

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102921\
 Data File : VU045468.D
 Acq On : 29 Oct 2021 16:54
 Operator : SY/MD
 Sample : M4406-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CHRT-20310

Quant Time: Oct 30 04:08:15 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U102821W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 29 11:09:42 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

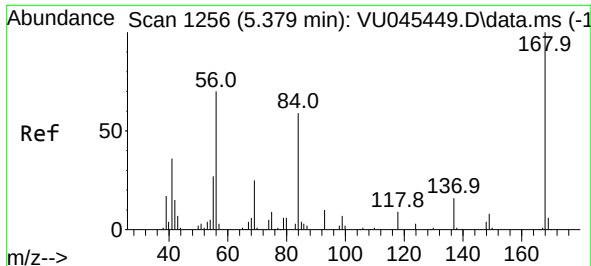
Internal Standards						
1) Pentafluorobenzene	5.379	168	204319	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	398615	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	394985	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	197021	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.707	65	170625	51.295	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.580%			
35) Dibromofluoromethane	5.295	113	123992	48.920	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.840%			
50) Toluene-d8	7.903	98	516965	52.013	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 104.020%			
62) 4-Bromofluorobenzene	10.636	95	200298	52.886	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.780%			
Target Compounds						Qvalue
3) Chloromethane	1.520	50	956	0.235	ug/l	94
10) Methyl Iodide	2.726	142	103	9.393	ug/l #	43
11) Tert butyl alcohol	3.221	59	634	0.883	ug/l #	72
16) Acetone	2.646	43	57913	38.350	ug/l	99
18) Methyl Acetate	2.961	43	2476	0.440	ug/l #	82
20) Methylene Chloride	3.051	84	8791	2.921	ug/l	97
25) 2-Butanone	4.719	43	13374	5.866	ug/l	99
29) Tetrahydrofuran	5.063	42	5357	3.623	ug/l	93
31) Cyclohexane	5.379	56	4960	1.002	ug/l #	1
36) 1,1-Dichloropropene	5.375	75	18312	4.826	ug/l #	49
37) Ethyl Acetate	4.719	43	13374	2.910	ug/l #	67
38) Carbon Tetrachloride	5.379	117	20881	6.310	ug/l #	16
41) Methacrylonitrile	5.063	41	2880	1.184	ug/l #	42
43) Isopropyl Acetate	5.916	43	20520	2.963	ug/l	98
45) 1,2-Dichloropropane	7.041	63	913	0.304	ug/l #	43
48) Methyl methacrylate	6.896	41	10440	3.180	ug/l #	13
49) 1,4-Dioxane	7.025	88	162	1.942	ug/l #	13
51) 4-Methyl-2-Pentanone	7.793	43	8141	1.819	ug/l	96
54) cis-1,3-Dichloropropene	7.739	75	41914	8.914	ug/l #	59
56) Ethyl methacrylate	8.578	69	966	1.821	ug/l #	1
57) 1,3-Dichloropropane	8.729	76	16989	3.375	ug/l #	42
59) 2-Hexanone	8.729	43	231007	66.609	ug/l #	48
70) Styrene	10.124	104	511	1.030	ug/l	93
74) N-amyl acetate	10.237	43	1346	1.346	ug/l #	43
76) 1,2,3-Trichloropropane	10.636	75	102962	19.614	ug/l #	42
81) trans-1,4-Dichloro-2-b...	10.636	75	102962	54.532	ug/l #	12
86) p-Isopropyltoluene	11.796	119	944	0.263	ug/l #	1
89) n-Butylbenzene	12.211	91	1646	1.070	ug/l #	87
95) Naphthalene	14.092	128	2857	0.276	ug/l	99

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

Instrument :
MSVOA_U
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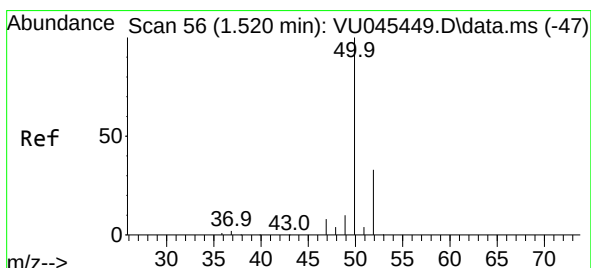
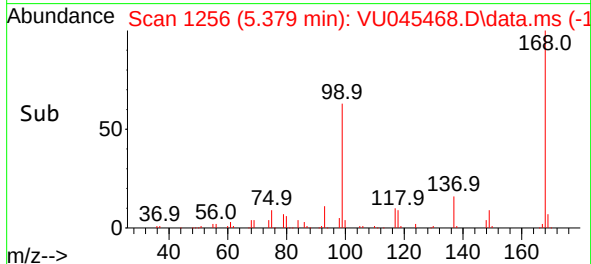
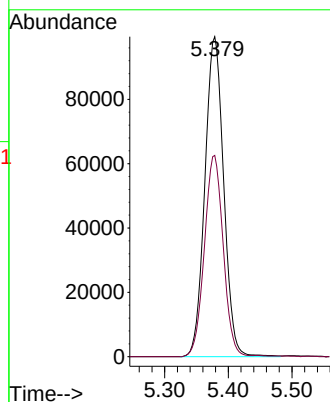
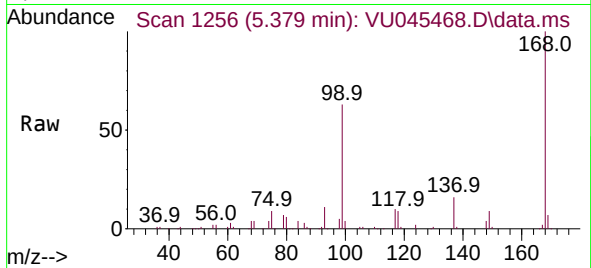




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.379 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU045468.D
Acq: 29 Oct 2021 16:54

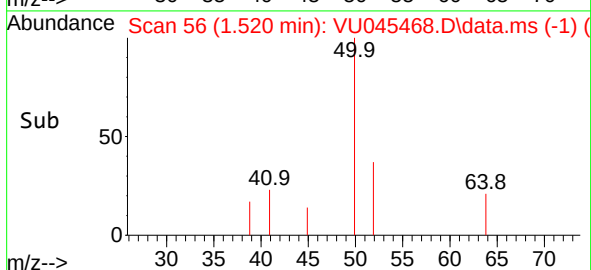
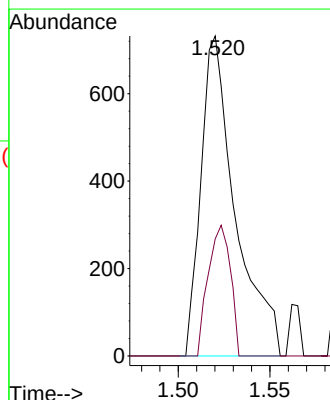
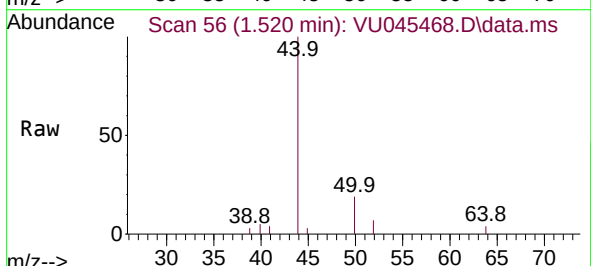
Instrument :
MSVOA_U
ClientSampleId :
CHRT-20310

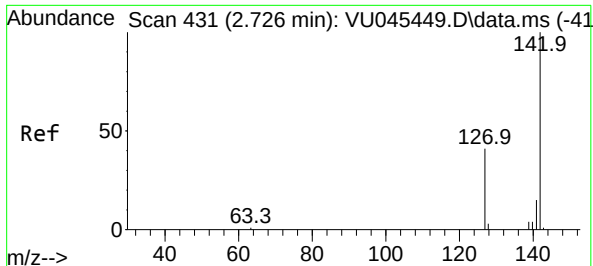
Tgt Ion:168 Resp: 204319
Ion Ratio Lower Upper
168 100
99 62.9 51.0 76.6



#3
Chloromethane
Concen: 0.235 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU045468.D
Acq: 29 Oct 2021 16:54

Tgt Ion: 50 Resp: 956
Ion Ratio Lower Upper
50 100
52 36.6 26.6 40.0

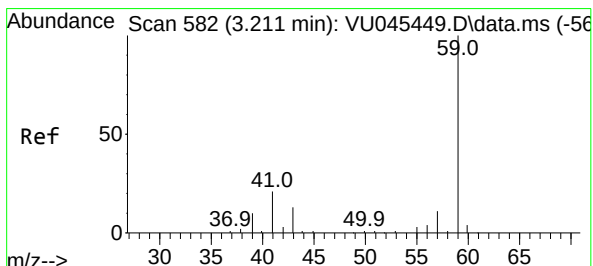
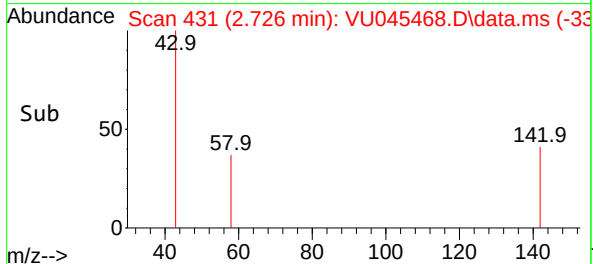
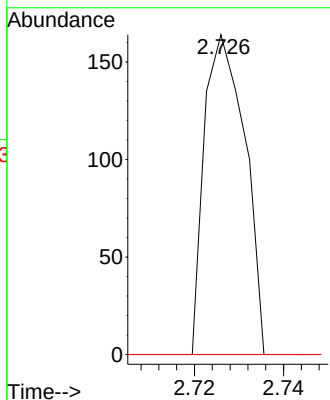
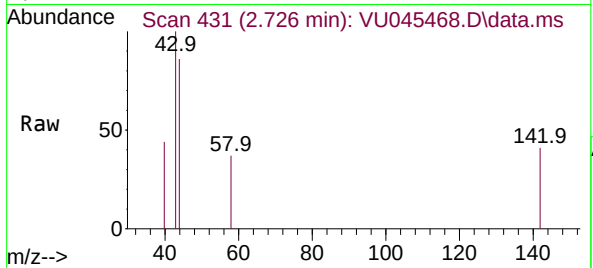




#10
Methyl Iodide
Concen: 9.393 ug/l
RT: 2.726 min Scan# 41
Delta R.T. -0.000 min
Lab File: VU045468.D
Acq: 29 Oct 2021 16:54

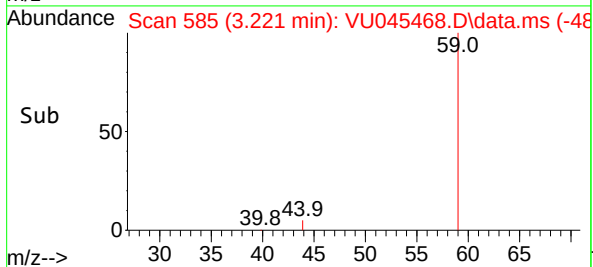
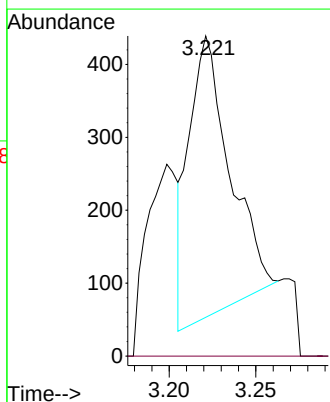
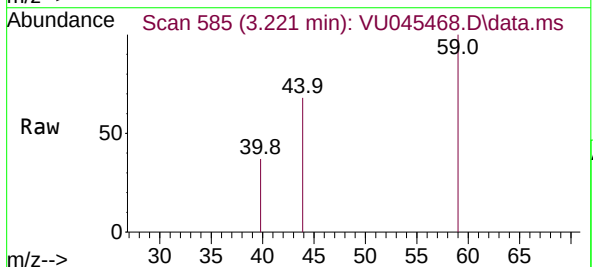
Instrument :
MSVOA_U
ClientSampleId :
CHRT-20310

