

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100720\
 Data File : VN063971.D
 Acq On : 8 Oct 2020 4:05
 Operator : JC/MD
 Sample : L4225-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-04-100620

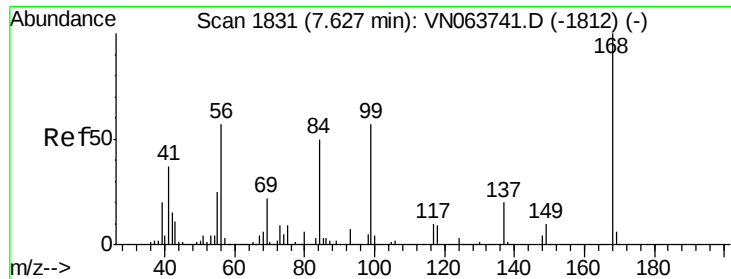
Quant Time: Oct 08 05:11:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	240154	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	451562	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	466915	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	193300	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	203376	51.26	ug/l	0.00
Spiked Amount			Recovery	=	102.52%	
35) Dibromofluoromethane	7.55	113	147980	47.23	ug/l	0.00
Spiked Amount			Recovery	=	94.46%	
50) Toluene-d8	10.06	98	572533	48.20	ug/l	0.00
Spiked Amount			Recovery	=	96.40%	
62) 4-Bromofluorobenzene	12.38	95	223329	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	207	0.473	ug/l #	71
16) Acetone	3.78	43	19354	15.847	ug/l #	81
17) Carbon Disulfide	4.02	76	562	0.785	ug/l #	76
18) Methyl Acetate	4.29	43	3996	1.260	ug/l #	67
20) Methylene Chloride	4.51	84	13029	4.746	ug/l #	87
25) 2-Butanone	6.80	43	6998	4.041	ug/l	98
29) Tetrahydrofuran	7.19	42	795	0.685	ug/l #	49
31) Cyclohexane	7.63	56	6057	1.315	ug/l #	2
36) 1,1-Dichloropropene	7.62	75	21272	4.650	ug/l #	52
38) Carbon Tetrachloride	7.62	117	26887	5.241	ug/l #	12
43) Isopropyl Acetate	8.13	43	84416	11.260	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1479	0.419	ug/l #	44
48) Methyl methacrylate	9.14	41	6132	1.656	ug/l #	12
49) 1,4-Dioxane	9.18	88	31	0.589	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	7686	1.747	ug/l	91
54) cis-1,3-Dichloropropene	9.87	75	32164	5.718	ug/l #	66
56) Ethyl methacrylate	10.51	69	2295	0.500	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	5727	1.044	ug/l #	43
59) 2-Hexanone	10.74	43	93425	28.586	ug/l #	54
74) N-amyl acetate	12.01	43	5332	2.994	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	124234	29.155	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	124234	83.972	ug/l #	6
95) Naphthalene	15.12	128	890	2.006	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

Instrument :

MSVOA_N

ClientSampled :

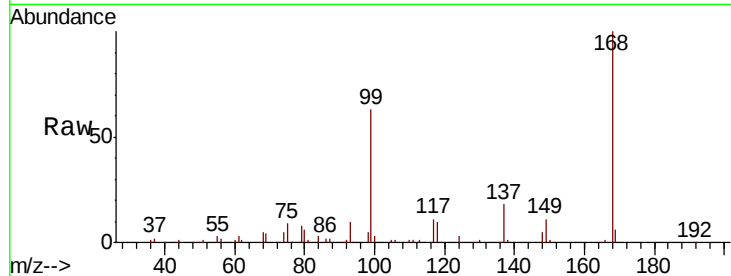
SU-04-100620

Tot Ion:168 Resp: 240154

Ion Ratio Lower Upper

168 100

99 63.2 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

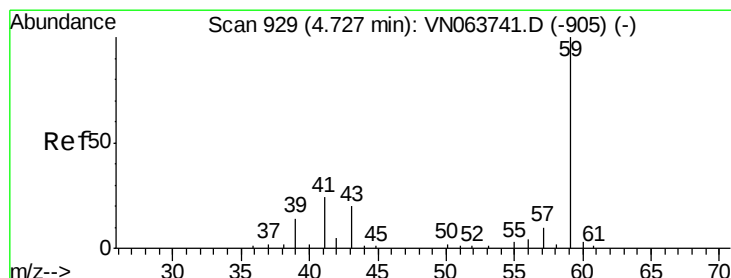
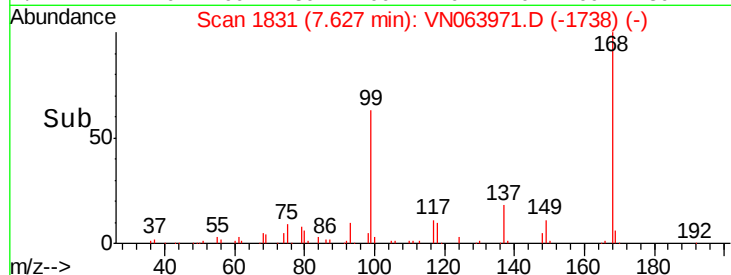
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.473 ug/l

RT: 4.72 min Scan# 926

Delta R.T. -0.01 min

Lab File: VN063971.D

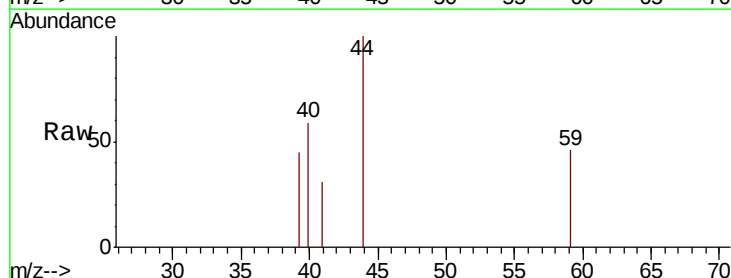
Acq: 8 Oct 2020 4:05

Tgt Ion: 59 Resp: 207

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

400

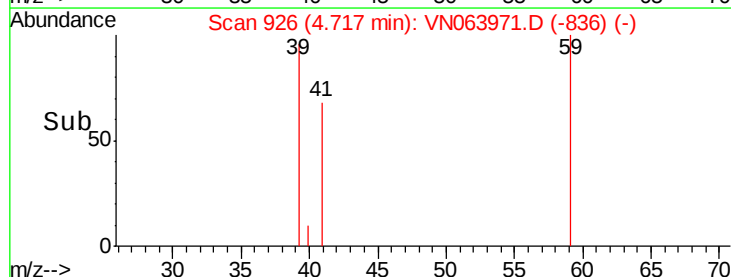
300

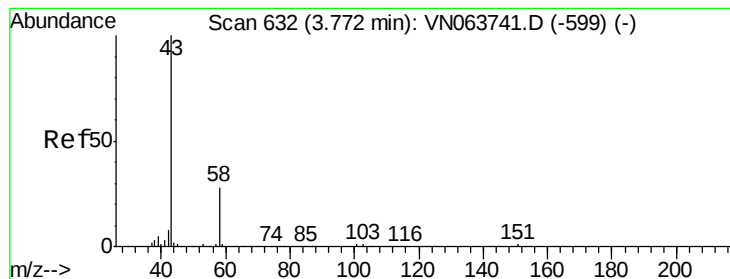
200

100

0

Time-->





#16

Acetone

Concen: 15.847 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

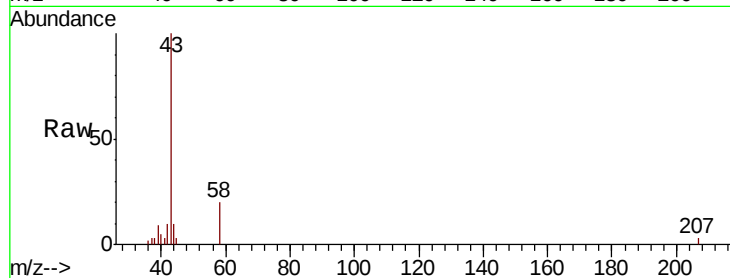
SU-04-100620

Tot Ion: 43 Resp: 19354

Ion Ratio Lower Upper

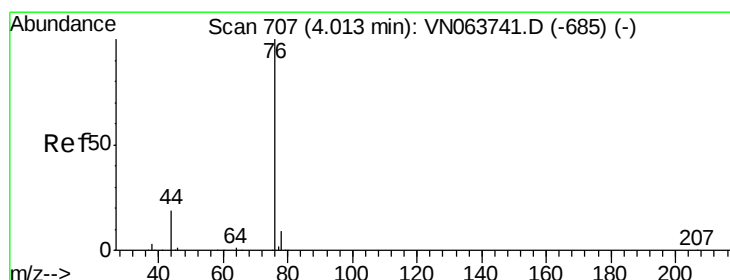
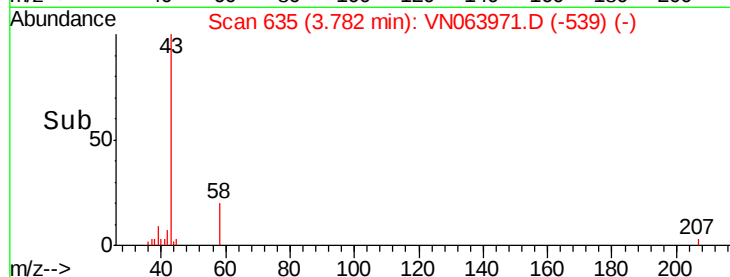
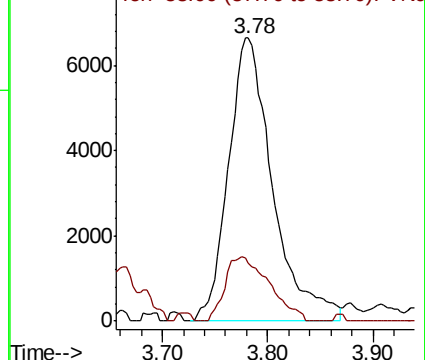
43 100

58 18.1 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: 0.785 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN063971.D

