

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU062922\
 Data File : VU049510.D
 Acq On : 29 Jun 2022 14:13
 Operator : SY/MD
 Sample : N3458-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 30 00:48:41 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

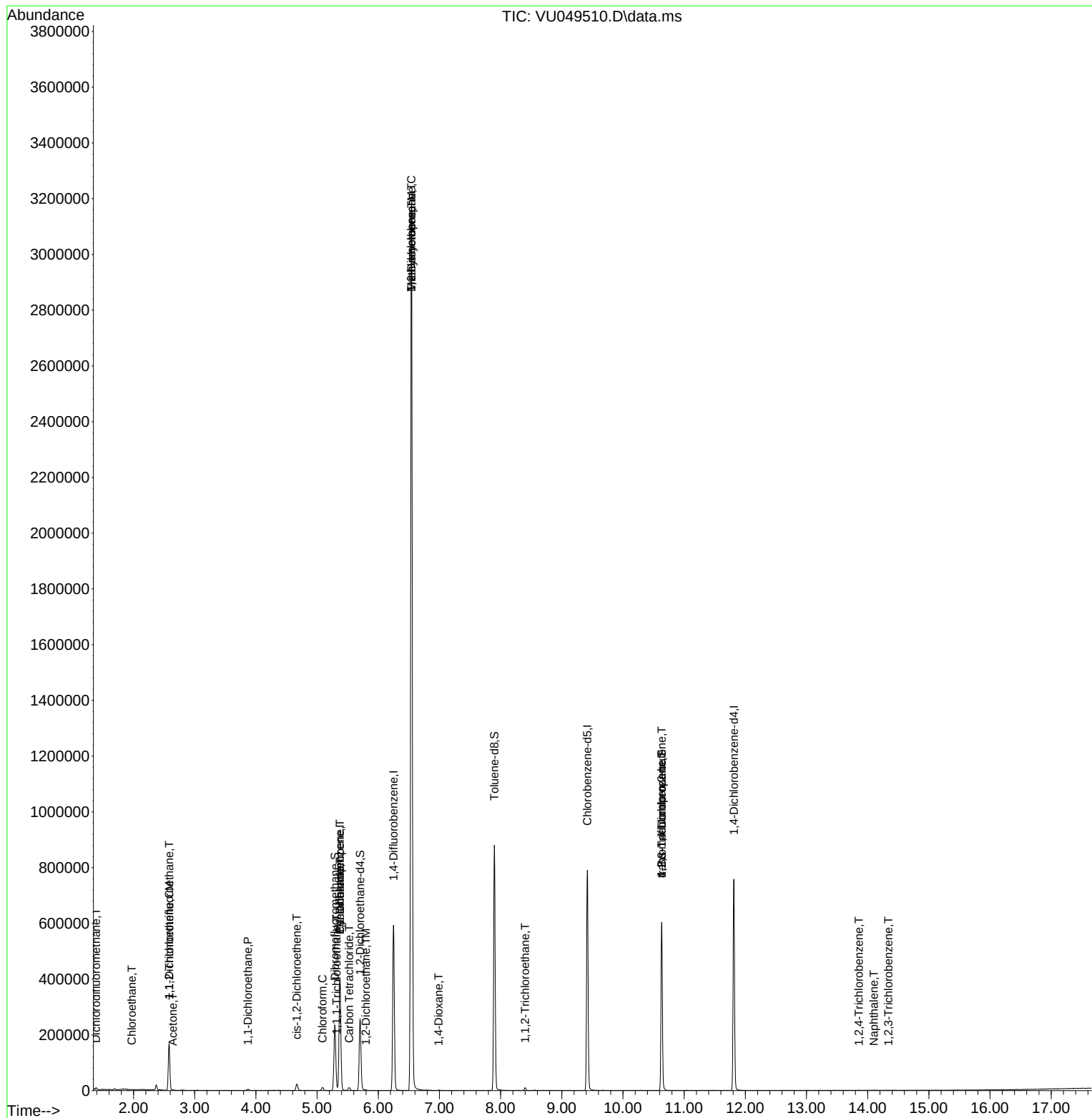
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.372	168	277436	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.250	114	488186	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.417	117	439523	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.813	152	200726	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.704	65	193054	45.183	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	90.360%
35) Dibromofluoromethane	5.289	113	153296	44.883	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	89.760%
50) Toluene-d8	7.896	98	585584	48.069	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	96.140%
62) 4-Bromofluorobenzene	10.633	95	211670	45.359	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	90.720%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.385	85	2720	0.610	ug/l	99
3) Chloromethane	1.521	50	1169	Below Cal		89
6) Chloroethane	1.971	64	90	1.957	ug/l #	44
9) 1,1,2-Trichlorotrifluo...	2.582	101	56257	18.279	ug/l	96
12) 1,1-Dichloroethene	2.582	96	9494	3.151	ug/l	97
16) Acetone	2.643	43	1395	0.647	ug/l #	84
20) Methylene Chloride	3.045	84	416	Below Cal	#	67
24) 1,1-Dichloroethane	3.868	63	5323	0.797	ug/l #	82
27) cis-1,2-Dichloroethene	4.668	96	12430	3.312	ug/l	96
30) Chloroform	5.089	83	9748	1.475	ug/l	96
31) Cyclohexane	5.372	56	6075	0.947	ug/l #	1
32) 1,1,1-Trichloroethane	5.318	97	1577	0.275	ug/l #	51
36) 1,1-Dichloropropene	5.372	75	22617	4.567	ug/l #	48
38) Carbon Tetrachloride	5.524	117	7373	1.420	ug/l	92
39) Methylcyclohexane	6.543	83	13564	2.285	ug/l #	1
42) 1,2-Dichloroethane	5.797	62	1207	0.217	ug/l #	74
44) Trichloroethene	6.543	130	1057695	297.572	ug/l	86
45) 1,2-Dichloropropane	6.540	63	3374	0.814	ug/l #	1
49) 1,4-Dioxane	6.987	88	1670	14.027	ug/l #	11
55) 1,1,2-Trichloroethane	8.401	97	3196	0.870	ug/l	91
76) 1,2,3-Trichloropropane	10.633	75	106135	15.598	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.633	75	106135	57.601	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.854	180	273	1.812	ug/l #	70
95) Naphthalene	14.102	128	1820	1.848	ug/l #	74
96) 1,2,3-Trichlorobenzene	14.340	180	359	1.253	ug/l #	61

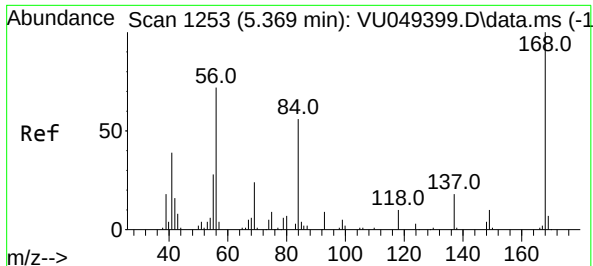
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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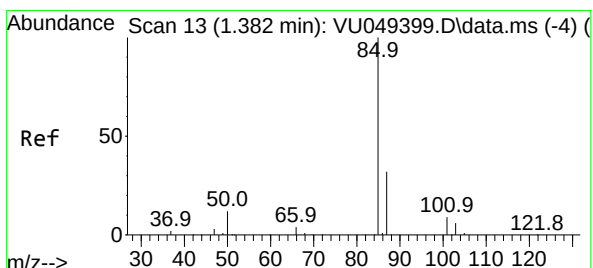
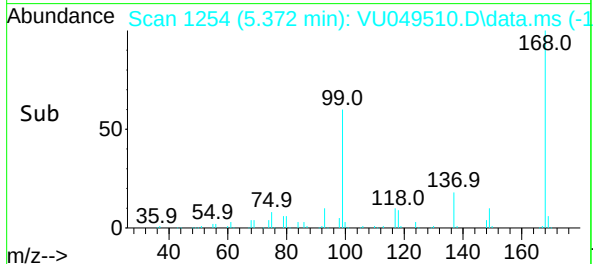
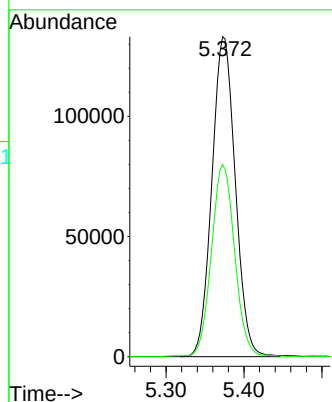
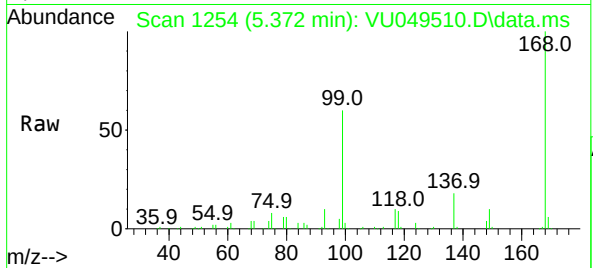




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.372 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU049510.D
Acq: 29 Jun 2022 14:13

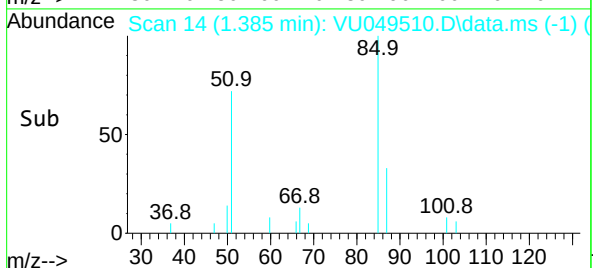
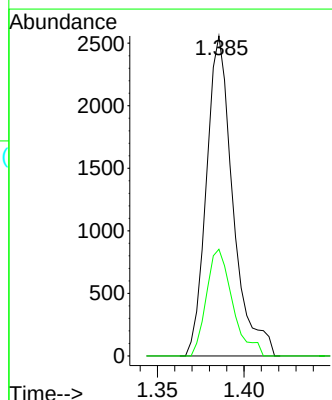
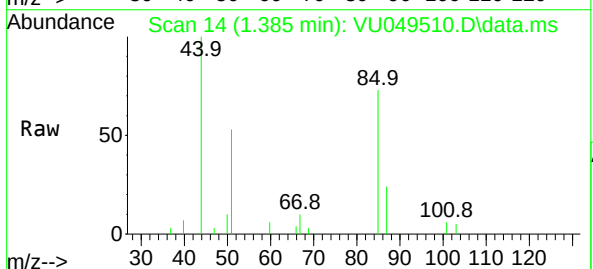
Instrument :
MSVOA_U
ClientSampleId :