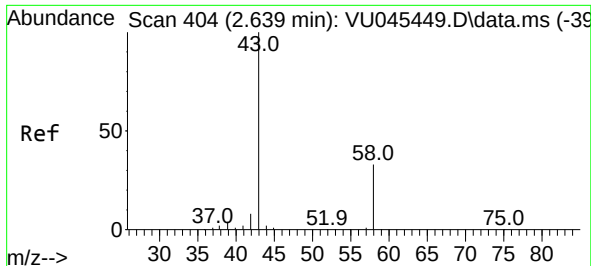
Tgt Ion:142 Resp: 103
Ion Ratio Lower Upper
142 100
127 0.0 32.2 48.2#
141 0.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.883 ug/l
RT: 3.221 min Scan# 585
Delta R.T. 0.010 min
Lab File: VU045468.D
Acq: 29 Oct 2021 16:54

Tgt Ion: 59 Resp: 634
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#16

Acetone

Concen: 38.350 ug/l

RT: 2.646 min Scan# 406

Delta R.T. 0.006 min

Lab File: VU045468.D

Acq: 29 Oct 2021 16:54

Instrument :

MSVOA_U

ClientSampleId :

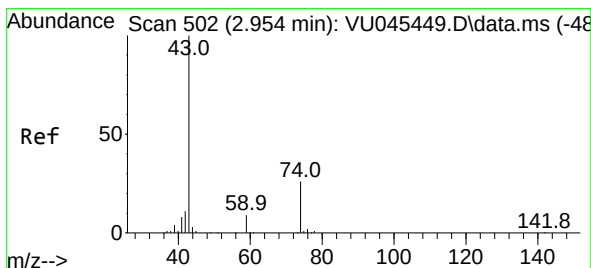
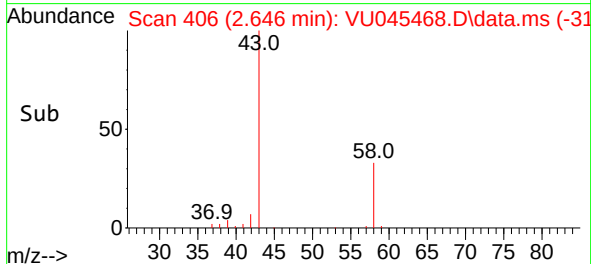
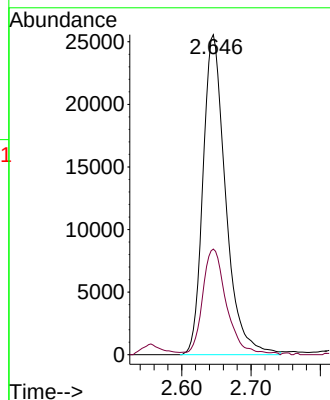
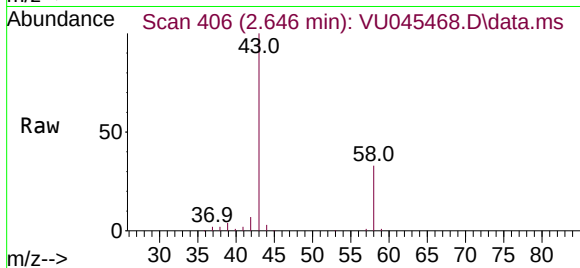
CHRT-20310

Tgt Ion: 43 Resp: 57913

Ion Ratio Lower Upper

43 100

58 33.0 26.2 39.2



#18

Methyl Acetate

Concen: 0.440 ug/l

RT: 2.961 min Scan# 504

Delta R.T. 0.006 min

Lab File: VU045468.D

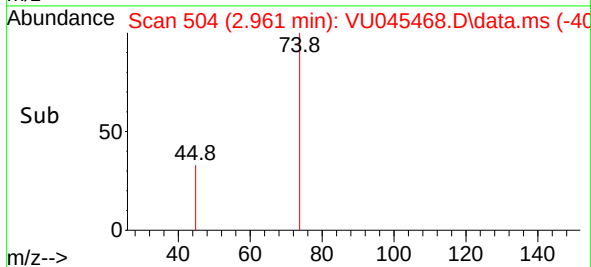
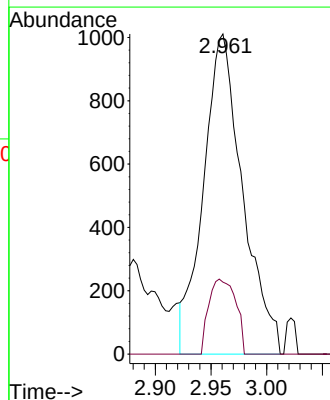
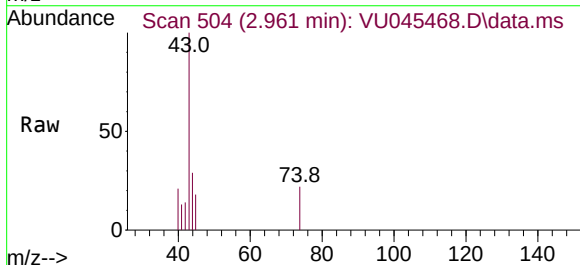
Acq: 29 Oct 2021 16:54

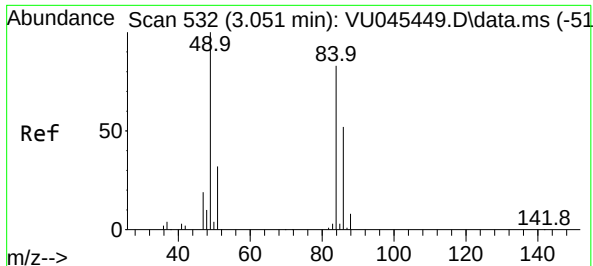
Tgt Ion: 43 Resp: 2476

Ion Ratio Lower Upper

43 100

74 16.0 20.2 30.2#

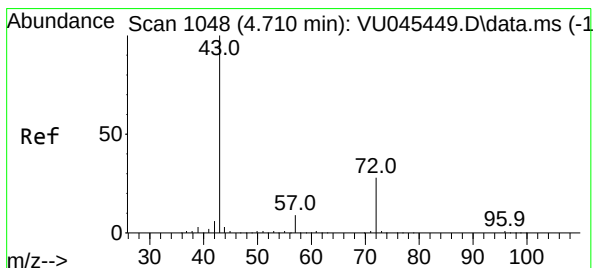
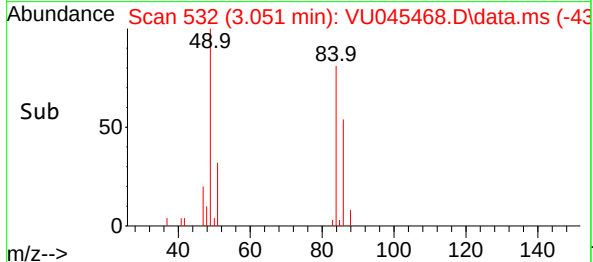
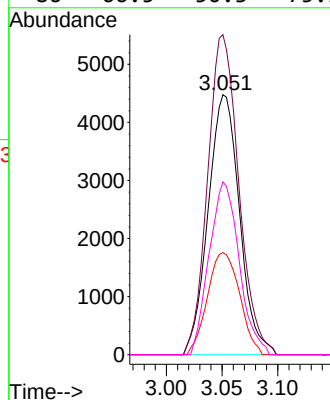
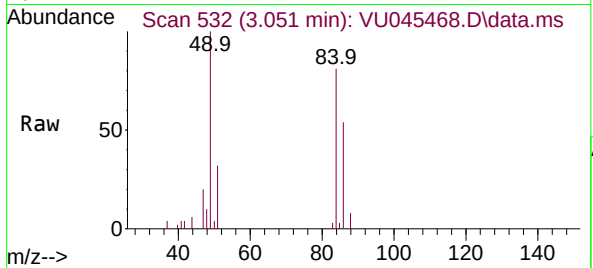




#20
Methylene Chloride
Concen: 2.921 ug/l
RT: 3.051 min Scan# 51
Delta R.T. 0.000 min
Lab File: VU045468.D
Acq: 29 Oct 2021 16:54

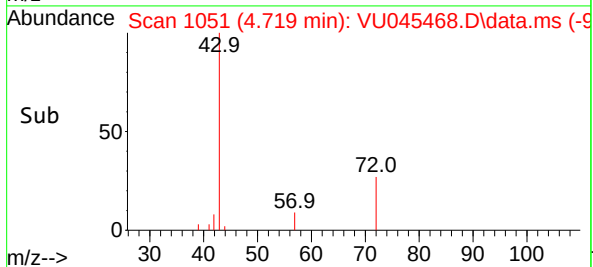
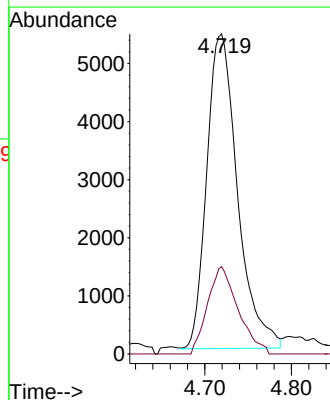
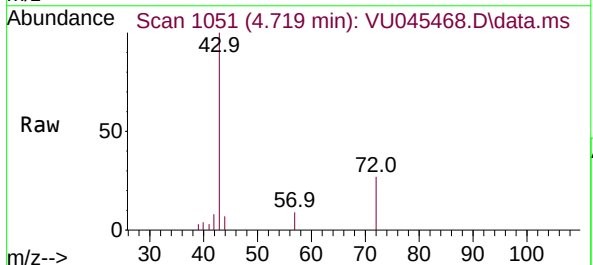
Instrument :
MSVOA_U
ClientSampleId :
CHRT-20310

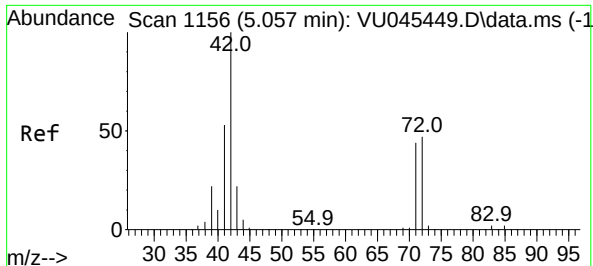
Tgt Ion:	84	Resp:	8791
Ion	Ratio	Lower	Upper
84	100		
49	123.1	96.4	144.6
51	39.3	30.5	45.7
86	66.5	50.3	75.5



#25
2-Butanone
Concen: 5.866 ug/l
RT: 4.719 min Scan# 1051
Delta R.T. 0.010 min
Lab File: VU045468.D
Acq: 29 Oct 2021 16:54

Tgt Ion:	43	Resp:	13374
Ion	Ratio	Lower	Upper
43	100		
72	27.8	22.0	33.0





#29

Tetrahydrofuran

Concen: 3.623 ug/l

RT: 5.063 min Scan# 1156

Delta R.T. 0.006 min

Lab File: VU045468.D

Acq: 29 Oct 2021 16:54

Instrument :