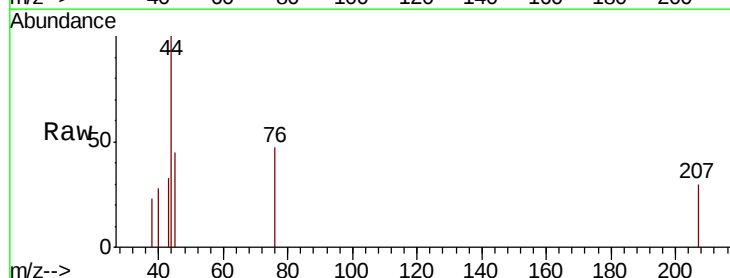
Acq: 8 Oct 2020 4:05

Tgt Ion: 76 Resp: 562

Ion Ratio Lower Upper

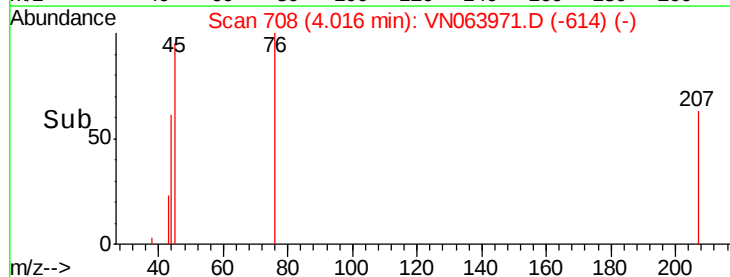
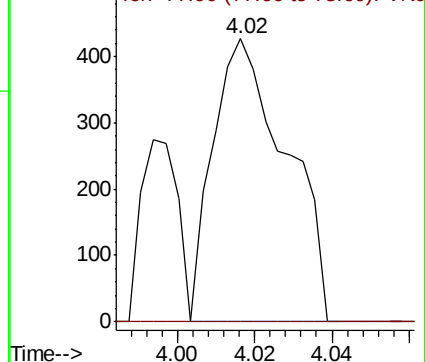
76 100

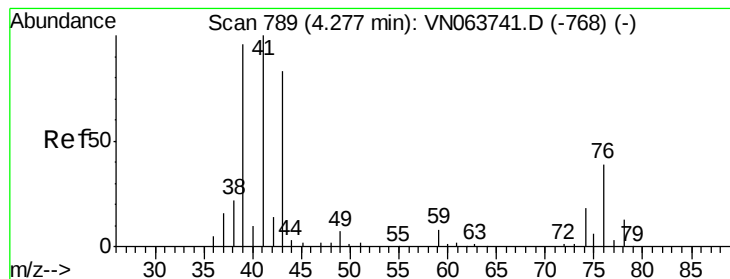
78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#18

Methyl Acetate

Concen: 1.260 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.02 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

Instrument :

MSVOA_N

ClientSampled :

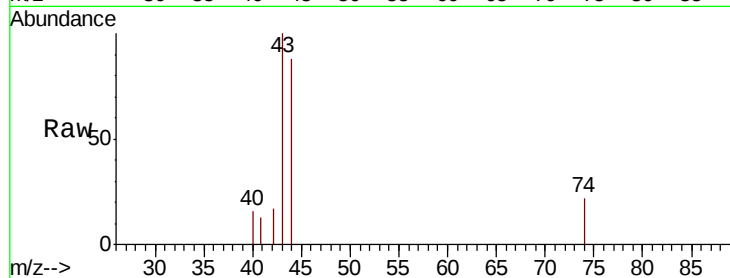
SU-04-100620

Tot Ion: 43 Resp: 3996

Ion Ratio Lower Upper

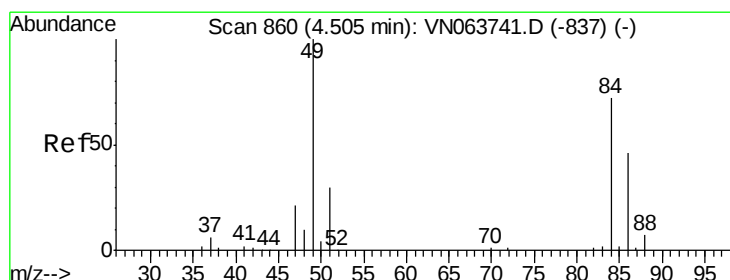
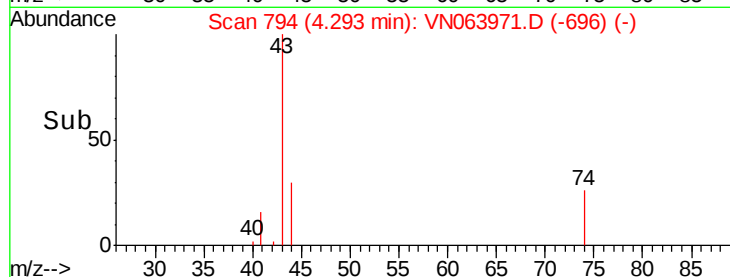
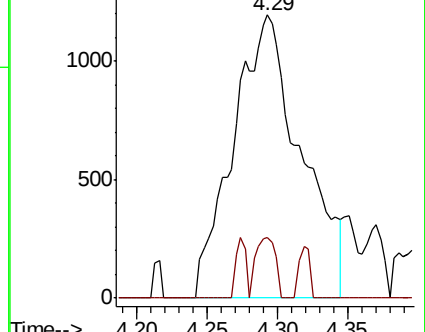
43 100

74 6.3 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN063971.D (-768) (-)

Ion 74.00 (73.70 to 74.70): VN063971.D (-768) (-)



#20

Methylene Chloride

Concen: 4.746 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.00 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

Tgt Ion: 84 Resp: 13029

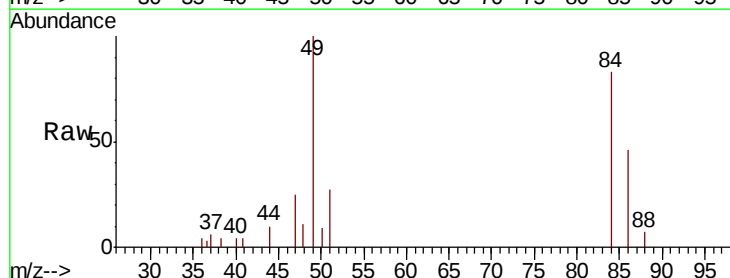
Ion Ratio Lower Upper

84 100

49 120.9 110.4 165.6

51 32.7 33.3 49.9#

86 55.3 50.7 76.1

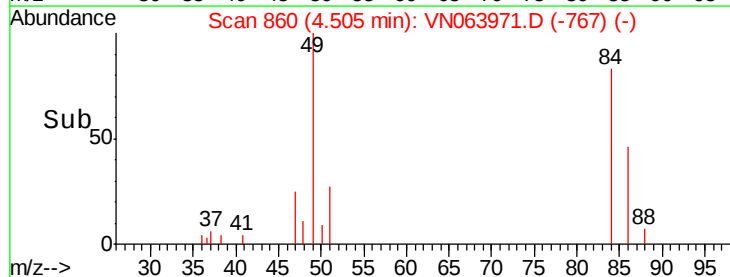
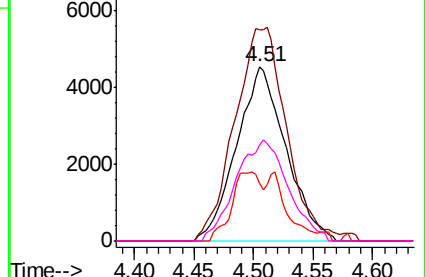


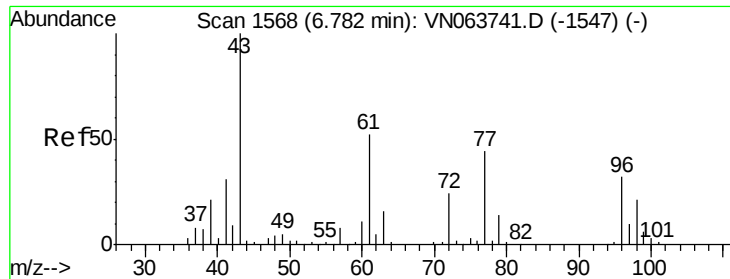
Abundance Ion 83.90 (83.60 to 84.60): VN063971.D (-837) (-)

Ion 48.90 (48.60 to 49.60): VN063971.D (-837) (-)

Ion 50.90 (50.60 to 51.60): VN063971.D (-837) (-)

Ion 85.90 (85.60 to 86.60): VN063971.D (-837) (-)

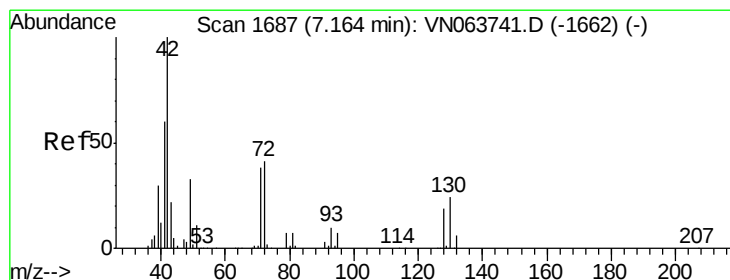
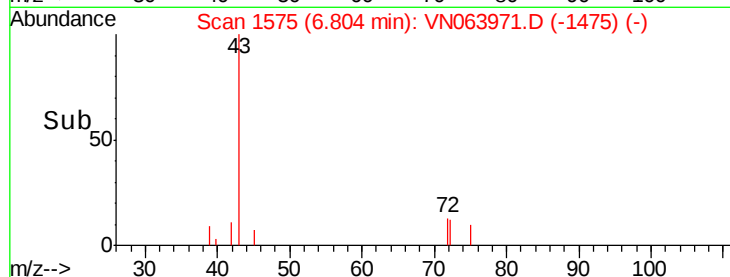
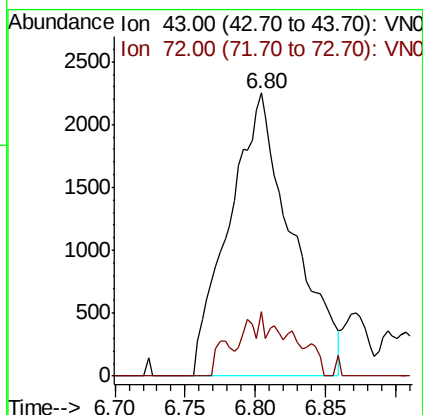
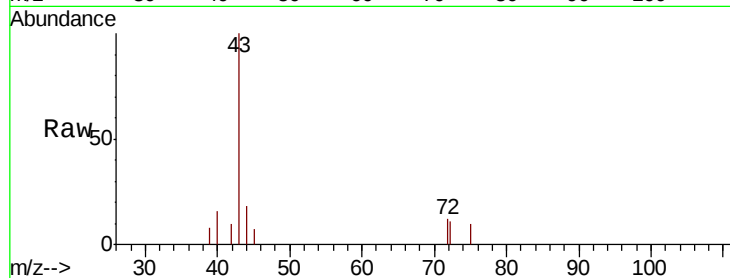




#25
2-Butanone
Concen: 4.041 ug/l
RT: 6.80 min Scan# 1575
Delta R.T. 0.02 min
Lab File: VN063971.D
Acq: 8 Oct 2020 4:05

