

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037779.D
 Acq On : 5 Oct 2021 18:37
 Operator : SY/AP
 Sample : M4012-09
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P27

Manual Integrations
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 10/11/2021 7:36:21 PM

Quant Time: Oct 06 06:07:45 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Oct 0
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1313584	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3756449	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	3258159	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2199187	9.65	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	41791	0.199	ppbv #	85
3) Chlorodifluoromethane	2.98	51	58557	0.232	ppbv	97
4) Chloromethane	3.13	50	34968m	0.378	ppbv	
9) Propene	3.01	41	39503	0.425	ppbv	92
11) Trichlorofluoromethane	3.93	101	37749m	0.202	ppbv	
13) Ethanol	3.59	45	260121	34.250	ppbv	86
15) Acetone	3.83	43	459695	3.898	ppbv	92
17) tert-Butyl alcohol	4.29	59	12328m	0.102	ppbv	
19) Isopropyl Alcohol	3.96	45	159016	2.168	ppbv #	88
20) Methylene Chloride	4.33	84	646967	10.859	ppbv	91
26) Hexane	5.67	57	261111	1.603	ppbv #	45
29) Chloroform	5.73	83	38230m	0.164	ppbv	
34) 2-Butanone	5.23	43	47872	0.316	ppbv #	85
35) Carbon Tetrachloride	7.00	117	11728m	0.055	ppbv	
36) Benzene	6.86	78	39776m	0.124	ppbv	
50) 4-Methyl-2-Pentanone	8.74	43	40590m	0.206	ppbv	
52) Tetrachloroethene	11.20	164	802720	6.431	ppbv	96
53) Toluene	9.78	91	95582m	0.269	ppbv	
58) Ethyl Benzene	12.69	91	60178	0.138	ppbv	91
59) m/p-Xylene	12.94	91	250787m	0.668	ppbv	
60) o-Xylene	13.66	91	70893m	0.197	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	52666m	0.135	ppbv	
75) 1,3-Dichlorobenzene	16.97	146	34612m	0.143	ppbv	
79) Naphthalene	22.17	128	40307m	0.169	ppbv	

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

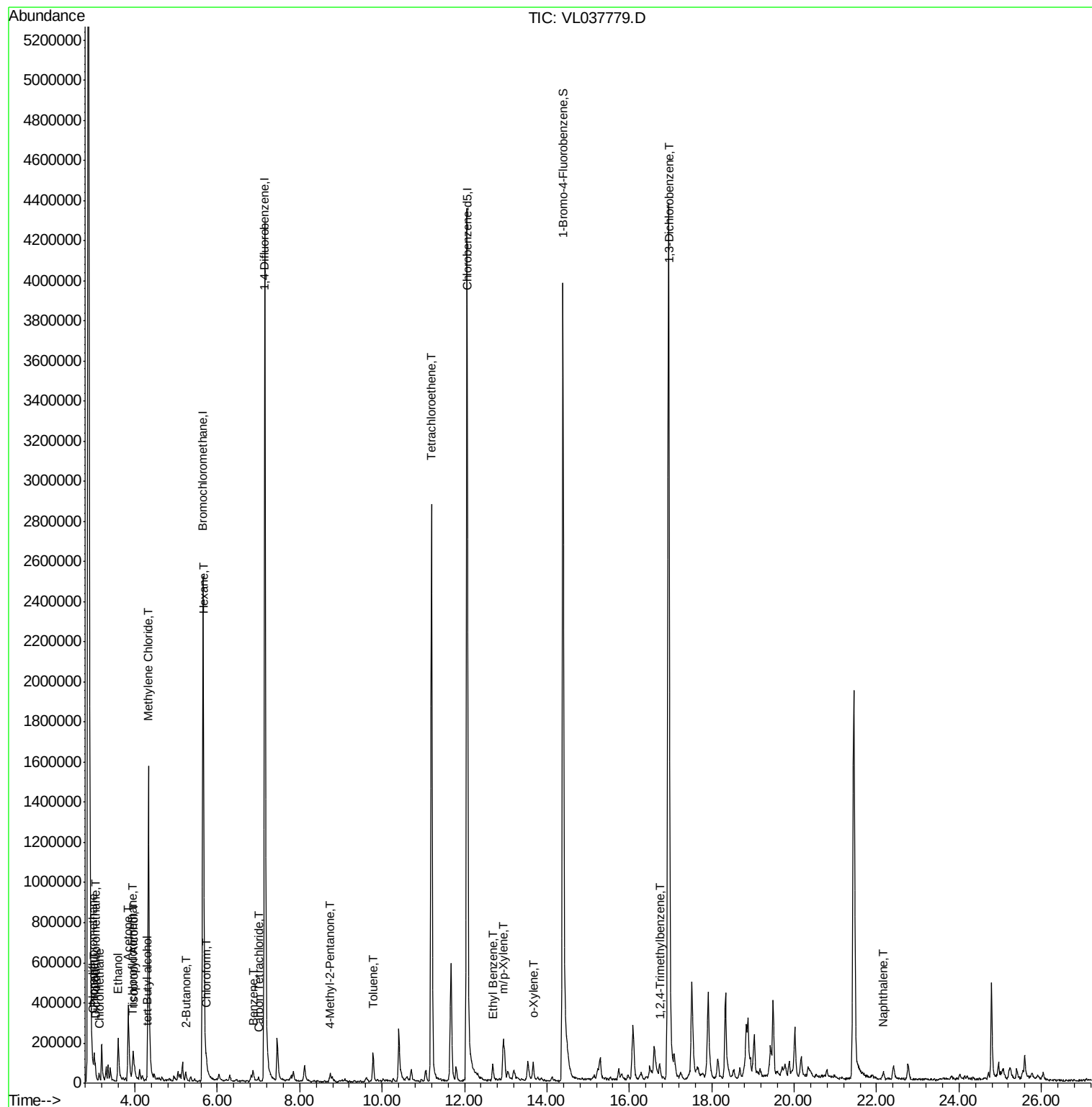
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
Data File : VL037779.D
Acq On : 5 Oct 2021 18:37
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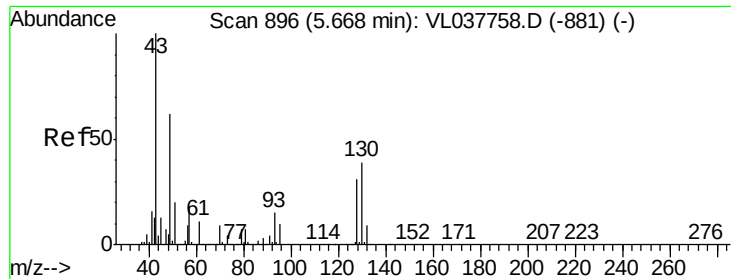
Instrument :
MSVOA_L
ClientSampleId :
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Quant Time: Oct 06 06:07:45 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL037779.D

Acq: 5 Oct 2021 18:37

Instrument :

MSVOA_L

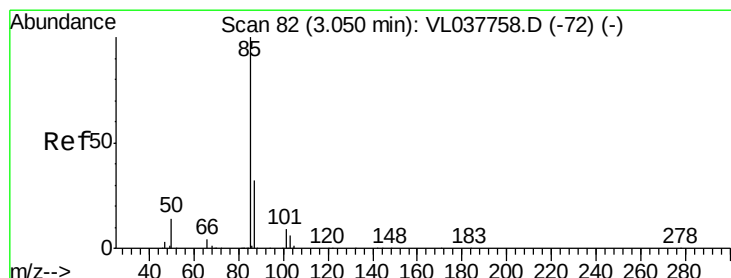
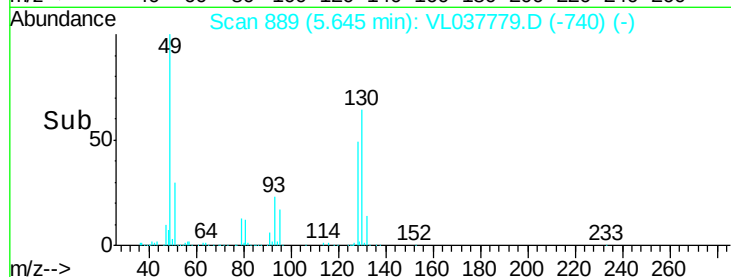
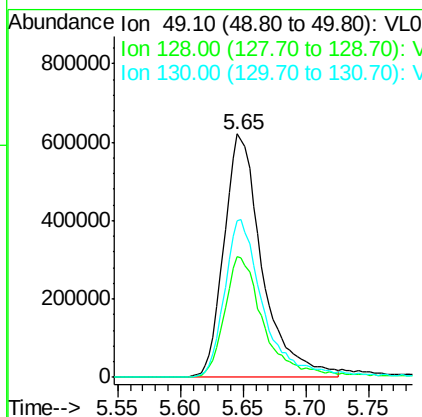
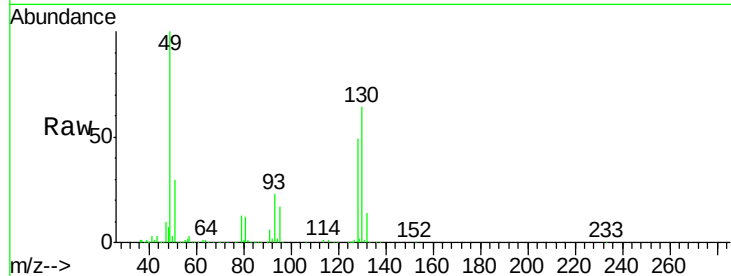
ClientSampled :

C0P27

Tgt Ion:	49	Resp:	1313584
Ion	Ratio	Lower	Upper
49	100		
128	52.3	27.1	81.3
130	67.7	33.2	99.6

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#2

Dichlorodifluoromethane

Concen: 0.199 ppbv

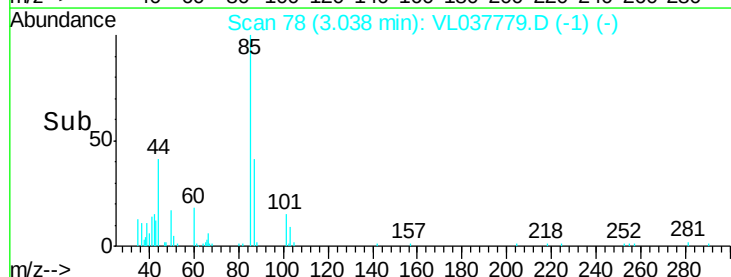
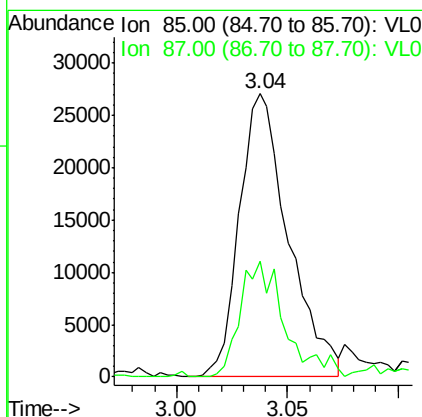
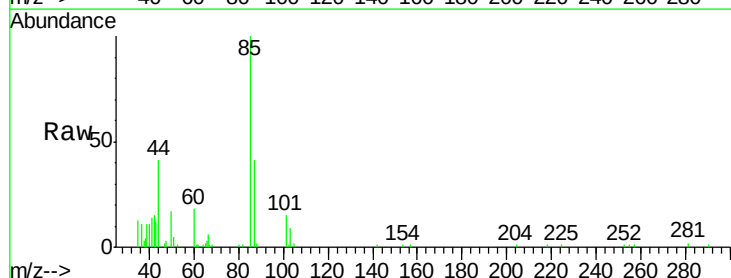
RT: 3.04 min Scan# 78

