

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120821\
 Data File : VU046195.D
 Acq On : 08 Dec 2021 22:57
 Operator : SY/MD
 Sample : M4983-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EW5N7

Quant Time: Dec 09 04:36:43 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	203871	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	201628	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	108619	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	60823	36.217	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	72.440%
7) Chloroethane-d5	1.919	69	46784	36.283	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	72.560%
11) 1,1-Dichloroethene-d2	2.575	63	115338	38.257	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	76.520%
21) 2-Butanone-d5	4.645	46	130925	98.069	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.070%
24) Chloroform-d	5.067	84	121866	43.454	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.900%
26) 1,2-Dichloroethane-d4	5.707	65	81558	43.333	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.660%
32) Benzene-d6	5.732	84	250253	43.304	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.600%
36) 1,2-Dichloropropane-d6	6.694	67	78832	44.015	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	88.040%
41) Toluene-d8	7.899	98	229840	43.681	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.360%
43) trans-1,3-Dichloroprop...	8.179	79	40260	46.566	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.140%
47) 2-Hexanone-d5	8.632	63	95163	112.064	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	112.060%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	130972	48.220	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.440%
66) 1,2-Dichlorobenzene-d4	12.192	152	99907	47.761	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.520%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	394584	197.253	ug/L	99
8) Chloroethane	1.941	64	174957	151.056	ug/L	99
12) 1,1-Dichloroethene	2.588	96	63570	45.096	ug/L	85
14) Carbon disulfide	2.803	76	2359	0.539	ug/L #	75
17) trans-1,2-Dichloroethene	3.359	96	29147	19.538	ug/L	97
19) 1,1-Dichloroethane	3.877	63	4592789	1693.265	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	5268388	3254.758	ug/L	97
27) 1,2-Dichloroethane	5.797	62	20988	9.385	ug/L	98
29) Cyclohexane	5.395	56	3933	1.675	ug/L	99
30) 1,1,1-Trichloroethane	5.321	97	499504	201.820	ug/L	98
33) Benzene	5.777	78	21458	3.516	ug/L	100
34) Trichloroethene	6.543	95	21081	13.113	ug/L	97
35) Methylcyclohexane	6.764	83	18182	7.294	ug/L	98
40) 4-Methyl-2-pentanone	7.793	43	23954	10.199	ug/L	97
42) Toluene	7.970	91	706345	107.870	ug/L	100
46) Tetrachloroethene	8.555	164	34506	29.207	ug/L	98
52) Ethylbenzene	9.571	91	569440	80.804	ug/L	98
53) m,p-Xylene	9.694	106	573302	208.601	ug/L	97
54) o-xylene	10.102	106	326905	122.584	ug/L	98

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QLast Update : Fri Dec 03 05:08:36 2021
Response via : Initial Calibration

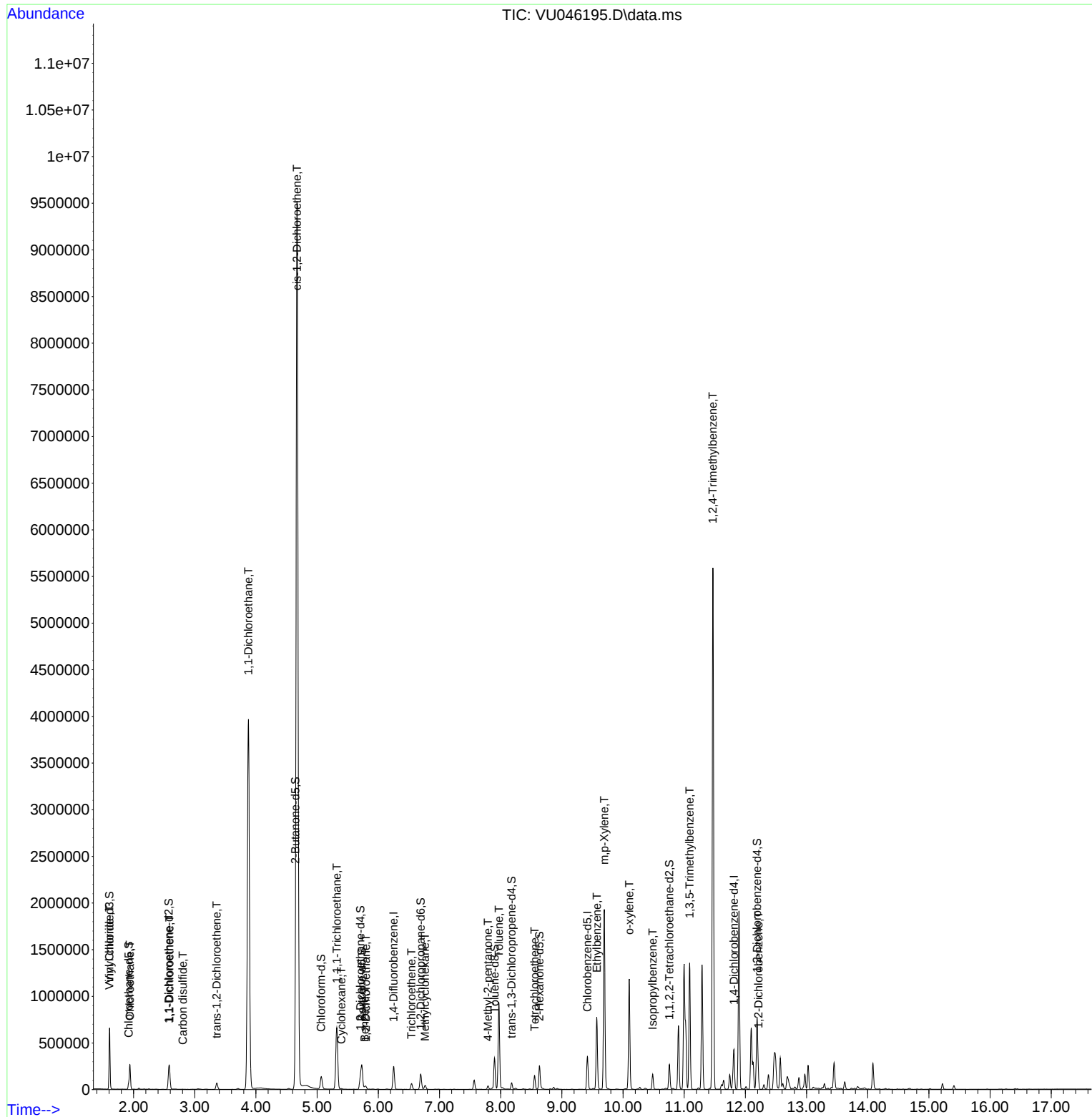
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) Isopropylbenzene	10.484	105	108766	15.390	ug/L	100
62) 1,3,5-Trimethylbenzene	11.089	105	747672	126.926	ug/L	98
63) 1,2,4-Trimethylbenzene	11.468	105	3181895	539.902	ug/L	99
67) 1,2-Dichlorobenzene	12.214	146	8174	2.418	ug/L	93

