

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100920\
 Data File : VN064064.D
 Acq On : 10 Oct 2020 3:13
 Operator : JC/MD
 Sample : L4316-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 26414

Quant Time: Oct 10 04:43:17 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	204924	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	407474	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	416011	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	161979	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	180184	53.22	ug/l	0.00
Spiked Amount			Recovery	=	106.44%	
35) Dibromofluoromethane	7.55	113	132433	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
50) Toluene-d8	10.06	98	517308	48.26	ug/l	0.00
Spiked Amount			Recovery	=	96.52%	
62) 4-Bromofluorobenzene	12.38	95	193589	48.05	ug/l	0.00
Spiked Amount			Recovery	=	96.10%	

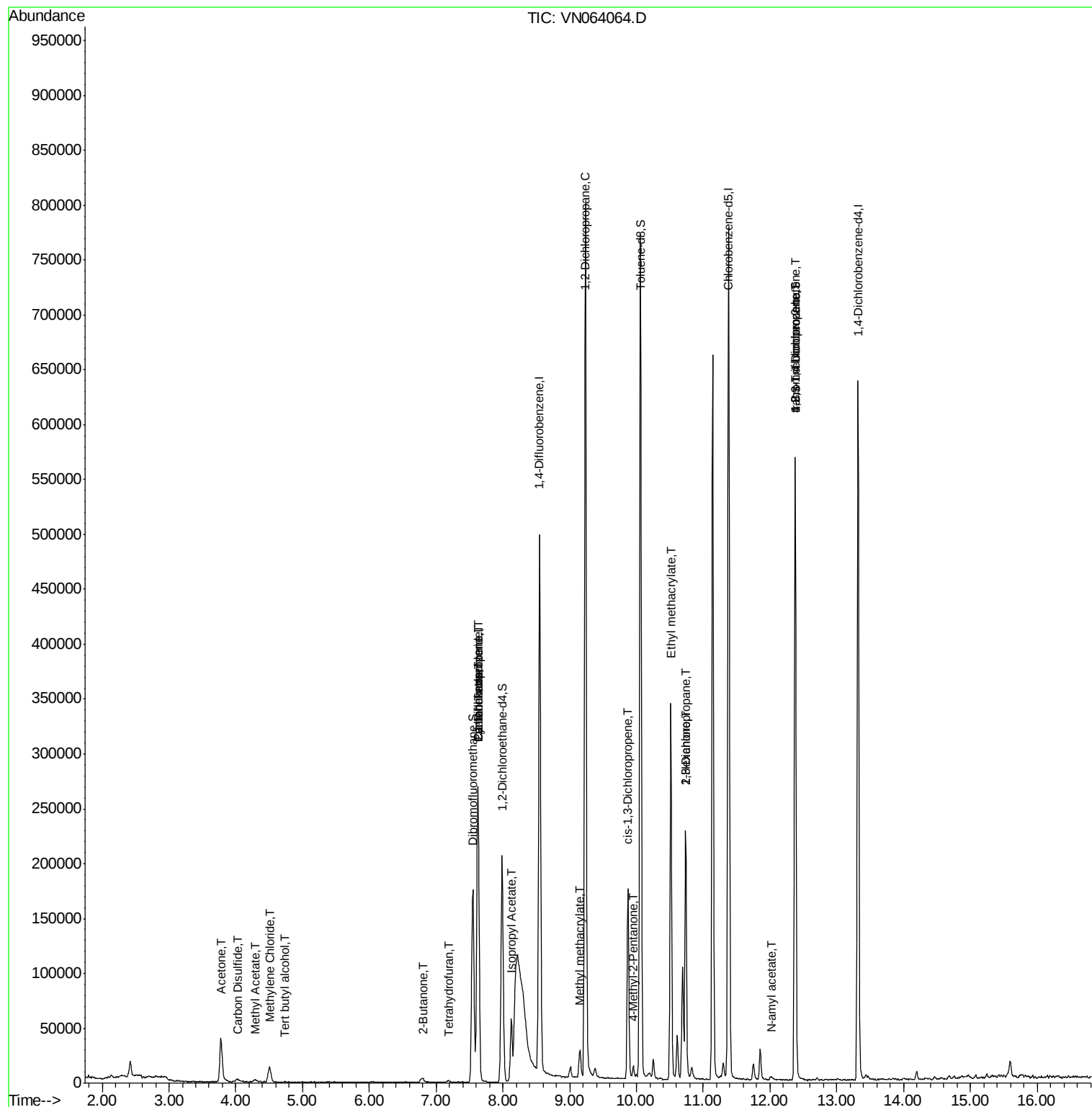
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	294	0.787	ug/l #	71
16) Acetone	3.78	43	67958	65.209	ug/l	100
17) Carbon Disulfide	4.02	76	185	0.733	ug/l #	76
18) Methyl Acetate	4.29	43	4662	1.723	ug/l #	61
20) Methylene Chloride	4.51	84	9549	4.090	ug/l	94
25) 2-Butanone	6.80	43	5093	3.447	ug/l	93
29) Tetrahydrofuran	7.18	42	1100	1.110	ug/l #	42
31) Cyclohexane	7.63	56	5537	1.409	ug/l #	37
36) 1,1-Dichloropropene	7.62	75	17579	4.258	ug/l #	51
38) Carbon Tetrachloride	7.63	117	22479	4.856	ug/l #	15
43) Isopropyl Acetate	8.13	43	67291	9.947	ug/l	97
45) 1,2-Dichloropropane	9.24	63	933	0.293	ug/l #	44
48) Methyl methacrylate	9.14	41	5904	1.766	ug/l #	28
51) 4-Methyl-2-Pentanone	9.95	43	6112	1.540	ug/l #	81
54) cis-1,3-Dichloropropene	9.87	75	26960	5.312	ug/l #	68
56) Ethyl methacrylate	10.51	69	2385	0.575	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2220	0.449	ug/l #	43
59) 2-Hexanone	10.74	43	36988	12.542	ug/l #	57
74) N-amyl acetate	12.02	43	2691	2.684	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	106612	29.858	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	106612	85.995	ug/l #	6

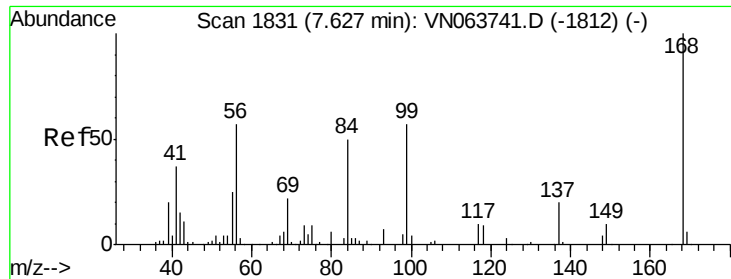
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064064.D

Acq: 10 Oct 2020 3:13

Instrument :

MSVOA_N

ClientSampleId :

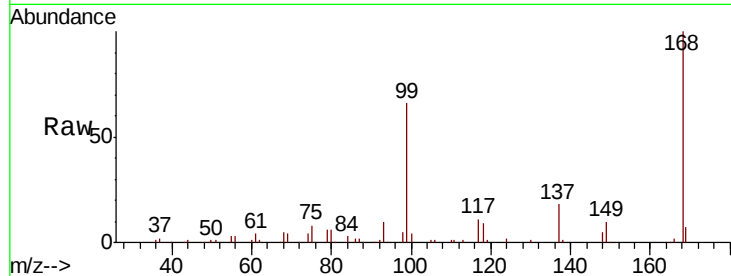
26414

Tot Ion:168 Resp: 204924

Ion Ratio Lower Upper

168 100

99 65.7 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) (-)

7.63

80000

60000

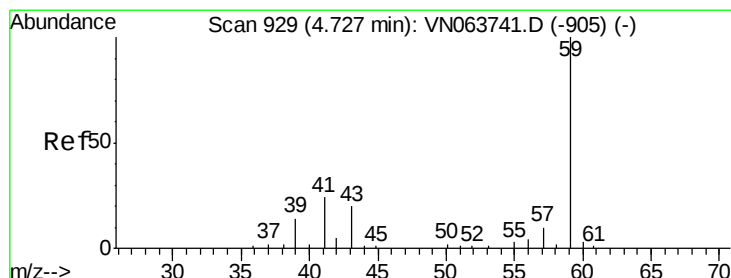
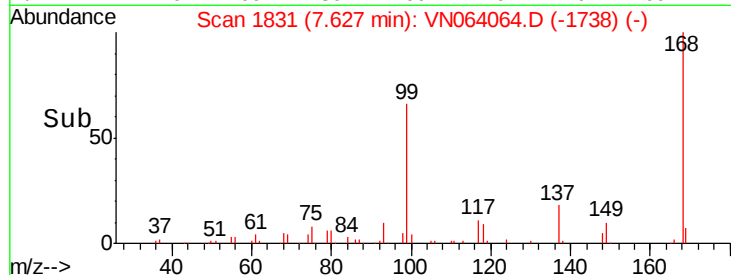
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.787 ug/l

RT: 4.73 min Scan# 931

Delta R.T. 0.01 min

Lab File: VN064064.D

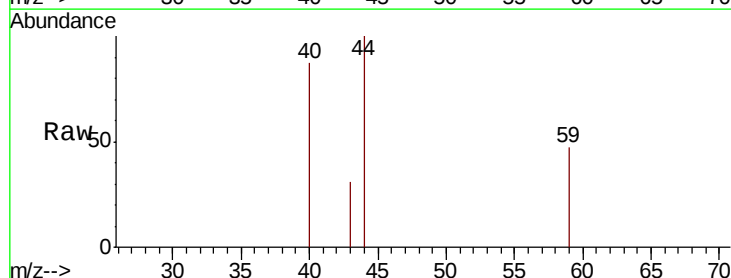
Acq: 10 Oct 2020 3:13

Tgt Ion: 59 Resp: 294

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) (-)

4.73

250

200

150

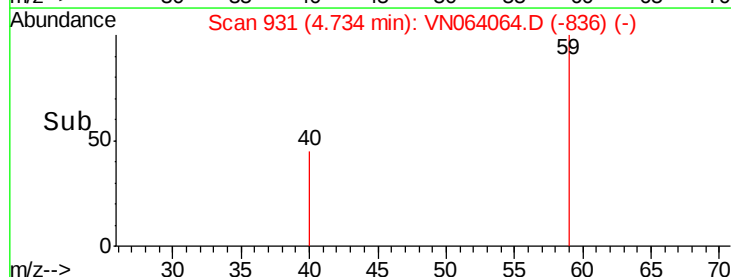
100

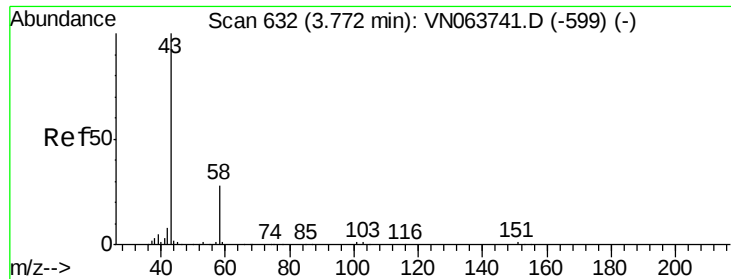
50

0

4.72 4.74 4.76

Time-->





#16

Acetone

Concen: 65.209 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN064064.D

Acq: 10 Oct 2020 3:13

Instrument :

