

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU062722\
 Data File : VU049425.D
 Acq On : 28 Jun 2022 00:43
 Operator : SY/MD
 Sample : N3386-07DL 5X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 RE108D2-20220614DL

Quant Time: Jun 28 05:32:30 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U062722W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 28 05:14:22 2022
 Response via : Initial Calibration

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

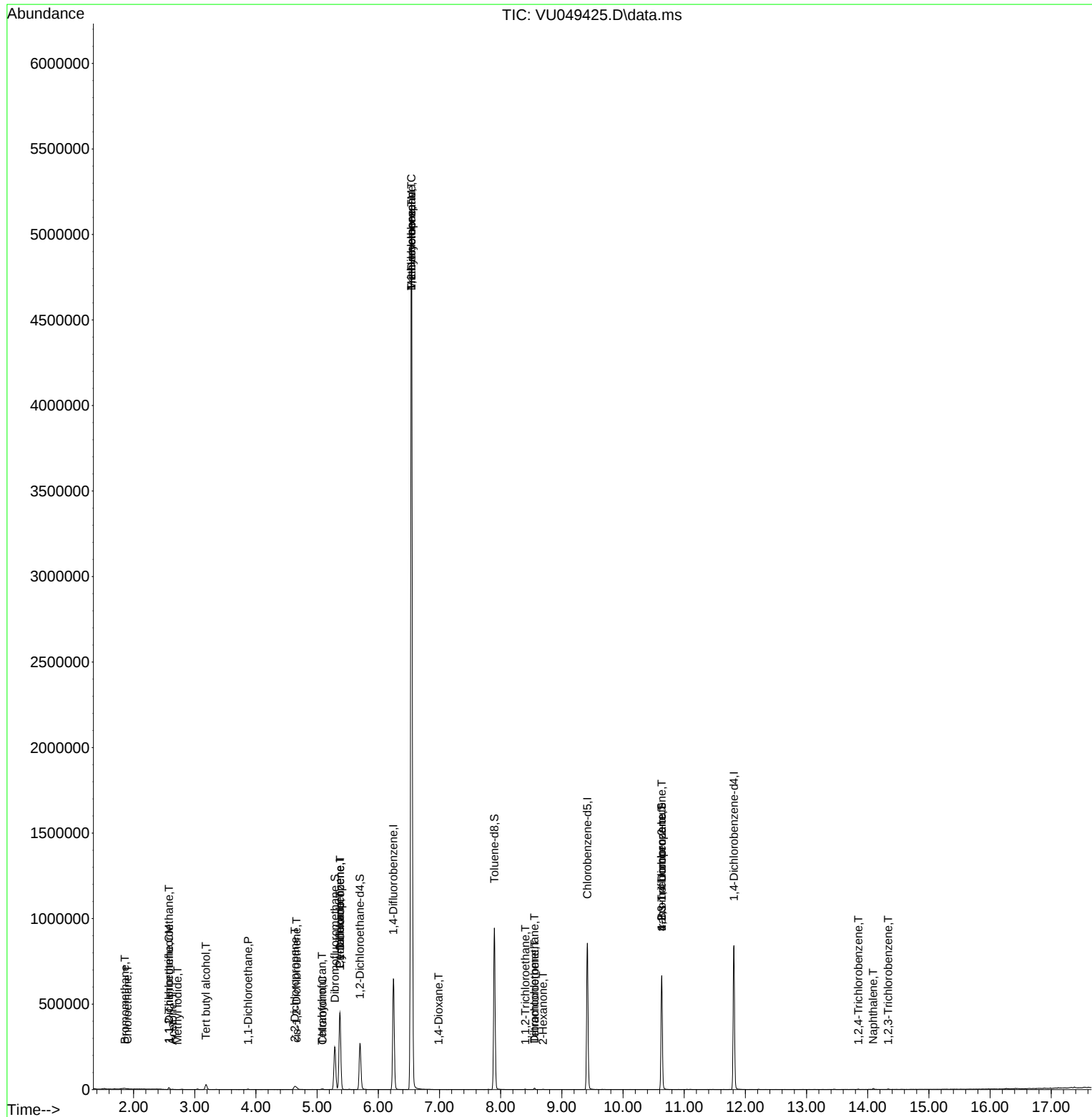
Internal Standards						
1) Pentafluorobenzene	5.372	168	306948	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.247	114	527974	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.417	117	471387	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	220244	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.700	65	200498	42.414	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	84.820%		
35) Dibromofluoromethane	5.288	113	164578	44.555	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	89.100%		
50) Toluene-d8	7.896	98	630248	47.837	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	95.680%		
62) 4-Bromofluorobenzene	10.632	95	230836	45.738	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	91.480%		
Target Compounds						
						Qvalue
3) Chloromethane	1.520	50	3850	Below Cal		95
5) Bromomethane	1.858	94	446	0.289 ug/l		95
6) Chloroethane	1.903	64	107	1.960 ug/l	#	3
9) 1,1,2-Trichlorotrifluo...	2.578	101	2499	0.734 ug/l		98
10) Methyl Iodide	2.719	142	146	7.550 ug/l	#	43
11) Tert butyl alcohol	3.182	59	17953	16.226 ug/l	#	37
12) 1,1-Dichloroethene	2.578	96	1721	0.516 ug/l		93
16) Acetone	2.639	43	2212	0.928 ug/l	#	87
20) Methylene Chloride	3.047	84	1544	Below Cal	#	91
24) 1,1-Dichloroethane	3.870	63	3663	0.496 ug/l	#	91
26) 2,2-Dichloropropane	4.636	77	1466	0.238 ug/l	#	52
27) cis-1,2-Dichloroethene	4.665	96	3603	0.868 ug/l		87
29) Tetrahydrofuran	5.079	42	869	0.355 ug/l	#	67
30) Chloroform	5.089	83	2841	0.389 ug/l		94
31) Cyclohexane	5.372	56	6590	0.928 ug/l	#	1
36) 1,1-Dichloropropene	5.375	75	25568	4.774 ug/l	#	48
39) Methylcyclohexane	6.542	83	21509	3.350 ug/l	#	1
44) Trichloroethene	6.542	130	1713651	445.787 ug/l		87
45) 1,2-Dichloropropane	6.539	63	5913	1.320 ug/l	#	1
49) 1,4-Dioxane	6.986	88	116	0.901 ug/l	#	1
55) 1,1,2-Trichloroethane	8.404	97	854	0.215 ug/l		91
59) 2-Hexanone	8.693	43	1478	0.262 ug/l		75
60) Dibromochloromethane	8.552	129	1763	0.427 ug/l	#	11
64) Tetrachloroethene	8.555	164	1550	0.513 ug/l		92
76) 1,2,3-Trichloropropane	10.632	75	115933	15.528 ug/l	#	45
81) trans-1,4-Dichloro-2-b...	10.632	75	115933	57.343 ug/l	#	15
93) 1,2,4-Trichlorobenzene	13.844	180	811	1.912 ug/l		89
95) Naphthalene	14.089	128	5831	2.062 ug/l		100
96) 1,2,3-Trichlorobenzene	14.336	180	1203	1.409 ug/l		89

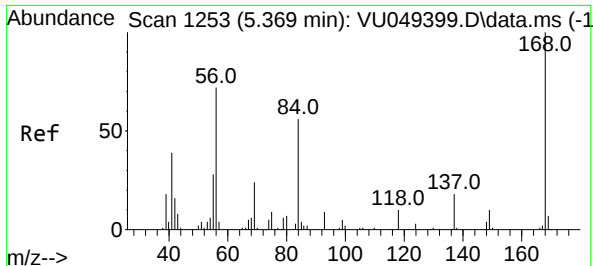
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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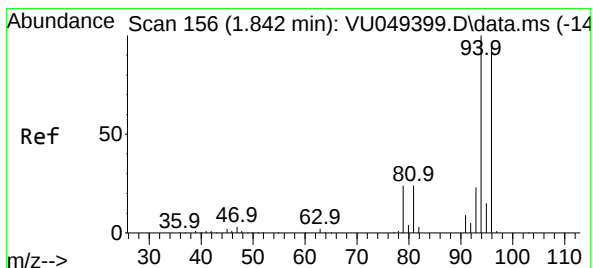
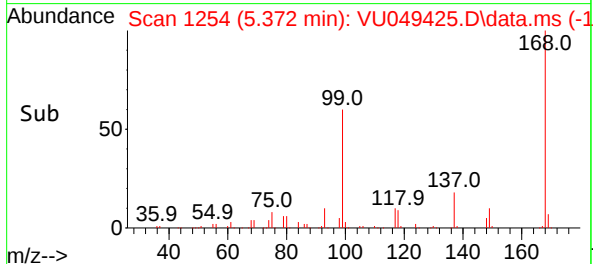
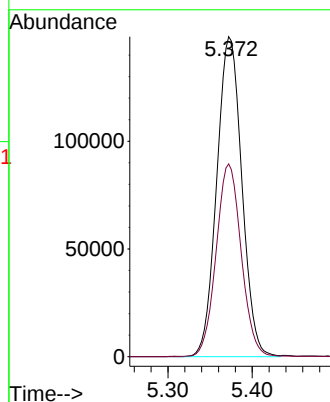
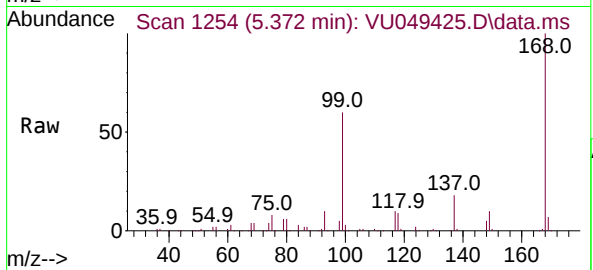




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.372 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

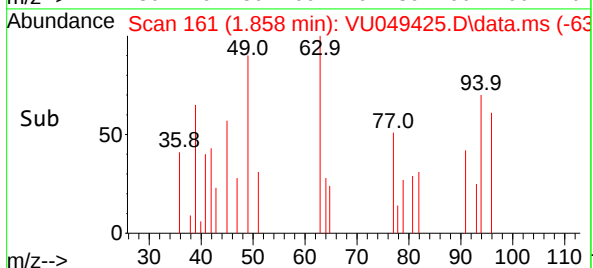
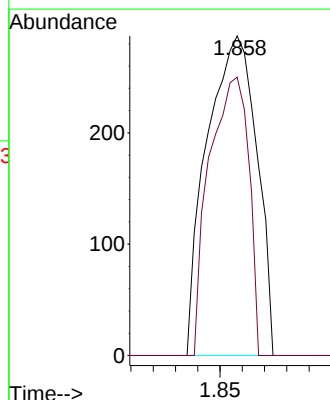
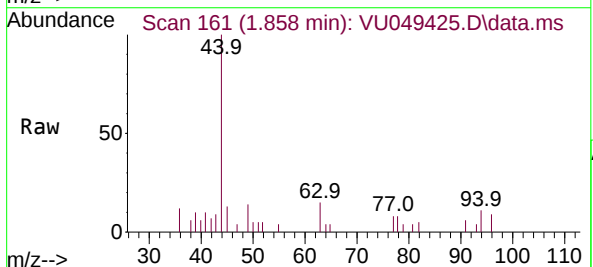
Instrument :
MSVOA_U
ClientSampleId :
RE108D2-20220614DL

