

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
 Data File : VL037801.D
 Acq On : 7 Oct 2021 18:25
 Operator : SY/AP
 Sample : M4079-08
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P20

Manual Integrations
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 10/14/2021 1:19:37 PM

Quant Time: Oct 08 10:45:08 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	1287379	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3700742	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3027552	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2223404	10.50	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	28435	0.138	ppbv #	82
3) Chlorodifluoromethane	2.98	51	24963	0.101	ppbv	99
4) Chloromethane	3.13	50	9885m	0.109	ppbv	
9) Propene	3.00	41	66269	0.728	ppbv	97
10) Heptane	8.10	43	24399m	0.118	ppbv	
11) Trichlorofluoromethane	3.94	101	35811	0.195	ppbv #	79
13) Ethanol	3.59	45	175418m	23.567	ppbv	
15) Acetone	3.84	43	2805815	24.278	ppbv	96
17) tert-Butyl alcohol	4.29	59	47977m	0.403	ppbv	
19) Isopropyl Alcohol	3.96	45	44412m	0.618	ppbv	
20) Methylene Chloride	4.33	84	64829	1.110	ppbv	96
26) Hexane	5.68	57	78503	0.492	ppbv #	43
27) Carbon Disulfide	4.54	76	37194	0.263	ppbv #	93
29) Chloroform	5.74	83	188324	0.825	ppbv	92
34) 2-Butanone	5.23	43	551544	3.692	ppbv	96
36) Benzene	6.88	78	31321m	0.099	ppbv	
51) 2-Hexanone	10.13	43	80732m	0.930	ppbv	
52) Tetrachloroethene	11.21	164	188133m	1.530	ppbv	
53) Toluene	9.79	91	60717m	0.173	ppbv	
58) Ethyl Benzene	12.69	91	114679m	0.282	ppbv	
59) m/p-Xylene	12.95	91	363770m	1.042	ppbv	
60) o-Xylene	13.67	91	137220	0.410	ppbv	97
74) 1,2,4-Trimethylbenzene	16.74	105	69125m	0.191	ppbv	
79) Naphthalene	22.18	128	36600m	0.165	ppbv	

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

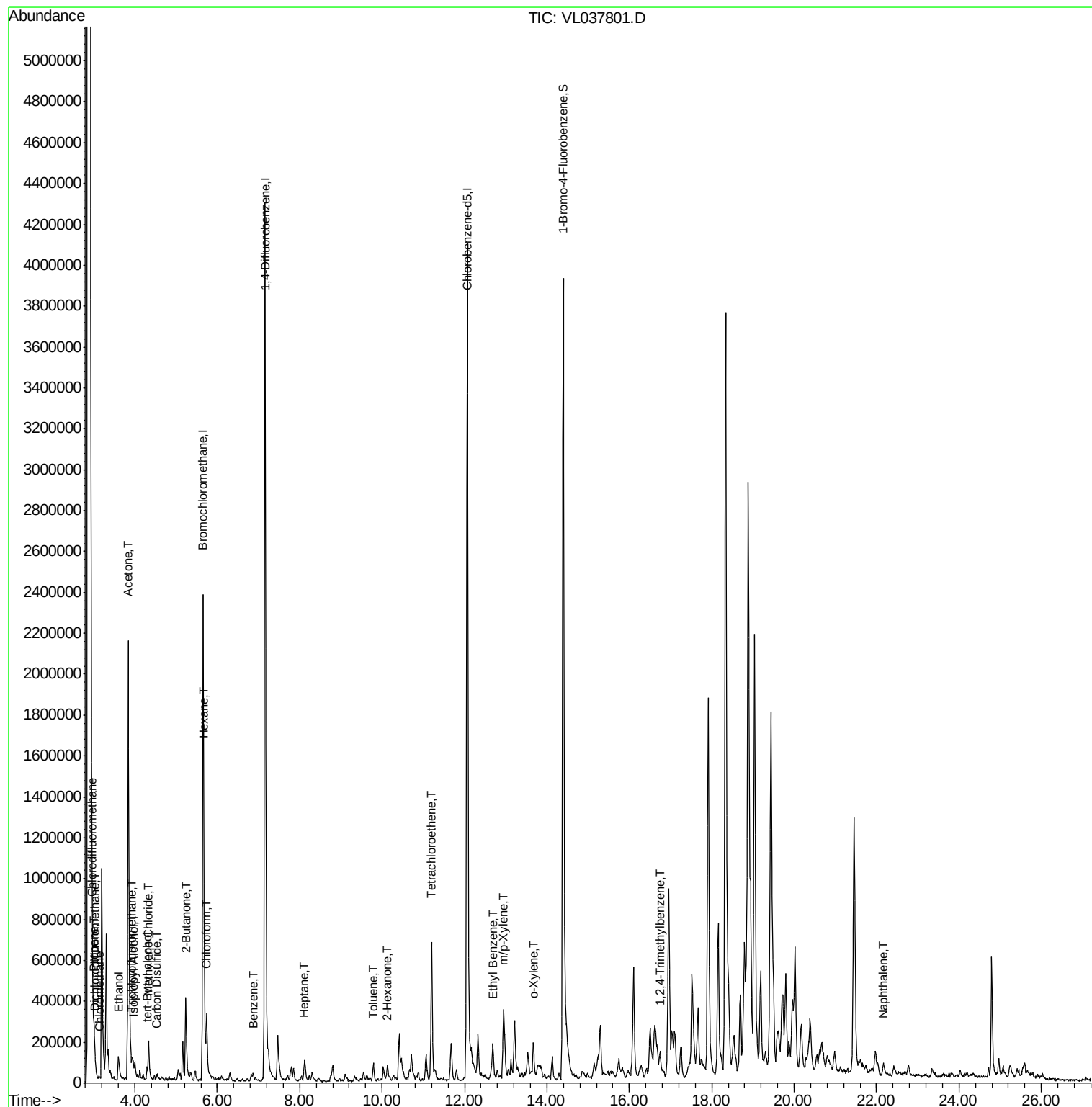
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
Data File : VL037801.D
Acq On : 7 Oct 2021 18:25
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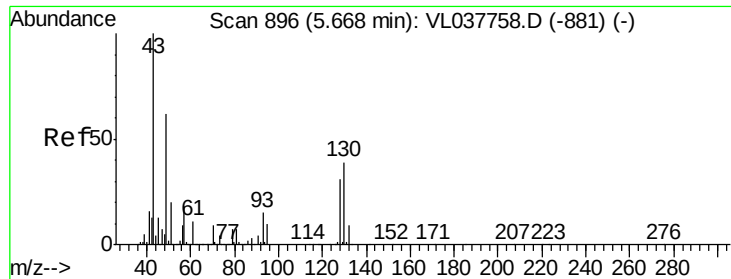
Instrument :
MSVOA_L
ClientSampled :
C0P20

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Quant Time: Oct 08 10:45:08 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





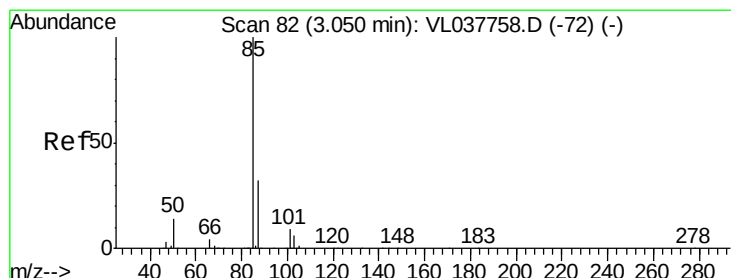
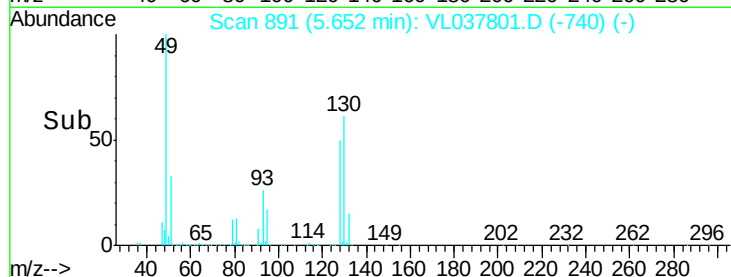
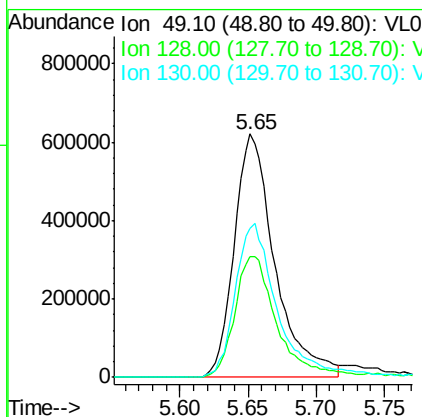
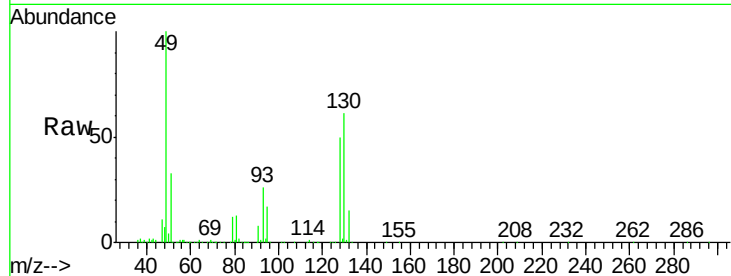
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Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 891
Delta R.T. -0.02 min
Lab File: VL037801.D
Acq: 7 Oct 2021 18:25

Instrument :
MSVOA_L
ClientSampled :
C0P20

Tgt Ion: 49 Resp: 1287379
Ion Ratio Lower Upper
49 100
128 52.8 27.1 81.3
130 67.3 33.2 99.6

