

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102820\
 Data File : VN064361.D
 Acq On : 28 Oct 2020 18:43
 Operator : JC/MD
 Sample : L4528-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CHRT-27339

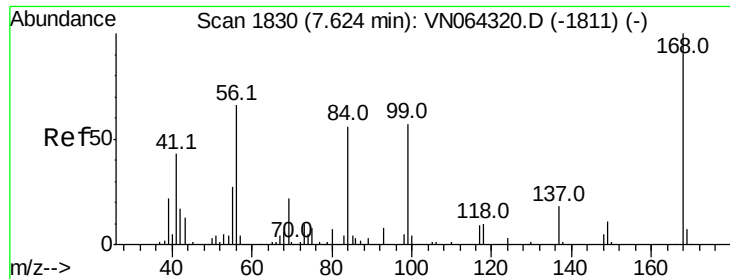
Quant Time: Oct 29 02:44:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 12:23:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	247212	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	438258	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	432344	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	178681	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	196955	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
35) Dibromofluoromethane	7.55	113	144508	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
50) Toluene-d8	10.06	98	540358	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
62) 4-Bromofluorobenzene	12.38	95	233308	55.35	ug/l	0.00
Spiked Amount			Recovery	=	110.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	446	0.773	ug/l #	70
16) Acetone	3.78	43	16653	5.099	ug/l	95
18) Methyl Acetate	4.27	43	3323	1.114	ug/l #	75
20) Methylene Chloride	4.50	84	6008	2.132	ug/l	90
25) 2-Butanone	6.78	43	2572	1.289	ug/l #	86
29) Tetrahydrofuran	7.16	42	347	0.268	ug/l #	37
31) Cyclohexane	7.62	56	6090	1.321	ug/l #	23
36) 1,1-Dichloropropene	7.62	75	21645	4.894	ug/l #	51
38) Carbon Tetrachloride	7.62	117	26970	5.260	ug/l #	17
43) Isopropyl Acetate	8.13	43	91344	11.960	ug/l #	88
45) 1,2-Dichloropropane	9.23	63	1042	0.316	ug/l #	44
48) Methyl methacrylate	9.14	41	4204	1.067	ug/l #	15
49) 1,4-Dioxane	9.22	88	147	2.531	ug/l #	20
51) 4-Methyl-2-Pentanone	9.96	43	7112	1.602	ug/l	100
54) cis-1,3-Dichloropropene	9.87	75	31687	5.696	ug/l #	64
56) Ethyl methacrylate	10.51	69	1084	0.234	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	4678	0.894	ug/l #	42
59) 2-Hexanone	10.74	43	76963	23.539	ug/l #	52
74) N-amyl acetate	12.00	43	3959	0.672	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	124447	29.084	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	124447	83.776	ug/l #	8
95) Naphthalene	15.10	128	186	2.410	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.23	180	72	2.204	ug/l #	14

(#) = 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: VN064361.D

Acq: 28 Oct 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

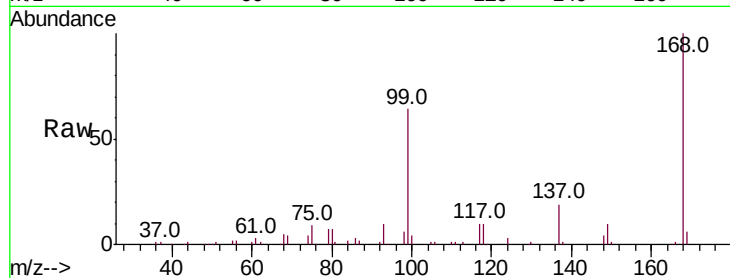
CHRT-27339

Tot Ion:168 Resp: 247212

Ion Ratio Lower Upper

168 100

99 63.7 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

120000

100000

80000

60000

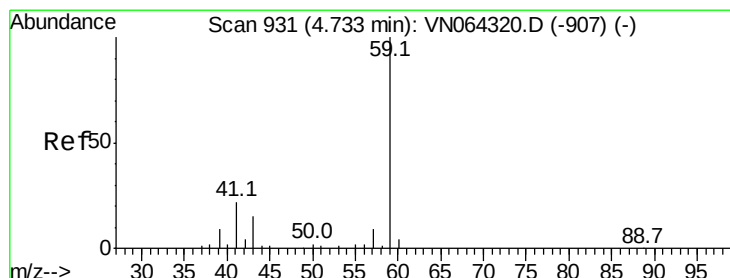
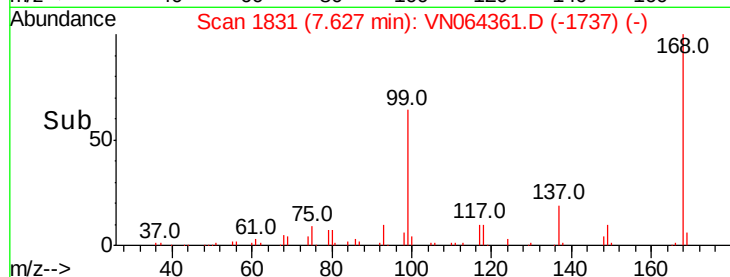
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#11

Tert butyl alcohol

Concen: 0.773 ug/l

RT: 4.73 min Scan# 929

Delta R.T. -0.01 min

Lab File: VN064361.D

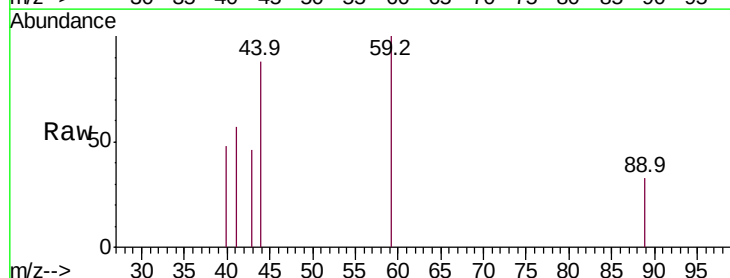
Acq: 28 Oct 2020 18:43

Tgt Ion: 59 Resp: 446

Ion Ratio Lower Upper

59 100

57 0.0 9.4 14.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.73

500

400

300

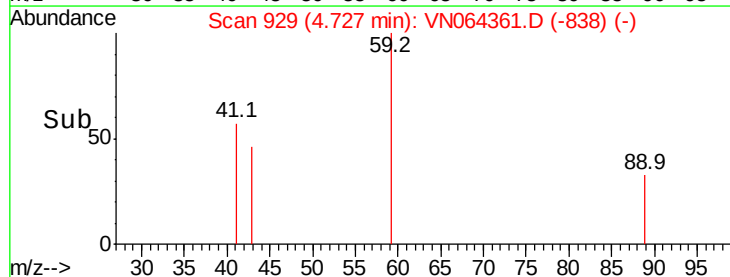
200

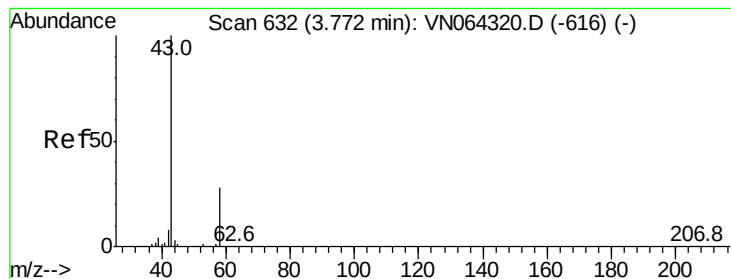
100

0

Time-->

4.71 4.72 4.73 4.74





#16

Acetone

Concen: 5.099 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064361.D

Acq: 28 Oct 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

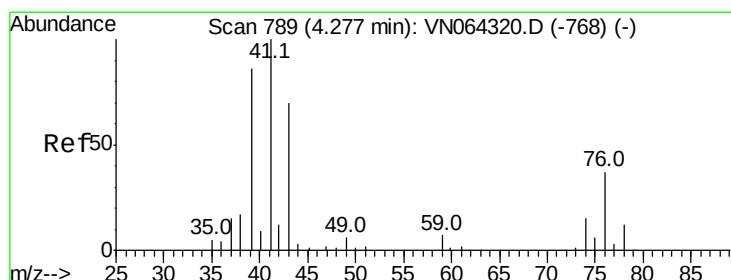
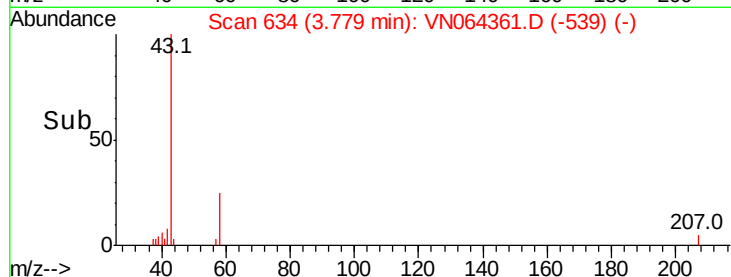
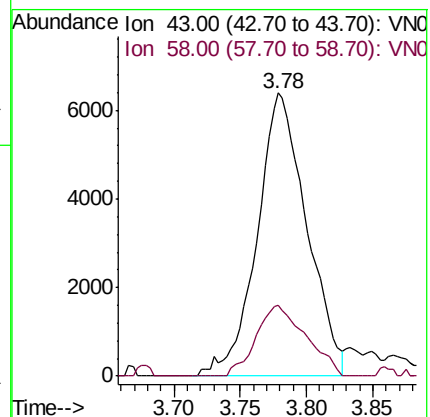
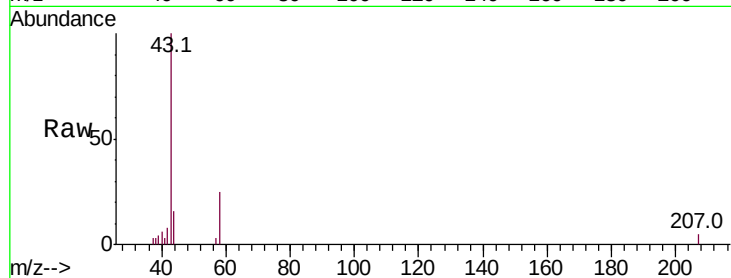
CHRT-27339