MSVOA_N

ClientSampleId :

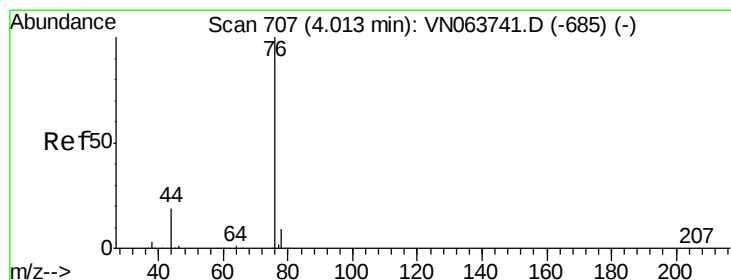
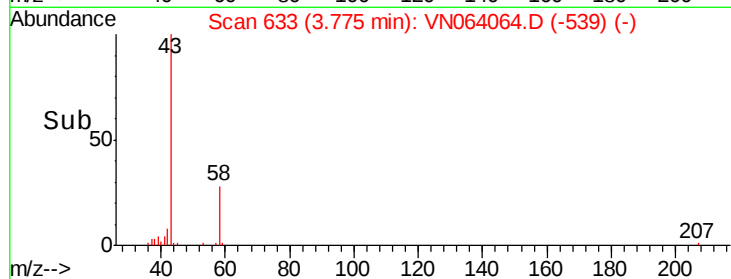
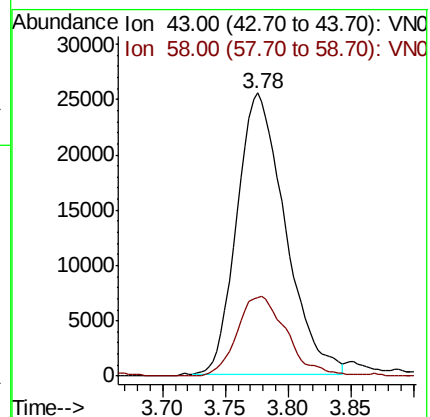
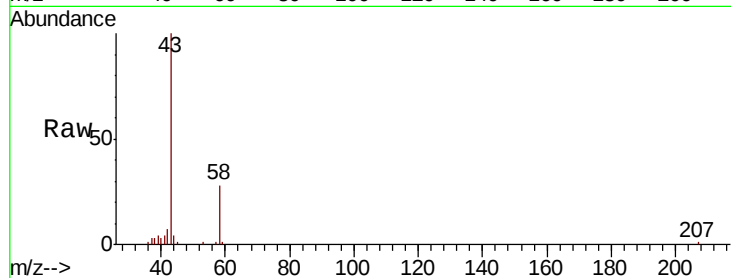
26414

Tot Ion: 43 Resp: 67958

Ion Ratio Lower Upper

43 100

58 28.0 22.3 33.5



#17

Carbon Disulfide

Concen: 0.733 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN064064.D

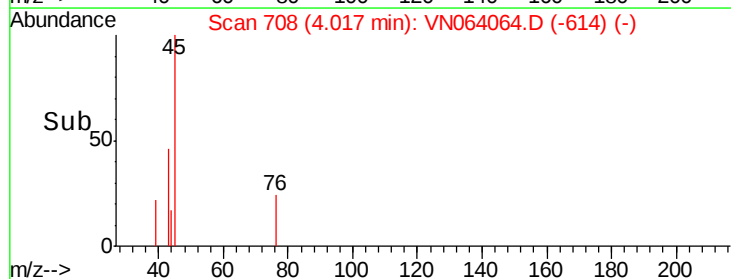
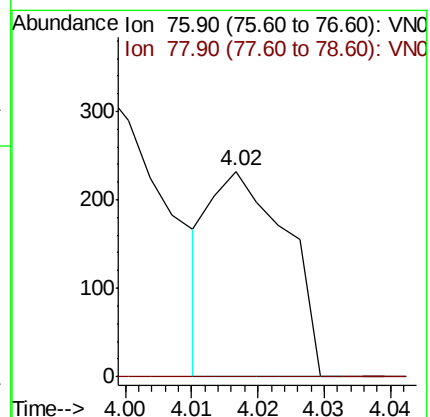
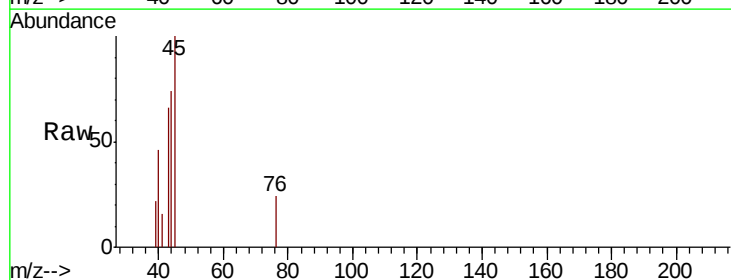
Acq: 10 Oct 2020 3:13

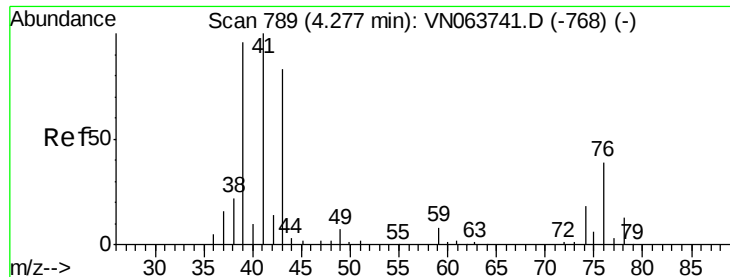
Tgt Ion: 76 Resp: 185

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#

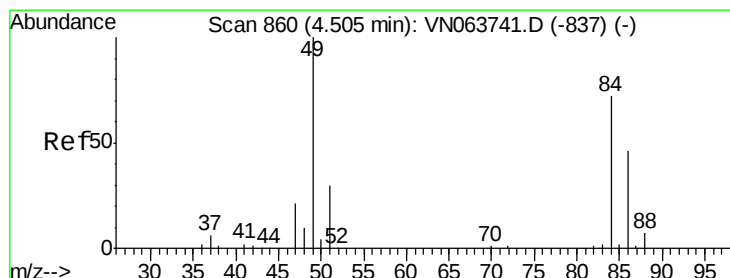
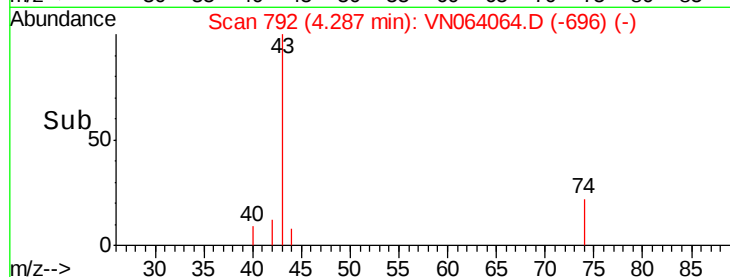
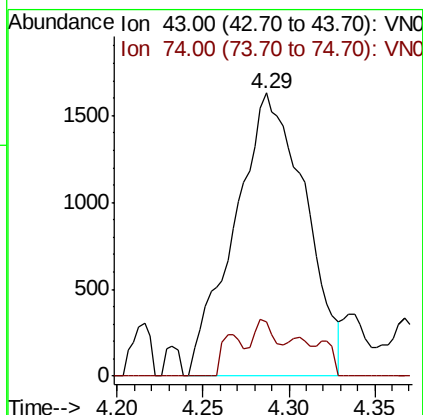
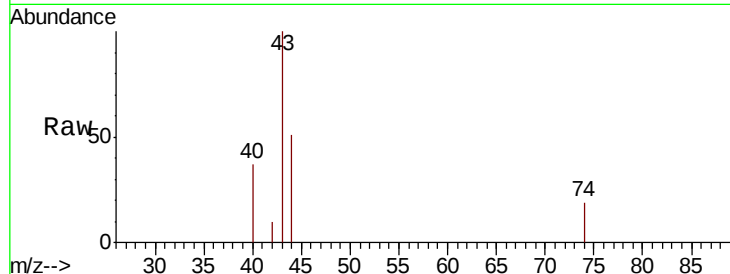




#18
Methyl Acetate
Concen: 1.723 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN064064.D
Acq: 10 Oct 2020 3:13

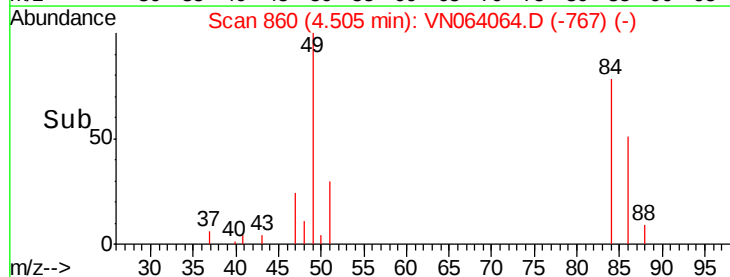
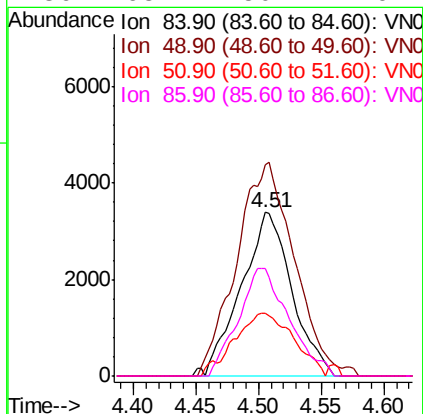
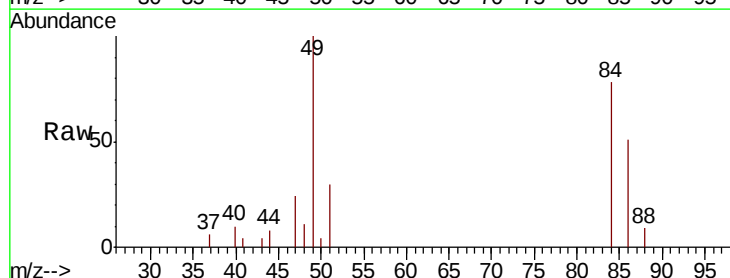
Instrument :
MSVOA_N
ClientSampled :
26414

