

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U061022\
 Data File : U061022.D
 Acq On : 11 Jun 2022 06:46
 Operator : SY/MD
 Sample : N3249-17
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXYX5

Quant Time: Jun 11 07:58:15 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM061022WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jun 11 04:33:31 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	224579	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	224070	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	124842	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	99870	72.186	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	144.380%#
7) Chloroethane-d5	1.896	69	50688	49.898	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.800%
11) 1,1-Dichloroethene-d2	2.568	63	163371	62.579	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	125.160%#
21) 2-Butanone-d5	4.636	46	159010	104.828	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.830%
24) Chloroform-d	5.063	84	148184	50.208	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.420%
26) 1,2-Dichloroethane-d4	5.700	65	104636	54.723	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	109.440%
32) Benzene-d6	5.726	84	277567	49.956	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.920%
36) 1,2-Dichloropropane-d6	6.690	67	96813	51.831	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.660%
41) Toluene-d8	7.896	98	249007	50.817	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.640%
43) trans-1,3-Dichloroprop...	8.179	79	38413	43.714	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.420%
47) 2-Hexanone-d5	8.632	63	97803	100.046	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.050%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	163821	52.512	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.020%
66) 1,2-Dichlorobenzene-d4	12.192	152	117997	54.322	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.640%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	4472662	2258.560	ug/L	99
8) Chloroethane	1.919	64	124958	112.976	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.562	101	1253	0.792	ug/L #	19
12) 1,1-Dichloroethene	2.575	96	124563	89.943	ug/L	87
13) Acetone	2.626	43	6871	5.756	ug/L	91
16) Methylene chloride	3.041	84	16810	9.321	ug/L	96
17) trans-1,2-Dichloroethene	3.350	96	274618	180.344	ug/L	99
19) 1,1-Dichloroethane	3.867	63	16563810	5049.217	ug/L	99
20) cis-1,2-Dichloroethene	4.665	96	14857484	8019.901	ug/L	98
27) 1,2-Dichloroethane	5.793	62	81079	29.133	ug/L	100
29) Cyclohexane	5.382	56	3000	1.196	ug/L #	46
30) 1,1,1-Trichloroethane	5.314	97	457125	146.288	ug/L	98
31) Carbon tetrachloride	5.317	117	58279	21.325	ug/L	99
33) Benzene	5.771	78	90307	12.440	ug/L	100
34) Trichloroethene	6.539	95	684984	374.340	ug/L	99
39) cis-1,3-Dichloropropene	7.565	75	2351	0.781	ug/L #	39
42) Toluene	7.967	91	149308	19.899	ug/L	99
45) 1,1,2-Trichloroethane	8.398	97	38859	19.590	ug/L	99
46) Tetrachloroethene	8.552	164	20589	14.513	ug/L	95

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

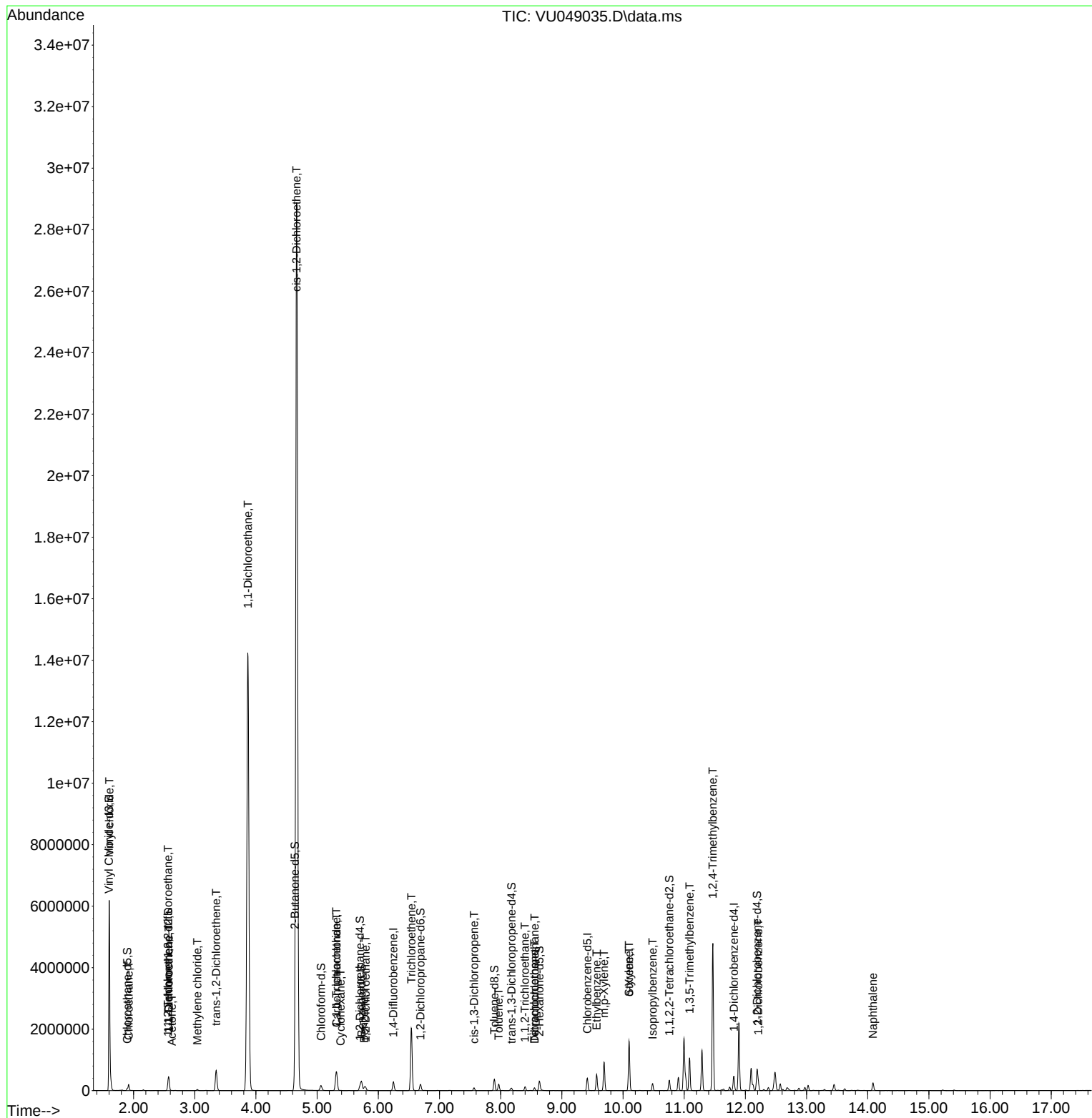
49) Dibromochloromethane	8.555	129	19825	8.976	ug/L #	11
52) Ethylbenzene	9.568	91	360033	44.132	ug/L	98
53) m,p-Xylene	9.690	106	265955	83.016	ug/L	98
54) o-Xylene	10.099	106	431225	133.599	ug/L	96
55) Styrene	10.099	104	22500	4.174	ug/L #	1
61) Isopropylbenzene	10.484	105	144522	17.043	ug/L	99
62) 1,3,5-Trimethylbenzene	11.089	105	569332	78.639	ug/L	99
63) 1,2,4-Trimethylbenzene	11.468	105	2599566	451.004	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	79807	18.487	ug/L	100
71) Naphthalene	14.086	128	212266	23.876	ug/L	100

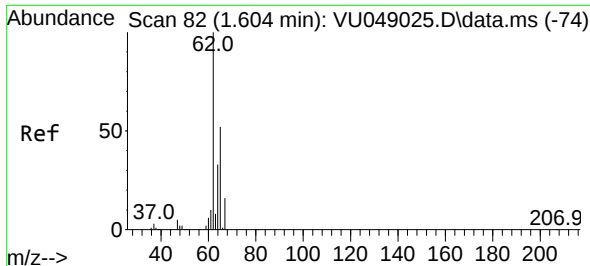
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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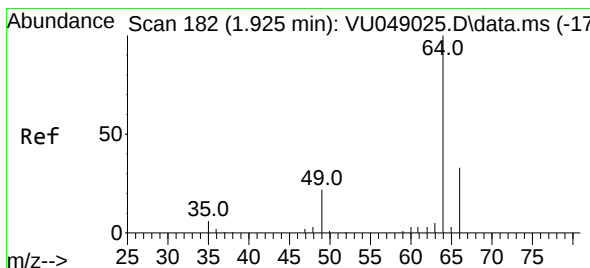
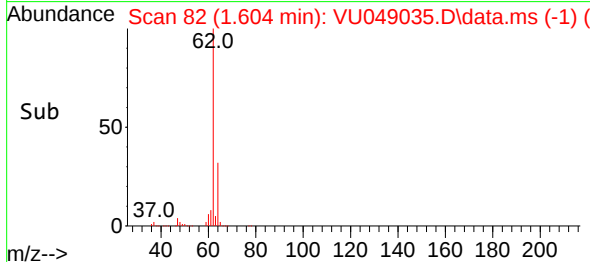
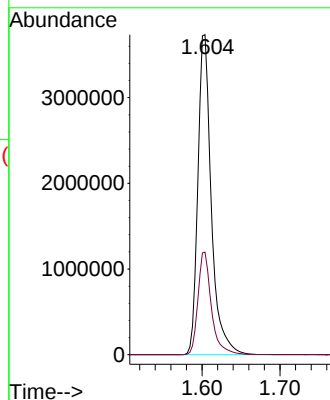
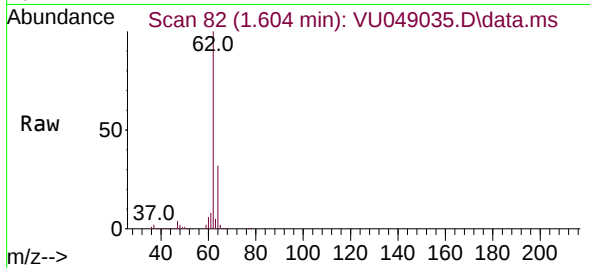




