

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072424\
 Data File : VU060161.D
 Acq On : 24 Jul 2024 18:15
 Operator : MD/SY
 Sample : P3244-05
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 25 05:15:35 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR071824WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Jul 25 05:11:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	143597	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	149474	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	65055	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	54989	5.504	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	110.000%
7) Chloroethane-d5	1.907	69	46872	5.050	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	101.000%
11) 1,1-Dichloroethene-d2	2.560	65	20165	5.169	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	103.400%
20) 2-Butanone-d5	4.628	46	142275	60.910	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	121.820%
24) Chloroform-d	5.055	84	99830	4.754	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.000%
26) 1,2-Dichloroethane-d4	5.695	65	50862	5.202	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.000%
32) Benzene-d6	5.721	84	200592	5.009	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.200%
36) 1,2-Dichloropropane-d6	6.682	67	67426	5.284	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.600%
41) Toluene-d8	7.894	98	165398	4.571	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.400%
43) trans-1,3-Dichloroprop...	8.177	79	20111	4.630	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.600%
46) 2-Hexanone-d5	8.627	63	95434	49.508	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.020%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	57255	5.041	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.800%
66) 1,2-Dichlorobenzene-d4	12.190	152	62704	5.340	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.599	62	482300	32.803	ug/L	100
8) Chloroethane	1.930	64	32645	3.399	ug/L	95
12) 1,1-Dichloroethene	2.573	96	19479	1.777	ug/L #	46
13) Acetone	2.647	43	10736	6.948	ug/L	91
17) Methyl tert-butyl Ether	3.358	73	97412	3.897	ug/L	95
18) trans-1,2-Dichloroethene	3.348	96	39060	3.426	ug/L	91
19) 1,1-Dichloroethane	3.859	63	509712	23.544	ug/L	99
22) cis-1,2-Dichloroethene	4.657	96	712870	55.824	ug/L	92
27) 1,2-Dichloroethane	5.798	62	3471	0.255	ug/L #	73
29) 1,1,1-Trichloroethane	5.309	97	26360	1.412	ug/L	95
30) Cyclohexane	5.377	56	3231	0.219	ug/L	91
31) Carbon tetrachloride	5.306	117	3625	0.225	ug/L	95
33) Benzene	5.769	78	63131	1.278	ug/L	100
34) Trichloroethene	6.534	95	164262	12.543	ug/L	93
35) Methylcyclohexane	6.756	83	6971	0.406	ug/L #	86
37) 1,2-Dichloropropane	6.685	63	6781	0.508	ug/L #	88
42) Toluene	7.965	91	15728	0.299	ug/L	94
51) Chlorobenzene	9.444	112	10303	0.300	ug/L	97
52) Ethylbenzene	9.566	91	30235	0.577	ug/L	97

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QLast Update : Thu Jul 25 05:11:47 2024
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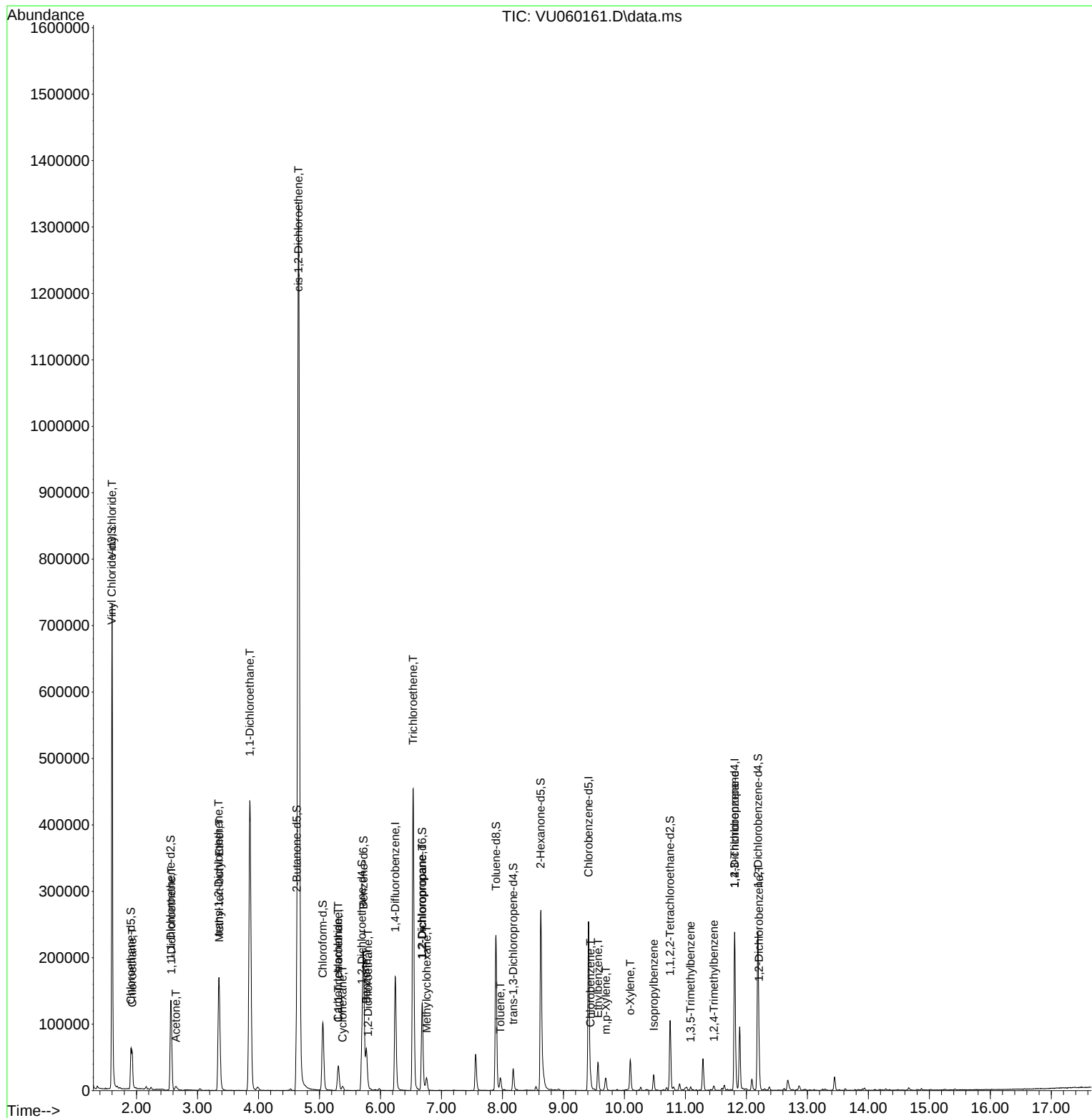
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.698	106	5460	0.270	ug/L	89
54) o-Xylene	10.097	106	13012	0.672	ug/L	99
60) Isopropylbenzene	10.483	105	15344	0.361	ug/L	96
61) 1,2,3-Trichloropropane	11.807	75	9073	1.323	ug/L #	65
62) 1,3,5-Trimethylbenzene	11.087	105	2688	0.083	ug/L	98
63) 1,2,4-Trimethylbenzene	11.470	105	3743	0.119	ug/L	97
67) 1,2-Dichlorobenzene	12.206	146	12607	0.575	ug/L	97

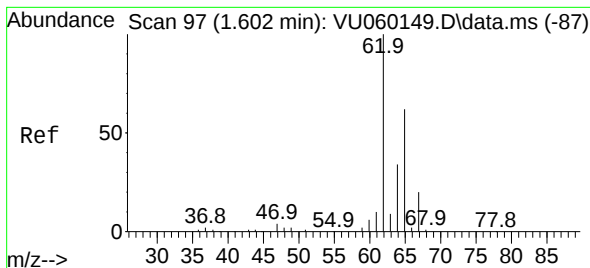
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 32.803 ug/L

RT: 1.599 min Scan# 9

Delta R.T. -0.003 min

Lab File: VU060161.D

Acq: 24 Jul 2024 18:15

Instrument :

