

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100522\
 Data File : VU051145.D
 Acq On : 05 Oct 2022 23:06
 Operator : JC/MD
 Sample : N4889-04
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ62

Quant Time: Oct 06 06:31:35 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092922WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 06 06:20:30 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	508593	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.430	117	547416	50.000	ug/L	0.01
58) 1,4-Dichlorobenzene-d4	11.812	152	290464	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	142058	27.561	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	55.120%#
7) Chloroethane-d5	1.900	69	137116	28.638	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	57.280%#
11) 1,1-Dichloroethene-d2	2.562	63	203599	26.741	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	53.480%#
21) 2-Butanone-d5	4.620	46	279725	83.674	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	83.670%
24) Chloroform-d	5.060	84	314756	37.903	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	75.800%
26) 1,2-Dichloroethane-d4	5.700	65	205590	39.998	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	80.000%
32) Benzene-d6	5.726	84	678688	42.338	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.680%
36) 1,2-Dichloropropane-d6	6.697	67	227550	43.745	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	87.500%
41) Toluene-d8	7.816	98	68	0.005	ug/L	-0.08
Spiked Amount	50.000	Range	80 - 120	Recovery	=	0.000%#
43) trans-1,3-Dichloroprop...	8.230	79	103201	41.595	ug/L	0.05
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.200%
47) 2-Hexanone-d5	8.645	63	186831	88.951	ug/L	0.01
Spiked Amount	100.000	Range	45 - 130	Recovery	=	88.950%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	379435	41.737	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	83.480%
66) 1,2-Dichlorobenzene-d4	12.192	152	276031	44.484	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.960%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.601	62	28728	5.372	ug/L #	19
10) 1,1,2-Trichloro-1,2,2-...	2.568	101	3472	0.894	ug/L #	56
12) 1,1-Dichloroethene	2.575	96	28604	7.887	ug/L #	15
13) Acetone	2.626	43	10452	3.915	ug/L	95
15) Methyl Acetate	2.948	43	69888	14.340	ug/L	97
19) 1,1-Dichloroethane	3.864	63	646982	88.272	ug/L	99
20) cis-1,2-Dichloroethene	4.665	96	1176915	273.180	ug/L	96
22) 2-Butanone	4.703	43	171067	46.381	ug/L	99
29) Cyclohexane	5.385	56	654703	122.829	ug/L	94
30) 1,1,1-Trichloroethane	5.314	97	1051556	163.794	ug/L	99
34) Trichloroethene	6.546	95	31305	7.242	ug/L	92
35) Methylcyclohexane	6.767	83	3317914	563.960	ug/L	96
37) 1,2-Dichloropropane	6.767	63	29553	6.576	ug/L	98
38) Bromodichloromethane	7.076	83	3578	0.597	ug/L #	87
44) trans-1,3-Dichloropropene	8.234	75	4448	0.691	ug/L #	4
45) 1,1,2-Trichloroethane	8.411	97	73336	15.065	ug/L #	18
46) Tetrachloroethene	8.578	164	7794	2.379	ug/L	93
55) Styrene	10.124	104	2033070	165.280	ug/L #	1
61) Isopropylbenzene	10.488	105	1750442	92.769	ug/L	99

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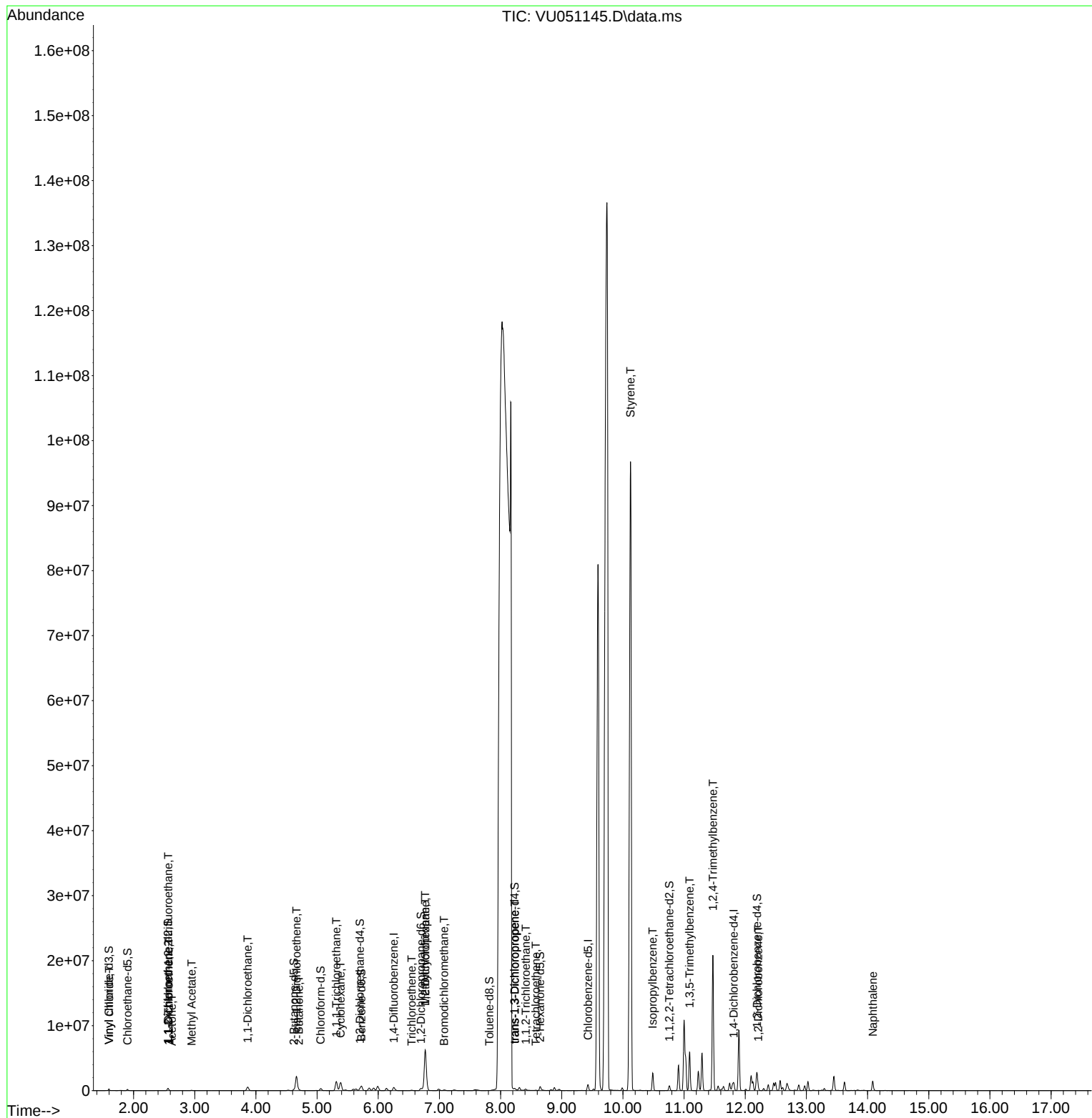
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	11.089	105	3276641	212.366	ug/L	100
63) 1,2,4-Trimethylbenzene	11.471	105	11634946	752.385	ug/L	99
67) 1,2-Dichlorobenzene	12.214	146	15308	1.532	ug/L	95
71) Naphthalene	14.086	128	1177812	60.973	ug/L	99