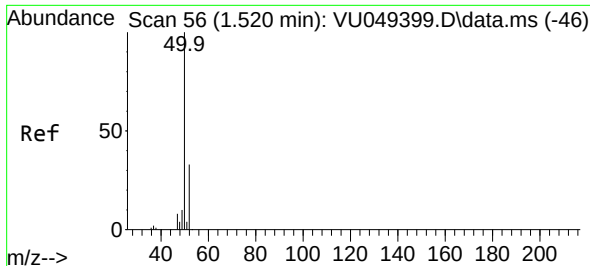
Tgt Ion:168 Resp: 277436
Ion Ratio Lower Upper
168 100
99 59.8 39.3 58.9#



#2
Dichlorodifluoromethane
Concen: 0.610 ug/l
RT: 1.385 min Scan# 14
Delta R.T. 0.004 min
Lab File: VU049510.D
Acq: 29 Jun 2022 14:13

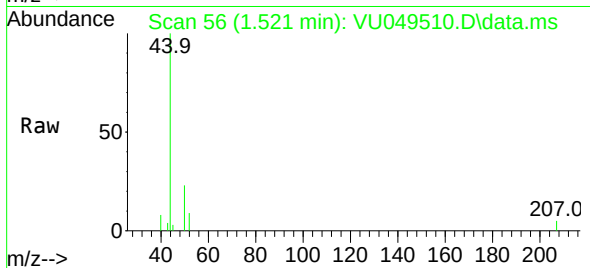
Tgt Ion: 85 Resp: 2720
Ion Ratio Lower Upper
85 100
87 33.3 16.4 49.2



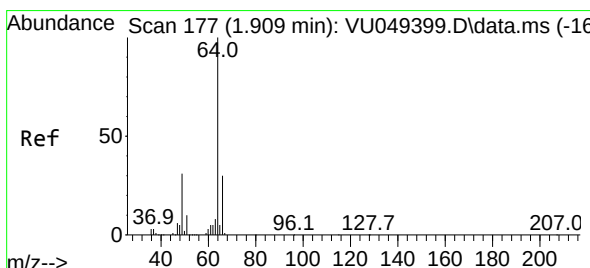
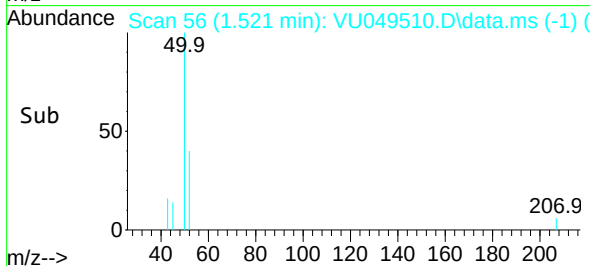
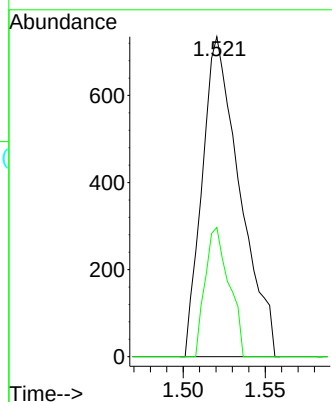


#3
Chloromethane
Concen: Below Cal
RT: 1.521 min Scan# 50
Delta R.T. 0.000 min
Lab File: VU049510.D
Acq: 29 Jun 2022 14:13

Instrument :
MSVOA_U
ClientSampleId :

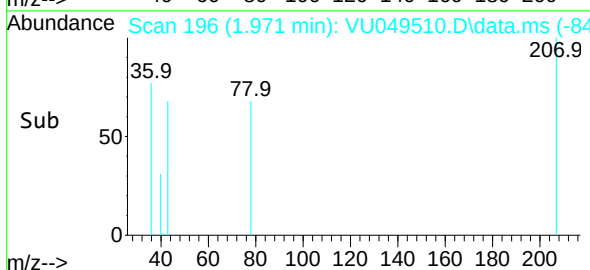
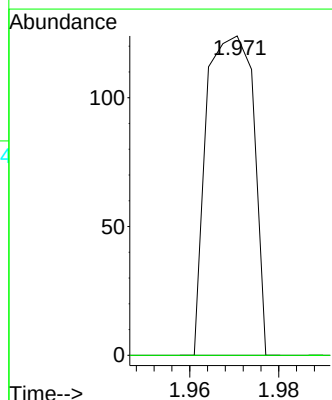
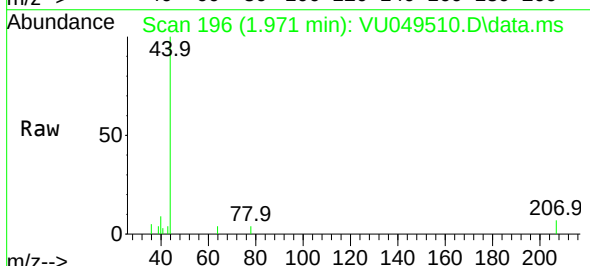


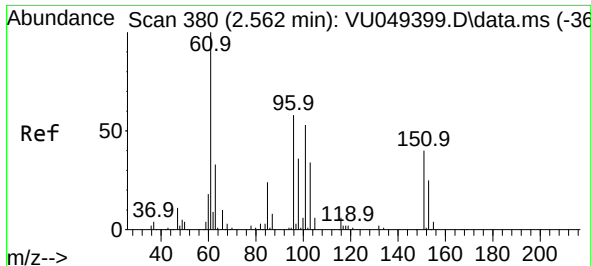
Tgt Ion: 50 Resp: 1169
Ion Ratio Lower Upper
50 100
52 40.4 27.4 41.2



#6
Chloroethane
Concen: 1.957 ug/l
RT: 1.971 min Scan# 196
Delta R.T. 0.062 min
Lab File: VU049510.D
Acq: 29 Jun 2022 14:13

Tgt Ion: 64 Resp: 90
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#

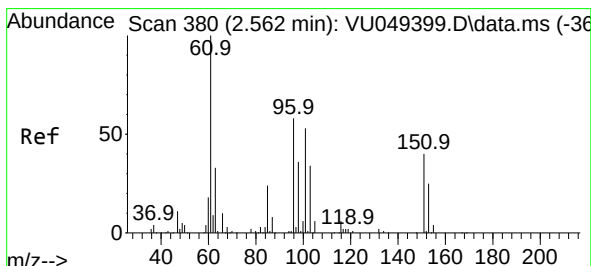
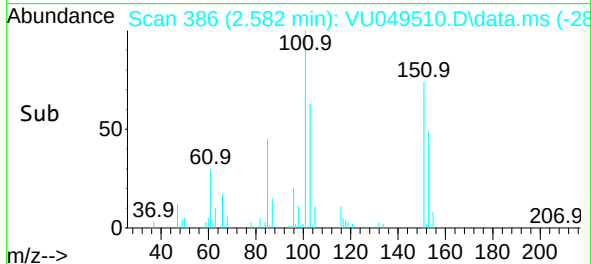
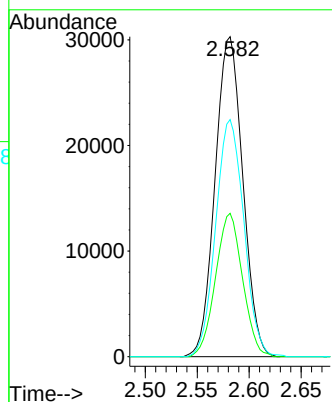
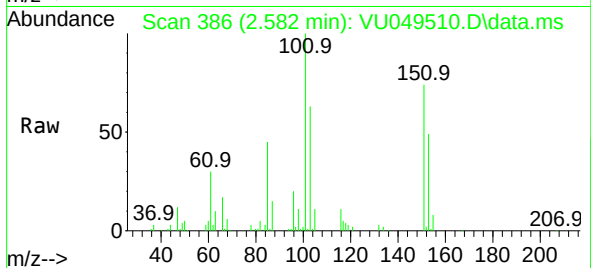




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 18.279 ug/l
 RT: 2.582 min Scan# 386
 Delta R.T. 0.020 min
 Lab File: VU049510.D
 Acq: 29 Jun 2022 14:13

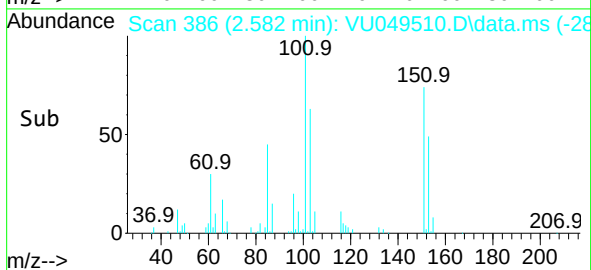
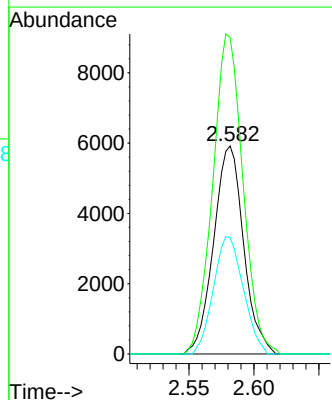
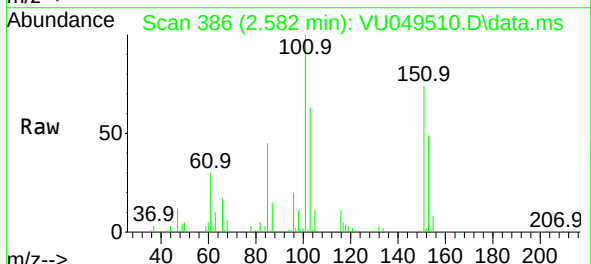
Instrument :
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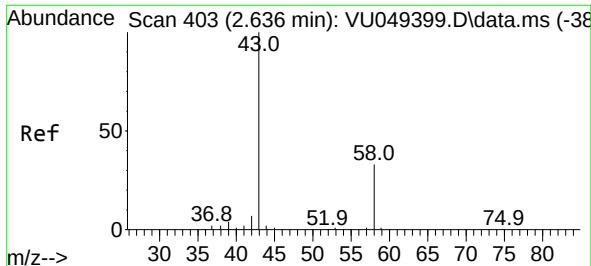
Tgt Ion:101 Resp: 56257
 Ion Ratio Lower Upper
 101 100
 85 43.6 33.9 50.9
 151 75.3 64.0 96.0



#12
 1,1-Dichloroethene
 Concen: 3.151 ug/l
 RT: 2.582 min Scan# 386
 Delta R.T. 0.020 min
 Lab File: VU049510.D
 Acq: 29 Jun 2022 14:13

Tgt Ion: 96 Resp: 9494
 Ion Ratio Lower Upper
 96 100
 61 152.2 122.2 183.2
 98 56.0 50.7 76.1

