

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U0060922\
 Data File : U0048983.D
 Acq On : 09 Jun 2022 18:05
 Operator : SY/MD
 Sample : N3248-08
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXYX9

Quant Time: Jun 10 01:05:03 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM051622WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 10 01:01:44 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	198478	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	186139	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	85692	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	63539	52.267	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	104.540%
7) Chloroethane-d5	1.890	69	46898	51.493	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	102.980%
11) 1,1-Dichloroethene-d2	2.559	63	91563	33.304	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.600%
21) 2-Butanone-d5	4.620	46	192559	166.450	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	166.450%#
24) Chloroform-d	5.060	84	136575	44.458	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.920%
26) 1,2-Dichloroethane-d4	5.700	65	91807	42.361	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.720%
32) Benzene-d6	5.726	84	262092	50.593	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.180%
36) 1,2-Dichloropropane-d6	6.690	67	89796	59.045	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	118.080%
41) Toluene-d8	7.896	98	221056	45.366	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.740%
43) trans-1,3-Dichloroprop...	8.179	79	41603	42.780	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.560%
47) 2-Hexanone-d5	8.632	63	127642	153.043	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	153.040%#
56) 1,1,2,2-Tetrachloroeth...	10.758	84	155172	61.661	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	123.320%#
66) 1,2-Dichlorobenzene-d4	12.195	152	88804	50.693	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.380%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.601	62	93515	66.797	ug/L	100
8) Chloroethane	1.912	64	818196	992.928	ug/L	99
9) Trichlorofluoromethane	2.118	101	1463	0.535	ug/L	98
12) 1,1-Dichloroethene	2.572	96	12208	9.454	ug/L #	9
13) Acetone	2.626	43	4700	5.001	ug/L	95
15) Methyl Acetate	2.954	43	2757	1.719	ug/L #	81
17) trans-1,2-Dichloroethene	3.350	96	7991	5.737	ug/L	97
19) 1,1-Dichloroethane	3.864	63	986309	386.800	ug/L	98
20) cis-1,2-Dichloroethene	4.665	96	492135	313.319	ug/L	99
27) 1,2-Dichloroethane	5.793	62	4044	1.584	ug/L #	94
30) 1,1,1-Trichloroethane	5.314	97	1084222	384.693	ug/L	99
33) Benzene	5.771	78	6202	1.140	ug/L	100
34) Trichloroethene	6.543	95	11333	7.366	ug/L	93
35) Methylcyclohexane	6.761	83	2141	0.970	ug/L	95
42) Toluene	7.970	91	147464	24.879	ug/L	99
46) Tetrachloroethene	8.552	164	20203	16.092	ug/L	97
52) Ethylbenzene	9.571	91	54385	8.029	ug/L	100
53) m,p-Xylene	9.694	106	44666	16.408	ug/L	97
54) o-Xylene	10.099	106	26882	10.308	ug/L	98

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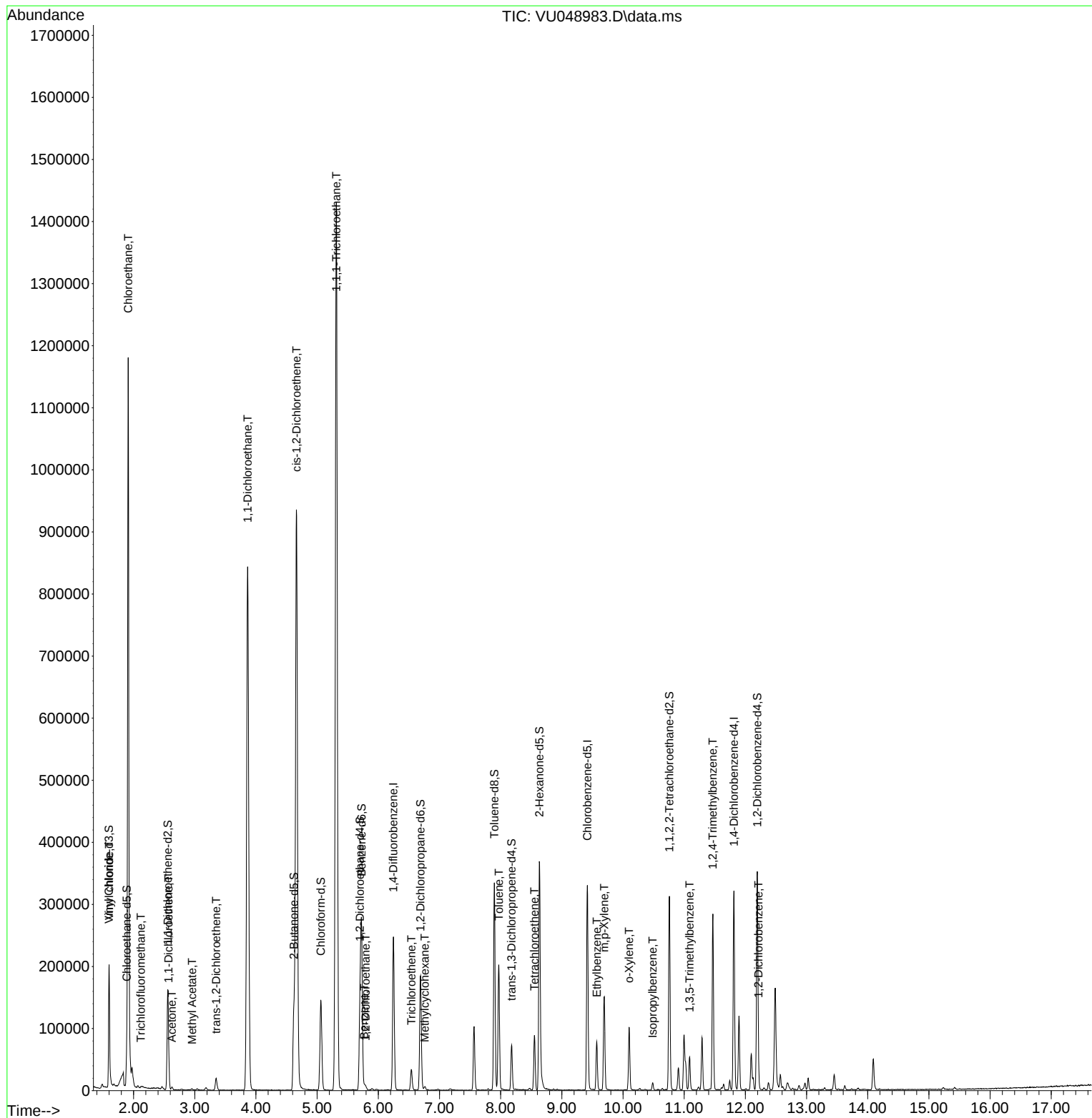
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) Isopropylbenzene	10.484	105	8173	1.549	ug/L	96
62) 1,3,5-Trimethylbenzene	11.089	105	29158	9.718	ug/L	100
63) 1,2,4-Trimethylbenzene	11.468	105	155698	33.373	ug/L	100
67) 1,2-Dichlorobenzene	12.214	146	5499	1.987	ug/L	90