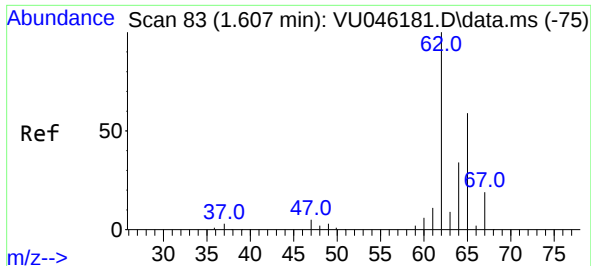
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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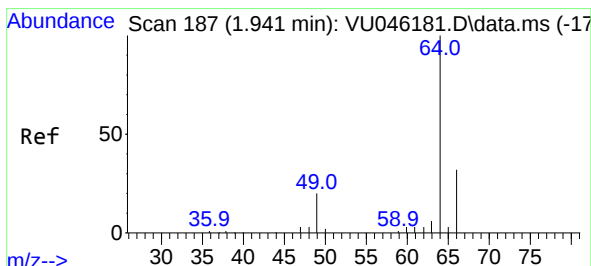
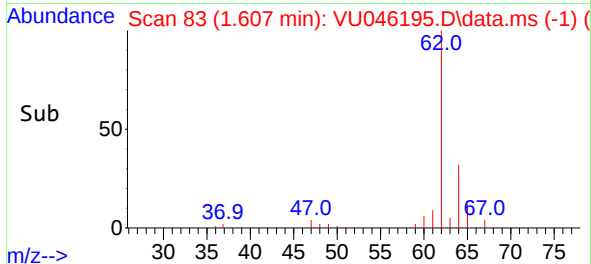
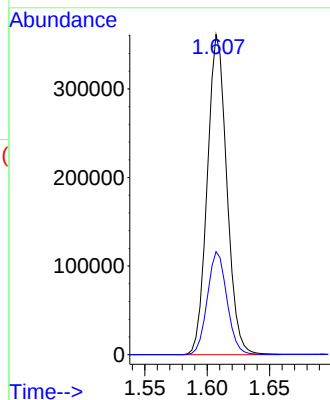
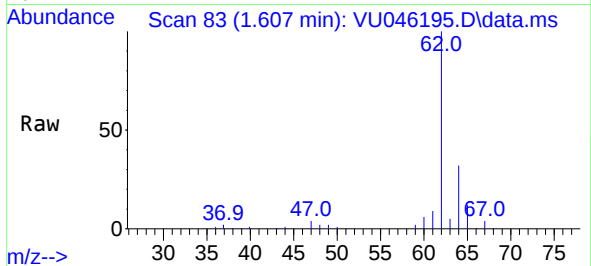




#5
 Vinyl chloride
 Concen: 197.253 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU046195.D
 Acq: 08 Dec 2021 22:57

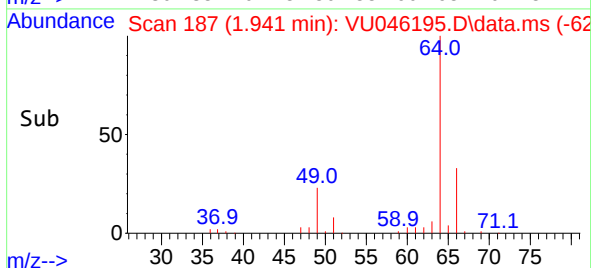
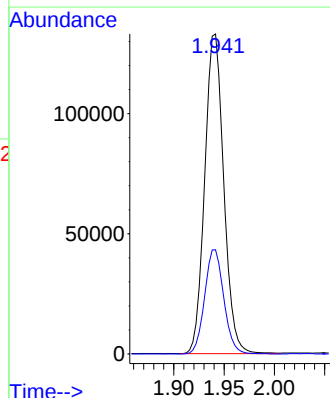
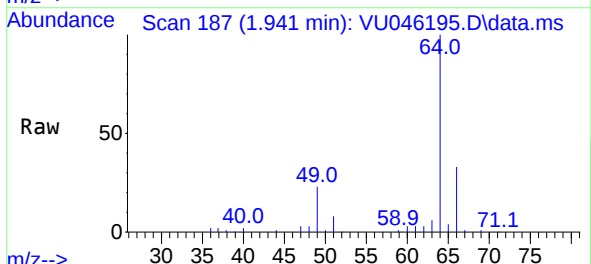
Instrument :
 MSVOA_U
 ClientSampleId :
 EW5N7

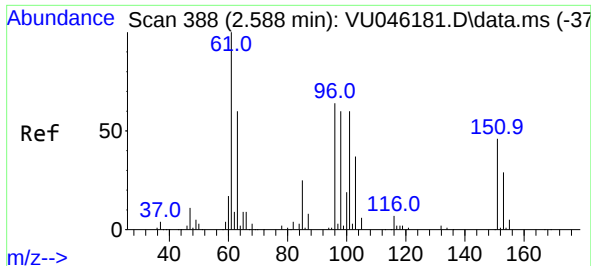
Tgt Ion: 62 Resp: 394584
 Ion Ratio Lower Upper
 62 100
 64 32.2 22.9 42.5



#8
 Chloroethane
 Concen: 151.056 ug/L
 RT: 1.941 min Scan# 187
 Delta R.T. 0.003 min
 Lab File: VU046195.D
 Acq: 08 Dec 2021 22:57

Tgt Ion: 64 Resp: 174957
 Ion Ratio Lower Upper
 64 100
 66 32.5 22.5 41.9





#12

1,1-Dichloroethene

Concen: 45.096 ug/L

RT: 2.588 min Scan# 388

Delta R.T. 0.003 min

Lab File: VU046195.D

Acq: 08 Dec 2021 22:57

Instrument :

MSVOA_U

ClientSampleId :

EW5N7

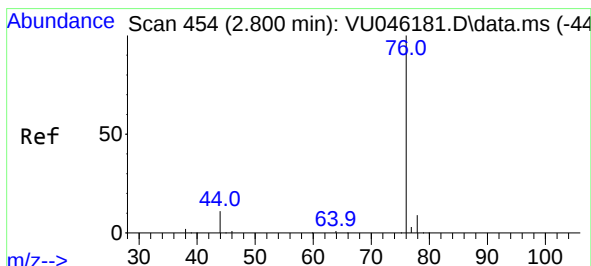
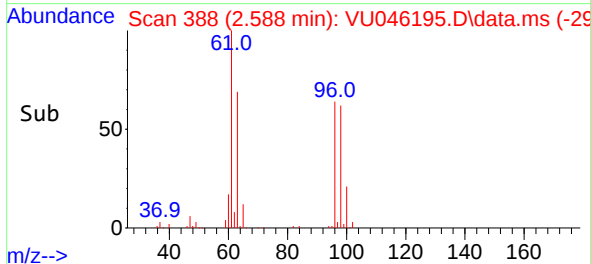
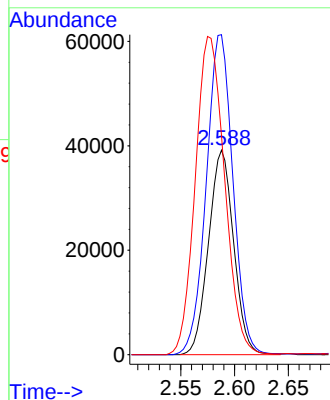
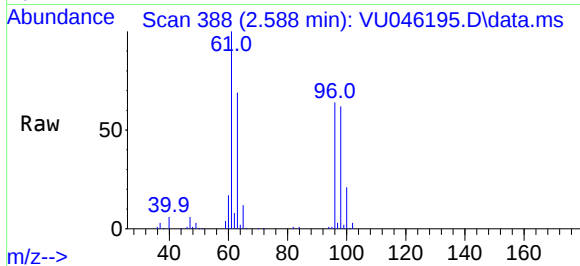
Tgt Ion: 96 Resp: 63570

