

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU063022\
 Data File : VU049574.D
 Acq On : 30 Jun 2022 19:30
 Operator : SY/MD
 Sample : N3458-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MW17811-20220621

Quant Time: Jul 01 05:27:26 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U062722W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 28 10:35:43 2022
 Response via : Initial Calibration

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

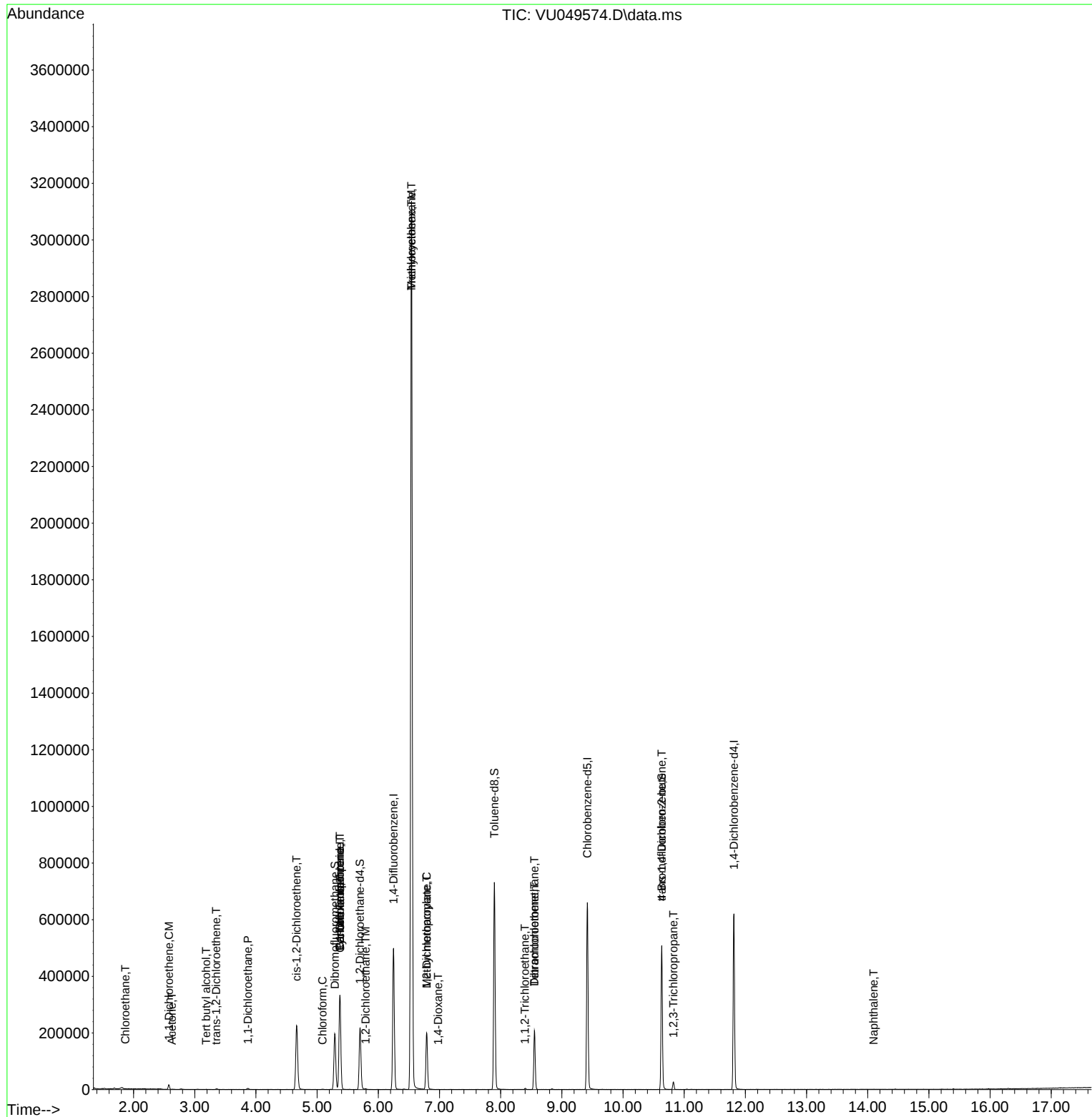
Internal Standards						
1) Pentafluorobenzene	5.372	168	230559	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.250	114	401844	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.417	117	357464	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	162521	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.700	65	162091	45.650	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	91.300%		
35) Dibromofluoromethane	5.288	113	128719	45.785	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.560%		
50) Toluene-d8	7.896	98	478092	47.678	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	95.360%		
62) 4-Bromofluorobenzene	10.632	95	168951	43.984	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	87.960%		
Target Compounds						
						Qvalue
3) Chloromethane	1.520	50	1822	Below Cal	#	84
6) Chloroethane	1.864	64	41	1.938	ug/l #	44
11) Tert butyl alcohol	3.189	59	233	0.280	ug/l #	37
12) 1,1-Dichloroethene	2.578	96	5767	2.303	ug/l	95
16) Acetone	2.626	43	1056	0.590	ug/l	89
20) Methylene Chloride	3.041	84	251	Below Cal	#	50
21) trans-1,2-Dichloroethene	3.350	96	767	0.284	ug/l	93
24) 1,1-Dichloroethane	3.867	63	5072	0.914	ug/l #	82
27) cis-1,2-Dichloroethene	4.665	96	119336	38.261	ug/l	97
30) Chloroform	5.086	83	1371	0.250	ug/l #	83
31) Cyclohexane	5.375	56	5163	0.968	ug/l #	4
36) 1,1-Dichloropropene	5.372	75	18066	4.432	ug/l #	50
38) Carbon Tetrachloride	5.372	117	24104	5.638	ug/l #	17
39) Methylcyclohexane	6.542	83	13300	2.722	ug/l #	1
42) 1,2-Dichloroethane	5.793	62	1471	0.321	ug/l #	74
44) Trichloroethene	6.542	130	1029038	351.715	ug/l	86
45) 1,2-Dichloropropane	6.790	63	79835	23.410	ug/l	98
48) Methyl methacrylate	6.790	41	39358	10.289	ug/l #	32
49) 1,4-Dioxane	6.980	88	136	1.388	ug/l #	1
55) 1,1,2-Trichloroethane	8.398	97	1423	0.470	ug/l	89
60) Dibromochloromethane	8.552	129	43538	13.843	ug/l #	11
64) Tetrachloroethene	8.552	164	44838	19.556	ug/l	95
76) 1,2,3-Trichloropropane	10.822	75	11317	2.054	ug/l	100
81) trans-1,4-Dichloro-2-b...	10.632	75	89061	59.697	ug/l #	15
95) Naphthalene	14.098	128	822	1.798	ug/l #	69

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

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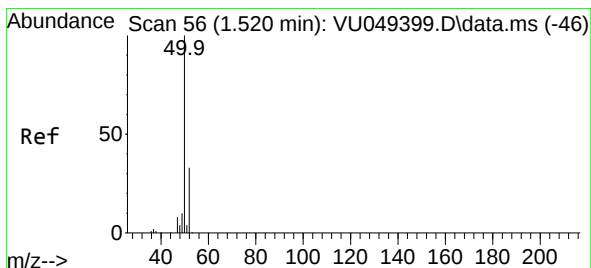
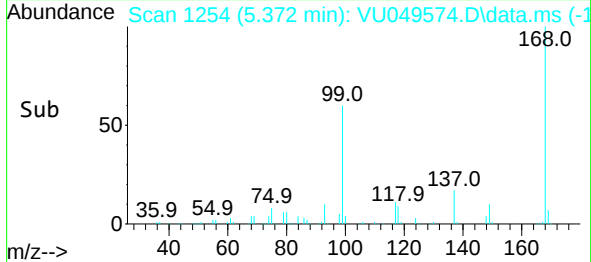
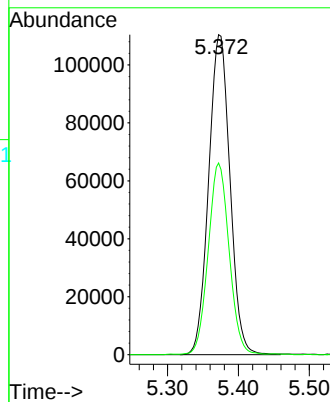
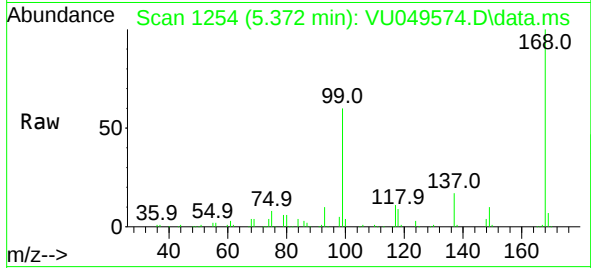




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.372 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU049574.D
Acq: 30 Jun 2022 19:30

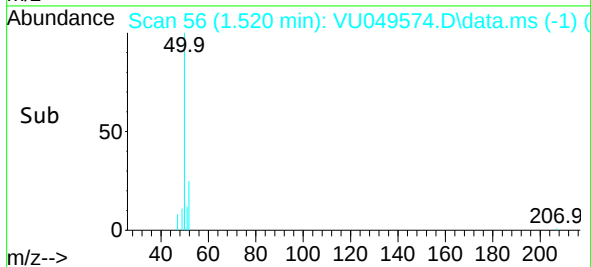
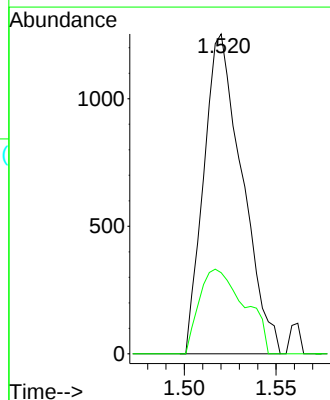
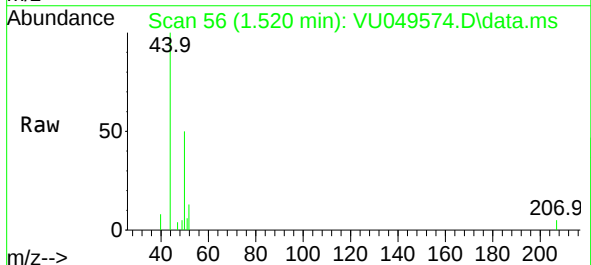
Instrument :
MSVOA_U
ClientSampleId :
MW17811-20220621

Tgt Ion:168 Resp: 230559
Ion Ratio Lower Upper
168 100
99 59.8 39.3 58.9#



#3
Chloromethane
Concen: Below Cal
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU049574.D
Acq: 30 Jun 2022 19:30