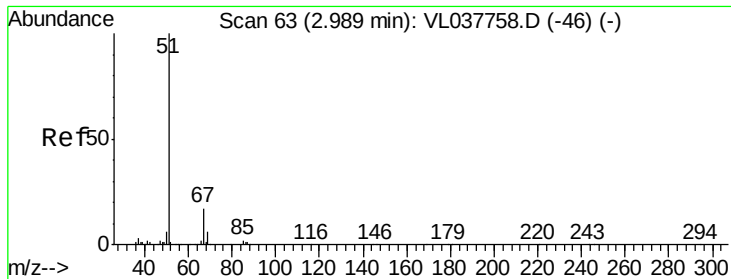
Delta R.T. -0.01 min

Lab File: VL037779.D

Acq: 5 Oct 2021 18:37

Tgt Ion:	85	Resp:	41791
Ion	Ratio	Lower	Upper
85	100		
87	40.7	25.7	38.5#





#3

Chlorodifluoromethane

Concen: 0.232 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL037779.D

Acq: 5 Oct 2021 18:37

Instrument :

MSVOA_L

ClientSampleId :

C0P27

Tgt Ion: 51 Resp: 58557

Ion Ratio Lower Upper

51 100

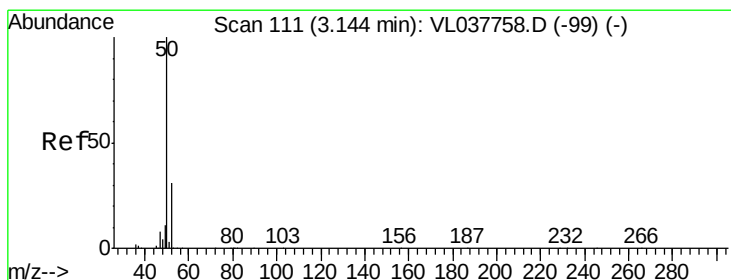
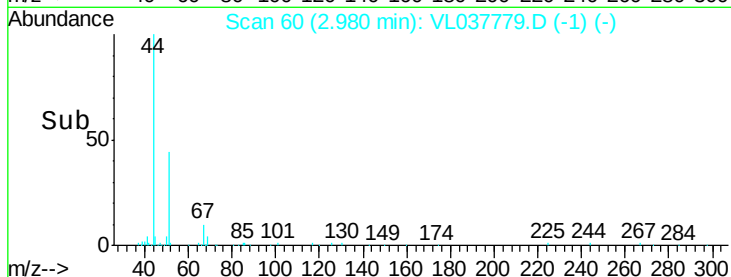
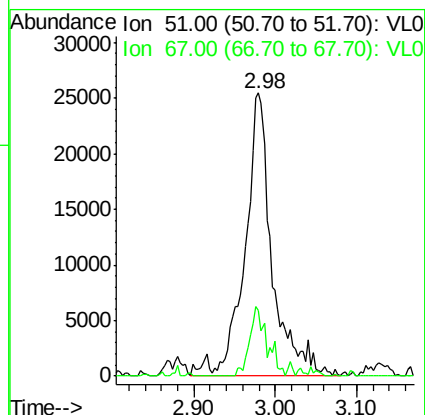
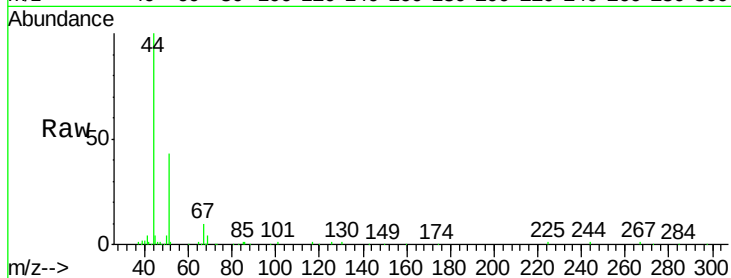
67 15.6 13.5 20.3

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#4

Chloromethane

Concen: 0.378 ppbv m

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL037779.D

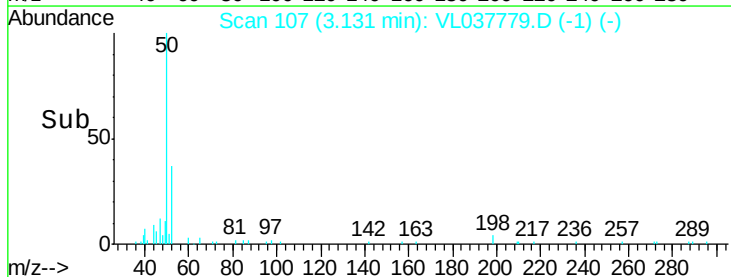
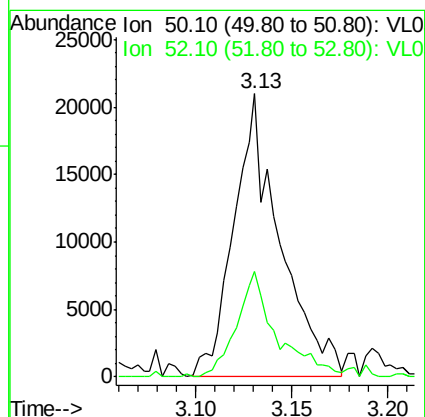
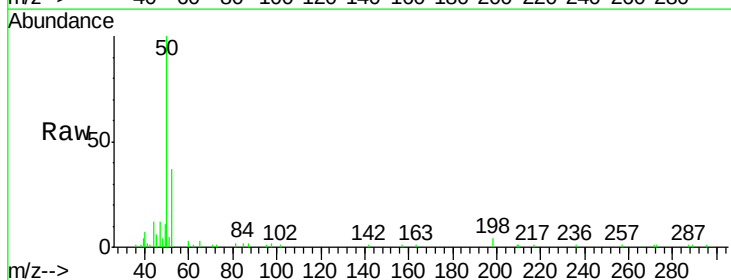
Acq: 5 Oct 2021 18:37

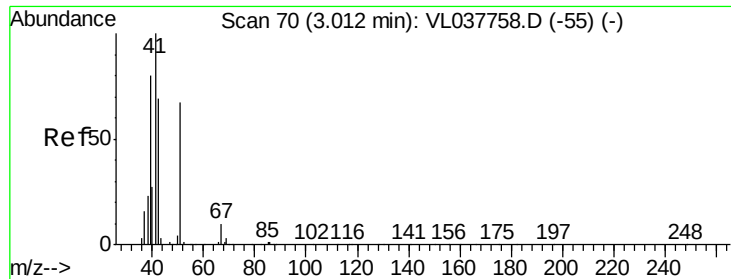
Tgt Ion: 50 Resp: 34968

Ion Ratio Lower Upper

50 100

52 37.4 24.4 36.6#





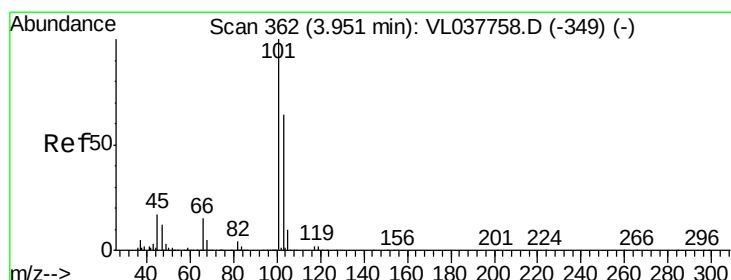
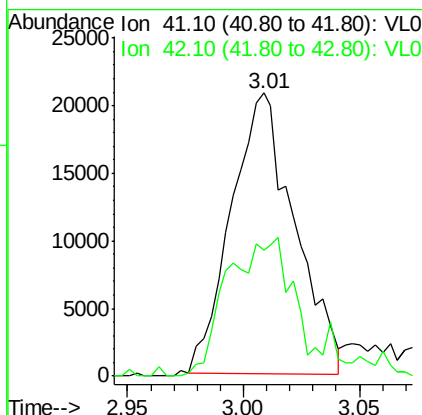
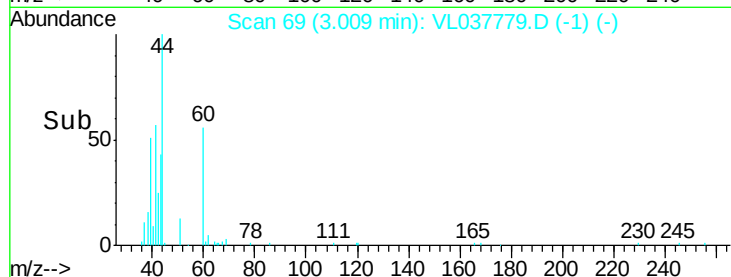
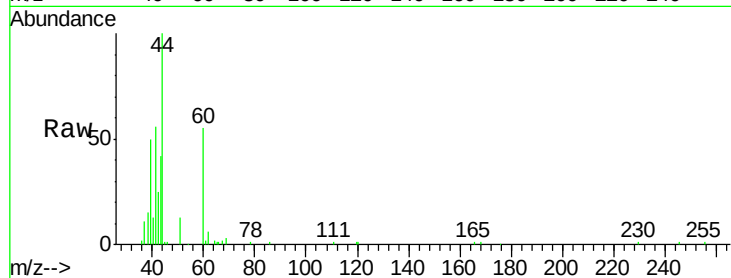
#9
 Propene
 Concen: 0.425 ppbv
 RT: 3.01 min Scan# 69
 Delta R.T. -0.00 min
 Lab File: VL037779.D
 Acq: 5 Oct 2021 18:37

