

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU050423\
 Data File : VU054066.D
 Acq On : 04 May 2023 16:51
 Operator : JC/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050090

Quant Time: May 05 04:36:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042923WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri May 05 04:34:01 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	243412	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.410	117	233327	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.806	152	131342	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	59486	32.313	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	64.620%
7) Chloroethane-d5	1.906	69	44775	37.052	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	74.100%
11) 1,1-Dichloroethene-d2	2.565	63	127595	39.077	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.160%
21) 2-Butanone-d5	4.620	46	108419	103.260	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.260%
24) Chloroform-d	5.057	84	149855	44.321	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.640%
26) 1,2-Dichloroethane-d4	5.694	65	94943	43.735	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.460%
32) Benzene-d6	5.719	84	274356	39.947	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	79.900%
36) 1,2-Dichloropropane-d6	6.684	67	88589	40.859	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	81.720%
41) Toluene-d8	7.893	98	253925	40.952	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	81.900%
43) trans-1,3-Dichloroprop...	8.172	79	45605	42.503	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.000%
47) 2-Hexanone-d5	8.629	63	71305	91.820	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.820%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	134168	46.979	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.960%
66) 1,2-Dichlorobenzene-d4	12.188	152	114222	44.517	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.040%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.382	85	85122	48.470	ug/L	98
3) Chloromethane	1.520	50	76955	47.679	ug/L	96
5) Vinyl chloride	1.604	62	84440	49.187	ug/L	96
6) Bromomethane	1.854	94	44160	46.146	ug/L	95
8) Chloroethane	1.928	64	47295	50.557	ug/L	100
9) Trichlorofluoromethane	2.134	101	135223	49.637	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	81808	50.212	ug/L	100
12) 1,1-Dichloroethene	2.578	96	67671	47.928	ug/L	89
13) Acetone	2.629	43	110147	106.880	ug/L	98
14) Carbon disulfide	2.790	76	146364	46.705	ug/L	98
15) Methyl Acetate	2.944	43	83867	51.964	ug/L	100
16) Methylene chloride	3.041	84	90688	50.927	ug/L	94
17) trans-1,2-Dichloroethene	3.350	96	71518	49.536	ug/L	98
18) Methyl tert-butyl Ether	3.356	73	266889	50.282	ug/L	99
19) 1,1-Dichloroethane	3.864	63	154784	49.932	ug/L	99
20) cis-1,2-Dichloroethene	4.661	96	87842	49.511	ug/L	96
22) 2-Butanone	4.700	43	133913	110.061	ug/L	99
23) Bromochloromethane	4.967	128	46239	50.270	ug/L	98
25) Chloroform	5.079	83	167330	51.153	ug/L	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.787	62	128374	51.021	ug/L	98
29) Cyclohexane	5.382	56	112088	46.482	ug/L	99
30) 1,1,1-Trichloroethane	5.311	97	142193	48.892	ug/L	99
31) Carbon tetrachloride	5.520	117	118557	47.783	ug/L	98
33) Benzene	5.767	78	331015	48.740	ug/L	100
34) Trichloroethene	6.536	95	85926	47.670	ug/L	99
35) Methylcyclohexane	6.758	83	117956	46.660	ug/L	99
37) 1,2-Dichloropropane	6.783	63	91911	47.835	ug/L	99
38) Bromodichloromethane	7.099	83	118392	48.908	ug/L	99
39) cis-1,3-Dichloropropene	7.600	75	146696	48.805	ug/L	95
40) 4-Methyl-2-pentanone	7.783	43	227217	101.475	ug/L	99
42) Toluene	7.963	91	351150	49.666	ug/L	99
44) trans-1,3-Dichloropropene	8.205	75	138673	48.546	ug/L	98
45) 1,1,2-Trichloroethane	8.394	97	91838	49.382	ug/L	97
46) Tetrachloroethene	8.549	164	67599	47.272	ug/L	99
48) 2-Hexanone	8.677	43	187453	105.635	ug/L	99
49) Dibromochloromethane	8.803	129	89728	48.962	ug/L	99
50) 1,2-Dibromoethane	8.915	107	94921	50.285	ug/L	100
51) Chlorobenzene	9.443	112	234328	49.552	ug/L	99
52) Ethylbenzene	9.565	91	390819	49.114	ug/L	99
53) m,p-Xylene	9.690	106	147057	49.215	ug/L	95
54) o-Xylene	10.095	106	149338	51.086	ug/L	97
55) Styrene	10.108	104	256729	51.203	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.777	83	145198	49.562	ug/L	99
59) Bromoform	10.285	173	70660	48.054	ug/L	99
60) 1,2,3-Trichloropropane	10.815	75	116225	47.640	ug/L	99
61) Isopropylbenzene	10.478	105	398522	48.067	ug/L	100
62) 1,3,5-Trimethylbenzene	11.082	105	331210	48.751	ug/L	100
63) 1,2,4-Trimethylbenzene	11.462	105	329255	49.168	ug/L	99
64) 1,3-Dichlorobenzene	11.738	146	196026	48.343	ug/L	99
65) 1,4-Dichlorobenzene	11.832	146	198405	48.044	ug/L	98
67) 1,2-Dichlorobenzene	12.208	146	199071	48.644	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.989	75	29568	47.507	ug/L	94
69) 1,3,5-Trichlorobenzene	13.214	180	145114	49.387	ug/L	100
70) 1,2,4-trichlorobenzene	13.835	180	129256	48.523	ug/L	98
71) Naphthalene	14.079	128	376936	48.786	ug/L	99
72) 1,2,3-Trichlorobenzene	14.323	180	131964	49.801	ug/L	100

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

Instrument :
MSVOA_U
ClientSampleId :
VSTD050090

Abundance

TIC: VU054066.D\data.ms

Time-->

1,1-Dichloroethane, T

1,2-Dichloroethane, T

1,1,1-Trichloroethane, T

1,2-Dichloroethane-d4, T

1,3-Dichlorobenzene, T

1,2-Dibromo-3-chloropropane, T

1,2,4-trichlorobenzene, T

1,2,3-Trichlorobenzene, T

1,3,5-Trichlorobenzene, T

1,3,4,5-Tetrachlorobenzene, T

1,2,4,5-Tetrachlorobenzene, T

1,2,3,4-Tetrachlorobenzene, T

1,2,3,5-Tetrachlorobenzene, T

1,2,3,4,5-Pentachlorobenzene, T

1,2,3,4,6-Pentachlorobenzene, T

1,2,3,5,6-Pentachlorobenzene, T

1,2,3,4,5,6-Hexachlorobenzene, T

1,2,3,4,5,6,7-Heptachlorobenzene, T

1,2,3,4,5,6,7,8-Octachlorobenzene, T

1,2,3,4,5,6,7,8,9-Nonachlorobenzene, T

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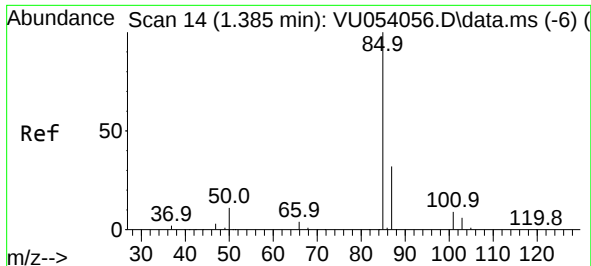
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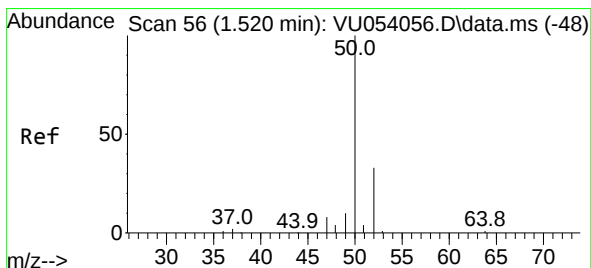
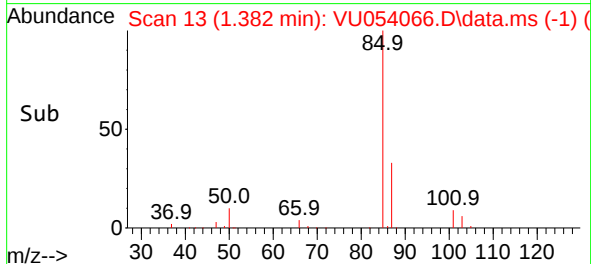
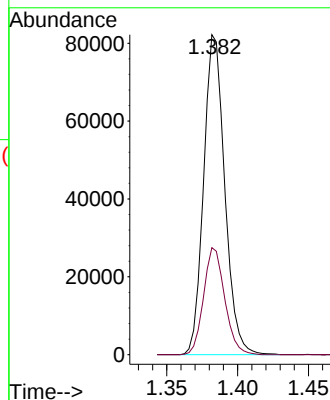
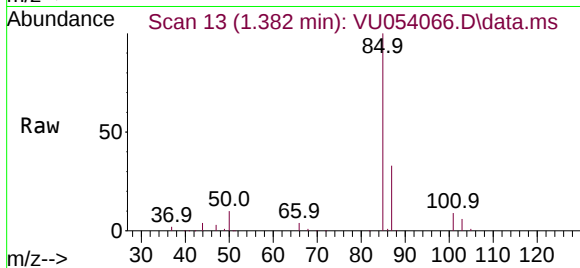
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#2
Dichlorodifluoromethane
Concen: 48.470 ug/L
RT: 1.382 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU054066.D
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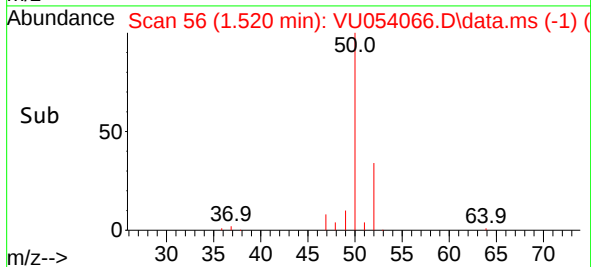
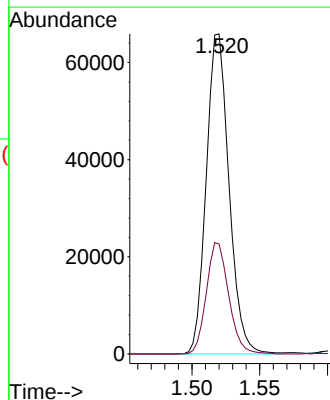
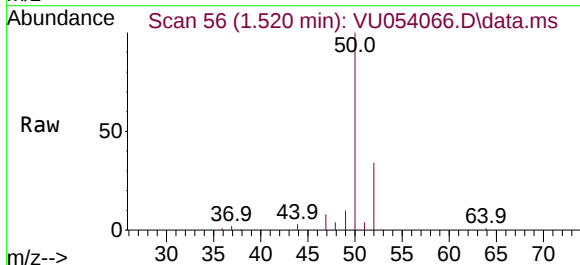
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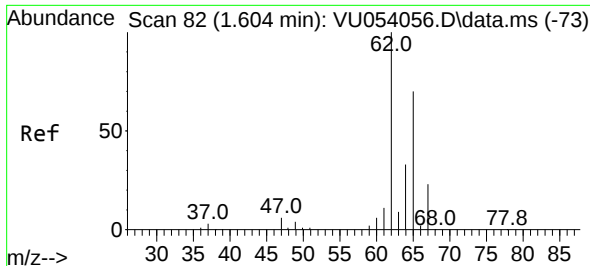
Tgt Ion: 85 Resp: 85122
Ion Ratio Lower Upper
85 100
87 33.4 26.0 39.0



#3
Chloromethane
Concen: 47.679 ug/L
RT: 1.520 min Scan# 56
Delta R.T. -0.000 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Tgt Ion: 50 Resp: 76955
Ion Ratio Lower Upper
50 100
52 34.3 22.4 41.6

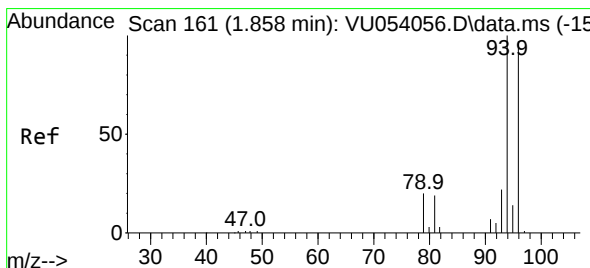
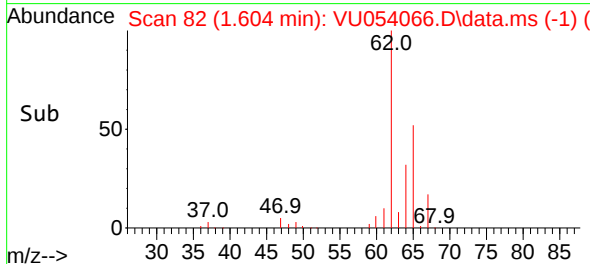
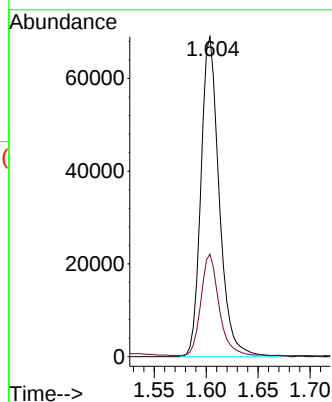
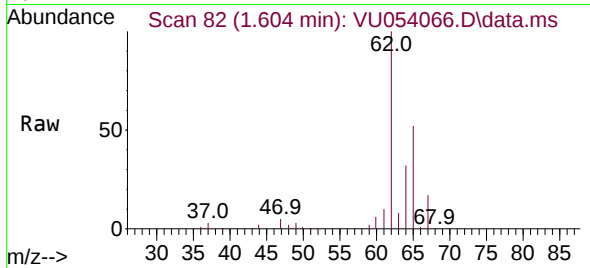




#5
 Vinyl chloride
 Concen: 49.187 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU054066.D
 Acq: 04 May 2023 16:51

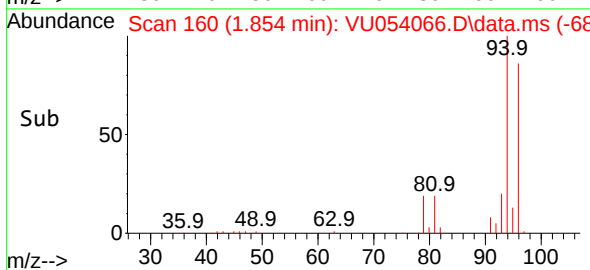
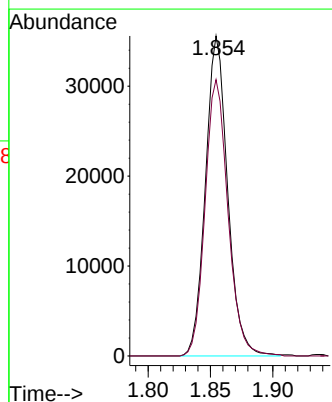
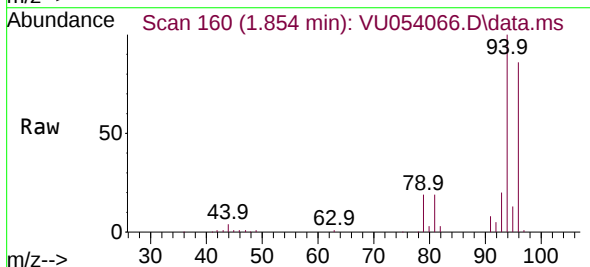
Instrument :
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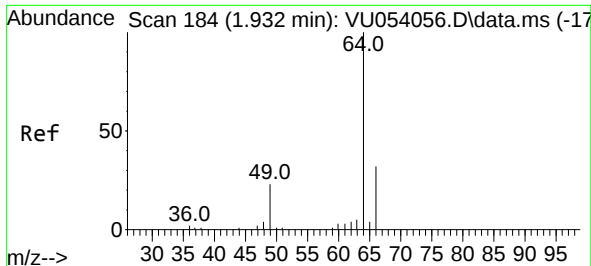
Tgt Ion: 62 Resp: 84440
 Ion Ratio Lower Upper
 62 100
 64 32.0 24.1 44.7



#6
 Bromomethane
 Concen: 46.146 ug/L
 RT: 1.854 min Scan# 160
 Delta R.T. -0.003 min
 Lab File: VU054066.D
 Acq: 04 May 2023 16:51