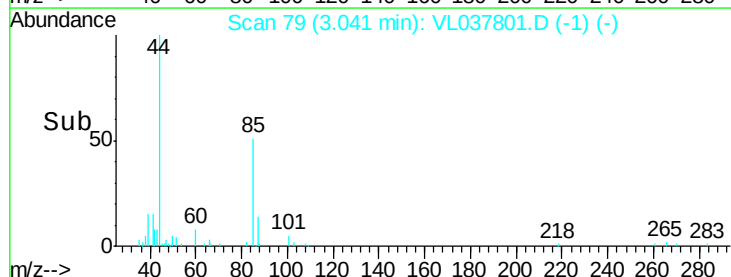
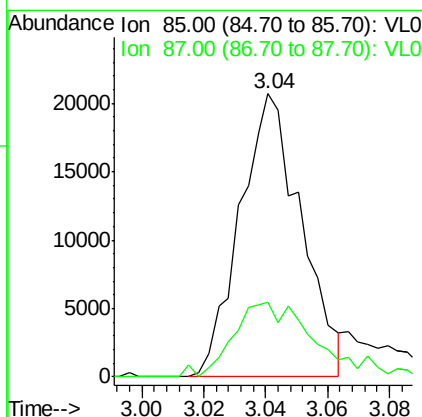
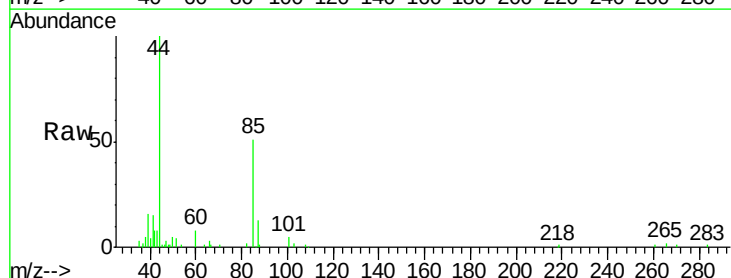
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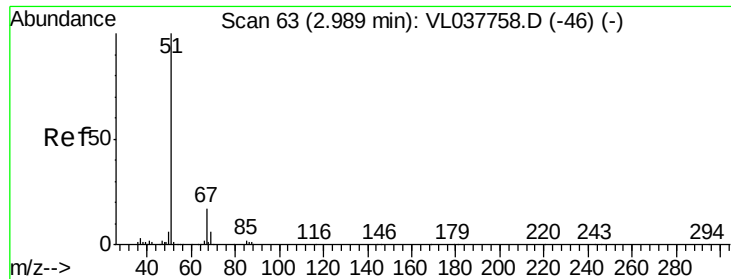
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#2
Dichlorodifluoromethane
Concen: 0.138 ppbv
RT: 3.04 min Scan# 79
Delta R.T. -0.01 min
Lab File: VL037801.D
Acq: 7 Oct 2021 18:25

Tgt Ion: 85 Resp: 28435
Ion Ratio Lower Upper
85 100
87 22.3 25.7 38.5#





#3

Chlorodifluoromethane

Concen: 0.101 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL037801.D

Acq: 7 Oct 2021 18:25

Instrument :

MSVOA_L

ClientSampleId :

C0P20

Tgt Ion: 51 Resp: 24963

Ion Ratio Lower Upper

51 100

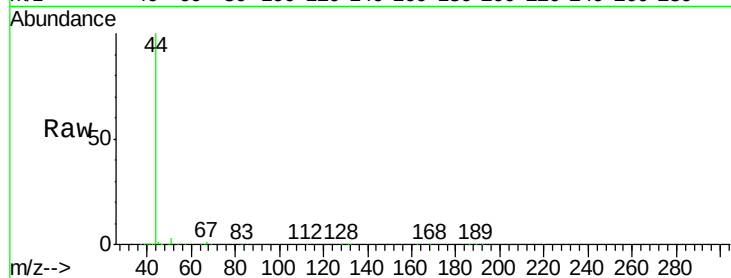
67 17.2 13.5 20.3

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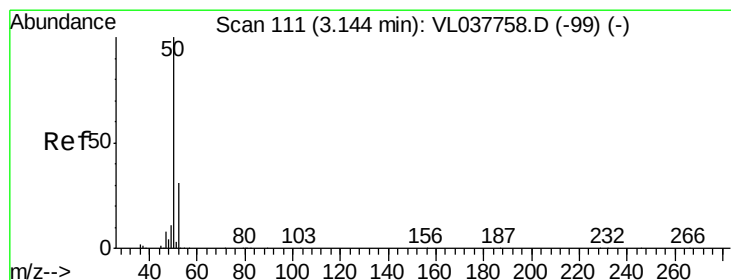
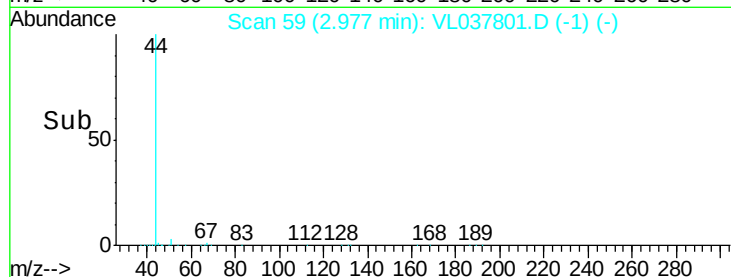
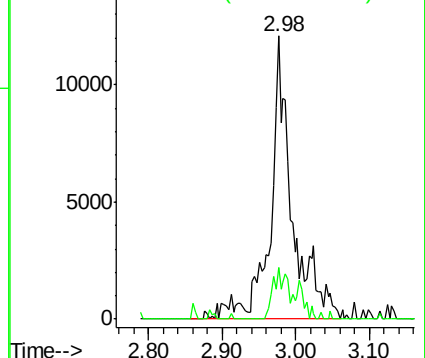
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.109 ppbv m

RT: 3.13 min Scan# 106

Delta R.T. -0.02 min

Lab File: VL037801.D

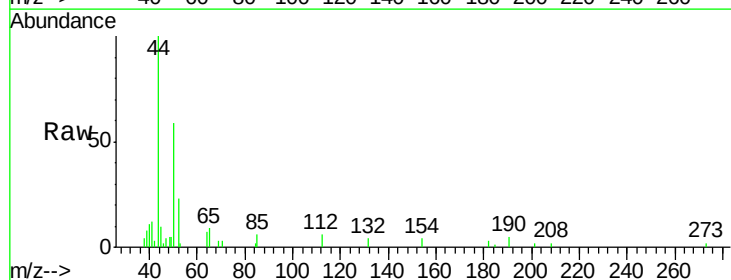
Acq: 7 Oct 2021 18:25

Tgt Ion: 50 Resp: 9885

Ion Ratio Lower Upper

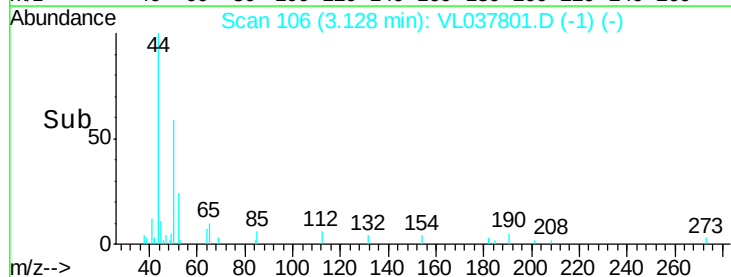
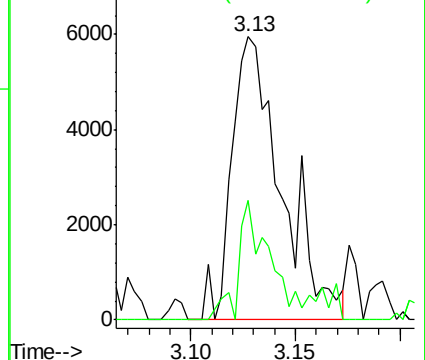
50 100

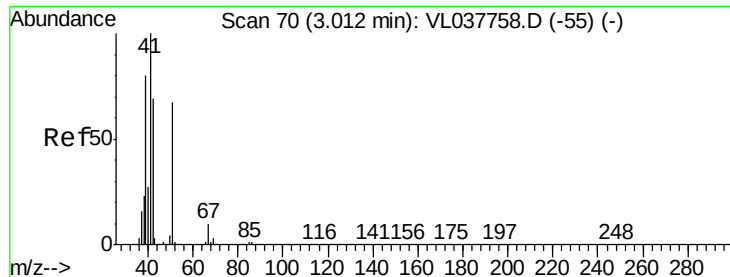
52 39.3 24.4 36.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.728 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL037801.D

Acq: 7 Oct 2021 18:25

Instrument :

MSVOA_L

ClientSampled :

C0P20

Tgt Ion: 41 Resp: 66269

Ion Ratio Lower Upper

41 100

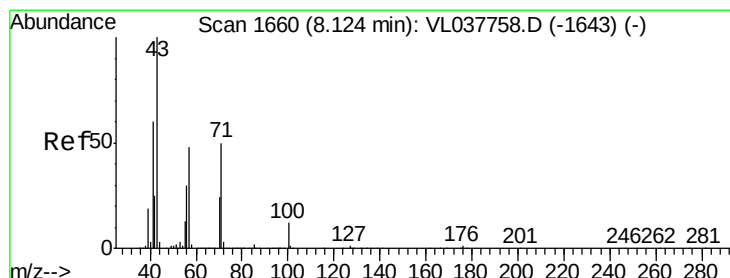
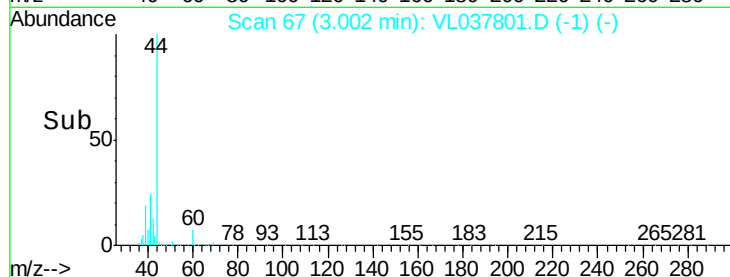
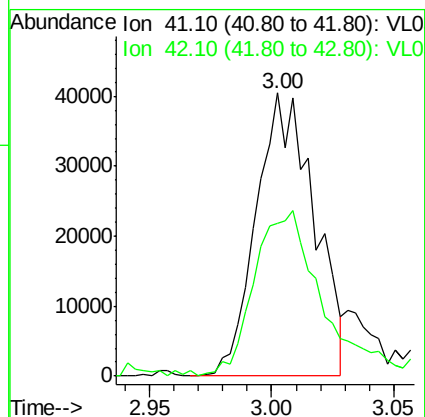
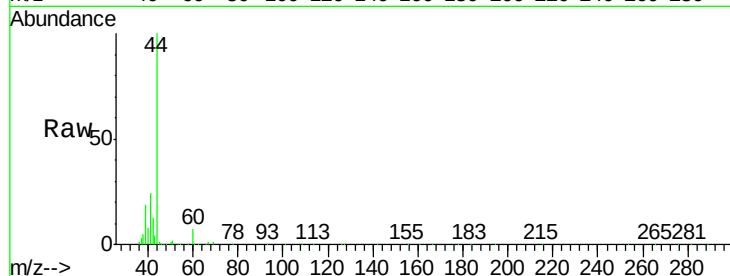
42 70.3 54.2 81.2

