

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037792.D
 Acq On : 6 Oct 2021 3:07
 Operator : SY/AP
 Sample : M4012-16
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P11

Manual Integrations
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 10/11/2021 7:36:47 PM

Quant Time: Oct 06 06:40:11 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-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	5.64	49	1248020	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3578261	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3116582	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.38	95	2179168	10.00	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	22080	0.111	ppbv	98
4) Chloromethane	3.12	50	10645	0.121	ppbv #	34
9) Propene	3.01	41	22250m	0.252	ppbv	
10) Heptane	8.10	43	41242m	0.206	ppbv	
11) Trichlorofluoromethane	3.93	101	39997	0.225	ppbv	100
13) Ethanol	3.59	45	461057	63.896	ppbv	82
15) Acetone	3.83	43	854510	7.627	ppbv	100
17) tert-Butyl alcohol	4.28	59	23971m	0.208	ppbv	
19) Isopropyl Alcohol	3.94	45	5455767	78.275	ppbv #	99
20) Methylene Chloride	4.33	84	72153	1.275	ppbv	90
26) Hexane	5.67	57	141021	0.911	ppbv #	74
27) Carbon Disulfide	4.53	76	402087	2.931	ppbv	97
34) 2-Butanone	5.22	43	160118	1.108	ppbv #	90
50) 4-Methyl-2-Pentanone	8.73	43	46802m	0.249	ppbv	
52) Tetrachloroethene	11.20	164	2481236	20.867	ppbv	97
53) Toluene	9.78	91	410474	1.212	ppbv	98
58) Ethyl Benzene	12.68	91	101055m	0.241	ppbv	
59) m/p-Xylene	12.94	91	165126m	0.460	ppbv	
60) o-Xylene	13.66	91	74208	0.216	ppbv	99
74) 1,2,4-Trimethylbenzene	16.73	105	88281m	0.237	ppbv	
75) 1,3-Dichlorobenzene	16.97	146	366184m	1.585	ppbv	
79) Naphthalene	22.16	128	41488m	0.182	ppbv	

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

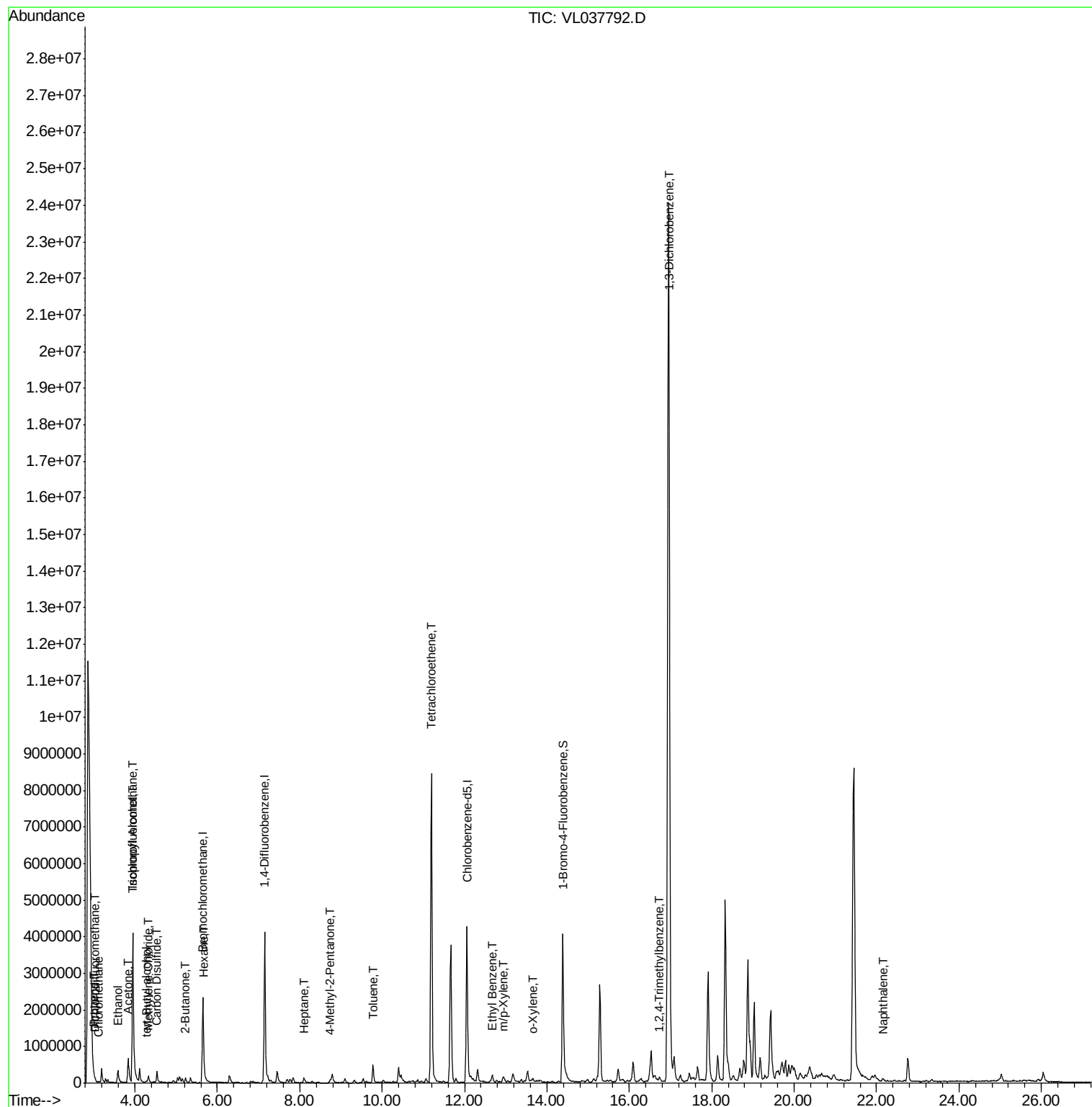
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
Data File : VL037792.D
Acq On : 6 Oct 2021 3:07
Operator : SY/AP
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Misc : 400mL/MSVOA_L
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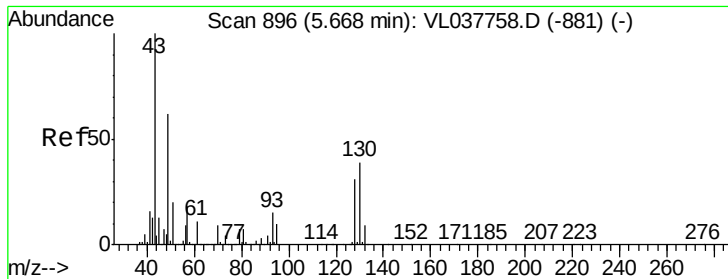
Instrument :
MSVOA_L
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Quant Time: Oct 06 06:40:11 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.03 min

Lab File: VL037792.D

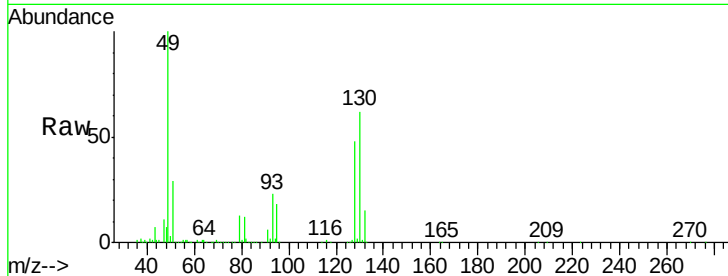
Acq: 6 Oct 2021 3:07

Instrument :

MSVOA_L

ClientSampled :

C0P11



Tgt Ion: 49 Resp: 1248020

Ion Ratio Lower Upper

49 100

128 52.0 27.1 81.3

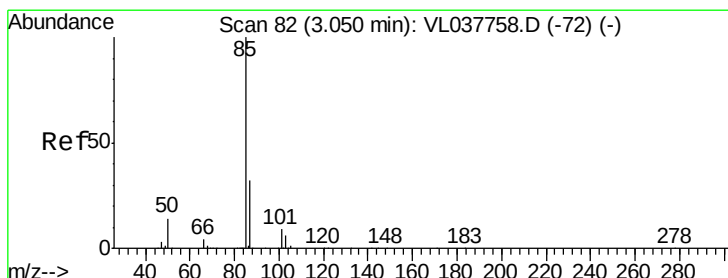
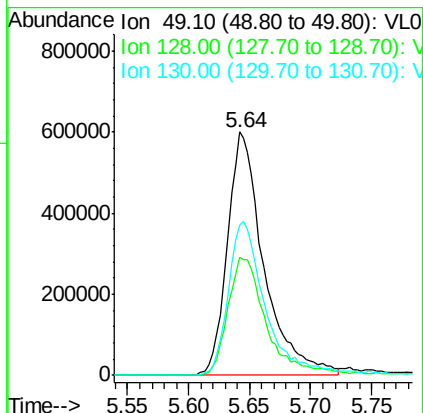
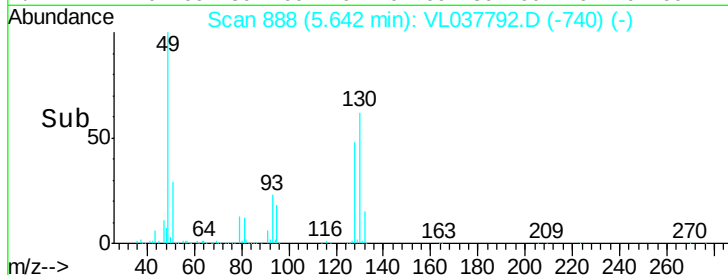
130 66.3 33.2 99.6