Tgt Ion: 94 Resp: 44160
 Ion Ratio Lower Upper
 94 100
 96 86.4 63.9 118.7

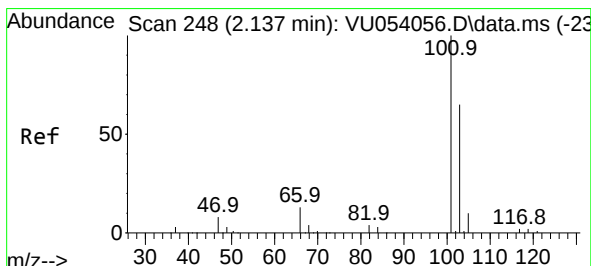
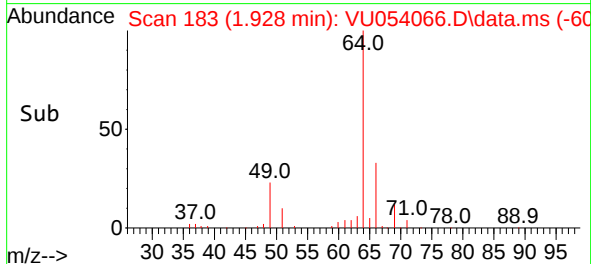
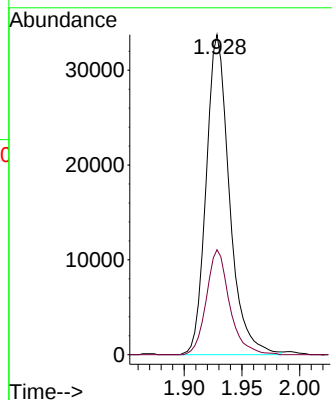
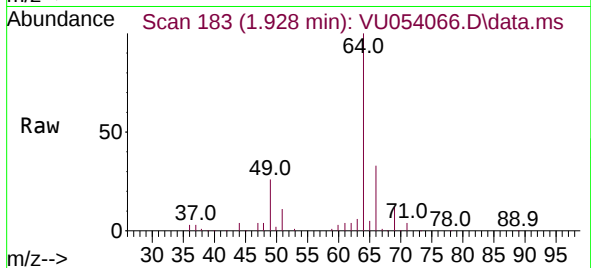




#8
Chloroethane
Concen: 50.557 ug/L
RT: 1.928 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

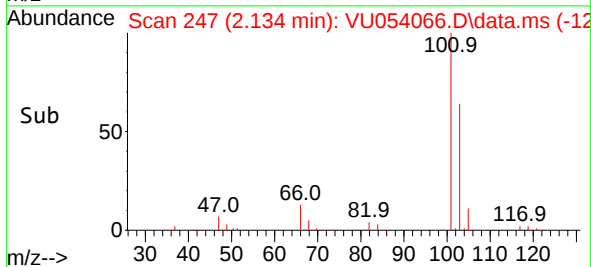
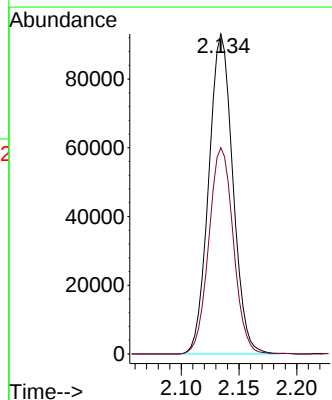
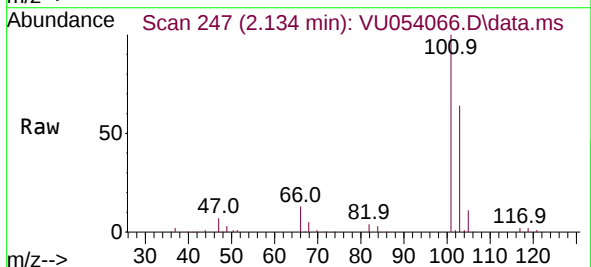
Instrument :
MSVOA_U
ClientSampleId :
VSTD050090

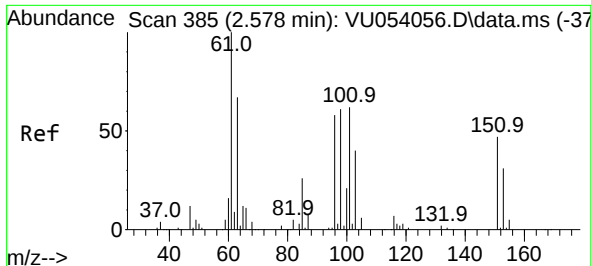
Tgt Ion: 64 Resp: 47295
Ion Ratio Lower Upper
64 100
66 32.8 23.1 42.9



#9
Trichlorofluoromethane
Concen: 49.637 ug/L
RT: 2.134 min Scan# 247
Delta R.T. -0.003 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Tgt Ion: 101 Resp: 135223
Ion Ratio Lower Upper
101 100
103 65.5 51.0 76.4

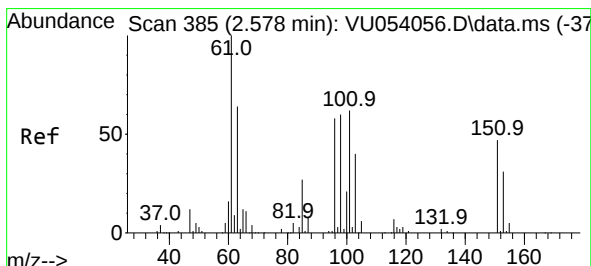
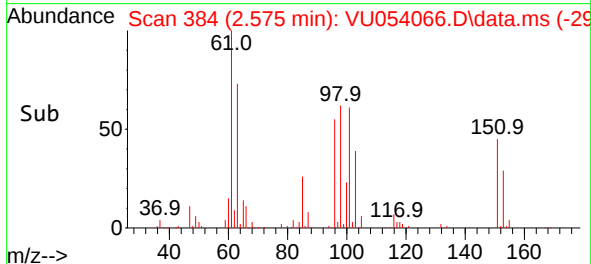
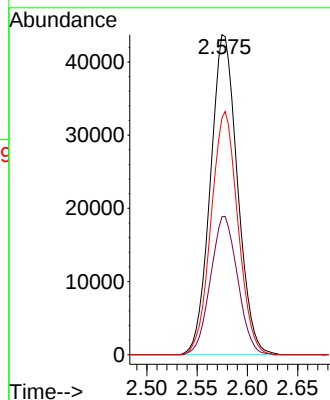
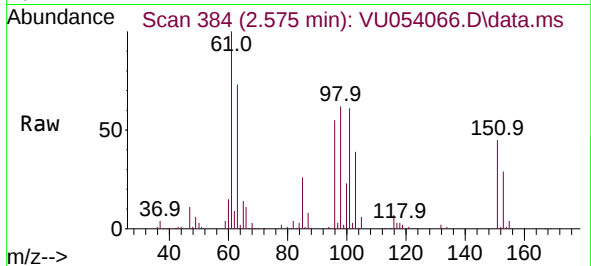




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 50.212 ug/L
RT: 2.575 min Scan# 384
Delta R.T. -0.003 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

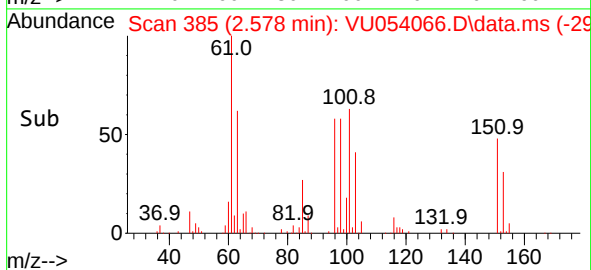
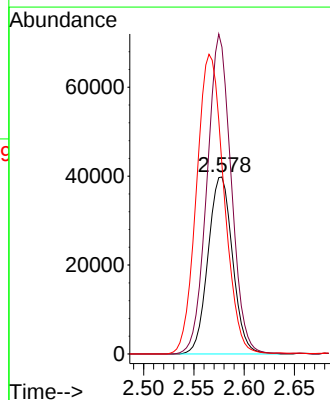
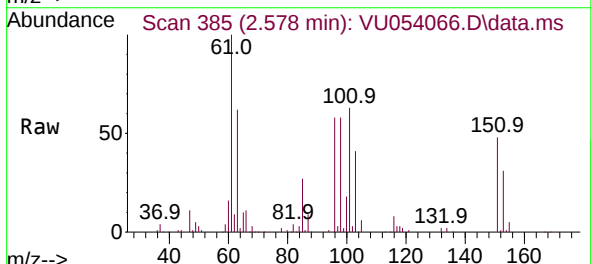
Instrument :
MSVOA_U
ClientSampleId :
VSTD050090

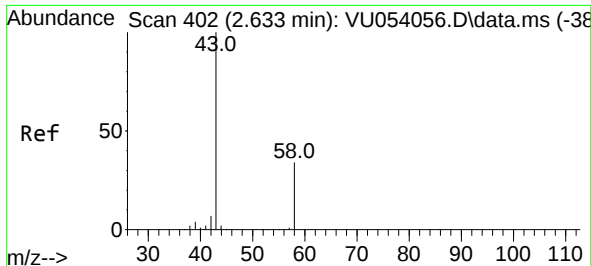
Tgt Ion:101 Resp: 81808
Ion Ratio Lower Upper
101 100
85 43.2 34.3 51.5
151 75.3 60.3 90.5



#12
1,1-Dichloroethene
Concen: 47.928 ug/L
RT: 2.578 min Scan# 385
Delta R.T. -0.000 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Tgt Ion: 96 Resp: 67671
Ion Ratio Lower Upper
96 100
61 173.3 118.3 219.7
63 106.8 92.3 171.5





#13

Acetone

Concen: 106.880 ug/L

RT: 2.629 min Scan# 401

Delta R.T. -0.003 min

Lab File: VU054066.D

Acq: 04 May 2023 16:51

Instrument :

MSVOA_U

ClientSampleId :

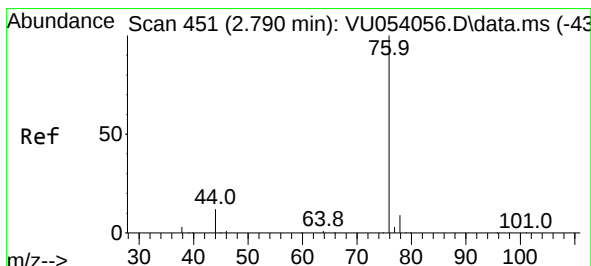
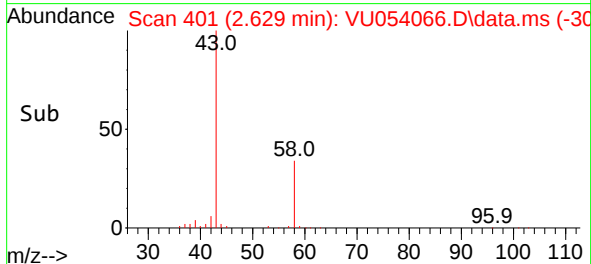
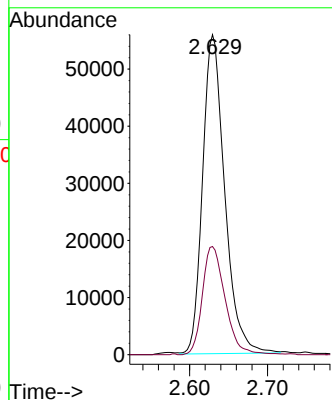
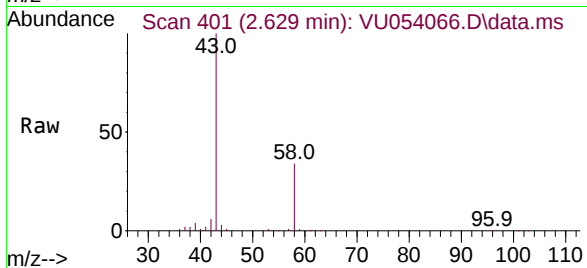
VSTD050090

Tgt Ion: 43 Resp: 110147

Ion Ratio Lower Upper

43 100

58 34.8 0.0 67.4



#14

Carbon disulfide

Concen: 46.705 ug/L

RT: 2.790 min Scan# 451

Delta R.T. -0.000 min

Lab File: VU054066.D

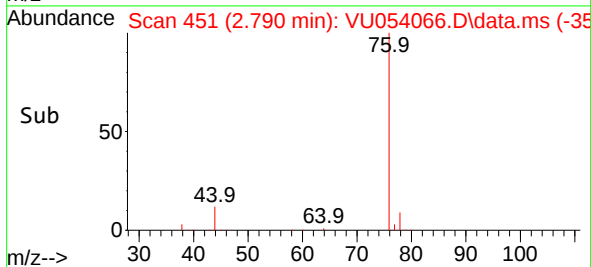
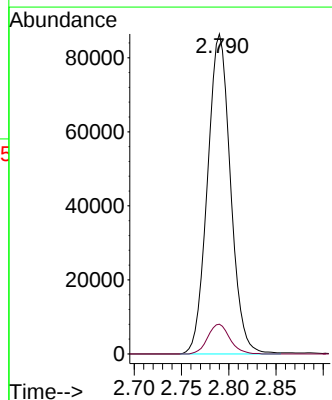
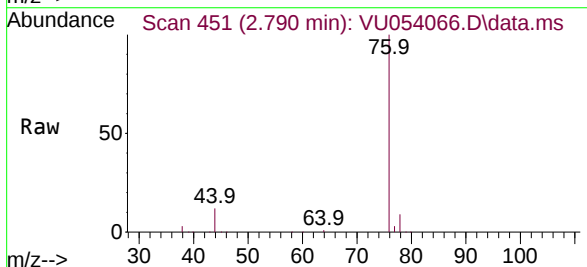
Acq: 04 May 2023 16:51

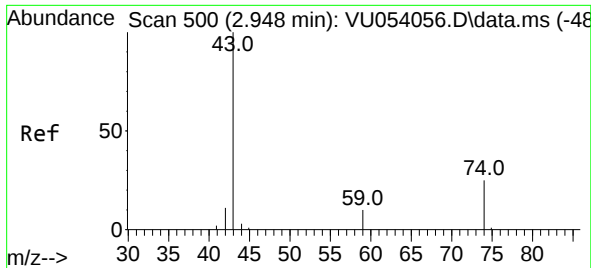
Tgt Ion: 76 Resp: 146364

Ion Ratio Lower Upper

76 100

78 9.3 7.0 10.4

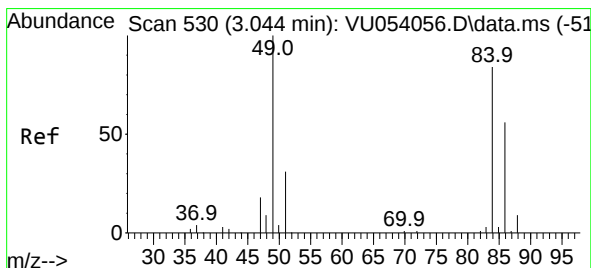
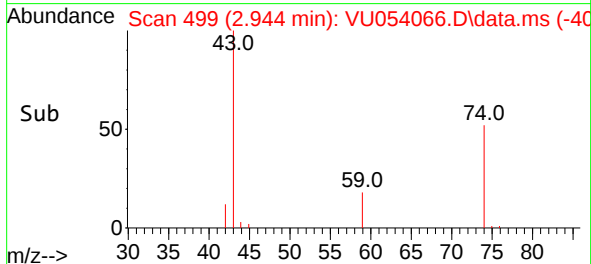
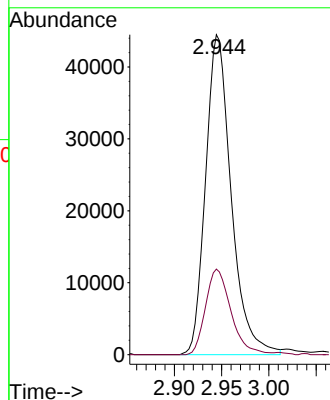
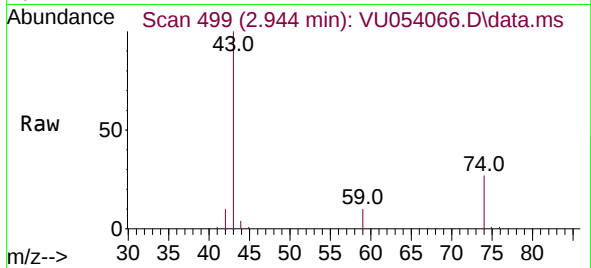




#15
Methyl Acetate
Concen: 51.964 ug/L
RT: 2.944 min Scan# 499
Delta R.T. -0.003 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

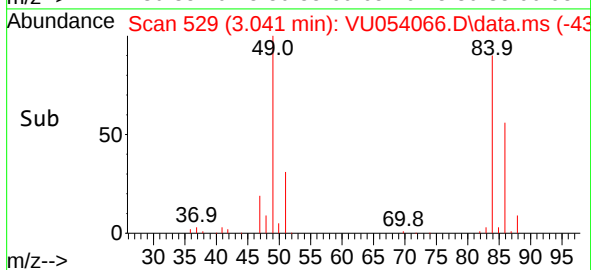
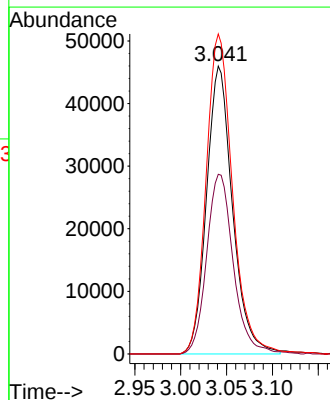
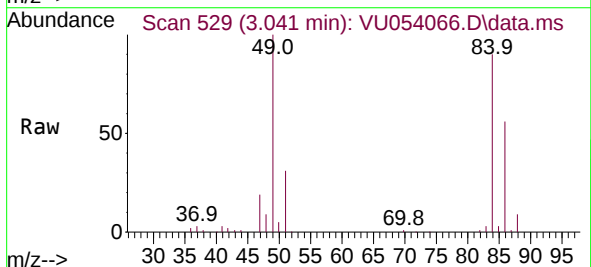
Instrument :
MSVOA_U
ClientSampleId :
VSTD050090