Tot Ion: 43 Resp: 16653

Ion Ratio Lower Upper

43 100

58 24.8 22.1 33.1



#18

Methyl Acetate

Concen: 1.114 ug/l

RT: 4.27 min Scan# 788

Delta R.T. -0.00 min

Lab File: VN064361.D

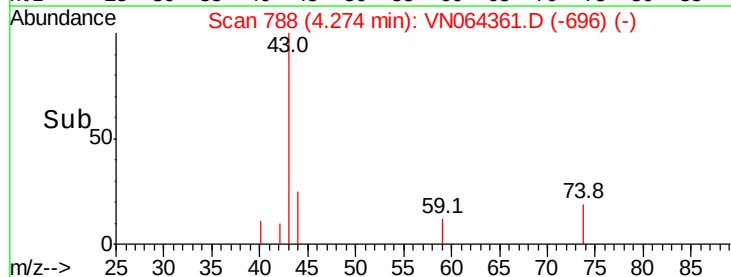
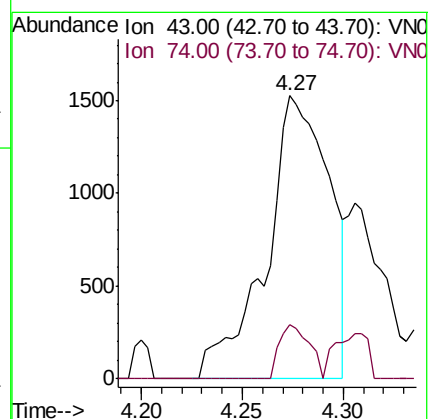
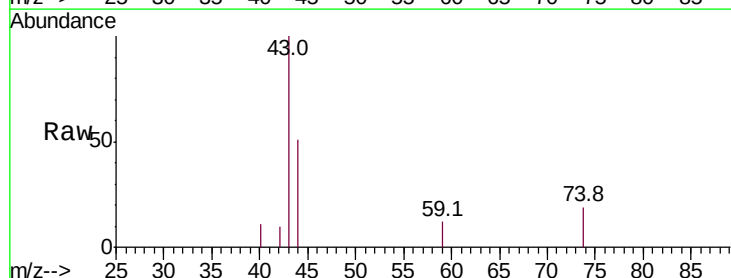
Acq: 28 Oct 2020 18:43

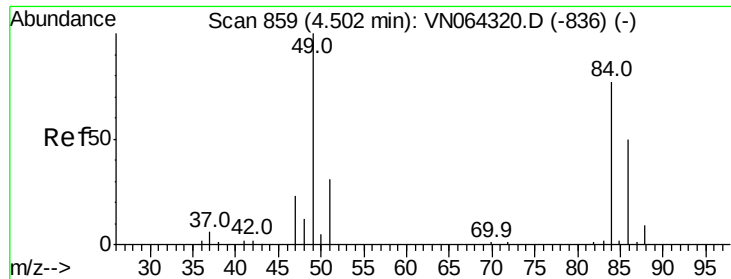
Tgt Ion: 43 Resp: 3323

Ion Ratio Lower Upper

43 100

74 9.0 16.7 25.1#

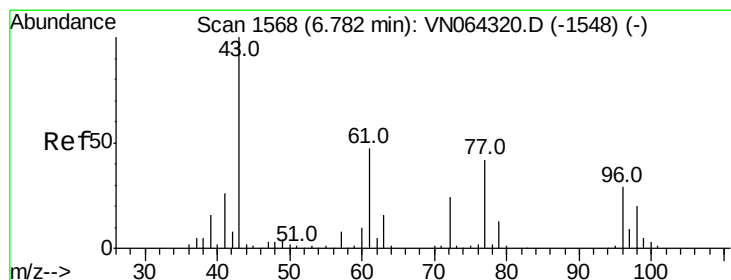
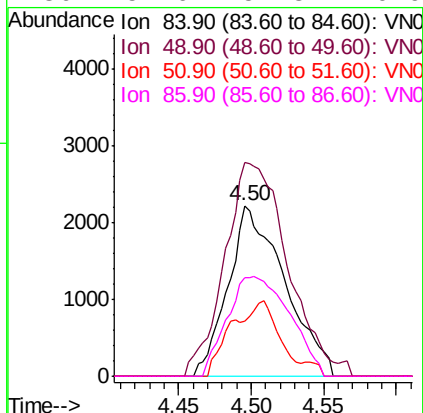
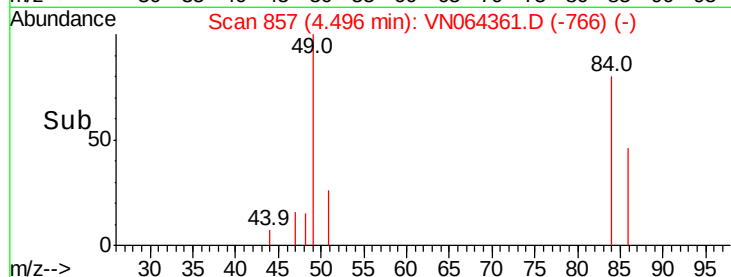
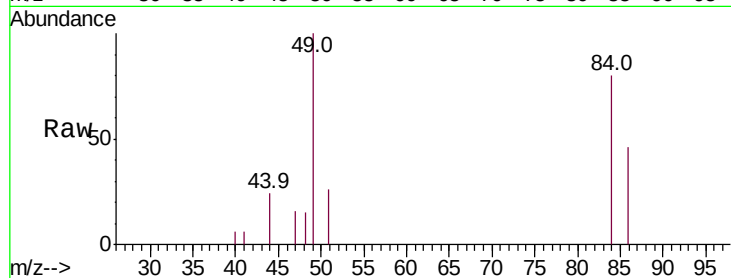




#20
Methvlene Chloride
Concen: 2.132 ug/l
RT: 4.50 min Scan# 857
Delta R.T. -0.01 min
Lab File: VN064361.D
Acq: 28 Oct 2020 18:43

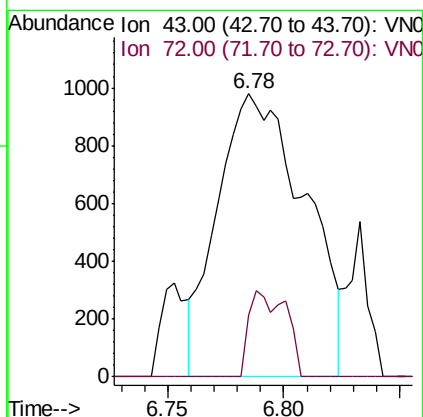
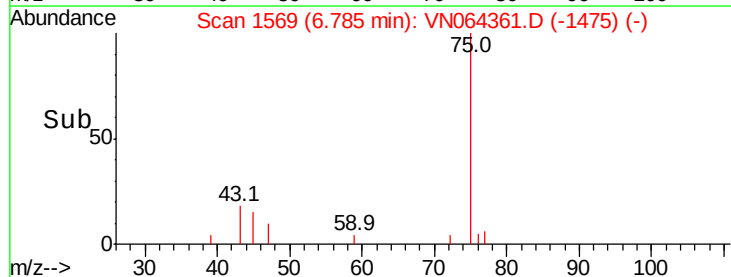
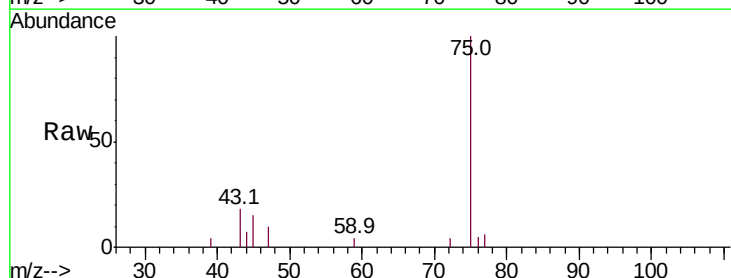
Instrument :
MSVOA_N
ClientSampleId :
CHRT-27339

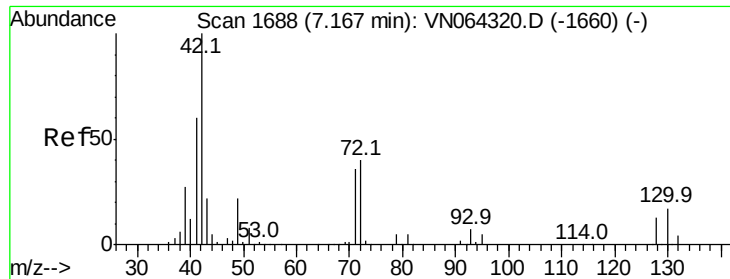
Tot Ion: 84 Resp: 6008
Ion Ratio Lower Upper
84 100
49 117.4 103.6 155.4
51 32.4 31.8 47.8
86 57.6 51.3 76.9



#25
2-Butanone
Concen: 1.289 ug/l
RT: 6.78 min Scan# 1569
Delta R.T. 0.00 min
Lab File: VN064361.D
Acq: 28 Oct 2020 18:43

Tgt Ion: 43 Resp: 2572
Ion Ratio Lower Upper
43 100
72 30.1 18.8 28.2#





#29

Tetrahydrofuran

Concen: 0.268 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN064361.D

Acq: 28 Oct 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

CHRT-27339

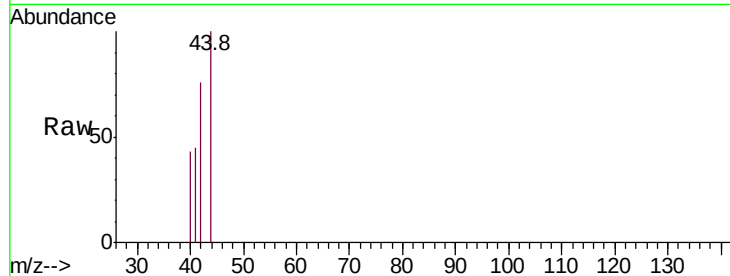
Tot Ion: 42 Resp: 347

Ion Ratio Lower Upper

42 100

72 0.0 31.6 47.4#

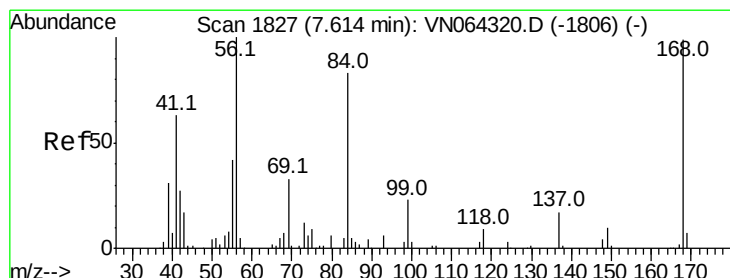
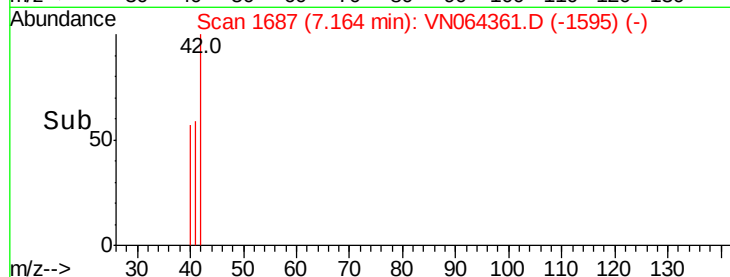
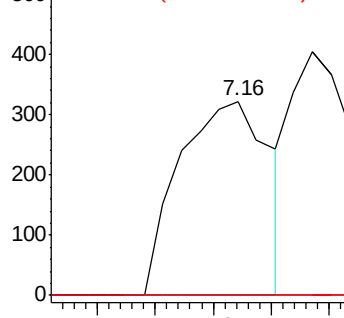
71 0.0 29.4 44.0#



