

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU053023\
 Data File : VU054320.D
 Acq On : 30 May 2023 17:44
 Operator : JC/MD
 Sample : 02936-21 40X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-02-20230524

Quant Time: May 31 06:29:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U052523W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 26 06:40:51 2023
 Response via : Initial Calibration

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

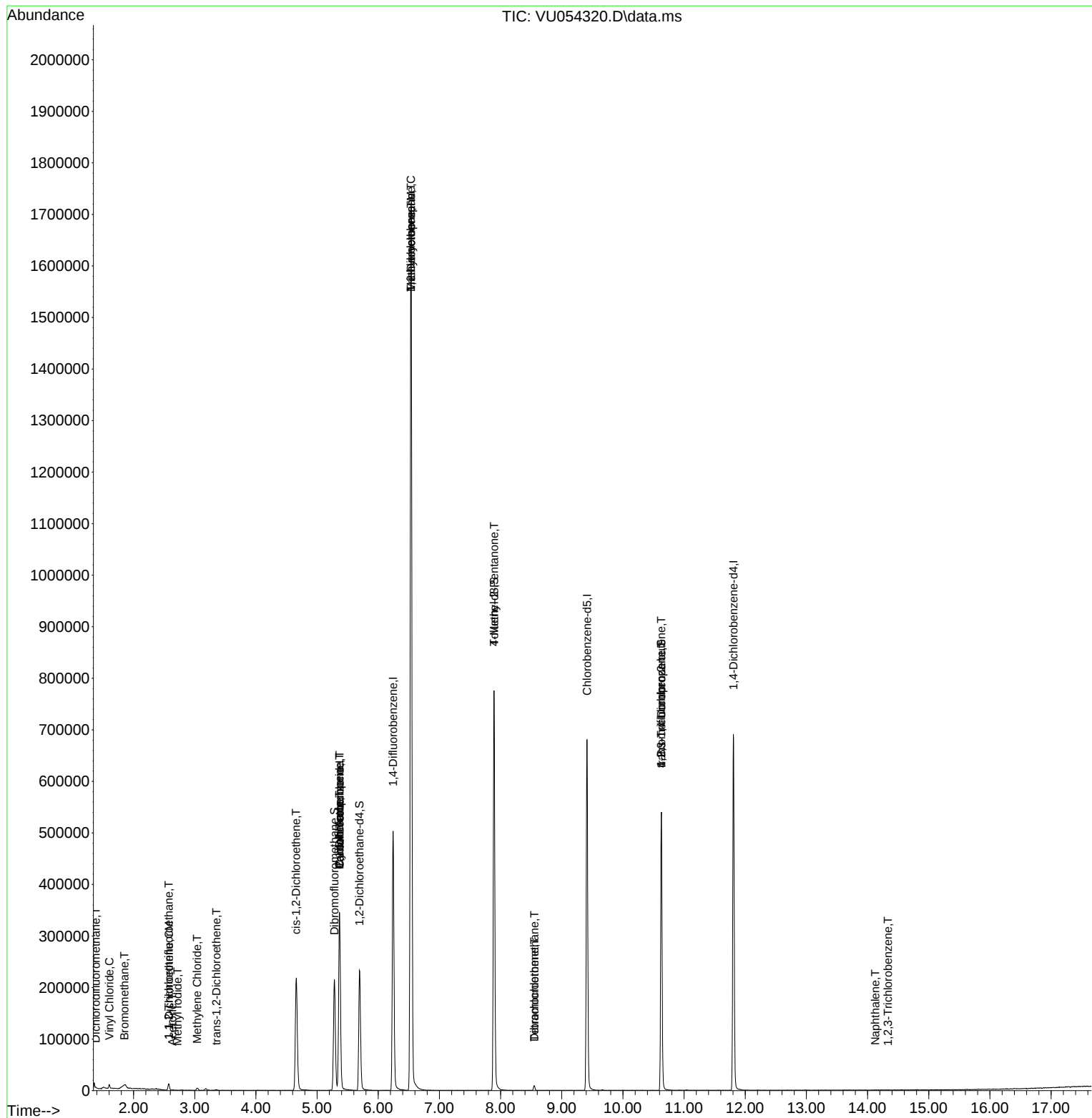
Internal Standards						
1) Pentafluorobenzene	5.369	168	253228	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	420383	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.414	117	397529	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	192672	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.693	65	174752	52.643	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 105.280%	
35) Dibromofluoromethane	5.282	113	140783	52.004	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 104.000%	
50) Toluene-d8	7.893	98	519036	50.405	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 100.820%	
62) 4-Bromofluorobenzene	10.629	95	178450	44.694	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 89.380%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.382	85	925	0.327	ug/l	74
4) Vinyl Chloride	1.604	62	5791	1.640	ug/l	100
5) Bromomethane	1.851	94	431	0.220	ug/l #	59
9) 1,1,2-Trichlorotrifluo...	2.575	101	4736	1.800	ug/l	89
10) Methyl Iodide	2.719	142	21	2.338	ug/l #	43
12) 1,1-Dichloroethene	2.578	96	918	0.337	ug/l #	77
16) Acetone	2.632	43	883	0.464	ug/l #	40
20) Methylene Chloride	3.038	84	2326	0.678	ug/l	96
21) trans-1,2-Dichloroethene	3.353	96	812	0.278	ug/l #	75
27) cis-1,2-Dichloroethene	4.658	96	119505	36.838	ug/l	96
31) Cyclohexane	5.365	56	4938	1.053	ug/l #	5
36) 1,1-Dichloropropene	5.365	75	19909	4.682	ug/l #	48
38) Carbon Tetrachloride	5.369	117	24280	5.579	ug/l #	16
39) Methylcyclohexane	6.536	83	7774	1.614	ug/l #	1
44) Trichloroethene	6.536	130	603801	178.092	ug/l	93
45) 1,2-Dichloropropane	6.533	63	1860	0.588	ug/l #	1
51) 4-Methyl-2-Pentanone	7.893	43	1783	0.374	ug/l #	1
60) Dibromochloromethane	8.552	129	2176	0.668	ug/l #	11
64) Tetrachloroethene	8.552	164	2126	0.711	ug/l	97
76) 1,2,3-Trichloropropane	10.629	75	91791	16.323	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.629	75	91791	62.158	ug/l #	15
95) Naphthalene	14.124	128	663	2.036	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.333	180	43	1.264	ug/l #	1

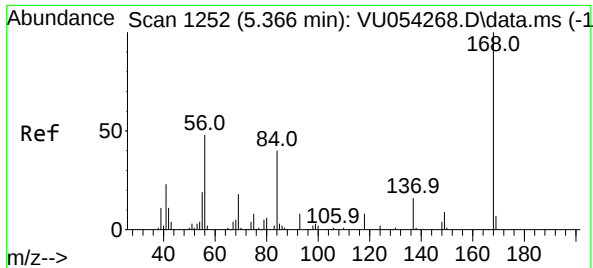
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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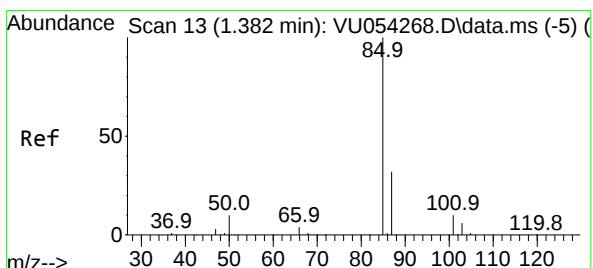
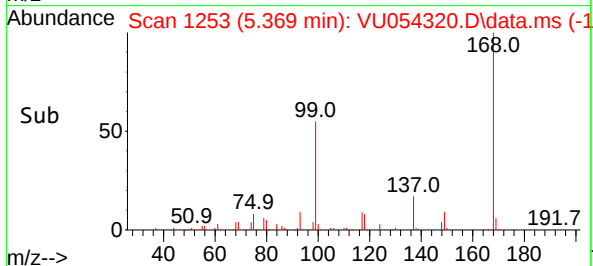
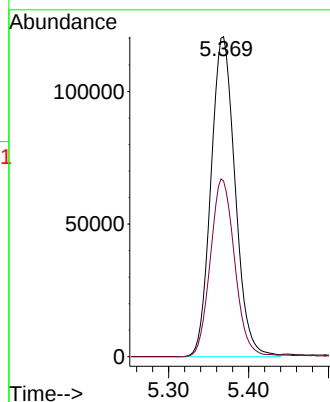
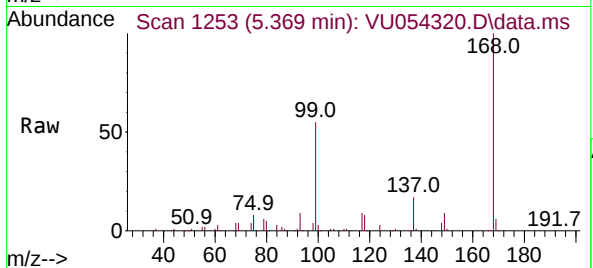




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.369 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

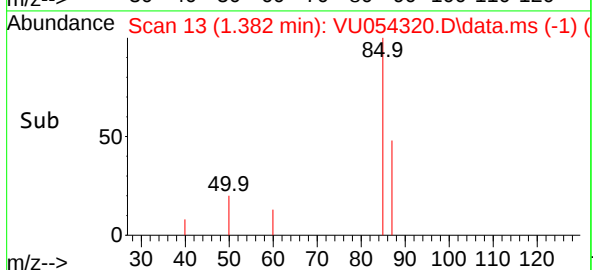
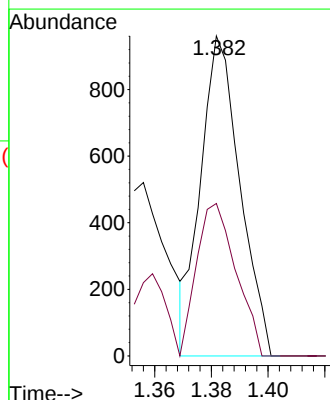
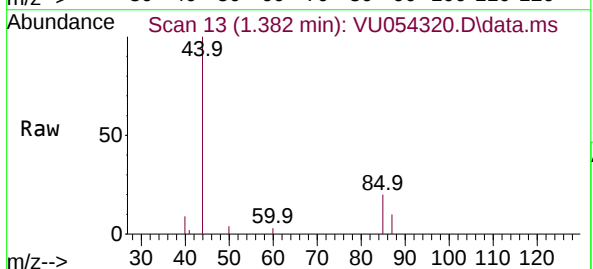
Instrument :
MSVOA_U
ClientSampleId :
DUP-02-20230524