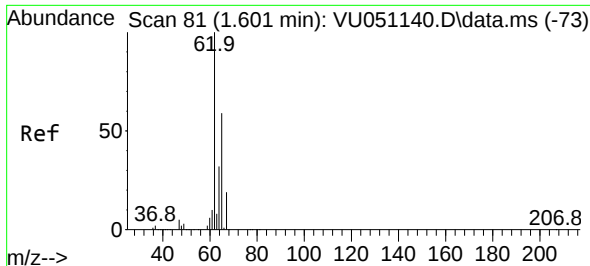
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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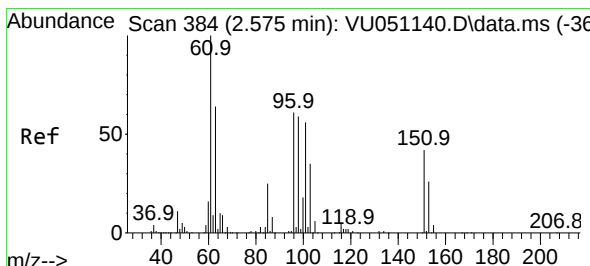
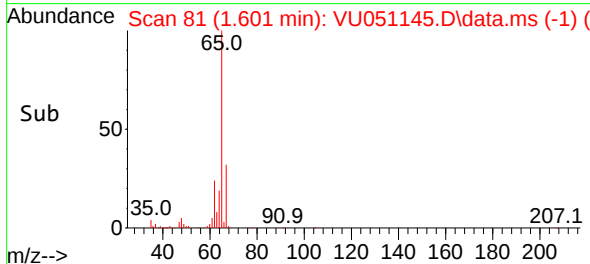
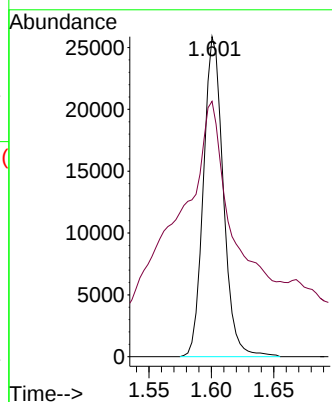
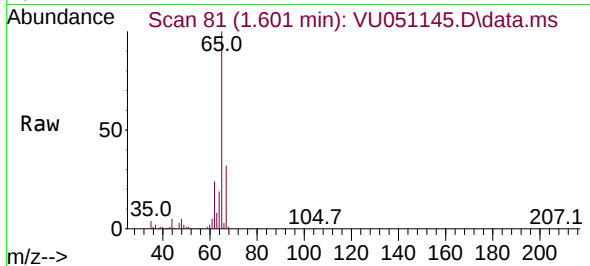




#5
 Vinyl chloride
 Concen: 5.372 ug/L
 RT: 1.601 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU051145.D
 Acq: 05 Oct 2022 23:06

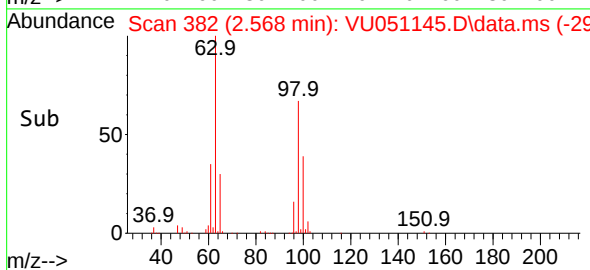
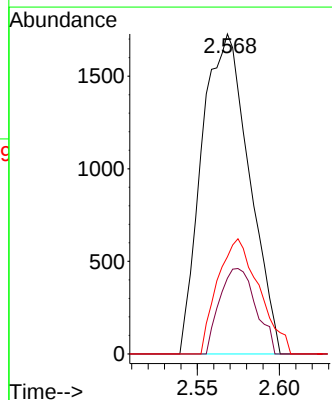
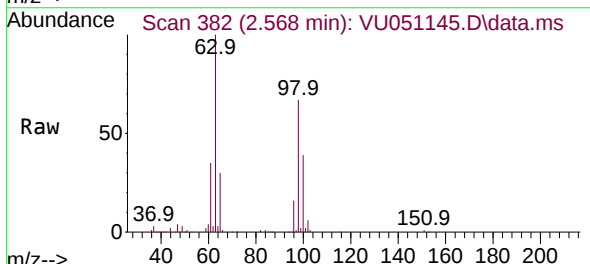
Instrument :
 MSVOA_U
 ClientSampleId :
 EXZ62

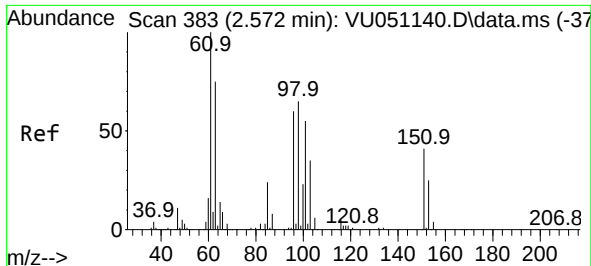
Tgt Ion: 62 Resp: 28728
 Ion Ratio Lower Upper
 62 100
 64 79.8 23.5 43.7#



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.894 ug/L
 RT: 2.568 min Scan# 382
 Delta R.T. -0.007 min
 Lab File: VU051145.D
 Acq: 05 Oct 2022 23:06

Tgt Ion: 101 Resp: 3472
 Ion Ratio Lower Upper
 101 100
 85 20.4 34.6 52.0#
 151 31.6 58.6 87.8#





#12

1,1-Dichloroethene

Concen: 7.887 ug/L

RT: 2.575 min Scan# 383

Delta R.T. 0.003 min

Lab File: VU051145.D

Acq: 05 Oct 2022 23:06

Instrument :

MSVOA_U

ClientSampleId :

EXZ62

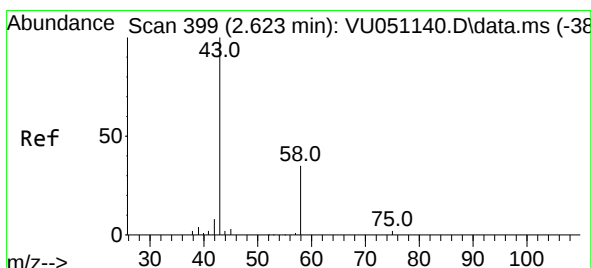
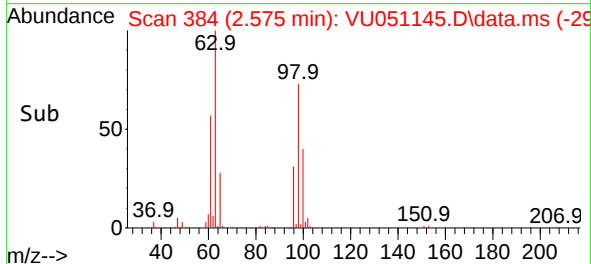
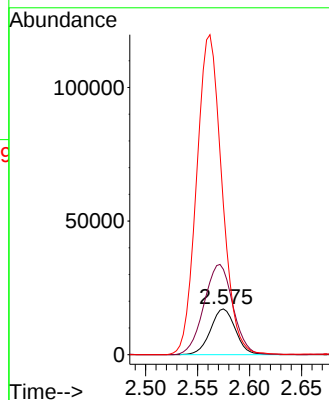
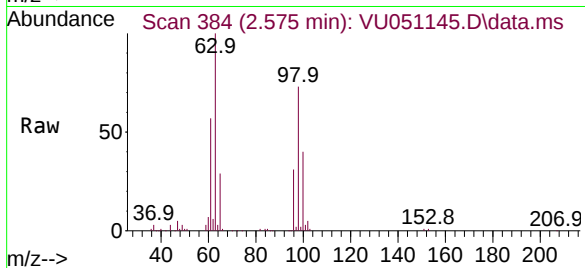
Tgt Ion: 96 Resp: 28604