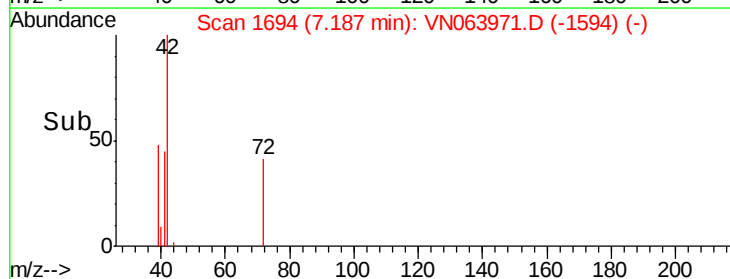
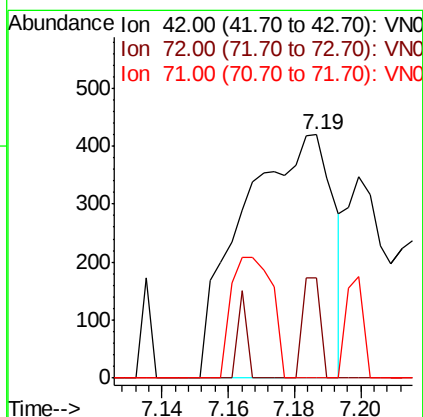
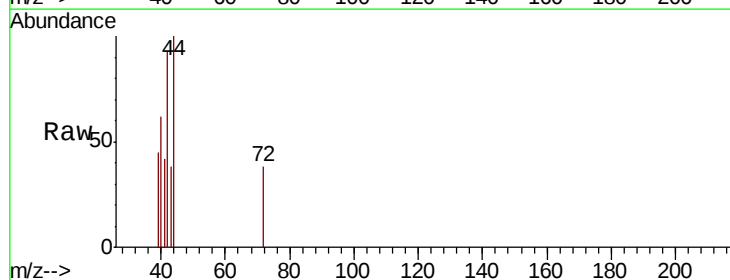
Instrument :
MSVOA_N
ClientSampleId :
SU-04-100620

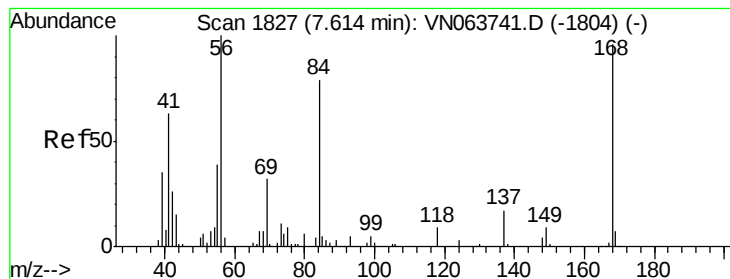
Tot Ion: 43 Resp: 6998
Ion Ratio Lower Upper
43 100
72 22.9 19.3 28.9



#29
Tetrahydrofuran
Concen: 0.685 ug/l
RT: 7.19 min Scan# 1694
Delta R.T. 0.02 min
Lab File: VN063971.D
Acq: 8 Oct 2020 4:05

Tgt Ion: 42 Resp: 795
Ion Ratio Lower Upper
42 100
72 8.4 32.8 49.2#
71 8.1 30.6 45.8#





#31

Cvclohexane

Concen: 1.315 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

Instrument :

MSVOA_N

ClientSampled :

SU-04-100620

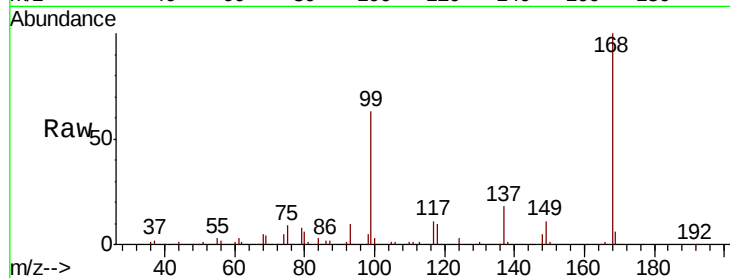
Tot Ion: 56 Resp: 6057

Ion Ratio Lower Upper

56 100

69 164.9 25.4 38.2#

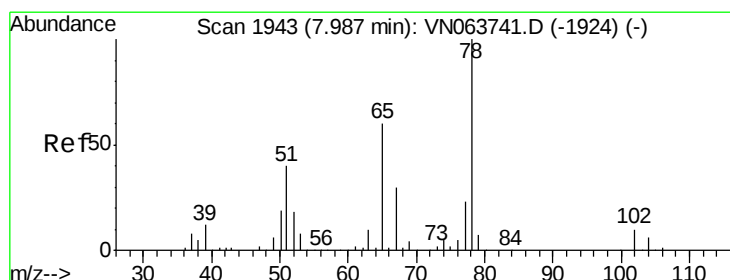
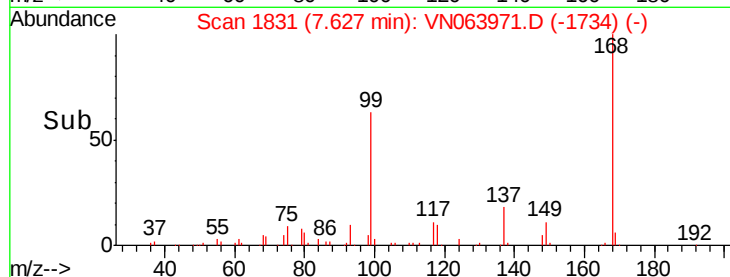
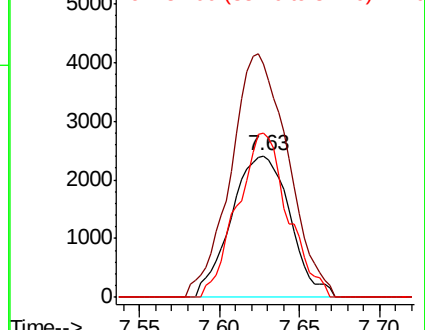
84 115.7 63.3 94.9#



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: 51.260 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN063971.D

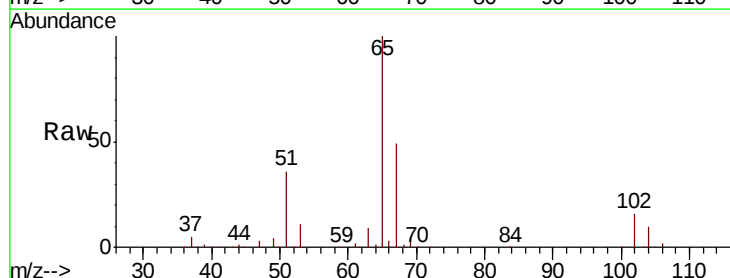
Acq: 8 Oct 2020 4:05

Tgt Ion: 65 Resp: 203376

Ion Ratio Lower Upper

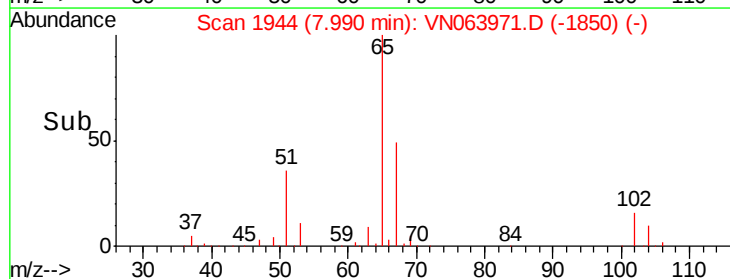
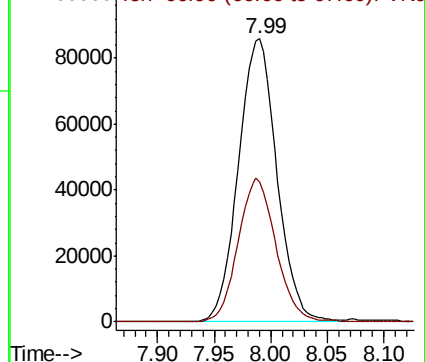
65 100

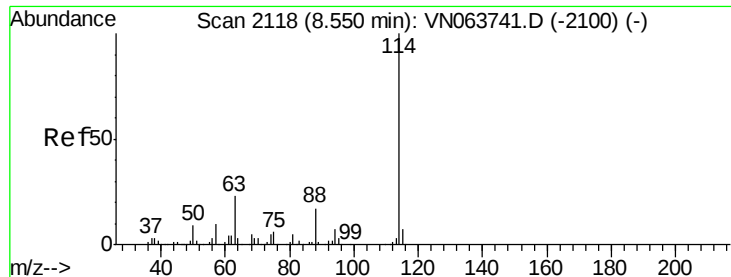
67 49.9 0.0 99.6



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: VN063971.D

Acq: 8 Oct 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

SU-04-100620

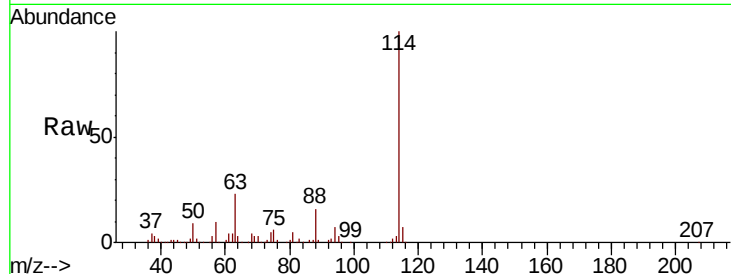
Tot Ion:114 Resp: 451562

Ion Ratio Lower Upper

114 100

63 22.6 0.0 45.0

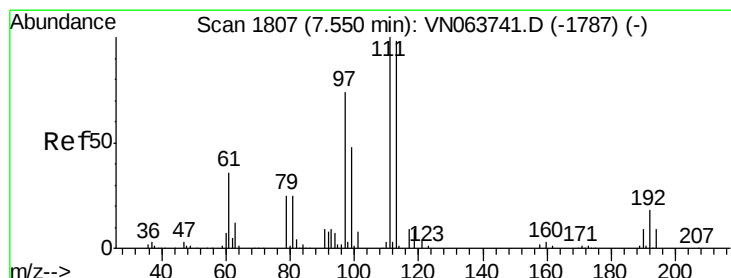
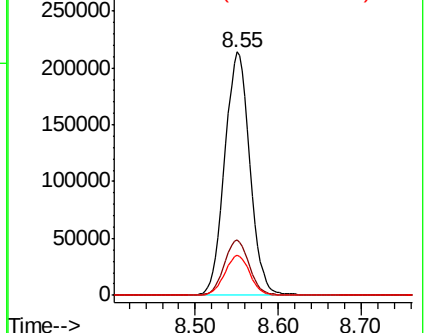
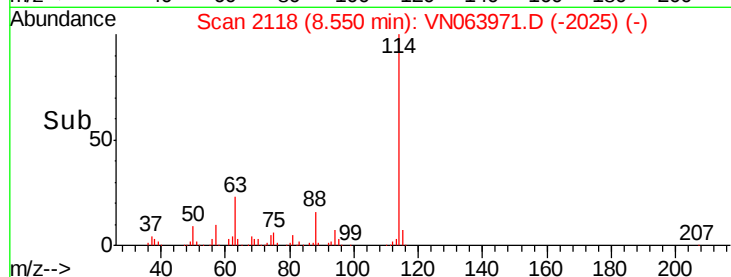
88 16.5 0.0 34.0



