

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU062822\
 Data File : VU049479.D
 Acq On : 28 Jun 2022 23:49
 Operator : SY/MD
 Sample : N3386-07DL 100X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 RE108D2-20220614DL

Quant Time: Jun 29 05:24:21 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)

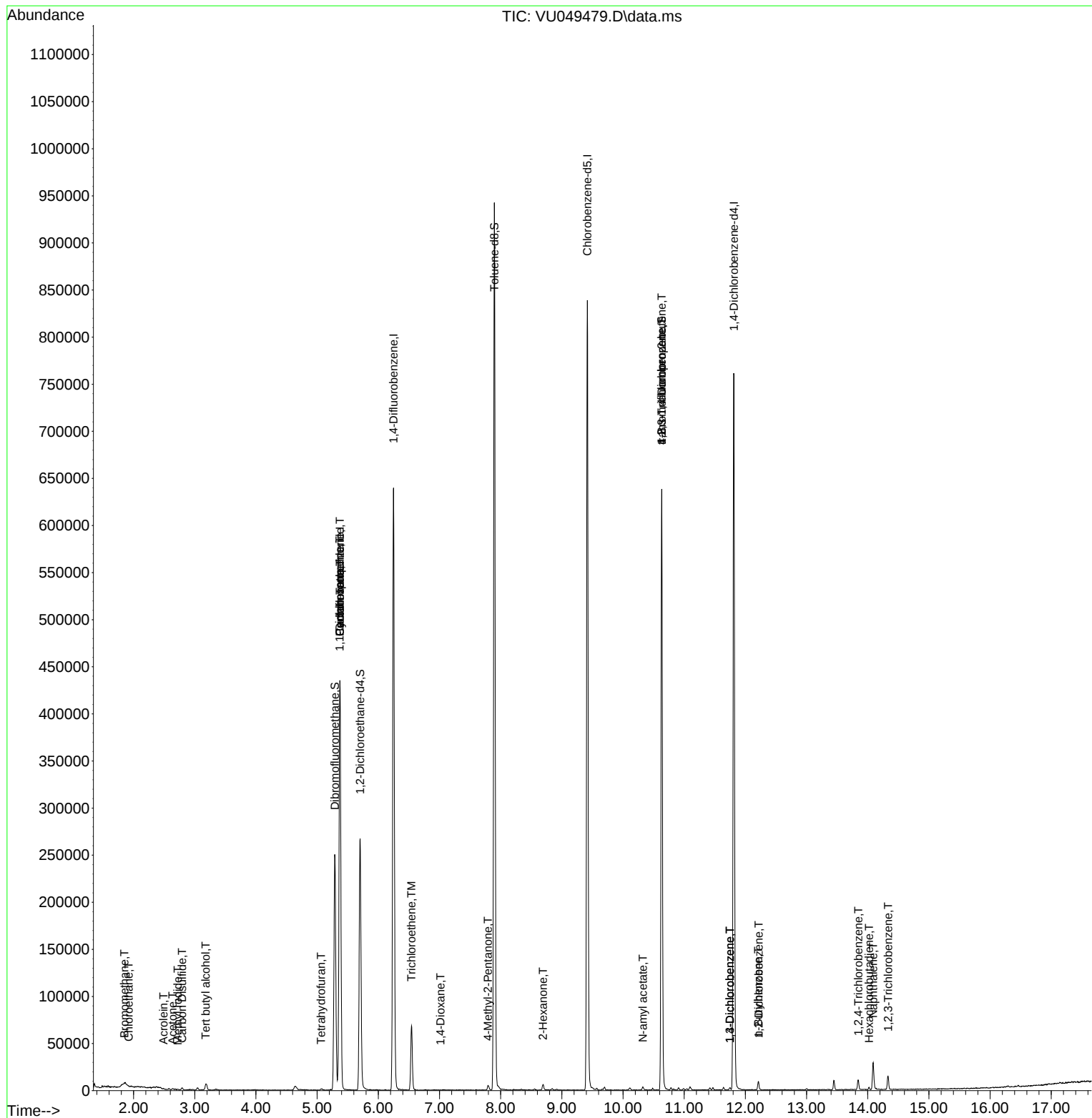
Internal Standards						
1) Pentafluorobenzene	5.372	168	303604	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.250	114	522442	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.417	117	460020	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	204191	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	201959	43.193	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	86.380%		
35) Dibromofluoromethane	5.288	113	162456	44.446	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	88.900%		
50) Toluene-d8	7.896	98	622668	47.762	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	95.520%		
62) 4-Bromofluorobenzene	10.632	95	219398	43.932	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	87.860%		
Target Compounds						
					Qvalue	
3) Chloromethane	1.520	50	1498	Below Cal	#	87
5) Bromomethane	1.851	94	524	0.343	ug/l	85
6) Chloroethane	1.919	64	190	1.996	ug/l #	44
10) Methyl Iodide	2.723	142	426	7.622	ug/l #	79
11) Tert butyl alcohol	3.179	59	4072	3.721	ug/l #	37
13) Acrolein	2.491	56	246	0.332	ug/l	91
16) Acetone	2.639	43	1641	0.696	ug/l #	74
17) Carbon Disulfide	2.793	76	2692	0.262	ug/l	96
20) Methylene Chloride	3.044	84	1140	Below Cal	#	84
29) Tetrahydrofuran	5.067	42	600	0.248	ug/l	92
31) Cyclohexane	5.372	56	6491	0.925	ug/l #	1
36) 1,1-Dichloropropene	5.369	75	24429	4.609	ug/l #	48
38) Carbon Tetrachloride	5.372	117	31137	5.602	ug/l #	15
44) Trichloroethene	6.542	130	22801	5.994	ug/l	86
49) 1,4-Dioxane	7.015	88	64	0.502	ug/l #	70
51) 4-Methyl-2-Pentanone	7.793	43	3688	0.519	ug/l	93
59) 2-Hexanone	8.690	43	4663	0.835	ug/l	92
74) N-amyl acetate	10.324	43	2173	0.282	ug/l #	91
76) 1,2,3-Trichloropropane	10.632	75	110679	15.990	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.632	75	110679	59.048	ug/l #	15
87) 1,3-Dichlorobenzene	11.745	146	1513	0.223	ug/l	93
88) 1,4-Dichlorobenzene	11.745	146	1513	0.222	ug/l	94
89) n-Butylbenzene	12.211	91	3849	0.327	ug/l	93
91) 1,2-Dichlorobenzene	12.217	146	1715	0.251	ug/l	89
93) 1,2,4-Trichlorobenzene	13.844	180	3537	2.500	ug/l	96
94) Hexachlorobutadiene	14.021	225	540	0.255	ug/l	90
95) Naphthalene	14.089	128	25682	3.287	ug/l	98
96) 1,2,3-Trichlorobenzene	14.333	180	4944	2.203	ug/l	98

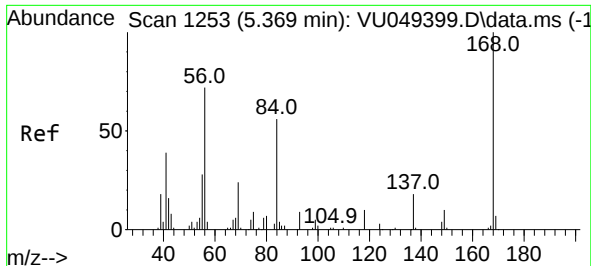
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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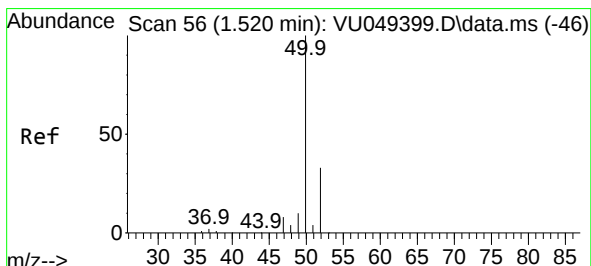
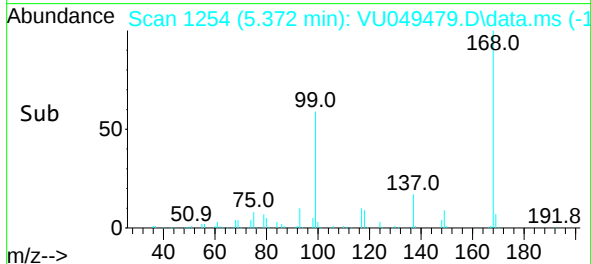
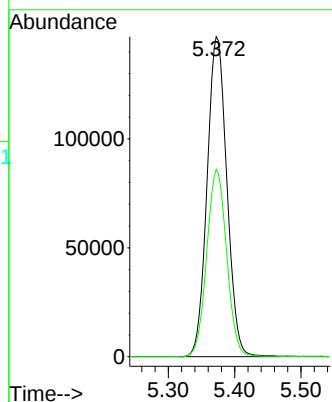
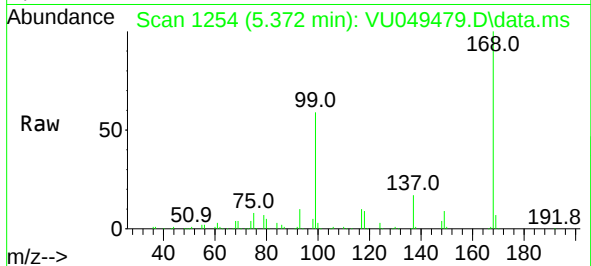




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.372 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

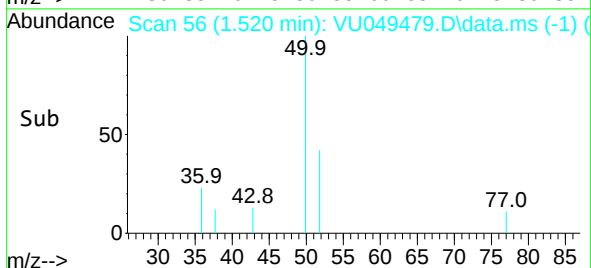
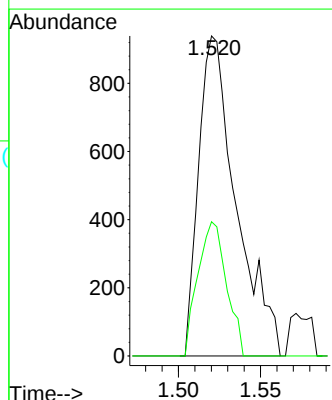
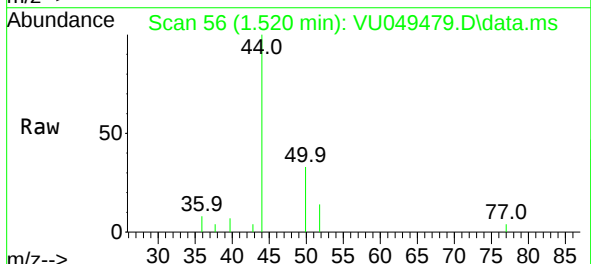
Instrument :
MSVOA_U
ClientSampleId :
RE108D2-20220614DL

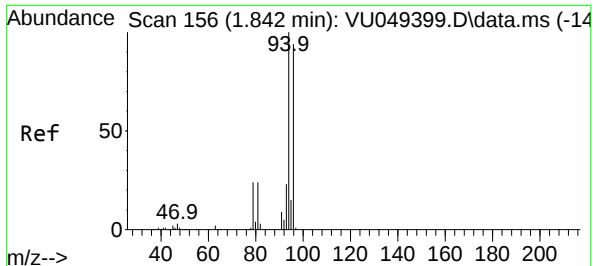
Tgt Ion:168 Resp: 303604
Ion Ratio Lower Upper
168 100
99 58.5 39.3 58.9