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#10

Heptane

Concen: 0.118 ppbv m

RT: 8.10 min Scan# 1653

Delta R.T. -0.02 min

Lab File: VL037801.D

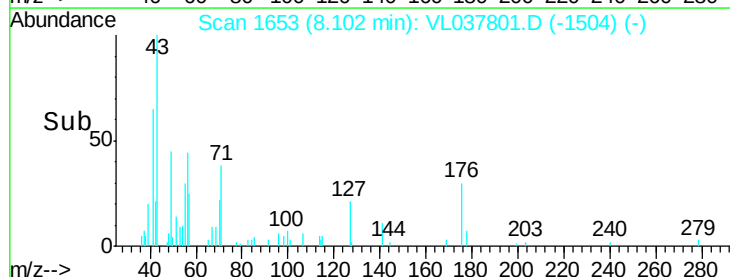
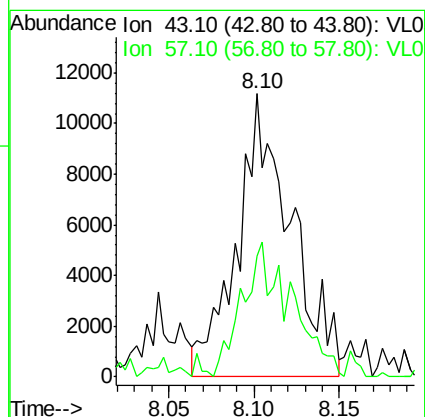
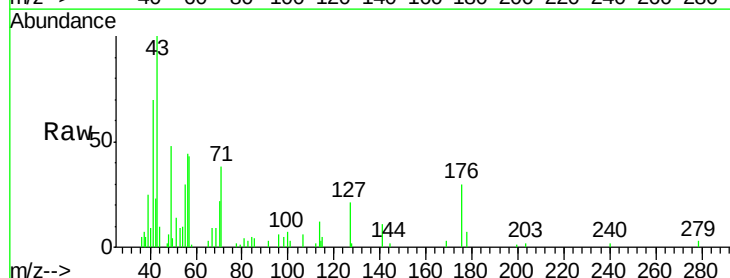
Acq: 7 Oct 2021 18:25

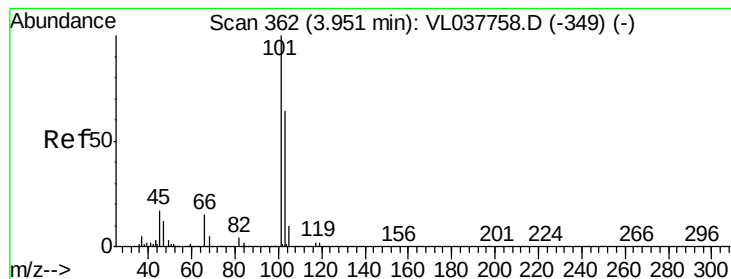
Tgt Ion: 43 Resp: 24399

Ion Ratio Lower Upper

43 100

57 0.0 40.0 60.0#





#11

Trichlorofluoromethane

Concen: 0.195 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.01 min

Lab File: VL037801.D

Acq: 7 Oct 2021 18:25

Instrument :

MSVOA_L

ClientSampled :

C0P20

Tgt Ion: 101 Resp: 35811

Ion Ratio Lower Upper

101 100

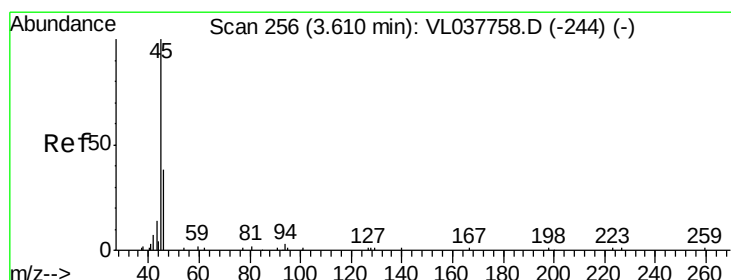
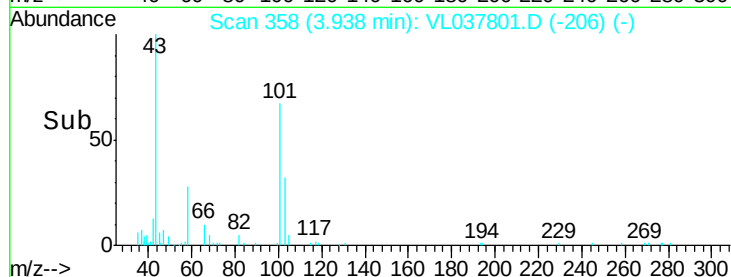
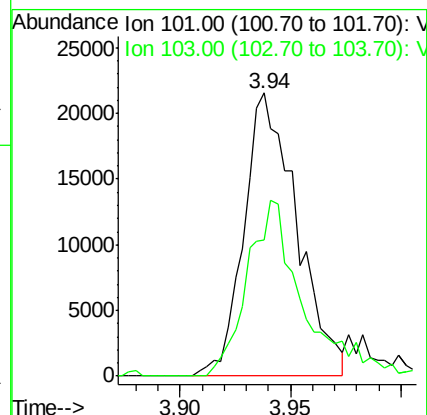
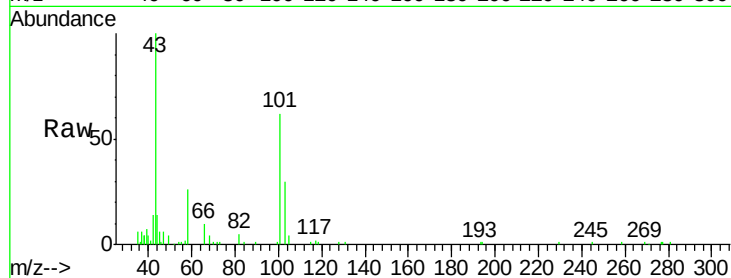
103 48.1 51.5 77.3#

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#13

Ethanol

Concen: 23.567 ppbv m

RT: 3.59 min Scan# 251

Delta R.T. -0.02 min

Lab File: VL037801.D

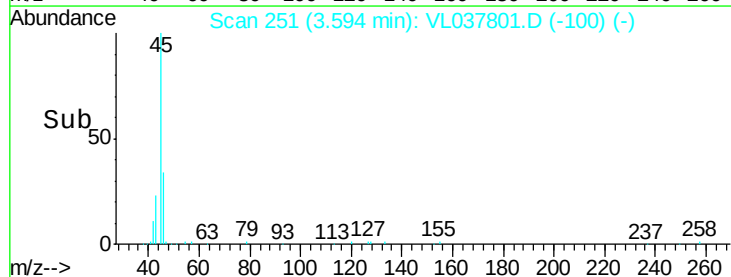
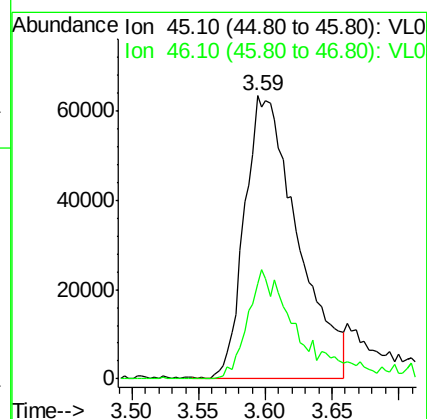
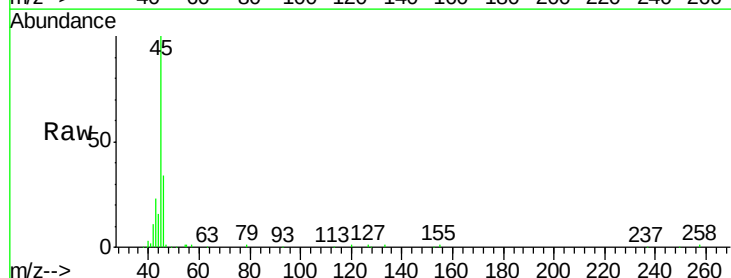
Acq: 7 Oct 2021 18:25

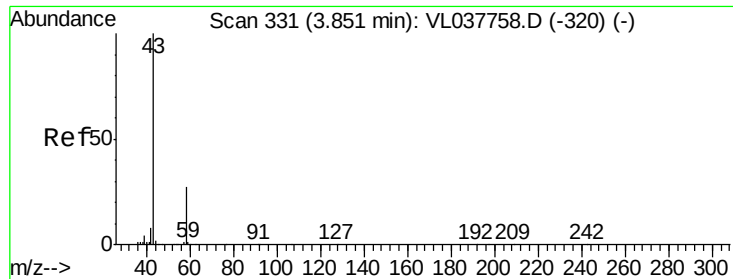
Tgt Ion: 45 Resp: 175418

Ion Ratio Lower Upper

45 100

46 37.6 20.2 81.0





#15

Acetone

Concen: 24.278 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.02 min

Lab File: VL037801.D

Acq: 7 Oct 2021 18:25

Instrument :

MSVOA_L

ClientSampleId :

C0P20

Tgt Ion: 43 Resp: 2805815

Ion Ratio Lower Upper

43 100

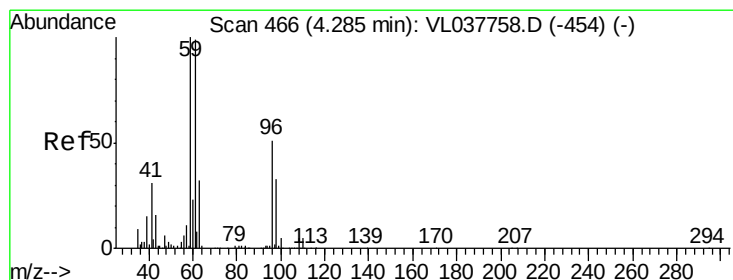
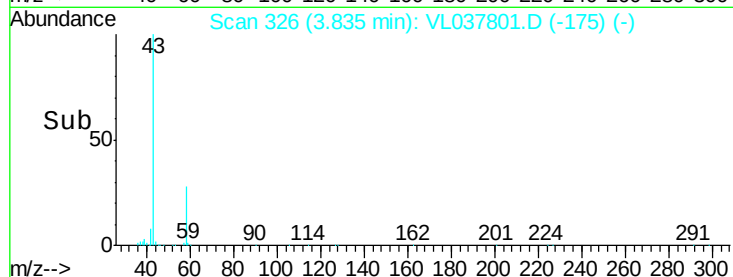
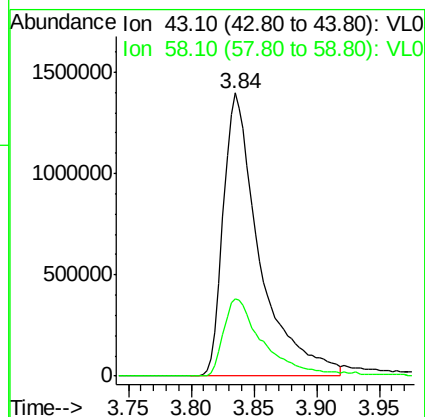
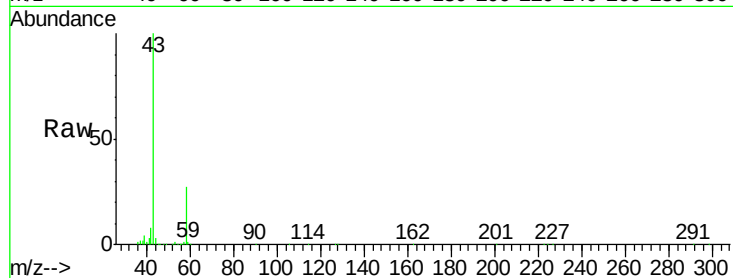
58 30.7 23.0 34.6