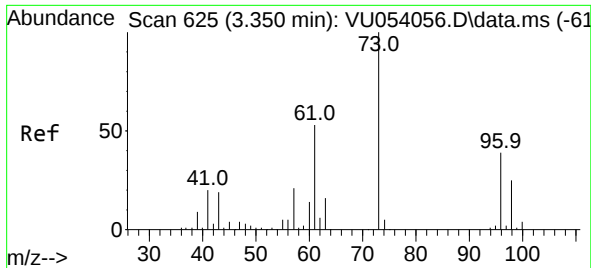
Tgt Ion: 43 Resp: 83867
Ion Ratio Lower Upper
43 100
74 26.5 21.2 31.8



#16
Methylene chloride
Concen: 50.927 ug/L
RT: 3.041 min Scan# 529
Delta R.T. -0.003 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Tgt Ion: 84 Resp: 90688
Ion Ratio Lower Upper
84 100
86 62.4 45.8 85.2
49 111.2 83.0 154.2

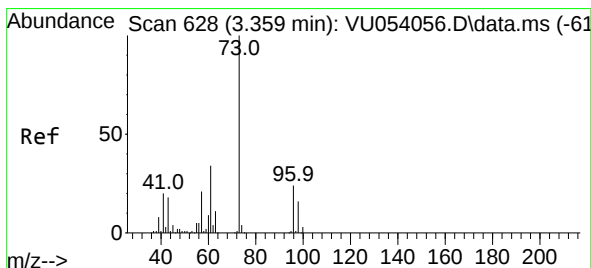
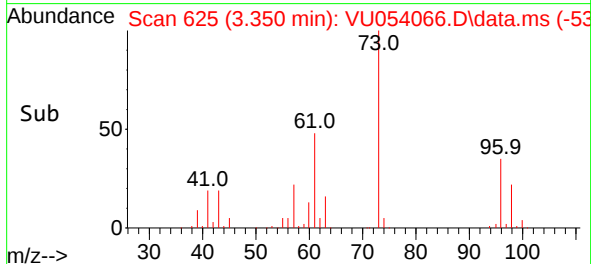
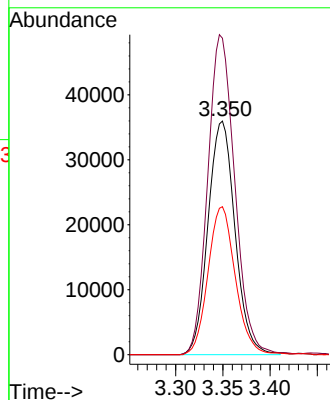
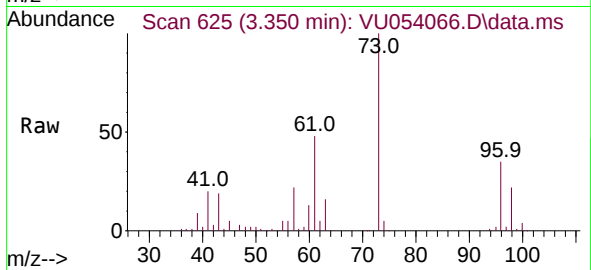




#17
trans-1,2-Dichloroethene
Concen: 49.536 ug/L
RT: 3.350 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

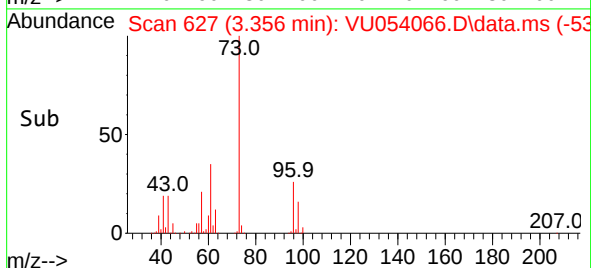
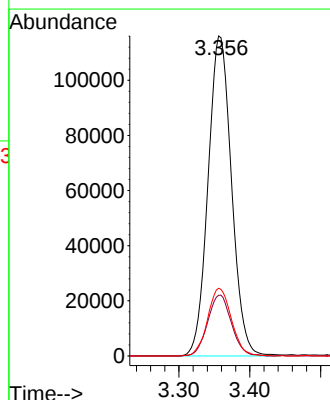
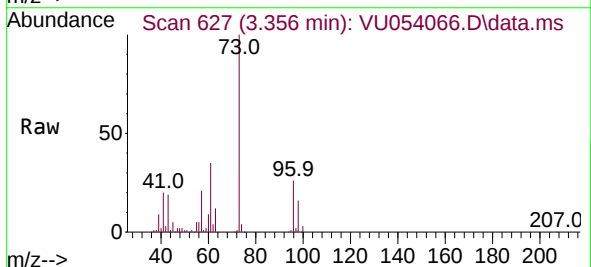
Instrument :
MSVOA_U
ClientSampleId :
VSTD050090

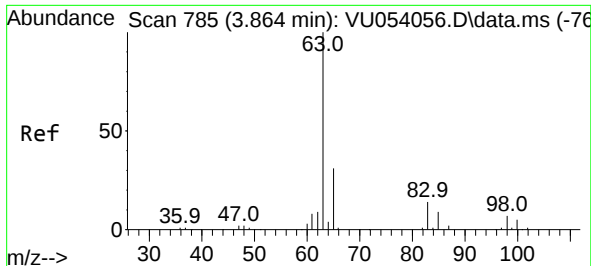
Tgt Ion: 96 Resp: 71518
Ion Ratio Lower Upper
96 100
61 135.5 97.5 181.1
98 63.4 44.8 83.2



#18
Methyl tert-butyl Ether
Concen: 50.282 ug/L
RT: 3.356 min Scan# 627
Delta R.T. -0.003 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Tgt Ion: 73 Resp: 266889
Ion Ratio Lower Upper
73 100
43 19.2 15.4 23.0
57 21.4 18.0 27.0

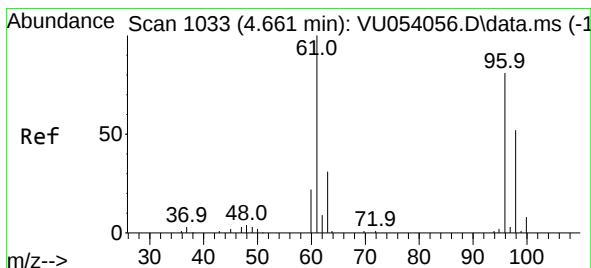
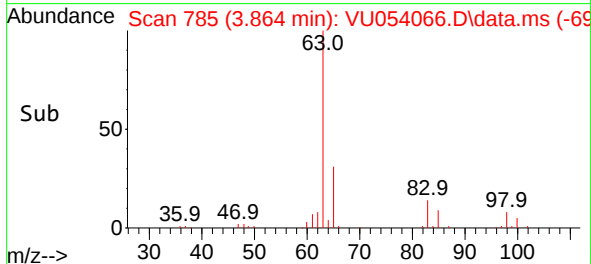
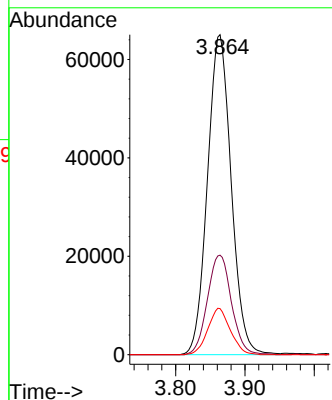
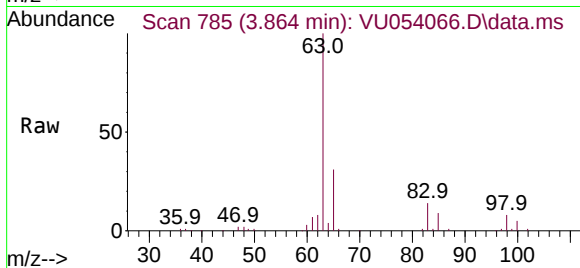




#19
1,1-Dichloroethane
Concen: 49.932 ug/L
RT: 3.864 min Scan# 785
Delta R.T. -0.000 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

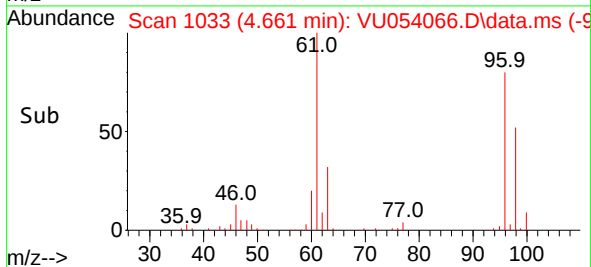
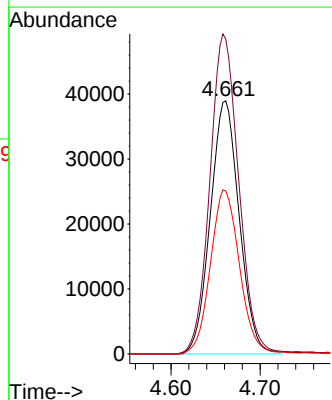
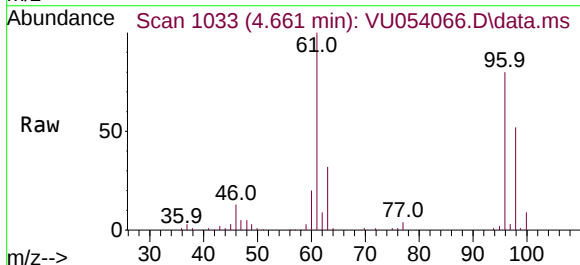
Instrument :
MSVOA_U
ClientSampleId :
VSTD050090

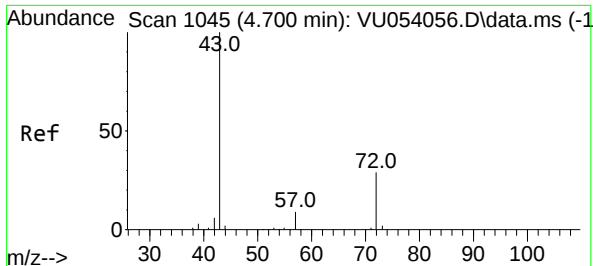
Tgt Ion: 63 Resp: 154784
Ion Ratio Lower Upper
63 100
65 31.1 22.0 40.8
83 14.4 9.9 18.3



#20
cis-1,2-Dichloroethene
Concen: 49.511 ug/L
RT: 4.661 min Scan# 1033
Delta R.T. -0.000 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Tgt Ion: 96 Resp: 87842
Ion Ratio Lower Upper
96 100
61 124.3 90.9 168.9
98 64.4 45.7 84.9

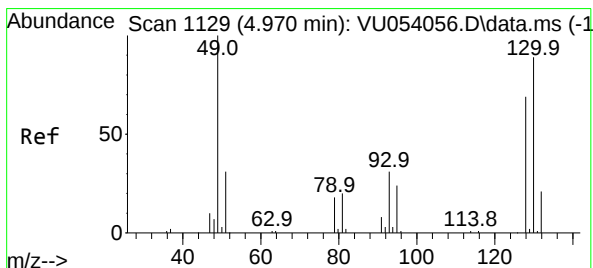
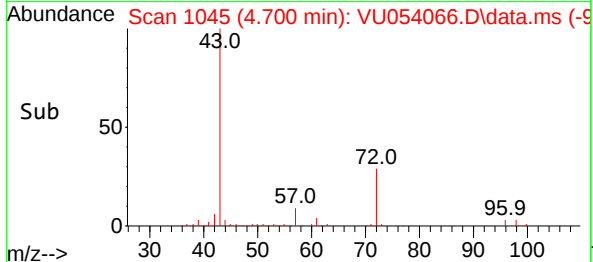
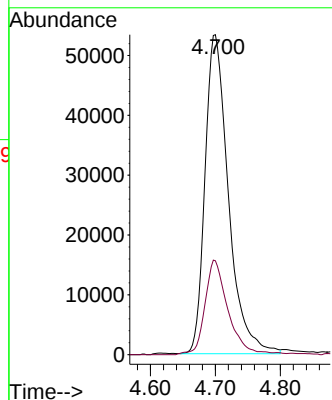
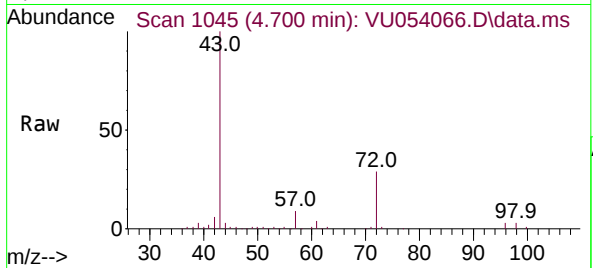




#22
2-Butanone
Concen: 110.061 ug/L
RT: 4.700 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

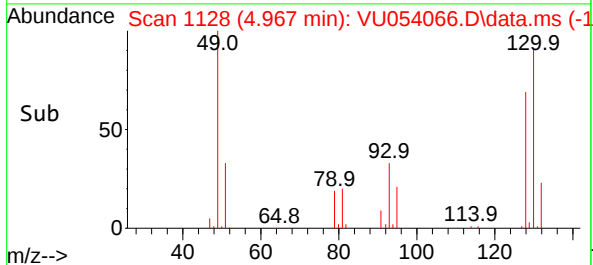
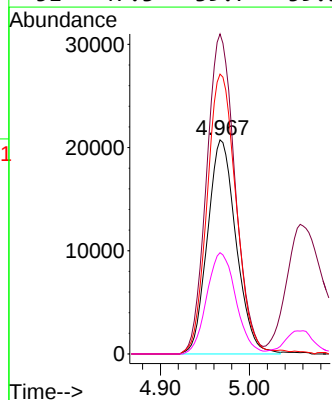
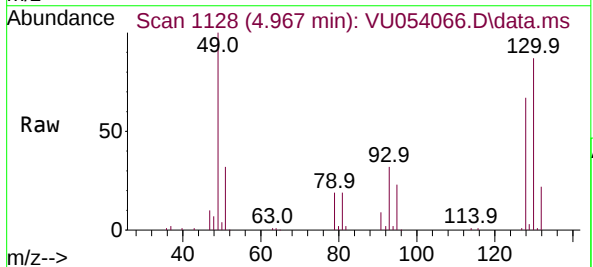
Instrument :
MSVOA_U
ClientSampleId :
VSTD050090

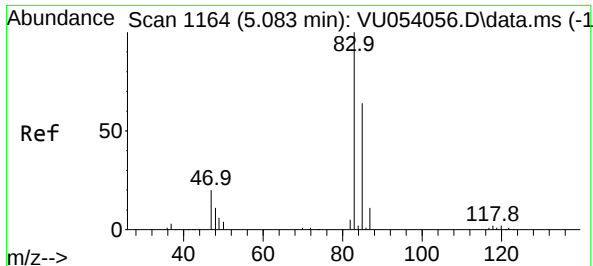
Tgt Ion: 43 Resp: 133913
Ion Ratio Lower Upper
43 100
72 28.5 14.0 41.9



#23
Bromochloromethane
Concen: 50.270 ug/L
RT: 4.967 min Scan# 1128
Delta R.T. -0.003 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Tgt Ion:128 Resp: 46239
Ion Ratio Lower Upper
128 100
49 149.5 107.5 199.7
130 130.7 91.0 169.0
51 47.3 39.7 59.5





#25

Chloroform

Concen: 51.153 ug/L

RT: 5.079 min Scan# 1163

Delta R.T. -0.003 min

Lab File: VU054066.D

Acq: 04 May 2023 16:51

Instrument :

MSVOA_U

ClientSampleId :

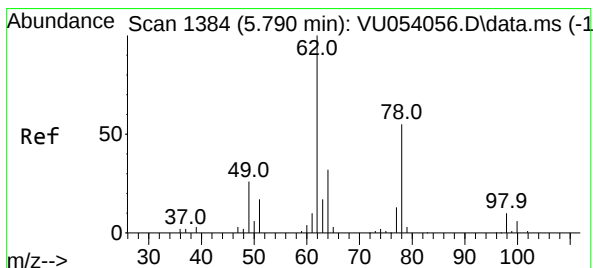
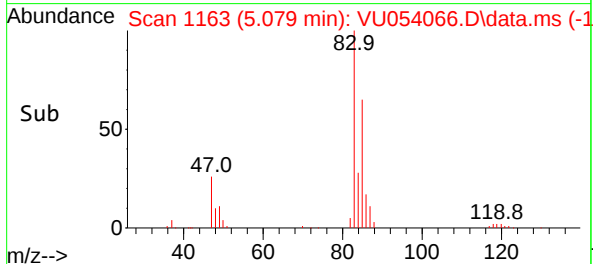
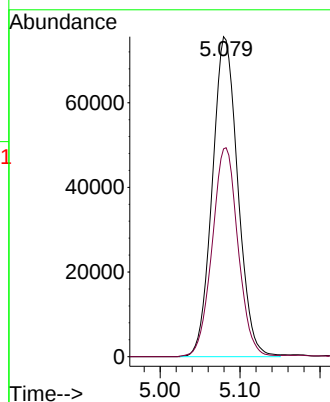
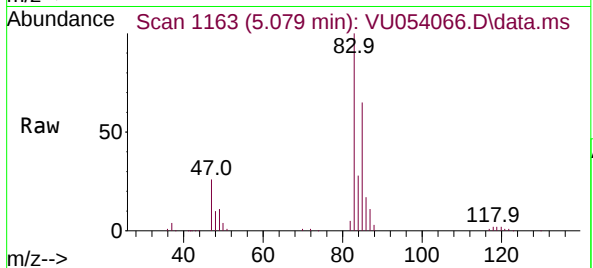
VSTD050090