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: 47.228 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

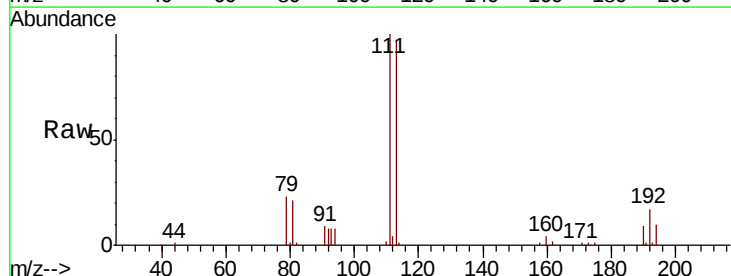
Tgt Ion:113 Resp: 147980

Ion Ratio Lower Upper

113 100

111 103.5 81.8 122.8

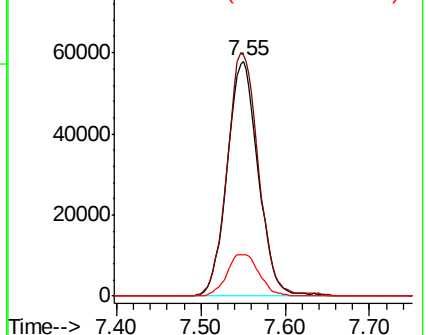
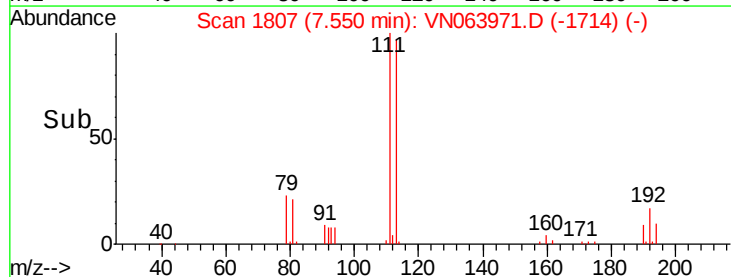
192 18.4 14.2 21.2

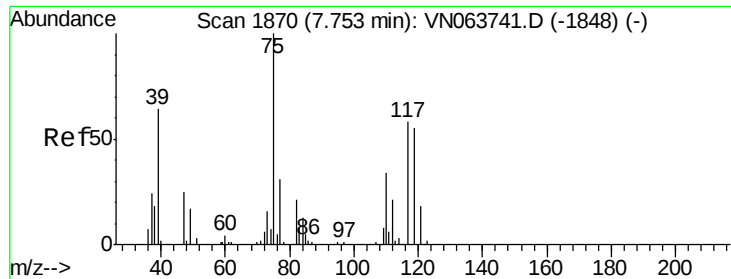


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.650 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

SU-04-100620

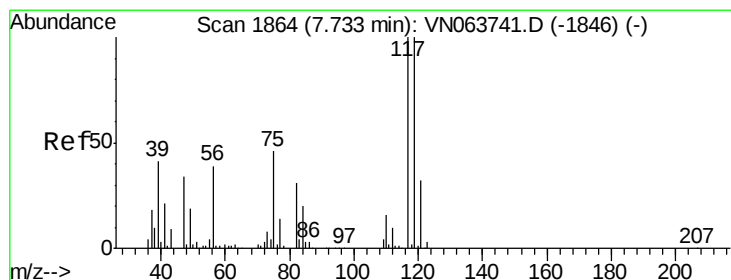
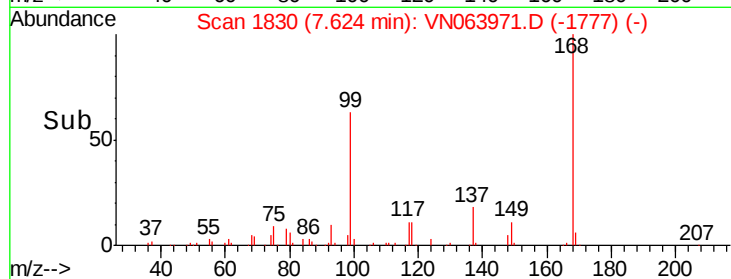
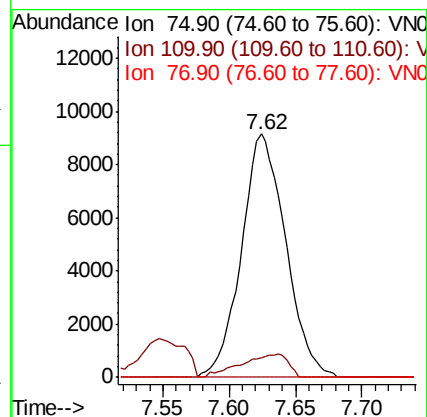
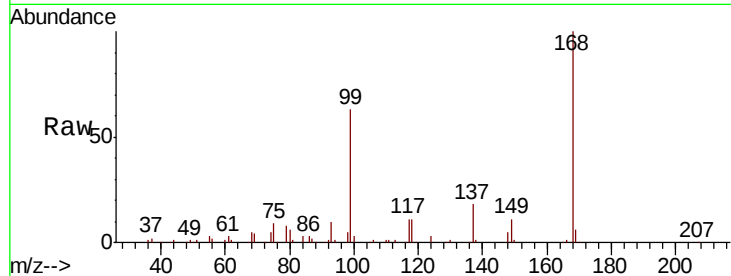
Tot Ion: 75 Resp: 21272

Ion Ratio Lower Upper

75 100

110 10.1 16.9 50.6#

77 0.0 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 5.241 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

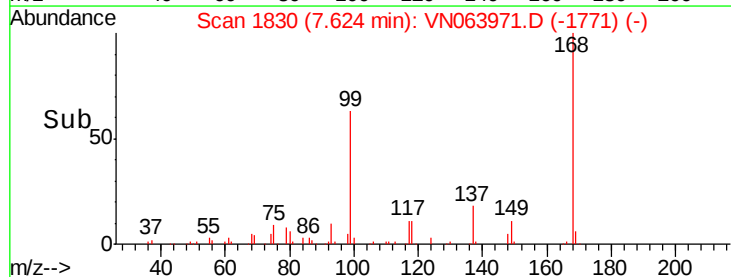
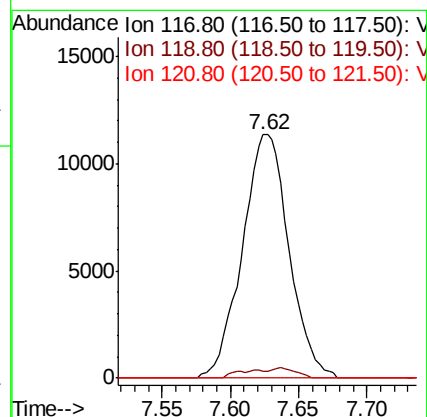
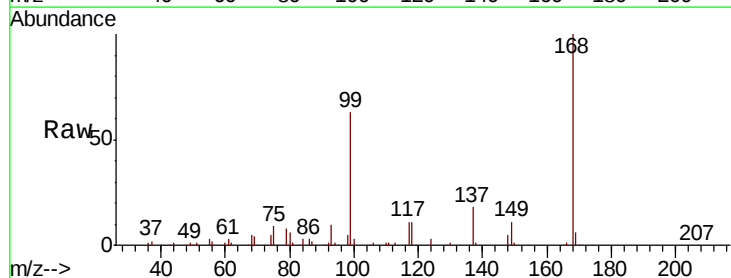
Tgt Ion: 117 Resp: 26887

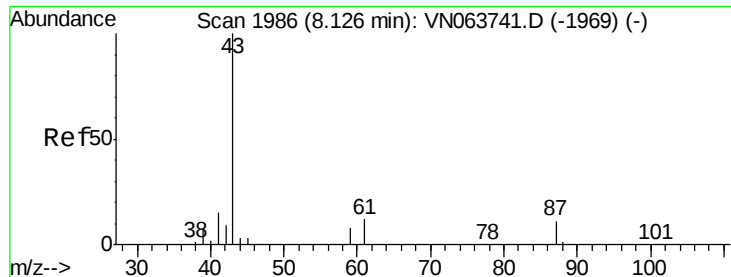
Ion Ratio Lower Upper

117 100

119 2.9 80.1 120.1#

121 0.0 25.7 38.5#





#43

Isopropyl Acetate

Concen: 11.260 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

SU-04-100620

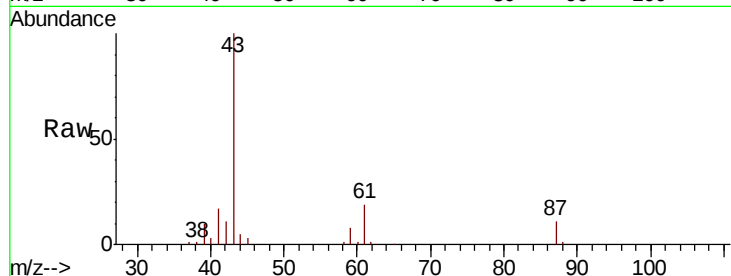
Tot Ion: 43 Resp: 84416

Ion Ratio Lower Upper

43 100

61 18.2 14.2 21.4

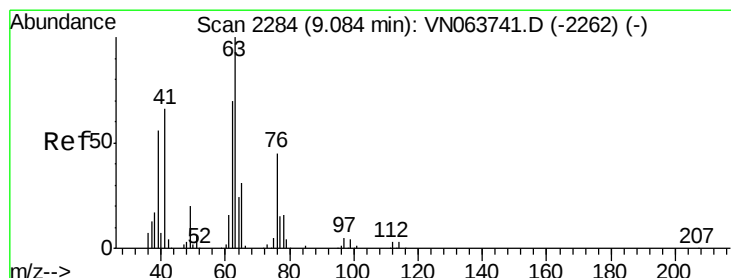
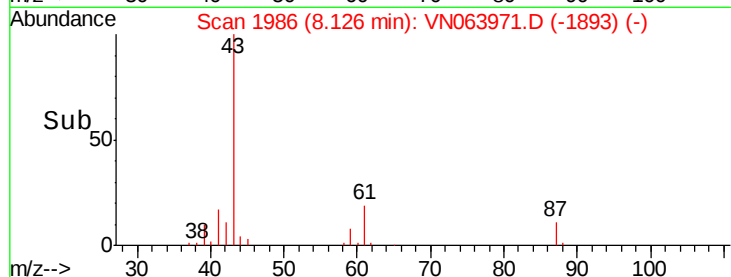
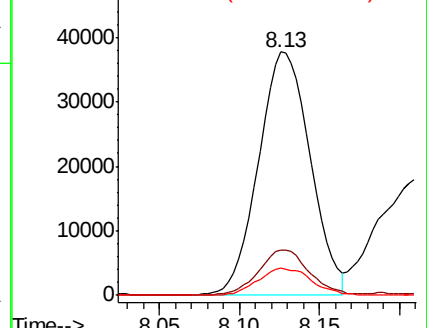
87 11.4 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063971.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN063971.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN063971.D (-1969) (-)