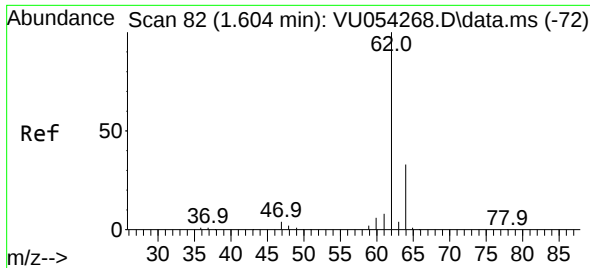
Tgt Ion:168 Resp: 253228
Ion Ratio Lower Upper
168 100
99 54.9 39.3 58.9



#2
Dichlorodifluoromethane
Concen: 0.327 ug/l
RT: 1.382 min Scan# 13
Delta R.T. -0.000 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

Tgt Ion: 85 Resp: 925
Ion Ratio Lower Upper
85 100
87 47.7 16.4 49.2





#4

Vinyl Chloride

Concen: 1.640 ug/l

RT: 1.604 min Scan# 81

Delta R.T. -0.000 min

Lab File: VU054320.D

Acq: 30 May 2023 17:44

Instrument :

MSVOA_U

ClientSampleId :

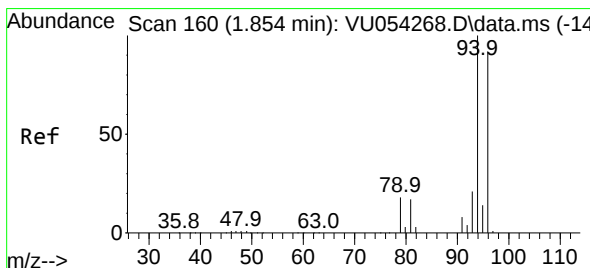
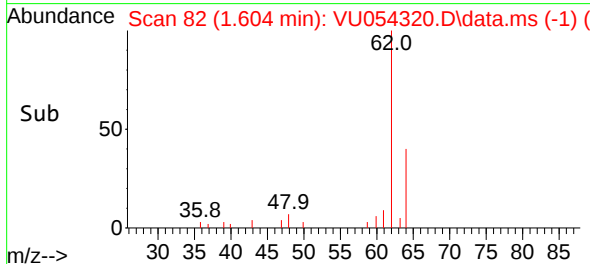
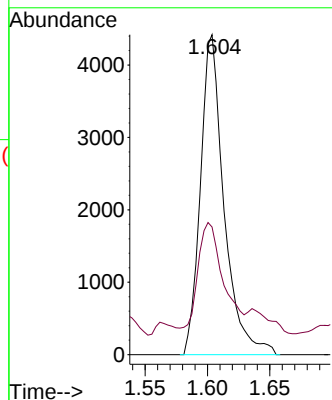
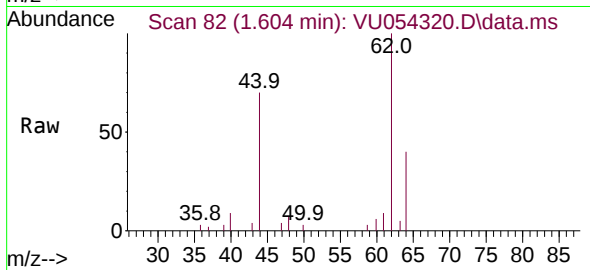
DUP-02-20230524

Tgt Ion: 62 Resp: 5791

Ion Ratio Lower Upper

62 100

64 31.6 25.3 37.9



#5

Bromomethane

Concen: 0.220 ug/l

RT: 1.851 min Scan# 159

Delta R.T. -0.003 min

Lab File: VU054320.D

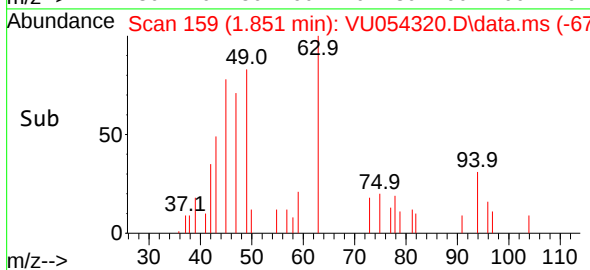
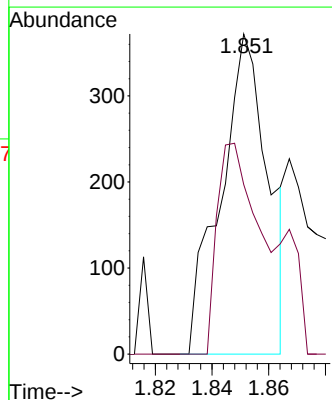
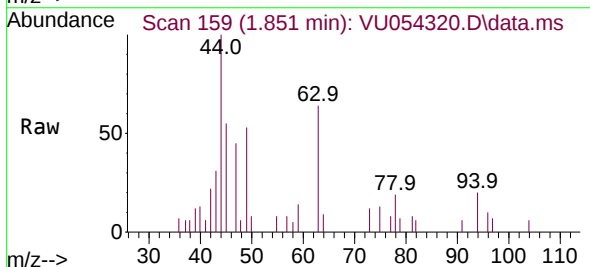
Acq: 30 May 2023 17:44

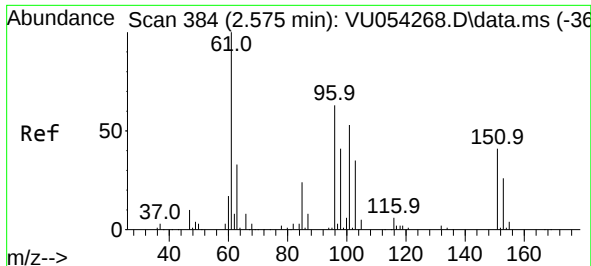
Tgt Ion: 94 Resp: 431

Ion Ratio Lower Upper

94 100

96 53.0 73.7 110.5#

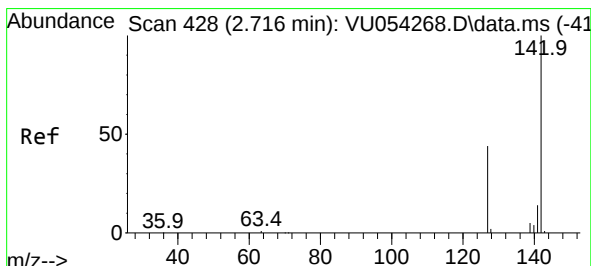
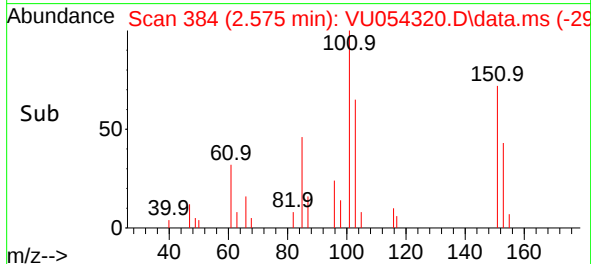
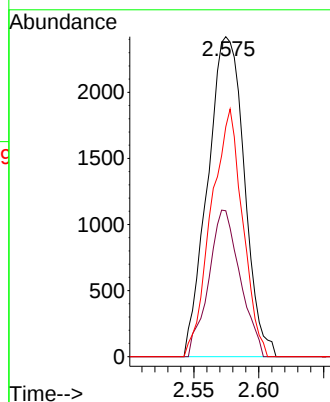
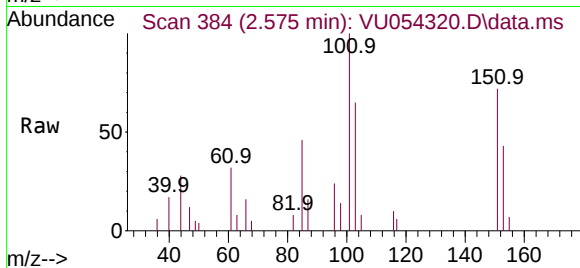




#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.800 ug/l
RT: 2.575 min Scan# 384
Delta R.T. -0.000 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

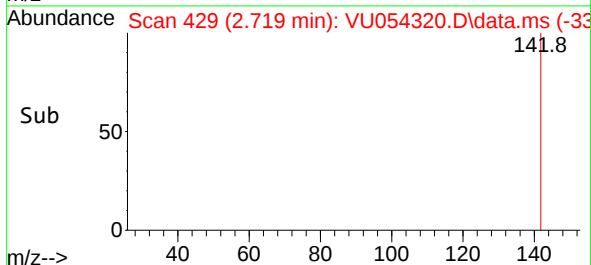
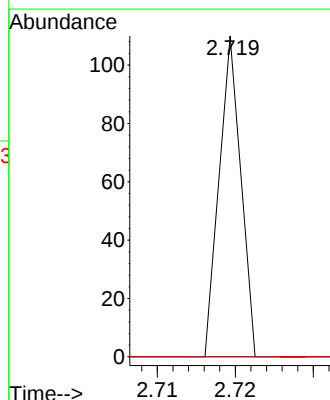
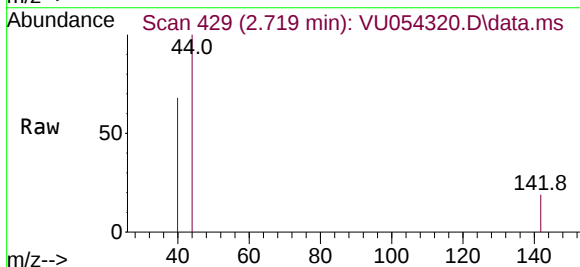
Instrument :
MSVOA_U
ClientSampleId :
DUP-02-20230524