Tgt Ion: 83 Resp: 167330

Ion Ratio Lower Upper

83 100

85 64.9 45.2 84.0



#27

1,2-Dichloroethane

Concen: 51.021 ug/L

RT: 5.787 min Scan# 1383

Delta R.T. -0.003 min

Lab File: VU054066.D

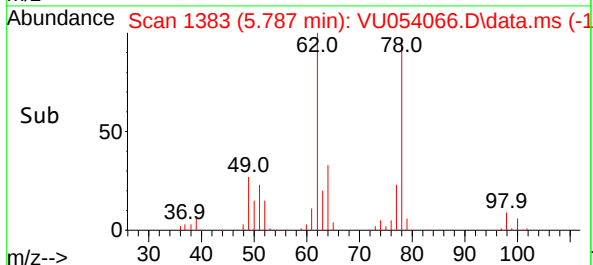
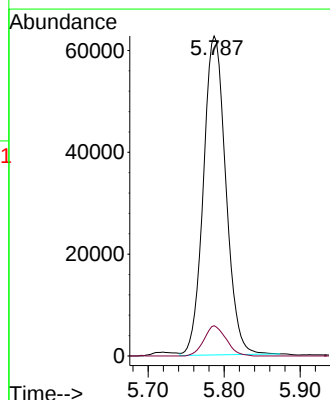
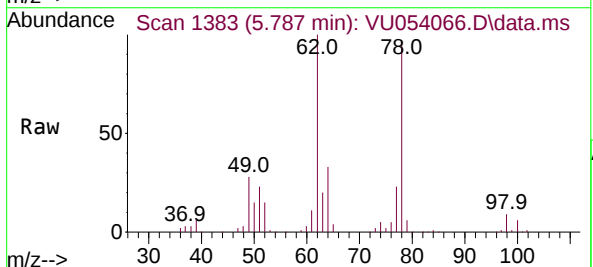
Acq: 04 May 2023 16:51

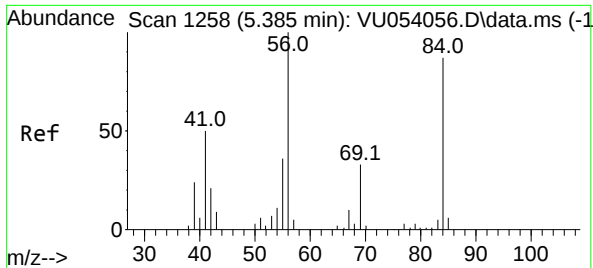
Tgt Ion: 62 Resp: 128374

Ion Ratio Lower Upper

62 100

98 9.4 8.0 12.0





#29

Cyclohexane

Concen: 46.482 ug/L

RT: 5.382 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU054066.D

Acq: 04 May 2023 16:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD050090

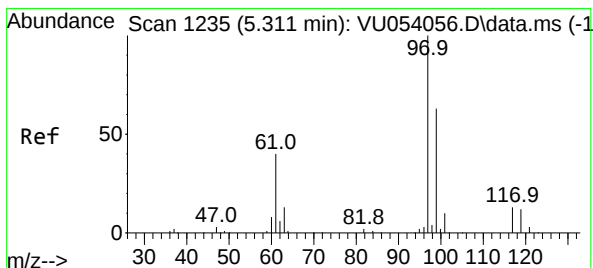
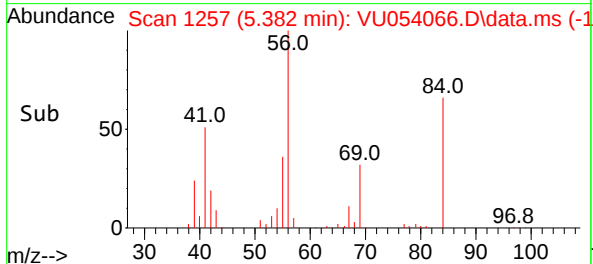
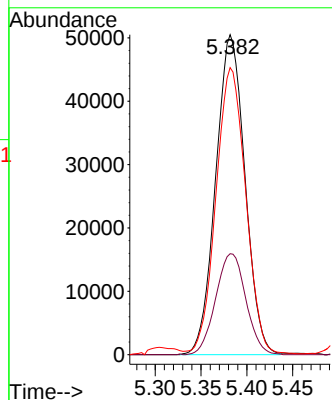
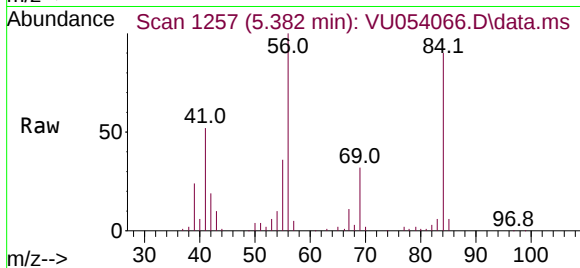
Tgt Ion: 56 Resp: 112088

Ion Ratio Lower Upper

56 100

69 32.5 25.8 38.6

84 91.0 73.6 110.4



#30

1,1,1-Trichloroethane

Concen: 48.892 ug/L

RT: 5.311 min Scan# 1235

Delta R.T. -0.000 min

Lab File: VU054066.D

Acq: 04 May 2023 16:51

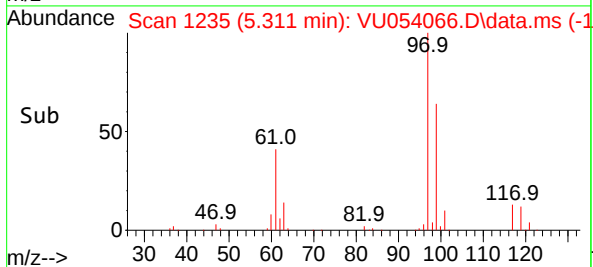
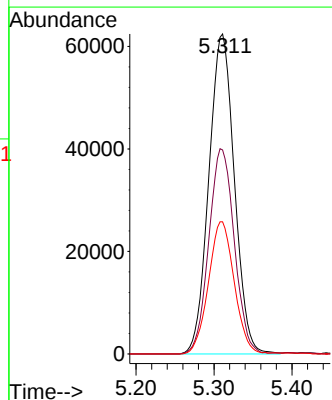
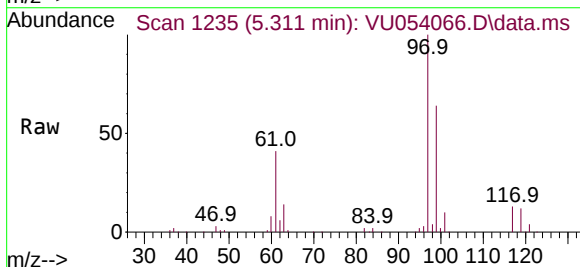
Tgt Ion: 97 Resp: 142193

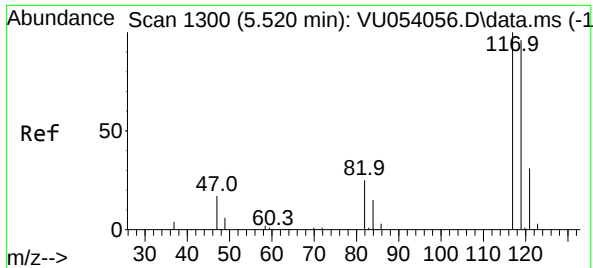
Ion Ratio Lower Upper

97 100

99 64.1 51.2 76.8

61 41.6 34.2 51.4

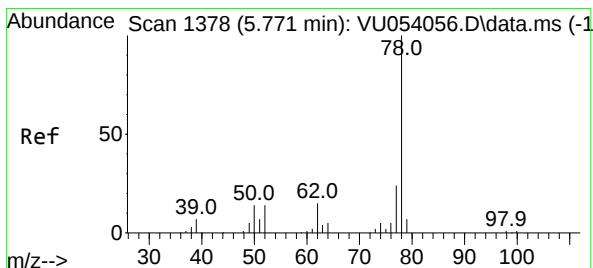
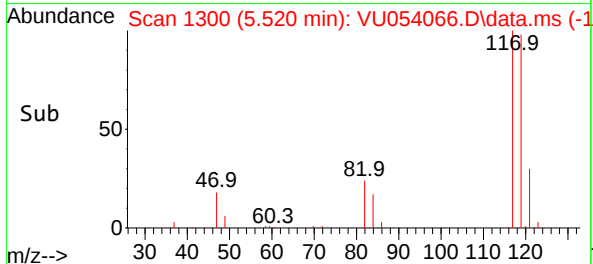
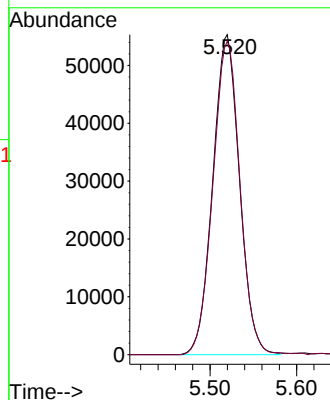
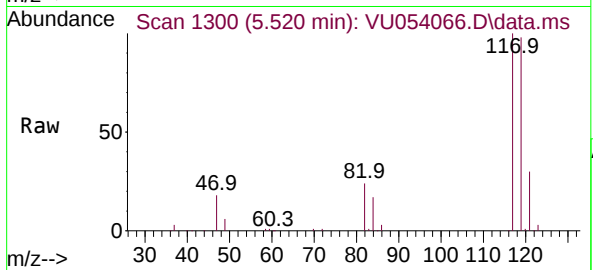




#31
Carbon tetrachloride
Concen: 47.783 ug/L
RT: 5.520 min Scan# 117
Delta R.T. -0.000 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

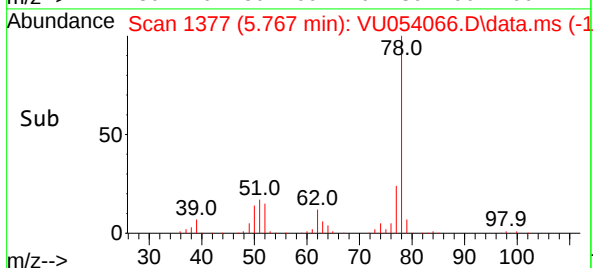
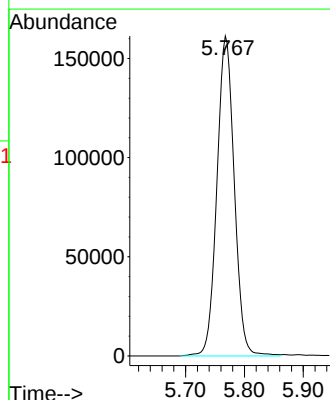
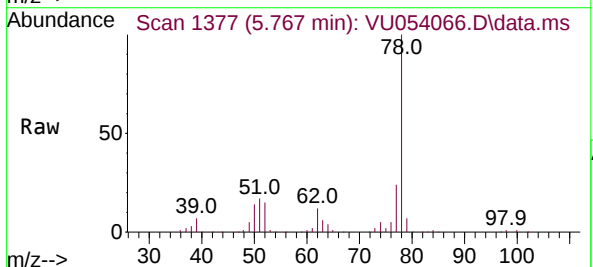
Instrument :
MSVOA_U
ClientSampleId :
VSTD050090

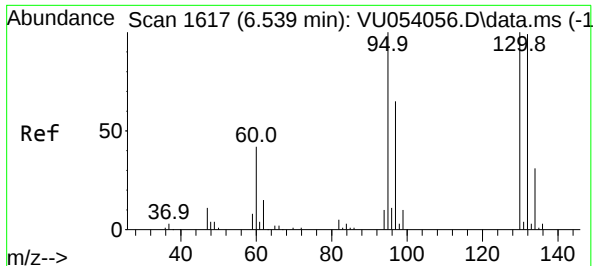
Tgt Ion:117 Resp: 118557
Ion Ratio Lower Upper
117 100
119 99.0 77.8 116.6



#33
Benzene
Concen: 48.740 ug/L
RT: 5.767 min Scan# 1377
Delta R.T. -0.003 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Tgt Ion: 78 Resp: 331015





#34

Trichloroethene

Concen: 47.670 ug/L

RT: 6.536 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU054066.D

Acq: 04 May 2023 16:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD050090

Tgt Ion: 95 Resp: 85926

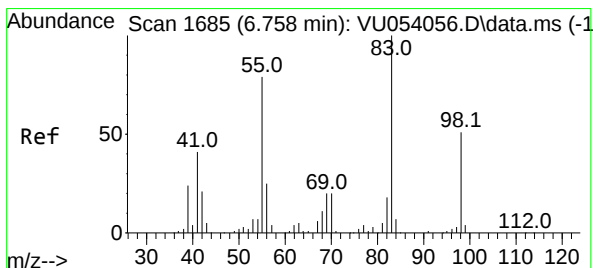
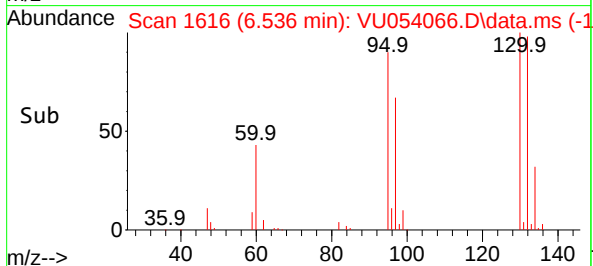
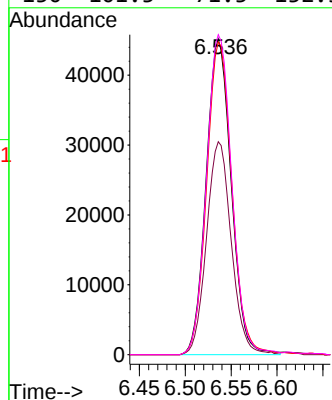
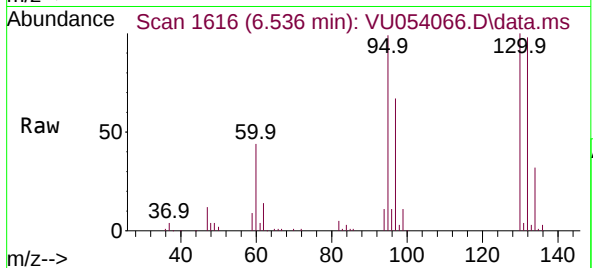
Ion Ratio Lower Upper

95 100

97 67.4 46.5 86.3

132 99.0 67.8 126.0

130 101.3 71.3 132.3



#35

Methylcyclohexane

Concen: 46.660 ug/L

RT: 6.758 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VU054066.D

Acq: 04 May 2023 16:51

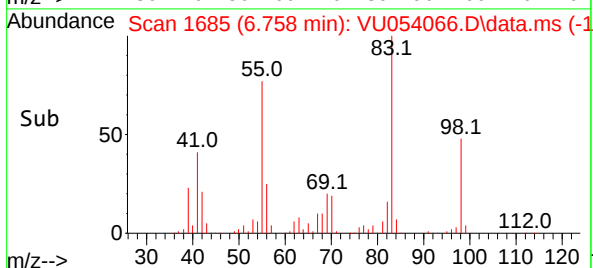
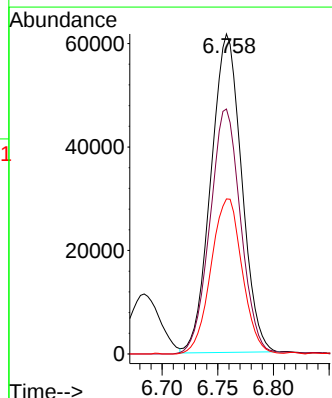
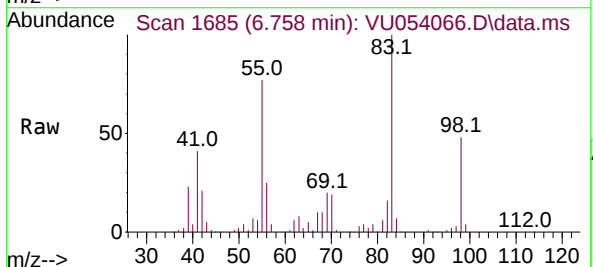
Tgt Ion: 83 Resp: 117956

