

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U032323\
 Data File : VU053371.D
 Acq On : 23 Mar 2023 15:00
 Operator : JC/MD
 Sample : 02037-03
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 E45E6

Quant Time: Mar 24 12:20:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM031523WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Mar 23 02:41:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	139036	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.410	117	129136	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.806	152	59499	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	44972	35.061	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	70.120%
7) Chloroethane-d5	1.912	69	40175	38.722	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	77.440%
11) 1,1-Dichloroethene-d2	2.565	63	60968	27.438	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	54.880%#
21) 2-Butanone-d5	4.616	46	73951	124.305	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	124.310%
24) Chloroform-d	5.057	84	85581	40.509	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.020%
26) 1,2-Dichloroethane-d4	5.697	65	56421	43.002	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.000%
32) Benzene-d6	5.723	84	173631	41.454	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	82.900%
36) 1,2-Dichloropropane-d6	6.684	67	58379	43.185	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	86.360%
41) Toluene-d8	7.893	98	154206	39.543	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	79.080%#
43) trans-1,3-Dichloroprop...	8.176	79	27487	41.211	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.420%
47) 2-Hexanone-d5	8.626	63	48137	113.897	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.900%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	86405	49.340	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.680%
66) 1,2-Dichlorobenzene-d4	12.188	152	53485	46.425	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.860%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	9667	6.608	ug/L	87
12) 1,1-Dichloroethene	2.578	96	1411	1.382	ug/L #	1
13) Acetone	2.629	43	1915	2.826	ug/L	98
17) trans-1,2-Dichloroethene	3.353	96	9081	8.765	ug/L	98
19) 1,1-Dichloroethane	3.867	63	7879	3.726	ug/L	95
20) cis-1,2-Dichloroethene	4.658	96	741565	609.412	ug/L	97
30) 1,1,1-Trichloroethane	5.314	97	3818	2.169	ug/L	94
33) Benzene	5.771	78	9116	2.036	ug/L	100
34) Trichloroethene	6.536	95	5572	4.773	ug/L	97
35) Methylcyclohexane	6.687	83	13103	6.403	ug/L #	21
42) Toluene	7.964	91	14119	2.933	ug/L	99
46) Tetrachloroethene	8.549	164	9701	12.773	ug/L	95
49) Dibromochloromethane	8.549	129	10570	9.085	ug/L #	12
51) Chlorobenzene	9.443	112	20826	6.942	ug/L	97
53) m,p-Xylene	9.687	106	6248	3.067	ug/L	97
54) o-Xylene	10.095	106	2400	1.191	ug/L	98
60) 1,2,3-Trichloropropane	11.809	75	8724	7.379	ug/L #	68
63) 1,2,4-Trimethylbenzene	11.462	105	7984	2.105	ug/L	97
67) 1,2-Dichlorobenzene	12.211	146	4586	2.327	ug/L #	87

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Quant Title : VOC Analysis
QLast Update : Thu Mar 23 02:41:20 2023
Response via : Initial Calibration

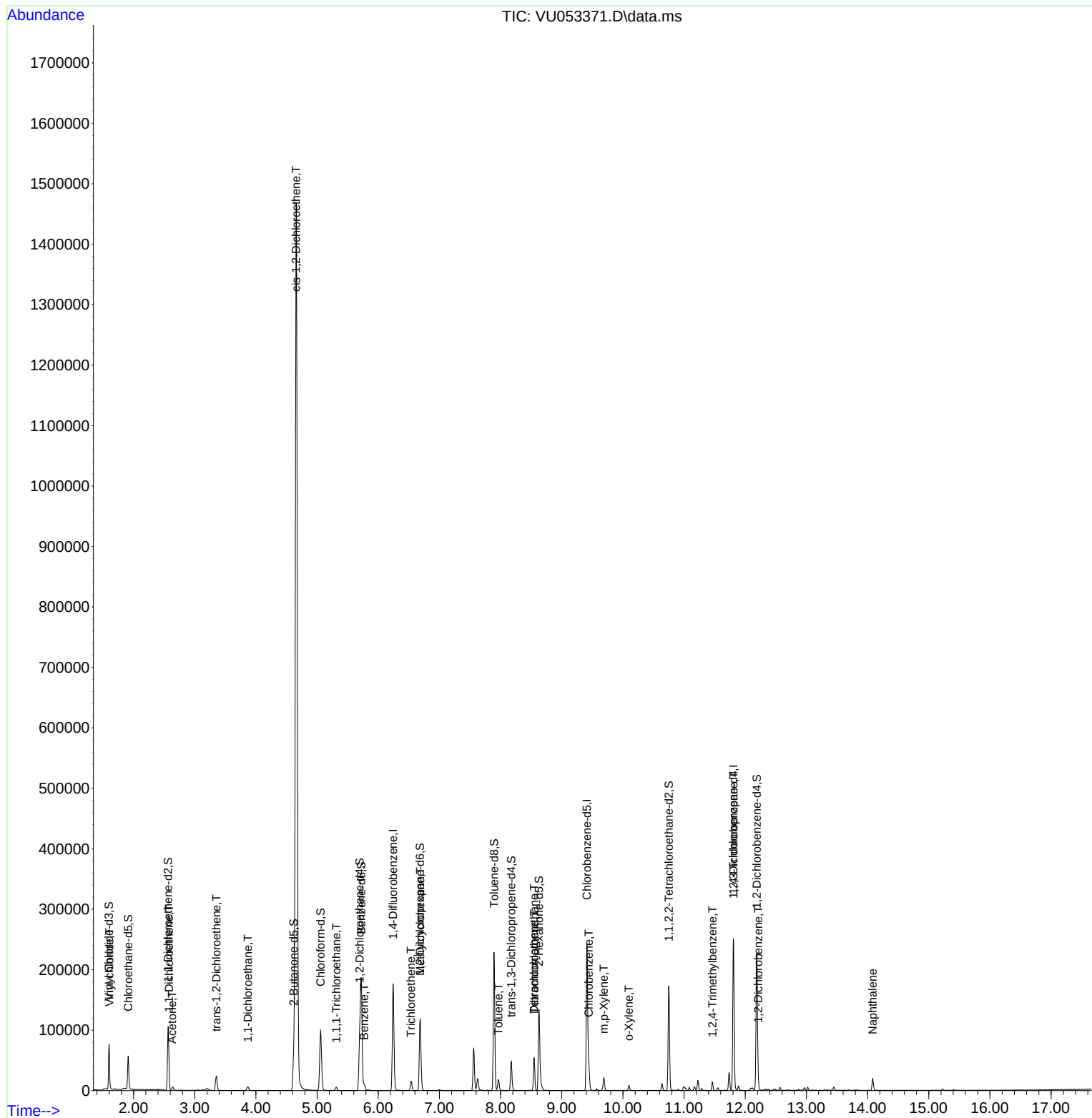
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) Naphthalene	14.082	128	16184	4.275	ug/L	99