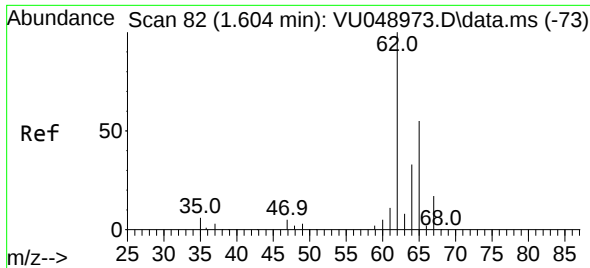
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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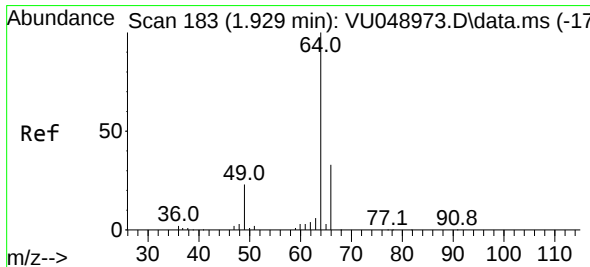
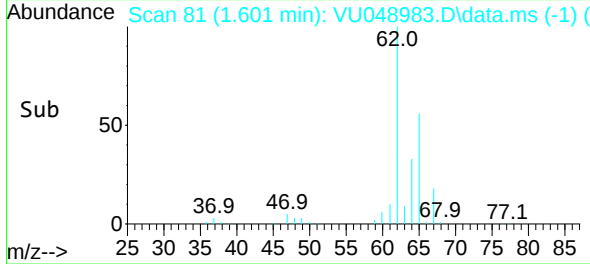
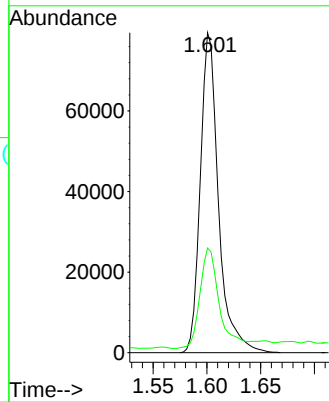
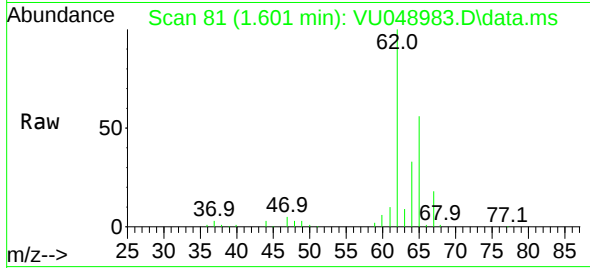




#5
 Vinyl chloride
 Concen: 66.797 ug/L
 RT: 1.601 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VU048983.D
 Acq: 09 Jun 2022 18:05

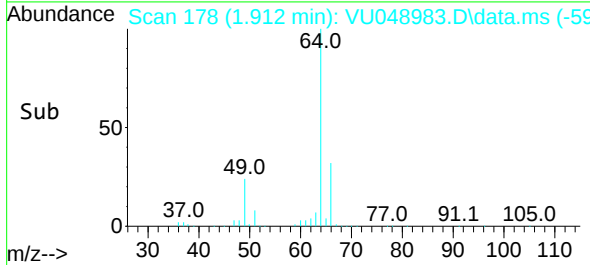
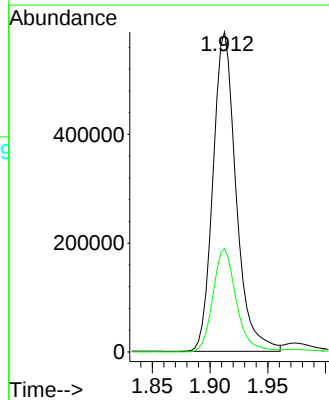
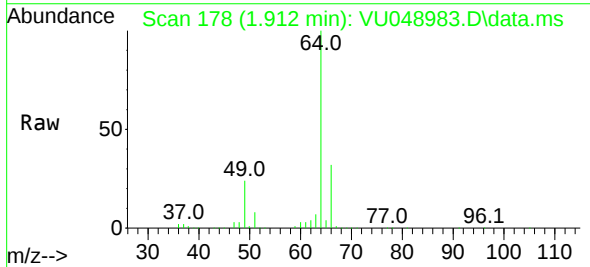
Instrument :
 MSVOA_U
 ClientSampleId :
 EXYX9

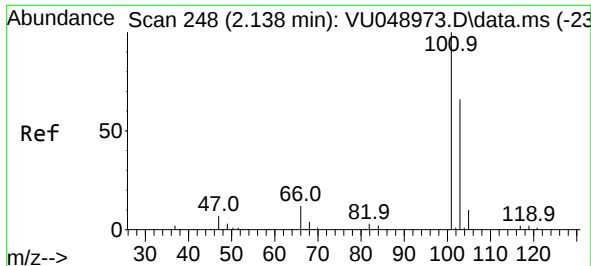
Tgt Ion: 62 Resp: 93515
 Ion Ratio Lower Upper
 62 100
 64 32.7 22.9 42.5



#8
 Chloroethane
 Concen: 992.928 ug/L
 RT: 1.912 min Scan# 178
 Delta R.T. -0.016 min
 Lab File: VU048983.D
 Acq: 09 Jun 2022 18:05

Tgt Ion: 64 Resp: 818196
 Ion Ratio Lower Upper
 64 100
 66 32.4 23.1 42.9

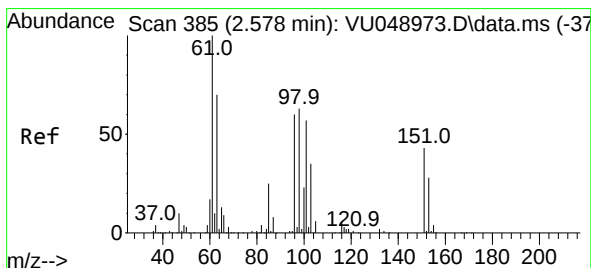
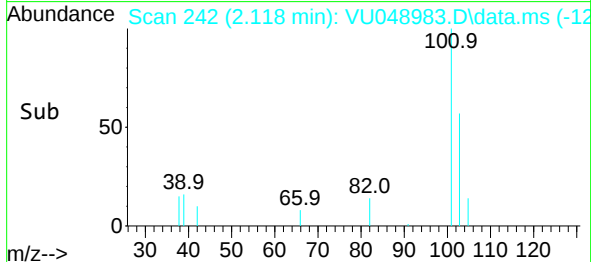
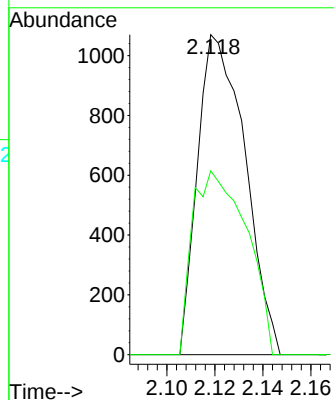
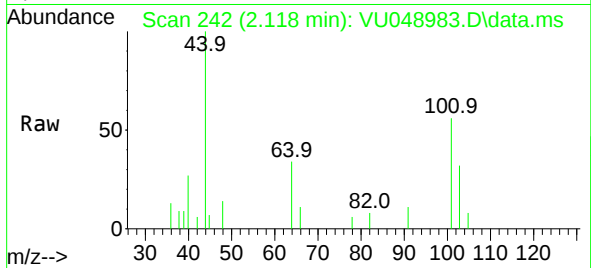




#9
 Trichlorofluoromethane
 Concen: 0.535 ug/L
 RT: 2.118 min Scan# 248
 Delta R.T. -0.019 min
 Lab File: VU048983.D
 Acq: 09 Jun 2022 18:05

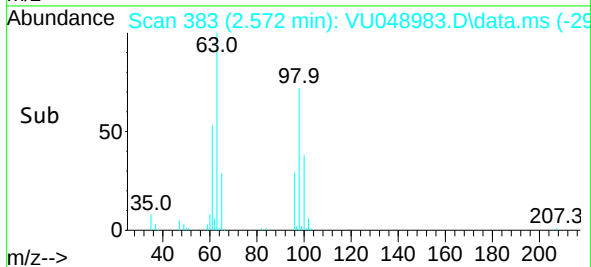
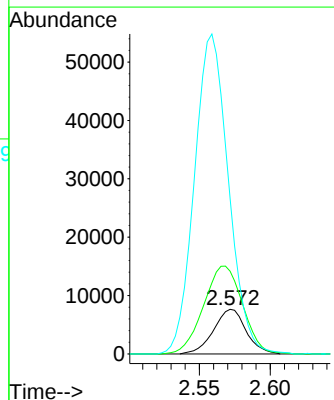
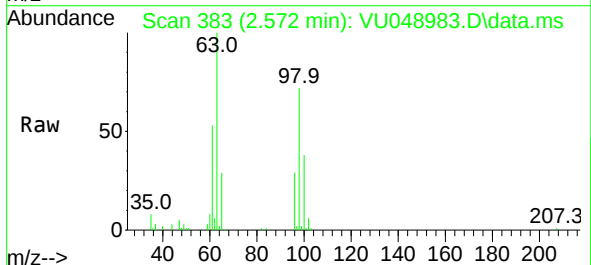
Instrument :
 MSVOA_U
 ClientSampleId :
 EXYX9