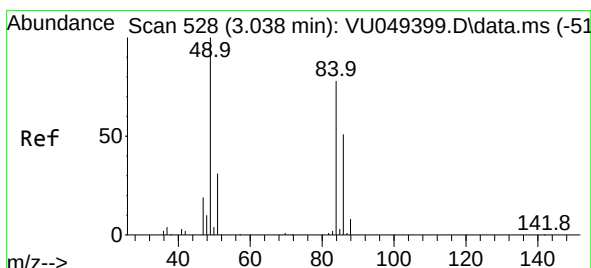
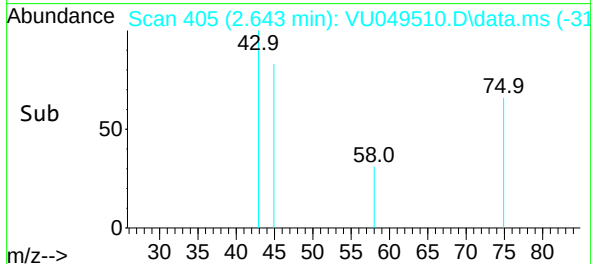
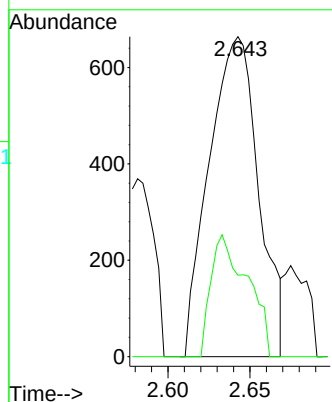
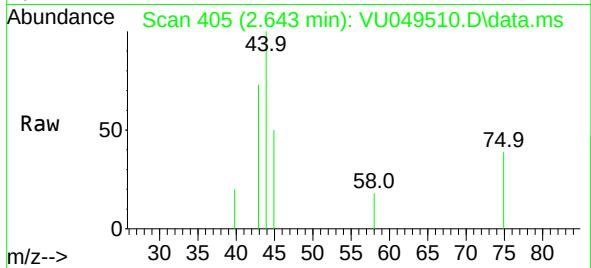




#16
Acetone
Concen: 0.647 ug/l
RT: 2.643 min Scan# 40
Delta R.T. 0.007 min
Lab File: VU049510.D
Acq: 29 Jun 2022 14:13

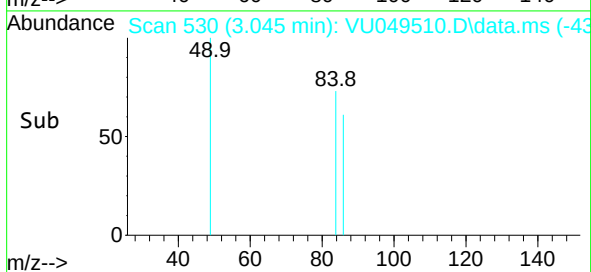
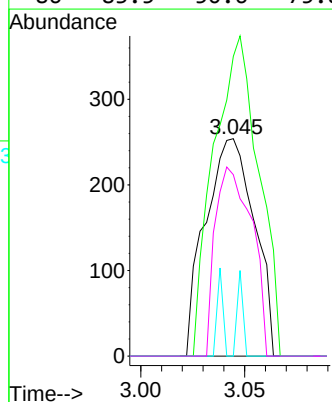
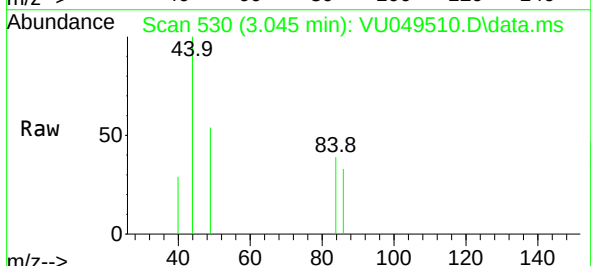
Instrument :
MSVOA_U
ClientSampleId :

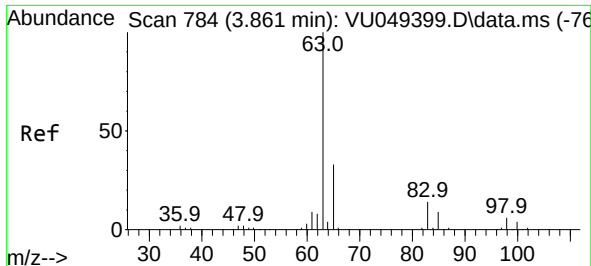
Tgt Ion: 43 Resp: 1395
Ion Ratio Lower Upper
43 100
58 25.5 27.5 41.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 3.045 min Scan# 530
Delta R.T. 0.007 min
Lab File: VU049510.D
Acq: 29 Jun 2022 14:13

Tgt Ion: 84 Resp: 416
Ion Ratio Lower Upper
84 100
49 137.8 86.6 129.8#
51 0.0 26.6 40.0#
86 83.5 50.6 75.8#

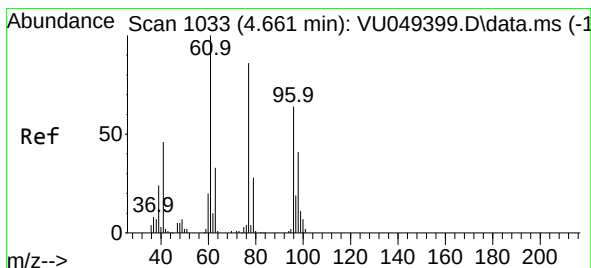
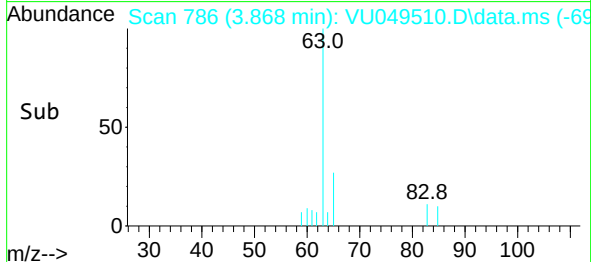
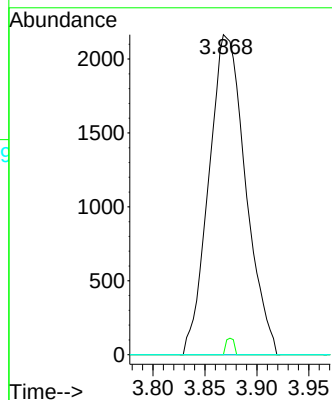
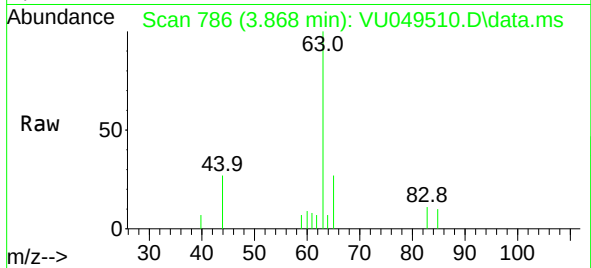




#24
1,1-Dichloroethane
Concen: 0.797 ug/l
RT: 3.868 min Scan# 71
Delta R.T. 0.007 min
Lab File: VU049510.D
Acq: 29 Jun 2022 14:13

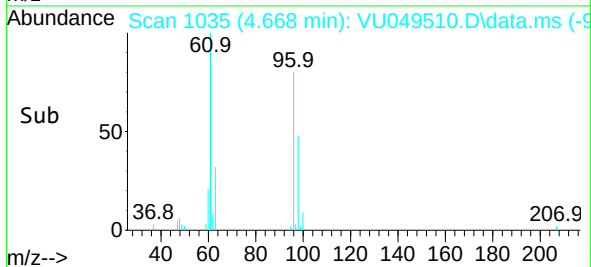
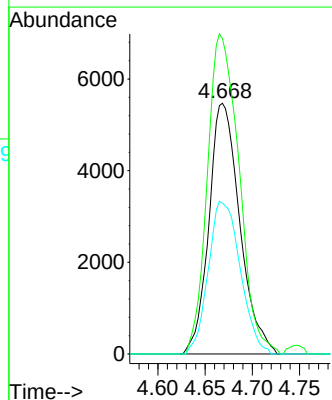
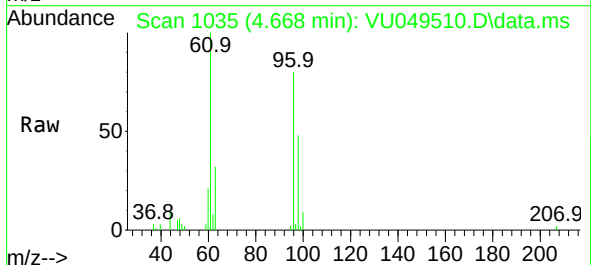
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MSVOA_U
ClientSampleId :

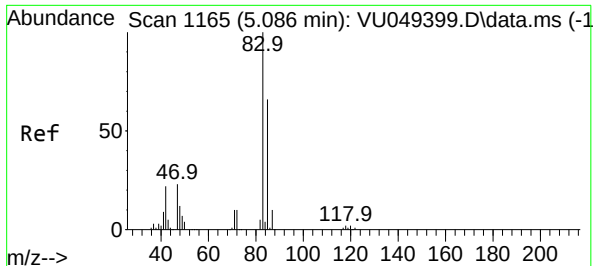
Tgt Ion: 63 Resp: 5323
Ion Ratio Lower Upper
63 100
98 0.0 3.6 10.9#
100 0.0 2.4 7.2#



#27
cis-1,2-Dichloroethene
Concen: 3.312 ug/l
RT: 4.668 min Scan# 1035
Delta R.T. 0.007 min
Lab File: VU049510.D
Acq: 29 Jun 2022 14:13

Tgt Ion: 96 Resp: 12430
Ion Ratio Lower Upper
96 100
61 130.5 0.0 271.6
98 62.9 0.0 128.2





#30

Chloroform

Concen: 1.475 ug/l

RT: 5.089 min Scan# 1166

Delta R.T. 0.004 min

Lab File: VU049510.D

Acq: 29 Jun 2022 14:13

Instrument :

