

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
 Data File : VL037799.D
 Acq On : 7 Oct 2021 17:07
 Operator : SY/AP
 Sample : M4079-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P18

Manual Integrations
 APPROVED

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 10/14/2021 1:19:40 PM

Quant Time: Oct 08 10:39:50 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	5.65	49	1210145	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	3757386	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3043346	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2149182	10.10	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	27792m	0.144	ppbv	
3) Chlorodifluoromethane	2.98	51	22773	0.098	ppbv	93
9) Propene	3.01	41	38092	0.445	ppbv	97
11) Trichlorofluoromethane	3.94	101	36312m	0.211	ppbv	
13) Ethanol	3.60	45	224021m	32.018	ppbv	
15) Acetone	3.84	43	1282979	11.810	ppbv	92
17) tert-Butyl alcohol	4.30	59	70504m	0.630	ppbv	
19) Isopropyl Alcohol	3.97	45	54702m	0.809	ppbv	
20) Methylene Chloride	4.34	84	153370m	2.794	ppbv	
26) Hexane	5.67	57	222282	1.481	ppbv #	46
27) Carbon Disulfide	4.54	76	28677m	0.216	ppbv	
29) Chloroform	5.74	83	4177294	19.469	ppbv	98
34) 2-Butanone	5.24	43	211540	1.395	ppbv	100
52) Tetrachloroethene	11.21	164	185874	1.489	ppbv	96
53) Toluene	9.79	91	77160	0.217	ppbv	88
58) Ethyl Benzene	12.69	91	102249	0.250	ppbv	97
59) m/p-Xylene	12.95	91	416258m	1.187	ppbv	
60) o-Xylene	13.67	91	134215	0.399	ppbv	94
74) 1,2,4-Trimethylbenzene	16.74	105	58878m	0.162	ppbv	
79) Naphthalene	22.18	128	44800m	0.201	ppbv	

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

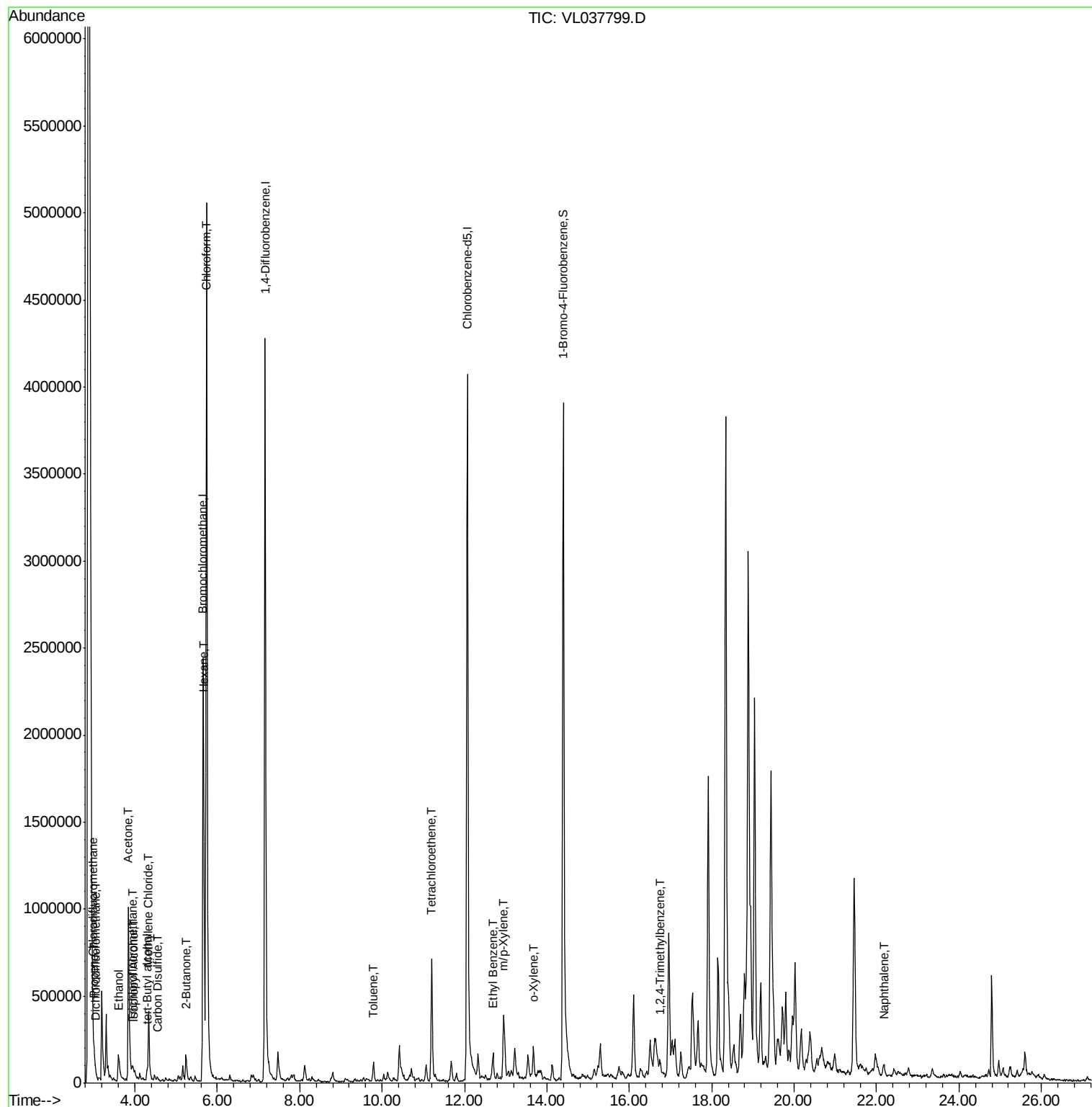
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
Data File : VL037799.D
Acq On : 7 Oct 2021 17:07
Operator : SY/AP
Sample : M4079-07
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

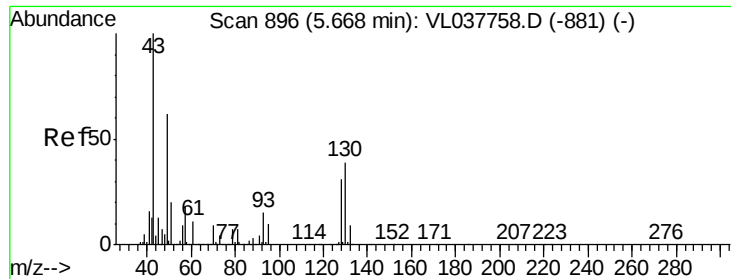
Instrument :
MSVOA_L
ClientSampleId :
C0P18

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Quant Time: Oct 08 10:39:50 2021
Quant Method : Z:\VOASRV\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# 892

Delta R.T. -0.01 min

Lab File: VL037799.D

Acq: 7 Oct 2021 17:07

Instrument :

MSVOA_L

ClientSampled :

C0P18

Tgt Ion: 49 Resp: 1210145

Ion Ratio Lower Upper

49 100

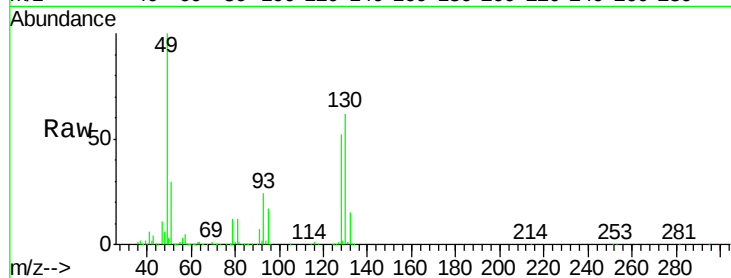
128 57.7 27.1 81.3

130 70.3 33.2 99.6

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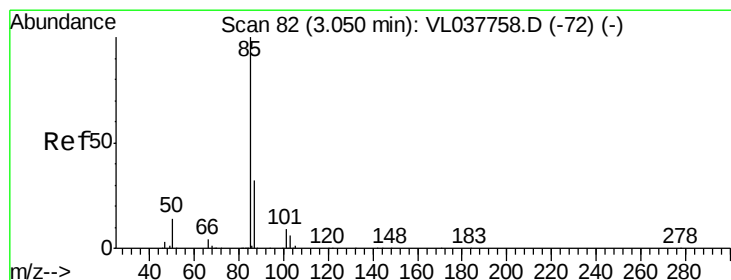
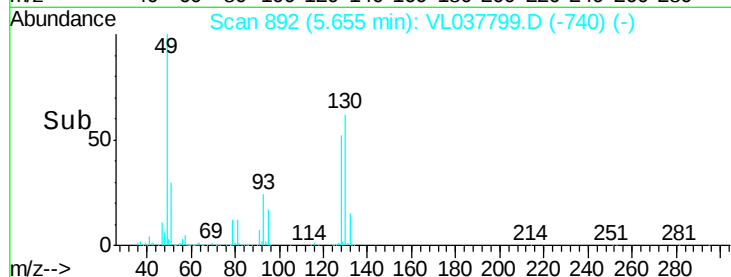
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.65