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#17

tert-Butyl alcohol

Concen: 0.403 ppbv m

RT: 4.29 min Scan# 467

Delta R.T. 0.00 min

Lab File: VL037801.D

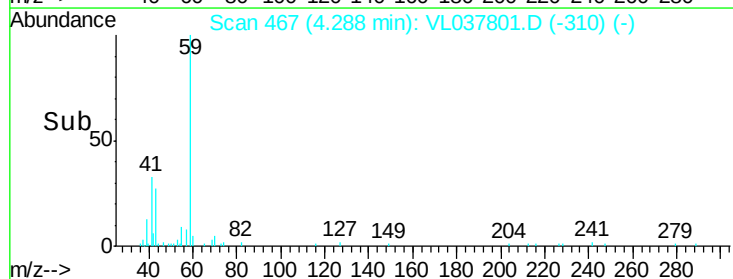
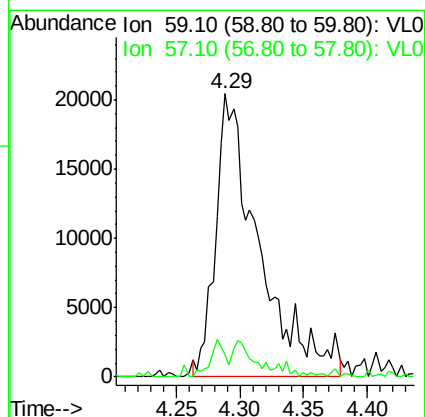
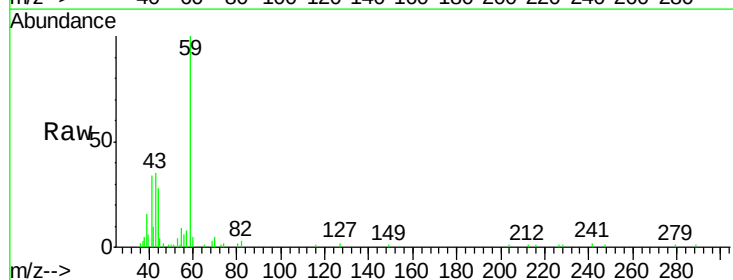
Acq: 7 Oct 2021 18:25

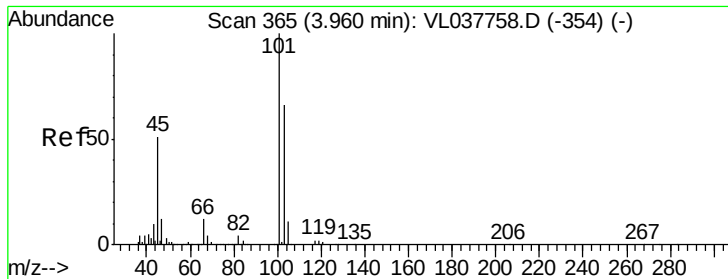
Tgt Ion: 59 Resp: 47977

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 0.618 ppbv m

RT: 3.96 min Scan# 366

Delta R.T. 0.00 min

Lab File: VL037801.D

Acq: 7 Oct 2021 18:25

Instrument :

MSVOA_L

ClientSampled :

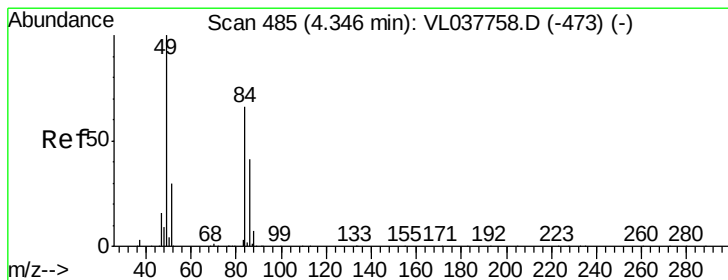
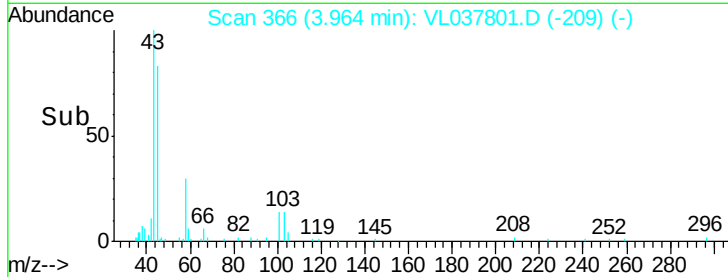
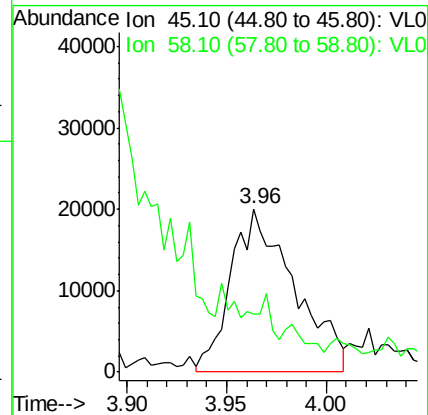
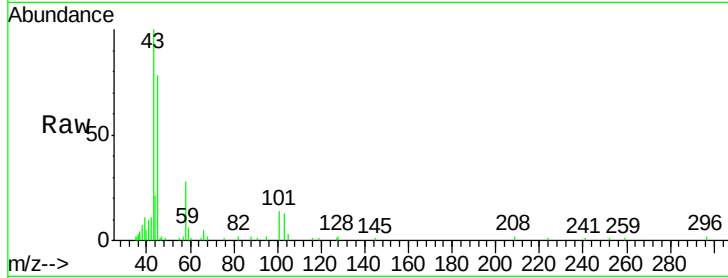
C0P20

Tgt Ion: 45 Resp: 44412

Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.1	1.7#

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#20

Methylene Chloride

Concen: 1.110 ppbv

RT: 4.33 min Scan# 480

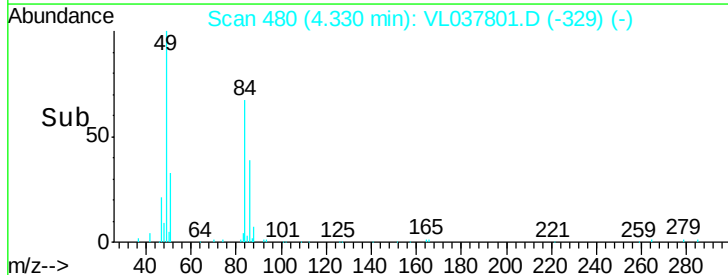
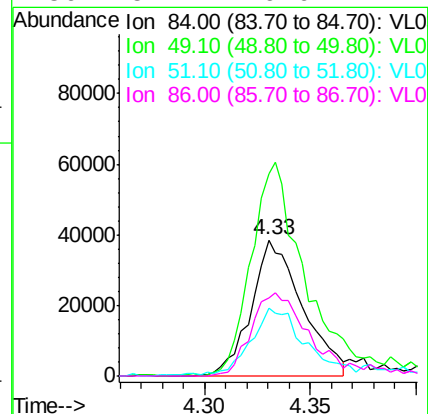
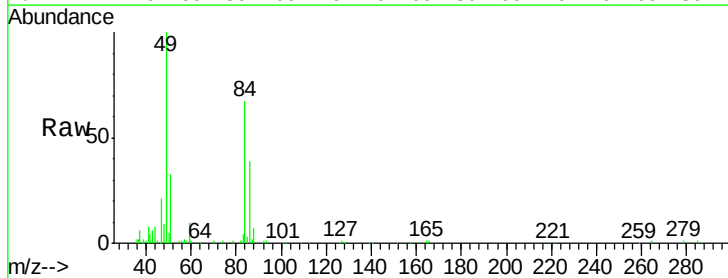
Delta R.T. -0.02 min

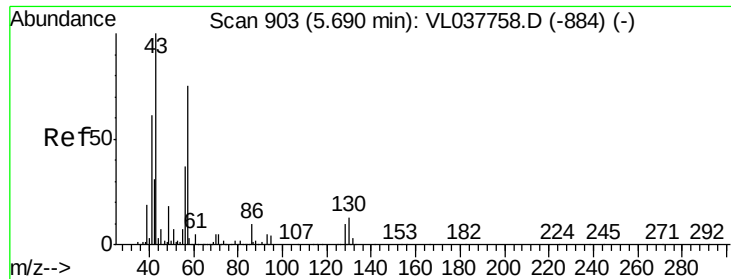
Lab File: VL037801.D

Acq: 7 Oct 2021 18:25

Tgt Ion: 84 Resp: 64829

Ion	Ratio	Lower	Upper
84	100		
49	146.7	120.7	181.1
51	47.9	36.2	54.4
86	57.4	49.6	74.4