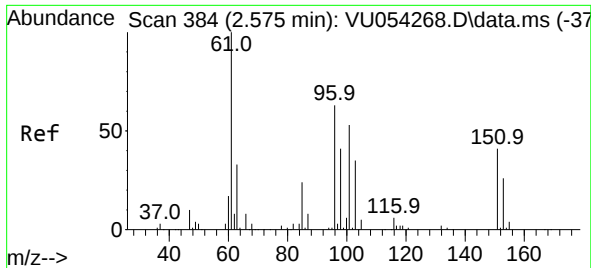
Tgt Ion:	101	Resp:	4736
Ion	Ratio	Lower	Upper
101	100		
85	39.4	33.9	50.9
151	66.7	64.0	96.0



#10
Methyl Iodide
Concen: 2.338 ug/l
RT: 2.719 min Scan# 429
Delta R.T. 0.003 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

Tgt Ion:	142	Resp:	21
Ion	Ratio	Lower	Upper
142	100		
127	0.0	32.5	48.7#
141	0.0	11.4	17.0#

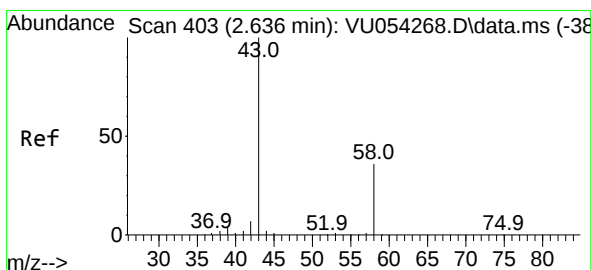
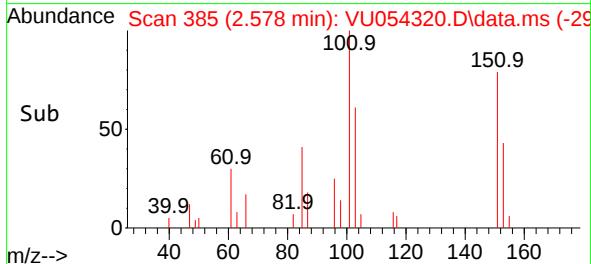
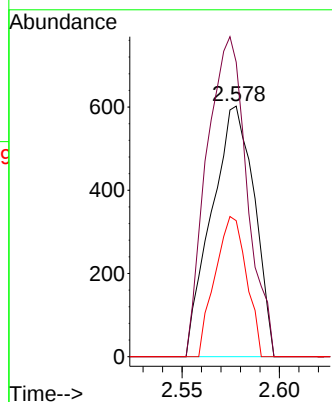
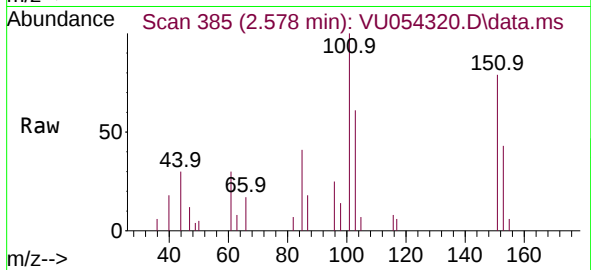




#12
1,1-Dichloroethene
Concen: 0.337 ug/l
RT: 2.578 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

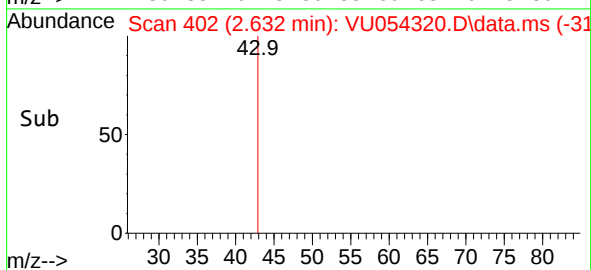
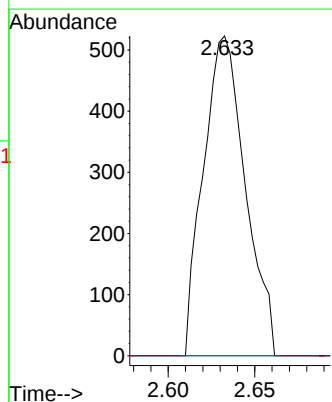
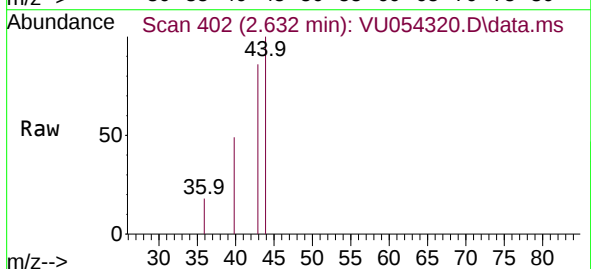
Instrument :
MSVOA_U
ClientSampleId :
DUP-02-20230524

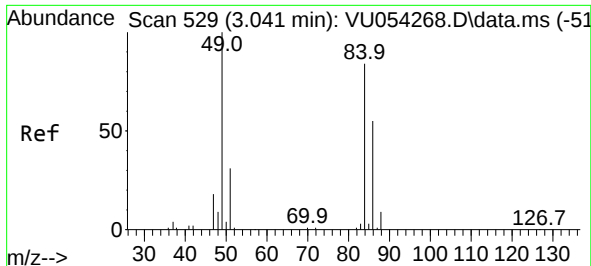
Tgt Ion: 96 Resp: 918
Ion Ratio Lower Upper
96 100
61 117.6 122.2 183.2#
98 54.3 50.7 76.1



#16
Acetone
Concen: 0.464 ug/l
RT: 2.632 min Scan# 402
Delta R.T. -0.004 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

Tgt Ion: 43 Resp: 883
Ion Ratio Lower Upper
43 100
58 0.0 27.5 41.3#

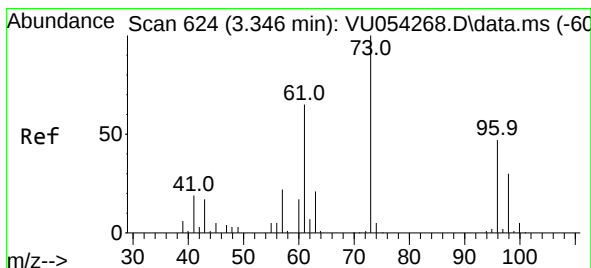
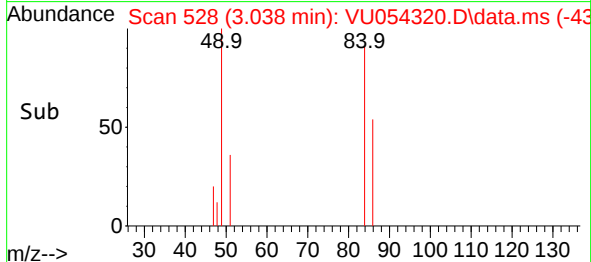
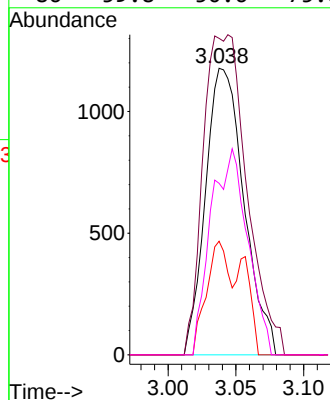
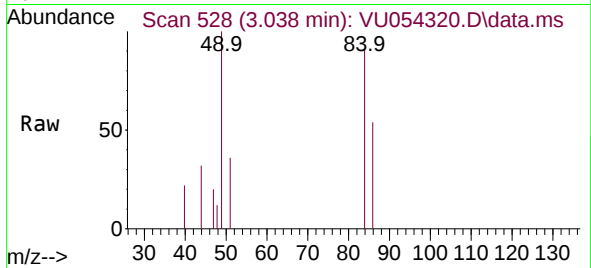




#20
Methylene Chloride
Concen: 0.678 ug/l
RT: 3.038 min Scan# 51
Delta R.T. -0.003 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

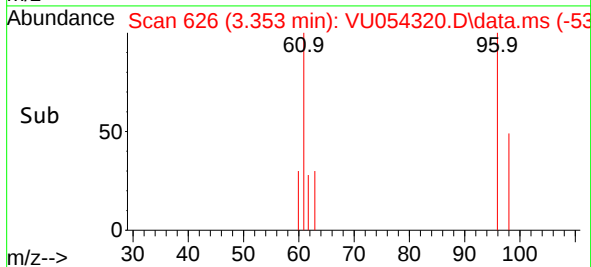
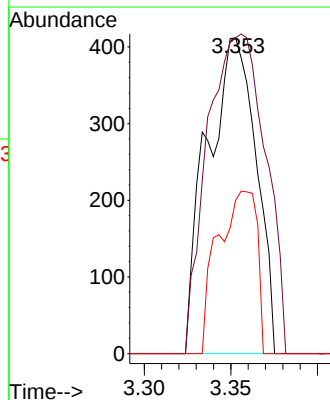
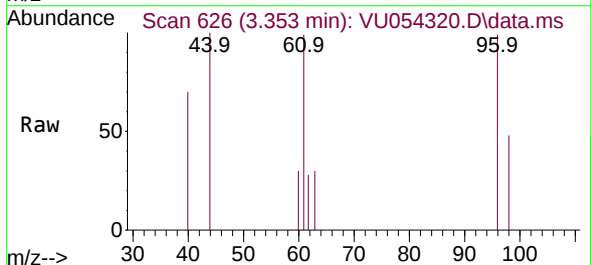
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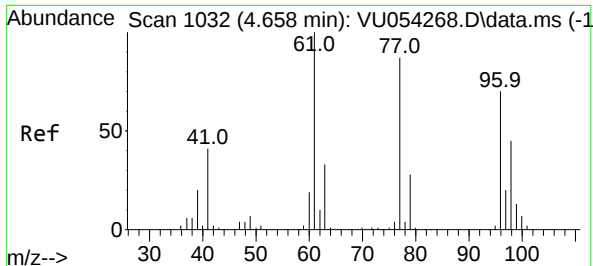
Tgt Ion:	84	Resp:	2326
Ion	Ratio	Lower	Upper
84	100		
49	110.4	86.6	129.8
51	39.6	26.6	40.0
86	59.8	50.6	75.8