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: 1.321 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064361.D

Acq: 28 Oct 2020 18:43

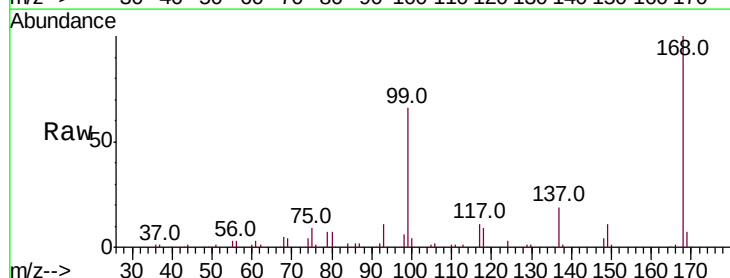
Tgt Ion: 56 Resp: 6090

Ion Ratio Lower Upper

56 100

69 168.8 25.8 38.8#

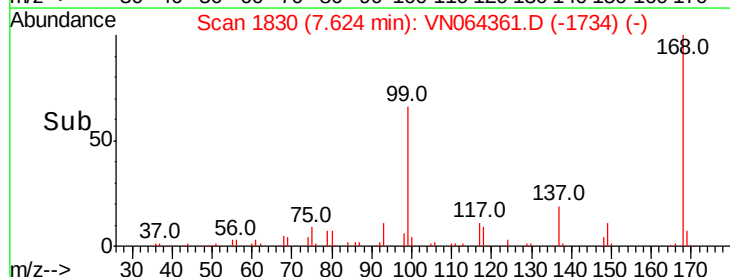
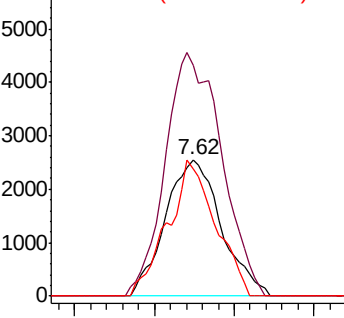
84 93.6 66.3 99.5

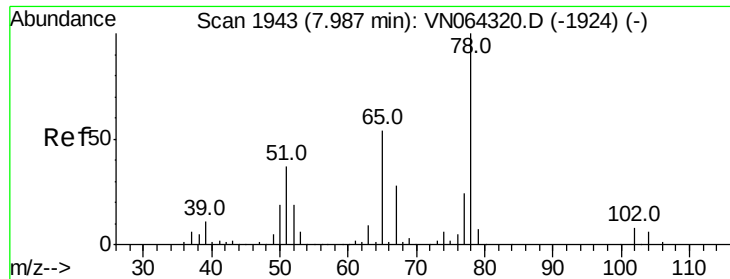


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

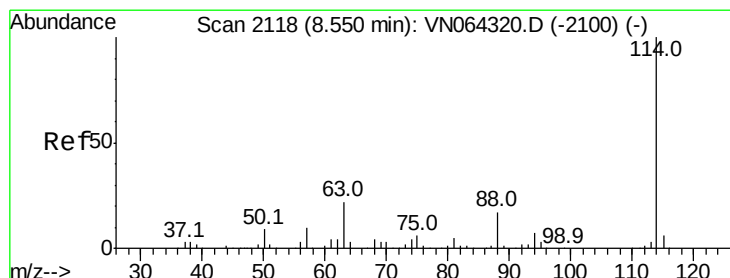
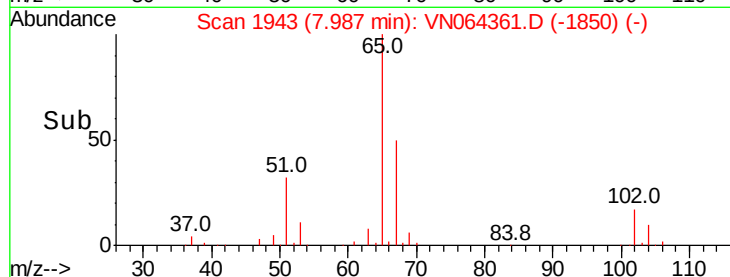
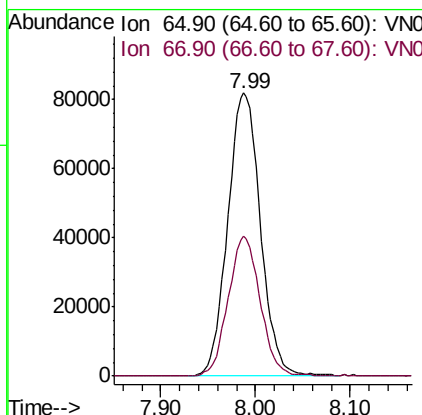
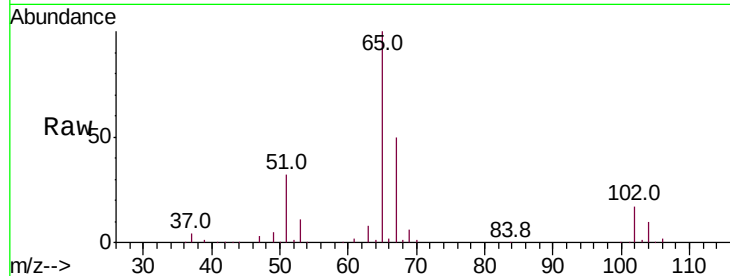




#33
 1,2-Dichloroethane-d4
 Concen: 49.578 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064361.D
 Acq: 28 Oct 2020 18:43

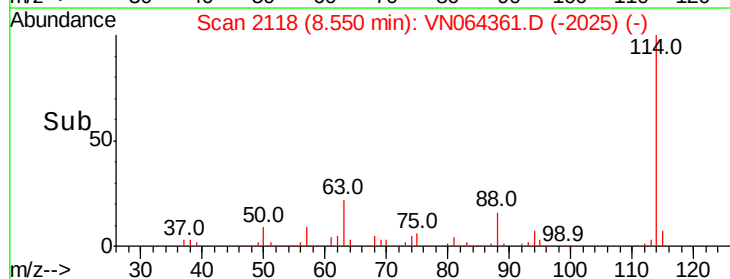
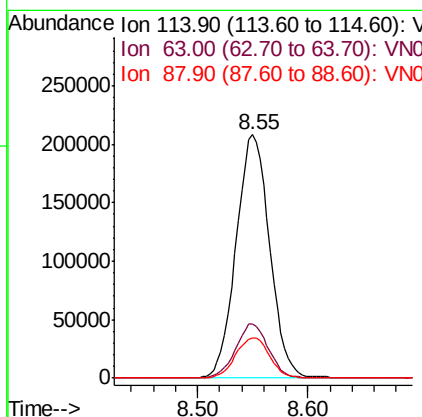
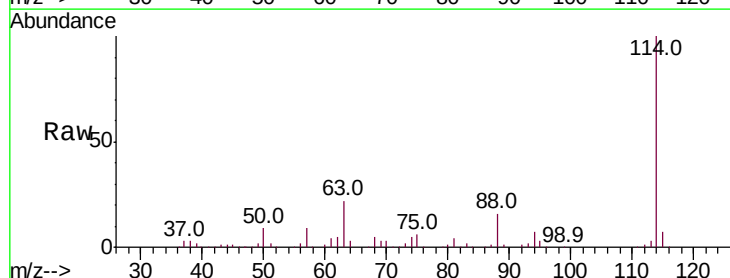
Instrument :
 MSVOA_N
 ClientSampleId :
 CHRT-27339

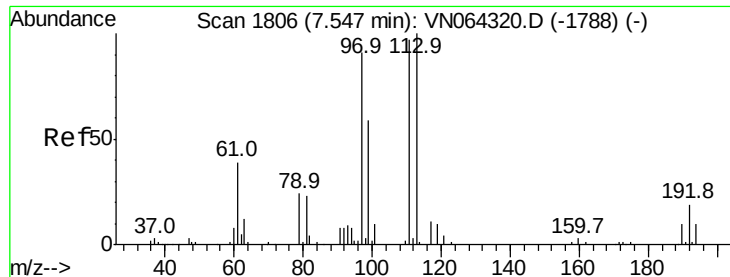
Tot Ion: 65 Resp: 196955
 Ion Ratio Lower Upper
 65 100
 67 48.3 0.0 99.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064361.D
 Acq: 28 Oct 2020 18:43

Tgt Ion: 114 Resp: 438258
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 44.6
 88 16.3 0.0 33.4

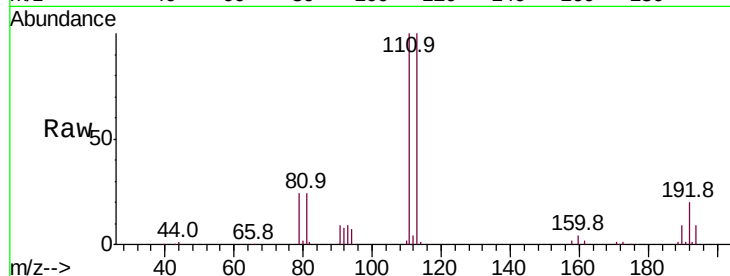




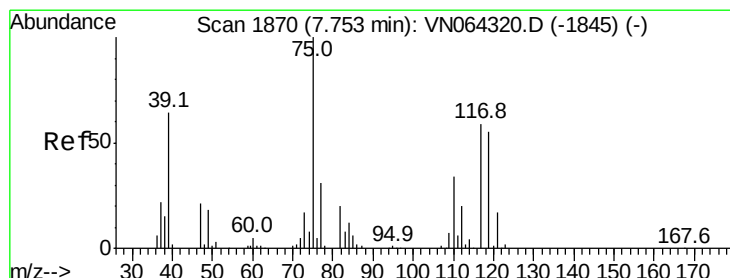
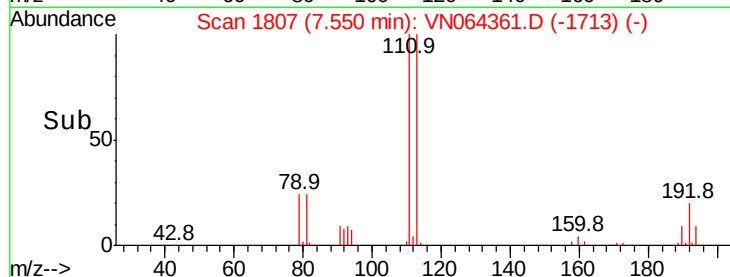
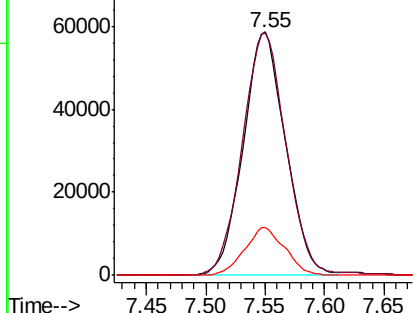
#35
 Dibromofluoromethane
 Concen: 49.444 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064361.D
 Acq: 28 Oct 2020 18:43