#5
 Vinyl chloride
 Concen: 2258.560 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU049035.D
 Acq: 11 Jun 2022 06:46

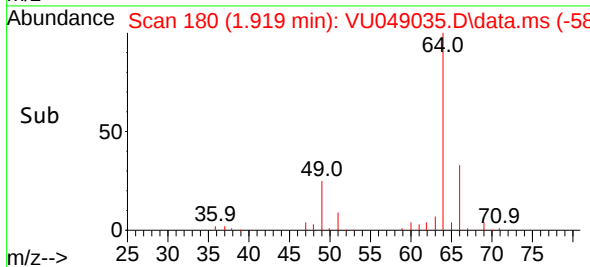
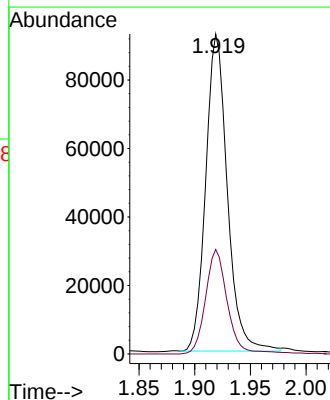
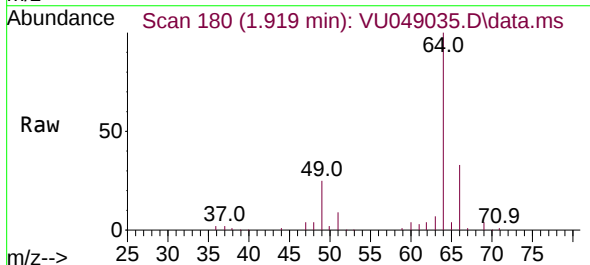
Instrument :
 MSVOA_U
 ClientSampleId :
 EXYX5

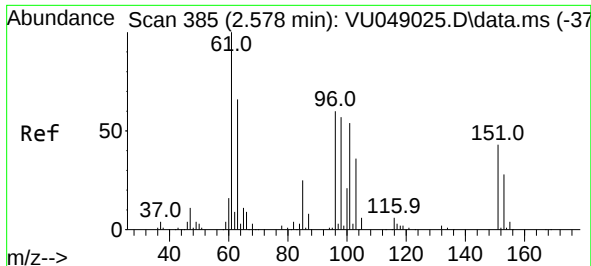
Tgt Ion: 62 Resp: 4472662
 Ion Ratio Lower Upper
 62 100
 64 32.1 22.7 42.3



#8
 Chloroethane
 Concen: 112.976 ug/L
 RT: 1.919 min Scan# 180
 Delta R.T. -0.006 min
 Lab File: VU049035.D
 Acq: 11 Jun 2022 06:46

Tgt Ion: 64 Resp: 124958
 Ion Ratio Lower Upper
 64 100
 66 32.6 23.7 43.9

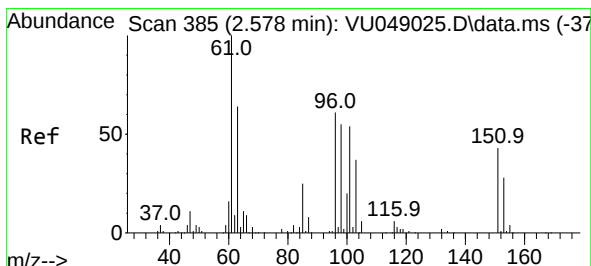
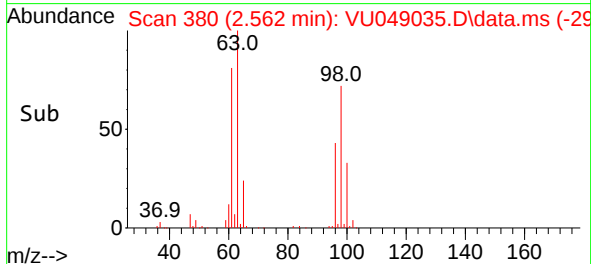
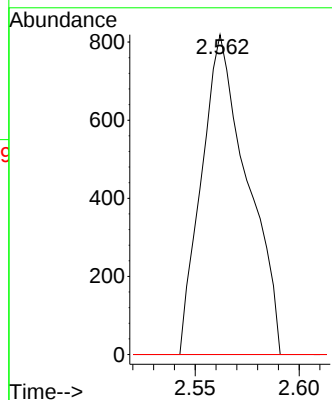
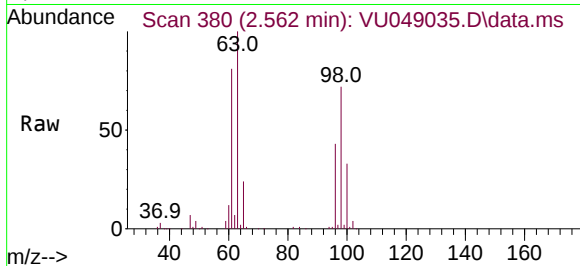




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.792 ug/L
 RT: 2.562 min Scan# 385
 Delta R.T. -0.016 min
 Lab File: VU049035.D
 Acq: 11 Jun 2022 06:46

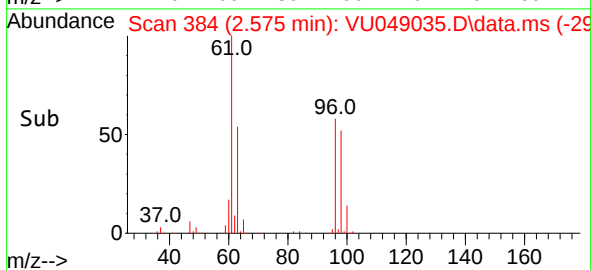
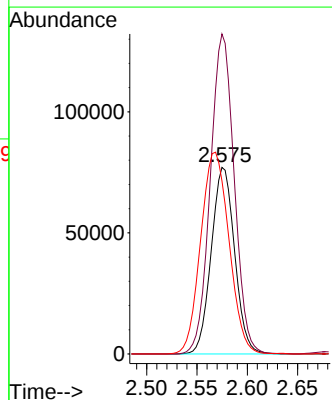
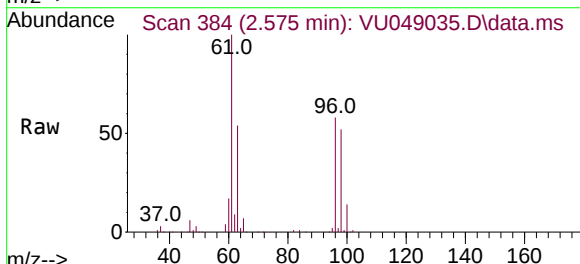
Instrument :
 MSVOA_U
 ClientSampleId :
 EXYX5

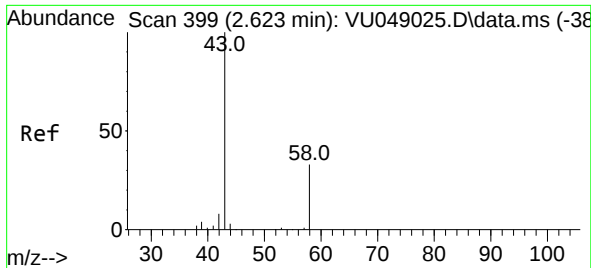
Tgt Ion:101 Resp: 1253
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.2 52.8#
 151 0.0 61.4 92.2#



#12
 1,1-Dichloroethene
 Concen: 89.943 ug/L
 RT: 2.575 min Scan# 384
 Delta R.T. -0.003 min
 Lab File: VU049035.D
 Acq: 11 Jun 2022 06:46

Tgt Ion: 96 Resp: 124563
 Ion Ratio Lower Upper
 96 100
 61 171.5 123.5 229.3
 63 92.8 86.0 159.8





#13

Acetone

Concen: 5.756 ug/L

RT: 2.626 min Scan# 40

Delta R.T. 0.003 min

Lab File: VU049035.D

Acq: 11 Jun 2022 06:46

Instrument :

MSVOA_U

ClientSampleId :

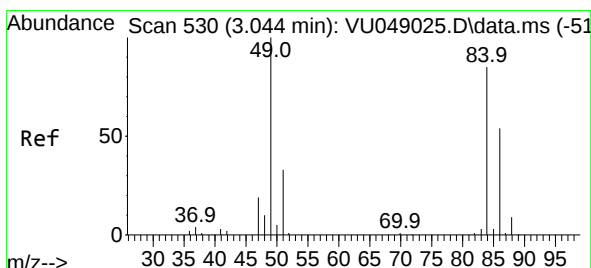
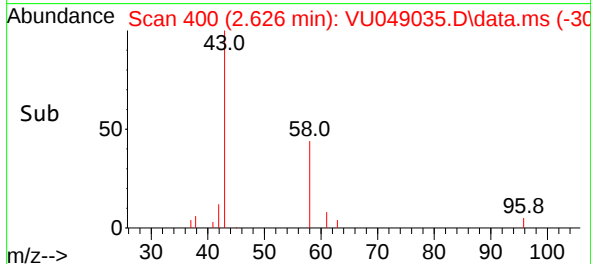
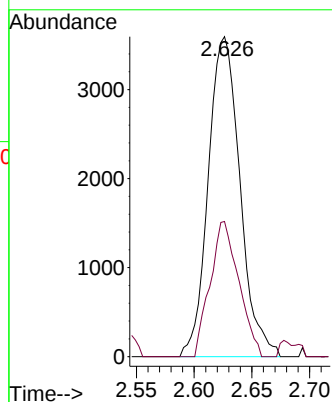
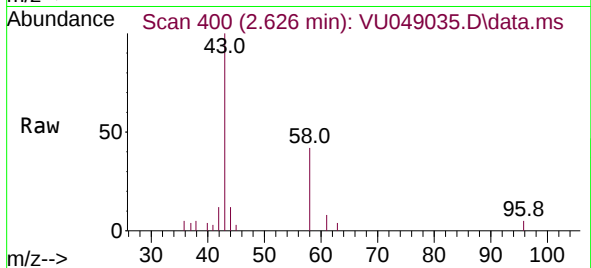
EXYX5