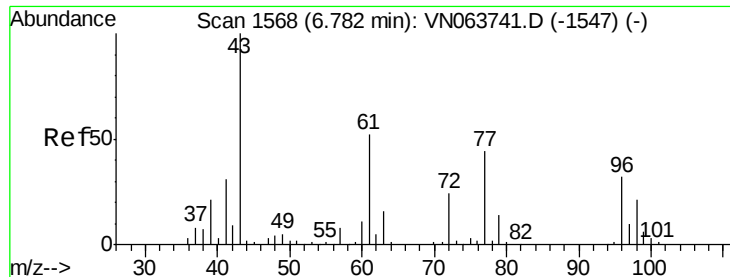
Tot Ion: 43 Resp: 4662
Ion Ratio Lower Upper
43 100
74 3.4 17.4 26.2#



#20
Methylene Chloride
Concen: 4.090 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN064064.D
Acq: 10 Oct 2020 3:13

Tgt Ion: 84 Resp: 9549
Ion Ratio Lower Upper
84 100
49 128.6 110.4 165.6
51 38.1 33.3 49.9
86 65.4 50.7 76.1





#25

2-Butanone

Concen: 3.447 ug/l

RT: 6.80 min Scan# 1575

Delta R.T. 0.02 min

Lab File: VN064064.D

Acq: 10 Oct 2020 3:13

Instrument :

MSVOA_N

ClientSampleId :

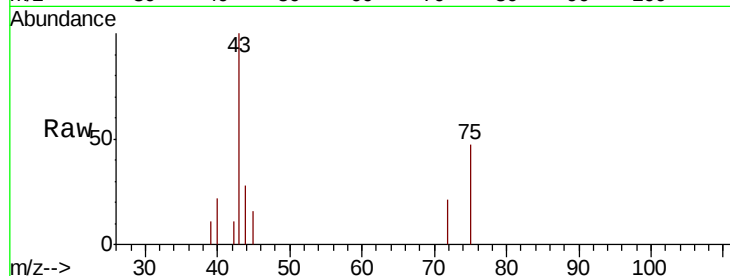
26414

Tot Ion: 43 Resp: 5093

Ion Ratio Lower Upper

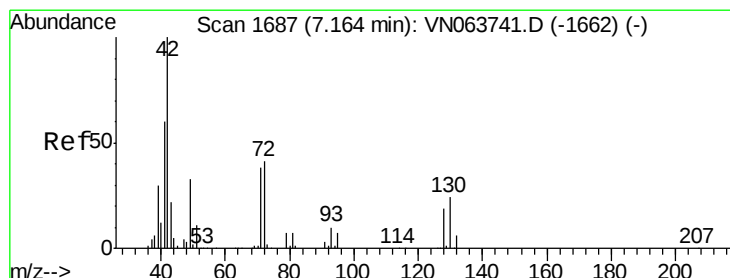
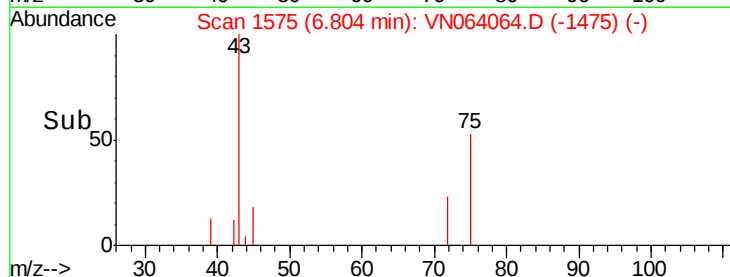
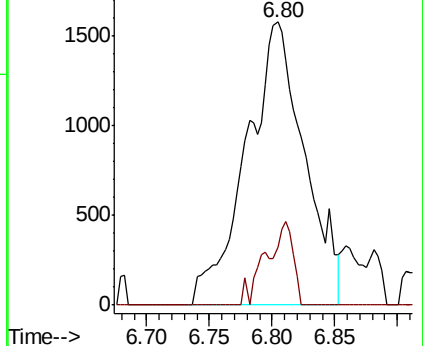
43 100

72 20.7 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: 1.110 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN064064.D

Acq: 10 Oct 2020 3:13

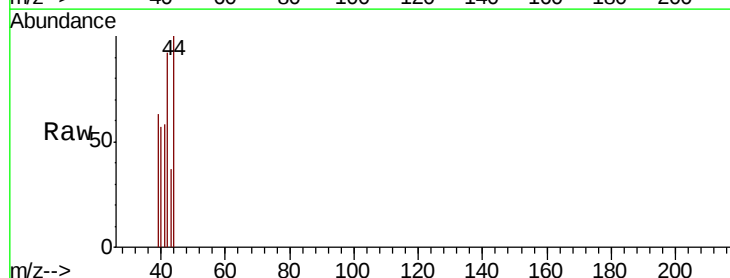
Tgt Ion: 42 Resp: 1100

Ion Ratio Lower Upper

42 100

72 7.3 32.8 49.2#

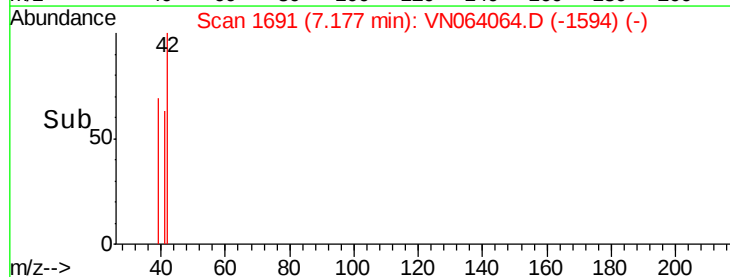
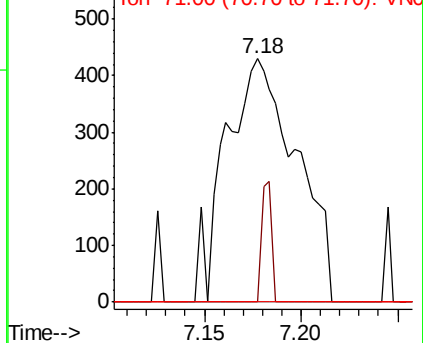
71 0.0 30.6 45.8#

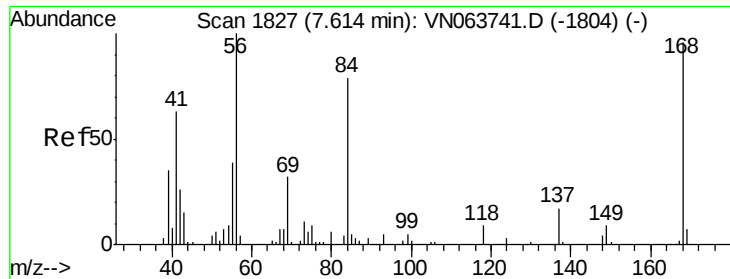


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

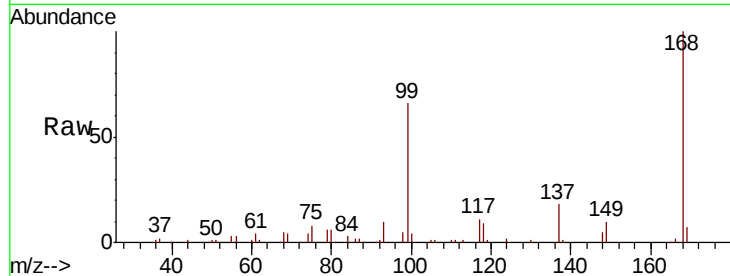




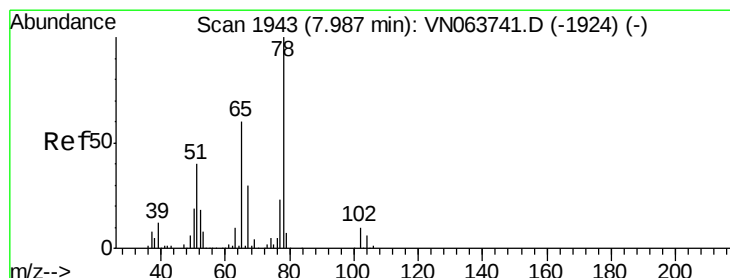
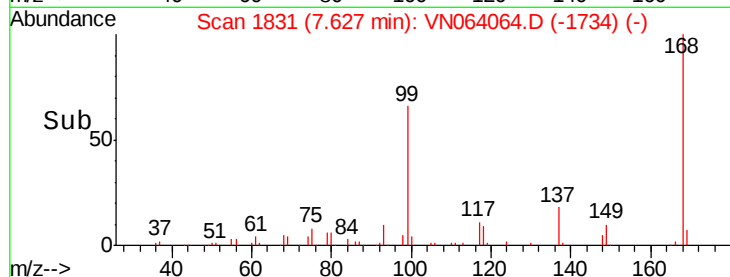
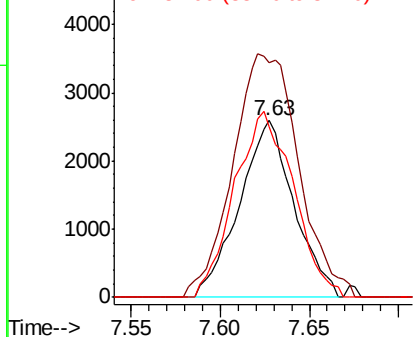
#31
Cyclohexane
Concen: 1.409 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN064064.D
Acq: 10 Oct 2020 3:13

Instrument :
MSVOA_N
ClientSampled :
26414

Tot Ion: 56 Resp: 5537
Ion Ratio Lower Upper
56 100
69 126.9 25.4 38.2#
84 96.4 63.3 94.9#