Ion Ratio Lower Upper

96 100

61 156.5 118.6 220.2

63 107.3 93.0 172.8



#14

Carbon disulfide

Concen: 0.539 ug/L

RT: 2.803 min Scan# 455

Delta R.T. 0.003 min

Lab File: VU046195.D

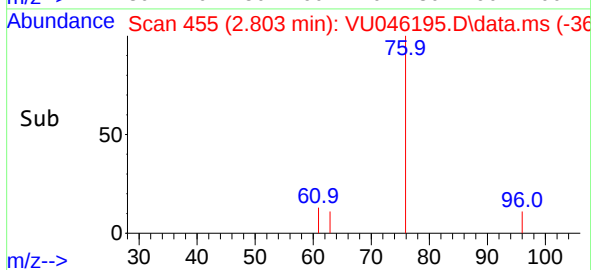
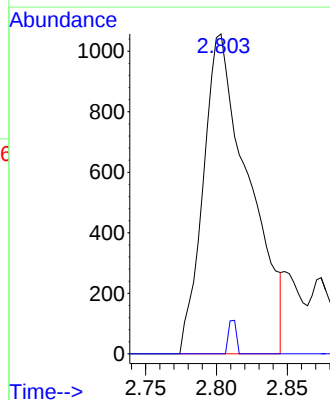
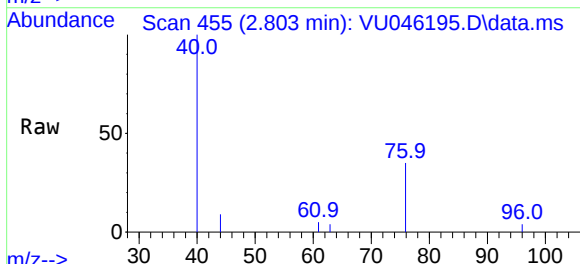
Acq: 08 Dec 2021 22:57

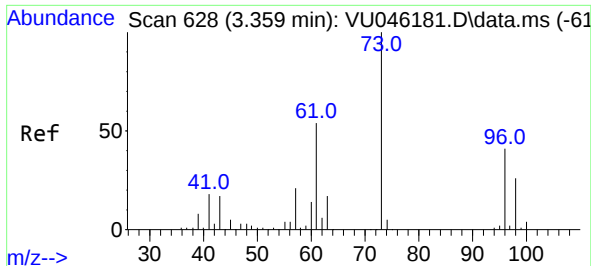
Tgt Ion: 76 Resp: 2359

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



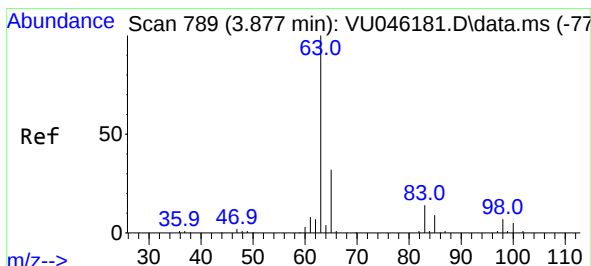
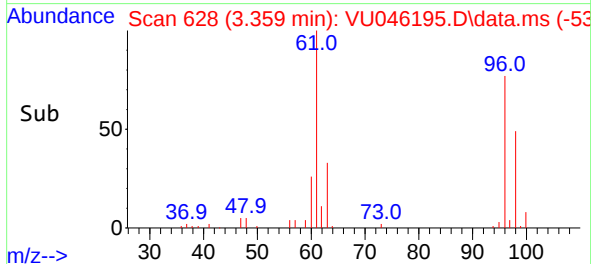
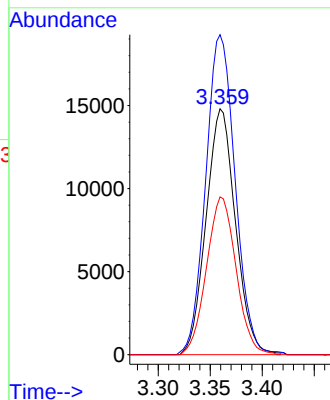
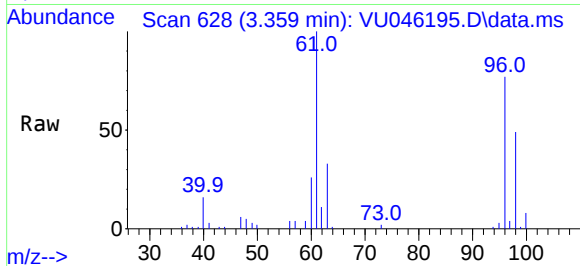


#17
trans-1,2-Dichloroethene
Concen: 19.538 ug/L
RT: 3.359 min Scan# 61
Delta R.T. 0.000 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Instrument :
MSVOA_U
ClientSampleId :
EW5N7

Tgt Ion: 96 Resp: 29147

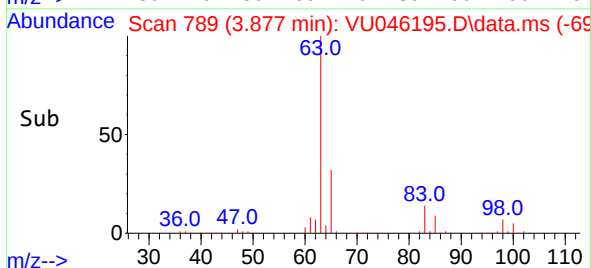
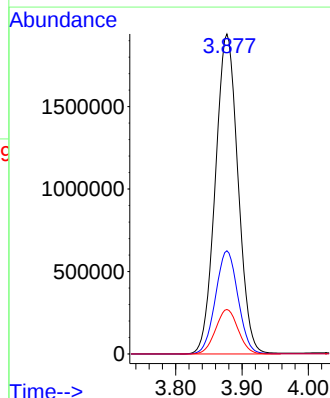
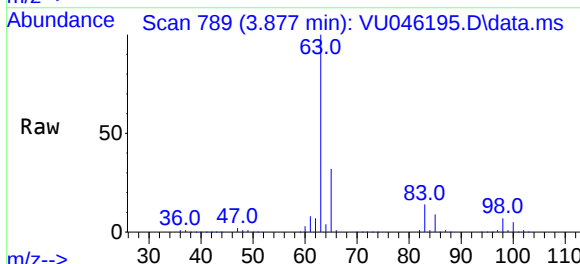
Ion	Ratio	Lower	Upper
96	100		
61	130.2	94.6	175.6
98	64.2	44.0	81.8

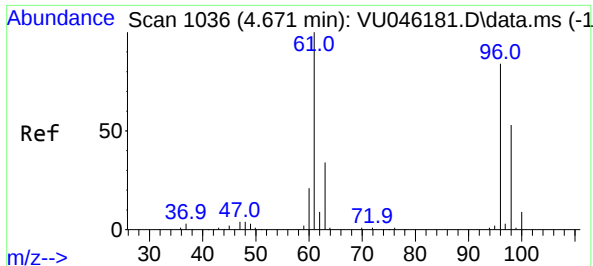


#19
1,1-Dichloroethane
Concen: 1693.265 ug/L
RT: 3.877 min Scan# 789
Delta R.T. 0.000 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion: 63 Resp: 4592789