Time-->



#2

Dichlorodifluoromethane

Concen: 0.144 ppbv m

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL037799.D

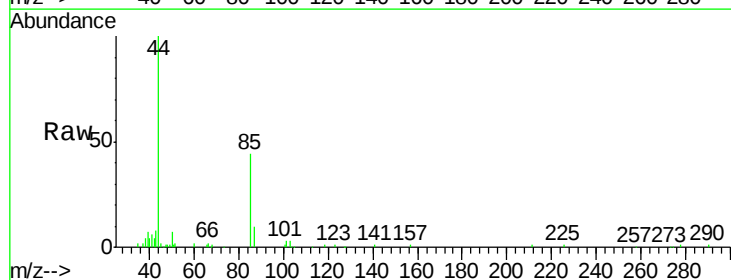
Acq: 7 Oct 2021 17:07

Tgt Ion: 85 Resp: 27792

Ion Ratio Lower Upper

85 100

87 23.5 25.7 38.5#

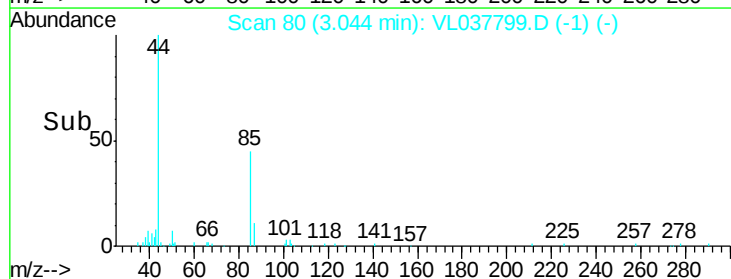


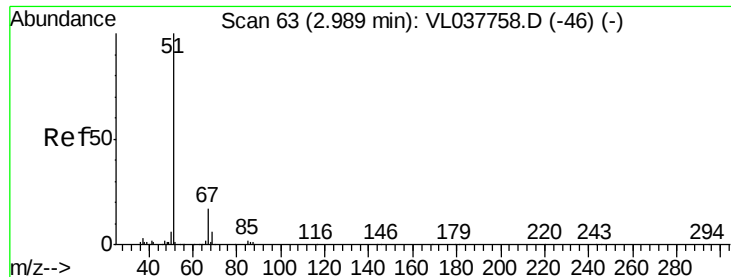
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.04

Time-->





#3

Chlorodifluoromethane

Concen: 0.098 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.01 min

Lab File: VL037799.D

Acq: 7 Oct 2021 17:07

Instrument :

MSVOA_L

ClientSampleId :

C0P18

Tgt Ion: 51 Resp: 22773

Ion Ratio Lower Upper

51 100

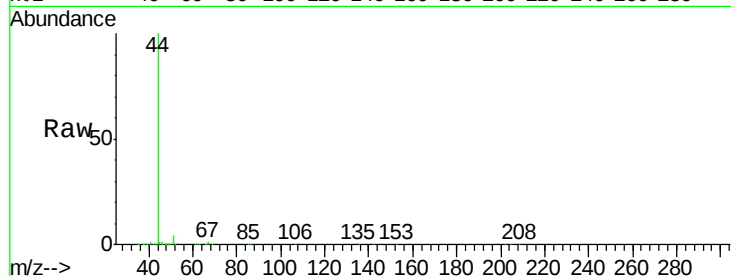
67 14.1 13.5 20.3

Manual Integrations

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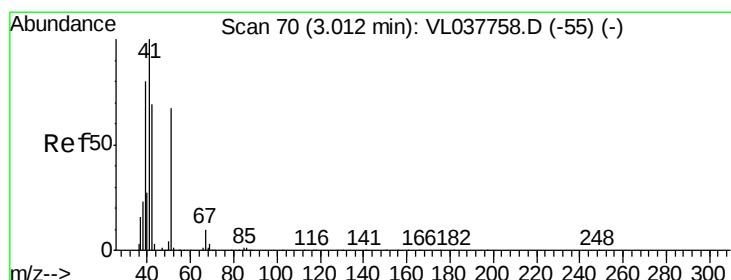
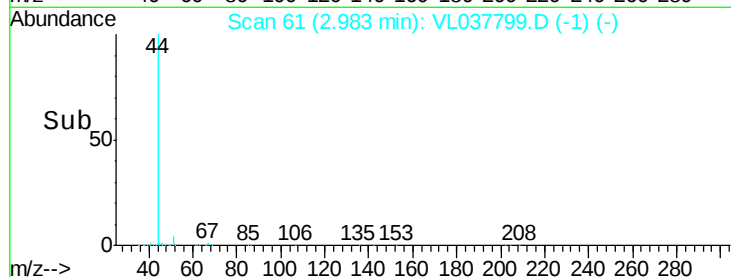
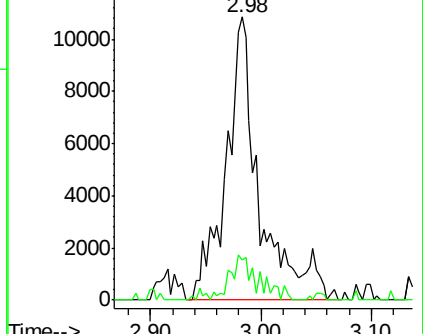
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.445 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037799.D

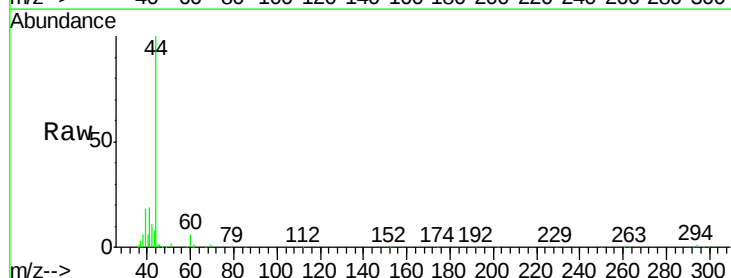
Acq: 7 Oct 2021 17:07

Tgt Ion: 41 Resp: 38092

Ion Ratio Lower Upper

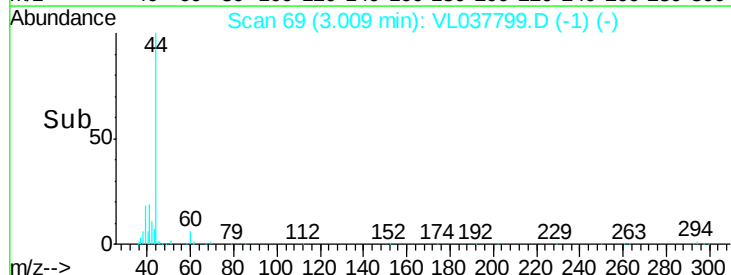
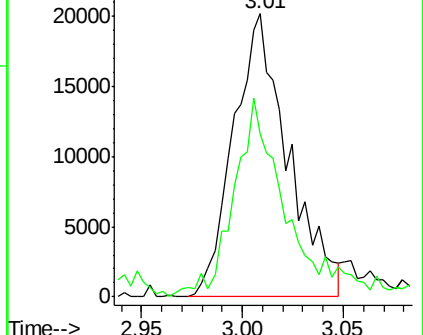
41 100

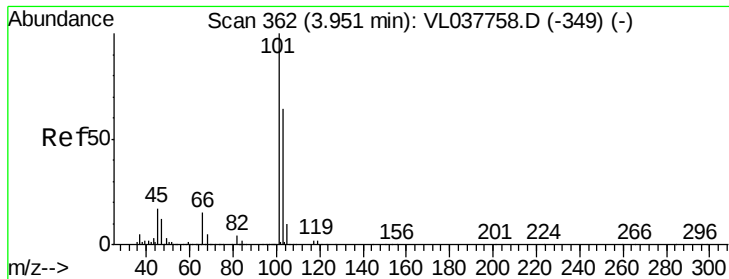
42 70.2 54.2 81.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





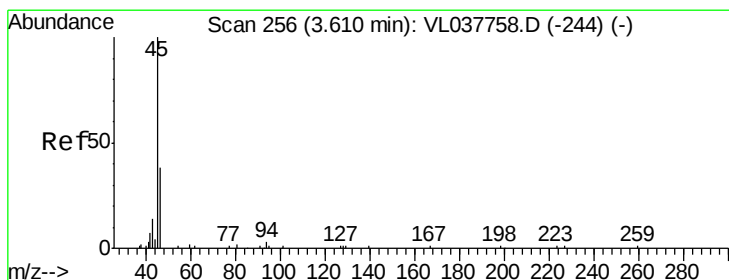
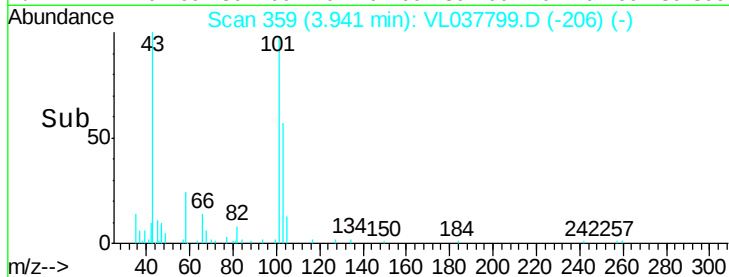
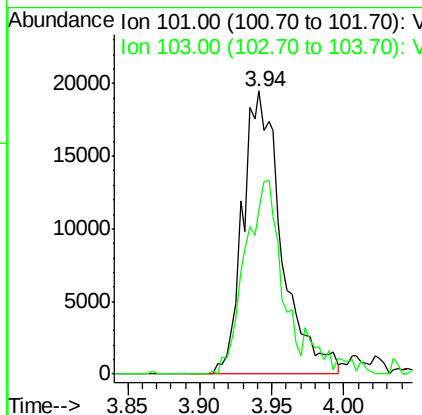
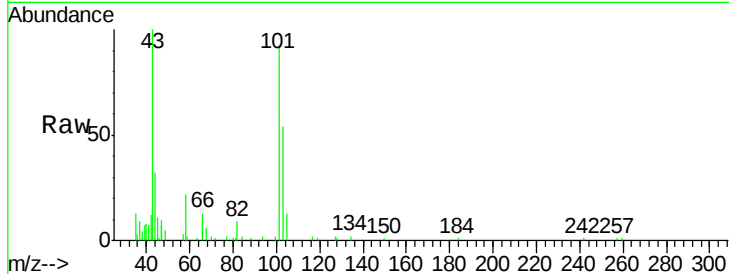
#11
 Trichlorofluoromethane
 Concen: 0.211 ppbv m
 RT: 3.94 min Scan# 359
 Delta R.T. -0.01 min
 Lab File: VL037799.D
 Acq: 7 Oct 2021 17:07