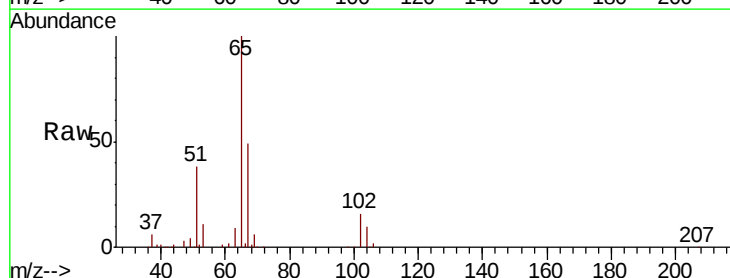


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

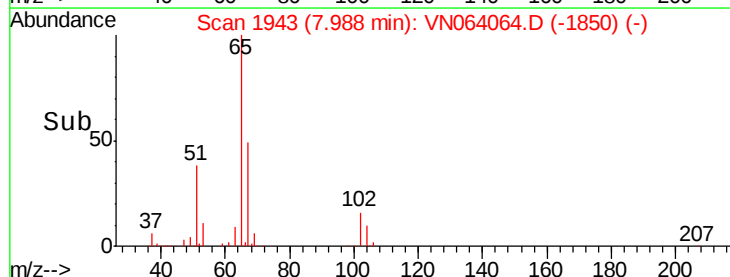
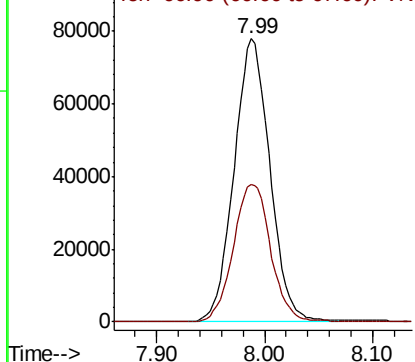


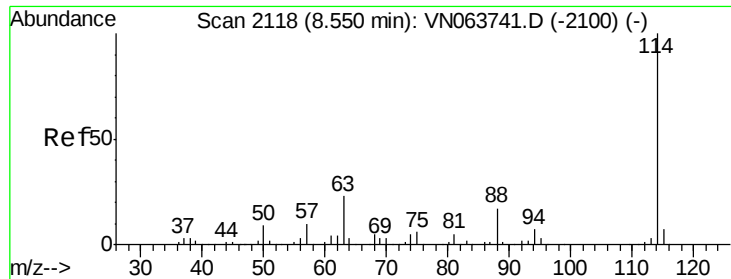
#33
1,2-Dichloroethane-d4
Concen: 53.223 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN064064.D
Acq: 10 Oct 2020 3:13

Tgt Ion: 65 Resp: 180184
Ion Ratio Lower Upper
65 100
67 50.7 0.0 99.6



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

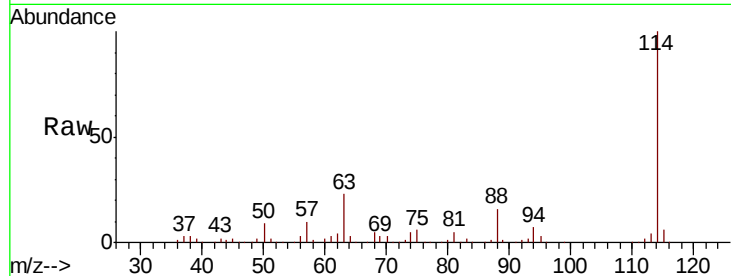




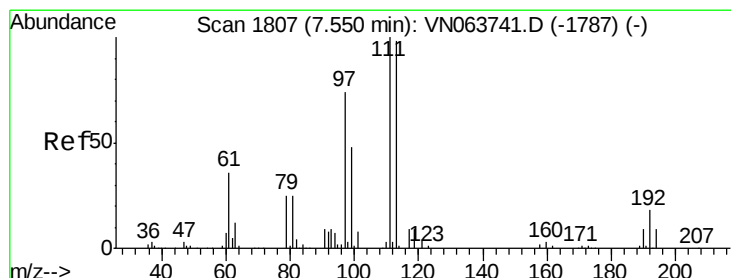
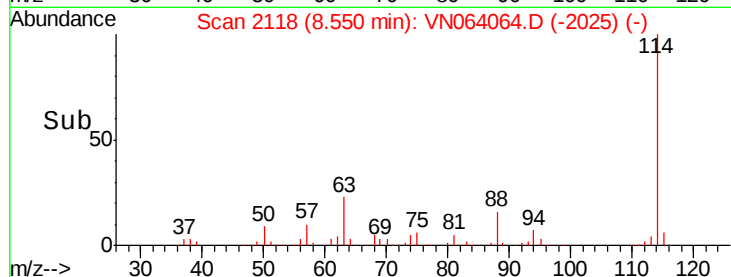
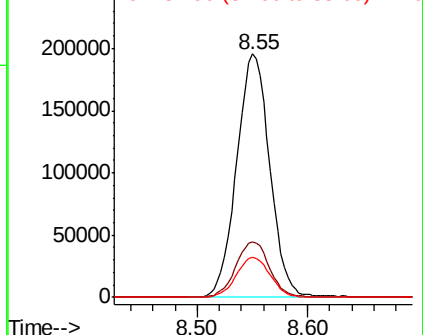
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064064.D
 Acq: 10 Oct 2020 3:13

Instrument :
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 ClientSampled :
 26414

Tot Ion:114 Resp: 407474
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 45.0
 88 16.5 0.0 34.0

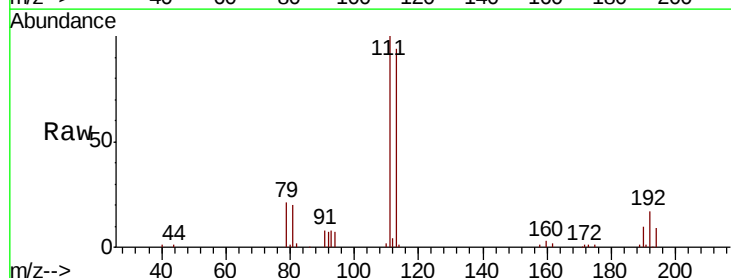


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

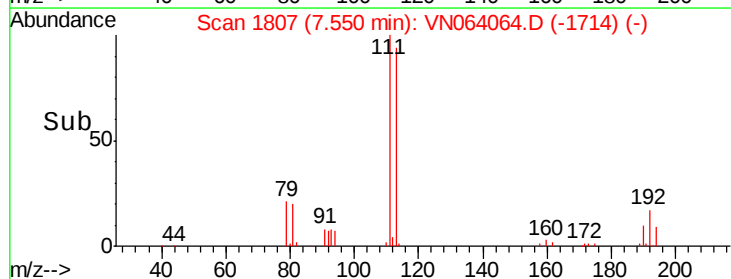
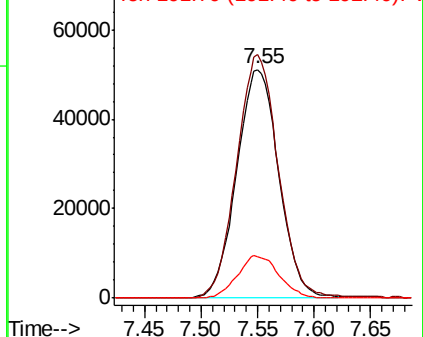


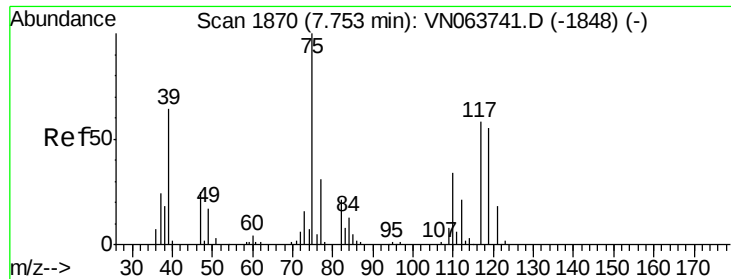
#35
 Dibromofluoromethane
 Concen: 46.840 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064064.D
 Acq: 10 Oct 2020 3:13

Tgt Ion:113 Resp: 132433
 Ion Ratio Lower Upper
 113 100
 111 105.3 81.8 122.8
 192 18.3 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: 4.258 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064064.D

Acq: 10 Oct 2020 3:13

Instrument :

MSVOA_N

ClientSampled :

26414

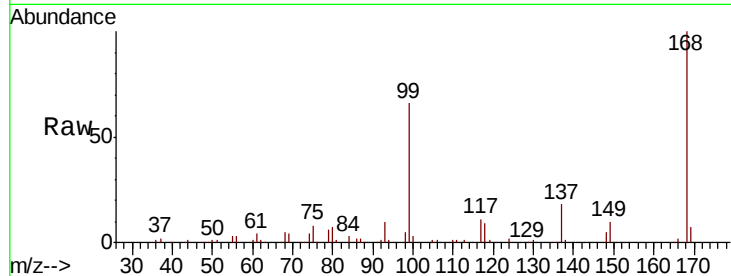
Tot Ion: 75 Resp: 17579

Ion Ratio Lower Upper

75 100

110 9.4 16.9 50.6#

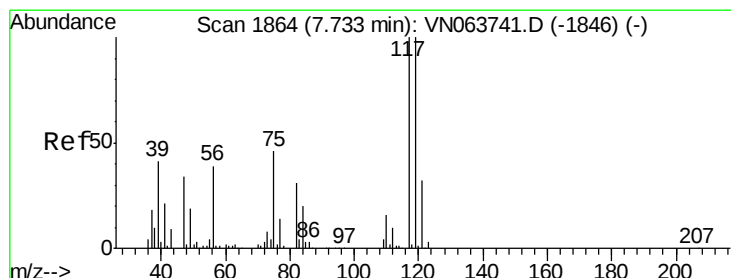
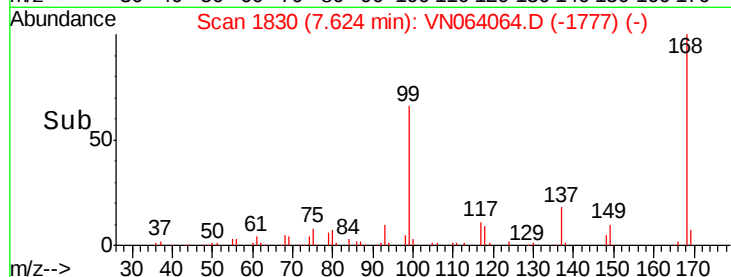
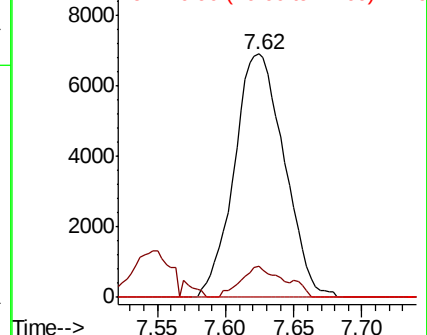
77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VN063741.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN063741.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN063741.D (-1848) (-)



