

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU062922\
 Data File : VU049507.D
 Acq On : 29 Jun 2022 13:03
 Operator : SY/MD
 Sample : N3482-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

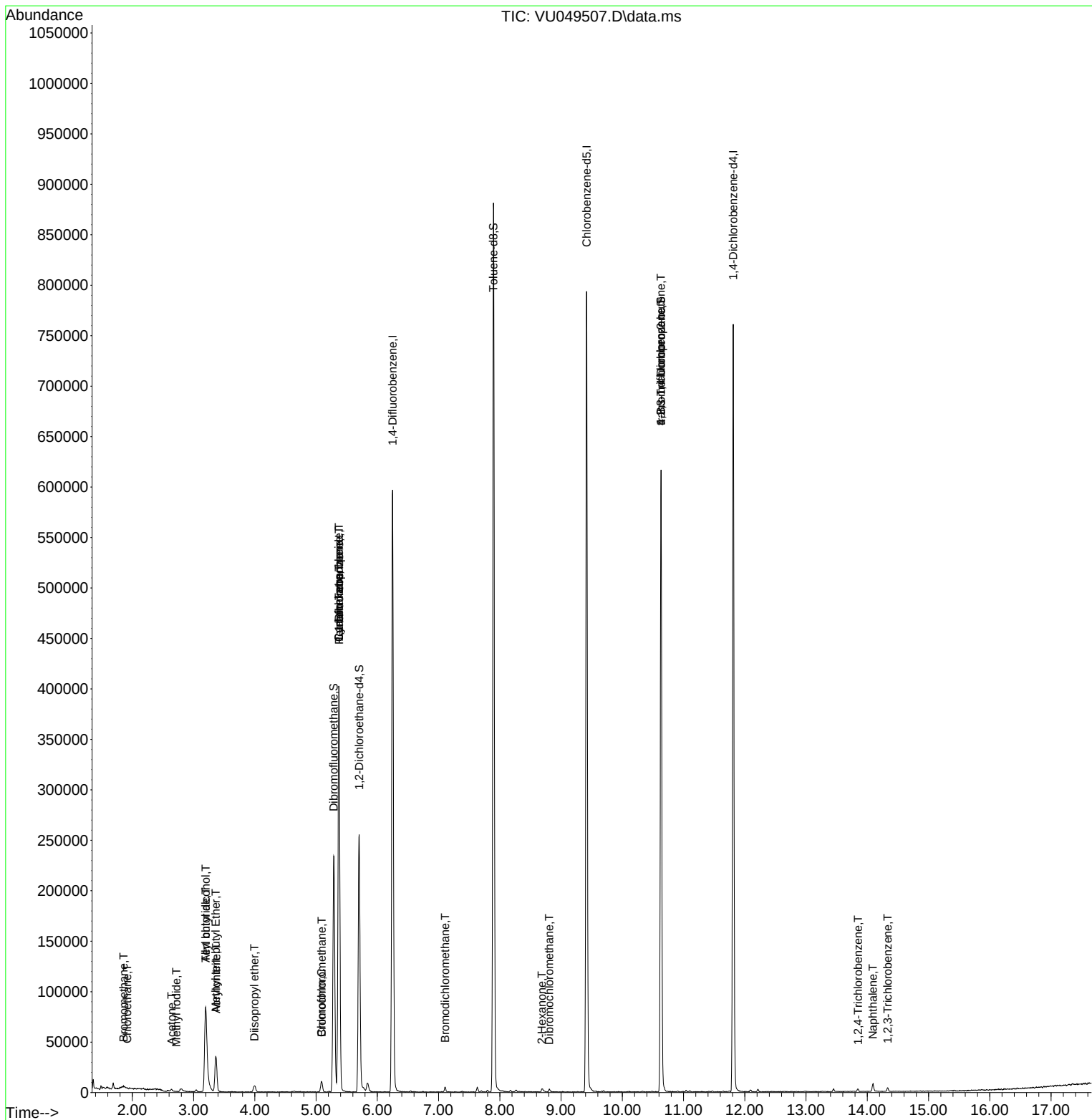
Quant Time: Jun 30 00:48:13 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U062722W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 28 10:35:43 2022
 Response via : Initial Calibration

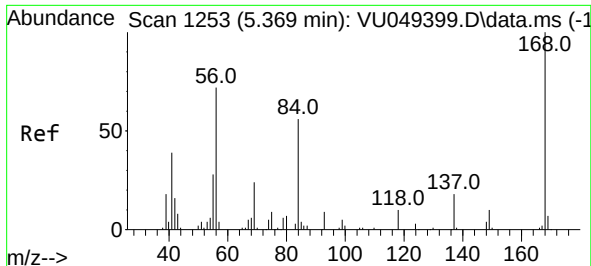
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.375	168	280713	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.250	114	491908	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.417	117	443947	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	203011	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	191654	44.332	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	88.660%
35) Dibromofluoromethane	5.288	113	155197	45.096	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	90.200%
50) Toluene-d8	7.896	98	585518	47.700	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	95.400%
62) 4-Bromofluorobenzene	10.632	95	211812	45.046	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	90.100%
Target Compounds						
					Qvalue	
3) Chloromethane	1.520	50	1393	Below Cal	#	83
5) Bromomethane	1.858	94	315	0.223	ug/l #	75
6) Chloroethane	1.916	64	107	1.964	ug/l #	44
10) Methyl Iodide	2.719	142	119	7.546	ug/l #	43
11) Tert butyl alcohol	3.199	59	141546	139.885	ug/l #	54
14) Allyl chloride	3.199	41	16375	2.657	ug/l #	56
15) Acrylonitrile	3.369	53	494	0.203	ug/l #	22
16) Acetone	2.642	43	3156	1.448	ug/l #	87
19) Methyl tert-butyl Ether	3.363	73	40291	3.553	ug/l	99
20) Methylene Chloride	3.051	84	281	Below Cal	#	64
22) Diisopropyl ether	3.996	45	7344	0.624	ug/l #	53
28) Bromochloromethane	5.092	49	659	0.223	ug/l #	4
30) Chloroform	5.089	83	9627	1.440	ug/l	99
31) Cyclohexane	5.372	56	5583	0.860	ug/l #	1
36) 1,1-Dichloropropene	5.372	75	22606	4.530	ug/l #	48
38) Carbon Tetrachloride	5.372	117	29065	5.554	ug/l #	16
47) Bromodichloromethane	7.108	83	3430	0.640	ug/l	91
59) 2-Hexanone	8.687	43	2138	0.407	ug/l	71
60) Dibromochloromethane	8.809	129	1428	0.371	ug/l	85
76) 1,2,3-Trichloropropane	10.632	75	106688	15.503	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.632	75	106688	57.250	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.848	180	1175	2.003	ug/l	97
95) Naphthalene	14.092	128	7822	2.211	ug/l	97
96) 1,2,3-Trichlorobenzene	14.333	180	1653	1.522	ug/l	90

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U062722W.M
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QLast Update : Tue Jun 28 10:35:43 2022
Response via : Initial Calibration

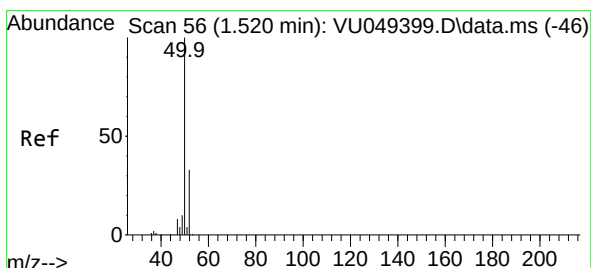
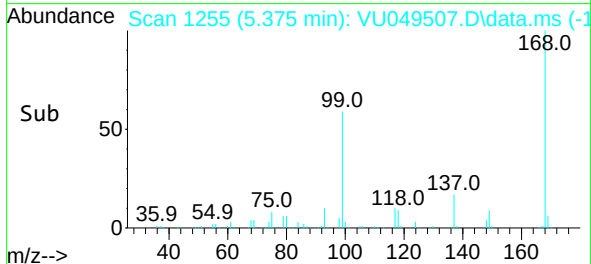
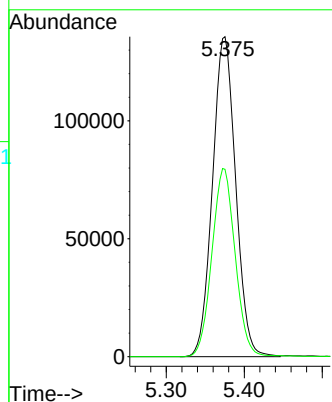
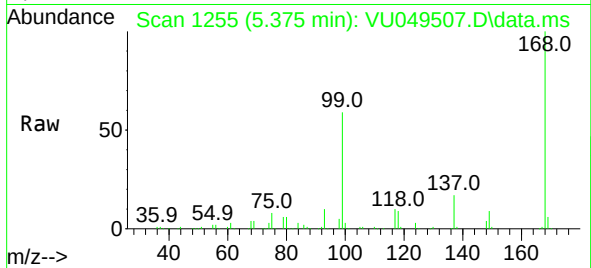




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.375 min Scan# 11
Delta R.T. 0.006 min
Lab File: VU049507.D
Acq: 29 Jun 2022 13:03

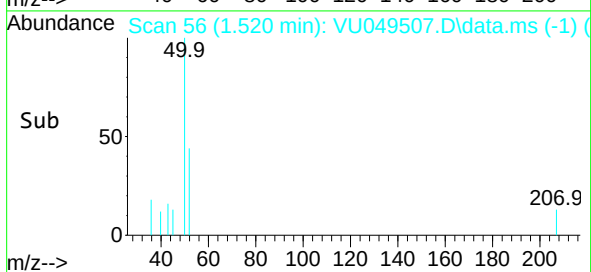
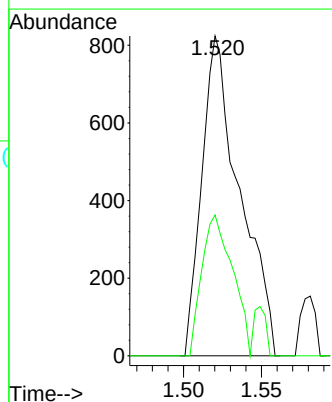
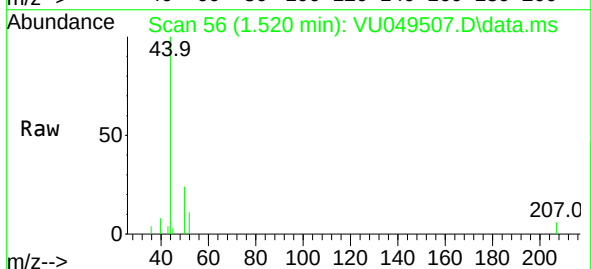
Instrument :
MSVOA_U
ClientSampleId :