MSVOA_U

ClientSampleId :

CHRT-20310

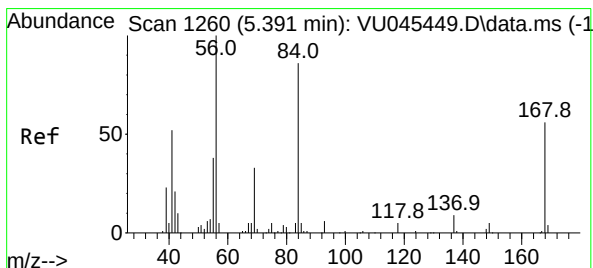
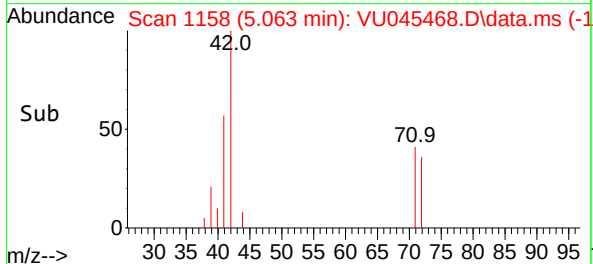
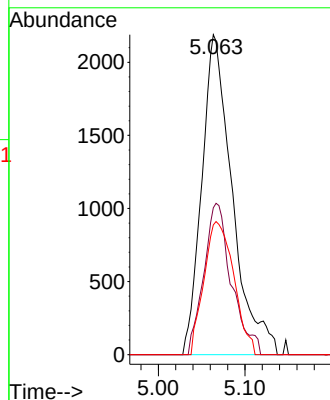
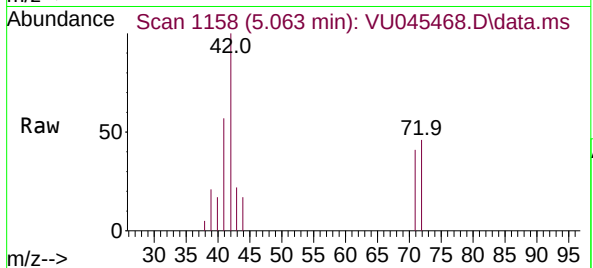
Tgt Ion: 42 Resp: 5357

Ion Ratio Lower Upper

42 100

72 42.9 38.2 57.4

71 40.5 35.4 53.2



#31

Cyclohexane

Concen: 1.002 ug/l

RT: 5.379 min Scan# 1256

Delta R.T. -0.013 min

Lab File: VU045468.D

Acq: 29 Oct 2021 16:54

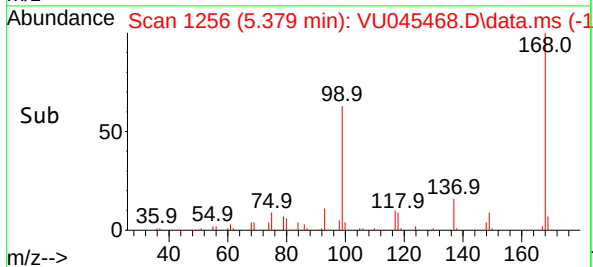
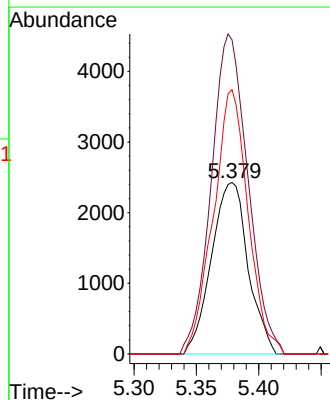
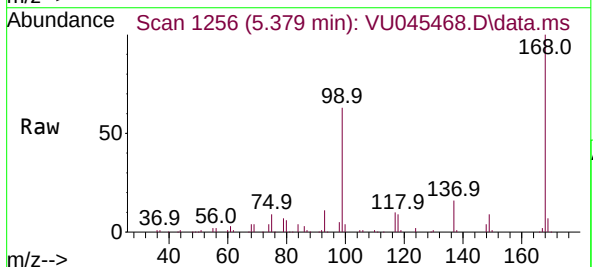
Tgt Ion: 56 Resp: 4960

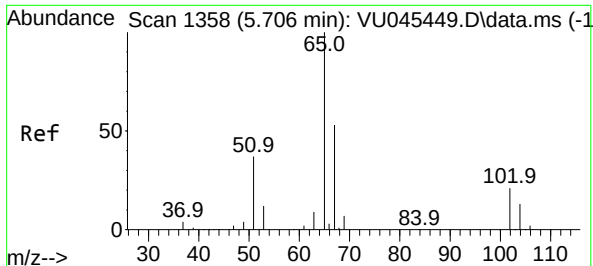
Ion Ratio Lower Upper

56 100

69 183.2 26.4 39.6#

84 154.1 68.4 102.6#





#33

1,2-Dichloroethane-d4

Concen: 51.295 ug/l

RT: 5.707 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU045468.D

Acq: 29 Oct 2021 16:54

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ClientSampleId :

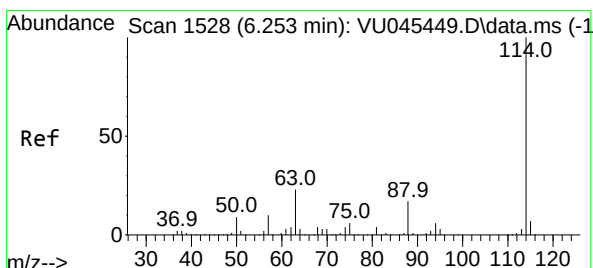
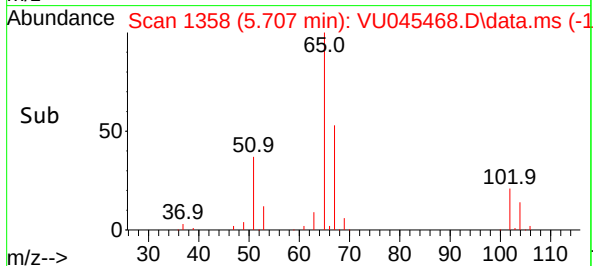
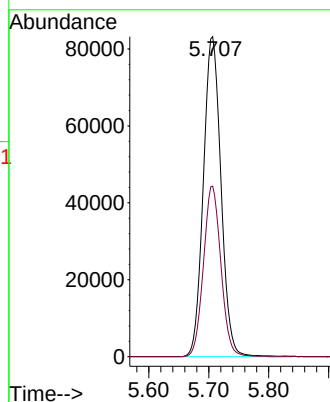
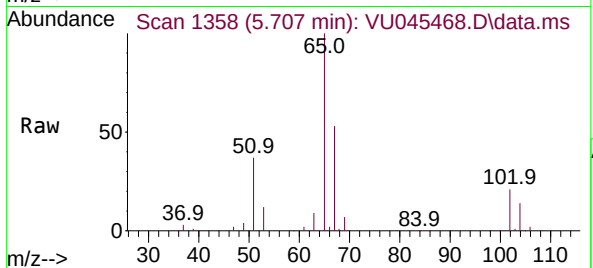
CHRT-20310

Tgt Ion: 65 Resp: 170625

Ion Ratio Lower Upper

65 100

67 52.6 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.253 min Scan# 1528

Delta R.T. 0.000 min

Lab File: VU045468.D

Acq: 29 Oct 2021 16:54

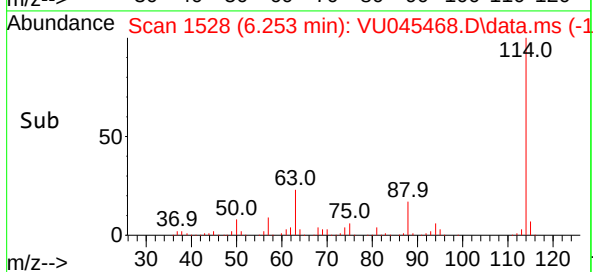
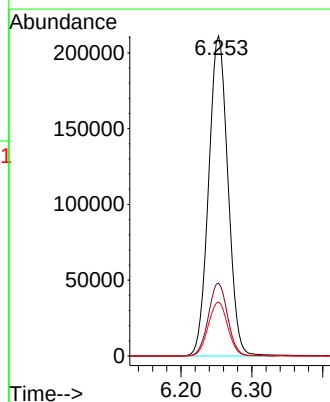
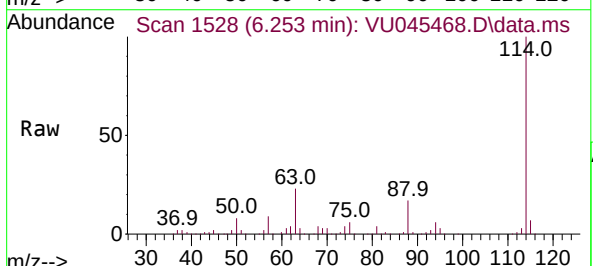
Tgt Ion: 114 Resp: 398615

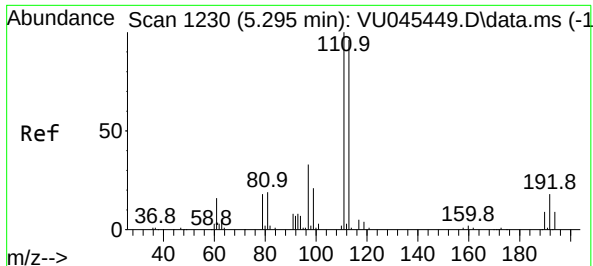
Ion Ratio Lower Upper

114 100

63 22.7 0.0 45.6

88 16.8 0.0 33.8





#35

Dibromofluoromethane

Concen: 48.920 ug/l

RT: 5.295 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU045468.D

Acq: 29 Oct 2021 16:54

Instrument :

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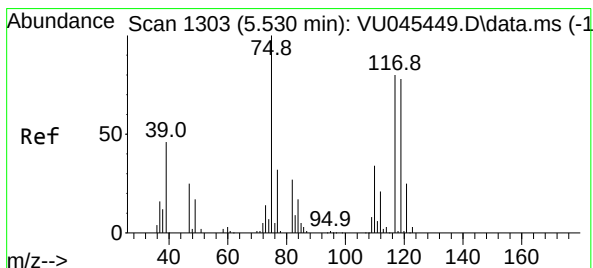
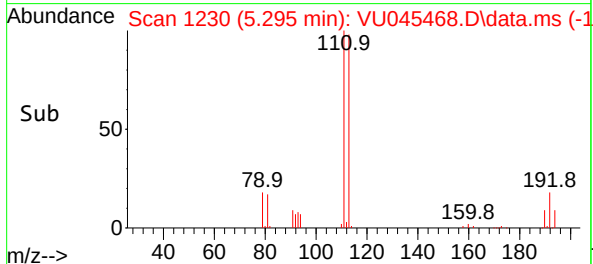
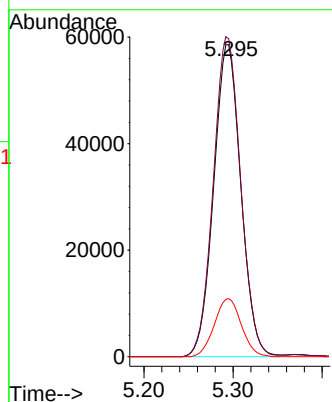
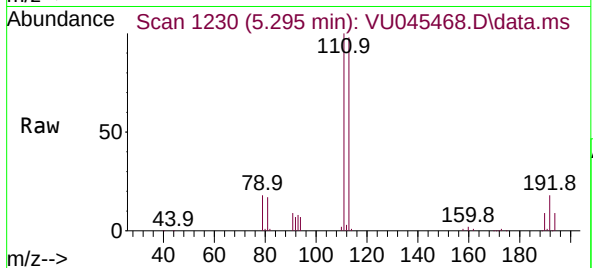
Tgt Ion:113 Resp: 123992