Instrument :
 MSVOA_N
 ClientSampleId :
 CHRT-27339

Tot Ion:113 Resp: 144508
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.5 122.3
 192 18.6 15.0 22.4

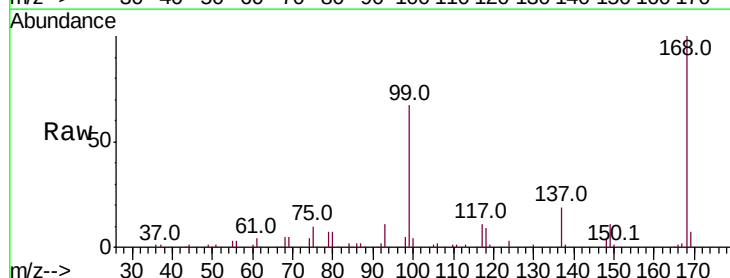


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

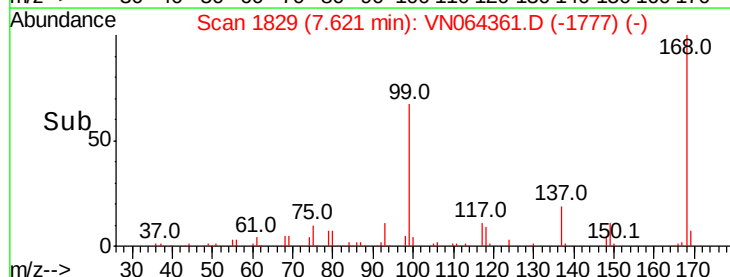
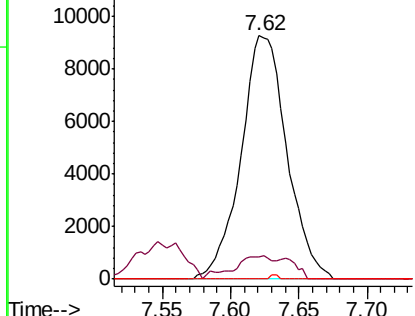


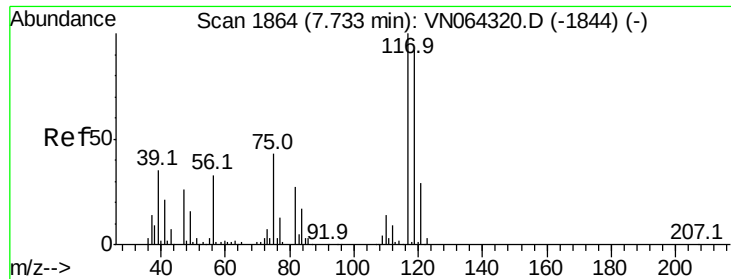
#36
 1,1-Dichloropropene
 Concen: 4.894 ug/l
 RT: 7.62 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN064361.D
 Acq: 28 Oct 2020 18:43

Tgt Ion: 75 Resp: 21645
 Ion Ratio Lower Upper
 75 100
 110 8.3 16.8 50.3#
 77 0.3 24.2 36.4#



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: 5.260 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064361.D

Acq: 28 Oct 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

CHRT-27339

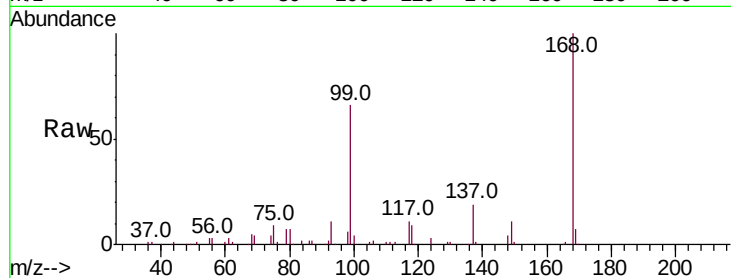
Tot Ion:117 Resp: 26970

Ion Ratio Lower Upper

117 100

119 4.2 73.7 110.5#

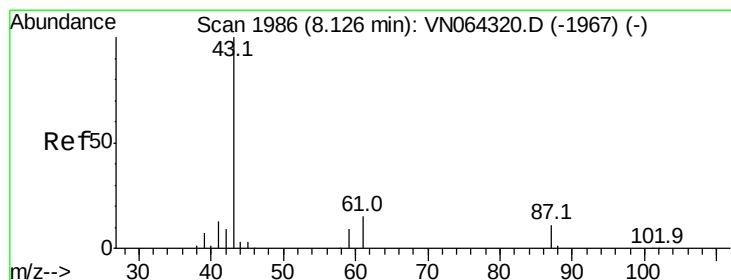
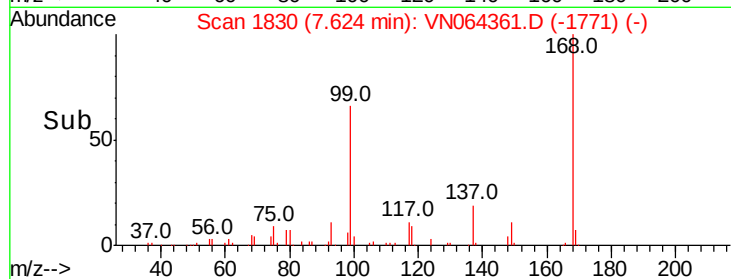
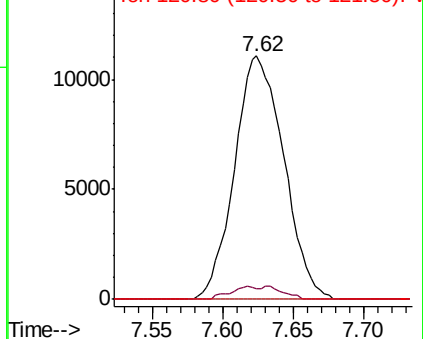
121 0.0 22.8 34.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 11.960 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064361.D

Acq: 28 Oct 2020 18:43

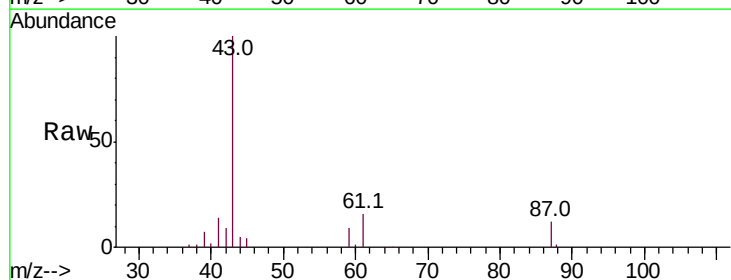
Tgt Ion: 43 Resp: 91344

Ion Ratio Lower Upper

43 100

61 16.1 19.1 28.7#

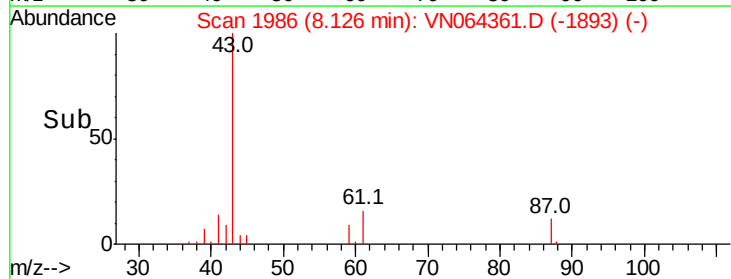
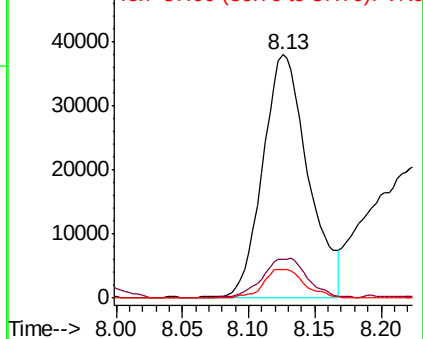
87 10.6 9.3 13.9

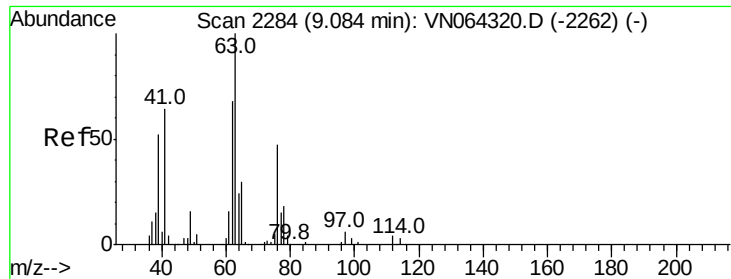


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#45

1,2-Dichloropropane

Concen: 0.316 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN064361.D

Acq: 28 Oct 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

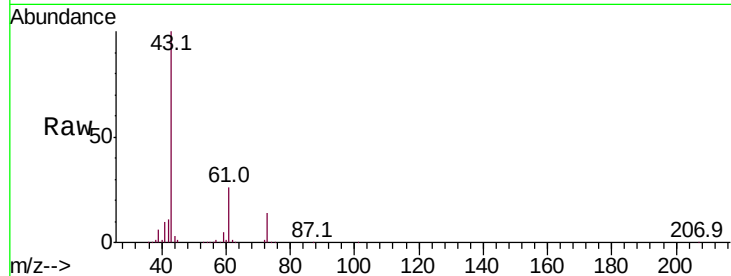
CHRT-27339

Tot Ion: 63 Resp: 1042

Ion Ratio Lower Upper

63 100

65 0.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

800

600

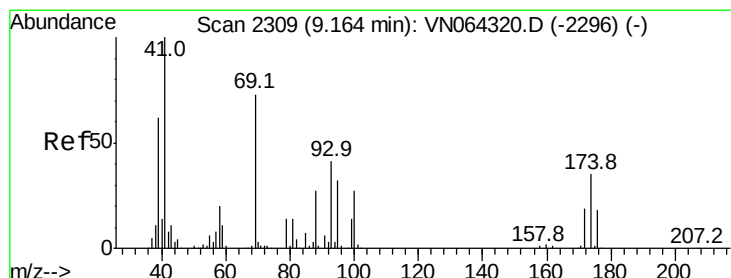
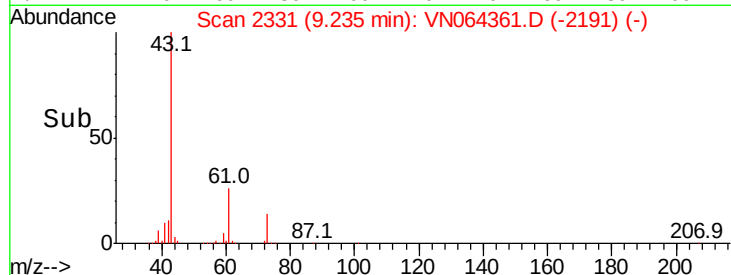
400