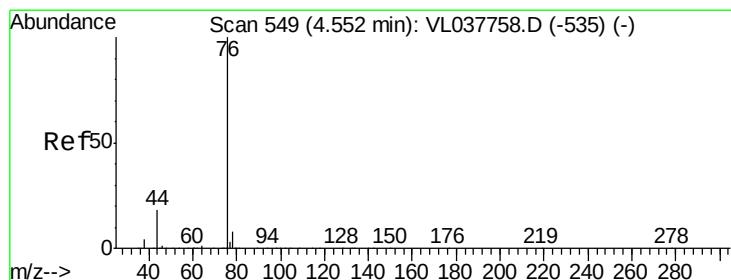
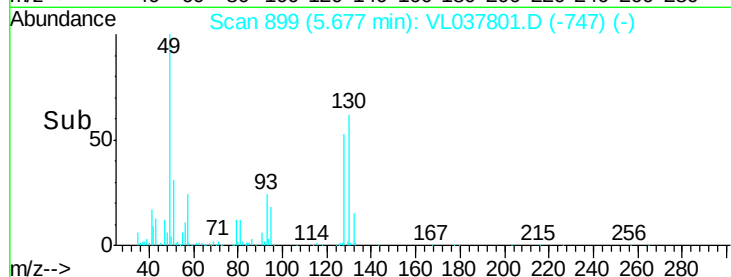
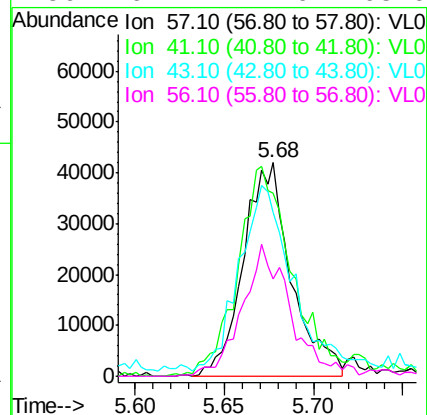
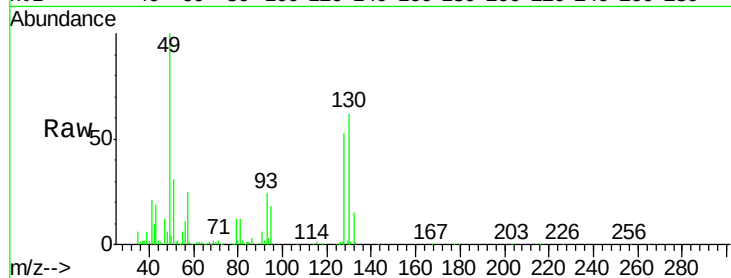
#26
Hexane
Concen: 0.492 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL037801.D
Acq: 7 Oct 2021 18:25

Instrument :
MSVOA_L
ClientSampled :
C0P20

Tgt Ion	Ratio	Lower	Upper
57	100		
41	120.9	69.6	104.4#
43	95.2	171.4	257.0#
56	62.4	42.0	63.0

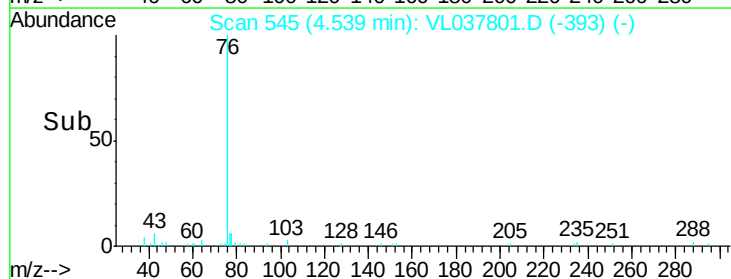
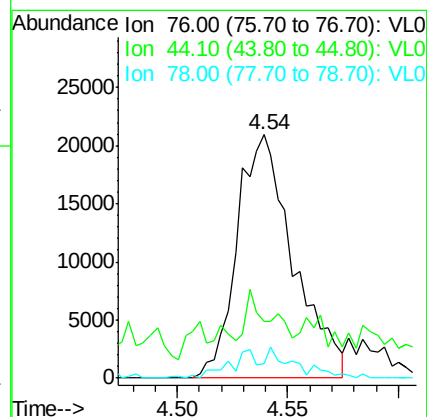
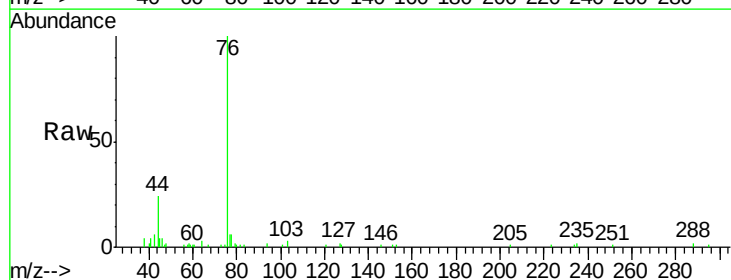
Manual Integrations
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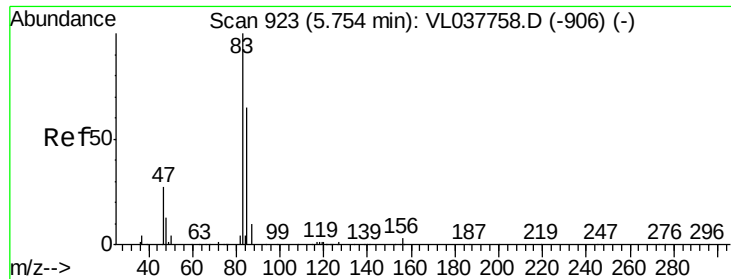
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#27
Carbon Disulfide
Concen: 0.263 ppbv
RT: 4.54 min Scan# 545
Delta R.T. -0.01 min
Lab File: VL037801.D
Acq: 7 Oct 2021 18:25

Tgt Ion	Ratio	Lower	Upper
76	100		
44	21.0	14.3	21.5
78	12.4	7.8	11.6#





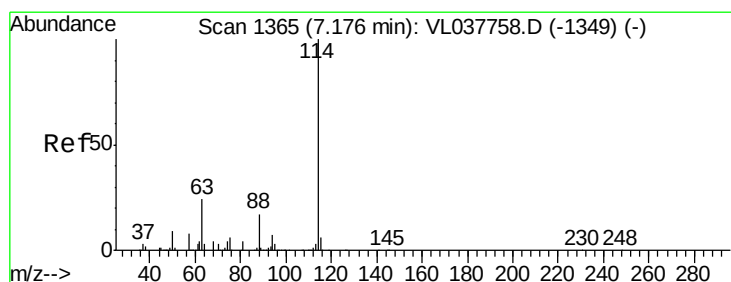
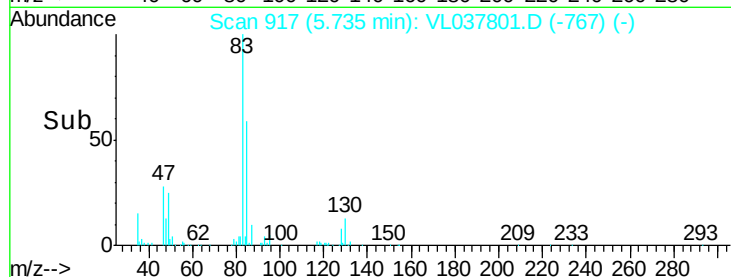
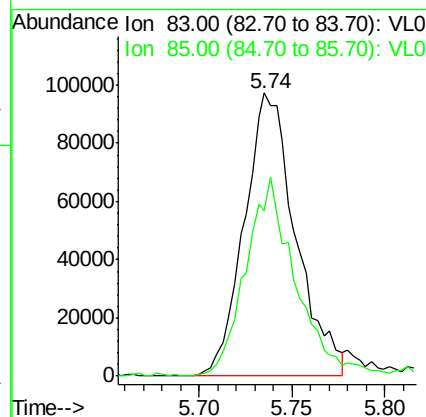
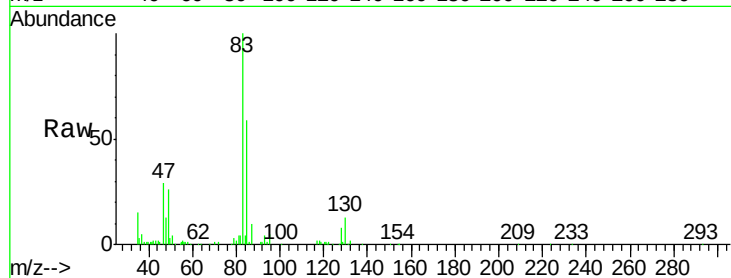
#29
Chloroform
Concen: 0.825 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.02 min
Lab File: VL037801.D
Acq: 7 Oct 2021 18:25

Instrument :
MSVOA_L
ClientSampleId :
C0P20

Tgt Ion: 83 Resp: 188324
Ion Ratio Lower Upper
83 100
85 58.2 51.8 77.8

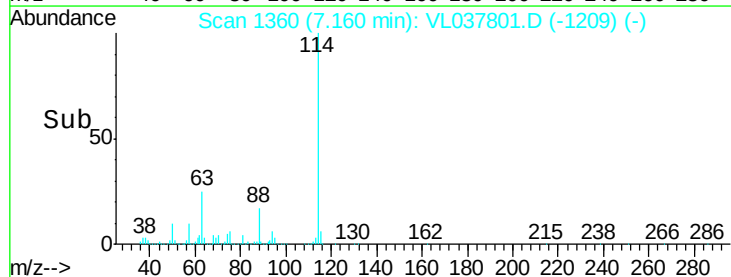
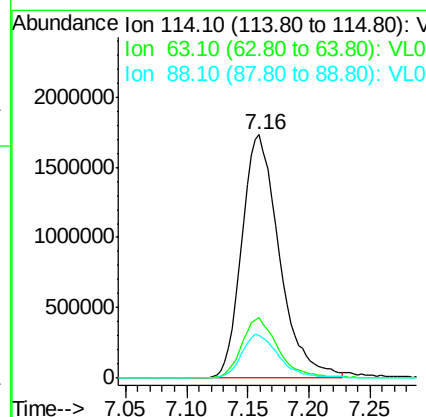
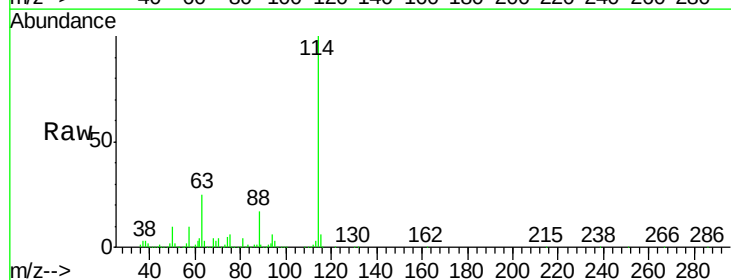
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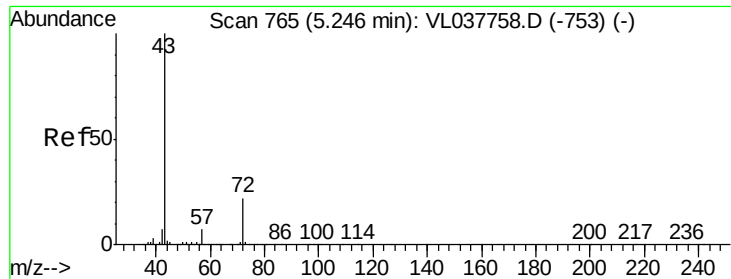
apatel
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.02 min
Lab File: VL037801.D
Acq: 7 Oct 2021 18:25

