

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU071824\
 Data File : VU060032.D
 Acq On : 18 Jul 2024 21:11
 Operator : MD/SY
 Sample : P3217-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 19 01:38:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR071824WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Jul 19 01:30:22 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	132943	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	136677	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	77073	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	42662	4.612	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.200%
7) Chloroethane-d5	1.907	69	38812	4.517	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.400%
11) 1,1-Dichloroethene-d2	2.557	65	18739	5.189	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	103.800%
20) 2-Butanone-d5	4.660	46	75910	35.102	ug/L	0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	70.200%
24) Chloroform-d	5.055	84	88302	4.542	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.800%
26) 1,2-Dichloroethane-d4	5.695	65	42995	4.750	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.000%
32) Benzene-d6	5.717	84	175595	4.795	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.000%
36) 1,2-Dichloropropane-d6	6.685	67	56507	4.843	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.800%
41) Toluene-d8	7.891	98	145277	4.391	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.800%
43) trans-1,3-Dichloroprop...	8.177	79	18206	4.584	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.600%
46) 2-Hexanone-d5	8.630	63	83327	47.275	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.540%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	52181	5.024	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.400%
66) 1,2-Dichlorobenzene-d4	12.187	152	70264	5.051	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.000%

Target Compounds				Qvalue		
5) Vinyl chloride	1.599	62	5324	0.391	ug/L	90
14) Carbon disulfide	2.785	76	2841	0.096	ug/L #	81
16) Methylene chloride	3.036	84	1913	0.154	ug/L	88
22) cis-1,2-Dichloroethene	4.660	96	12180	1.030	ug/L	94
33) Benzene	5.769	78	20913	0.463	ug/L	100
35) Methylcyclohexane	6.685	83	13380	0.852	ug/L #	22
37) 1,2-Dichloropropane	6.685	63	5830	0.478	ug/L #	91
42) Toluene	7.965	91	33946	0.706	ug/L	99
45) 1,1,2-Trichloroethane	8.270	97	3675	0.394	ug/L #	17
49) Dibromochloromethane	8.547	129	1810	0.176	ug/L #	10
52) Ethylbenzene	9.566	91	17116	0.357	ug/L	100
53) m,p-Xylene	9.692	106	8371	0.452	ug/L	94
54) o-Xylene	10.093	106	14760	0.834	ug/L	99
60) Isopropylbenzene	10.991	105	39247	0.779	ug/L #	88
61) 1,2,3-Trichloropropane	11.460	75	4527	0.557	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.460	105	466582	12.114	ug/L	95
63) 1,2,4-Trimethylbenzene	11.460	105	466582	12.536	ug/L	100
64) 1,3-Dichlorobenzene	11.743	146	7049	0.260	ug/L	93
65) 1,4-Dichlorobenzene	11.833	146	24059	0.871	ug/L	98

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Jul 19 01:30:22 2024
Response via : Initial Calibration

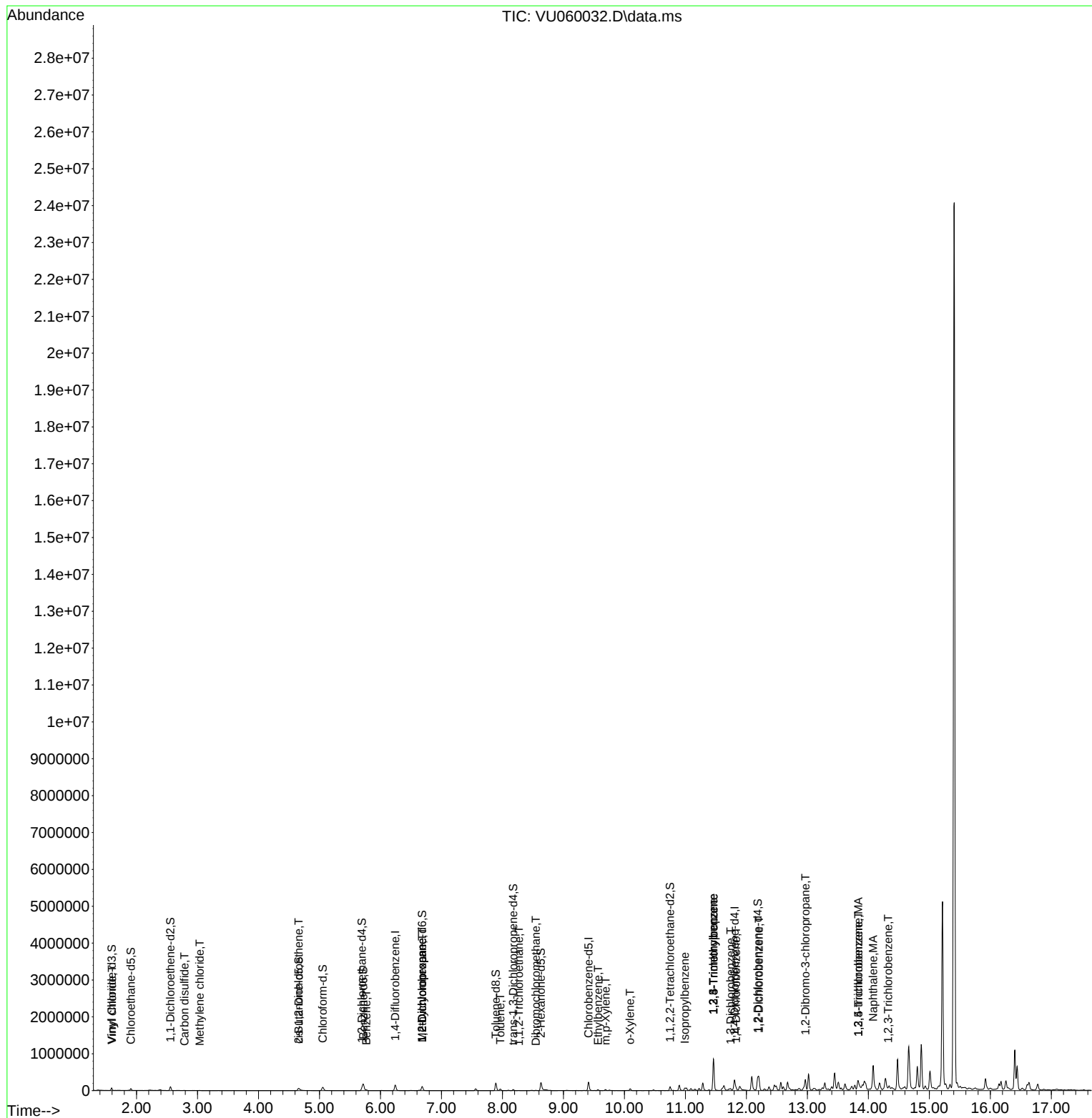
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,2-Dichlorobenzene	12.206	146	111791	4.306	ug/L	96
68) 1,2-Dibromo-3-chloropr...	12.968	75	1225	0.773	ug/L #	1
69) 1,3,5-Trichlorobenzene	13.836	180	12611	0.616	ug/L #	72
70) 1,2,4-trichlorobenzene	13.836	180	12611	0.809	ug/L #	64
71) Naphthalene	14.080	128	537438	24.345	ug/L	98
72) 1,2,3-Trichlorobenzene	14.325	180	3508	0.250	ug/L #	1