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#2

Dichlorodifluoromethane

Concen: 0.111 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL037792.D

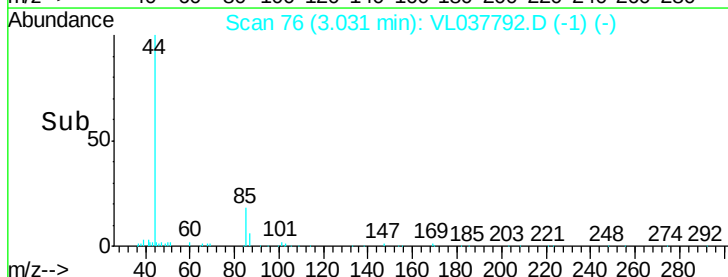
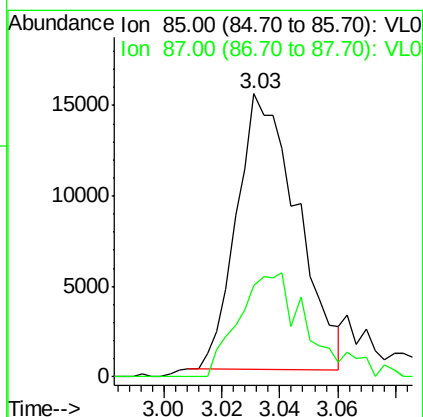
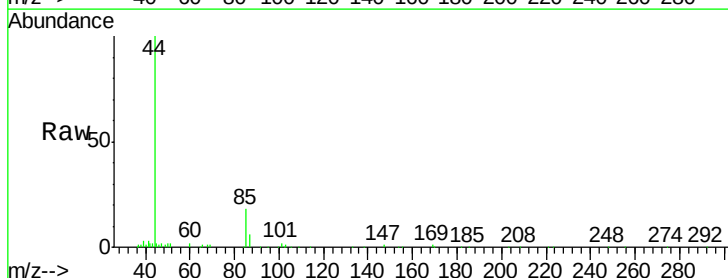
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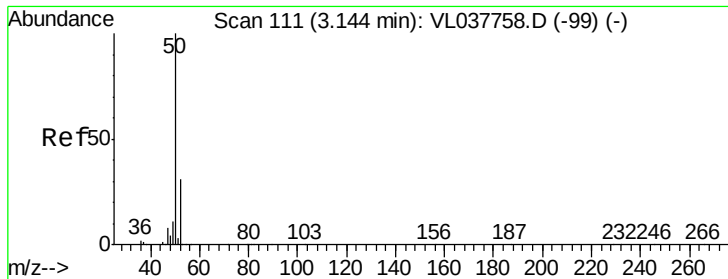
Tgt Ion: 85 Resp: 22080

Ion Ratio Lower Upper

85 100

87 33.3 25.7 38.5





#4

Chloromethane

Concen: 0.121 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.02 min

Lab File: VL037792.D

Acq: 6 Oct 2021 3:07

Instrument :

MSVOA_L

ClientSampled :

C0P11

Tgt Ion: 50 Resp: 10645

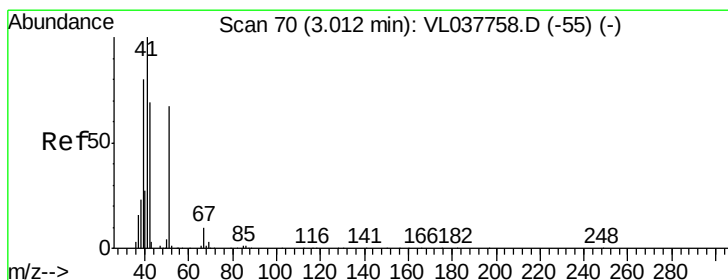
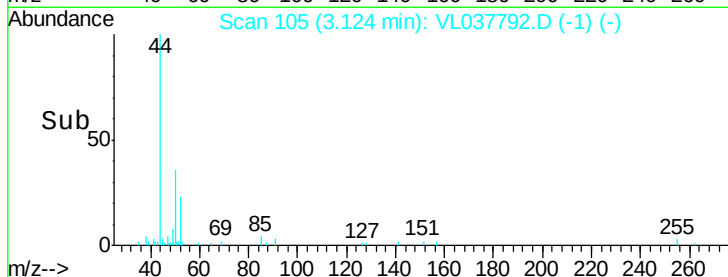
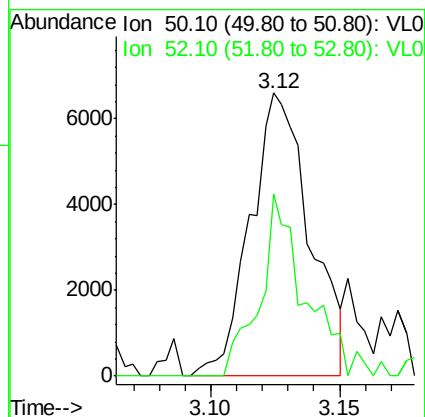
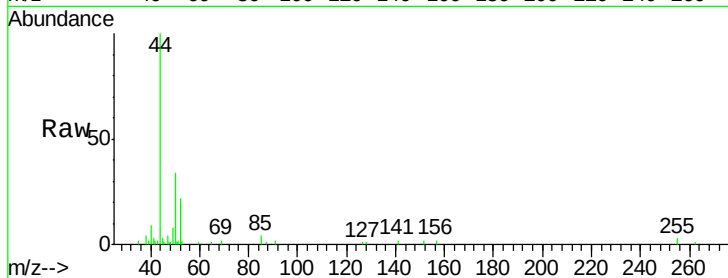
Ion Ratio Lower Upper

50 100

52 66.5 24.4 36.6#

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#9

Propene

Concen: 0.252 ppbv m

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037792.D

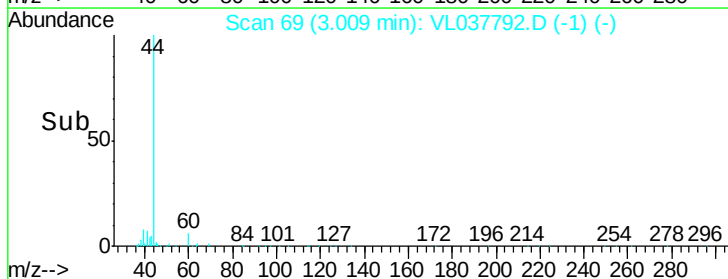
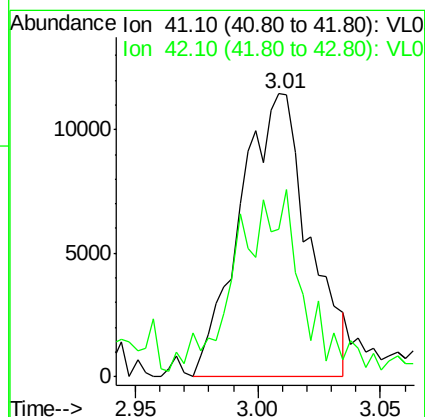
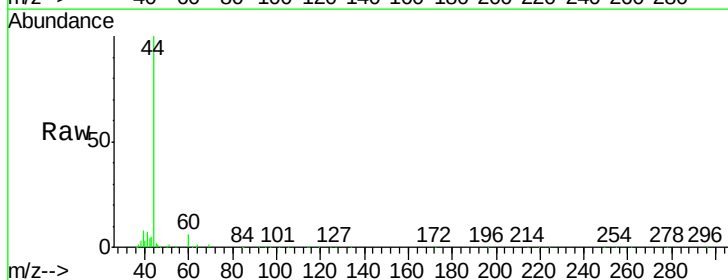
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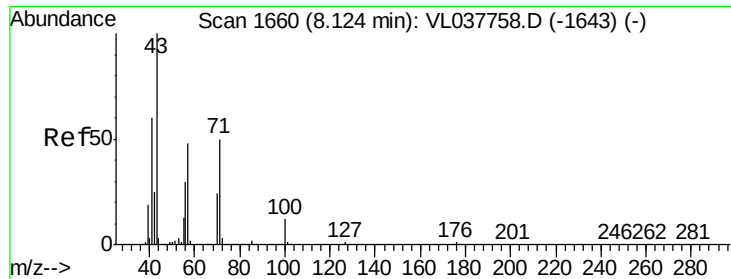
Tgt Ion: 41 Resp: 22250

Ion Ratio Lower Upper

41 100

42 0.0 54.2 81.2#





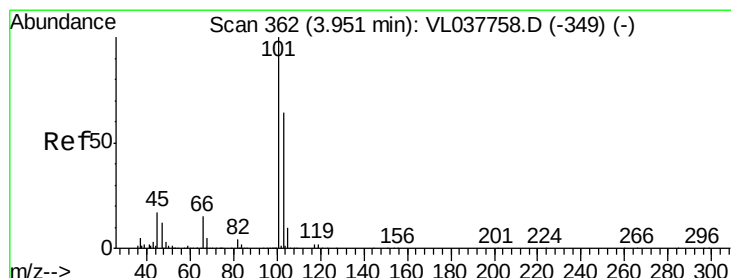
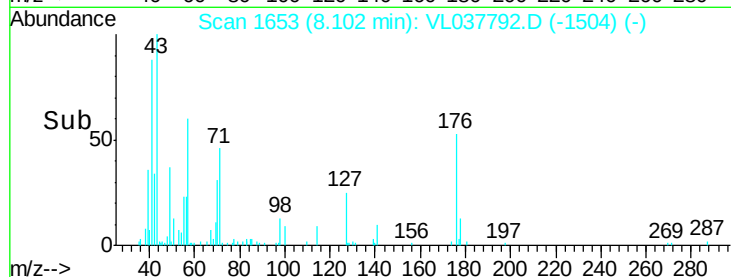
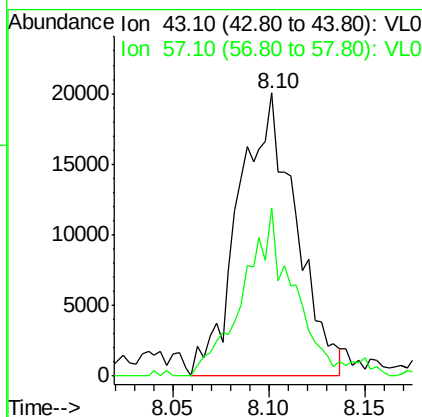
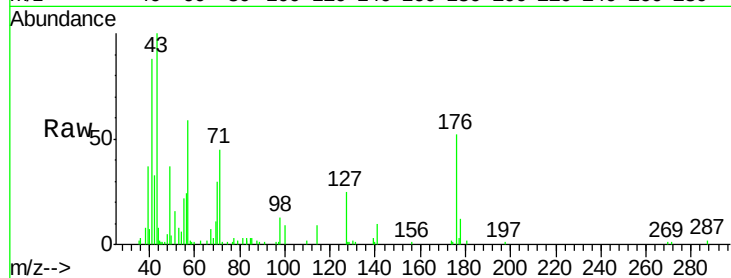
#10
 Heptane
 Concen: 0.206 ppbv m
 RT: 8.10 min Scan# 1653
 Delta R.T. -0.02 min
 Lab File: VL037792.D
 Acq: 6 Oct 2021 3:07