Tgt Ion: 43 Resp: 6871

Ion Ratio Lower Upper

43 100

58 38.1 0.0 66.4



#16

Methylene chloride

Concen: 9.321 ug/L

RT: 3.041 min Scan# 529

Delta R.T. -0.003 min

Lab File: VU049035.D

Acq: 11 Jun 2022 06:46

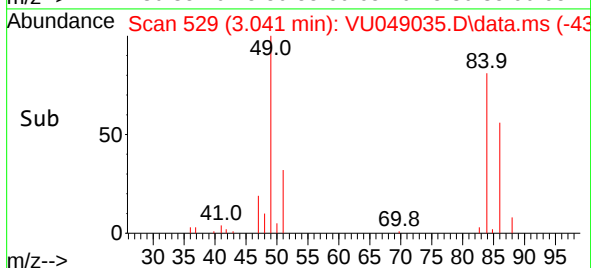
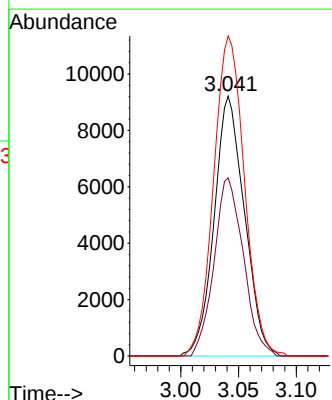
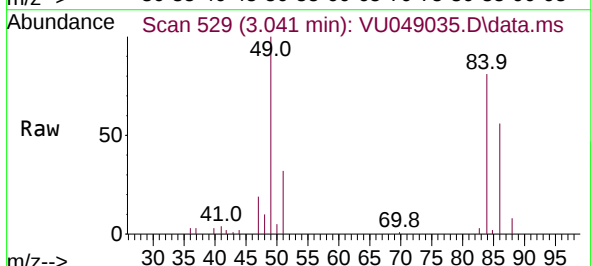
Tgt Ion: 84 Resp: 16810

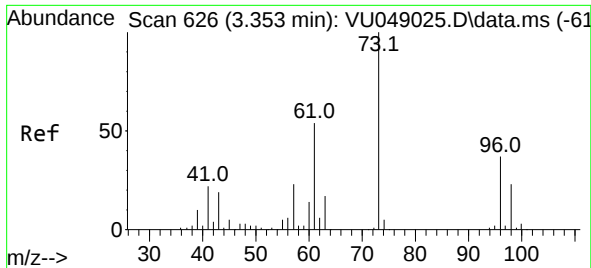
Ion Ratio Lower Upper

84 100

86 68.5 45.8 85.0

49 123.1 83.4 155.0

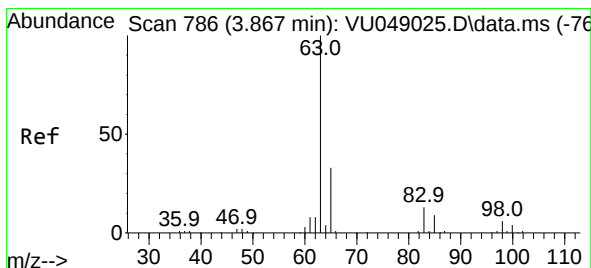
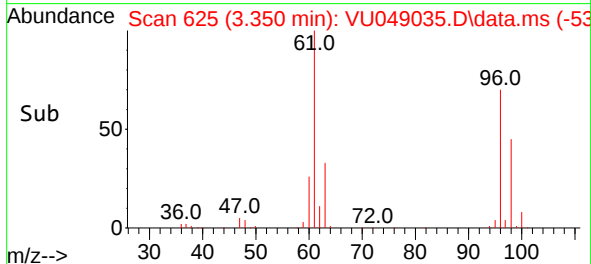
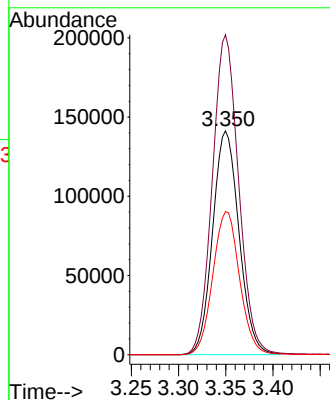
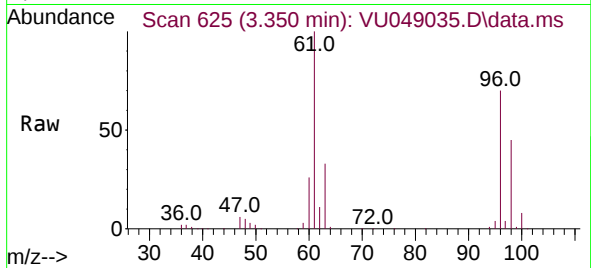




#17
trans-1,2-Dichloroethene
Concen: 180.344 ug/L
RT: 3.350 min Scan# 61
Delta R.T. -0.003 min
Lab File: VU049035.D
Acq: 11 Jun 2022 06:46

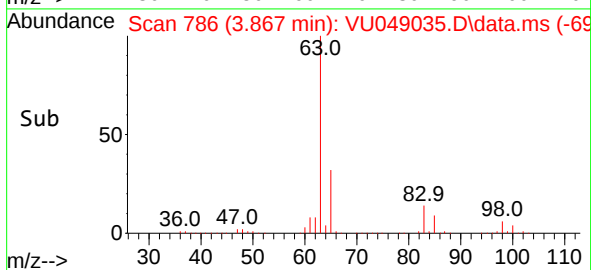
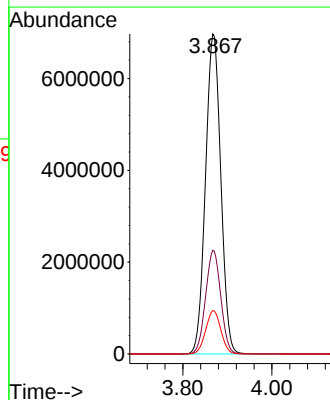
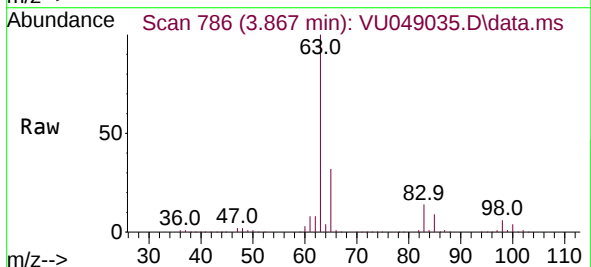
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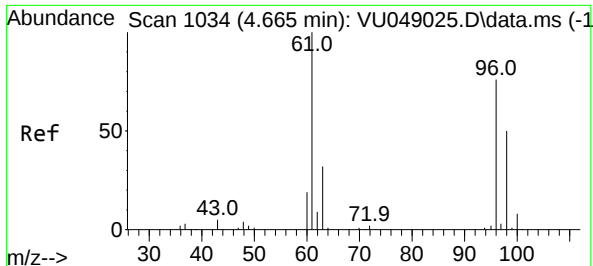
Tgt Ion: 96 Resp: 274618
Ion Ratio Lower Upper
96 100
61 142.9 99.3 184.3
98 63.9 44.7 83.1



#19
1,1-Dichloroethane
Concen: 5049.217 ug/L
RT: 3.867 min Scan# 786
Delta R.T. 0.000 min
Lab File: VU049035.D
Acq: 11 Jun 2022 06:46

Tgt Ion: 63 Resp:16563810
Ion Ratio Lower Upper
63 100
65 32.4 22.3 41.5
83 13.5 9.5 17.7



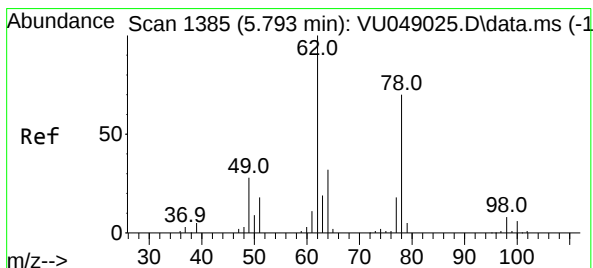
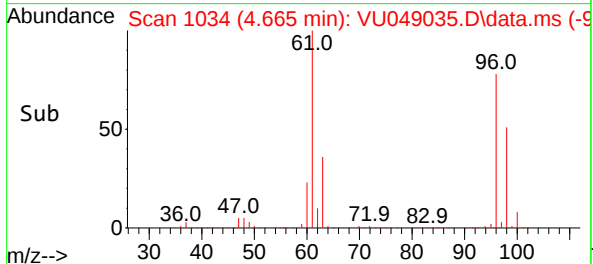
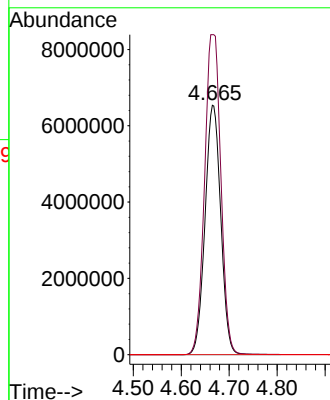
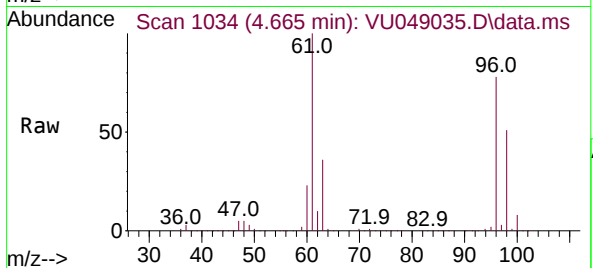