Instrument :
 MSVOA_L
 ClientSampled :
 C0P18

Tgt Ion: 101 Resp: 36312
 Ion Ratio Lower Upper
 101 100
 103 58.0 51.5 77.3

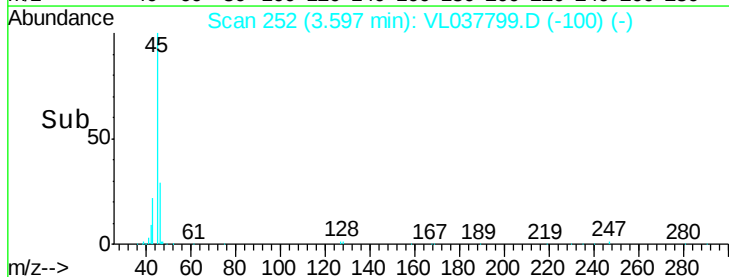
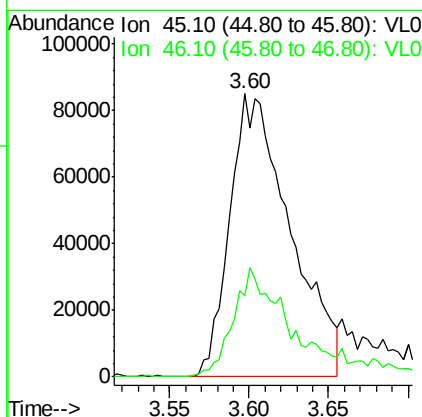
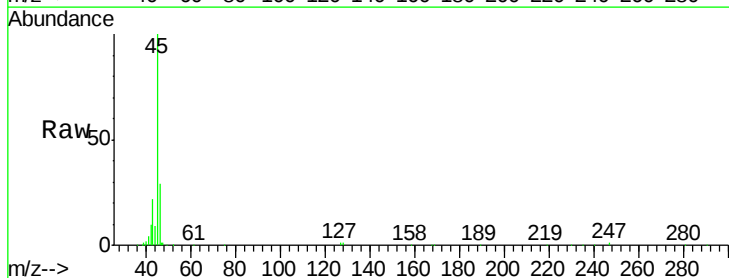
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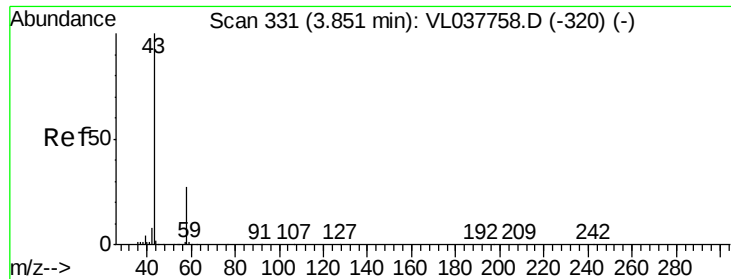
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#13
 Ethanol
 Concen: 32.018 ppbv m
 RT: 3.60 min Scan# 252
 Delta R.T. -0.01 min
 Lab File: VL037799.D
 Acq: 7 Oct 2021 17:07

Tgt Ion: 45 Resp: 224021
 Ion Ratio Lower Upper
 45 100
 46 39.5 20.2 81.0





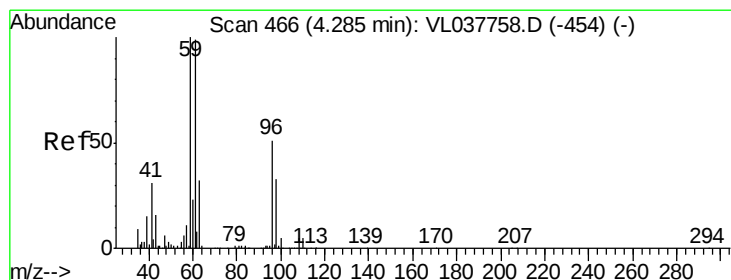
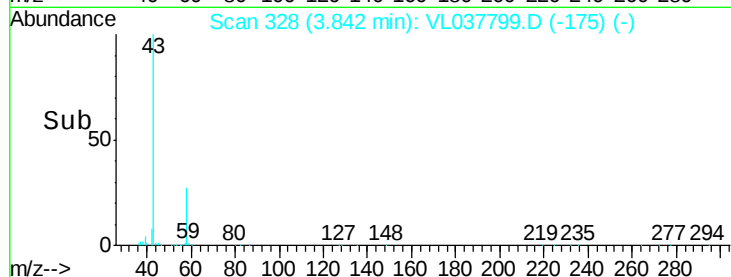
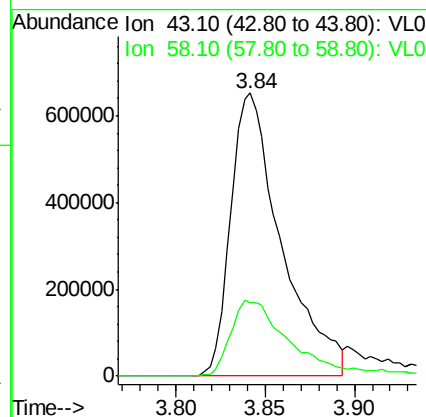
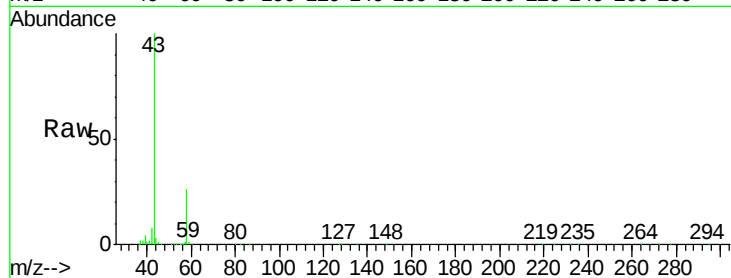
#15
Acetone
Concen: 11.810 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL037799.D
Acq: 7 Oct 2021 17:07

Instrument :
MSVOA_L
ClientSampled :
COP18

Tgt Ion: 43 Resp: 1282979
Ion Ratio Lower Upper
43 100
58 32.9 23.0 34.6

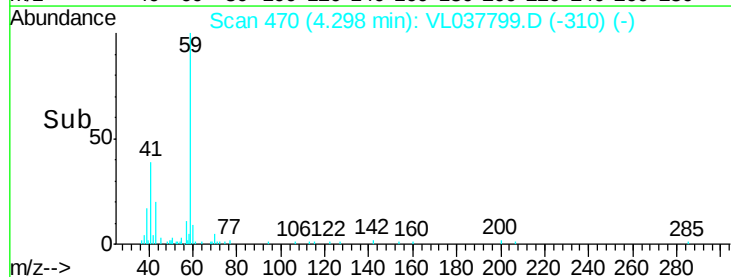
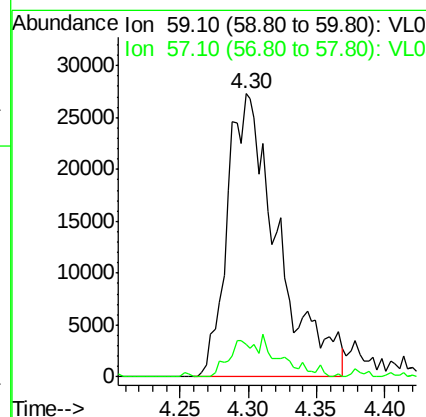
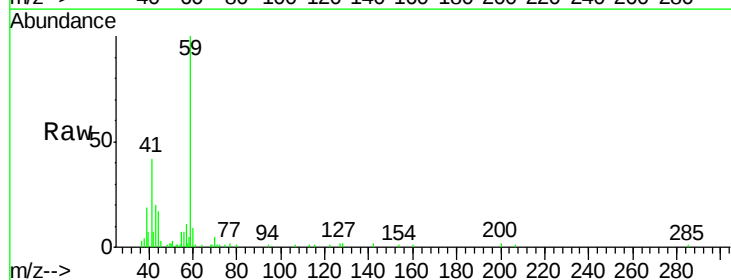
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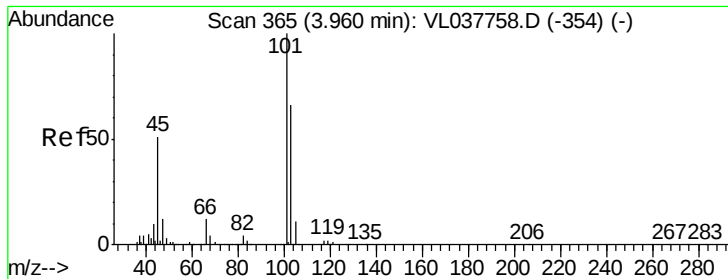
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#17
tert-Butyl alcohol
Concen: 0.630 ppbv m
RT: 4.30 min Scan# 470
Delta R.T. 0.01 min
Lab File: VL037799.D
Acq: 7 Oct 2021 17:07