Instrument :
 MSVOA_L
 ClientSampled :
 C0P11

Tgt Ion: 43 Resp: 41242
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.0 60.0#

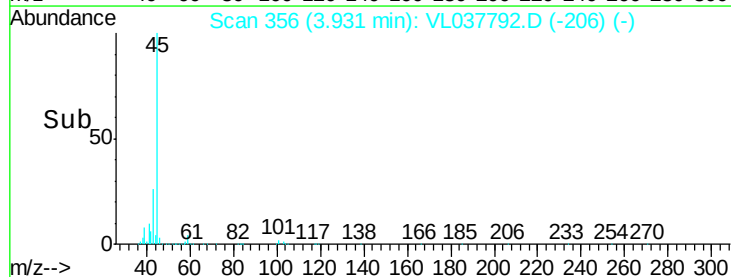
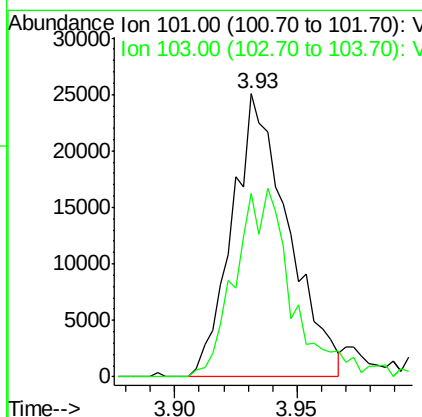
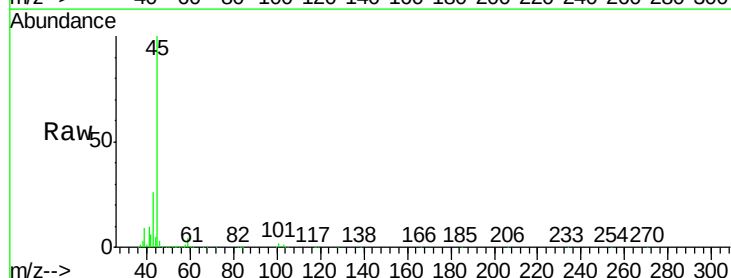
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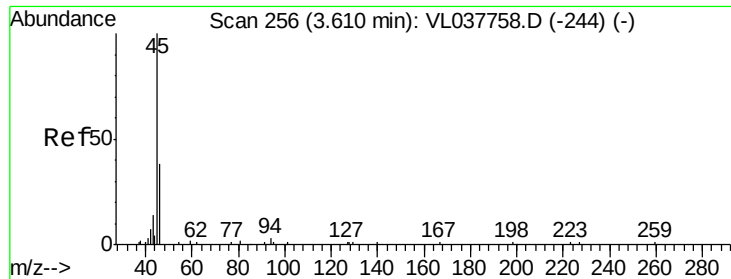
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#11
 Trichlorofluoromethane
 Concen: 0.225 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. -0.02 min
 Lab File: VL037792.D
 Acq: 6 Oct 2021 3:07

Tgt Ion: 101 Resp: 39997
 Ion Ratio Lower Upper
 101 100
 103 64.6 51.5 77.3





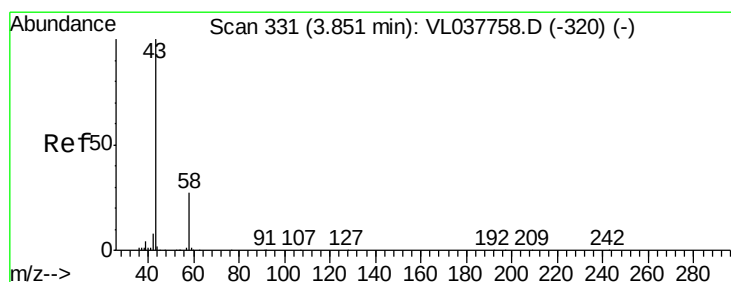
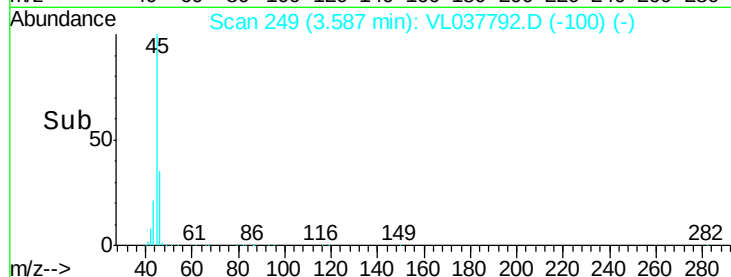
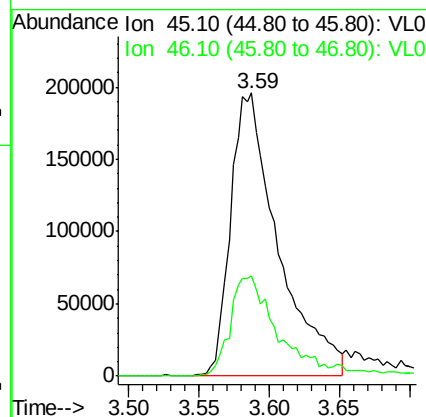
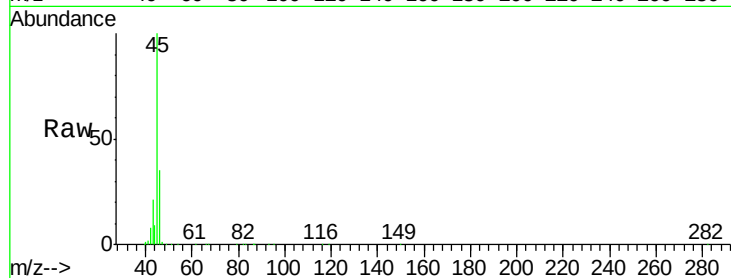
#13
Ethanol
Concen: 63.896 ppbv
RT: 3.59 min Scan# 249
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument :
MSVOA_L
ClientSampled :
C0P11

Tgt Ion: 45 Resp: 461057
Ion Ratio Lower Upper
45 100
46 37.8 20.2 81.0

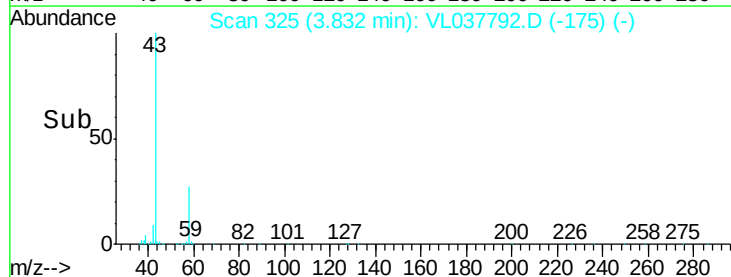
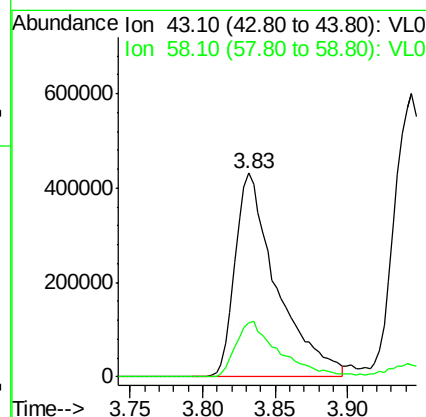
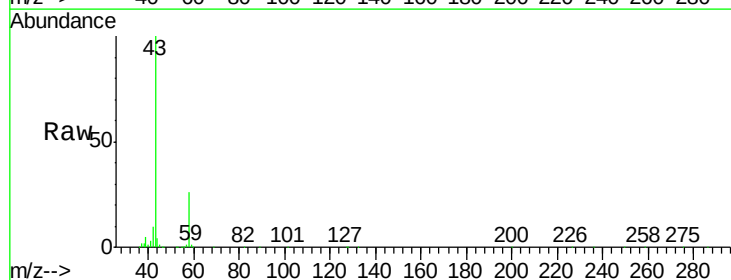
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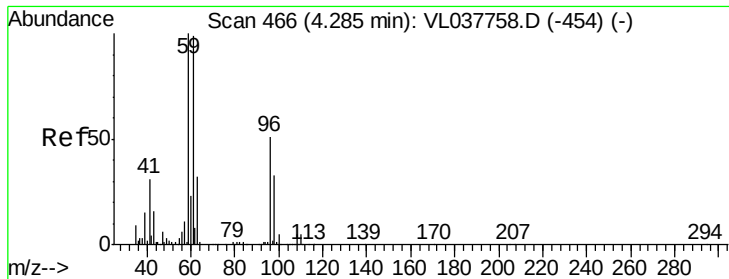
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#15
Acetone
Concen: 7.627 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 43 Resp: 854510
Ion Ratio Lower Upper
43 100
58 28.8 23.0 34.6





