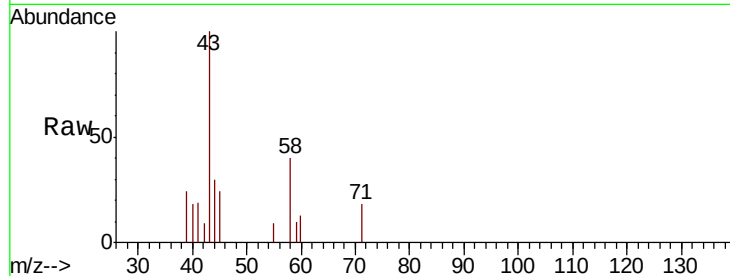




#74
N-amvl acetate
Concen: 2.902 ug/l
RT: 12.01 min Scan# 3195
Delta R.T. -0.03 min
Lab File: VN064063.D
Acq: 10 Oct 2020 2:49

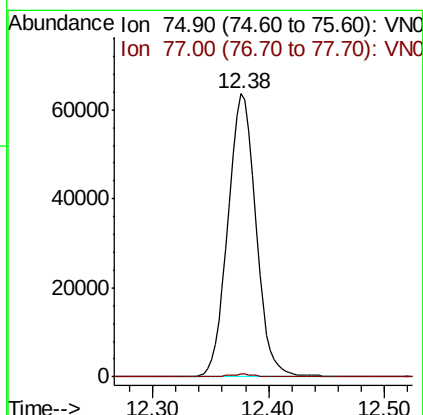
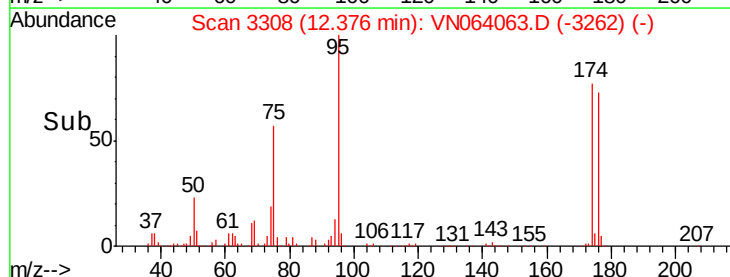
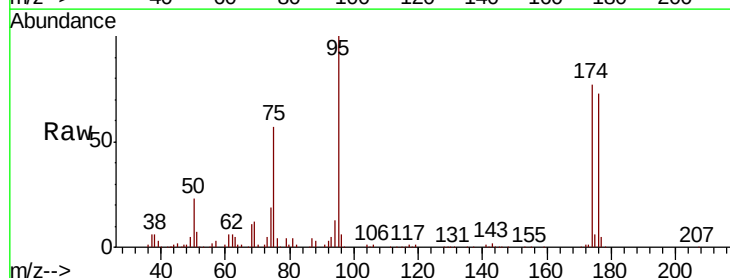
Instrument :
MSVOA_N
ClientSampled :
11929

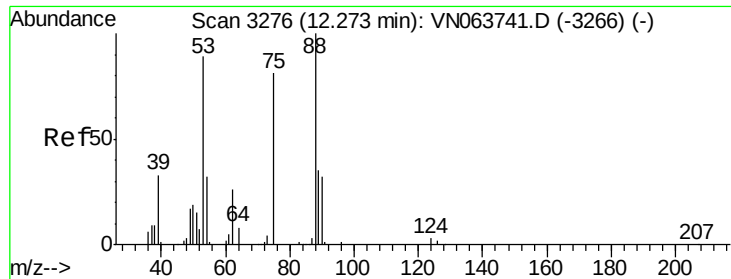
Tot Ion: 43 Resp: 3757
Ion Ratio Lower Upper
43 100
70 0.0 29.8 44.8#
55 8.4 17.9 26.9#
61 0.0 17.0 25.4#



#76
1,2,3-Trichloropropane
Concen: 31.231 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN064063.D
Acq: 10 Oct 2020 2:49

Tgt Ion: 75 Resp: 106283
Ion Ratio Lower Upper
75 100
77 0.9 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 89.951 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064063.D

Acq: 10 Oct 2020 2:49

Instrument :

MSVOA_N

ClientSampleId :

11929

Tot Ion: 75 Resp: 106283

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

89 0.0 36.0 54.0#