#45

1,2-Dichloropropane

Concen: 0.419 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063971.D

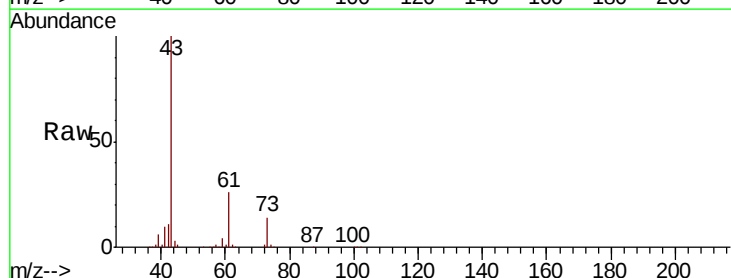
Acq: 8 Oct 2020 4:05

Tgt Ion: 63 Resp: 1479

Ion Ratio Lower Upper

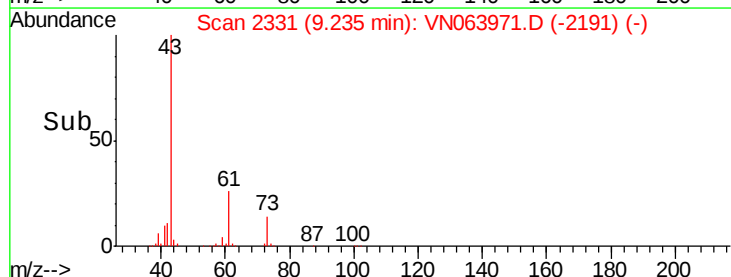
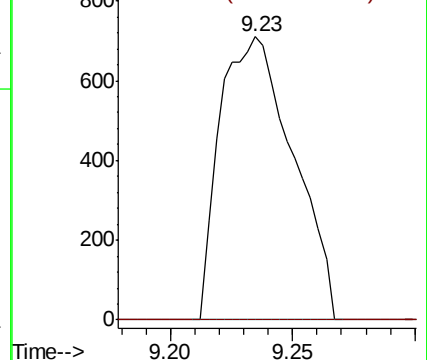
63 100

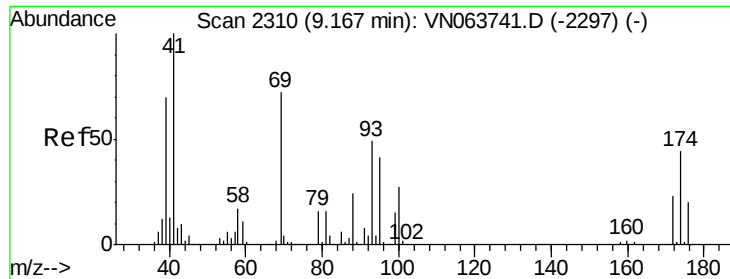
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN063971.D (-2191) (-)

Ion 64.90 (64.60 to 65.60): VN063971.D (-2191) (-)

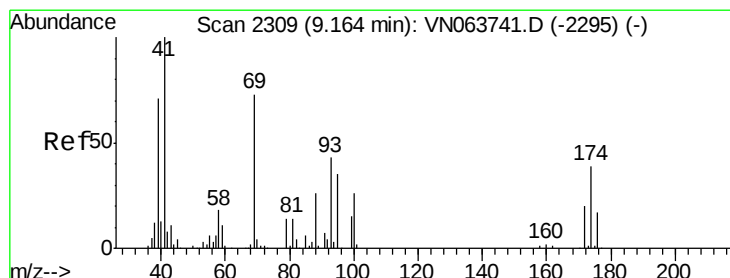
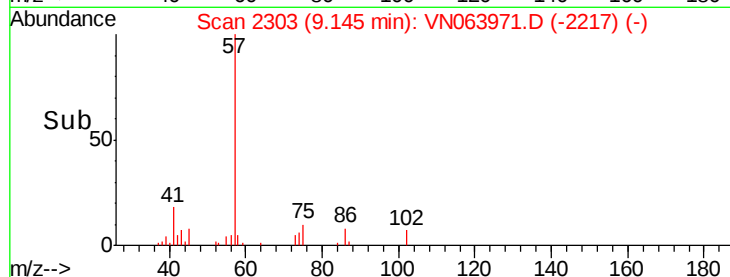
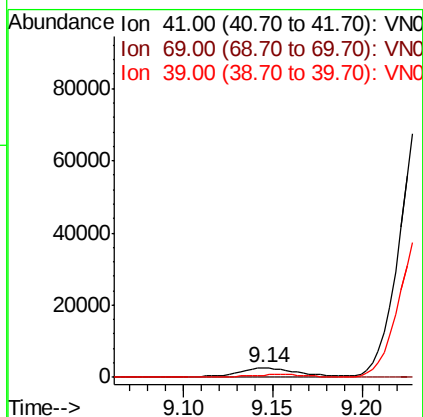
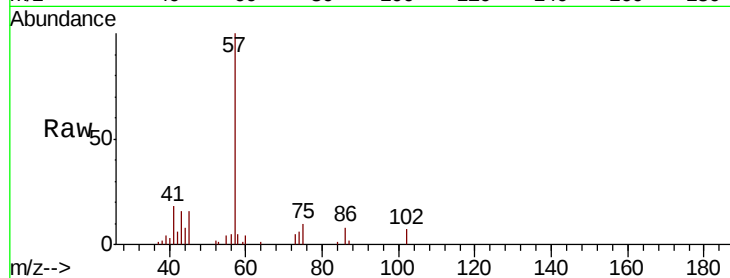




#48
Methyl methacrylate
Concen: 1.656 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN063971.D
Acq: 8 Oct 2020 4:05

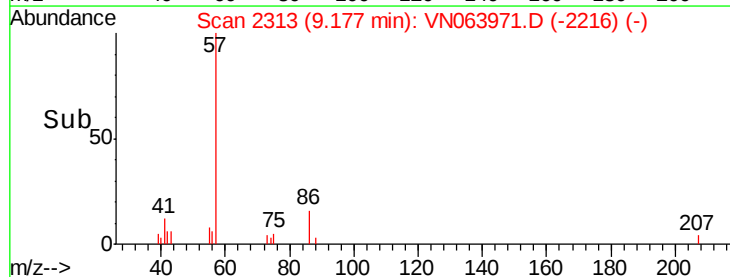
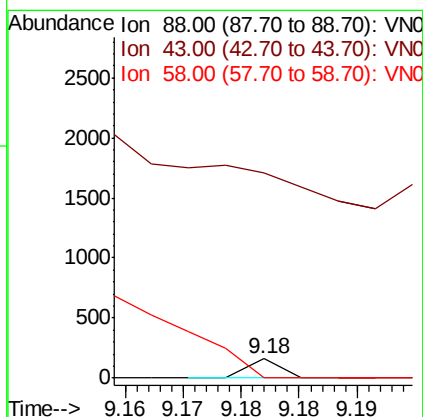
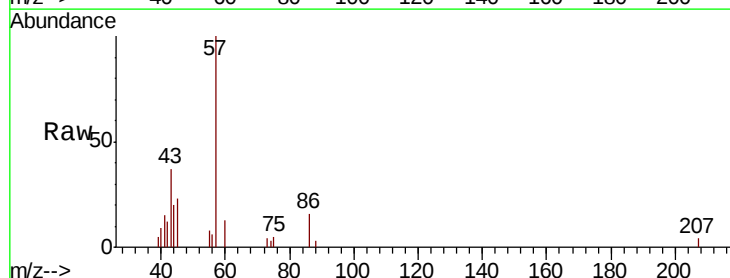
Instrument :
MSVOA_N
ClientSampleId :
SU-04-100620

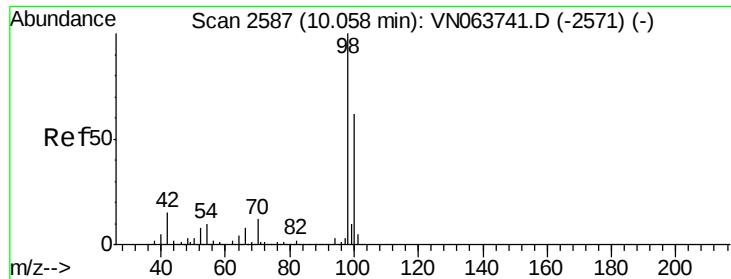
Tot Ion: 41 Resp: 6132
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 0.0 57.5 86.3#



#49
1,4-Dioxane
Concen: 0.589 ug/l
RT: 9.18 min Scan# 2313
Delta R.T. 0.01 min
Lab File: VN063971.D
Acq: 8 Oct 2020 4:05

Tgt Ion: 88 Resp: 31
Ion Ratio Lower Upper
88 100
43 0.0 33.1 49.7#
58 5267.7 58.9 88.3#





#50

Toluene-d8

Concen: 48.201 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

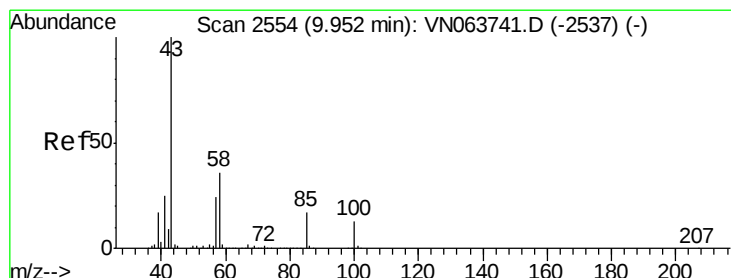
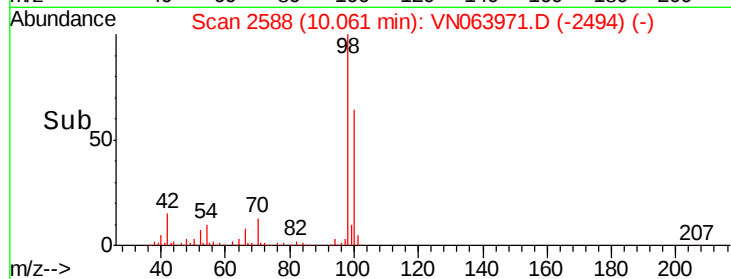
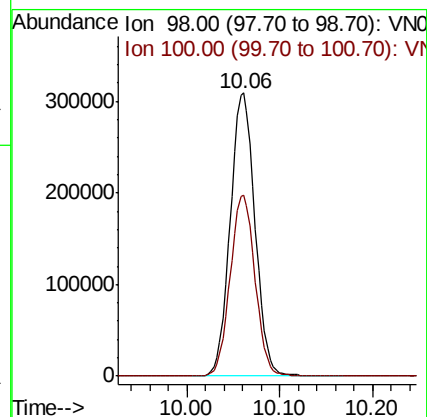
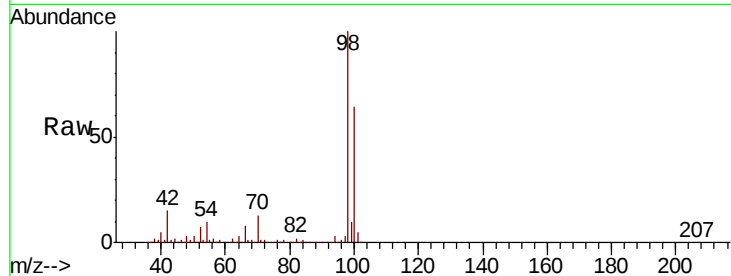
SU-04-100620