Instrument :
 MSVOA_L
 ClientSampled :
 C0P27

Tgt Ion: 41 Resp: 39503
 Ion Ratio Lower Upper
 41 100
 42 61.0 54.2 81.2

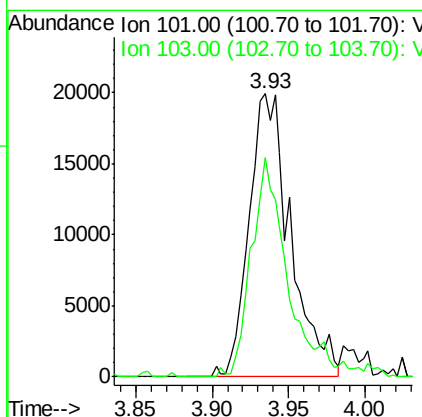
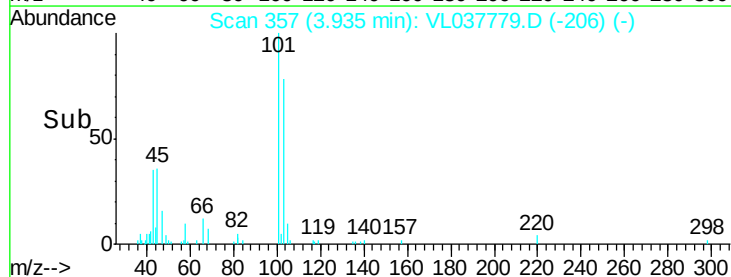
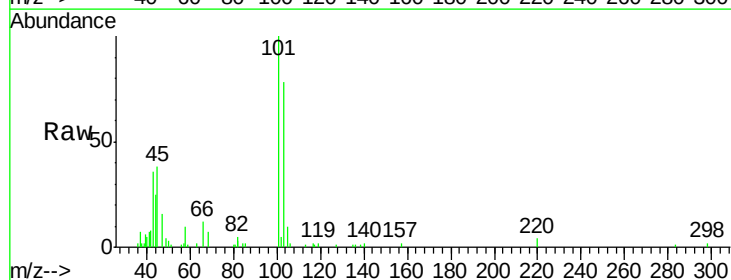
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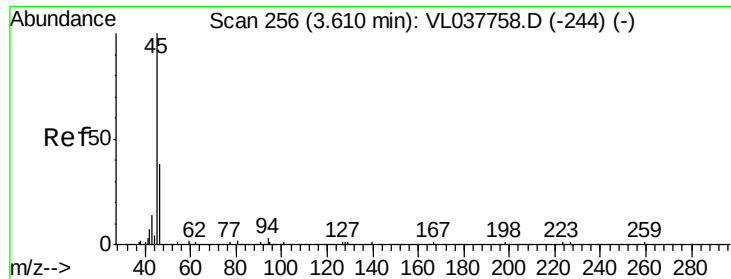
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#11
 Trichlorofluoromethane
 Concen: 0.202 ppbv m
 RT: 3.93 min Scan# 357
 Delta R.T. -0.02 min
 Lab File: VL037779.D
 Acq: 5 Oct 2021 18:37

Tgt Ion: 101 Resp: 37749
 Ion Ratio Lower Upper
 101 100
 103 77.6 51.5 77.3#





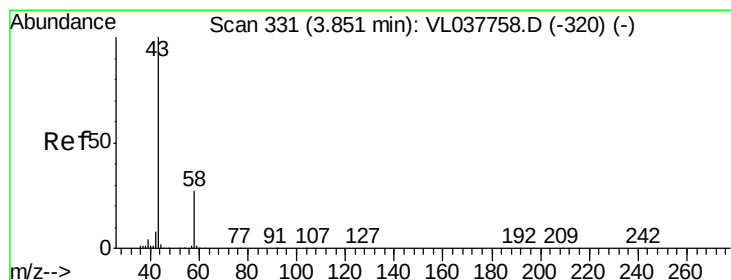
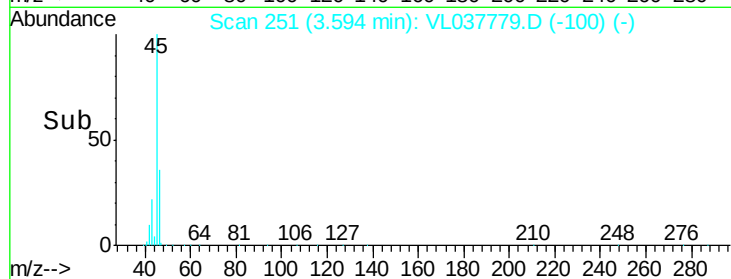
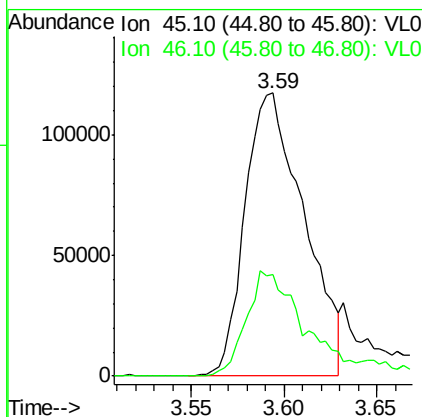
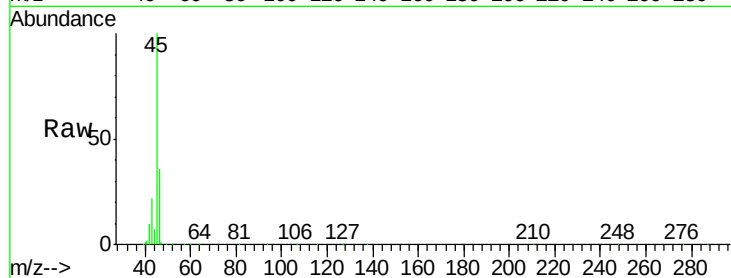
#13
Ethanol
Concen: 34.250 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.02 min
Lab File: VL037779.D
Acq: 5 Oct 2021 18:37

Instrument :
MSVOA_L
ClientSampleId :
C0P27

Tgt Ion: 45 Resp: 260121
Ion Ratio Lower Upper
45 100
46 41.1 20.2 81.0

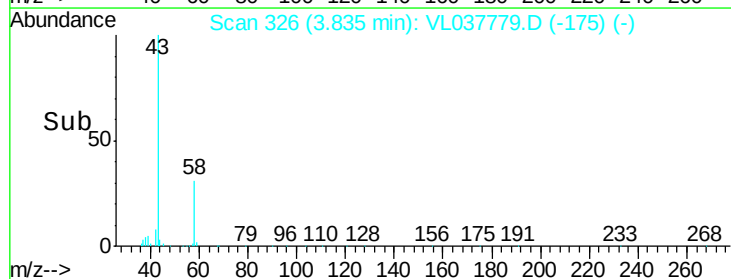
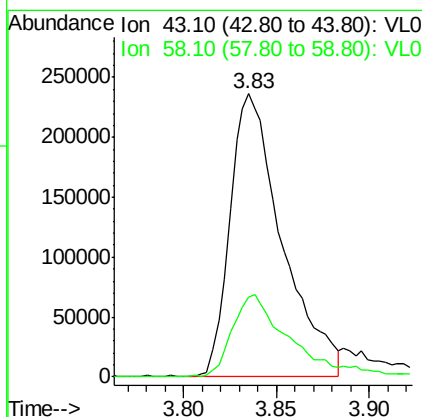
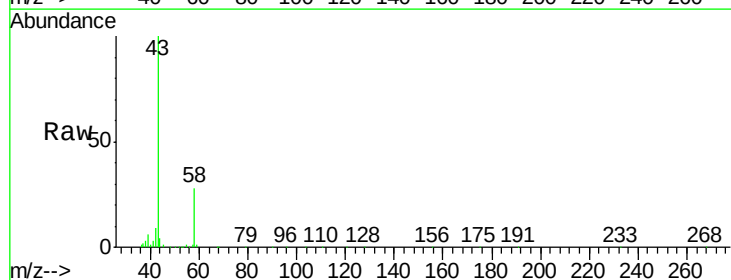
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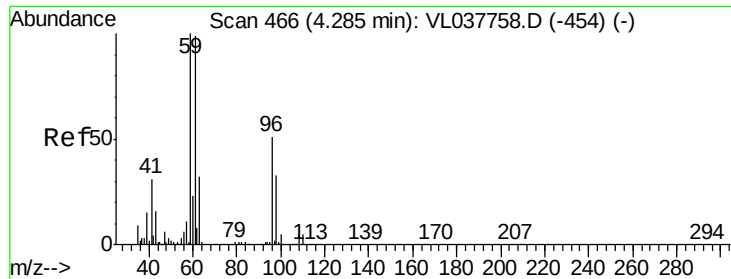
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#15
Acetone
Concen: 3.898 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.02 min
Lab File: VL037779.D
Acq: 5 Oct 2021 18:37

Tgt Ion: 43 Resp: 459695
Ion Ratio Lower Upper
43 100
58 33.1 23.0 34.6





#17

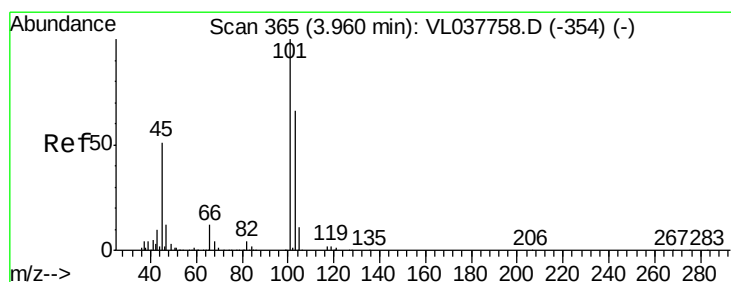
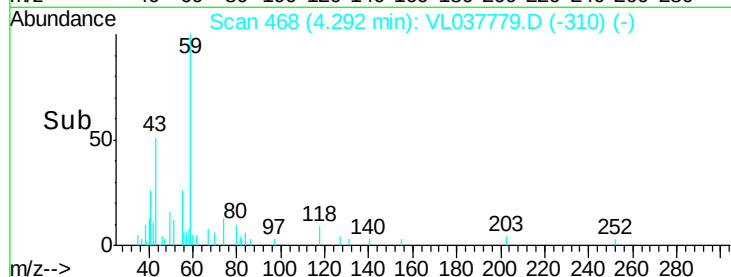
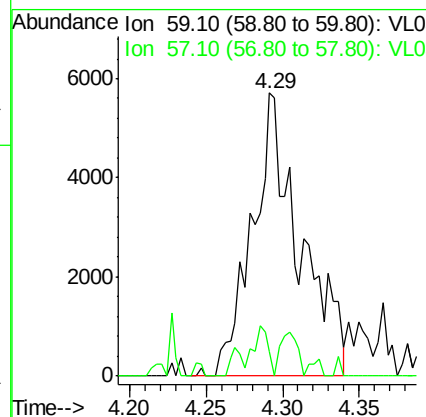
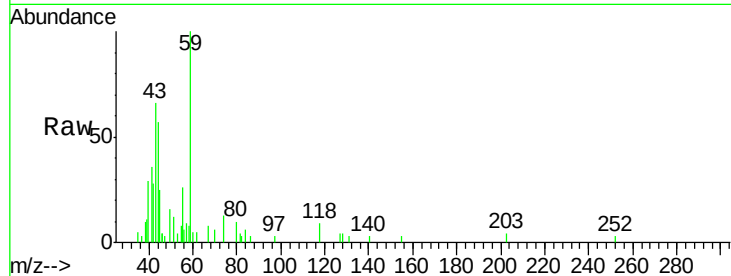
tert-Butyl alcohol
Concen: 0.102 ppbv
RT: 4.29 min Scan# 468
Delta R.T. 0.01 min
Lab File: VL037779.D
Acq: 5 Oct 2021 18:37