#21
trans-1,2-Dichloroethene
Concen: 0.278 ug/l
RT: 3.353 min Scan# 626
Delta R.T. 0.007 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

Tgt Ion:	96	Resp:	812
Ion	Ratio	Lower	Upper
96	100		
61	100.0	106.1	159.1#
98	48.5	50.8	76.2#



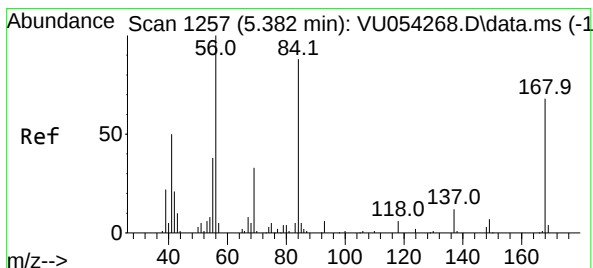
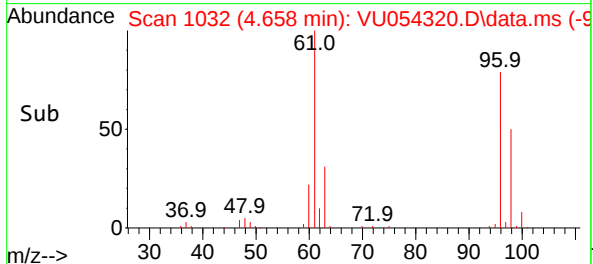
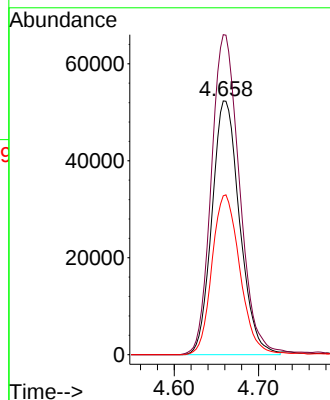
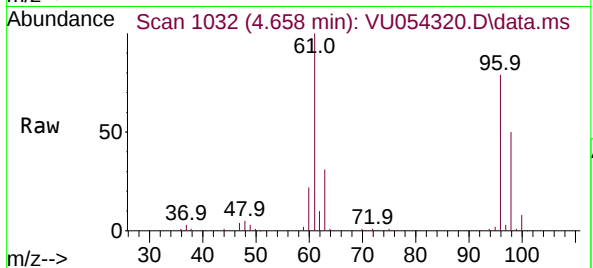


#27
 cis-1,2-Dichloroethene
 Concen: 36.838 ug/l
 RT: 4.658 min Scan# 1032
 Delta R.T. 0.000 min
 Lab File: VU054320.D
 Acq: 30 May 2023 17:44

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-02-20230524

Tgt Ion: 96 Resp: 119505

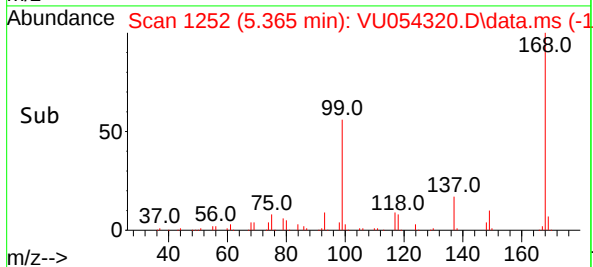
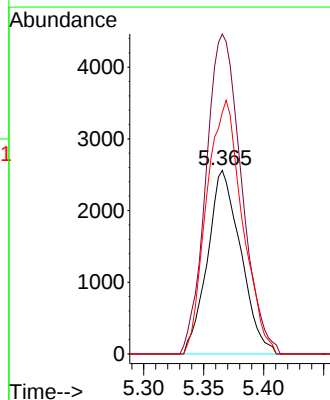
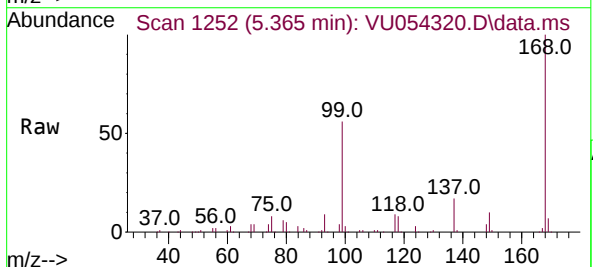
Ion	Ratio	Lower	Upper
96	100		
61	129.1	0.0	271.6
98	63.4	0.0	128.2

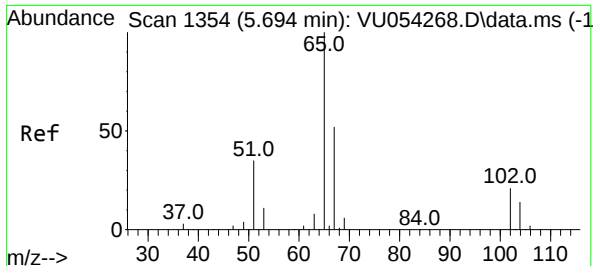


#31
 Cyclohexane
 Concen: 1.053 ug/l
 RT: 5.365 min Scan# 1252
 Delta R.T. -0.016 min
 Lab File: VU054320.D
 Acq: 30 May 2023 17:44

Tgt Ion: 56 Resp: 4938

Ion	Ratio	Lower	Upper
56	100		
69	174.3	27.8	41.8#
84	131.5	74.2	111.4#





#33

1,2-Dichloroethane-d4

Concen: 52.643 ug/l

RT: 5.693 min Scan# 11

Delta R.T. -0.001 min

Lab File: VU054320.D

Acq: 30 May 2023 17:44

Instrument :

MSVOA_U

ClientSampleId :

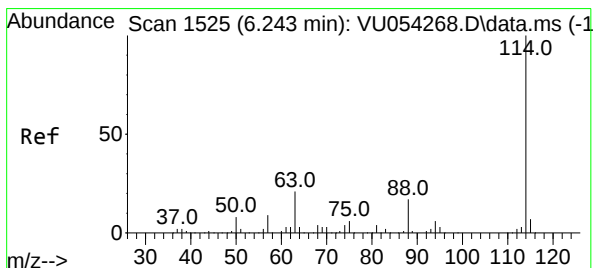
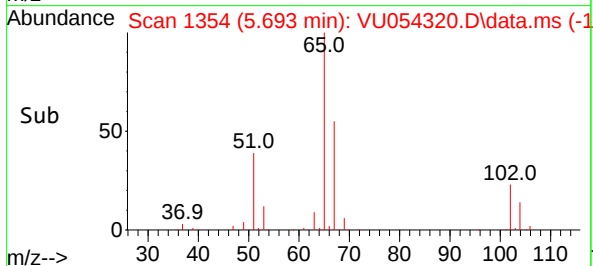
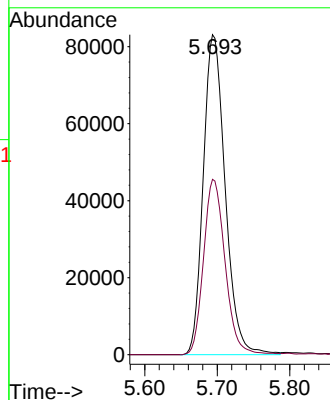
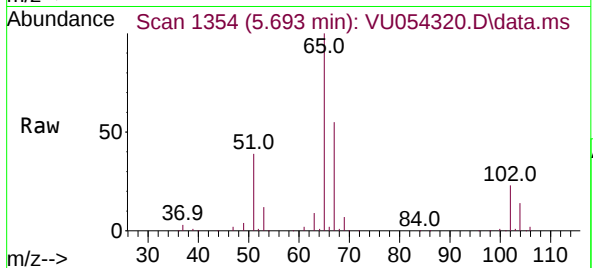
DUP-02-20230524

Tgt Ion: 65 Resp: 174752

Ion Ratio Lower Upper

65 100

67 53.7 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.243 min Scan# 1525

Delta R.T. 0.000 min

Lab File: VU054320.D

Acq: 30 May 2023 17:44

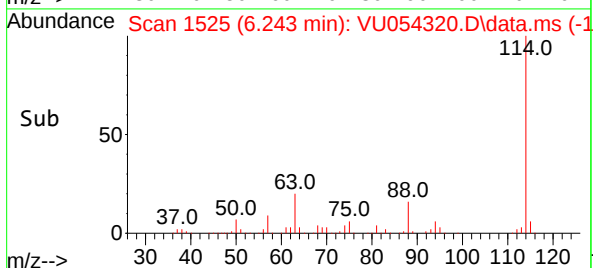
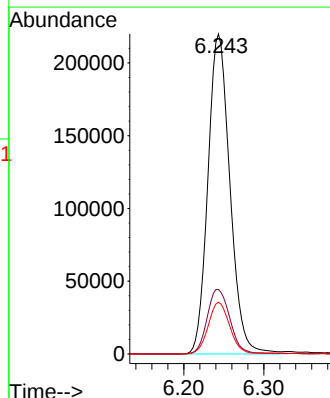
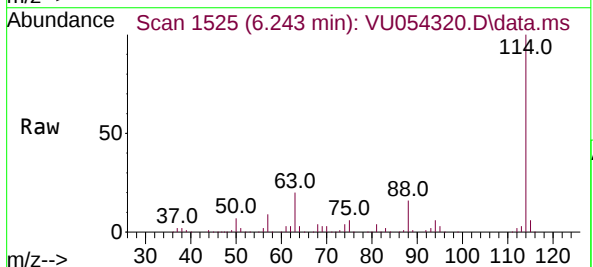
Tgt Ion: 114 Resp: 420383