#3
Chloromethane
Concen: Below Cal
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

Tgt Ion: 50 Resp: 1498
Ion Ratio Lower Upper
50 100
52 42.0 27.4 41.2#

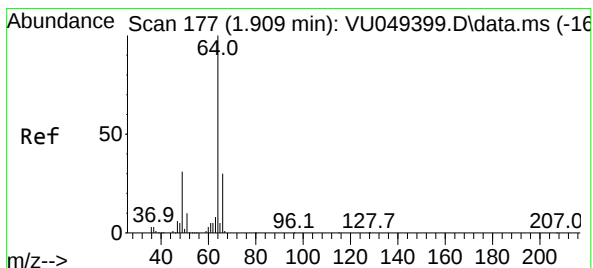
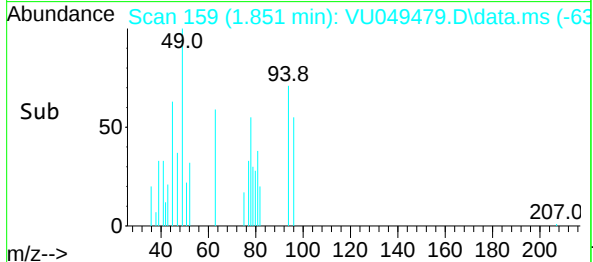
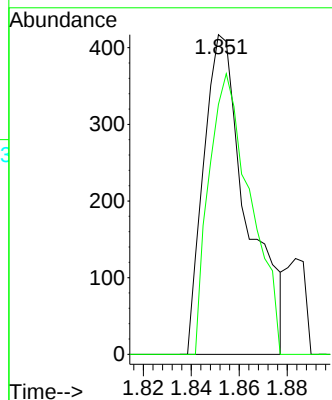
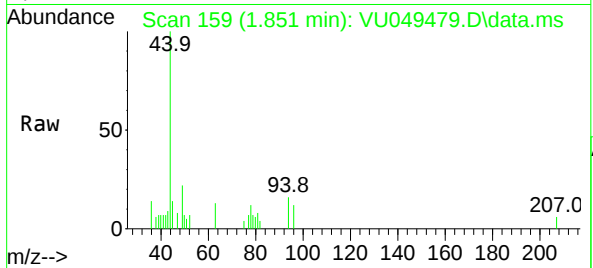




#5
Bromomethane
Concen: 0.343 ug/l
RT: 1.851 min Scan# 11
Delta R.T. 0.010 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

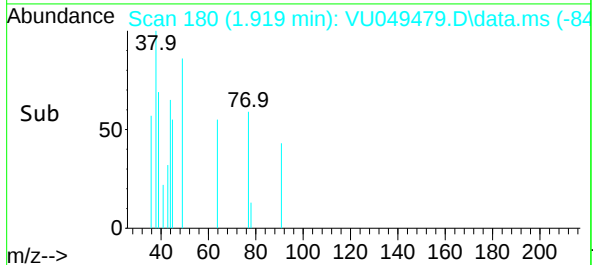
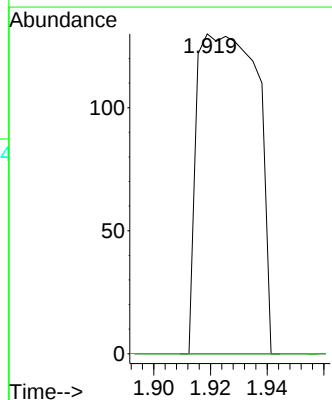
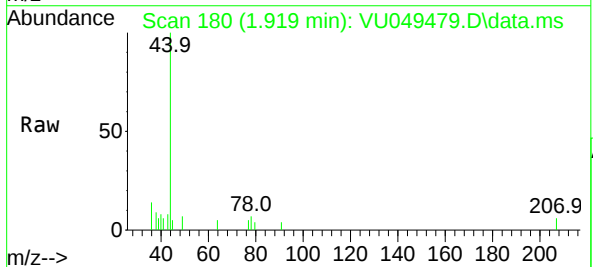
Instrument :
MSVOA_U
ClientSampleId :
RE108D2-20220614DL

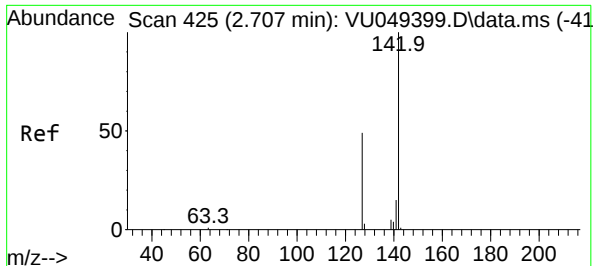
Tgt Ion: 94 Resp: 524
Ion Ratio Lower Upper
94 100
96 78.2 73.7 110.5



#6
Chloroethane
Concen: 1.996 ug/l
RT: 1.919 min Scan# 180
Delta R.T. 0.010 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

Tgt Ion: 64 Resp: 190
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#





#10

Methyl Iodide

Concen: 7.622 ug/l

RT: 2.723 min Scan# 41

Delta R.T. 0.016 min

Lab File: VU049479.D

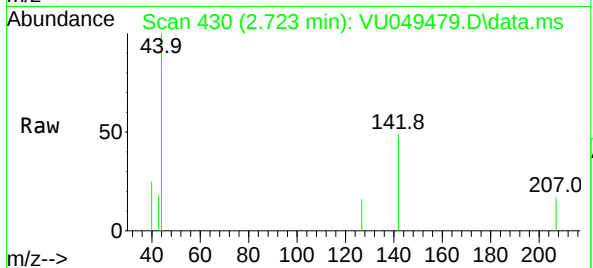
Acq: 28 Jun 2022 23:49

Instrument :

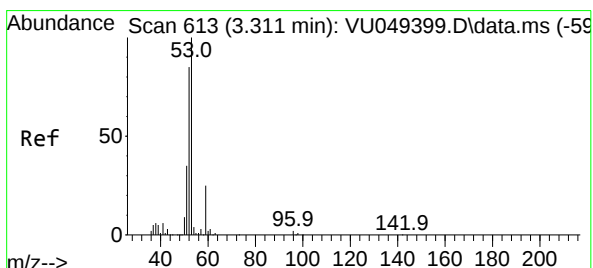
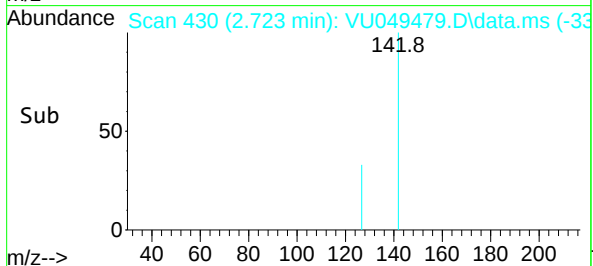
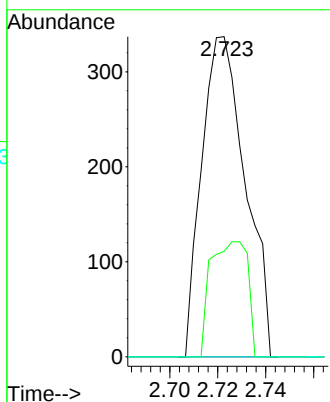
MSVOA_U

ClientSampleId :

RE108D2-20220614DL



Tgt Ion:	142	Resp:	426
Ion	Ratio	Lower	Upper
142	100		
127	30.5	32.5	48.7#
141	0.0	11.4	17.0#



#11

Tert butyl alcohol

Concen: 3.721 ug/l

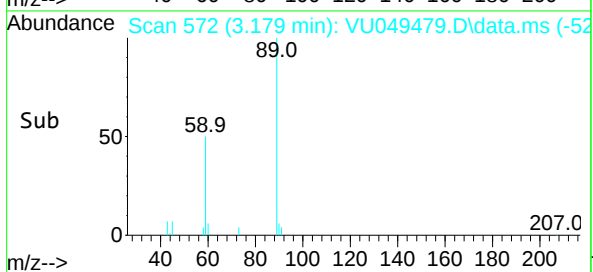
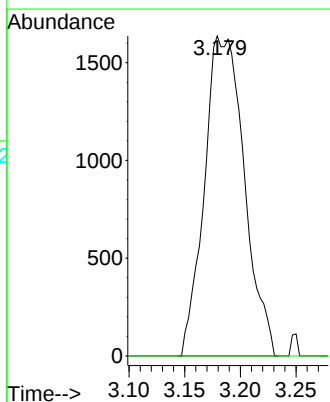
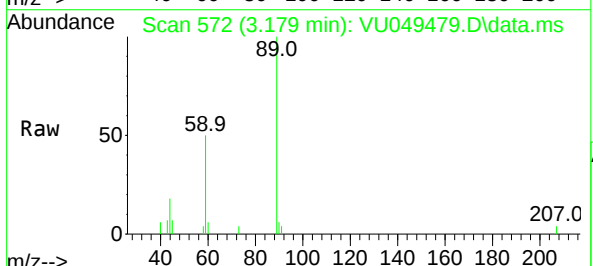
RT: 3.179 min Scan# 572

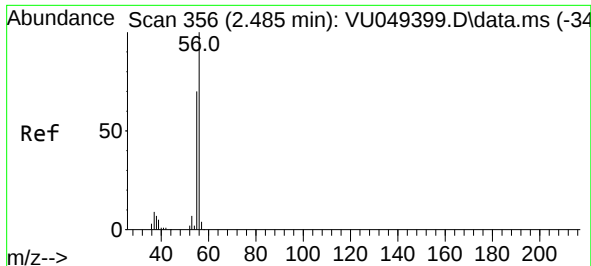
Delta R.T. -0.132 min

Lab File: VU049479.D

Acq: 28 Jun 2022 23:49

Tgt Ion:	59	Resp:	4072
Ion	Ratio	Lower	Upper
59	100		
57	0.0	30.6	45.8#





#13

Acrolein

Concen: 0.332 ug/l

RT: 2.491 min Scan# 31

Delta R.T. 0.007 min

Lab File: VU049479.D

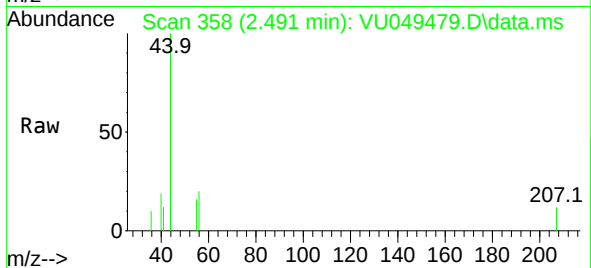
Acq: 28 Jun 2022 23:49

Instrument :

MSVOA_U

ClientSampleId :