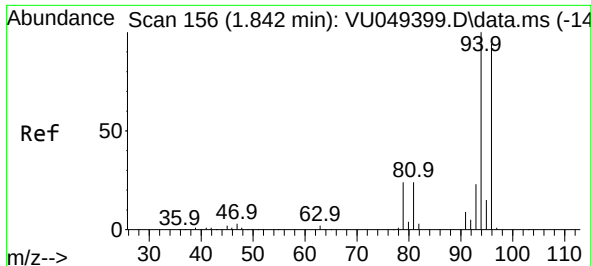
Tgt Ion:168 Resp: 280713
Ion Ratio Lower Upper
168 100
99 58.6 39.3 58.9



#3
Chloromethane
Concen: Below Cal
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU049507.D
Acq: 29 Jun 2022 13:03

Tgt Ion: 50 Resp: 1393
Ion Ratio Lower Upper
50 100
52 44.1 27.4 41.2#

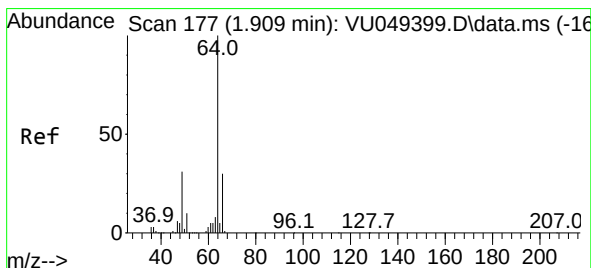
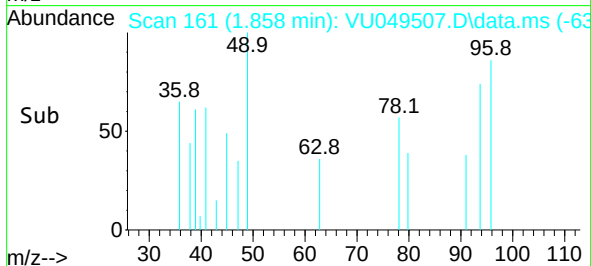
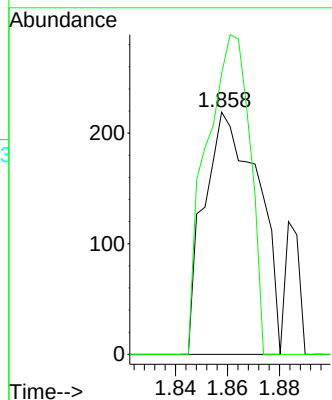
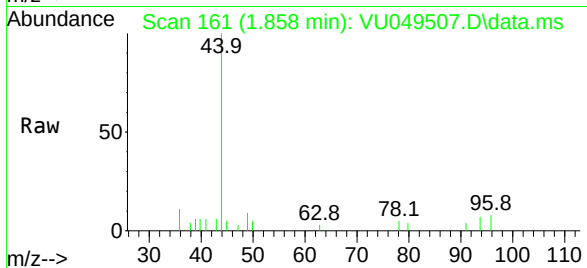




#5
Bromomethane
Concen: 0.223 ug/l
RT: 1.858 min Scan# 1
Delta R.T. 0.016 min
Lab File: VU049507.D
Acq: 29 Jun 2022 13:03

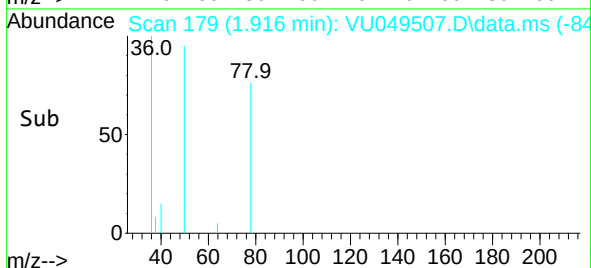
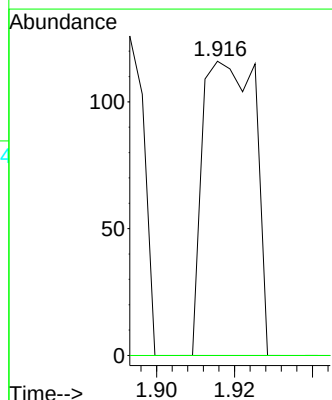
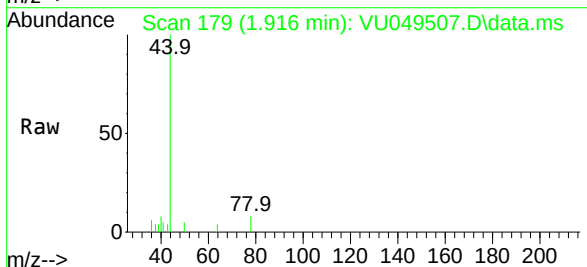
Instrument :
MSVOA_U
ClientSampleId :

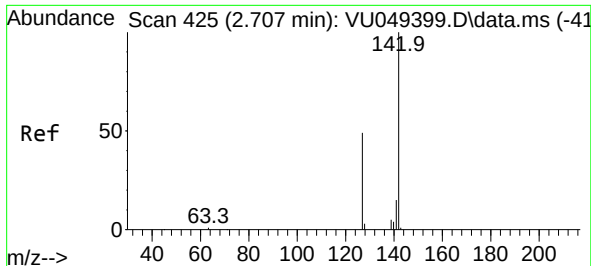
Tgt Ion: 94 Resp: 315
Ion Ratio Lower Upper
94 100
96 116.0 73.7 110.5#



#6
Chloroethane
Concen: 1.964 ug/l
RT: 1.916 min Scan# 179
Delta R.T. 0.007 min
Lab File: VU049507.D
Acq: 29 Jun 2022 13:03

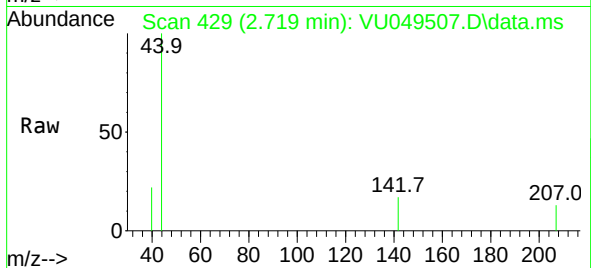
Tgt Ion: 64 Resp: 107
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



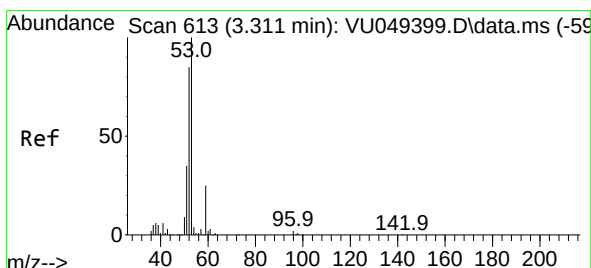
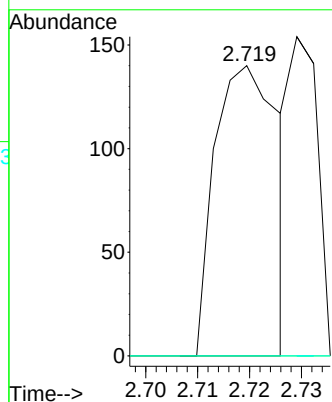
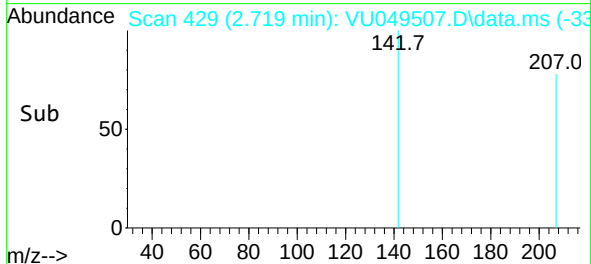


#10
Methyl Iodide
Concen: 7.546 ug/l
RT: 2.719 min Scan# 41
Delta R.T. 0.013 min
Lab File: VU049507.D
Acq: 29 Jun 2022 13:03

Instrument :
MSVOA_U
ClientSampleId :

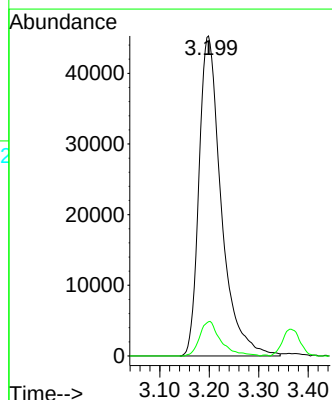
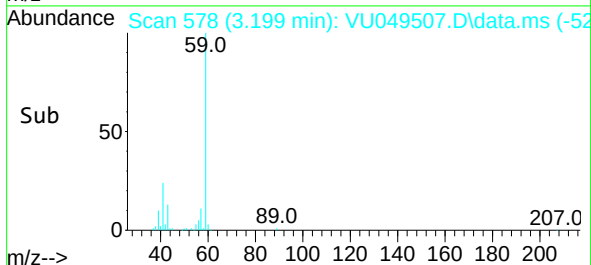
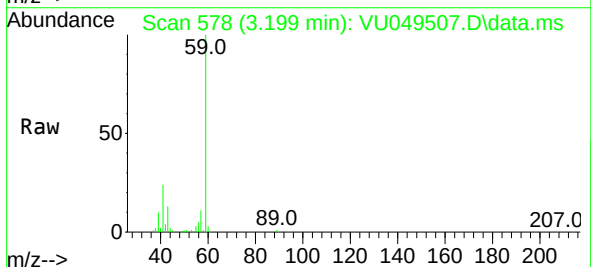