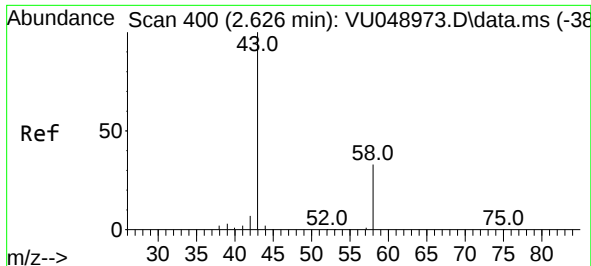
Tgt Ion:101 Resp: 1463
 Ion Ratio Lower Upper
 101 100
 103 65.9 51.6 77.4



#12
 1,1-Dichloroethene
 Concen: 9.454 ug/L
 RT: 2.572 min Scan# 383
 Delta R.T. -0.006 min
 Lab File: VU048983.D
 Acq: 09 Jun 2022 18:05

Tgt Ion: 96 Resp: 12208
 Ion Ratio Lower Upper
 96 100
 61 185.5 120.6 224.0
 63 348.3 82.3 152.9#





#13

Acetone

Concen: 5.001 ug/L

RT: 2.626 min Scan# 400

Delta R.T. 0.000 min

Lab File: VU048983.D

Acq: 09 Jun 2022 18:05

Instrument :

MSVOA_U

ClientSampleId :

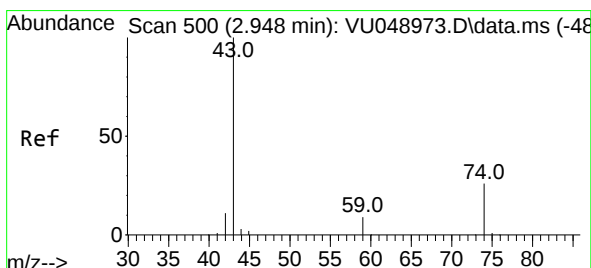
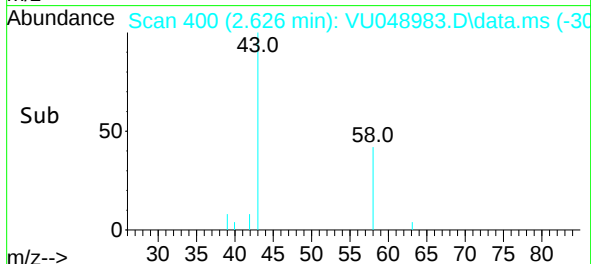
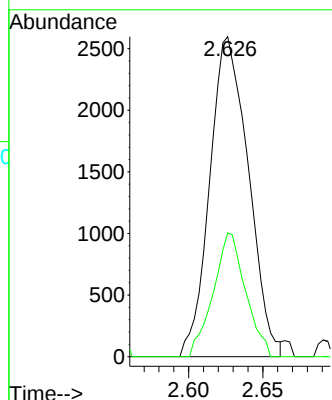
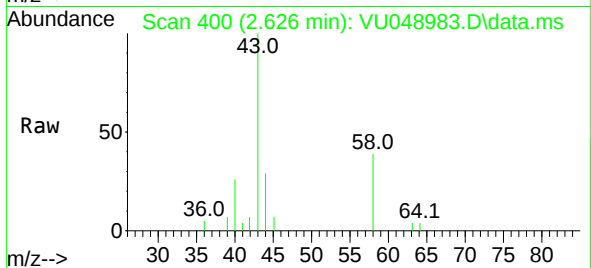
EXYX9

Tgt Ion: 43 Resp: 4700

Ion Ratio Lower Upper

43 100

58 32.3 0.0 59.8



#15

Methyl Acetate

Concen: 1.719 ug/L

RT: 2.954 min Scan# 502

Delta R.T. 0.006 min

Lab File: VU048983.D

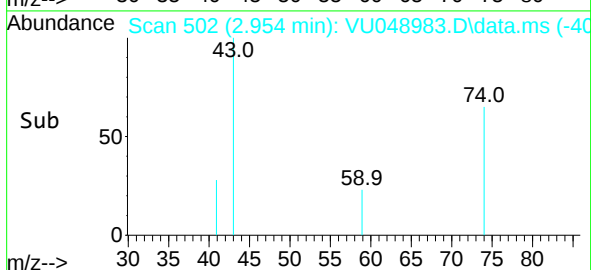
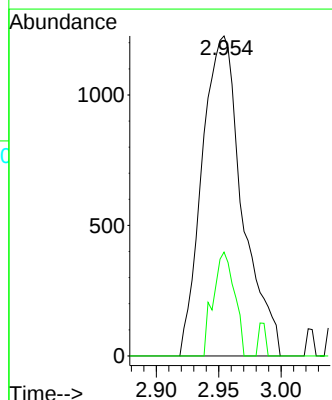
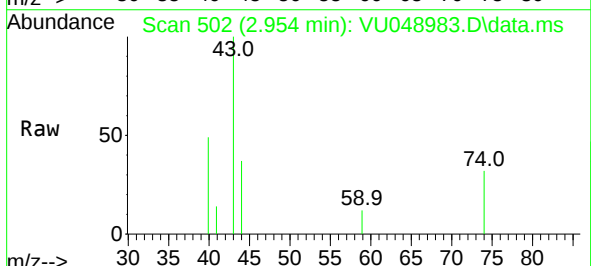
Acq: 09 Jun 2022 18:05

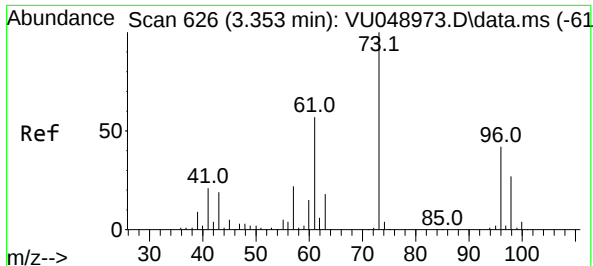
Tgt Ion: 43 Resp: 2757

Ion Ratio Lower Upper

43 100

74 17.0 21.7 32.5#

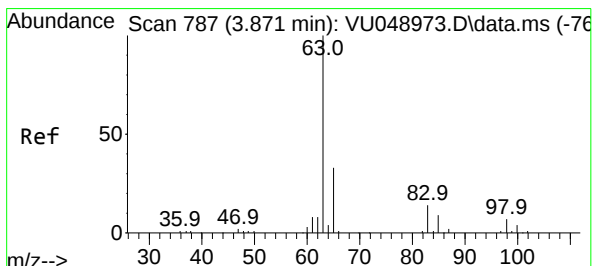
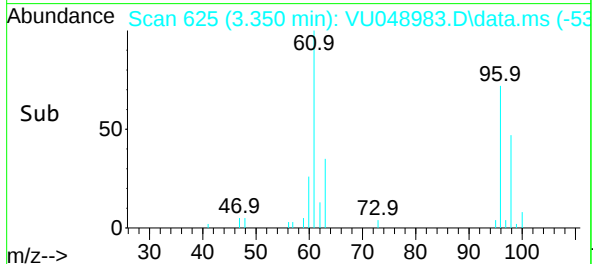
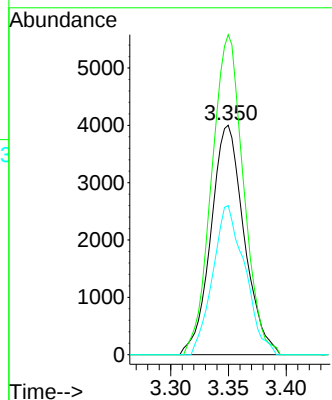
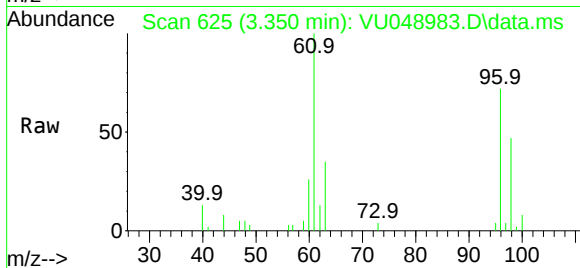