Ion Ratio Lower Upper

113 100

111 103.6 82.8 124.2

192 18.5 14.8 22.2



#36

1,1-Dichloropropene

Concen: 4.826 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.154 min

Lab File: VU045468.D

Acq: 29 Oct 2021 16:54

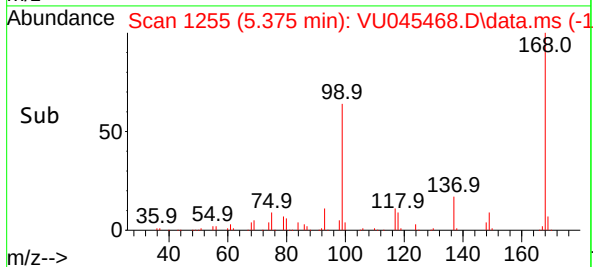
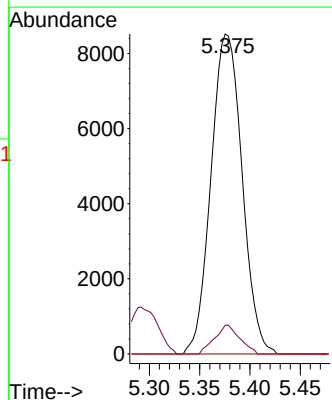
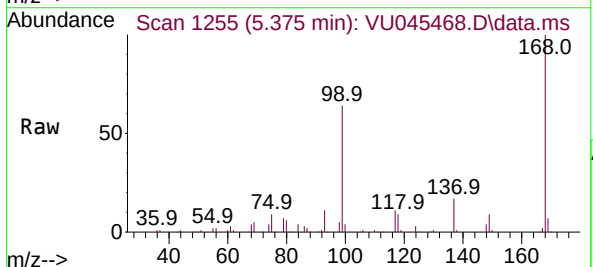
Tgt Ion: 75 Resp: 18312

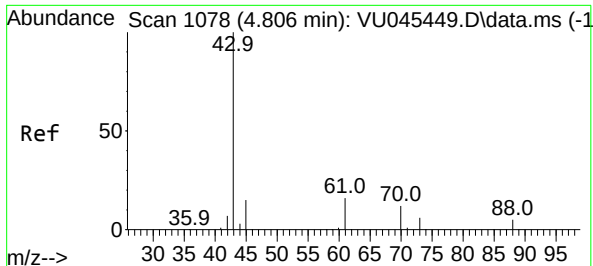
Ion Ratio Lower Upper

75 100

110 7.3 16.7 50.0#

77 0.0 25.0 37.4#

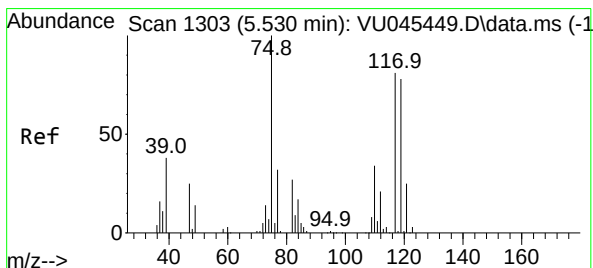
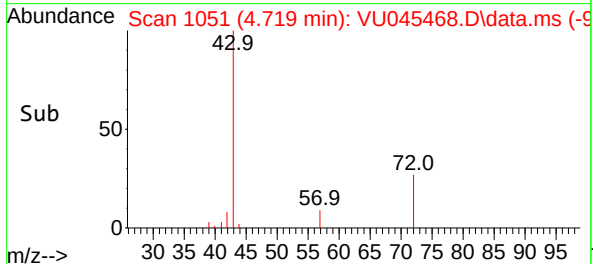
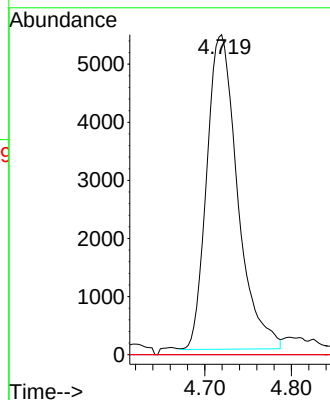
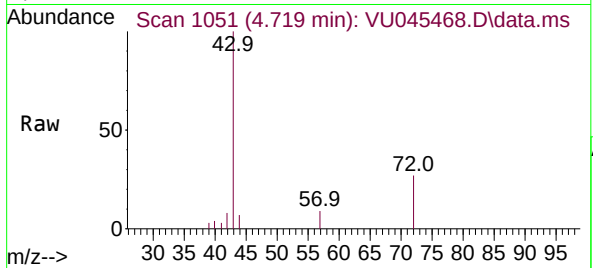




#37
Ethyl Acetate
Concen: 2.910 ug/l
RT: 4.719 min Scan# 1051
Delta R.T. -0.087 min
Lab File: VU045468.D
Acq: 29 Oct 2021 16:54

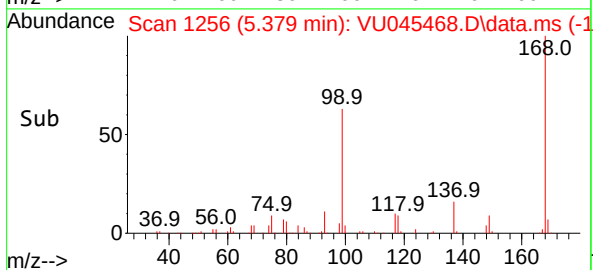
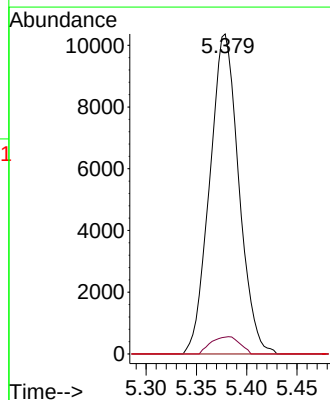
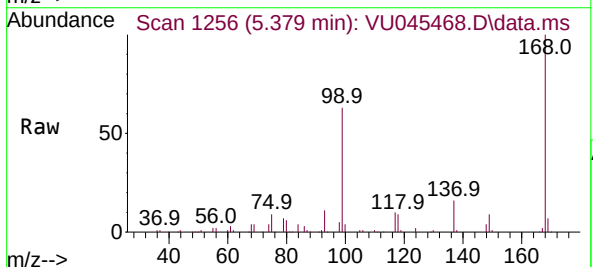
Instrument :
MSVOA_U
ClientSampleId :
CHRT-20310

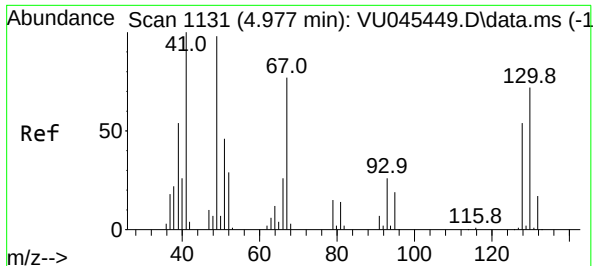
Tgt Ion: 43 Resp: 13374
Ion Ratio Lower Upper
43 100
61 0.0 11.6 17.4#
70 0.0 9.1 13.7#



#38
Carbon Tetrachloride
Concen: 6.310 ug/l
RT: 5.379 min Scan# 1256
Delta R.T. -0.151 min
Lab File: VU045468.D
Acq: 29 Oct 2021 16:54

Tgt Ion: 117 Resp: 20881
Ion Ratio Lower Upper
117 100
119 5.2 77.4 116.0#
121 0.0 24.8 37.2#





#41

Methacrylonitrile

Concen: 1.184 ug/l

RT: 5.063 min Scan# 1131

Delta R.T. 0.087 min

Lab File: VU045468.D

Acq: 29 Oct 2021 16:54

Instrument :

MSVOA_U

ClientSampleId :

CHRT-20310

Tgt Ion: 41 Resp: 2880

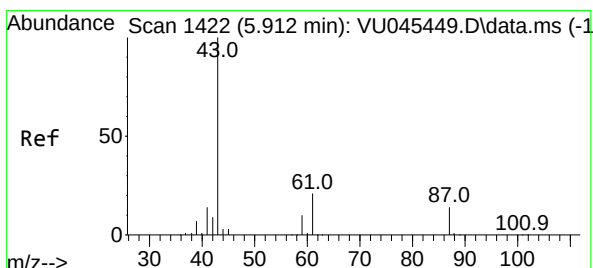
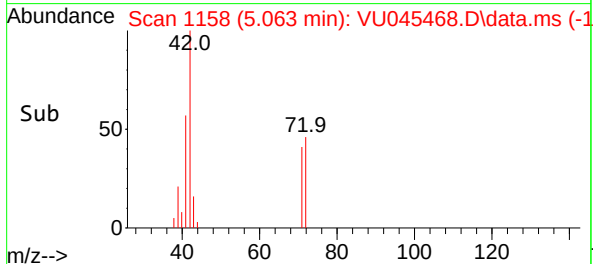
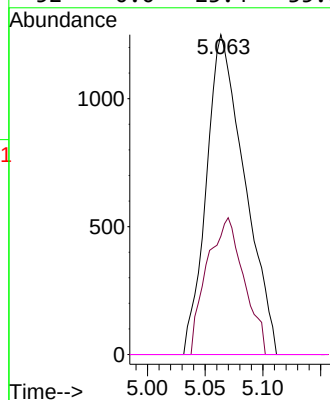
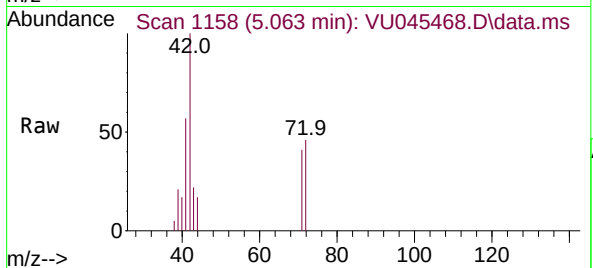
Ion Ratio Lower Upper

41 100

39 41.4 43.4 65.0#

67 0.0 61.0 91.4#

52 0.0 23.4 35.0#



#43

Isopropyl Acetate

Concen: 2.963 ug/l

RT: 5.916 min Scan# 1423

Delta R.T. 0.003 min

Lab File: VU045468.D

Acq: 29 Oct 2021 16:54

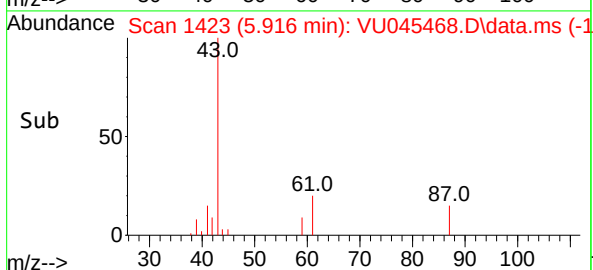
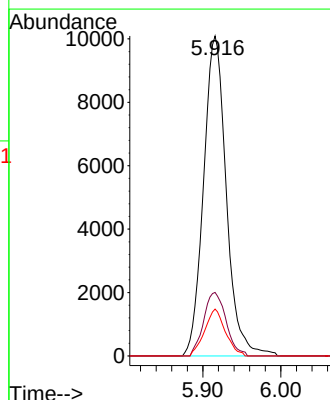
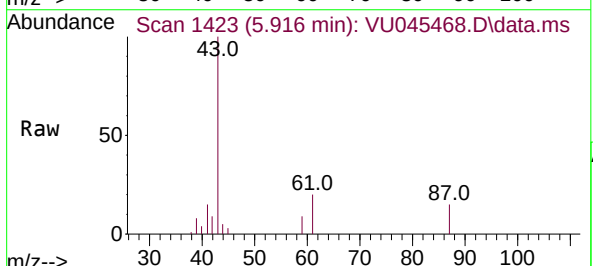
Tgt Ion: 43 Resp: 20520