Tgt Ion: 50 Resp: 1822
Ion Ratio Lower Upper
50 100
52 25.4 27.4 41.2#

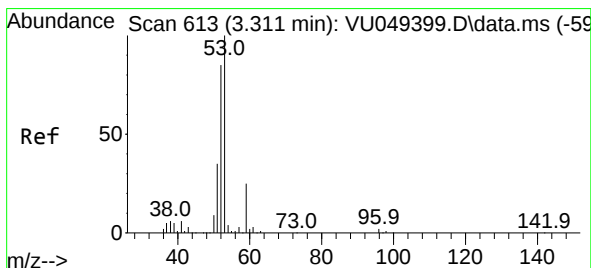
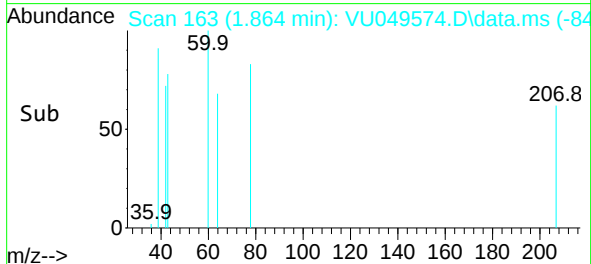
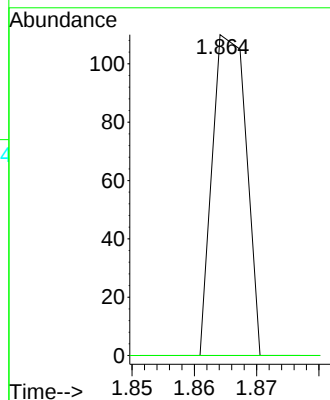
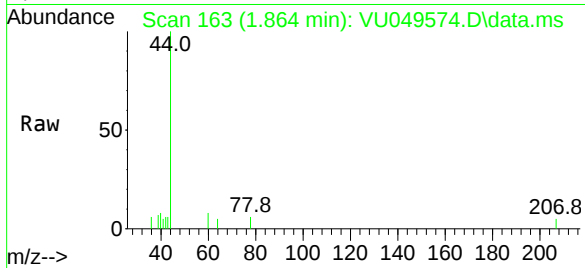




#6
Chloroethane
Concen: 1.938 ug/l
RT: 1.864 min Scan# 11
Delta R.T. -0.045 min
Lab File: VU049574.D
Acq: 30 Jun 2022 19:30

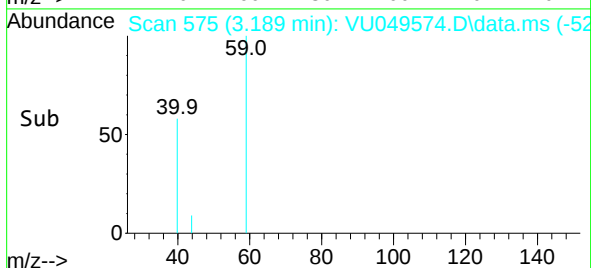
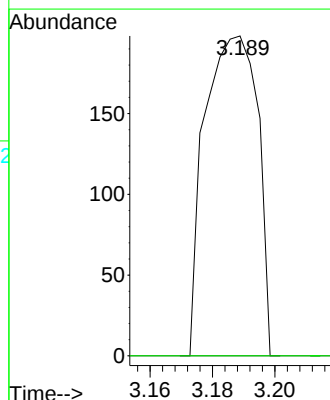
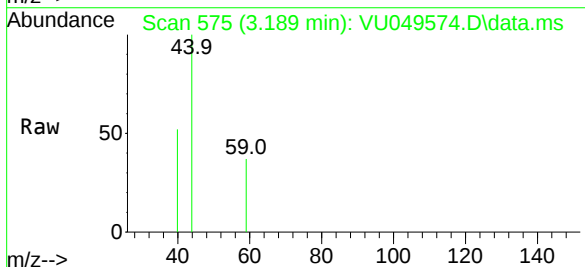
Instrument :
MSVOA_U
ClientSampleId :
MW17811-20220621

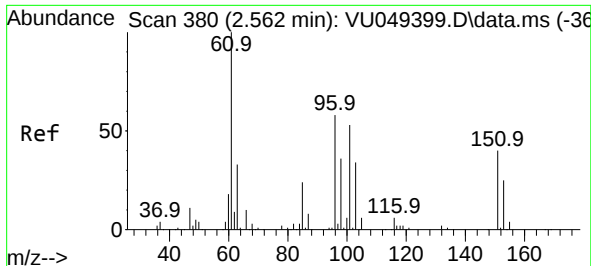
Tgt Ion: 64 Resp: 41
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



#11
Tert butyl alcohol
Concen: 0.280 ug/l
RT: 3.189 min Scan# 575
Delta R.T. -0.122 min
Lab File: VU049574.D
Acq: 30 Jun 2022 19:30

Tgt Ion: 59 Resp: 233
Ion Ratio Lower Upper
59 100
57 0.0 30.6 45.8#





#12

1,1-Dichloroethene

Concen: 2.303 ug/l

RT: 2.578 min Scan# 380

Delta R.T. 0.016 min

Lab File: VU049574.D

Acq: 30 Jun 2022 19:30

Instrument :

MSVOA_U

ClientSampleId :

MW17811-20220621

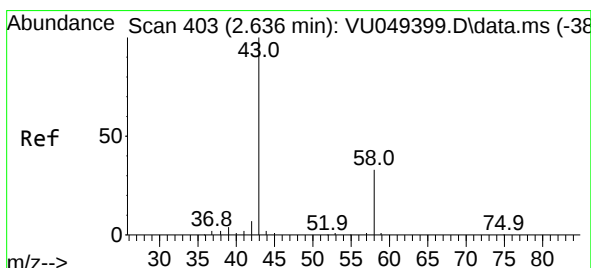
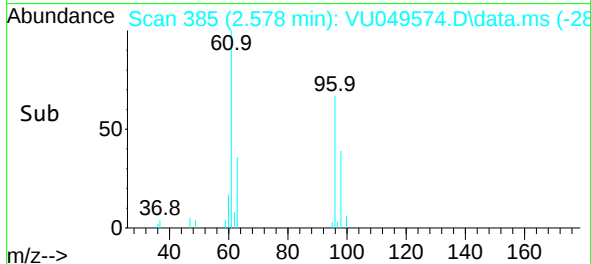
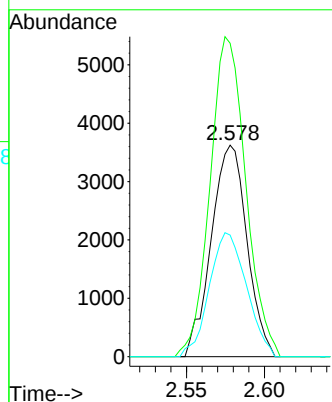
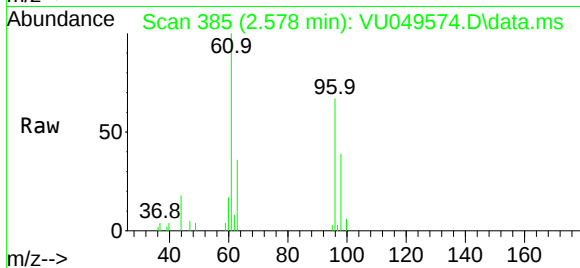
Tgt Ion: 96 Resp: 5767

Ion Ratio Lower Upper

96 100

61 148.2 122.2 183.2

98 57.5 50.7 76.1



#16

Acetone

Concen: 0.590 ug/l

RT: 2.626 min Scan# 400

Delta R.T. -0.010 min

Lab File: VU049574.D

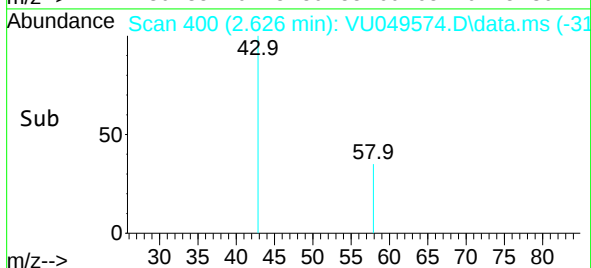
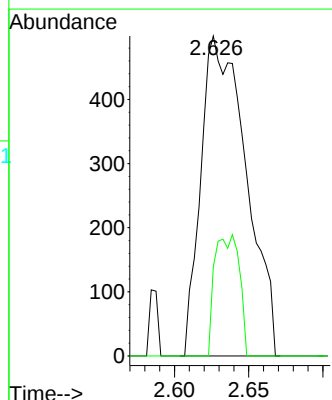
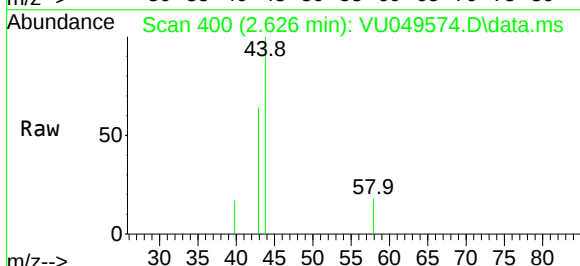
Acq: 30 Jun 2022 19:30

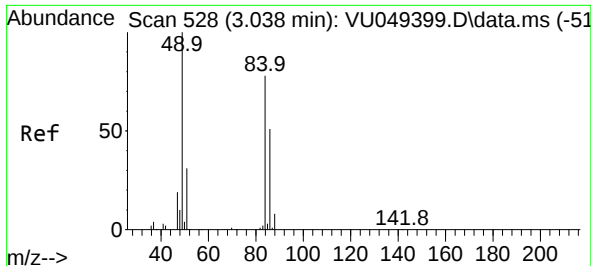
Tgt Ion: 43 Resp: 1056

Ion Ratio Lower Upper

43 100

58 27.9 27.5 41.3

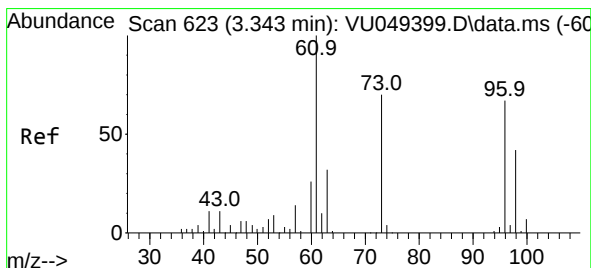
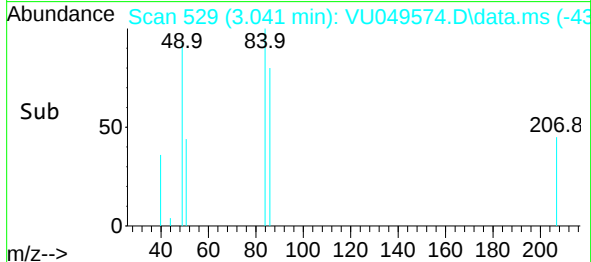
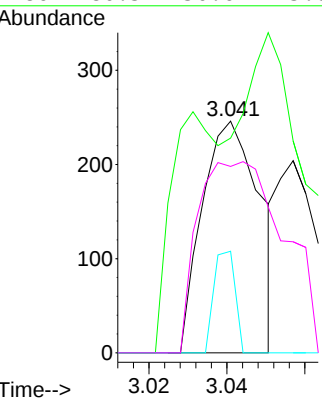
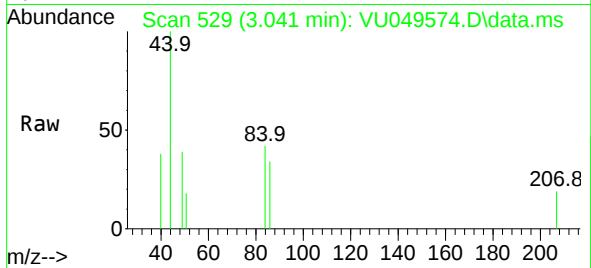