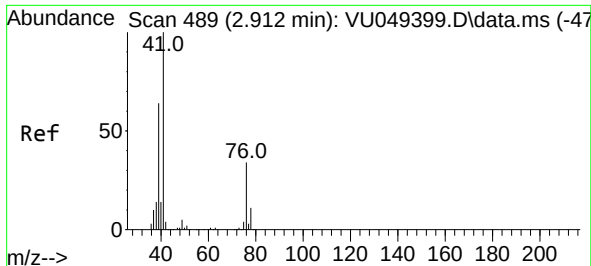
Tgt Ion:142 Resp: 119
Ion Ratio Lower Upper
142 100
127 0.0 32.5 48.7#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 139.885 ug/l
RT: 3.199 min Scan# 578
Delta R.T. -0.112 min
Lab File: VU049507.D
Acq: 29 Jun 2022 13:03

Tgt Ion: 59 Resp: 141546
Ion Ratio Lower Upper
59 100
57 10.3 30.6 45.8#





#14

Allyl chloride

Concen: 2.657 ug/l

RT: 3.199 min Scan# 51

Delta R.T. 0.286 min

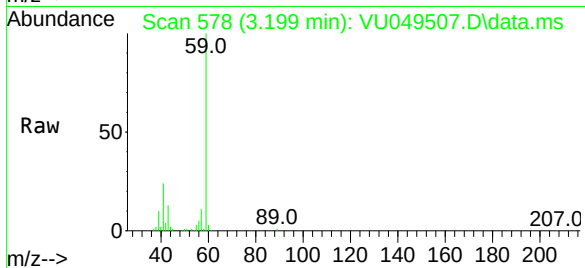
Lab File: VU049507.D

Acq: 29 Jun 2022 13:03

Instrument :

MSVOA_U

ClientSampleId :



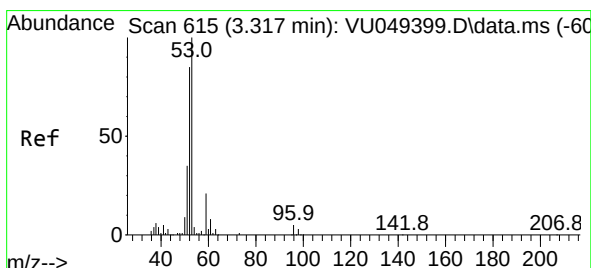
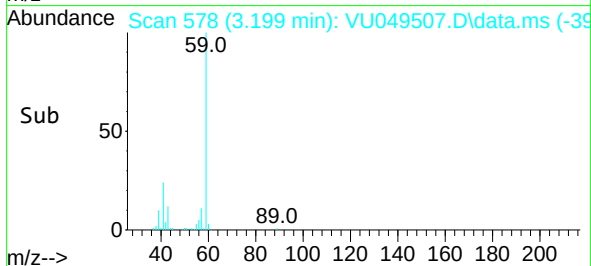
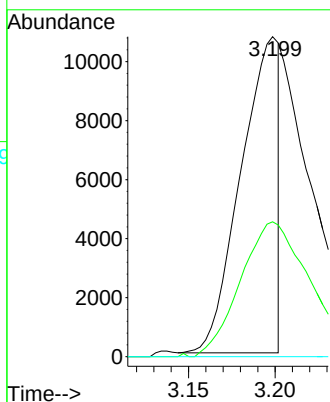
Tgt Ion: 41 Resp: 16375

Ion Ratio Lower Upper

41 100

39 43.2 53.4 80.2#

76 0.0 33.8 50.6#



#15

Acrylonitrile

Concen: 0.203 ug/l

RT: 3.369 min Scan# 631

Delta R.T. 0.052 min

Lab File: VU049507.D

Acq: 29 Jun 2022 13:03

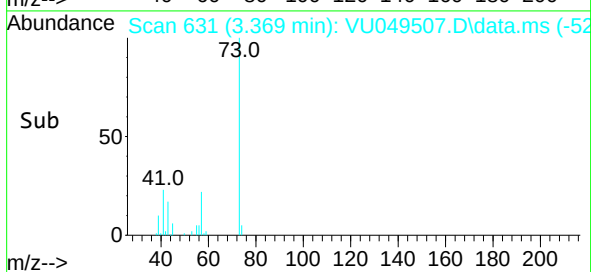
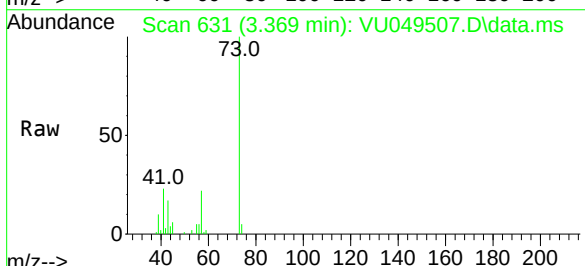
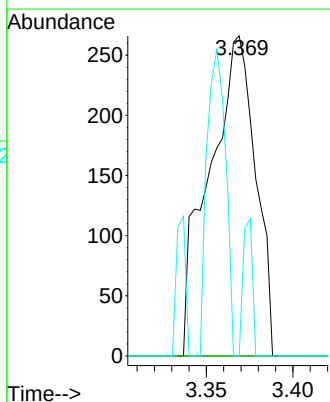
Tgt Ion: 53 Resp: 494

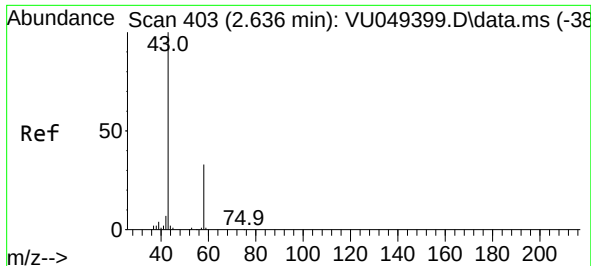
Ion Ratio Lower Upper

53 100

52 0.0 65.7 98.5#

51 8.5 28.2 42.4#





#16

Acetone

Concen: 1.448 ug/l

RT: 2.642 min Scan# 403

Delta R.T. 0.007 min

Lab File: VU049507.D

Acq: 29 Jun 2022 13:03

Instrument :

MSVOA_U

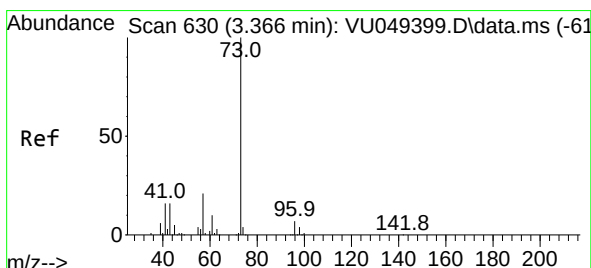
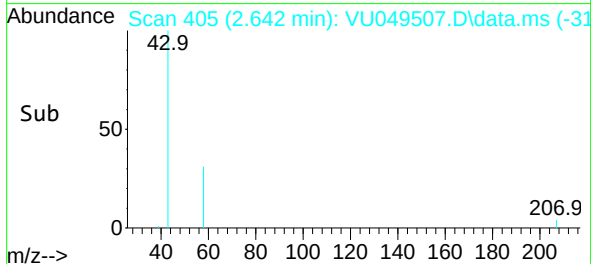
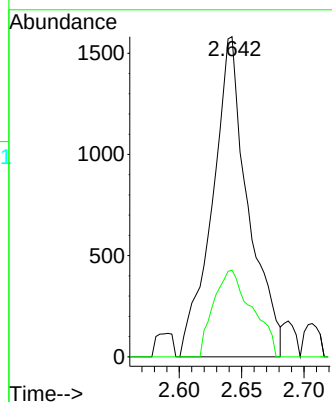
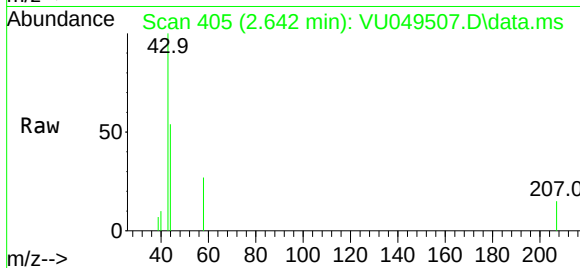
ClientSampleId :

Tgt Ion: 43 Resp: 3156

Ion Ratio Lower Upper

43 100

58 27.1 27.5 41.3#



#19

Methyl tert-butyl Ether

Concen: 3.553 ug/l

RT: 3.363 min Scan# 629

Delta R.T. -0.003 min

Lab File: VU049507.D

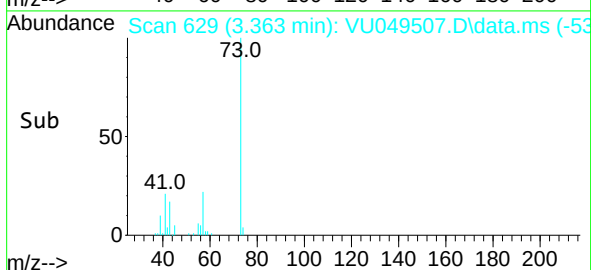
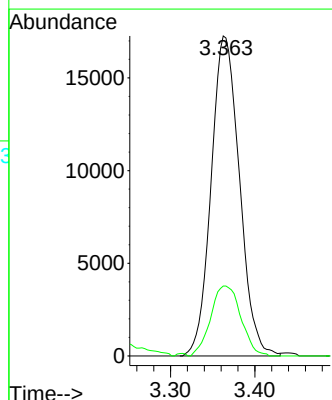
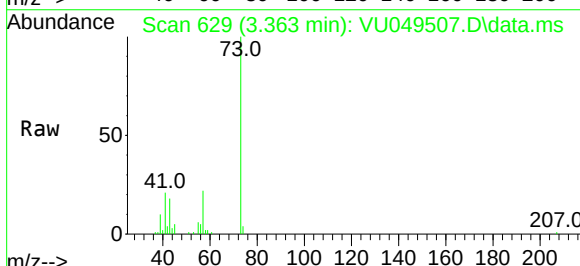
Acq: 29 Jun 2022 13:03