Tgt Ion: 59 Resp: 70504
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 0.809 ppbv m

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL037799.D

Acq: 7 Oct 2021 17:07

Instrument :

MSVOA_L

ClientSampled :

C0P18

Tgt Ion: 45 Resp: 54702

Ion Ratio Lower Upper

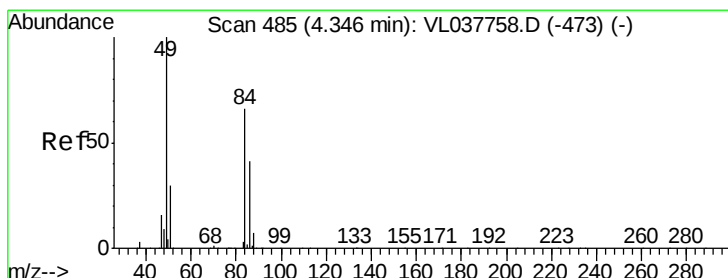
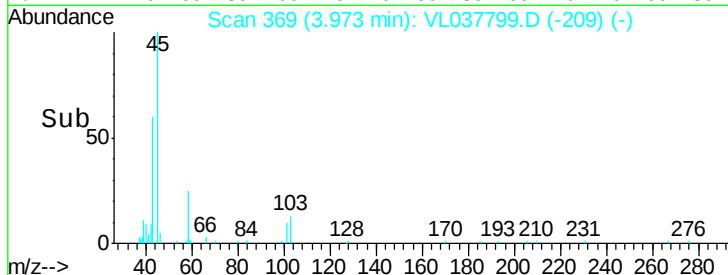
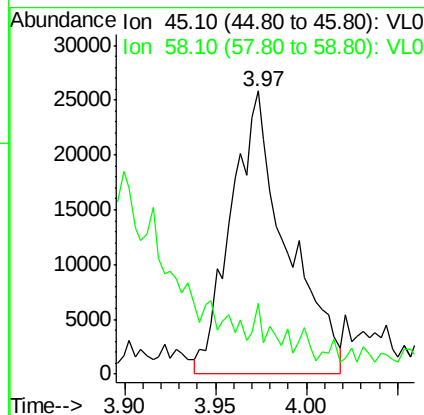
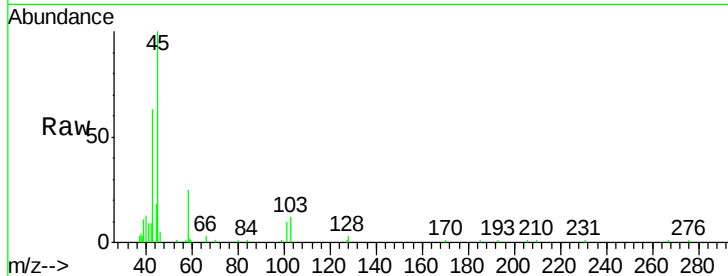
45 100

58 0.0 1.1 1.7#

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#20

Methylene Chloride

Concen: 2.794 ppbv m

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL037799.D

Acq: 7 Oct 2021 17:07

Tgt Ion: 84 Resp: 153370

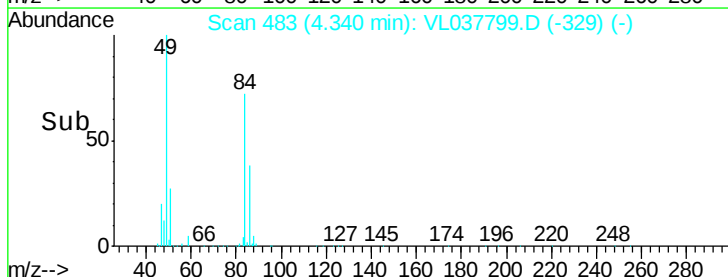
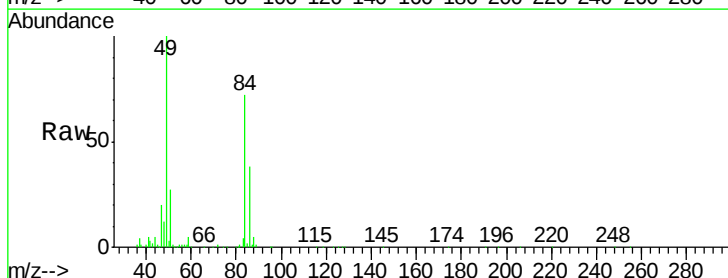
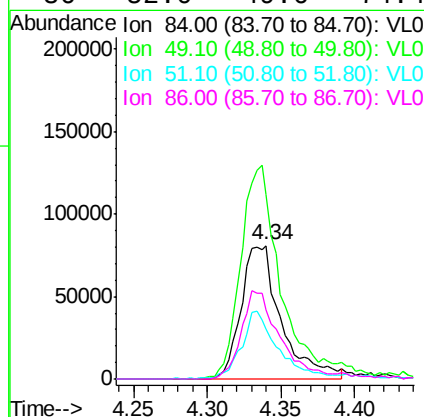
Ion Ratio Lower Upper

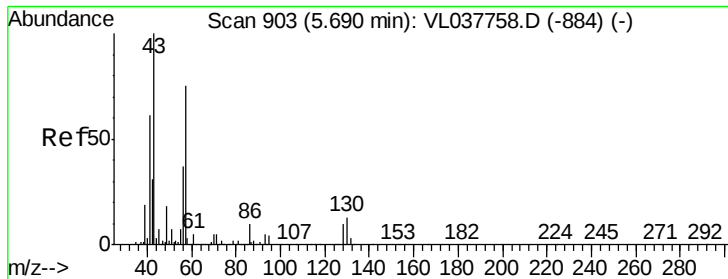
84 100

49 138.4 120.7 181.1

51 37.2 36.2 54.4

86 52.0 49.6 74.4





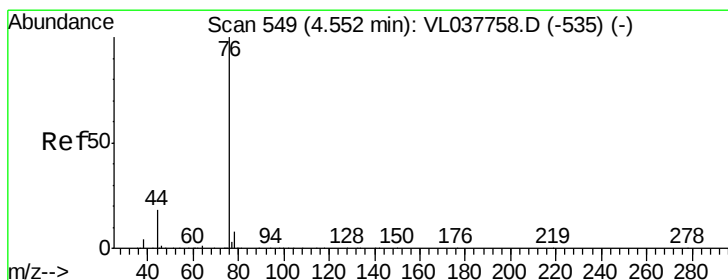
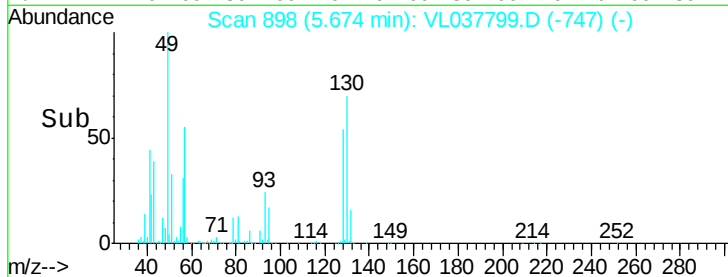
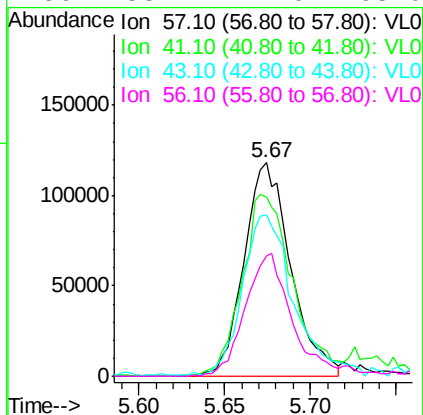
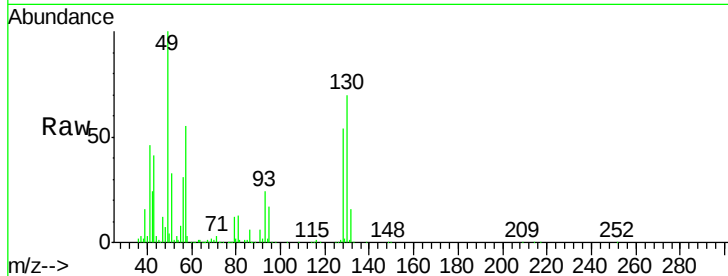
#26
Hexane
Concen: 1.481 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.02 min
Lab File: VL037799.D
Acq: 7 Oct 2021 17:07