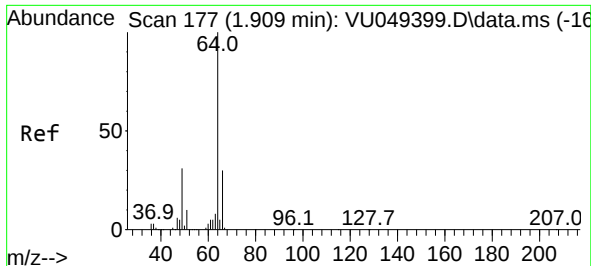
Tgt Ion:168 Resp: 306948
Ion Ratio Lower Upper
168 100
99 60.1 39.3 58.9#



#5
Bromomethane
Concen: 0.289 ug/l
RT: 1.858 min Scan# 161
Delta R.T. 0.016 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

Tgt Ion: 94 Resp: 446
Ion Ratio Lower Upper
94 100
96 87.1 73.7 110.5

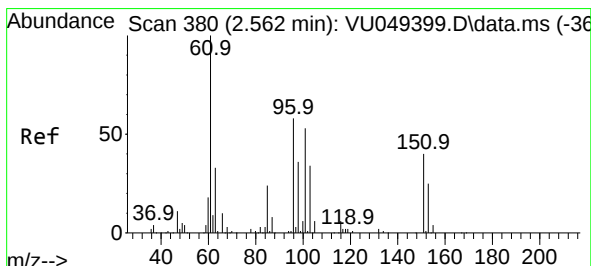
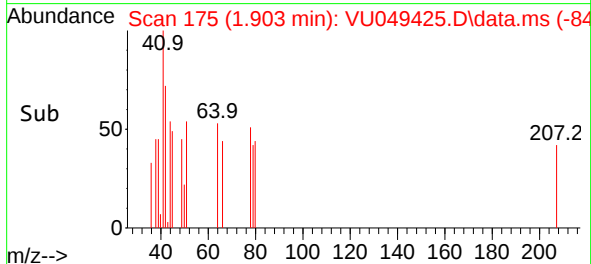
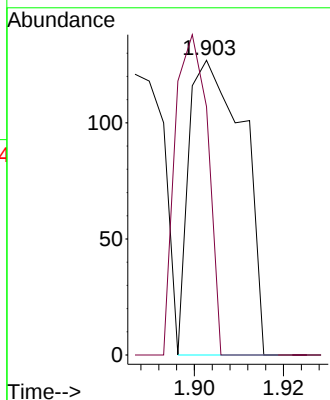
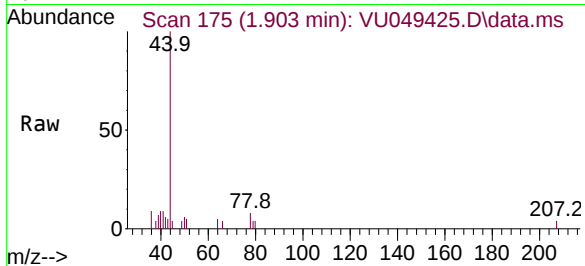




#6
Chloroethane
Concen: 1.960 ug/l
RT: 1.903 min Scan# 11
Delta R.T. -0.006 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

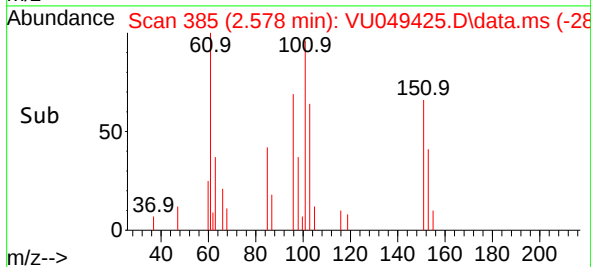
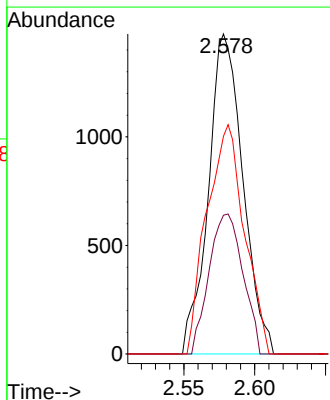
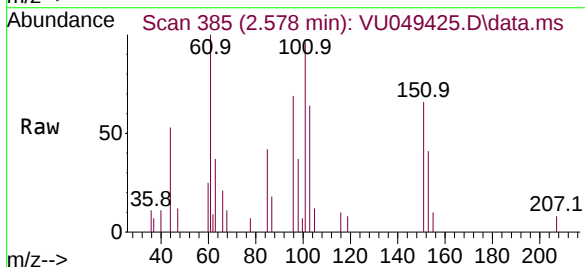
Instrument :
MSVOA_U
ClientSampleId :
RE108D2-20220614DL

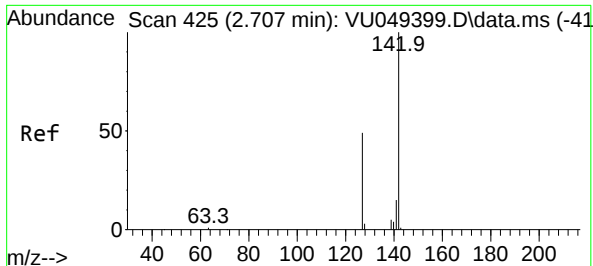
Tgt Ion: 64 Resp: 107
Ion Ratio Lower Upper
64 100
66 84.3 24.7 37.1#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.734 ug/l
RT: 2.578 min Scan# 385
Delta R.T. 0.016 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

Tgt Ion:101 Resp: 2499
Ion Ratio Lower Upper
101 100
85 42.9 33.9 50.9
151 77.8 64.0 96.0





#10

Methyl Iodide

Concen: 7.550 ug/l

RT: 2.719 min Scan# 41

Delta R.T. 0.013 min

Lab File: VU049425.D

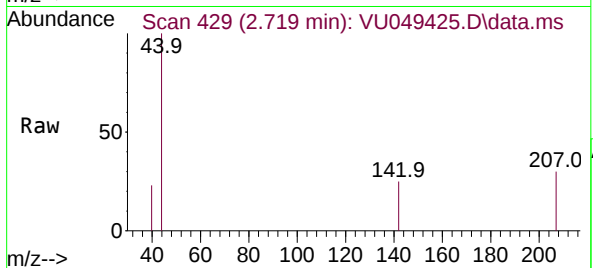
Acq: 28 Jun 2022 00:43

Instrument :

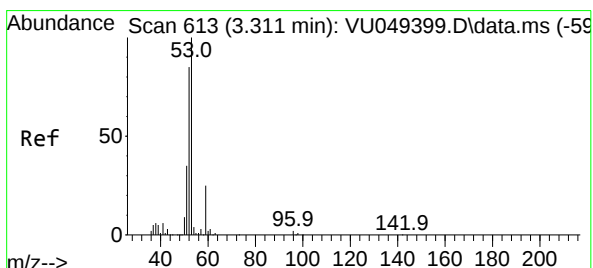
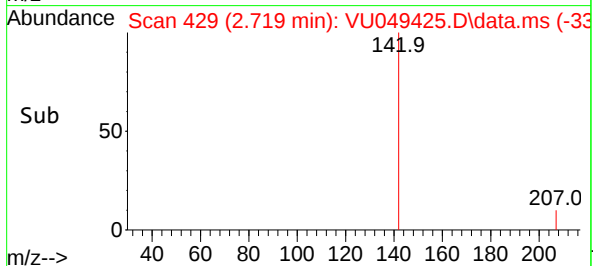
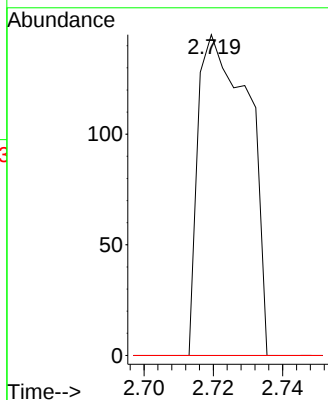
MSVOA_U

ClientSampleId :

RE108D2-20220614DL



Tgt Ion:	142	Resp:	146
Ion	Ratio	Lower	Upper
142	100		
127	0.0	32.5	48.7#
141	0.0	11.4	17.0#



#11

Tert butyl alcohol

Concen: 16.226 ug/l

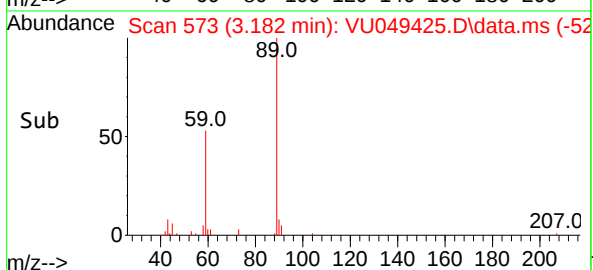
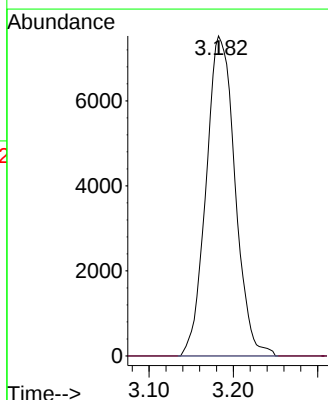
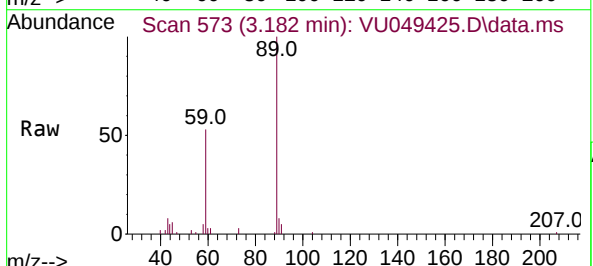
RT: 3.182 min Scan# 573

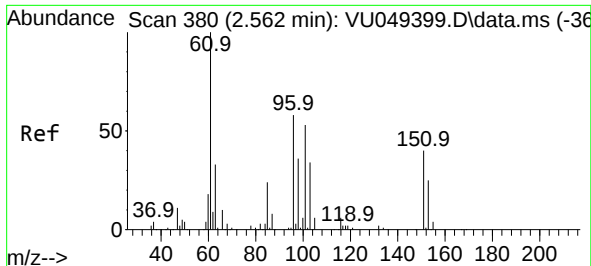
Delta R.T. -0.129 min

Lab File: VU049425.D

Acq: 28 Jun 2022 00:43

Tgt Ion:	59	Resp:	17953
Ion	Ratio	Lower	Upper
59	100		
57	0.0	30.6	45.8#





#12

1,1-Dichloroethene

Concen: 0.516 ug/l

RT: 2.578 min Scan# 380

Delta R.T. 0.016 min

Lab File: VU049425.D

Acq: 28 Jun 2022 00:43

Instrument :

MSVOA_U

ClientSampleId :