Ion Ratio Lower Upper

96 100

61 186.1 113.0 209.9

63 326.7 91.7 170.3#



#13

Acetone

Concen: 3.915 ug/L

RT: 2.626 min Scan# 400

Delta R.T. 0.003 min

Lab File: VU051145.D

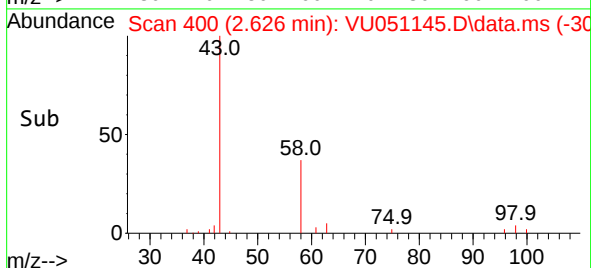
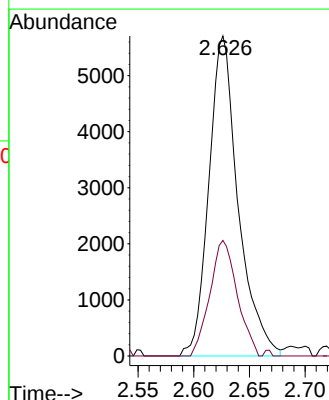
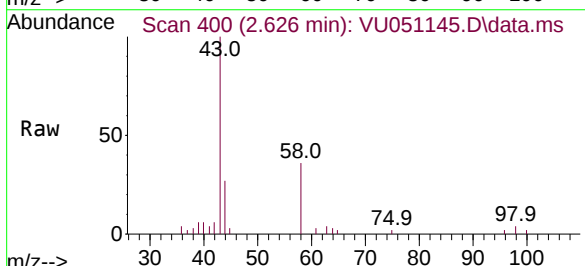
Acq: 05 Oct 2022 23:06

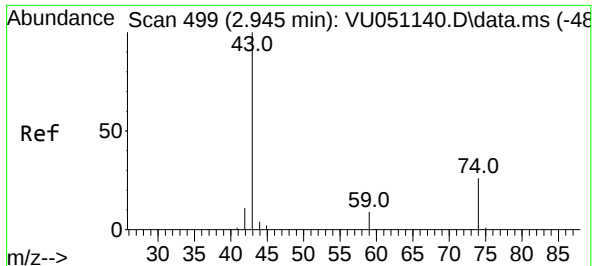
Tgt Ion: 43 Resp: 10452

Ion Ratio Lower Upper

43 100

58 33.6 0.0 73.6

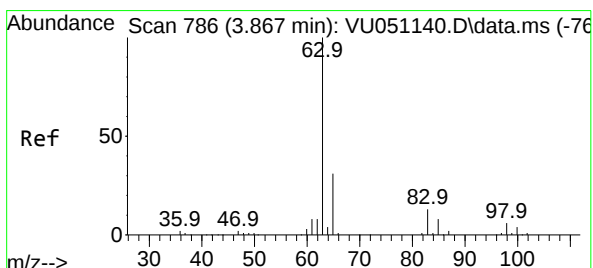
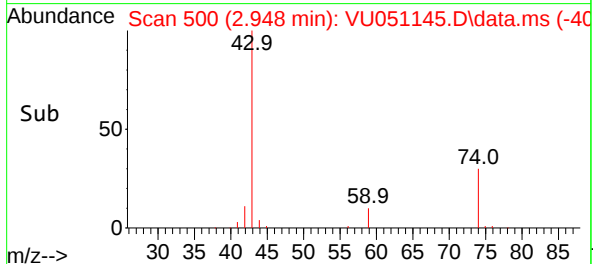
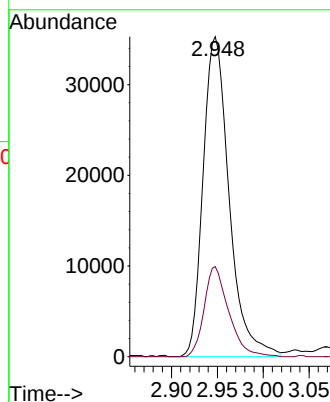
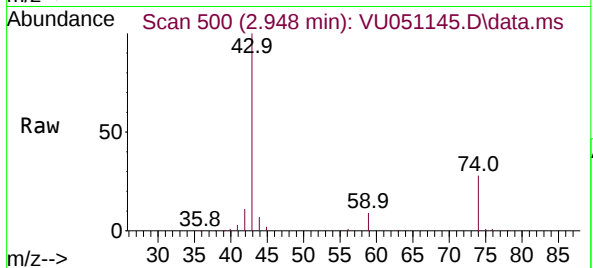




#15
Methyl Acetate
Concen: 14.340 ug/L
RT: 2.948 min Scan# 50
Delta R.T. 0.003 min
Lab File: VU051145.D
Acq: 05 Oct 2022 23:06

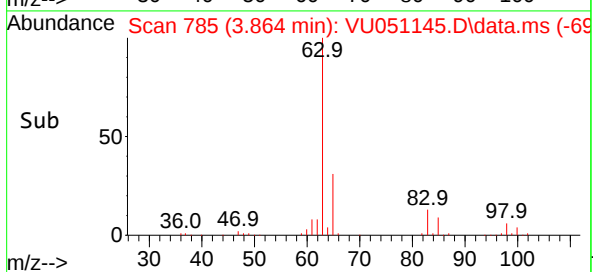
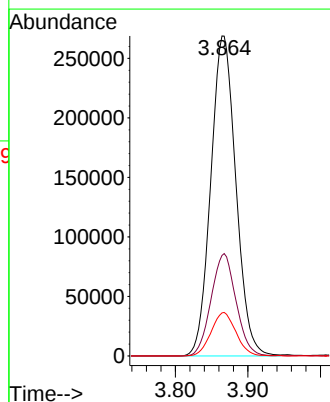
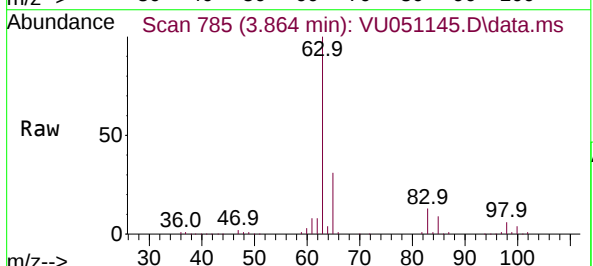
Instrument :
MSVOA_U
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EXZ62

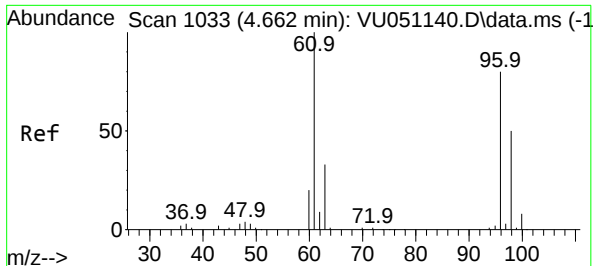
Tgt Ion: 43 Resp: 69888
Ion Ratio Lower Upper
43 100
74 26.4 22.4 33.6



#19
1,1-Dichloroethane
Concen: 88.272 ug/L
RT: 3.864 min Scan# 785
Delta R.T. -0.003 min
Lab File: VU051145.D
Acq: 05 Oct 2022 23:06

Tgt Ion: 63 Resp: 646982
Ion Ratio Lower Upper
63 100
65 31.4 22.6 42.0
83 13.4 9.4 17.4





#20

cis-1,2-Dichloroethene

Concen: 273.180 ug/L

RT: 4.665 min Scan# 1033

Delta R.T. 0.003 min

Lab File: VU051145.D

Acq: 05 Oct 2022 23:06

Instrument :