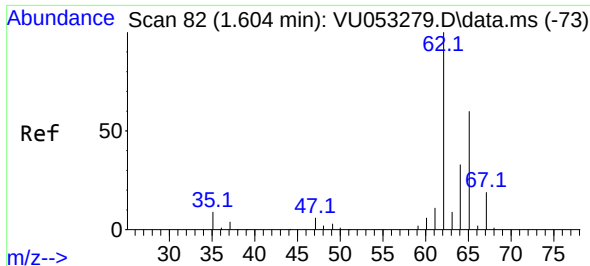
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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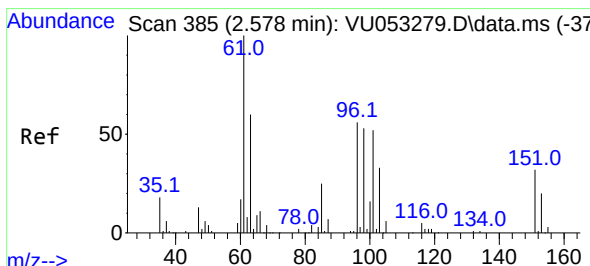
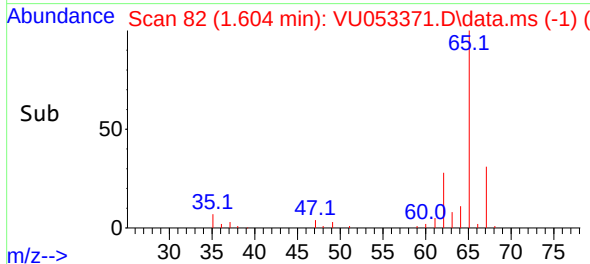
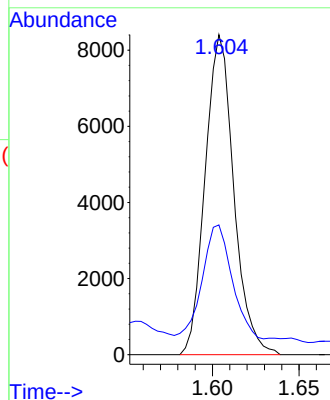
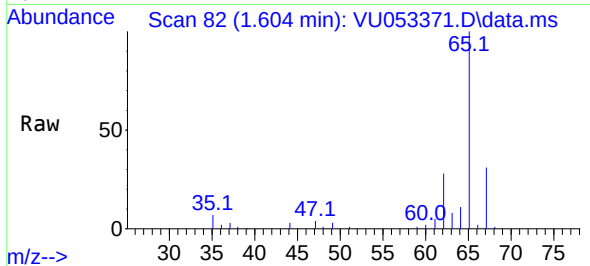




#5
 Vinyl chloride
 Concen: 6.608 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU053371.D
 Acq: 23 Mar 2023 15:00

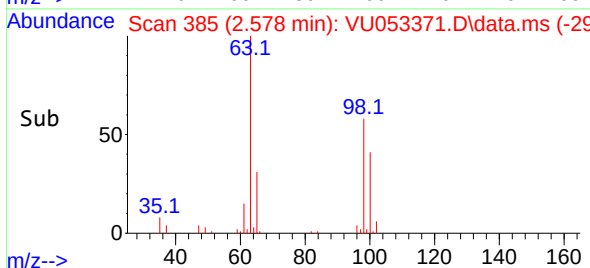
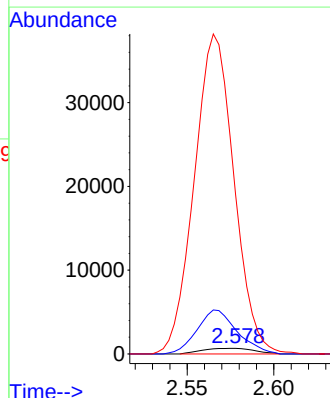
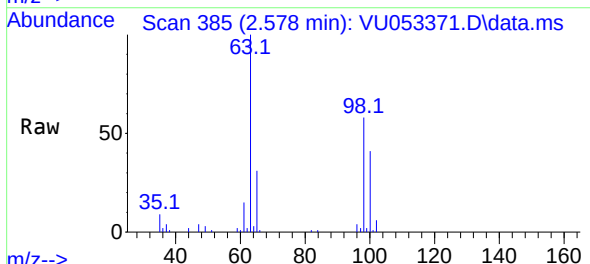
Instrument :
 MSVOA_U
 ClientSampleId :
 E45E6

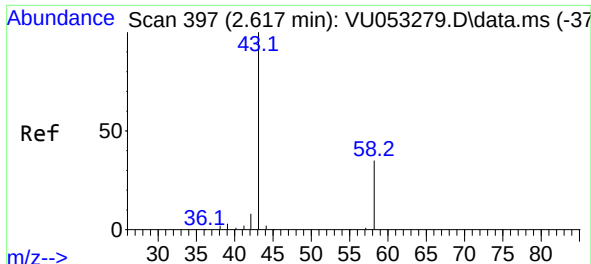
Tgt Ion: 62 Resp: 9667
 Ion Ratio Lower Upper
 62 100
 64 40.6 23.2 43.0



#12
 1,1-Dichloroethene
 Concen: 1.382 ug/L
 RT: 2.578 min Scan# 385
 Delta R.T. -0.000 min
 Lab File: VU053371.D
 Acq: 23 Mar 2023 15:00

Tgt Ion: 96 Resp: 1411
 Ion Ratio Lower Upper
 96 100
 61 427.8 122.2 226.9#
 63 2832.7 89.9 166.9#

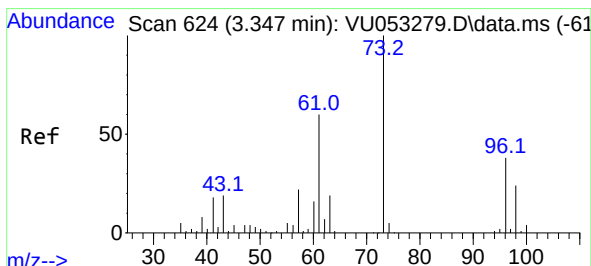
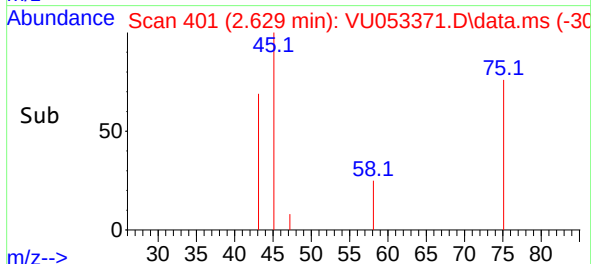
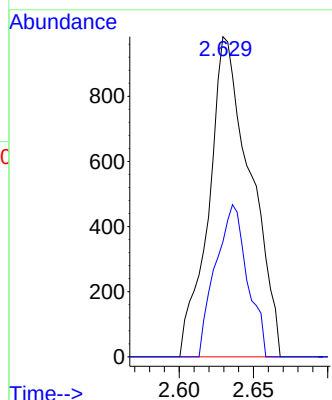
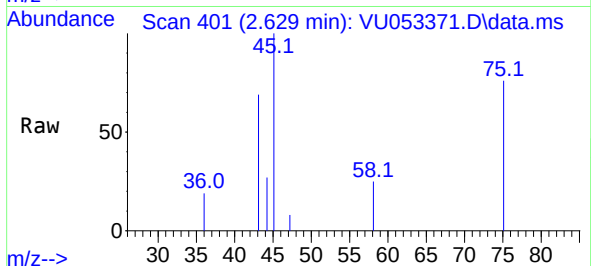