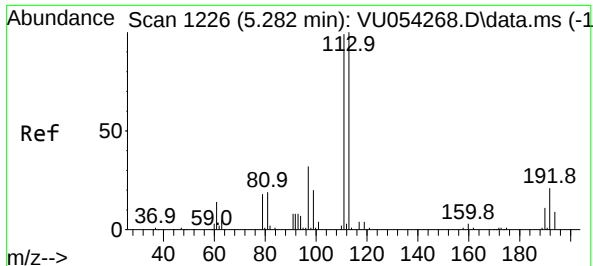
Ion Ratio Lower Upper

114 100

63 20.1 0.0 37.8

88 16.1 0.0 29.2

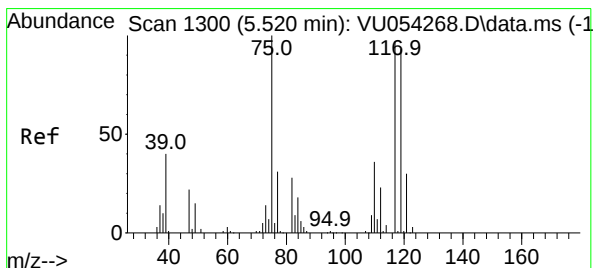
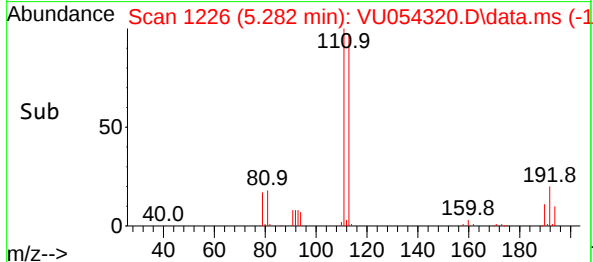
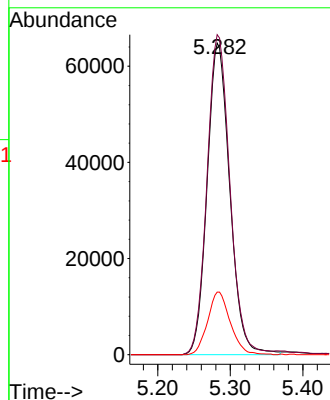
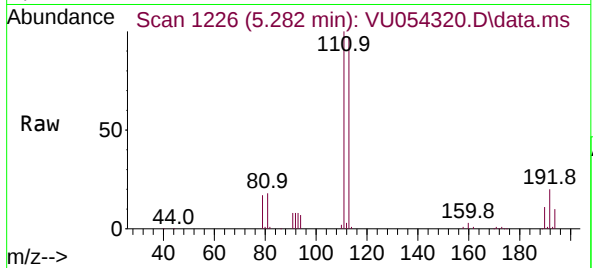




#35
Dibromofluoromethane
Concen: 52.004 ug/l
RT: 5.282 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

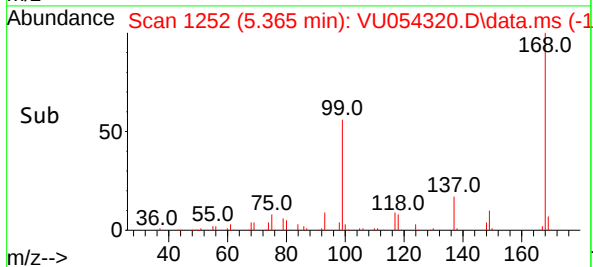
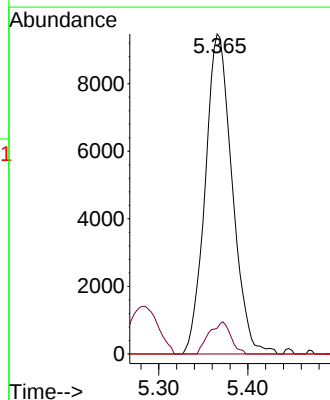
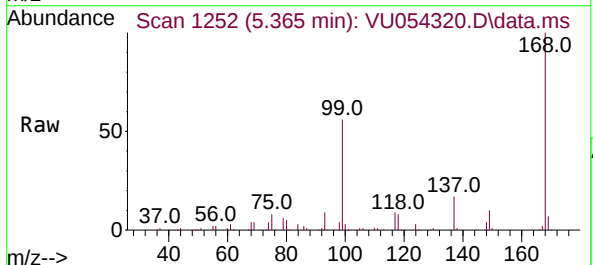
Instrument :
MSVOA_U
ClientSampleId :
DUP-02-20230524

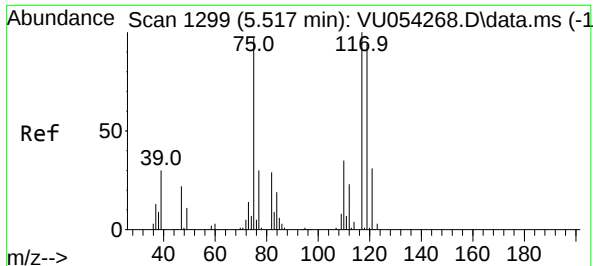
Tgt Ion:113 Resp: 140783
Ion Ratio Lower Upper
113 100
111 103.9 82.1 123.1
192 20.1 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.682 ug/l
RT: 5.365 min Scan# 1252
Delta R.T. -0.154 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

Tgt Ion: 75 Resp: 19909
Ion Ratio Lower Upper
75 100
110 8.1 18.4 55.2#
77 0.0 25.1 37.7#

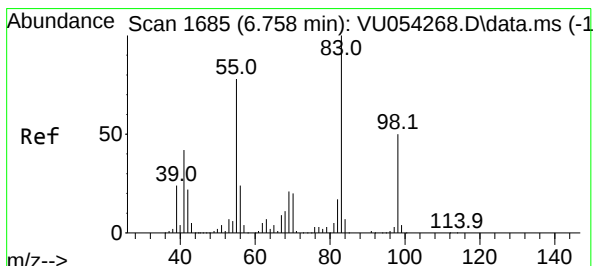
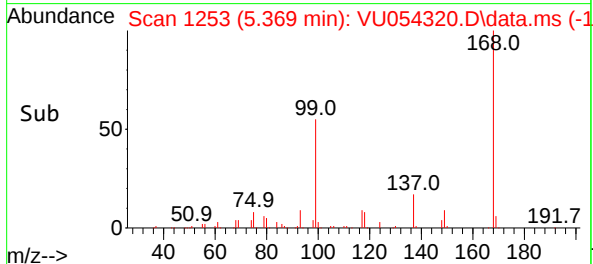
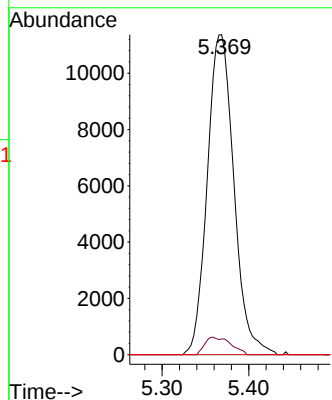
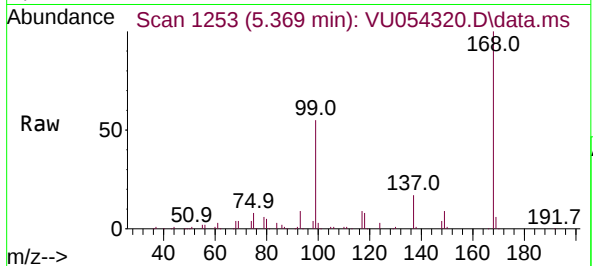




#38
Carbon Tetrachloride
Concen: 5.579 ug/l
RT: 5.369 min Scan# 11
Delta R.T. -0.148 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

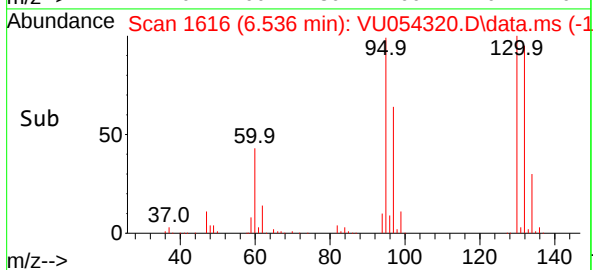
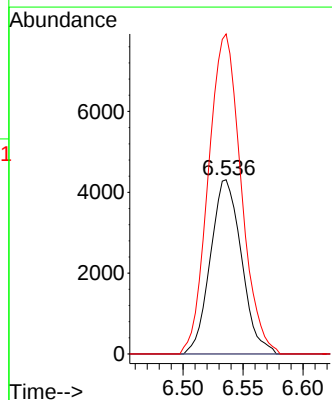
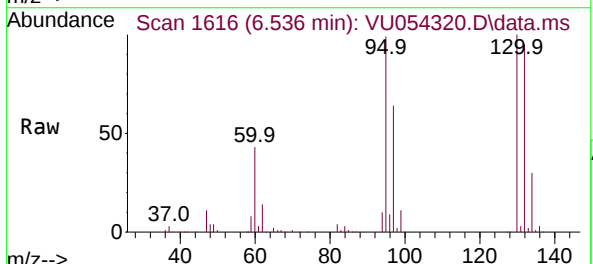
Instrument :
MSVOA_U
ClientSampleId :
DUP-02-20230524