Instrument :
MSVOA_L
ClientSampled :
C0P27

Tgt Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.6	13.0#

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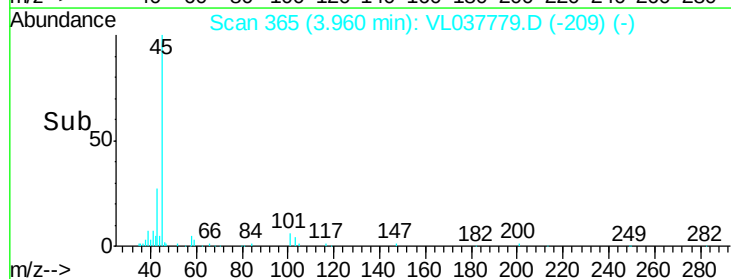
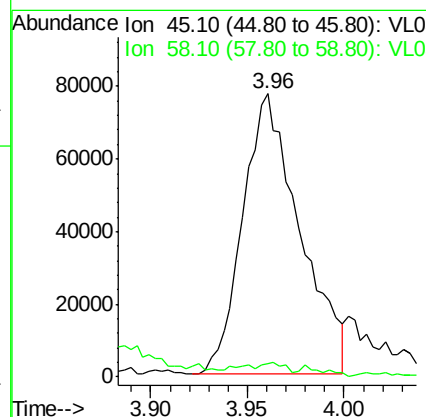
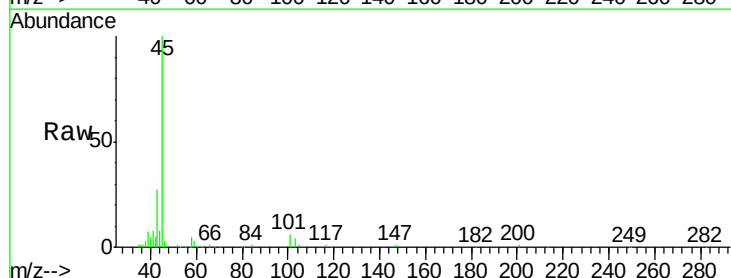
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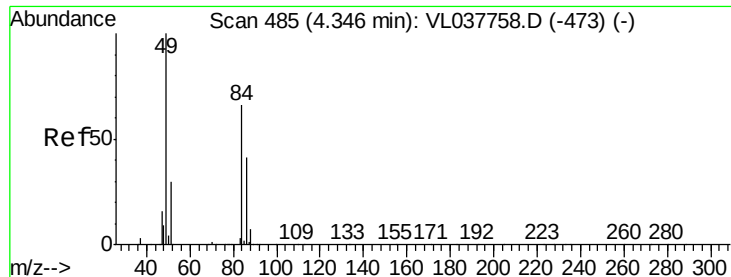


#19

Isopropyl Alcohol
Concen: 2.168 ppbv
RT: 3.96 min Scan# 365
Delta R.T. 0.00 min
Lab File: VL037779.D
Acq: 5 Oct 2021 18:37

Tgt Ion	Ratio	Lower	Upper
45	100		
58	6.0	1.1	1.7#





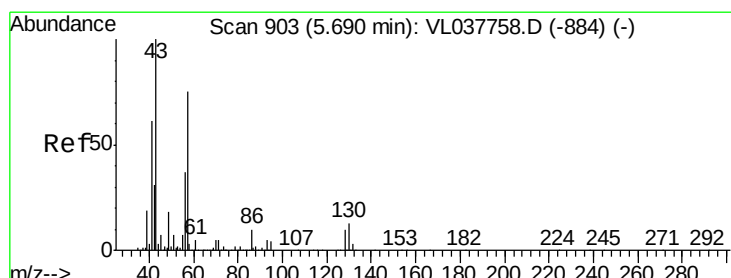
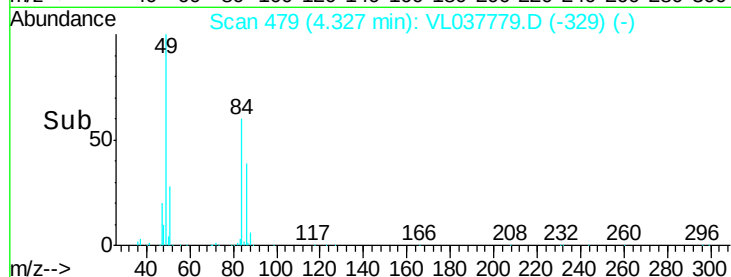
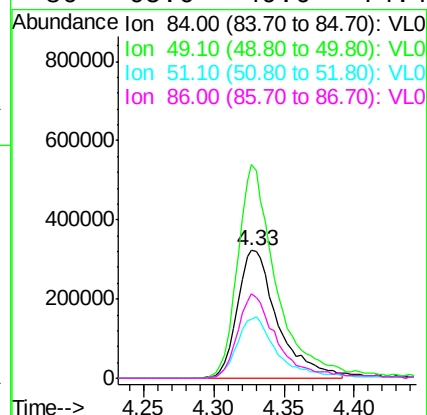
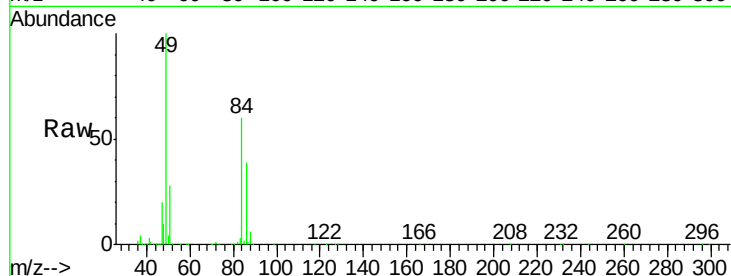
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Methylene Chloride
Concen: 10.859 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.02 min
Lab File: VL037779.D
Acq: 5 Oct 2021 18:37

Instrument :
MSVOA_L
ClientSampled :
C0P27

Tgt Ion	Ratio	Lower	Upper
84	100		
49	166.9	120.7	181.1
51	46.2	36.2	54.4
86	65.6	49.6	74.4

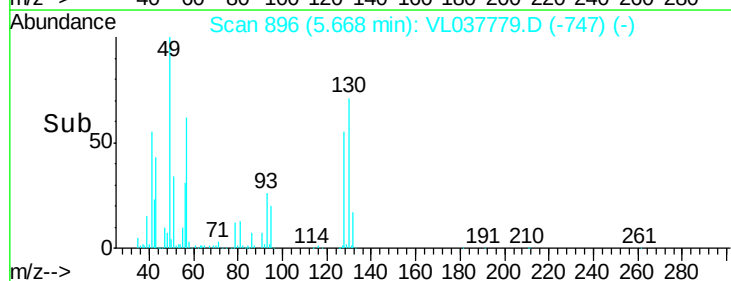
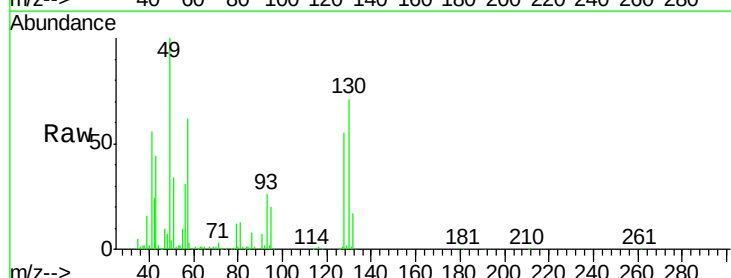
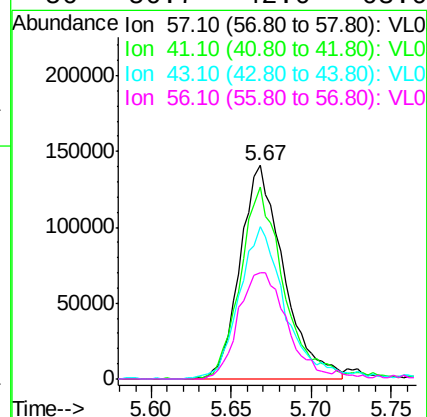
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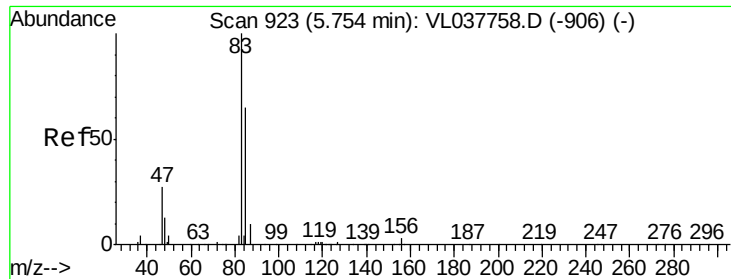
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#26
Hexane
Concen: 1.603 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL037779.D
Acq: 5 Oct 2021 18:37

Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.4	69.6	104.4
43	77.2	171.4	257.0#
56	56.7	42.0	63.0





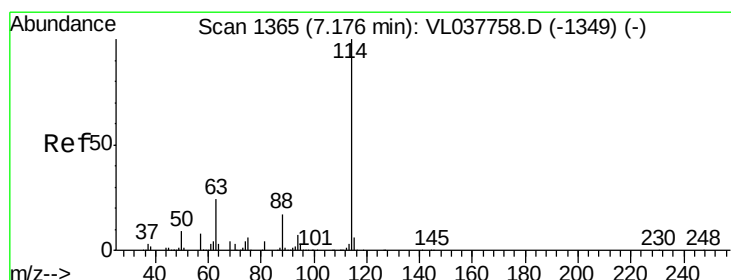
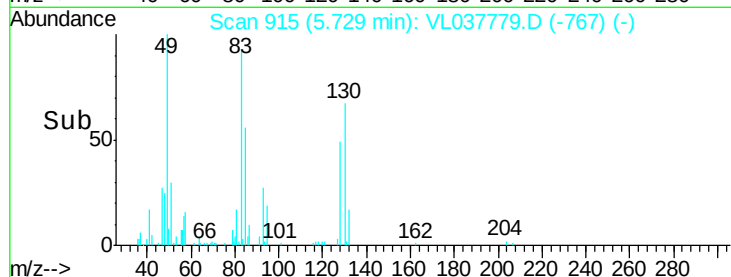
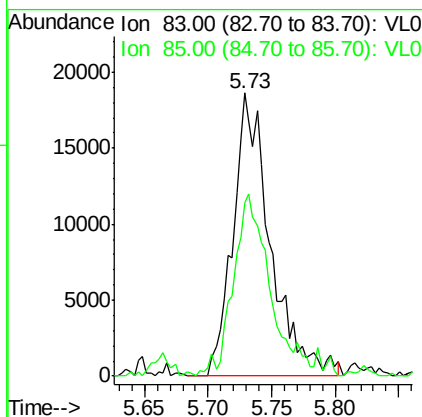
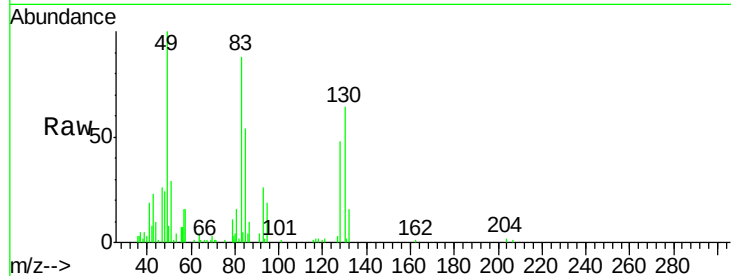
#29
Chloroform
Concen: 0.164 ppbv m
RT: 5.73 min Scan# 915
Delta R.T. -0.03 min
Lab File: VL037779.D
Acq: 5 Oct 2021 18:37