200

0

9.20 9.22 9.24 9.26

Time-->



#48

Methyl methacrylate

Concen: 1.067 ug/l

RT: 9.14 min Scan# 2301

Delta R.T. -0.03 min

Lab File: VN064361.D

Acq: 28 Oct 2020 18:43

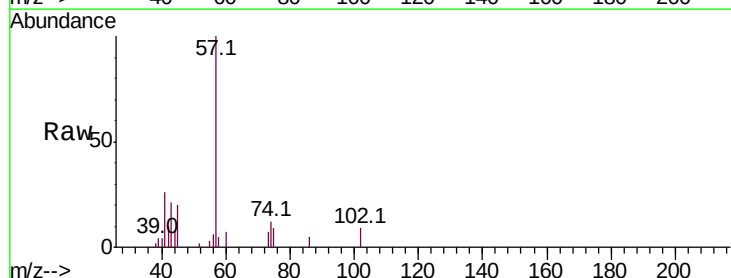
Tgt Ion: 41 Resp: 4204

Ion Ratio Lower Upper

41 100

69 0.0 59.1 88.7#

39 0.0 51.3 76.9#



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

60000

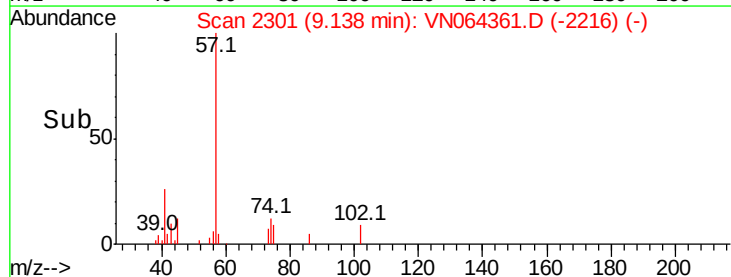
40000

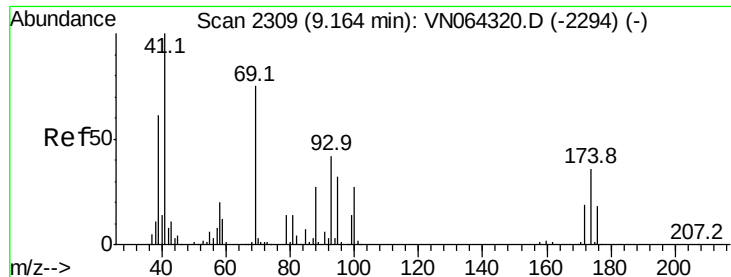
20000

0

9.10 9.15 9.20

Time-->





#49

1,4-Dioxane

Concen: 2.531 ug/l

RT: 9.22 min Scan# 2326

Delta R.T. 0.05 min

Lab File: VN064361.D

Acq: 28 Oct 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

CHRT-27339

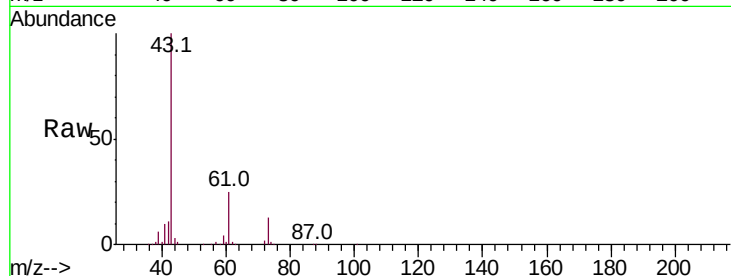
Tot Ion: 88 Resp: 147

Ion Ratio Lower Upper

88 100

43 0.0 31.8 47.8#

58 0.0 60.3 90.5#



Abundance Ion 88.00 (87.70 to 88.70): VN064320.D (-2294) (-)

Ion 43.00 (42.70 to 43.70): VN064320.D (-2294) (-)

Ion 58.00 (57.70 to 58.70): VN064320.D (-2294) (-)

800000

600000

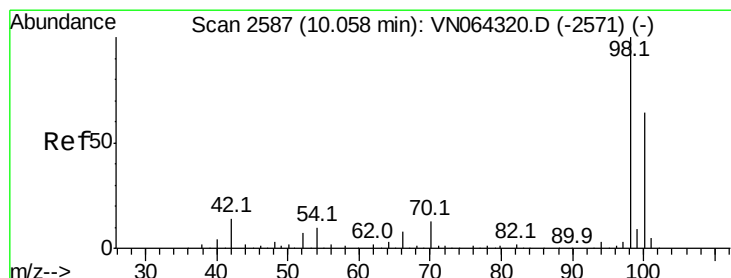
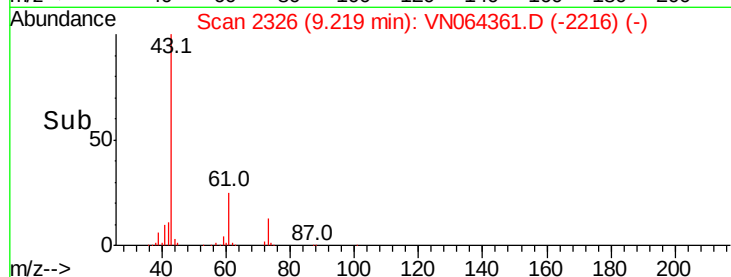
400000

200000

0

9.22

Time-->



#50

Toluene-d8

Concen: 49.985 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064361.D

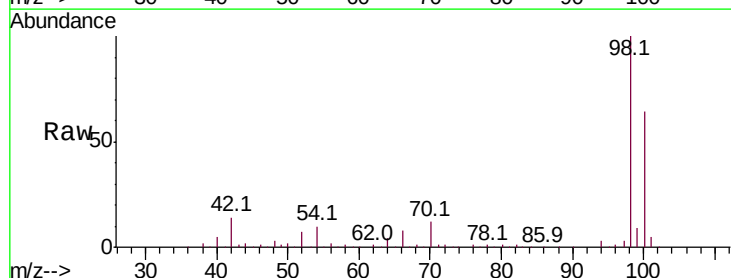
Acq: 28 Oct 2020 18:43

Tgt Ion: 98 Resp: 540358

Ion Ratio Lower Upper

98 100

100 64.8 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN064320.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN064320.D (-2571) (-)

300000

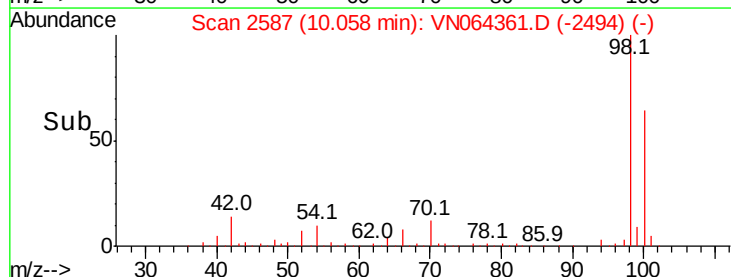
200000

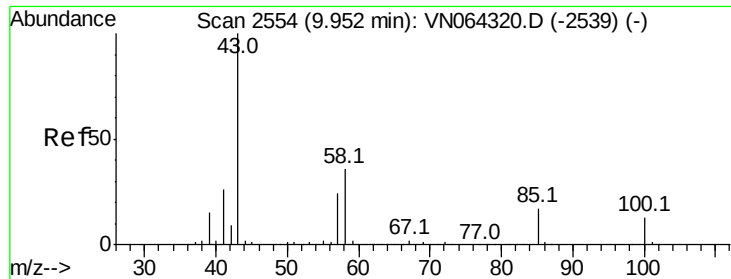
100000

0

10.06

Time-->

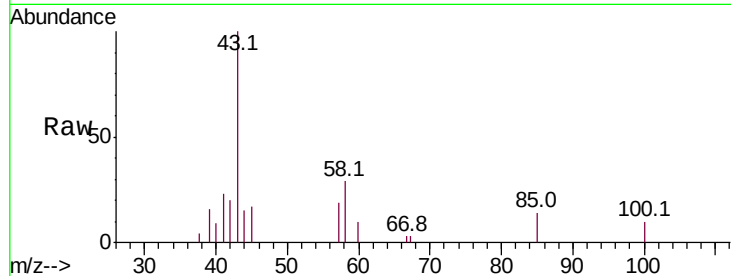




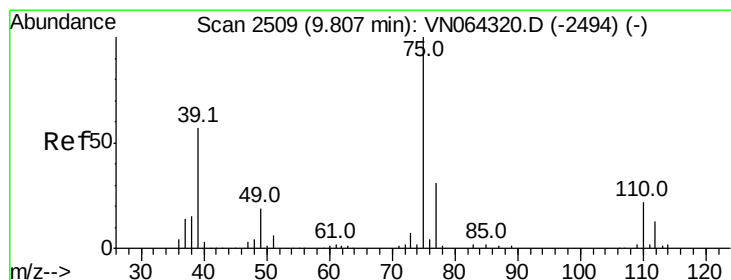
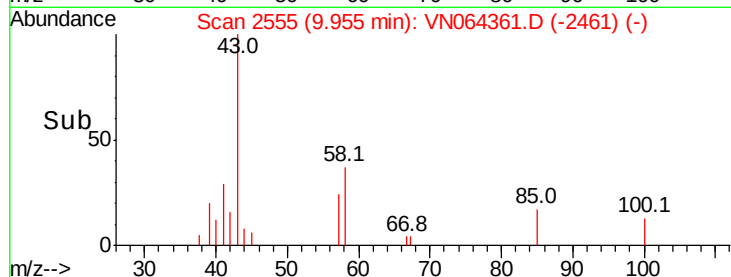
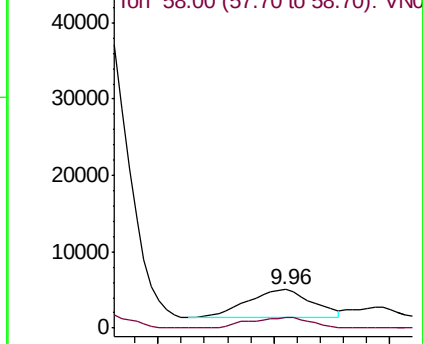
#51
 4-Methyl-2-Pentanone
 Concen: 1.602 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN064361.D
 Acq: 28 Oct 2020 18:43