#20
Methylene Chloride
Concen: Below Cal
RT: 3.041 min Scan# 51
Delta R.T. 0.003 min
Lab File: VU049574.D
Acq: 30 Jun 2022 19:30

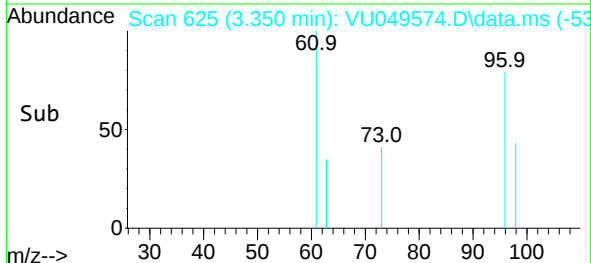
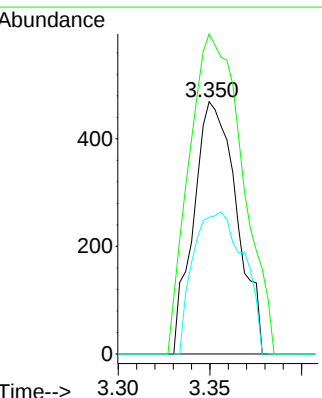
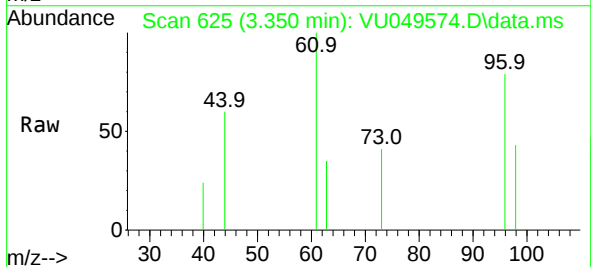
Instrument :
MSVOA_U
ClientSampleId :
MW17811-20220621

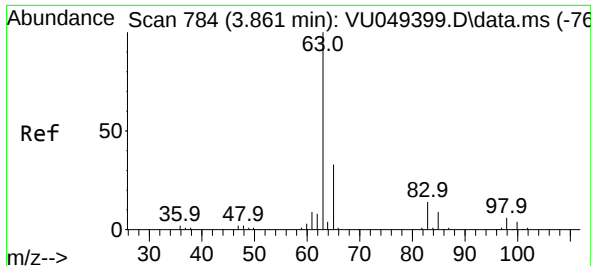
Tgt Ion:	84	Resp:	251
Ion	Ratio	Lower	Upper
84	100		
49	28.0	86.6	129.8#
51	43.9	26.6	40.0#
86	80.5	50.6	75.8#



#21
trans-1,2-Dichloroethene
Concen: 0.284 ug/l
RT: 3.350 min Scan# 625
Delta R.T. 0.006 min
Lab File: VU049574.D
Acq: 30 Jun 2022 19:30

Tgt Ion:	96	Resp:	767
Ion	Ratio	Lower	Upper
96	100		
61	126.9	106.1	159.1
98	54.2	50.8	76.2





#24

1,1-Dichloroethane

Concen: 0.914 ug/l

RT: 3.867 min Scan# 71

Delta R.T. 0.006 min

Lab File: VU049574.D

Acq: 30 Jun 2022 19:30

Instrument :

MSVOA_U

ClientSampleId :

MW17811-20220621

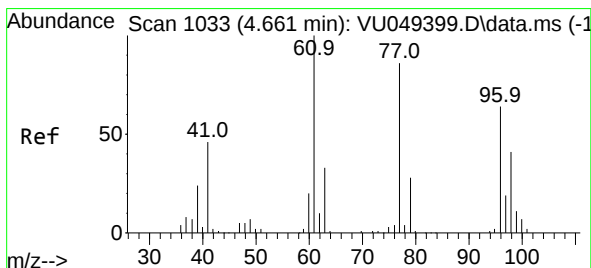
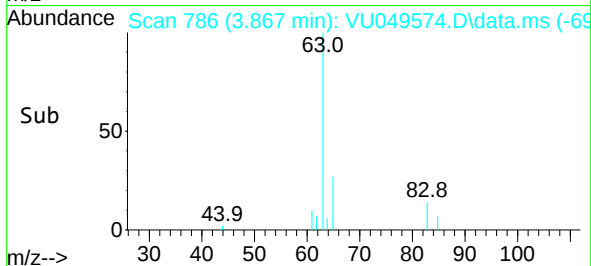
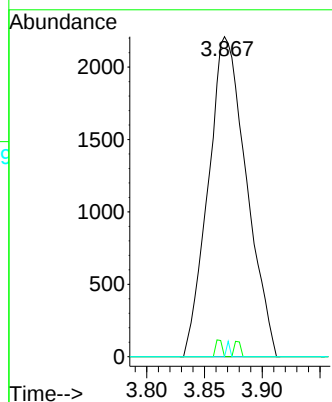
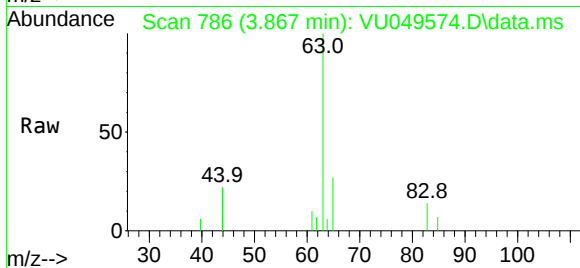
Tgt Ion: 63 Resp: 5072

Ion Ratio Lower Upper

63 100

98 0.0 3.6 10.9#

100 0.0 2.4 7.2#



#27

cis-1,2-Dichloroethene

Concen: 38.261 ug/l

RT: 4.665 min Scan# 1034

Delta R.T. 0.003 min

Lab File: VU049574.D

Acq: 30 Jun 2022 19:30

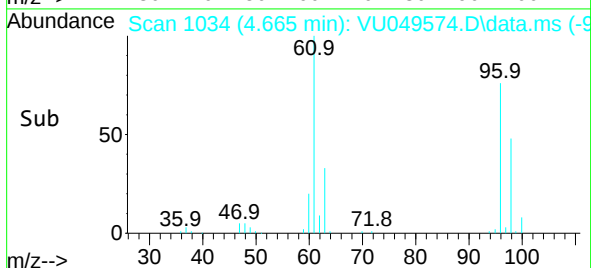
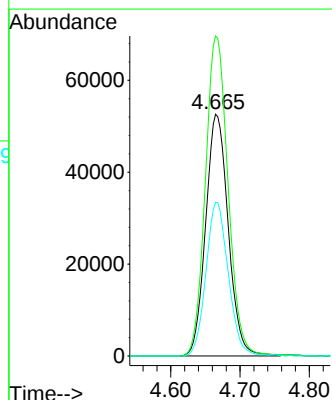
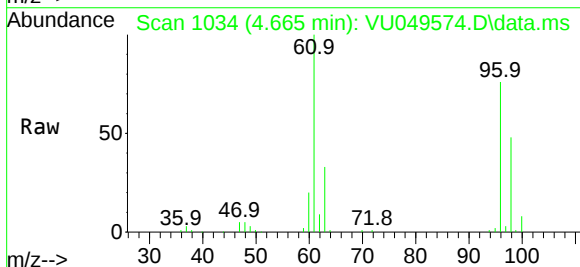
Tgt Ion: 96 Resp: 119336

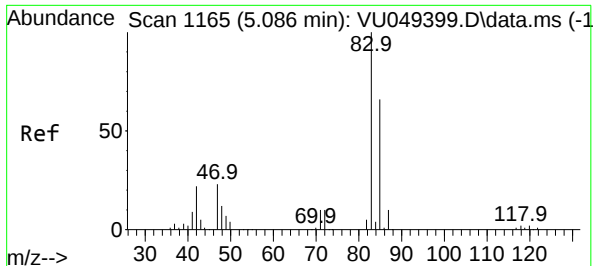
Ion Ratio Lower Upper

96 100

61 132.4 0.0 271.6

98 62.7 0.0 128.2





#30

Chloroform

Concen: 0.250 ug/l

RT: 5.086 min Scan# 1165

Delta R.T. 0.000 min

Lab File: VU049574.D

Acq: 30 Jun 2022 19:30

Instrument :

MSVOA_U

ClientSampleId :

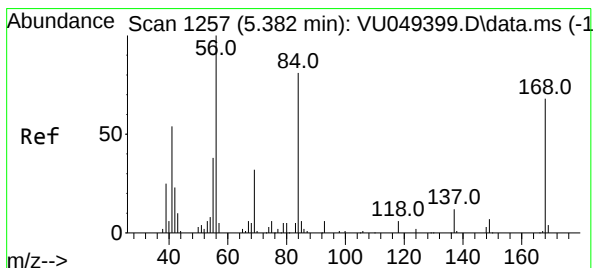
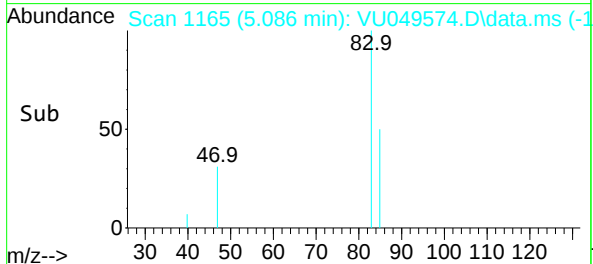
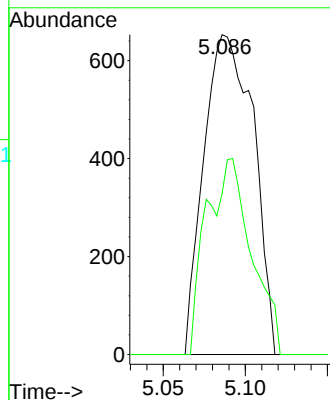
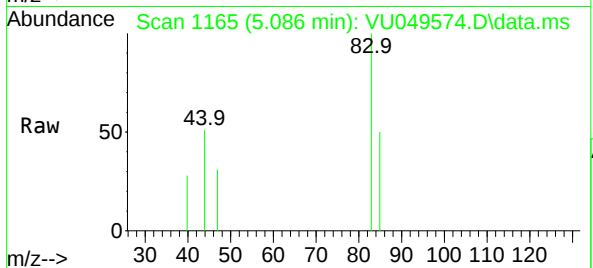
MW17811-20220621