#13
Acetone
Concen: 2.826 ug/L
RT: 2.629 min Scan# 401
Delta R.T. -0.003 min
Lab File: VU053371.D
Acq: 23 Mar 2023 15:00

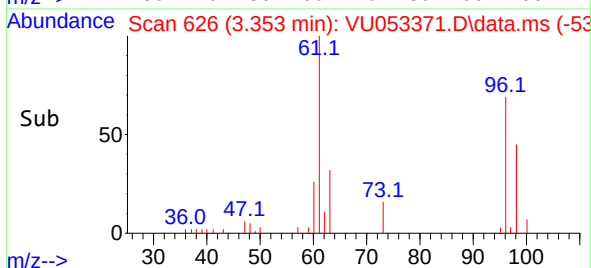
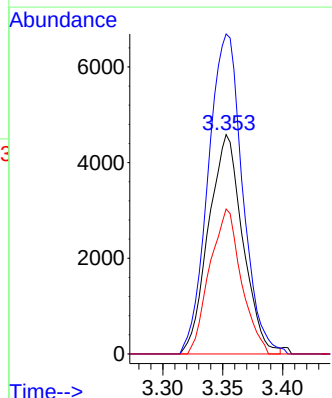
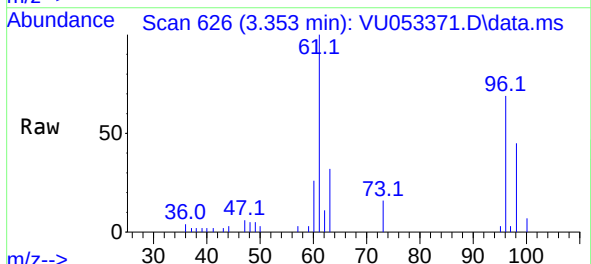
Instrument :
MSVOA_U
ClientSampleId :
E45E6

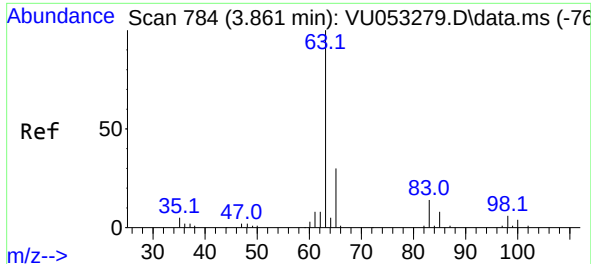
Tgt Ion: 43 Resp: 1915
Ion Ratio Lower Upper
43 100
58 36.3 0.0 75.0



#17
trans-1,2-Dichloroethene
Concen: 8.765 ug/L
RT: 3.353 min Scan# 626
Delta R.T. 0.003 min
Lab File: VU053371.D
Acq: 23 Mar 2023 15:00

Tgt Ion: 96 Resp: 9081
Ion Ratio Lower Upper
96 100
61 145.9 99.6 185.0
98 66.1 45.5 84.5



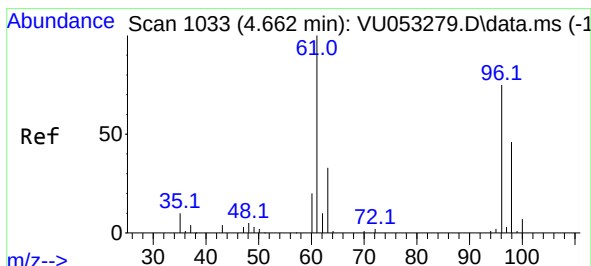
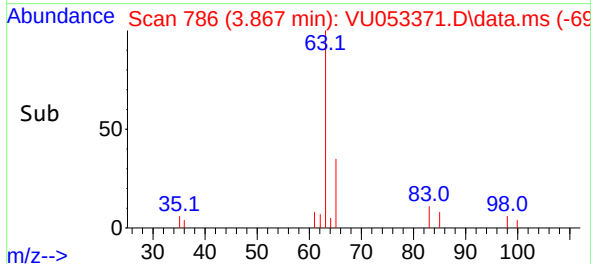
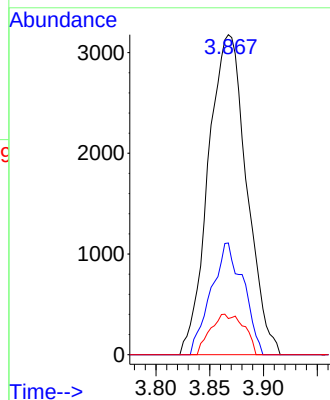
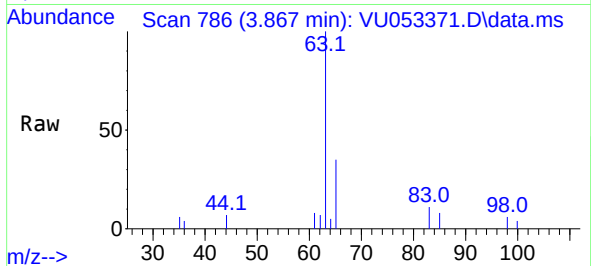


#19
1,1-Dichloroethane
Concen: 3.726 ug/L
RT: 3.867 min Scan# 784
Delta R.T. 0.003 min
Lab File: VU053371.D
Acq: 23 Mar 2023 15:00

Instrument :
MSVOA_U
ClientSampleId :
E45E6

Tgt Ion: 63 Resp: 7879

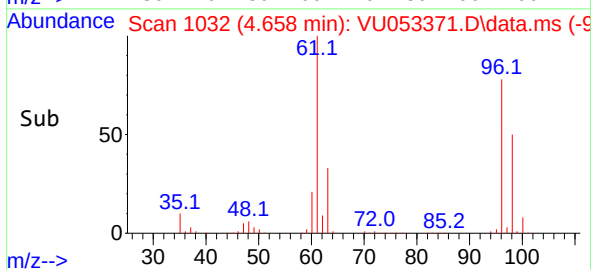
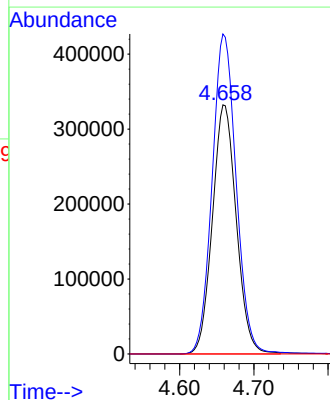
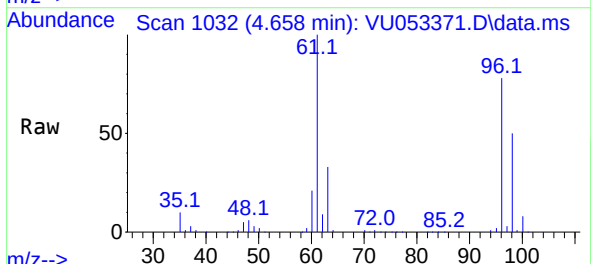
Ion	Ratio	Lower	Upper
63	100		
65	34.9	22.8	42.4
83	11.3	9.4	17.6