MSVOA_U

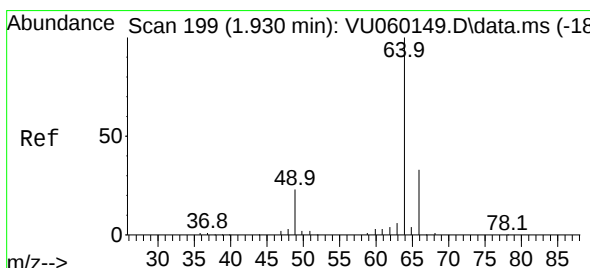
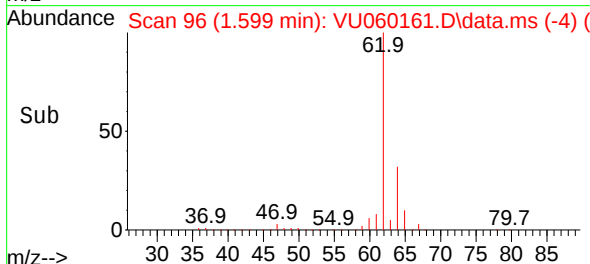
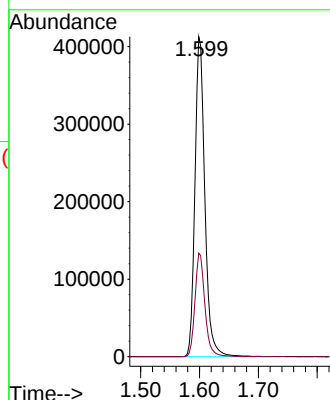
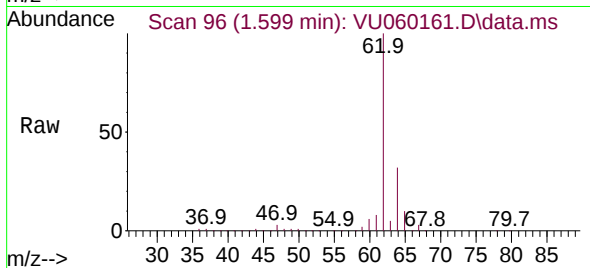
ClientSampleId :

Tgt Ion: 62 Resp: 482300

Ion Ratio Lower Upper

62 100

64 32.4 22.8 42.4



#8

Chloroethane

Concen: 3.399 ug/L

RT: 1.930 min Scan# 199

Delta R.T. 0.000 min

Lab File: VU060161.D

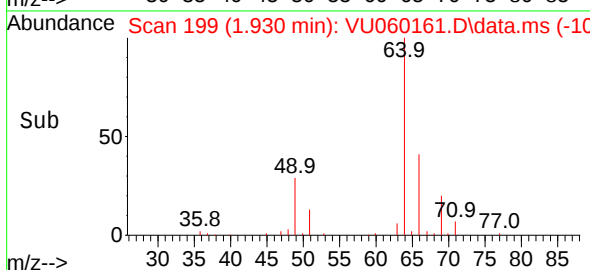
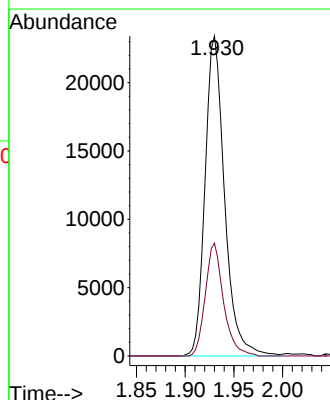
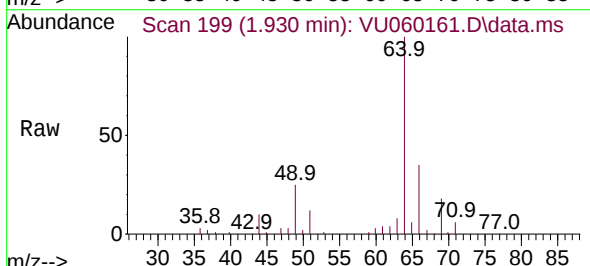
Acq: 24 Jul 2024 18:15

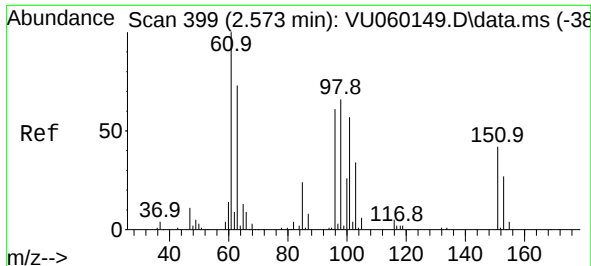
Tgt Ion: 64 Resp: 32645

Ion Ratio Lower Upper

64 100

66 35.2 22.8 42.4





#12

1,1-Dichloroethene

Concen: 1.777 ug/L

RT: 2.573 min Scan# 399

Delta R.T. 0.000 min

Lab File: VU060161.D

Acq: 24 Jul 2024 18:15

Instrument :

MSVOA_U

ClientSampleId :

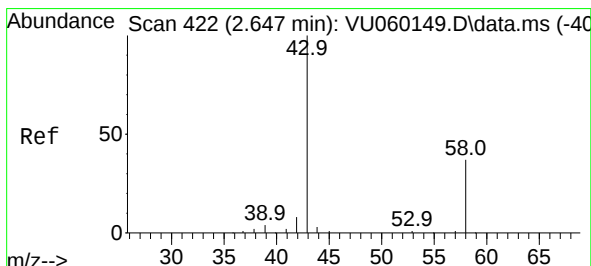
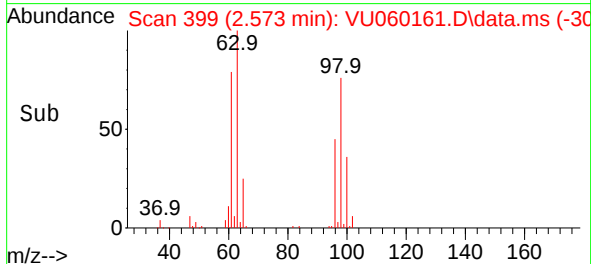
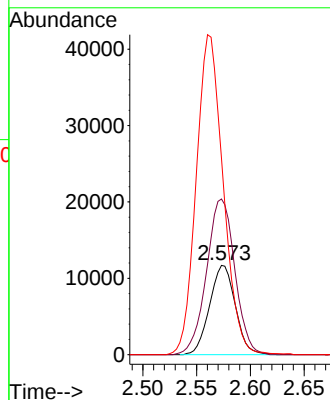
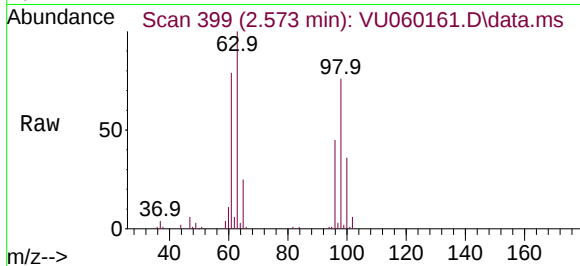
Tgt Ion: 96 Resp: 19479

Ion Ratio Lower Upper

96 100

61 174.3 107.0 198.6

63 219.9 76.4 142.0#



#13

Acetone

Concen: 6.948 ug/L

RT: 2.647 min Scan# 422

Delta R.T. 0.000 min

Lab File: VU060161.D

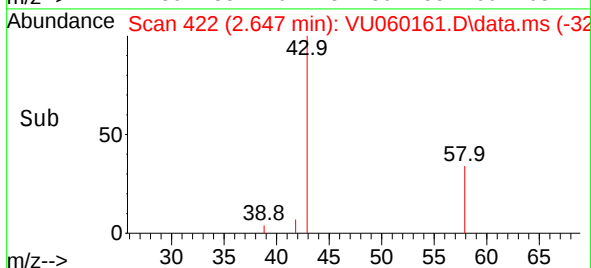
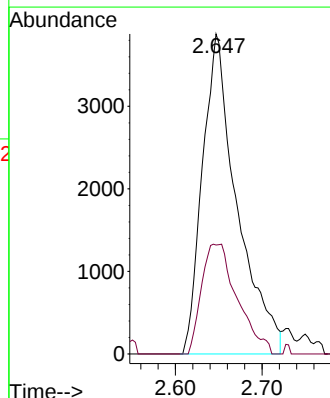
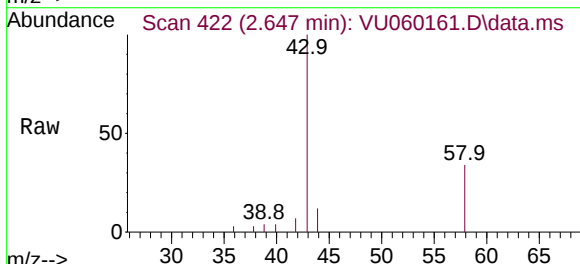
Acq: 24 Jul 2024 18:15

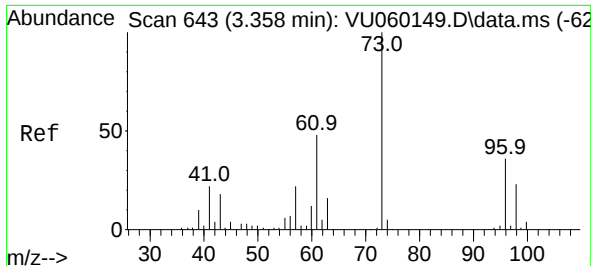
Tgt Ion: 43 Resp: 10736

Ion Ratio Lower Upper

43 100

58 35.5 0.0 82.2





#17

Methyl tert-butyl Ether

Concen: 3.897 ug/L

RT: 3.358 min Scan# 643

Delta R.T. 0.000 min

Lab File: VU060161.D

Acq: 24 Jul 2024 18:15

Instrument :