#20
 cis-1,2-Dichloroethene
 Concen: 8019.901 ug/L
 RT: 4.665 min Scan# 1034
 Delta R.T. 0.000 min
 Lab File: VU049035.D
 Acq: 11 Jun 2022 06:46

Instrument :
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Tgt Ion: 96 Resp:14857484

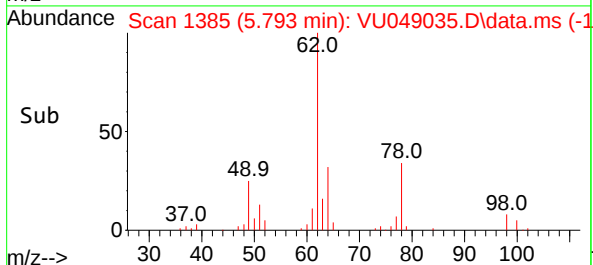
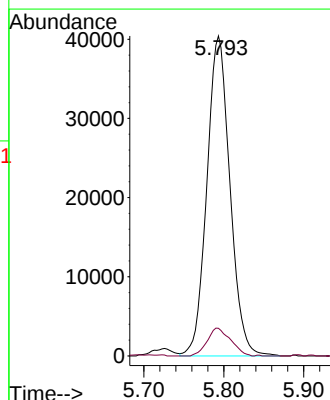
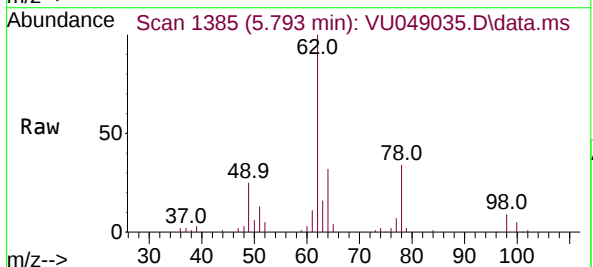
Ion	Ratio	Lower	Upper
96	100		
61	128.3	91.6	170.2
68	0.0	0.0	0.0

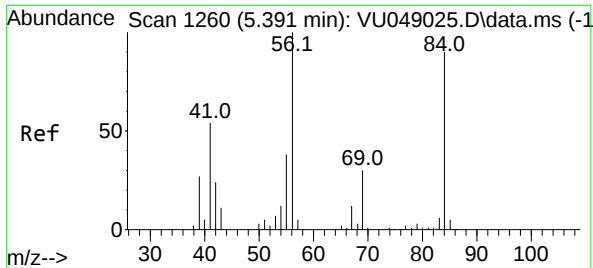


#27
 1,2-Dichloroethane
 Concen: 29.133 ug/L
 RT: 5.793 min Scan# 1385
 Delta R.T. 0.000 min
 Lab File: VU049035.D
 Acq: 11 Jun 2022 06:46

Tgt Ion: 62 Resp: 81079

Ion	Ratio	Lower	Upper
62	100		
98	8.7	7.0	10.4





#29

Cyclohexane

Concen: 1.196 ug/L

RT: 5.382 min Scan# 1257

Delta R.T. -0.010 min

Lab File: VU049035.D

Acq: 11 Jun 2022 06:46

Instrument :

MSVOA_U

ClientSampleId :

EXYX5

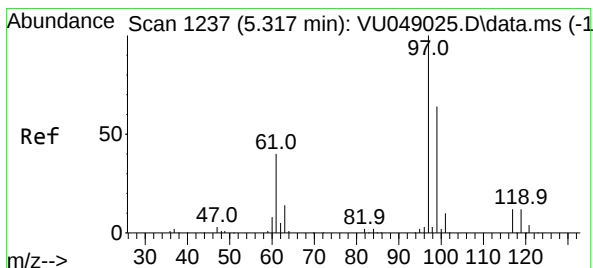
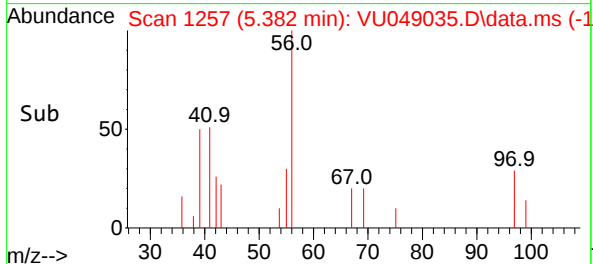
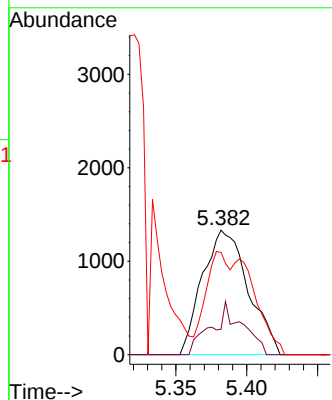
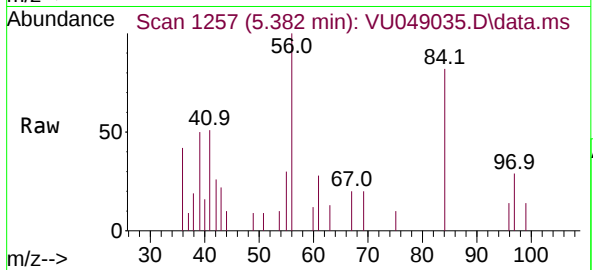
Tgt Ion: 56 Resp: 3000

Ion Ratio Lower Upper

56 100

69 7.5 24.6 36.8#

84 32.8 69.7 104.5#



#30

1,1,1-Trichloroethane

Concen: 146.288 ug/L

RT: 5.314 min Scan# 1236

Delta R.T. -0.003 min

Lab File: VU049035.D

Acq: 11 Jun 2022 06:46

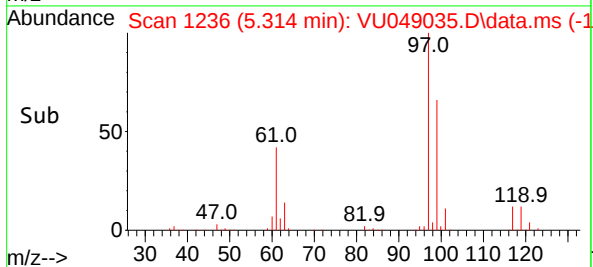
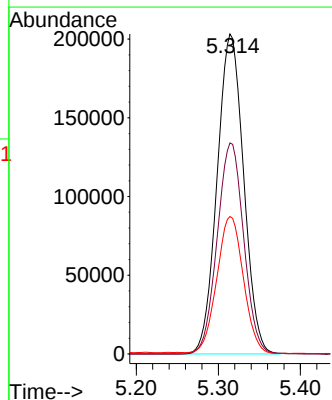
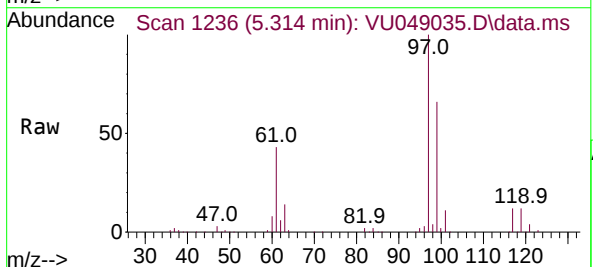
Tgt Ion: 97 Resp: 457125

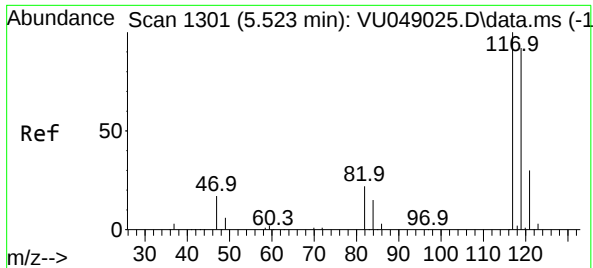
Ion Ratio Lower Upper

97 100

99 65.9 50.9 76.3

61 42.9 34.2 51.2

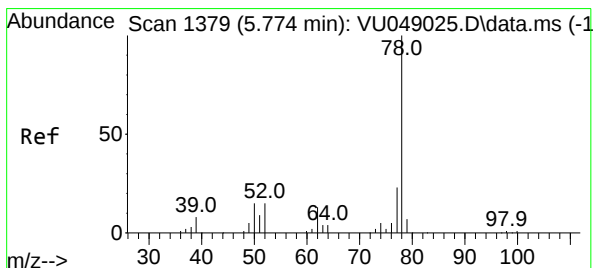
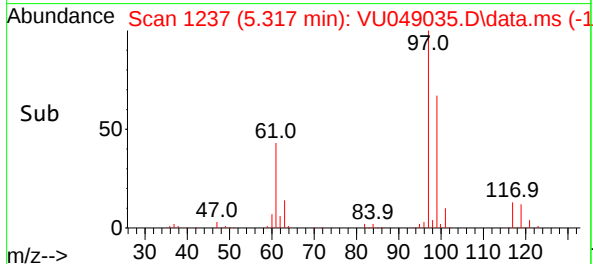
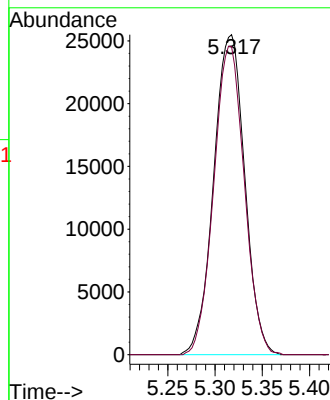
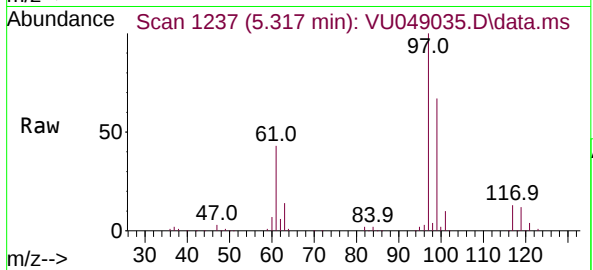