RE108D2-20220614DL

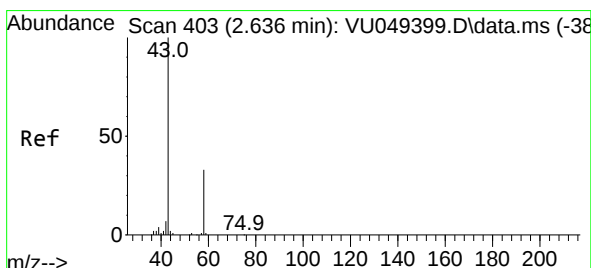
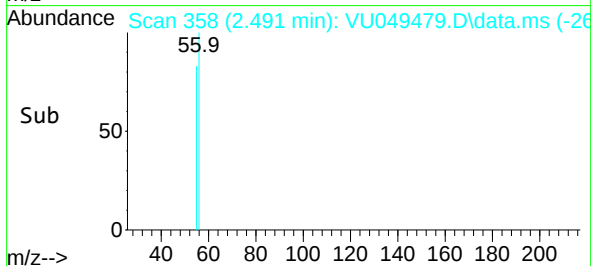
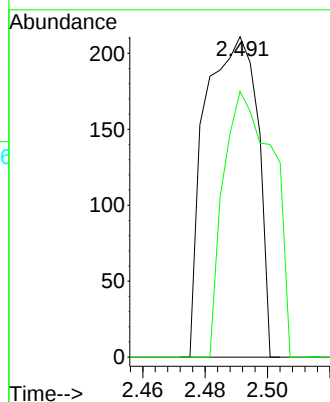


Tgt Ion: 56 Resp: 246

Ion Ratio Lower Upper

56 100

55 78.5 56.6 85.0



#16

Acetone

Concen: 0.696 ug/l

RT: 2.639 min Scan# 404

Delta R.T. 0.003 min

Lab File: VU049479.D

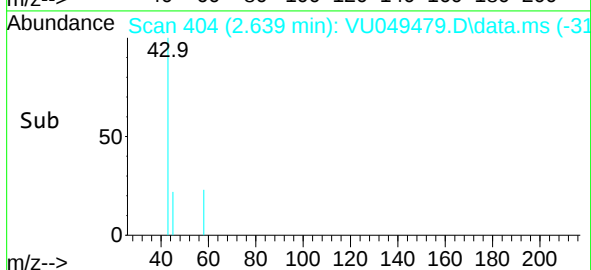
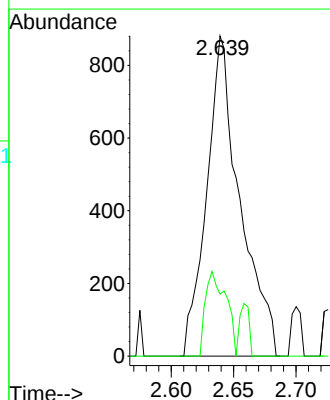
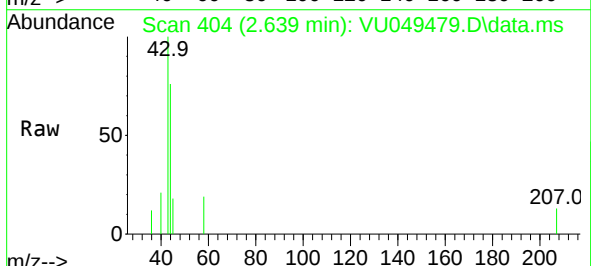
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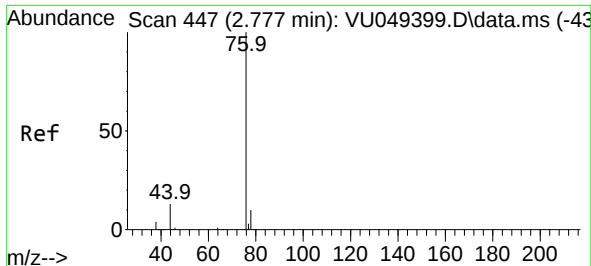
Tgt Ion: 43 Resp: 1641

Ion Ratio Lower Upper

43 100

58 19.4 27.5 41.3#

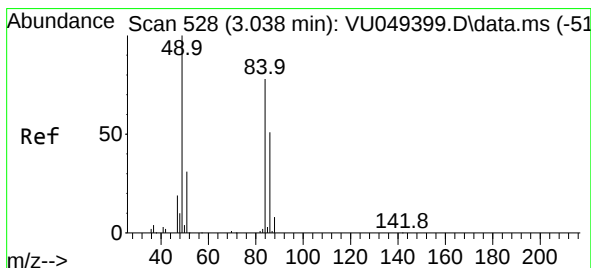
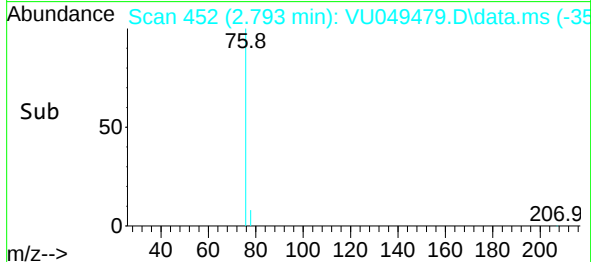
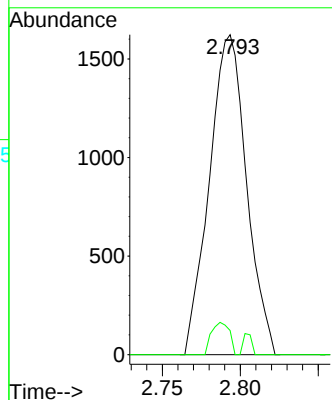
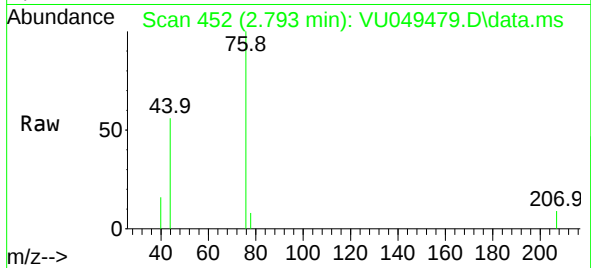




#17
Carbon Disulfide
Concen: 0.262 ug/l
RT: 2.793 min Scan# 41
Delta R.T. 0.016 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

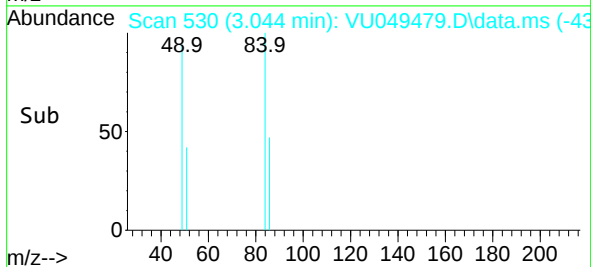
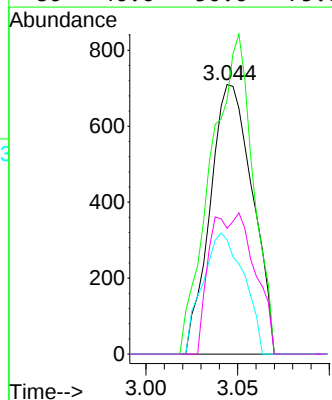
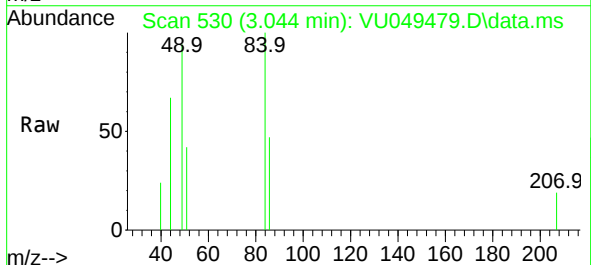
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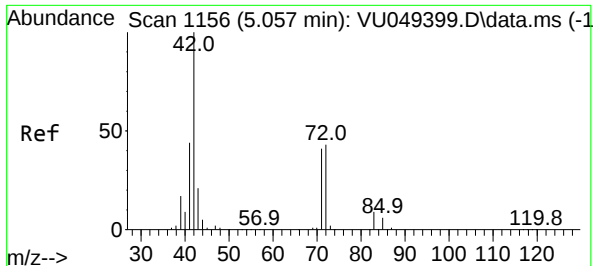
Tgt Ion: 76 Resp: 2692
Ion Ratio Lower Upper
76 100
78 7.5 7.3 10.9



#20
Methylene Chloride
Concen: Below Cal
RT: 3.044 min Scan# 530
Delta R.T. 0.007 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

Tgt Ion: 84 Resp: 1140
Ion Ratio Lower Upper
84 100
49 94.2 86.6 129.8
51 42.4 26.6 40.0#
86 46.6 50.6 75.8#





#29

Tetrahydrofuran

Concen: 0.248 ug/l

RT: 5.067 min Scan# 1156

Delta R.T. 0.010 min

Lab File: VU049479.D

Acq: 28 Jun 2022 23:49

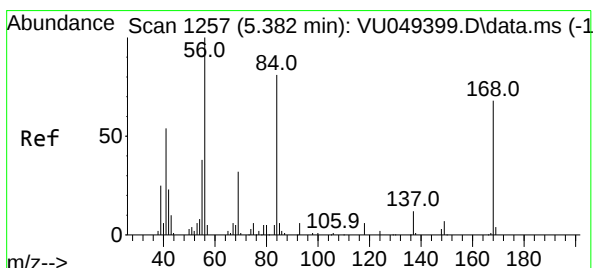
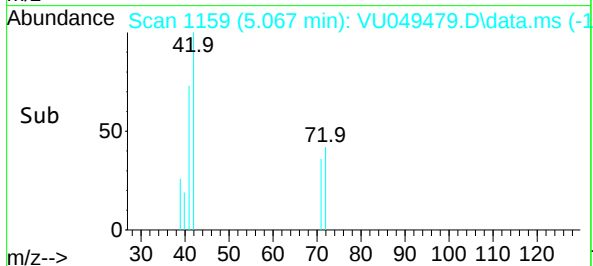
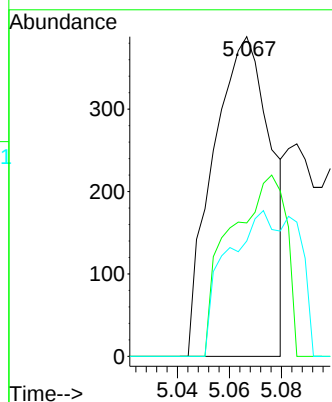
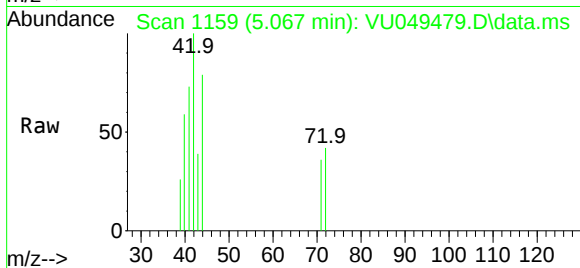
Instrument :

MSVOA_U

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Tgt Ion: 42	Resp: 600
Ion Ratio	Lower Upper
42	100
72	55.0 42.6 63.8
71	41.0 40.3 60.5