#38

Carbon Tetrachloride

Concen: 4.856 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN064064.D

Acq: 10 Oct 2020 3:13

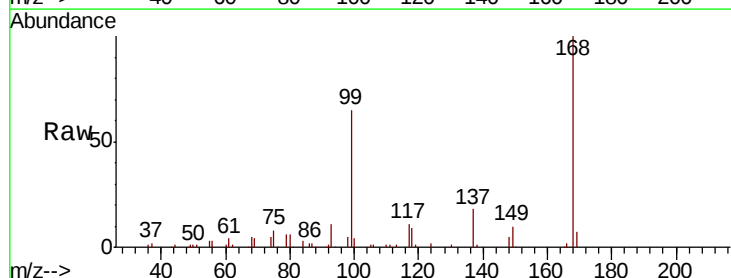
Tgt Ion: 117 Resp: 22479

Ion Ratio Lower Upper

117 100

119 6.4 80.1 120.1#

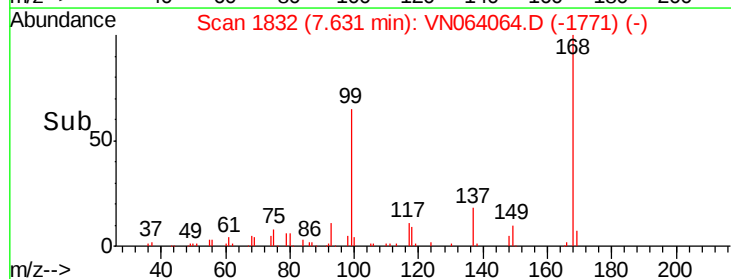
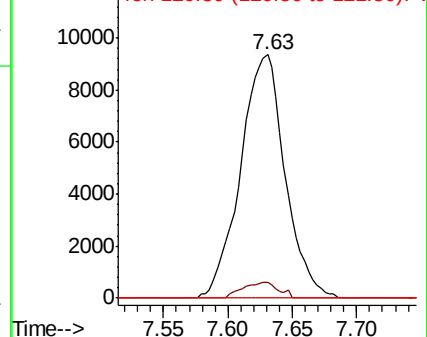
121 0.0 25.7 38.5#

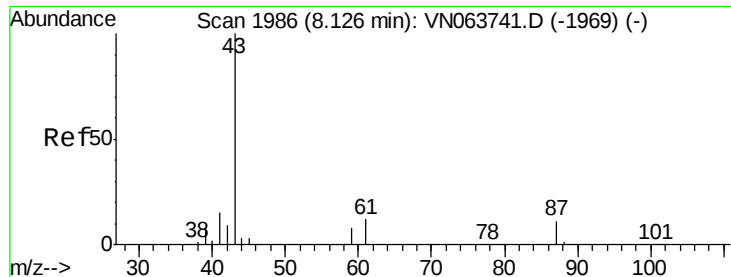


Abundance Ion 116.80 (116.50 to 117.50): VN063741.D (-1846) (-)

Ion 118.80 (118.50 to 119.50): VN063741.D (-1846) (-)

Ion 120.80 (120.50 to 121.50): VN063741.D (-1846) (-)





#43

Isopropyl Acetate

Concen: 9.947 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064064.D

Acq: 10 Oct 2020 3:13

Instrument :

MSVOA_N

ClientSampleId :

26414

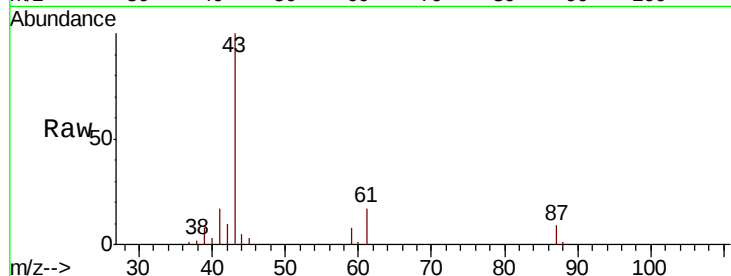
Tot Ion: 43 Resp: 67291

Ion Ratio Lower Upper

43 100

61 19.8 14.2 21.4

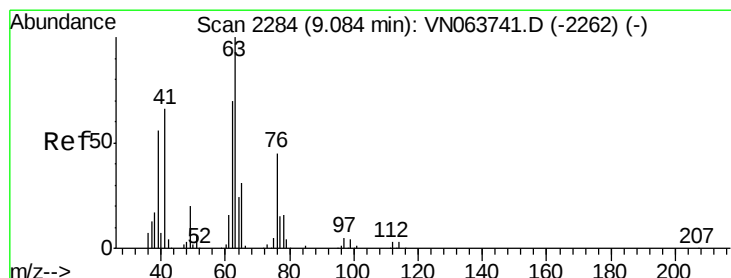
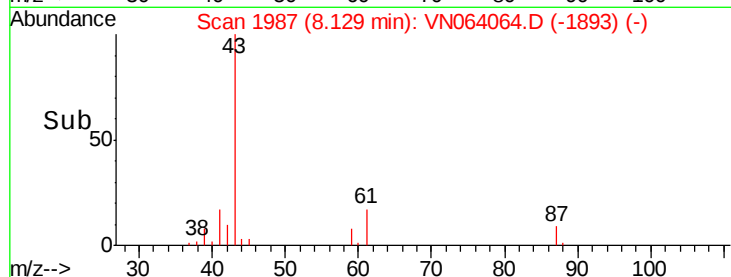
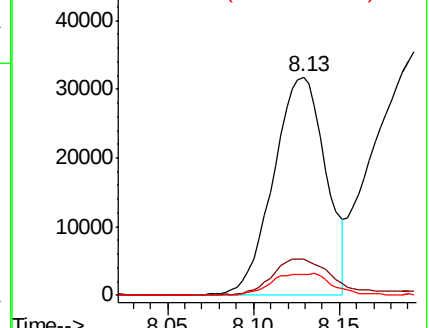
87 11.3 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN063741.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN063741.D (-1969) (-)



#45

1,2-Dichloropropane

Concen: 0.293 ug/l

RT: 9.24 min Scan# 2333

Delta R.T. 0.16 min

Lab File: VN064064.D

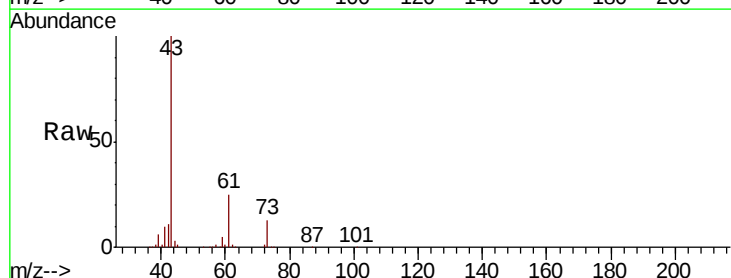
Acq: 10 Oct 2020 3:13

Tgt Ion: 63 Resp: 933

Ion Ratio Lower Upper

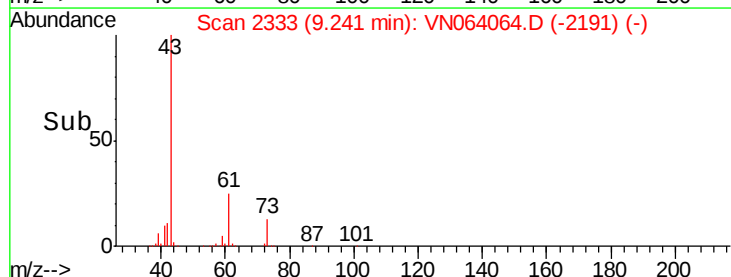
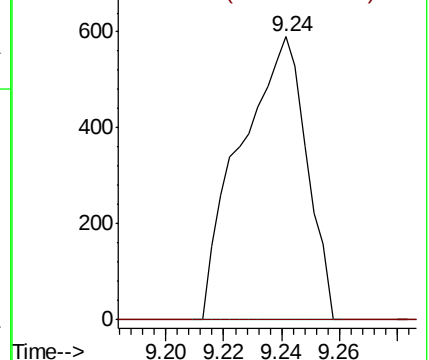
63 100

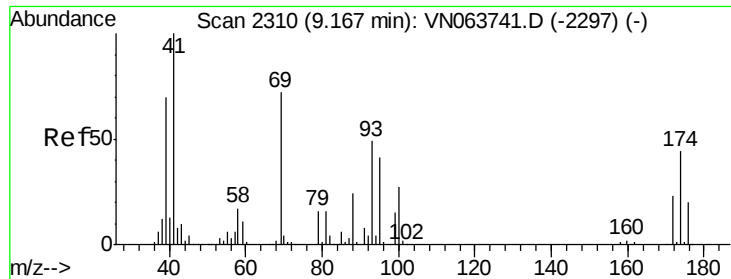
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN063741.D (-2262) (-)

Ion 64.90 (64.60 to 65.60): VN063741.D (-2262) (-)

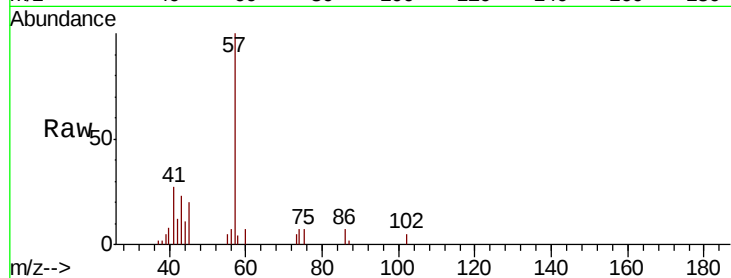




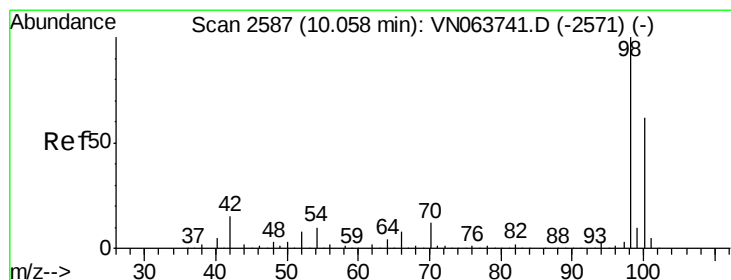
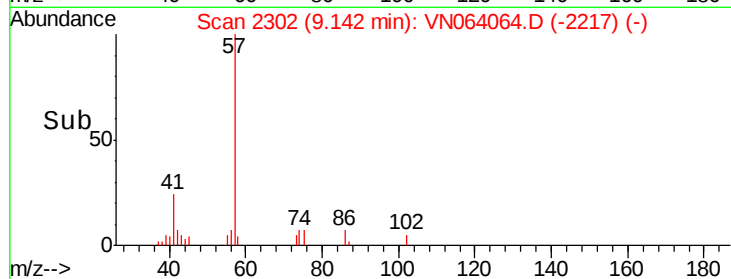
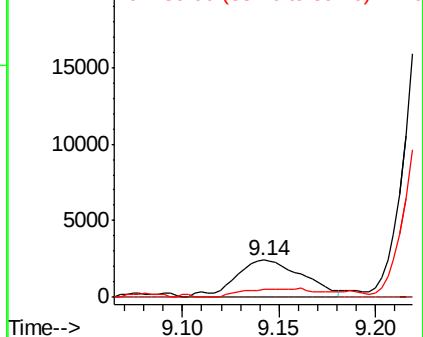
#48
Methvl methacrylate
Concen: 1.766 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN064064.D
Acq: 10 Oct 2020 3:13