MSVOA_U

ClientSampleId :

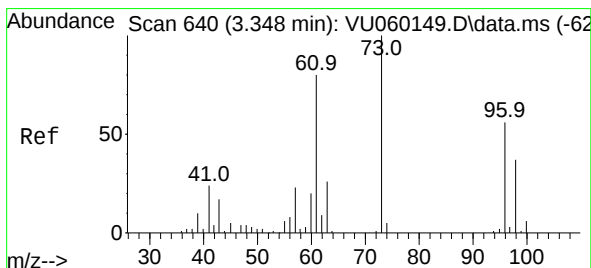
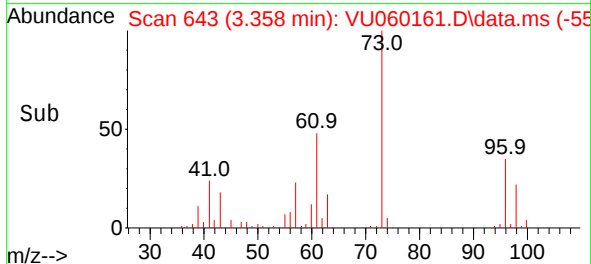
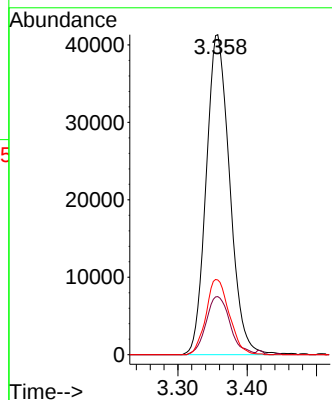
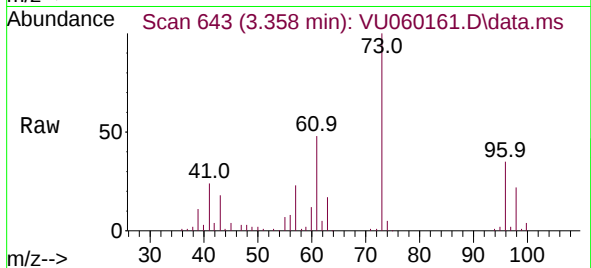
Tgt Ion: 73 Resp: 97412

Ion Ratio Lower Upper

73 100

43 18.6 13.1 19.7

57 23.3 17.0 25.4



#18

trans-1,2-Dichloroethene

Concen: 3.426 ug/L

RT: 3.348 min Scan# 640

Delta R.T. 0.000 min

Lab File: VU060161.D

Acq: 24 Jul 2024 18:15

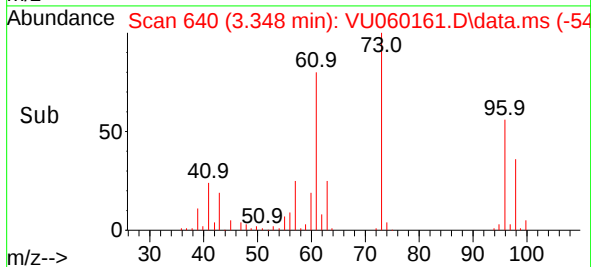
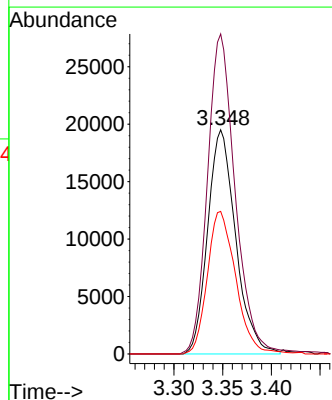
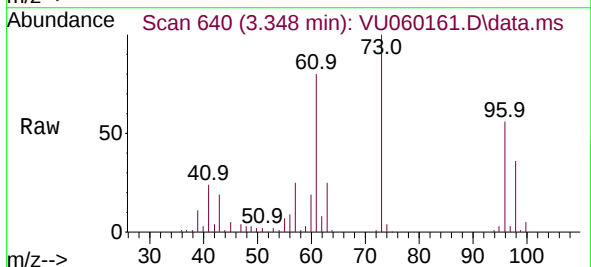
Tgt Ion: 96 Resp: 39060

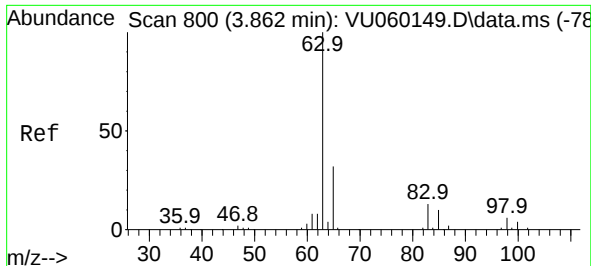
Ion Ratio Lower Upper

96 100

61 142.8 91.6 170.0

98 63.6 47.7 88.5

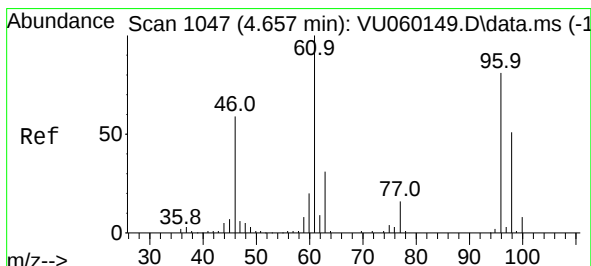
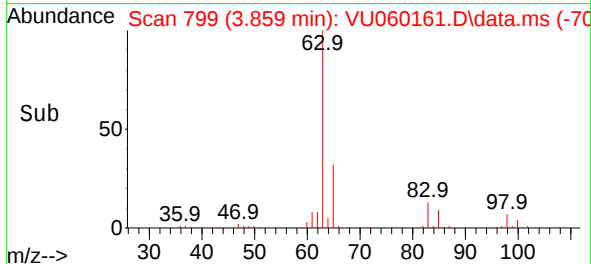
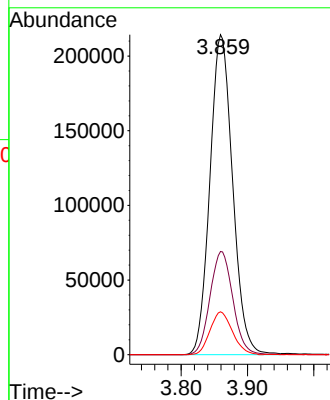
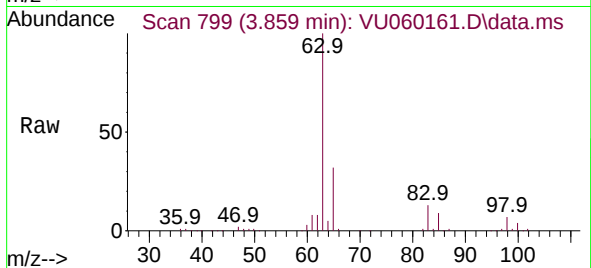




#19
1,1-Dichloroethane
Concen: 23.544 ug/L
RT: 3.859 min Scan# 70
Delta R.T. -0.003 min
Lab File: VU060161.D
Acq: 24 Jul 2024 18:15

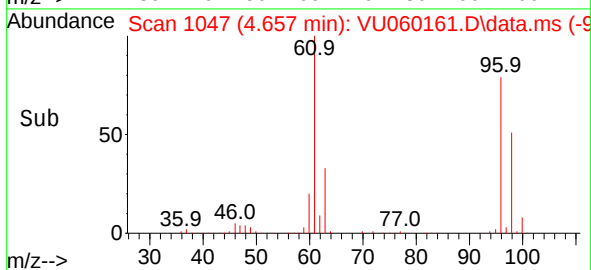
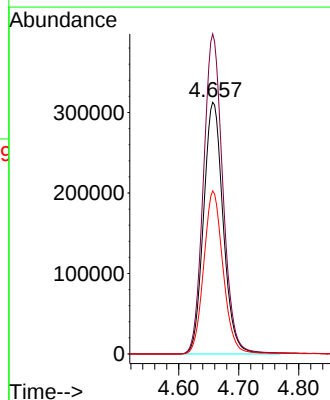
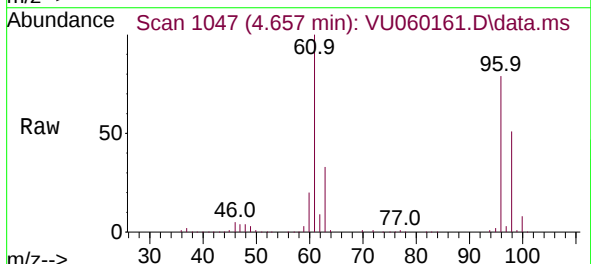
Instrument :
MSVOA_U
ClientSampleId :