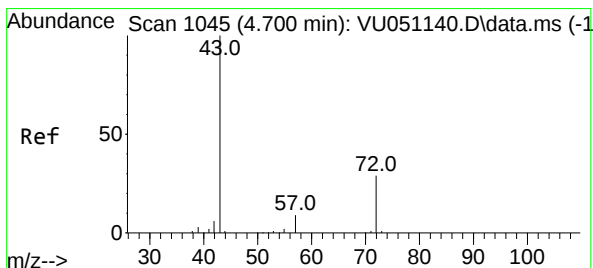
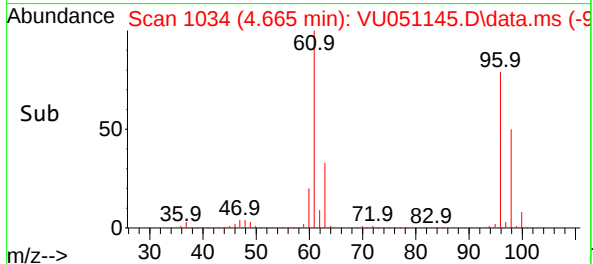
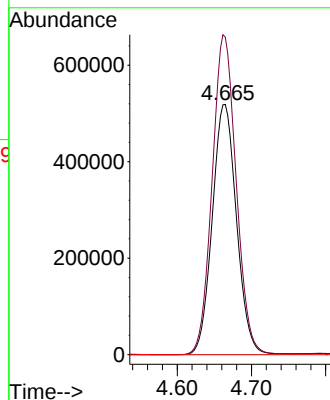
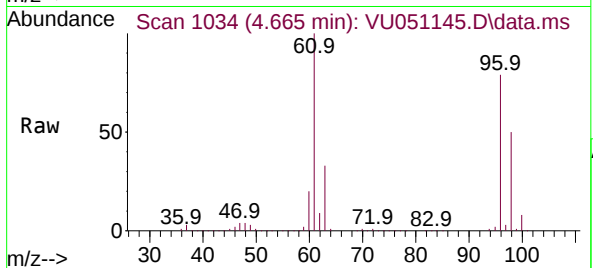
MSVOA_U

ClientSampleId :

EXZ62

Tgt Ion: 96 Resp: 1176915

Ion	Ratio	Lower	Upper
96	100		
61	126.9	85.4	158.6
68	0.0	0.0	0.0



#22

2-Butanone

Concen: 46.381 ug/L

RT: 4.703 min Scan# 1046

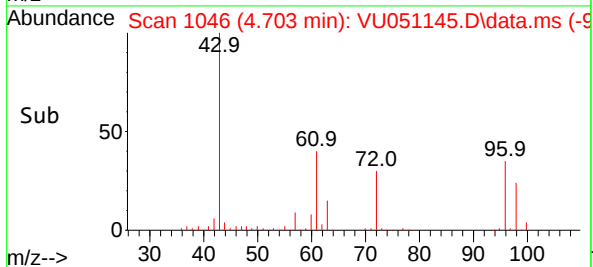
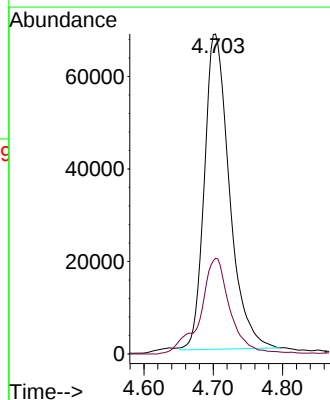
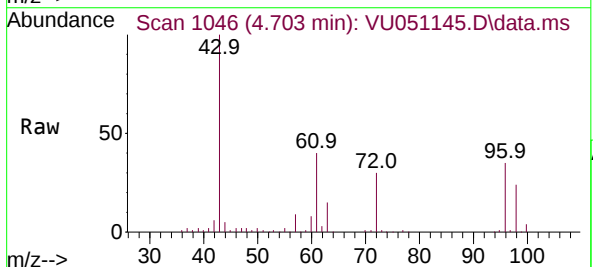
Delta R.T. 0.003 min

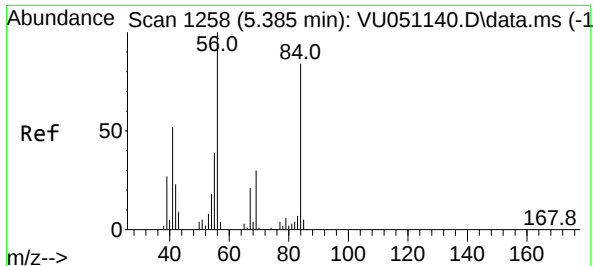
Lab File: VU051145.D

Acq: 05 Oct 2022 23:06

Tgt Ion: 43 Resp: 171067

Ion	Ratio	Lower	Upper
43	100		
72	30.9	15.8	47.4





#29

Cyclohexane

Concen: 122.829 ug/L

RT: 5.385 min Scan# 1258

Delta R.T. -0.000 min

Lab File: VU051145.D

Acq: 05 Oct 2022 23:06

Instrument :

MSVOA_U

ClientSampleId :

EXZ62

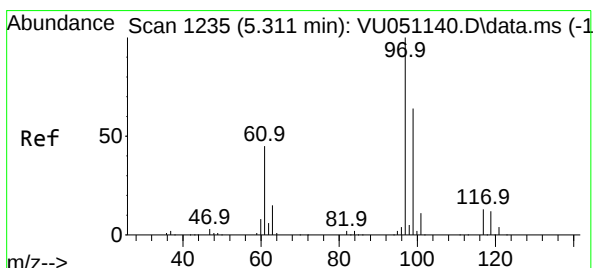
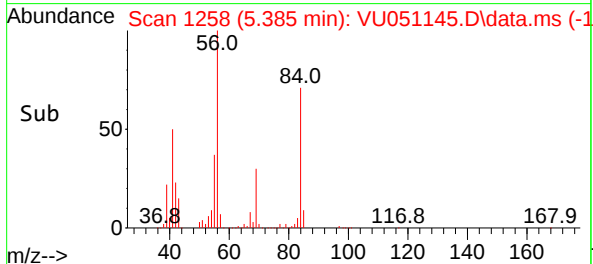
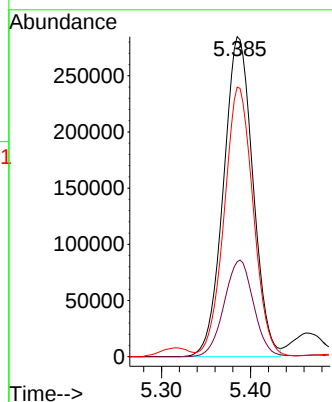
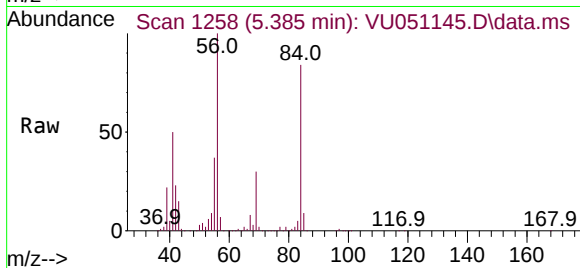
Tgt Ion: 56 Resp: 654703

Ion Ratio Lower Upper

56 100

69 30.2 24.8 37.2

84 82.9 71.8 107.6



#30

1,1,1-Trichloroethane

Concen: 163.794 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. 0.003 min

Lab File: VU051145.D

Acq: 05 Oct 2022 23:06

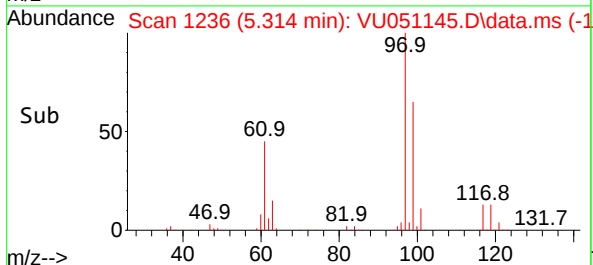
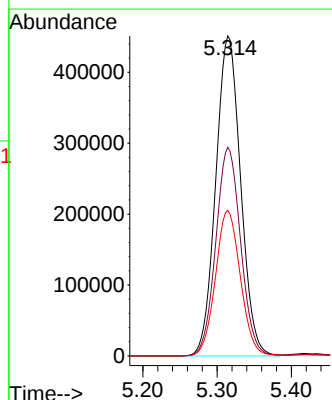
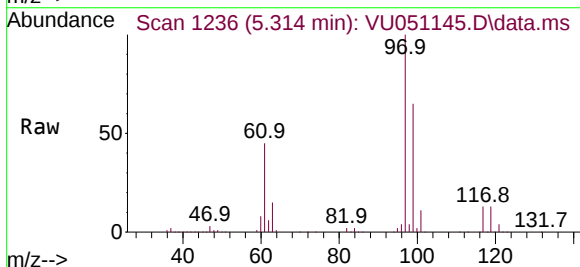
Tgt Ion: 97 Resp: 1051556