Instrument :
MSVOA_L
ClientSampleId :
C0P27

Tgt Ion: 83 Resp: 38230
Ion Ratio Lower Upper
83 100
85 61.4 51.8 77.8

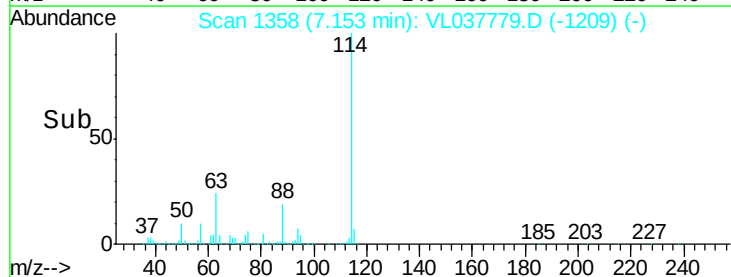
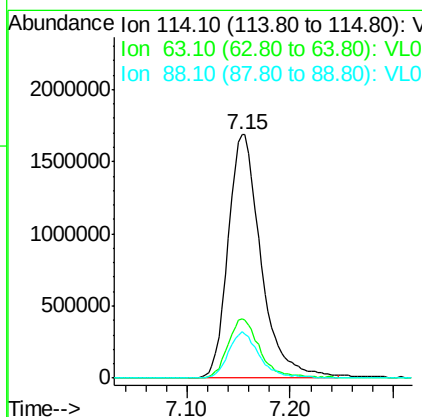
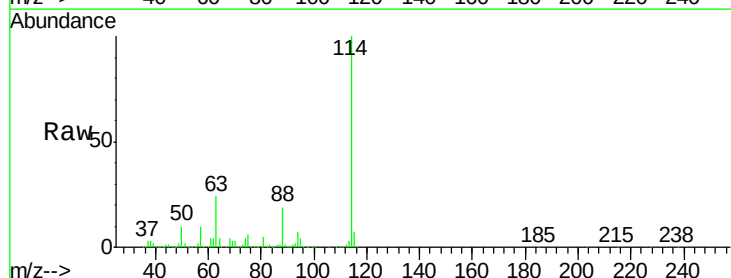
Manual Integrations
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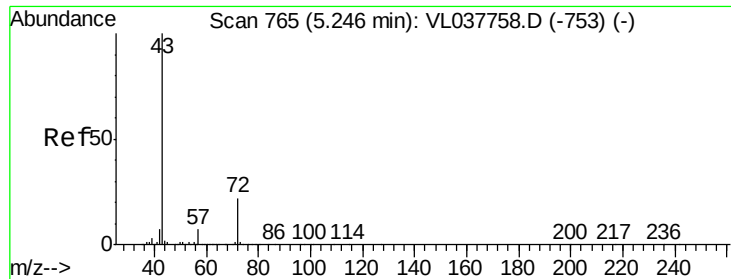
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.02 min
Lab File: VL037779.D
Acq: 5 Oct 2021 18:37

Tgt Ion: 114 Resp: 3756449
Ion Ratio Lower Upper
114 100
63 23.9 19.4 29.2
88 18.2 14.4 21.6





#34

2-Butanone

Concen: 0.316 ppbv

RT: 5.23 min Scan# 760

Delta R.T. -0.02 min

Lab File: VL037779.D

Acq: 5 Oct 2021 18:37

Instrument :

MSVOA_L

ClientSampleId :

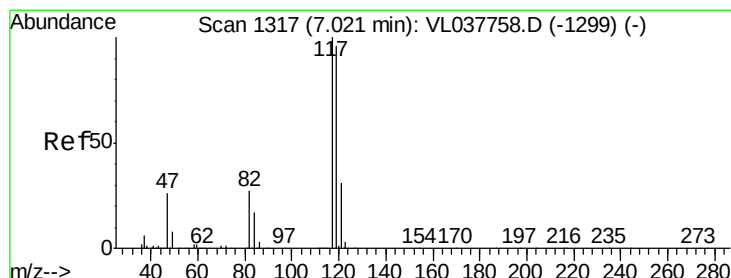
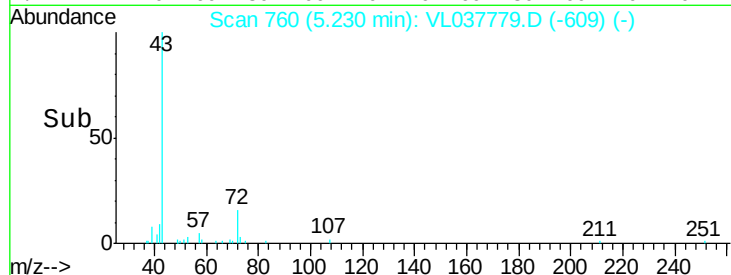
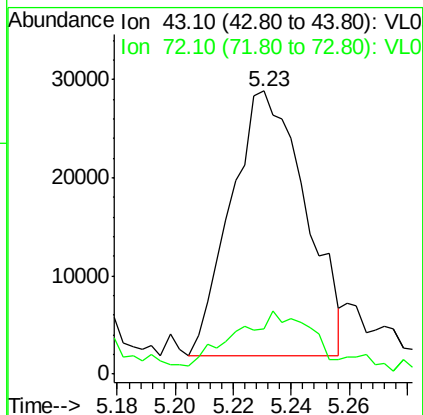
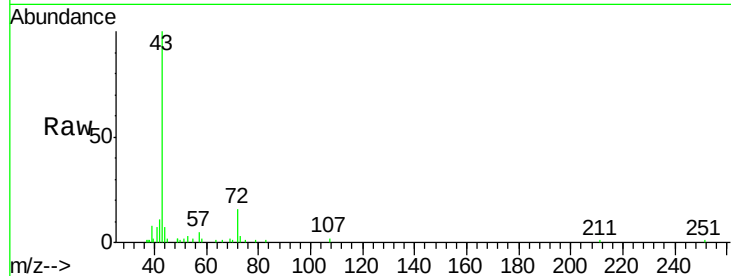
C0P27

Tgt Ion: 43 Resp: 47872

Ion	Ratio	Lower	Upper
43	100		
72	30.1	18.2	27.2#

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#35

Carbon Tetrachloride

Concen: 0.055 ppbv m

RT: 7.00 min Scan# 1310

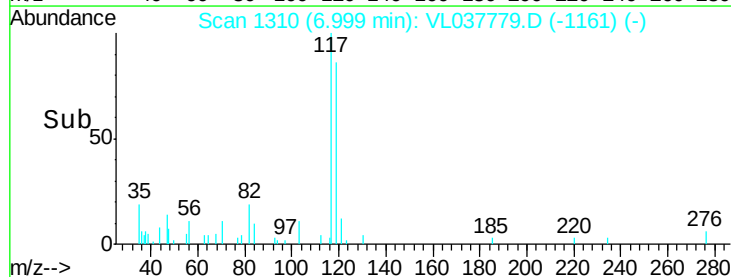
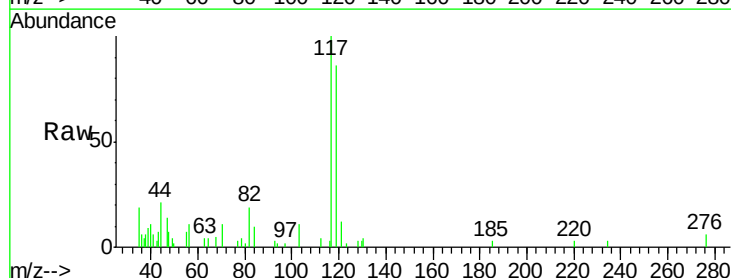
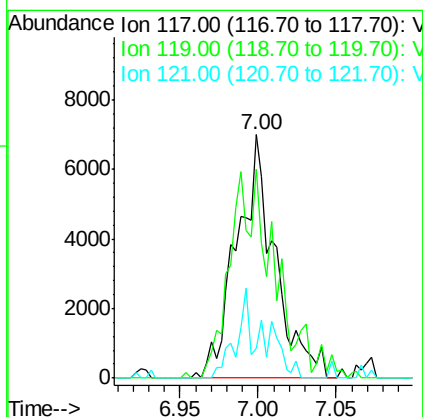
Delta R.T. -0.02 min

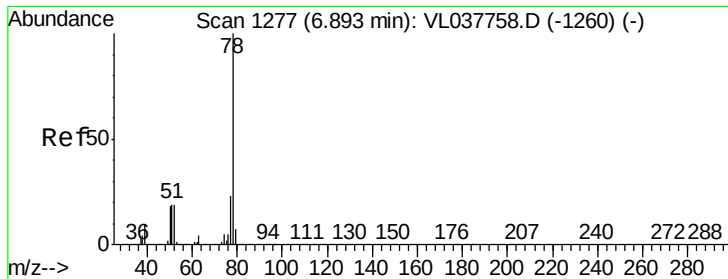
Lab File: VL037779.D

Acq: 5 Oct 2021 18:37

Tgt Ion: 117 Resp: 11728

Ion	Ratio	Lower	Upper
117	100		
119	85.9	76.5	114.7
121	12.5	24.9	37.3#





#36

Benzene

Concen: 0.124 ppbv m

RT: 6.86 min Scan# 1268

Delta R.T. -0.03 min

Lab File: VL037779.D

Acq: 5 Oct 2021 18:37

Instrument :