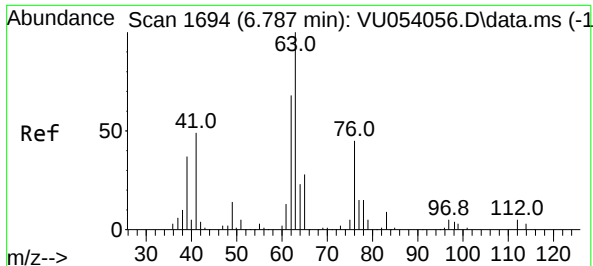
Ion Ratio Lower Upper

83 100

55 77.5 61.8 92.6

98 49.7 38.4 57.6

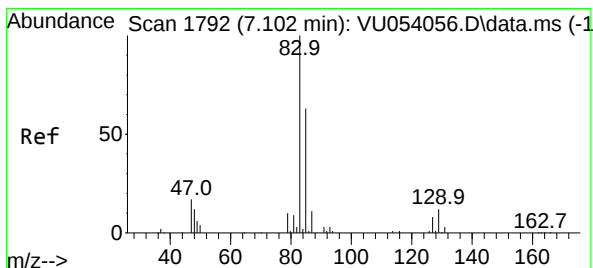
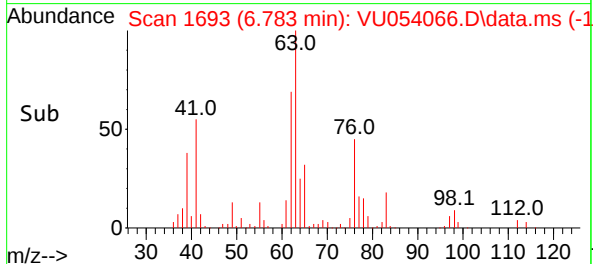
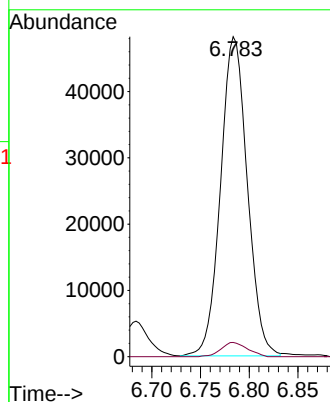
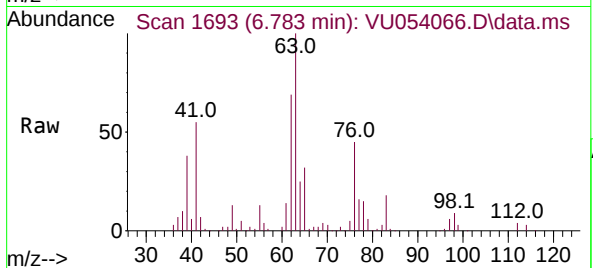




#37
1,2-Dichloropropane
Concen: 47.835 ug/L
RT: 6.783 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

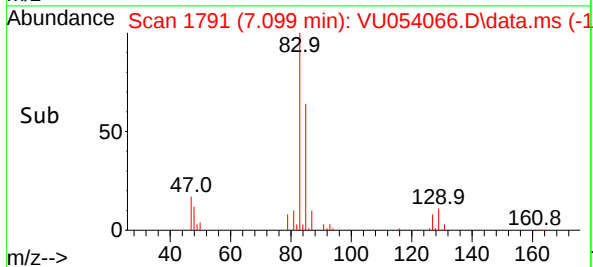
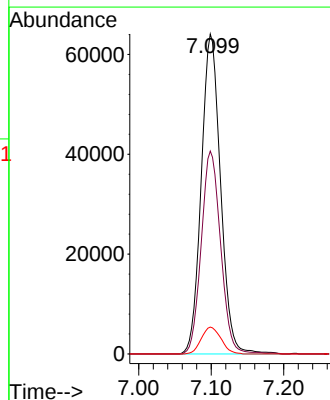
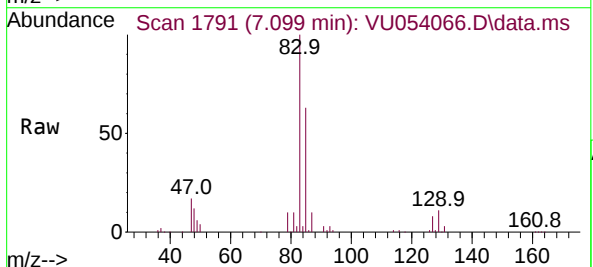
Instrument :
MSVOA_U
ClientSampleId :
VSTD050090

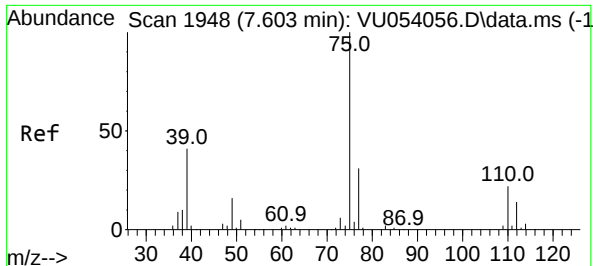
Tgt Ion: 63 Resp: 91911
Ion Ratio Lower Upper
63 100
112 4.4 3.4 5.0



#38
Bromodichloromethane
Concen: 48.908 ug/L
RT: 7.099 min Scan# 1791
Delta R.T. -0.003 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Tgt Ion: 83 Resp: 118392
Ion Ratio Lower Upper
83 100
85 63.4 45.0 83.6
127 8.4 7.1 10.7





#39

cis-1,3-Dichloropropene

Concen: 48.805 ug/L

RT: 7.600 min Scan# 1948

Delta R.T. -0.003 min

Lab File: VU054066.D

Acq: 04 May 2023 16:51

Instrument :

MSVOA_U

ClientSampleId :

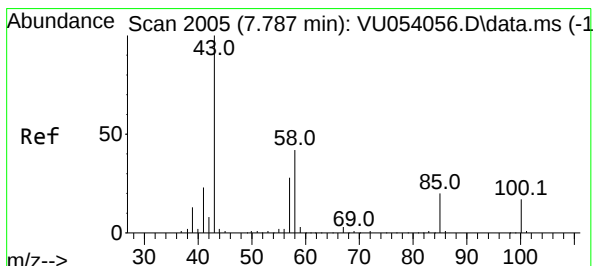
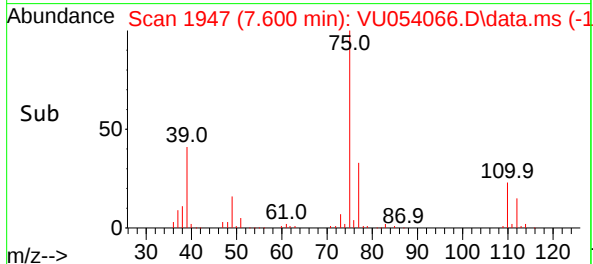
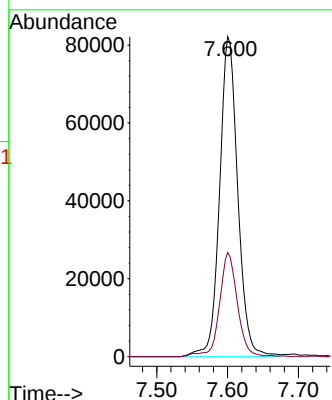
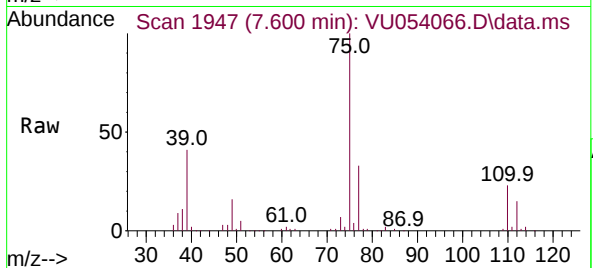
VSTD050090

Tgt Ion: 75 Resp: 146696

Ion Ratio Lower Upper

75 100

77 32.6 21.1 39.1



#40

4-Methyl-2-pentanone

Concen: 101.475 ug/L

RT: 7.783 min Scan# 2004

Delta R.T. -0.003 min

Lab File: VU054066.D

Acq: 04 May 2023 16:51

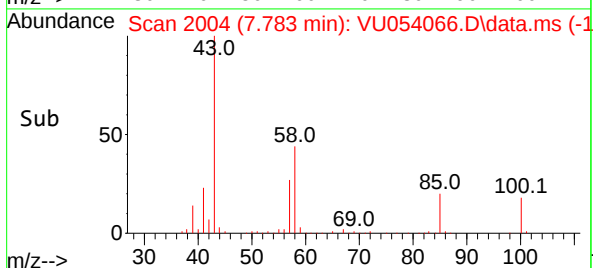
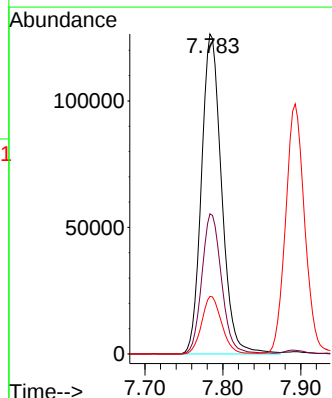
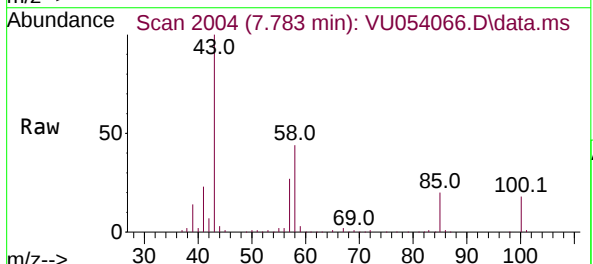
Tgt Ion: 43 Resp: 227217

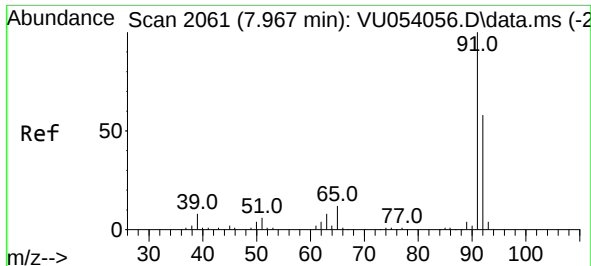
Ion Ratio Lower Upper

43 100

58 42.9 34.5 51.7

100 17.9 13.8 20.6





#42

Toluene

Concen: 49.666 ug/L

RT: 7.963 min Scan# 2061

Delta R.T. -0.003 min

Lab File: VU054066.D

Acq: 04 May 2023 16:51

Instrument :

MSVOA_U

ClientSampleId :

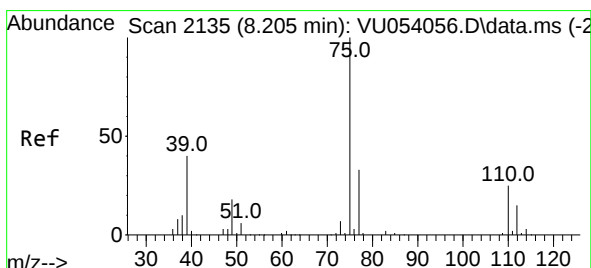
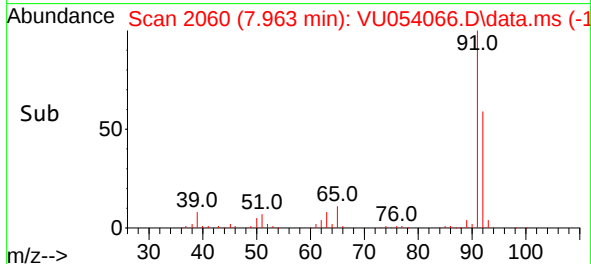
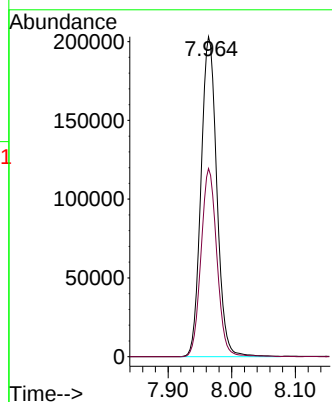
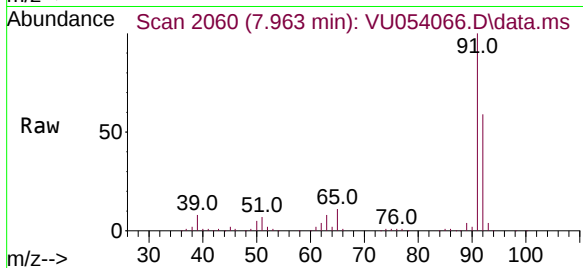
VSTD050090

Tgt Ion: 91 Resp: 351150

Ion Ratio Lower Upper

91 100

92 58.8 40.5 75.3



#44

trans-1,3-Dichloropropene

Concen: 48.546 ug/L

RT: 8.205 min Scan# 2135

Delta R.T. -0.000 min

Lab File: VU054066.D

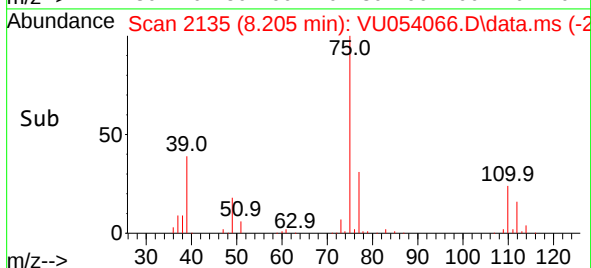
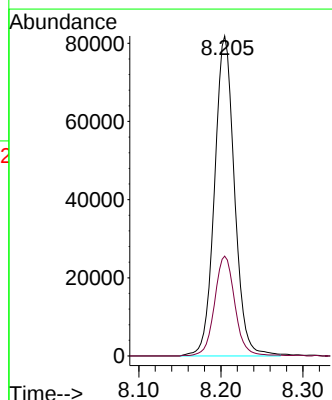
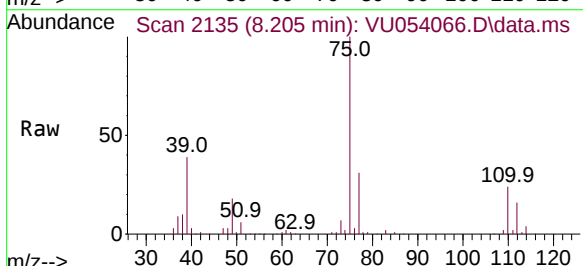
Acq: 04 May 2023 16:51

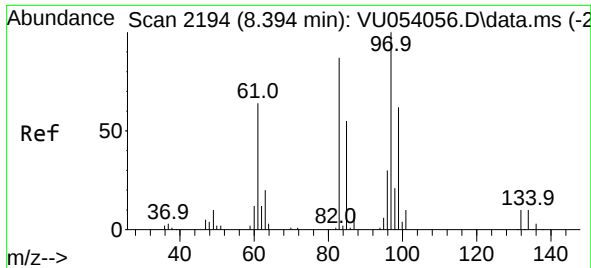
Tgt Ion: 75 Resp: 138673

Ion Ratio Lower Upper

75 100

77 31.2 22.5 41.7

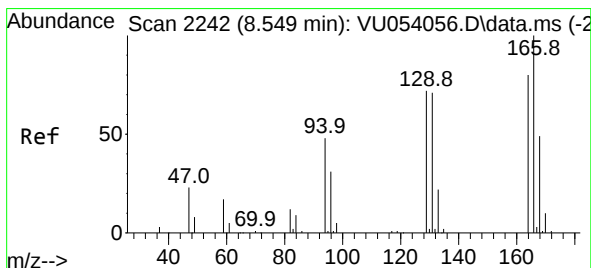
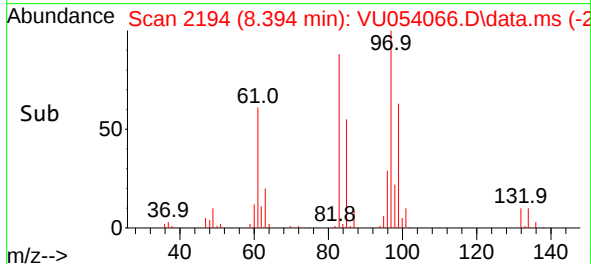
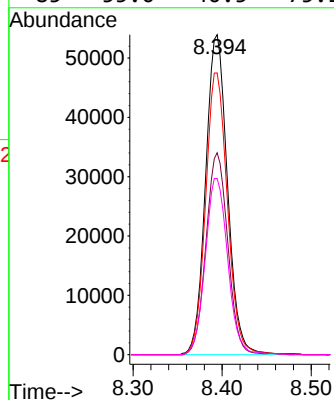
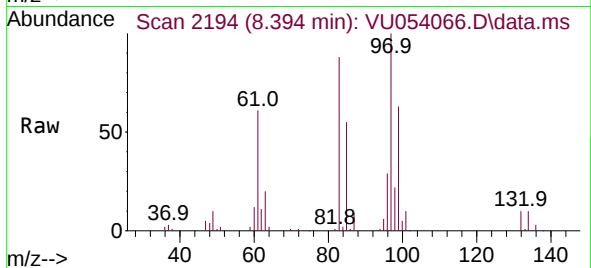




#45
1,1,2-Trichloroethane
Concen: 49.382 ug/L
RT: 8.394 min Scan# 2194
Delta R.T. -0.000 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

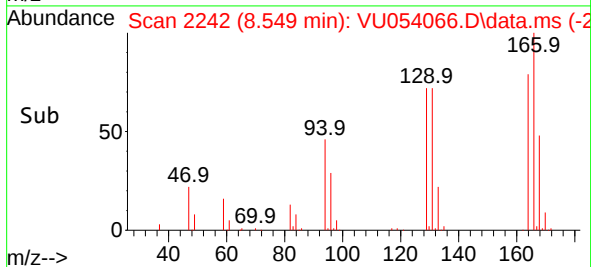
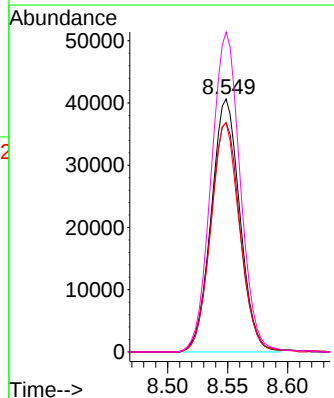
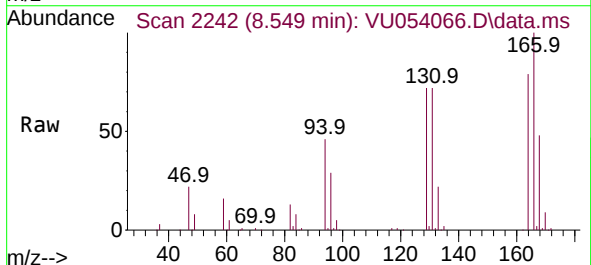
Instrument :
MSVOA_U
ClientSampleId :
VSTD050090