MSVOA_U

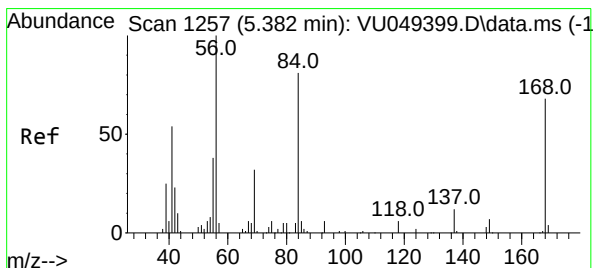
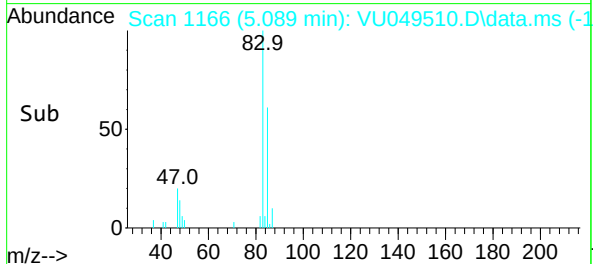
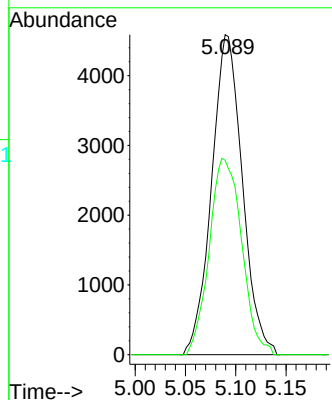
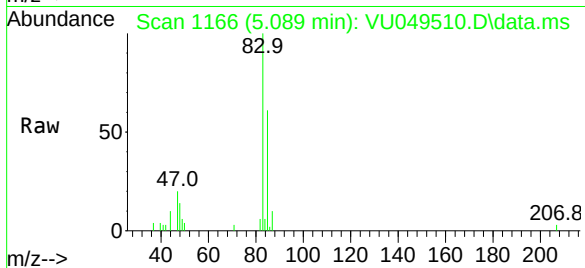
ClientSampleId :

Tgt Ion: 83 Resp: 9748

Ion Ratio Lower Upper

83 100

85 60.7 51.2 76.8



#31

Cyclohexane

Concen: 0.947 ug/l

RT: 5.372 min Scan# 1254

Delta R.T. -0.009 min

Lab File: VU049510.D

Acq: 29 Jun 2022 14:13

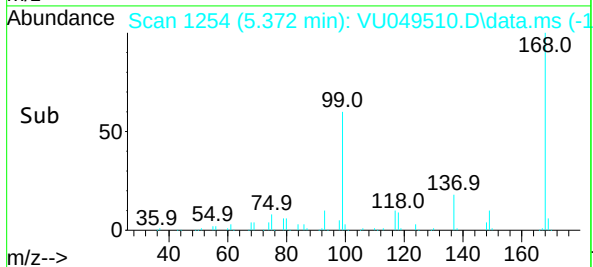
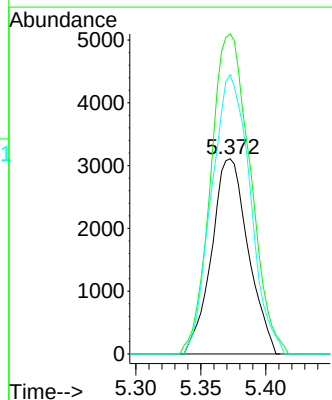
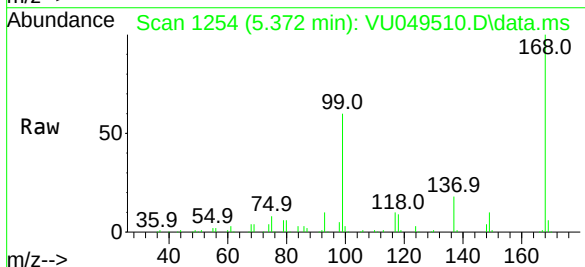
Tgt Ion: 56 Resp: 6075

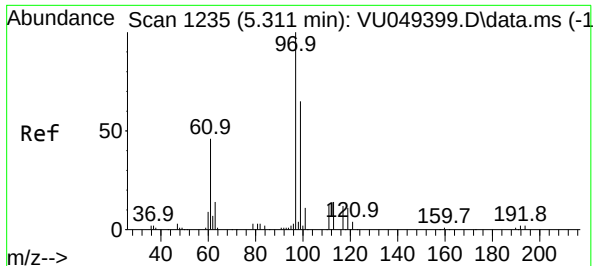
Ion Ratio Lower Upper

56 100

69 163.9 27.8 41.8#

84 142.9 74.2 111.4#





#32

1,1,1-Trichloroethane

Concen: 0.275 ug/l

RT: 5.318 min Scan# 1

Delta R.T. 0.007 min

Lab File: VU049510.D

Acq: 29 Jun 2022 14:13

Instrument :

MSVOA_U

ClientSampleId :

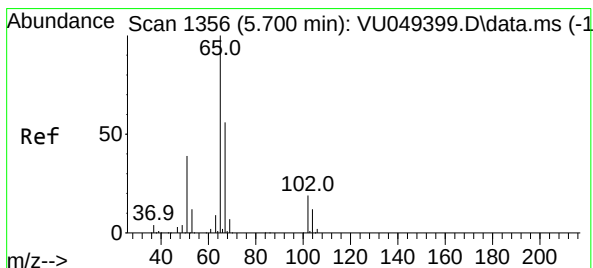
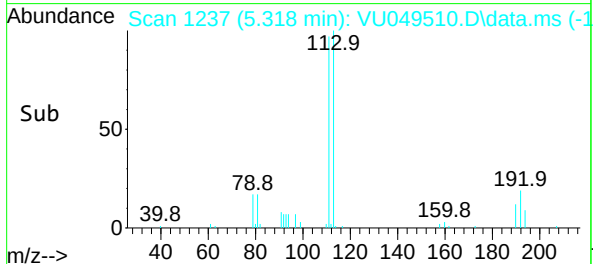
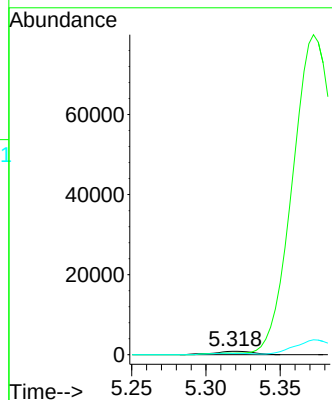
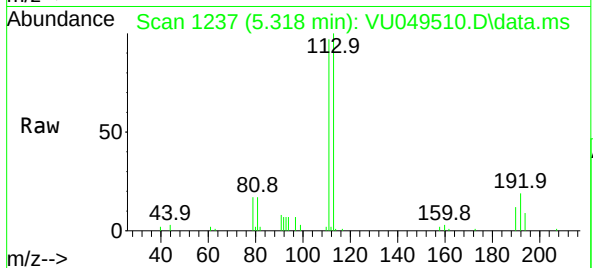
Tgt Ion: 97 Resp: 1577

Ion Ratio Lower Upper

97 100

99 0.0 51.8 77.6#

61 44.4 35.1 52.7



#33

1,2-Dichloroethane-d4

Concen: 45.183 ug/l

RT: 5.704 min Scan# 1357

Delta R.T. 0.004 min

Lab File: VU049510.D

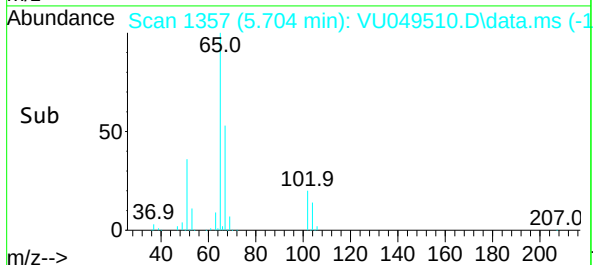
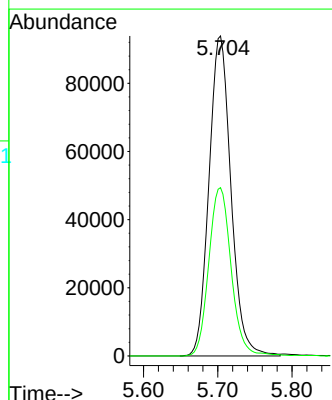
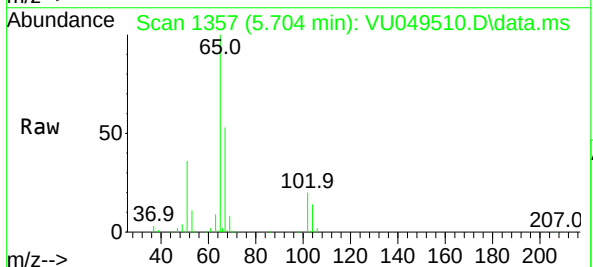
Acq: 29 Jun 2022 14:13

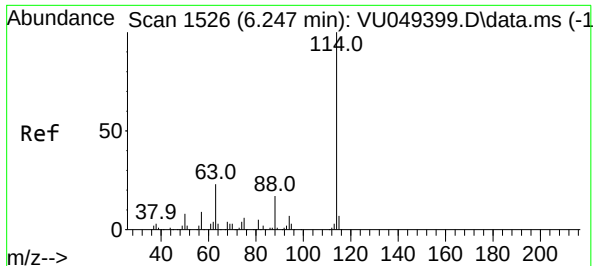
Tgt Ion: 65 Resp: 193054

Ion Ratio Lower Upper

65 100

67 53.5 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 11

Delta R.T. 0.004 min

Lab File: VU049510.D

Acq: 29 Jun 2022 14:13

Instrument :

MSVOA_U

ClientSampleId :

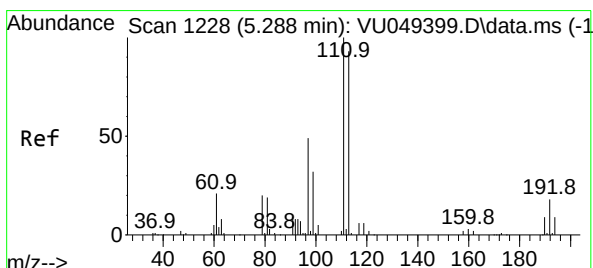
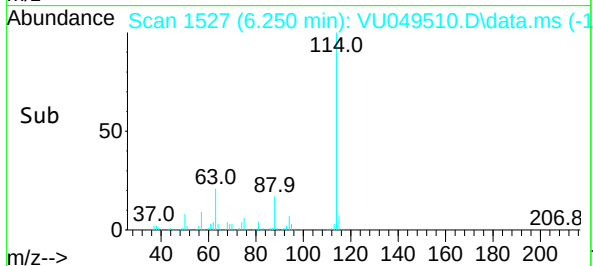
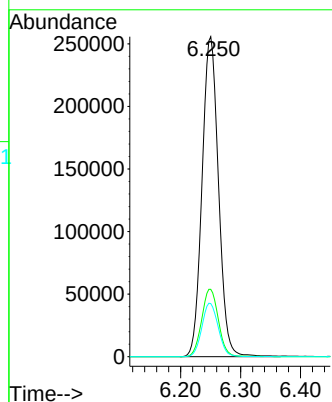
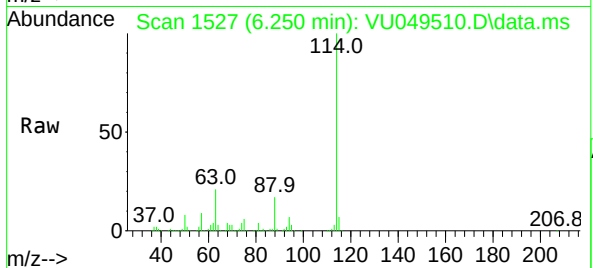
Tgt Ion:114 Resp: 488186