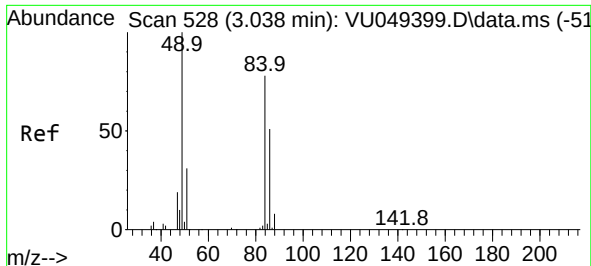
Tgt Ion: 73 Resp: 40291

Ion Ratio Lower Upper

73 100

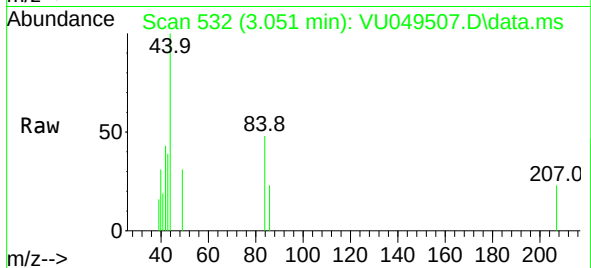
57 21.8 17.1 25.7



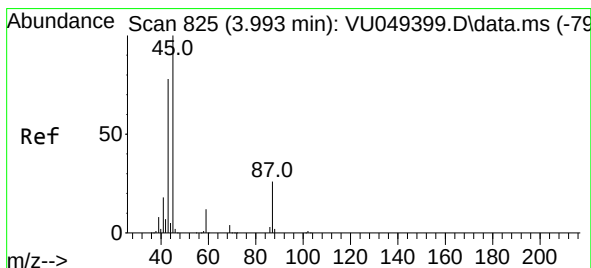
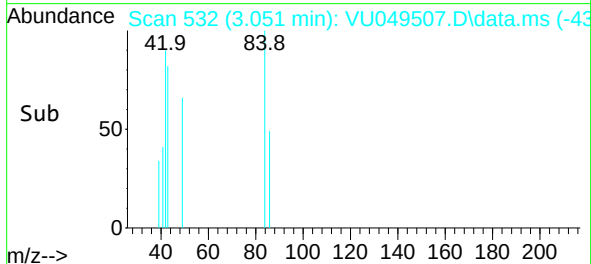
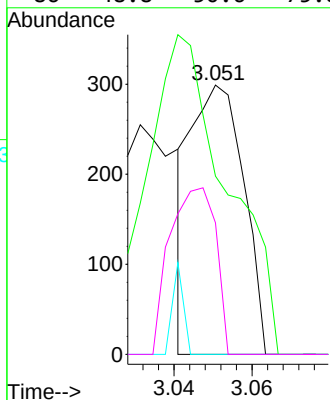


#20
Methylene Chloride
Concen: Below Cal
RT: 3.051 min Scan# 51
Delta R.T. 0.013 min
Lab File: VU049507.D
Acq: 29 Jun 2022 13:03

Instrument :
MSVOA_U
ClientSampleId :

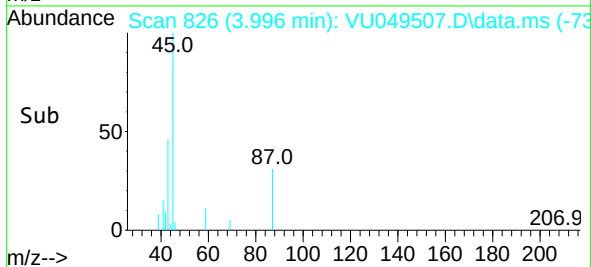
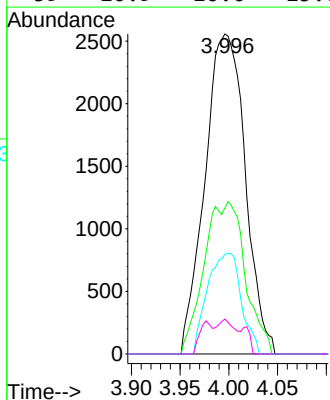
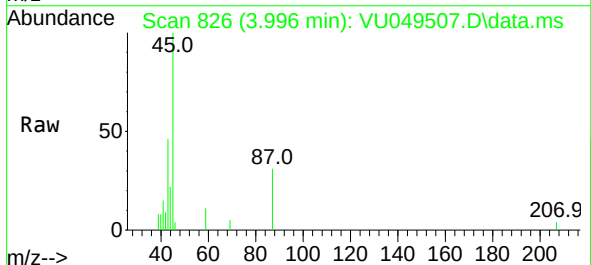


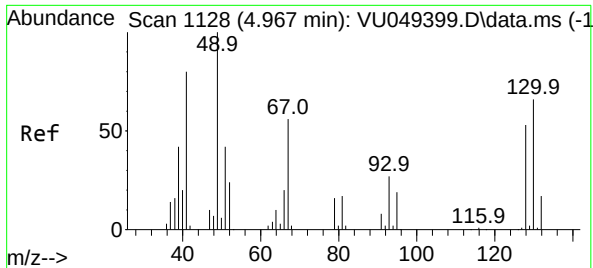
Tgt Ion: 84 Resp: 281
Ion Ratio Lower Upper
84 100
49 66.2 86.6 129.8#
51 0.0 26.6 40.0#
86 48.8 50.6 75.8#



#22
Diisopropyl ether
Concen: 0.624 ug/l
RT: 3.996 min Scan# 826
Delta R.T. 0.003 min
Lab File: VU049507.D
Acq: 29 Jun 2022 13:03

Tgt Ion: 45 Resp: 7344
Ion Ratio Lower Upper
45 100
43 45.6 92.9 139.3#
87 31.2 26.2 39.2
59 10.9 10.0 15.0





#28

Bromochloromethane

Concen: 0.223 ug/l

RT: 5.092 min Scan# 1167

Delta R.T. 0.125 min

Lab File: VU049507.D

Acq: 29 Jun 2022 13:03

Instrument :

MSVOA_U

ClientSampleId :

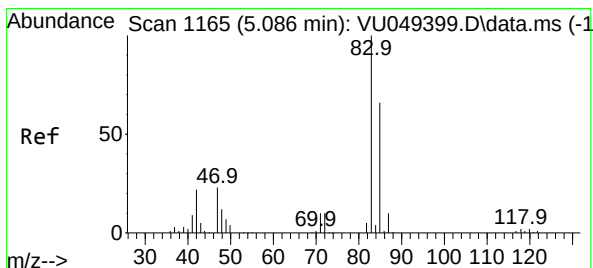
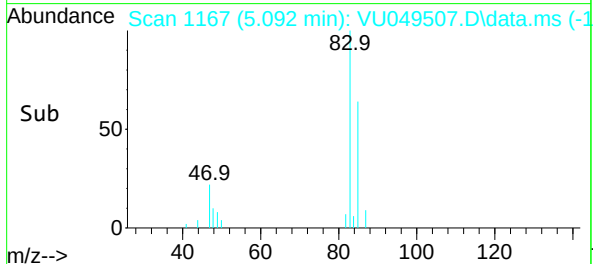
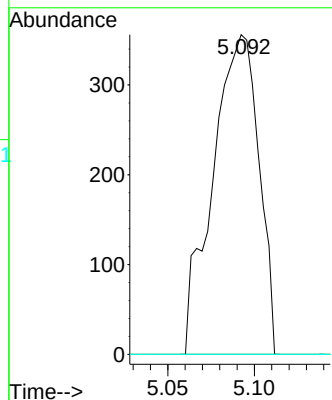
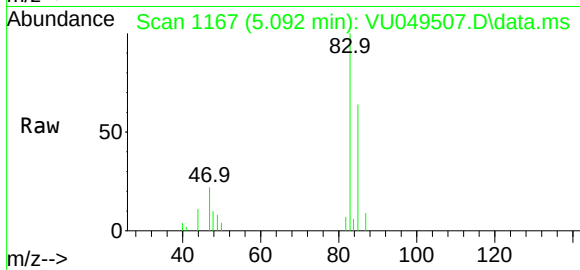
Tgt Ion: 49 Resp: 659

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.6

130 0.0 76.9 115.3#



#30

Chloroform

Concen: 1.440 ug/l

RT: 5.089 min Scan# 1166

Delta R.T. 0.003 min

Lab File: VU049507.D

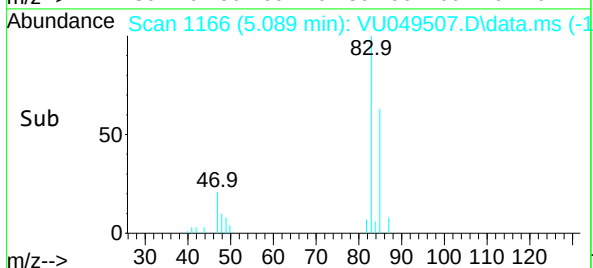
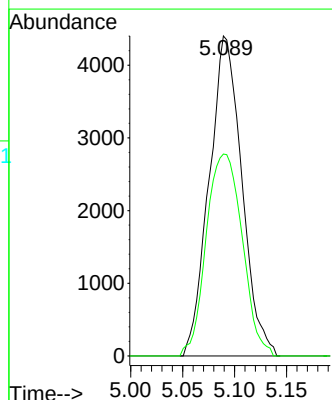
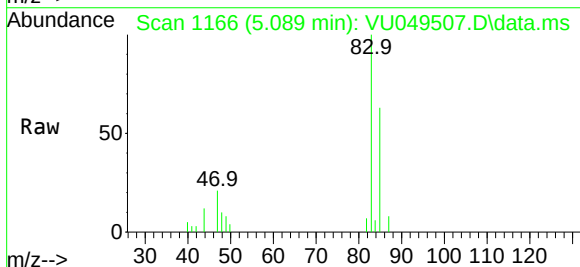
Acq: 29 Jun 2022 13:03

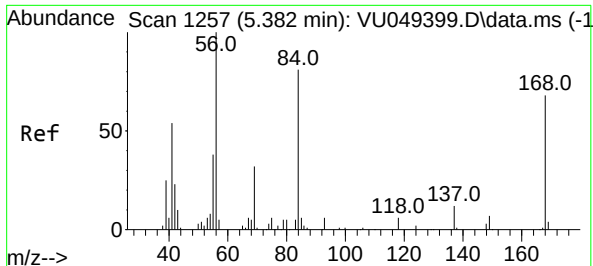
Tgt Ion: 83 Resp: 9627

Ion Ratio Lower Upper

83 100

85 63.1 51.2 76.8





#31

Cyclohexane

Concen: 0.860 ug/l

RT: 5.372 min Scan# 1

Delta R.T. -0.010 min

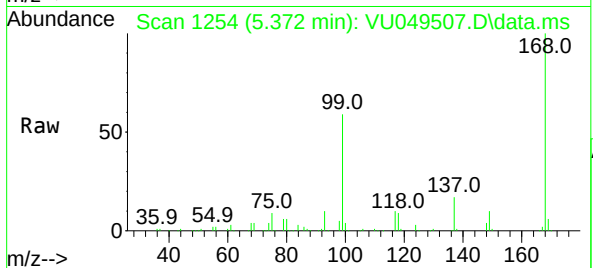
Lab File: VU049507.D

Acq: 29 Jun 2022 13:03

Instrument :