Instrument :
MSVOA_N
ClientSampleId :
26414

Tot Ion: 41 Resp: 5904
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 27.4 57.5 86.3#

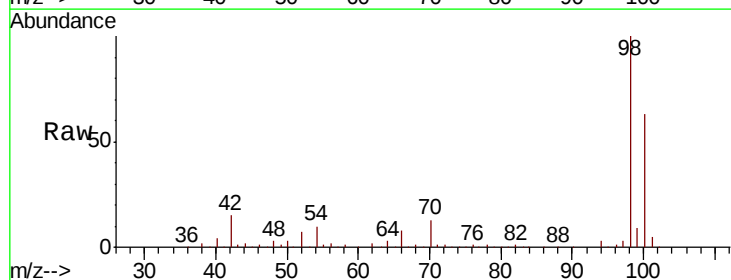


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

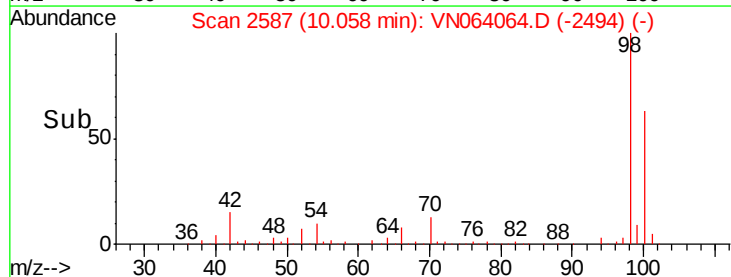
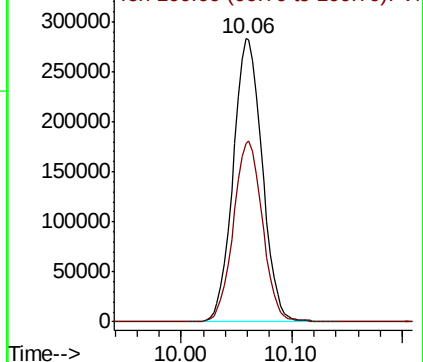


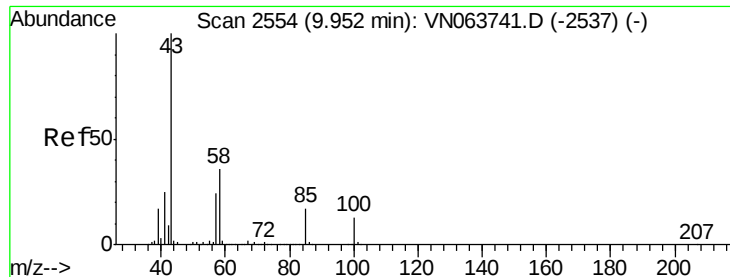
#50
Toluene-d8
Concen: 48.264 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064064.D
Acq: 10 Oct 2020 3:13

Tgt Ion: 98 Resp: 517308
Ion Ratio Lower Upper
98 100
100 63.9 49.8 74.6



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

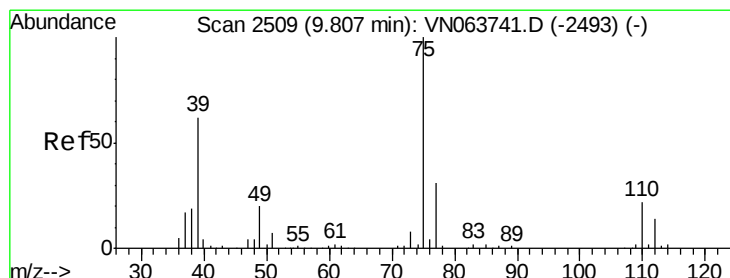
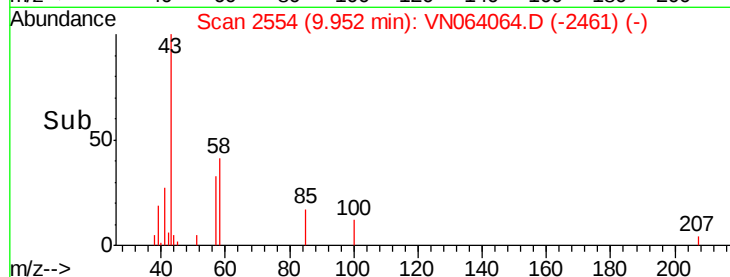
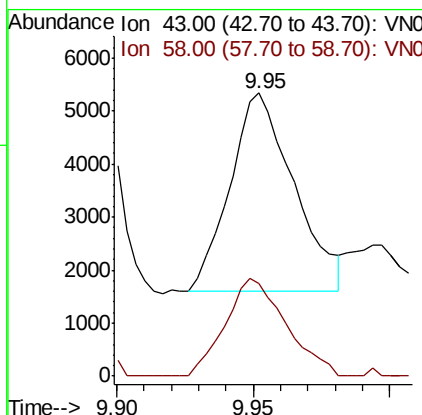
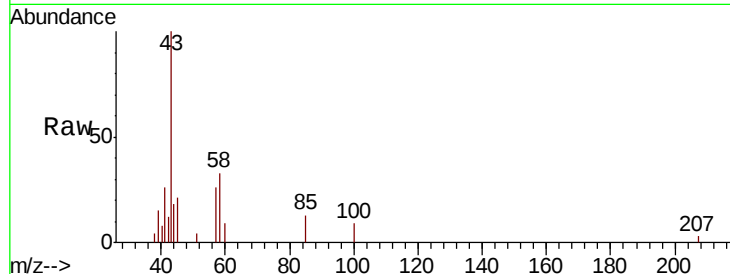




#51
 4-Methyl-2-Pentanone
 Concen: 1.540 ug/l
 RT: 9.95 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN064064.D
 Acq: 10 Oct 2020 3:13

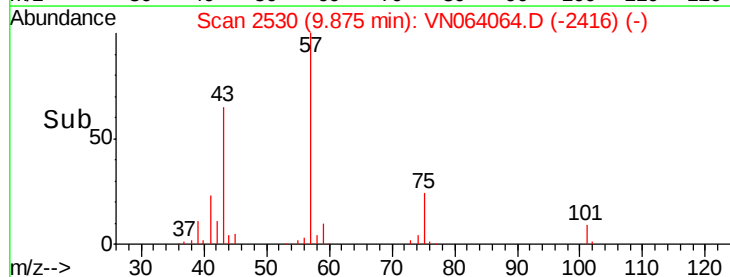
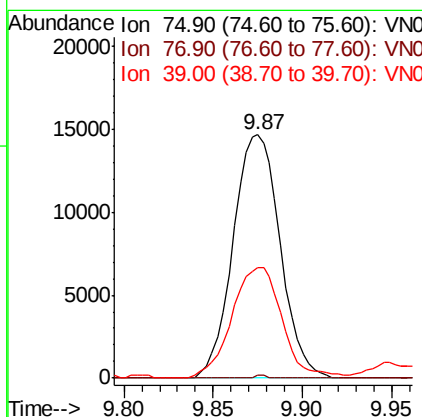
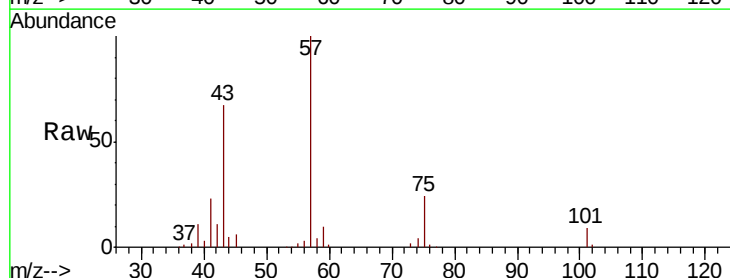
Instrument :
 MSVOA_N
 ClientSampled :
 26414

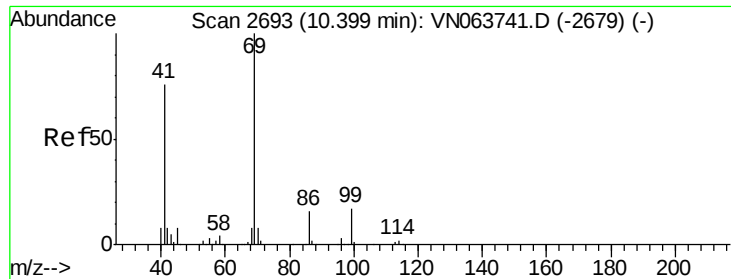
Tot Ion: 43 Resp: 6112
 Ion Ratio Lower Upper
 43 100
 58 46.4 28.4 42.6#



#54
 cis-1,3-Dichloropropene
 Concen: 5.312 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064064.D
 Acq: 10 Oct 2020 3:13

Tgt Ion: 75 Resp: 26960
 Ion Ratio Lower Upper
 75 100
 77 1.0 24.6 36.8#
 39 45.6 49.7 74.5#





#56

Ethyl methacrylate

Concen: 0.575 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN064064.D

Acq: 10 Oct 2020 3:13

Instrument :

MSVOA_N

ClientSampled :

26414

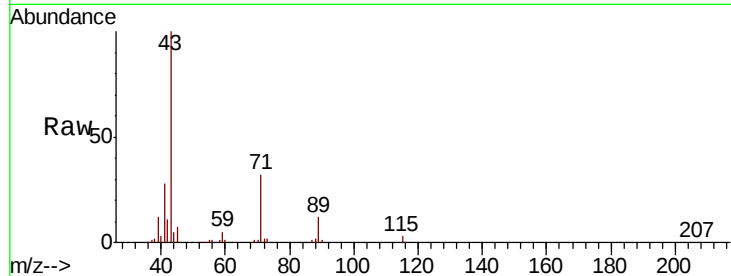
Tot Ion: 69 Resp: 2385

Ion Ratio Lower Upper

69 100

41 2993.5 61.1 91.7#

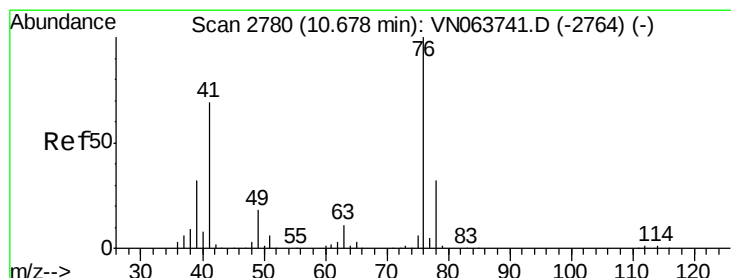
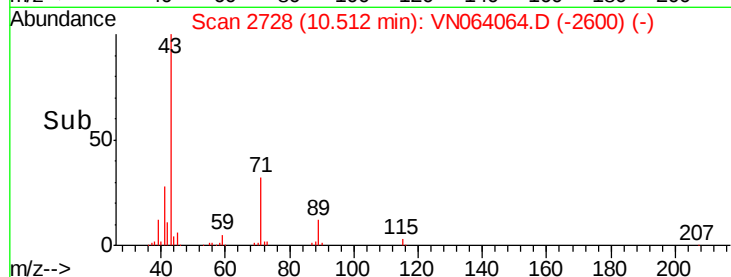
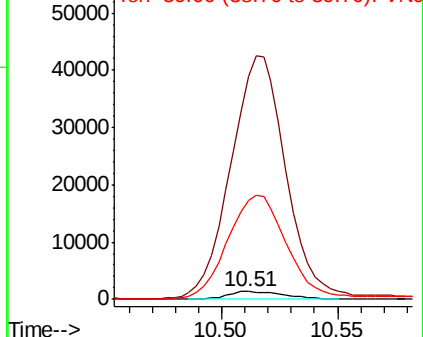
39 1366.7 42.2 63.4#