#17
trans-1,2-Dichloroethene
Concen: 5.737 ug/L
RT: 3.350 min Scan# 61
Delta R.T. -0.003 min
Lab File: VU048983.D
Acq: 09 Jun 2022 18:05

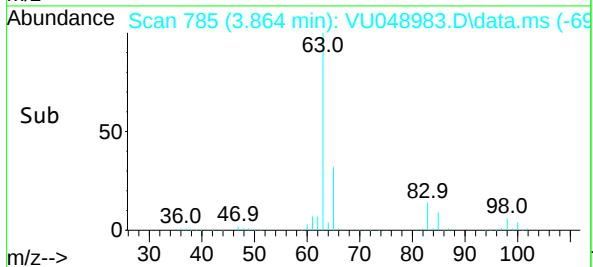
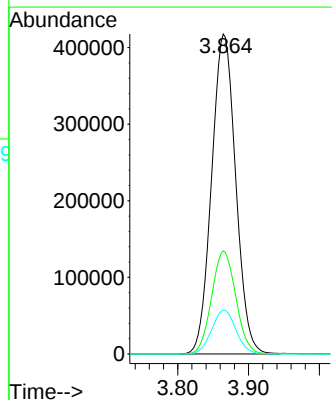
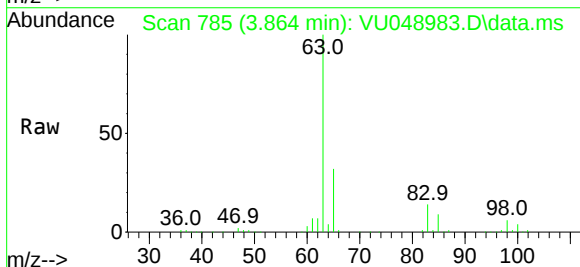
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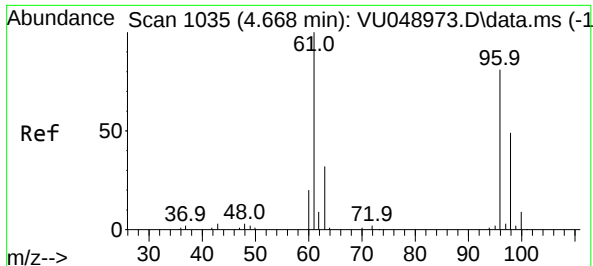
Tgt Ion: 96	Resp: 7991
Ion Ratio	Lower Upper
96	100
61	139.5 94.2 175.0
98	65.0 45.1 83.7



#19
1,1-Dichloroethane
Concen: 386.800 ug/L
RT: 3.864 min Scan# 785
Delta R.T. -0.006 min
Lab File: VU048983.D
Acq: 09 Jun 2022 18:05

Tgt Ion: 63	Resp: 986309
Ion Ratio	Lower Upper
63	100
65	32.3 21.8 40.6
83	13.7 9.8 18.2

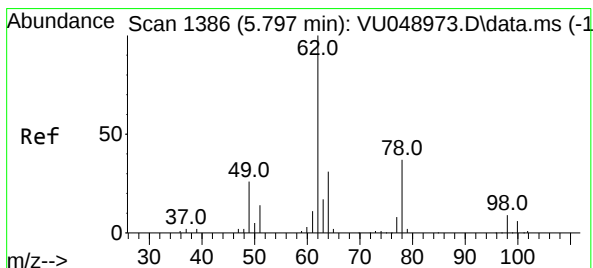
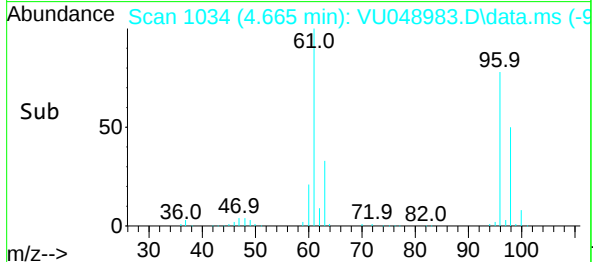
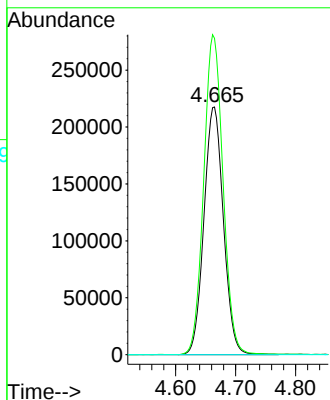
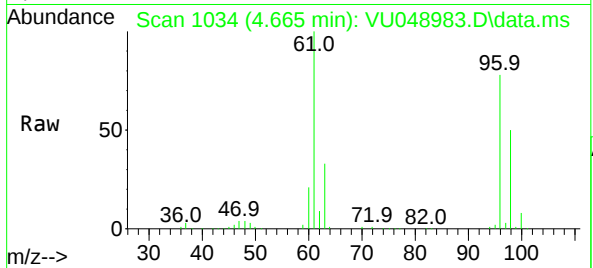




#20
 cis-1,2-Dichloroethene
 Concen: 313.319 ug/L
 RT: 4.665 min Scan# 1034
 Delta R.T. -0.003 min
 Lab File: VU048983.D
 Acq: 09 Jun 2022 18:05

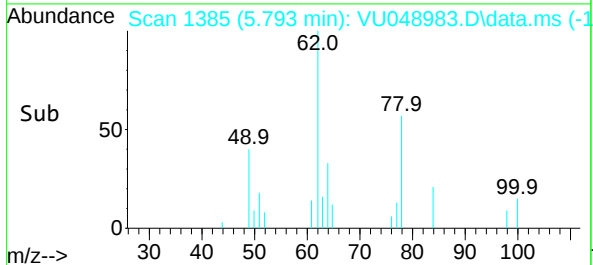
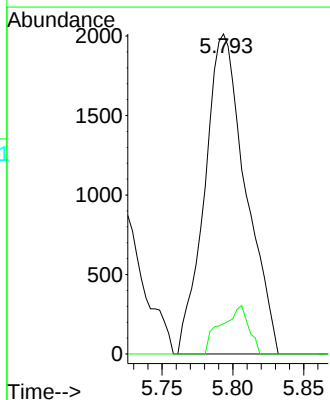
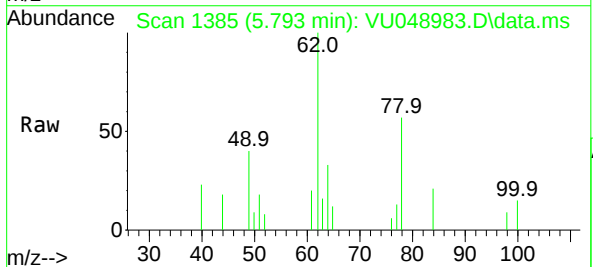
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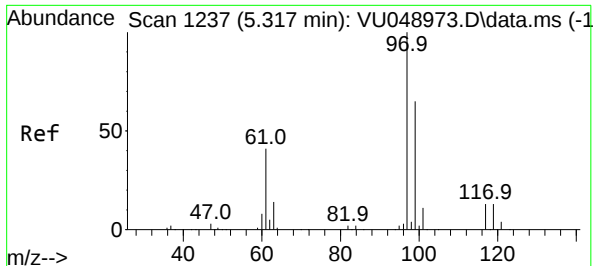
Tgt Ion: 96 Resp: 492135
 Ion Ratio Lower Upper
 96 100
 61 127.7 88.3 164.1
 68 0.0 0.0 0.0