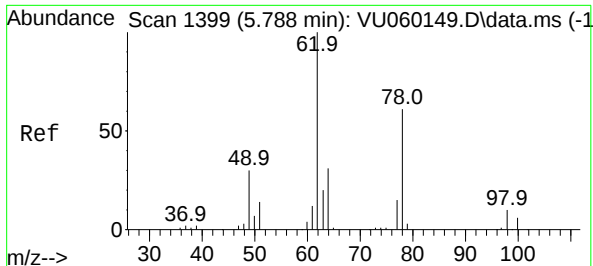
Tgt Ion: 63 Resp: 509712
Ion Ratio Lower Upper
63 100
65 32.3 22.0 40.8
83 13.4 9.7 17.9



#22
cis-1,2-Dichloroethene
Concen: 55.824 ug/L
RT: 4.657 min Scan# 1047
Delta R.T. 0.000 min
Lab File: VU060161.D
Acq: 24 Jul 2024 18:15

Tgt Ion: 96 Resp: 712870
Ion Ratio Lower Upper
96 100
61 127.1 80.2 148.9
98 64.8 44.7 83.1

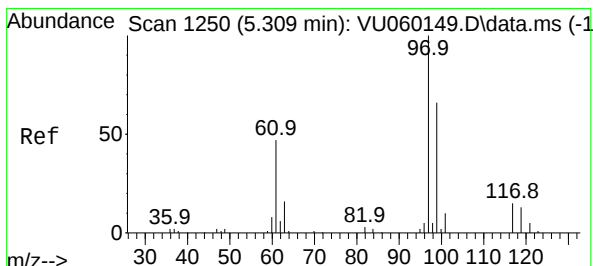
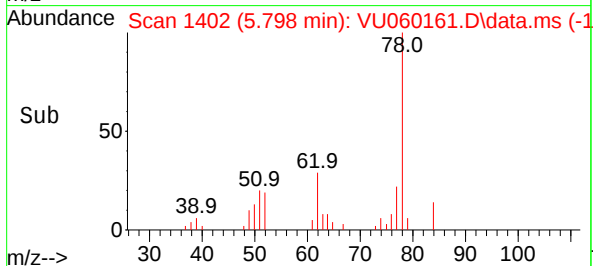
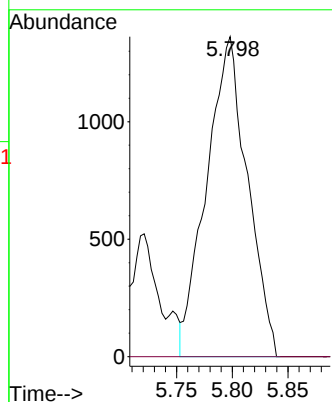
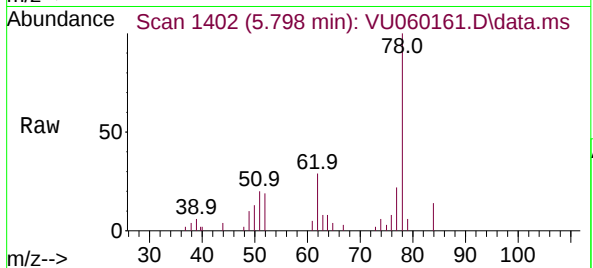




#27
1,2-Dichloroethane
Concen: 0.255 ug/L
RT: 5.798 min Scan# 1402
Delta R.T. 0.010 min
Lab File: VU060161.D
Acq: 24 Jul 2024 18:15

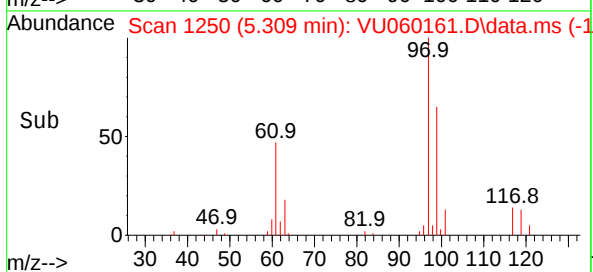
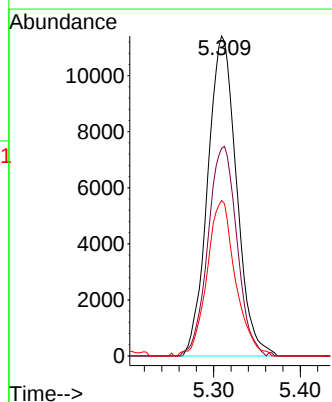
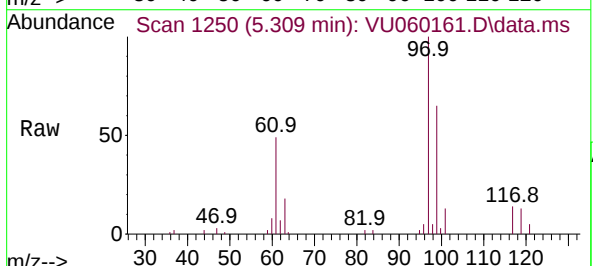
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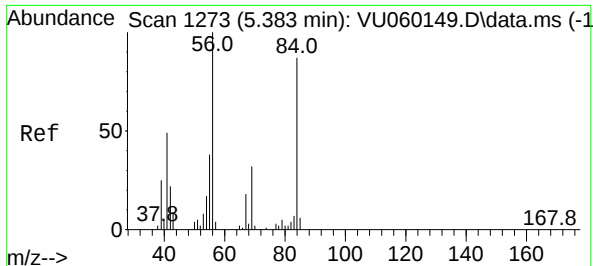
Tgt Ion: 62 Resp: 3471
Ion Ratio Lower Upper
62 100
98 0.0 7.9 11.9#



#29
1,1,1-Trichloroethane
Concen: 1.412 ug/L
RT: 5.309 min Scan# 1250
Delta R.T. 0.000 min
Lab File: VU060161.D
Acq: 24 Jul 2024 18:15

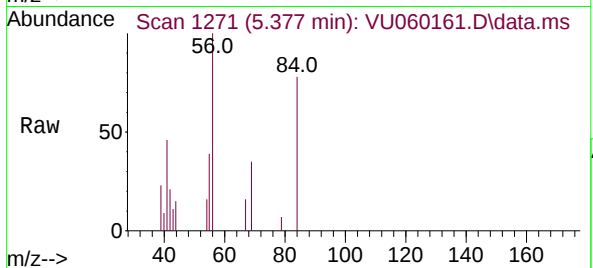
Tgt Ion: 97 Resp: 26360
Ion Ratio Lower Upper
97 100
99 65.8 51.0 76.4
61 47.8 34.1 51.1



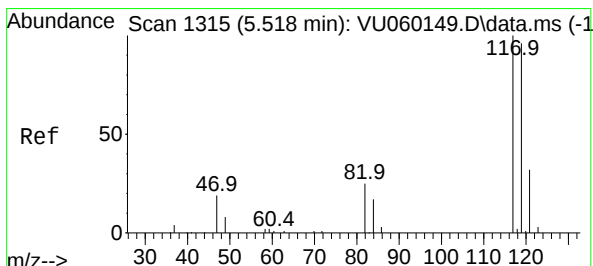
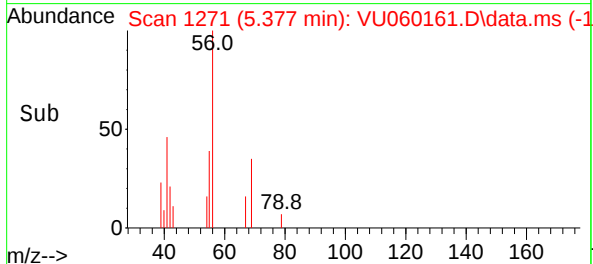
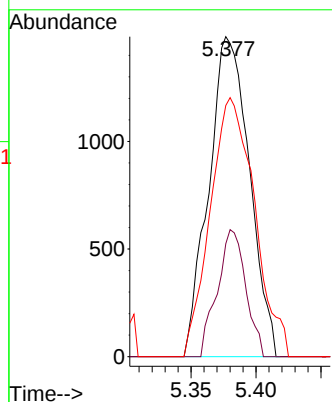


#30
Cyclohexane
Concen: 0.219 ug/L
RT: 5.377 min Scan# 1271
Delta R.T. -0.006 min
Lab File: VU060161.D
Acq: 24 Jul 2024 18:15