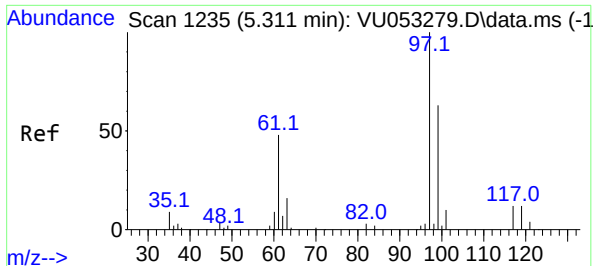


#20
cis-1,2-Dichloroethene
Concen: 609.412 ug/L
RT: 4.658 min Scan# 1032
Delta R.T. -0.003 min
Lab File: VU053371.D
Acq: 23 Mar 2023 15:00

Tgt Ion: 96 Resp: 741565

Ion	Ratio	Lower	Upper
96	100		
61	128.5	92.5	171.7
68	0.0	0.0	0.0

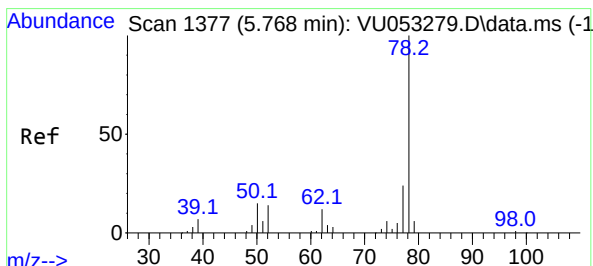
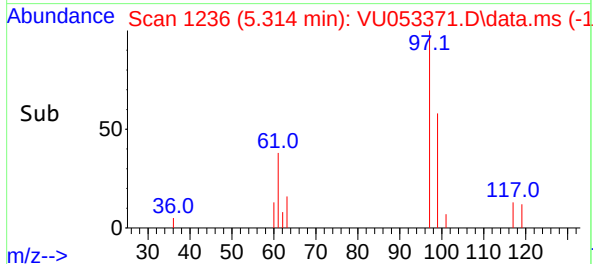
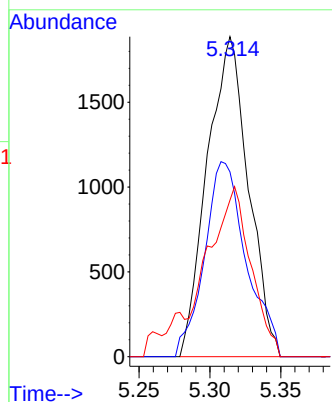
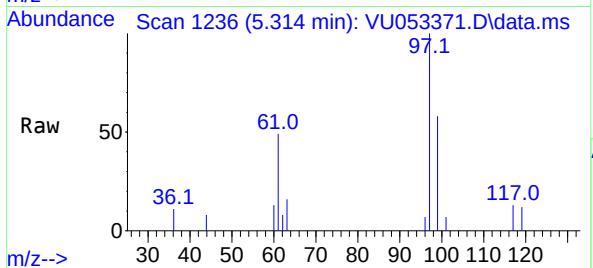




#30
1,1,1-Trichloroethane
Concen: 2.169 ug/L
RT: 5.314 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU053371.D
Acq: 23 Mar 2023 15:00

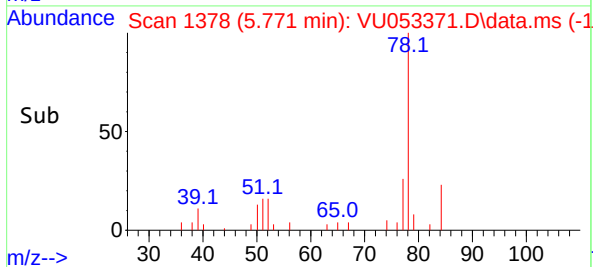
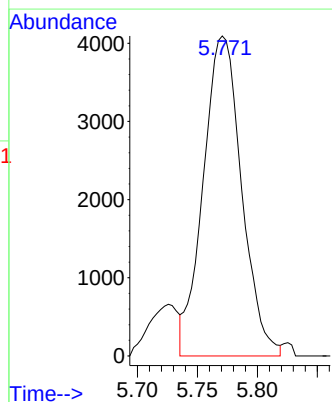
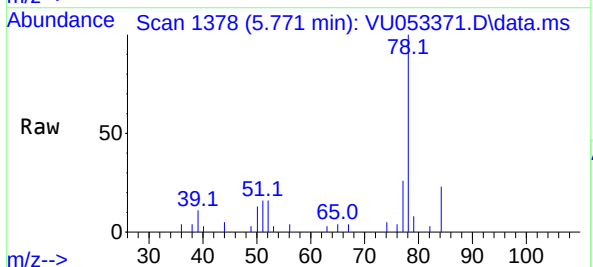
Instrument :
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ClientSampleId :
E45E6

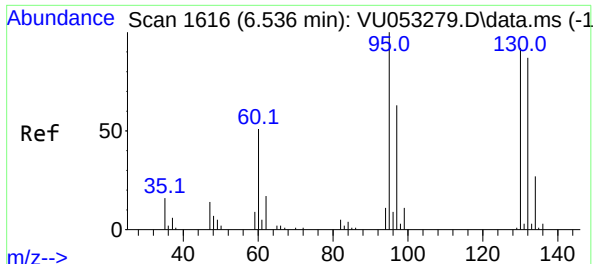
Tgt Ion: 97 Resp: 3818
Ion Ratio Lower Upper
97 100
99 61.8 50.6 76.0
61 37.1 36.0 54.0



#33
Benzene
Concen: 2.036 ug/L
RT: 5.771 min Scan# 1378
Delta R.T. -0.000 min
Lab File: VU053371.D
Acq: 23 Mar 2023 15:00