RE108D2-20220614DL

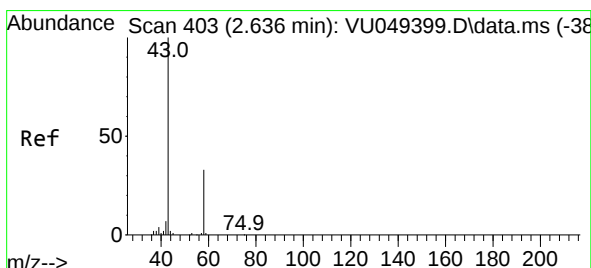
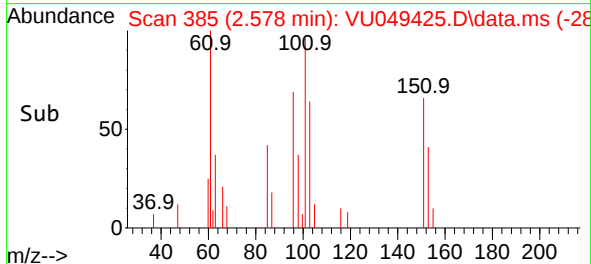
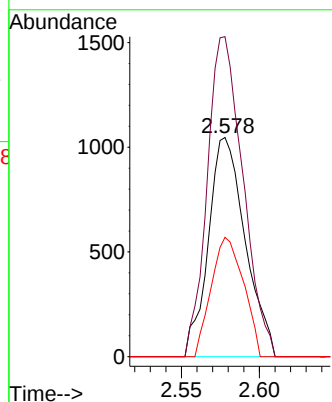
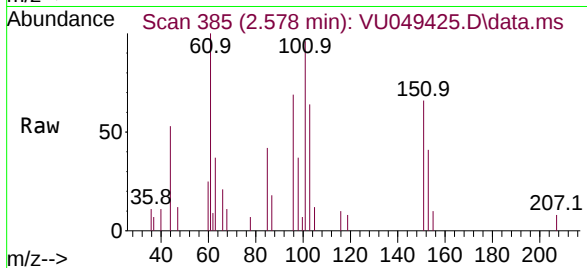
Tgt Ion: 96 Resp: 1721

Ion Ratio Lower Upper

96 100

61 145.9 122.2 183.2

98 54.4 50.7 76.1



#16

Acetone

Concen: 0.928 ug/l

RT: 2.639 min Scan# 404

Delta R.T. 0.003 min

Lab File: VU049425.D

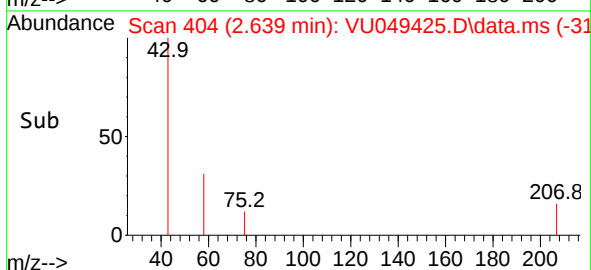
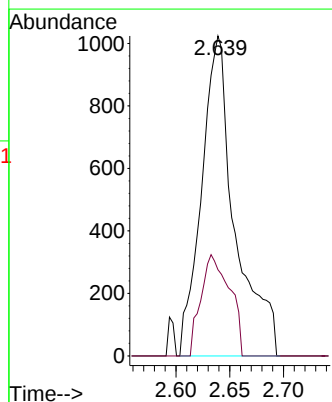
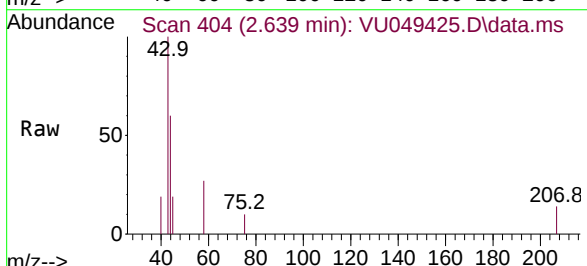
Acq: 28 Jun 2022 00:43

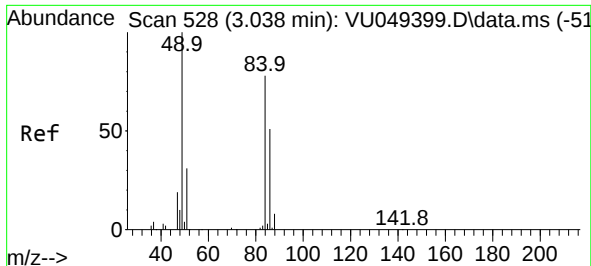
Tgt Ion: 43 Resp: 2212

Ion Ratio Lower Upper

43 100

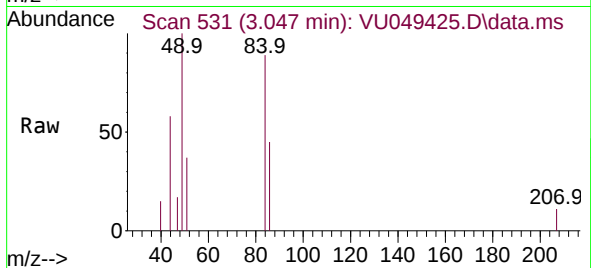
58 27.0 27.5 41.3#



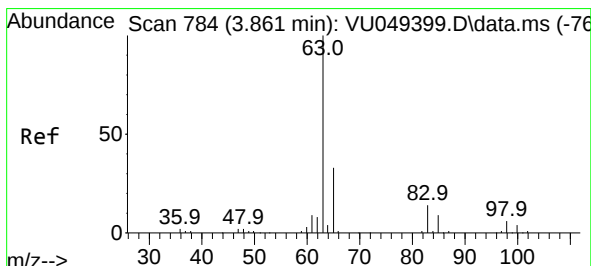
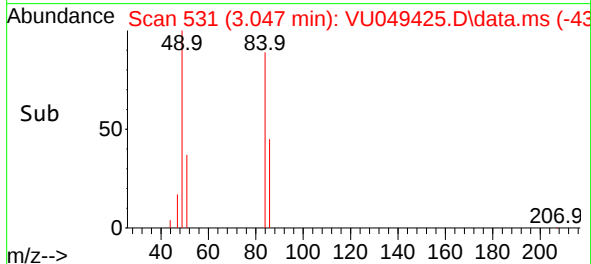
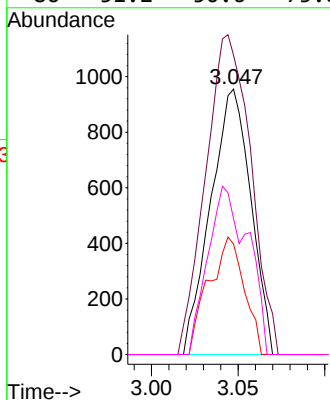


#20
Methylene Chloride
Concen: Below Cal
RT: 3.047 min Scan# 51
Delta R.T. 0.010 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

Instrument :
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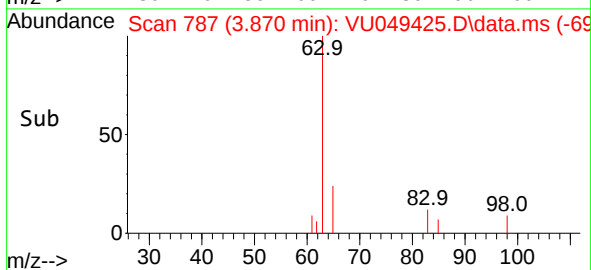
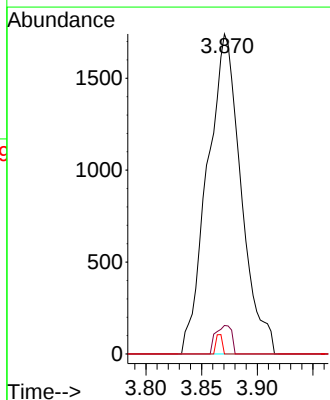
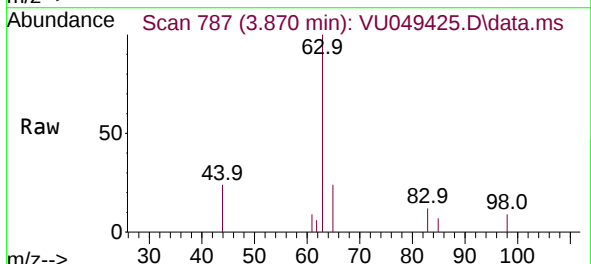


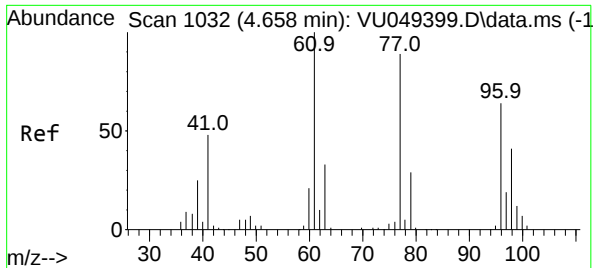
Tgt Ion:	84	Resp:	1544
Ion	Ratio	Lower	Upper
84	100		
49	112.8	86.6	129.8
51	41.7	26.6	40.0#
86	51.2	50.6	75.8



#24
1,1-Dichloroethane
Concen: 0.496 ug/l
RT: 3.870 min Scan# 787
Delta R.T. 0.010 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

Tgt Ion:	63	Resp:	3663
Ion	Ratio	Lower	Upper
63	100		
98	8.9	3.6	10.9
100	0.0	2.4	7.2#





#26

2,2-Dichloropropane

Concen: 0.238 ug/l

RT: 4.636 min Scan# 1032

Delta R.T. -0.022 min

Lab File: VU049425.D

Acq: 28 Jun 2022 00:43

Instrument :

MSVOA_U

ClientSampleId :

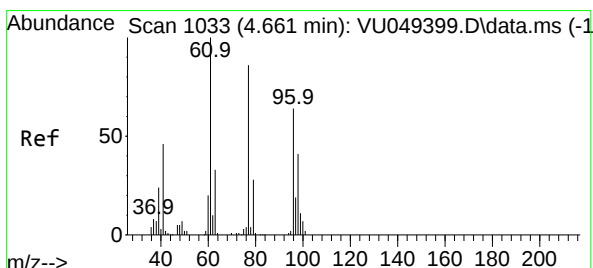
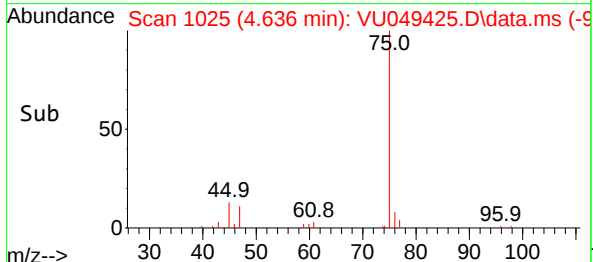
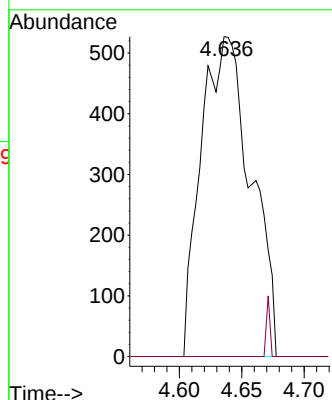
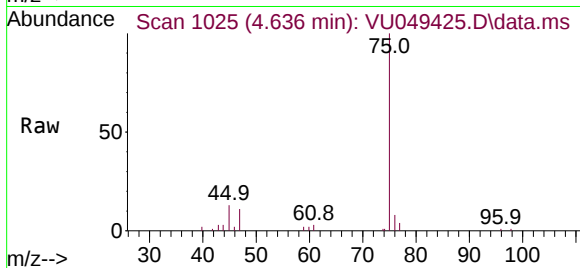
RE108D2-20220614DL