MSVOA_L

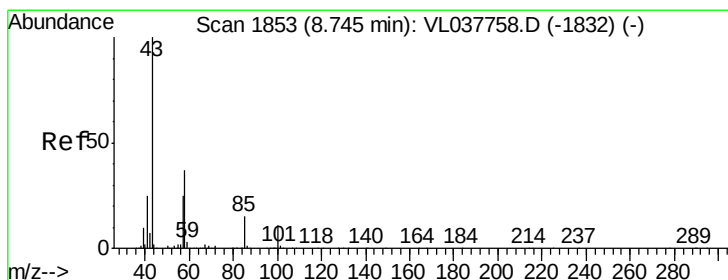
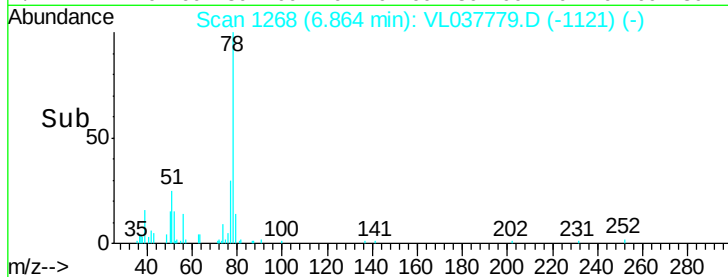
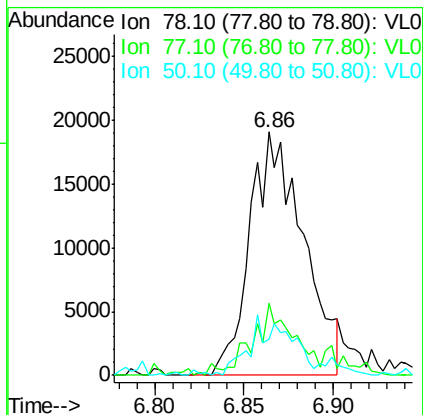
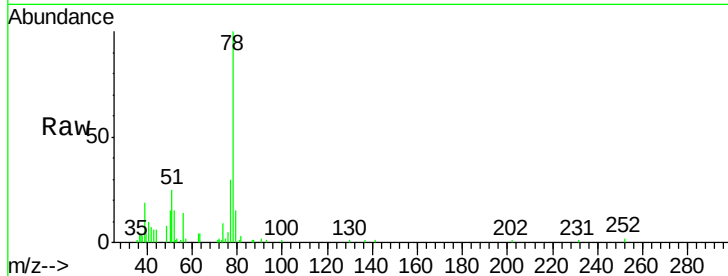
ClientSampleId :

C0P27

Tgt Ion:	78	Resp:	39776
Ion	Ratio	Lower	Upper
78	100		
77	29.7	18.8	28.2#
50	15.0	14.7	22.1

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#50

4-Methyl-2-Pentanone

Concen: 0.206 ppbv m

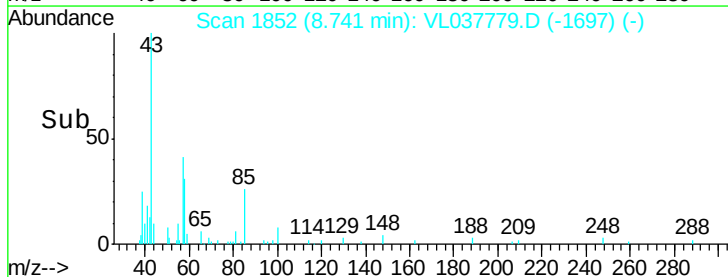
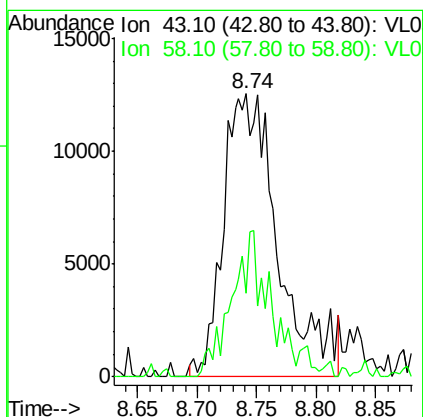
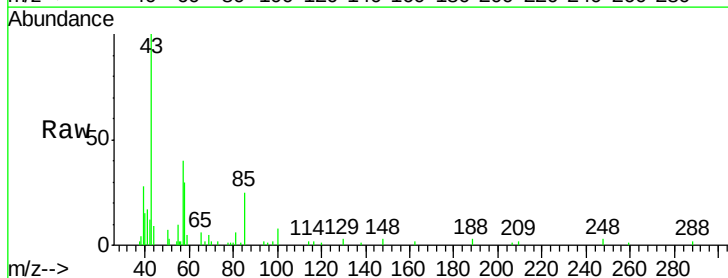
RT: 8.74 min Scan# 1852

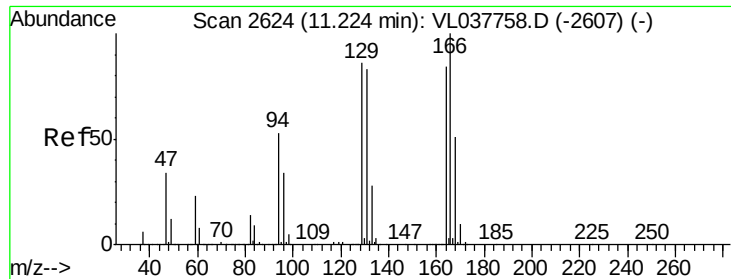
Delta R.T. -0.00 min

Lab File: VL037779.D

Acq: 5 Oct 2021 18:37

Tgt Ion:	43	Resp:	40590
Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.4	44.0#





#52

Tetrachloroethene

Concen: 6.431 ppbv

RT: 11.20 min Scan# 2616

Delta R.T. -0.03 min

Lab File: VL037779.D

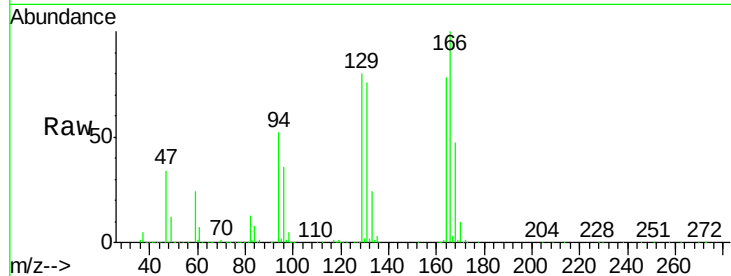
Acq: 5 Oct 2021 18:37

Instrument :

MSVOA_L

ClientSampleId :

C0P27



Tgt Ion: 164 Resp: 802720

Ion Ratio Lower Upper

164 100

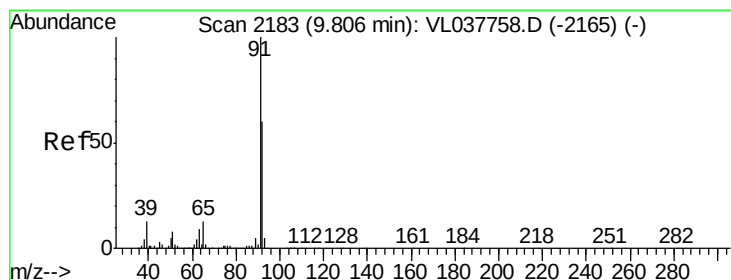
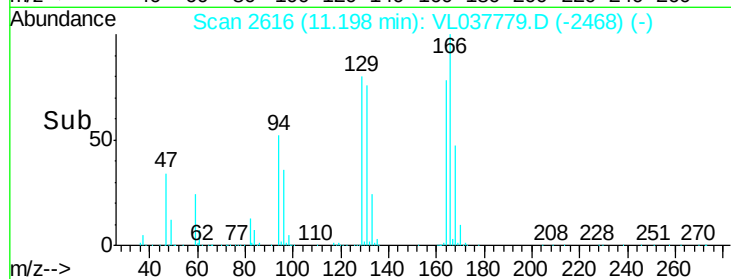
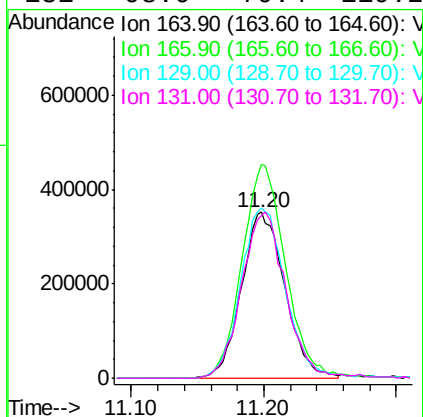
166 128.4 95.4 143.2

129 102.2 82.2 123.4

131 98.0 79.4 119.2

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10/11/2021 7:36:21 PM



#53

Toluene

Concen: 0.269 ppbv m

RT: 9.78 min Scan# 2175

Delta R.T. -0.03 min

Lab File: VL037779.D

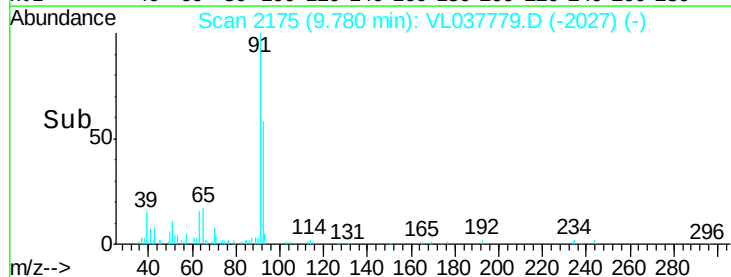
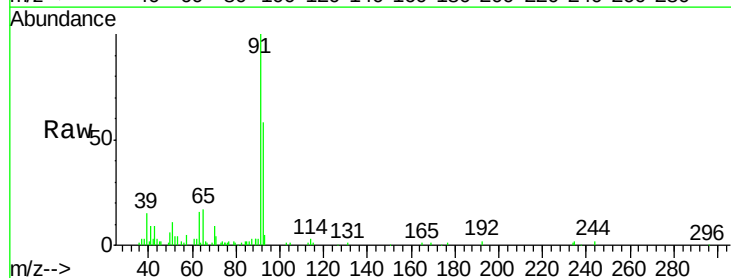
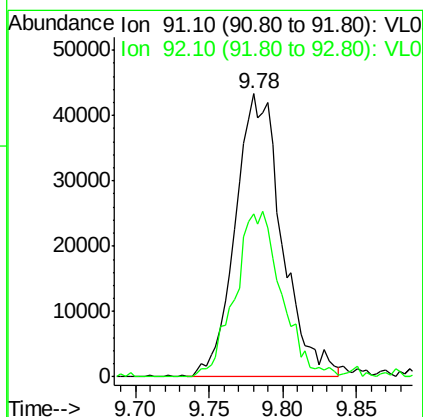
Acq: 5 Oct 2021 18:37