Instrument :
 MSVOA_N
 ClientSampleId :
 CHRT-27339

Tot Ion: 43 Resp: 7112
 Ion Ratio Lower Upper
 43 100
 58 35.6 28.6 42.8

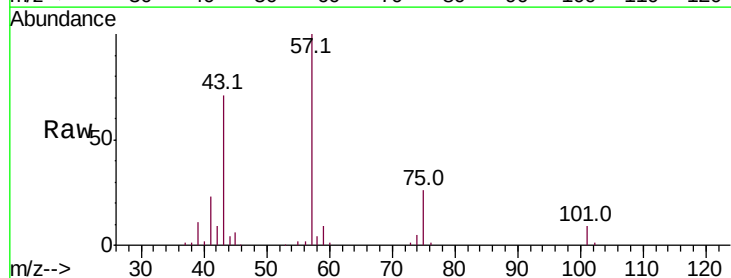


Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

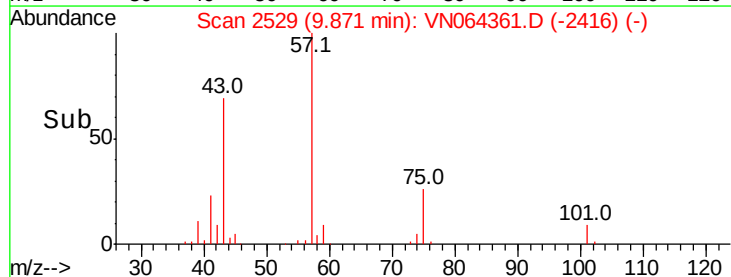
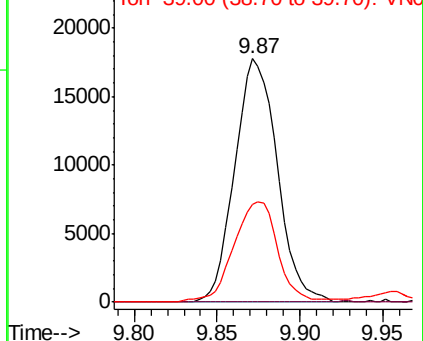


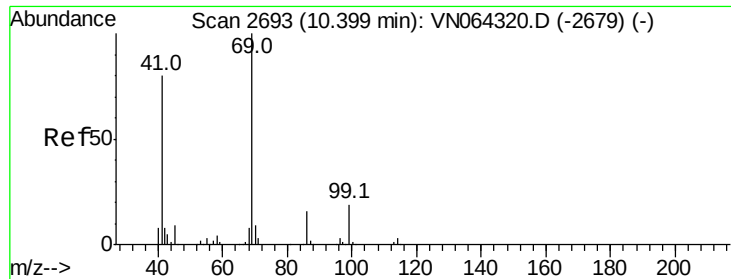
#54
 cis-1,3-Dichloropropene
 Concen: 5.696 ug/l
 RT: 9.87 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN064361.D
 Acq: 28 Oct 2020 18:43

Tgt Ion: 75 Resp: 31687
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.4#
 39 38.9 45.5 68.3#



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: 0.234 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN064361.D

Acq: 28 Oct 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

CHRT-27339

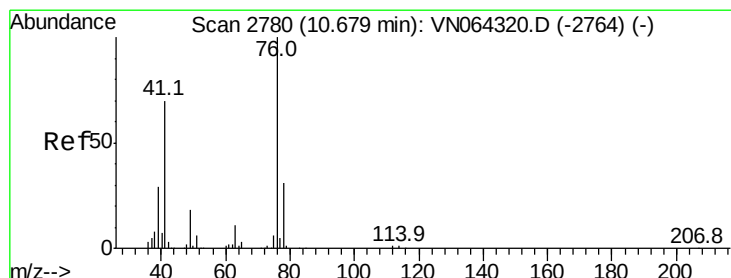
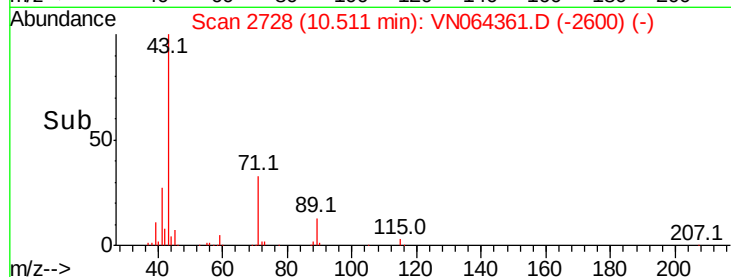
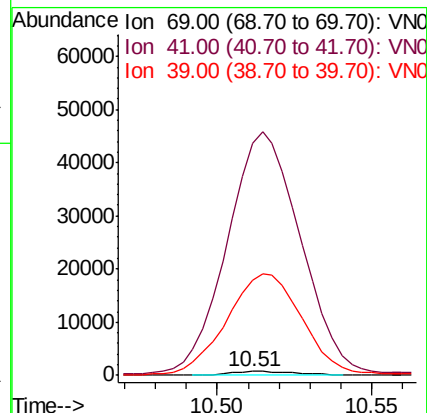
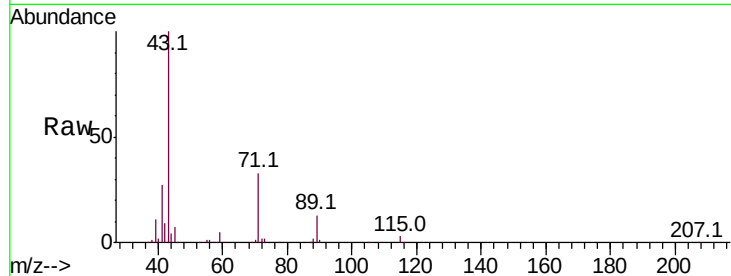
Tot Ion: 69 Resp: 1084

Ion Ratio Lower Upper

69 100

41 7045.7 61.4 92.2#

39 3013.9 36.5 54.7#



#57

1,3-Dichloropropane

Concen: 0.894 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064361.D

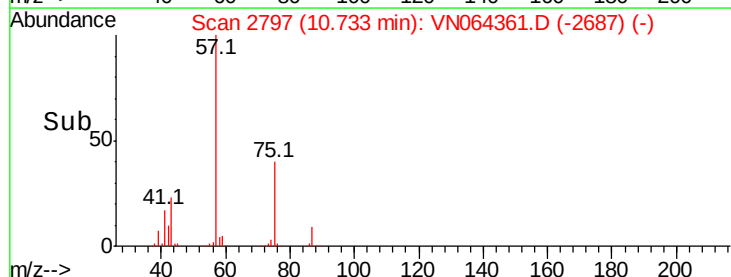
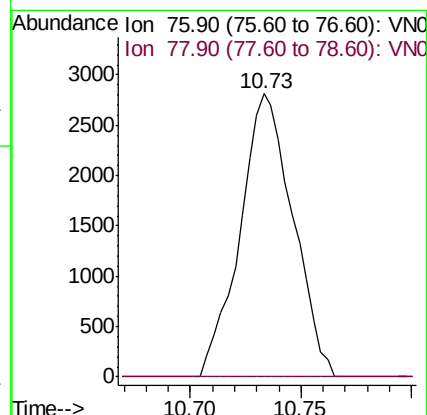
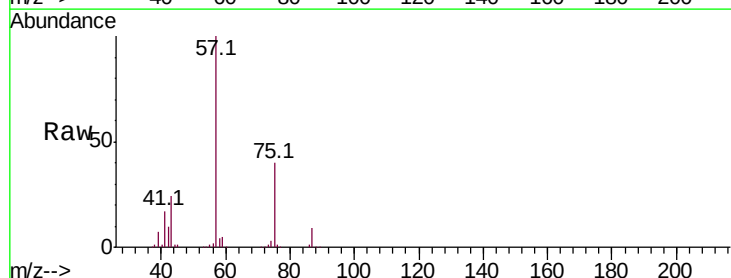
Acq: 28 Oct 2020 18:43

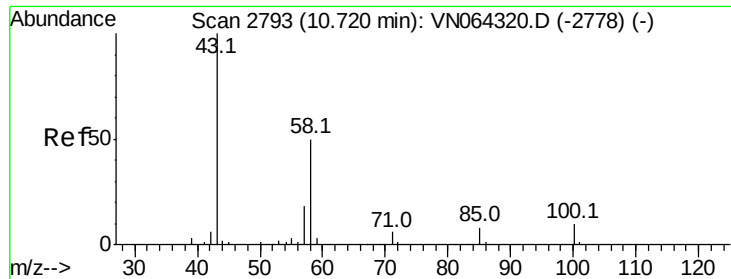
Tgt Ion: 76 Resp: 4678

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#





#59

2-Hexanone

Concen: 23.539 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064361.D

Acq: 28 Oct 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

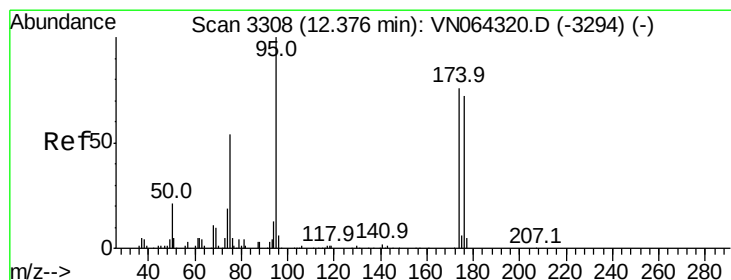
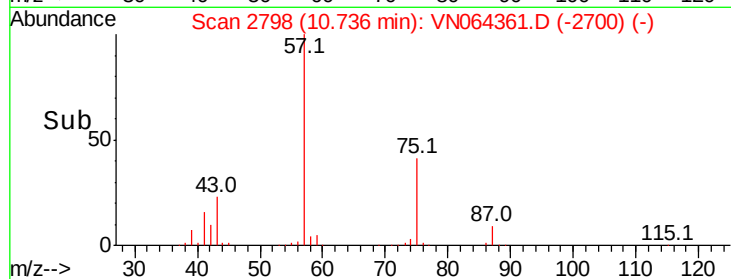
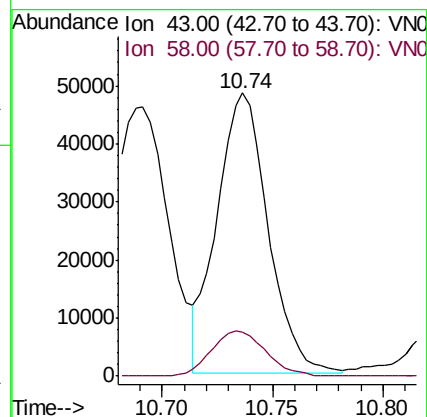
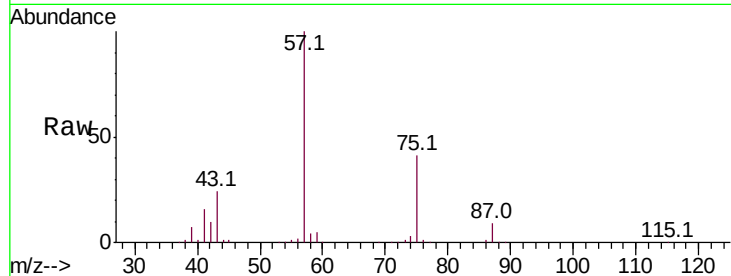
CHRT-27339