Ion Ratio Lower Upper

114 100

63 21.1 0.0 37.8

88 16.6 0.0 29.2



#35

Dibromofluoromethane

Concen: 44.883 ug/l

RT: 5.289 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VU049510.D

Acq: 29 Jun 2022 14:13

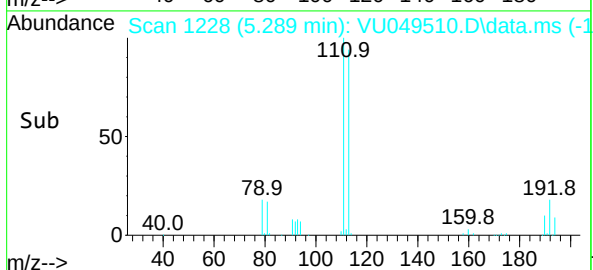
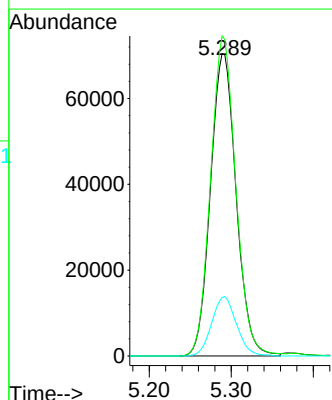
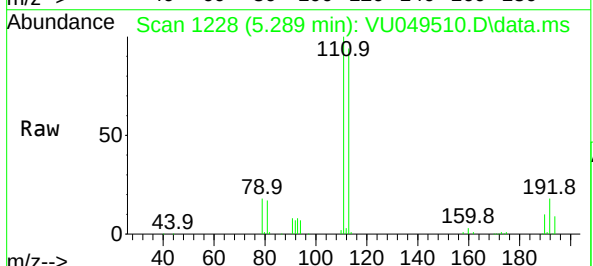
Tgt Ion:113 Resp: 153296

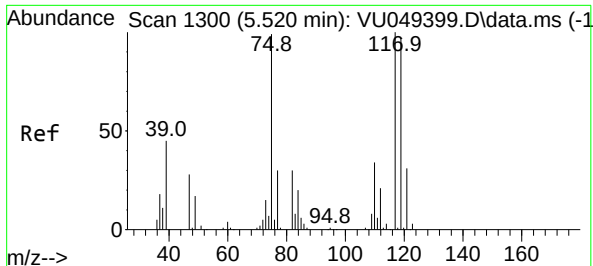
Ion Ratio Lower Upper

113 100

111 104.2 82.1 123.1

192 18.9 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.567 ug/l

RT: 5.372 min Scan# 11

Delta R.T. -0.147 min

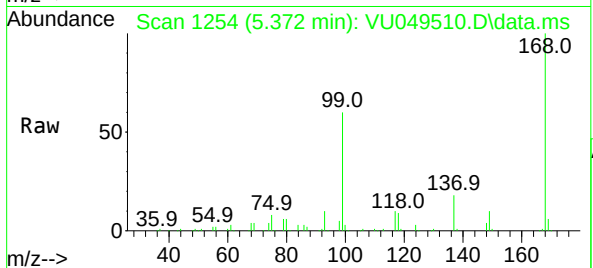
Lab File: VU049510.D

Acq: 29 Jun 2022 14:13

Instrument :

MSVOA_U

ClientSampleId :



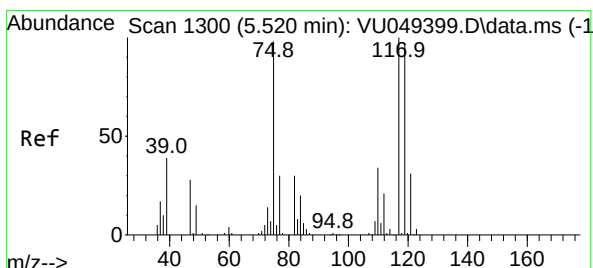
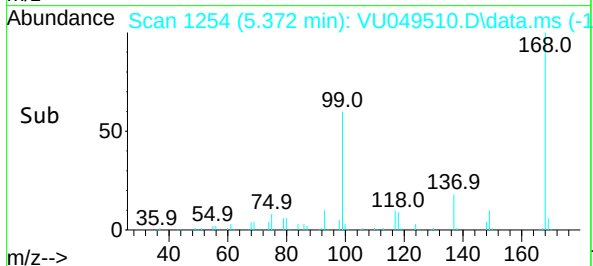
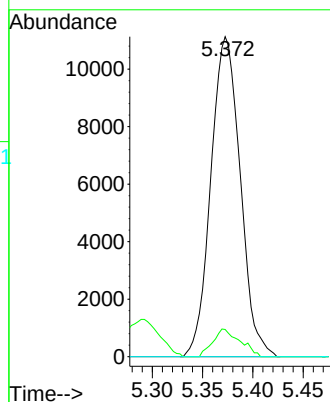
Tgt Ion: 75 Resp: 22617

Ion Ratio Lower Upper

75 100

110 8.0 18.4 55.2#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 1.420 ug/l

RT: 5.524 min Scan# 1301

Delta R.T. 0.004 min

Lab File: VU049510.D

Acq: 29 Jun 2022 14:13

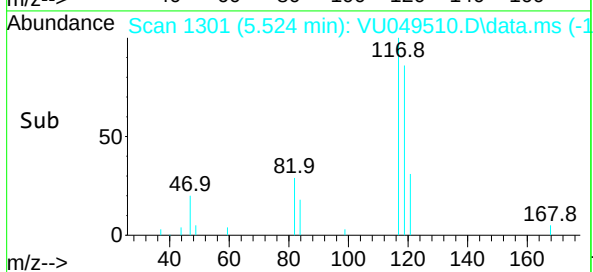
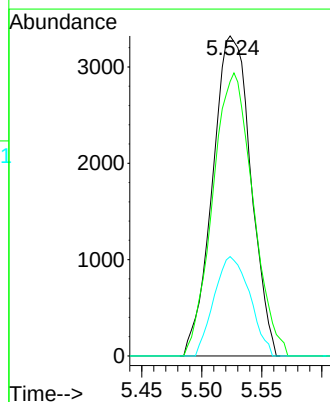
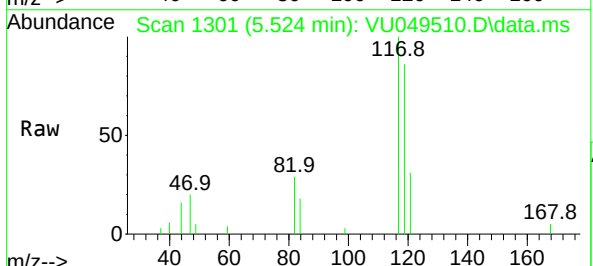
Tgt Ion: 117 Resp: 7373

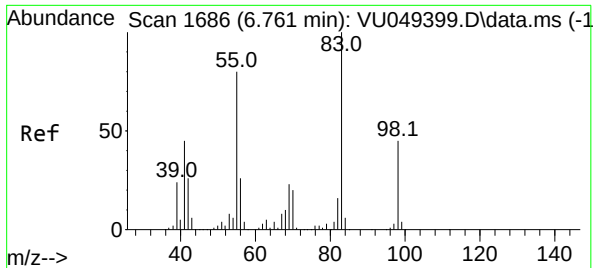
Ion Ratio Lower Upper

117 100

119 85.7 76.8 115.2

121 31.1 24.7 37.1





#39

Methylcyclohexane

Concen: 2.285 ug/l

RT: 6.543 min Scan# 1

Delta R.T. -0.218 min

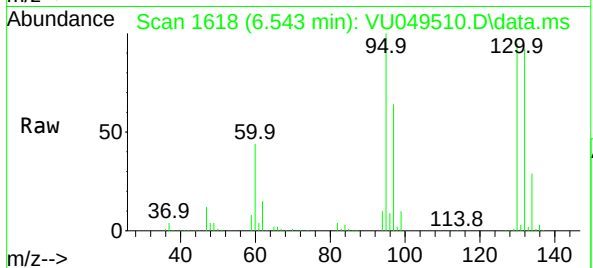
Lab File: VU049510.D

Acq: 29 Jun 2022 14:13

Instrument :

MSVOA_U

ClientSampleId :



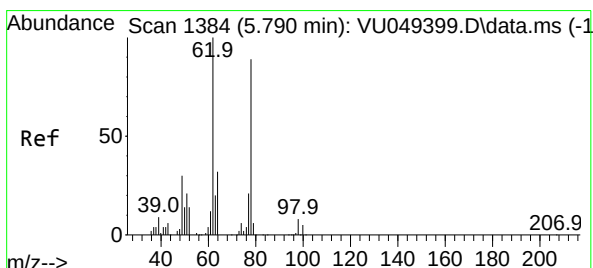
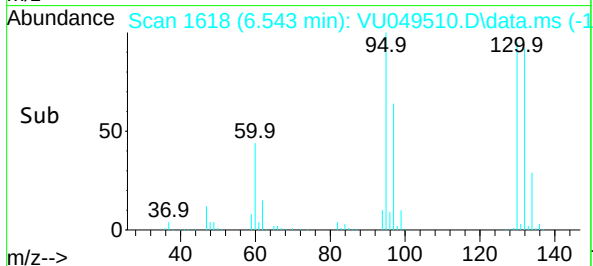
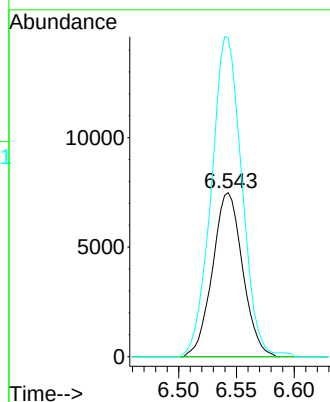
Tgt Ion: 83 Resp: 13564