#31

Cyclohexane

Concen: 0.925 ug/l

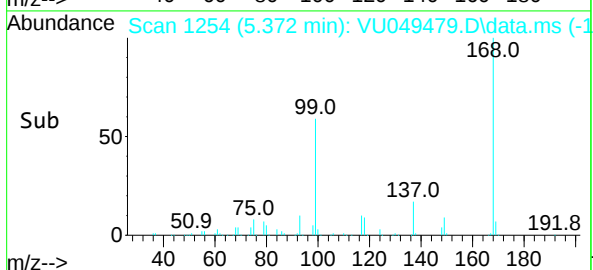
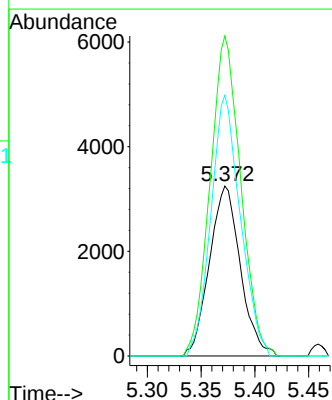
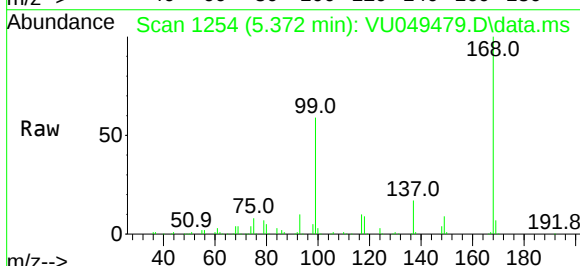
RT: 5.372 min Scan# 1254

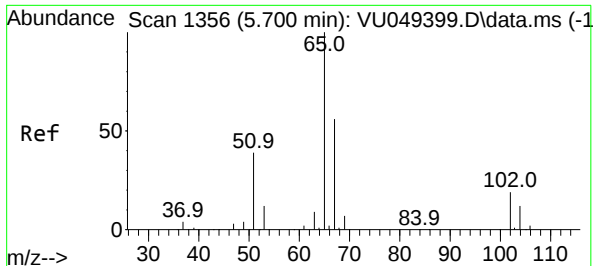
Delta R.T. -0.010 min

Lab File: VU049479.D

Acq: 28 Jun 2022 23:49

Tgt Ion: 56	Resp: 6491
Ion Ratio	Lower Upper
56	100
69	188.4 27.8 41.8#
84	153.4 74.2 111.4#





#33

1,2-Dichloroethane-d4

Concen: 43.193 ug/l

RT: 5.703 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU049479.D

Acq: 28 Jun 2022 23:49

Instrument :

MSVOA_U

ClientSampleId :

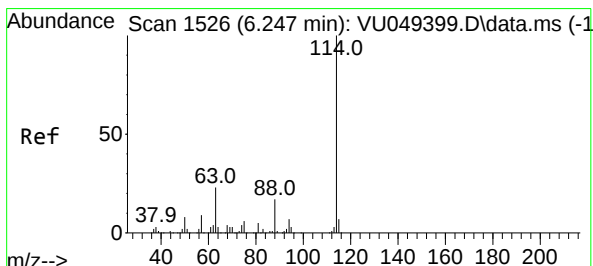
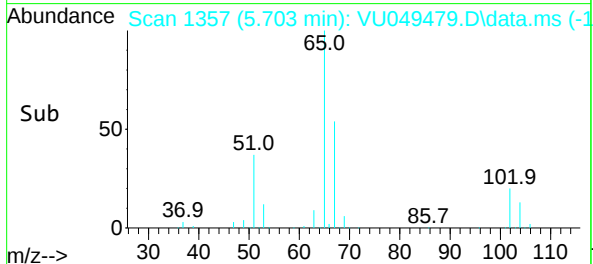
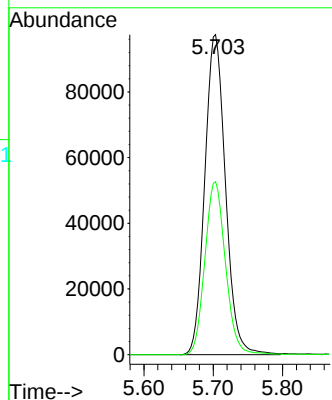
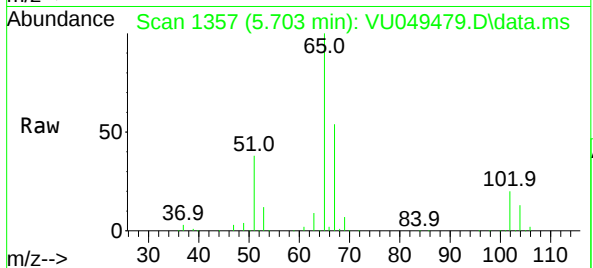
RE108D2-20220614DL

Tgt Ion: 65 Resp: 201959

Ion Ratio Lower Upper

65 100

67 53.8 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: VU049479.D

Acq: 28 Jun 2022 23:49

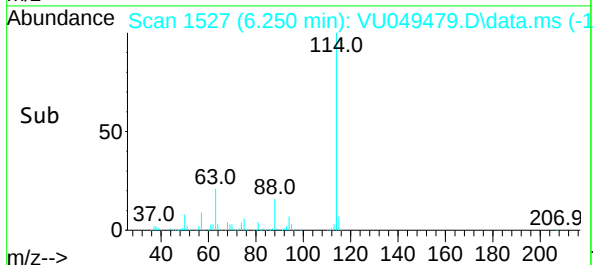
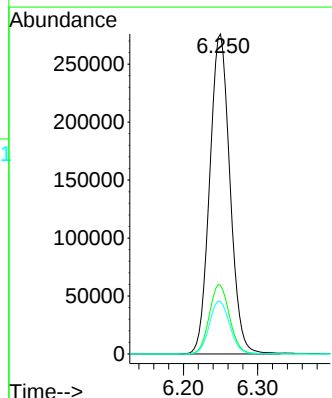
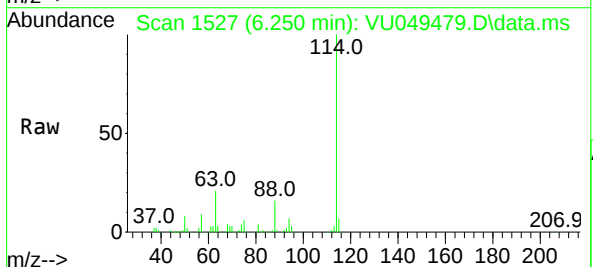
Tgt Ion: 114 Resp: 522442

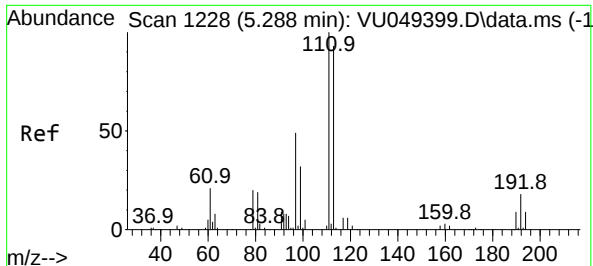
Ion Ratio Lower Upper

114 100

63 21.4 0.0 37.8

88 16.4 0.0 29.2

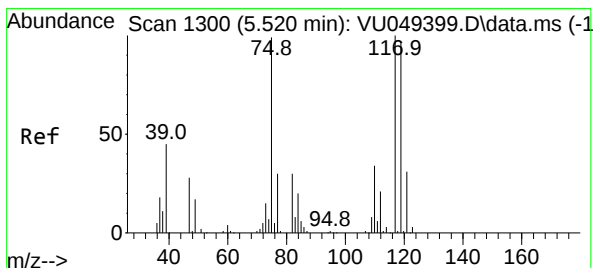
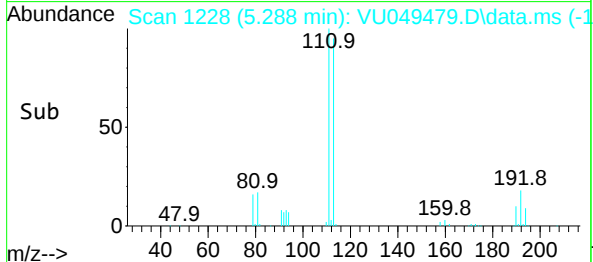
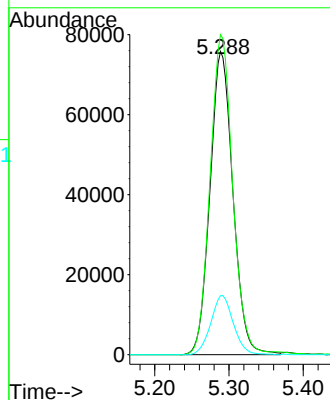
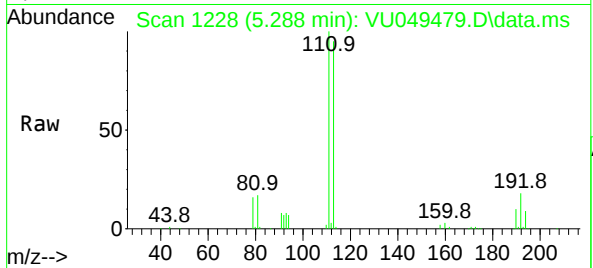




#35
Dibromofluoromethane
Concen: 44.446 ug/l
RT: 5.288 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

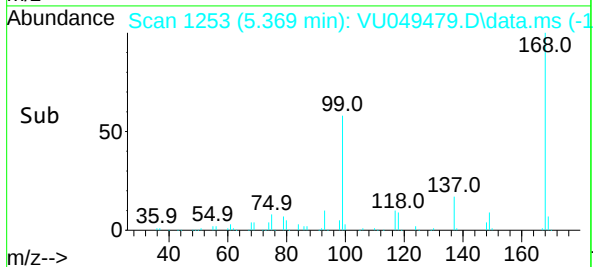
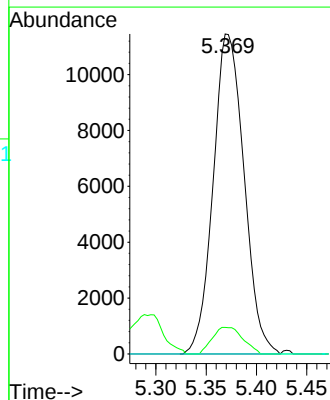
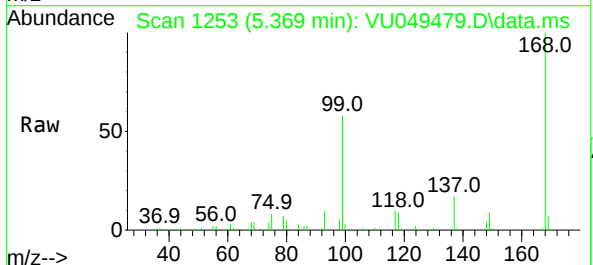
Instrument :
MSVOA_U
ClientSampleId :
RE108D2-20220614DL

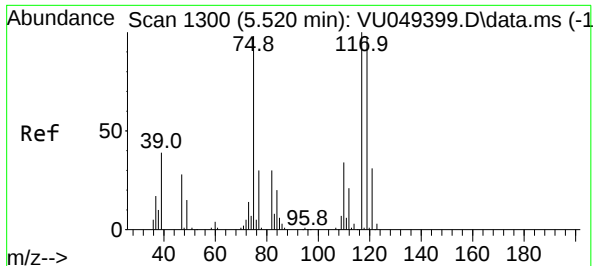
Tgt Ion:113 Resp: 162456
Ion Ratio Lower Upper
113 100
111 104.1 82.1 123.1
192 19.2 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.609 ug/l
RT: 5.369 min Scan# 1253
Delta R.T. -0.151 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

Tgt Ion: 75 Resp: 24429
Ion Ratio Lower Upper
75 100
110 8.2 18.4 55.2#
77 0.0 25.1 37.7#