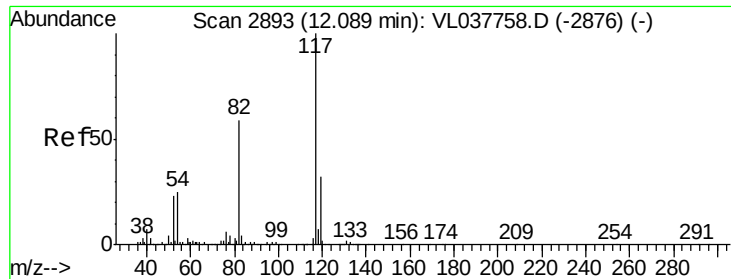
Tgt Ion: 91 Resp: 95582

Ion Ratio Lower Upper

91 100

92 0.0 48.4 72.6#





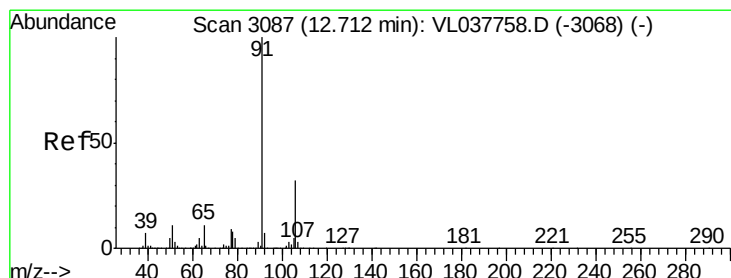
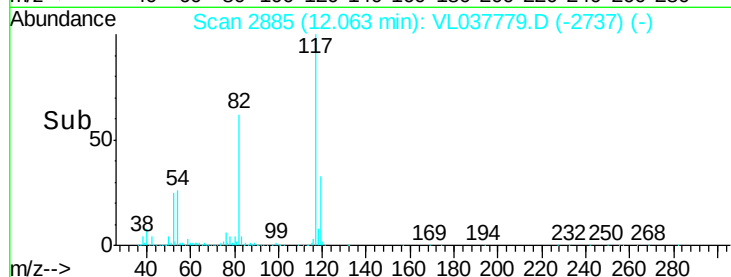
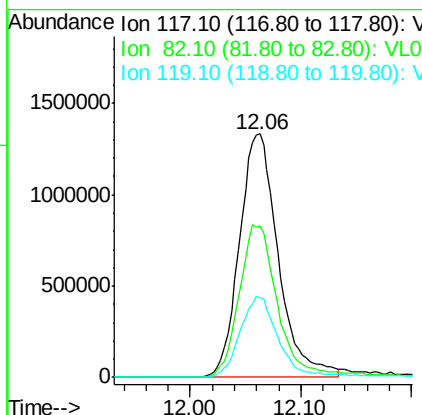
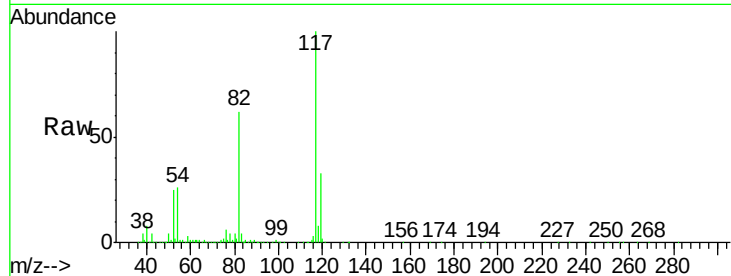
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. -0.03 min
Lab File: VL037779.D
Acq: 5 Oct 2021 18:37

Instrument :
MSVOA_L
ClientSampleId :
C0P27

Tgt Ion: 117 Resp: 3258159
Ion Ratio Lower Upper
117 100
82 64.7 52.2 78.2
119 34.4 26.0 39.0

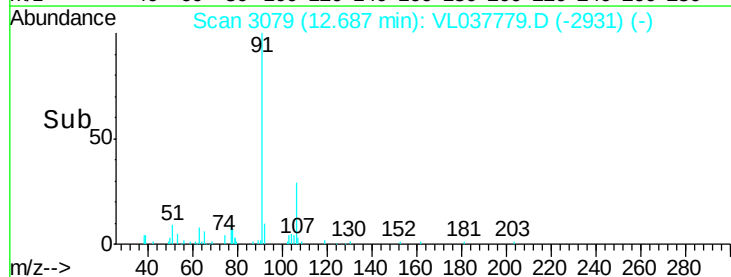
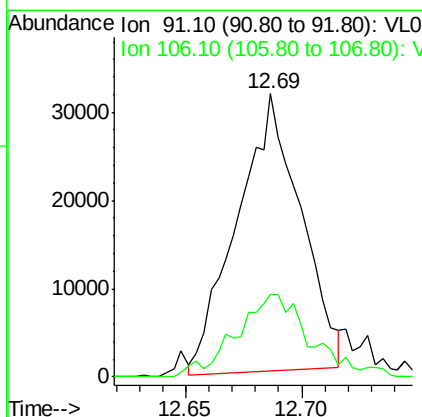
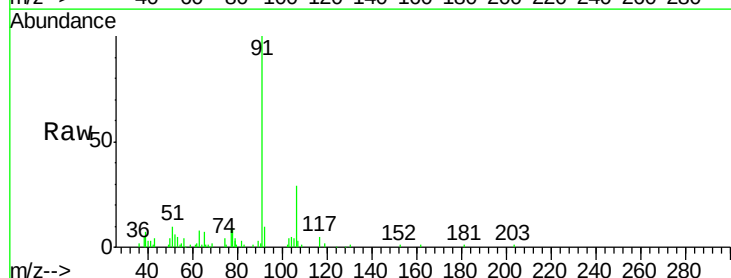
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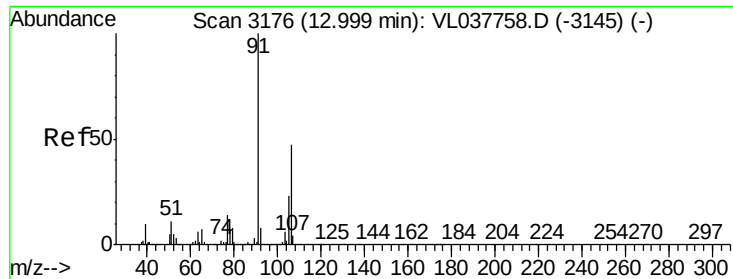
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10/11/2021 7:36:21 PM



#58
Ethyl Benzene
Concen: 0.138 ppbv
RT: 12.69 min Scan# 3079
Delta R.T. -0.03 min
Lab File: VL037779.D
Acq: 5 Oct 2021 18:37

Tgt Ion: 91 Resp: 60178
Ion Ratio Lower Upper
91 100
106 26.5 25.3 37.9





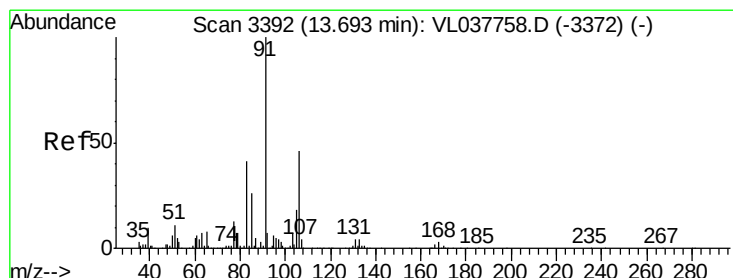
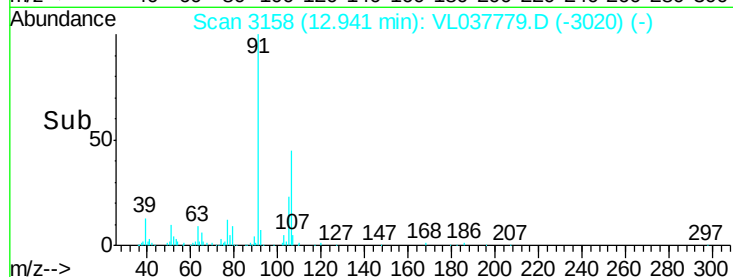
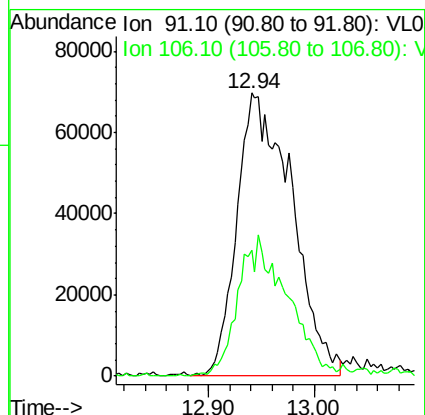
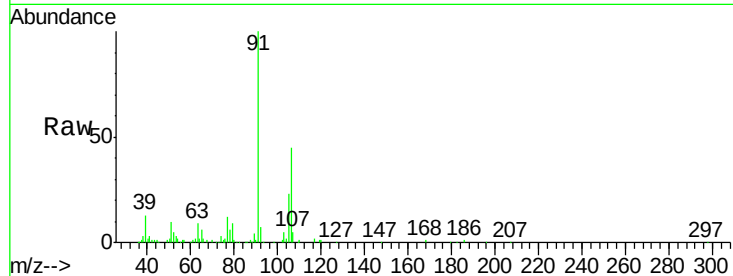
#59
m/p-Xylene
Concen: 0.668 ppbv m
RT: 12.94 min Scan# 3158
Delta R.T. -0.06 min
Lab File: VL037779.D
Acq: 5 Oct 2021 18:37

Instrument :
MSVOA_L
ClientSampleId :
C0P27

Tgt Ion: 91 Resp: 250787
Ion Ratio Lower Upper
91 100
106 0.0 36.7 55.1#

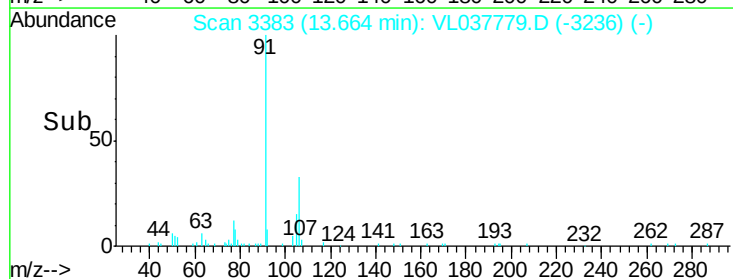
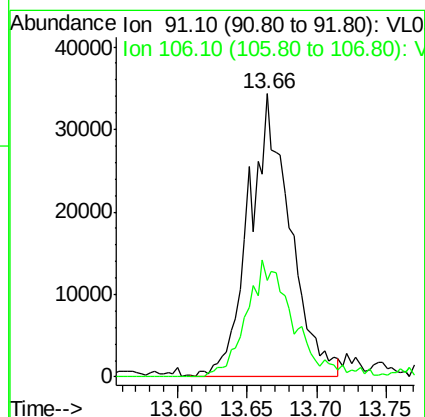
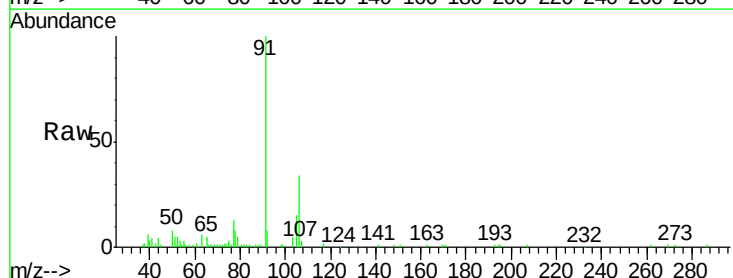
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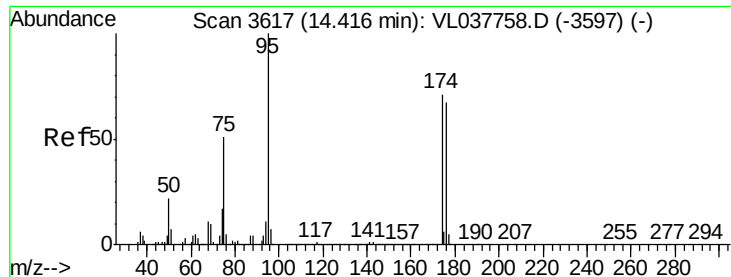
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10/11/2021 7:36:21 PM