Tgt Ion: 114 Resp: 3700742
Ion Ratio Lower Upper
114 100
63 24.3 19.4 29.2
88 18.0 14.4 21.6





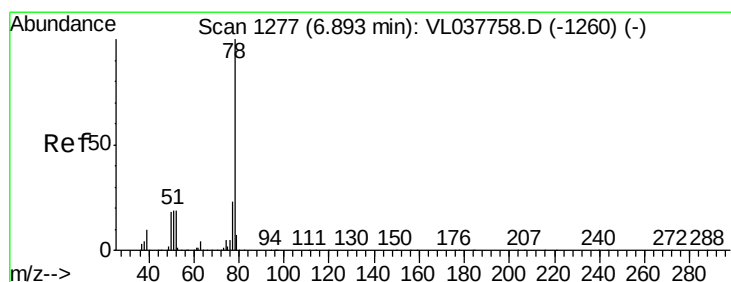
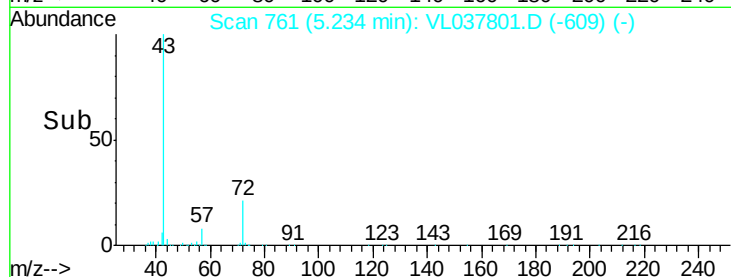
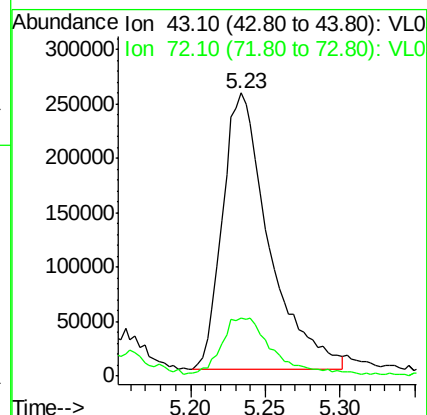
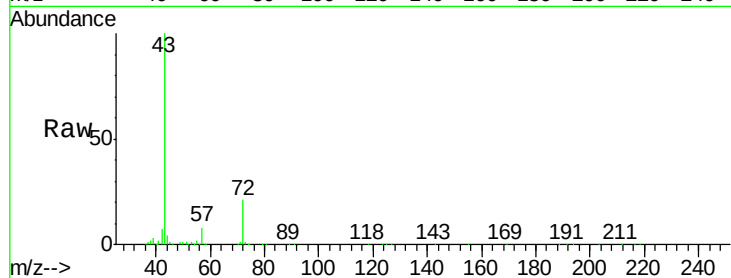
#34
2-Butanone
Concen: 3.692 ppbv
RT: 5.23 min Scan# 761
Delta R.T. -0.01 min
Lab File: VL037801.D
Acq: 7 Oct 2021 18:25

Instrument :
MSVOA_L
ClientSampled :
C0P20

Tgt Ion: 43 Resp: 551544
Ion Ratio Lower Upper
43 100
72 24.8 18.2 27.2

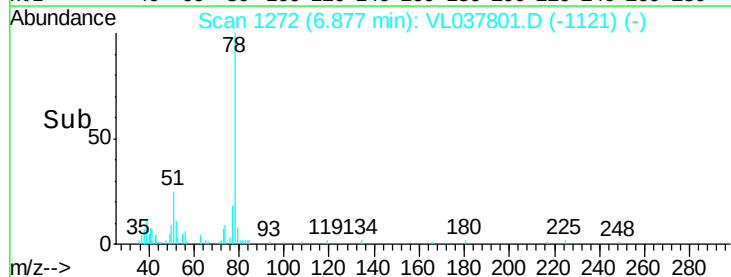
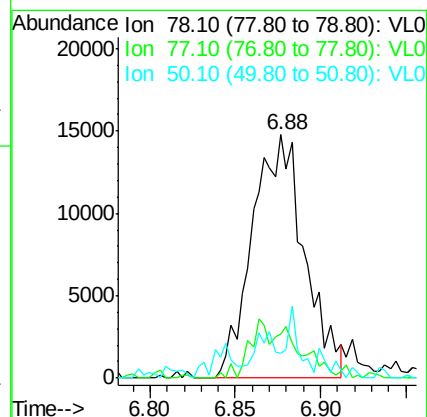
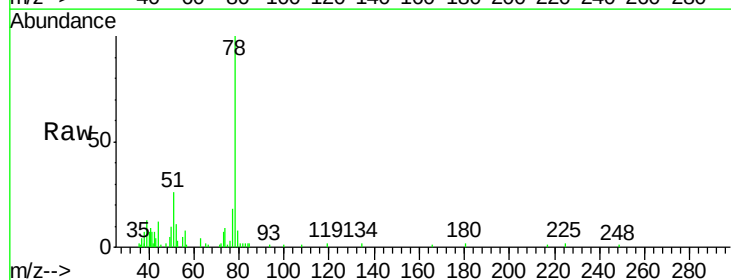
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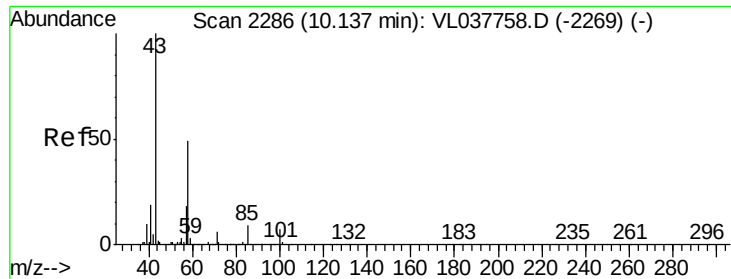
apatel
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#36
Benzene
Concen: 0.099 ppbv m
RT: 6.88 min Scan# 1272
Delta R.T. -0.02 min
Lab File: VL037801.D
Acq: 7 Oct 2021 18:25

Tgt Ion: 78 Resp: 31321
Ion Ratio Lower Upper
78 100
77 17.8 18.8 28.2#
50 10.4 14.7 22.1#





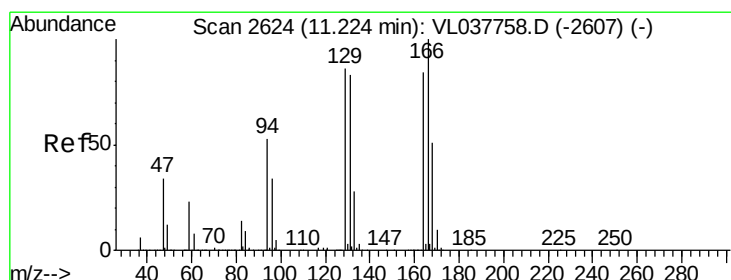
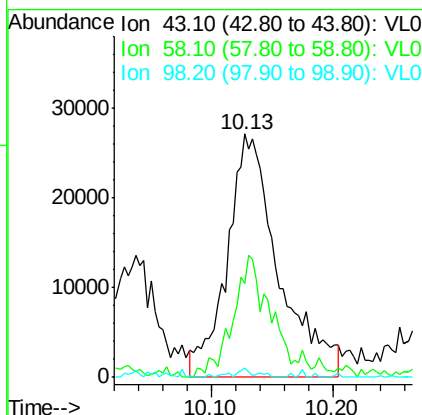
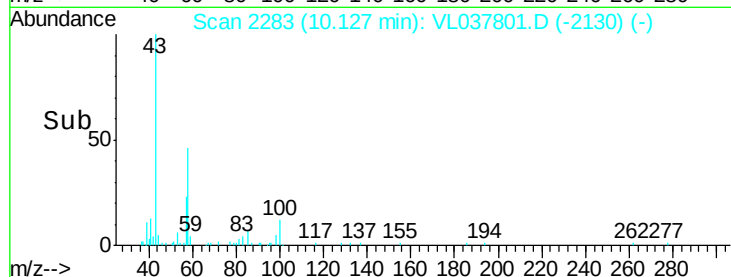
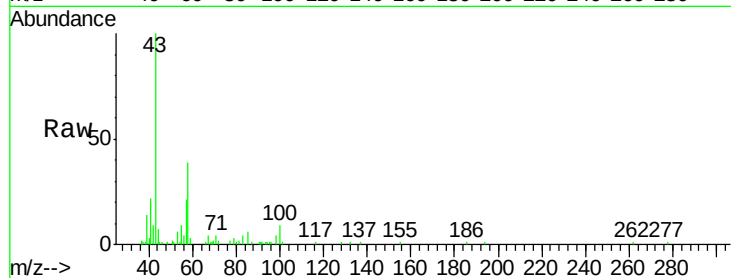
#51
2-Hexanone
Concen: 0.930 ppbv m
RT: 10.13 min Scan# 2283
Delta R.T. -0.01 min
Lab File: VL037801.D
Acq: 7 Oct 2021 18:25

Instrument :
MSVOA_L
ClientSampled :
C0P20

Tgt Ion: 43 Resp: 80732
Ion Ratio Lower Upper
43 100
58 0.0 39.4 59.0#
98 0.0 0.3 0.5#