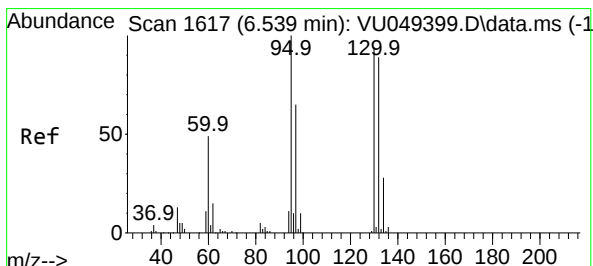
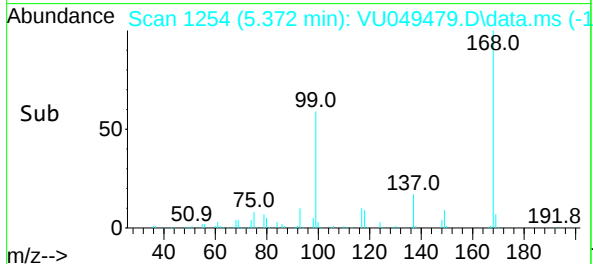
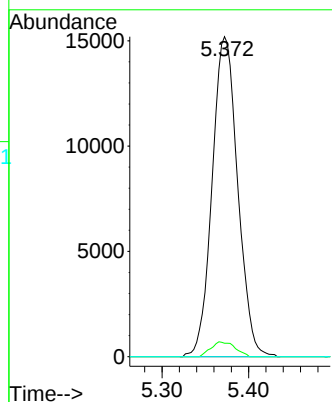
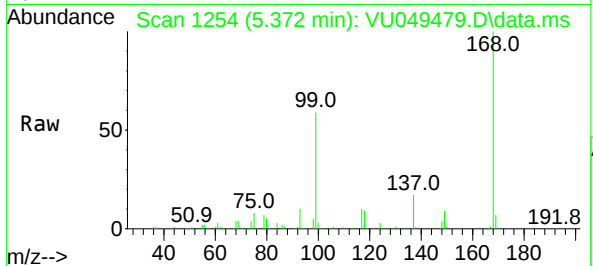




#38
Carbon Tetrachloride
Concen: 5.602 ug/l
RT: 5.372 min Scan# 11
Delta R.T. -0.148 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

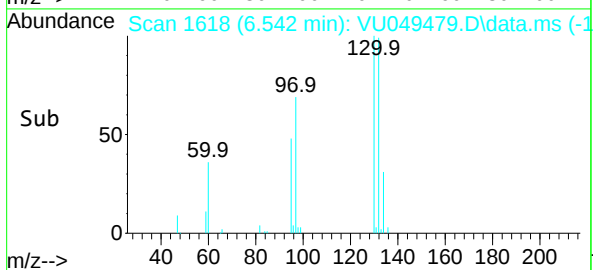
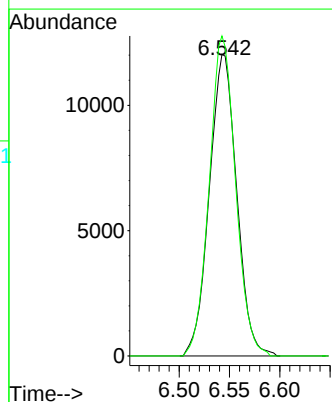
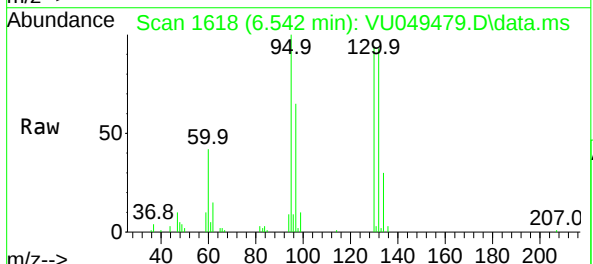
Instrument :
MSVOA_U
ClientSampleId :
RE108D2-20220614DL

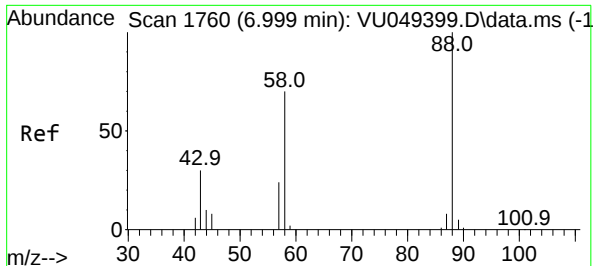
Tgt Ion:117 Resp: 31137
Ion Ratio Lower Upper
117 100
119 4.2 76.8 115.2#
121 0.0 24.7 37.1#



#44
Trichloroethene
Concen: 5.994 ug/l
RT: 6.542 min Scan# 1618
Delta R.T. 0.003 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

Tgt Ion:130 Resp: 22801
Ion Ratio Lower Upper
130 100
95 106.1 0.0 184.6





#49

1,4-Dioxane

Concen: 0.502 ug/l

RT: 7.015 min Scan# 1

Delta R.T. 0.016 min

Lab File: VU049479.D

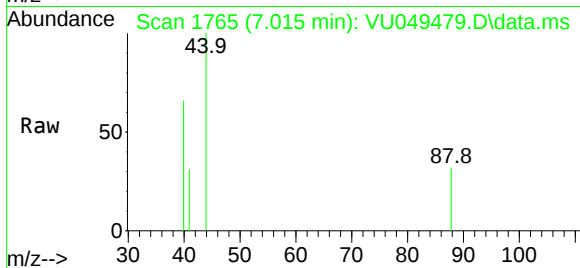
Acq: 28 Jun 2022 23:49

Instrument :

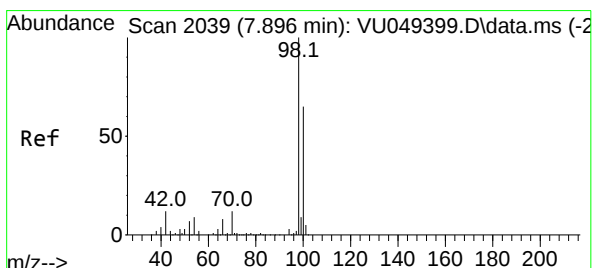
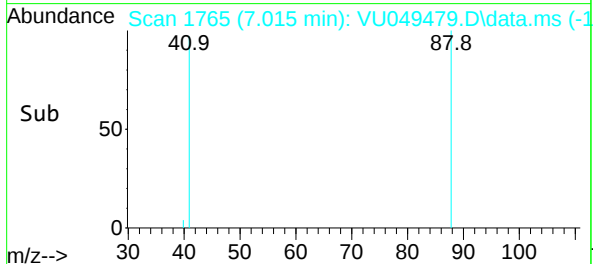
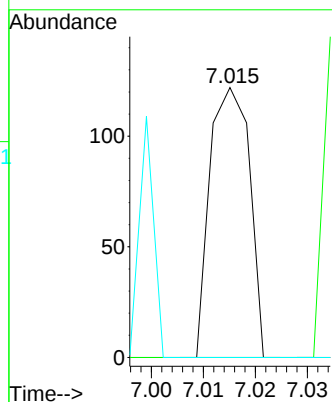
MSVOA_U

ClientSampleId :

RE108D2-20220614DL



Tgt Ion: 88	Resp: 64
Ion Ratio	Lower Upper
88 100	
43 0.0 0.0	0.0
58 32.8 15.4	23.0#



#50

Toluene-d8

Concen: 47.762 ug/l

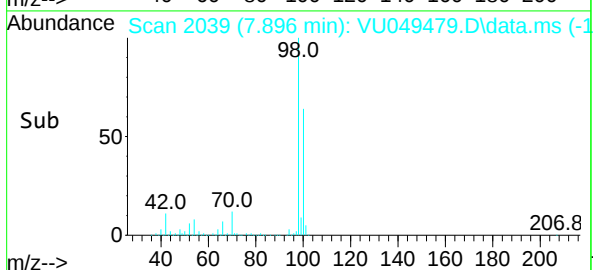
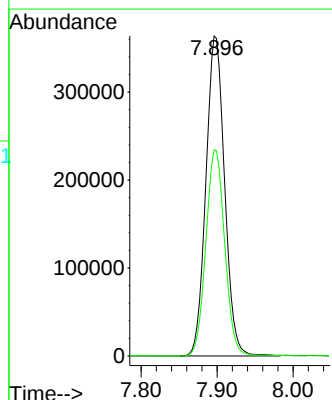
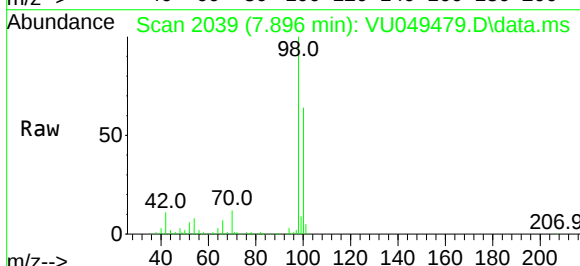
RT: 7.896 min Scan# 2039

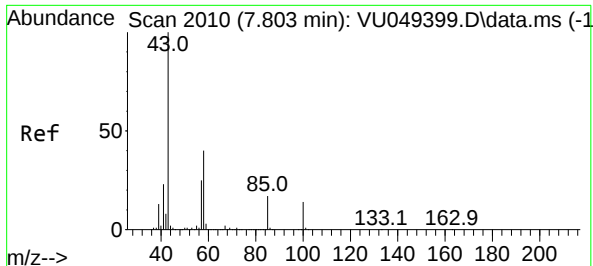
Delta R.T. 0.000 min

Lab File: VU049479.D

Acq: 28 Jun 2022 23:49

Tgt Ion: 98	Resp: 622668
Ion Ratio	Lower Upper
98 100	
100 65.0 51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 0.519 ug/l

RT: 7.793 min Scan# 2010

Delta R.T. -0.010 min

Lab File: VU049479.D

Acq: 28 Jun 2022 23:49

Instrument :

MSVOA_U

ClientSampleId :

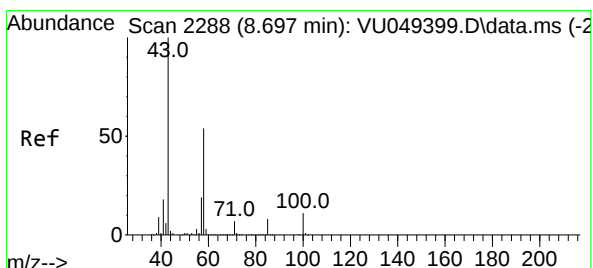
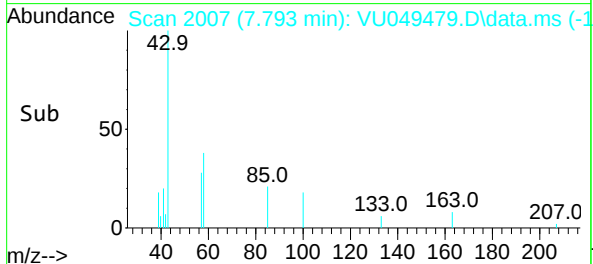
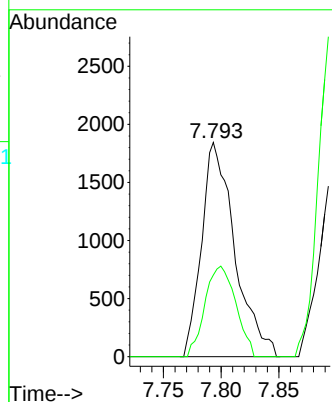
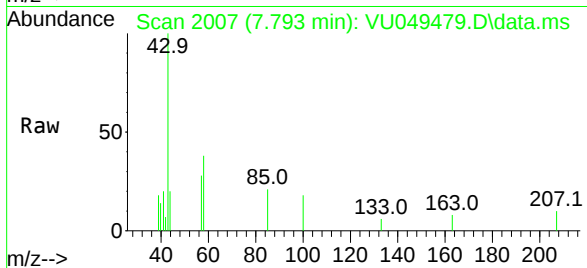
RE108D2-20220614DL