Ion Ratio Lower Upper

83 100

55 0.0 55.3 82.9#

98 194.4 37.3 55.9#



#42

1,2-Dichloroethane

Concen: 0.217 ug/l

RT: 5.797 min Scan# 1386

Delta R.T. 0.007 min

Lab File: VU049510.D

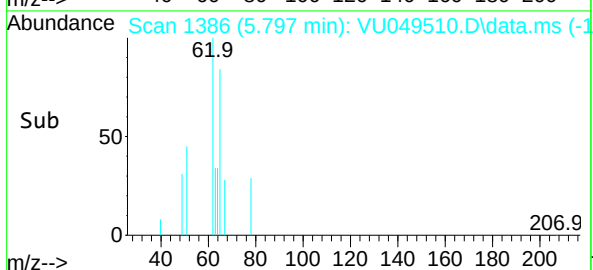
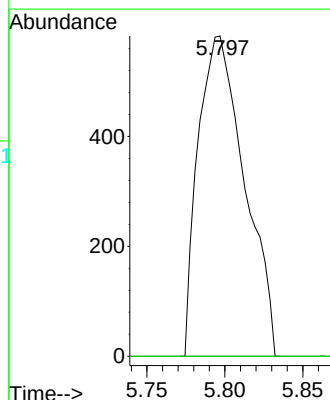
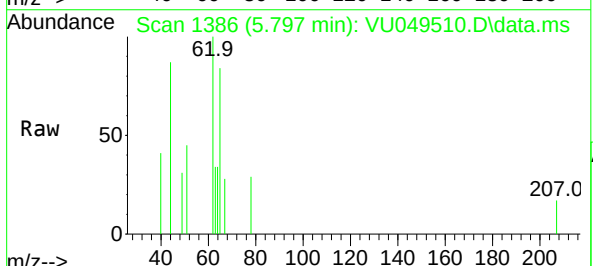
Acq: 29 Jun 2022 14:13

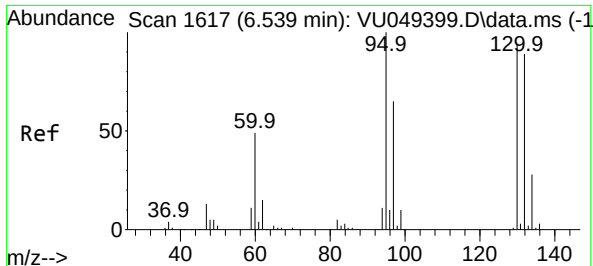
Tgt Ion: 62 Resp: 1207

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.6

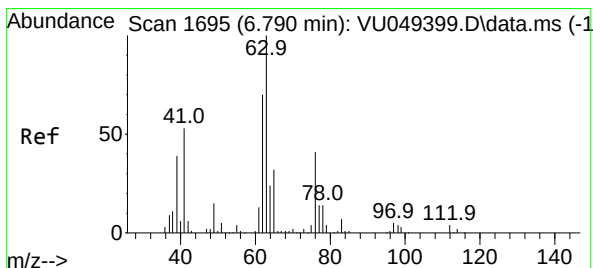
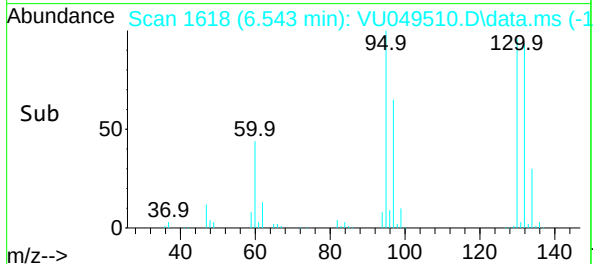
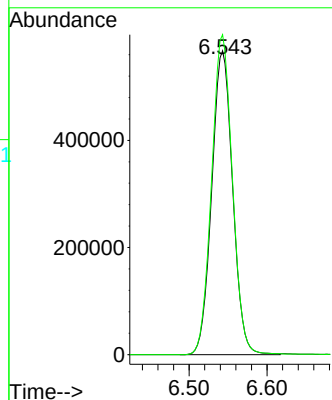
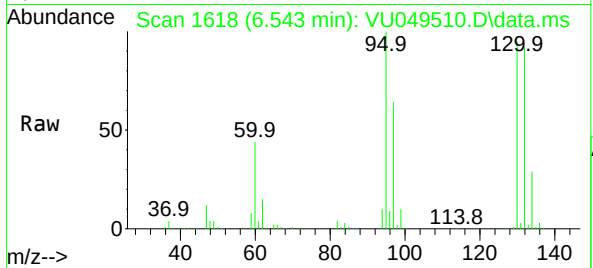




#44
 Trichloroethene
 Concen: 297.572 ug/l
 RT: 6.543 min Scan# 1617
 Delta R.T. 0.004 min
 Lab File: VU049510.D
 Acq: 29 Jun 2022 14:13

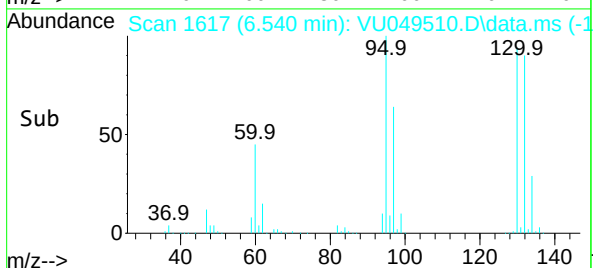
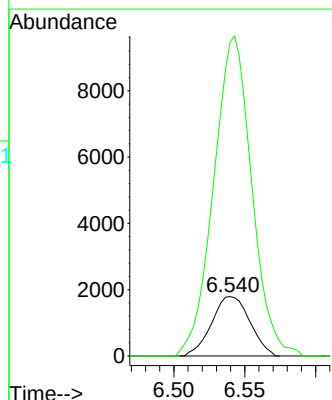
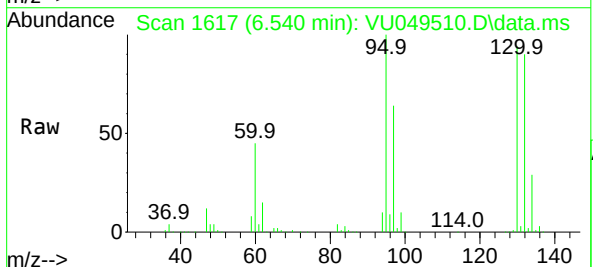
Instrument :
 MSVOA_U
 ClientSampleId :

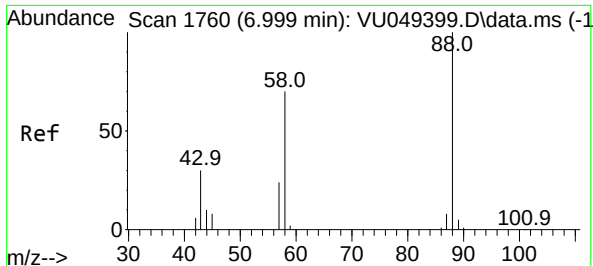
Tgt Ion:130 Resp: 1057695
 Ion Ratio Lower Upper
 130 100
 95 105.3 0.0 184.6



#45
 1,2-Dichloropropane
 Concen: 0.814 ug/l
 RT: 6.540 min Scan# 1617
 Delta R.T. -0.250 min
 Lab File: VU049510.D
 Acq: 29 Jun 2022 14:13

Tgt Ion: 63 Resp: 3374
 Ion Ratio Lower Upper
 63 100
 65 520.3 25.0 37.4#





#49

1,4-Dioxane

Concen: 14.027 ug/l

RT: 6.987 min Scan# 1

Delta R.T. -0.012 min

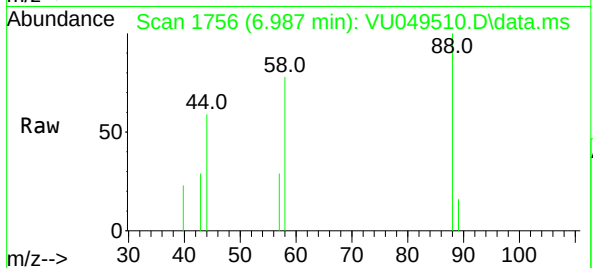
Lab File: VU049510.D

Acq: 29 Jun 2022 14:13

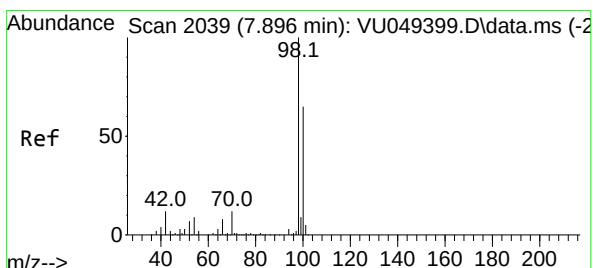
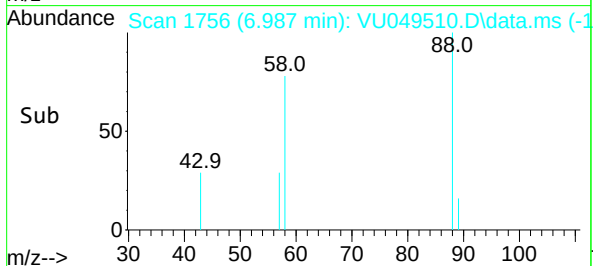
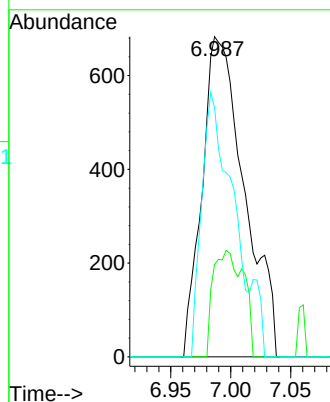
Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:	88	Resp:	1670
Ion	Ratio	Lower	Upper
88	100		
43	23.8	0.0	0.0#
58	59.4	15.4	23.0#



#50

Toluene-d8

Concen: 48.069 ug/l

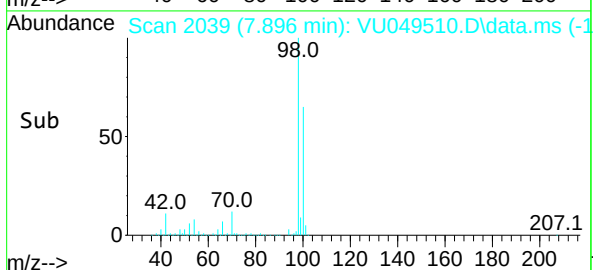
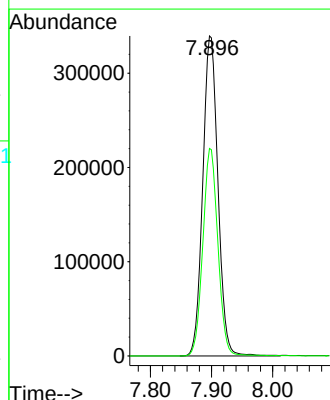
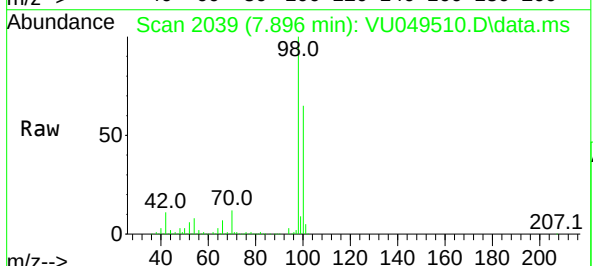
RT: 7.896 min Scan# 2039