#17

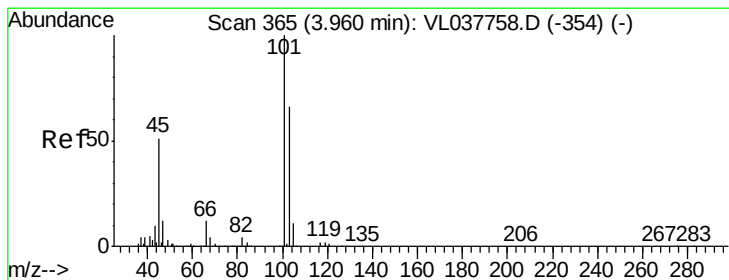
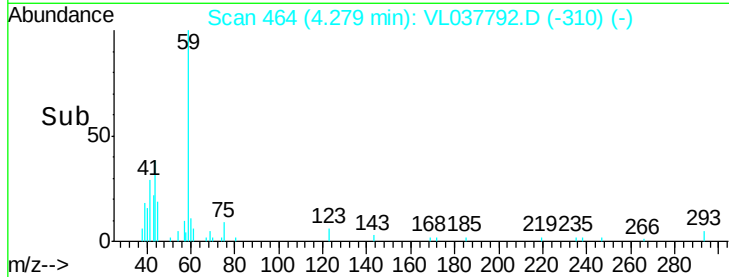
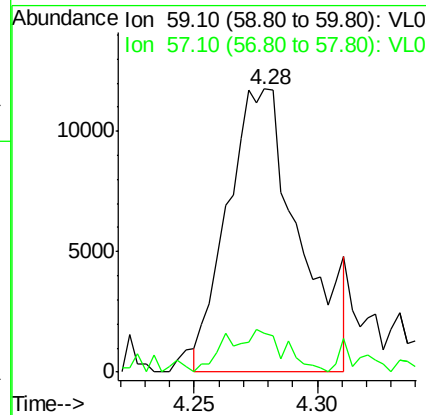
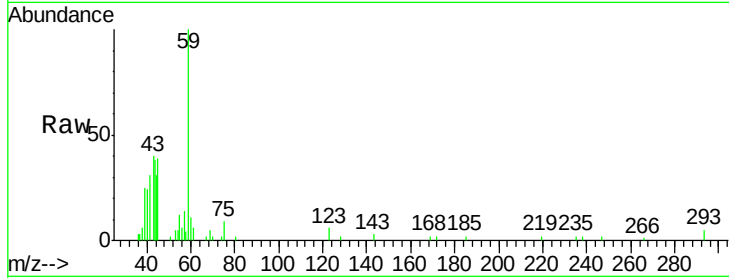
tert-Butyl alcohol
Concen: 0.208 ppbv m
RT: 4.28 min Scan# 464
Delta R.T. -0.01 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument :
MSVOA_L
ClientSampled :
C0P11

Tgt Ion: 59 Resp: 23971
Ion Ratio Lower Upper
59 100
57 86.0 8.6 13.0#

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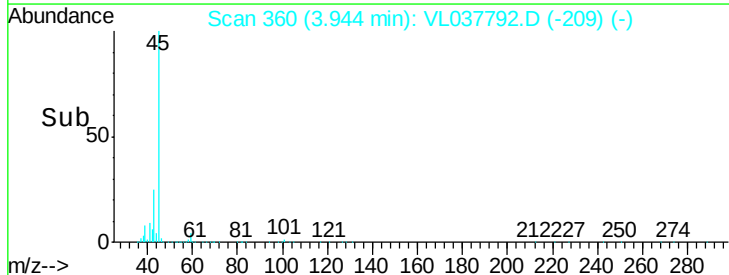
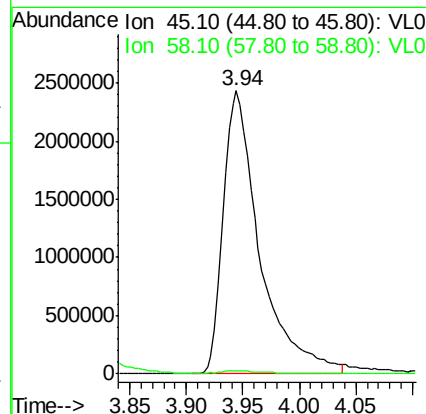
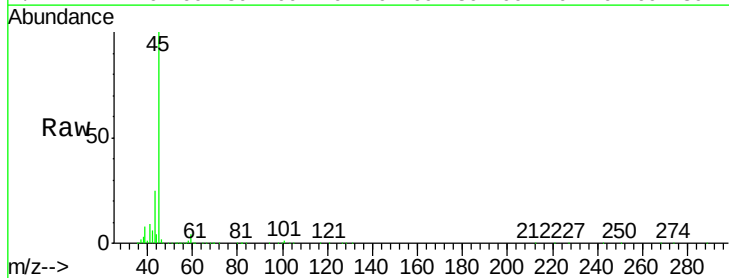
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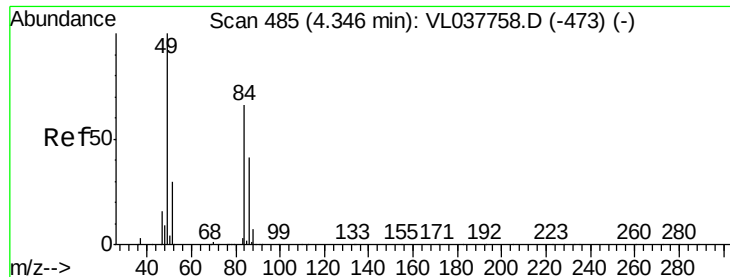


#19

Isopropyl Alcohol
Concen: 78.275 ppbv
RT: 3.94 min Scan# 360
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 45 Resp: 5455767
Ion Ratio Lower Upper
45 100
58 1.7 1.1 1.7#





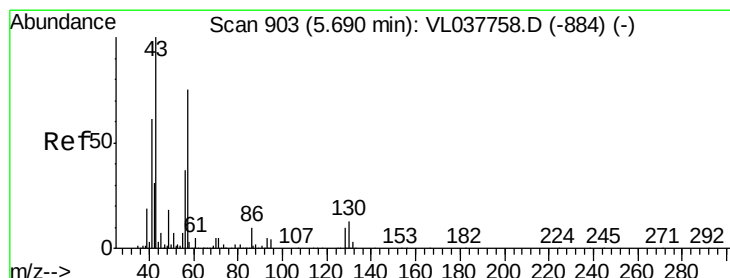
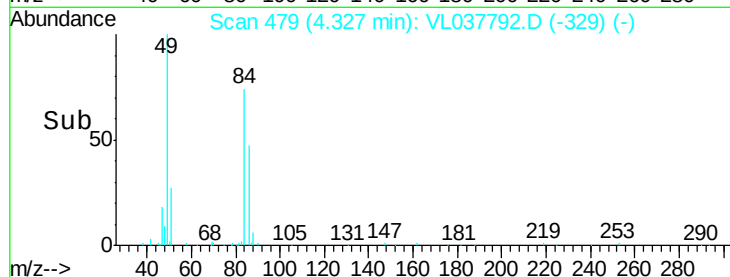
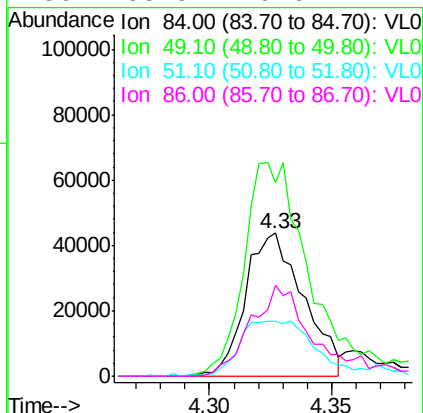
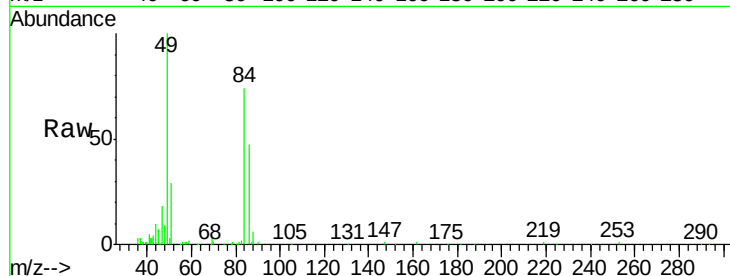
#20
Methylene Chloride
Concen: 1.275 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument :
MSVOA_L
ClientSampled :
C0P11

Tgt Ion	Ratio	Lower	Upper
84	100		
49	134.7	120.7	181.1
51	37.4	36.2	54.4
86	63.9	49.6	74.4

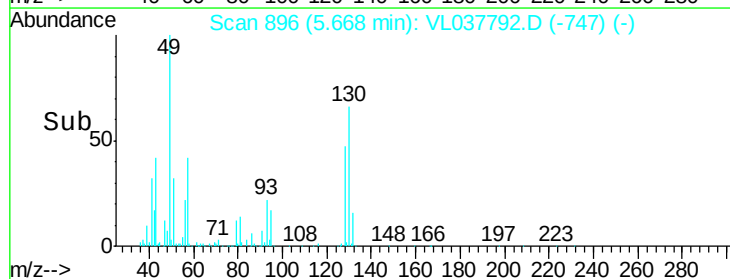
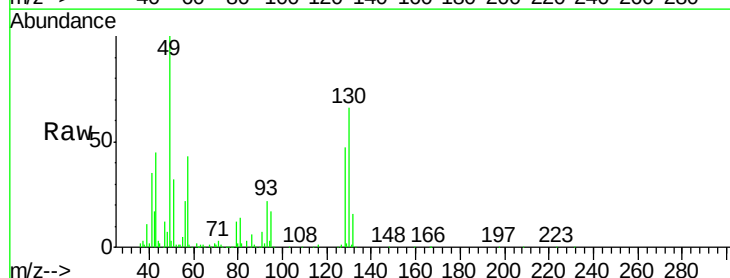
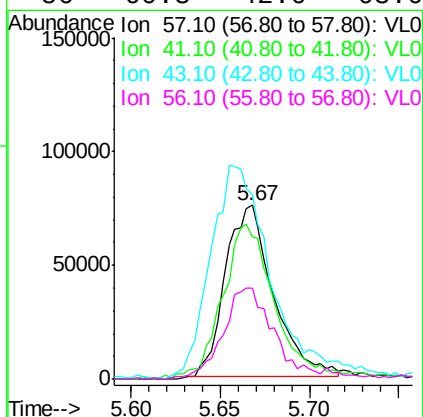
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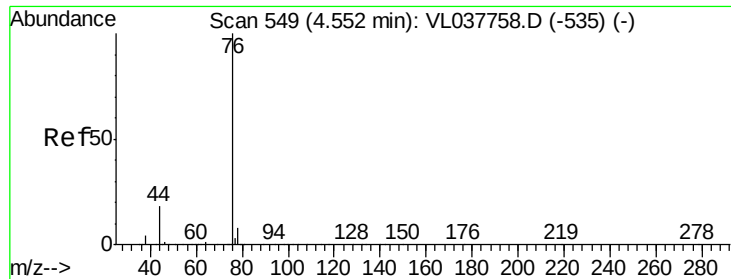
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#26
Hexane
Concen: 0.911 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion	Ratio	Lower	Upper
57	100		
41	103.3	69.6	104.4
43	161.2	171.4	257.0#
56	60.3	42.0	63.0