Tgt Ion: 43 Resp: 3688

Ion Ratio Lower Upper

43 100

58 39.2 34.7 52.1



#59

2-Hexanone

Concen: 0.835 ug/l

RT: 8.690 min Scan# 2286

Delta R.T. -0.006 min

Lab File: VU049479.D

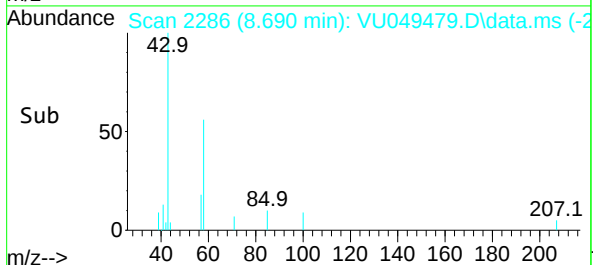
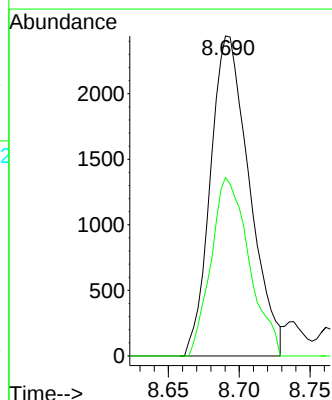
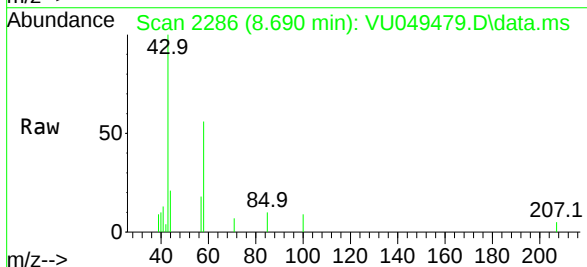
Acq: 28 Jun 2022 23:49

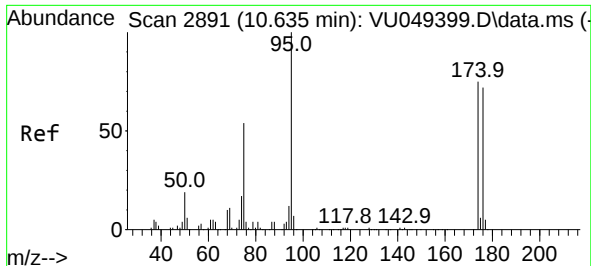
Tgt Ion: 43 Resp: 4663

Ion Ratio Lower Upper

43 100

58 54.3 30.3 90.8

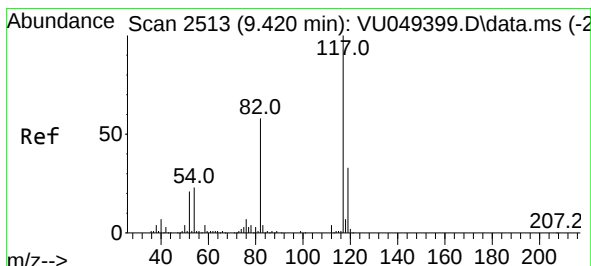
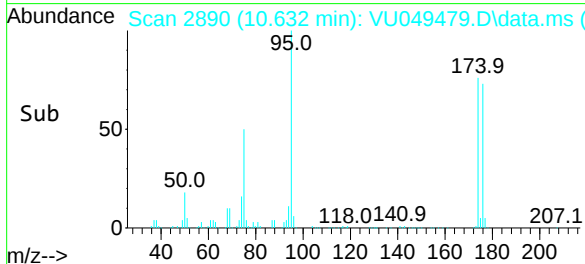
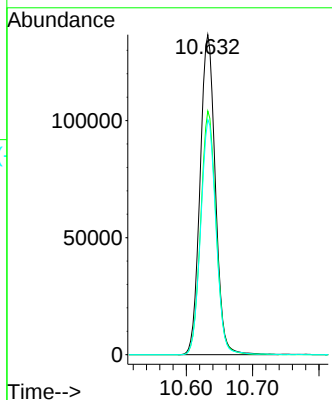
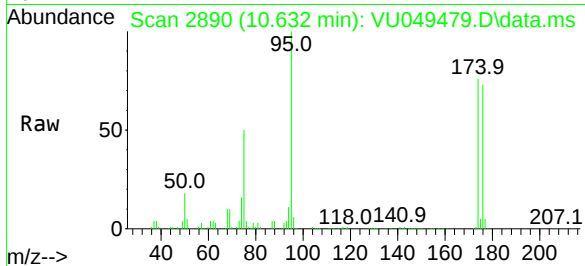




#62
4-Bromofluorobenzene
Concen: 43.932 ug/l
RT: 10.632 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

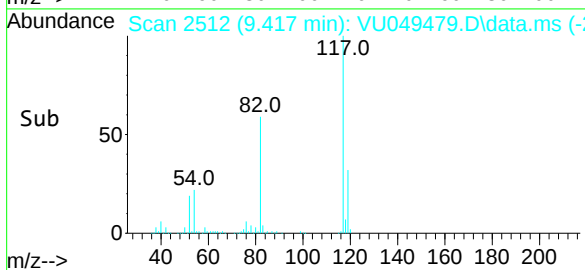
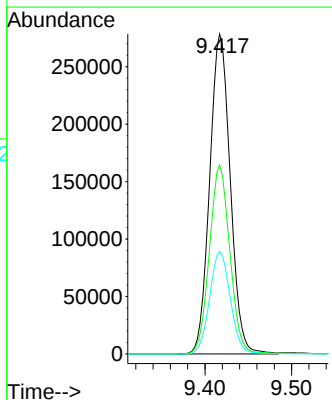
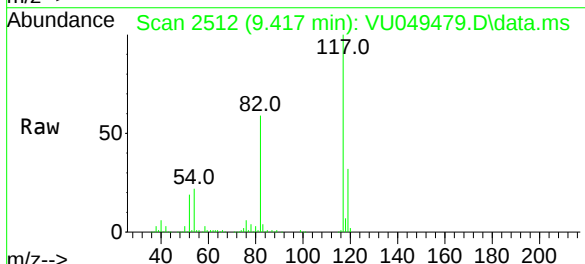
Instrument :
MSVOA_U
ClientSampleId :
RE108D2-20220614DL

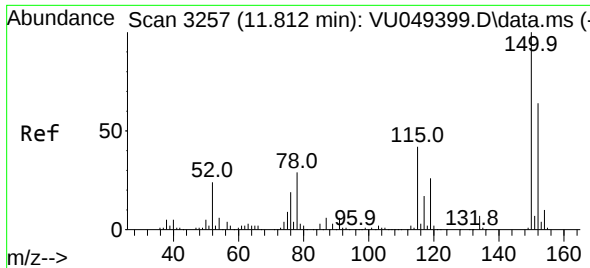
Tgt Ion: 95 Resp: 219398
Ion Ratio Lower Upper
95 100
174 76.2 0.0 182.0
176 73.6 0.0 177.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.417 min Scan# 2512
Delta R.T. -0.003 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

Tgt Ion: 117 Resp: 460020
Ion Ratio Lower Upper
117 100
82 59.1 41.7 62.5
119 32.0 25.7 38.5

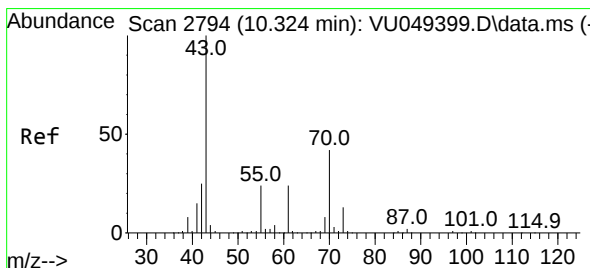
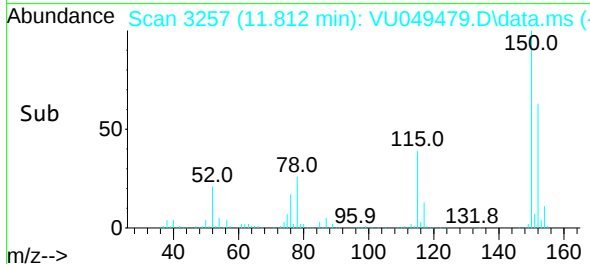
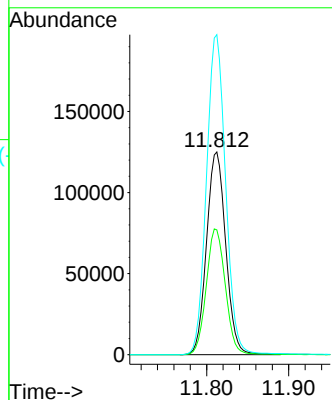
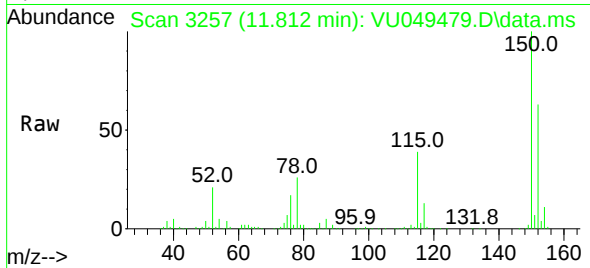




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.812 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VU049479.D
 Acq: 28 Jun 2022 23:49

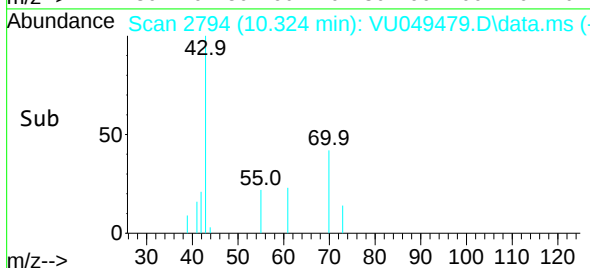
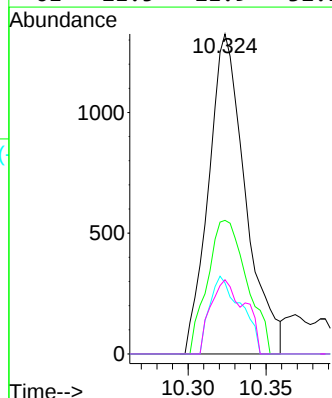
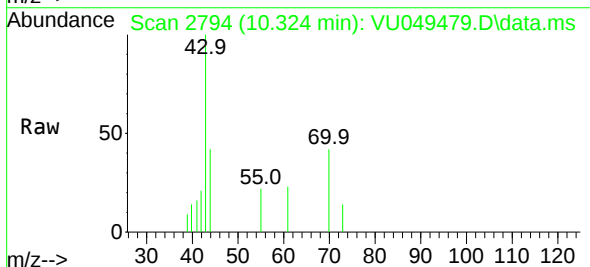
Instrument :
 MSVOA_U
 ClientSampleId :
 RE108D2-20220614DL