#60
o-Xylene
Concen: 0.197 ppbv m
RT: 13.66 min Scan# 3383
Delta R.T. -0.03 min
Lab File: VL037779.D
Acq: 5 Oct 2021 18:37

Tgt Ion: 91 Resp: 70893
Ion Ratio Lower Upper
91 100
106 46.9 23.5 70.5





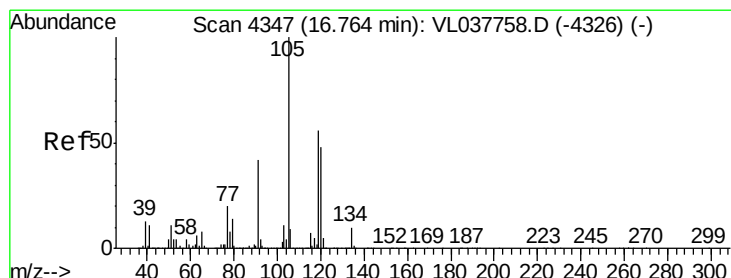
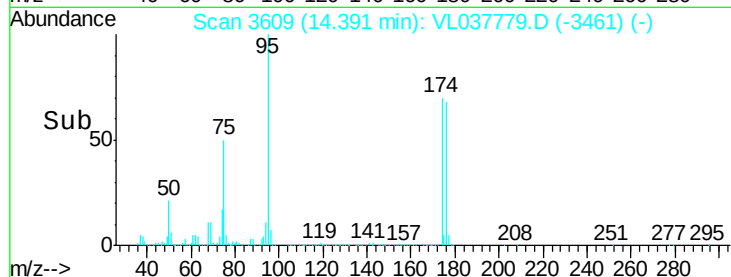
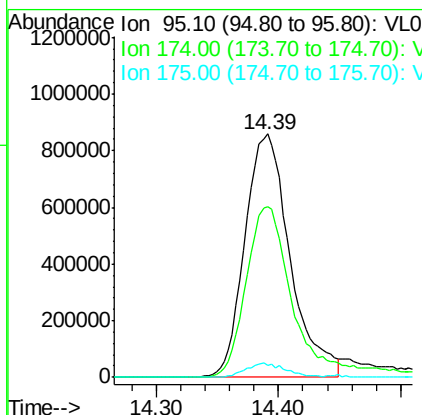
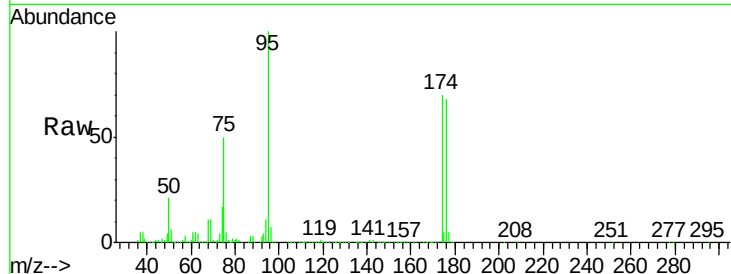
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.652 ppbv
 RT: 14.39 min Scan# 3609
 Delta R.T. -0.03 min
 Lab File: VL037779.D
 Acq: 5 Oct 2021 18:37

Instrument :
 MSVOA_L
 ClientSampled :
 C0P27

Tgt Ion: 95 Resp: 2199187
 Ion Ratio Lower Upper
 95 100
 174 76.7 57.8 86.6
 175 5.1 4.7 7.1

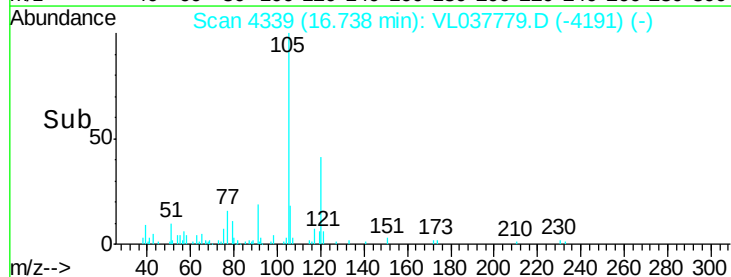
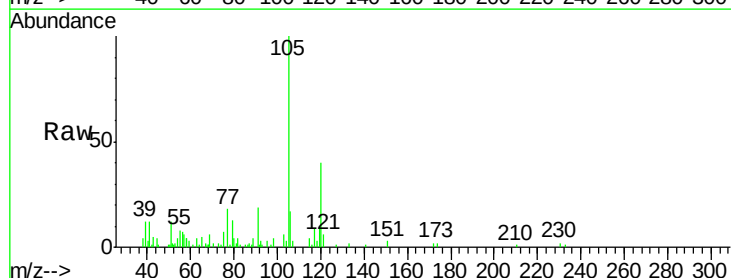
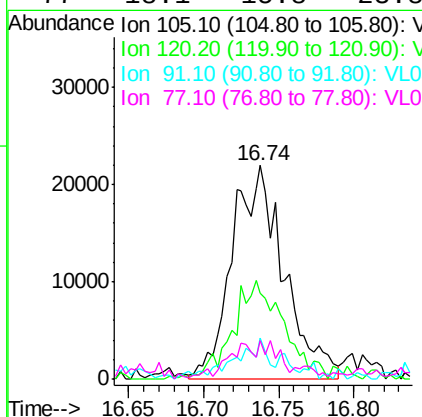
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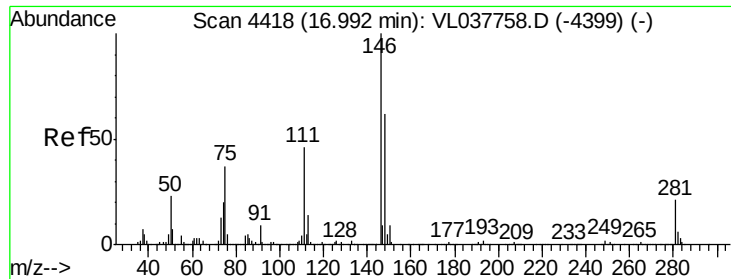
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 10/11/2021 7:36:21 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.135 ppbv m
 RT: 16.74 min Scan# 4339
 Delta R.T. -0.03 min
 Lab File: VL037779.D
 Acq: 5 Oct 2021 18:37

Tgt Ion: 105 Resp: 52666
 Ion Ratio Lower Upper
 105 100
 120 40.1 38.4 57.6
 91 19.0 34.2 51.2#
 77 18.1 15.8 23.8





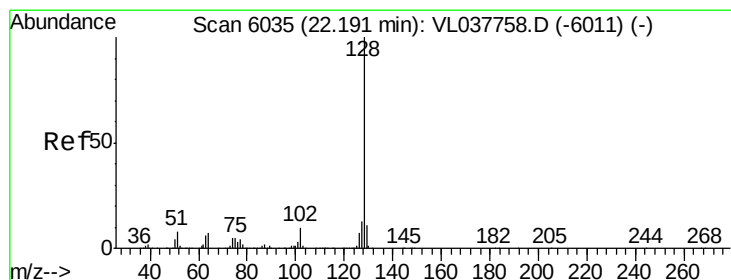
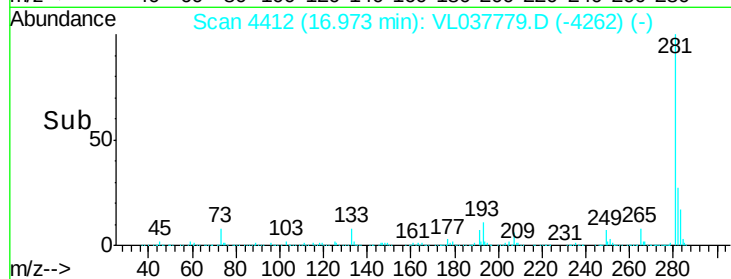
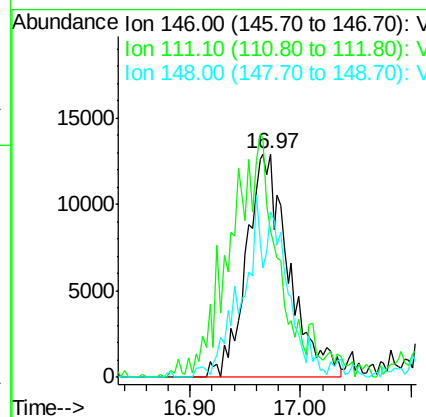
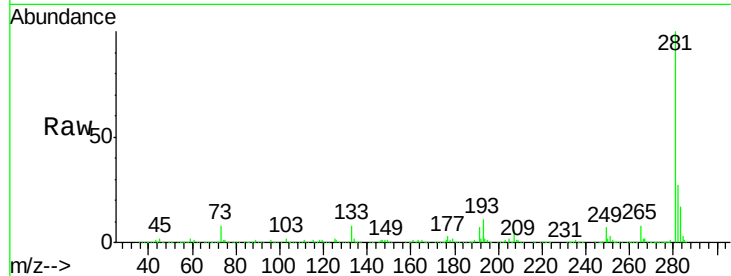
#75
 1,3-Dichlorobenzene
 Concen: 0.143 ppbv m
 RT: 16.97 min Scan# 4412
 Delta R.T. -0.02 min
 Lab File: VL037779.D
 Acq: 5 Oct 2021 18:37

Instrument :
 MSVOA_L
 ClientSampled :
 C0P27

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	34612		
111	128.8	22.8	68.4#	
148	79.2	32.8	98.3	

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#79
 Naphthalene
 Concen: 0.169 ppbv m
 RT: 22.17 min Scan# 6028
 Delta R.T. -0.02 min
 Lab File: VL037779.D
 Acq: 5 Oct 2021 18:37

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	40307		
127	8.5	10.1	15.1#	
129	12.2	9.1	13.7	