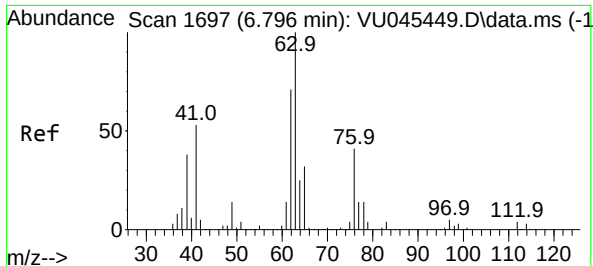
Ion Ratio Lower Upper

43 100

61 19.5 16.9 25.3

87 13.3 11.0 16.4





#45

1,2-Dichloropropane

Concen: 0.304 ug/l

RT: 7.041 min Scan# 1

Delta R.T. 0.244 min

Lab File: VU045468.D

Acq: 29 Oct 2021 16:54

Instrument :

MSVOA_U

ClientSampleId :

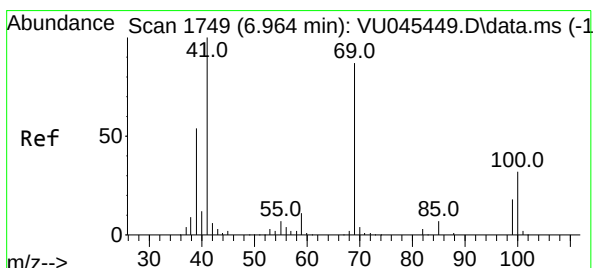
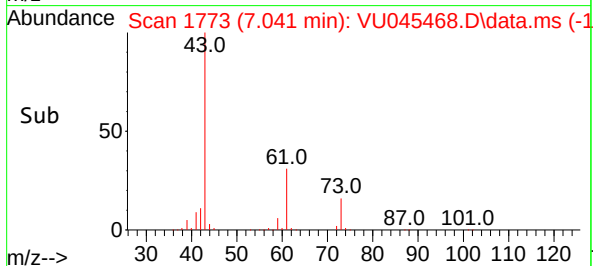
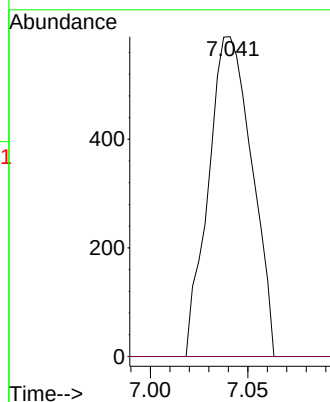
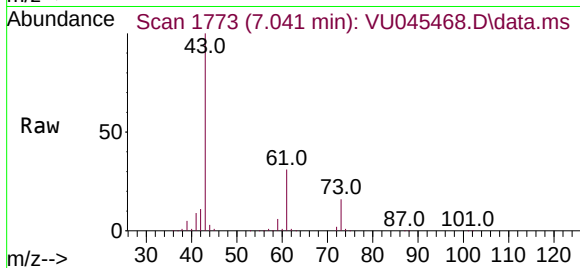
CHRT-20310

Tgt Ion: 63 Resp: 913

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#



#48

Methyl methacrylate

Concen: 3.180 ug/l

RT: 6.896 min Scan# 1728

Delta R.T. -0.067 min

Lab File: VU045468.D

Acq: 29 Oct 2021 16:54

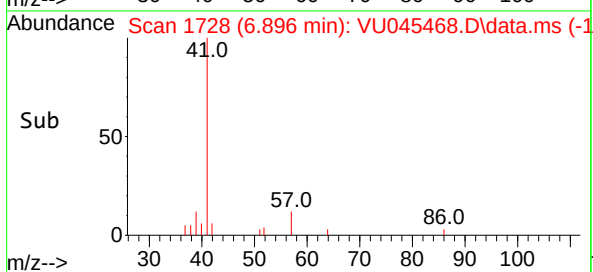
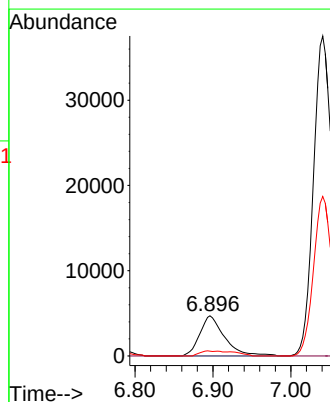
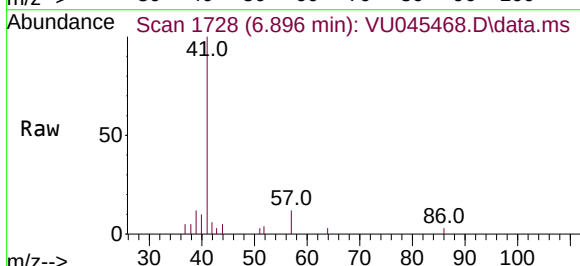
Tgt Ion: 41 Resp: 10440

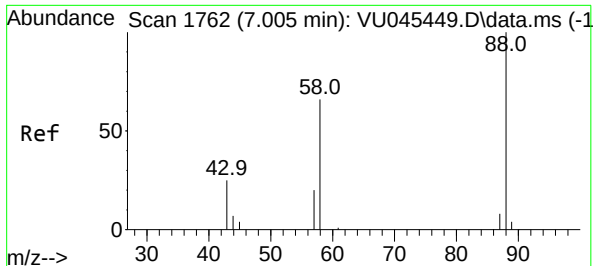
Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.2#

39 0.0 43.9 65.9#





#49

1,4-Dioxane

Concen: 1.942 ug/l

RT: 7.025 min Scan# 1

Delta R.T. 0.019 min

Lab File: VU045468.D

Acq: 29 Oct 2021 16:54

Instrument :

MSVOA_U

ClientSampleId :

CHRT-20310

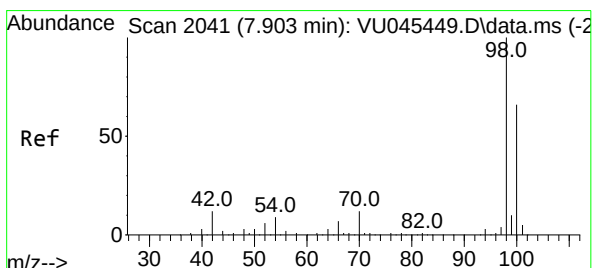
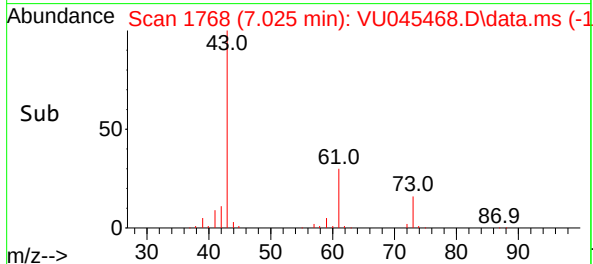
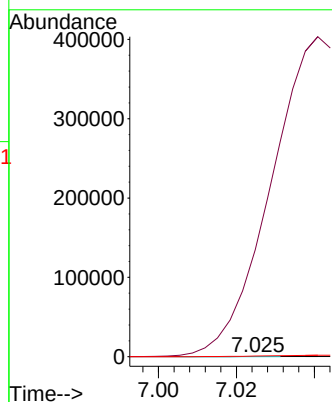
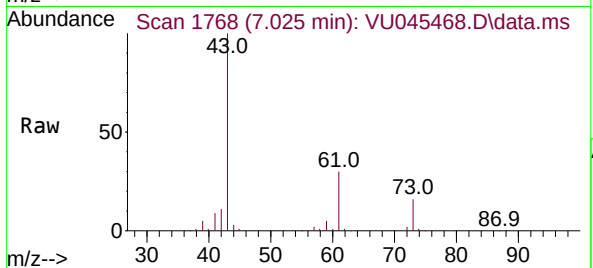
Tgt Ion: 88 Resp: 162

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 58.7 88.1#



#50

Toluene-d8

Concen: 52.013 ug/l

RT: 7.903 min Scan# 2041

Delta R.T. 0.000 min

Lab File: VU045468.D

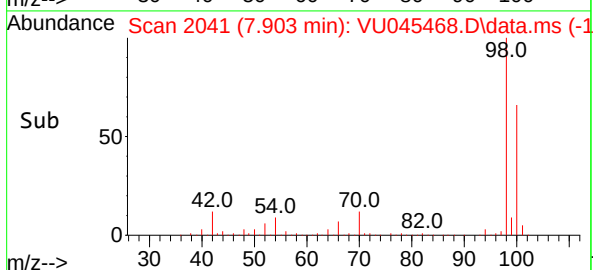
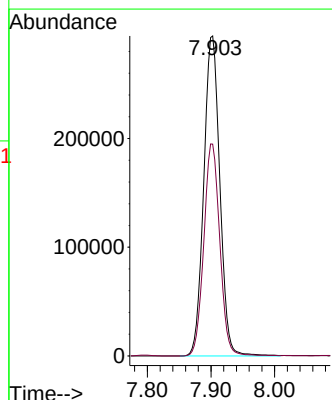
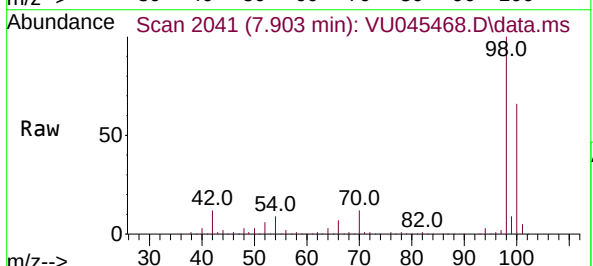
Acq: 29 Oct 2021 16:54

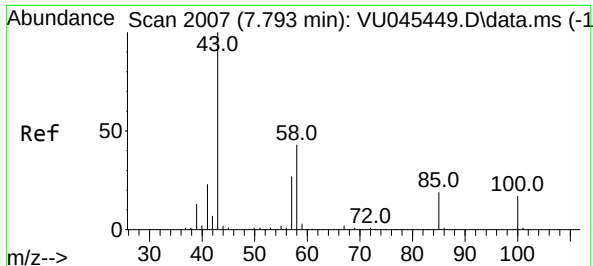
Tgt Ion: 98 Resp: 516965

Ion Ratio Lower Upper

98 100

100 65.9 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 1.819 ug/l

RT: 7.793 min Scan# 2007

Delta R.T. 0.000 min

Lab File: VU045468.D

Acq: 29 Oct 2021 16:54

Instrument :

MSVOA_U

ClientSampleId :