#31
Carbon tetrachloride
Concen: 21.325 ug/L
RT: 5.317 min Scan# 117
Delta R.T. -0.206 min
Lab File: VU049035.D
Acq: 11 Jun 2022 06:46

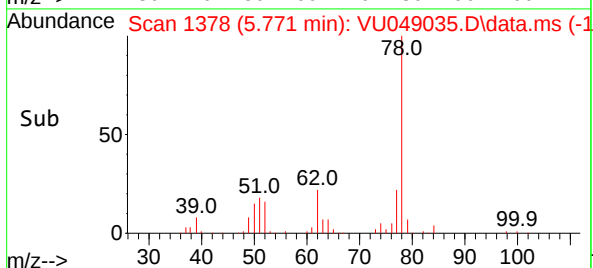
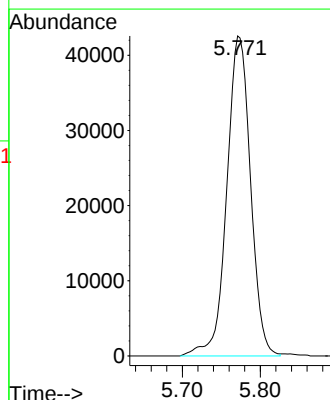
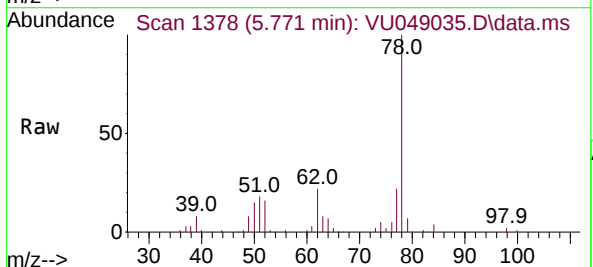
Instrument :
MSVOA_U
ClientSampleId :
EXYX5

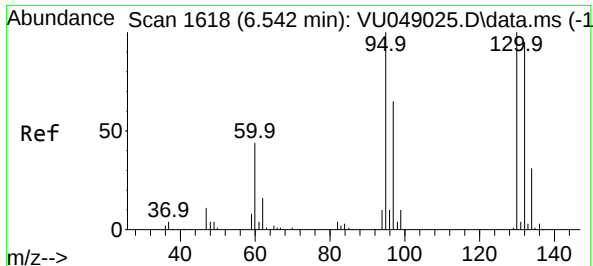
Tgt Ion:117 Resp: 58279
Ion Ratio Lower Upper
117 100
119 94.8 76.5 114.7



#33
Benzene
Concen: 12.440 ug/L
RT: 5.771 min Scan# 1378
Delta R.T. -0.003 min
Lab File: VU049035.D
Acq: 11 Jun 2022 06:46

Tgt Ion: 78 Resp: 90307

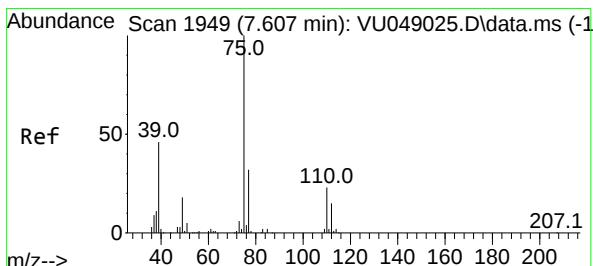
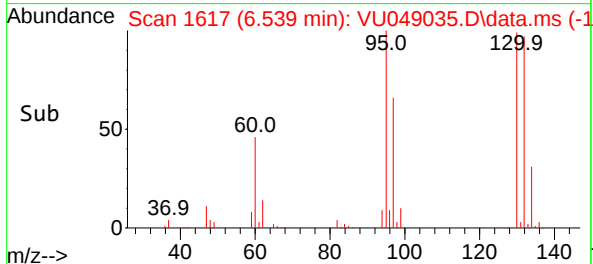
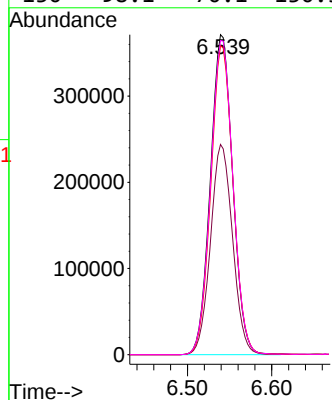
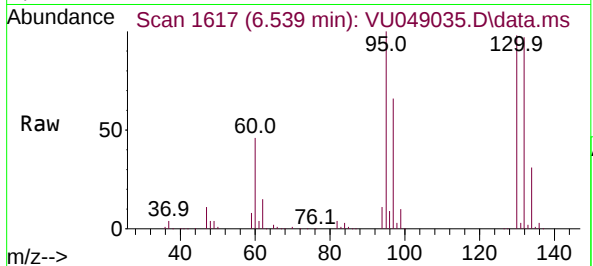




#34
Trichloroethene
Concen: 374.340 ug/L
RT: 6.539 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU049035.D
Acq: 11 Jun 2022 06:46

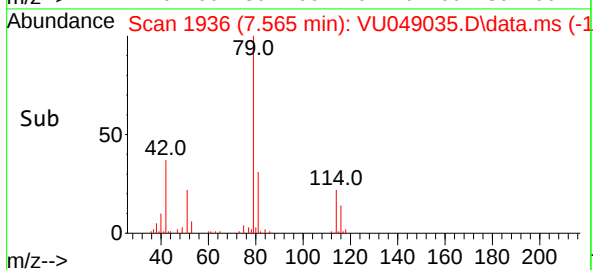
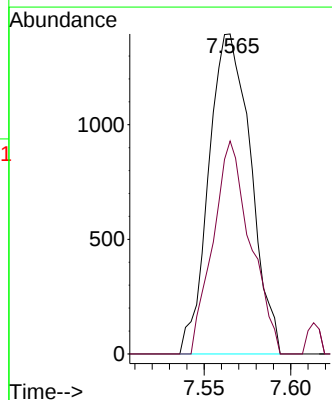
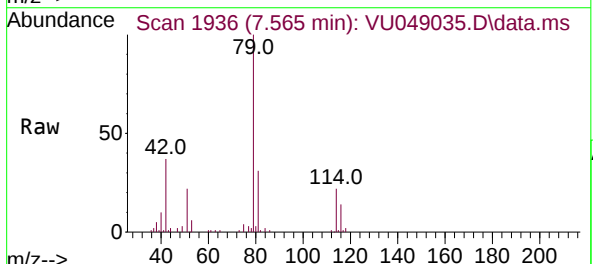
Instrument :
MSVOA_U
ClientSampleId :
EXYX5

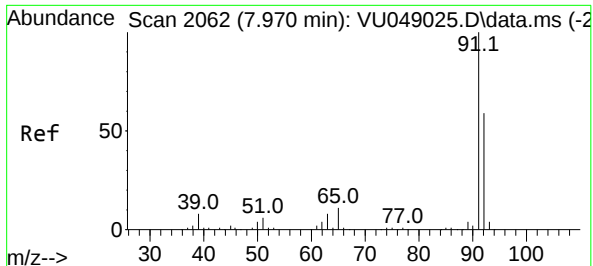
Tgt Ion: 95 Resp: 684984
Ion Ratio Lower Upper
95 100
97 65.7 45.4 84.4
132 96.5 67.6 125.6
130 98.1 70.1 130.3



#39
cis-1,3-Dichloropropene
Concen: 0.781 ug/L
RT: 7.565 min Scan# 1936
Delta R.T. -0.042 min
Lab File: VU049035.D
Acq: 11 Jun 2022 06:46

Tgt Ion: 75 Resp: 2351
Ion Ratio Lower Upper
75 100
77 66.5 22.6 42.0#

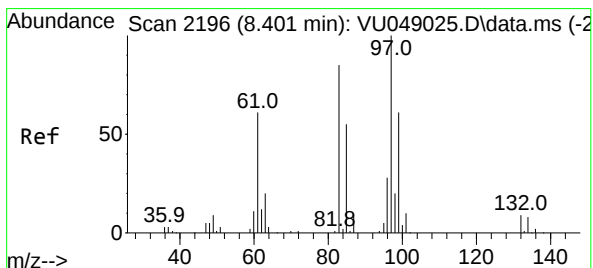
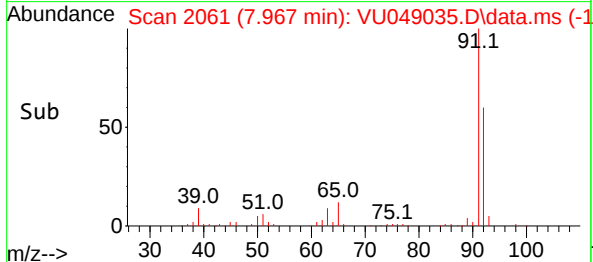
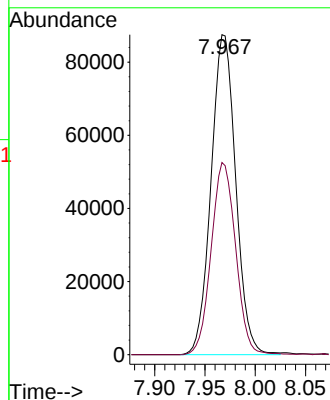
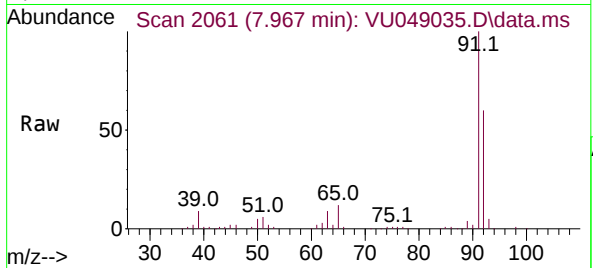