Tgt Ion: 83 Resp: 1371

Ion Ratio Lower Upper

83 100

85 50.4 51.2 76.8#



#31

Cyclohexane

Concen: 0.968 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.006 min

Lab File: VU049574.D

Acq: 30 Jun 2022 19:30

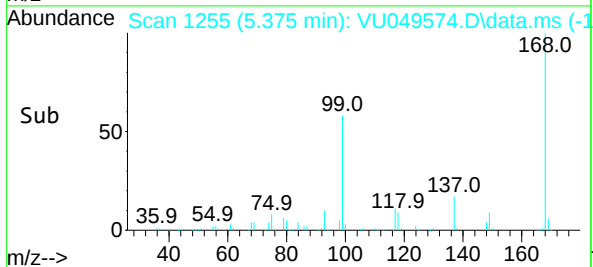
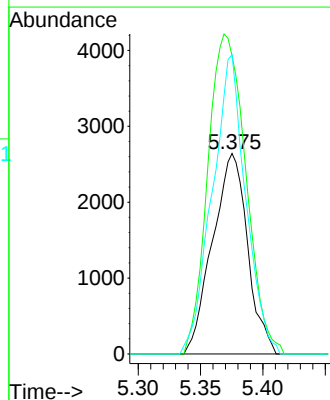
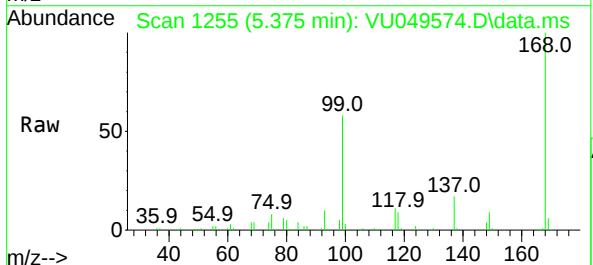
Tgt Ion: 56 Resp: 5163

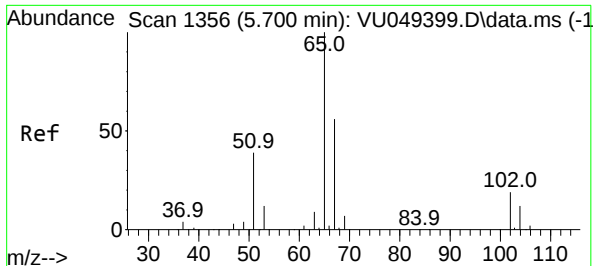
Ion Ratio Lower Upper

56 100

69 148.8 27.8 41.8#

84 149.2 74.2 111.4#





#33

1,2-Dichloroethane-d4

Concen: 45.650 ug/l

RT: 5.700 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU049574.D

Acq: 30 Jun 2022 19:30

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MSVOA_U

ClientSampleId :

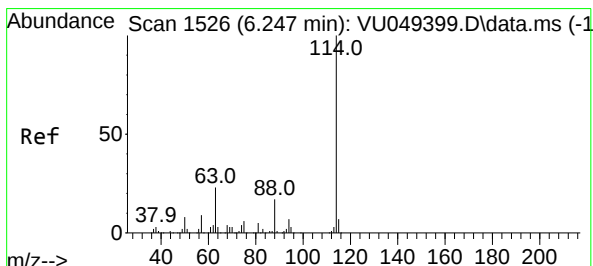
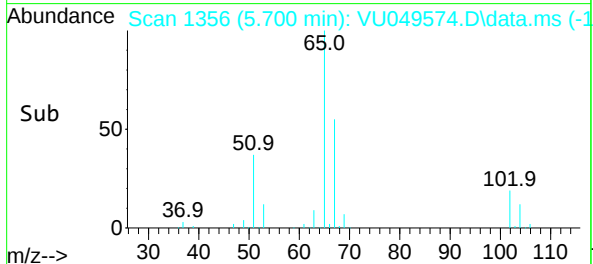
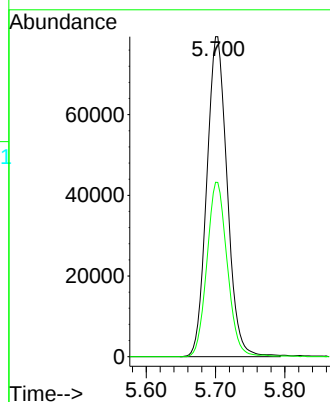
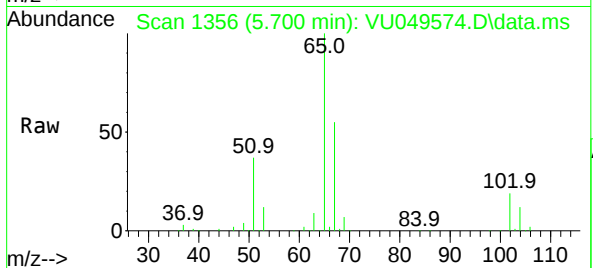
MW17811-20220621

Tgt Ion: 65 Resp: 162091

Ion Ratio Lower Upper

65 100

67 54.0 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 1527

Delta R.T. 0.003 min

Lab File: VU049574.D

Acq: 30 Jun 2022 19:30

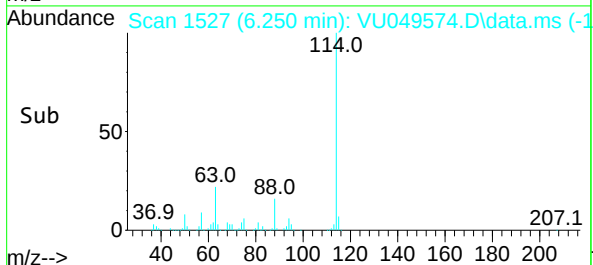
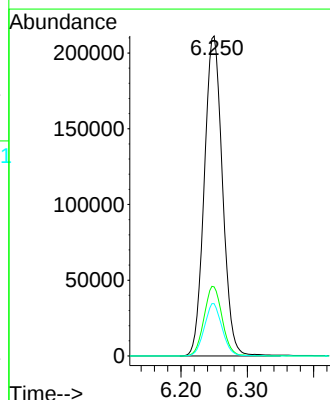
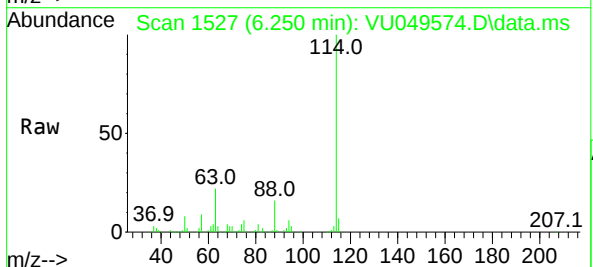
Tgt Ion: 114 Resp: 401844

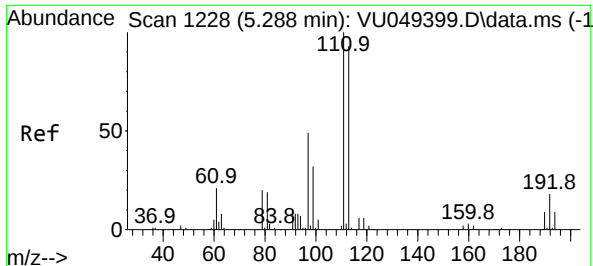
Ion Ratio Lower Upper

114 100

63 21.6 0.0 37.8

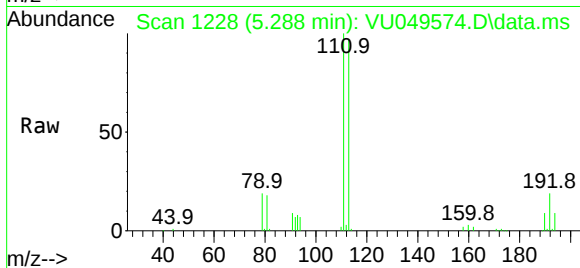
88 16.3 0.0 29.2



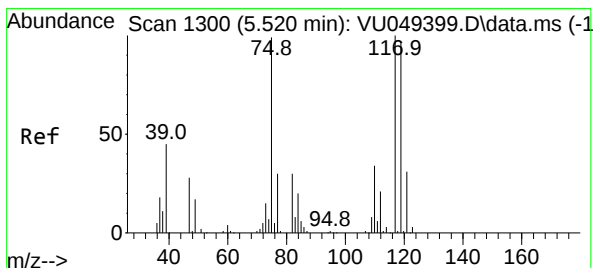
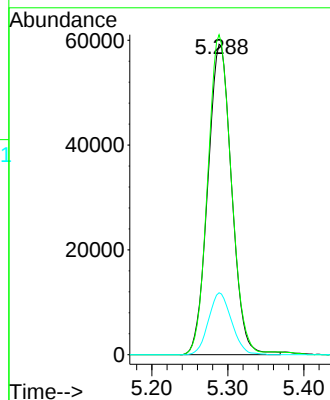
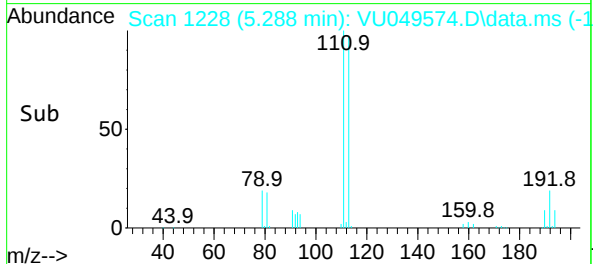


#35
Dibromofluoromethane
Concen: 45.785 ug/l
RT: 5.288 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU049574.D
Acq: 30 Jun 2022 19:30