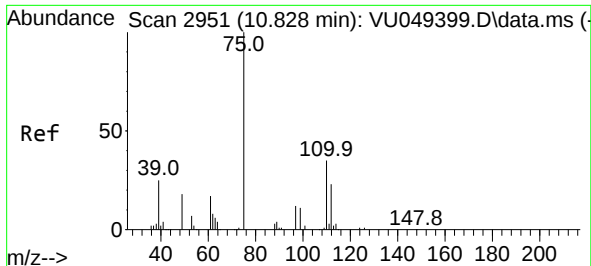
Tgt Ion:152 Resp: 204191
 Ion Ratio Lower Upper
 152 100
 115 61.7 37.0 110.9
 150 157.9 0.0 342.2



#74
 N-ethyl acetate
 Concen: 0.282 ug/l
 RT: 10.324 min Scan# 2794
 Delta R.T. 0.000 min
 Lab File: VU049479.D
 Acq: 28 Jun 2022 23:49

Tgt Ion: 43 Resp: 2173
 Ion Ratio Lower Upper
 43 100
 70 44.5 38.7 58.1
 55 20.8 21.8 32.8#
 61 21.5 21.9 32.9#

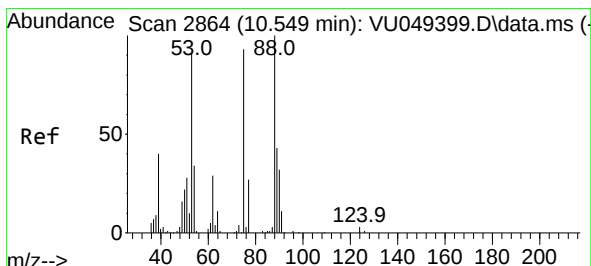
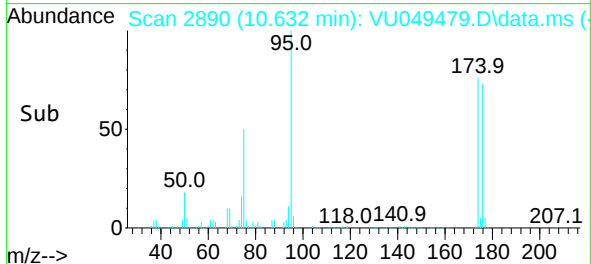
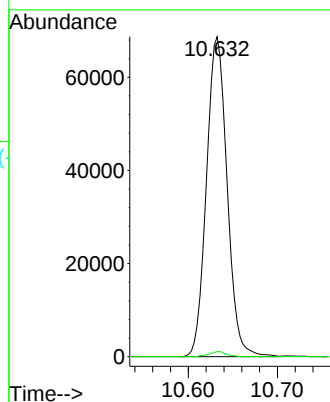
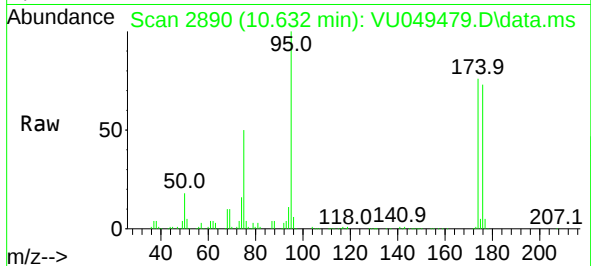




#76
1,2,3-Trichloropropane
Concen: 15.990 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. -0.196 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

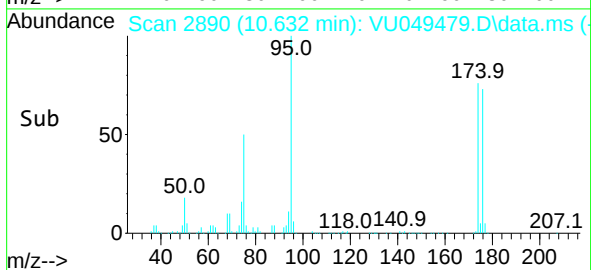
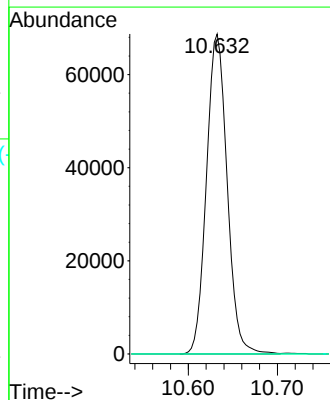
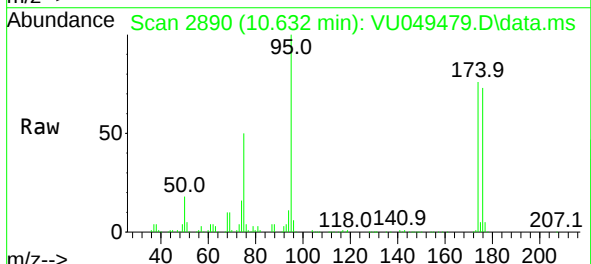
Instrument :
MSVOA_U
ClientSampleId :
RE108D2-20220614DL

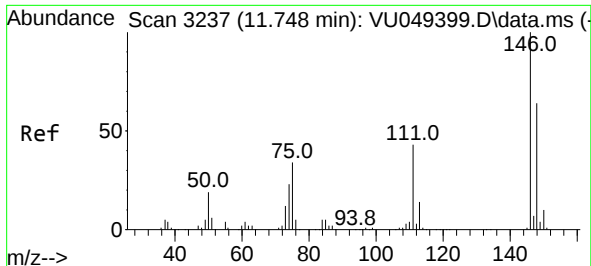
Tgt Ion: 75 Resp: 110679
Ion Ratio Lower Upper
75 100
77 1.3 15.8 47.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.048 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. 0.084 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

Tgt Ion: 75 Resp: 110679
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#





#87

1,3-Dichlorobenzene

Concen: 0.223 ug/l

RT: 11.745 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU049479.D

Acq: 28 Jun 2022 23:49

Instrument :

MSVOA_U

ClientSampleId :

RE108D2-20220614DL

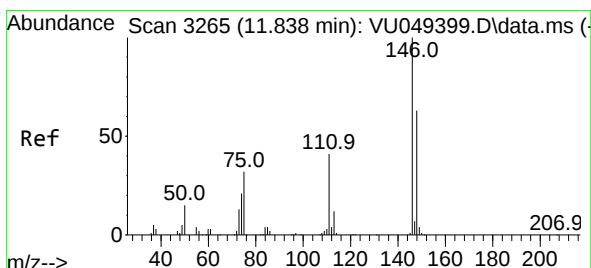
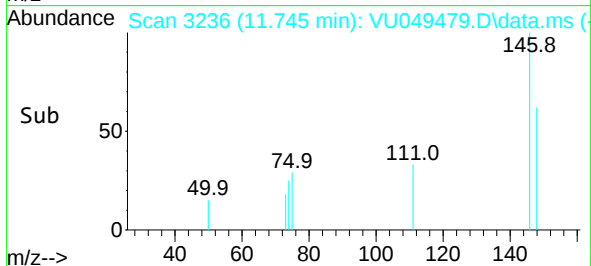
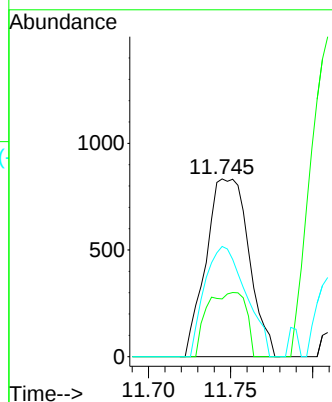
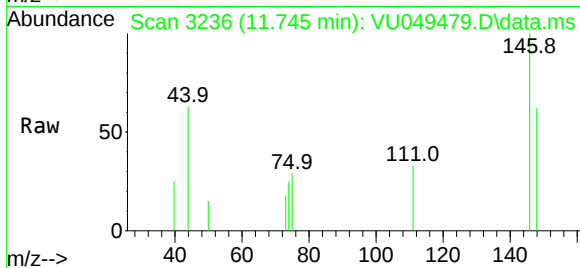
Tgt Ion:146 Resp: 1513

Ion Ratio Lower Upper

146 100

111 32.7 18.9 56.5

148 59.6 31.9 95.9



#88

1,4-Dichlorobenzene

Concen: 0.222 ug/l

RT: 11.745 min Scan# 3236

Delta R.T. -0.093 min

Lab File: VU049479.D

Acq: 28 Jun 2022 23:49

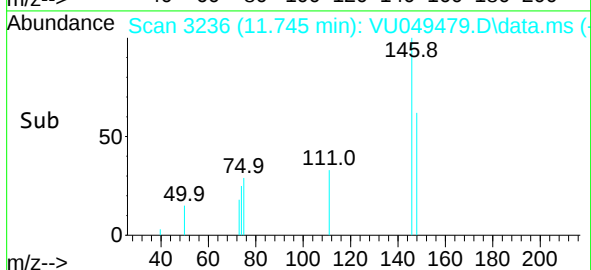
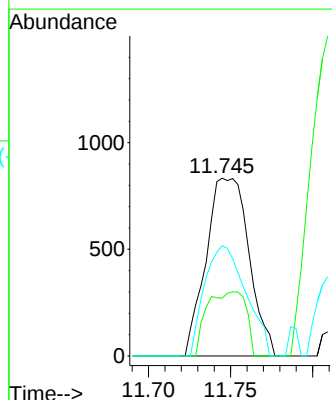
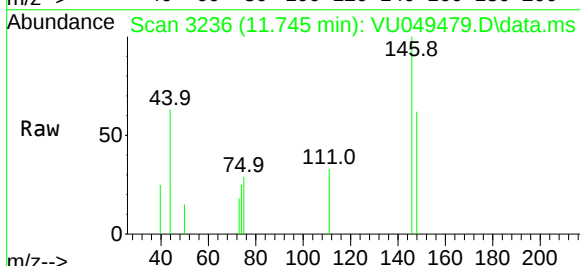
Tgt Ion:146 Resp: 1513

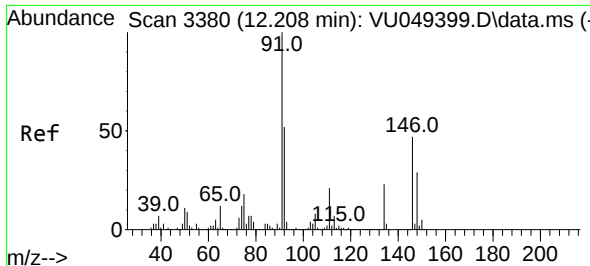
Ion Ratio Lower Upper

146 100

111 32.7 18.5 55.5

148 59.6 31.9 95.7





#89

n-Butylbenzene

Concen: 0.327 ug/l

RT: 12.211 min Scan# 3381

Delta R.T. 0.003 min

Lab File: VU049479.D

Acq: 28 Jun 2022 23:49

Instrument :

MSVOA_U

ClientSampleId :