#42
Toluene
Concen: 19.899 ug/L
RT: 7.967 min Scan# 2062
Delta R.T. -0.003 min
Lab File: VU049035.D
Acq: 11 Jun 2022 06:46

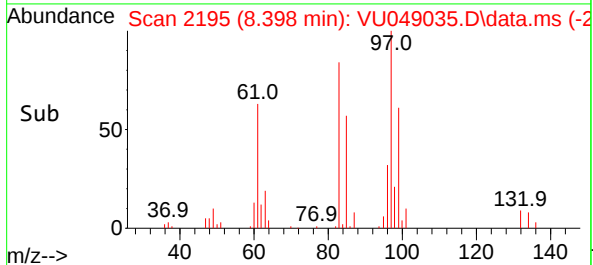
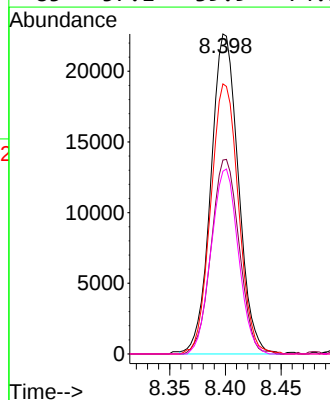
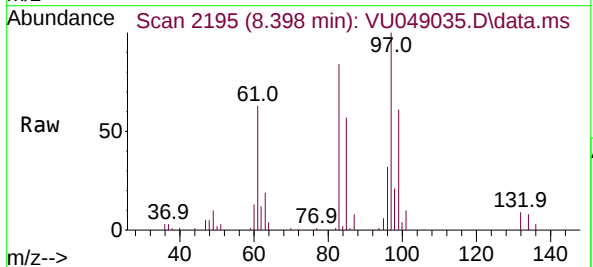
Instrument :
MSVOA_U
ClientSampleId :
EXYX5

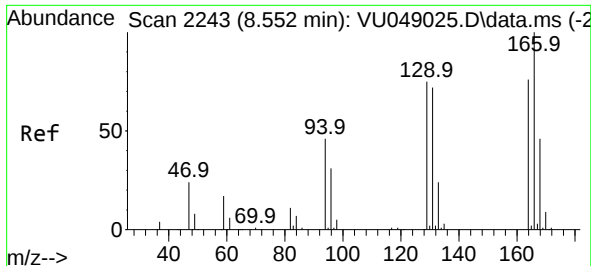
Tgt Ion: 91 Resp: 149308
Ion Ratio Lower Upper
91 100
92 60.0 41.6 77.3



#45
1,1,2-Trichloroethane
Concen: 19.590 ug/L
RT: 8.398 min Scan# 2195
Delta R.T. -0.003 min
Lab File: VU049035.D
Acq: 11 Jun 2022 06:46

Tgt Ion: 97 Resp: 38859
Ion Ratio Lower Upper
97 100
99 60.6 43.5 80.9
83 84.4 60.3 112.1
85 57.1 39.9 74.1

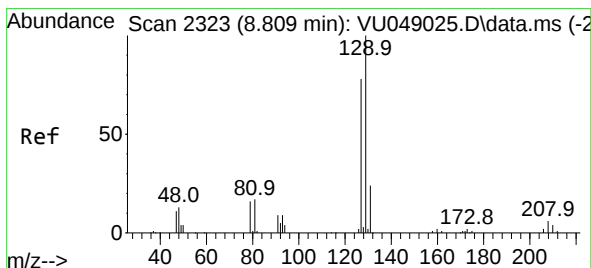
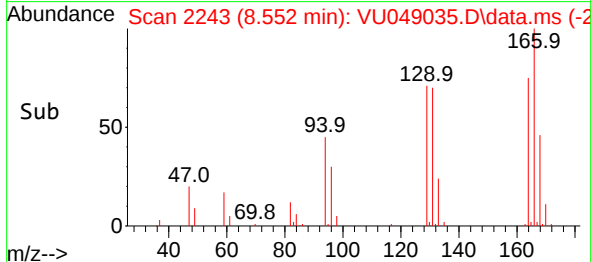
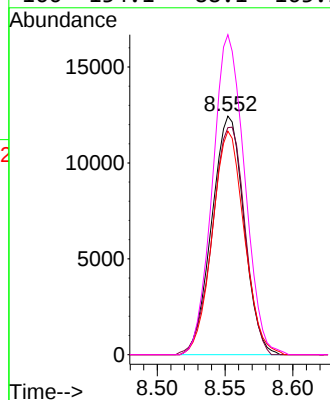
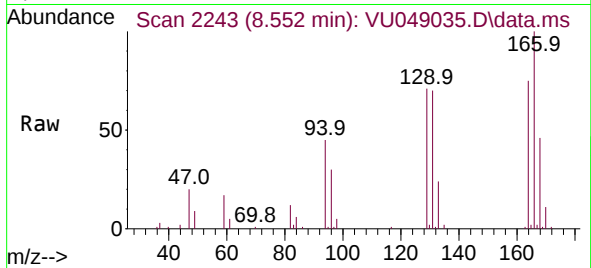




#46
Tetrachloroethene
Concen: 14.513 ug/L
RT: 8.552 min Scan# 211
Delta R.T. 0.000 min
Lab File: VU049035.D
Acq: 11 Jun 2022 06:46

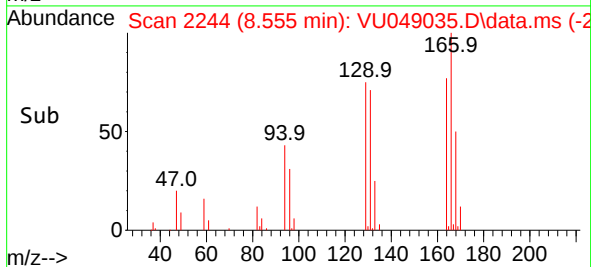
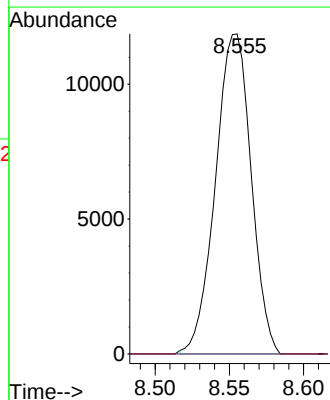
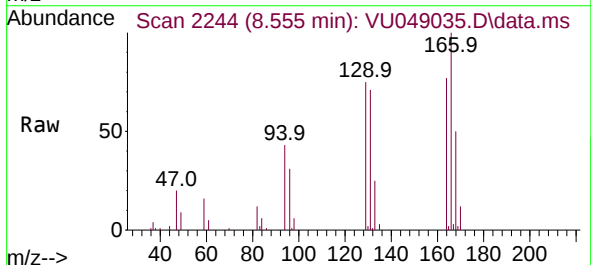
Instrument :
MSVOA_U
ClientSampleId :
EXYX5

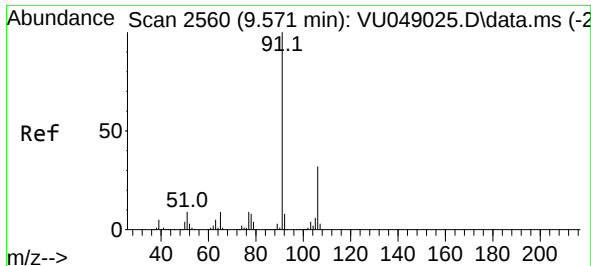
Tgt Ion:164 Resp: 20589
Ion Ratio Lower Upper
164 100
129 95.2 70.9 131.7
131 93.7 66.2 123.0
166 134.1 88.1 163.5



#49
Dibromochloromethane
Concen: 8.976 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.254 min
Lab File: VU049035.D
Acq: 11 Jun 2022 06:46