Instrument :
MSVOA_U
ClientSampleId :
MW17811-20220621

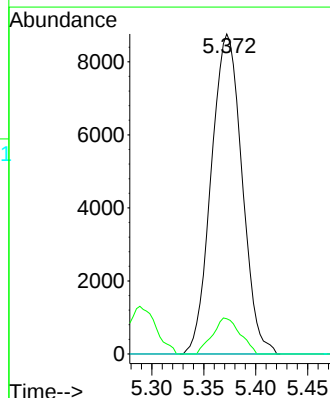
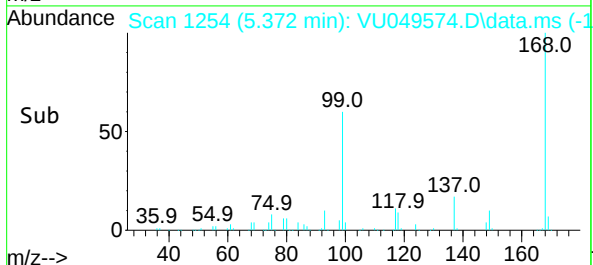
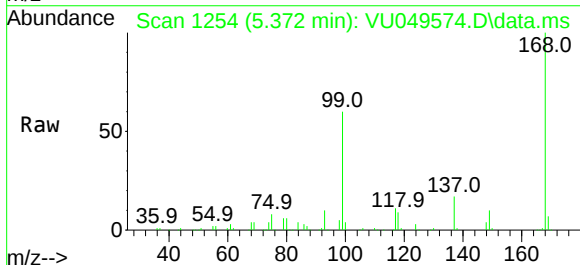


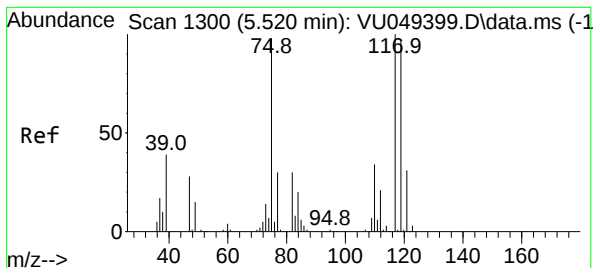
Tgt Ion:113 Resp: 128719
Ion Ratio Lower Upper
113 100
111 101.7 82.1 123.1
192 19.3 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.432 ug/l
RT: 5.372 min Scan# 1254
Delta R.T. -0.148 min
Lab File: VU049574.D
Acq: 30 Jun 2022 19:30

Tgt Ion: 75 Resp: 18066
Ion Ratio Lower Upper
75 100
110 10.0 18.4 55.2#
77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 5.638 ug/l

RT: 5.372 min Scan# 1

Delta R.T. -0.148 min

Lab File: VU049574.D

Acq: 30 Jun 2022 19:30

Instrument :

MSVOA_U

ClientSampleId :

MW17811-20220621

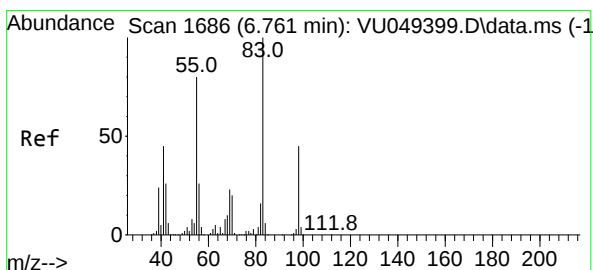
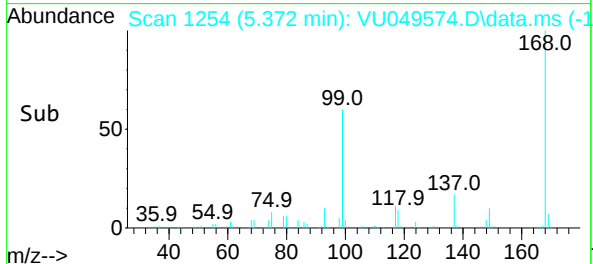
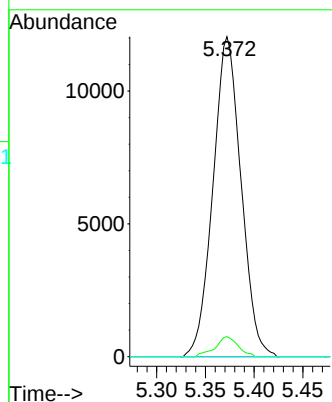
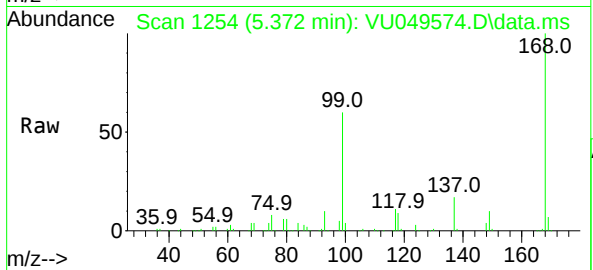
Tgt Ion:117 Resp: 24104

Ion Ratio Lower Upper

117 100

119 6.3 76.8 115.2#

121 0.0 24.7 37.1#



#39

Methylcyclohexane

Concen: 2.722 ug/l

RT: 6.542 min Scan# 1618

Delta R.T. -0.219 min

Lab File: VU049574.D

Acq: 30 Jun 2022 19:30

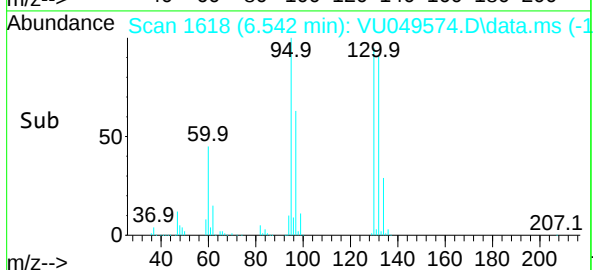
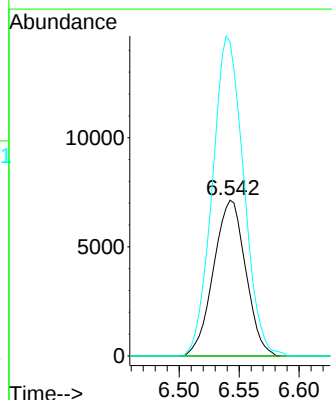
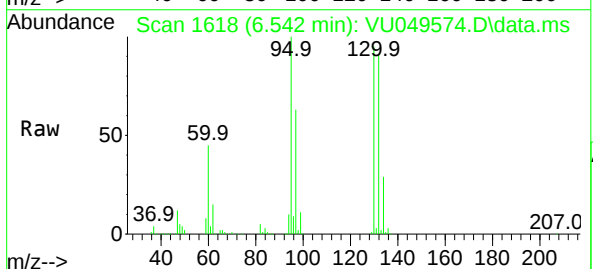
Tgt Ion: 83 Resp: 13300

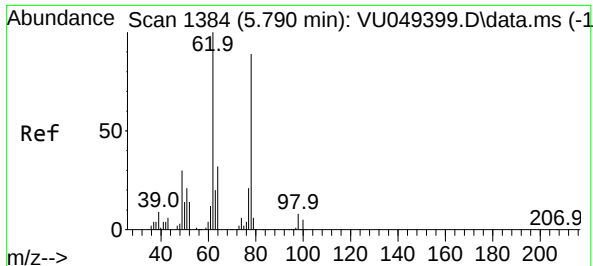
Ion Ratio Lower Upper

83 100

55 0.0 55.3 82.9#

98 201.1 37.3 55.9#





#42

1,2-Dichloroethane

Concen: 0.321 ug/l

RT: 5.793 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU049574.D

Acq: 30 Jun 2022 19:30

Instrument :

MSVOA_U

ClientSampleId :

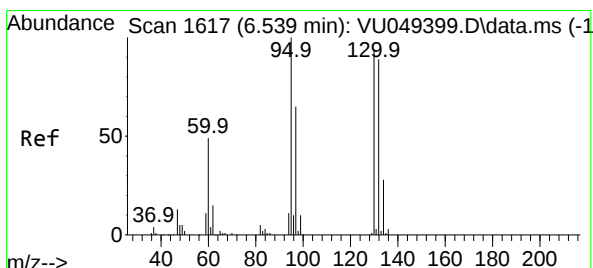
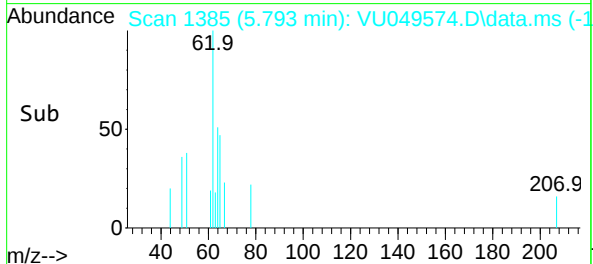
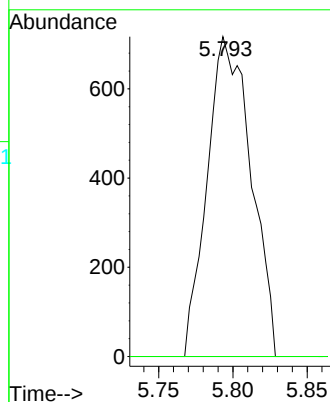
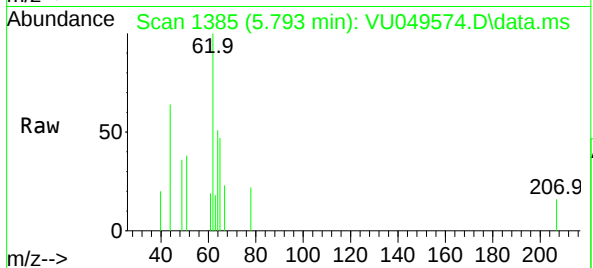
MW17811-20220621