Ion	Ratio	Lower	Upper
63	100		
65	32.3	22.8	42.4
83	13.9	9.6	17.8



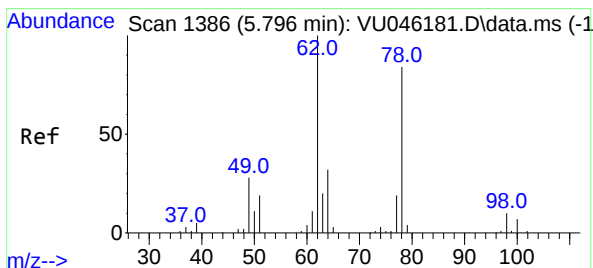
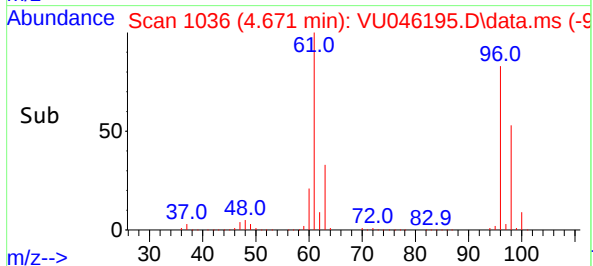
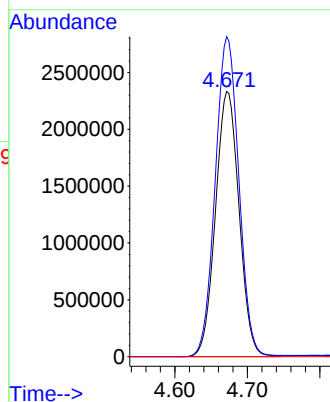
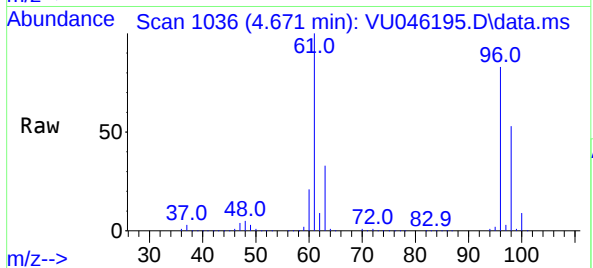


#20
cis-1,2-Dichloroethene
Concen: 3254.758 ug/L
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Instrument :
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ClientSampleId :
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Tgt Ion: 96 Resp: 5268388

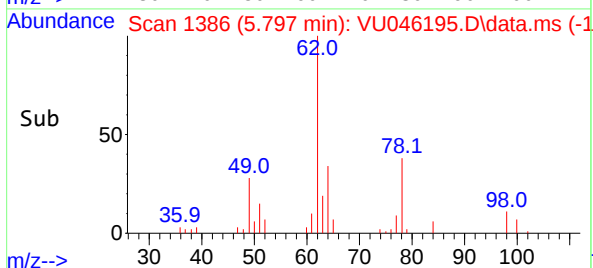
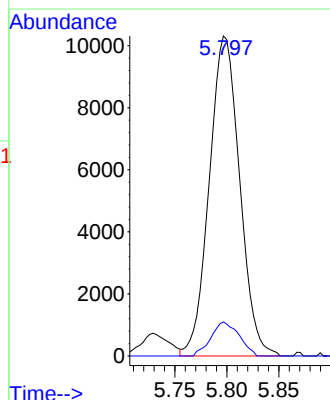
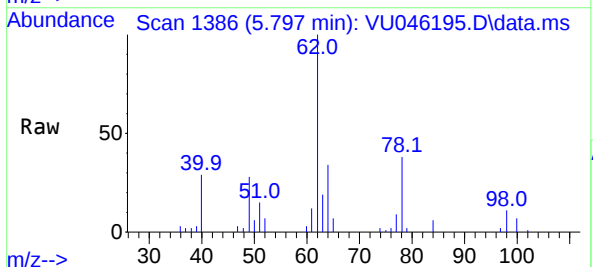
Ion	Ratio	Lower	Upper
96	100		
61	120.6	86.8	161.2
68	0.0	0.0	0.0

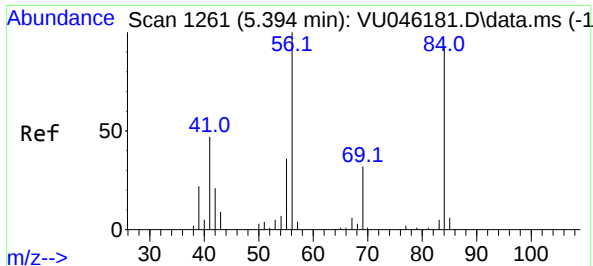


#27
1,2-Dichloroethane
Concen: 9.385 ug/L
RT: 5.797 min Scan# 1386
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion: 62 Resp: 20988

Ion	Ratio	Lower	Upper
62	100		
98	10.7	7.9	11.9





#29

Cyclohexane

Concen: 1.675 ug/L

RT: 5.395 min Scan# 1261

Delta R.T. 0.000 min

Lab File: VU046195.D

Acq: 08 Dec 2021 22:57

Instrument :

MSVOA_U

ClientSampleId :

EW5N7

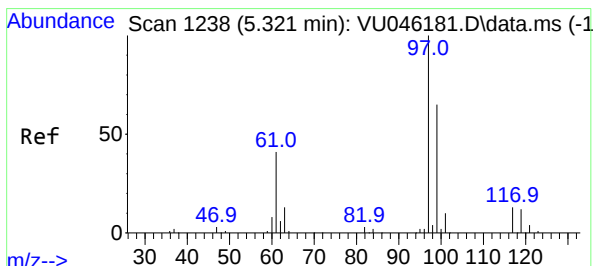
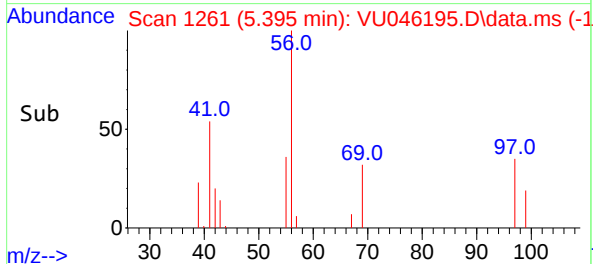
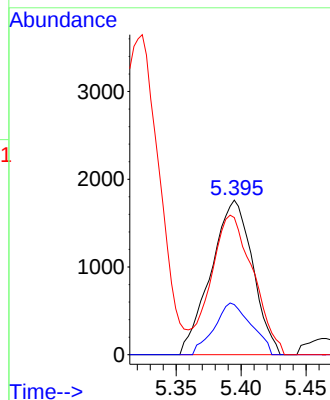
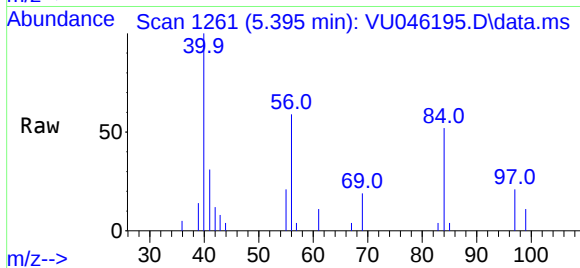
Tgt Ion: 56 Resp: 3933

Ion Ratio Lower Upper

56 100

69 29.7 25.2 37.8

84 91.8 73.3 109.9



#30

1,1,1-Trichloroethane

Concen: 201.820 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VU046195.D

Acq: 08 Dec 2021 22:57

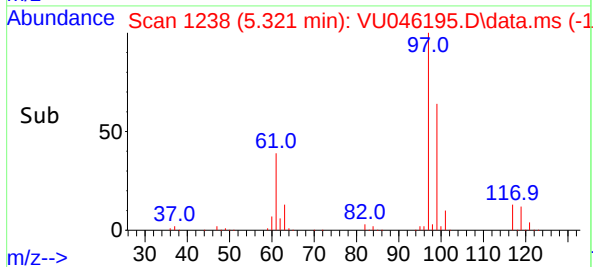
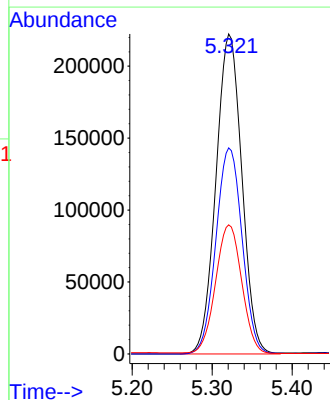
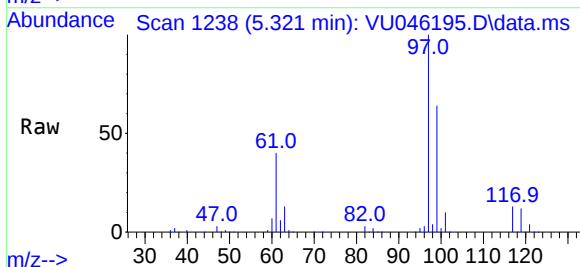
Tgt Ion: 97 Resp: 499504