Instrument :
MSVOA_L
ClientSampled :
C0P18

Tgt Ion	Ratio	Lower	Upper
57	100		
41	96.4	69.6	104.4
43	83.9	171.4	257.0#
56	58.7	42.0	63.0

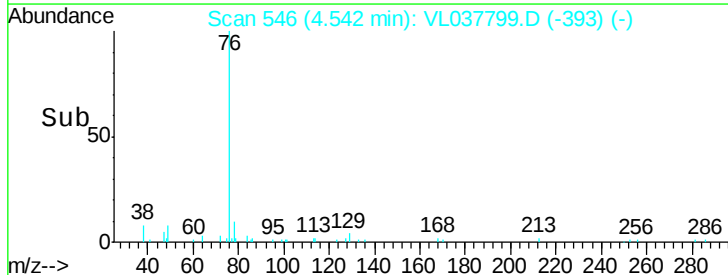
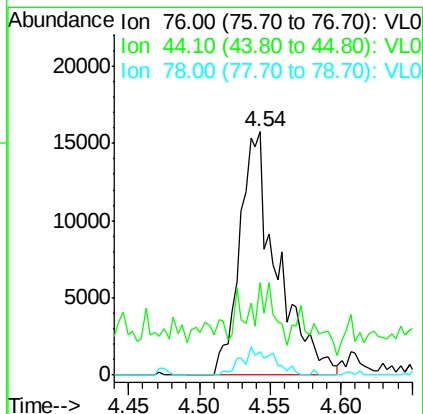
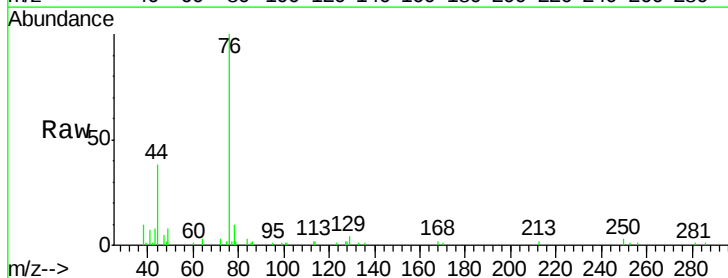
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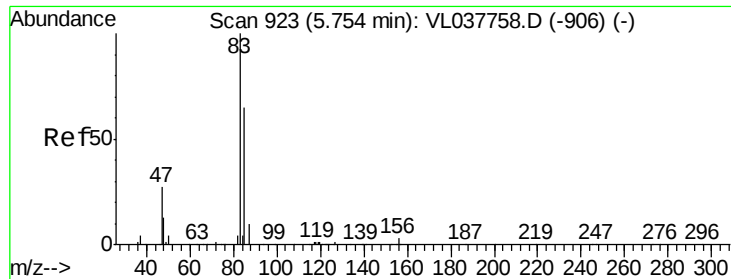
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#27
Carbon Disulfide
Concen: 0.216 ppbv m
RT: 4.54 min Scan# 546
Delta R.T. -0.01 min
Lab File: VL037799.D
Acq: 7 Oct 2021 17:07

Tgt Ion	Ratio	Lower	Upper
76	100		
44	31.3	14.3	21.5#
78	9.9	7.8	11.6





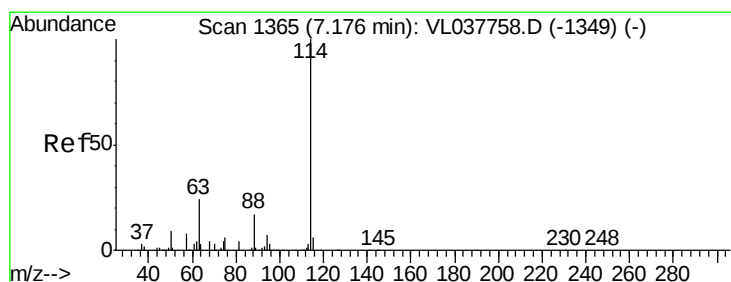
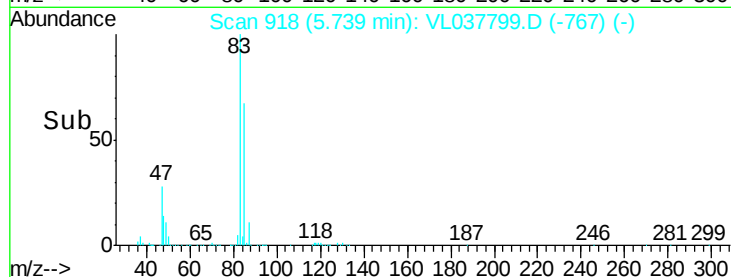
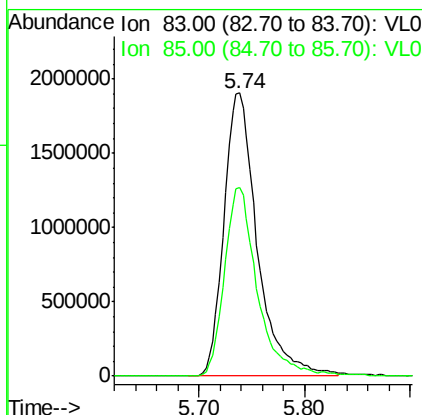
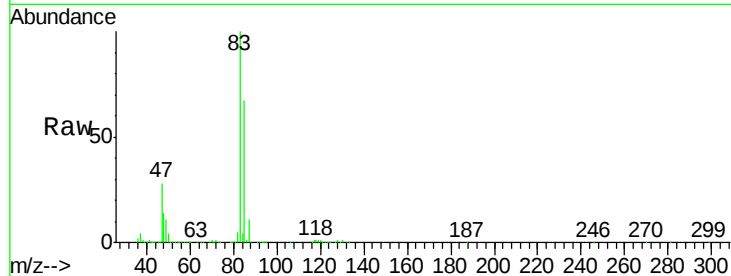
#29
Chloroform
Concen: 19.469 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.02 min
Lab File: VL037799.D
Acq: 7 Oct 2021 17:07

Instrument :
MSVOA_L
ClientSampled :
C0P18

Tgt Ion: 83 Resp: 4177294
Ion Ratio Lower Upper
83 100
85 66.5 51.8 77.8

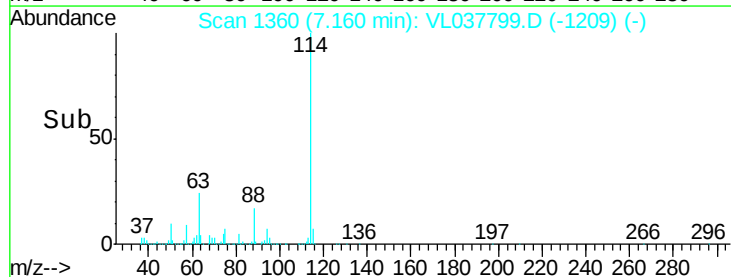
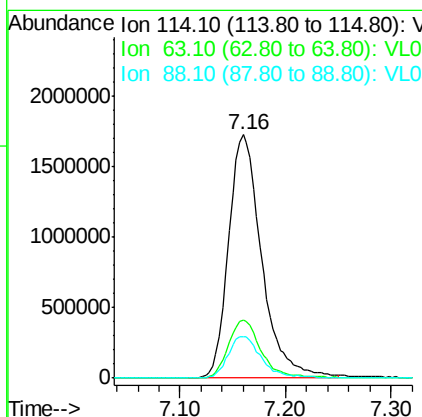
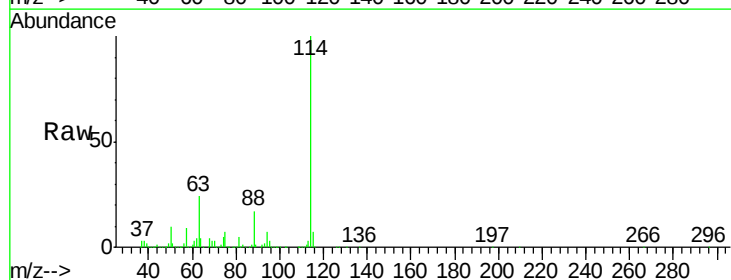
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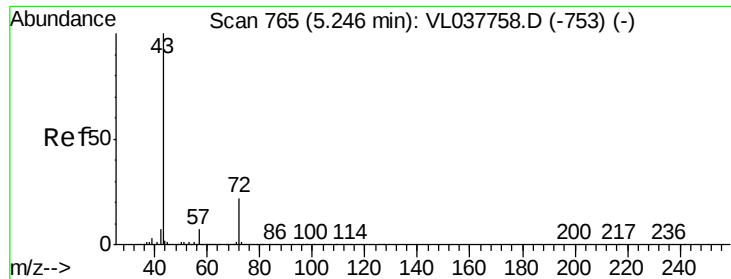
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.02 min
Lab File: VL037799.D
Acq: 7 Oct 2021 17:07

Tgt Ion: 114 Resp: 3757386
Ion Ratio Lower Upper
114 100
63 24.0 19.4 29.2
88 17.6 14.4 21.6