Instrument :
MSVOA_U
ClientSampleId :

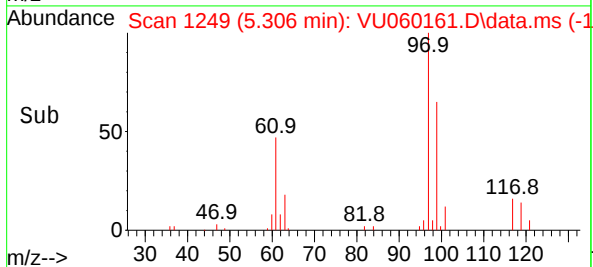
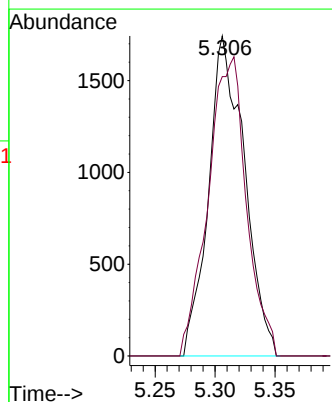
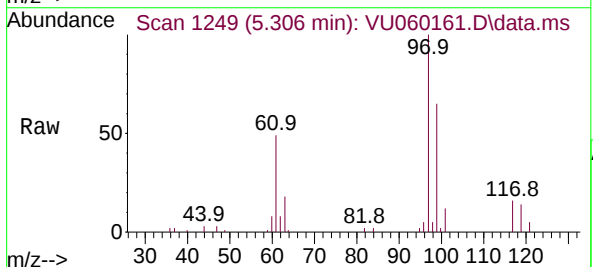


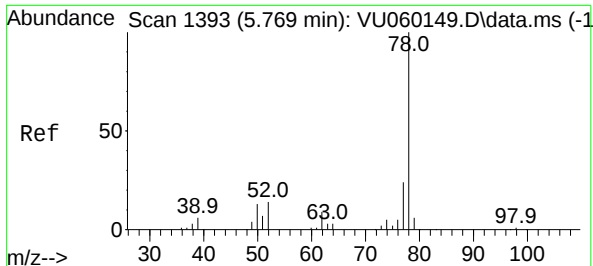
Tgt Ion: 56 Resp: 3231
Ion Ratio Lower Upper
56 100
69 27.7 26.6 39.8
84 88.2 77.2 115.8



#31
Carbon tetrachloride
Concen: 0.225 ug/L
RT: 5.306 min Scan# 1249
Delta R.T. -0.212 min
Lab File: VU060161.D
Acq: 24 Jul 2024 18:15

Tgt Ion: 117 Resp: 3625
Ion Ratio Lower Upper
117 100
119 99.6 75.6 113.4





#33

Benzene

Concen: 1.278 ug/L

RT: 5.769 min Scan# 1393

Delta R.T. 0.000 min

Lab File: VU060161.D

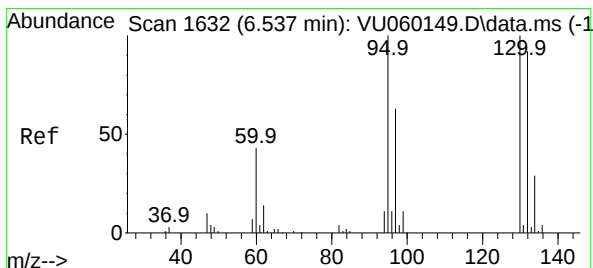
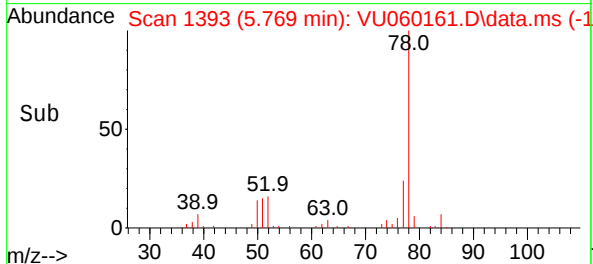
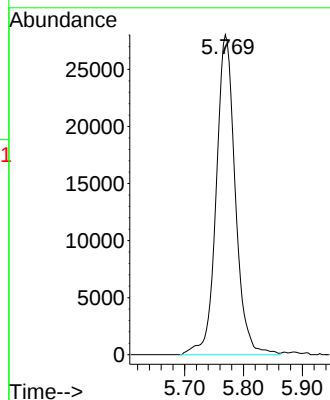
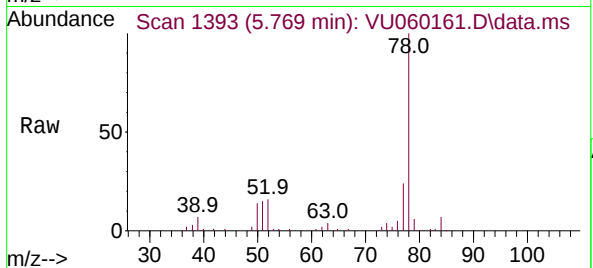
Acq: 24 Jul 2024 18:15

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 63131



#34

Trichloroethene

Concen: 12.543 ug/L

RT: 6.534 min Scan# 1631

Delta R.T. -0.003 min

Lab File: VU060161.D

Acq: 24 Jul 2024 18:15

Tgt Ion: 95 Resp: 164262

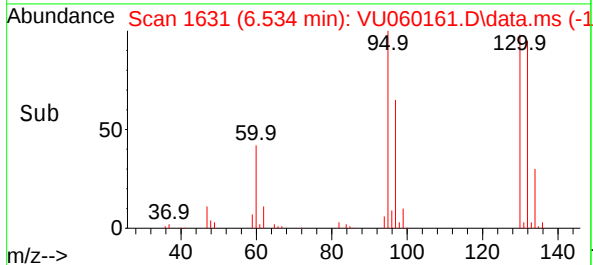
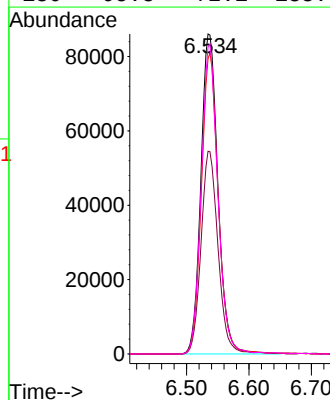
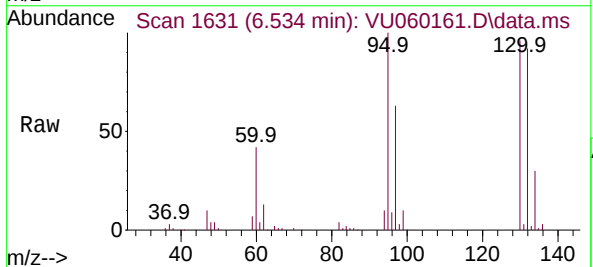
Ion Ratio Lower Upper

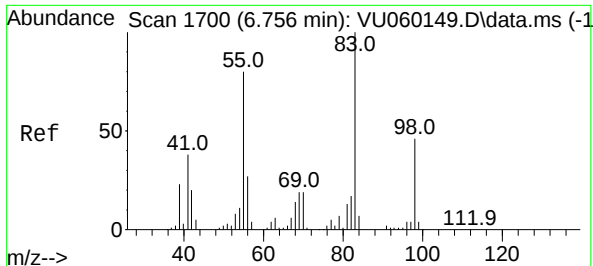
95 100

97 63.3 45.9 85.3

132 92.3 71.4 132.6

130 95.8 72.1 133.9

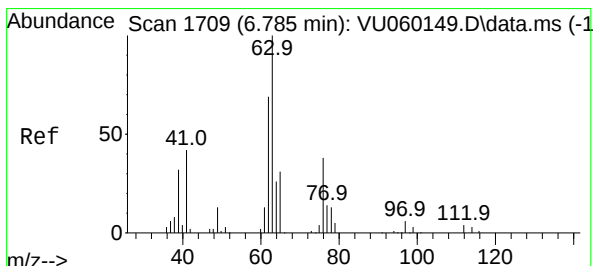
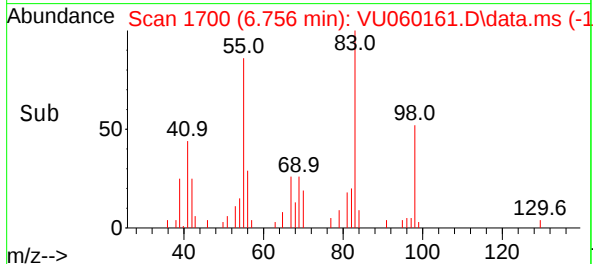
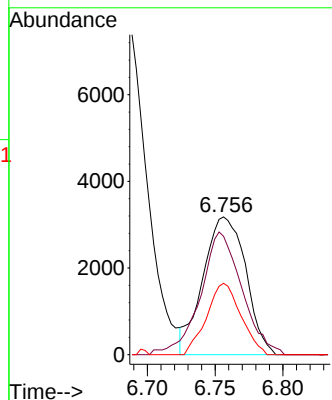
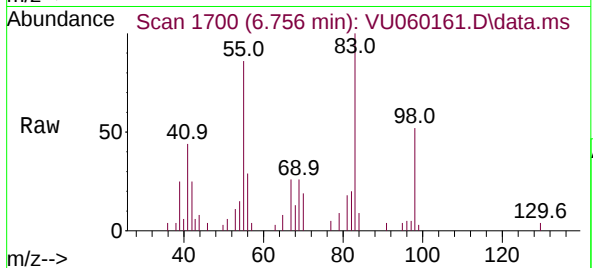