Tgt Ion: 62 Resp: 1471

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.6



#44

Trichloroethene

Concen: 351.715 ug/l

RT: 6.542 min Scan# 1618

Delta R.T. 0.003 min

Lab File: VU049574.D

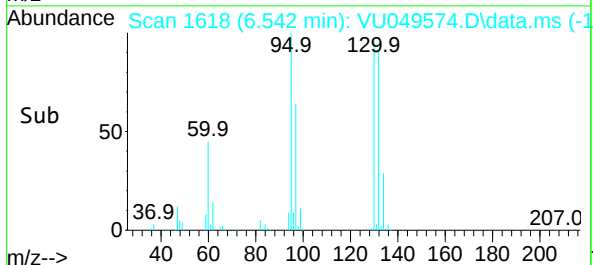
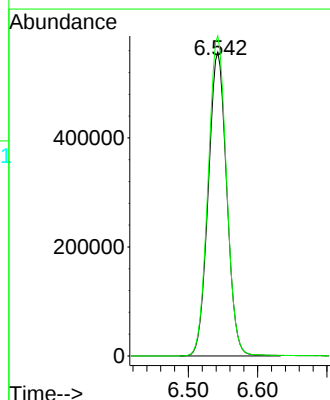
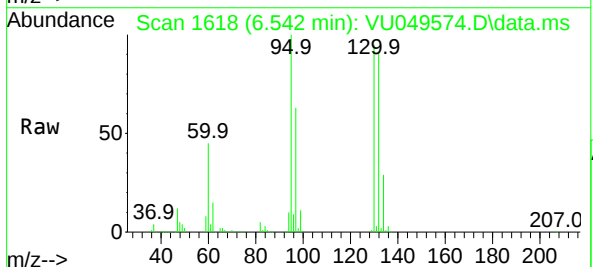
Acq: 30 Jun 2022 19:30

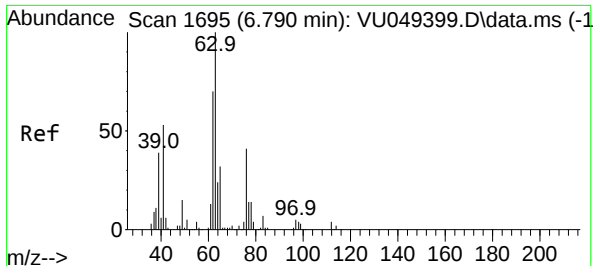
Tgt Ion:130 Resp: 1029038

Ion Ratio Lower Upper

130 100

95 105.4 0.0 184.6





#45

1,2-Dichloropropane

Concen: 23.410 ug/l

RT: 6.790 min Scan# 1695

Delta R.T. 0.000 min

Lab File: VU049574.D

Acq: 30 Jun 2022 19:30

Instrument :

MSVOA_U

ClientSampleId :

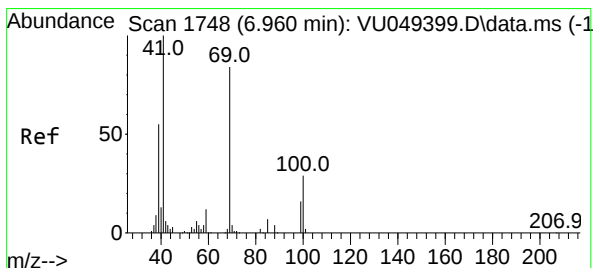
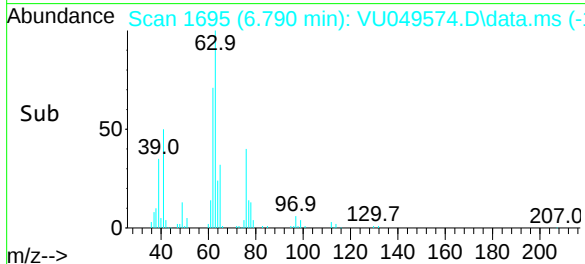
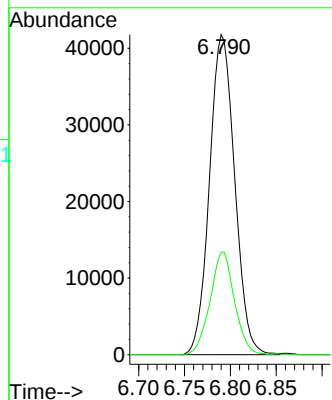
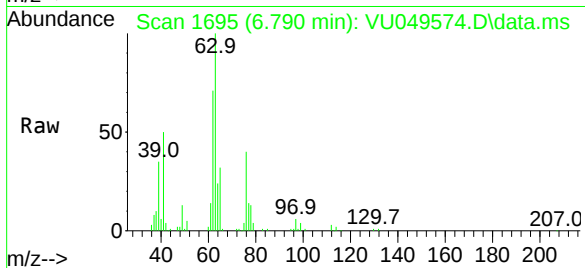
MW17811-20220621

Tgt Ion: 63 Resp: 79835

Ion Ratio Lower Upper

63 100

65 32.1 25.0 37.4



#48

Methyl methacrylate

Concen: 10.289 ug/l

RT: 6.790 min Scan# 1695

Delta R.T. -0.170 min

Lab File: VU049574.D

Acq: 30 Jun 2022 19:30

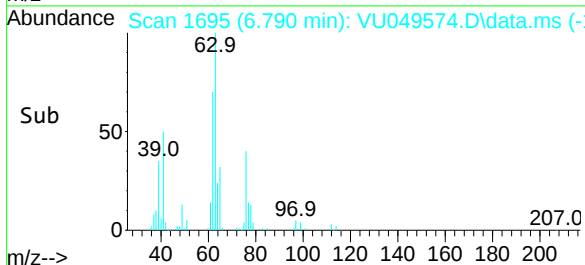
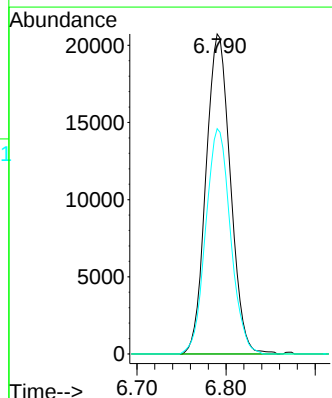
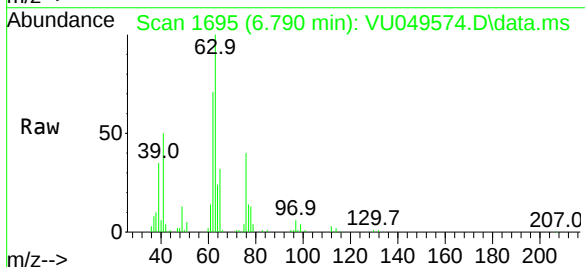
Tgt Ion: 41 Resp: 39358

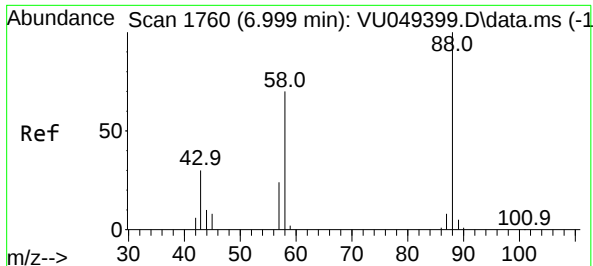
Ion Ratio Lower Upper

41 100

69 0.0 79.8 119.6#

39 71.8 47.9 71.9





#49

1,4-Dioxane

Concen: 1.388 ug/l

RT: 6.980 min Scan# 1

Delta R.T. -0.019 min

Lab File: VU049574.D

Acq: 30 Jun 2022 19:30

Instrument :

MSVOA_U

ClientSampleId :

MW17811-20220621

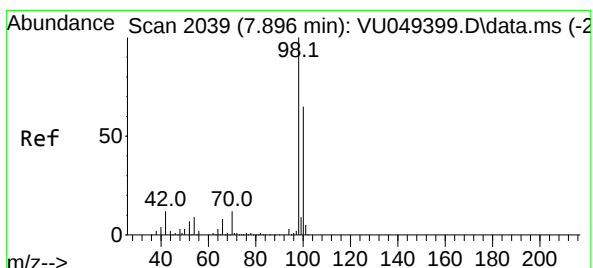
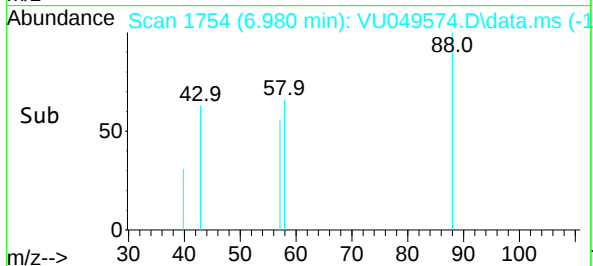
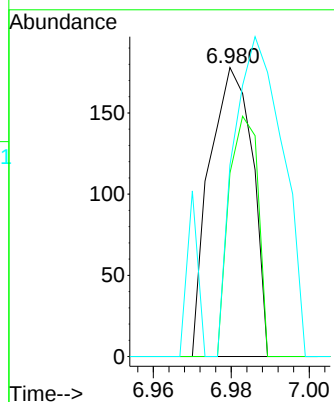
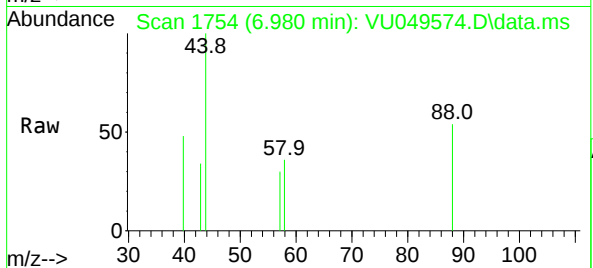
Tgt Ion: 88 Resp: 136

Ion Ratio Lower Upper

88 100

43 56.6 0.0 0.0#

58 126.5 15.4 23.0#



#50

Toluene-d8

Concen: 47.678 ug/l

RT: 7.896 min Scan# 2039

Delta R.T. 0.000 min

Lab File: VU049574.D

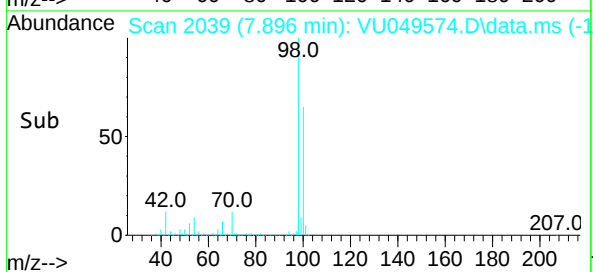
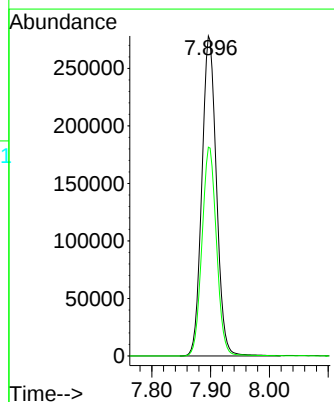
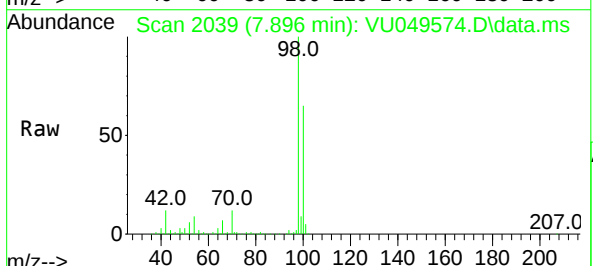
Acq: 30 Jun 2022 19:30