Tgt Ion: 78 Resp: 9116



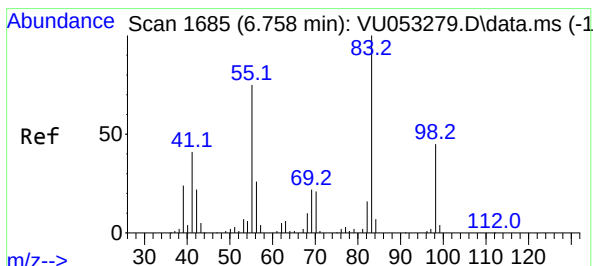
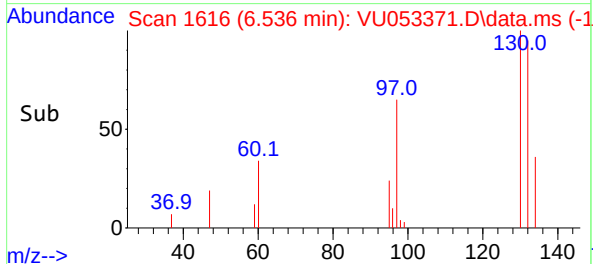
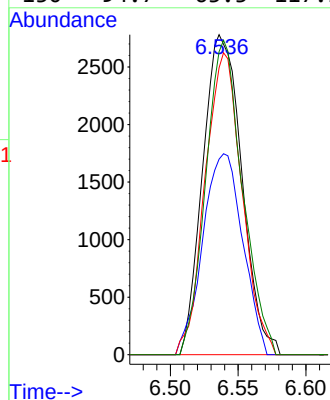
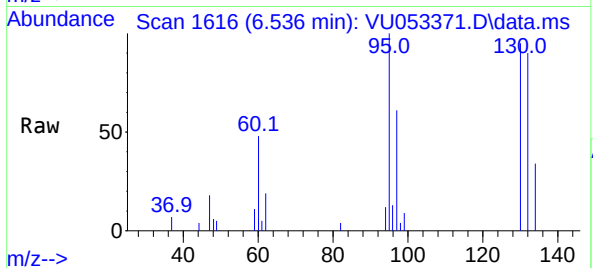


#34
Trichloroethene
Concen: 4.773 ug/L
RT: 6.536 min Scan# 1663
Delta R.T. -0.003 min
Lab File: VU053371.D
Acq: 23 Mar 2023 15:00

Instrument :
MSVOA_U
ClientSampleId :
E45E6

Tgt Ion: 95 Resp: 5572

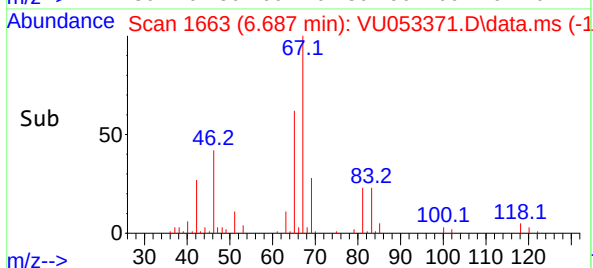
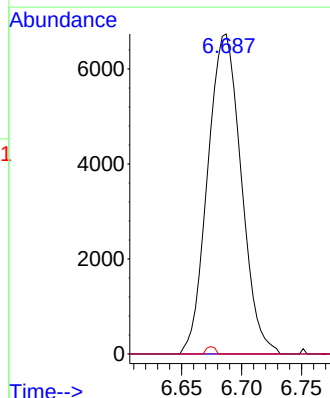
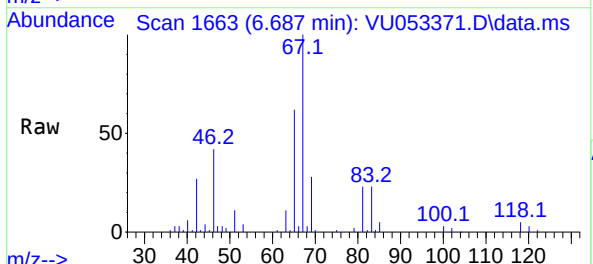
Ion	Ratio	Lower	Upper
95	100		
97	61.1	43.8	81.3
132	89.6	61.5	114.3
130	94.7	63.3	117.5

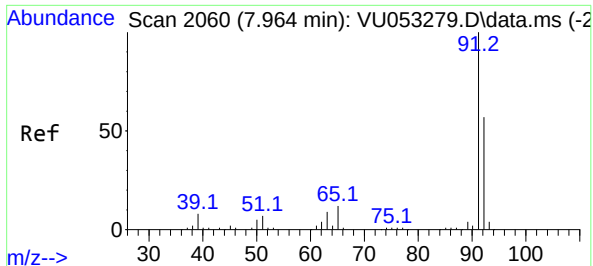


#35
Methylcyclohexane
Concen: 6.403 ug/L
RT: 6.687 min Scan# 1663
Delta R.T. -0.071 min
Lab File: VU053371.D
Acq: 23 Mar 2023 15:00

Tgt Ion: 83 Resp: 13103

Ion	Ratio	Lower	Upper
83	100		
55	0.0	58.2	87.4#
98	0.6	35.4	53.2#





#42

Toluene

Concen: 2.933 ug/L

RT: 7.964 min Scan# 2060

Delta R.T. -0.000 min

Lab File: VU053371.D

Acq: 23 Mar 2023 15:00

Instrument :

MSVOA_U

ClientSampleId :

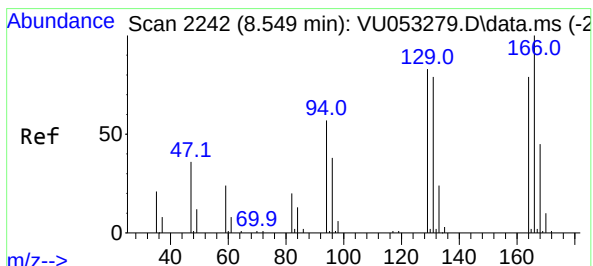
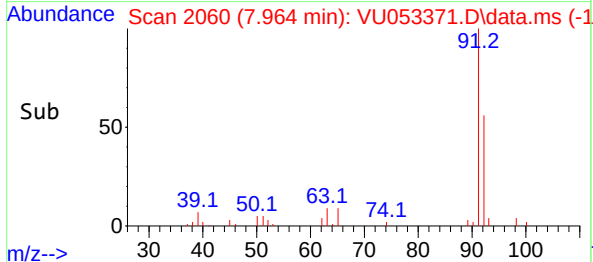
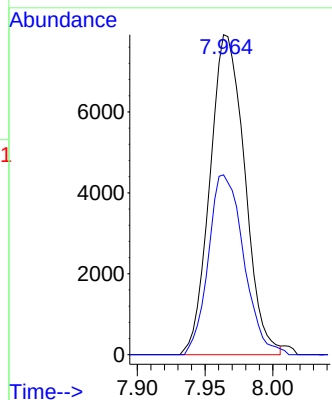
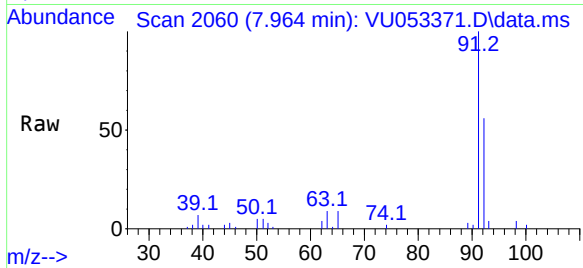
E45E6