MSVOA_U

ClientSampleId :



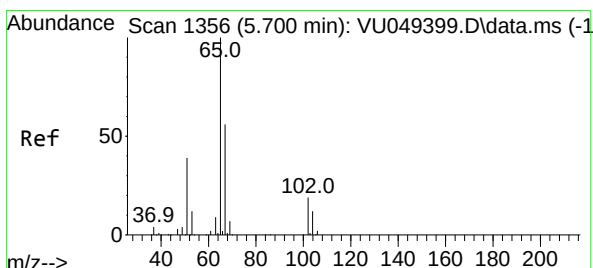
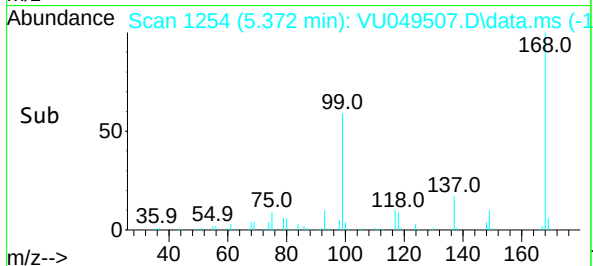
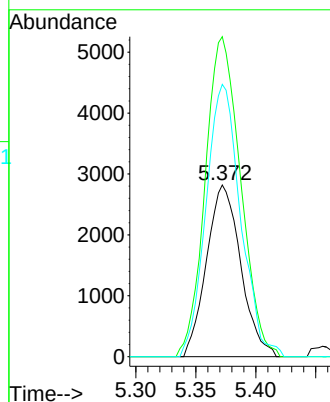
Tgt Ion: 56 Resp: 5583

Ion Ratio Lower Upper

56 100

69 186.3 27.8 41.8#

84 158.6 74.2 111.4#



#33

1,2-Dichloroethane-d4

Concen: 44.332 ug/l

RT: 5.703 min Scan# 1357

Delta R.T. 0.003 min

Lab File: VU049507.D

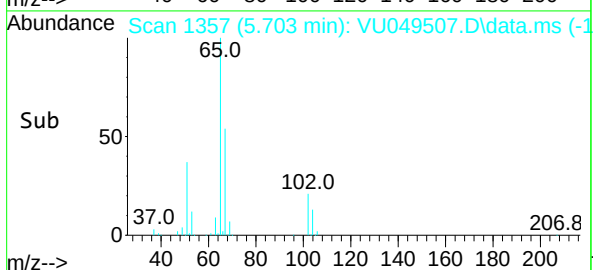
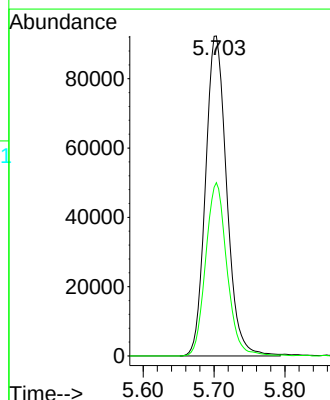
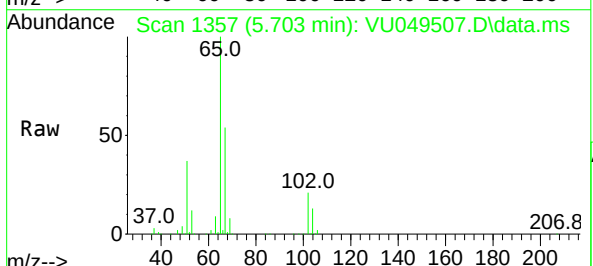
Acq: 29 Jun 2022 13:03

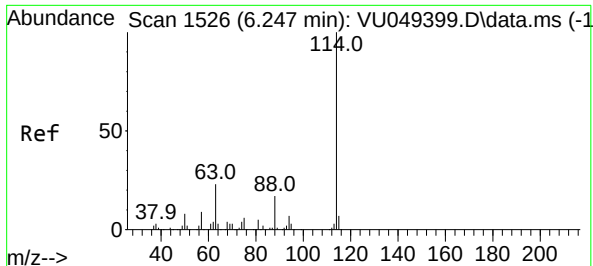
Tgt Ion: 65 Resp: 191654

Ion Ratio Lower Upper

65 100

67 54.3 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU049507.D

Acq: 29 Jun 2022 13:03

Instrument :

MSVOA_U

ClientSampleId :

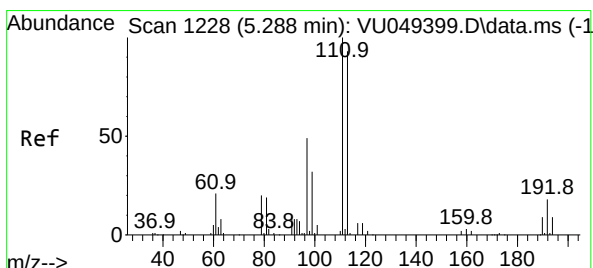
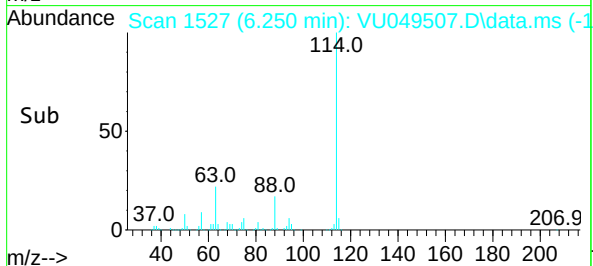
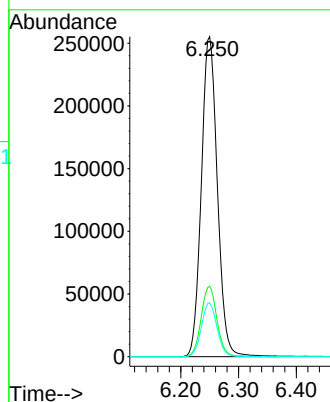
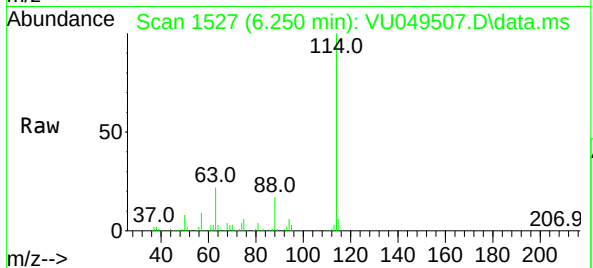
Tgt Ion:114 Resp: 491908

Ion Ratio Lower Upper

114 100

63 22.0 0.0 37.8

88 16.9 0.0 29.2



#35

Dibromofluoromethane

Concen: 45.096 ug/l

RT: 5.288 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VU049507.D

Acq: 29 Jun 2022 13:03

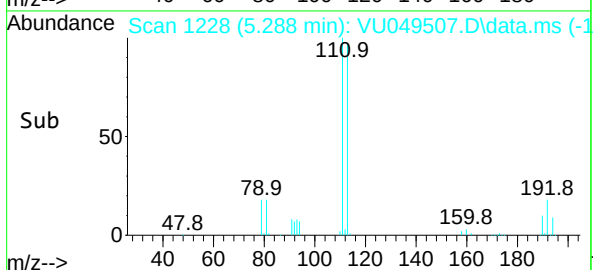
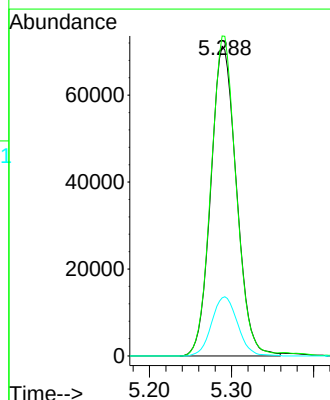
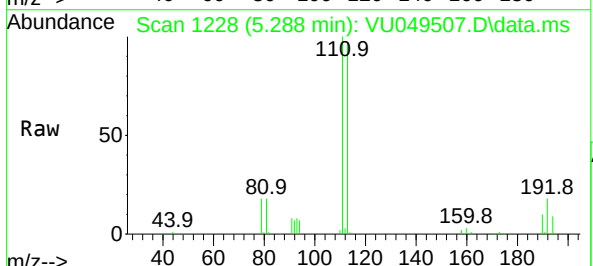
Tgt Ion:113 Resp: 155197

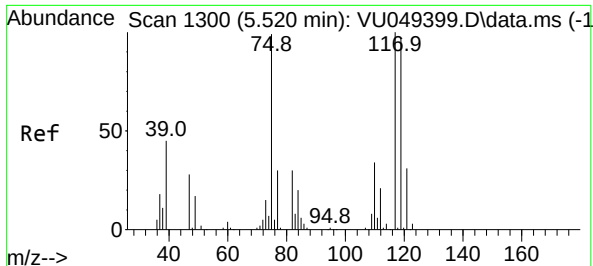
Ion Ratio Lower Upper

113 100

111 101.3 82.1 123.1

192 19.3 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.530 ug/l

RT: 5.372 min Scan# 11

Delta R.T. -0.148 min

Lab File: VU049507.D

Acq: 29 Jun 2022 13:03

Instrument :

MSVOA_U

ClientSampleId :