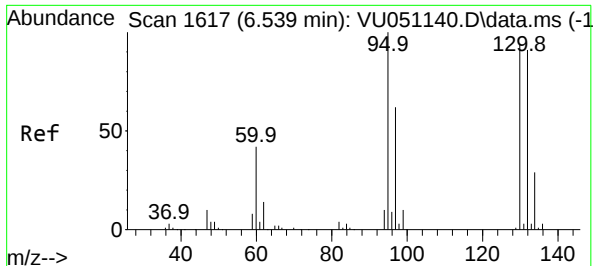
Ion Ratio Lower Upper

97 100

99 65.2 51.4 77.2

61 45.4 36.0 54.0

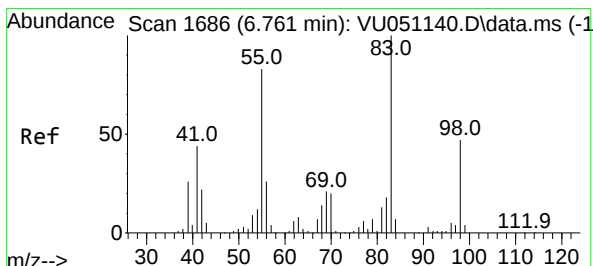
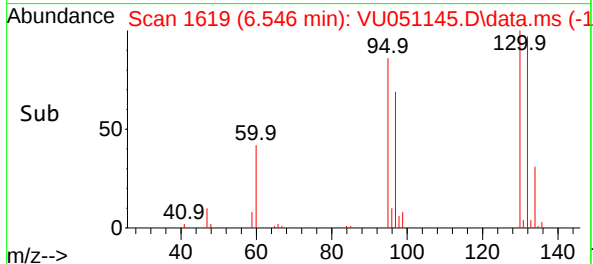
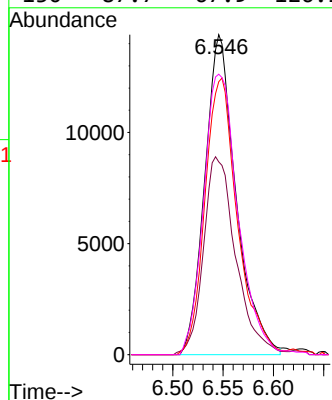
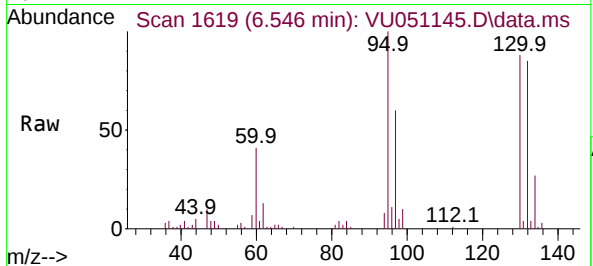




#34
Trichloroethene
Concen: 7.242 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. 0.006 min
Lab File: VU051145.D
Acq: 05 Oct 2022 23:06

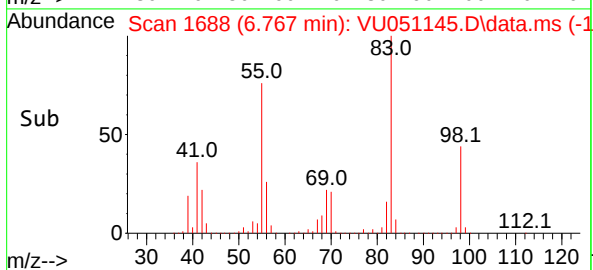
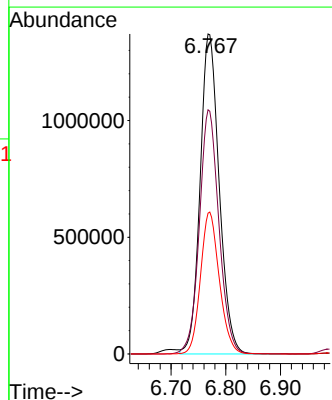
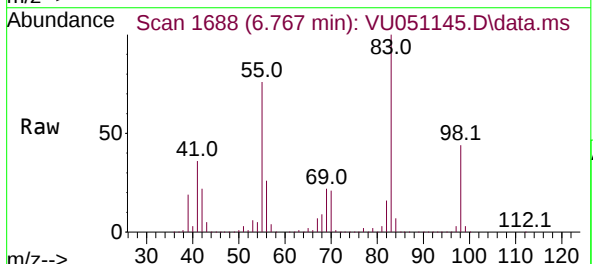
Instrument :
MSVOA_U
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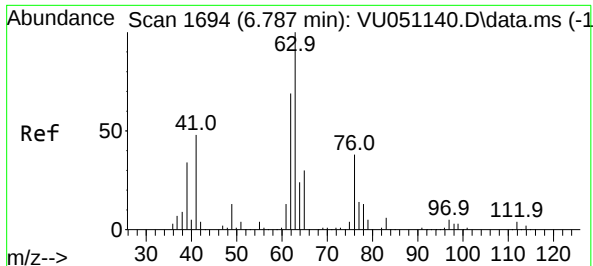
Tgt Ion: 95 Resp: 31305
Ion Ratio Lower Upper
95 100
97 60.3 45.9 85.3
132 85.3 64.0 119.0
130 87.7 67.9 126.1



#35
Methylcyclohexane
Concen: 563.960 ug/L
RT: 6.767 min Scan# 1688
Delta R.T. 0.006 min
Lab File: VU051145.D
Acq: 05 Oct 2022 23:06

Tgt Ion: 83 Resp: 3317914
Ion Ratio Lower Upper
83 100
55 78.5 59.3 88.9
98 43.7 36.0 54.0

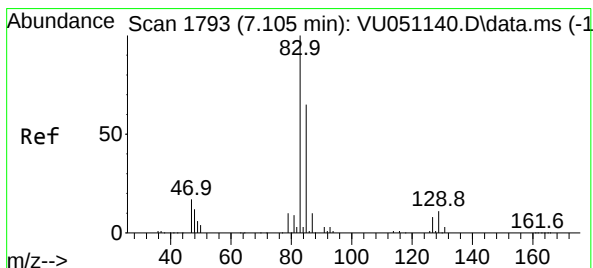
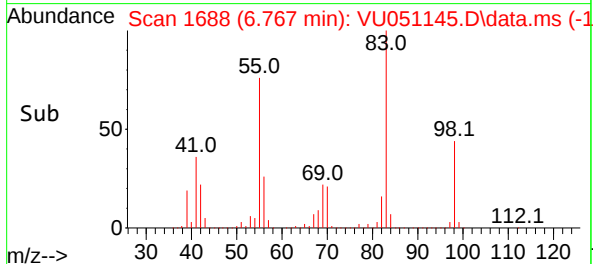
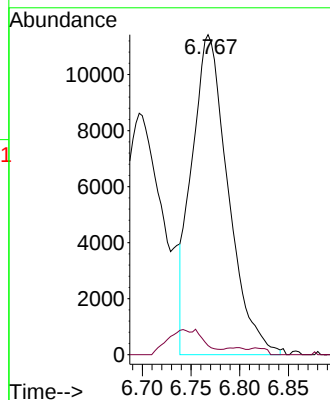
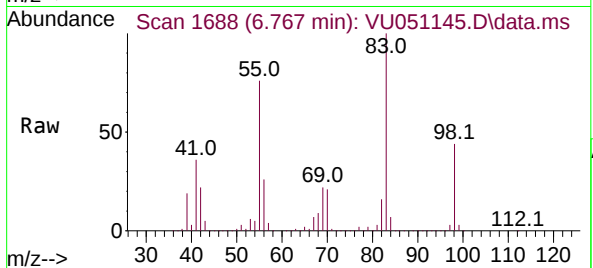