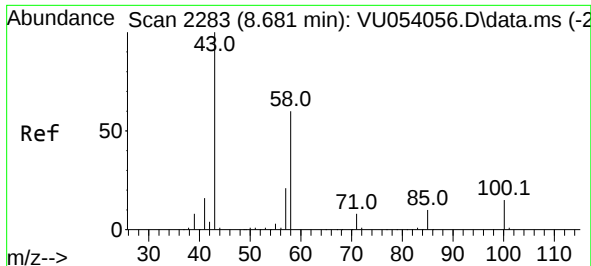
Tgt Ion:	97	Resp:	91838
Ion	Ratio	Lower	Upper
97	100		
99	63.1	46.2	85.8
83	88.1	62.7	116.5
85	55.0	40.5	75.1



#46
Tetrachloroethene
Concen: 47.272 ug/L
RT: 8.549 min Scan# 2242
Delta R.T. -0.000 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Tgt Ion:	164	Resp:	67599
Ion	Ratio	Lower	Upper
164	100		
129	90.7	65.6	121.8
131	90.5	63.8	118.4
166	126.5	88.9	165.1



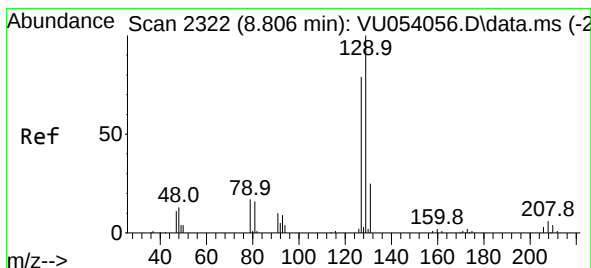
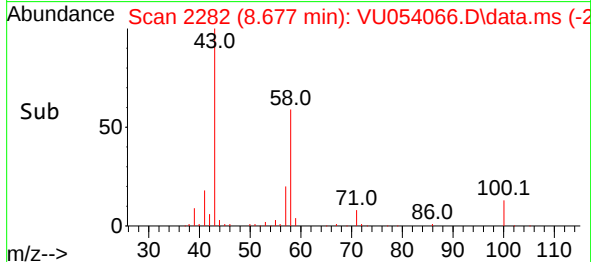
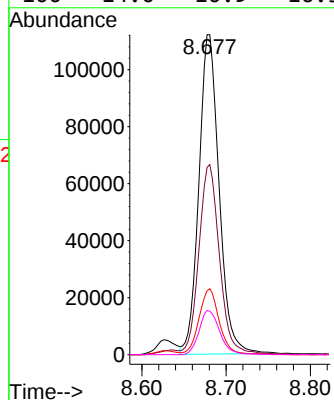
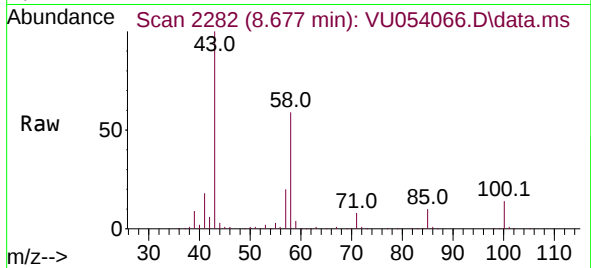


#48
2-Hexanone
Concen: 105.635 ug/L
RT: 8.677 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD050090

Tgt Ion: 43 Resp: 187453

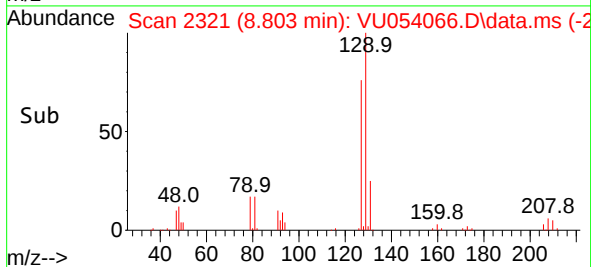
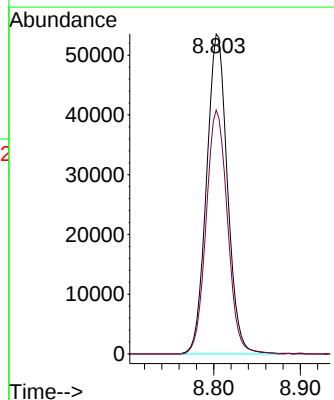
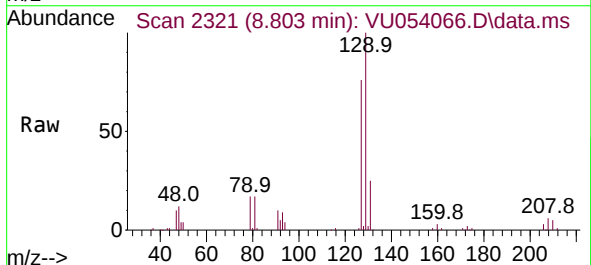
Ion	Ratio	Lower	Upper
43	100		
58	59.9	48.5	72.7
57	20.0	16.5	24.7
100	14.0	10.9	16.3

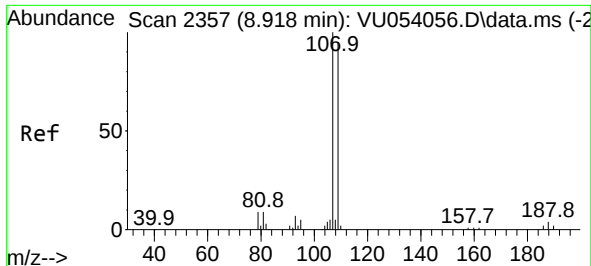


#49
Dibromochloromethane
Concen: 48.962 ug/L
RT: 8.803 min Scan# 2321
Delta R.T. -0.003 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Tgt Ion: 129 Resp: 89728

Ion	Ratio	Lower	Upper
129	100		
127	76.2	52.9	98.3





#50

1,2-Dibromoethane

Concen: 50.285 ug/L

RT: 8.915 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU054066.D

Acq: 04 May 2023 16:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD050090

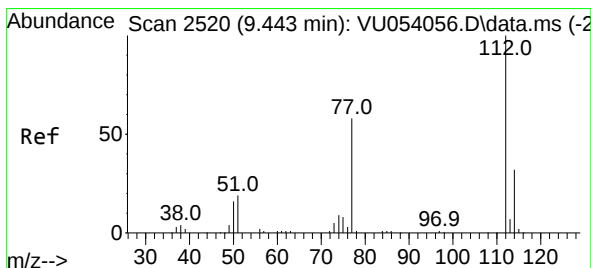
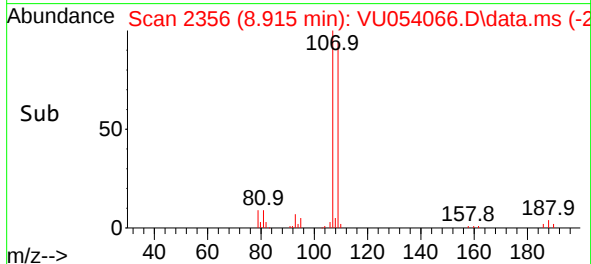
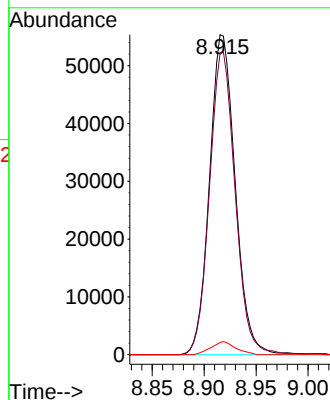
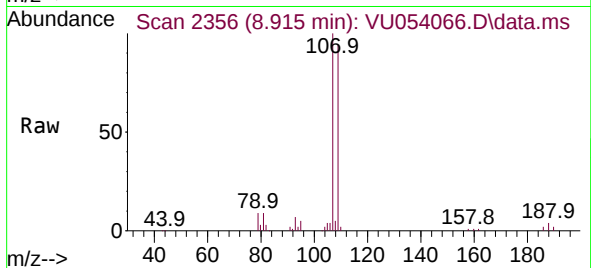
Tgt Ion:107 Resp: 94921

Ion Ratio Lower Upper

107 100

109 94.1 66.1 122.8

188 3.8 3.1 4.7



#51

Chlorobenzene

Concen: 49.552 ug/L

RT: 9.443 min Scan# 2520

Delta R.T. -0.000 min

Lab File: VU054066.D

Acq: 04 May 2023 16:51

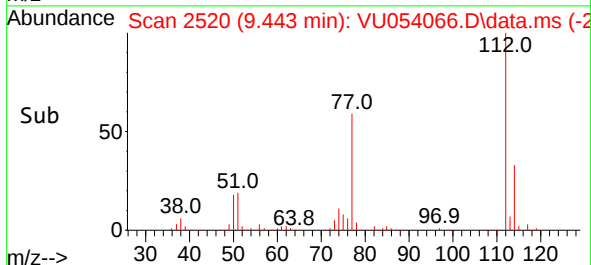
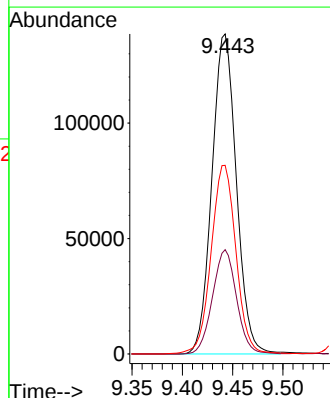
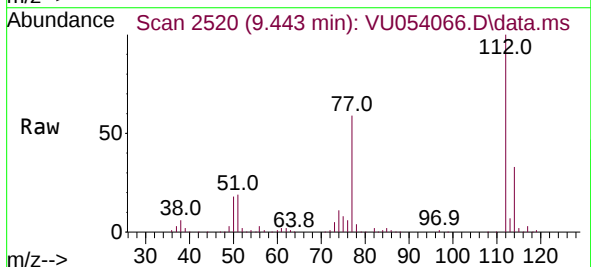
Tgt Ion:112 Resp: 234328

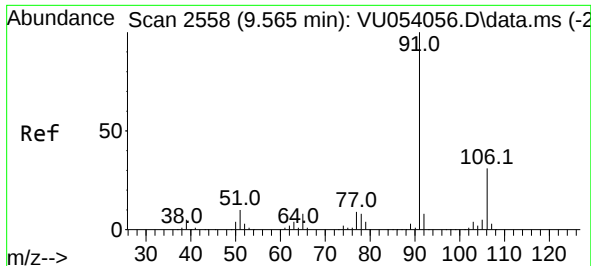
Ion Ratio Lower Upper

112 100

114 32.6 22.3 41.3

77 58.9 47.0 70.4

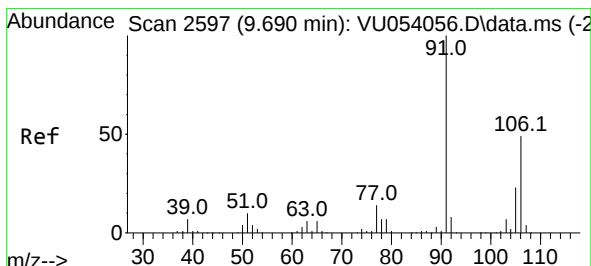
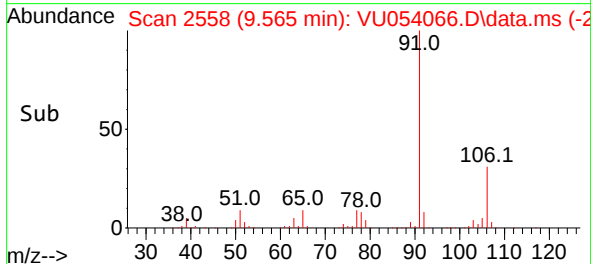
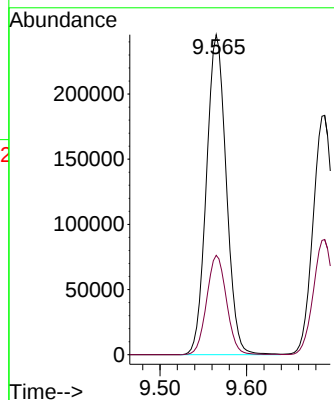
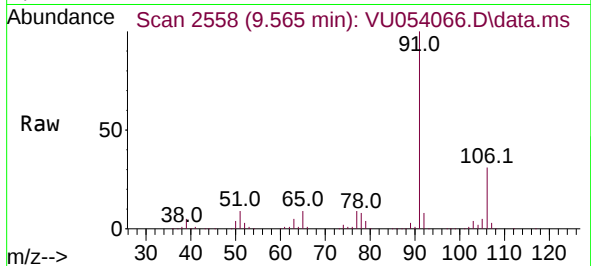




#52
Ethylbenzene
Concen: 49.114 ug/L
RT: 9.565 min Scan# 2558
Delta R.T. -0.000 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

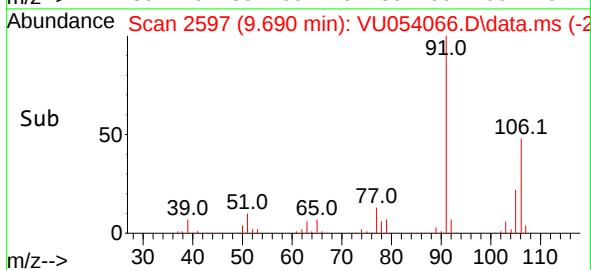
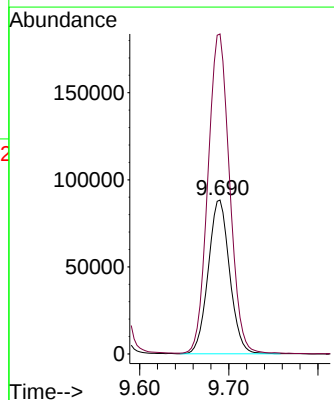
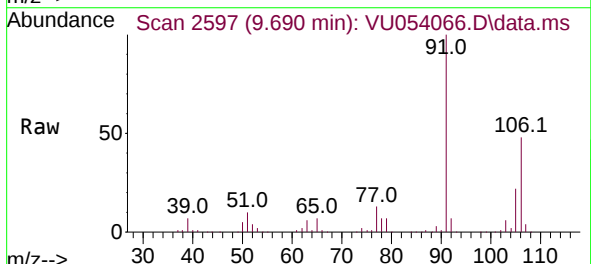
Instrument :
MSVOA_U
ClientSampleId :
VSTD050090

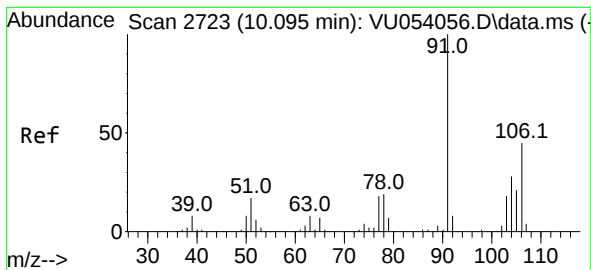
Tgt Ion: 91 Resp: 390819
Ion Ratio Lower Upper
91 100
106 31.1 21.3 39.6



#53
m,p-Xylene
Concen: 49.215 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. -0.000 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Tgt Ion: 106 Resp: 147057
Ion Ratio Lower Upper
106 100
91 207.9 140.5 260.9





#54

o-Xylene

Concen: 51.086 ug/L

RT: 10.095 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU054066.D

Acq: 04 May 2023 16:51

Instrument :

MSVOA_U

ClientSampleId :

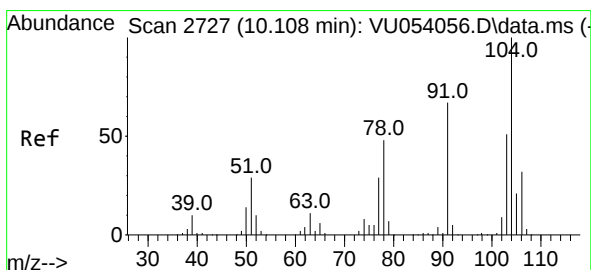
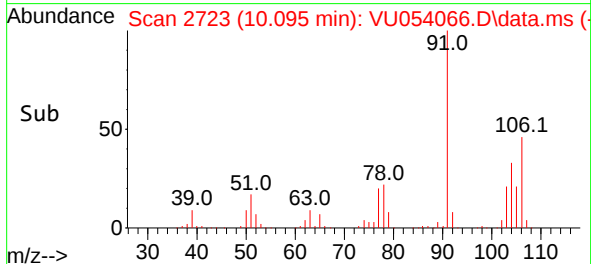
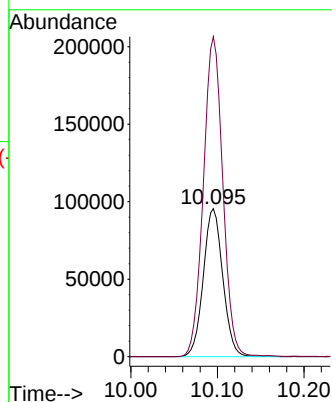
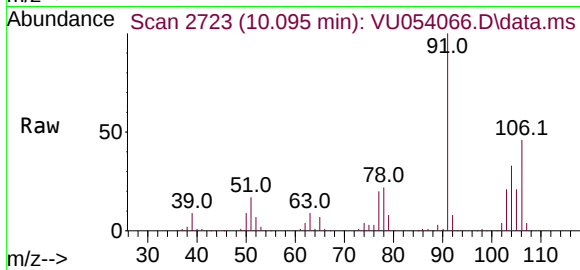
VSTD050090