#27
 1,2-Dichloroethane
 Concen: 1.584 ug/L
 RT: 5.793 min Scan# 1385
 Delta R.T. -0.003 min
 Lab File: VU048983.D
 Acq: 09 Jun 2022 18:05

Tgt Ion: 62 Resp: 4044
 Ion Ratio Lower Upper
 62 100
 98 9.5 6.0 9.0#





#30

1,1,1-Trichloroethane

Concen: 384.693 ug/L

RT: 5.314 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU048983.D

Acq: 09 Jun 2022 18:05

Instrument :

MSVOA_U

ClientSampleId :

EXYX9

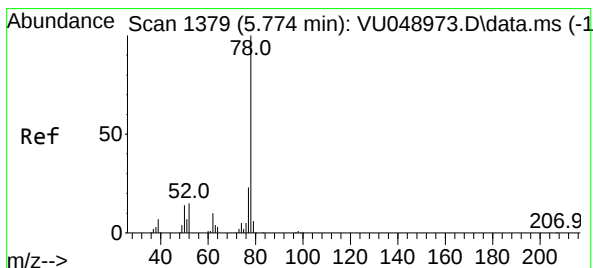
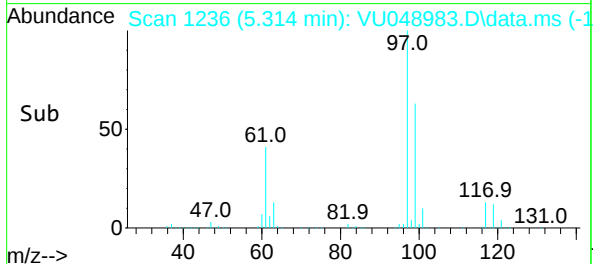
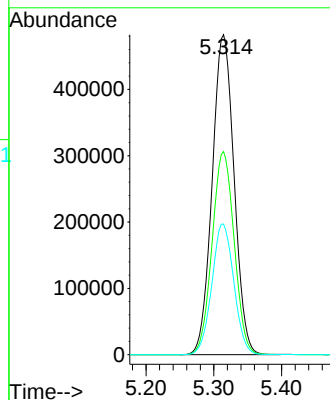
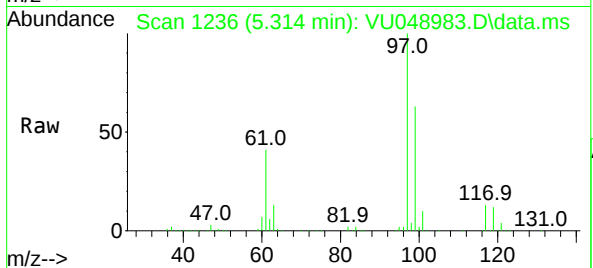
Tgt Ion: 97 Resp: 1084222

Ion Ratio Lower Upper

97 100

99 63.9 50.3 75.5

61 41.0 32.6 48.8



#33

Benzene

Concen: 1.140 ug/L

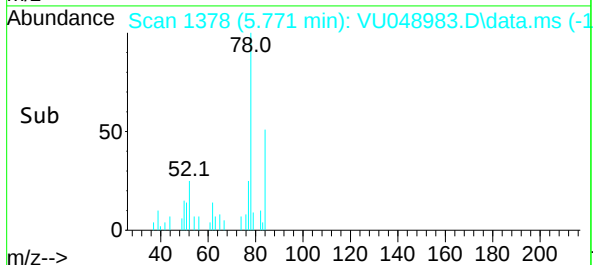
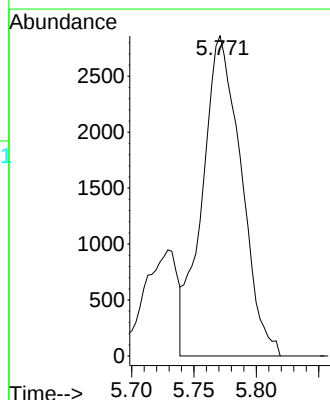
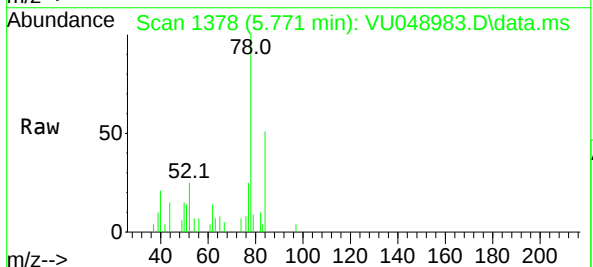
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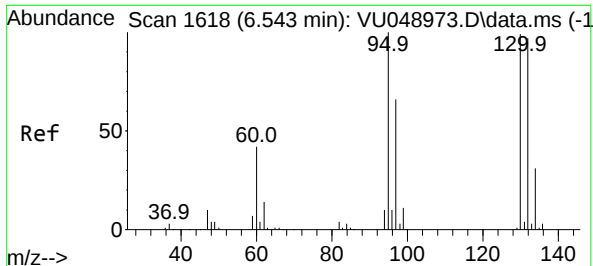
Delta R.T. -0.003 min

Lab File: VU048983.D

Acq: 09 Jun 2022 18:05

Tgt Ion: 78 Resp: 6202

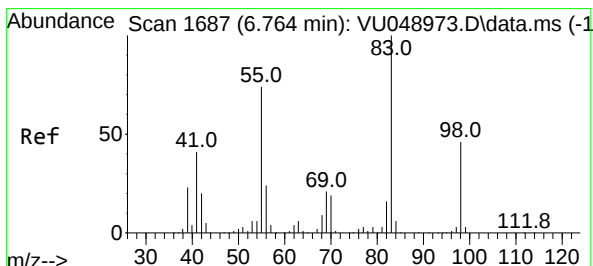
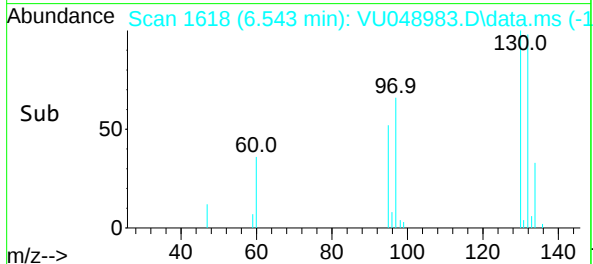
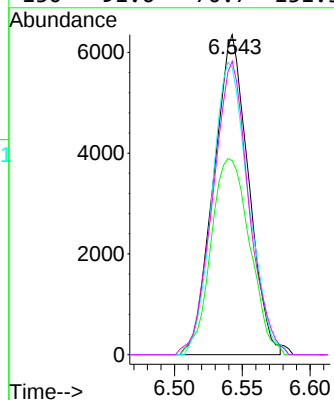
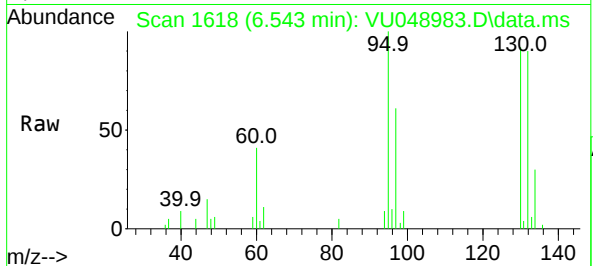