Tgt Ion:129 Resp: 19825
Ion Ratio Lower Upper
129 100
127 0.0 53.5 99.5#

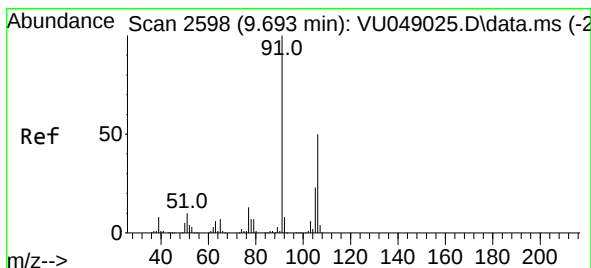
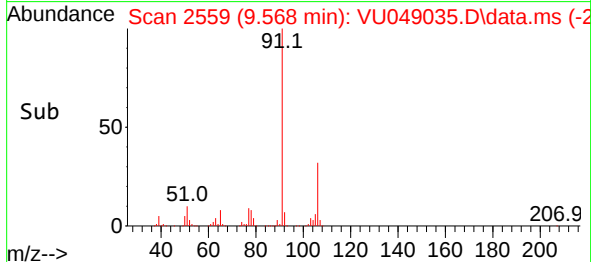
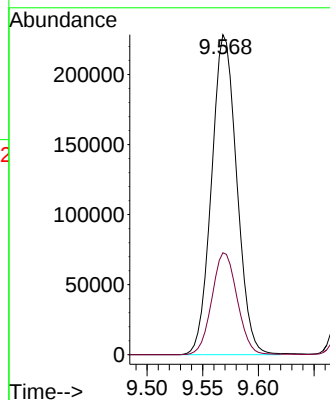
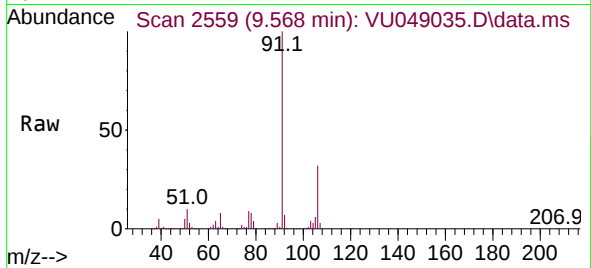




#52
Ethylbenzene
Concen: 44.132 ug/L
RT: 9.568 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU049035.D
Acq: 11 Jun 2022 06:46

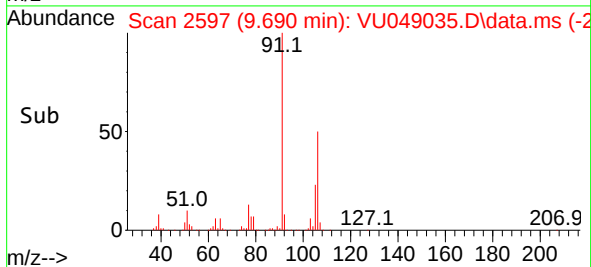
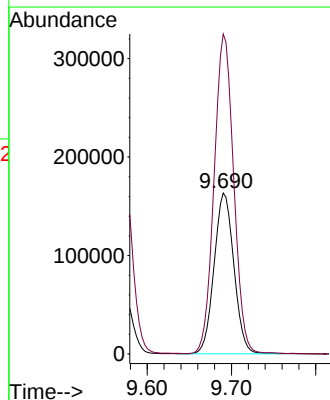
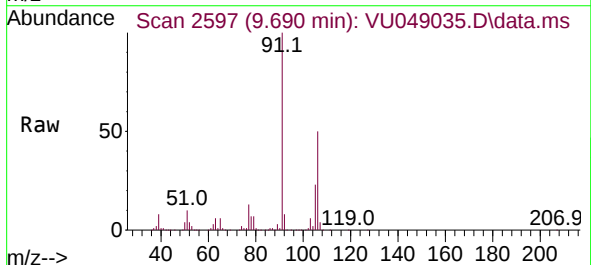
Instrument :
MSVOA_U
ClientSampleId :
EXYX5

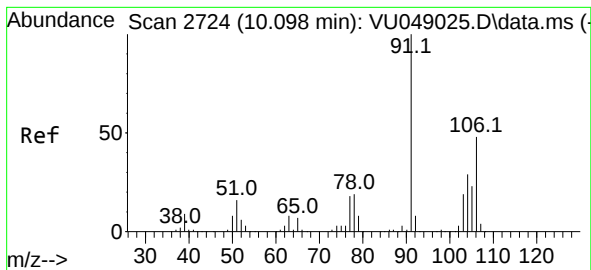
Tgt Ion: 91 Resp: 360033
Ion Ratio Lower Upper
91 100
106 31.9 21.6 40.2



#53
m,p-Xylene
Concen: 83.016 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. -0.003 min
Lab File: VU049035.D
Acq: 11 Jun 2022 06:46

Tgt Ion:106 Resp: 265955
Ion Ratio Lower Upper
106 100
91 198.7 137.4 255.2

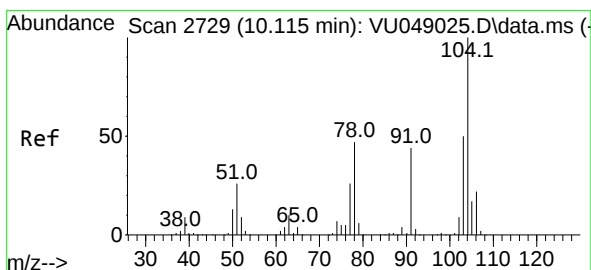
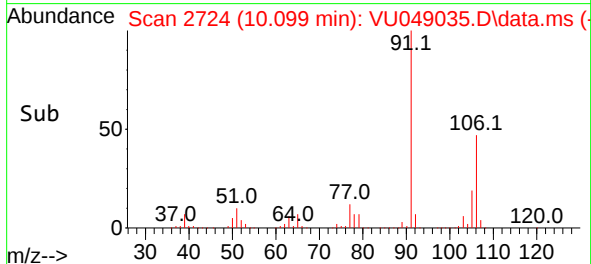
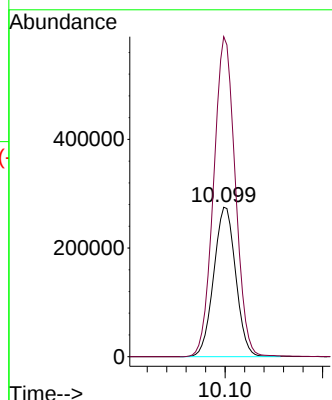
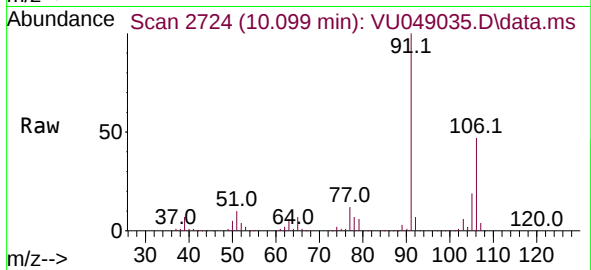




#54
o-Xylene
Concen: 133.599 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. 0.000 min
Lab File: VU049035.D
Acq: 11 Jun 2022 06:46

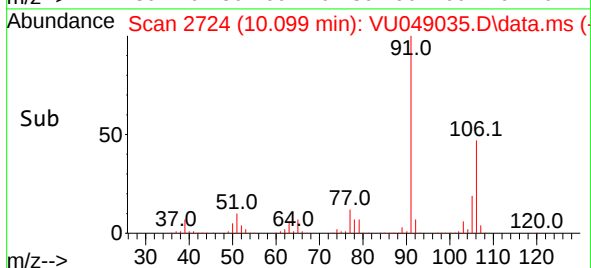
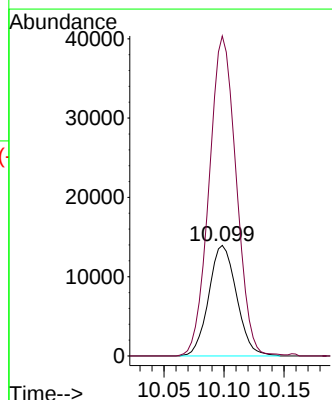
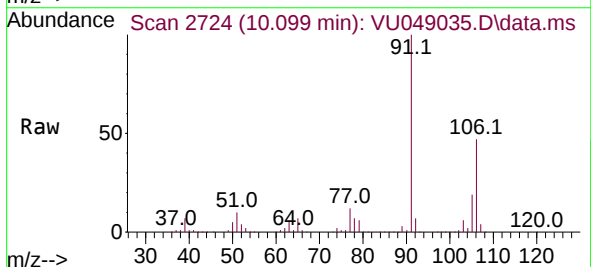
Instrument :
MSVOA_U
ClientSampleId :
EXYX5

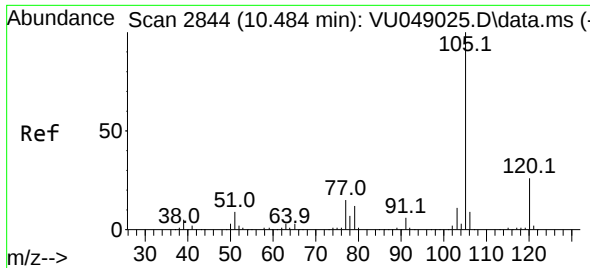
Tgt Ion:106 Resp: 431225
Ion Ratio Lower Upper
106 100
91 214.1 145.2 269.6



#55
Styrene
Concen: 4.174 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. -0.016 min
Lab File: VU049035.D
Acq: 11 Jun 2022 06:46