Tot Ion: 98 Resp: 572533

Ion Ratio Lower Upper

98 100

100 64.0 49.8 74.6



#51

4-Methyl-2-Pentanone

Concen: 1.747 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN063971.D

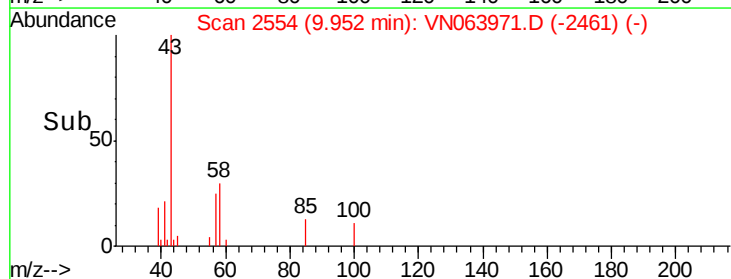
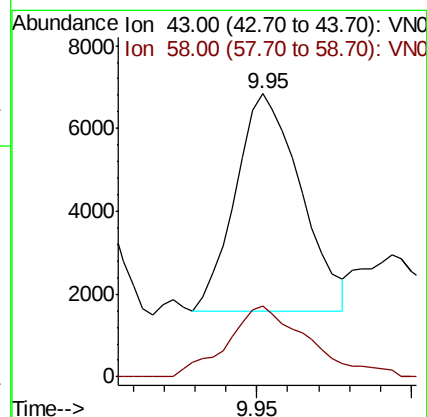
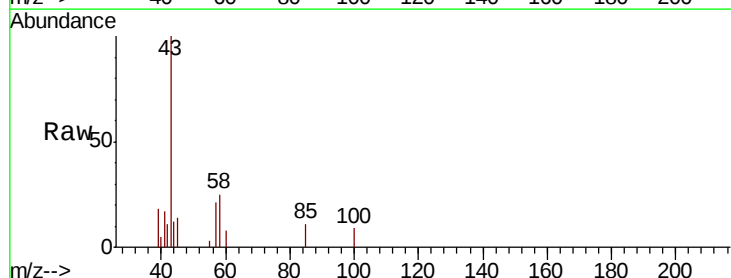
Acq: 8 Oct 2020 4:05

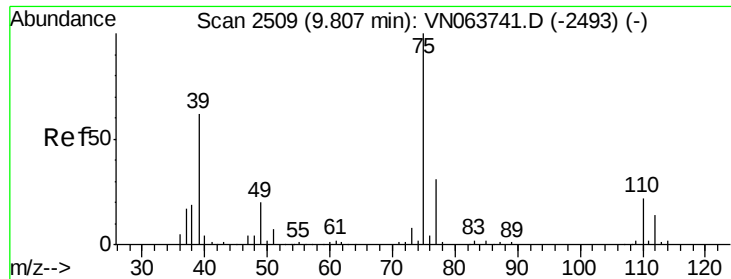
Tgt Ion: 43 Resp: 7686

Ion Ratio Lower Upper

43 100

58 40.6 28.4 42.6





#54

cis-1,3-Dichloropropene

Concen: 5.718 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

SU-04-100620

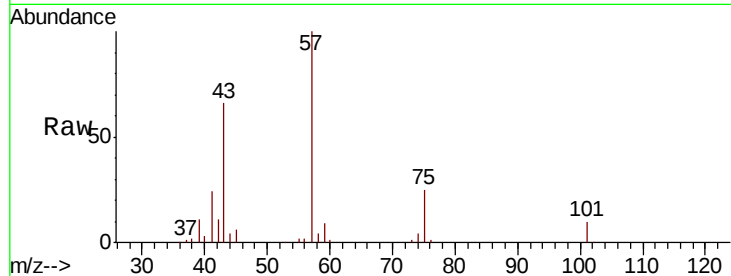
Tot Ion: 75 Resp: 32164

Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

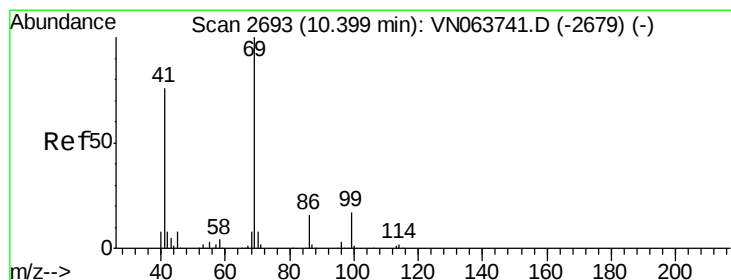
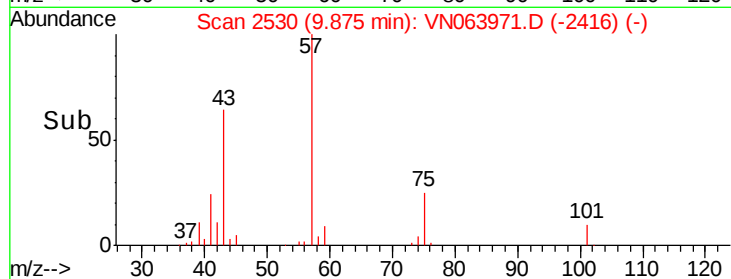
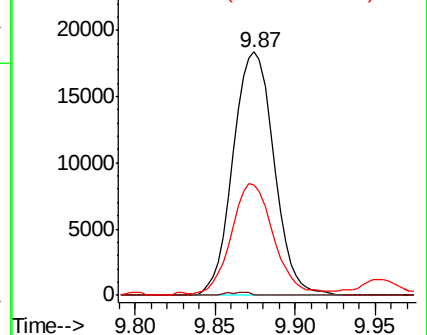
39 44.7 49.7 74.5#



Abundance Ion 74.90 (74.60 to 75.60): VN063971.D (-2493) (-)

Ion 76.90 (76.60 to 77.60): VN063971.D (-2493) (-)

Ion 39.00 (38.70 to 39.70): VN063971.D (-2493) (-)



#56

Ethyl methacrylate

Concen: 0.500 ug/l

RT: 10.51 min Scan# 2727

Delta R.T. 0.11 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

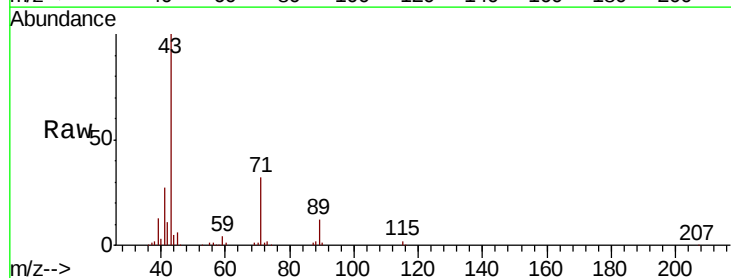
Tgt Ion: 69 Resp: 2295

Ion Ratio Lower Upper

69 100

41 3589.9 61.1 91.7#

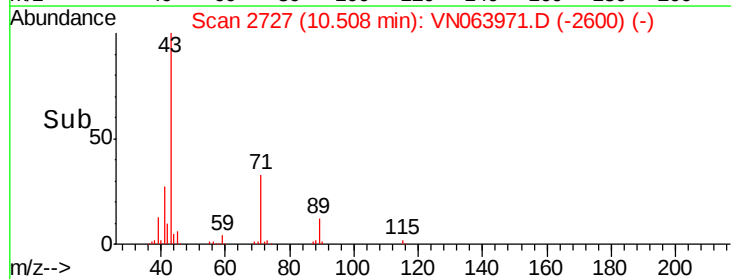
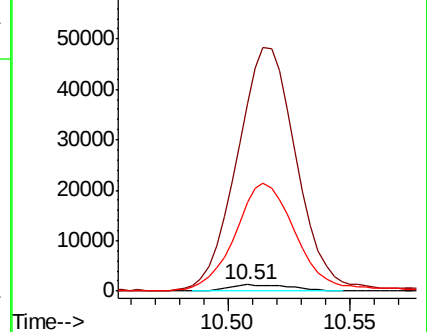
39 1638.5 42.2 63.4#

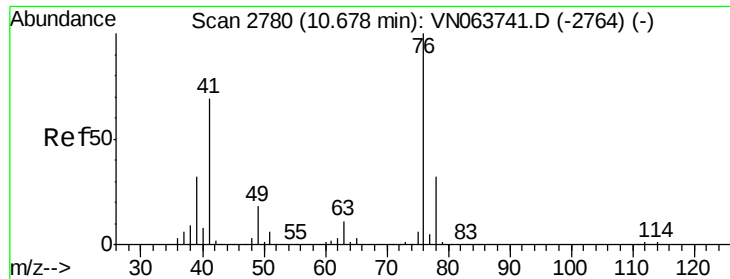


Abundance Ion 69.00 (68.70 to 69.70): VN063971.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN063971.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN063971.D (-2679) (-)