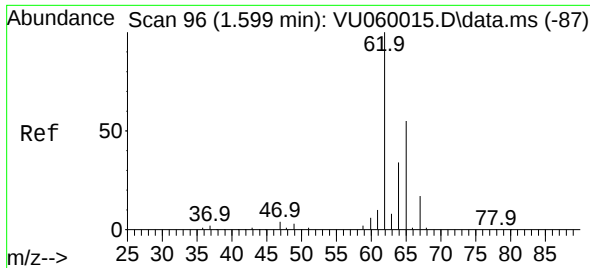
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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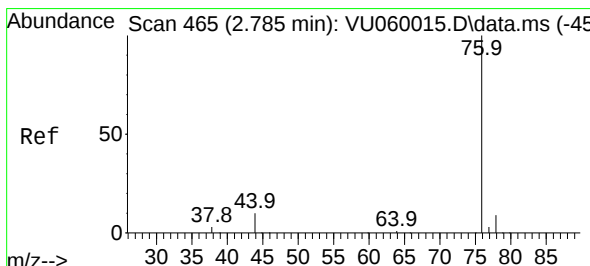
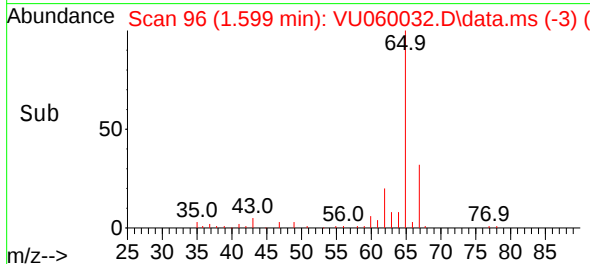
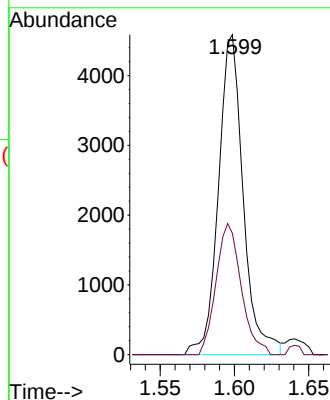
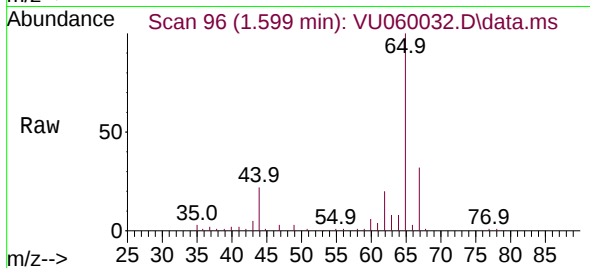




#5
 Vinyl chloride
 Concen: 0.391 ug/L
 RT: 1.599 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: VU060032.D
 Acq: 18 Jul 2024 21:11

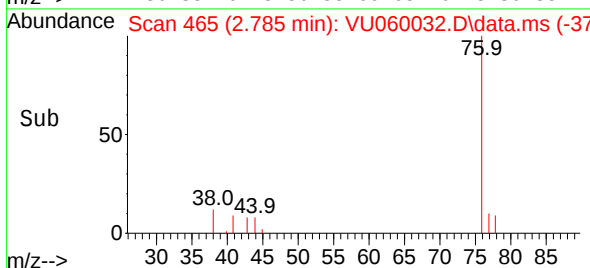
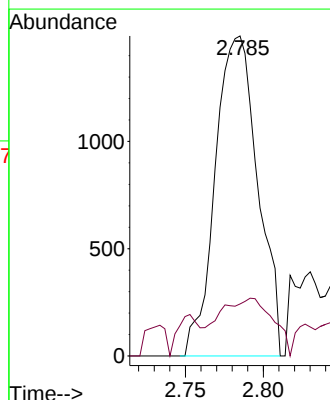
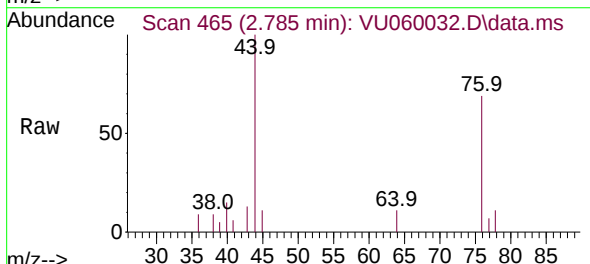
Instrument :
 MSVOA_U
 ClientSampleId :

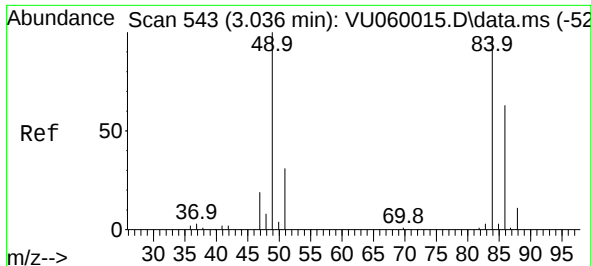
Tgt Ion: 62 Resp: 5324
 Ion Ratio Lower Upper
 62 100
 64 37.9 22.8 42.4



#14
 Carbon disulfide
 Concen: 0.096 ug/L
 RT: 2.785 min Scan# 465
 Delta R.T. -0.000 min
 Lab File: VU060032.D
 Acq: 18 Jul 2024 21:11

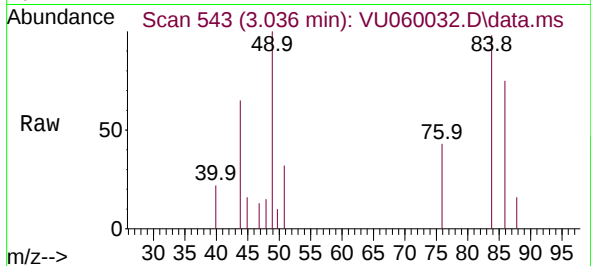
Tgt Ion: 76 Resp: 2841
 Ion Ratio Lower Upper
 76 100
 78 16.2 7.4 11.0#



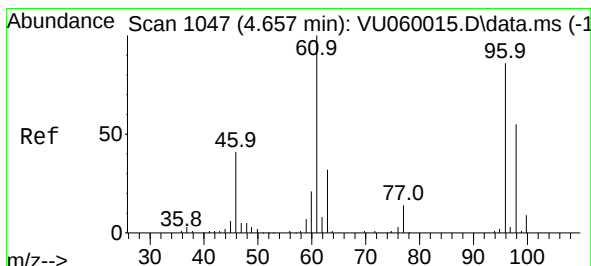
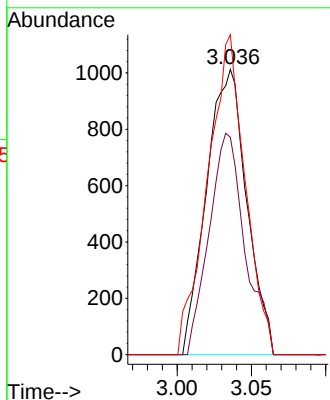
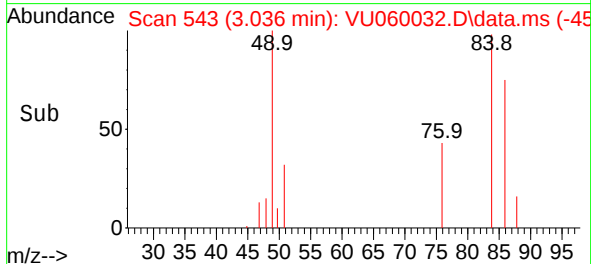


#16
Methylene chloride
Concen: 0.154 ug/L
RT: 3.036 min Scan# 54
Delta R.T. -0.000 min
Lab File: VU060032.D
Acq: 18 Jul 2024 21:11

Instrument :
MSVOA_U
ClientSampleId :

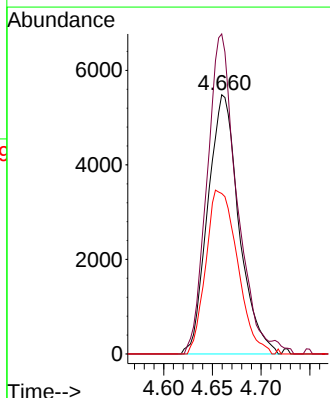
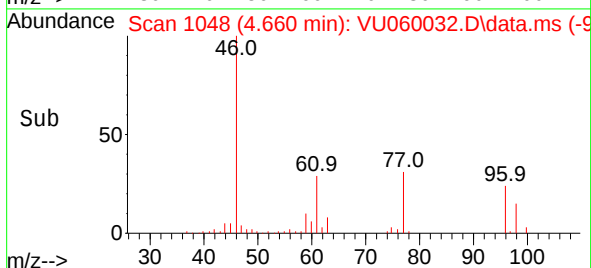
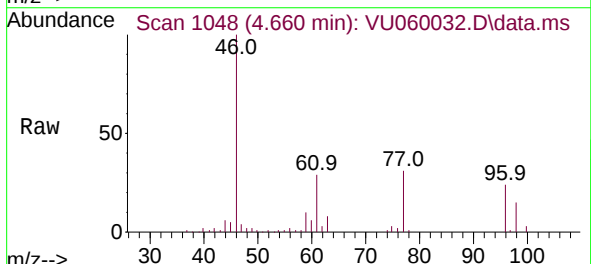