Tgt Ion: 91 Resp: 14119

Ion Ratio Lower Upper

91 100

92 56.2 39.6 73.6



#46

Tetrachloroethene

Concen: 12.773 ug/L

RT: 8.549 min Scan# 2242

Delta R.T. -0.000 min

Lab File: VU053371.D

Acq: 23 Mar 2023 15:00

Tgt Ion: 164 Resp: 9701

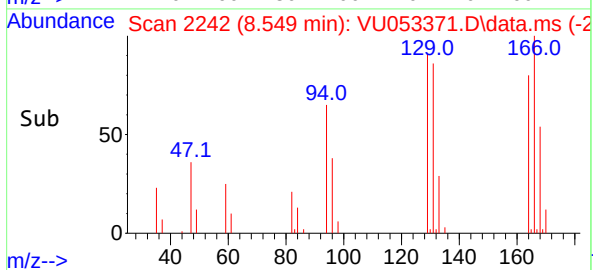
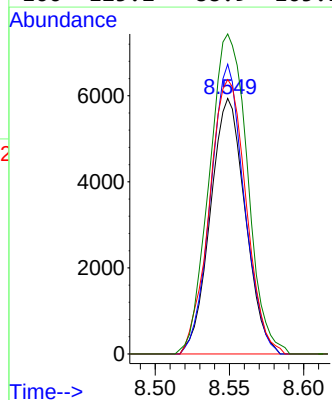
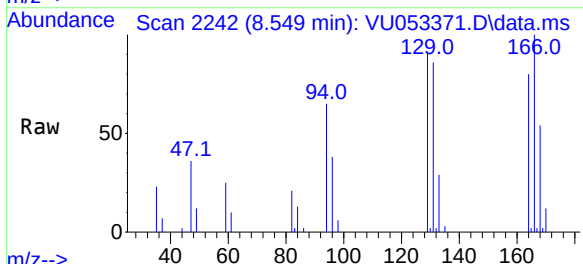
Ion Ratio Lower Upper

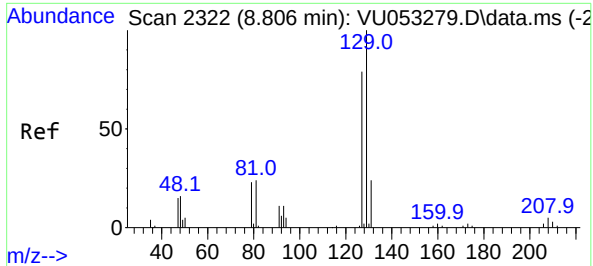
164 100

129 113.4 73.6 136.8

131 107.4 70.3 130.7

166 125.2 88.9 165.1

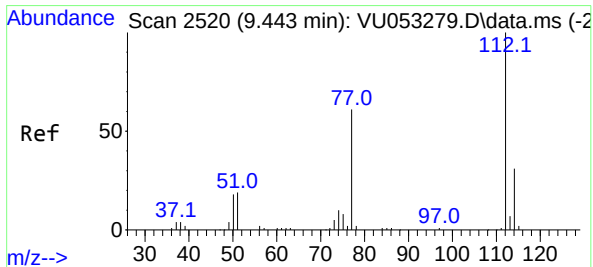
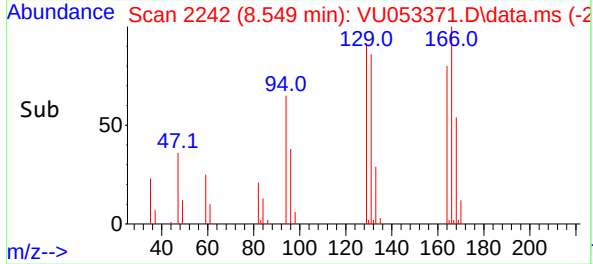
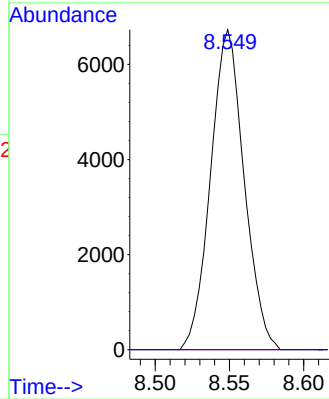
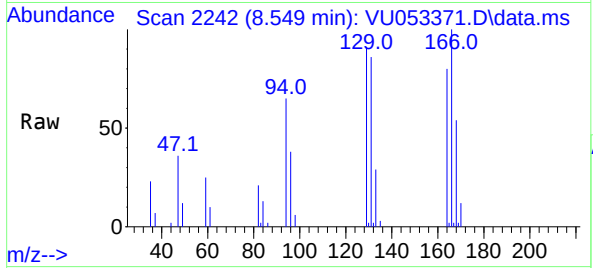




#49
Dibromochloromethane
Concen: 9.085 ug/L
RT: 8.549 min Scan# 21
Delta R.T. -0.257 min
Lab File: VU053371.D
Acq: 23 Mar 2023 15:00

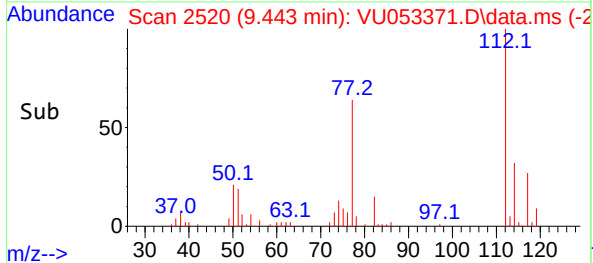
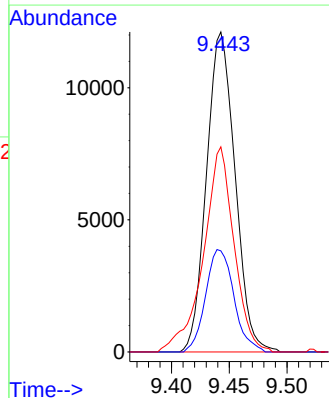
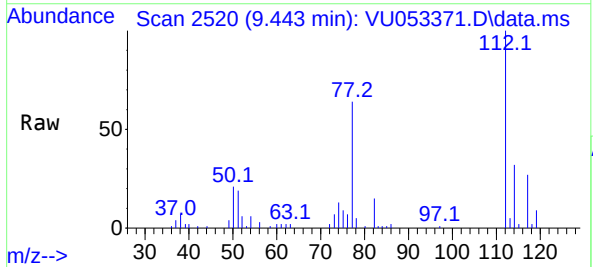
Instrument :
MSVOA_U
ClientSampleId :
E45E6