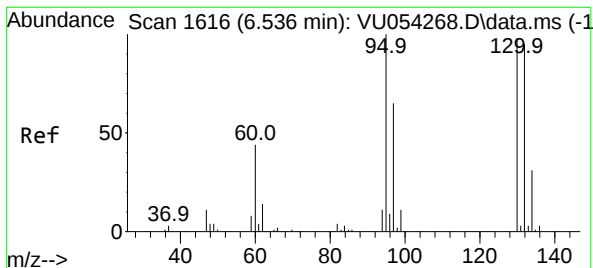
Tgt Ion:117 Resp: 24280
Ion Ratio Lower Upper
117 100
119 4.9 76.8 115.2#
121 0.0 24.7 37.1#



#39
Methylcyclohexane
Concen: 1.614 ug/l
RT: 6.536 min Scan# 1616
Delta R.T. -0.222 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

Tgt Ion: 83 Resp: 7774
Ion Ratio Lower Upper
83 100
55 0.0 55.3 82.9#
98 183.6 37.3 55.9#





#44

Trichloroethene

Concen: 178.092 ug/l

RT: 6.536 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU054320.D

Acq: 30 May 2023 17:44

Instrument :

MSVOA_U

ClientSampleId :

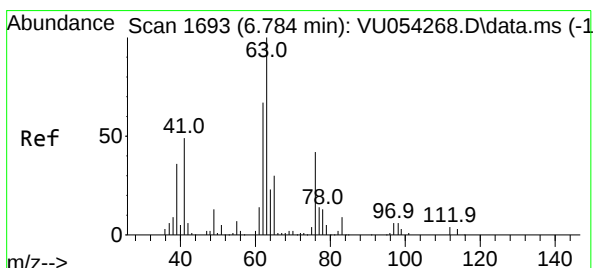
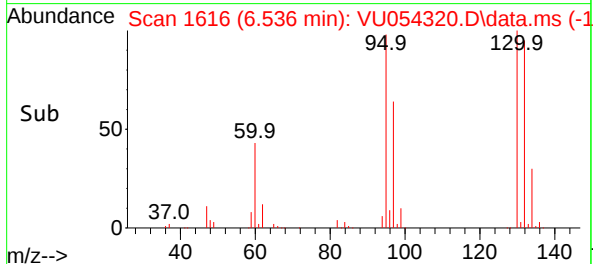
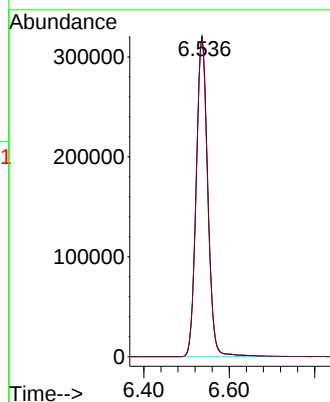
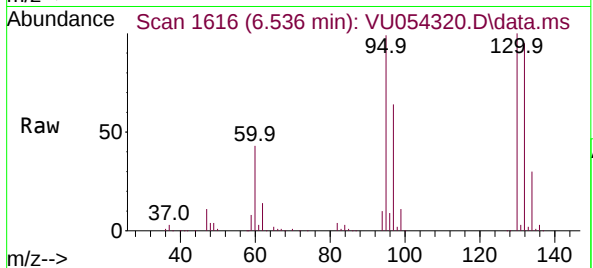
DUP-02-20230524

Tgt Ion:130 Resp: 603801

Ion Ratio Lower Upper

130 100

95 99.3 0.0 184.6



#45

1,2-Dichloropropane

Concen: 0.588 ug/l

RT: 6.533 min Scan# 1615

Delta R.T. -0.251 min

Lab File: VU054320.D

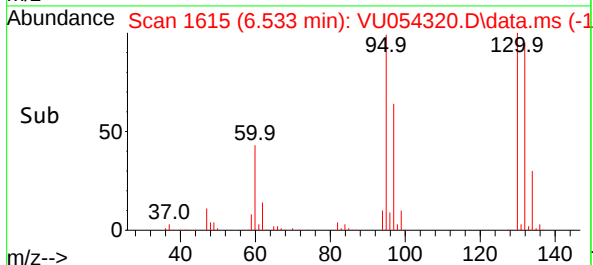
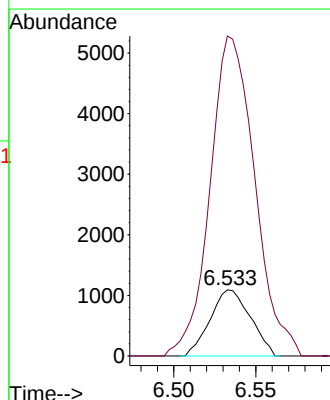
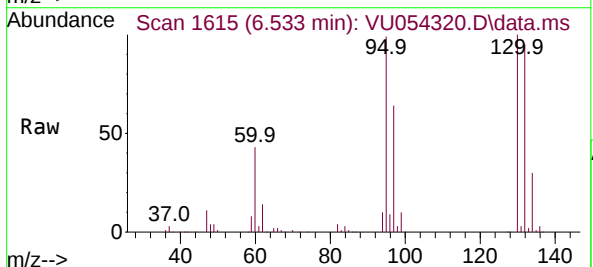
Acq: 30 May 2023 17:44

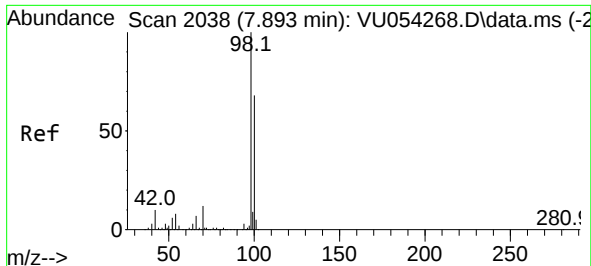
Tgt Ion: 63 Resp: 1860

Ion Ratio Lower Upper

63 100

65 461.9 25.0 37.4#

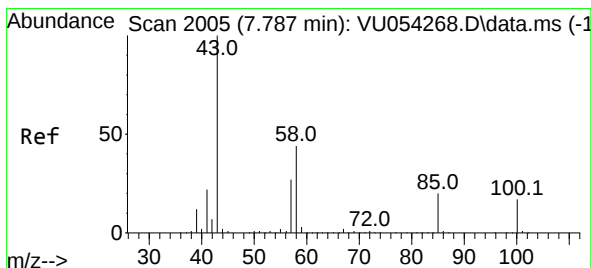
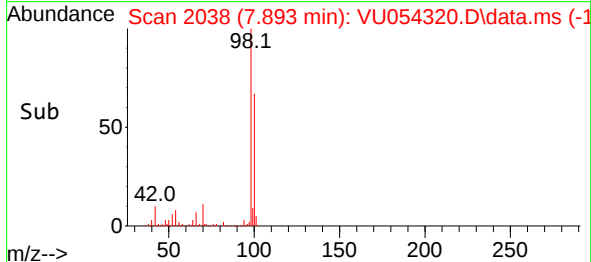
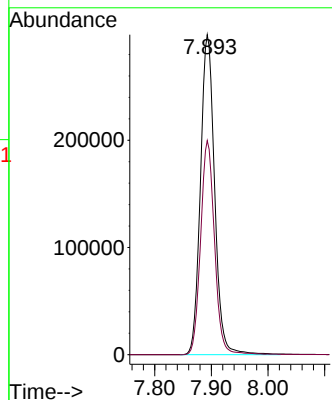
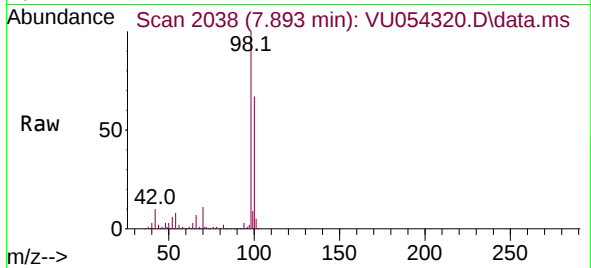




#50
Toluene-d8
Concen: 50.405 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

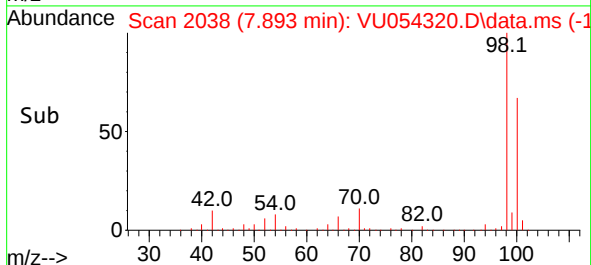
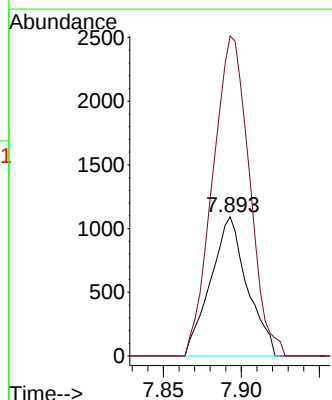
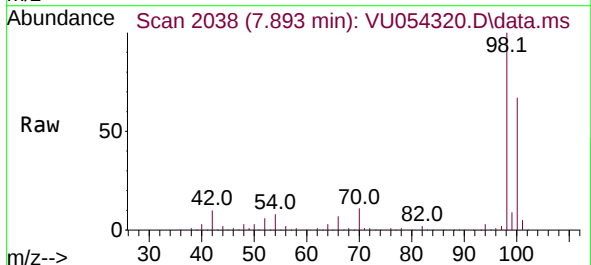
Instrument :
MSVOA_U
ClientSampleId :
DUP-02-20230524

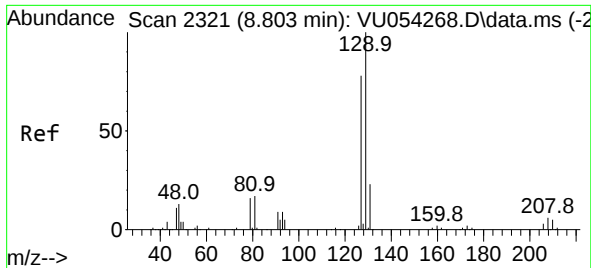
Tgt Ion: 98 Resp: 519036
Ion Ratio Lower Upper
98 100
100 65.8 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 0.374 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. 0.106 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