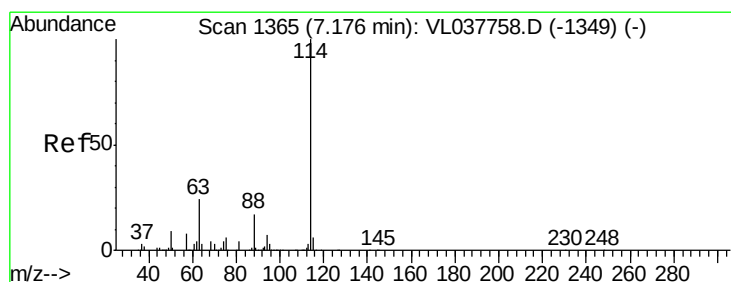
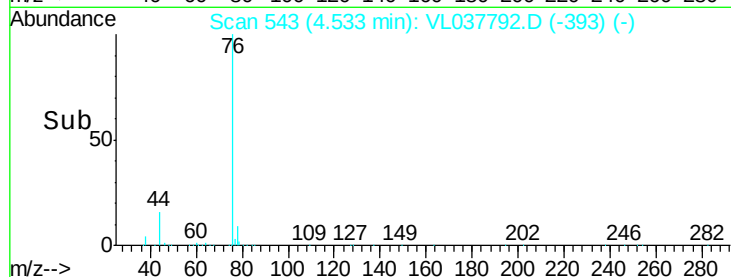
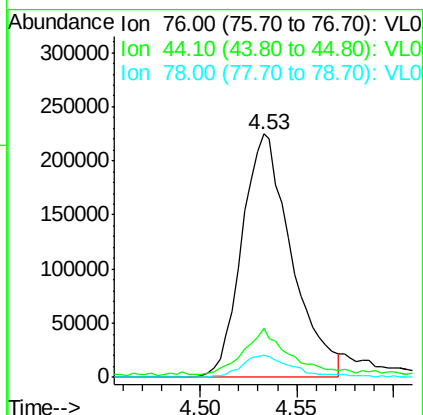
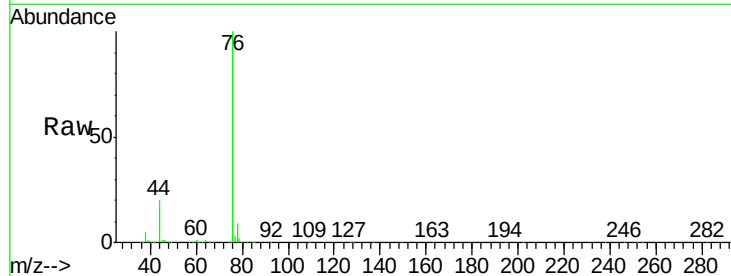
#27
Carbon Disulfide
Concen: 2.931 ppbv
RT: 4.53 min Scan# 543
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument :
MSVOA_L
ClientSampleId :
C0P11

Tgt Ion	Ratio	Lower	Upper
76	100		
44	19.9	14.3	21.5
78	10.1	7.8	11.6

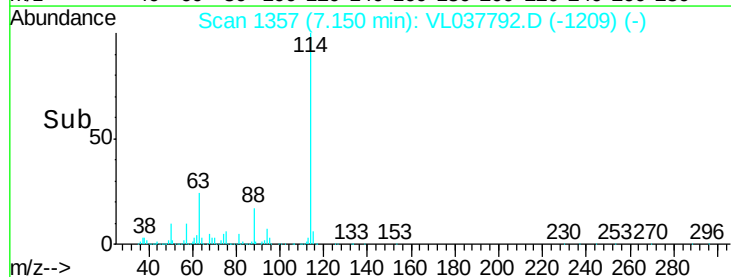
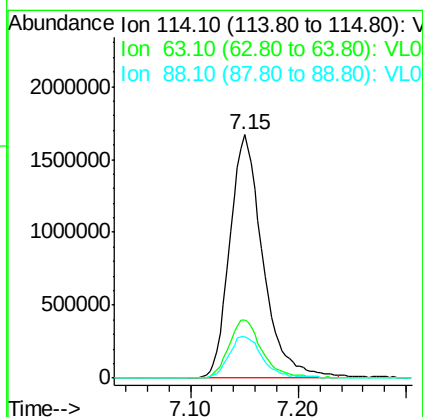
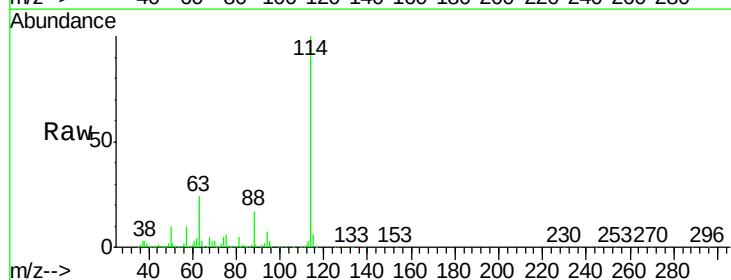
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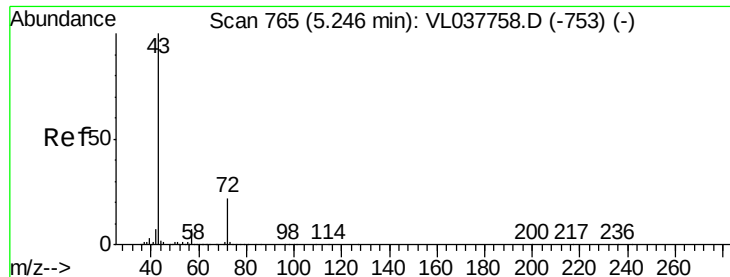
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. -0.03 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.4	29.2
88	17.8	14.4	21.6





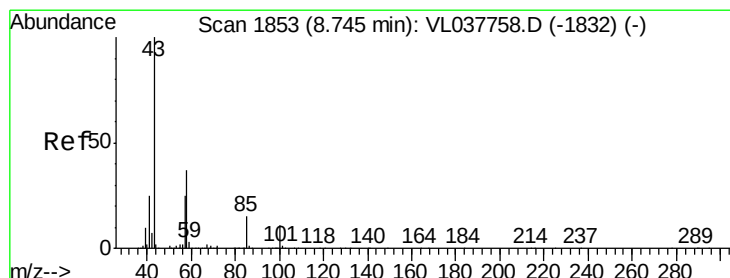
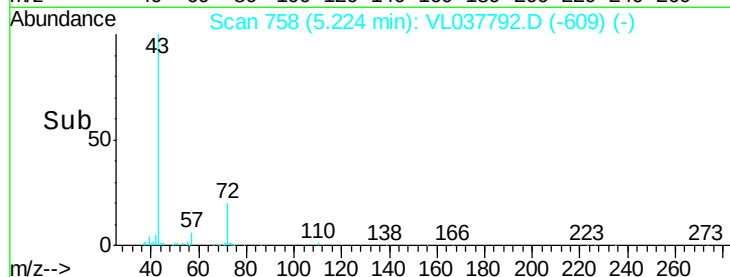
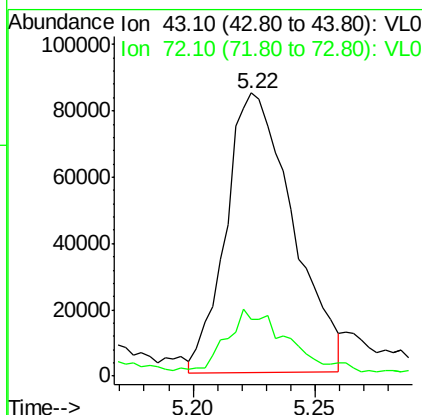
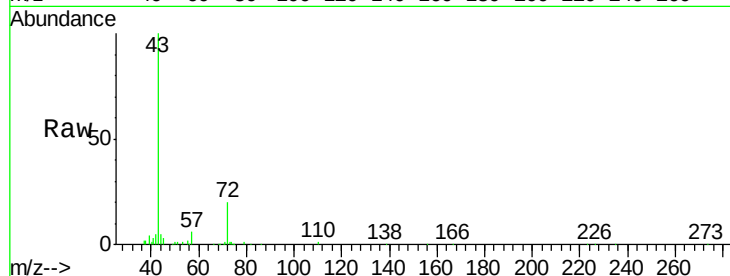
#34
 2-Butanone
 Concen: 1.108 ppbv
 RT: 5.22 min Scan# 758
 Delta R.T. -0.02 min
 Lab File: VL037792.D
 Acq: 6 Oct 2021 3:07