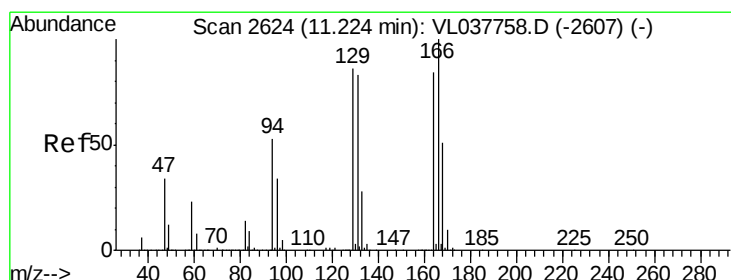
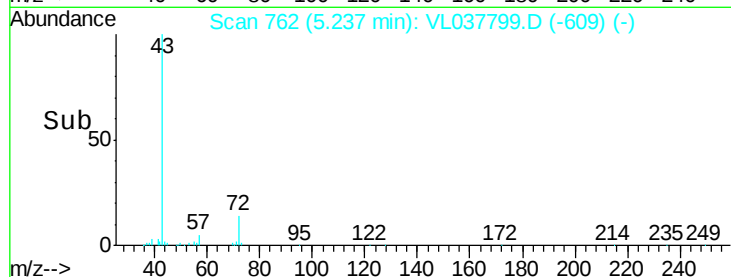
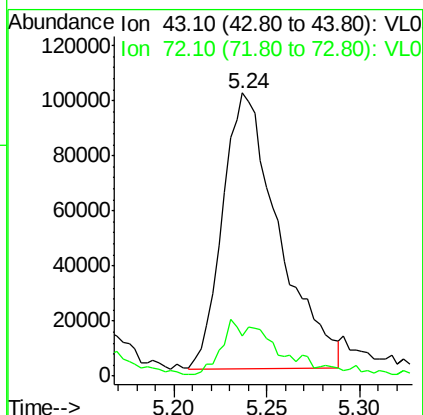
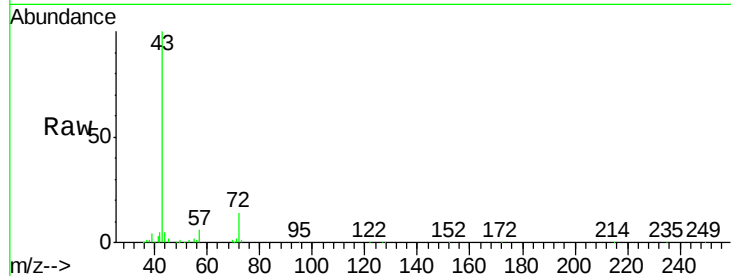
#34
2-Butanone
Concen: 1.395 ppbv
RT: 5.24 min Scan# 762
Delta R.T. -0.01 min
Lab File: VL037799.D
Acq: 7 Oct 2021 17:07

Instrument :
MSVOA_L
ClientSampleId :
C0P18

Tgt Ion: 43 Resp: 211540
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2

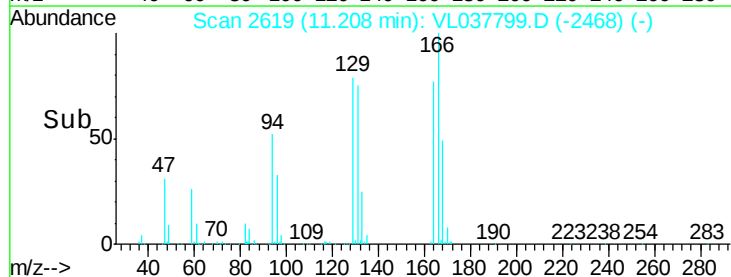
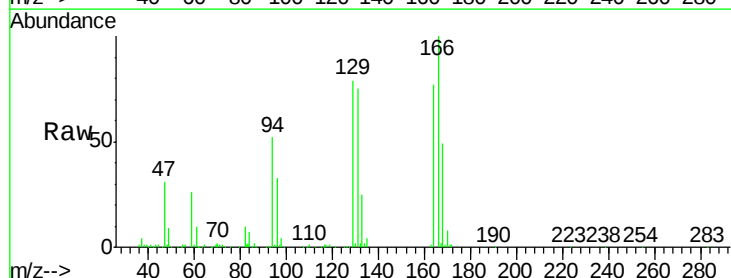
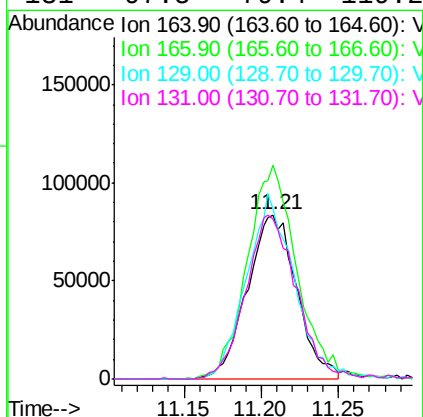
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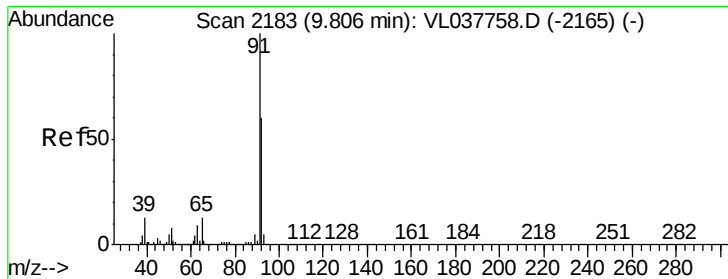
apatel
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#52
Tetrachloroethene
Concen: 1.489 ppbv
RT: 11.21 min Scan# 2619
Delta R.T. -0.02 min
Lab File: VL037799.D
Acq: 7 Oct 2021 17:07

Tgt Ion: 164 Resp: 185874
Ion Ratio Lower Upper
164 100
166 129.0 95.4 143.2
129 103.2 82.2 123.4
131 97.5 79.4 119.2





#53

Toluene

Concen: 0.217 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. -0.02 min

Lab File: VL037799.D

Acq: 7 Oct 2021 17:07

Instrument :

MSVOA_L

ClientSampleId :

C0P18

Tgt Ion: 91 Resp: 77160

Ion Ratio Lower Upper

91 100

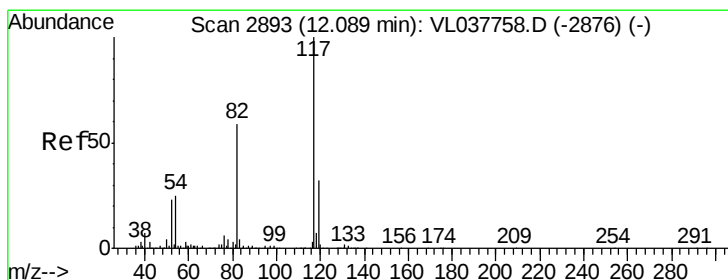
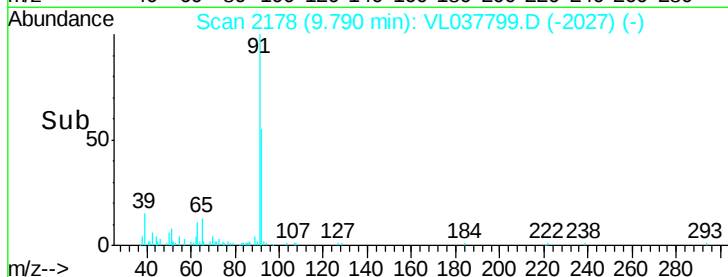
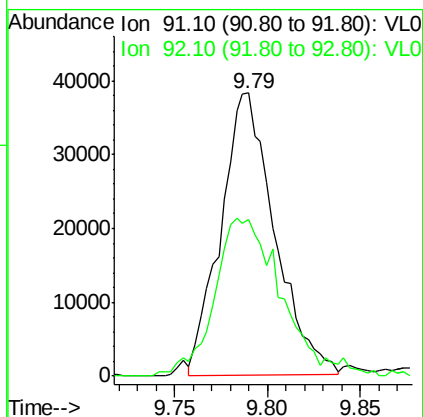
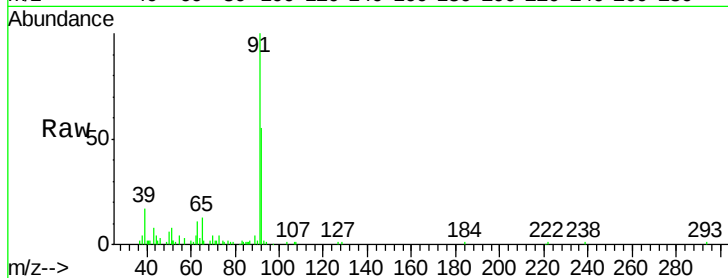
92 69.6 48.4 72.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.02 min