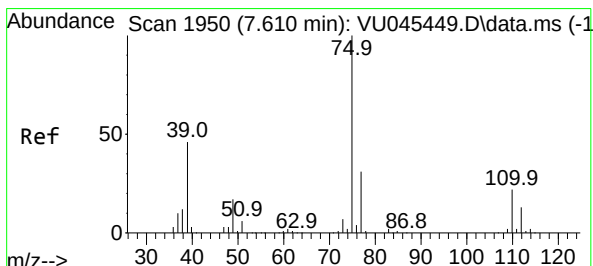
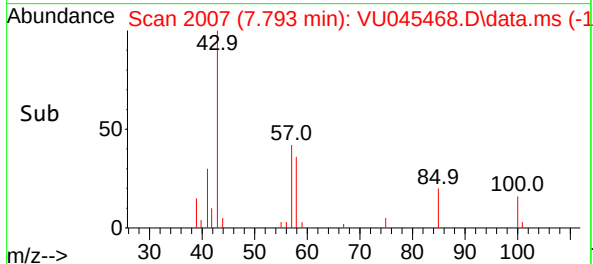
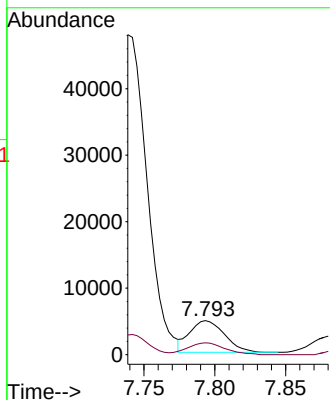
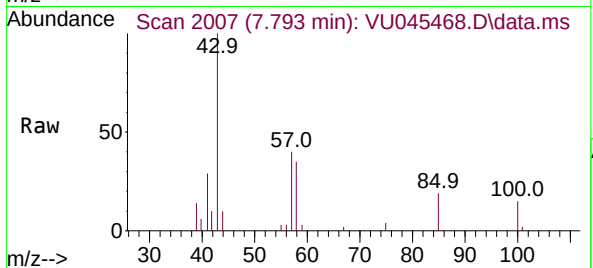
CHRT-20310

Tgt Ion: 43 Resp: 8141

Ion Ratio Lower Upper

43 100

58 40.1 33.8 50.8



#54

cis-1,3-Dichloropropene

Concen: 8.914 ug/l

RT: 7.739 min Scan# 1990

Delta R.T. 0.129 min

Lab File: VU045468.D

Acq: 29 Oct 2021 16:54

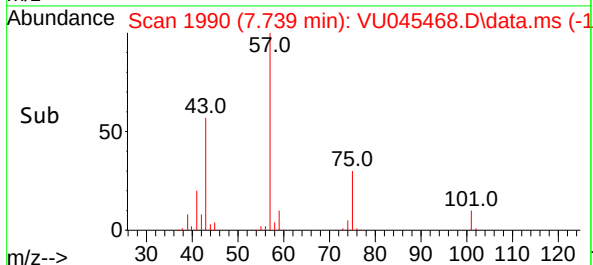
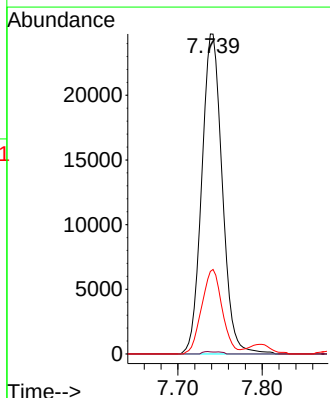
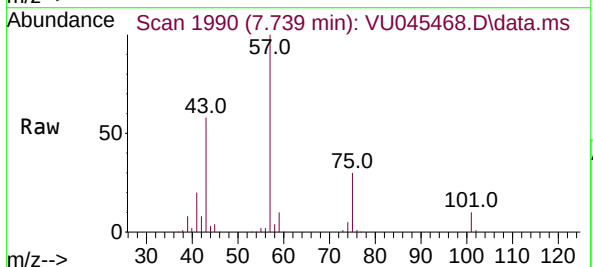
Tgt Ion: 75 Resp: 41914

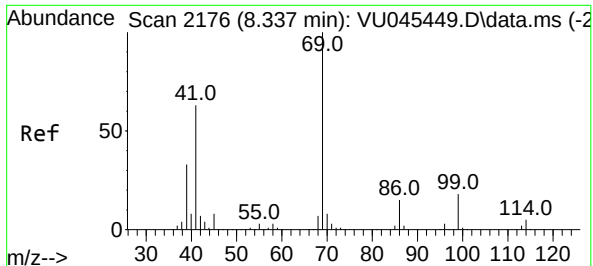
Ion Ratio Lower Upper

75 100

77 0.7 24.6 37.0#

39 25.8 37.1 55.7#

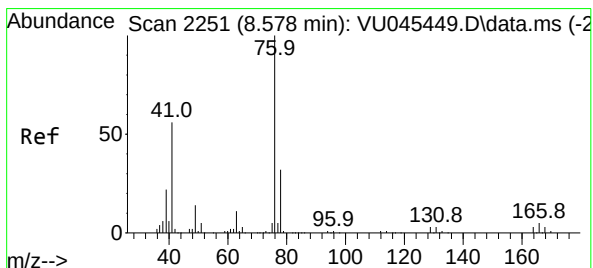
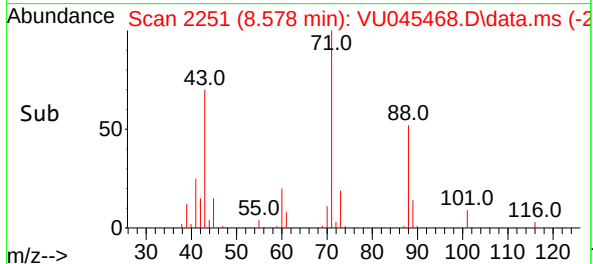
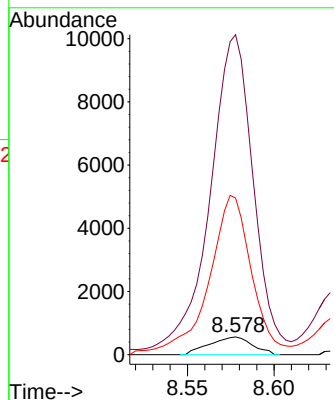
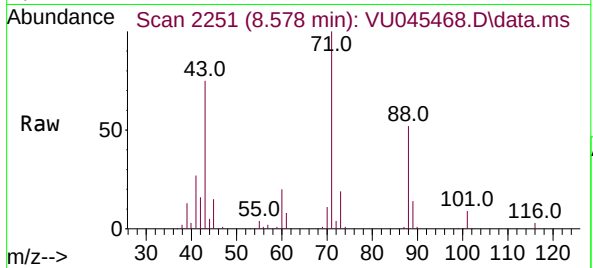




#56
Ethyl methacrylate
Concen: 1.821 ug/l
RT: 8.578 min Scan# 2176
Delta R.T. 0.241 min
Lab File: VU045468.D
Acq: 29 Oct 2021 16:54

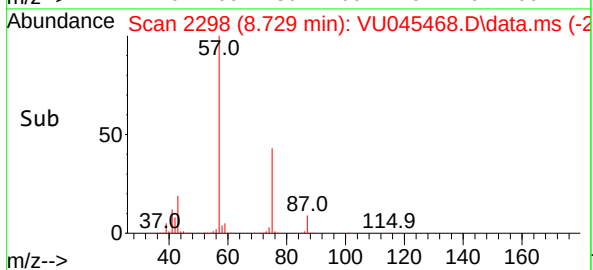
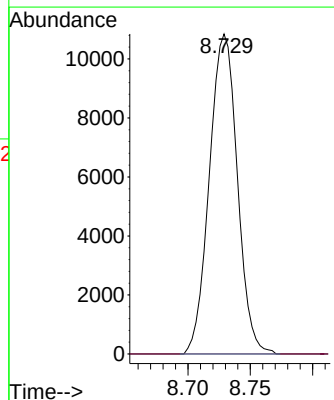
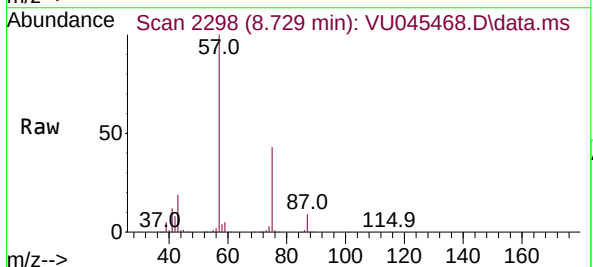
Instrument :
MSVOA_U
ClientSampleId :
CHRT-20310

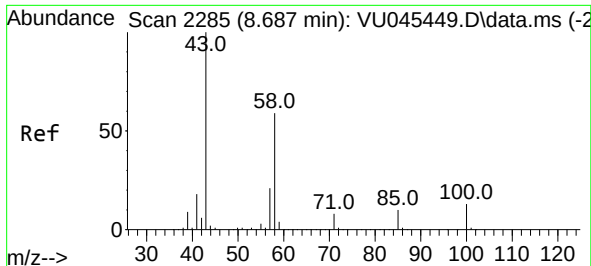
Tgt Ion: 69 Resp: 966
Ion Ratio Lower Upper
69 100
41 1760.0 51.0 76.4#
39 898.0 26.6 39.8#



#57
1,3-Dichloropropane
Concen: 3.375 ug/l
RT: 8.729 min Scan# 2298
Delta R.T. 0.151 min
Lab File: VU045468.D
Acq: 29 Oct 2021 16:54

Tgt Ion: 76 Resp: 16989
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 66.609 ug/l

RT: 8.729 min Scan# 21

Delta R.T. 0.042 min

Lab File: VU045468.D

Acq: 29 Oct 2021 16:54

Instrument :

MSVOA_U

ClientSampleId :

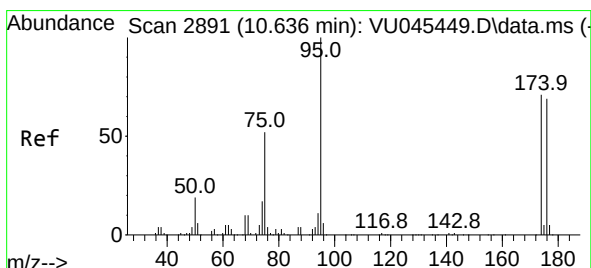
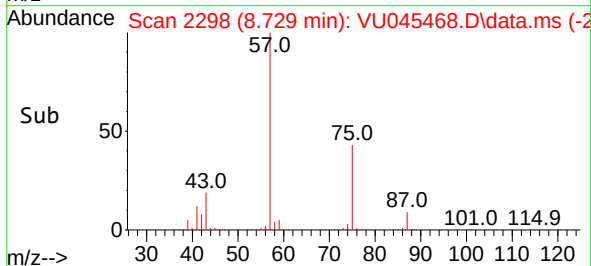
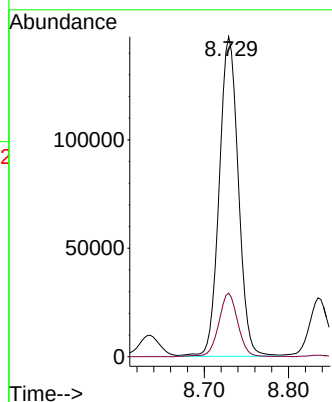
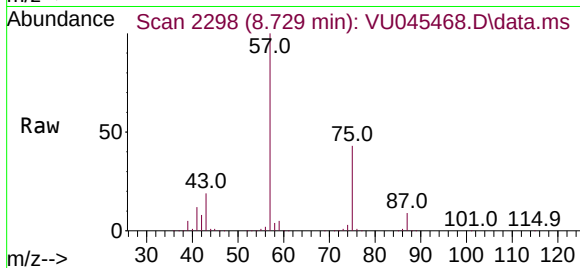
CHRT-20310