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P11

Tgt Ion: 43 Resp: 160118
 Ion Ratio Lower Upper
 43 100
 72 27.3 18.2 27.2#

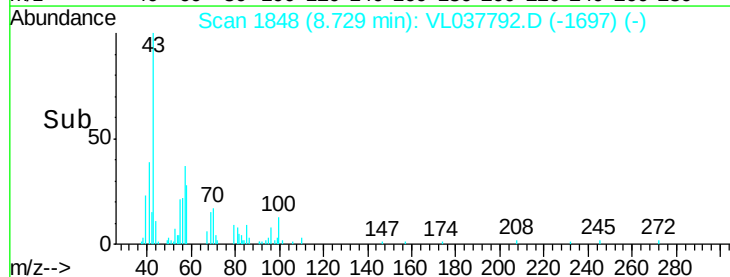
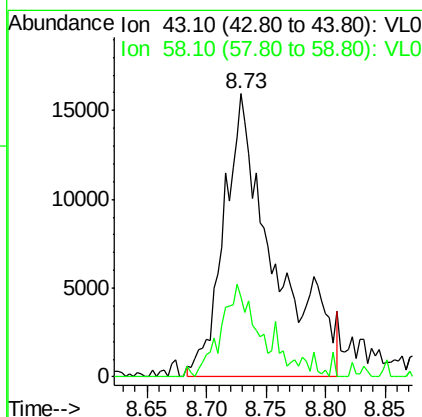
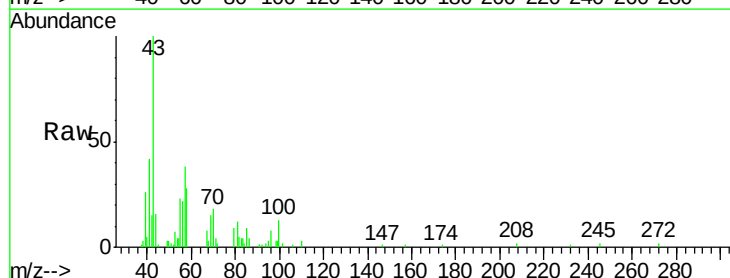
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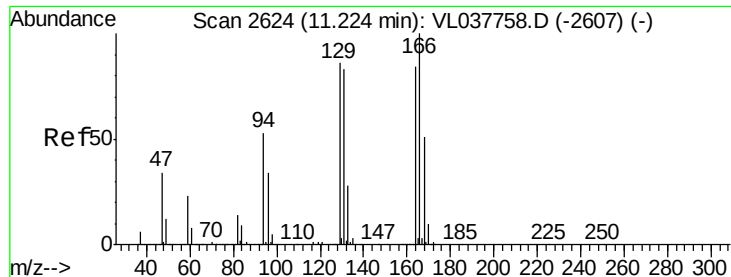
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#50
 4-Methyl-2-Pentanone
 Concen: 0.249 ppbv m
 RT: 8.73 min Scan# 1848
 Delta R.T. -0.02 min
 Lab File: VL037792.D
 Acq: 6 Oct 2021 3:07

Tgt Ion: 43 Resp: 46802
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.4 44.0#





#52

Tetrachloroethene

Concen: 20.867 ppbv

RT: 11.20 min Scan# 2616

Delta R.T. -0.03 min

Lab File: VL037792.D

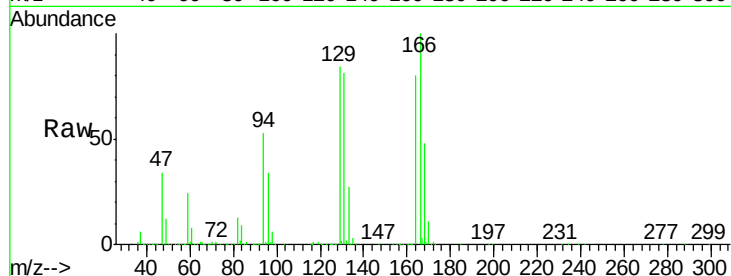
Acq: 6 Oct 2021 3:07

Instrument :

MSVOA_L

ClientSampleId :

C0P11



Tgt Ion:164 Resp: 2481236

Ion Ratio Lower Upper

164 100

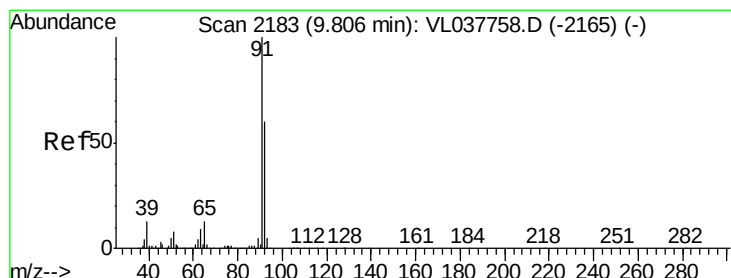
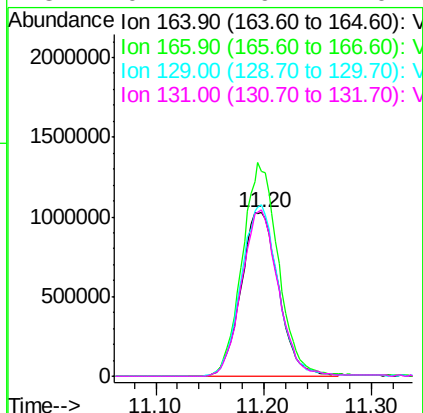
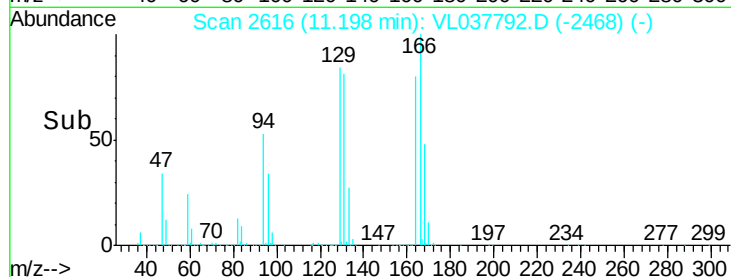
166 125.0 95.4 143.2

129 105.1 82.2 123.4

131 101.4 79.4 119.2

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#53

Toluene

Concen: 1.212 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.03 min

Lab File: VL037792.D

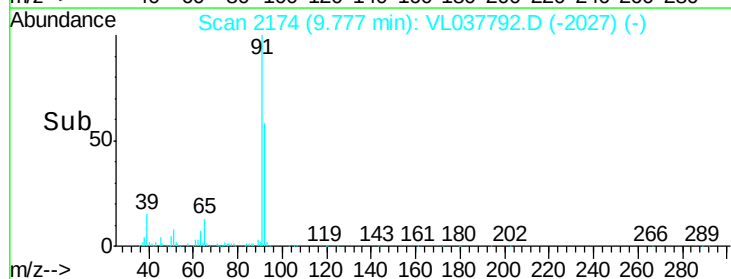
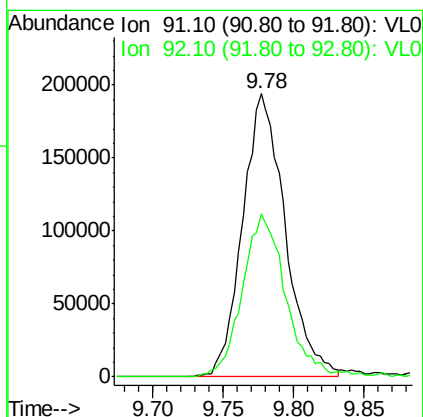
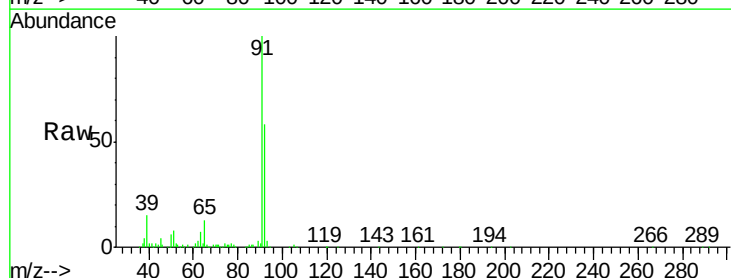
Acq: 6 Oct 2021 3:07