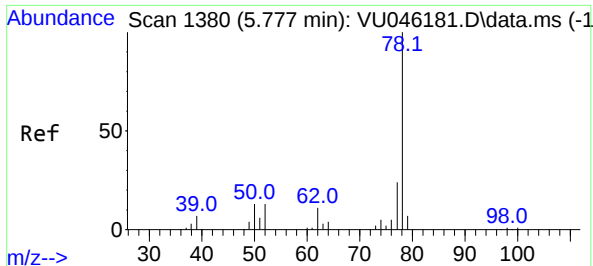
Ion Ratio Lower Upper

97 100

99 65.3 51.8 77.6

61 40.7 34.4 51.6

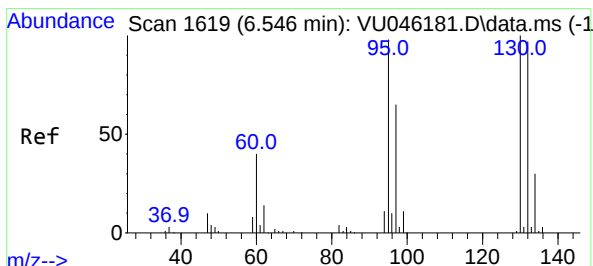
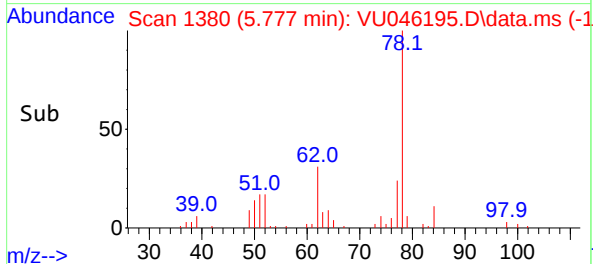
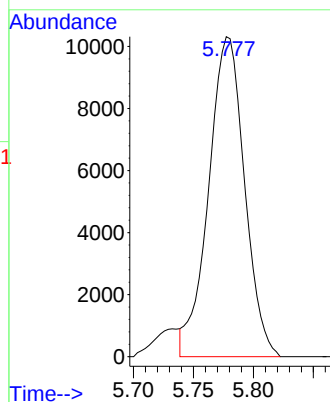
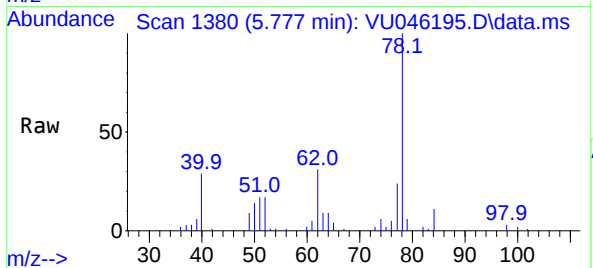




#33
Benzene
Concen: 3.516 ug/L
RT: 5.777 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

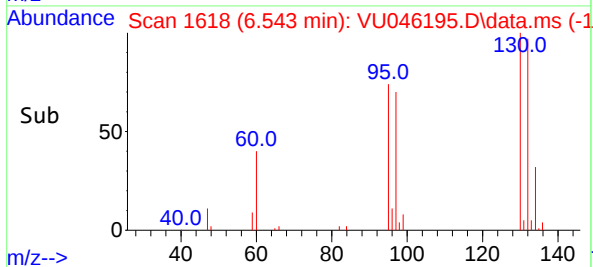
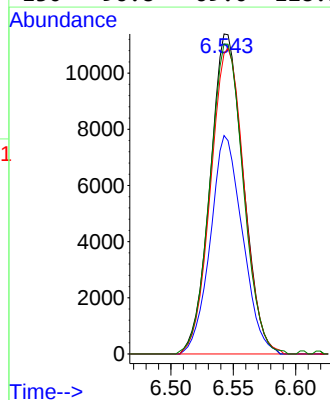
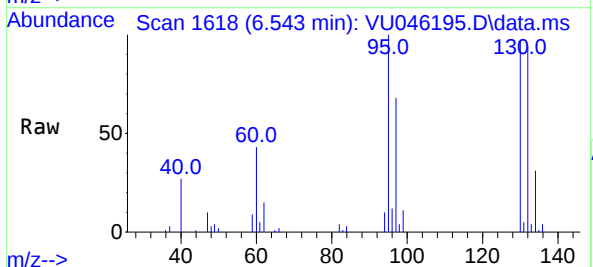
Instrument :
MSVOA_U
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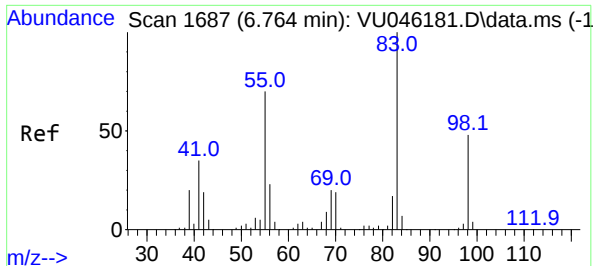
Tgt Ion: 78 Resp: 21458



#34
Trichloroethene
Concen: 13.113 ug/L
RT: 6.543 min Scan# 1618
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion: 95 Resp: 21081
Ion Ratio Lower Upper
95 100
97 68.3 44.1 81.9
132 93.9 66.8 124.0
130 96.8 69.0 128.1

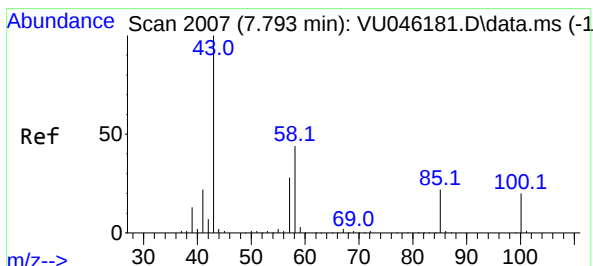
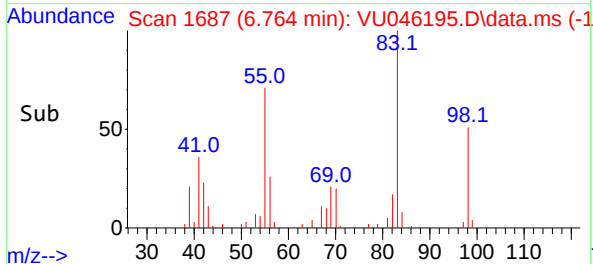
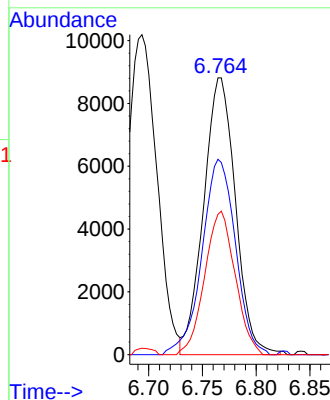
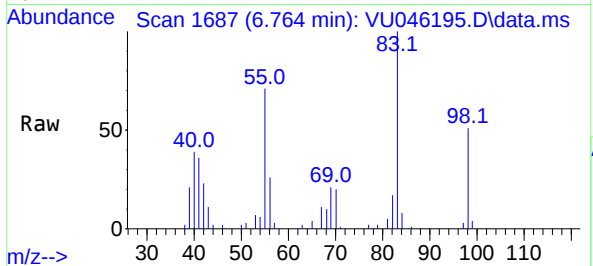