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: 0.449 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064064.D

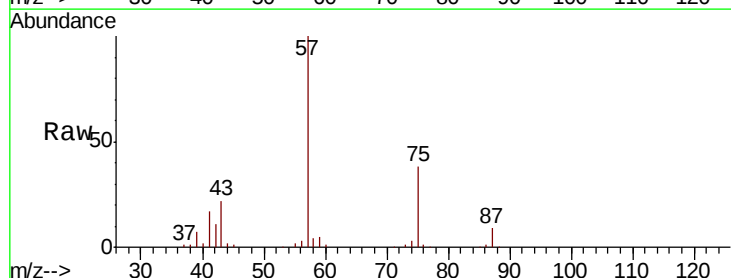
Acq: 10 Oct 2020 3:13

Tgt Ion: 76 Resp: 2220

Ion Ratio Lower Upper

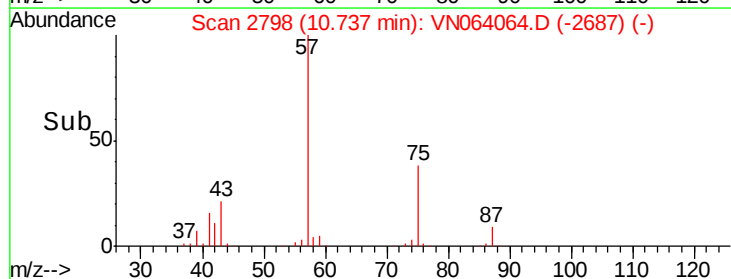
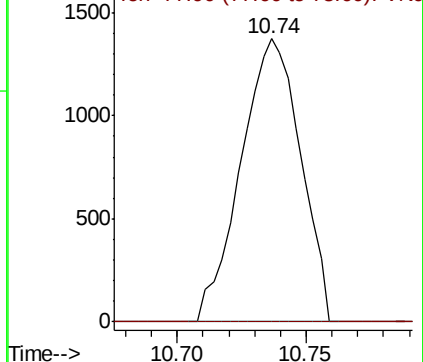
76 100

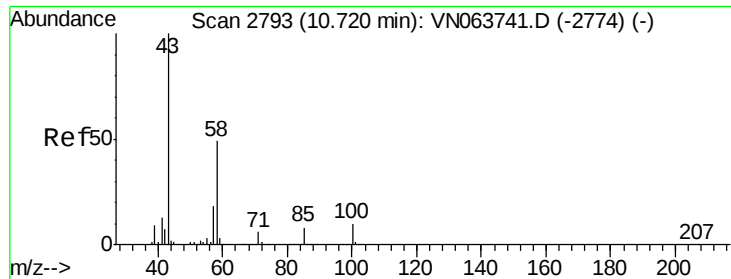
78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 12.542 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064064.D

Acq: 10 Oct 2020 3:13

Instrument :

MSVOA_N

ClientSampleId :

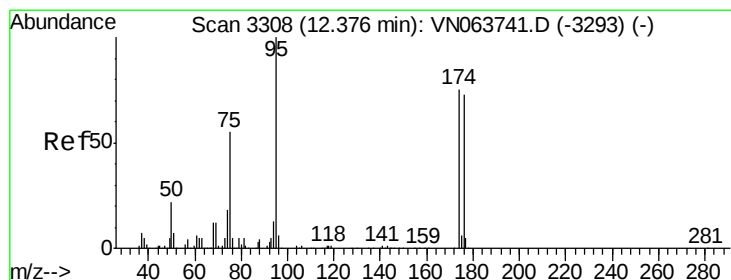
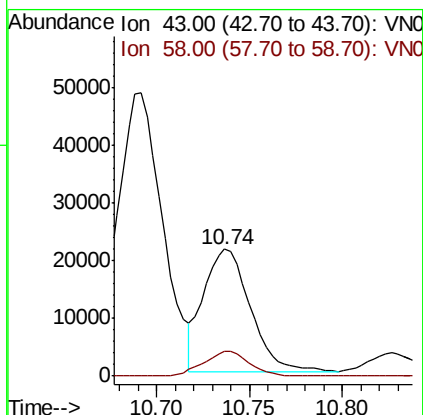
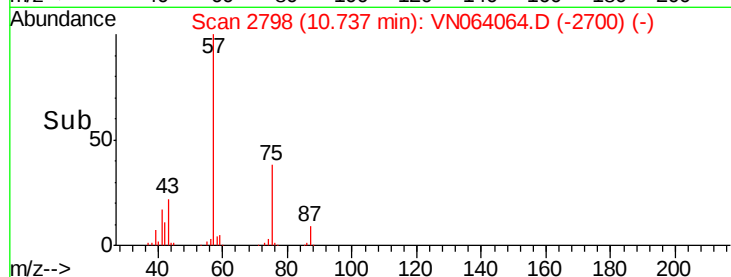
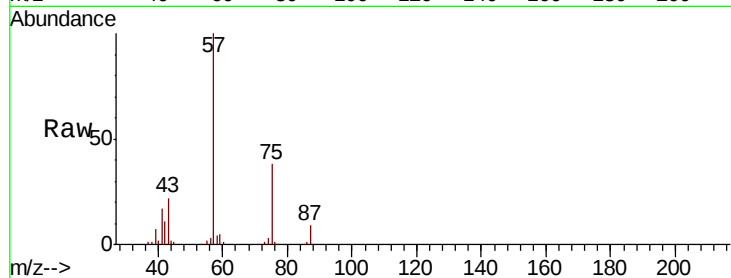
26414

Tot Ion: 43 Resp: 36988

Ion Ratio Lower Upper

43 100

58 20.1 24.6 73.8#



#62

4-Bromofluorobenzene

Concen: 48.048 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064064.D

Acq: 10 Oct 2020 3:13

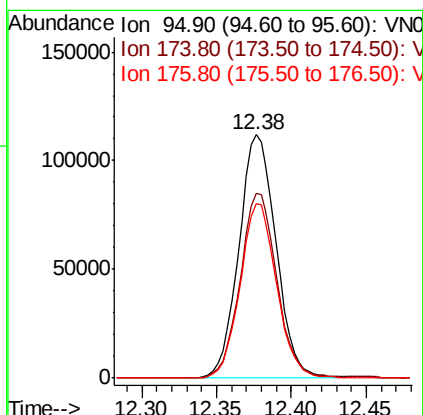
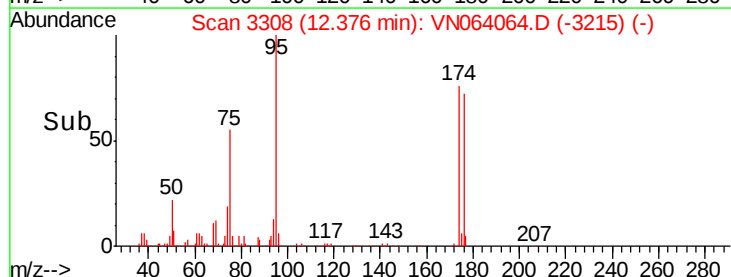
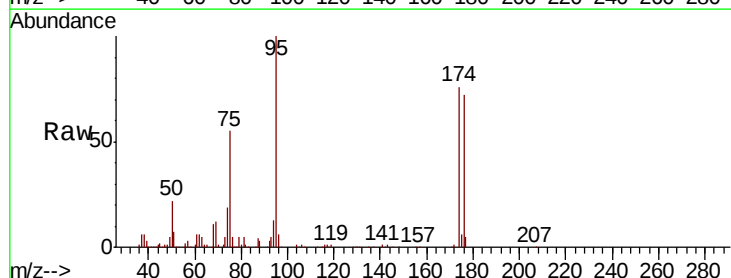
Tgt Ion: 95 Resp: 193589