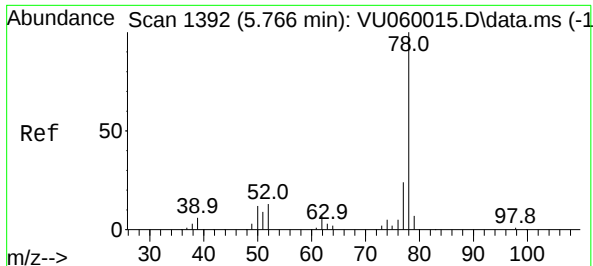
Tgt Ion: 84 Resp: 1913
Ion Ratio Lower Upper
84 100
86 76.2 44.4 82.5
49 112.1 72.0 133.6



#22
cis-1,2-Dichloroethene
Concen: 1.030 ug/L
RT: 4.660 min Scan# 1048
Delta R.T. 0.003 min
Lab File: VU060032.D
Acq: 18 Jul 2024 21:11

Tgt Ion: 96 Resp: 12180
Ion Ratio Lower Upper
96 100
61 123.4 80.2 148.9
98 61.9 44.7 83.1

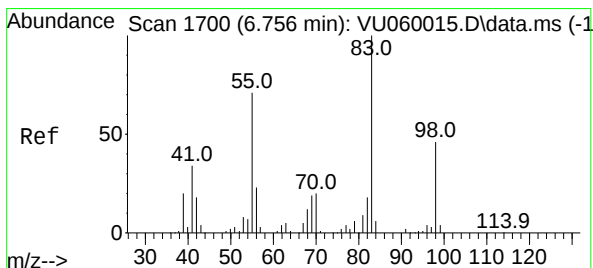
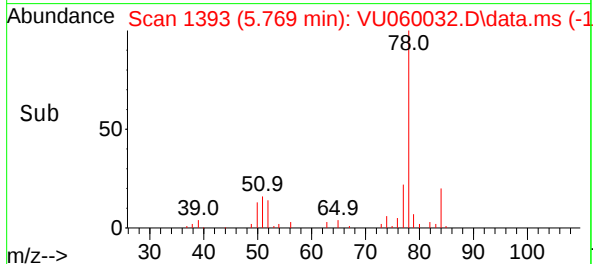
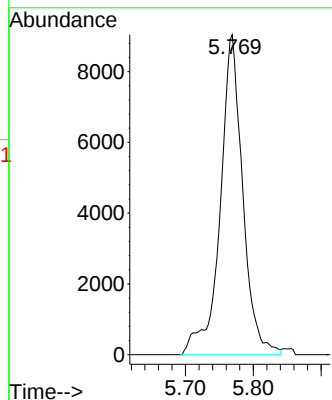
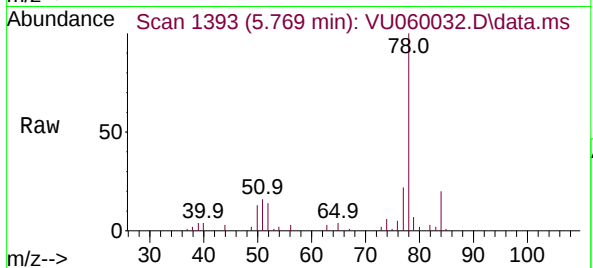




#33
Benzene
Concen: 0.463 ug/L
RT: 5.769 min Scan# 14
Delta R.T. 0.003 min
Lab File: VU060032.D
Acq: 18 Jul 2024 21:11

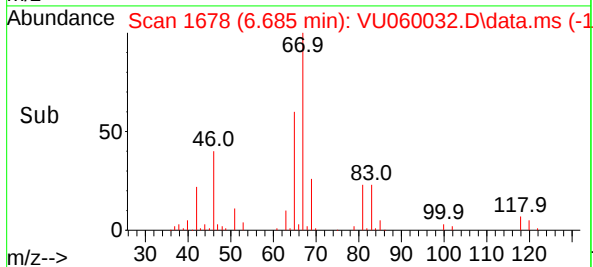
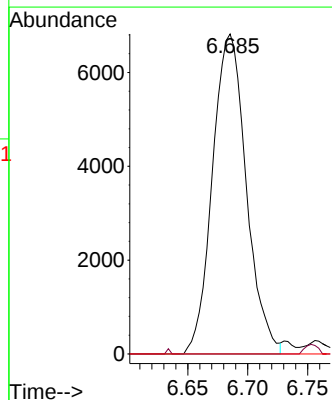
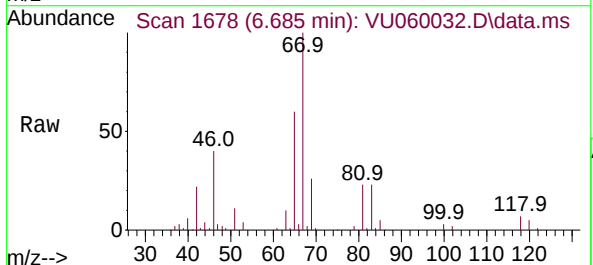
Instrument :
MSVOA_U
ClientSampleId :

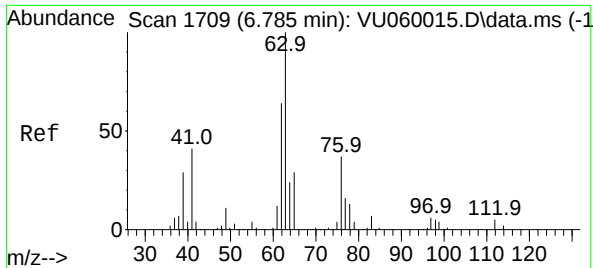
Tgt Ion: 78 Resp: 20913



#35
Methylcyclohexane
Concen: 0.852 ug/L
RT: 6.685 min Scan# 1678
Delta R.T. -0.071 min
Lab File: VU060032.D
Acq: 18 Jul 2024 21:11

Tgt Ion: 83 Resp: 13380
Ion Ratio Lower Upper
83 100
55 1.1 56.7 85.1#
98 1.1 36.6 55.0#

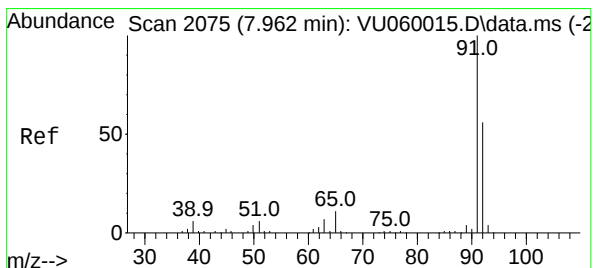
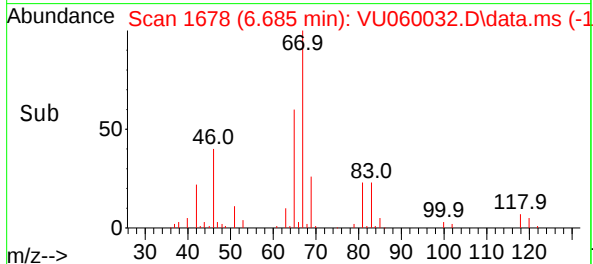
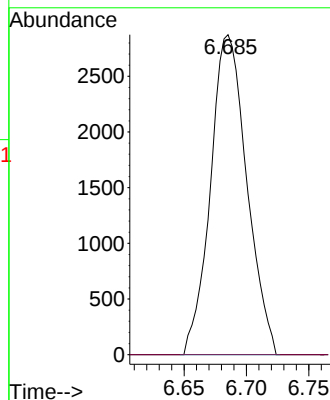
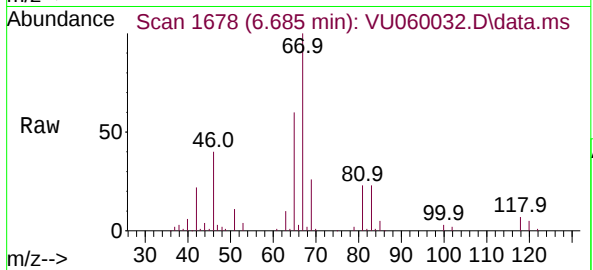




#37
1,2-Dichloropropane
Concen: 0.478 ug/L
RT: 6.685 min Scan# 1
Delta R.T. -0.100 min
Lab File: VU060032.D
Acq: 18 Jul 2024 21:11