Tgt Ion: 43 Resp: 1783
Ion Ratio Lower Upper
43 100
58 230.3 34.7 52.1#

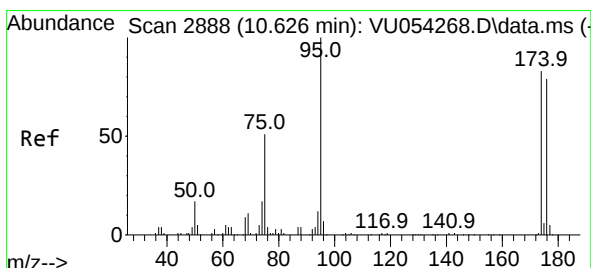
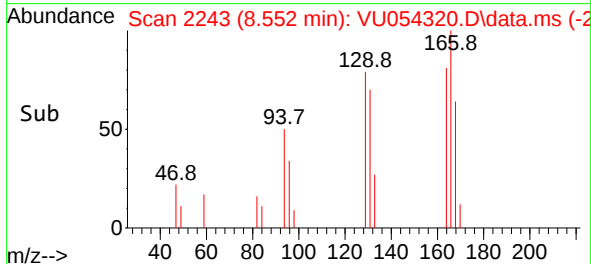
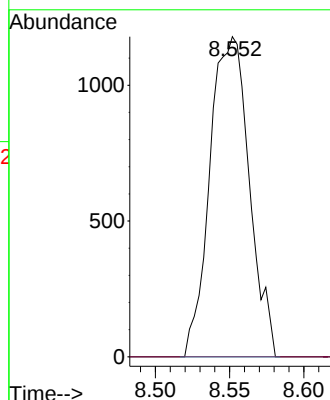
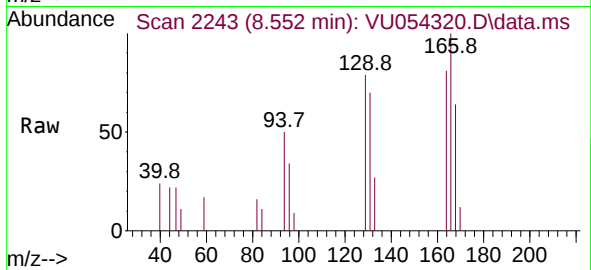




#60
Dibromochloromethane
Concen: 0.668 ug/l
RT: 8.552 min Scan# 21
Delta R.T. -0.251 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

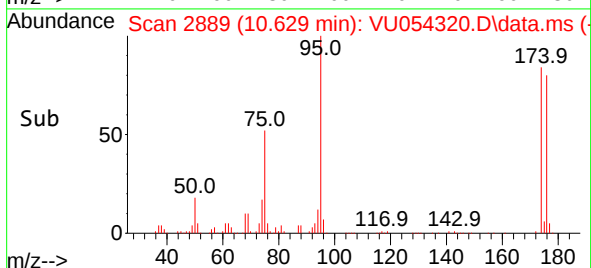
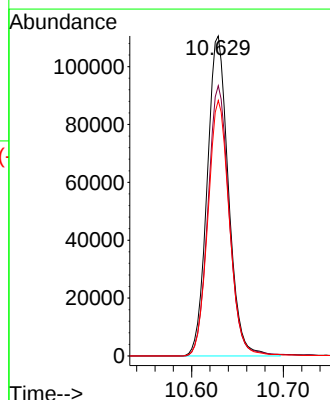
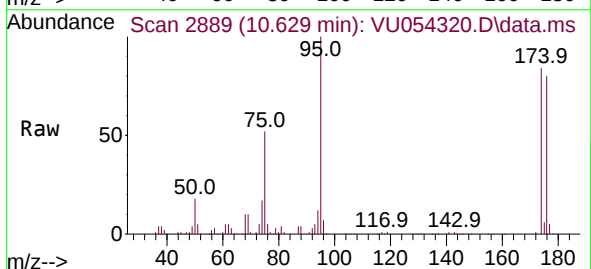
Instrument :
MSVOA_U
ClientSampleId :
DUP-02-20230524

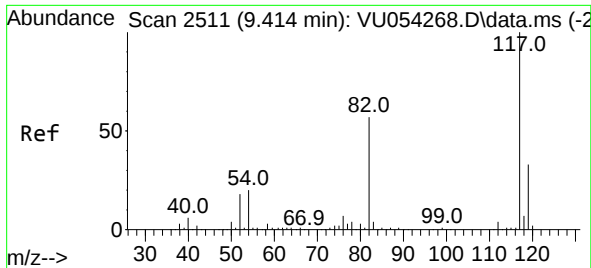
Tgt Ion:129 Resp: 2176
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 44.694 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. 0.003 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

Tgt Ion: 95 Resp: 178450
Ion Ratio Lower Upper
95 100
174 84.5 0.0 182.0
176 80.7 0.0 177.8

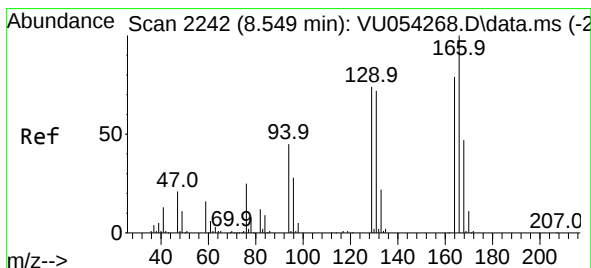
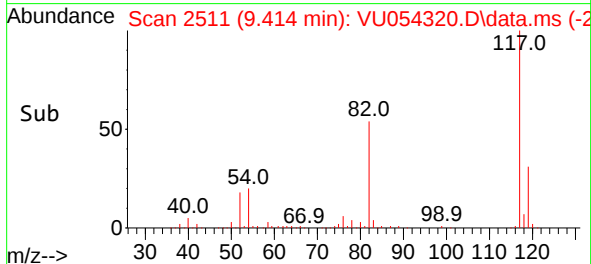
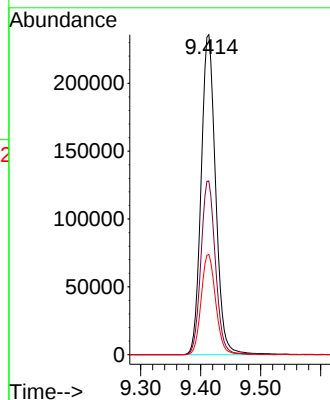
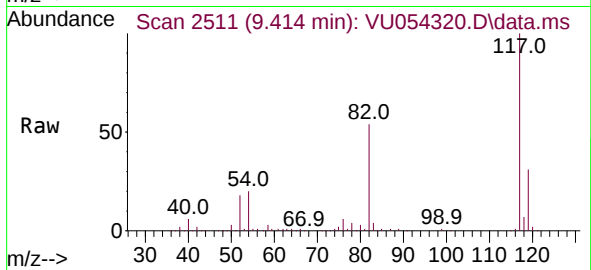




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.414 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

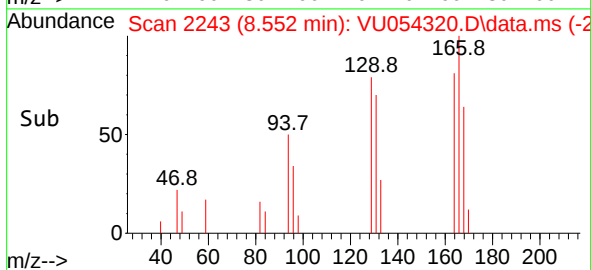
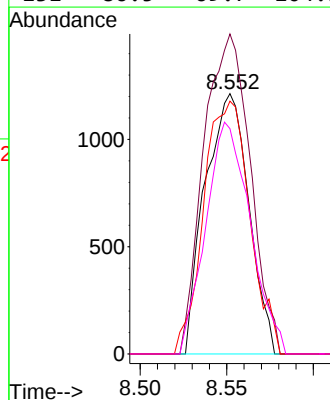
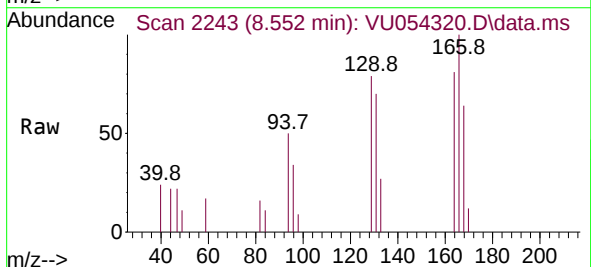
Instrument :
MSVOA_U
ClientSampleId :
DUP-02-20230524

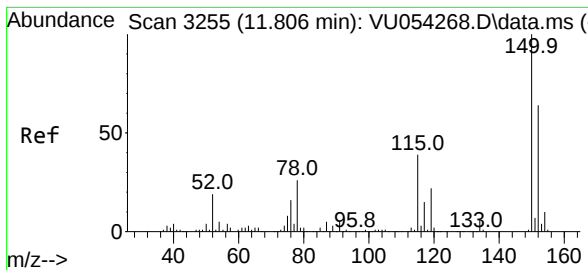
Tgt Ion:117 Resp: 397529
Ion Ratio Lower Upper
117 100
82 54.3 41.7 62.5
119 31.3 25.7 38.5



#64
Tetrachloroethene
Concen: 0.711 ug/l
RT: 8.552 min Scan# 2243
Delta R.T. 0.003 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

Tgt Ion:164 Resp: 2126
Ion Ratio Lower Upper
164 100
166 122.9 100.0 150.0
129 97.1 72.0 108.0
131 86.5 69.7 104.5