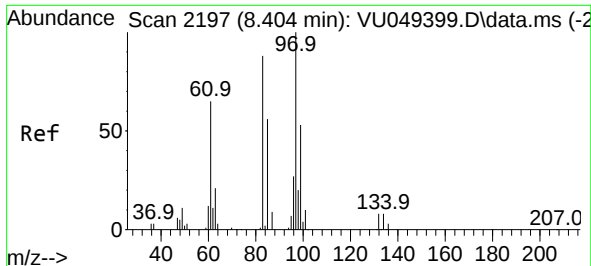
Tgt Ion: 98 Resp: 478092

Ion Ratio Lower Upper

98 100

100 65.2 51.7 77.5

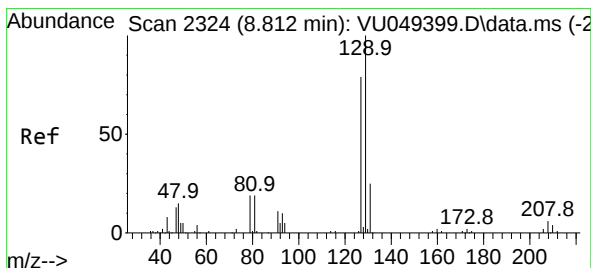
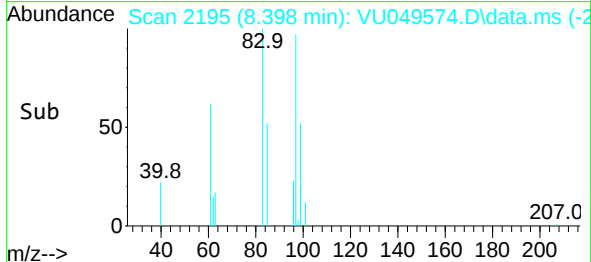
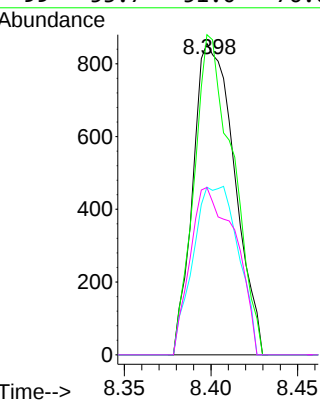
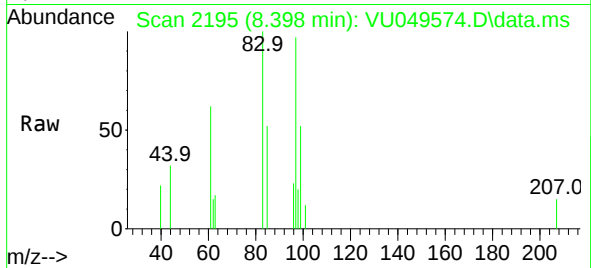




#55
 1,1,2-Trichloroethane
 Concen: 0.470 ug/l
 RT: 8.398 min Scan# 2195
 Delta R.T. -0.006 min
 Lab File: VU049574.D
 Acq: 30 Jun 2022 19:30

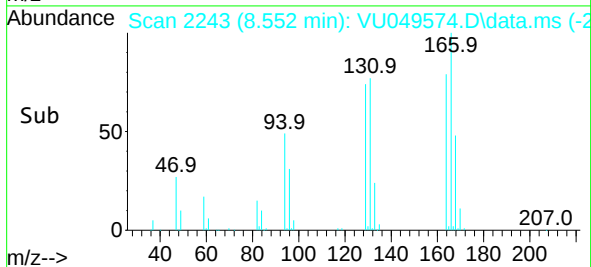
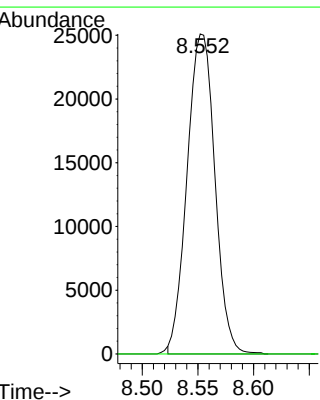
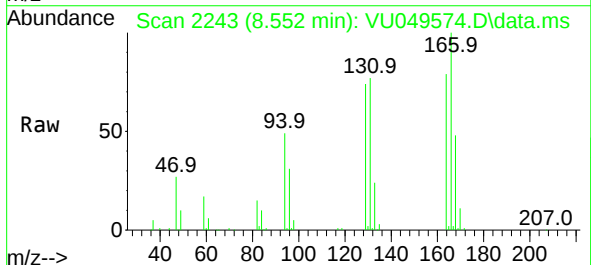
Instrument :
 MSVOA_U
 ClientSampleId :
 MW17811-20220621

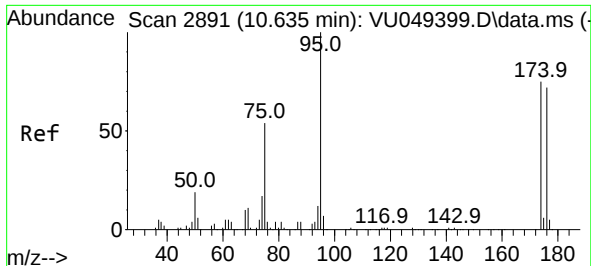
Tgt Ion: 97	Resp:	1423
Ion	Ratio	Lower Upper
97	100	
83	102.8	70.2 105.4
85	53.9	44.6 66.8
99	53.7	51.0 76.6



#60
 Dibromochloromethane
 Concen: 13.843 ug/l
 RT: 8.552 min Scan# 2243
 Delta R.T. -0.260 min
 Lab File: VU049574.D
 Acq: 30 Jun 2022 19:30

Tgt Ion: 129	Resp:	43538
Ion	Ratio	Lower Upper
129	100	
127	0.0	38.6 116.0#

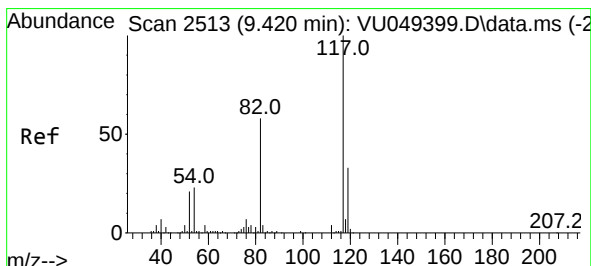
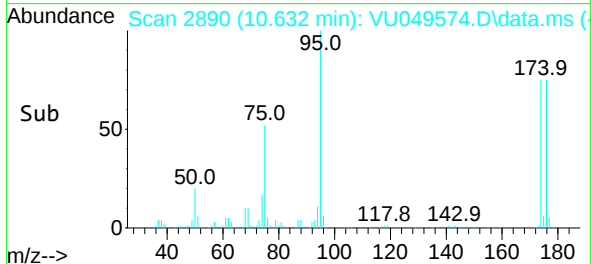
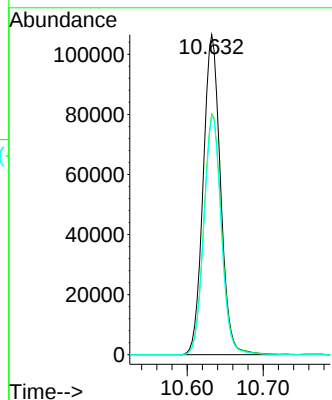
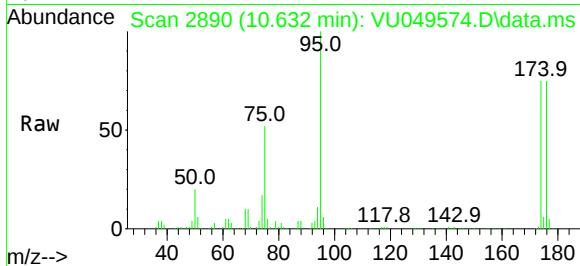




#62
4-Bromofluorobenzene
Concen: 43.984 ug/l
RT: 10.632 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU049574.D
Acq: 30 Jun 2022 19:30

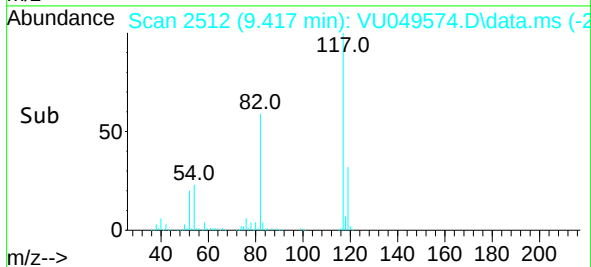
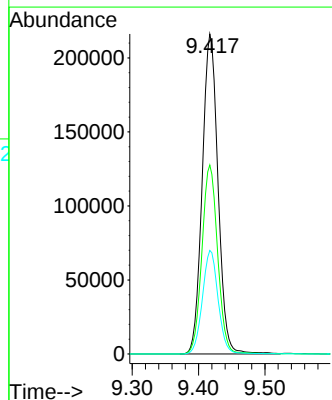
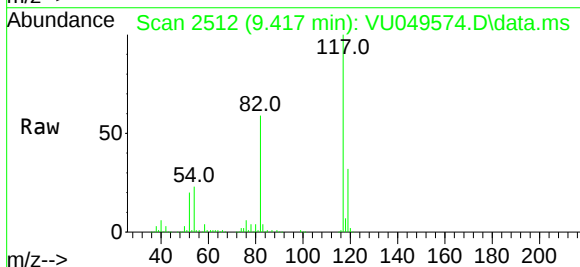
Instrument :
MSVOA_U
ClientSampleId :
MW17811-20220621

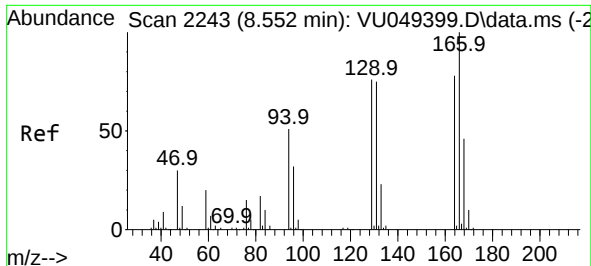
Tgt Ion: 95 Resp: 168951
Ion Ratio Lower Upper
95 100
174 77.0 0.0 182.0
176 74.8 0.0 177.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.417 min Scan# 2512
Delta R.T. -0.003 min
Lab File: VU049574.D
Acq: 30 Jun 2022 19:30