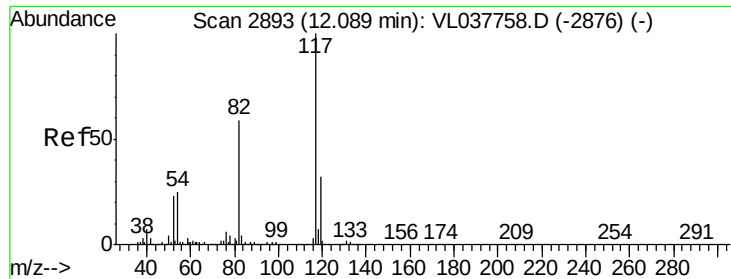
Tgt Ion: 91 Resp: 410474

Ion Ratio Lower Upper

91 100

92 59.1 48.4 72.6





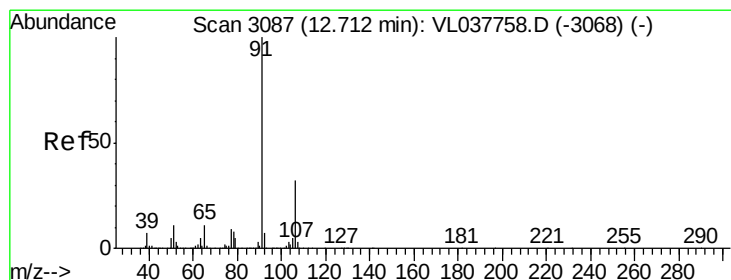
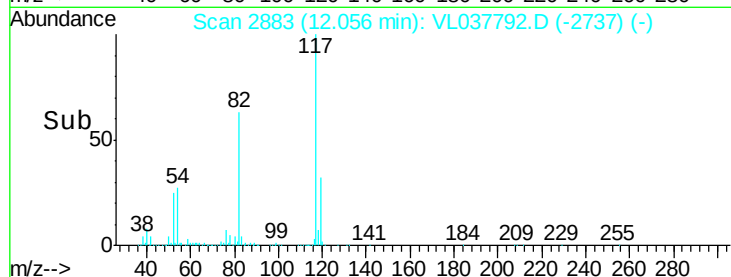
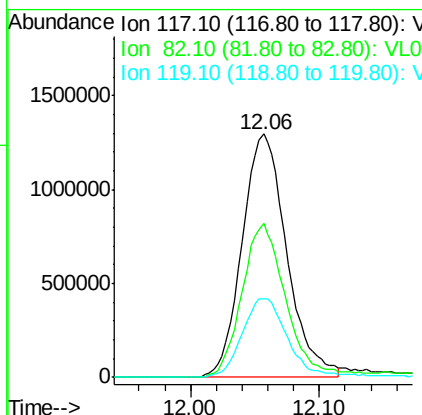
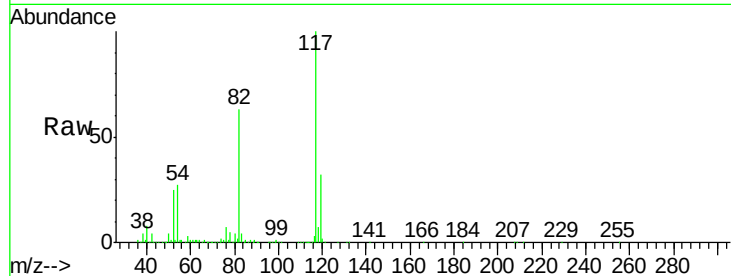
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2883
Delta R.T. -0.03 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument :
MSVOA_L
ClientSampleId :
C0P11

Tgt Ion: 117 Resp: 3116582
Ion Ratio Lower Upper
117 100
82 65.8 52.2 78.2
119 34.4 26.0 39.0

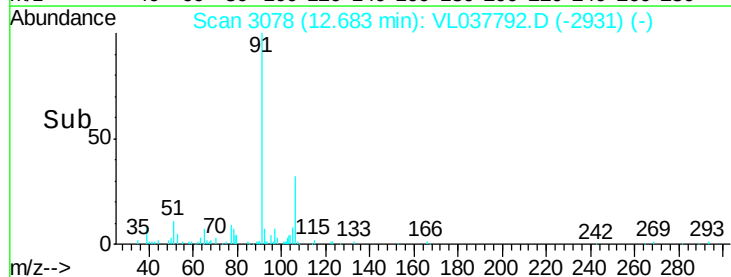
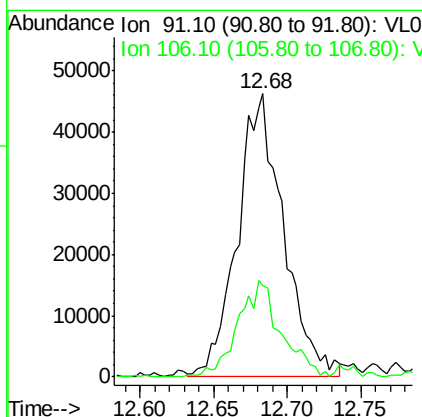
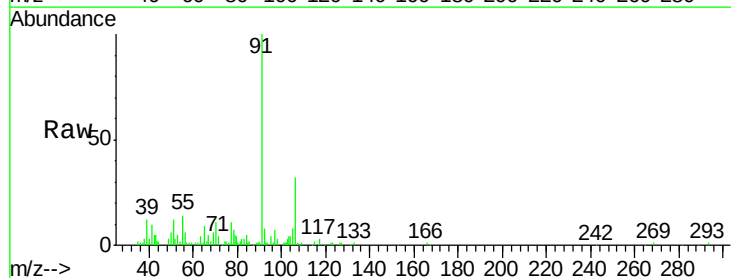
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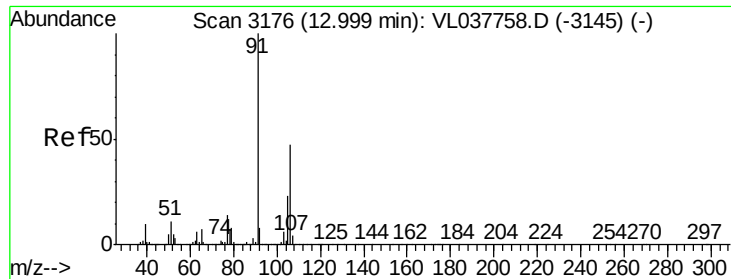
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#58
Ethyl Benzene
Concen: 0.241 ppbv m
RT: 12.68 min Scan# 3078
Delta R.T. -0.03 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 91 Resp: 101055
Ion Ratio Lower Upper
91 100
106 32.2 25.3 37.9





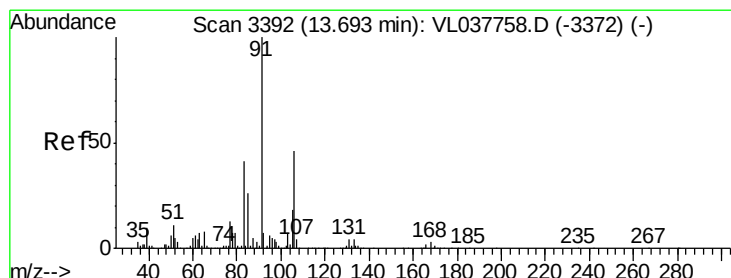
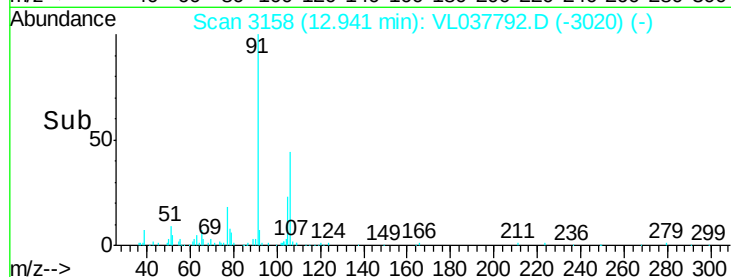
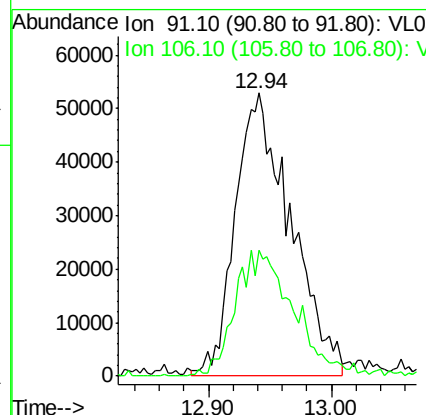
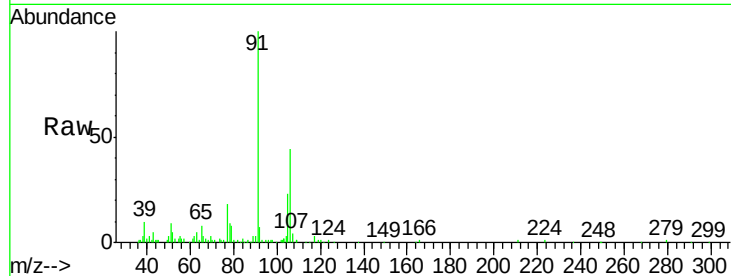
#59
m/p-Xylene
Concen: 0.460 ppbv m
RT: 12.94 min Scan# 3158
Delta R.T. -0.06 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument :
MSVOA_L
ClientSampleId :
C0P11

Tgt Ion: 91 Resp: 165126
Ion Ratio Lower Upper
91 100
106 0.0 36.7 55.1#

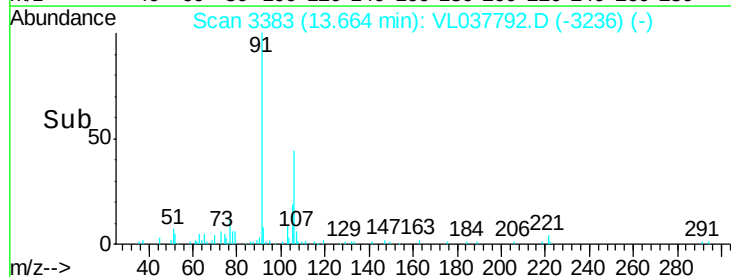
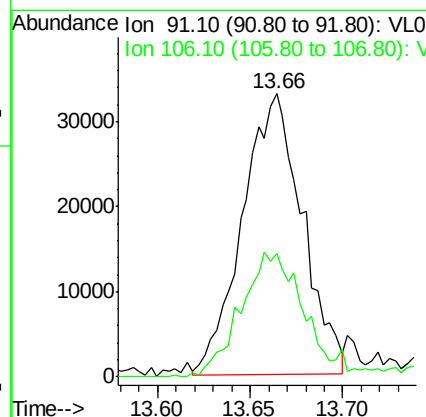
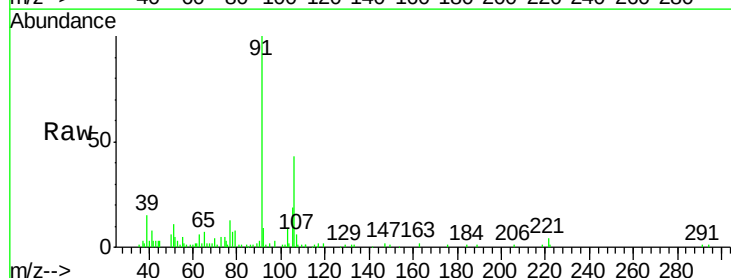
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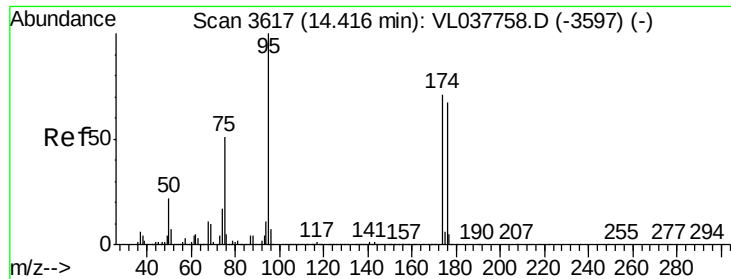
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#60
o-Xylene
Concen: 0.216 ppbv
RT: 13.66 min Scan# 3383
Delta R.T. -0.03 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 91 Resp: 74208
Ion Ratio Lower Upper
91 100
106 47.4 23.5 70.5