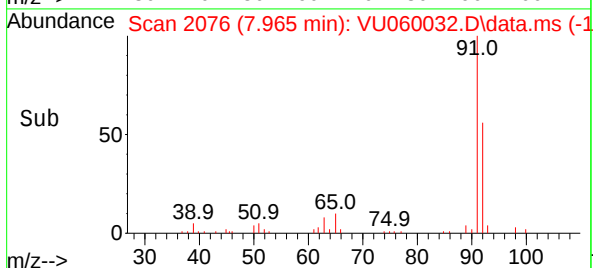
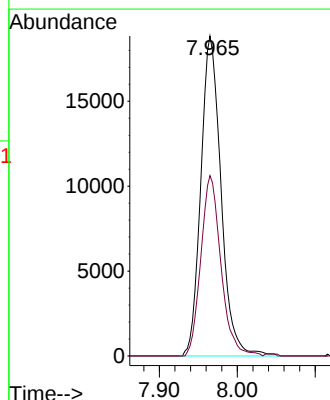
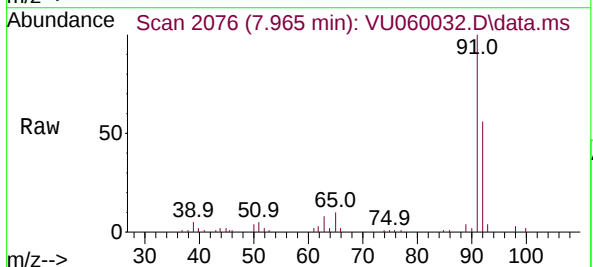
Instrument :
MSVOA_U
ClientSampleId :

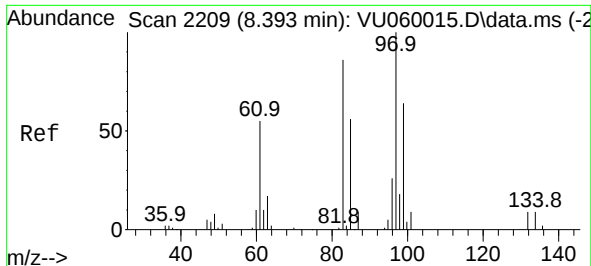
Tgt Ion: 63 Resp: 5830
Ion Ratio Lower Upper
63 100
112 1.2 3.3 4.9#



#42
Toluene
Concen: 0.706 ug/L
RT: 7.965 min Scan# 2076
Delta R.T. 0.003 min
Lab File: VU060032.D
Acq: 18 Jul 2024 21:11

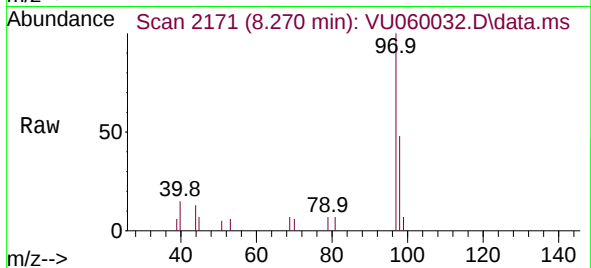
Tgt Ion: 91 Resp: 33946
Ion Ratio Lower Upper
91 100
92 56.3 39.8 73.8



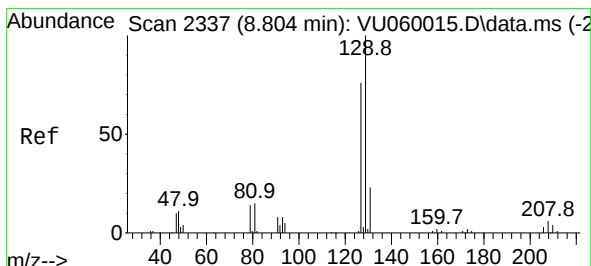
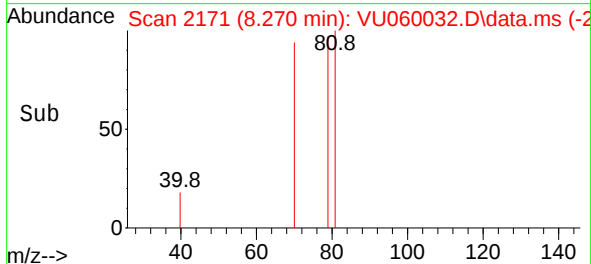
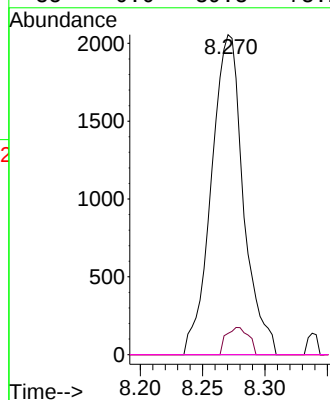


#45
1,1,2-Trichloroethane
Concen: 0.394 ug/L
RT: 8.270 min Scan# 2171
Delta R.T. -0.122 min
Lab File: VU060032.D
Acq: 18 Jul 2024 21:11

Instrument :
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ClientSampleId :

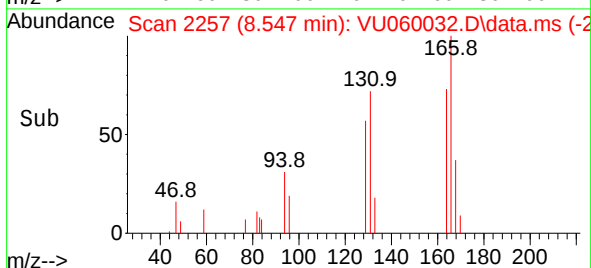
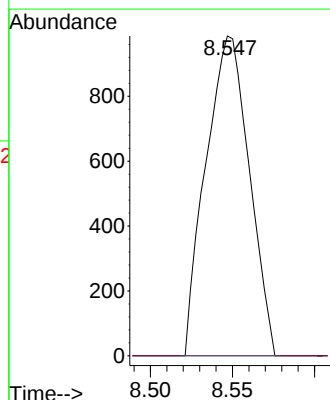
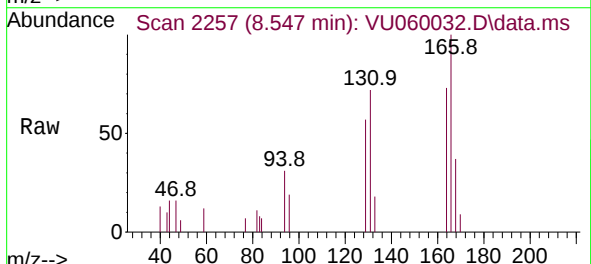


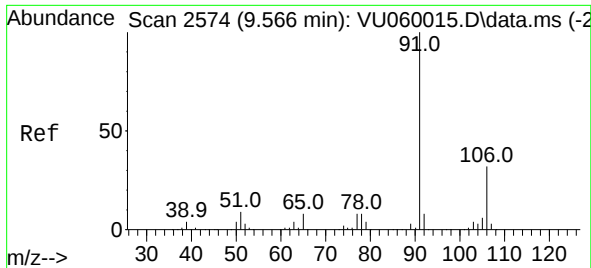
Tgt Ion	Ratio	Lower	Upper
97	100		
99	6.6	43.8	81.4#
83	0.0	62.1	115.3#
85	0.0	39.3	73.1#



#49
Dibromochloromethane
Concen: 0.176 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. -0.257 min
Lab File: VU060032.D
Acq: 18 Jul 2024 21:11

Tgt Ion	Ratio	Lower	Upper
129	100		
127	0.0	54.6	101.4#

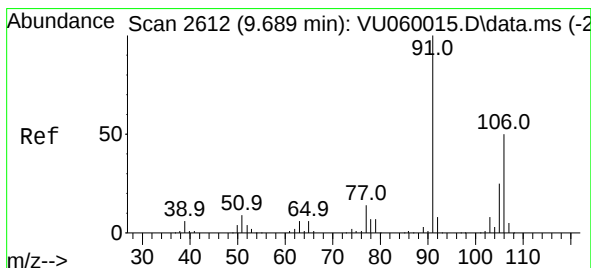
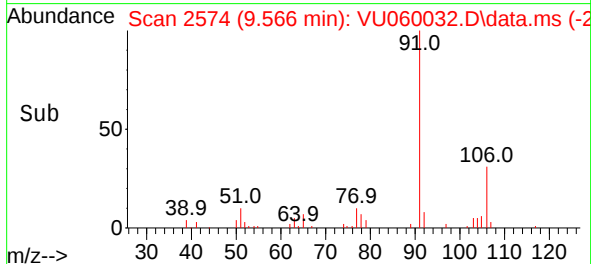
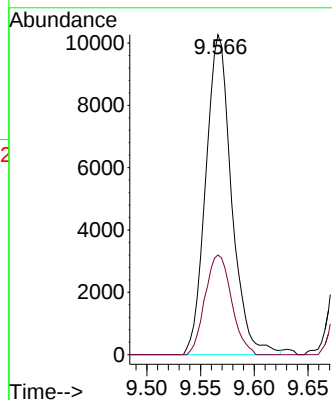
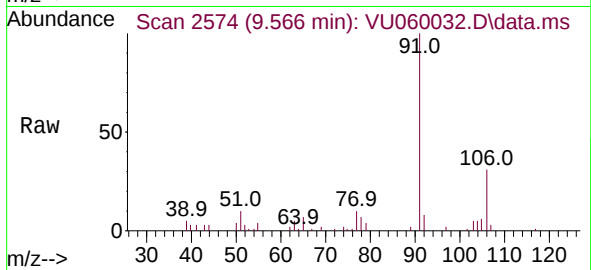