Tgt Ion: 77 Resp: 1466

Ion Ratio Lower Upper

77 100

97 0.0 11.6 34.8#



#27

cis-1,2-Dichloroethene

Concen: 0.868 ug/l

RT: 4.665 min Scan# 1034

Delta R.T. 0.003 min

Lab File: VU049425.D

Acq: 28 Jun 2022 00:43

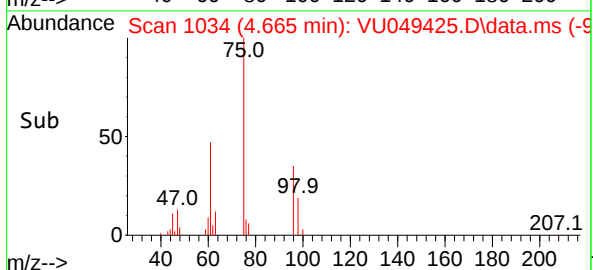
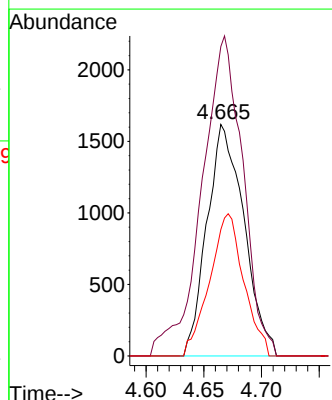
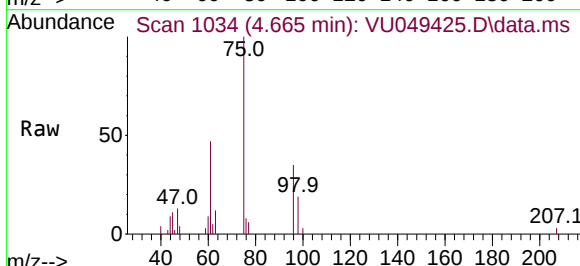
Tgt Ion: 96 Resp: 3603

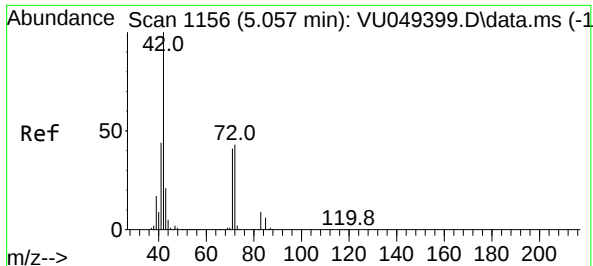
Ion Ratio Lower Upper

96 100

61 153.0 0.0 271.6

98 56.9 0.0 128.2





#29

Tetrahydrofuran

Concen: 0.355 ug/l

RT: 5.079 min Scan# 1156

Delta R.T. 0.023 min

Lab File: VU049425.D

Acq: 28 Jun 2022 00:43

Instrument :

MSVOA_U

ClientSampleId :

RE108D2-20220614DL

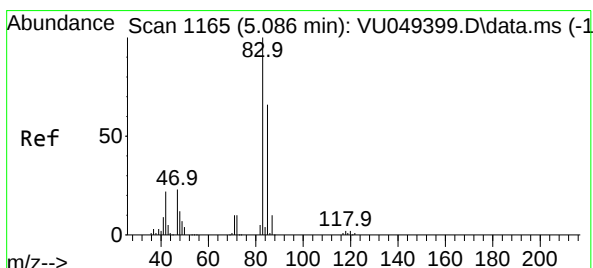
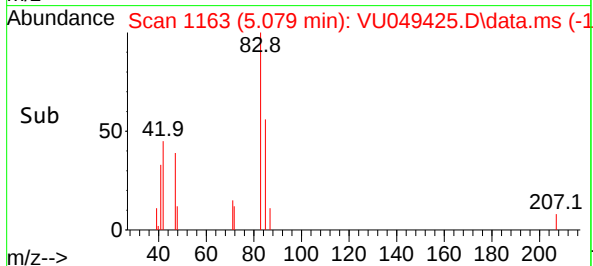
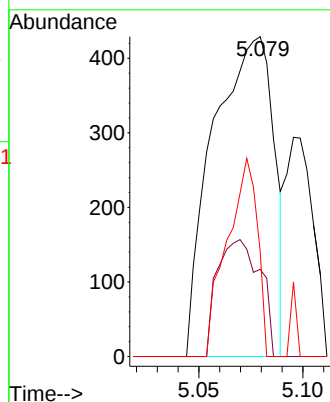
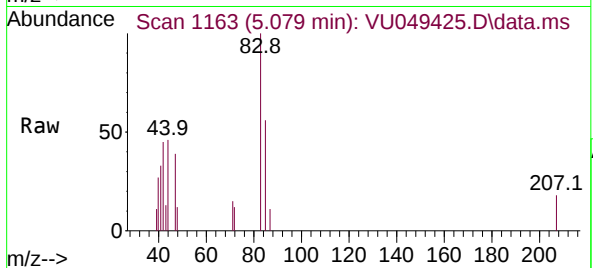
Tgt Ion: 42 Resp: 869

Ion Ratio Lower Upper

42 100

72 25.8 42.6 63.8#

71 31.2 40.3 60.5#



#30

Chloroform

Concen: 0.389 ug/l

RT: 5.089 min Scan# 1166

Delta R.T. 0.003 min

Lab File: VU049425.D

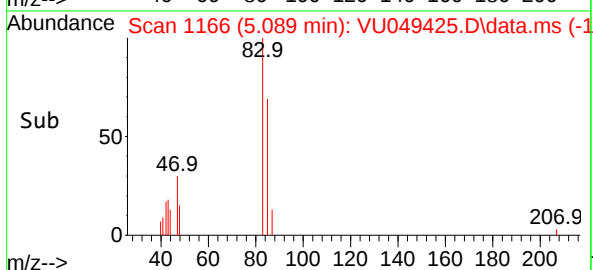
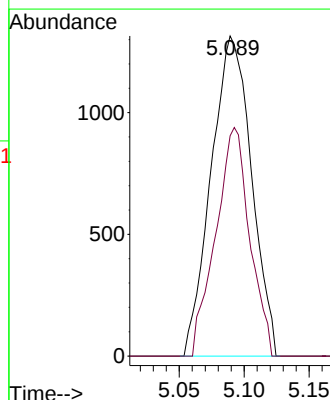
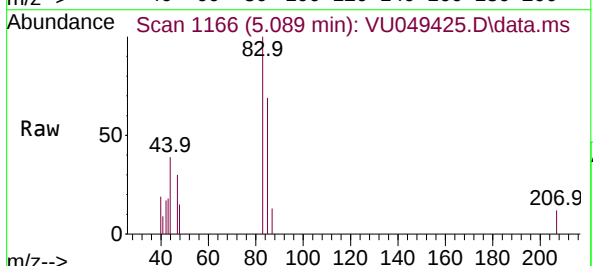
Acq: 28 Jun 2022 00:43

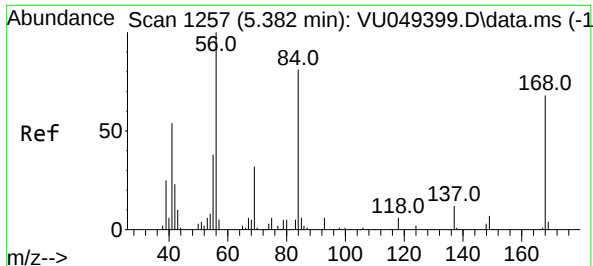
Tgt Ion: 83 Resp: 2841

Ion Ratio Lower Upper

83 100

85 68.8 51.2 76.8





#31

Cyclohexane

Concen: 0.928 ug/l

RT: 5.372 min Scan# 1254

Delta R.T. -0.010 min

Lab File: VU049425.D

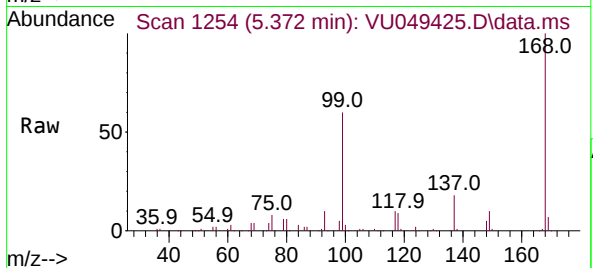
Acq: 28 Jun 2022 00:43

Instrument :

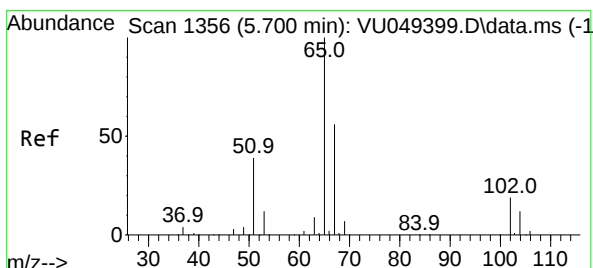
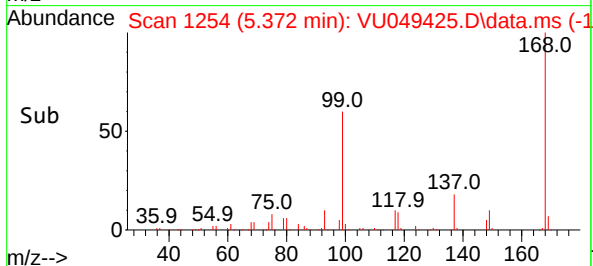
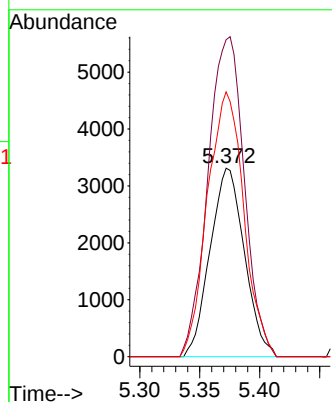
MSVOA_U

ClientSampleId :

RE108D2-20220614DL



Tgt Ion:	56	Resp:	6590
Ion Ratio	Lower	Upper	
56	100		
69	168.2	27.8	41.8#
84	140.5	74.2	111.4#



#33

1,2-Dichloroethane-d4

Concen: 42.414 ug/l

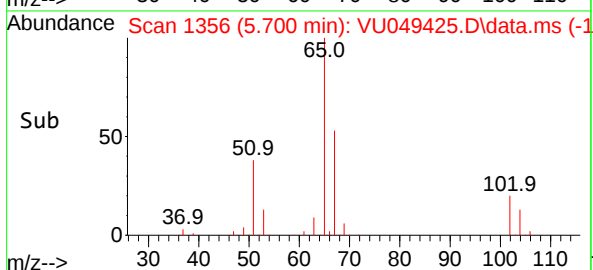
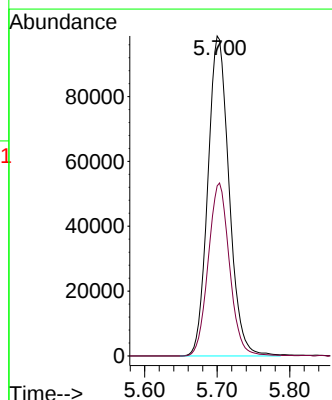
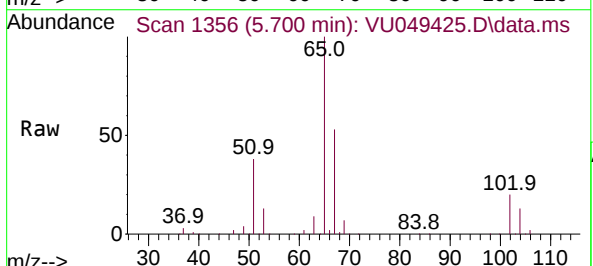
RT: 5.700 min Scan# 1356