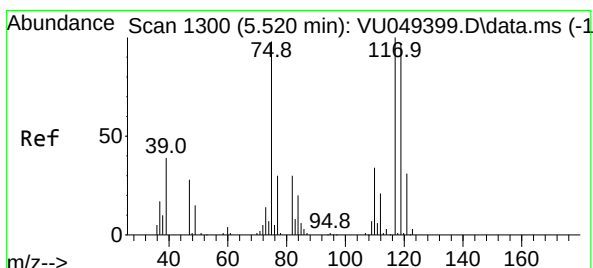
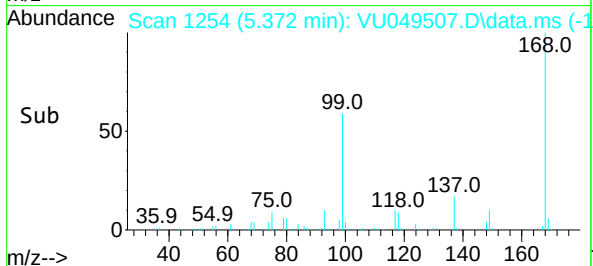
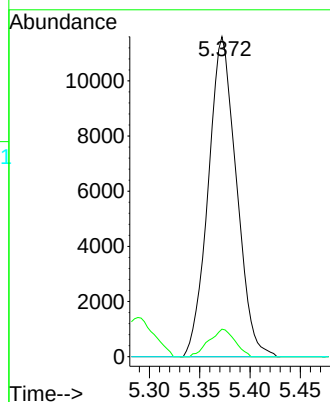
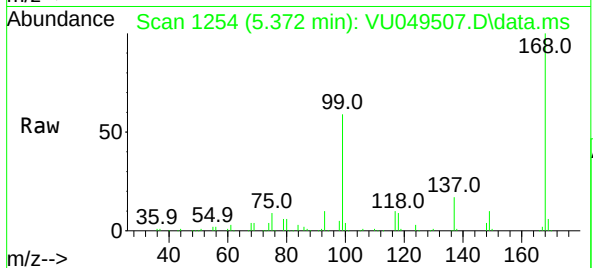
Tgt Ion: 75 Resp: 22606

Ion Ratio Lower Upper

75 100

110 7.9 18.4 55.2#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.554 ug/l

RT: 5.372 min Scan# 1254

Delta R.T. -0.148 min

Lab File: VU049507.D

Acq: 29 Jun 2022 13:03

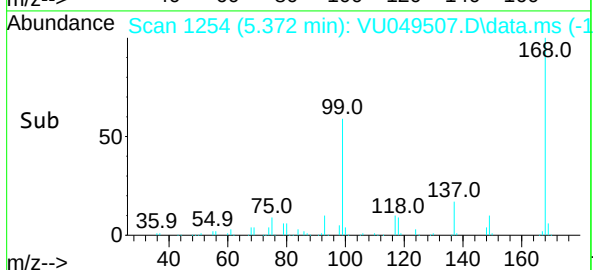
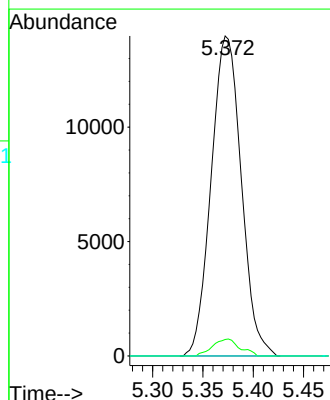
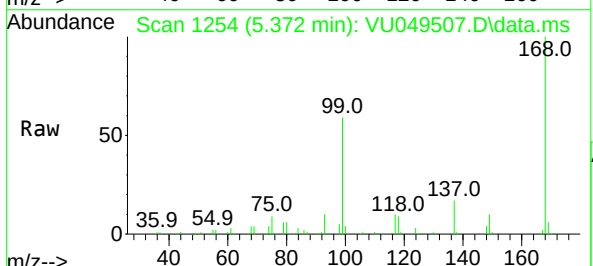
Tgt Ion: 117 Resp: 29065

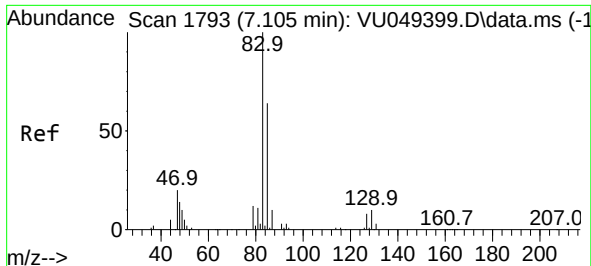
Ion Ratio Lower Upper

117 100

119 5.1 76.8 115.2#

121 0.0 24.7 37.1#





#47

Bromodichloromethane

Concen: 0.640 ug/l

RT: 7.108 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU049507.D

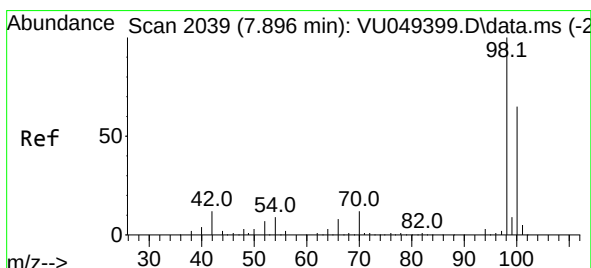
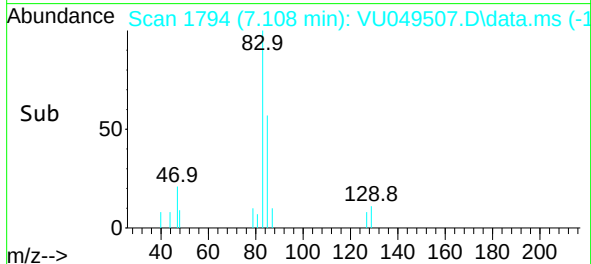
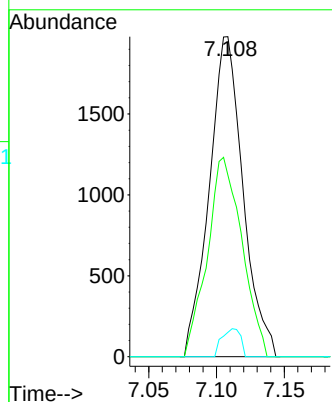
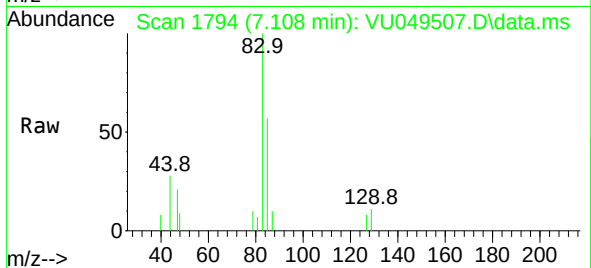
Acq: 29 Jun 2022 13:03

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 83	Resp:	3430
Ion Ratio	Lower	Upper
83	100	
85	56.8	51.4 77.2
127	7.6	7.1 10.7



#50

Toluene-d8

Concen: 47.700 ug/l

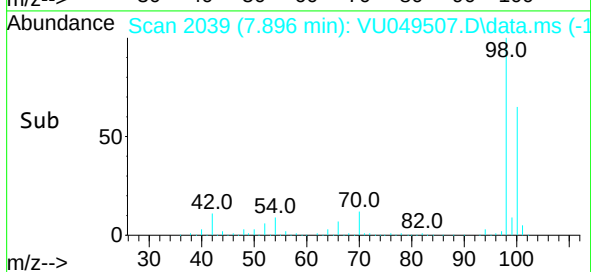
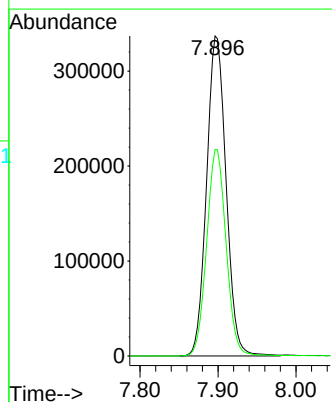
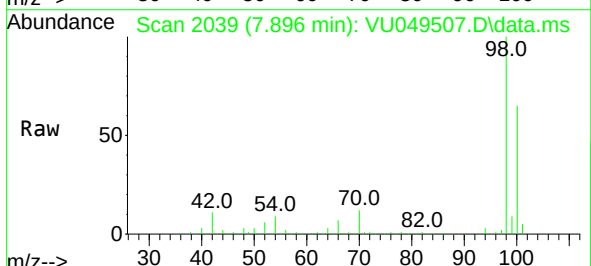
RT: 7.896 min Scan# 2039

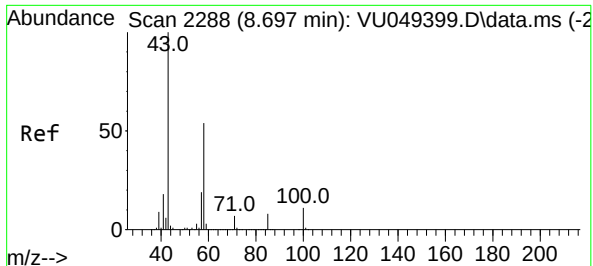
Delta R.T. 0.000 min

Lab File: VU049507.D

Acq: 29 Jun 2022 13:03

Tgt Ion: 98	Resp:	585518
Ion Ratio	Lower	Upper
98	100	
100	64.4	51.7 77.5





#59

2-Hexanone

Concen: 0.407 ug/l

RT: 8.687 min Scan# 2138

Delta R.T. -0.010 min

Lab File: VU049507.D

Acq: 29 Jun 2022 13:03

Instrument :

MSVOA_U

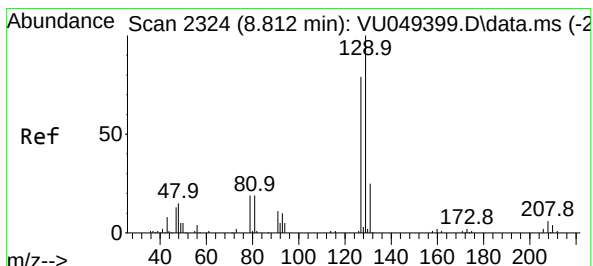
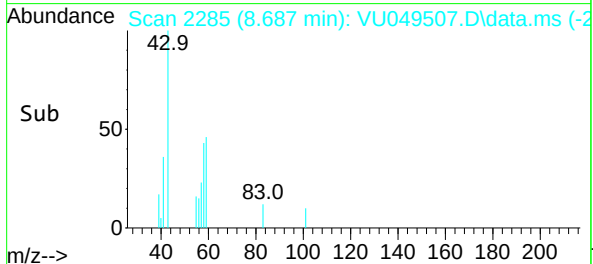
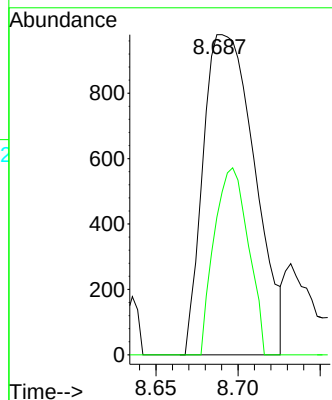
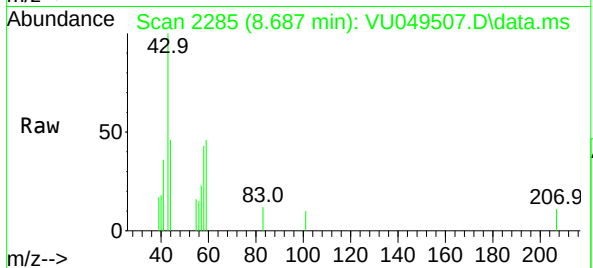
ClientSampleId :