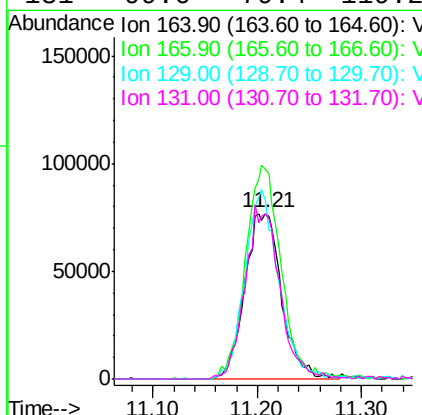
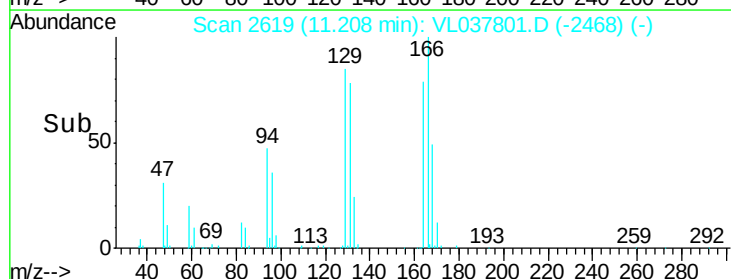
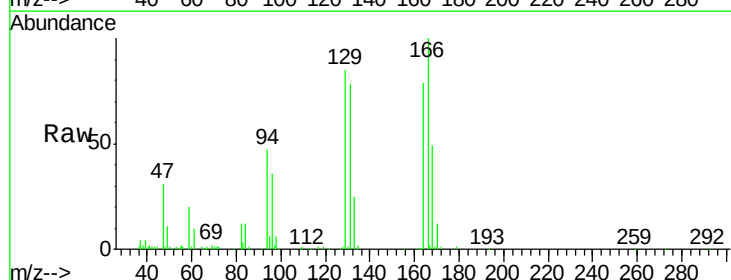
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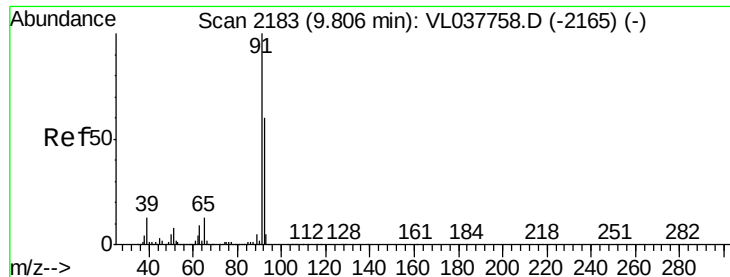
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#52
Tetrachloroethene
Concen: 1.530 ppbv m
RT: 11.21 min Scan# 2619
Delta R.T. -0.02 min
Lab File: VL037801.D
Acq: 7 Oct 2021 18:25

Tgt Ion: 164 Resp: 188133
Ion Ratio Lower Upper
164 100
166 127.0 95.4 143.2
129 108.4 82.2 123.4
131 99.6 79.4 119.2





#53

Toluene

Concen: 0.173 ppbv m

RT: 9.79 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL037801.D

Acq: 7 Oct 2021 18:25

Instrument :

MSVOA_L

ClientSampleId :

C0P20

Tgt Ion: 91 Resp: 60717

Ion Ratio Lower Upper

91 100

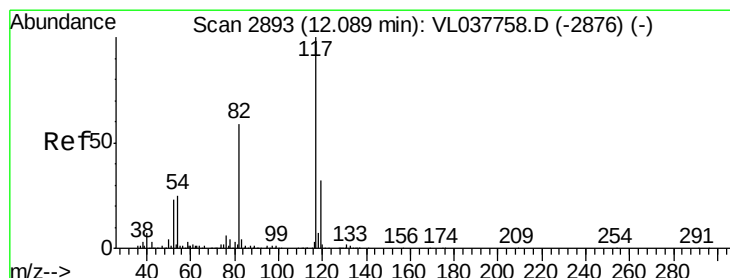
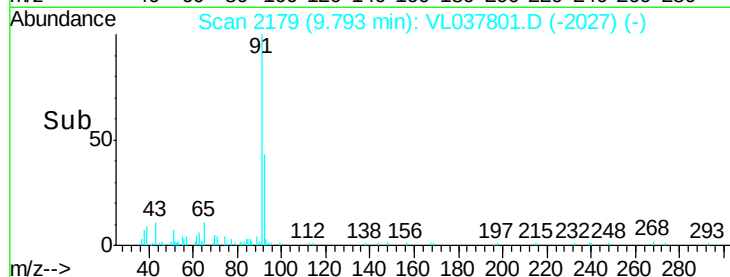
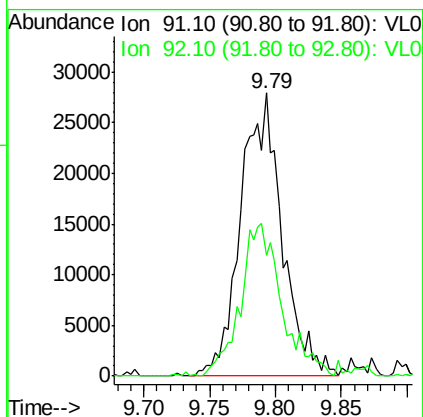
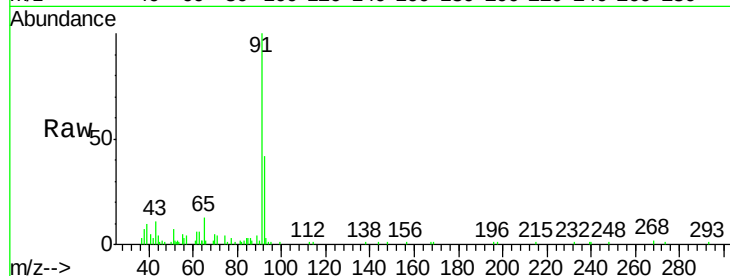
92 0.0 48.4 72.6#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.02 min

Lab File: VL037801.D

Acq: 7 Oct 2021 18:25

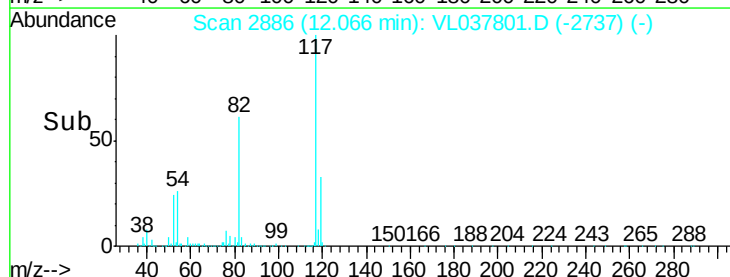
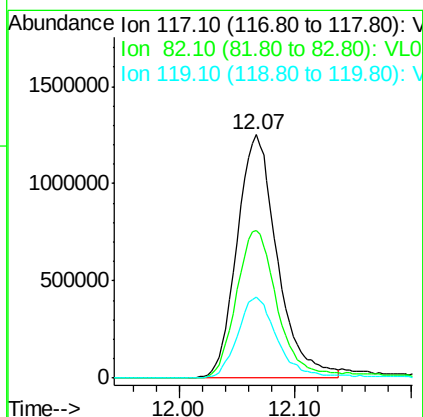
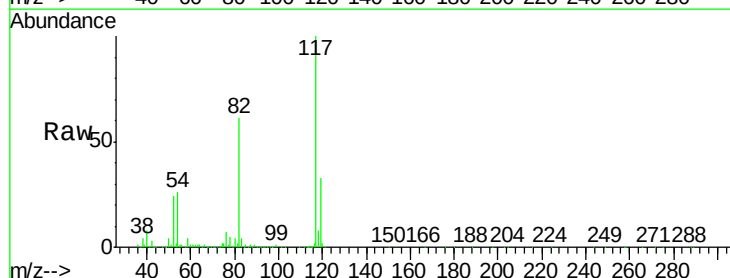
Tgt Ion: 117 Resp: 3027552

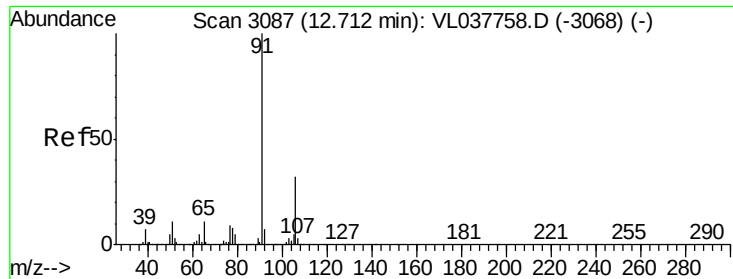
Ion Ratio Lower Upper

117 100

82 65.5 52.2 78.2

119 33.6 26.0 39.0





#58

Ethyl Benzene

Concen: 0.282 ppbv m

RT: 12.69 min Scan# 3081

Delta R.T. -0.02 min

Lab File: VL037801.D

Acq: 7 Oct 2021 18:25

Instrument :

MSVOA_L

ClientSampled :

C0P20

Tgt Ion: 91 Resp: 114679

Ion Ratio Lower Upper

91 100

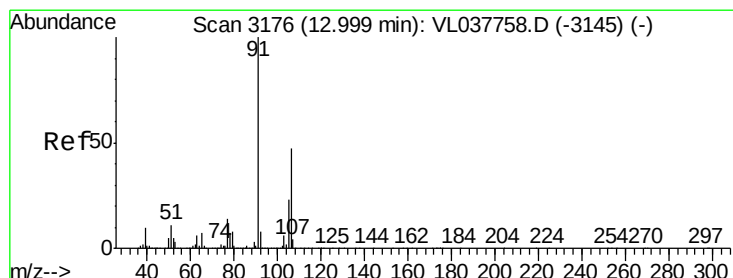
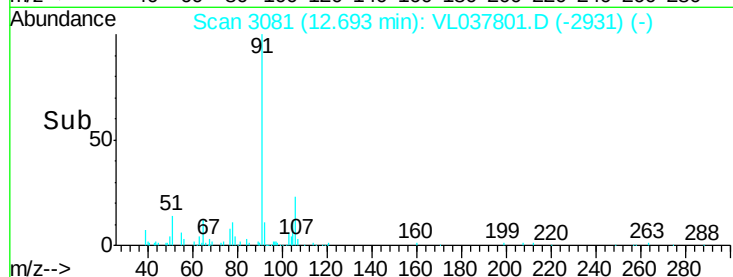
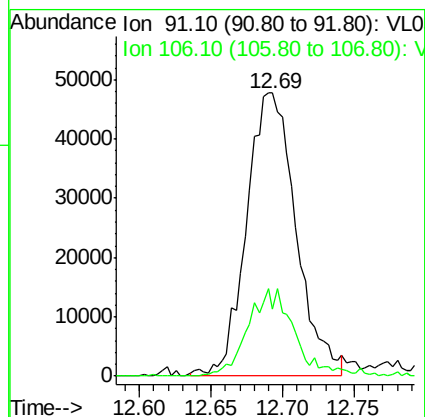
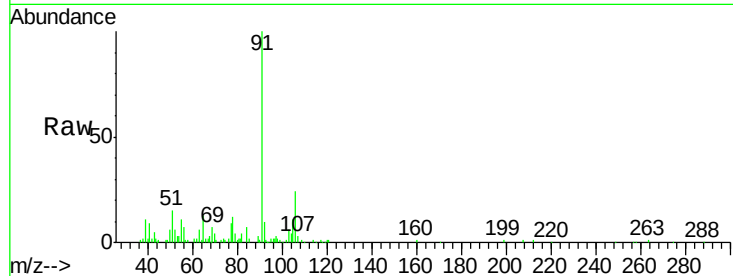
106 23.9 25.3 37.9#