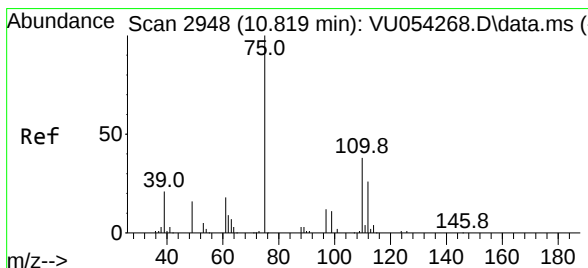
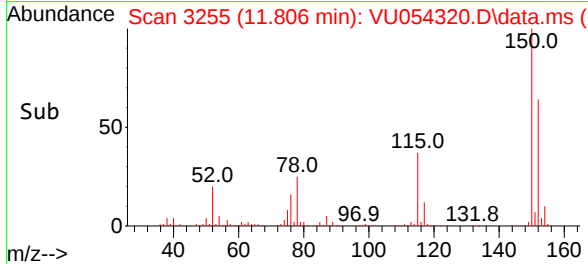
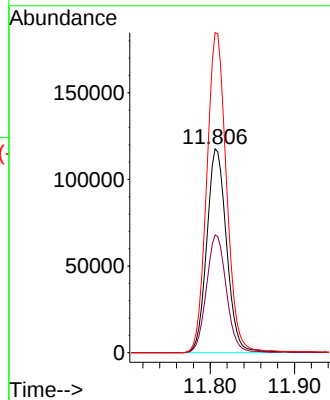
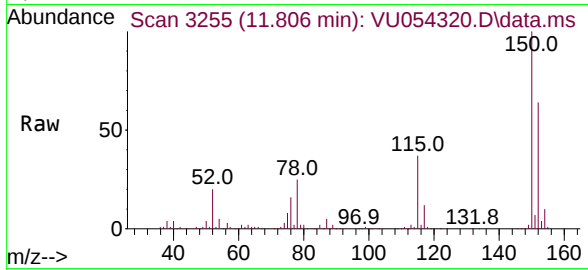




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

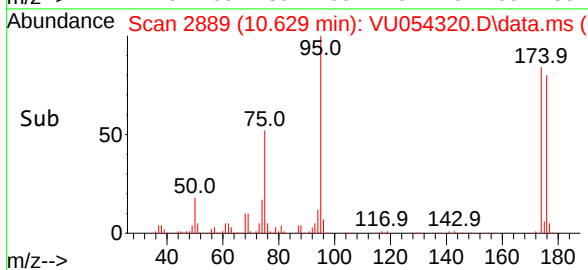
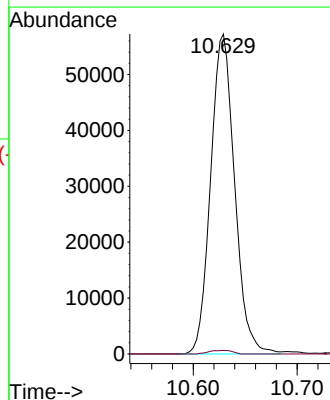
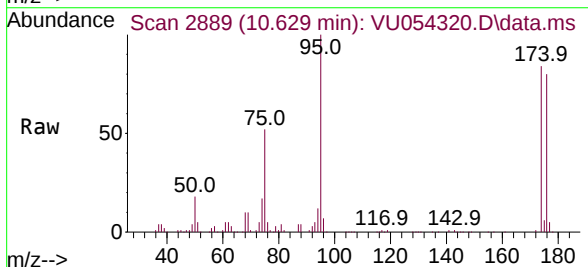
Instrument :
MSVOA_U
ClientSampleId :
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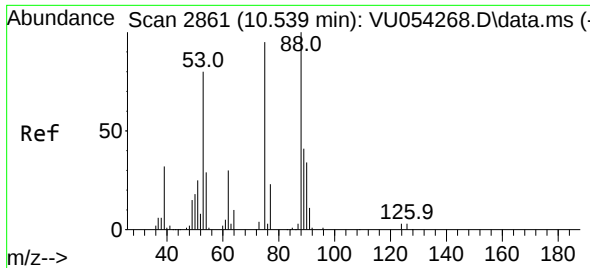
Tgt Ion:152 Resp: 192672
Ion Ratio Lower Upper
152 100
115 58.2 37.0 110.9
150 157.2 0.0 342.2



#76
1,2,3-Trichloropropane
Concen: 16.323 ug/l
RT: 10.629 min Scan# 2889
Delta R.T. -0.190 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

Tgt Ion: 75 Resp: 91791
Ion Ratio Lower Upper
75 100
77 1.1 15.8 47.3#

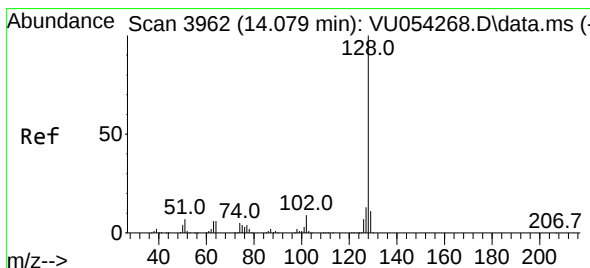
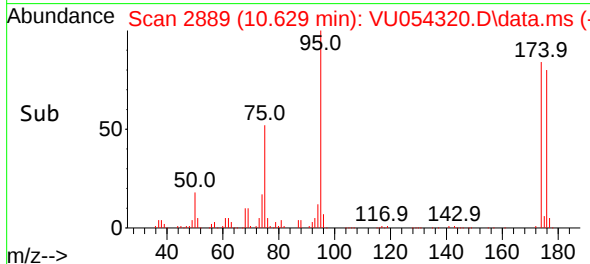
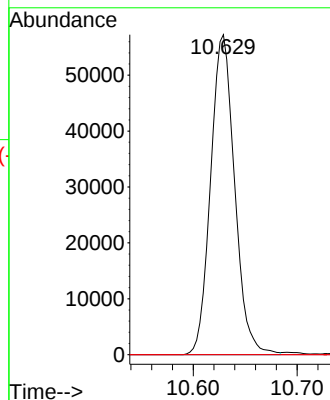
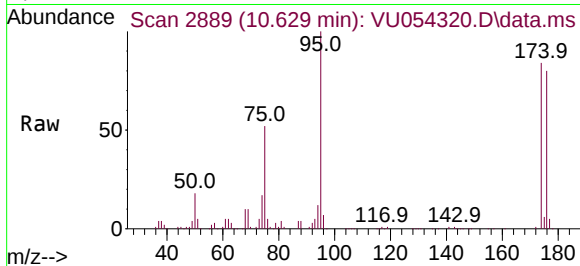




#81
trans-1,4-Dichloro-2-butene
Concen: 62.158 ug/l
RT: 10.629 min Scan# 21
Delta R.T. 0.090 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

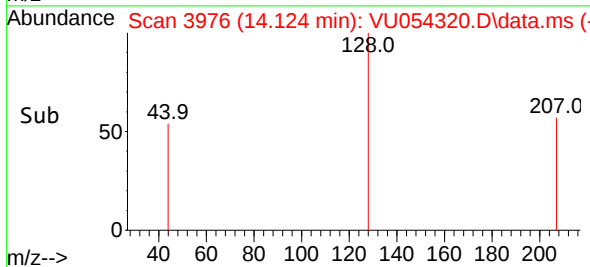
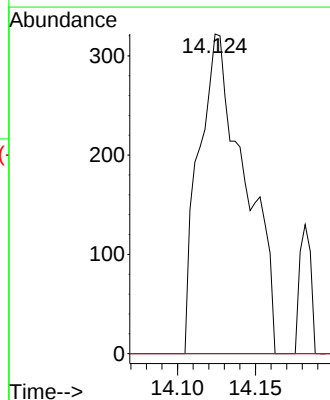
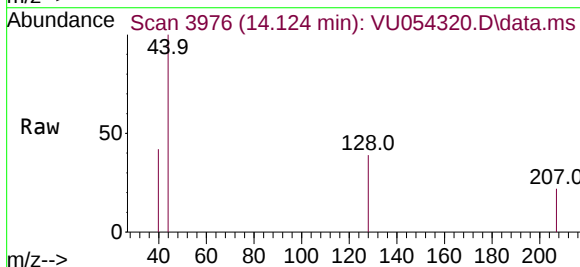
Instrument :
MSVOA_U
ClientSampleId :
DUP-02-20230524

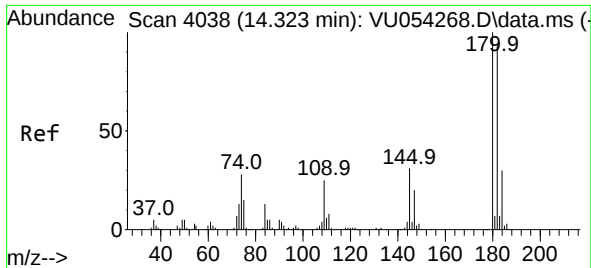
Tgt Ion: 75 Resp: 91791
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#



#95
Naphthalene
Concen: 2.036 ug/l
RT: 14.124 min Scan# 3976
Delta R.T. 0.045 min
Lab File: VU054320.D
Acq: 30 May 2023 17:44

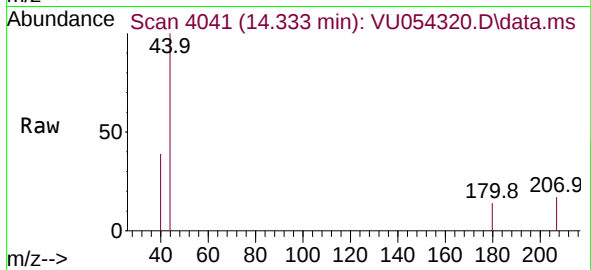
Tgt Ion: 128 Resp: 663
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.264 ug/l
 RT: 14.333 min Scan# 40
 Delta R.T. 0.010 min
 Lab File: VU054320.D
 Acq: 30 May 2023 17:44

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-02-20230524



Tgt Ion:180 Resp: 43
 Ion Ratio Lower Upper
 180 100
 182 416.3 48.4 145.0#
 145 0.0 14.8 44.4#