#37
1,2-Dichloropropane
Concen: 6.576 ug/L
RT: 6.767 min Scan# 1
Delta R.T. -0.019 min
Lab File: VU051145.D
Acq: 05 Oct 2022 23:06

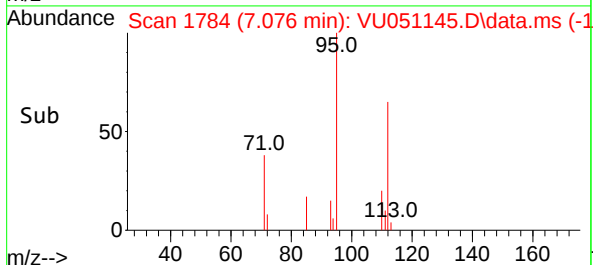
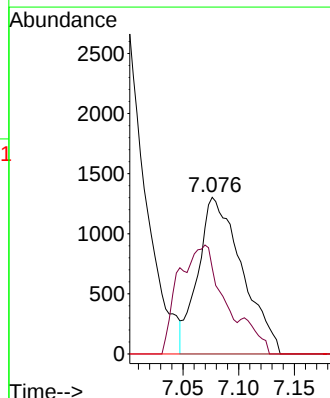
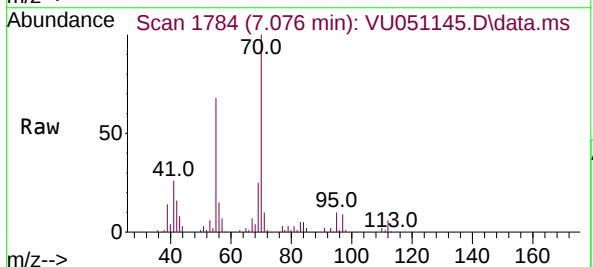
Instrument :
MSVOA_U
ClientSampleId :
EXZ62

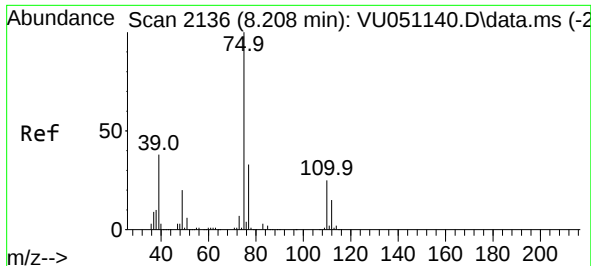
Tgt Ion: 63 Resp: 29553
Ion Ratio Lower Upper
63 100
112 4.7 3.3 4.9



#38
Bromodichloromethane
Concen: 0.597 ug/L
RT: 7.076 min Scan# 1784
Delta R.T. -0.029 min
Lab File: VU051145.D
Acq: 05 Oct 2022 23:06

Tgt Ion: 83 Resp: 3578
Ion Ratio Lower Upper
83 100
85 55.0 45.1 83.7
127 0.0 6.7 10.1#

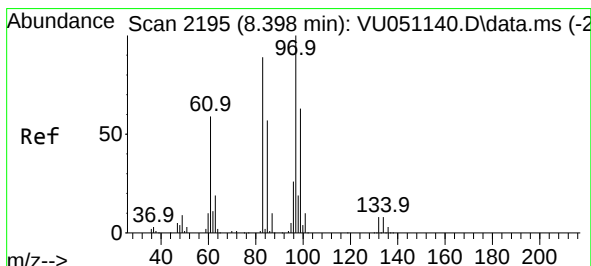
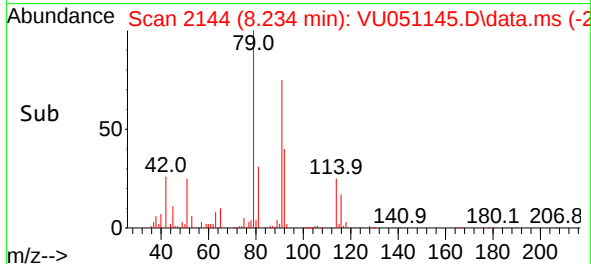
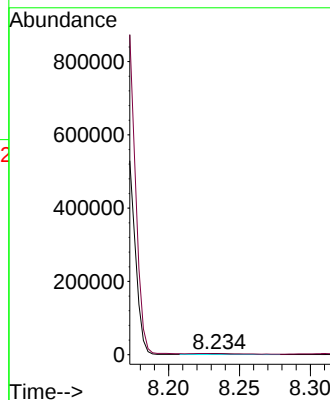
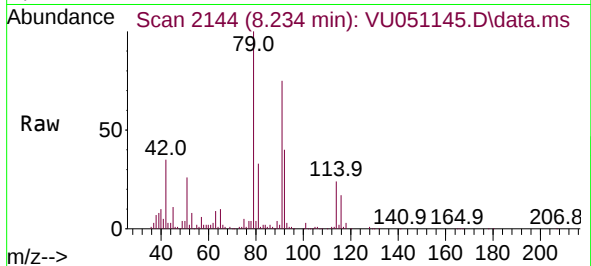




#44
trans-1,3-Dichloropropene
Concen: 0.691 ug/L
RT: 8.234 min Scan# 2136
Delta R.T. 0.026 min
Lab File: VU051145.D
Acq: 05 Oct 2022 23:06

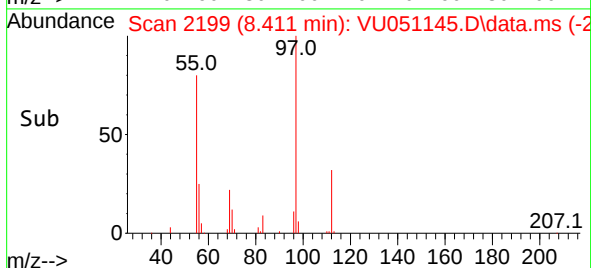
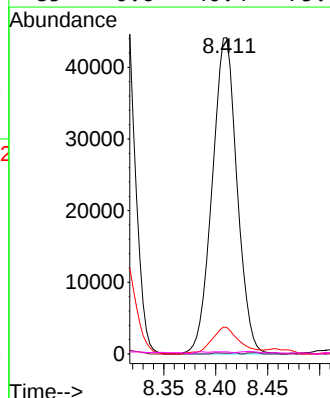
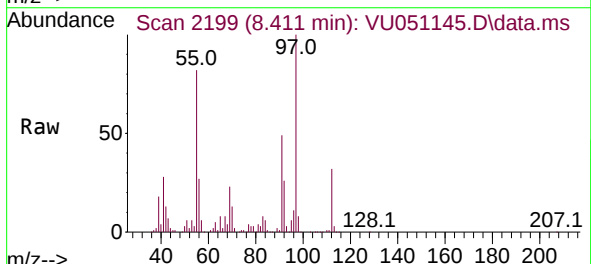
Instrument :
MSVOA_U
ClientSampleId :
EXZ62

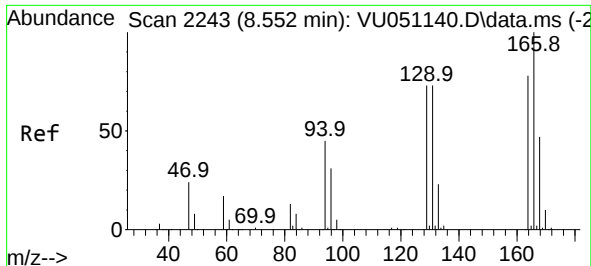
Tgt Ion: 75 Resp: 4448
Ion Ratio Lower Upper
75 100
77 86.5 22.7 42.3#



#45
1,1,2-Trichloroethane
Concen: 15.065 ug/L
RT: 8.411 min Scan# 2199
Delta R.T. 0.013 min
Lab File: VU051145.D
Acq: 05 Oct 2022 23:06

Tgt Ion: 97 Resp: 73336
Ion Ratio Lower Upper
97 100
99 0.2 44.4 82.4#
83 8.4 61.7 114.5#
85 0.6 40.4 75.0#