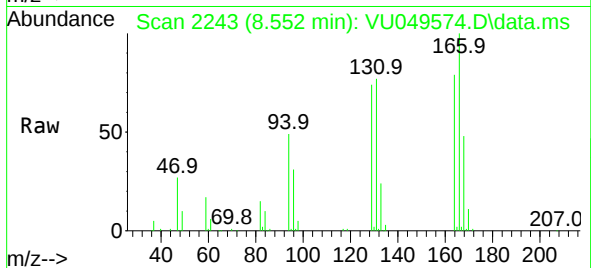
Tgt Ion: 117 Resp: 357464
Ion Ratio Lower Upper
117 100
82 59.0 41.7 62.5
119 32.3 25.7 38.5



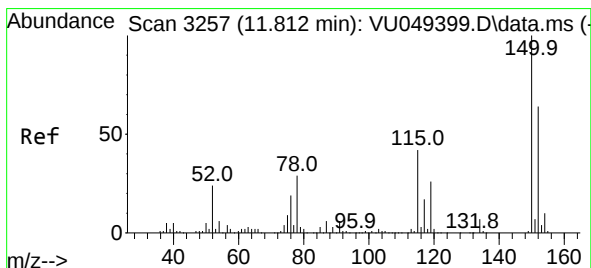
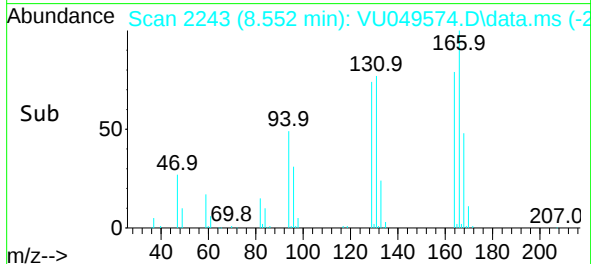
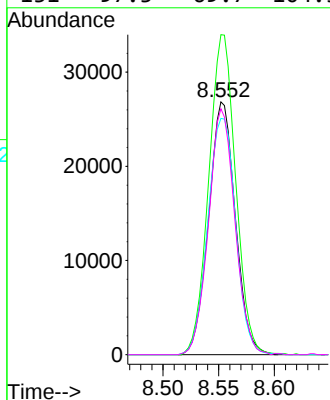


#64
Tetrachloroethene
Concen: 19.556 ug/l
RT: 8.552 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU049574.D
Acq: 30 Jun 2022 19:30

Instrument :
MSVOA_U
ClientSampleId :
MW17811-20220621

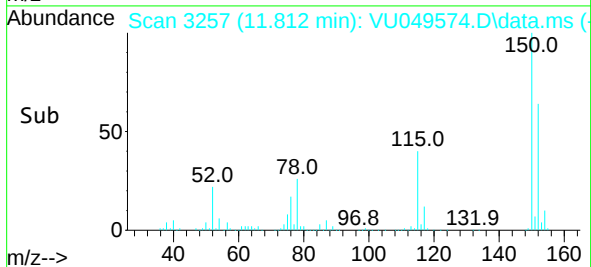
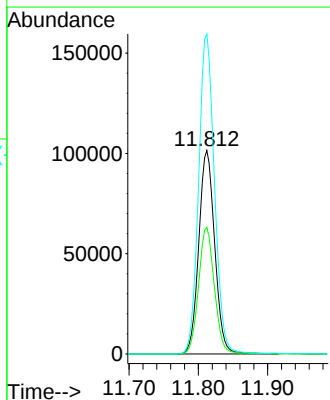
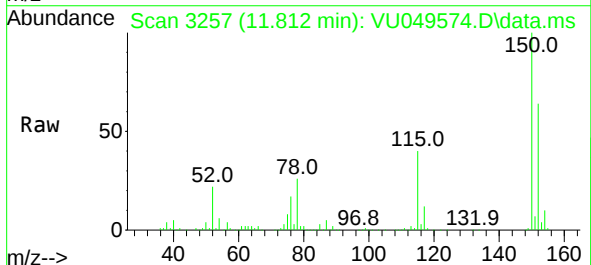


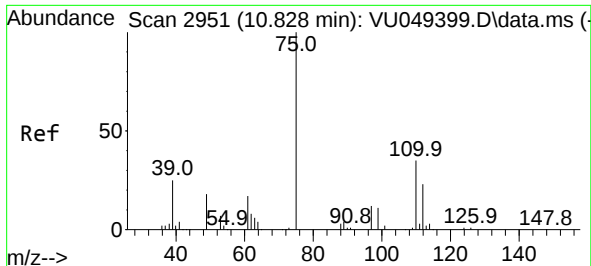
Tgt Ion:164 Resp: 44838
Ion Ratio Lower Upper
164 100
166 126.6 100.0 150.0
129 93.5 72.0 108.0
131 97.3 69.7 104.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.812 min Scan# 3257
Delta R.T. 0.000 min
Lab File: VU049574.D
Acq: 30 Jun 2022 19:30

Tgt Ion:152 Resp: 162521
Ion Ratio Lower Upper
152 100
115 61.8 37.0 110.9
150 156.5 0.0 342.2

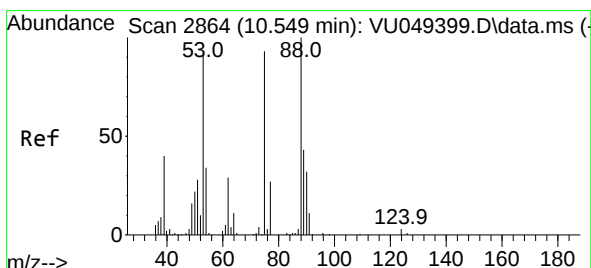
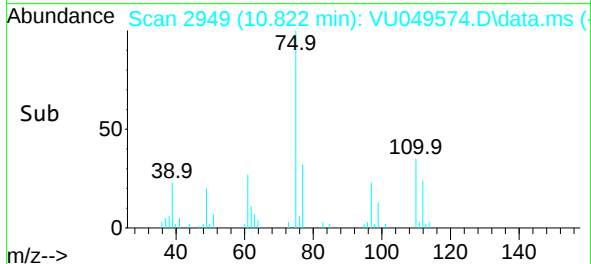
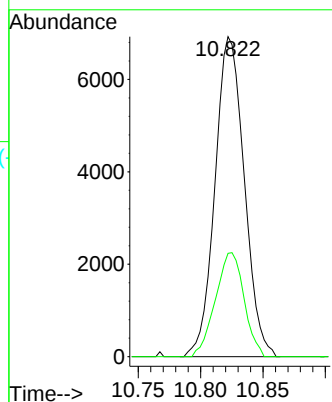
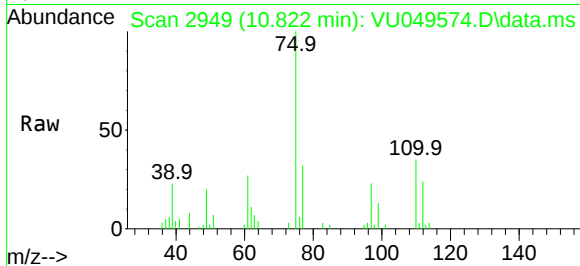




#76
1,2,3-Trichloropropane
Concen: 2.054 ug/l
RT: 10.822 min Scan# 2951
Delta R.T. -0.006 min
Lab File: VU049574.D
Acq: 30 Jun 2022 19:30

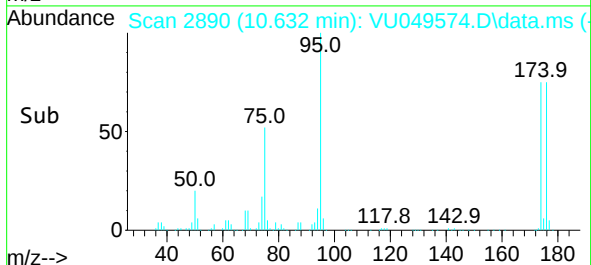
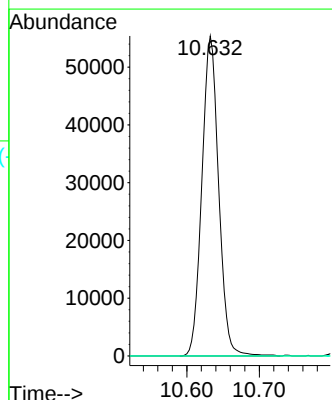
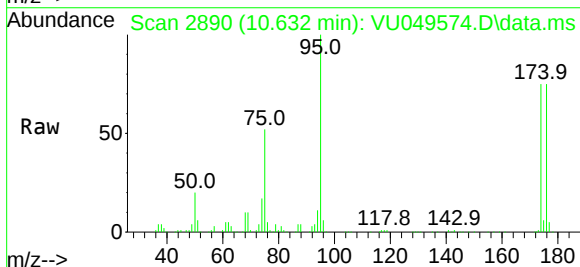
Instrument :
MSVOA_U
ClientSampleId :
MW17811-20220621

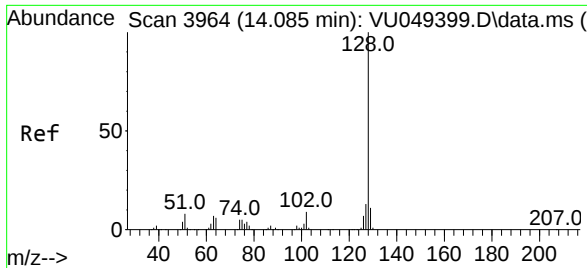
Tgt Ion: 75 Resp: 11317
Ion Ratio Lower Upper
75 100
77 31.8 15.8 47.3



#81
trans-1,4-Dichloro-2-butene
Concen: 59.697 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. 0.084 min
Lab File: VU049574.D
Acq: 30 Jun 2022 19:30

Tgt Ion: 75 Resp: 89061
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#





#95

Naphthalene

Concen: 1.798 ug/l

RT: 14.098 min Scan# 3968

Delta R.T. 0.013 min

Lab File: VU049574.D

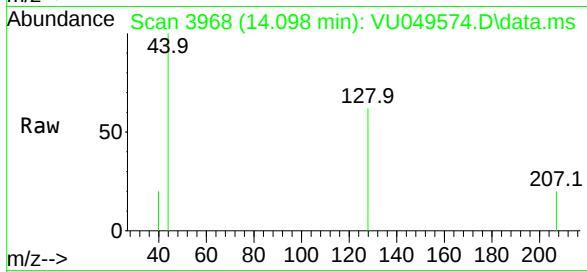
Acq: 30 Jun 2022 19:30

Instrument :

MSVOA_U

ClientSampleId :

MW17811-20220621



Tgt Ion:128 Resp: 822

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#