Tgt Ion: 43 Resp: 231007

Ion Ratio Lower Upper

43 100

58 20.1 29.5 88.6#



#62

4-Bromofluorobenzene

Concen: 52.886 ug/l

RT: 10.636 min Scan# 2891

Delta R.T. 0.000 min

Lab File: VU045468.D

Acq: 29 Oct 2021 16:54

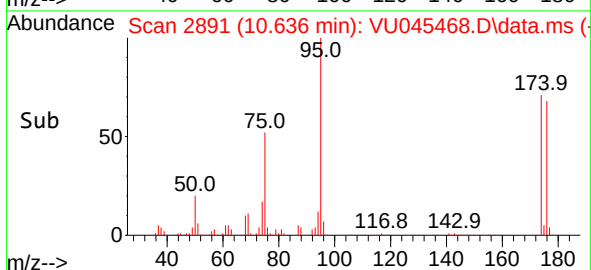
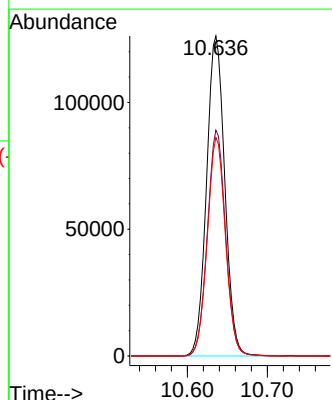
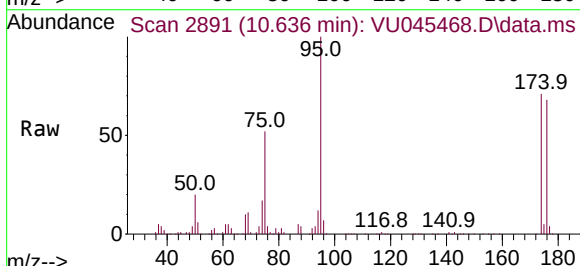
Tgt Ion: 95 Resp: 200298

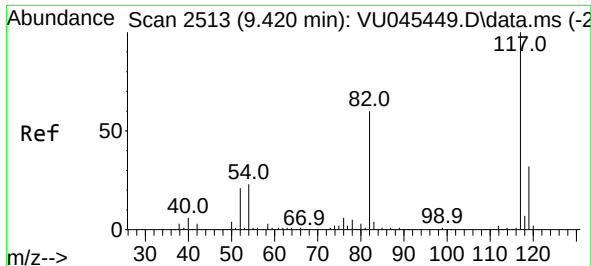
Ion Ratio Lower Upper

95 100

174 70.4 0.0 141.8

176 67.8 0.0 138.2

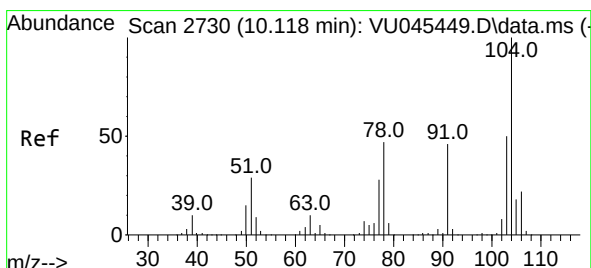
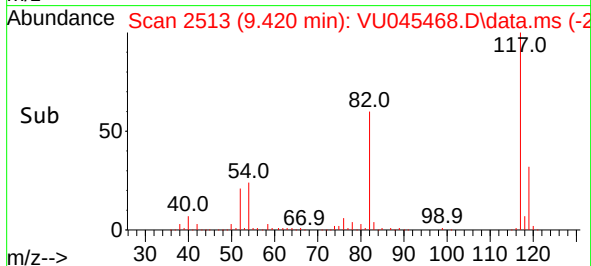
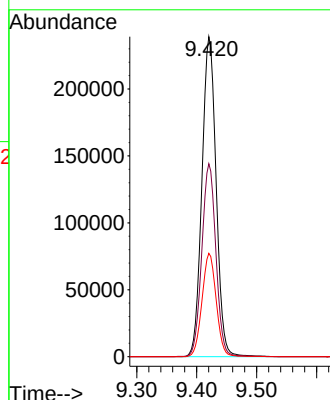
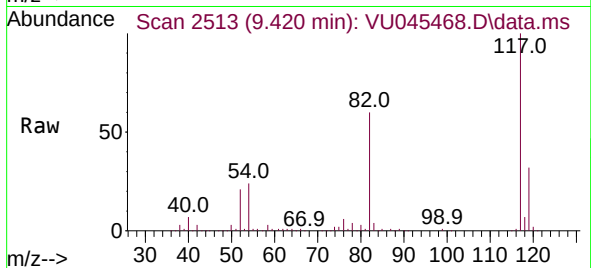




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU045468.D
Acq: 29 Oct 2021 16:54

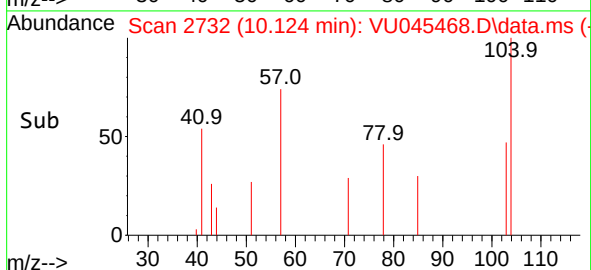
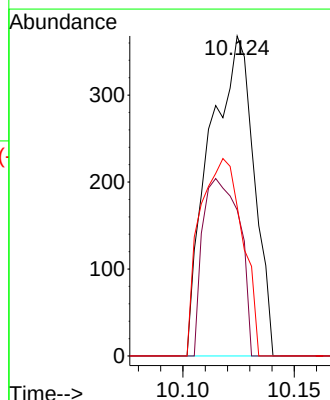
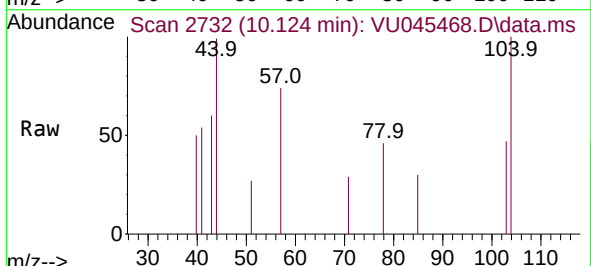
Instrument :
MSVOA_U
ClientSampleId :
CHRT-20310

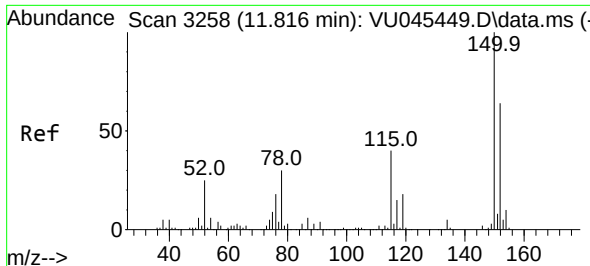
Tgt Ion:117 Resp: 394985
Ion Ratio Lower Upper
117 100
82 60.3 47.8 71.8
119 32.3 25.8 38.8



#70
Styrene
Concen: 1.030 ug/l
RT: 10.124 min Scan# 2732
Delta R.T. 0.006 min
Lab File: VU045468.D
Acq: 29 Oct 2021 16:54

Tgt Ion:104 Resp: 511
Ion Ratio Lower Upper
104 100
78 45.8 41.8 62.6
103 58.9 43.8 65.6

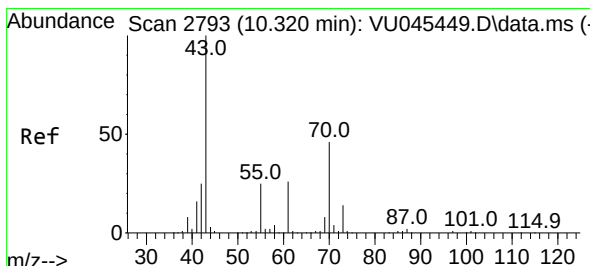
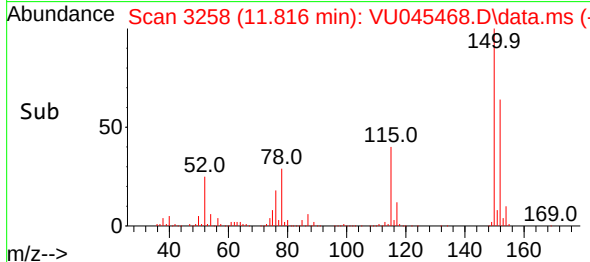
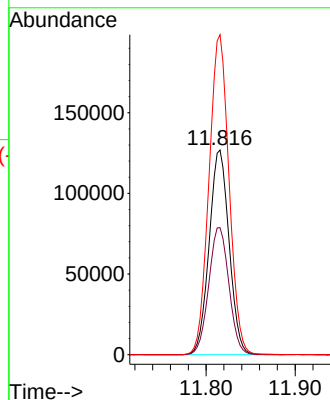
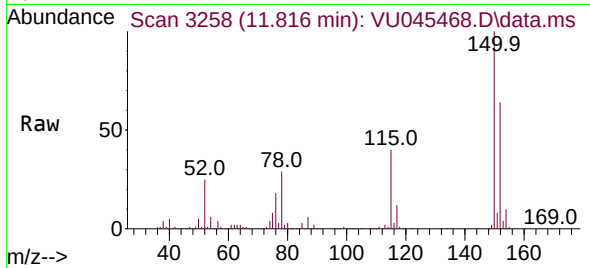




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU045468.D
Acq: 29 Oct 2021 16:54

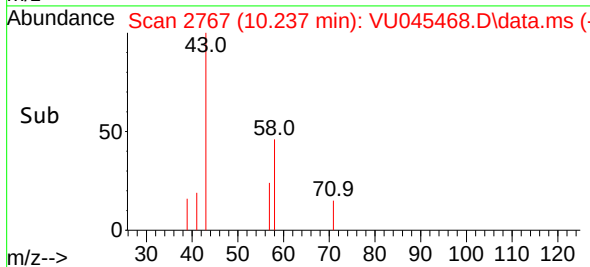
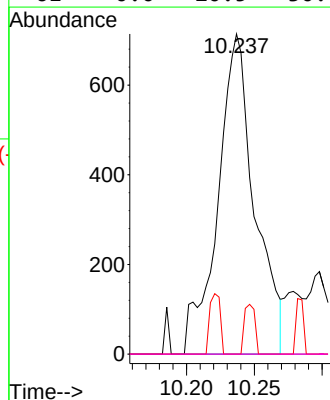
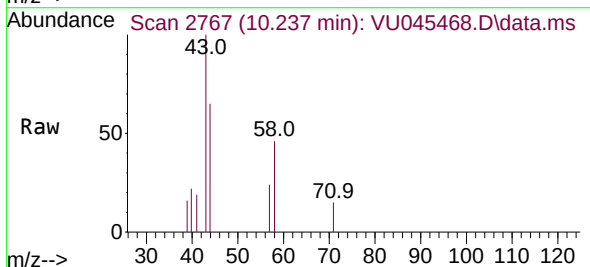
Instrument :
MSVOA_U
ClientSampleId :
CHRT-20310