#35
Methylcyclohexane
Concen: 0.406 ug/L
RT: 6.756 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU060161.D
Acq: 24 Jul 2024 18:15

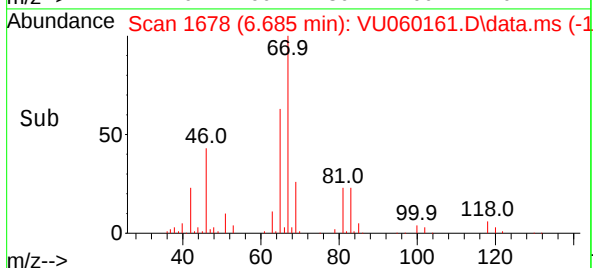
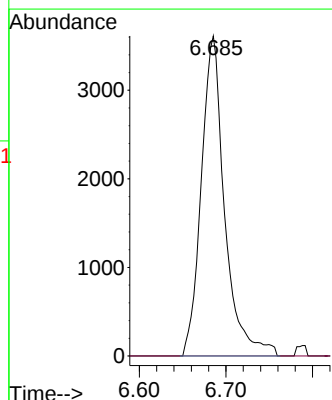
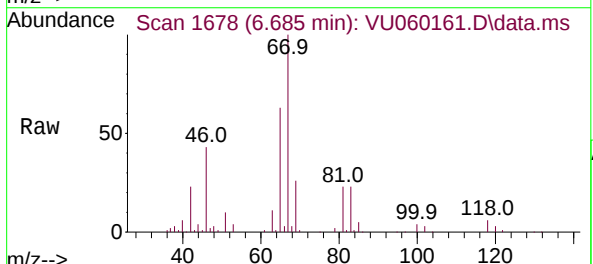
Instrument :
MSVOA_U
ClientSampleId :

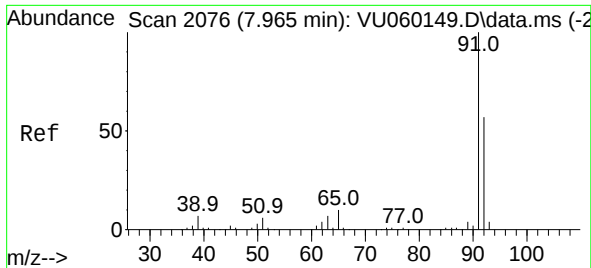
Tgt Ion: 83 Resp: 6971
Ion Ratio Lower Upper
83 100
55 86.1 56.7 85.1#
98 41.4 36.6 55.0



#37
1,2-Dichloropropane
Concen: 0.508 ug/L
RT: 6.685 min Scan# 1678
Delta R.T. -0.100 min
Lab File: VU060161.D
Acq: 24 Jul 2024 18:15

Tgt Ion: 63 Resp: 6781
Ion Ratio Lower Upper
63 100
112 0.0 3.3 4.9#





#42

Toluene

Concen: 0.299 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. 0.000 min

Lab File: VU060161.D

Acq: 24 Jul 2024 18:15

Instrument :

MSVOA_U

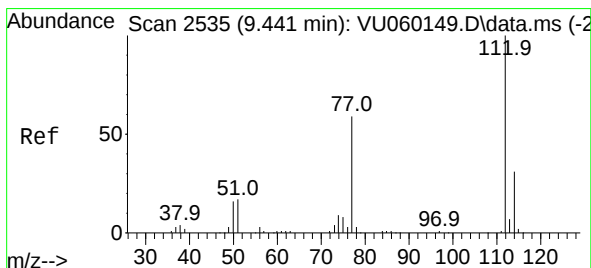
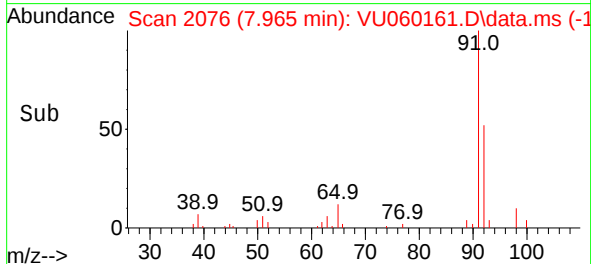
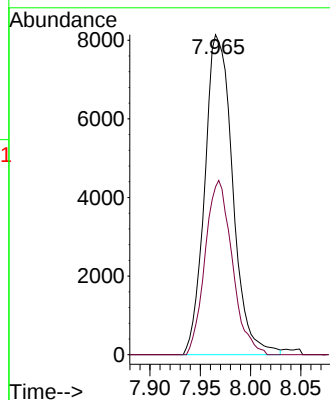
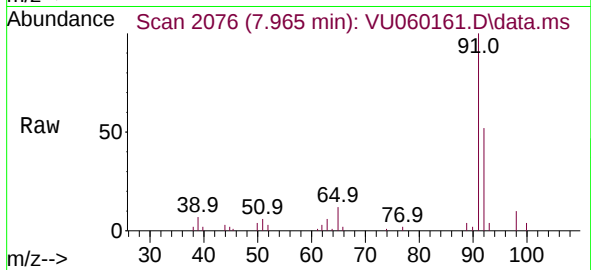
ClientSampleId :

Tgt Ion: 91 Resp: 15728

Ion Ratio Lower Upper

91 100

92 52.5 39.8 73.8



#51

Chlorobenzene

Concen: 0.300 ug/L

RT: 9.444 min Scan# 2536

Delta R.T. 0.003 min

Lab File: VU060161.D

Acq: 24 Jul 2024 18:15

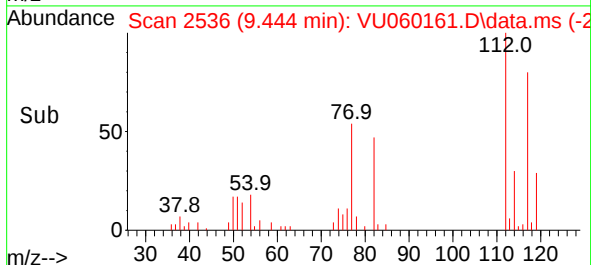
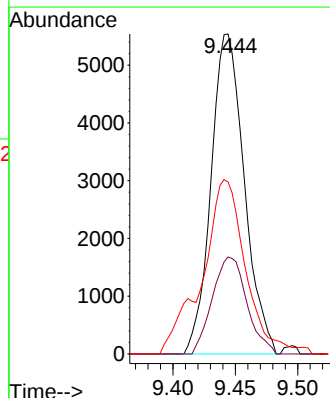
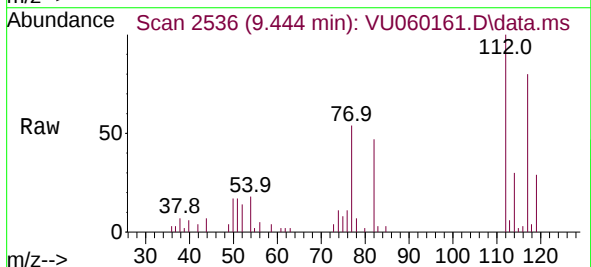
Tgt Ion: 112 Resp: 10303