Tgt Ion: 43 Resp: 2138

Ion Ratio Lower Upper

43 100

58 38.4 30.3 90.8



#60

Dibromochloromethane

Concen: 0.371 ug/l

RT: 8.809 min Scan# 2323

Delta R.T. -0.003 min

Lab File: VU049507.D

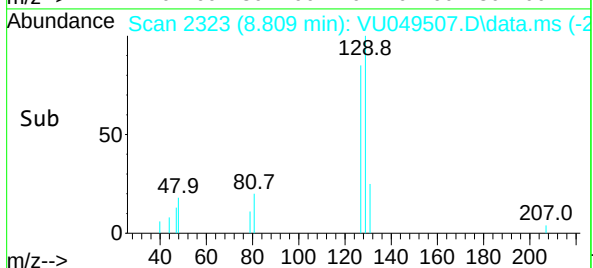
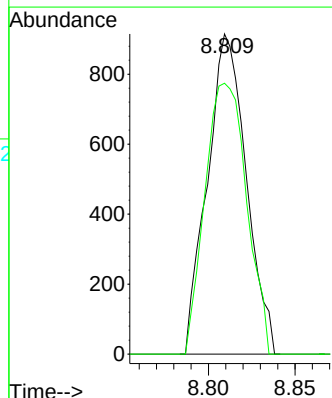
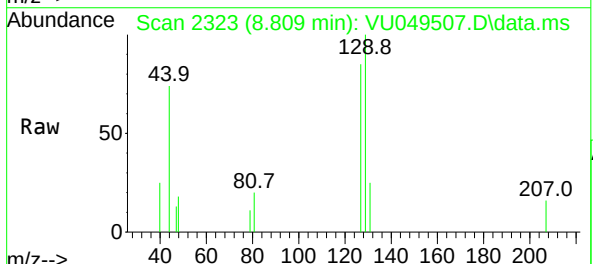
Acq: 29 Jun 2022 13:03

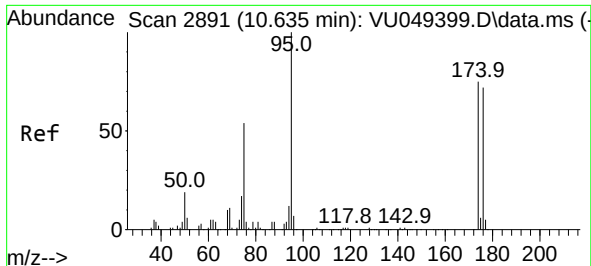
Tgt Ion: 129 Resp: 1428

Ion Ratio Lower Upper

129 100

127 90.7 38.6 116.0

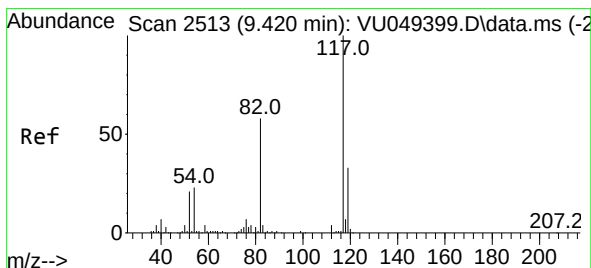
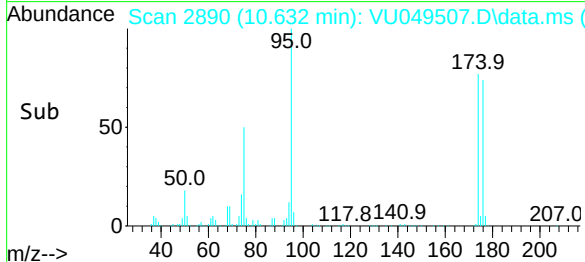
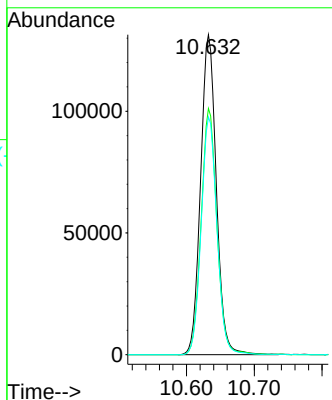
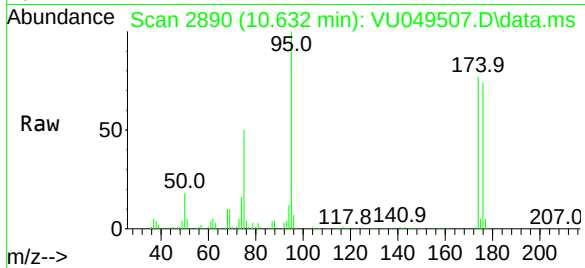




#62
4-Bromofluorobenzene
Concen: 45.046 ug/l
RT: 10.632 min Scan# 2118
Delta R.T. -0.003 min
Lab File: VU049507.D
Acq: 29 Jun 2022 13:03

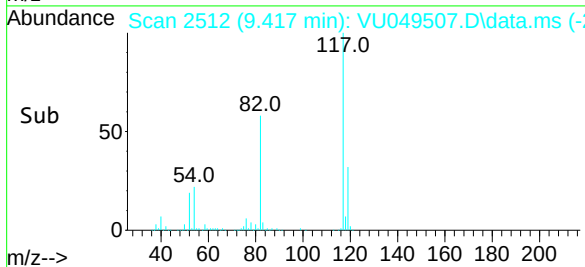
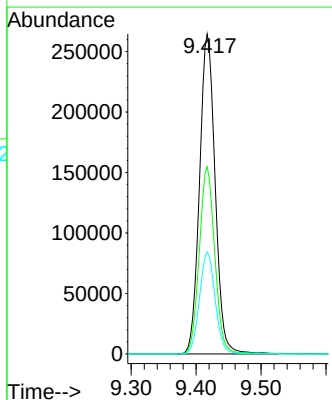
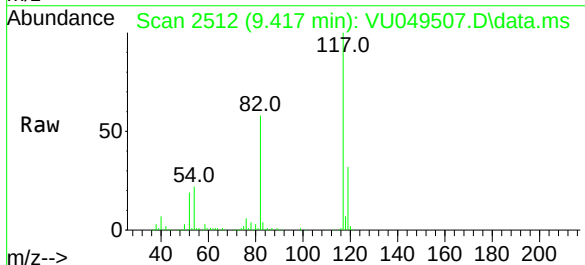
Instrument :
MSVOA_U
ClientSampleId :

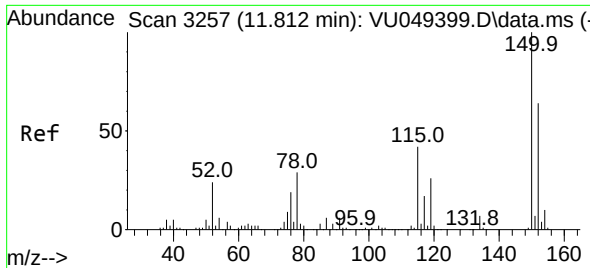
Tgt Ion: 95 Resp: 211812
Ion Ratio Lower Upper
95 100
174 77.0 0.0 182.0
176 74.3 0.0 177.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.417 min Scan# 2512
Delta R.T. -0.003 min
Lab File: VU049507.D
Acq: 29 Jun 2022 13:03

Tgt Ion: 117 Resp: 443947
Ion Ratio Lower Upper
117 100
82 58.5 41.7 62.5
119 31.9 25.7 38.5

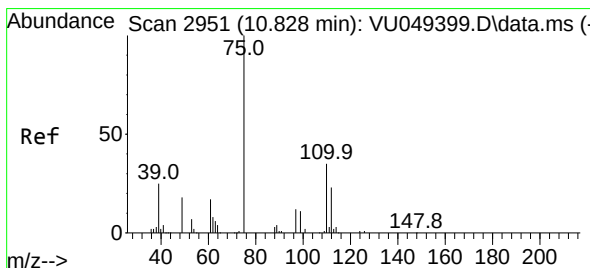
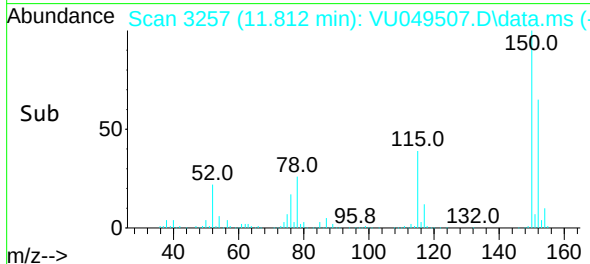
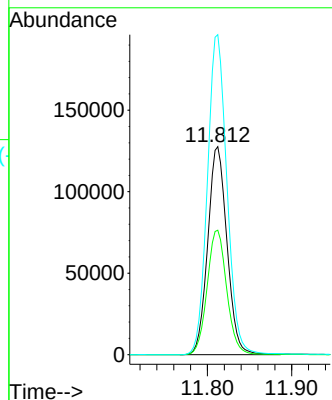
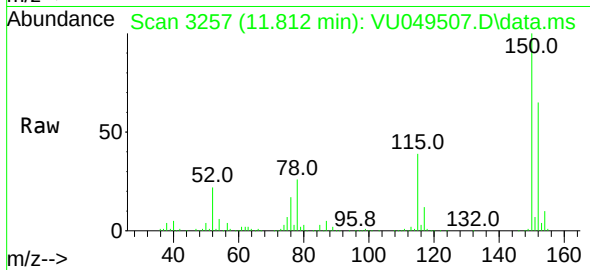