#52
Ethylbenzene
Concen: 0.357 ug/L
RT: 9.566 min Scan# 2574
Delta R.T. -0.000 min
Lab File: VU060032.D
Acq: 18 Jul 2024 21:11

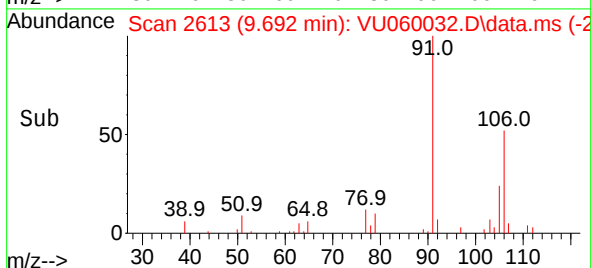
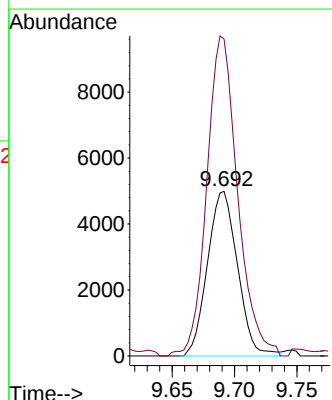
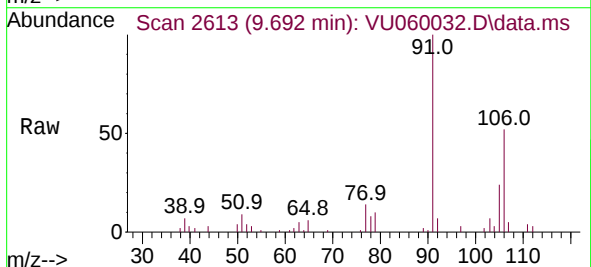
Instrument :
MSVOA_U
ClientSampleId :

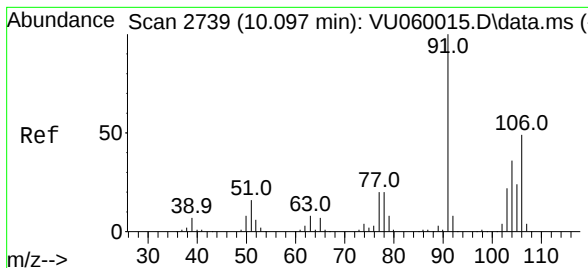
Tgt Ion: 91 Resp: 17116
Ion Ratio Lower Upper
91 100
106 31.1 21.9 40.7



#53
m,p-Xylene
Concen: 0.452 ug/L
RT: 9.692 min Scan# 2613
Delta R.T. 0.003 min
Lab File: VU060032.D
Acq: 18 Jul 2024 21:11

Tgt Ion:106 Resp: 8371
Ion Ratio Lower Upper
106 100
91 192.5 141.3 262.5





#54

o-Xylene

Concen: 0.834 ug/L

RT: 10.093 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU060032.D

Acq: 18 Jul 2024 21:11

Instrument :

MSVOA_U

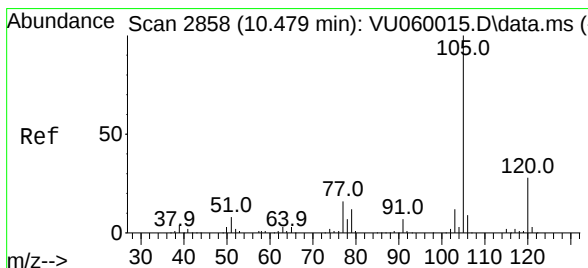
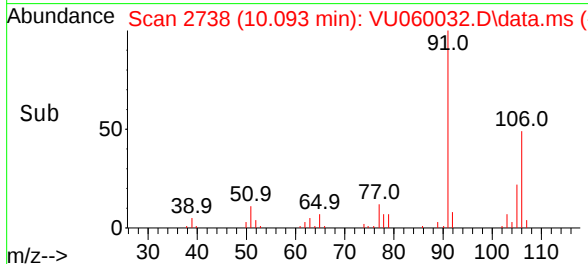
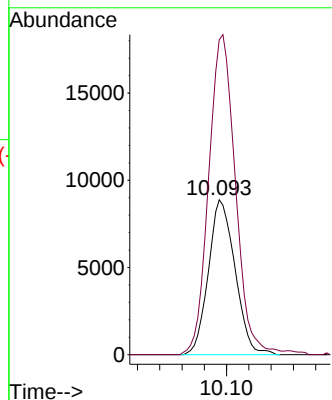
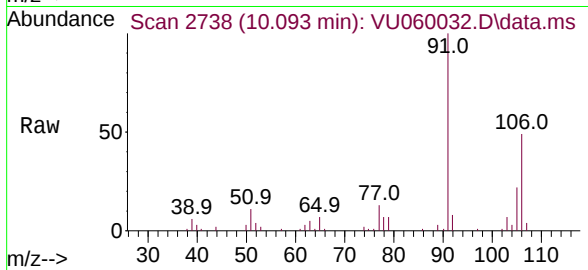
ClientSampleId :

Tgt Ion:106 Resp: 14760

Ion Ratio Lower Upper

106 100

91 203.3 143.6 266.6



#60

Isopropylbenzene

Concen: 0.779 ug/L

RT: 10.991 min Scan# 3017

Delta R.T. 0.511 min

Lab File: VU060032.D

Acq: 18 Jul 2024 21:11

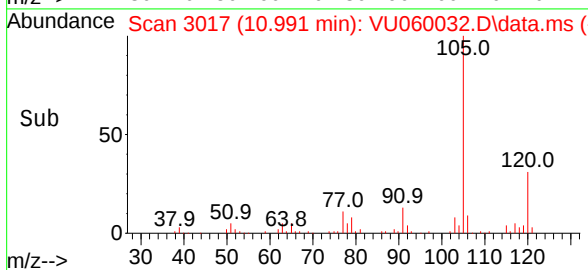
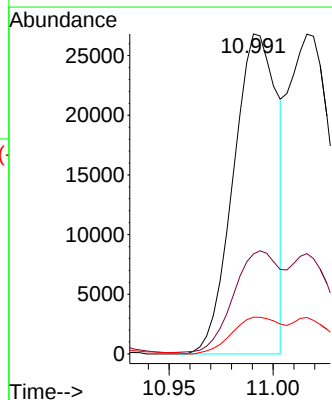
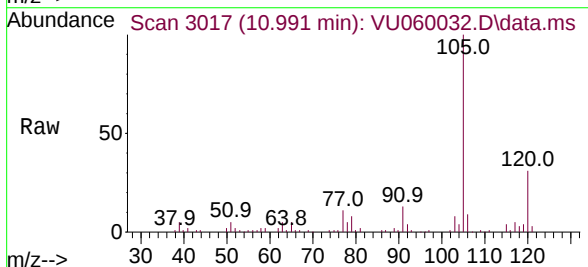
Tgt Ion:105 Resp: 39247