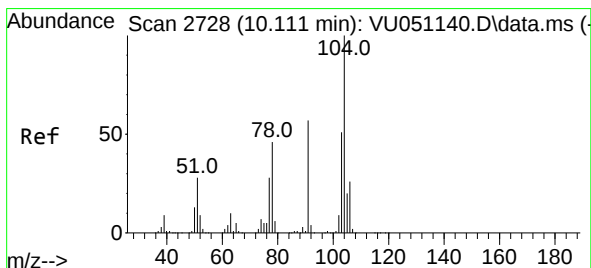
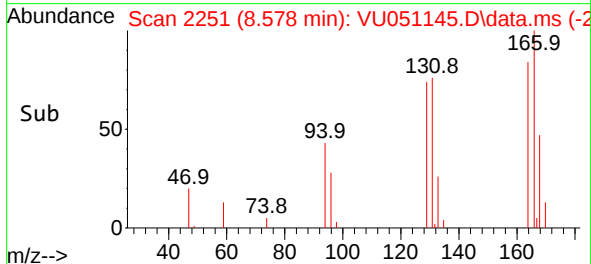
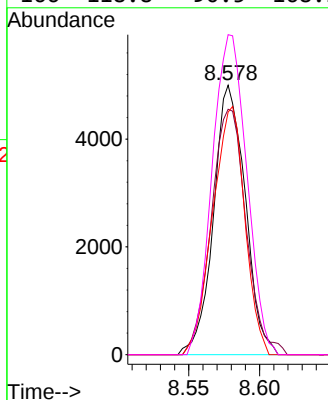
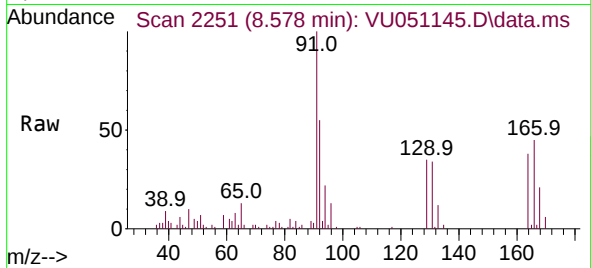




#46
Tetrachloroethene
Concen: 2.379 ug/L
RT: 8.578 min Scan# 21
Delta R.T. 0.026 min
Lab File: VU051145.D
Acq: 05 Oct 2022 23:06

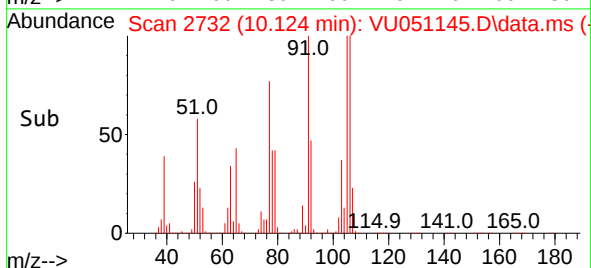
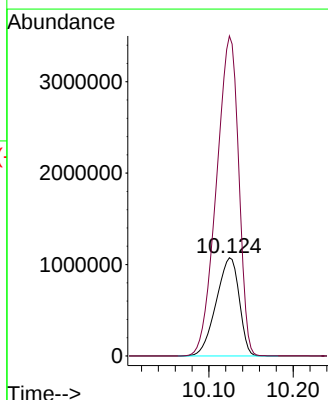
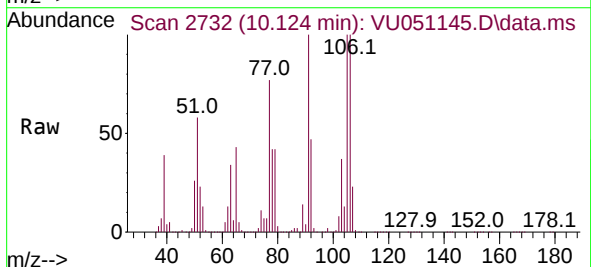
Instrument :
MSVOA_U
ClientSampleId :
EXZ62

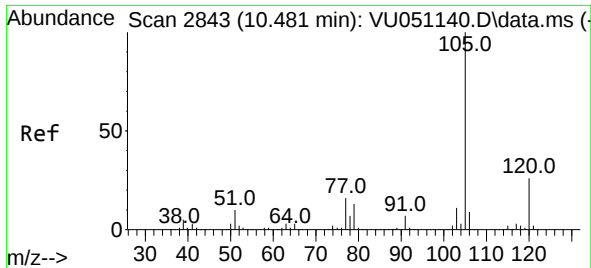
Tgt Ion:164 Resp: 7794
Ion Ratio Lower Upper
164 100
129 91.1 68.1 126.5
131 92.5 67.8 126.0
166 118.8 90.5 168.1



#55
Styrene
Concen: 165.280 ug/L
RT: 10.124 min Scan# 2732
Delta R.T. 0.013 min
Lab File: VU051145.D
Acq: 05 Oct 2022 23:06

Tgt Ion:104 Resp: 2033070
Ion Ratio Lower Upper
104 100
78 325.6 31.0 57.6#

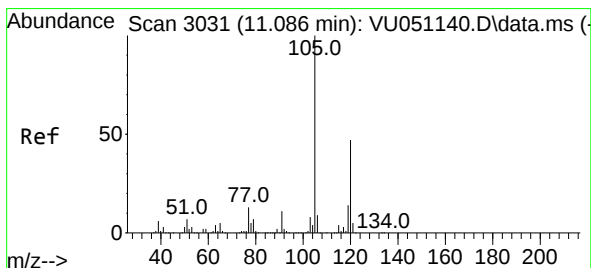
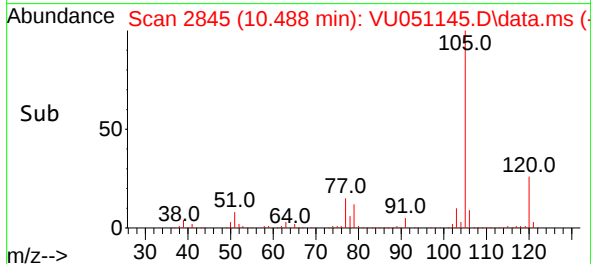
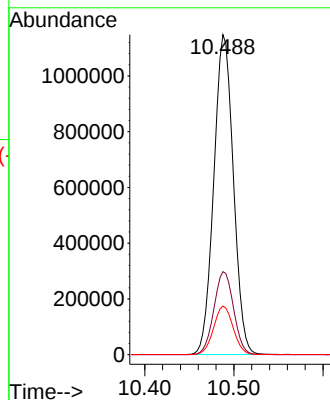
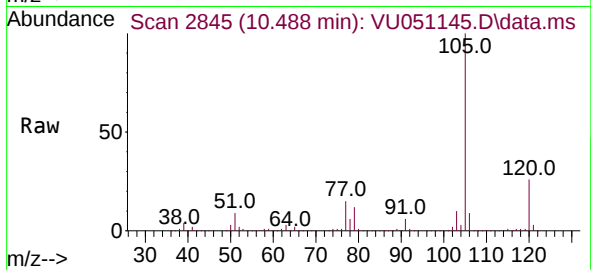




#61
Isopropylbenzene
Concen: 92.769 ug/L
RT: 10.488 min Scan# 21
Delta R.T. 0.006 min
Lab File: VU051145.D
Acq: 05 Oct 2022 23:06