Tot Ion: 43 Resp: 76963

Ion Ratio Lower Upper

43 100

58 17.1 25.0 75.0#



#62

4-Bromofluorobenzene

Concen: 55.353 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064361.D

Acq: 28 Oct 2020 18:43

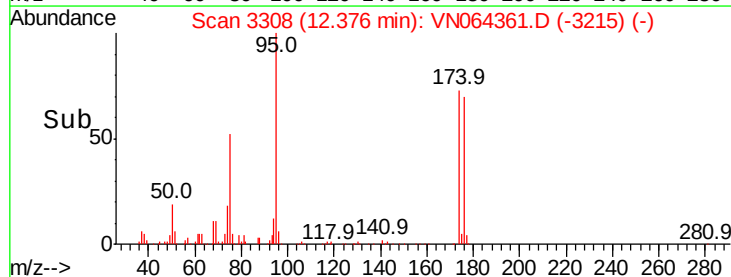
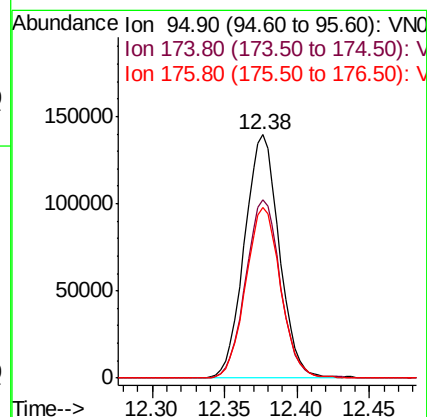
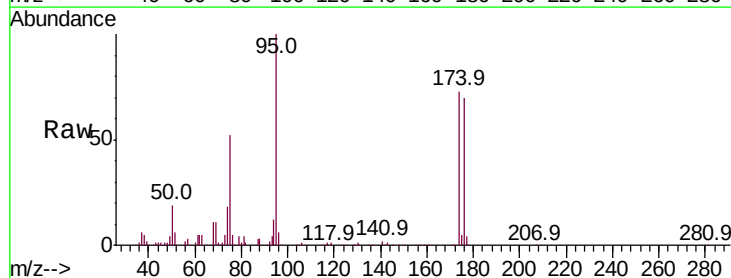
Tgt Ion: 95 Resp: 233308

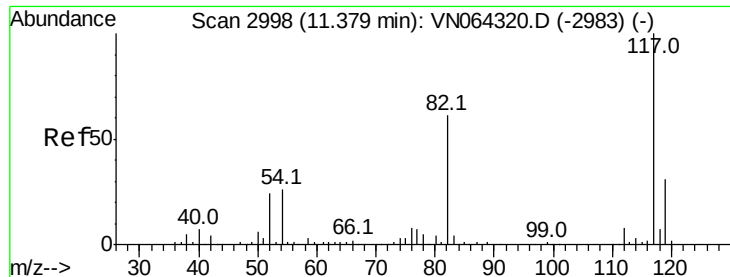
Ion Ratio Lower Upper

95 100

174 73.2 0.0 147.4

176 70.6 0.0 143.6

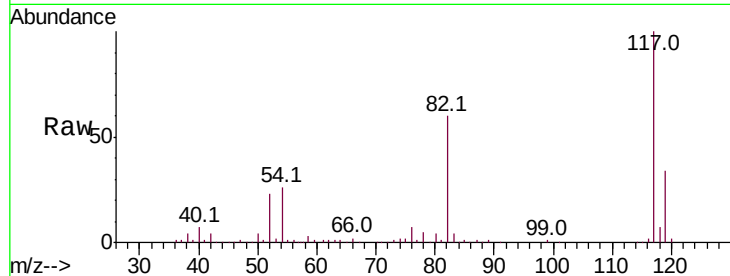




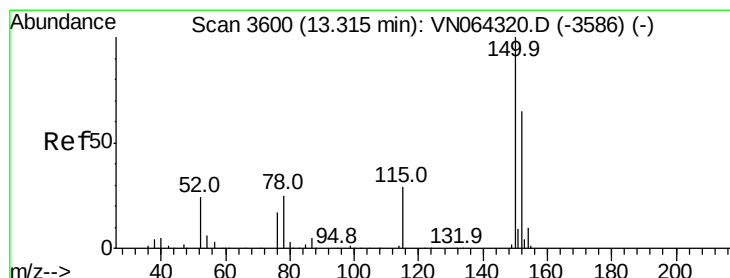
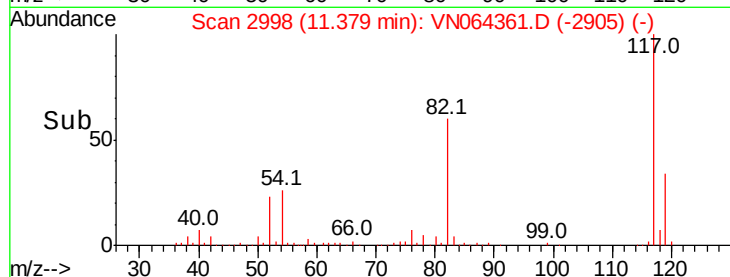
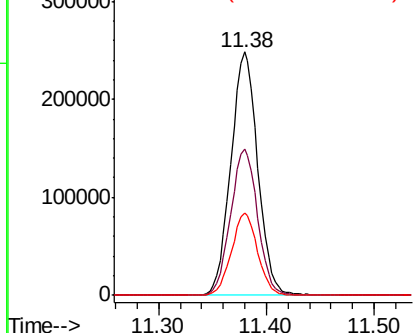
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064361.D
Acq: 28 Oct 2020 18:43

Instrument :
MSVOA_N
ClientSampleId :
CHRT-27339

Tot Ion:117 Resp: 432344
Ion Ratio Lower Upper
117 100
82 59.9 48.8 73.2
119 33.9 25.1 37.7

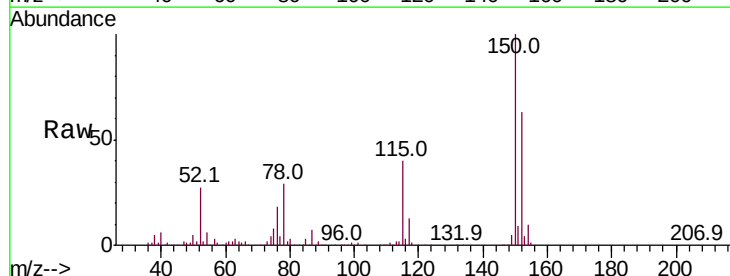


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

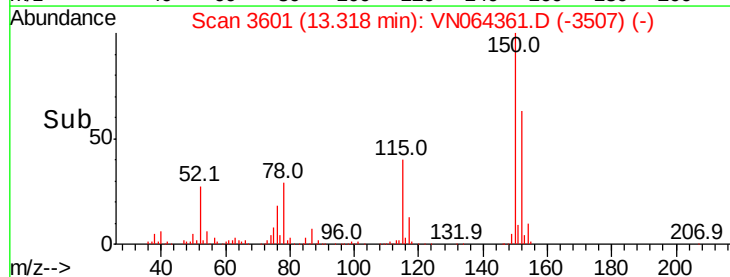
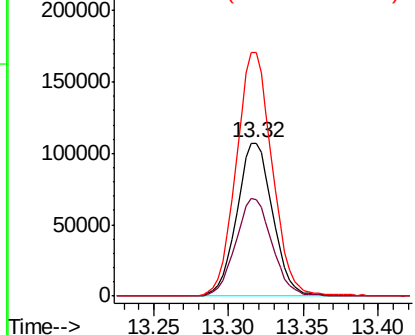


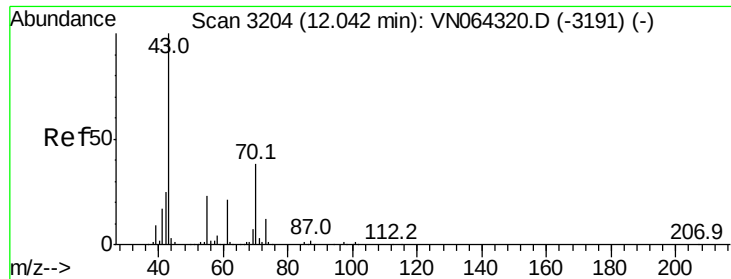
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064361.D
Acq: 28 Oct 2020 18:43

Tgt Ion:152 Resp: 178681
Ion Ratio Lower Upper
152 100
115 64.7 31.5 94.5
150 160.1 0.0 346.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

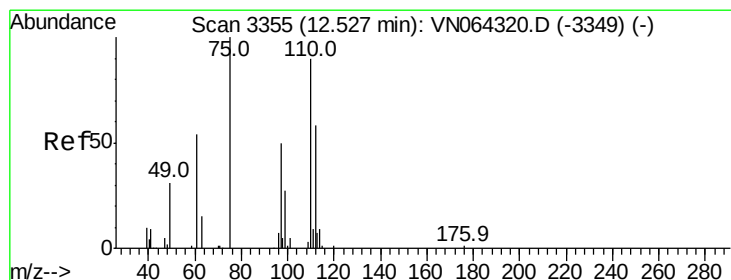
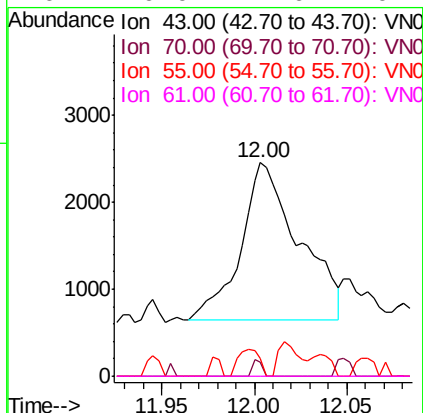
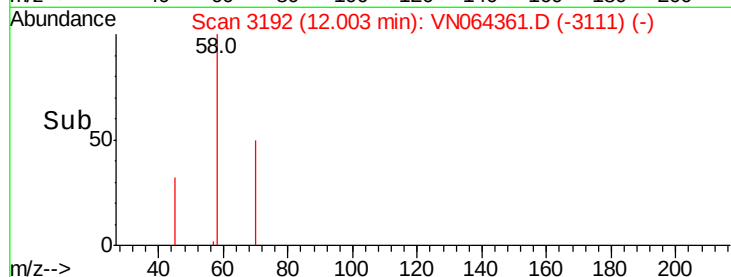
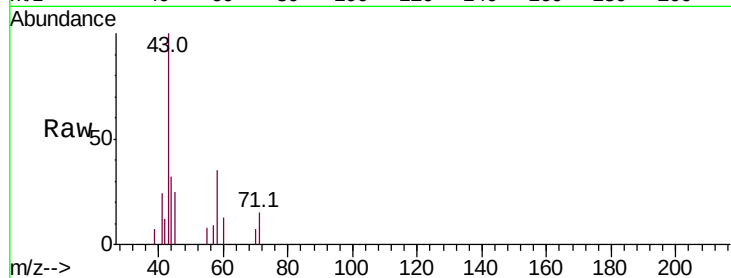