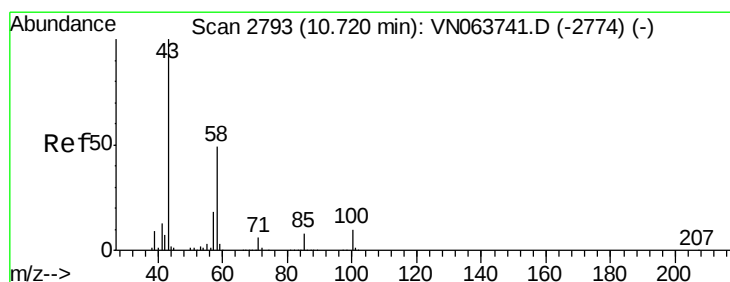
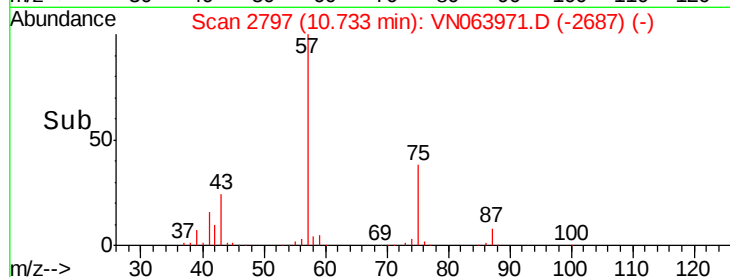
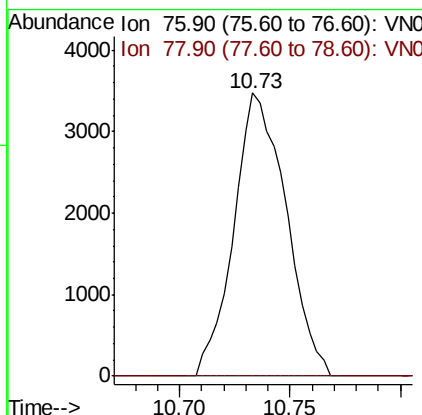
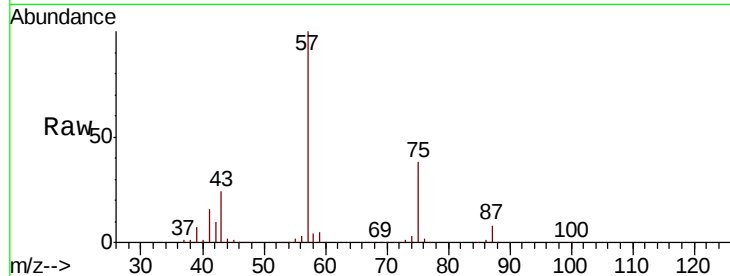




#57
 1,3-Dichloropropane
 Concen: 1.044 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.05 min
 Lab File: VN063971.D
 Acq: 8 Oct 2020 4:05

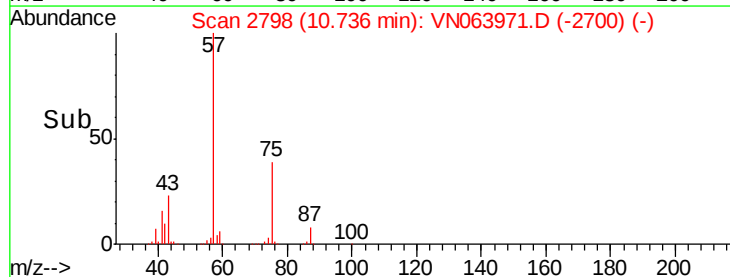
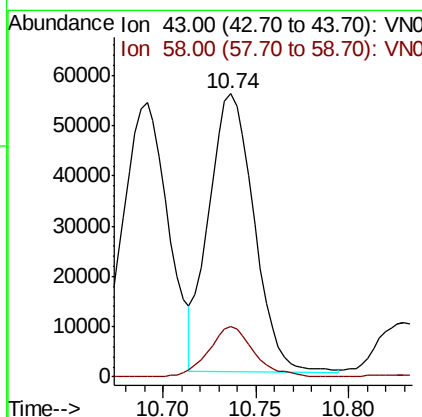
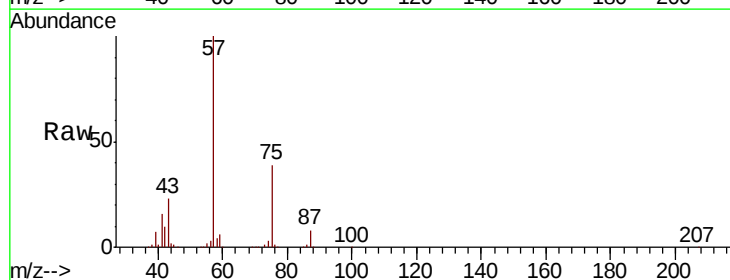
Instrument :
 MSVOA_N
 ClientSampleId :
 SU-04-100620

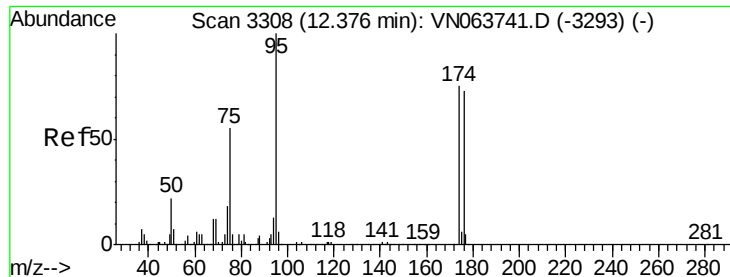
Tot Ion: 76 Resp: 5727
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.2 37.8#



#59
 2-Hexanone
 Concen: 28.586 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN063971.D
 Acq: 8 Oct 2020 4:05

Tgt Ion: 43 Resp: 93425
 Ion Ratio Lower Upper
 43 100
 58 18.1 24.6 73.8#





#62

4-Bromofluorobenzene

Concen: 50.017 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

SU-04-100620

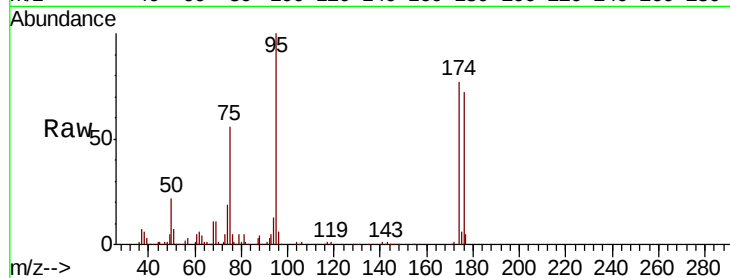
Tot Ion: 95 Resp: 223329

Ion Ratio Lower Upper

95 100

174 76.5 0.0 150.6

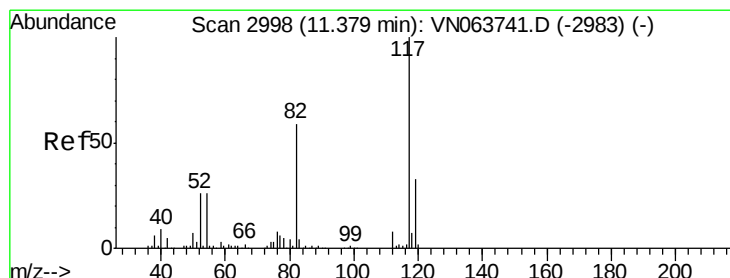
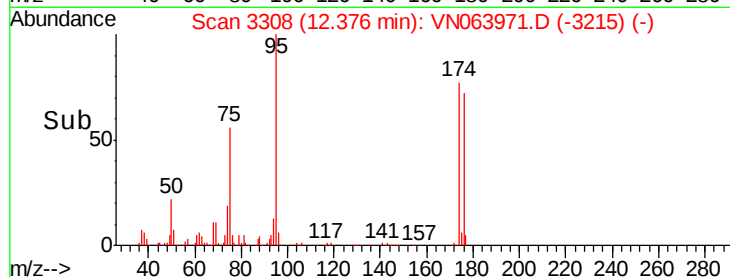
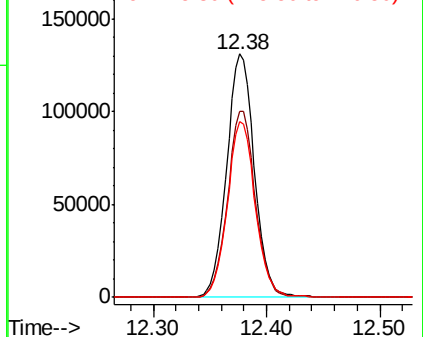
176 72.8 0.0 145.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

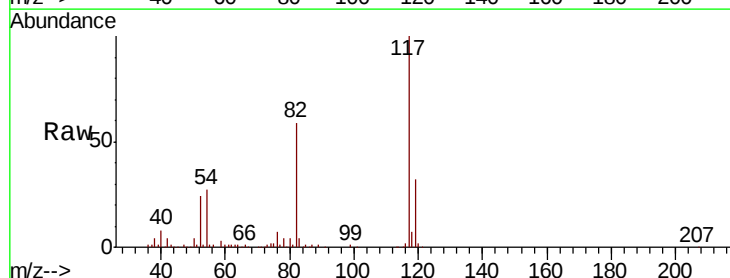
Tgt Ion: 117 Resp: 466915

Ion Ratio Lower Upper

117 100

82 59.1 47.4 71.2

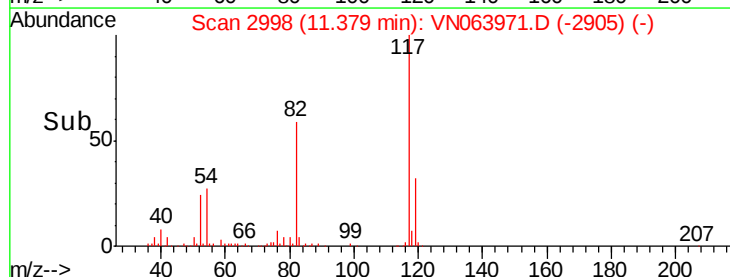
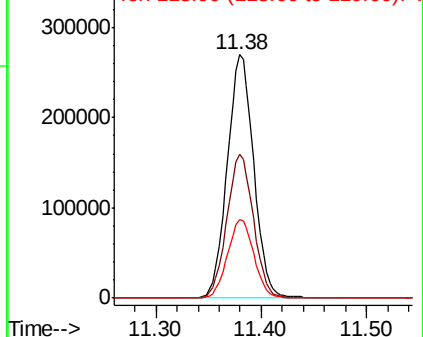
119 32.4 26.4 39.6