Tgt Ion:106 Resp: 149338

Ion Ratio Lower Upper

106 100

91 216.3 154.9 287.7



#55

Styrene

Concen: 51.203 ug/L

RT: 10.108 min Scan# 2727

Delta R.T. -0.000 min

Lab File: VU054066.D

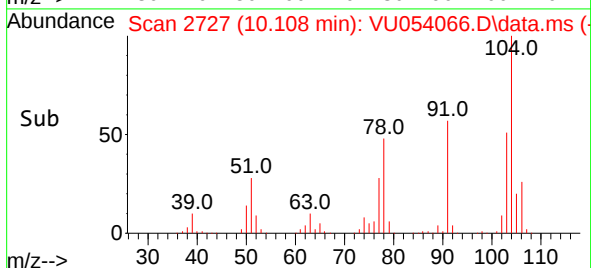
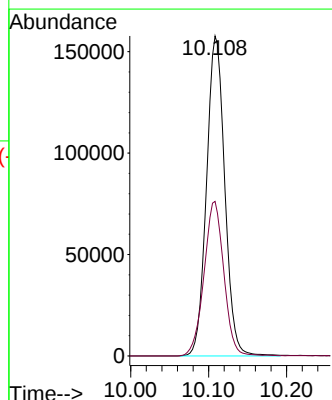
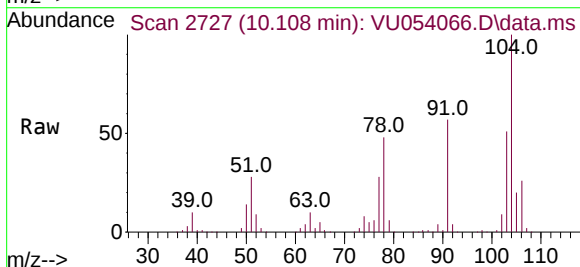
Acq: 04 May 2023 16:51

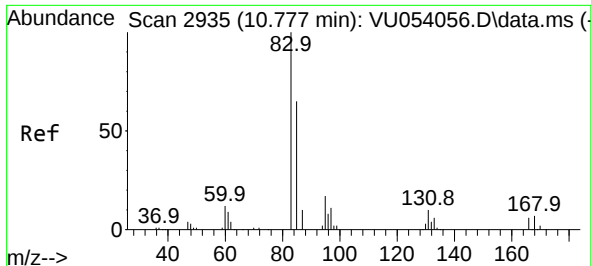
Tgt Ion:104 Resp: 256729

Ion Ratio Lower Upper

104 100

78 48.3 33.2 61.7





#57

1,1,2,2-Tetrachloroethane

Concen: 49.562 ug/L

RT: 10.777 min Scan# 2935

Delta R.T. -0.000 min

Lab File: VU054066.D

Acq: 04 May 2023 16:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD050090

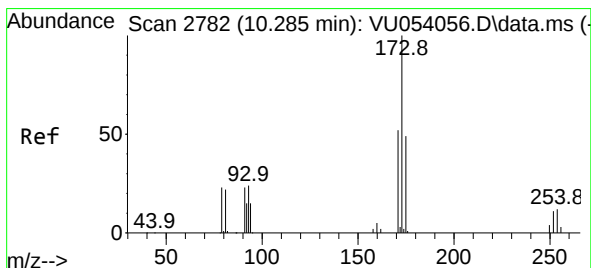
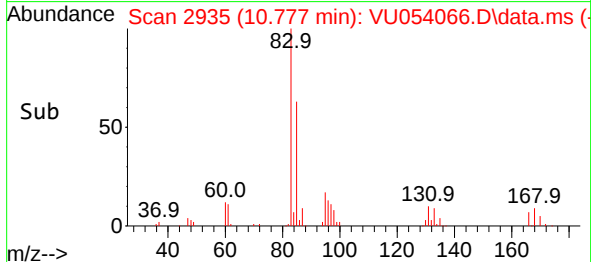
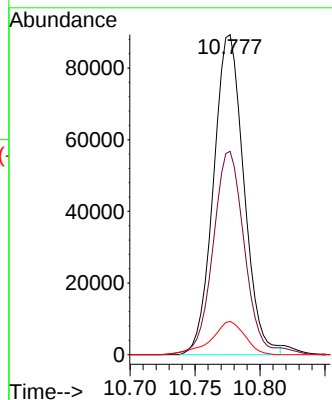
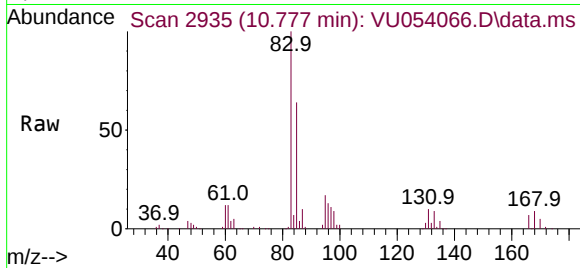
Tgt Ion: 83 Resp: 145198

Ion Ratio Lower Upper

83 100

85 63.6 45.1 83.9

131 10.4 8.2 12.2



#59

Bromoform

Concen: 48.054 ug/L

RT: 10.285 min Scan# 2782

Delta R.T. -0.000 min

Lab File: VU054066.D

Acq: 04 May 2023 16:51

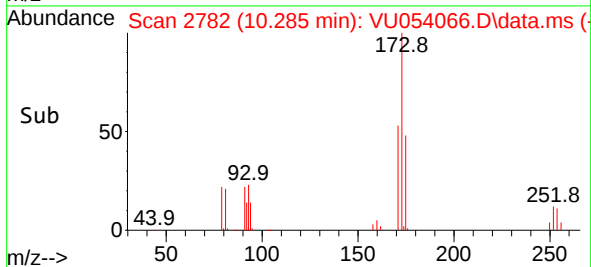
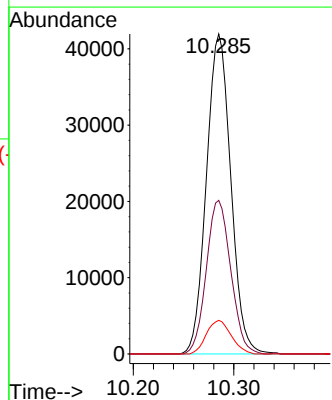
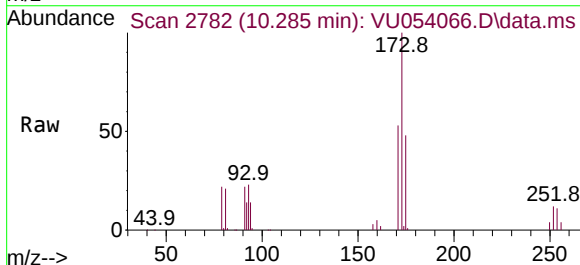
Tgt Ion:173 Resp: 70660

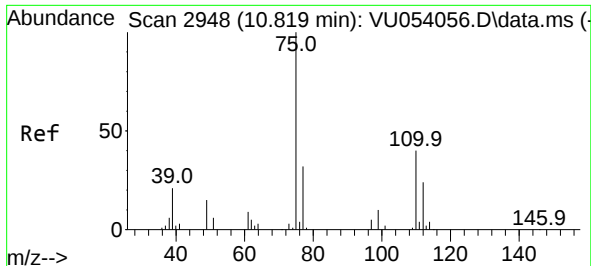
Ion Ratio Lower Upper

173 100

175 48.1 38.9 58.3

254 10.7 8.5 12.7

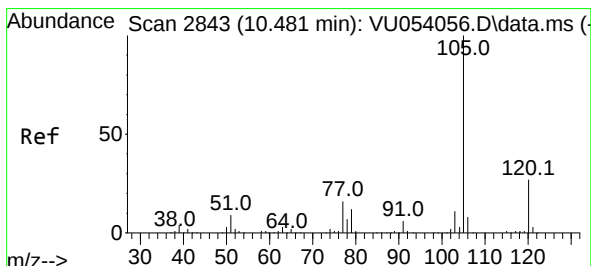
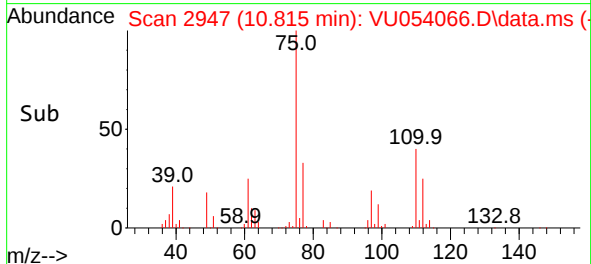
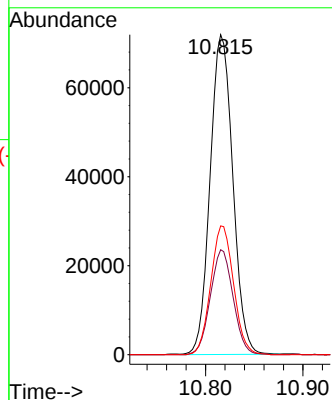
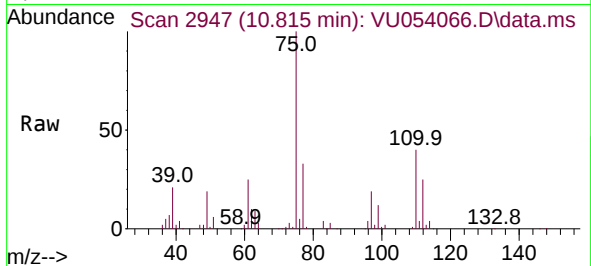




#60
1,2,3-Trichloropropane
Concen: 47.640 ug/L
RT: 10.815 min Scan# 2948
Delta R.T. -0.003 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

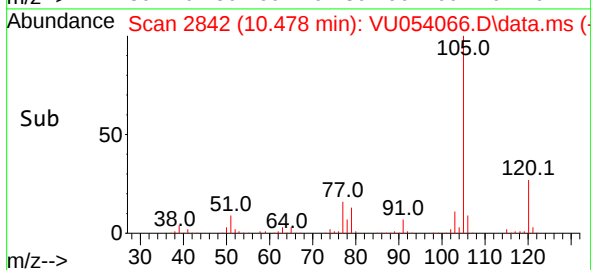
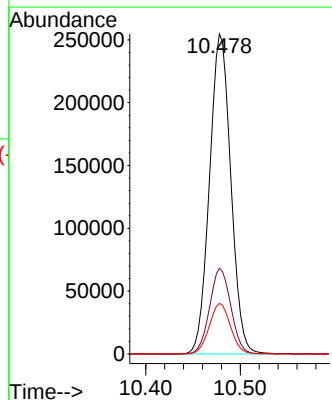
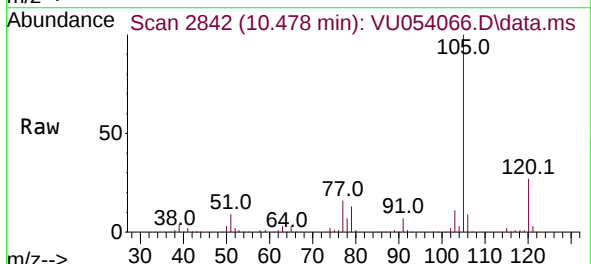
Instrument :
MSVOA_U
ClientSampleId :
VSTD050090

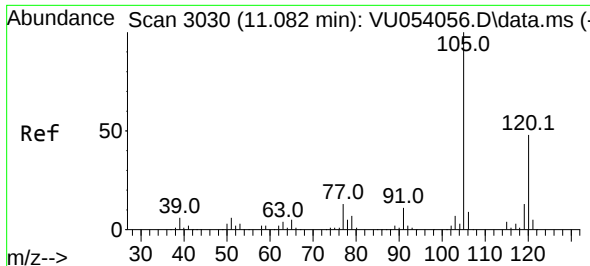
Tgt Ion: 75 Resp: 116225
Ion Ratio Lower Upper
75 100
77 32.9 26.0 39.0
110 40.5 31.8 47.8



#61
Isopropylbenzene
Concen: 48.067 ug/L
RT: 10.478 min Scan# 2842
Delta R.T. -0.003 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Tgt Ion: 105 Resp: 398522
Ion Ratio Lower Upper
105 100
120 26.7 21.3 31.9
77 15.7 12.7 19.1

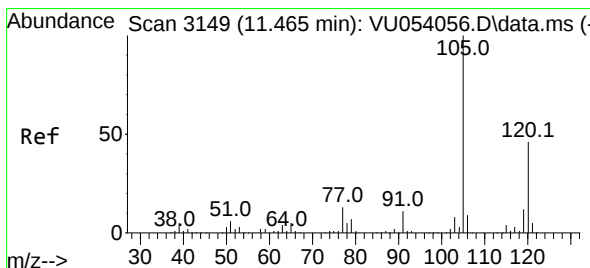
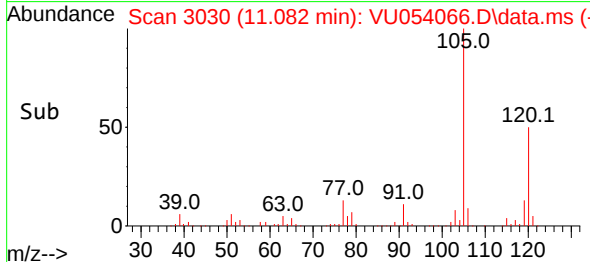
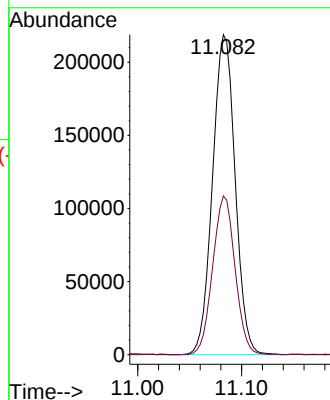
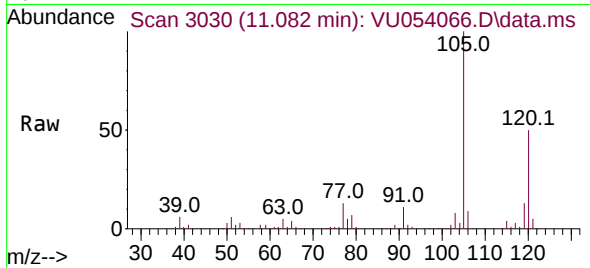




#62
 1,3,5-Trimethylbenzene
 Concen: 48.751 ug/L
 RT: 11.082 min Scan# 3030
 Delta R.T. -0.000 min
 Lab File: VU054066.D
 Acq: 04 May 2023 16:51

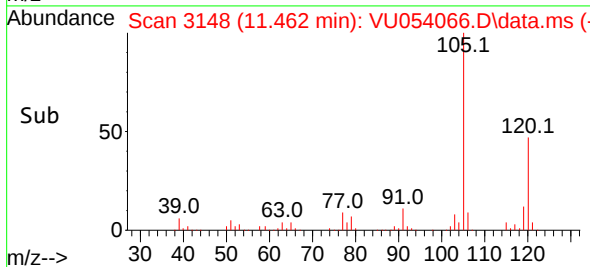
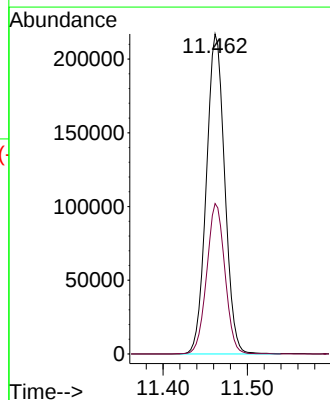
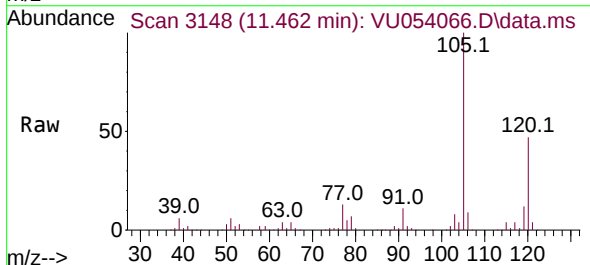
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD050090

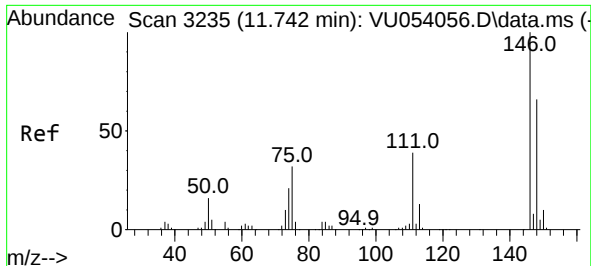
Tgt Ion:105 Resp: 331210
 Ion Ratio Lower Upper
 105 100
 120 49.0 39.4 59.2



#63
 1,2,4-Trimethylbenzene
 Concen: 49.168 ug/L
 RT: 11.462 min Scan# 3148
 Delta R.T. -0.003 min
 Lab File: VU054066.D
 Acq: 04 May 2023 16:51