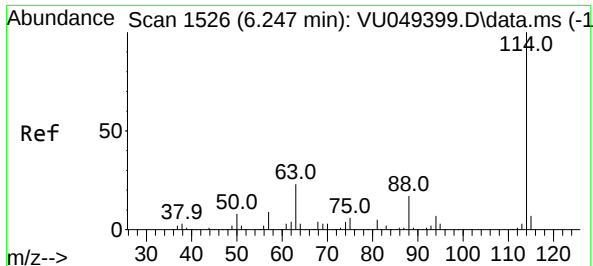
Delta R.T. 0.000 min

Lab File: VU049425.D

Acq: 28 Jun 2022 00:43

Tgt Ion:	65	Resp:	200498
Ion Ratio	Lower	Upper	
65	100		
67	54.2	0.0	108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.247 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU049425.D

Acq: 28 Jun 2022 00:43

Instrument :

MSVOA_U

ClientSampleId :

RE108D2-20220614DL

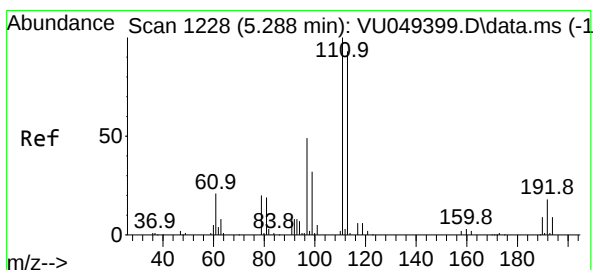
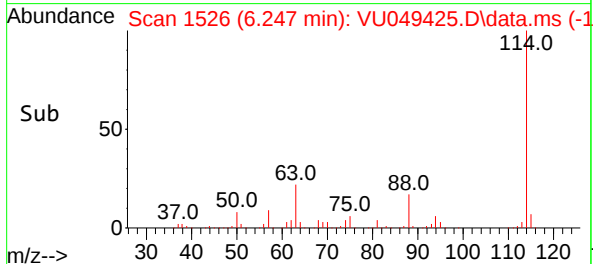
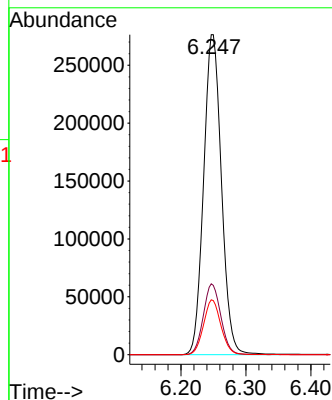
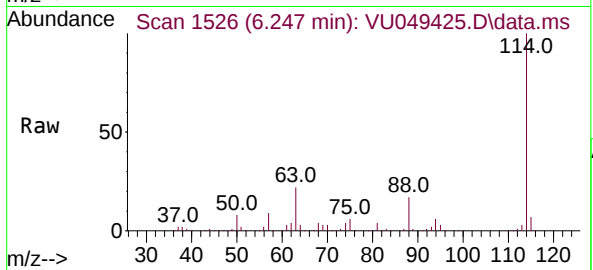
Tgt Ion:114 Resp: 527974

Ion Ratio Lower Upper

114 100

63 22.2 0.0 37.8

88 17.1 0.0 29.2



#35

Dibromofluoromethane

Concen: 44.555 ug/l

RT: 5.288 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VU049425.D

Acq: 28 Jun 2022 00:43

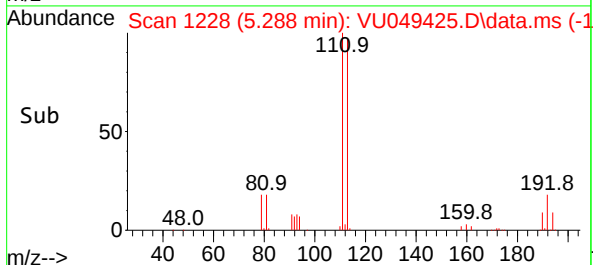
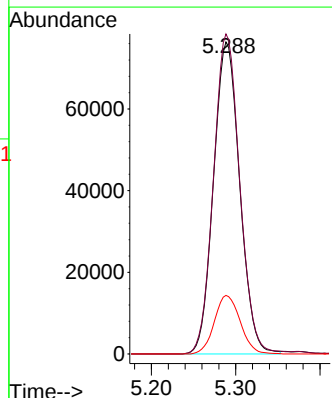
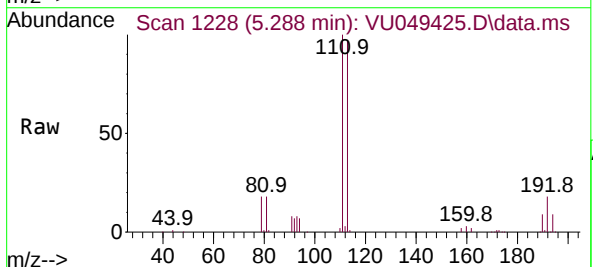
Tgt Ion:113 Resp: 164578

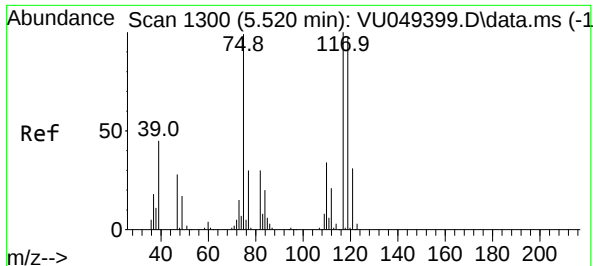
Ion Ratio Lower Upper

113 100

111 103.0 82.1 123.1

192 18.5 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.774 ug/l

RT: 5.375 min Scan# 11

Delta R.T. -0.145 min

Lab File: VU049425.D

Acq: 28 Jun 2022 00:43

Instrument :

MSVOA_U

ClientSampleId :

RE108D2-20220614DL

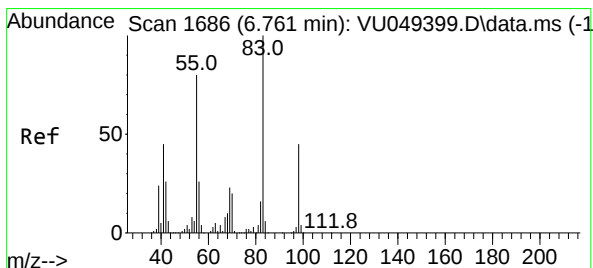
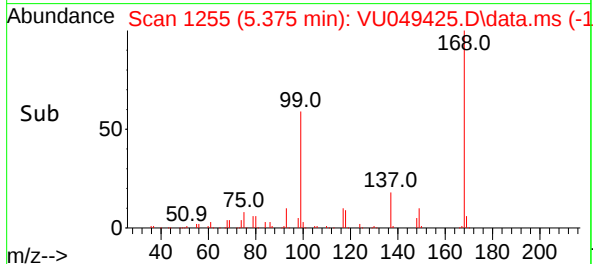
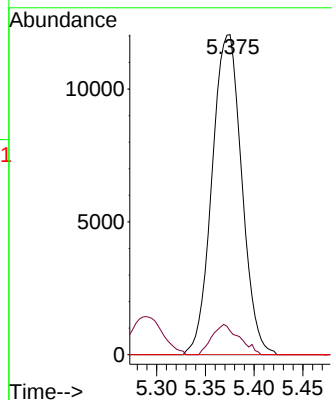
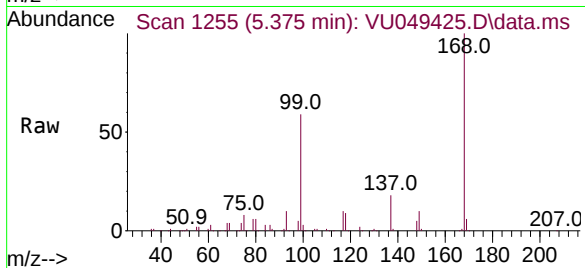
Tgt Ion: 75 Resp: 25568

Ion Ratio Lower Upper

75 100

110 8.7 18.4 55.2#

77 0.0 25.1 37.7#



#39

Methylcyclohexane

Concen: 3.350 ug/l

RT: 6.542 min Scan# 1618

Delta R.T. -0.219 min

Lab File: VU049425.D

Acq: 28 Jun 2022 00:43

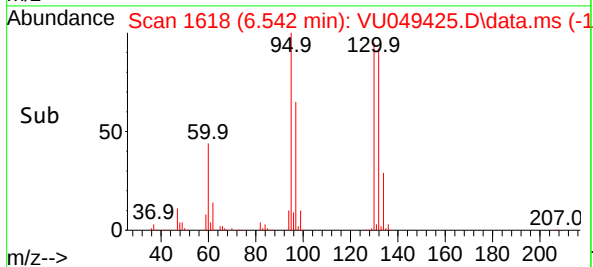
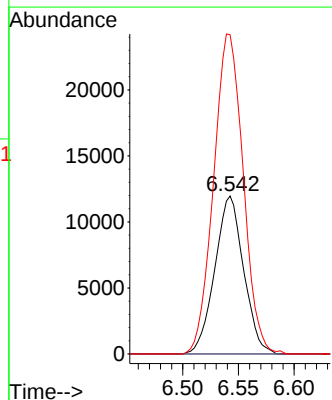
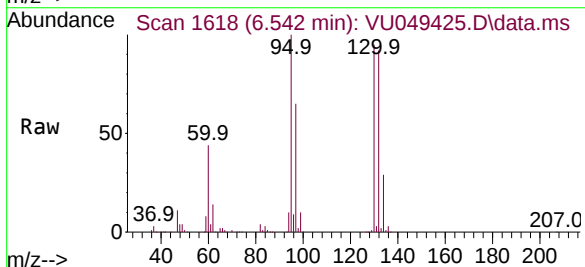
Tgt Ion: 83 Resp: 21509

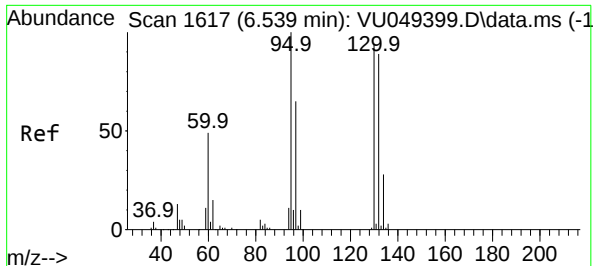
Ion Ratio Lower Upper

83 100

55 0.0 55.3 82.9#

98 202.2 37.3 55.9#

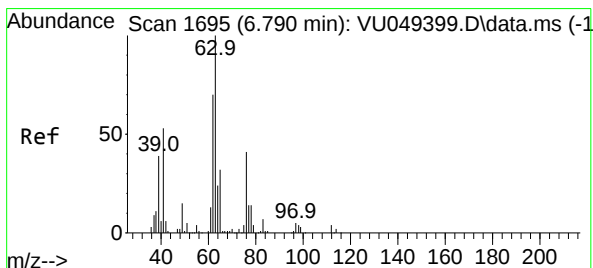
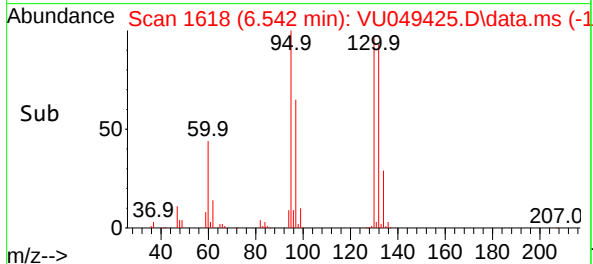
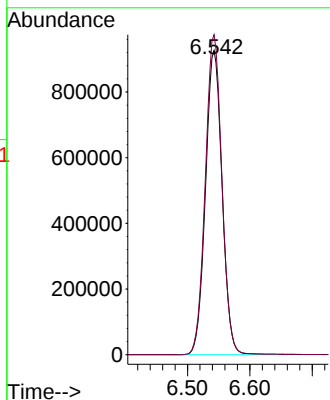
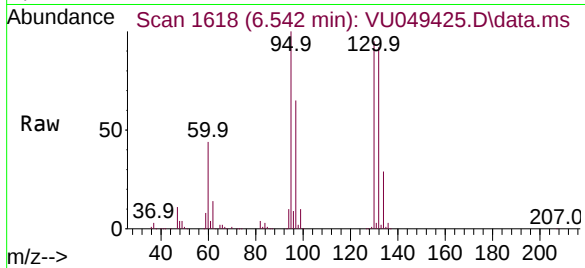