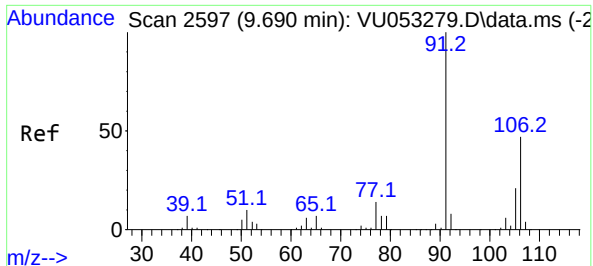
Tgt Ion:129 Resp: 10570
Ion Ratio Lower Upper
129 100
127 0.0 53.1 98.5#



#51
Chlorobenzene
Concen: 6.942 ug/L
RT: 9.443 min Scan# 2520
Delta R.T. -0.000 min
Lab File: VU053371.D
Acq: 23 Mar 2023 15:00

Tgt Ion:112 Resp: 20826
Ion Ratio Lower Upper
112 100
114 31.6 21.8 40.6
77 64.1 48.8 73.2

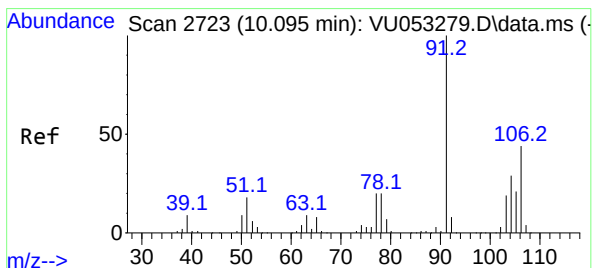
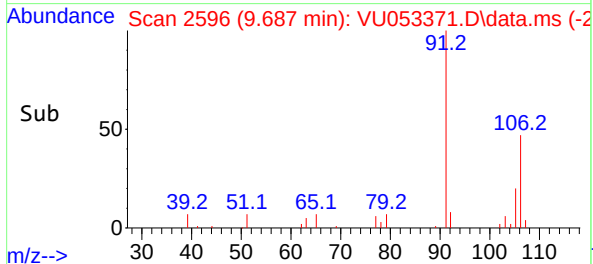
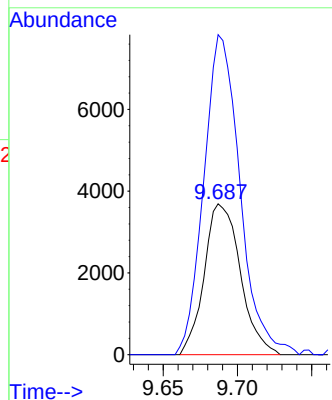
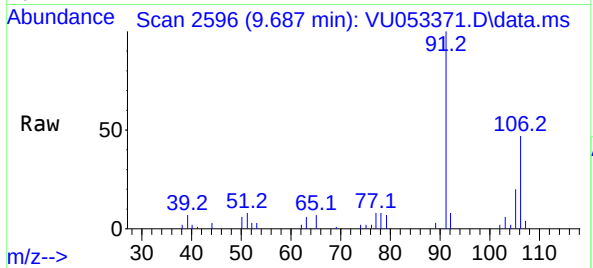




#53
m,p-Xylene
Concen: 3.067 ug/L
RT: 9.687 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU053371.D
Acq: 23 Mar 2023 15:00

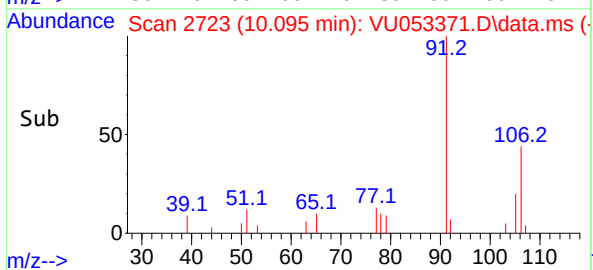
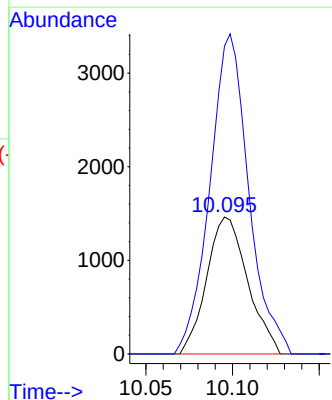
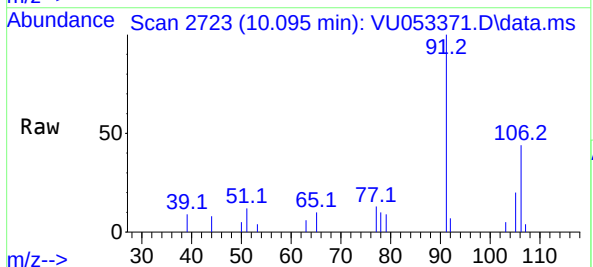
Instrument :
MSVOA_U
ClientSampleId :
E45E6

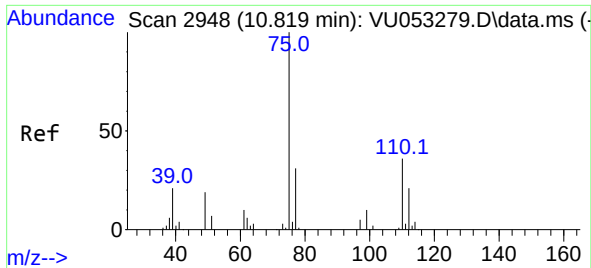
Tgt Ion:106 Resp: 6248
Ion Ratio Lower Upper
106 100
91 212.0 145.3 269.8



#54
o-Xylene
Concen: 1.191 ug/L
RT: 10.095 min Scan# 2723
Delta R.T. -0.000 min
Lab File: VU053371.D
Acq: 23 Mar 2023 15:00