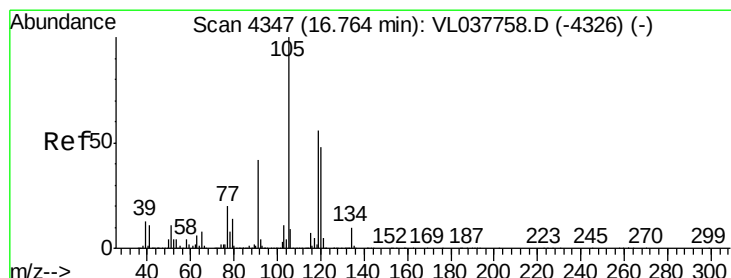
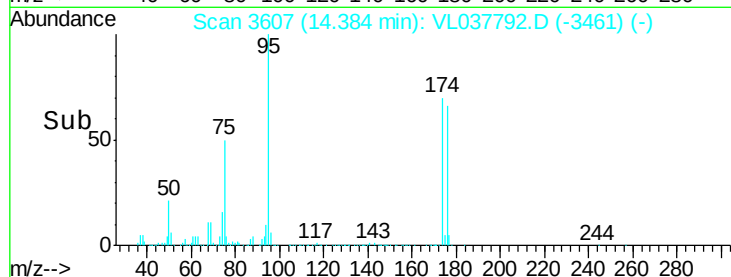
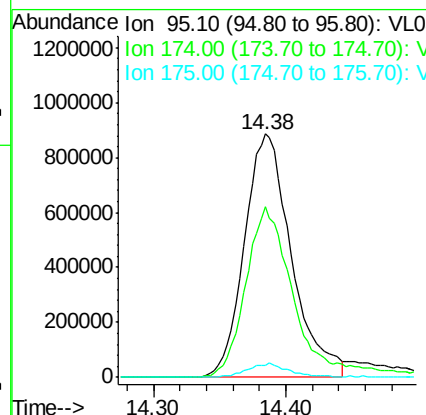
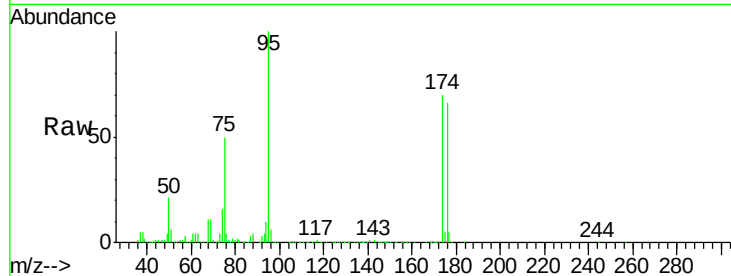
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.999 ppbv
 RT: 14.38 min Scan# 3607
 Delta R.T. -0.03 min
 Lab File: VL037792.D
 Acq: 6 Oct 2021 3:07

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P11

Tgt Ion: 95 Resp: 2179168
 Ion Ratio Lower Upper
 95 100
 174 75.4 57.8 86.6
 175 5.6 4.7 7.1

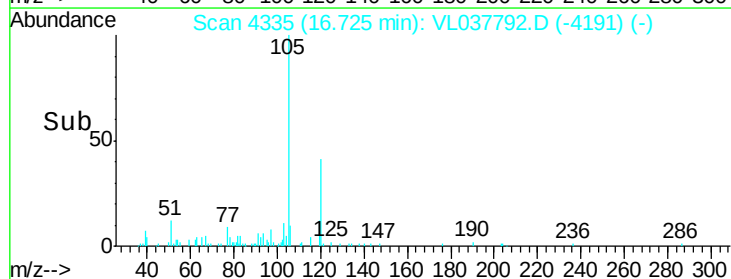
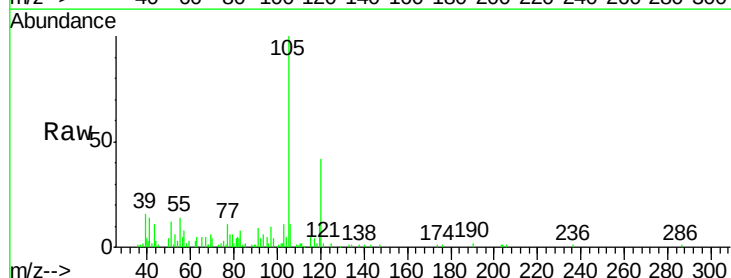
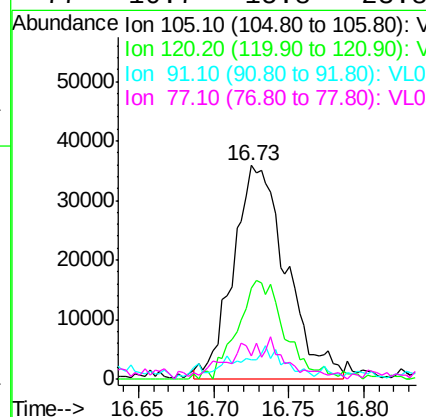
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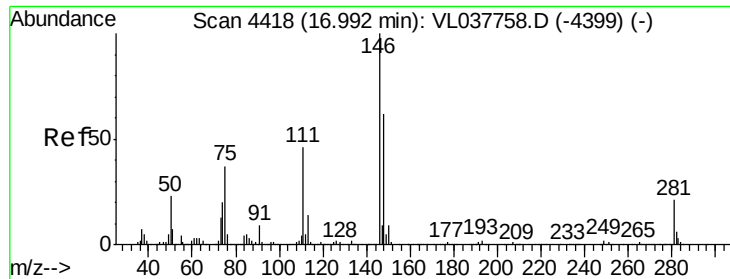
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.237 ppbv m
 RT: 16.73 min Scan# 4335
 Delta R.T. -0.04 min
 Lab File: VL037792.D
 Acq: 6 Oct 2021 3:07

Tgt Ion: 105 Resp: 88281
 Ion Ratio Lower Upper
 105 100
 120 42.5 38.4 57.6
 91 8.8 34.2 51.2#
 77 10.7 15.8 23.8#





#75

1,3-Dichlorobenzene

Concen: 1.585 ppbv m

RT: 16.97 min Scan# 4411

Delta R.T. -0.02 min

Lab File: VL037792.D

Acq: 6 Oct 2021 3:07

Instrument :

MSVOA_L

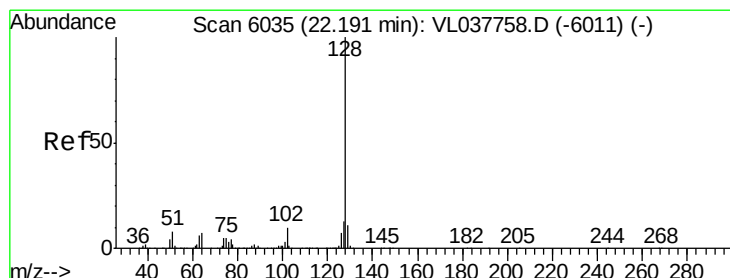
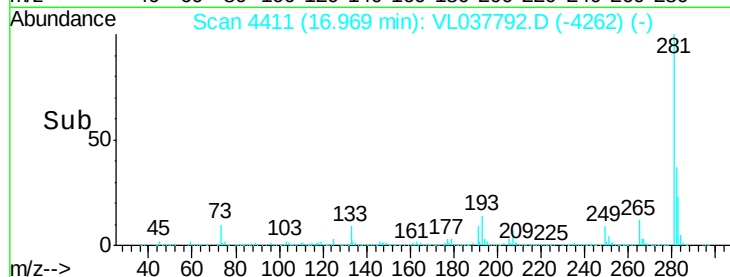
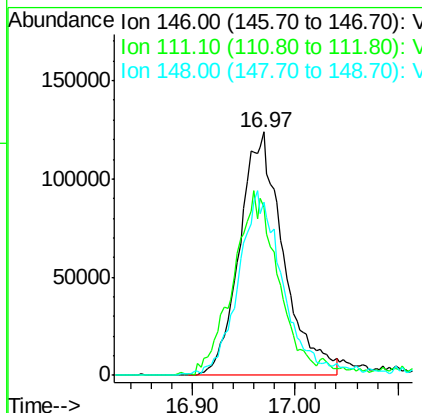
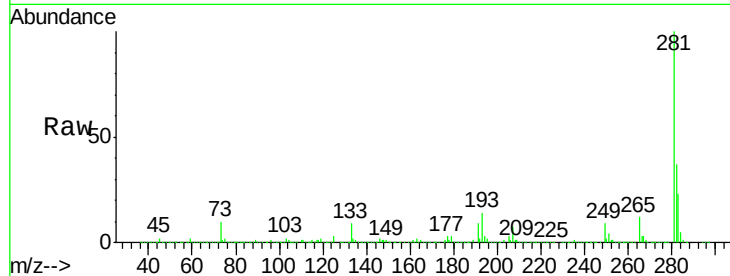
ClientSampleId :

C0P11

Tgt Ion:	146	Resp:	366184
Ion Ratio	Lower	Upper	
146	100		
111	80.7	22.8	68.4#
148	78.2	32.8	98.3

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#79

Naphthalene

Concen: 0.182 ppbv m

RT: 22.16 min Scan# 6024

Delta R.T. -0.04 min

Lab File: VL037792.D

Acq: 6 Oct 2021 3:07

Tgt Ion:	128	Resp:	41488
Ion Ratio	Lower	Upper	
128	100		
127	12.1	10.1	15.1
129	6.1	9.1	13.7#