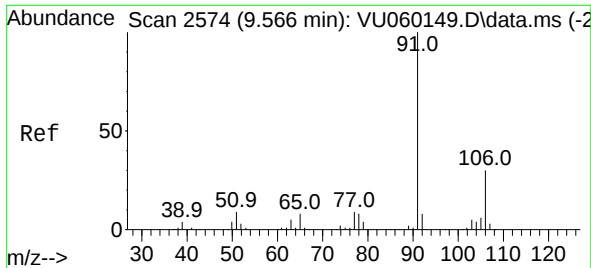
Ion Ratio Lower Upper

112 100

114 30.3 22.1 41.1

77 53.8 44.7 67.1

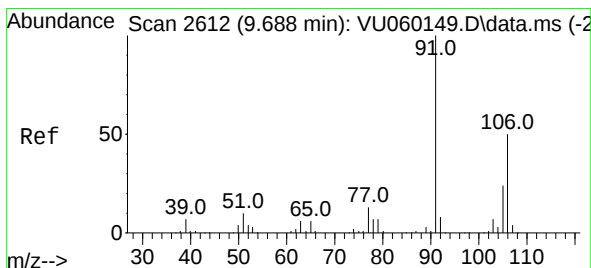
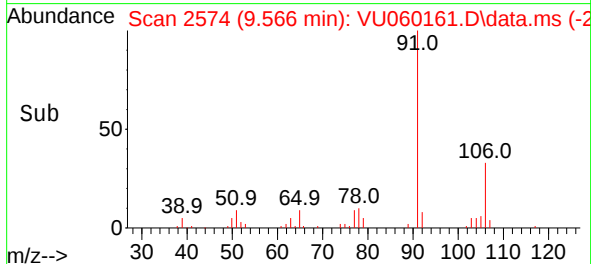
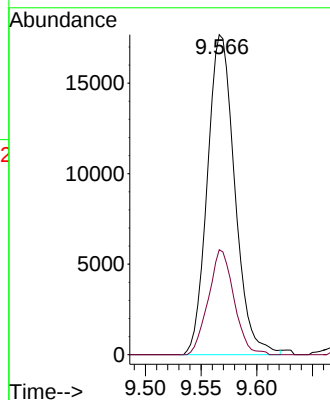
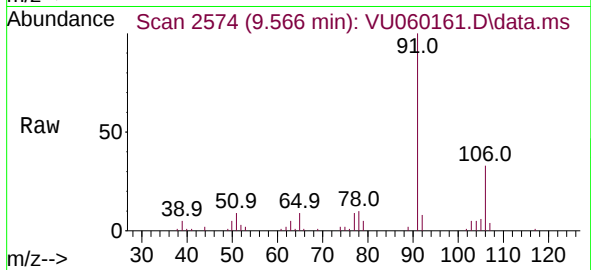




#52
Ethylbenzene
Concen: 0.577 ug/L
RT: 9.566 min Scan# 2574
Delta R.T. 0.000 min
Lab File: VU060161.D
Acq: 24 Jul 2024 18:15

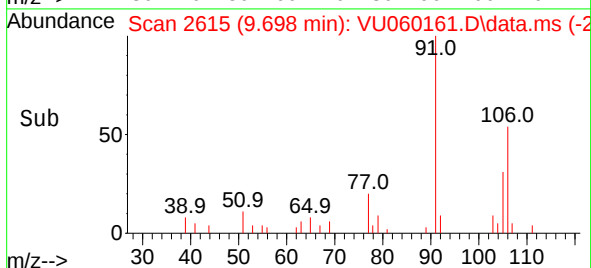
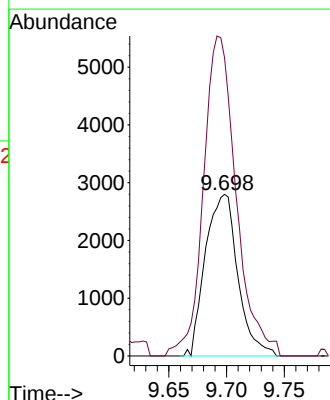
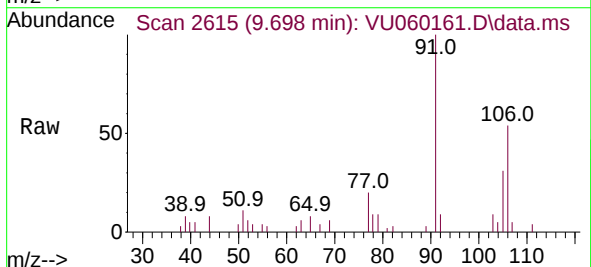
Instrument :
MSVOA_U
ClientSampleId :

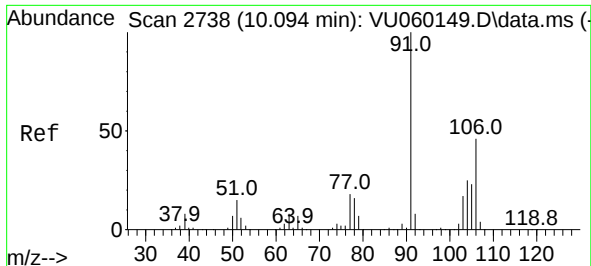
Tgt Ion: 91 Resp: 30235
Ion Ratio Lower Upper
91 100
106 32.8 21.9 40.7



#53
m,p-Xylene
Concen: 0.270 ug/L
RT: 9.698 min Scan# 2615
Delta R.T. 0.010 min
Lab File: VU060161.D
Acq: 24 Jul 2024 18:15

Tgt Ion:106 Resp: 5460
Ion Ratio Lower Upper
106 100
91 184.6 141.3 262.5





#54

o-Xylene

Concen: 0.672 ug/L

RT: 10.097 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU060161.D

Acq: 24 Jul 2024 18:15

Instrument :

MSVOA_U

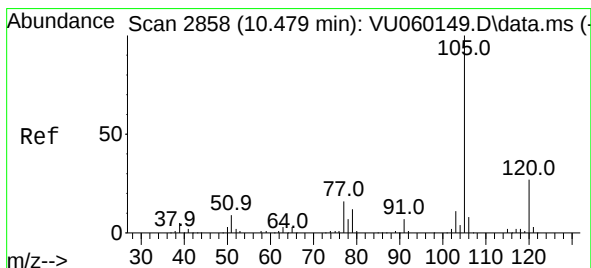
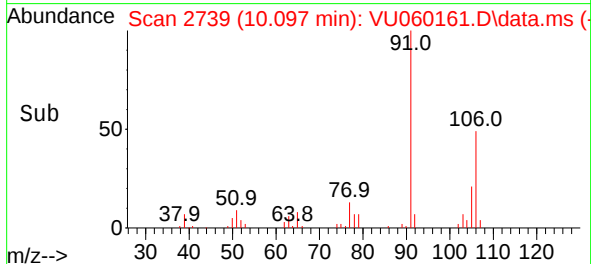
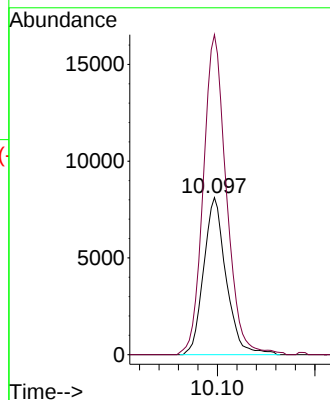
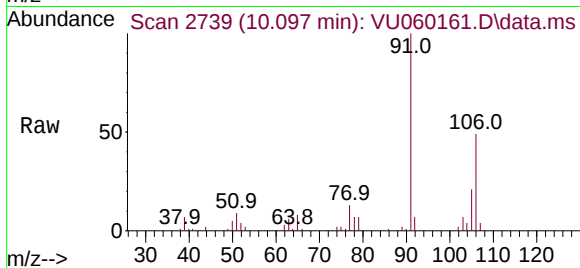
ClientSampleId :

Tgt Ion:106 Resp: 13012

Ion Ratio Lower Upper

106 100

91 203.6 143.6 266.6



#60

Isopropylbenzene

Concen: 0.361 ug/L

RT: 10.483 min Scan# 2859

Delta R.T. 0.003 min

Lab File: VU060161.D

Acq: 24 Jul 2024 18:15

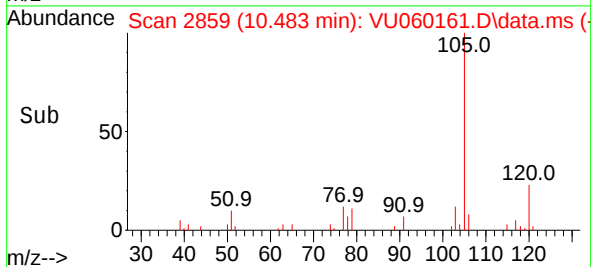
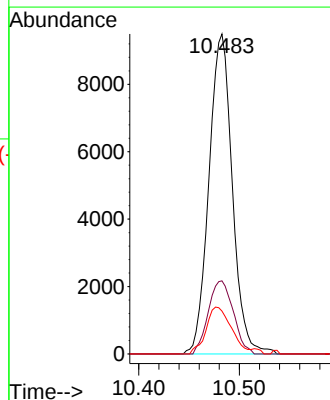
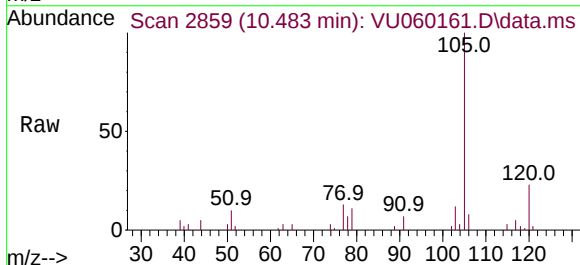
Tgt Ion:105 Resp: 15344