Tgt Ion:106 Resp: 2400
Ion Ratio Lower Upper
106 100
91 224.9 154.9 287.7

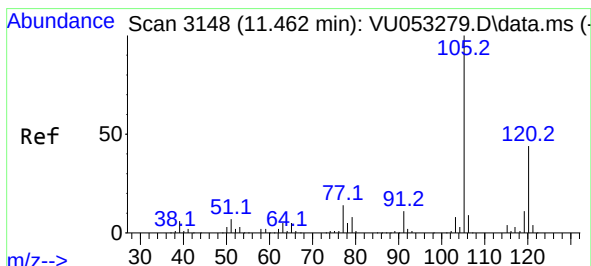
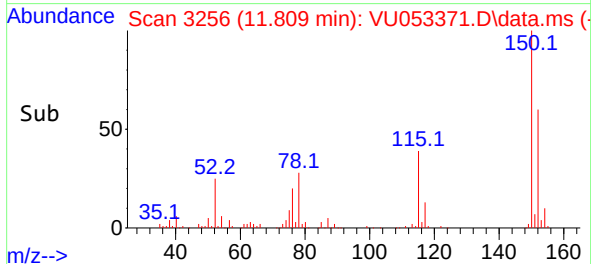
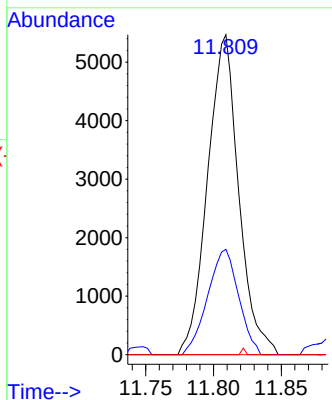
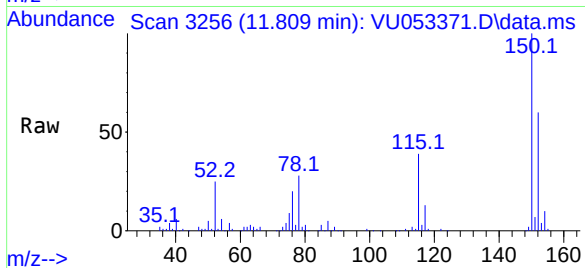




#60
1,2,3-Trichloropropane
Concen: 7.379 ug/L
RT: 11.809 min Scan# 311
Delta R.T. 0.993 min
Lab File: VU053371.D
Acq: 23 Mar 2023 15:00

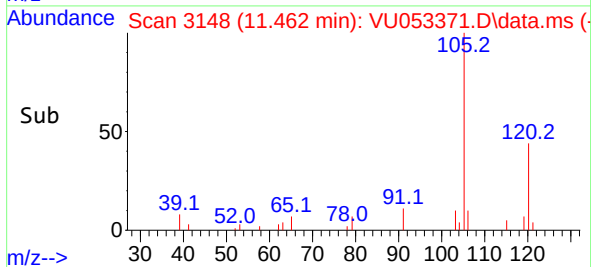
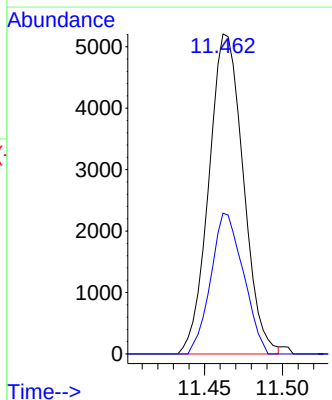
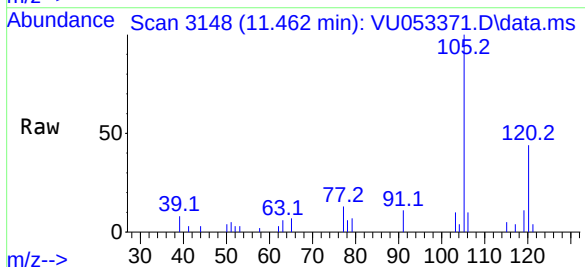
Instrument :
MSVOA_U
ClientSampleId :
E45E6

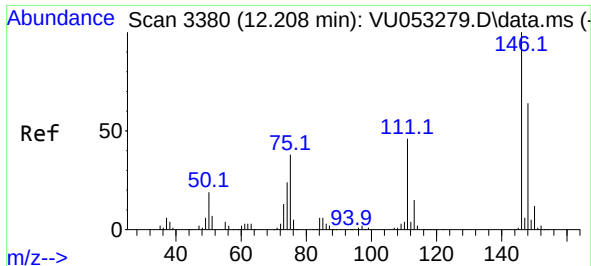
Tgt Ion: 75 Resp: 8724
Ion Ratio Lower Upper
75 100
77 32.8 26.6 40.0
110 0.0 28.6 42.8#



#63
1,2,4-Trimethylbenzene
Concen: 2.105 ug/L
RT: 11.462 min Scan# 3148
Delta R.T. -0.000 min
Lab File: VU053371.D
Acq: 23 Mar 2023 15:00

Tgt Ion: 105 Resp: 7984
Ion Ratio Lower Upper
105 100
120 41.5 34.6 52.0





#67

1,2-Dichlorobenzene

Concen: 2.327 ug/L

RT: 12.211 min Scan# 3380

Delta R.T. 0.003 min

Lab File: VU053371.D

Acq: 23 Mar 2023 15:00

Instrument :

MSVOA_U

ClientSampleId :

E45E6

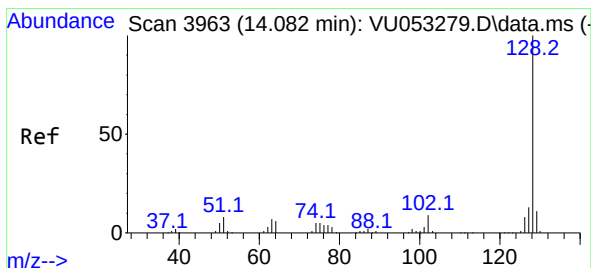
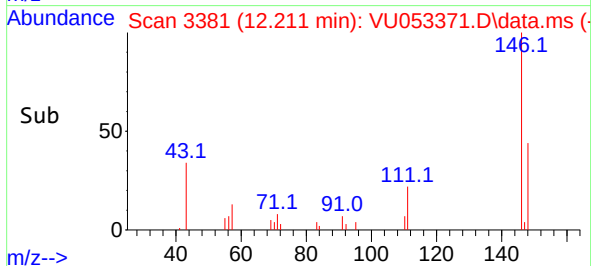
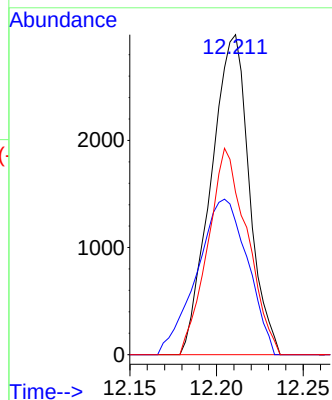
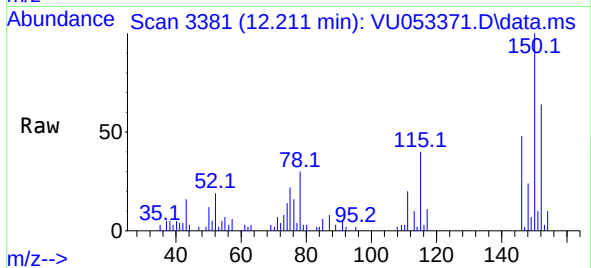
Tgt Ion:146 Resp: 4586

Ion Ratio Lower Upper

146 100

111 41.6 37.0 55.4

148 50.8 51.4 77.2#



#71

Naphthalene

Concen: 4.275 ug/L

RT: 14.082 min Scan# 3963

Delta R.T. -0.000 min

Lab File: VU053371.D

Acq: 23 Mar 2023 15:00

Tgt Ion:128 Resp: 16184

Ion Ratio Lower Upper

128 100

127 12.8 10.0 15.0

129 11.0 8.6 13.0