Lab File: VL037799.D

Acq: 7 Oct 2021 17:07

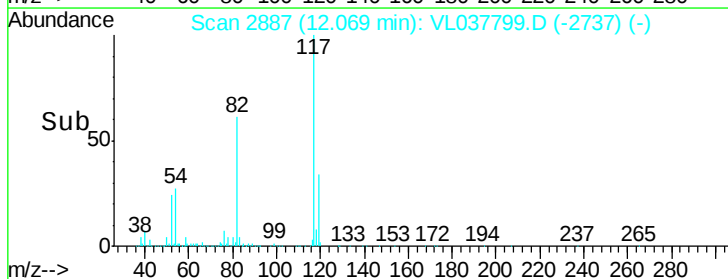
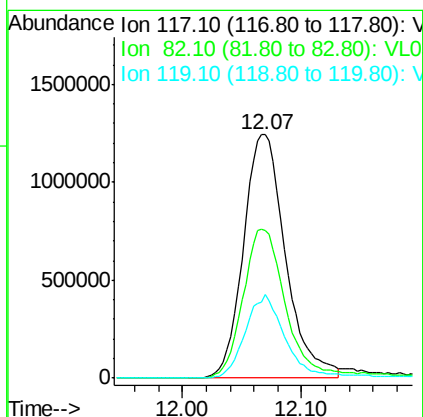
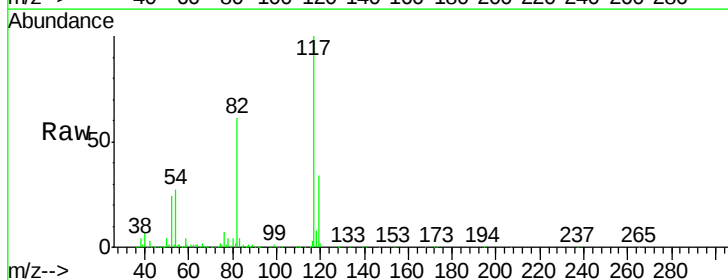
Tgt Ion: 117 Resp: 3043346

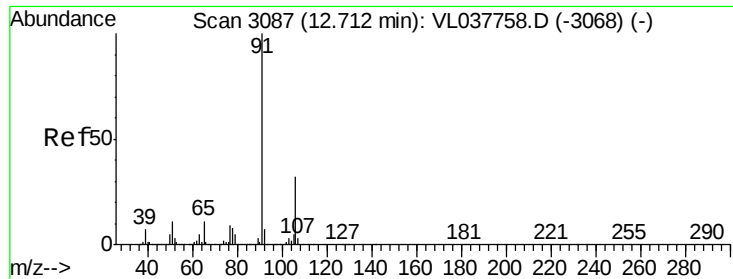
Ion Ratio Lower Upper

117 100

82 66.3 52.2 78.2

119 33.8 26.0 39.0





#58

Ethyl Benzene

Concen: 0.250 ppbv

RT: 12.69 min Scan# 3081

Delta R.T. -0.02 min

Lab File: VL037799.D

Acq: 7 Oct 2021 17:07

Instrument :

MSVOA_L

ClientSampled :

C0P18

Tgt Ion: 91 Resp: 102249

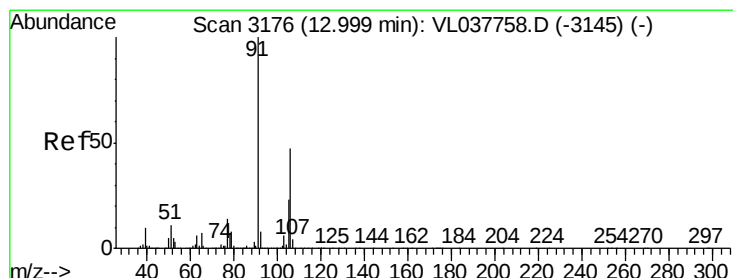
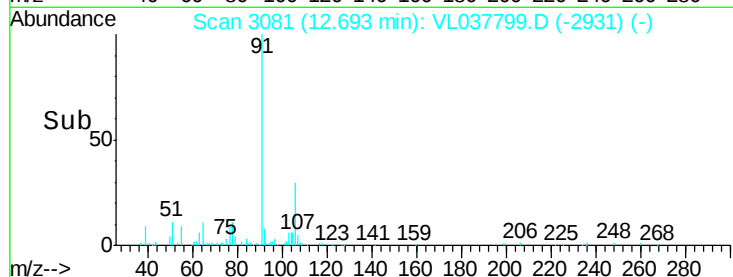
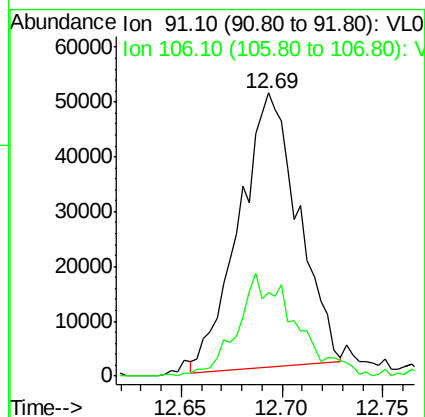
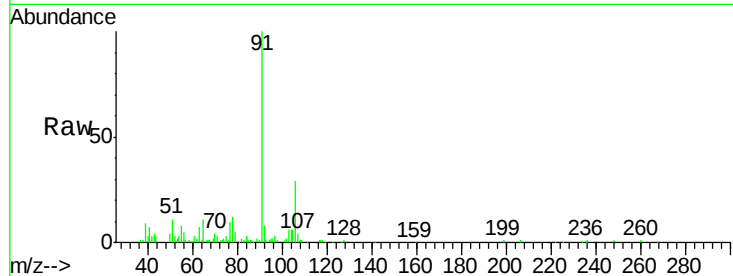
Ion Ratio Lower Upper

91 100

106 29.8 25.3 37.9

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#59

m/p-Xylene

Concen: 1.187 ppbv m

RT: 12.95 min Scan# 3161

Delta R.T. -0.05 min

Lab File: VL037799.D

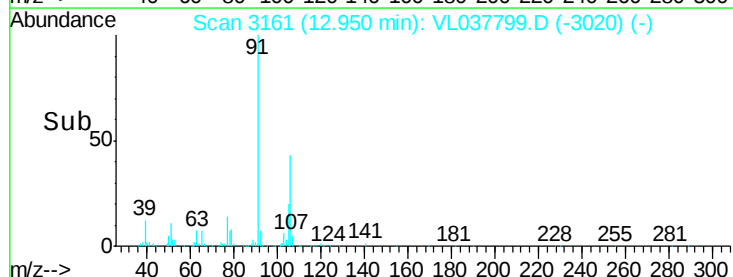
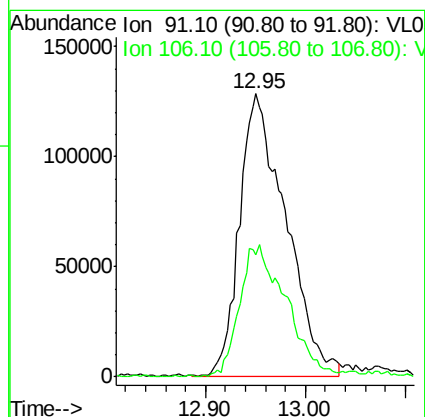
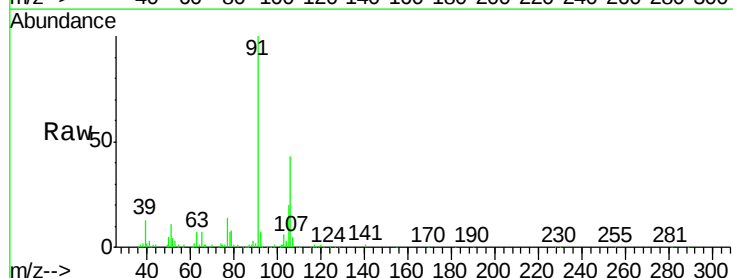
Acq: 7 Oct 2021 17:07