#35
Methylcyclohexane
Concen: 7.294 ug/L
RT: 6.764 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

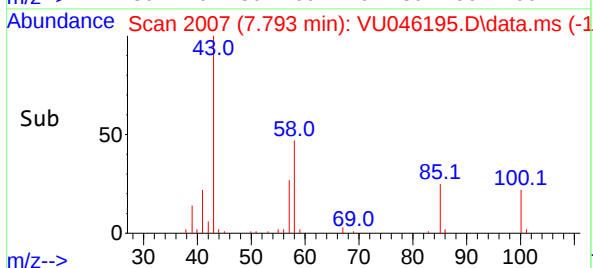
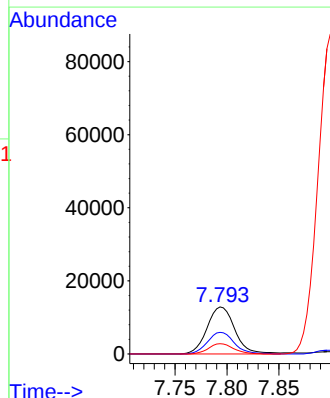
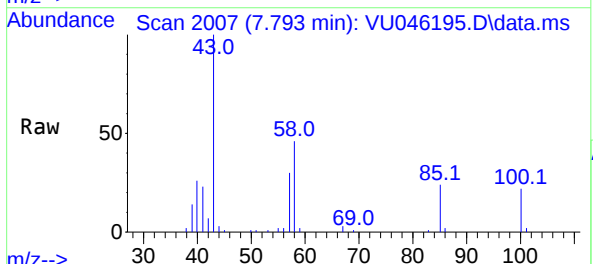
Instrument :
MSVOA_U
ClientSampleId :
EW5N7

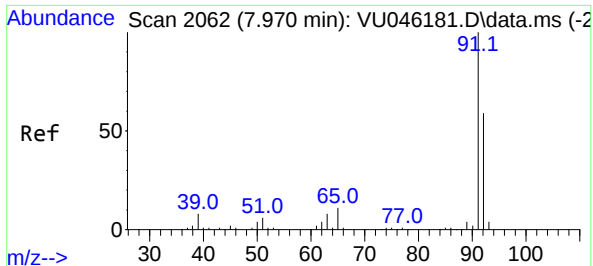
Tgt Ion: 83	Resp:	18182
Ion	Ratio	Lower Upper
83	100	
55	74.1	57.8 86.6
98	49.6	38.4 57.6



#40
4-Methyl-2-pentanone
Concen: 10.199 ug/L
RT: 7.793 min Scan# 2007
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion: 43	Resp:	23954
Ion	Ratio	Lower Upper
43	100	
58	44.2	34.2 51.4
100	19.7	14.5 21.7

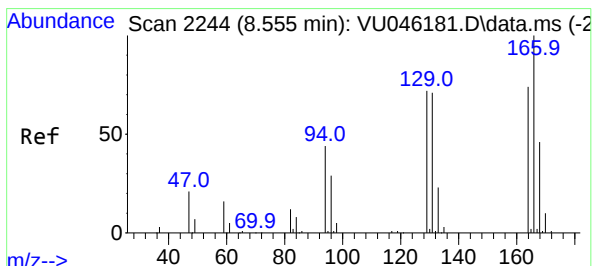
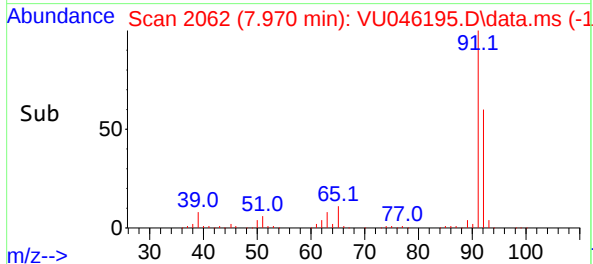
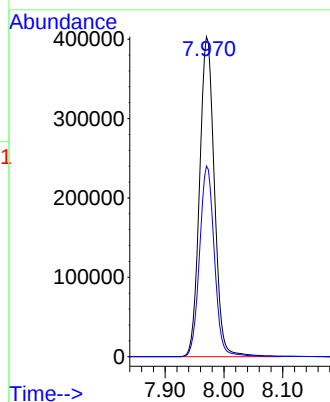
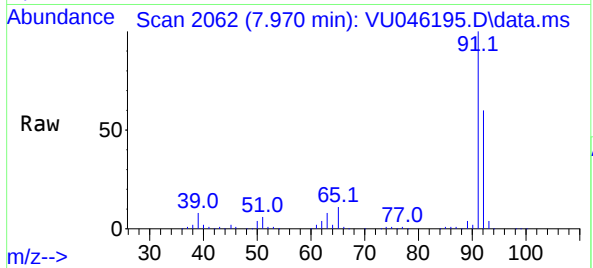




#42
Toluene
Concen: 107.870 ug/L
RT: 7.970 min Scan# 2062
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

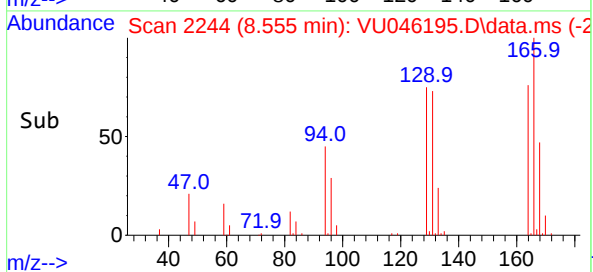
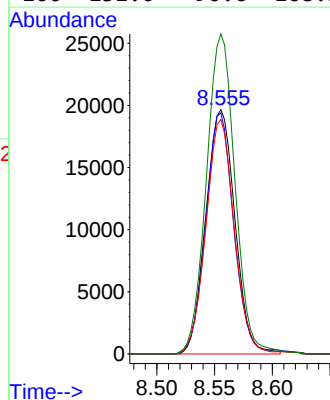
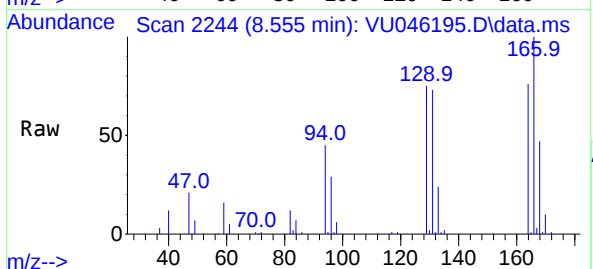
Instrument :
MSVOA_U
ClientSampleId :
EW5N7

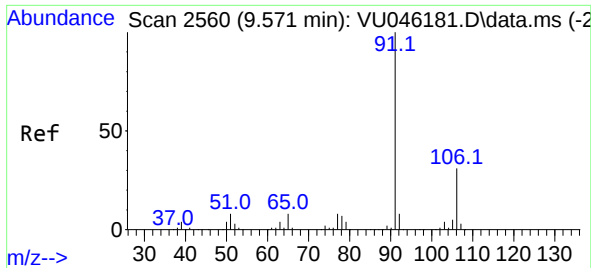
Tgt Ion: 91 Resp: 706345
Ion Ratio Lower Upper
91 100
92 59.5 41.9 77.7