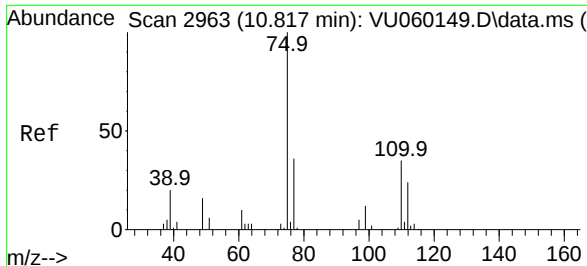
Ion Ratio Lower Upper

105 100

120 24.4 21.9 32.9

77 15.8 12.1 18.1





#61

1,2,3-Trichloropropane

Concen: 1.323 ug/L

RT: 11.807 min Scan# 31

Delta R.T. 0.990 min

Lab File: VU060161.D

Acq: 24 Jul 2024 18:15

Instrument :

MSVOA_U

ClientSampleId :

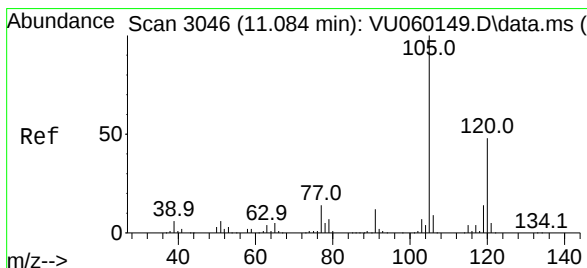
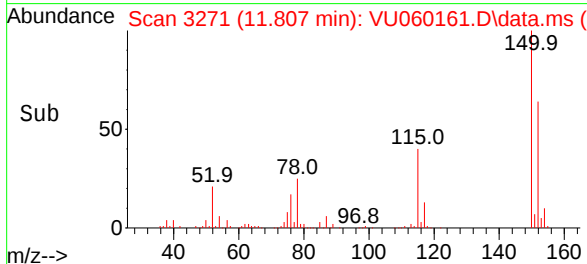
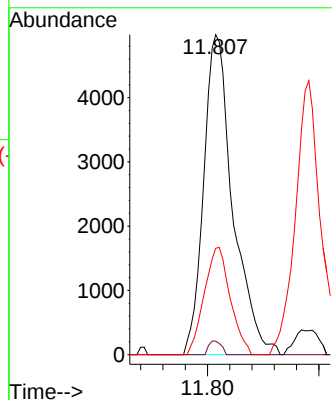
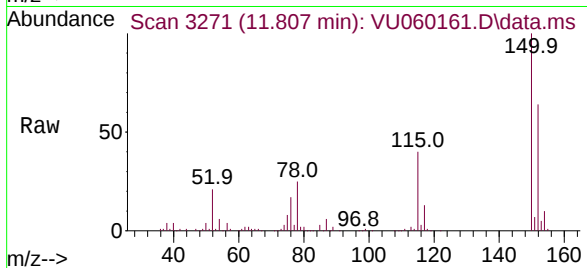
Tgt Ion: 75 Resp: 9073

Ion Ratio Lower Upper

75 100

110 1.8 30.8 46.2#

77 29.8 26.2 39.2



#62

1,3,5-Trimethylbenzene

Concen: 0.083 ug/L

RT: 11.087 min Scan# 3047

Delta R.T. 0.003 min

Lab File: VU060161.D

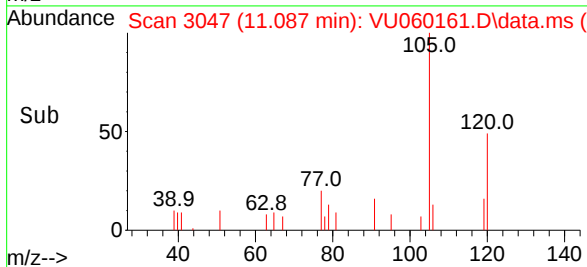
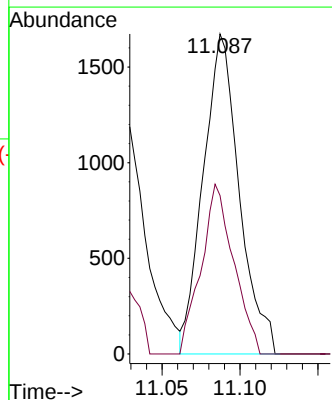
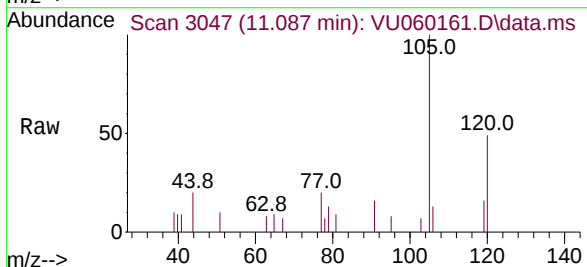
Acq: 24 Jul 2024 18:15

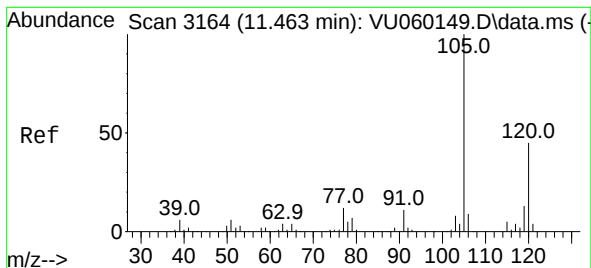
Tgt Ion:105 Resp: 2688

Ion Ratio Lower Upper

105 100

120 48.0 39.4 59.2





#63

1,2,4-Trimethylbenzene

Concen: 0.119 ug/L

RT: 11.470 min Scan# 3166

Delta R.T. 0.006 min

Lab File: VU060161.D

Acq: 24 Jul 2024 18:15

Instrument :

MSVOA_U

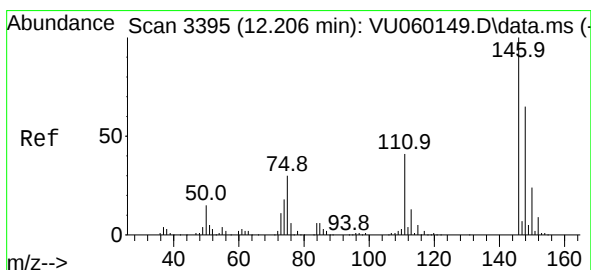
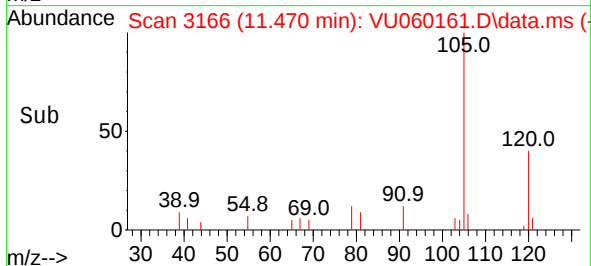
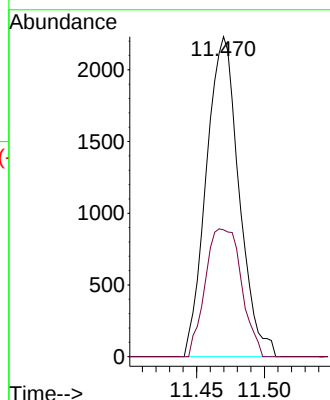
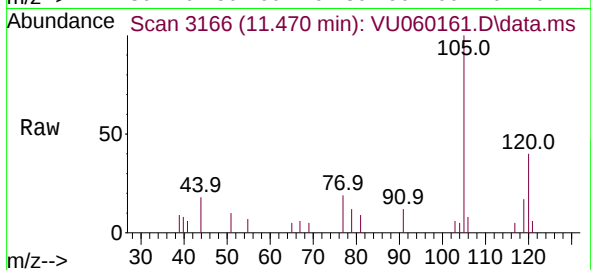
ClientSampleId :

Tgt Ion:105 Resp: 3743

Ion Ratio Lower Upper

105 100

120 44.0 36.7 55.1



#67

1,2-Dichlorobenzene

Concen: 0.575 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. 0.000 min

Lab File: VU060161.D

Acq: 24 Jul 2024 18:15

Tgt Ion:146 Resp: 12607

Ion Ratio Lower Upper

146 100

111 40.4 30.9 46.3

148 59.6 49.8 74.8