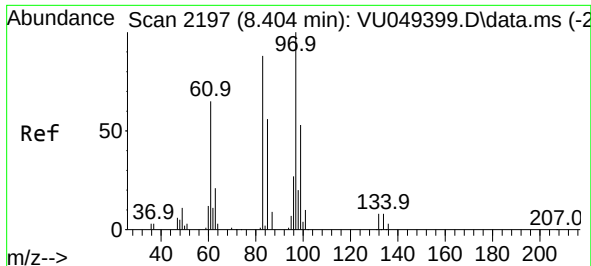
Delta R.T. 0.000 min

Lab File: VU049510.D

Acq: 29 Jun 2022 14:13

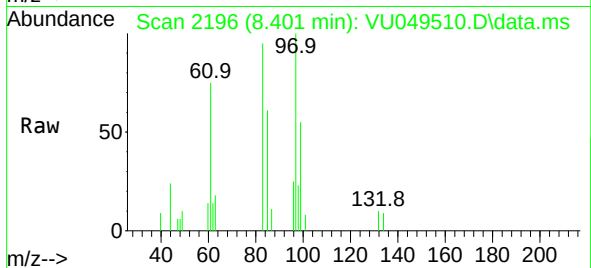
Tgt Ion:	98	Resp:	585584
Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.7	77.5



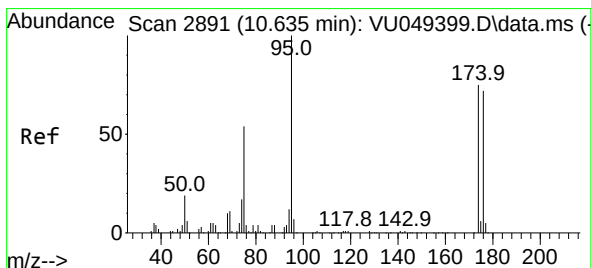
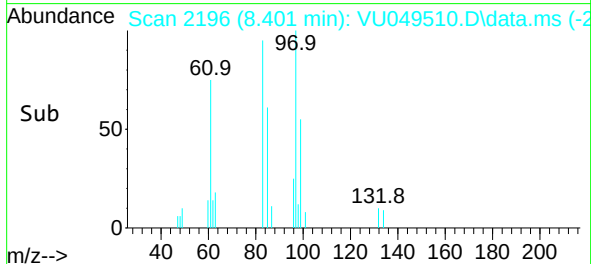
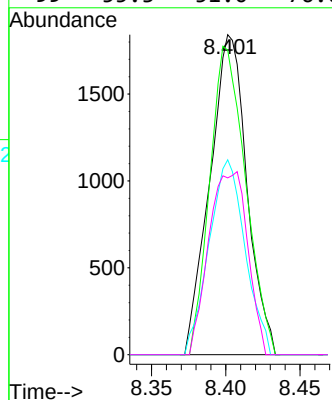


#55
1,1,2-Trichloroethane
Concen: 0.870 ug/l
RT: 8.401 min Scan# 2196
Delta R.T. -0.003 min
Lab File: VU049510.D
Acq: 29 Jun 2022 14:13

Instrument :
MSVOA_U
ClientSampleId :

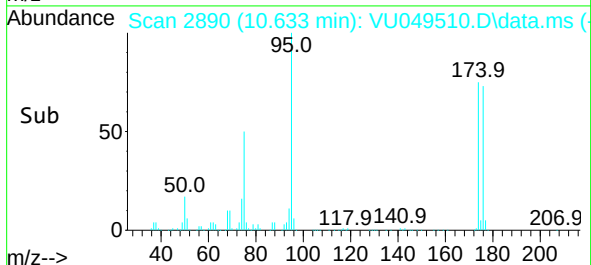
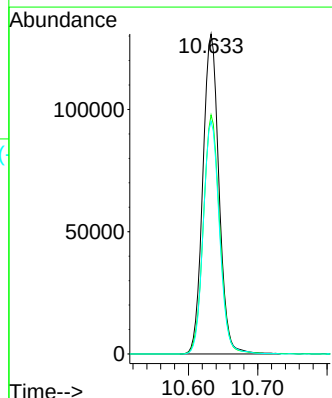
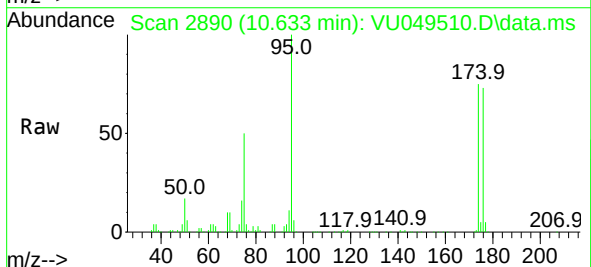


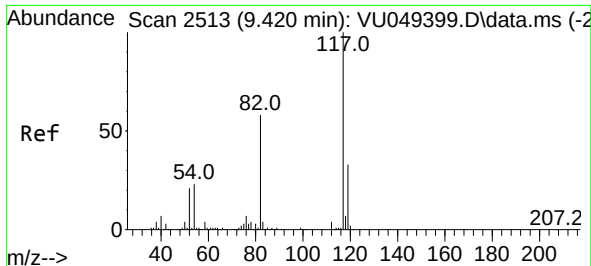
Tgt Ion: 97	Resp: 3196
Ion Ratio	Lower Upper
97 100	
83 95.2	70.2 105.4
85 60.9	44.6 66.8
99 55.3	51.0 76.6



#62
4-Bromofluorobenzene
Concen: 45.359 ug/l
RT: 10.633 min Scan# 2890
Delta R.T. -0.003 min
Lab File: VU049510.D
Acq: 29 Jun 2022 14:13

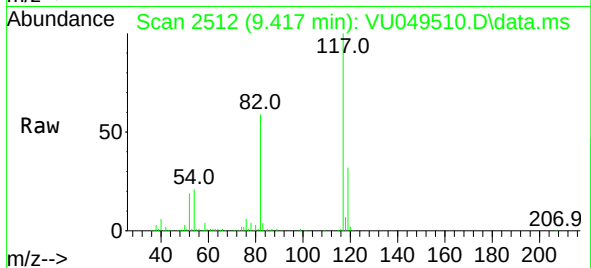
Tgt Ion: 95	Resp: 211670
Ion Ratio	Lower Upper
95 100	
174 75.2	0.0 182.0
176 73.0	0.0 177.8



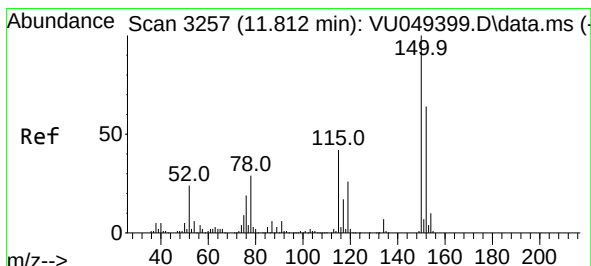
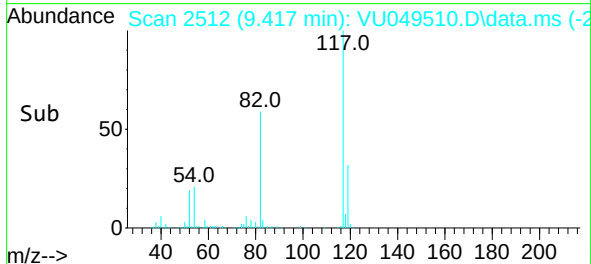
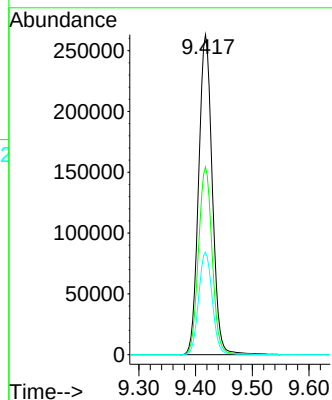


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.417 min Scan# 2512
Delta R.T. -0.003 min
Lab File: VU049510.D
Acq: 29 Jun 2022 14:13

Instrument :
MSVOA_U
ClientSampleId :

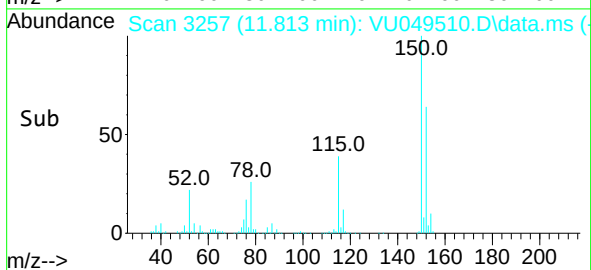
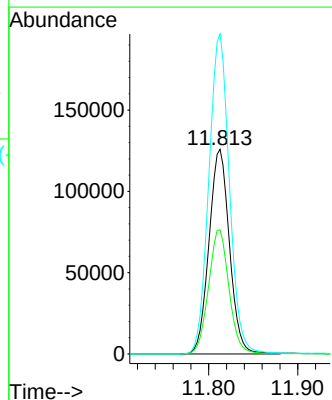
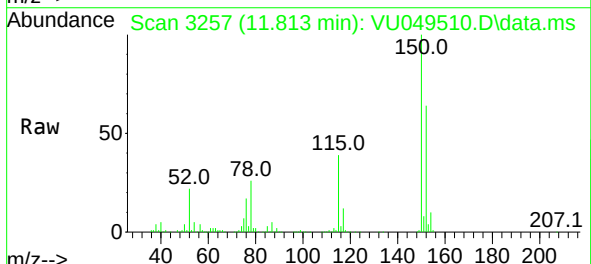


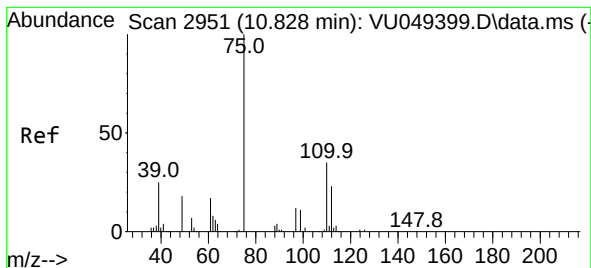
Tgt Ion:117 Resp: 439523
Ion Ratio Lower Upper
117 100
82 58.6 41.7 62.5
119 32.0 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.813 min Scan# 3257
Delta R.T. 0.000 min
Lab File: VU049510.D
Acq: 29 Jun 2022 14:13

Tgt Ion:152 Resp: 200726
Ion Ratio Lower Upper
152 100
115 60.6 37.0 110.9
150 157.1 0.0 342.2