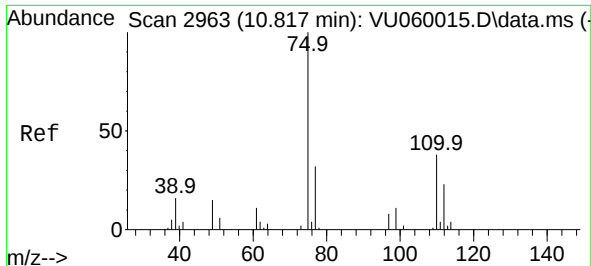
Ion Ratio Lower Upper

105 100

120 35.8 21.9 32.9#

77 13.2 12.1 18.1

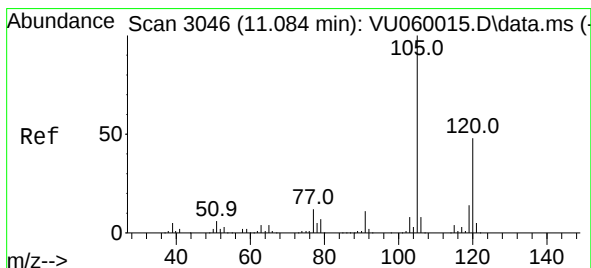
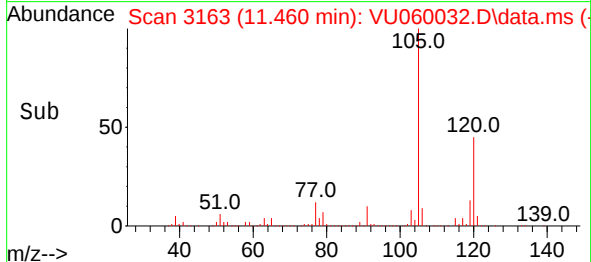
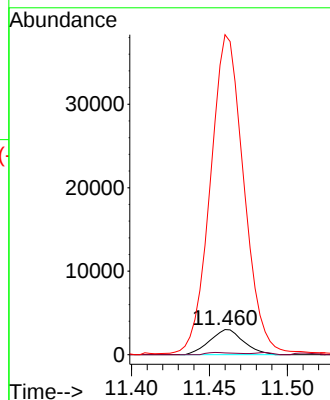
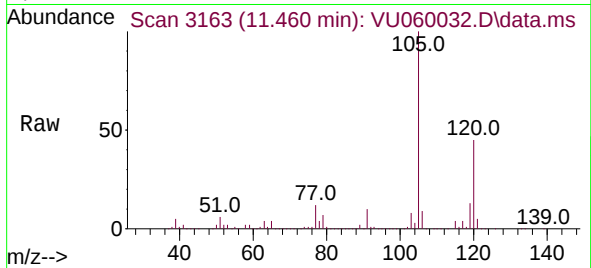




#61
1,2,3-Trichloropropane
Concen: 0.557 ug/L
RT: 11.460 min Scan# 3163
Delta R.T. 0.643 min
Lab File: VU060032.D
Acq: 18 Jul 2024 21:11

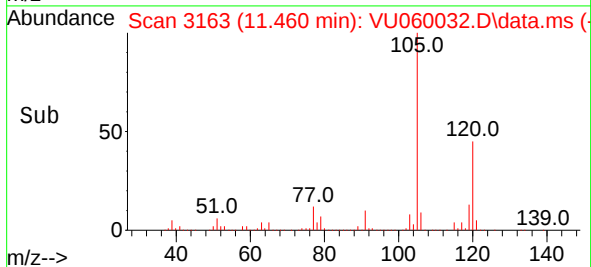
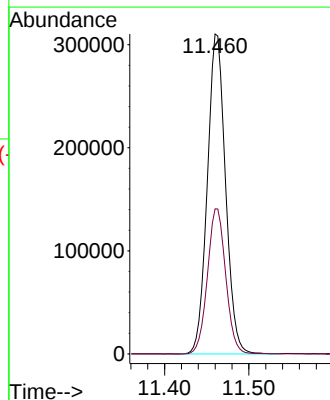
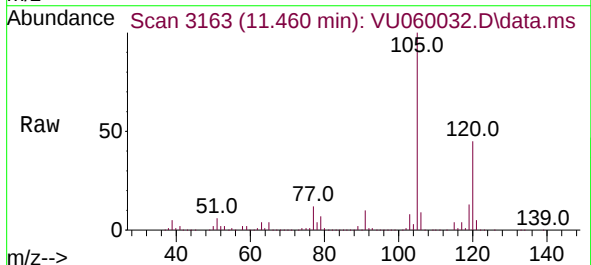
Instrument :
MSVOA_U
ClientSampleId :

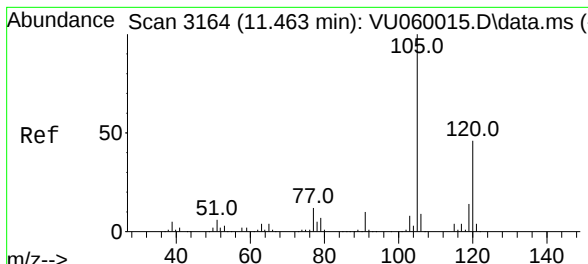
Tgt Ion: 75 Resp: 4527
Ion Ratio Lower Upper
75 100
110 8.2 30.8 46.2#
77 1263.2 26.2 39.2#



#62
1,3,5-Trimethylbenzene
Concen: 12.114 ug/L
RT: 11.460 min Scan# 3163
Delta R.T. 0.376 min
Lab File: VU060032.D
Acq: 18 Jul 2024 21:11

Tgt Ion:105 Resp: 466582
Ion Ratio Lower Upper
105 100
120 45.7 39.4 59.2



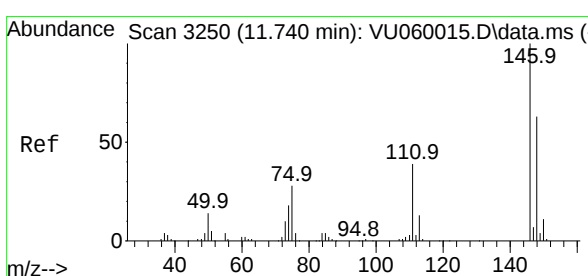
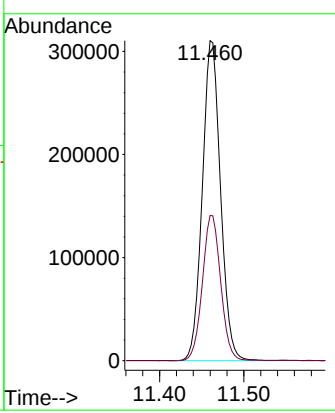
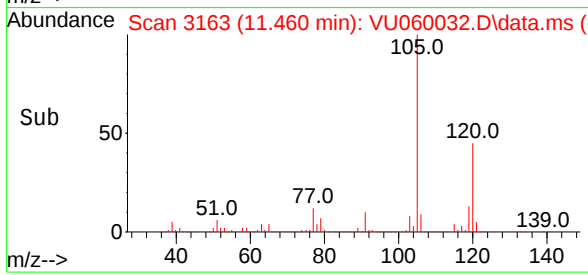
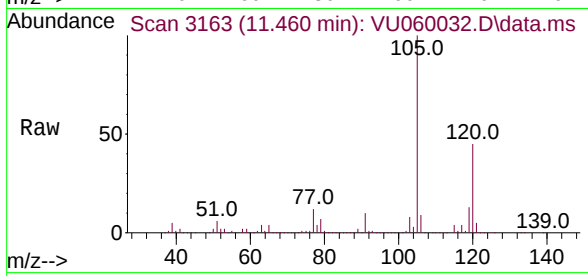


#63
 1,2,4-Trimethylbenzene
 Concen: 12.536 ug/L
 RT: 11.460 min Scan# 3163
 Delta R.T. -0.003 min
 Lab File: VU060032.D
 Acq: 18 Jul 2024 21:11

Instrument :
 MSVOA_U
 ClientSampleId :

Tgt Ion:105 Resp: 466582

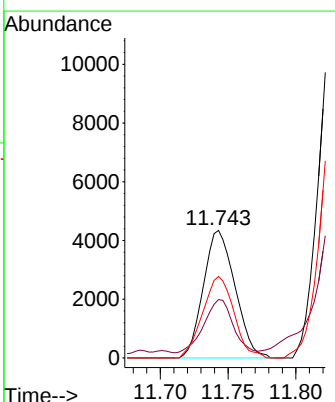
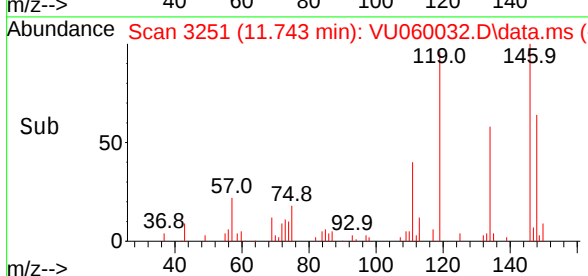
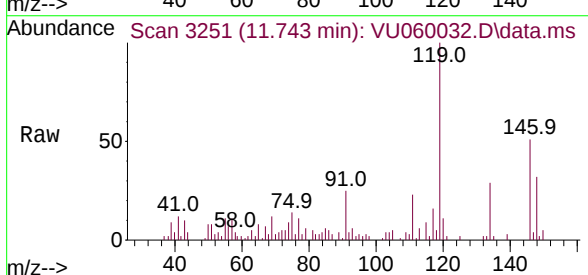
Ion	Ratio	Lower	Upper
105	100		
120	45.7	36.7	55.1