#44
 Trichloroethene
 Concen: 445.787 ug/l
 RT: 6.542 min Scan# 1
 Delta R.T. 0.003 min
 Lab File: VU049425.D
 Acq: 28 Jun 2022 00:43

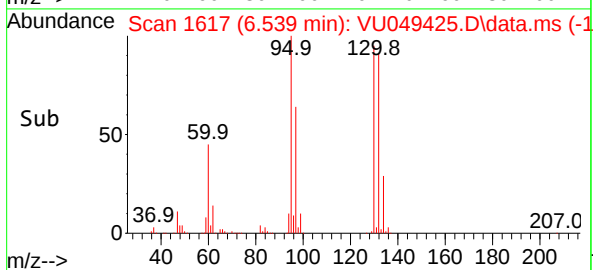
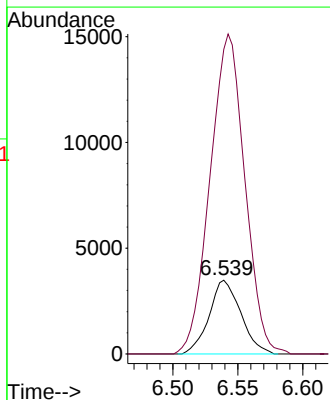
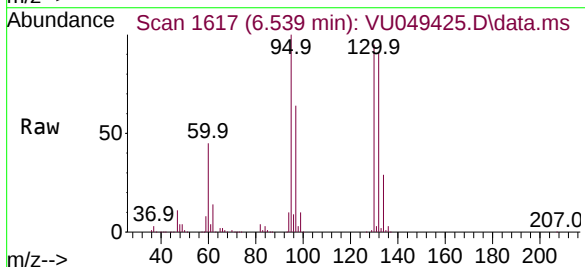
Instrument :
 MSVOA_U
 ClientSampleId :
 RE108D2-20220614DL

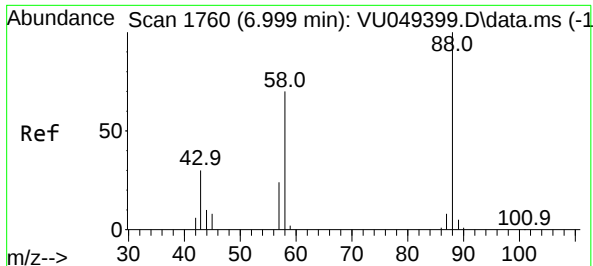
Tgt Ion:130 Resp: 1713651
 Ion Ratio Lower Upper
 130 100
 95 105.2 0.0 184.6



#45
 1,2-Dichloropropane
 Concen: 1.320 ug/l
 RT: 6.539 min Scan# 1617
 Delta R.T. -0.251 min
 Lab File: VU049425.D
 Acq: 28 Jun 2022 00:43

Tgt Ion: 63 Resp: 5913
 Ion Ratio Lower Upper
 63 100
 65 409.6 25.0 37.4#

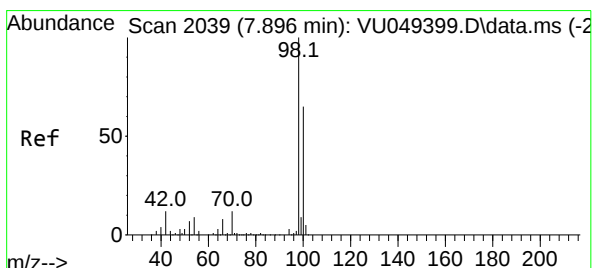
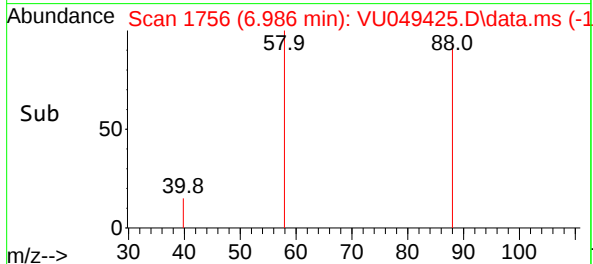
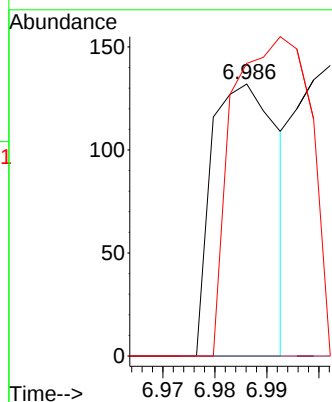
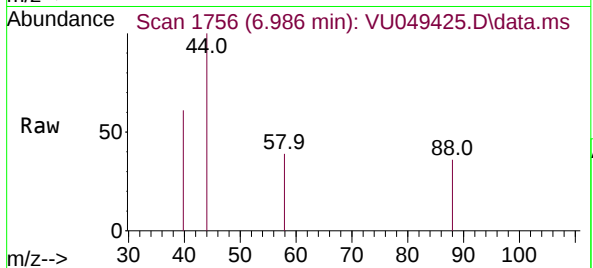




#49
1,4-Dioxane
Concen: 0.901 ug/l
RT: 6.986 min Scan# 116
Delta R.T. -0.013 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

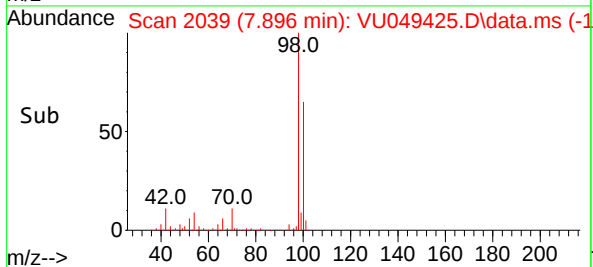
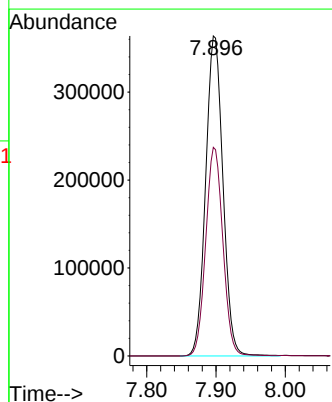
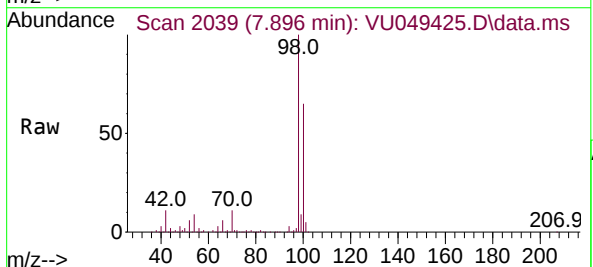
Instrument :
MSVOA_U
ClientSampleId :
RE108D2-20220614DL

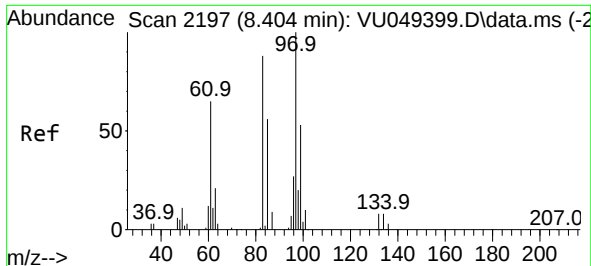
Tgt Ion: 88 Resp: 116
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 138.8 15.4 23.0#



#50
Toluene-d8
Concen: 47.837 ug/l
RT: 7.896 min Scan# 2039
Delta R.T. 0.000 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

Tgt Ion: 98 Resp: 630248
Ion Ratio Lower Upper
98 100
100 64.7 51.7 77.5



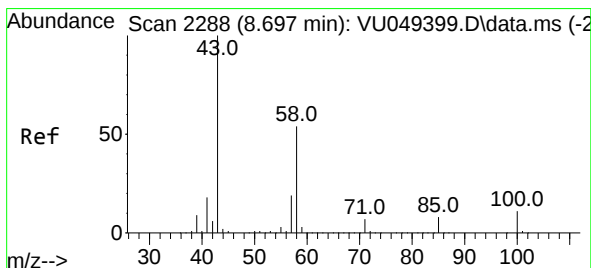
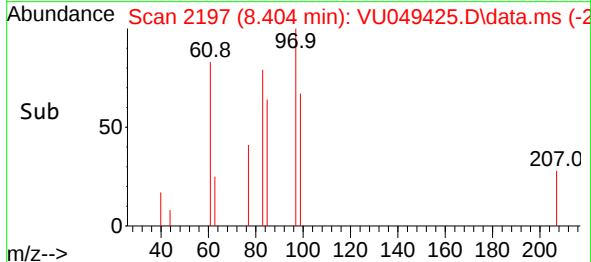
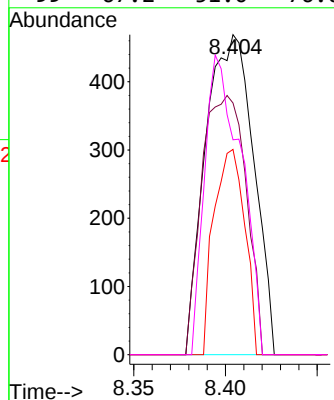
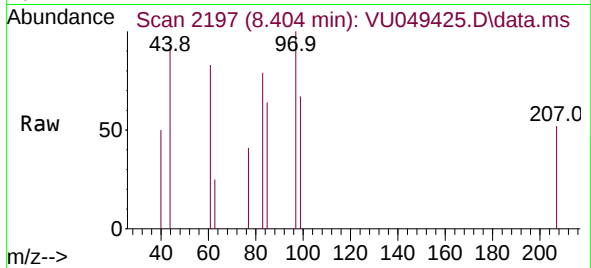


#55
1,1,2-Trichloroethane
Concen: 0.215 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. 0.000 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

Instrument :
MSVOA_U
ClientSampleId :
RE108D2-20220614DL

Tgt Ion: 97 Resp: 854

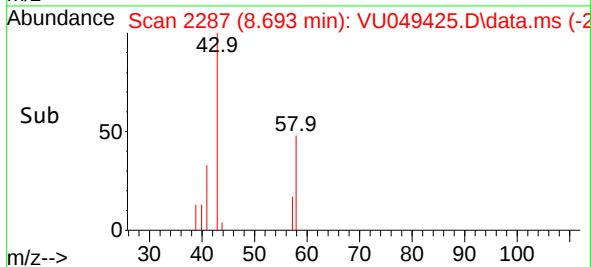
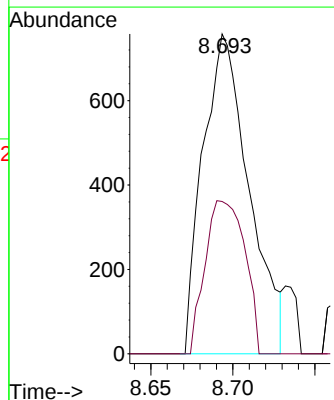
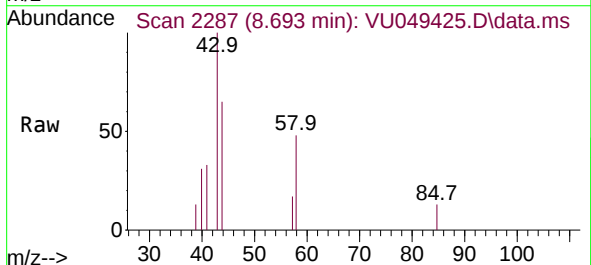
Ion	Ratio	Lower	Upper
97	100		
83	78.7	70.2	105.4
85	64.2	44.6	66.8
99	67.2	51.0	76.6