#74
N-amvl acetate
Concen: 0.672 ug/l
RT: 12.00 min Scan# 3192
Delta R.T. -0.04 min
Lab File: VN064361.D
Acq: 28 Oct 2020 18:43

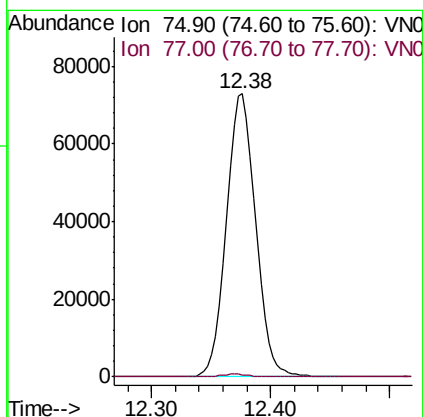
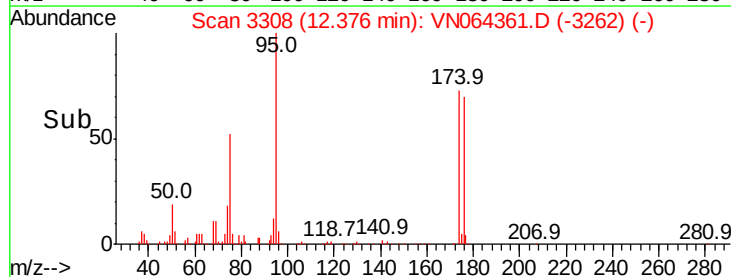
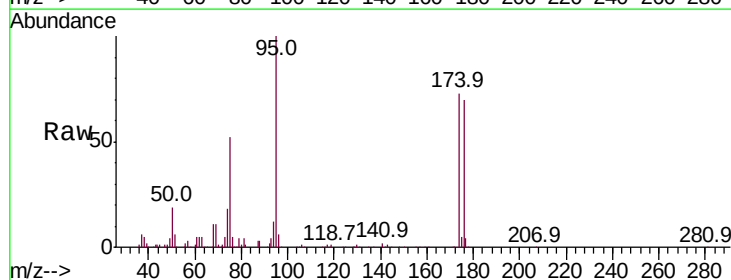
Instrument :
MSVOA_N
ClientSampleId :
CHRT-27339

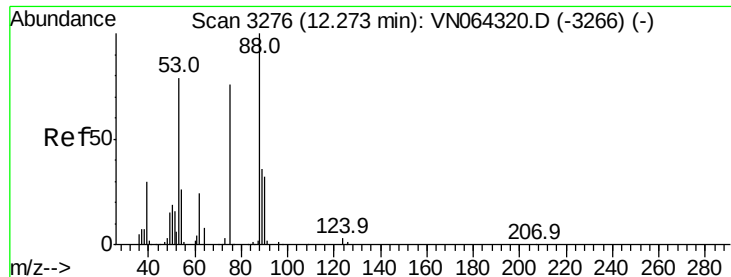
Tot Ion: 43 Resp: 3959
Ion Ratio Lower Upper
43 100
70 1.7 30.6 45.8#
55 6.4 18.2 27.4#
61 0.0 17.6 26.4#



#76
1,2,3-Trichloropropane
Concen: 29.084 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN064361.D
Acq: 28 Oct 2020 18:43

Tgt Ion: 75 Resp: 124447
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 83.776 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064361.D

Acq: 28 Oct 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

CHRT-27339

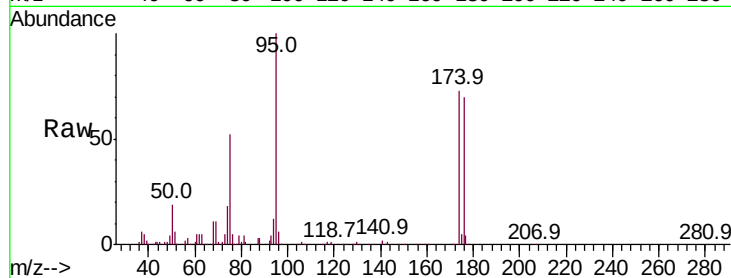
Tot Ion: 75 Resp: 124447

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

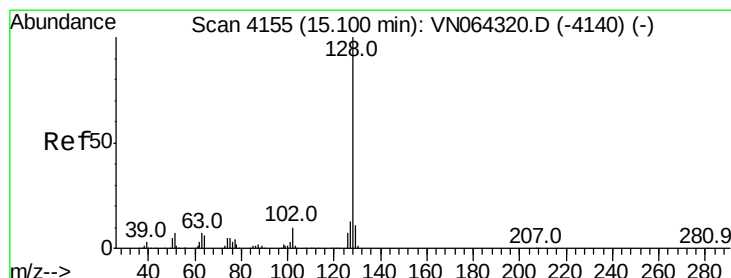
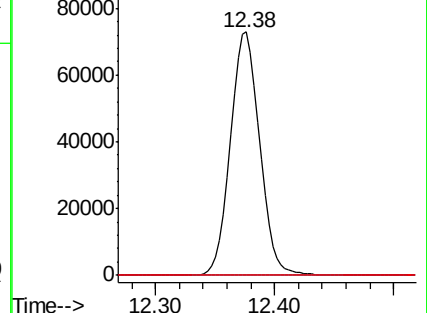
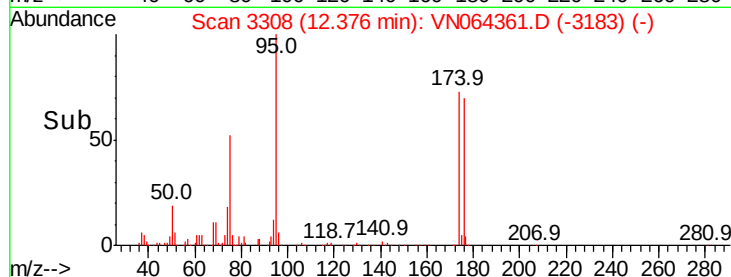
89 0.0 39.9 59.9#



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: 2.410 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN064361.D

Acq: 28 Oct 2020 18:43

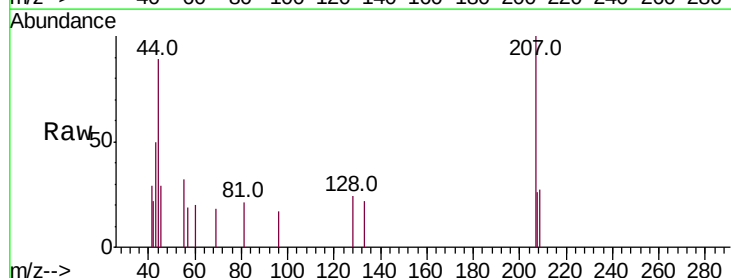
Tgt Ion: 128 Resp: 186

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

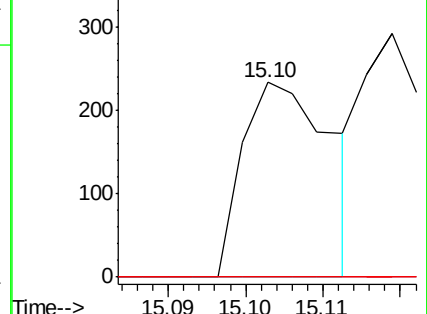
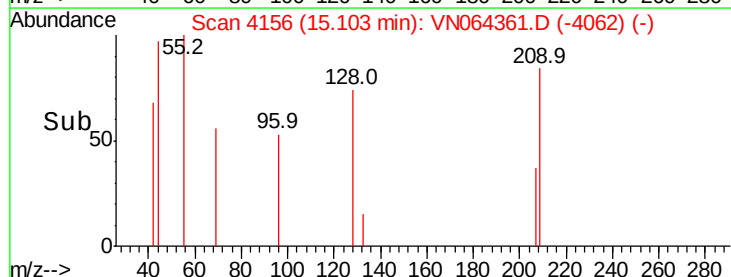
129 0.0 8.6 13.0#

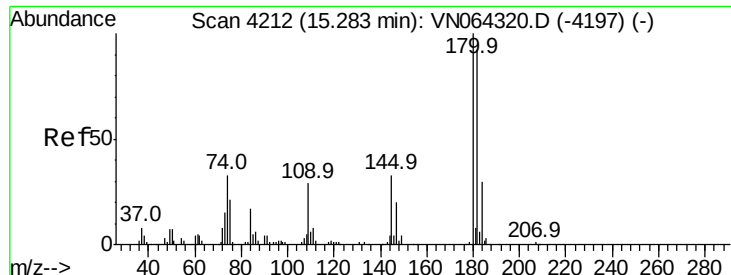


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 2.204 ug/l

RT: 15.23 min Scan# 4197

Delta R.T. -0.05 min

Lab File: VN064361.D

Acq: 28 Oct 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

CHRT-27339

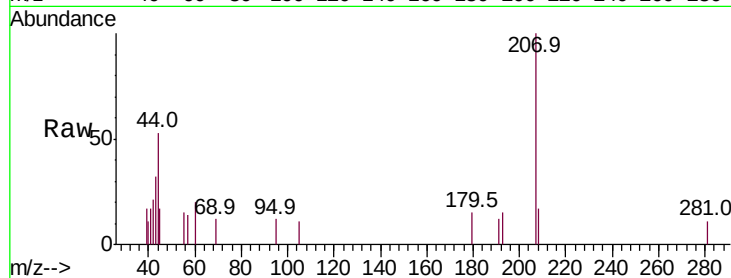
Tot Ion:180 Resp: 72

Ion Ratio Lower Upper

180 100

182 0.0 46.1 138.3#

145 0.0 16.2 48.5#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