#46
Tetrachloroethene
Concen: 29.207 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. 0.000 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion: 164 Resp: 34506
Ion Ratio Lower Upper
164 100
129 98.7 71.1 132.1
131 96.0 67.8 126.0
166 131.0 90.6 168.2

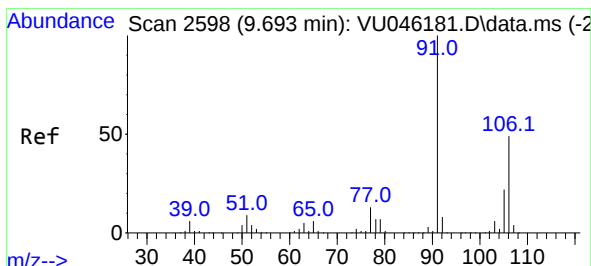
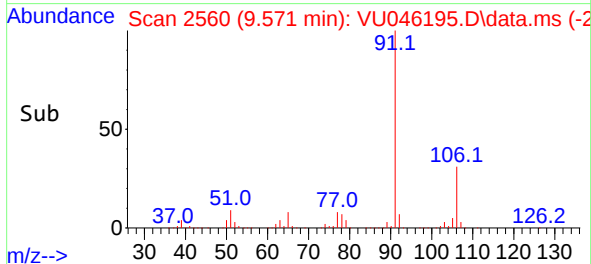
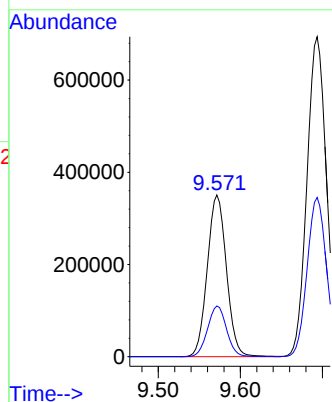
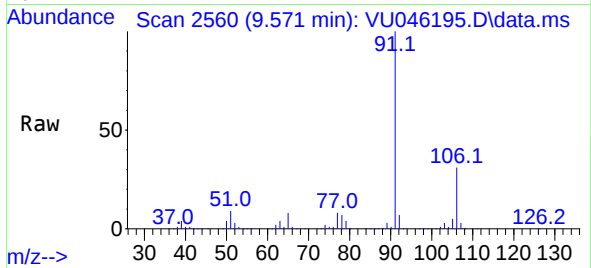




#52
Ethylbenzene
Concen: 80.804 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

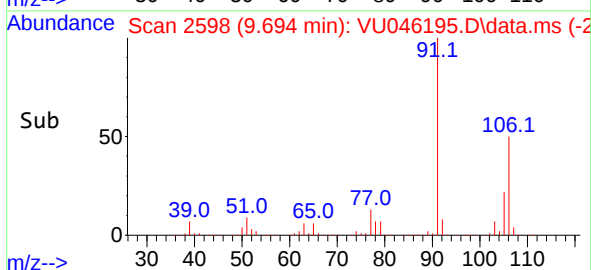
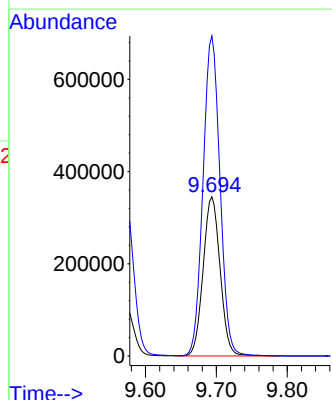
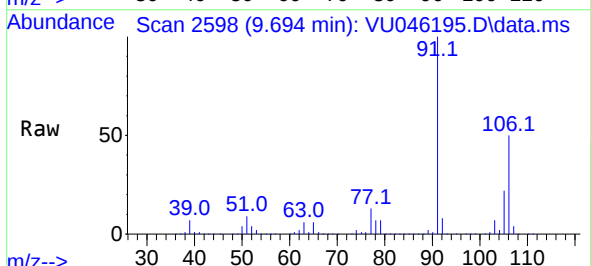
Instrument :
MSVOA_U
ClientSampleId :
EW5N7

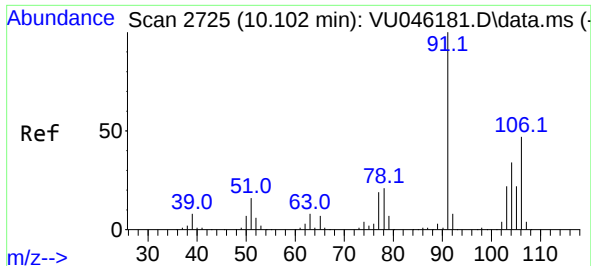
Tgt Ion: 91 Resp: 569440
Ion Ratio Lower Upper
91 100
106 31.4 21.1 39.3



#53
m,p-Xylene
Concen: 208.601 ug/L
RT: 9.694 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion: 106 Resp: 573302
Ion Ratio Lower Upper
106 100
91 201.1 144.3 268.1

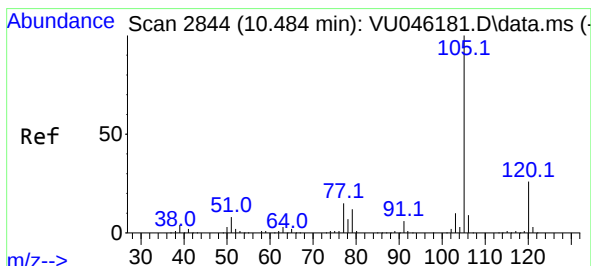
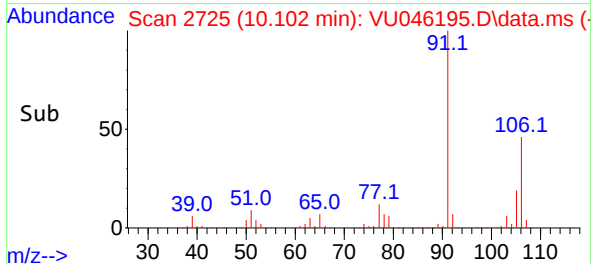
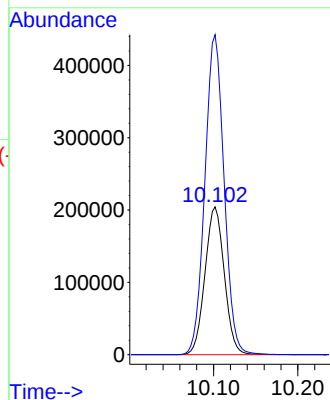
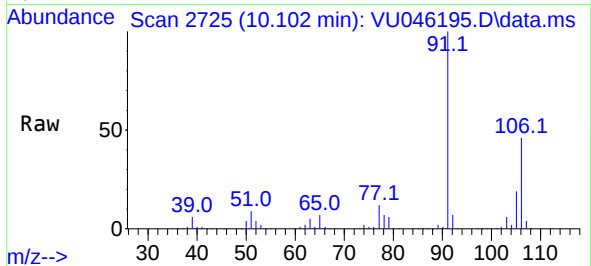




#54
o-xylene
Concen: 122.584 ug/L
RT: 10.102 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