RE108D2-20220614DL

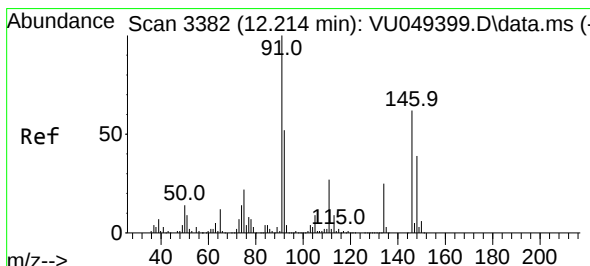
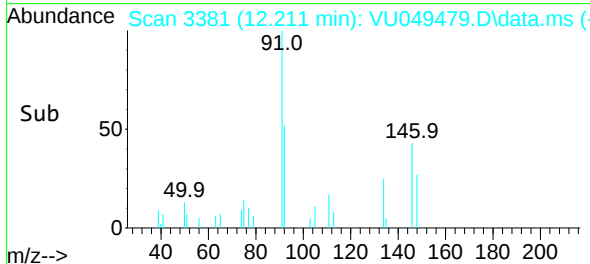
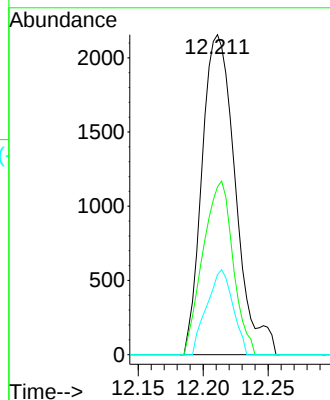
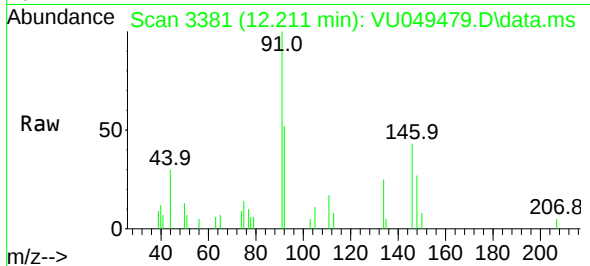
Tgt Ion: 91 Resp: 3849

Ion Ratio Lower Upper

91 100

92 48.8 26.2 78.6

134 20.7 13.5 40.4



#91

1,2-Dichlorobenzene

Concen: 0.251 ug/l

RT: 12.217 min Scan# 3383

Delta R.T. 0.003 min

Lab File: VU049479.D

Acq: 28 Jun 2022 23:49

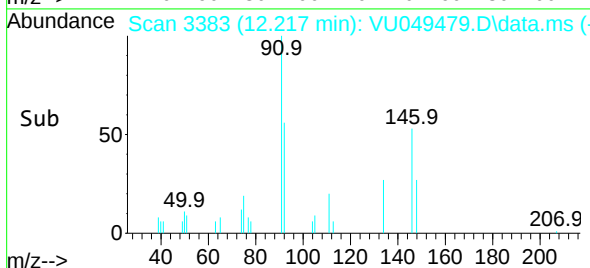
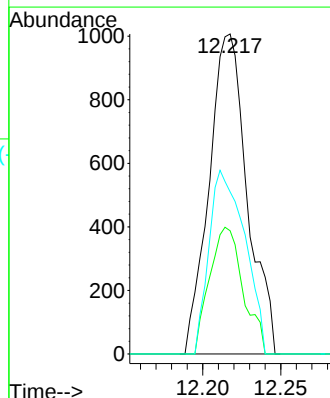
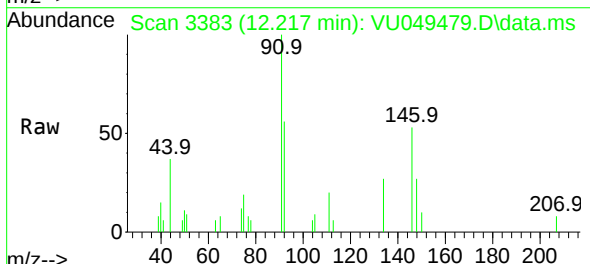
Tgt Ion: 146 Resp: 1715

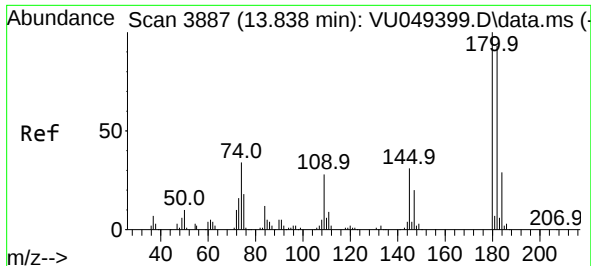
Ion Ratio Lower Upper

146 100

111 34.9 19.9 59.6

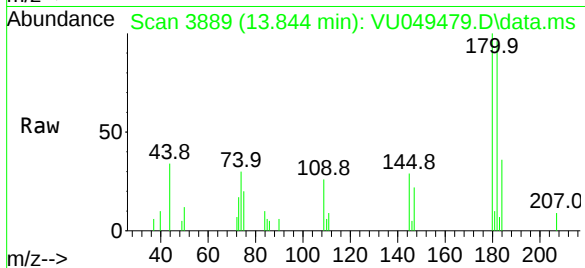
148 53.8 32.1 96.5



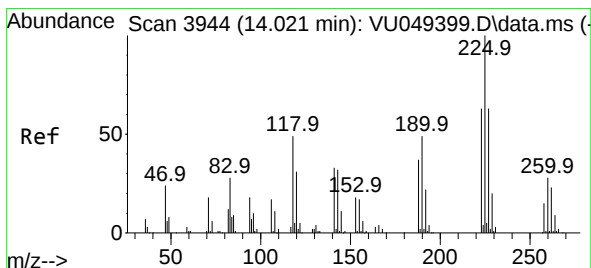
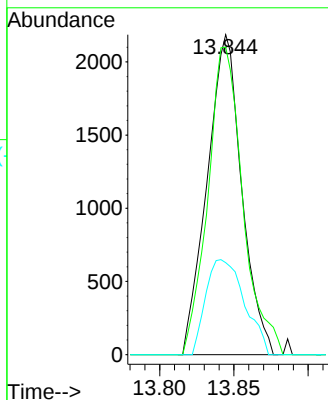
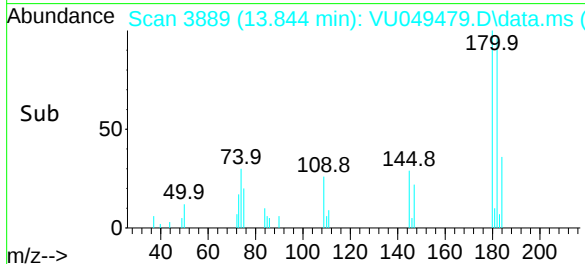


#93
1,2,4-Trichlorobenzene
Concen: 2.500 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. 0.007 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

Instrument :
MSVOA_U
ClientSampleId :
RE108D2-20220614DL

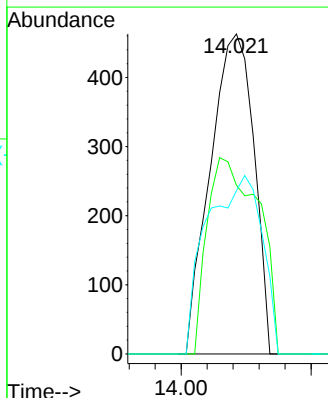
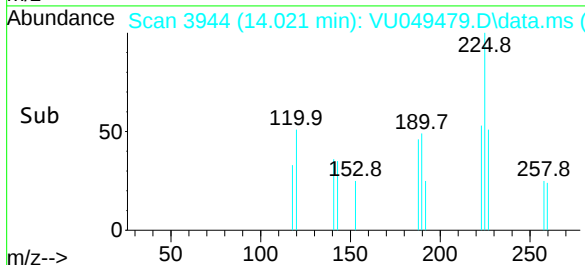
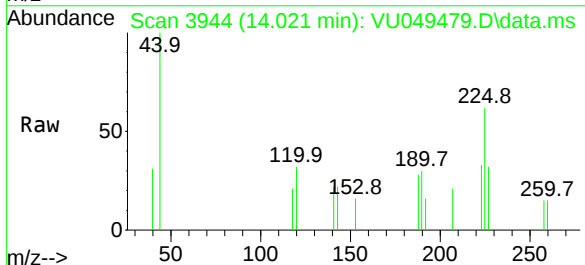


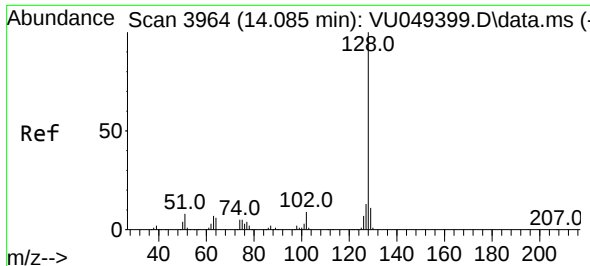
Tgt Ion:180 Resp: 3537
Ion Ratio Lower Upper
180 100
182 97.3 47.9 143.6
145 33.2 14.0 41.9



#94
Hexachlorobutadiene
Concen: 0.255 ug/l
RT: 14.021 min Scan# 3944
Delta R.T. 0.000 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

Tgt Ion:225 Resp: 540
Ion Ratio Lower Upper
225 100
223 72.0 31.3 93.9
227 70.6 32.0 96.2

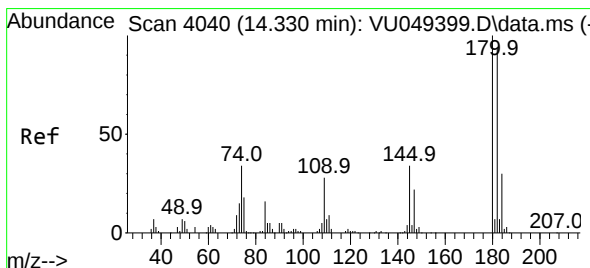
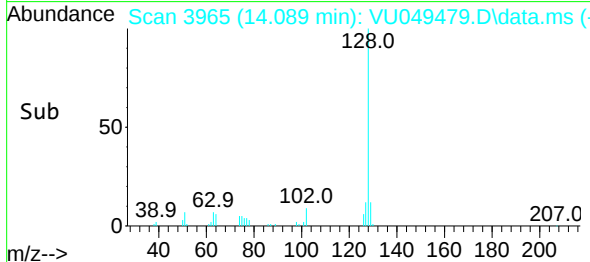
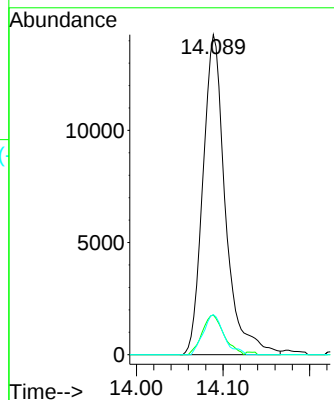
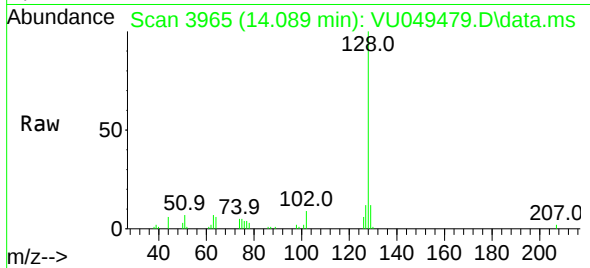




#95
Naphthalene
Concen: 3.287 ug/l
RT: 14.089 min Scan# 3964
Delta R.T. 0.003 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

Instrument :
MSVOA_U
ClientSampleId :
RE108D2-20220614DL

Tgt Ion:128	Resp:	25682
Ion Ratio	Lower	Upper
128	100	
127	11.9	10.3 15.5
129	11.5	8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 2.203 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. 0.003 min
Lab File: VU049479.D
Acq: 28 Jun 2022 23:49

Tgt Ion:180	Resp:	4944
Ion Ratio	Lower	Upper
180	100	
182	98.3	48.4 145.0
145	32.2	14.8 44.4