#34
Trichloroethene
Concen: 7.366 ug/L
RT: 6.543 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU048983.D
Acq: 09 Jun 2022 18:05

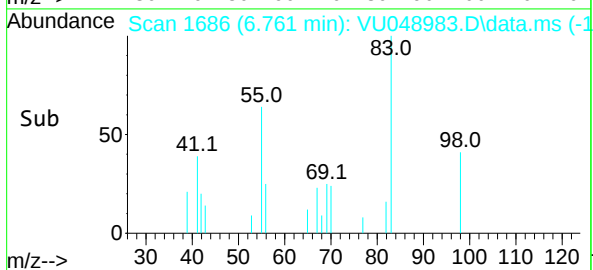
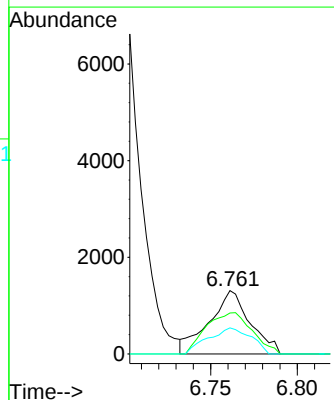
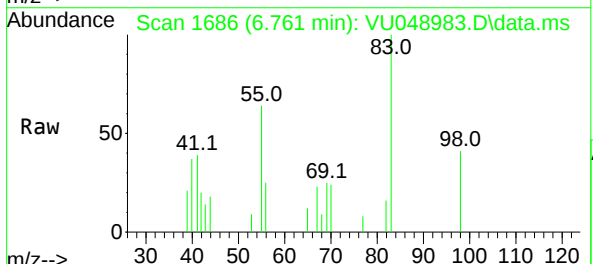
Instrument :
MSVOA_U
ClientSampleId :
EXYX9

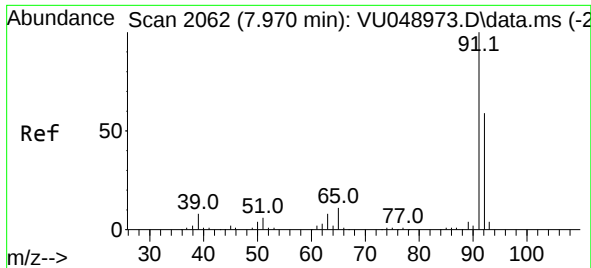
Tgt Ion: 95 Resp: 11333
Ion Ratio Lower Upper
95 100
97 60.6 45.2 84.0
132 89.7 67.3 124.9
130 91.6 70.7 131.3



#35
Methylcyclohexane
Concen: 0.970 ug/L
RT: 6.761 min Scan# 1686
Delta R.T. -0.003 min
Lab File: VU048983.D
Acq: 09 Jun 2022 18:05

Tgt Ion: 83 Resp: 2141
Ion Ratio Lower Upper
83 100
55 73.4 56.2 84.4
98 43.3 38.2 57.2





#42

Toluene

Concen: 24.879 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VU048983.D

Acq: 09 Jun 2022 18:05

Instrument :

MSVOA_U

ClientSampleId :

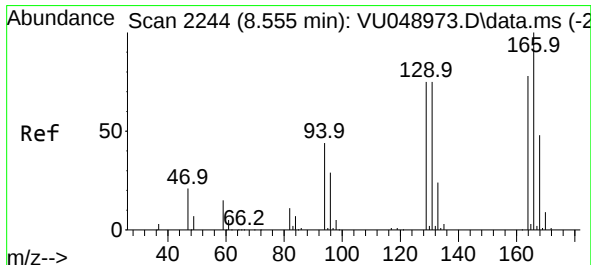
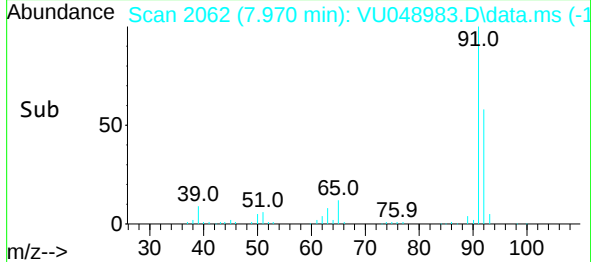
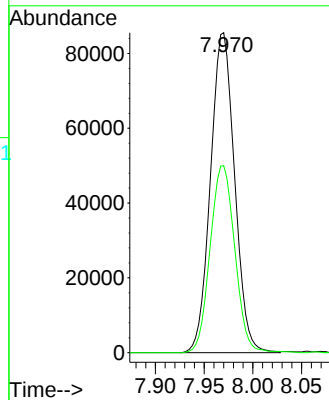
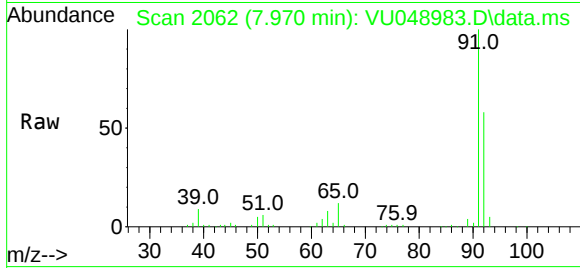
EXYX9

Tgt Ion: 91 Resp: 147464

Ion Ratio Lower Upper

91 100

92 58.4 41.4 77.0



#46

Tetrachloroethene

Concen: 16.092 ug/L

RT: 8.552 min Scan# 2243

Delta R.T. -0.003 min

Lab File: VU048983.D

Acq: 09 Jun 2022 18:05

Tgt Ion: 164 Resp: 20203

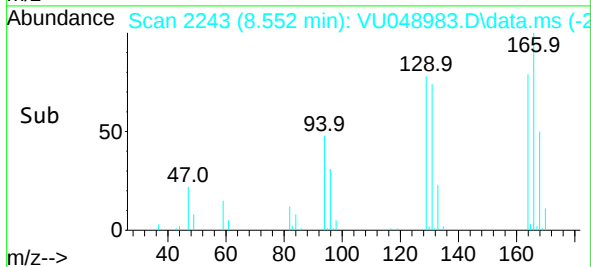
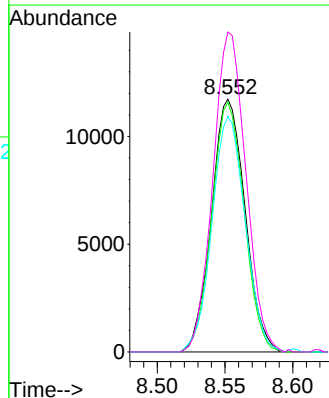
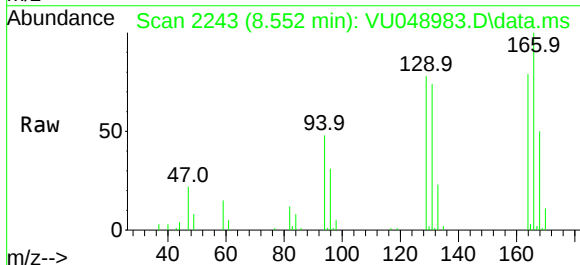
Ion Ratio Lower Upper