Tgt Ion:105 Resp: 329255
 Ion Ratio Lower Upper
 105 100
 120 46.4 36.5 54.7

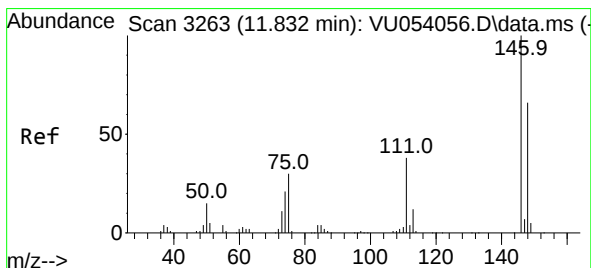
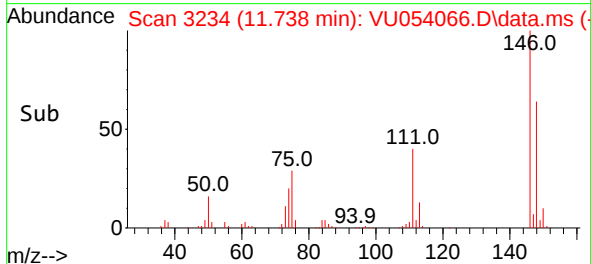
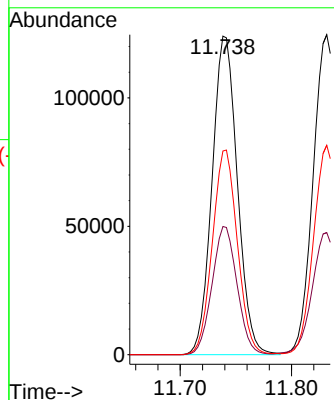
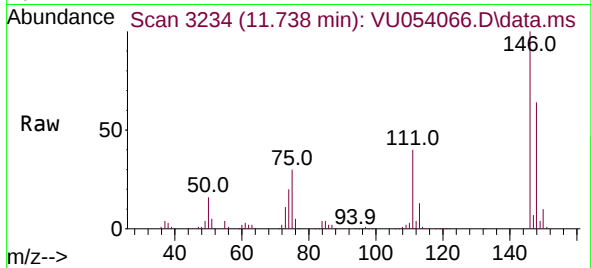




#64
1,3-Dichlorobenzene
Concen: 48.343 ug/L
RT: 11.738 min Scan# 31
Delta R.T. -0.003 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

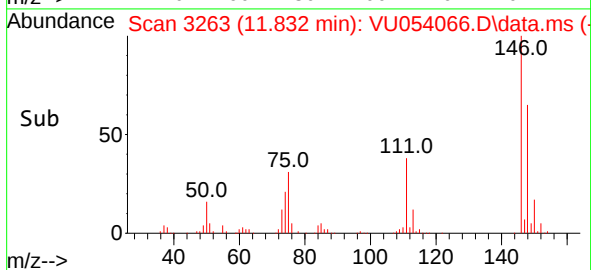
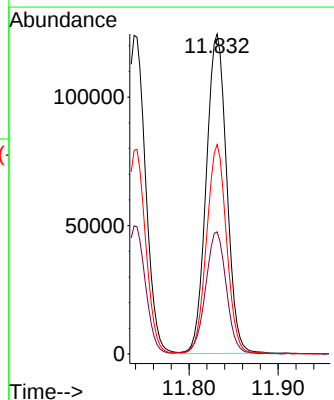
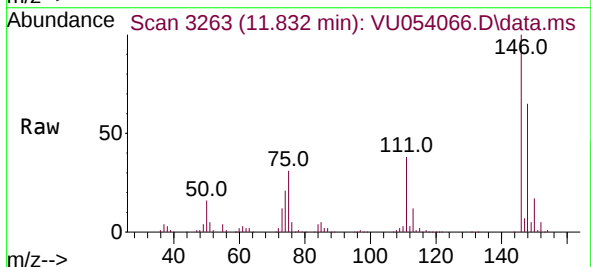
Instrument :
MSVOA_U
ClientSampleId :
VSTD050090

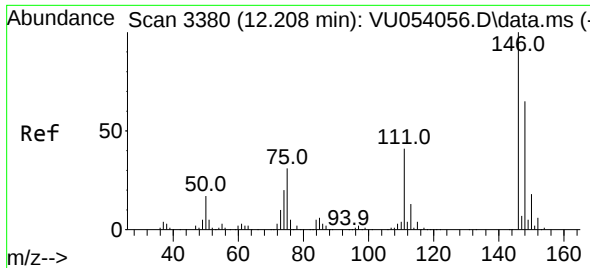
Tgt Ion:146 Resp: 196026
Ion Ratio Lower Upper
146 100
111 40.2 27.9 51.7
148 63.9 43.8 81.4



#65
1,4-Dichlorobenzene
Concen: 48.044 ug/L
RT: 11.832 min Scan# 3263
Delta R.T. -0.000 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Tgt Ion:146 Resp: 198405
Ion Ratio Lower Upper
146 100
111 38.1 27.9 51.7
148 65.4 44.9 83.3





#67

1,2-Dichlorobenzene

Concen: 48.644 ug/L

RT: 12.208 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU054066.D

Acq: 04 May 2023 16:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD050090

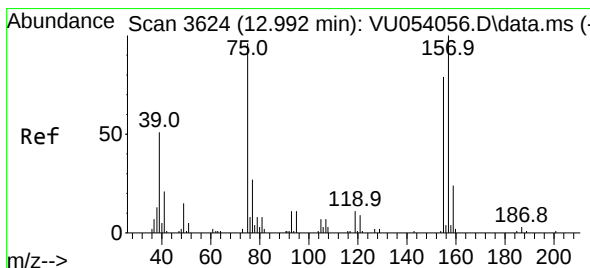
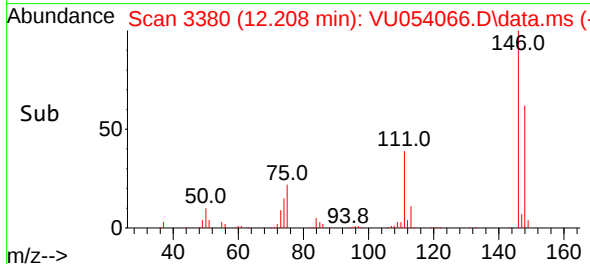
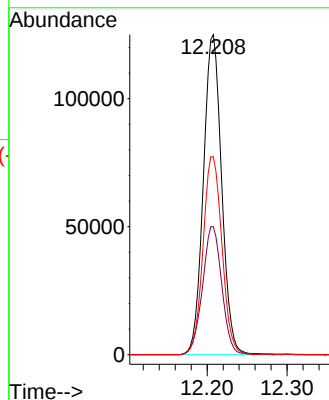
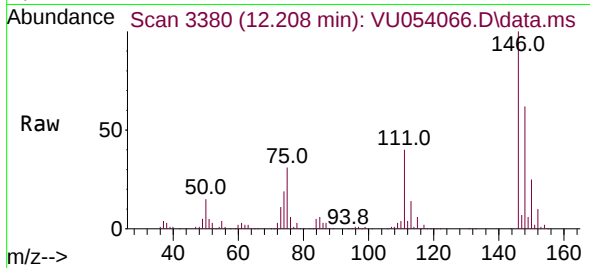
Tgt Ion:146 Resp: 199071

Ion Ratio Lower Upper

146 100

111 40.0 33.4 50.0

148 61.9 50.8 76.2



#68

1,2-Dibromo-3-chloropropane

Concen: 47.507 ug/L

RT: 12.989 min Scan# 3623

Delta R.T. -0.003 min

Lab File: VU054066.D

Acq: 04 May 2023 16:51

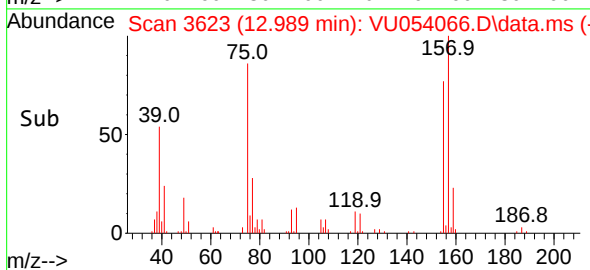
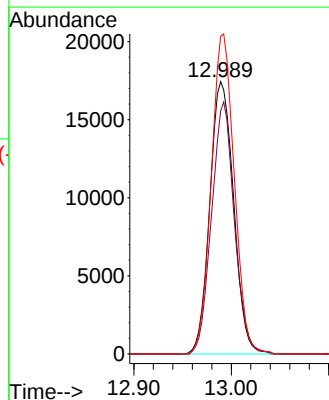
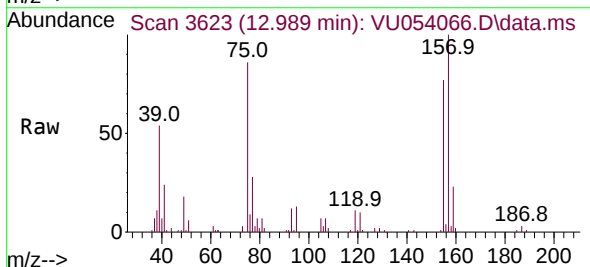
Tgt Ion: 75 Resp: 29568

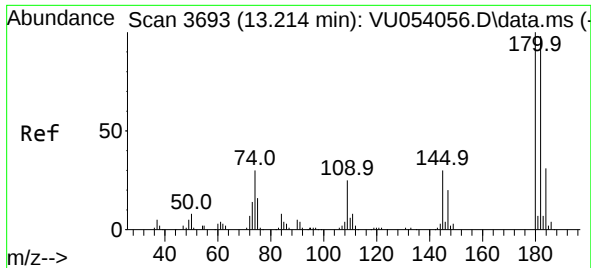
Ion Ratio Lower Upper

75 100

155 89.3 67.8 101.6

157 116.7 88.3 132.5

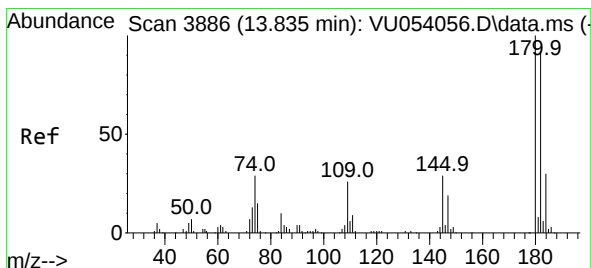
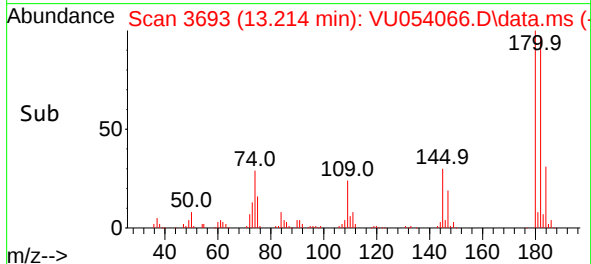
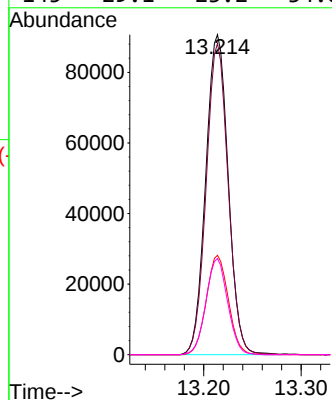
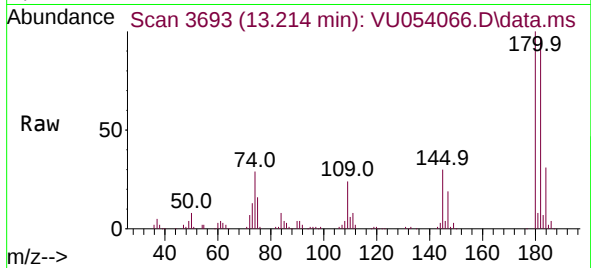




#69
1,3,5-Trichlorobenzene
Concen: 49.387 ug/L
RT: 13.214 min Scan# 3693
Delta R.T. -0.000 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

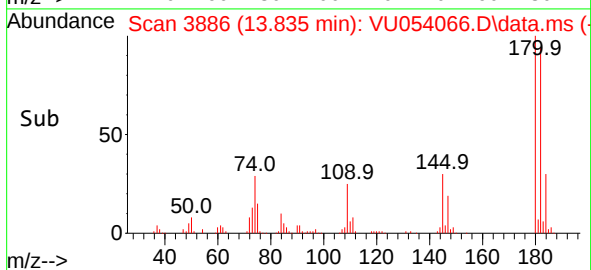
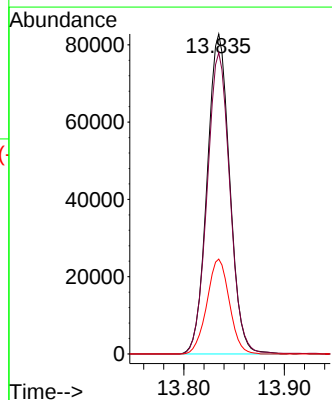
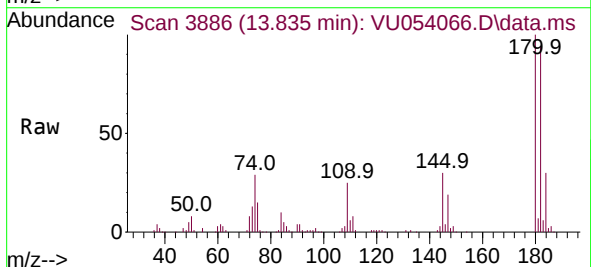
Instrument :
MSVOA_U
ClientSampleId :
VSTD050090

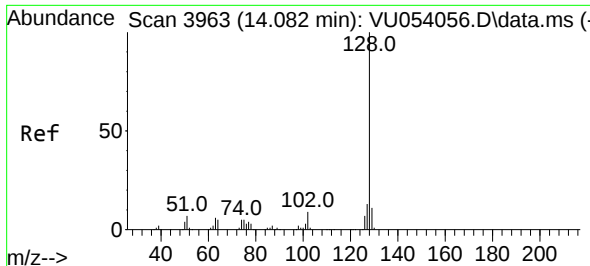
Tgt Ion:180 Resp: 145114
Ion Ratio Lower Upper
180 100
182 95.2 76.0 114.0
184 30.5 24.2 36.2
145 29.1 23.2 34.8



#70
1,2,4-trichlorobenzene
Concen: 48.523 ug/L
RT: 13.835 min Scan# 3886
Delta R.T. -0.000 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Tgt Ion:180 Resp: 129256
Ion Ratio Lower Upper
180 100
182 95.1 77.4 116.2
145 29.4 23.8 35.8

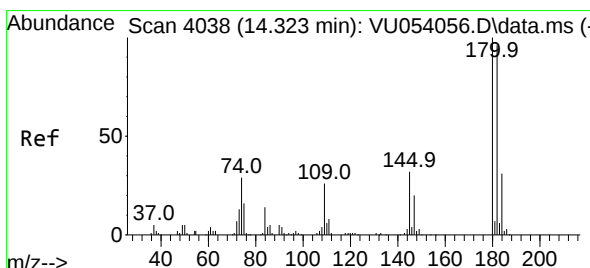
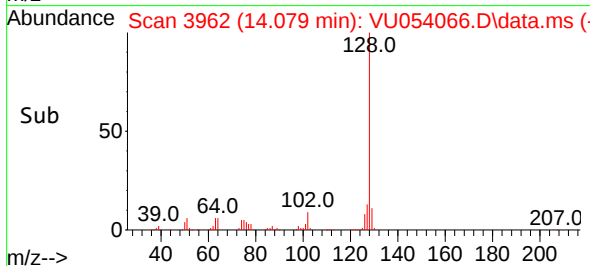
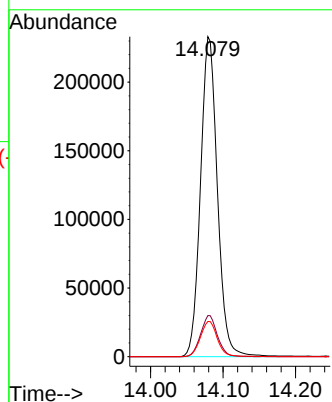
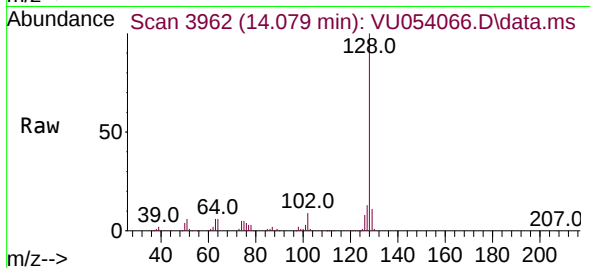




#71
Naphthalene
Concen: 48.786 ug/L
RT: 14.079 min Scan# 3963
Delta R.T. -0.003 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD050090

Tgt Ion:128 Resp: 376936
Ion Ratio Lower Upper
128 100
127 12.7 10.0 15.0
129 11.0 8.4 12.6



#72
1,2,3-Trichlorobenzene
Concen: 49.801 ug/L
RT: 14.323 min Scan# 4038
Delta R.T. -0.000 min
Lab File: VU054066.D
Acq: 04 May 2023 16:51

Tgt Ion:180 Resp: 131964
Ion Ratio Lower Upper
180 100
182 95.8 76.6 114.8
145 30.8 24.9 37.3