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.812 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VU049507.D
 Acq: 29 Jun 2022 13:03

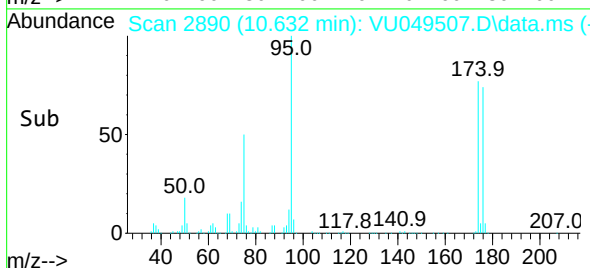
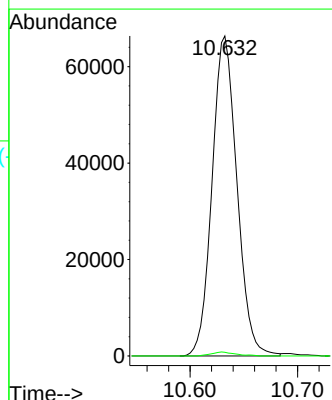
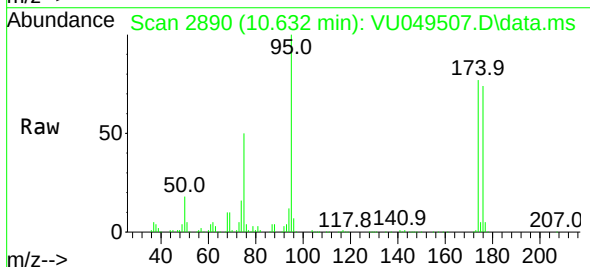
Instrument :
 MSVOA_U
 ClientSampleId :

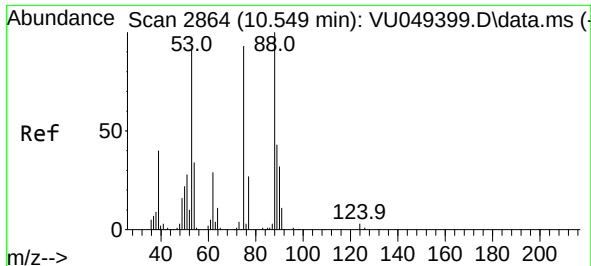
Tgt Ion:152 Resp: 203011
 Ion Ratio Lower Upper
 152 100
 115 60.8 37.0 110.9
 150 155.9 0.0 342.2



#76
 1,2,3-Trichloropropane
 Concen: 15.503 ug/l
 RT: 10.632 min Scan# 2890
 Delta R.T. -0.196 min
 Lab File: VU049507.D
 Acq: 29 Jun 2022 13:03

Tgt Ion: 75 Resp: 106688
 Ion Ratio Lower Upper
 75 100
 77 1.2 15.8 47.3#

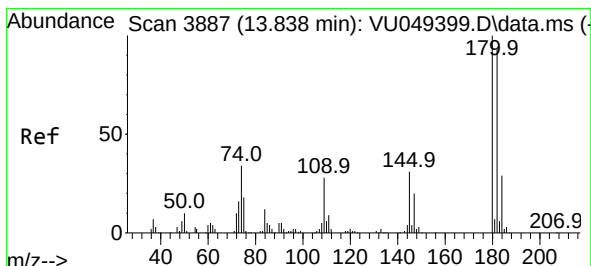
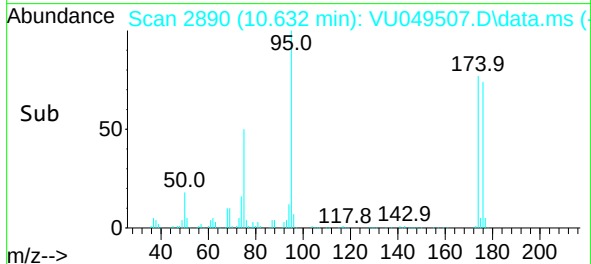
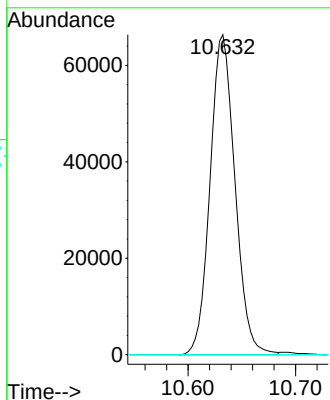
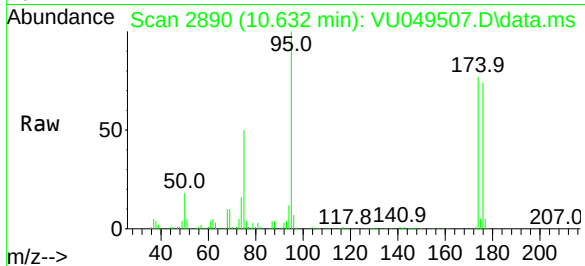




#81
trans-1,4-Dichloro-2-butene
Concen: 57.250 ug/l
RT: 10.632 min Scan# 21
Delta R.T. 0.084 min
Lab File: VU049507.D
Acq: 29 Jun 2022 13:03

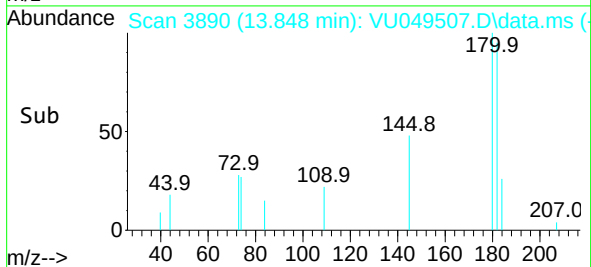
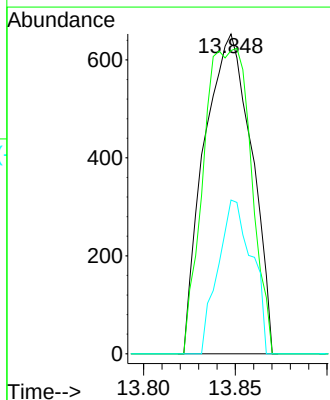
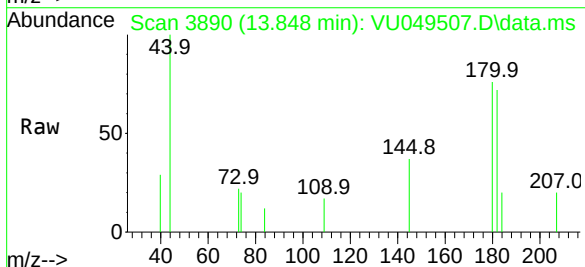
Instrument :
MSVOA_U
ClientSampleId :

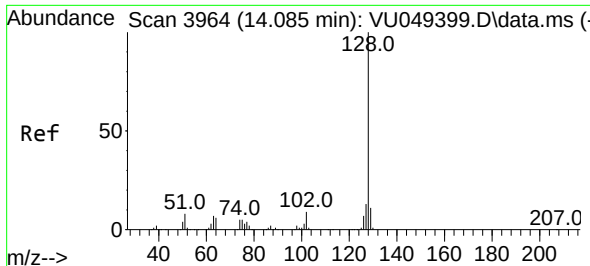
Tgt Ion: 75 Resp: 106688
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#93
1,2,4-Trichlorobenzene
Concen: 2.003 ug/l
RT: 13.848 min Scan# 3890
Delta R.T. 0.010 min
Lab File: VU049507.D
Acq: 29 Jun 2022 13:03

Tgt Ion:180 Resp: 1175
Ion Ratio Lower Upper
180 100
182 95.7 47.9 143.6
145 34.4 14.0 41.9

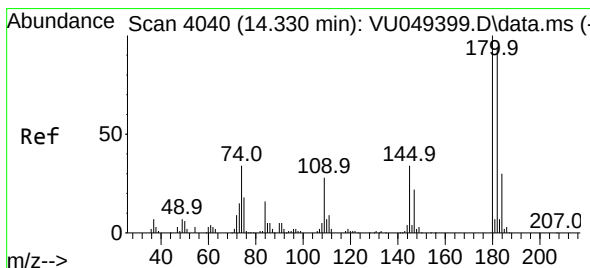
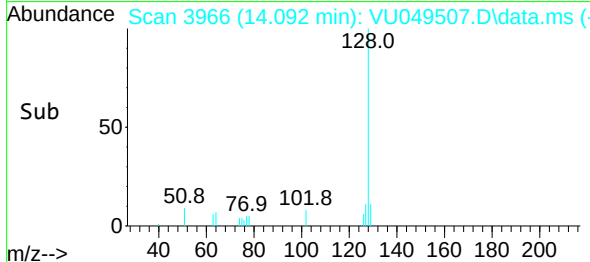
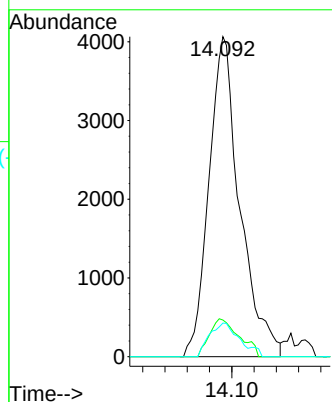
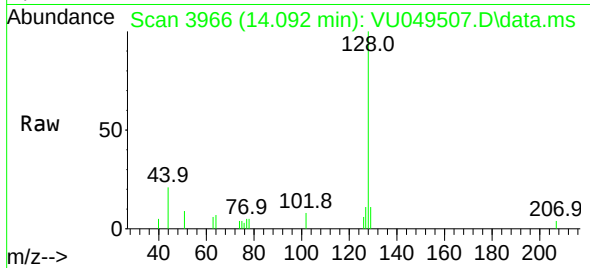




#95
Naphthalene
Concen: 2.211 ug/l
RT: 14.092 min Scan# 3966
Delta R.T. 0.007 min
Lab File: VU049507.D
Acq: 29 Jun 2022 13:03

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:128	Resp:	7822
Ion Ratio	Lower	Upper
128	100	
127	11.3	10.3 15.5
129	10.3	8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 1.522 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. 0.003 min
Lab File: VU049507.D
Acq: 29 Jun 2022 13:03

Tgt Ion:180	Resp:	1653
Ion Ratio	Lower	Upper
180	100	
182	85.6	48.4 145.0
145	26.2	14.8 44.4