Tgt Ion:104 Resp: 22500
Ion Ratio Lower Upper
104 100
78 289.5 32.6 60.6#

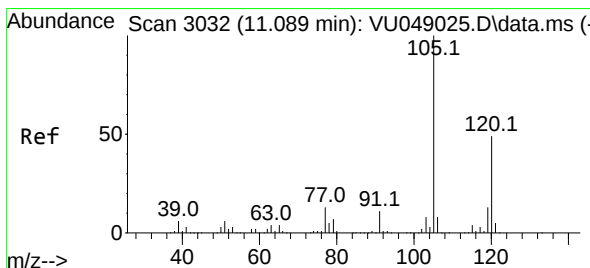
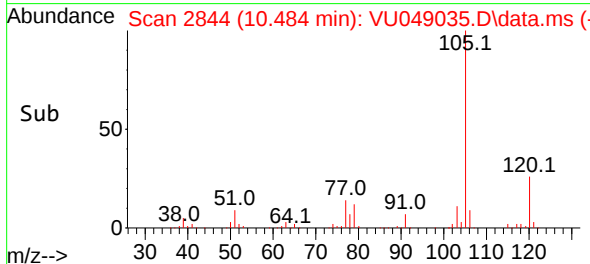
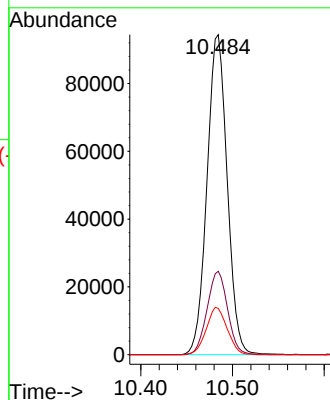
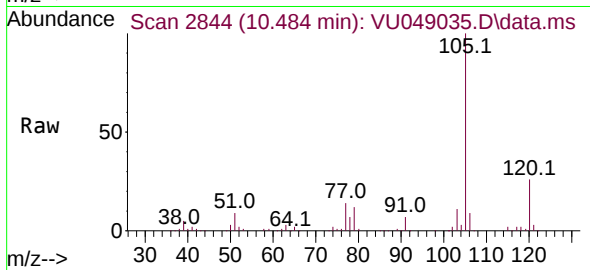




#61
Isopropylbenzene
Concen: 17.043 ug/L
RT: 10.484 min Scan# 2844
Delta R.T. 0.000 min
Lab File: VU049035.D
Acq: 11 Jun 2022 06:46

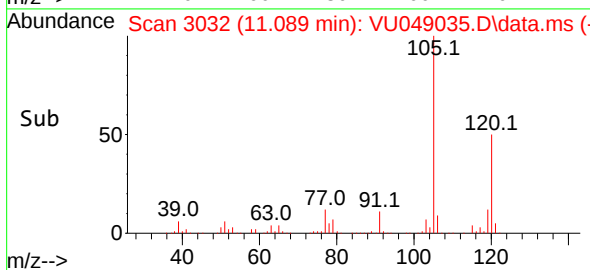
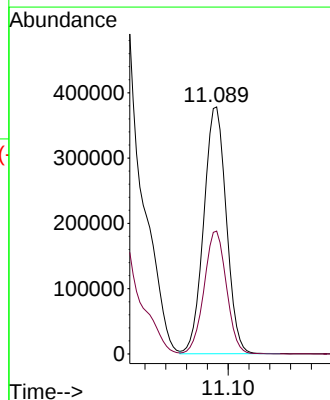
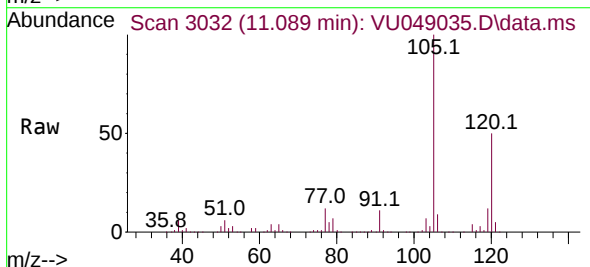
Instrument :
MSVOA_U
ClientSampleId :
EXYX5

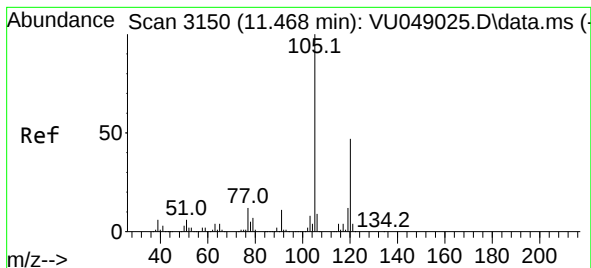
Tgt Ion:105 Resp: 144522
Ion Ratio Lower Upper
105 100
120 26.4 21.1 31.7
77 15.3 12.7 19.1



#62
1,3,5-Trimethylbenzene
Concen: 78.639 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. 0.000 min
Lab File: VU049035.D
Acq: 11 Jun 2022 06:46

Tgt Ion:105 Resp: 569332
Ion Ratio Lower Upper
105 100
120 49.3 39.1 58.7





#63

1,2,4-Trimethylbenzene

Concen: 451.004 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. 0.000 min

Lab File: VU049035.D

Acq: 11 Jun 2022 06:46

Instrument :

MSVOA_U

ClientSampleId :

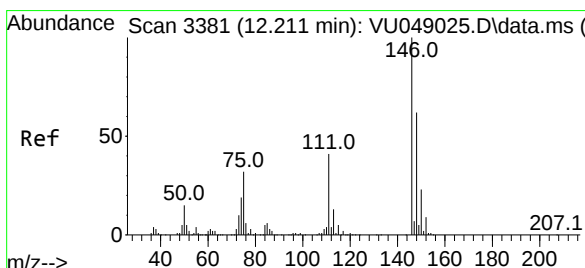
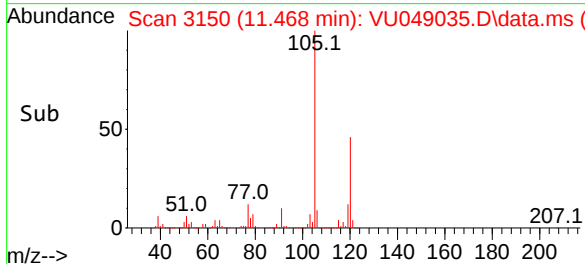
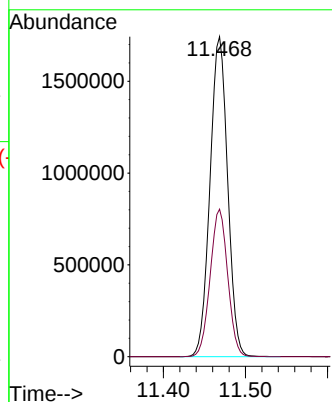
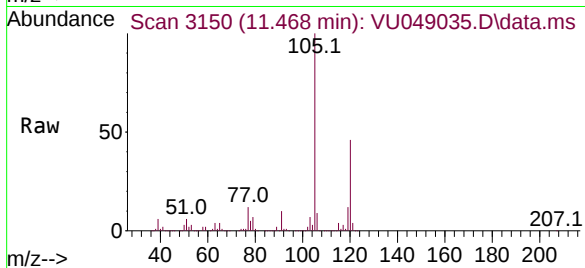
EXYX5

Tgt Ion:105 Resp: 2599566

Ion Ratio Lower Upper

105 100

120 45.9 36.3 54.5



#67

1,2-Dichlorobenzene

Concen: 18.487 ug/L

RT: 12.211 min Scan# 3381

Delta R.T. 0.000 min

Lab File: VU049035.D

Acq: 11 Jun 2022 06:46

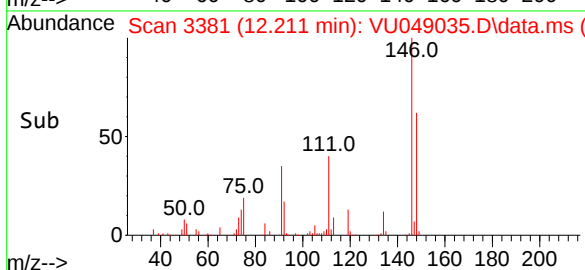
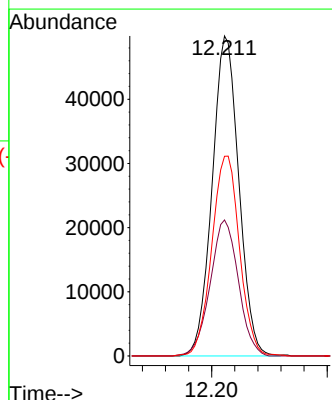
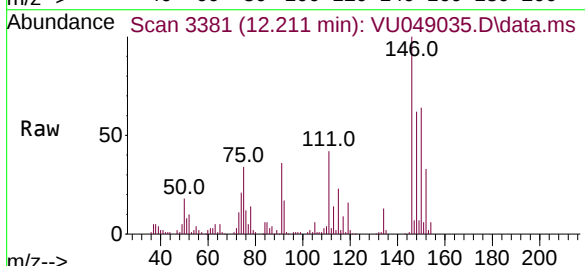
Tgt Ion:146 Resp: 79807

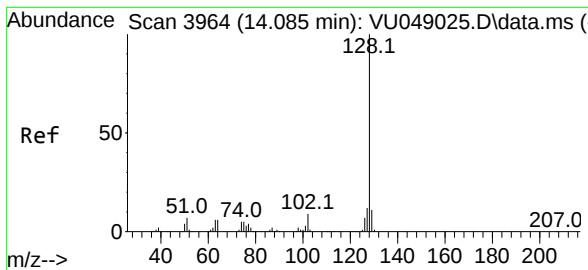
Ion Ratio Lower Upper

146 100

111 42.5 33.9 50.9

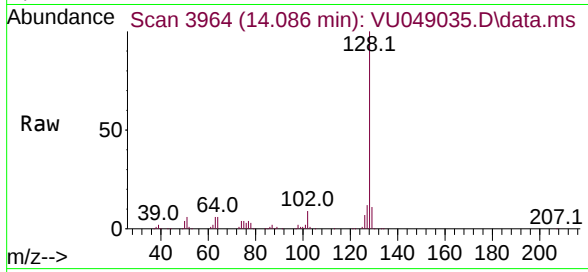
148 62.4 50.2 75.2





#71
Naphthalene
Concen: 23.876 ug/L
RT: 14.086 min Scan# 3964
Delta R.T. 0.000 min
Lab File: VU049035.D
Acq: 11 Jun 2022 06:46

Instrument :
MSVOA_U
ClientSampleId :
EXYX5



Tgt Ion:	128	Resp:	212266
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.4
129	10.7	8.6	12.8