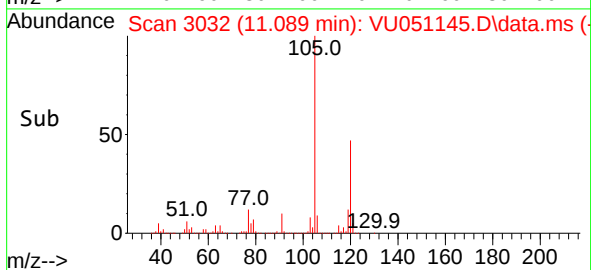
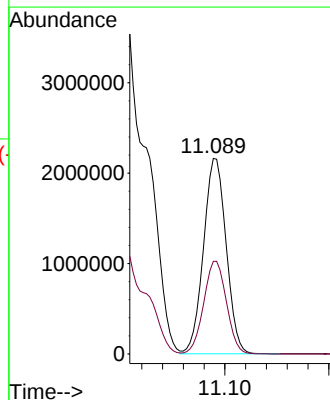
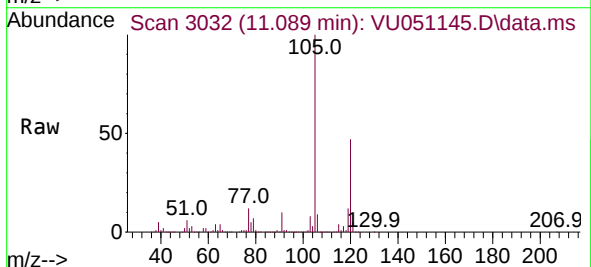
Instrument :
MSVOA_U
ClientSampleId :
EXZ62

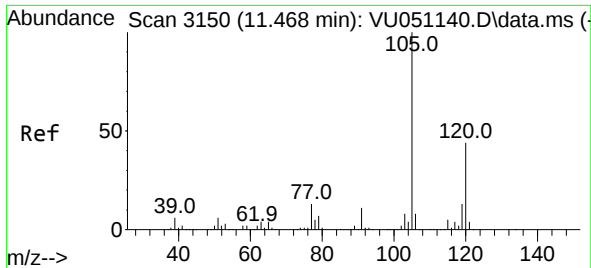
Tgt Ion:105 Resp: 1750442
Ion Ratio Lower Upper
105 100
120 26.1 21.1 31.7
77 15.2 12.8 19.2



#62
1,3,5-Trimethylbenzene
Concen: 212.366 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. 0.003 min
Lab File: VU051145.D
Acq: 05 Oct 2022 23:06

Tgt Ion:105 Resp: 3276641
Ion Ratio Lower Upper
105 100
120 47.6 37.8 56.8

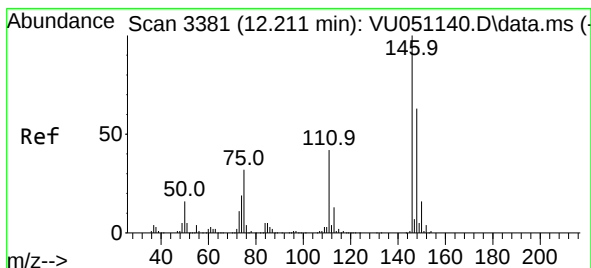
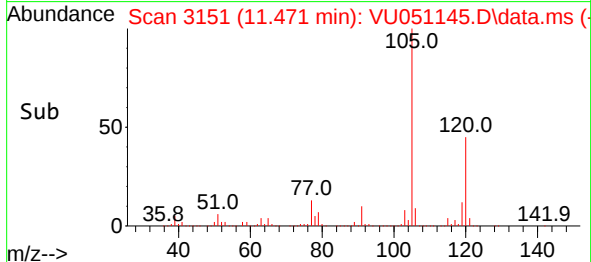
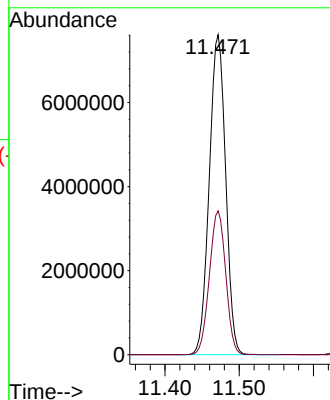
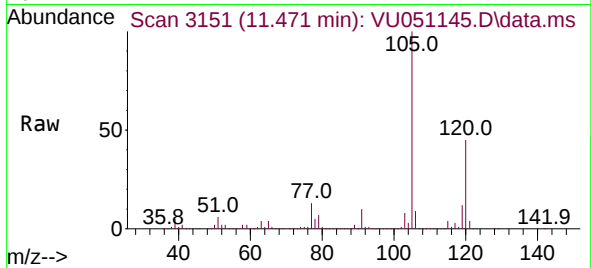




#63
1,2,4-Trimethylbenzene
Concen: 752.385 ug/L
RT: 11.471 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VU051145.D
Acq: 05 Oct 2022 23:06

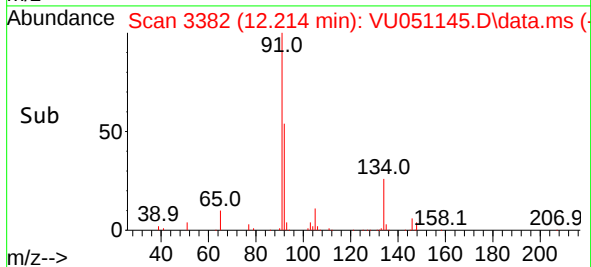
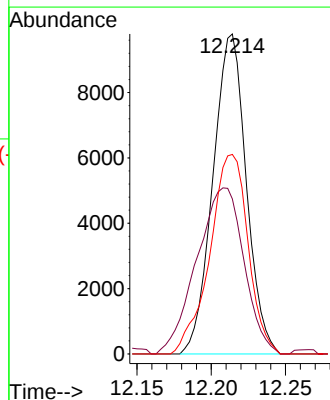
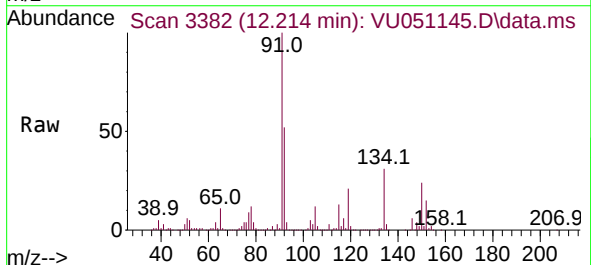
Instrument :
MSVOA_U
ClientSampleId :
EXZ62

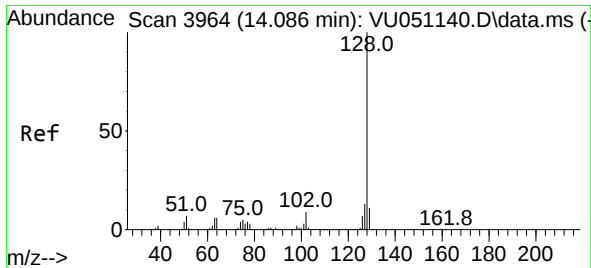
Tgt Ion:105 Resp:11634946
Ion Ratio Lower Upper
105 100
120 44.8 35.5 53.3



#67
1,2-Dichlorobenzene
Concen: 1.532 ug/L
RT: 12.214 min Scan# 3382
Delta R.T. 0.003 min
Lab File: VU051145.D
Acq: 05 Oct 2022 23:06

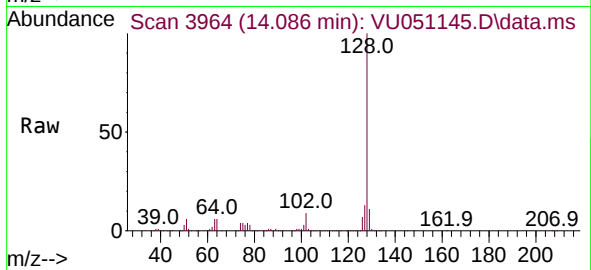
Tgt Ion:146 Resp: 15308
Ion Ratio Lower Upper
146 100
111 48.5 33.7 50.5
148 62.4 50.8 76.2





#71
Naphthalene
Concen: 60.973 ug/L
RT: 14.086 min Scan# 3964
Delta R.T. -0.000 min
Lab File: VU051145.D
Acq: 05 Oct 2022 23:06

Instrument :
MSVOA_U
ClientSampleId :
EXZ62



Tgt Ion:128 Resp: 1177812
Ion Ratio Lower Upper
128 100
127 13.0 10.7 16.1
129 10.8 8.6 13.0