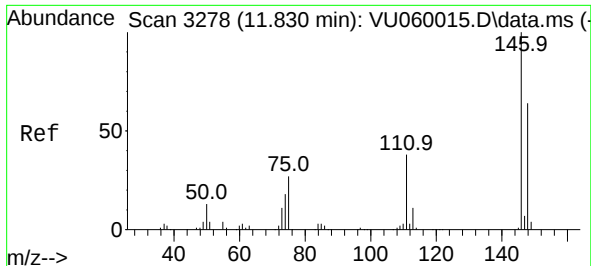


#64
 1,3-Dichlorobenzene
 Concen: 0.260 ug/L
 RT: 11.743 min Scan# 3251
 Delta R.T. 0.003 min
 Lab File: VU060032.D
 Acq: 18 Jul 2024 21:11

Tgt Ion:146 Resp: 7049

Ion	Ratio	Lower	Upper
146	100		
111	45.7	27.2	50.4
148	66.9	44.3	82.3





#65

1,4-Dichlorobenzene

Concen: 0.871 ug/L

RT: 11.833 min Scan# 3278

Delta R.T. 0.003 min

Lab File: VU060032.D

Acq: 18 Jul 2024 21:11

Instrument :

MSVOA_U

ClientSampleId :

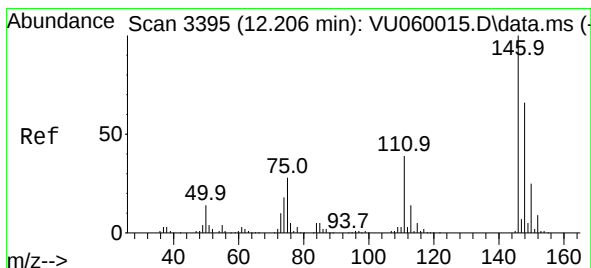
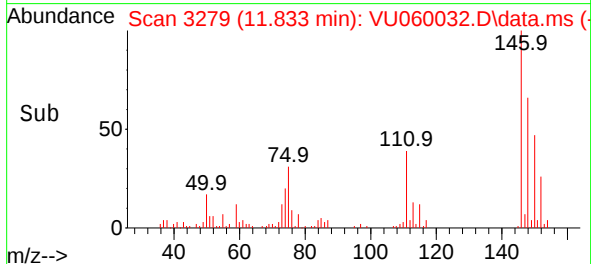
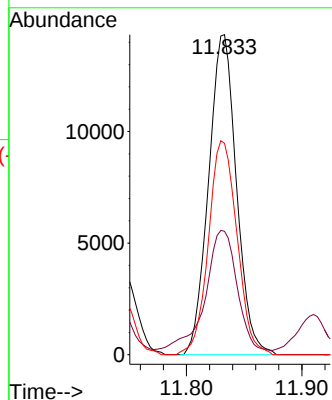
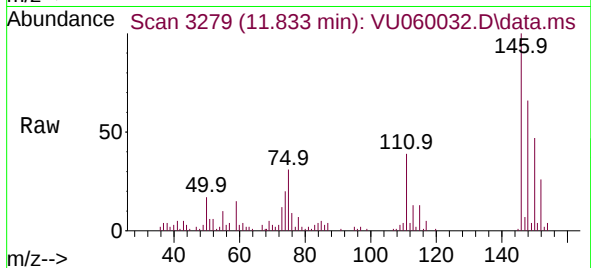
Tgt Ion:146 Resp: 24059

Ion Ratio Lower Upper

146 100

111 38.5 26.5 49.1

148 66.1 45.3 84.1



#67

1,2-Dichlorobenzene

Concen: 4.306 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. -0.000 min

Lab File: VU060032.D

Acq: 18 Jul 2024 21:11

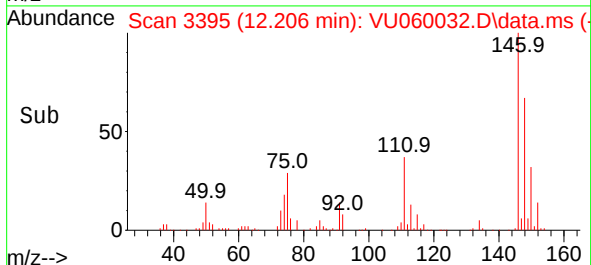
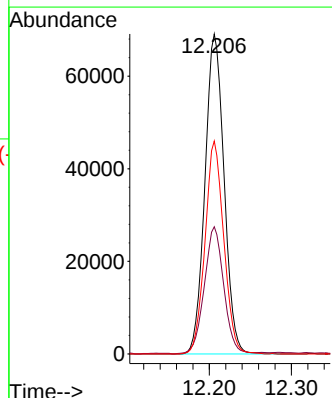
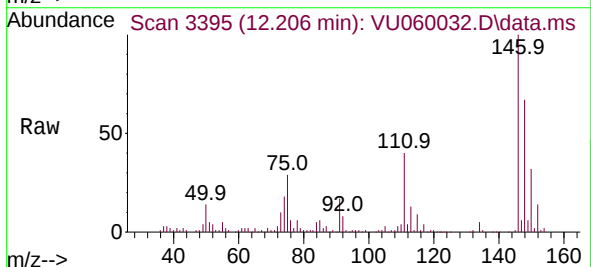
Tgt Ion:146 Resp: 111791

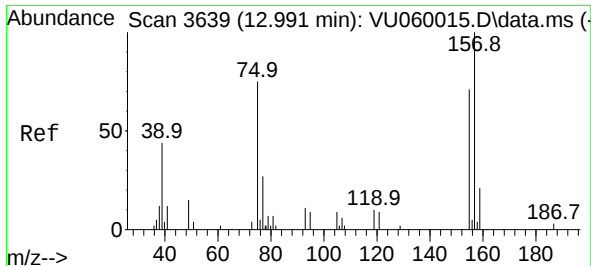
Ion Ratio Lower Upper

146 100

111 39.7 30.9 46.3

148 66.5 49.8 74.8

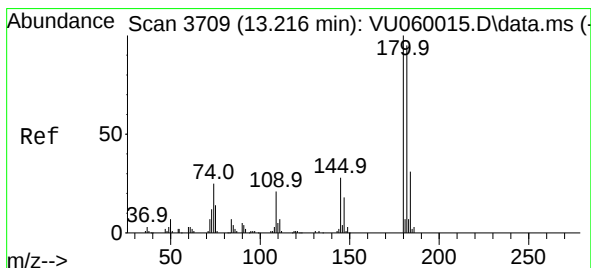
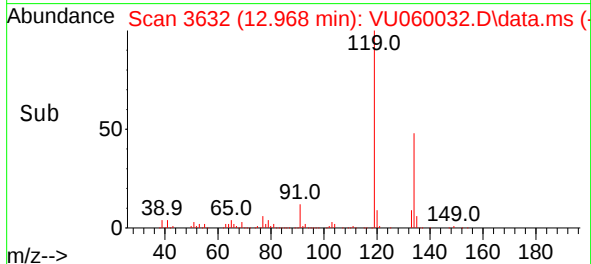
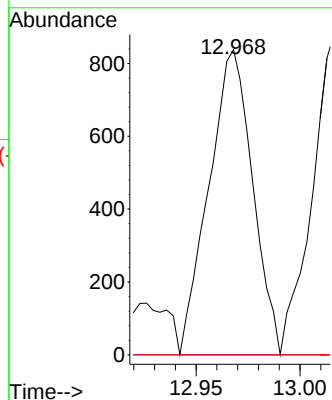
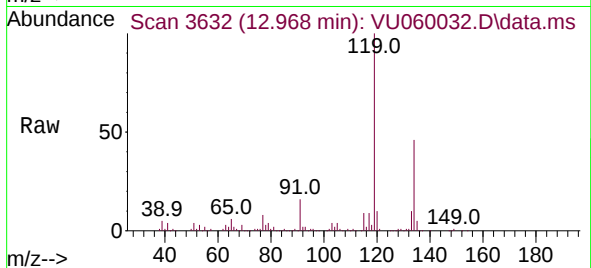




#68
1,2-Dibromo-3-chloropropane
Concen: 0.773 ug/L
RT: 12.968 min Scan# 30
Delta R.T. -0.023 min
Lab File: VU060032.D
Acq: 18 Jul 2024 21:11