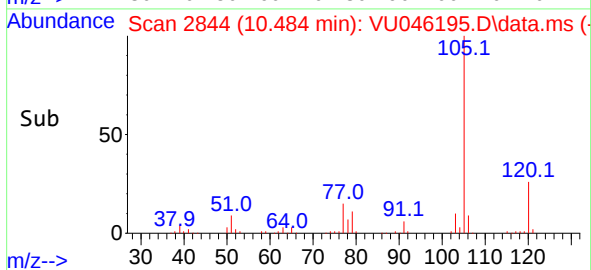
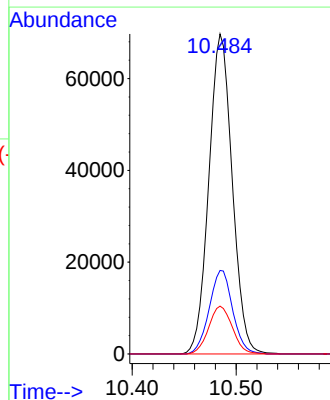
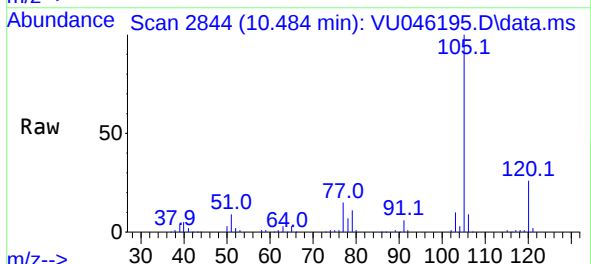
Instrument :
MSVOA_U
ClientSampleId :
EW5N7

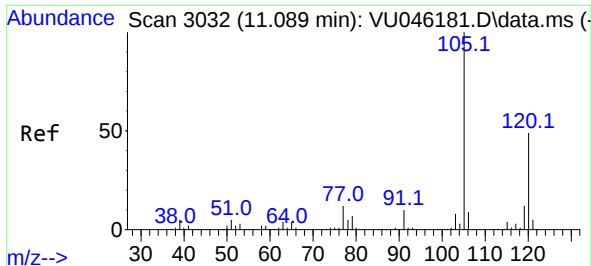
Tgt Ion:106 Resp: 326905
Ion Ratio Lower Upper
106 100
91 216.5 154.2 286.4



#61
Isopropylbenzene
Concen: 15.390 ug/L
RT: 10.484 min Scan# 2844
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion:105 Resp: 108766
Ion Ratio Lower Upper
105 100
120 26.2 20.7 31.1
77 15.2 12.2 18.4

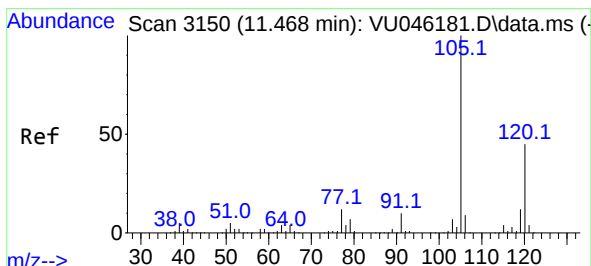
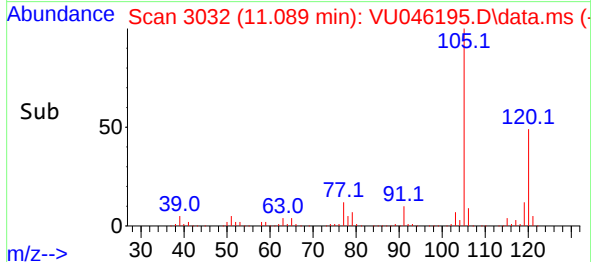
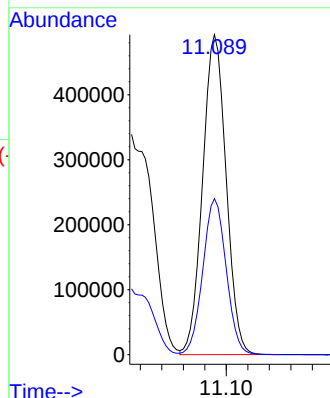
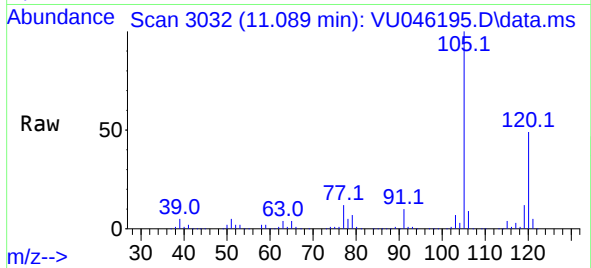




#62
1,3,5-Trimethylbenzene
Concen: 126.926 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

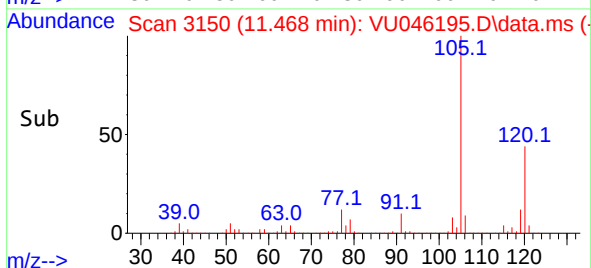
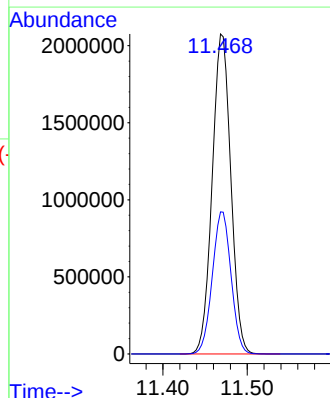
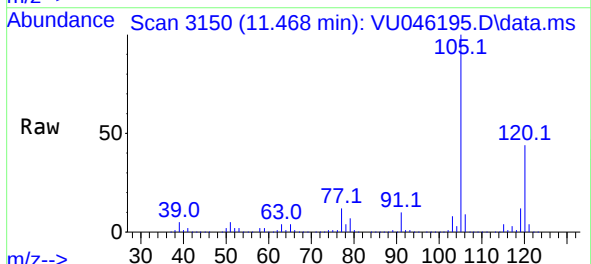
Instrument :
MSVOA_U
ClientSampleId :
EW5N7

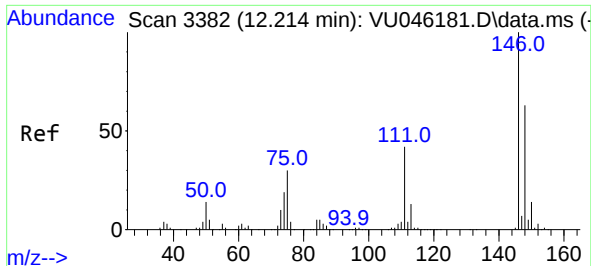
Tgt Ion:105 Resp: 747672
Ion Ratio Lower Upper
105 100
120 48.5 37.8 56.6



#63
1,2,4-Trimethylbenzene
Concen: 539.902 ug/L
RT: 11.468 min Scan# 3150
Delta R.T. -0.003 min
Lab File: VU046195.D
Acq: 08 Dec 2021 22:57

Tgt Ion:105 Resp: 3181895
Ion Ratio Lower Upper
105 100
120 44.7 35.2 52.8





#67
 1,2-Dichlorobenzene
 Concen: 2.418 ug/L
 RT: 12.214 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VU046195.D
 Acq: 08 Dec 2021 22:57

Instrument :
 MSVOA_U
 ClientSampleId :
 EW5N7

Tgt Ion:146	Resp:	8174
Ion	Ratio	Lower Upper
146	100	
111	37.2	35.7 53.5
148	66.9	51.2 76.8