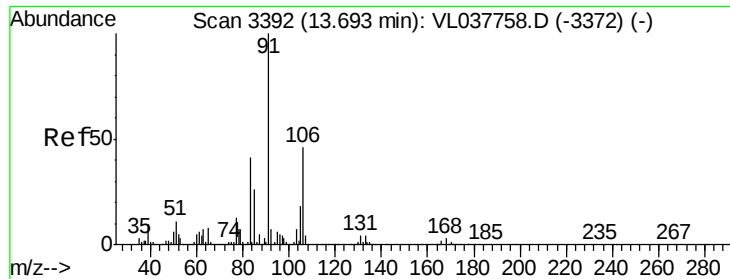
Tgt Ion: 91 Resp: 416258

Ion Ratio Lower Upper

91 100

106 0.0 36.7 55.1#





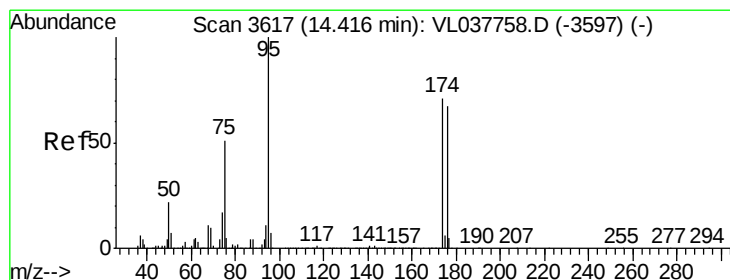
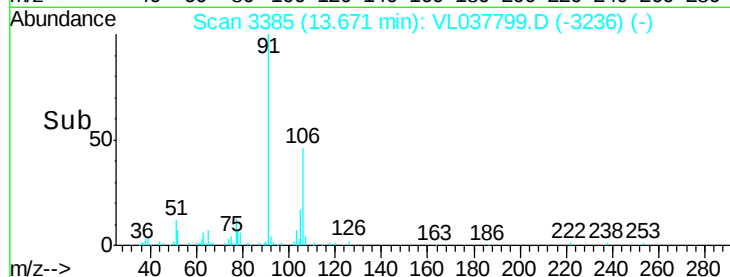
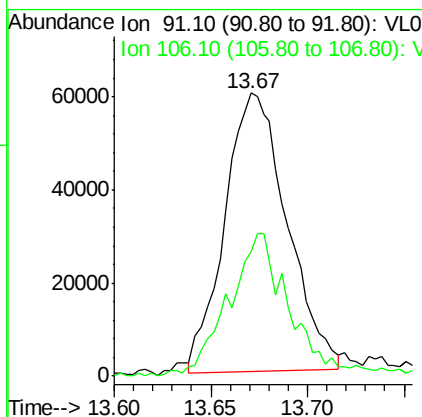
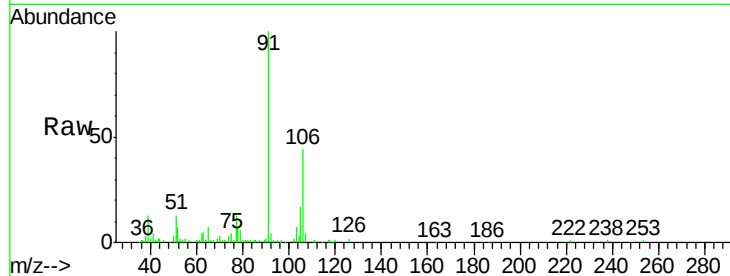
#60
o-Xylene
Concen: 0.399 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.02 min
Lab File: VL037799.D
Acq: 7 Oct 2021 17:07

Instrument :
MSVOA_L
ClientSampled :
C0P18

Tgt Ion: 91 Resp: 134215
Ion Ratio Lower Upper
91 100
106 51.0 23.5 70.5

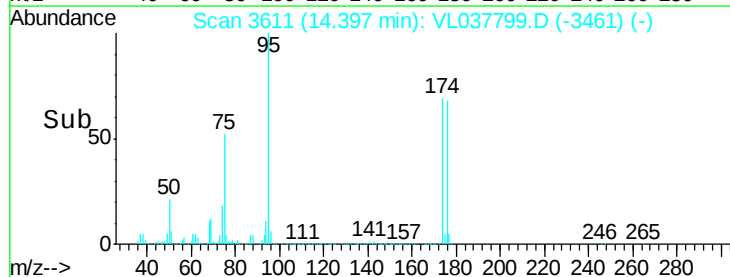
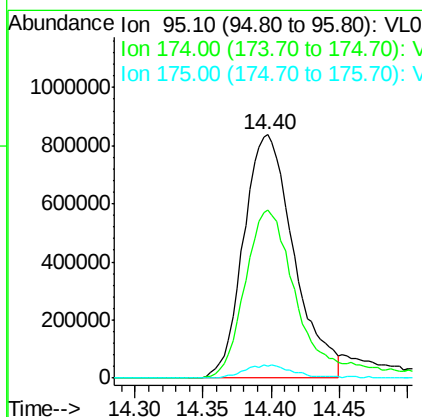
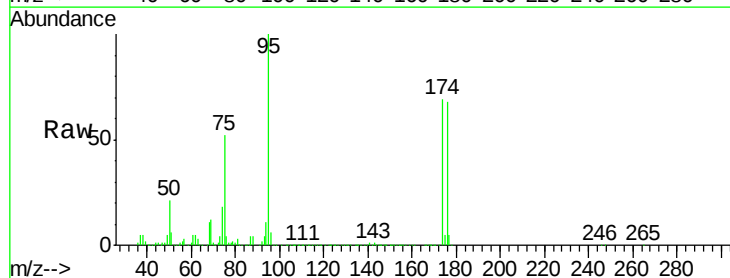
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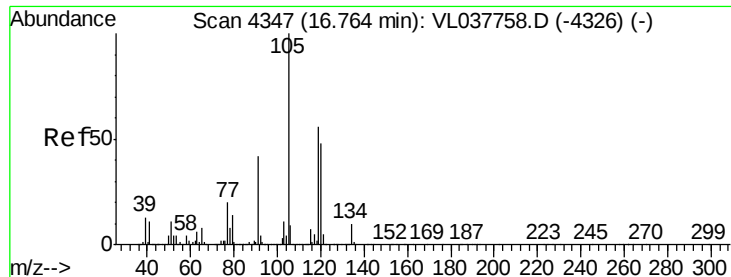
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.098 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. -0.02 min
Lab File: VL037799.D
Acq: 7 Oct 2021 17:07

Tgt Ion: 95 Resp: 2149182
Ion Ratio Lower Upper
95 100
174 75.9 57.8 86.6
175 5.7 4.7 7.1





#74

1,2,4-Trimethylbenzene

Concen: 0.162 ppbv m

RT: 16.74 min Scan# 4341

Delta R.T. -0.02 min

Lab File: VL037799.D

Acq: 7 Oct 2021 17:07

Instrument :

MSVOA_L

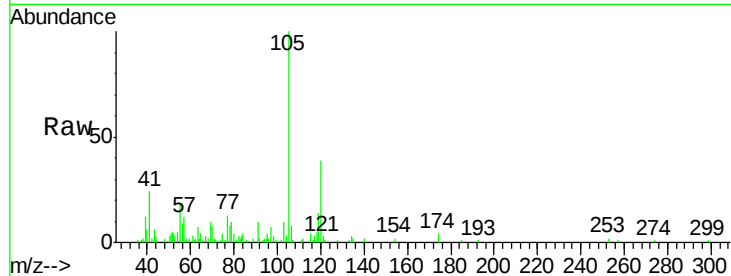
ClientSampleId :

C0P18

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	58878		
120	39.2		38.4	57.6
91	9.8		34.2	51.2#
77	12.7		15.8	23.8#

Manual Integrations
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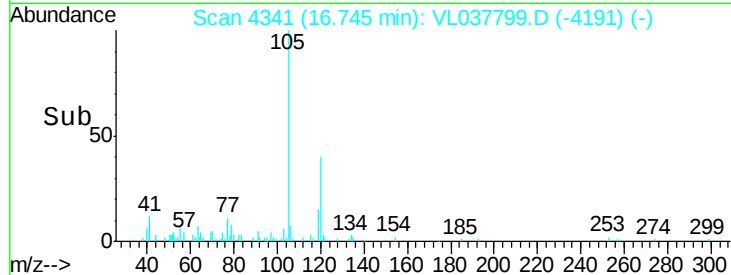
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

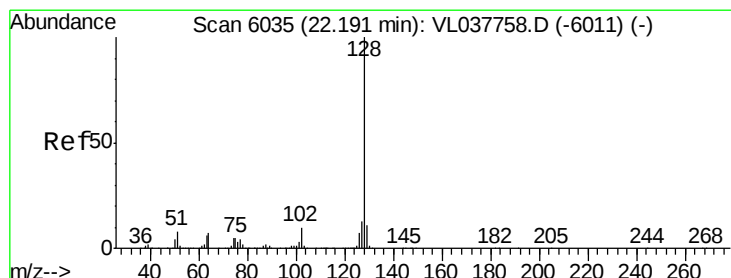
Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Time-->



Time-->



#79

Naphthalene

Concen: 0.201 ppbv m

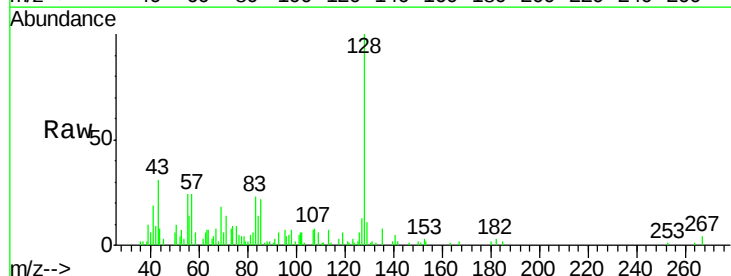
RT: 22.18 min Scan# 6033

Delta R.T. -0.01 min

Lab File: VL037799.D

Acq: 7 Oct 2021 17:07

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	44800		
127	12.8		10.1	15.1
129	10.5		9.1	13.7

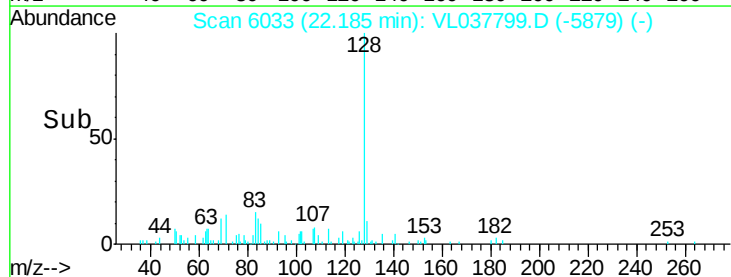


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

Time-->



Time-->