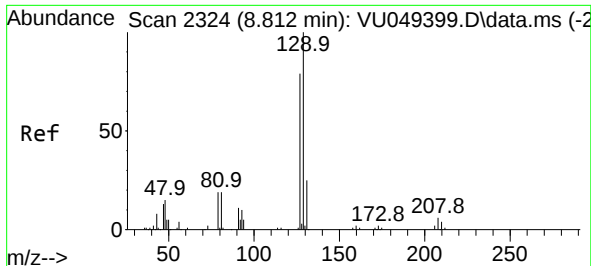


#59
2-Hexanone
Concen: 0.262 ug/l
RT: 8.693 min Scan# 2287
Delta R.T. -0.003 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

Tgt Ion: 43 Resp: 1478

Ion	Ratio	Lower	Upper
43	100		
58	41.2	30.3	90.8

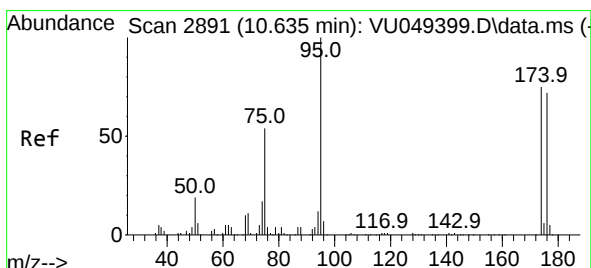
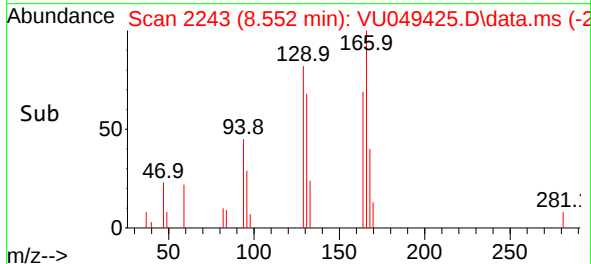
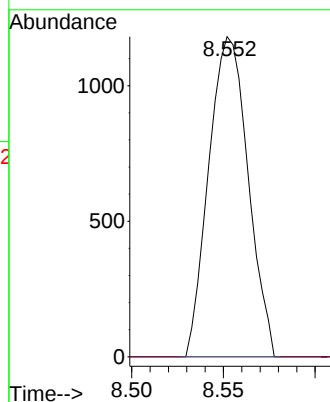
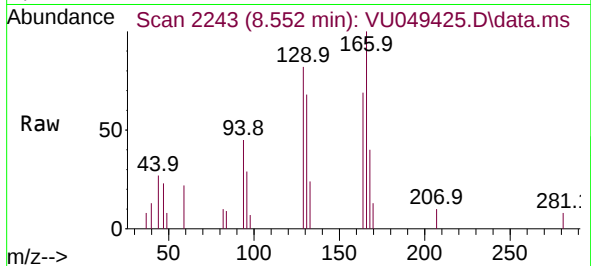




#60
Dibromochloromethane
Concen: 0.427 ug/l
RT: 8.552 min Scan# 21
Delta R.T. -0.260 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

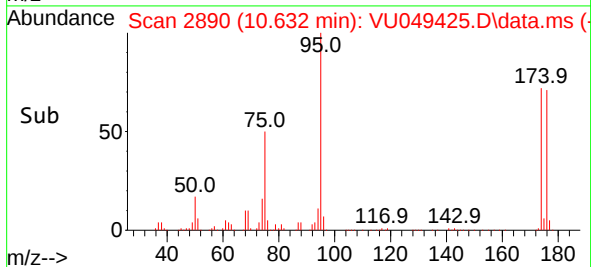
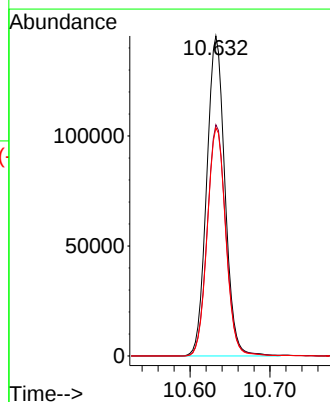
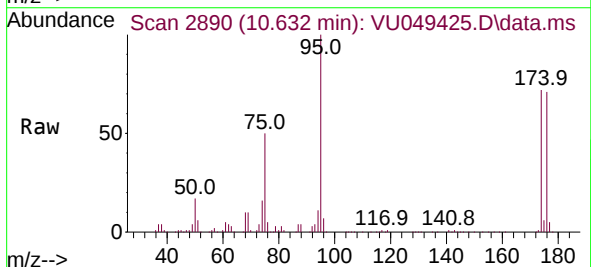
Instrument :
MSVOA_U
ClientSampleId :
RE108D2-20220614DL

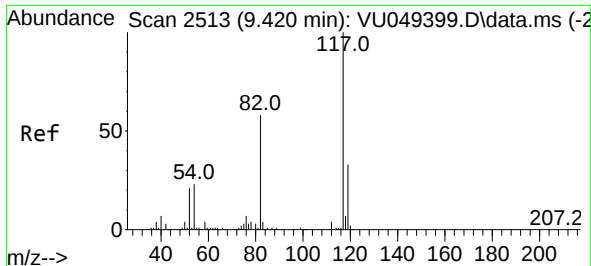
Tgt Ion:129 Resp: 1763
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 45.738 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. -0.003 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

Tgt Ion: 95 Resp: 230836
Ion Ratio Lower Upper
95 100
174 73.8 0.0 182.0
176 72.2 0.0 177.8

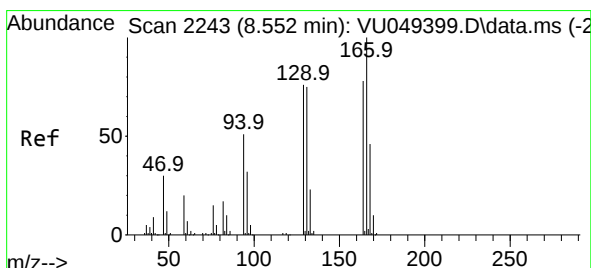
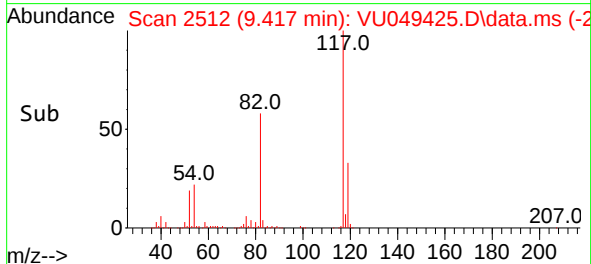
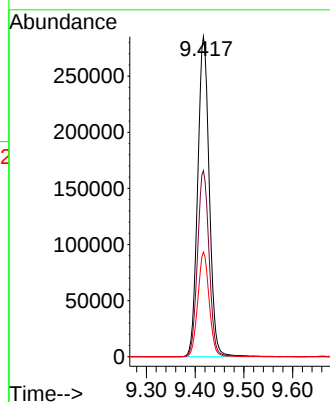
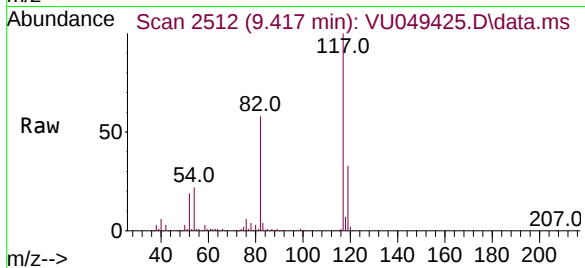




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.417 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

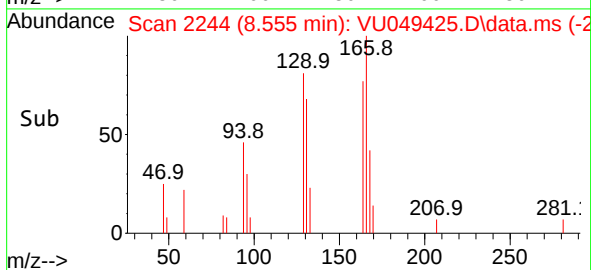
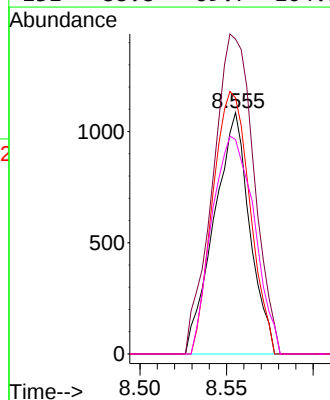
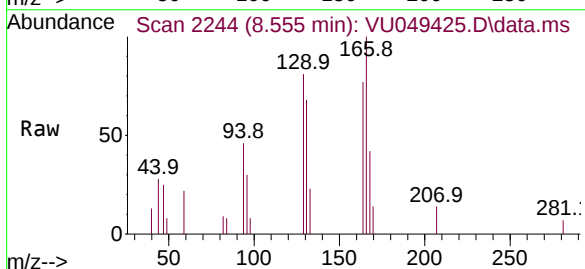
Instrument :
MSVOA_U
ClientSampleId :
RE108D2-20220614DL

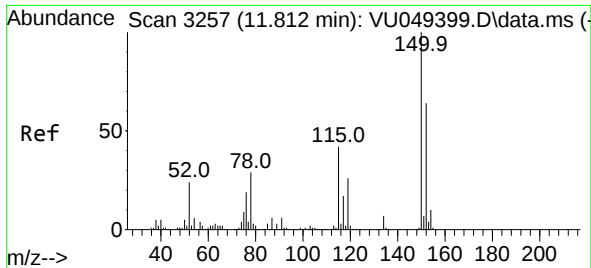
Tgt Ion:117 Resp: 471387
Ion Ratio Lower Upper
117 100
82 58.2 41.7 62.5
119 32.7 25.7 38.5



#64
Tetrachloroethene
Concen: 0.513 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. 0.003 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

Tgt Ion:164 Resp: 1550
Ion Ratio Lower Upper
164 100
166 130.4 100.0 150.0
129 106.0 72.0 108.0
131 88.8 69.7 104.5