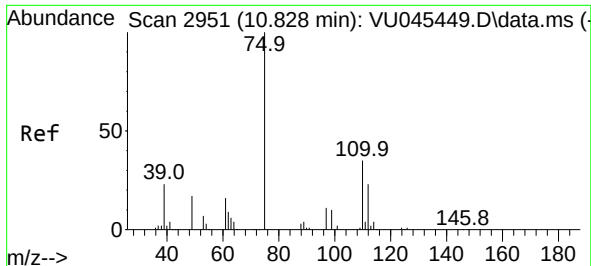
Tgt Ion:152 Resp: 197021
Ion Ratio Lower Upper
152 100
115 62.8 42.7 128.1
150 157.1 0.0 346.8



#74
N-ethyl acetate
Concen: 1.346 ug/l
RT: 10.237 min Scan# 2767
Delta R.T. -0.083 min
Lab File: VU045468.D
Acq: 29 Oct 2021 16:54

Tgt Ion: 43 Resp: 1346
Ion Ratio Lower Upper
43 100
70 0.0 36.9 55.3#
55 4.5 20.6 31.0#
61 0.0 20.5 30.7#

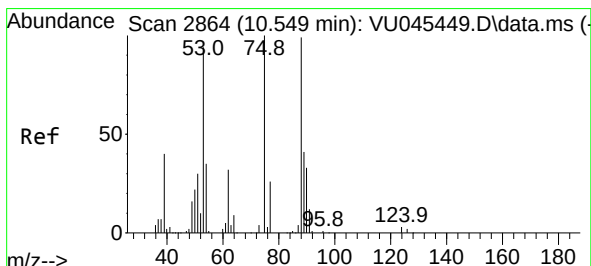
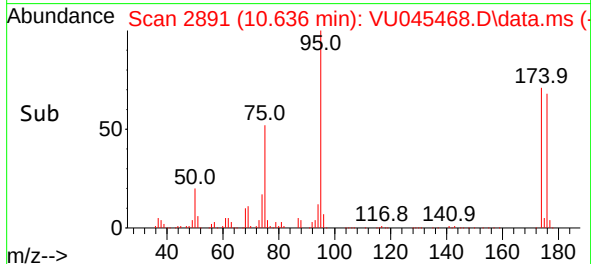
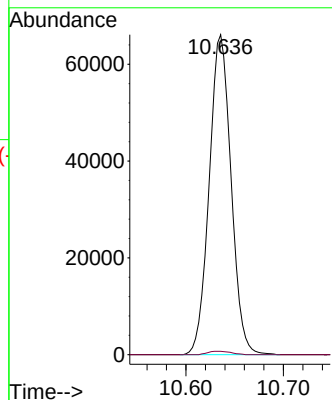
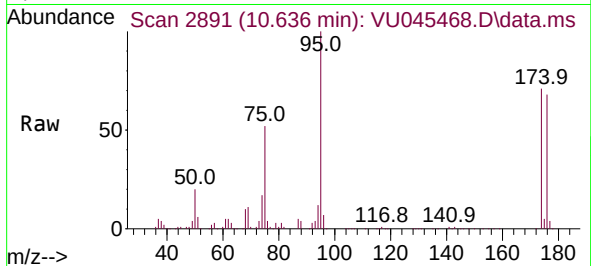




#76
1,2,3-Trichloropropane
Concen: 19.614 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. -0.193 min
Lab File: VU045468.D
Acq: 29 Oct 2021 16:54

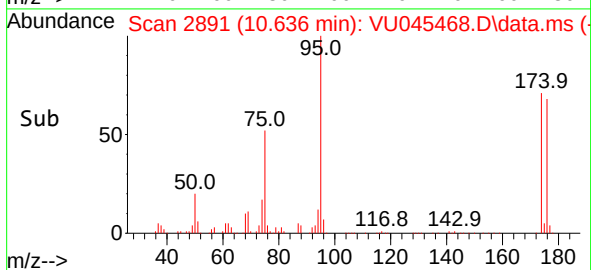
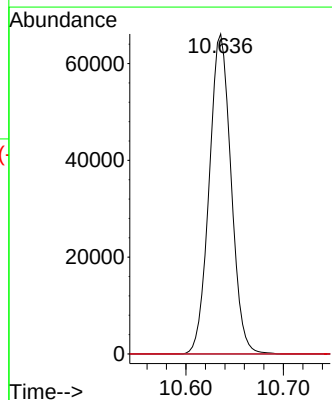
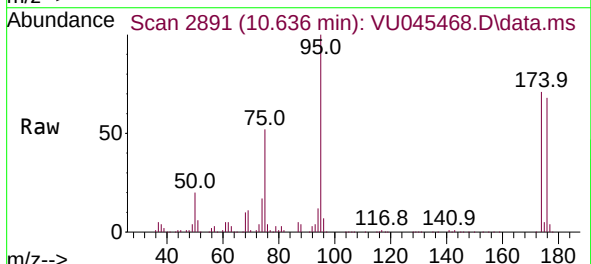
Instrument :
MSVOA_U
ClientSampleId :
CHRT-20310

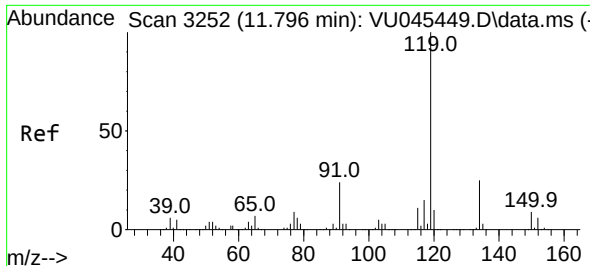
Tgt Ion: 75 Resp: 102962
Ion Ratio Lower Upper
75 100
77 1.1 17.1 51.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 54.532 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.087 min
Lab File: VU045468.D
Acq: 29 Oct 2021 16:54

Tgt Ion: 75 Resp: 102962
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.4#
89 0.0 34.0 51.0#

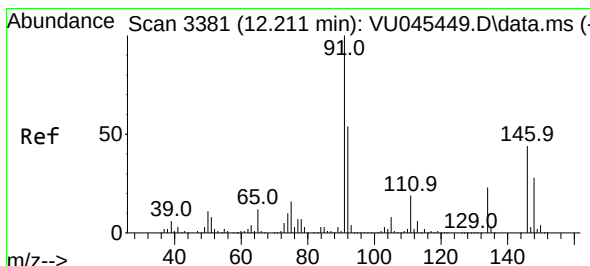
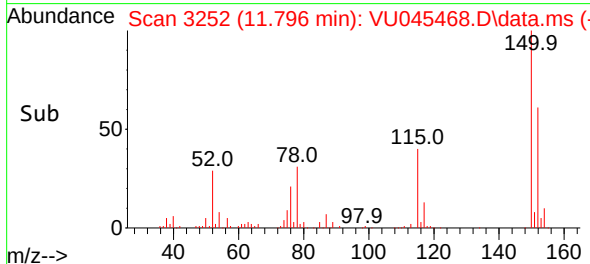
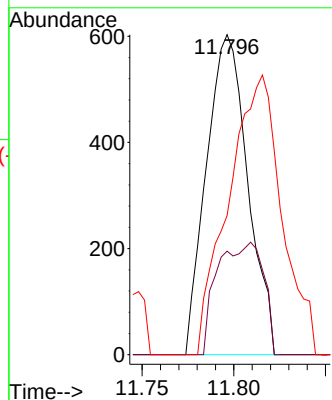
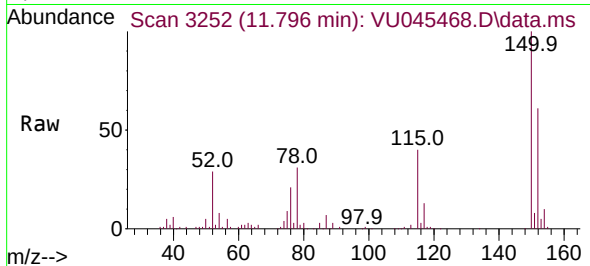




#86
 p-Isopropyltoluene
 Concen: 0.263 ug/l
 RT: 11.796 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VU045468.D
 Acq: 29 Oct 2021 16:54

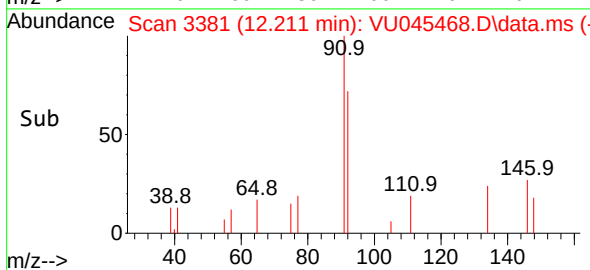
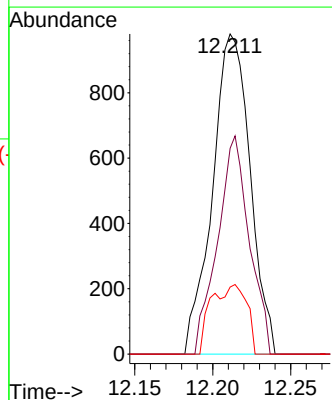
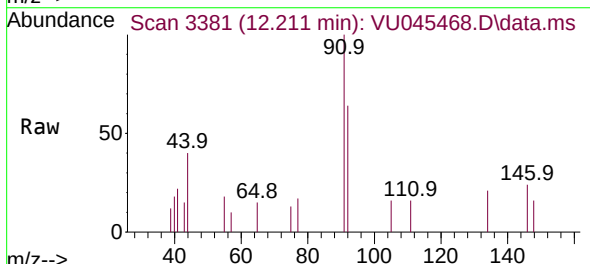
Instrument :
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 ClientSampleId :
 CHRT-20310

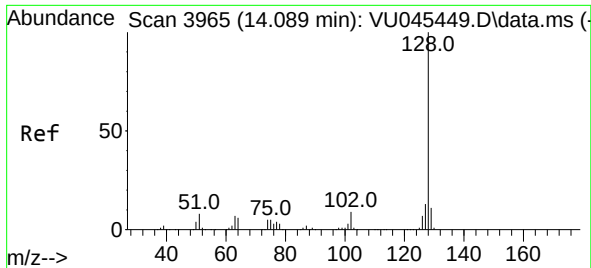
Tgt Ion:119 Resp: 944
 Ion Ratio Lower Upper
 119 100
 134 39.2 12.7 38.1#
 91 112.6 12.2 36.4#



#89
 n-Butylbenzene
 Concen: 1.070 ug/l
 RT: 12.211 min Scan# 3381
 Delta R.T. 0.000 min
 Lab File: VU045468.D
 Acq: 29 Oct 2021 16:54

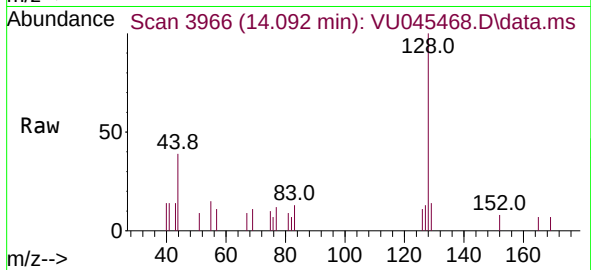
Tgt Ion: 91 Resp: 1646
 Ion Ratio Lower Upper
 91 100
 92 57.5 27.1 81.2
 134 7.6 11.8 35.4#





#95
Naphthalene
Concen: 0.276 ug/l
RT: 14.092 min Scan# 3966
Delta R.T. 0.003 min
Lab File: VU045468.D
Acq: 29 Oct 2021 16:54

Instrument :
MSVOA_U
ClientSampleId :
CHRT-20310



Tgt Ion:	128	Resp:	2857
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	15.8
129	11.1	8.6	13.0