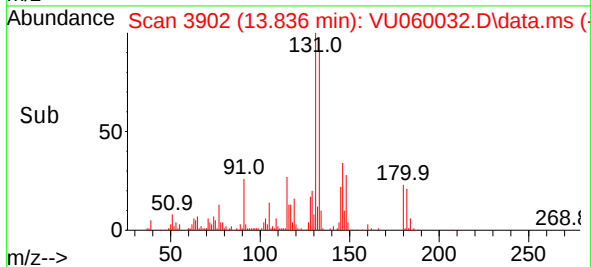
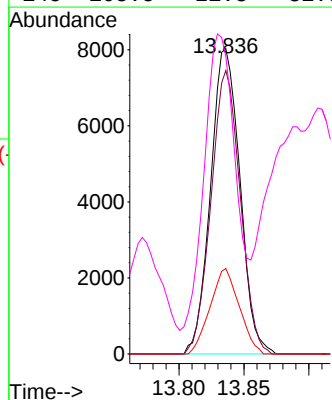
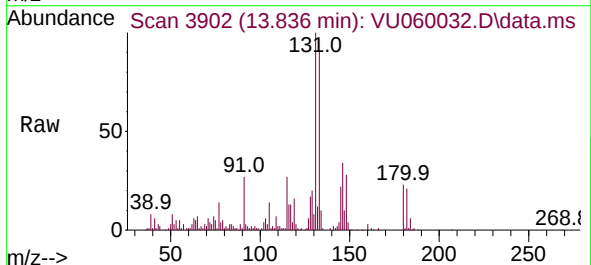
Instrument :
MSVOA_U
ClientSampleId :

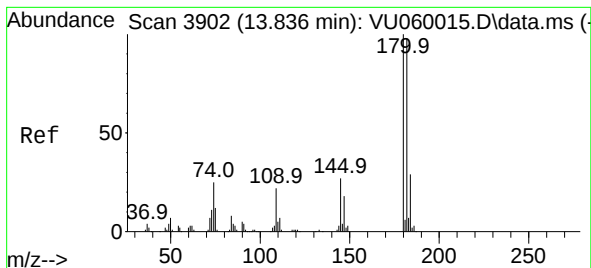
Tgt Ion: 75 Resp: 1225
Ion Ratio Lower Upper
75 100
155 0.0 70.6 105.8#
157 0.0 99.4 149.2#



#69
1,3,5-Trichlorobenzene
Concen: 0.616 ug/L
RT: 13.836 min Scan# 3902
Delta R.T. 0.620 min
Lab File: VU060032.D
Acq: 18 Jul 2024 21:11

Tgt Ion:180 Resp: 12611
Ion Ratio Lower Upper
180 100
182 92.2 74.6 111.8
184 27.7 23.1 34.7
145 103.5 21.3 31.9#





#70

1,2,4-trichlorobenzene

Concen: 0.809 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. -0.000 min

Lab File: VU060032.D

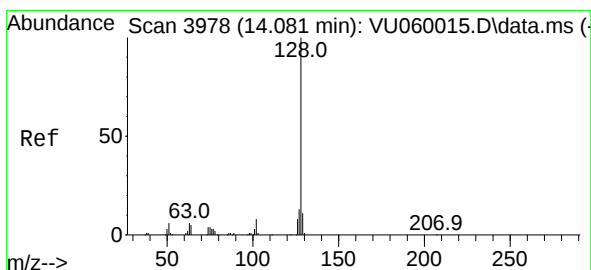
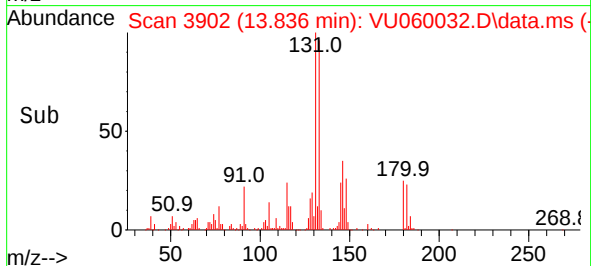
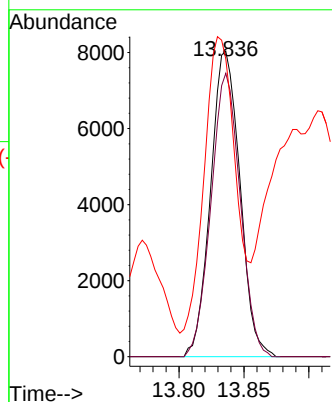
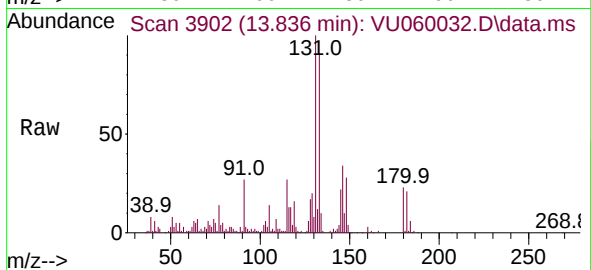
Acq: 18 Jul 2024 21:11

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:180	Resp:	12611
Ion Ratio	Lower	Upper
180	100	
182	92.2	77.2 115.8
145	103.5	23.0 34.4#



#71

Naphthalene

Concen: 24.345 ug/L

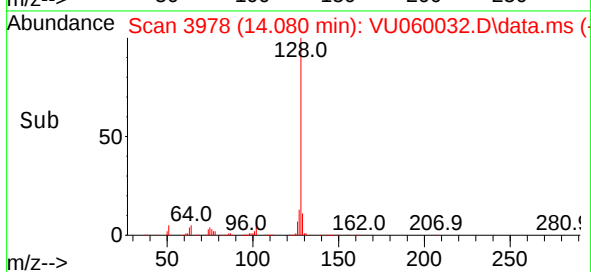
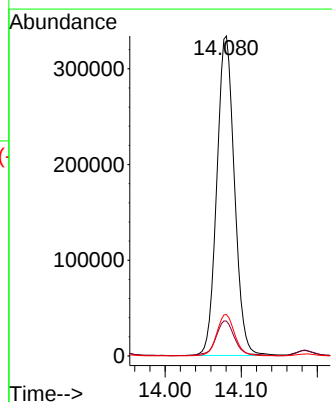
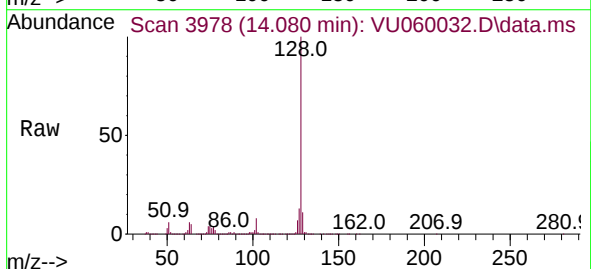
RT: 14.080 min Scan# 3978

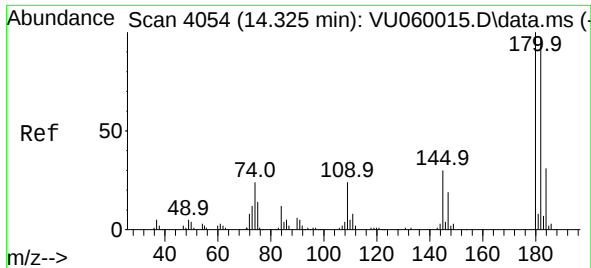
Delta R.T. -0.000 min

Lab File: VU060032.D

Acq: 18 Jul 2024 21:11

Tgt Ion:128	Resp:	537438
Ion Ratio	Lower	Upper
128	100	
129	11.9	8.2 12.4
127	13.2	10.6 16.0





#72

1,2,3-Trichlorobenzene

Concen: 0.250 ug/L

RT: 14.325 min Scan# 40

Delta R.T. -0.000 min

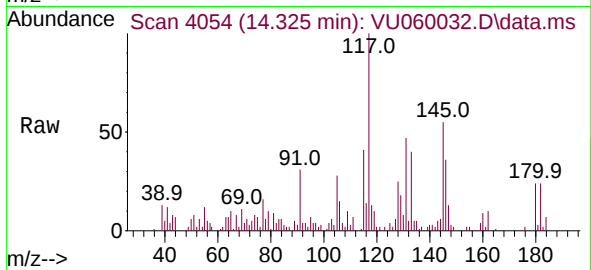
Lab File: VU060032.D

Acq: 18 Jul 2024 21:11

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 3508

Ion Ratio Lower Upper

180 100

182 96.9 76.3 114.5

145 566.0 23.9 35.9#