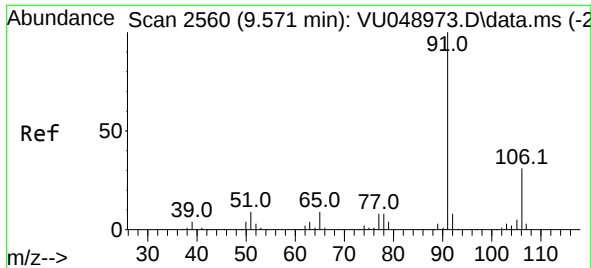
164 100

129 98.7 64.3 119.3

131 93.1 64.5 119.7

166 126.6 87.5 162.5

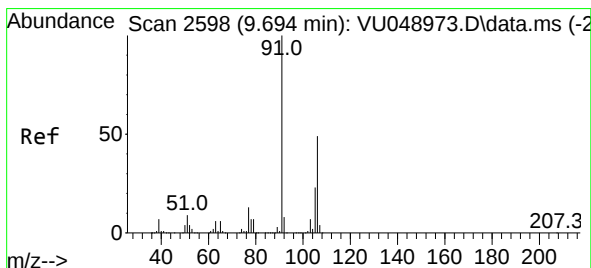
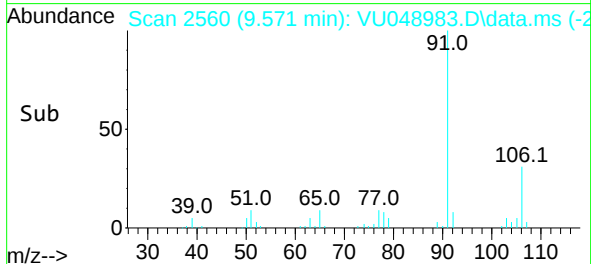
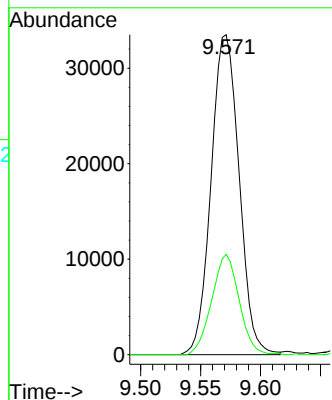
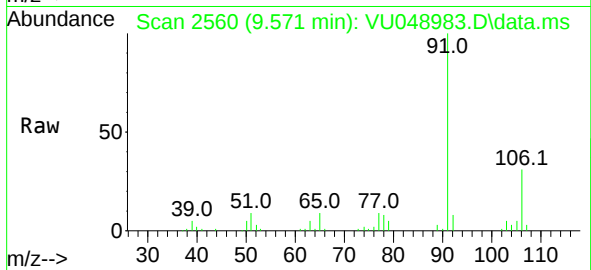




#52
Ethylbenzene
Concen: 8.029 ug/L
RT: 9.571 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU048983.D
Acq: 09 Jun 2022 18:05

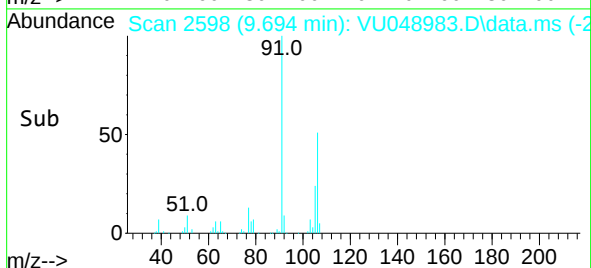
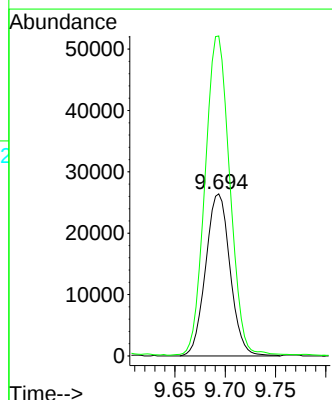
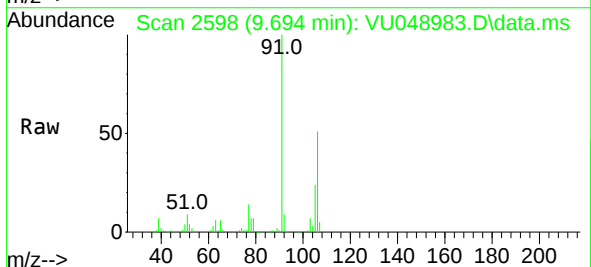
Instrument :
MSVOA_U
ClientSampleId :
EXYX9

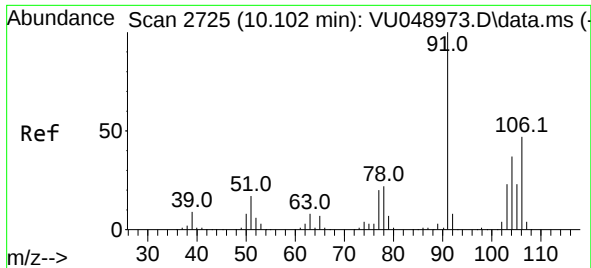
Tgt Ion: 91 Resp: 54385
Ion Ratio Lower Upper
91 100
106 31.4 21.8 40.6



#53
m,p-Xylene
Concen: 16.408 ug/L
RT: 9.694 min Scan# 2598
Delta R.T. 0.000 min
Lab File: VU048983.D
Acq: 09 Jun 2022 18:05

Tgt Ion: 106 Resp: 44666
Ion Ratio Lower Upper
106 100
91 197.5 141.8 263.4

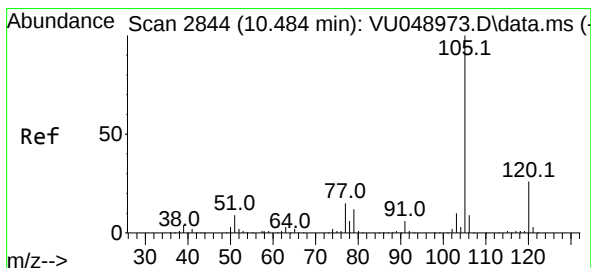
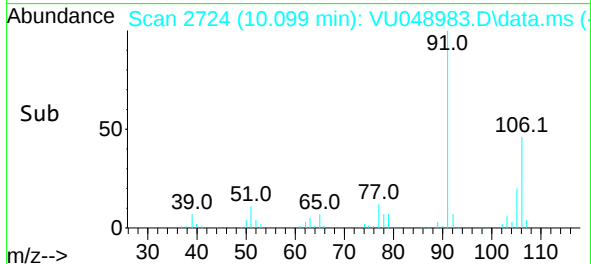
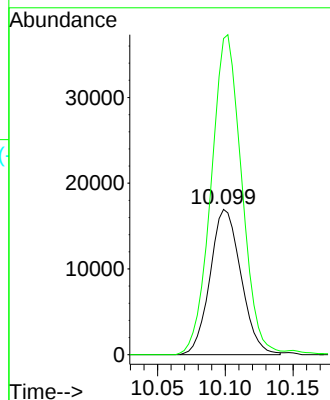
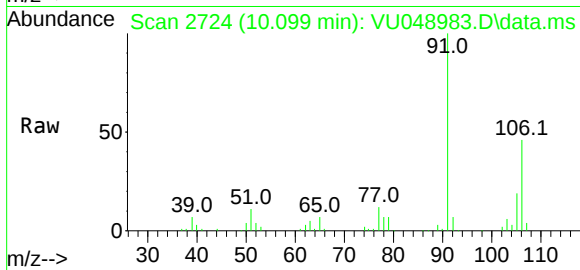




#54
o-Xylene
Concen: 10.308 ug/L
RT: 10.099 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU048983.D
Acq: 09 Jun 2022 18:05