#76

1,2,3-Trichloropropane

Concen: 15.598 ug/l

RT: 10.633 min Scan# 2890

Delta R.T. -0.196 min

Lab File: VU049510.D

Acq: 29 Jun 2022 14:13

Instrument :

MSVOA_U

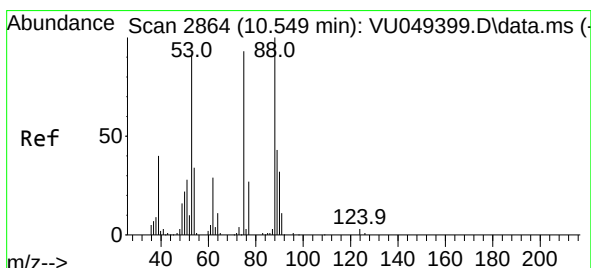
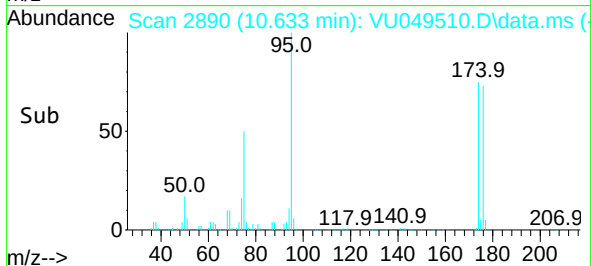
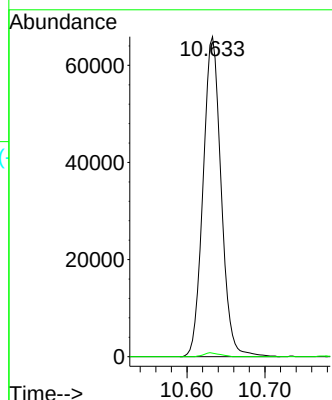
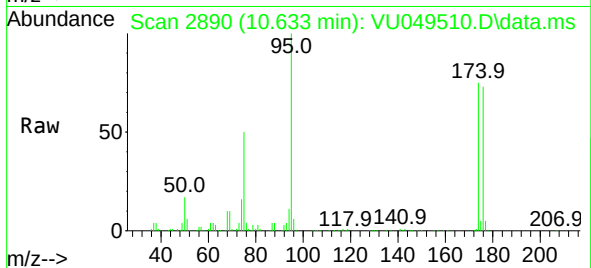
ClientSampleId :

Tgt Ion: 75 Resp: 106135

Ion Ratio Lower Upper

75 100

77 1.1 15.8 47.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.601 ug/l

RT: 10.633 min Scan# 2890

Delta R.T. 0.084 min

Lab File: VU049510.D

Acq: 29 Jun 2022 14:13

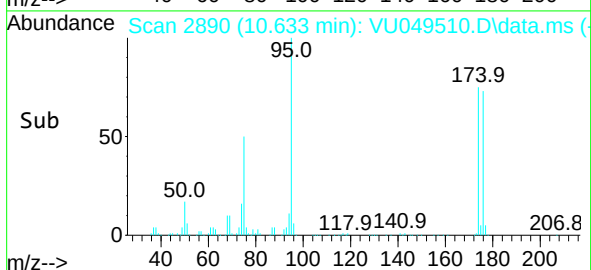
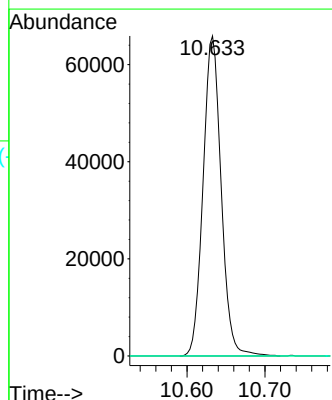
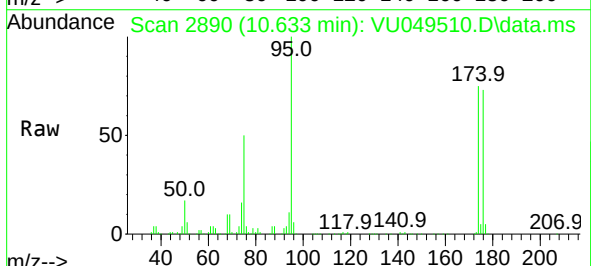
Tgt Ion: 75 Resp: 106135

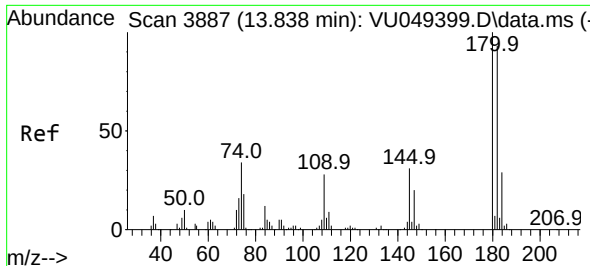
Ion Ratio Lower Upper

75 100

53 0.0 69.2 103.8#

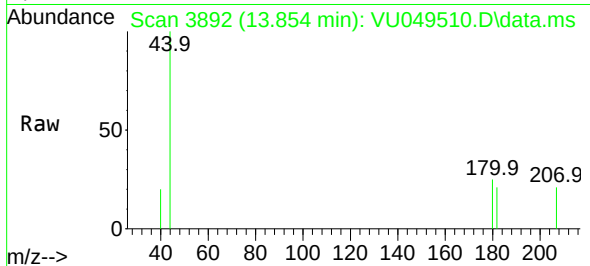
89 0.0 37.0 55.6#



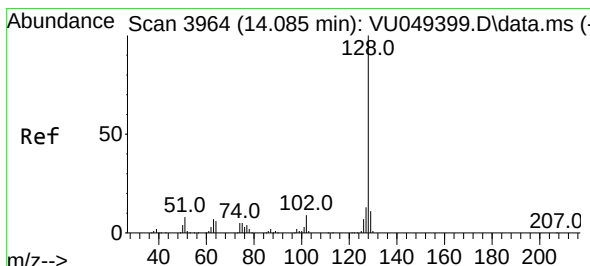
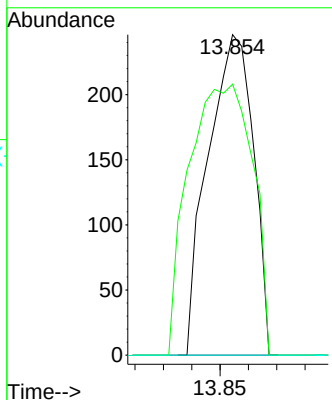
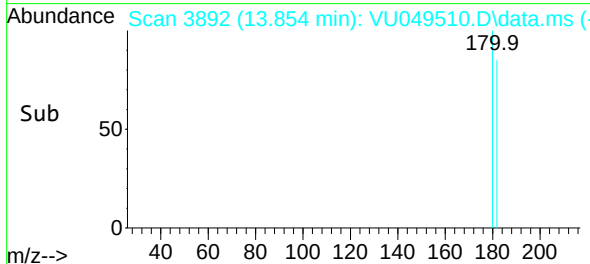


#93
 1,2,4-Trichlorobenzene
 Concen: 1.812 ug/l
 RT: 13.854 min Scan# 31
 Delta R.T. 0.017 min
 Lab File: VU049510.D
 Acq: 29 Jun 2022 14:13

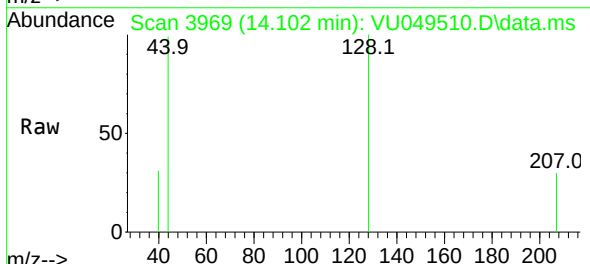
Instrument :
 MSVOA_U
 ClientSampleId :



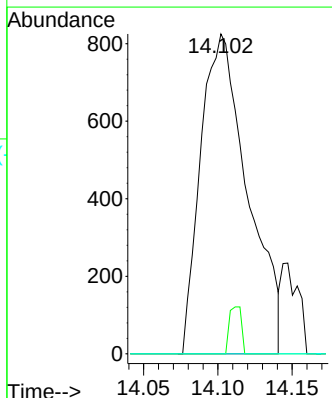
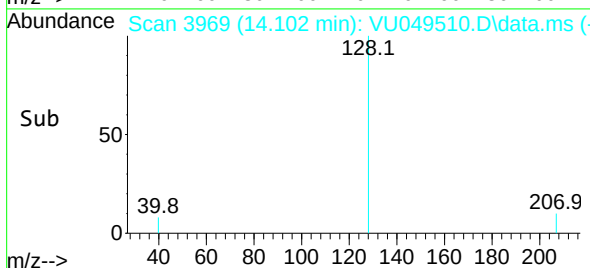
Tgt Ion:180 Resp: 273
 Ion Ratio Lower Upper
 180 100
 182 118.7 47.9 143.6
 145 0.0 14.0 41.9#

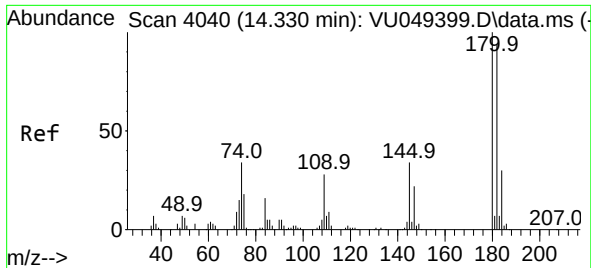


#95
 Naphthalene
 Concen: 1.848 ug/l
 RT: 14.102 min Scan# 3969
 Delta R.T. 0.017 min
 Lab File: VU049510.D
 Acq: 29 Jun 2022 14:13



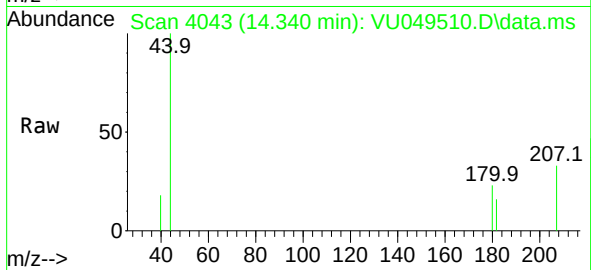
Tgt Ion:128 Resp: 1820
 Ion Ratio Lower Upper
 128 100
 127 3.7 10.3 15.5#
 129 0.0 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.253 ug/l
 RT: 14.340 min Scan# 40
 Delta R.T. 0.010 min
 Lab File: VU049510.D
 Acq: 29 Jun 2022 14:13

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:180 Resp: 359
 Ion Ratio Lower Upper
 180 100
 182 63.8 48.4 145.0
 145 0.0 14.8 44.4#