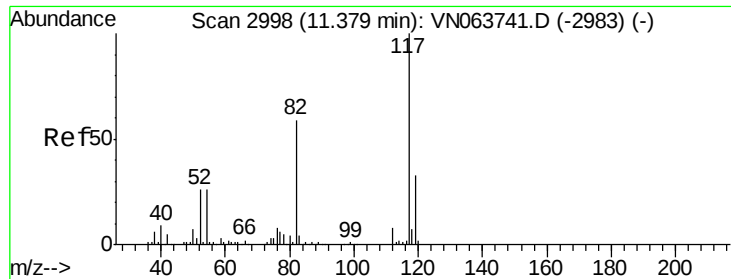
Ion Ratio Lower Upper

95 100

174 75.0 0.0 150.6

176 70.6 0.0 145.4

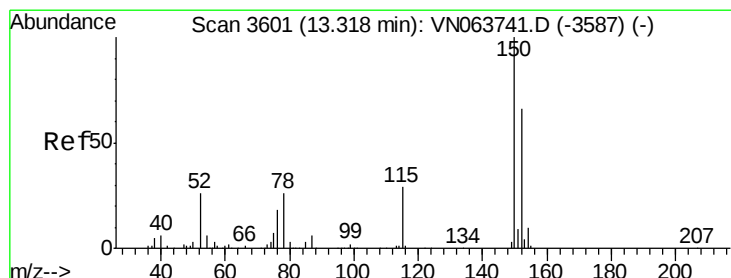
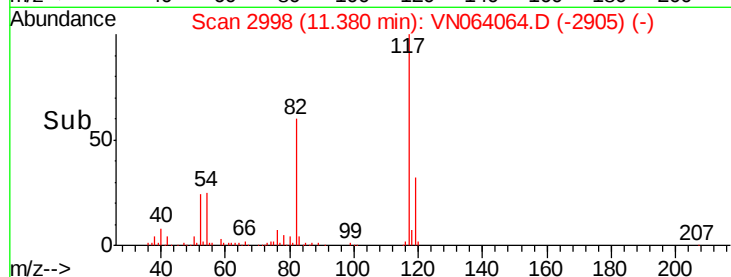
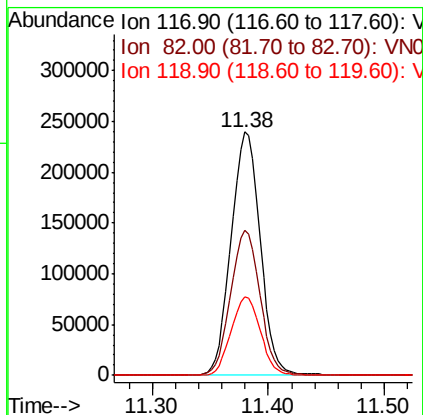
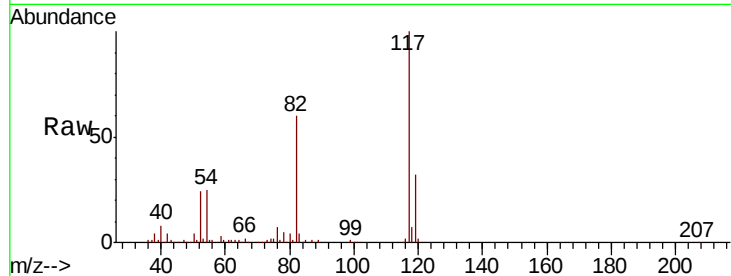




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064064.D
Acq: 10 Oct 2020 3:13

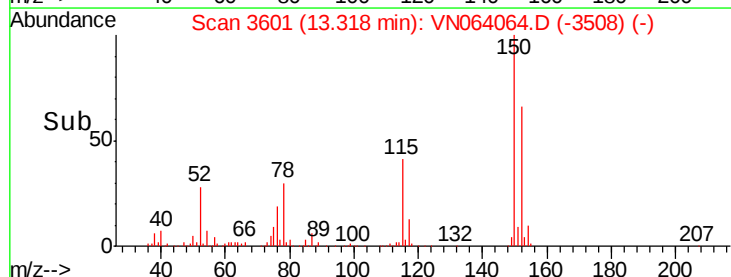
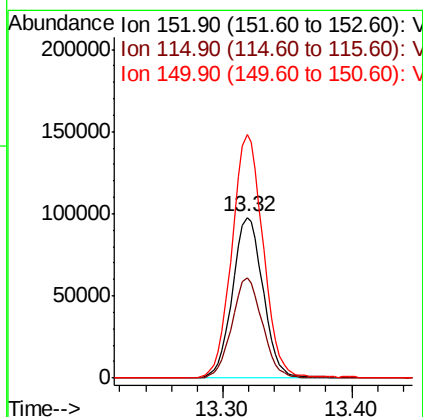
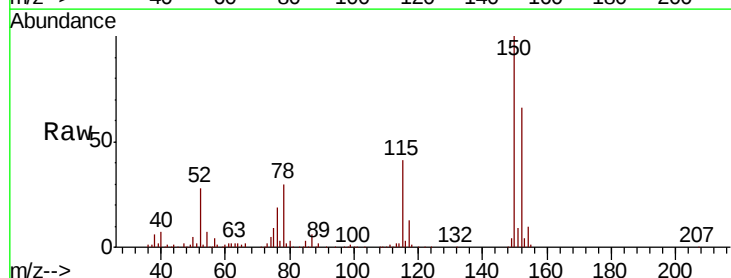
Instrument :
MSVOA_N
ClientSampleId :
26414

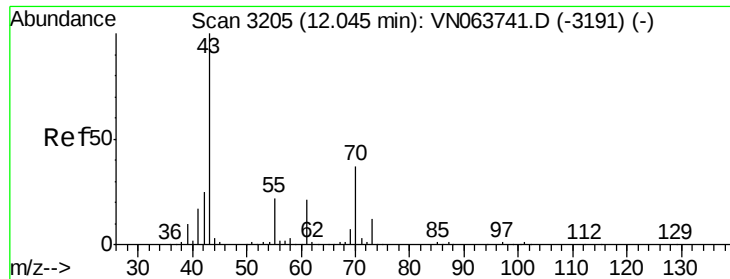
Tot Ion:117 Resp: 416011
Ion Ratio Lower Upper
117 100
82 59.7 47.4 71.2
119 32.0 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064064.D
Acq: 10 Oct 2020 3:13

Tgt Ion:152 Resp: 161979
Ion Ratio Lower Upper
152 100
115 61.6 31.3 93.8
150 154.0 0.0 341.8





#74

N-amvl acetate

Concen: 2.684 ug/l

RT: 12.02 min Scan# 3196

Delta R.T. -0.03 min

Lab File: VN064064.D

Acq: 10 Oct 2020 3:13

Instrument :

MSVOA_N

ClientSampleId :

26414

Tot Ion: 43 Resp: 2691

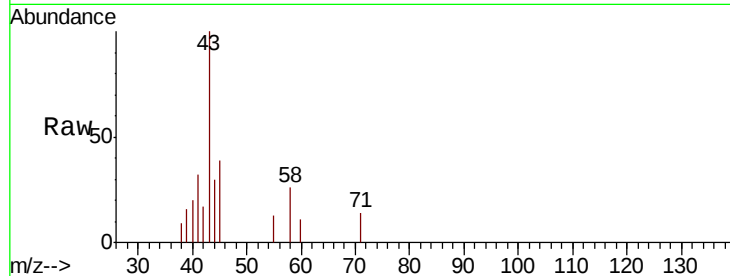
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 7.4 17.9 26.9#

61 0.0 17.0 25.4#

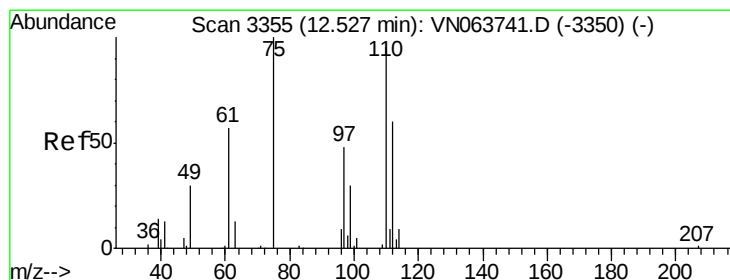
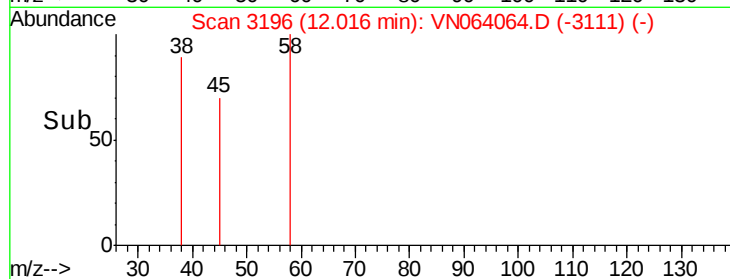
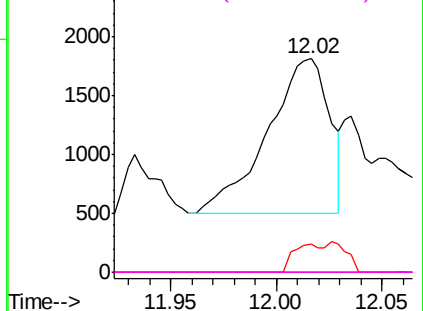


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 29.858 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064064.D

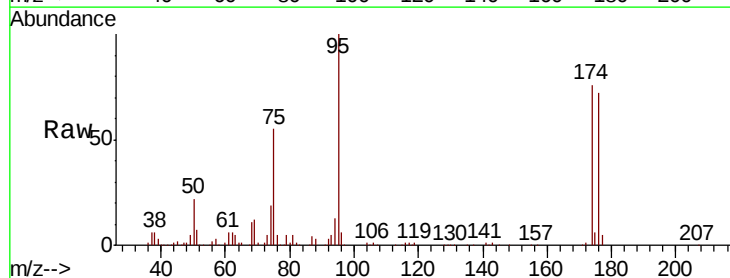
Acq: 10 Oct 2020 3:13

Tgt Ion: 75 Resp: 106612

Ion Ratio Lower Upper

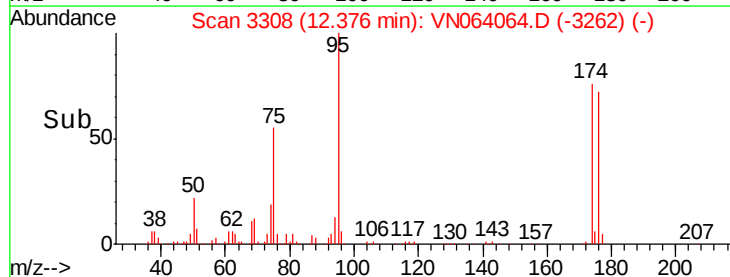
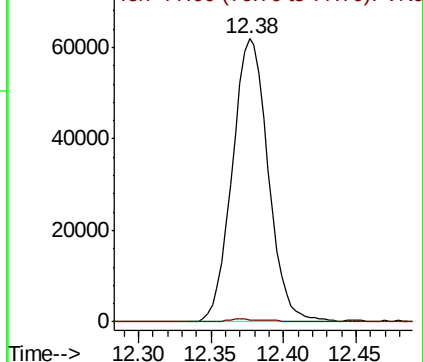
75 100

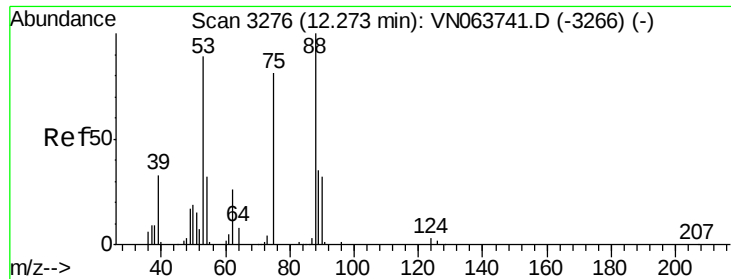
77 0.8 0.0 0.0#



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: 85.995 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064064.D

Acq: 10 Oct 2020 3:13

Instrument :

MSVOA_N

ClientSampleId :

26414

Tot Ion: 75 Resp: 106612

Ion Ratio Lower Upper

75 100

53 0.2 88.2 132.2#

89 0.0 36.0 54.0#