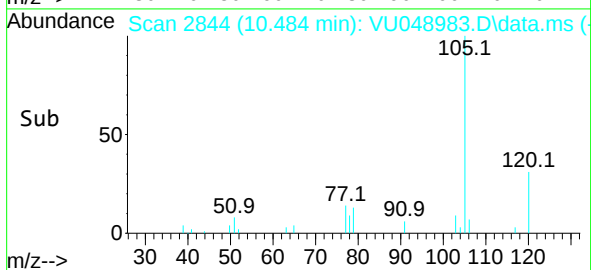
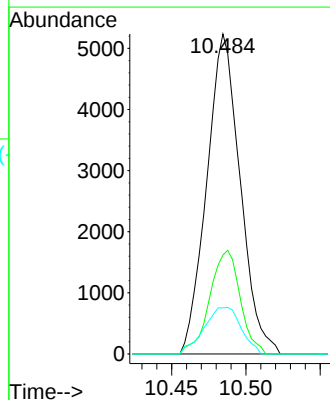
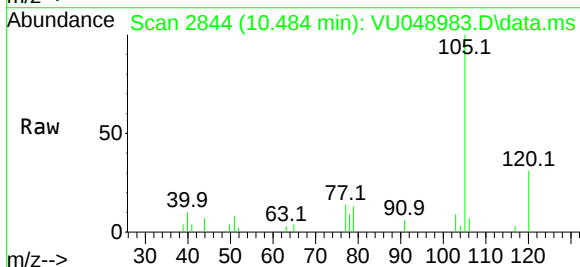
Instrument :
MSVOA_U
ClientSampleId :
EXYX9

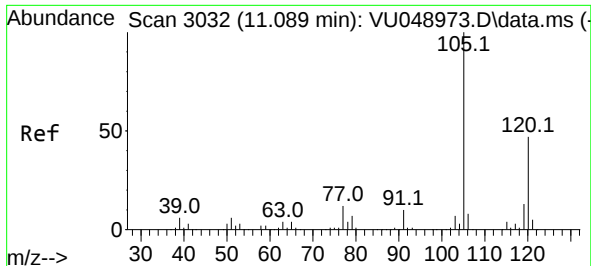
Tgt Ion:106 Resp: 26882
Ion Ratio Lower Upper
106 100
91 217.6 150.1 278.9



#61
Isopropylbenzene
Concen: 1.549 ug/L
RT: 10.484 min Scan# 2844
Delta R.T. 0.000 min
Lab File: VU048983.D
Acq: 09 Jun 2022 18:05

Tgt Ion:105 Resp: 8173
Ion Ratio Lower Upper
105 100
120 29.5 21.0 31.6
77 16.2 12.5 18.7





#62

1,3,5-Trimethylbenzene

Concen: 9.718 ug/L

RT: 11.089 min Scan# 3032

Delta R.T. 0.000 min

Lab File: VU048983.D

Acq: 09 Jun 2022 18:05

Instrument :

MSVOA_U

ClientSampleId :

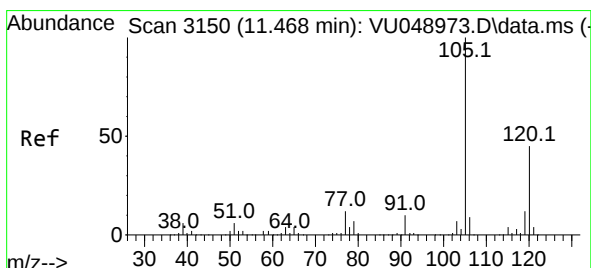
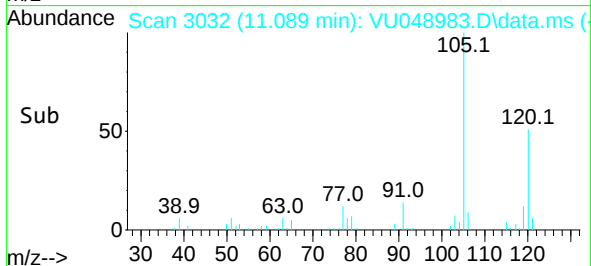
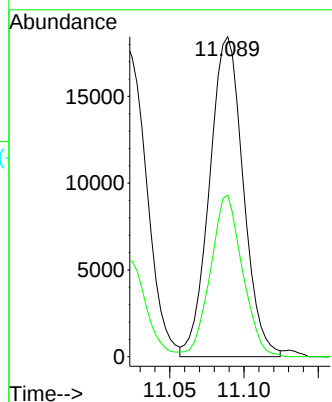
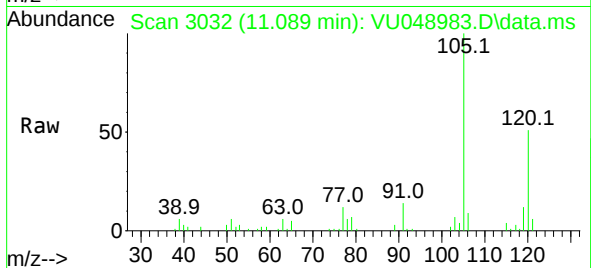
EXYX9

Tgt Ion:105 Resp: 29158

Ion Ratio Lower Upper

105 100

120 47.8 38.5 57.7



#63

1,2,4-Trimethylbenzene

Concen: 33.373 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. 0.000 min

Lab File: VU048983.D

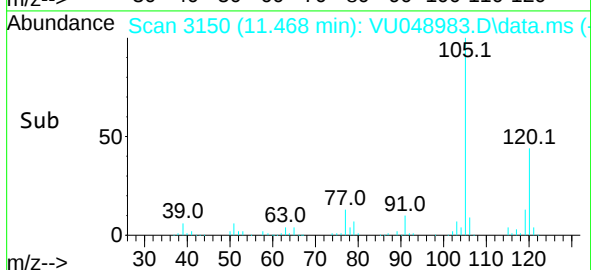
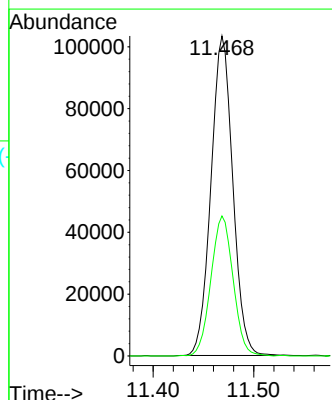
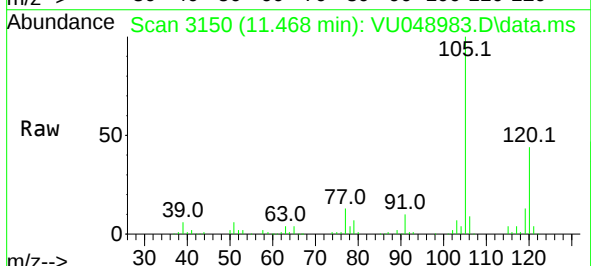
Acq: 09 Jun 2022 18:05

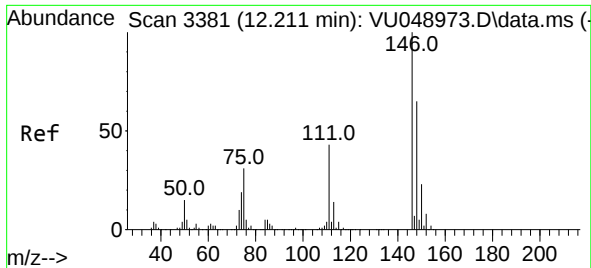
Tgt Ion:105 Resp: 155698

Ion Ratio Lower Upper

105 100

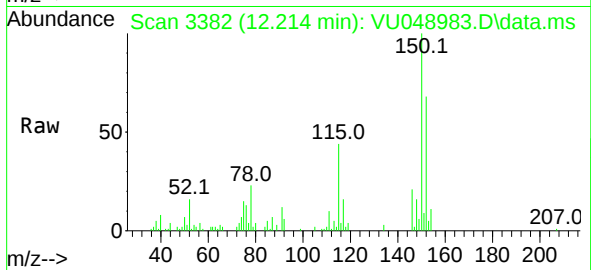
120 44.5 35.4 53.2





#67
 1,2-Dichlorobenzene
 Concen: 1.987 ug/L
 RT: 12.214 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VU048983.D
 Acq: 09 Jun 2022 18:05

Instrument :
 MSVOA_U
 ClientSampleId :
 EXYX9



Tgt Ion:	146	Resp:	5499
Ion	Ratio	Lower	Upper
146	100		
111	47.6	34.1	51.1
148	72.7	50.9	76.3