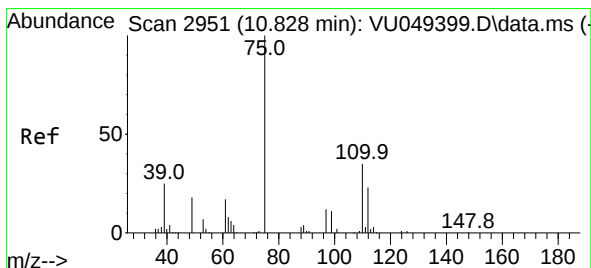
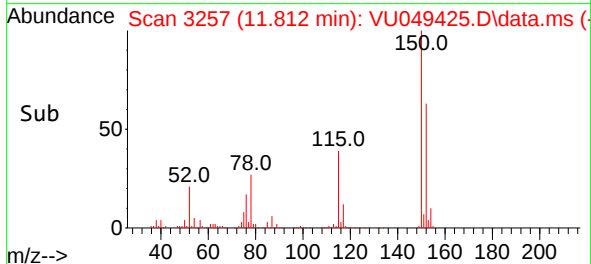
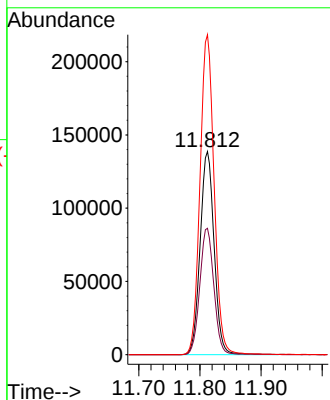
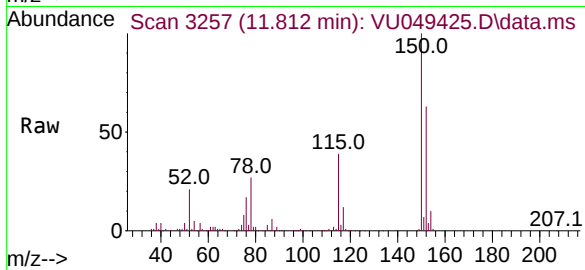




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.812 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

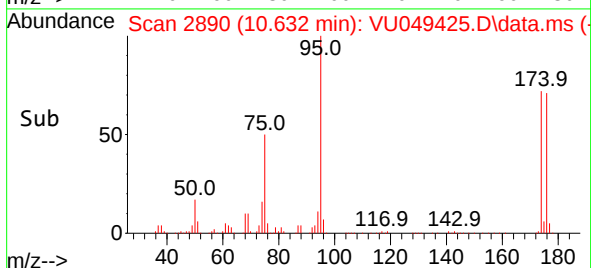
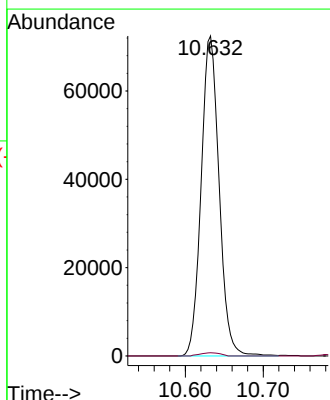
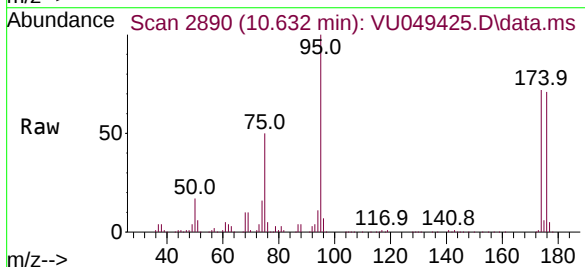
Instrument :
MSVOA_U
ClientSampleId :
RE108D2-20220614DL

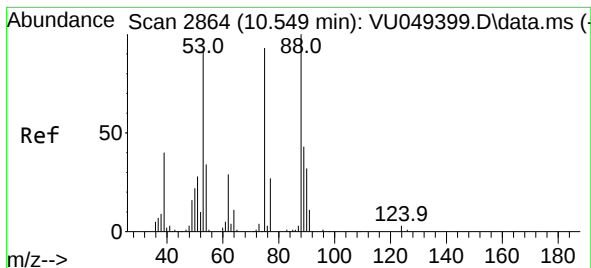
Tgt Ion:152 Resp: 220244
Ion Ratio Lower Upper
152 100
115 62.4 37.0 110.9
150 158.4 0.0 342.2



#76
1,2,3-Trichloropropane
Concen: 15.528 ug/l
RT: 10.632 min Scan# 2890
Delta R.T. -0.196 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

Tgt Ion: 75 Resp: 115933
Ion Ratio Lower Upper
75 100
77 1.1 15.8 47.3#

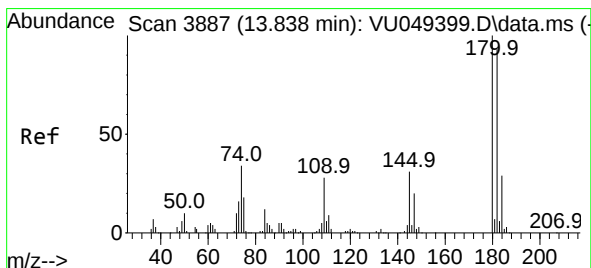
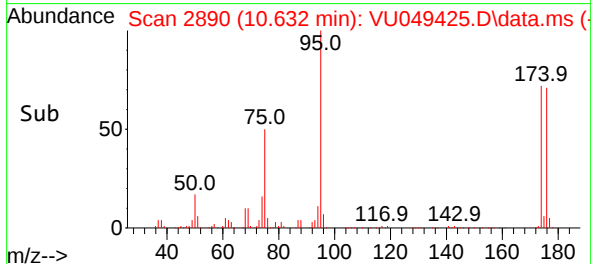
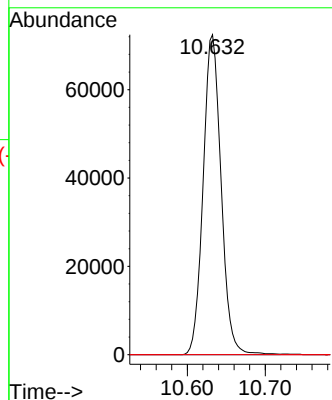
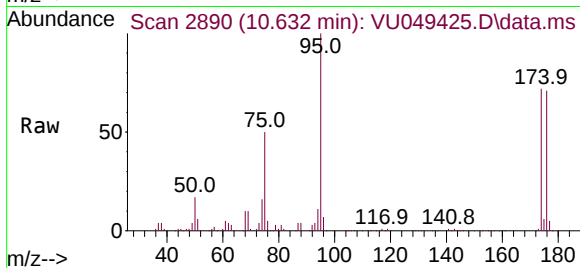




#81
trans-1,4-Dichloro-2-butene
Concen: 57.343 ug/l
RT: 10.632 min Scan# 211
Delta R.T. 0.084 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

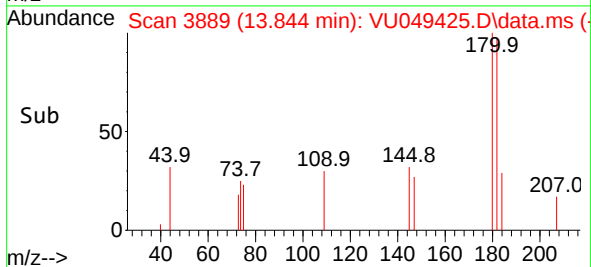
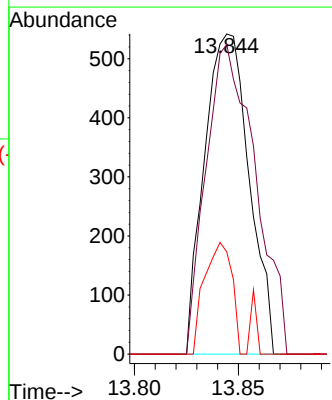
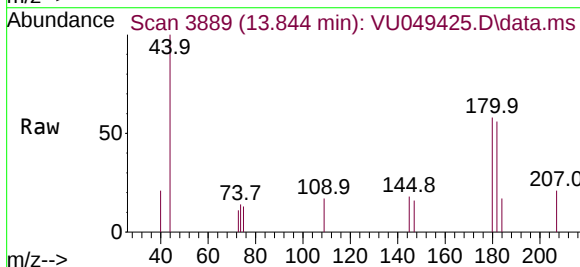
Instrument :
MSVOA_U
ClientSampleId :
RE108D2-20220614DL

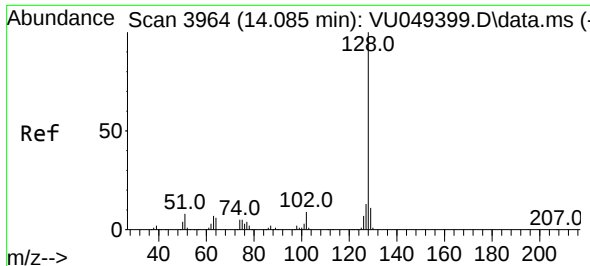
Tgt Ion: 75 Resp: 115933
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.912 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. 0.006 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

Tgt Ion: 180 Resp: 811
Ion Ratio Lower Upper
180 100
182 106.5 47.9 143.6
145 21.5 14.0 41.9

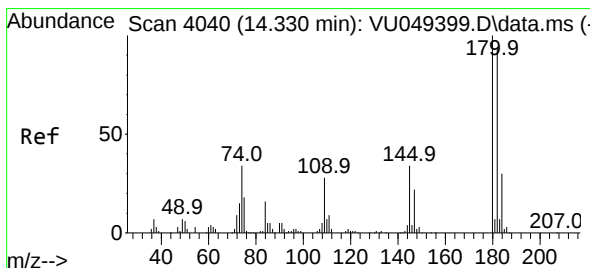
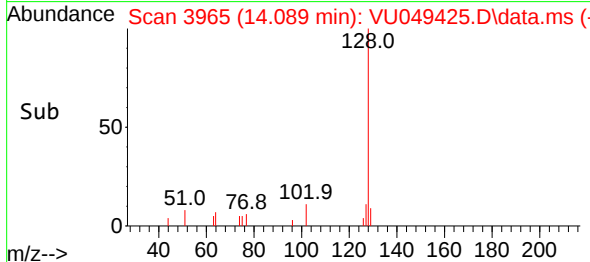
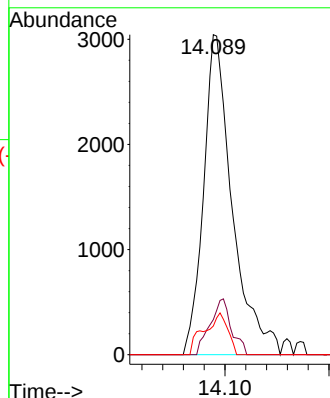
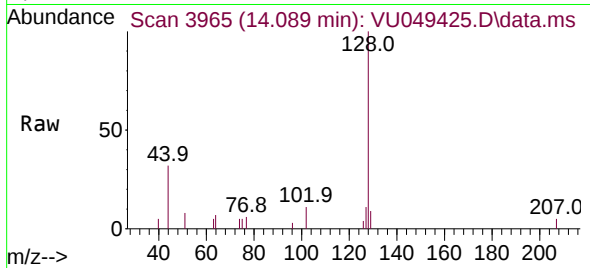




#95
Naphthalene
Concen: 2.062 ug/l
RT: 14.089 min Scan# 3964
Delta R.T. 0.003 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

Instrument :
MSVOA_U
ClientSampleId :
RE108D2-20220614DL

Tgt Ion:	128	Resp:	5831
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.3	15.5
129	10.7	8.6	13.0



#96
1,2,3-Trichlorobenzene
Concen: 1.409 ug/l
RT: 14.336 min Scan# 4042
Delta R.T. 0.006 min
Lab File: VU049425.D
Acq: 28 Jun 2022 00:43

Tgt Ion:	180	Resp:	1203
Ion Ratio	Lower	Upper	
180	100		
182	85.6	48.4	145.0
145	24.4	14.8	44.4