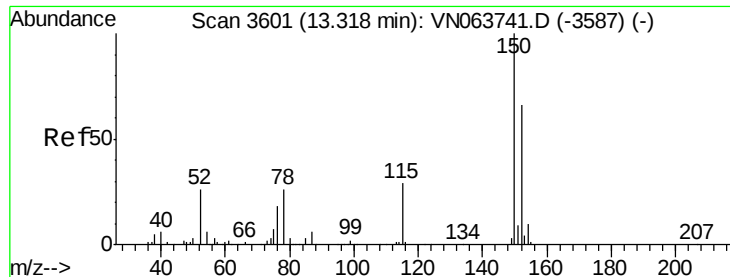


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

SU-04-100620

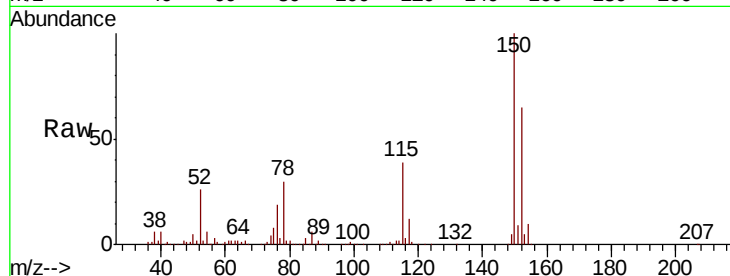
Tot Ion:152 Resp: 193300

Ion Ratio Lower Upper

152 100

115 60.7 31.3 93.8

150 154.6 0.0 341.8

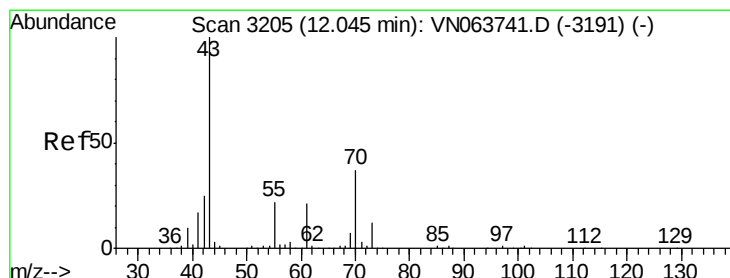
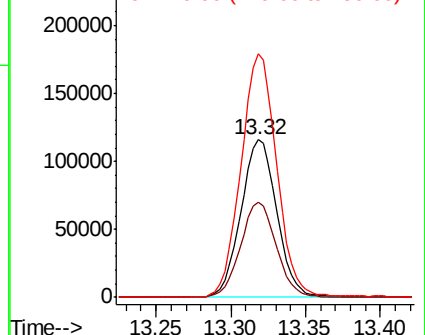
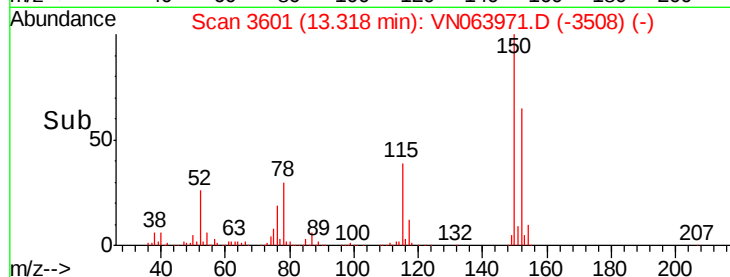


Abundance

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-ethyl acetate

Concen: 2.994 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

Tgt Ion: 43 Resp: 5332

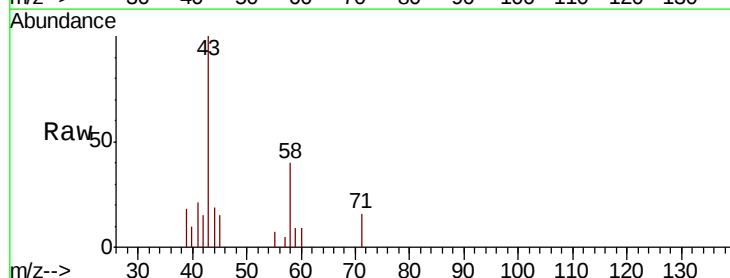
Ion Ratio Lower Upper

43 100

70 1.3 29.8 44.8#

55 0.0 17.9 26.9#

61 0.0 17.0 25.4#



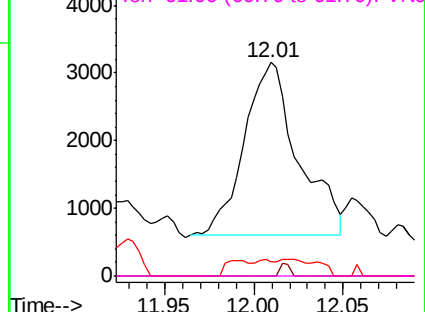
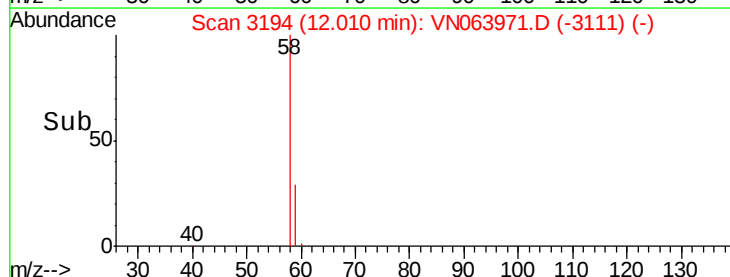
Abundance

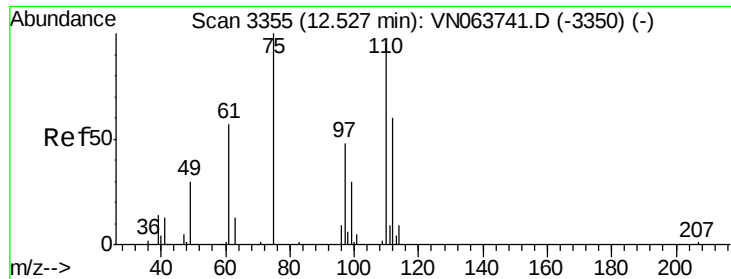
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 29.155 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

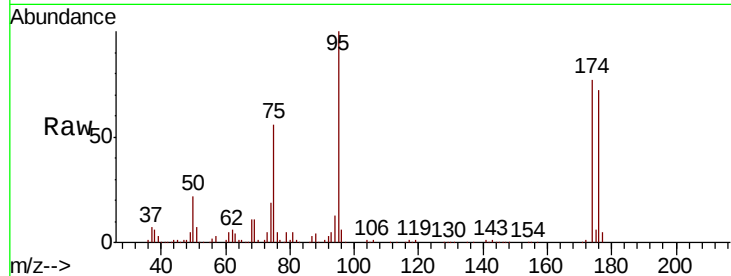
SU-04-100620

Tot Ion: 75 Resp: 124234

Ion Ratio Lower Upper

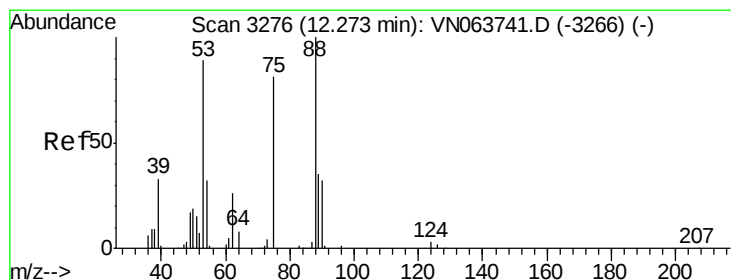
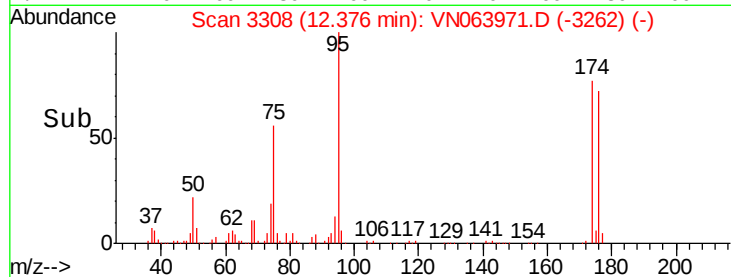
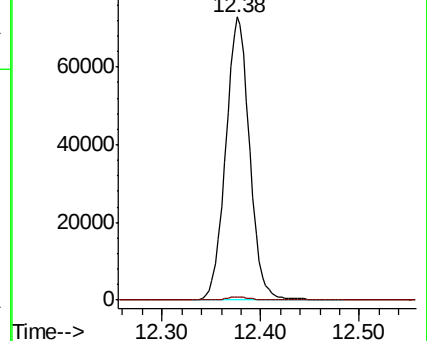
75 100

77 1.0 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: 83.972 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

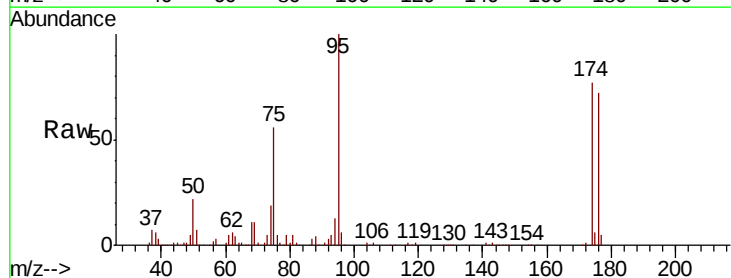
Tgt Ion: 75 Resp: 124234

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

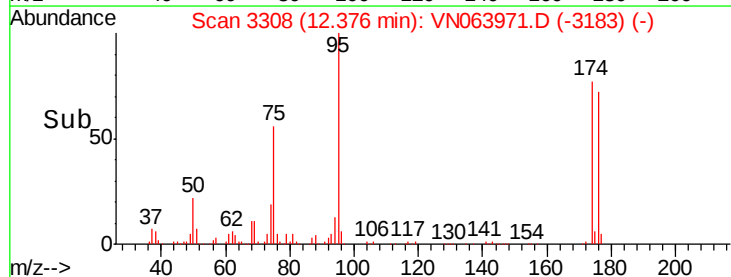
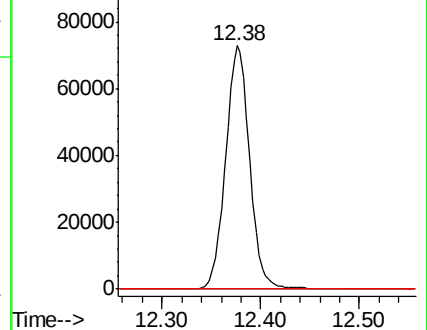
89 0.0 36.0 54.0#

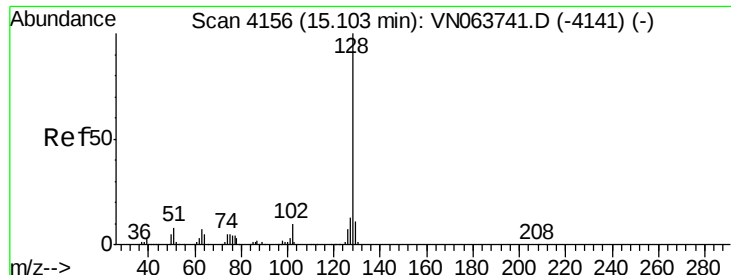


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: 2.006 ug/l

RT: 15.12 min Scan# 4162

Delta R.T. 0.02 min

Lab File: VN063971.D

Acq: 8 Oct 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

SU-04-100620

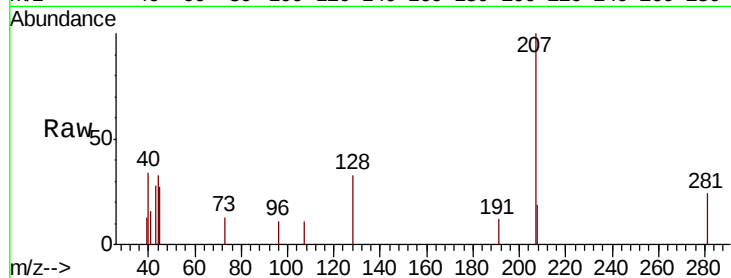
Tot Ion:128 Resp: 890

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