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#59

m/p-Xylene

Concen: 1.042 ppbv m

RT: 12.95 min Scan# 3161

Delta R.T. -0.05 min

Lab File: VL037801.D

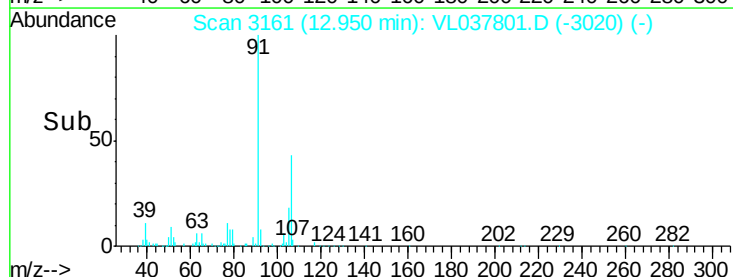
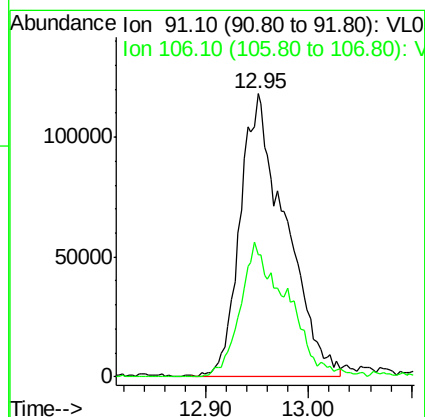
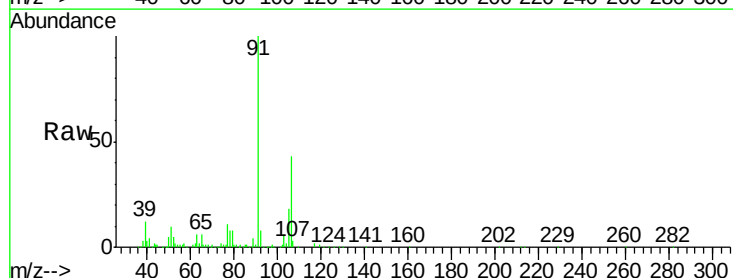
Acq: 7 Oct 2021 18:25

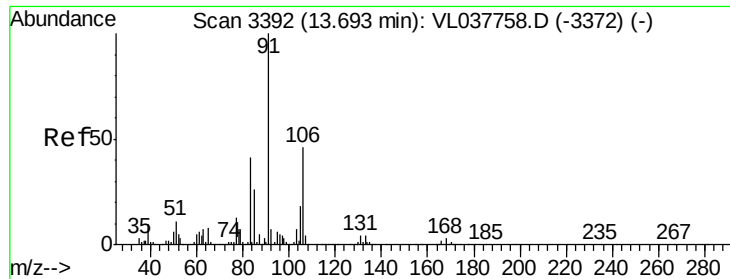
Tgt Ion: 91 Resp: 363770

Ion Ratio Lower Upper

91 100

106 48.8 36.7 55.1





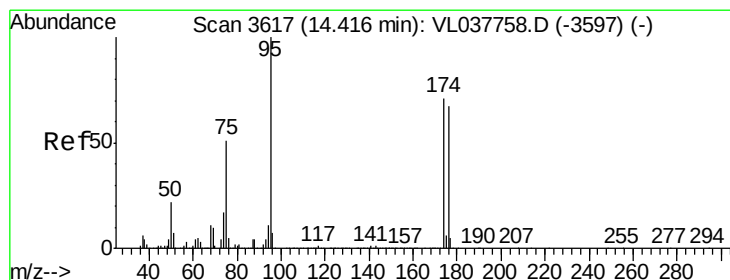
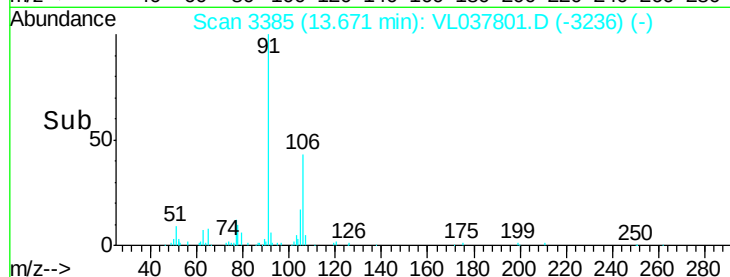
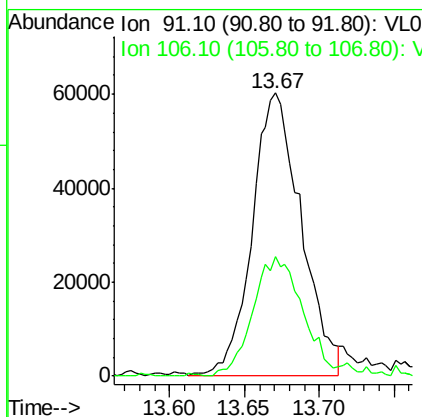
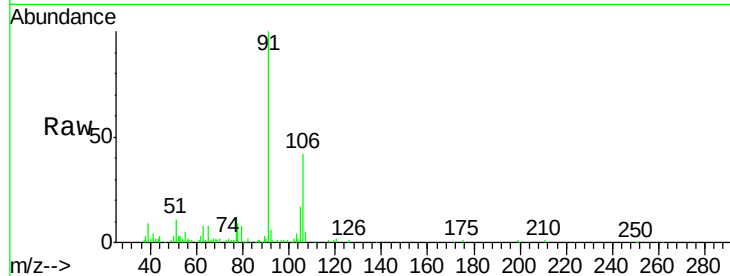
#60
o-Xylene
Concen: 0.410 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.02 min
Lab File: VL037801.D
Acq: 7 Oct 2021 18:25

Instrument :
MSVOA_L
ClientSampled :
C0P20

Tgt Ion: 91 Resp: 137220
Ion Ratio Lower Upper
91 100
106 44.8 23.5 70.5

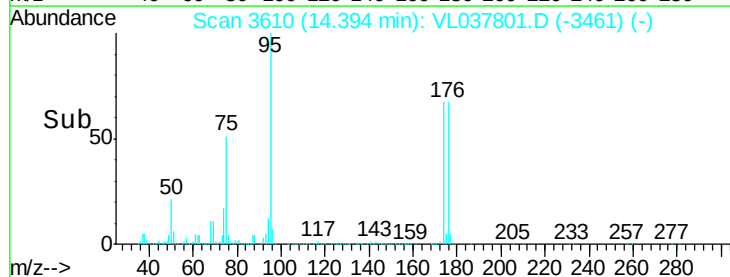
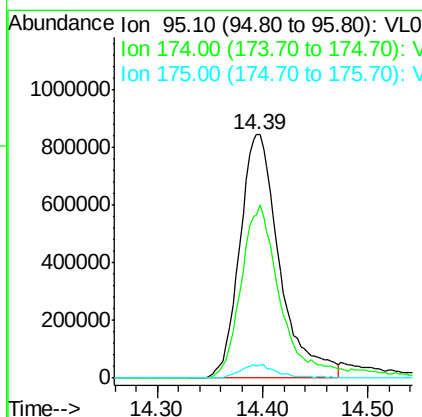
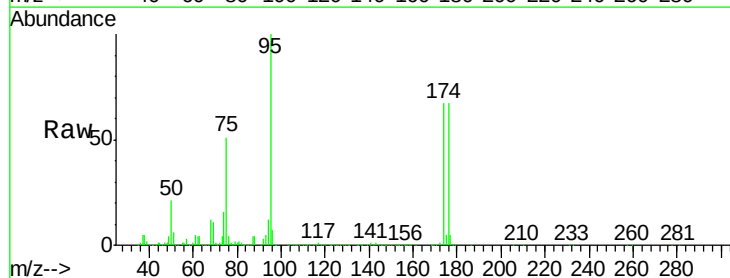
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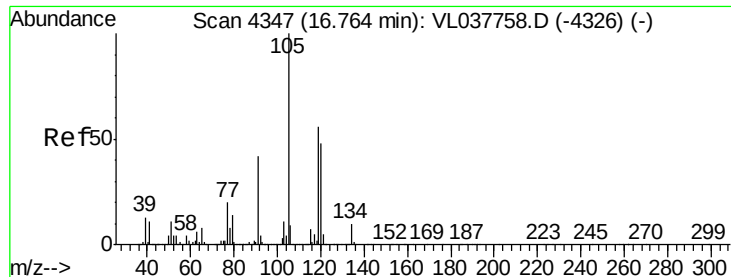
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.502 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.02 min
Lab File: VL037801.D
Acq: 7 Oct 2021 18:25

Tgt Ion: 95 Resp: 2223404
Ion Ratio Lower Upper
95 100
174 74.3 57.8 86.6
175 5.0 4.7 7.1





#74

1,2,4-Trimethylbenzene

Concen: 0.191 ppbv m

RT: 16.74 min Scan# 4341

Delta R.T. -0.02 min

Lab File: VL037801.D

Acq: 7 Oct 2021 18:25

Instrument :

MSVOA_L

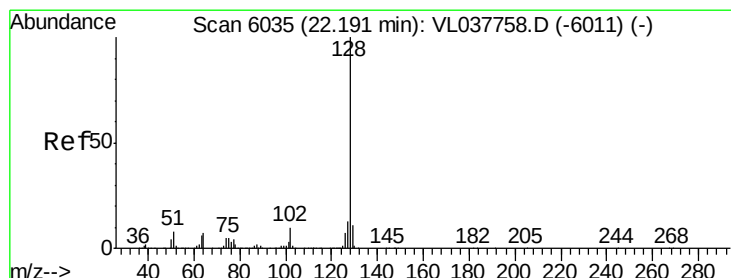
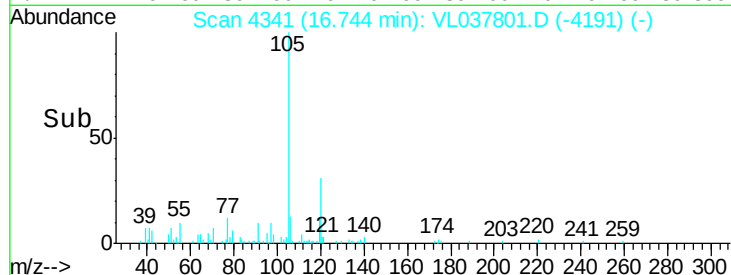
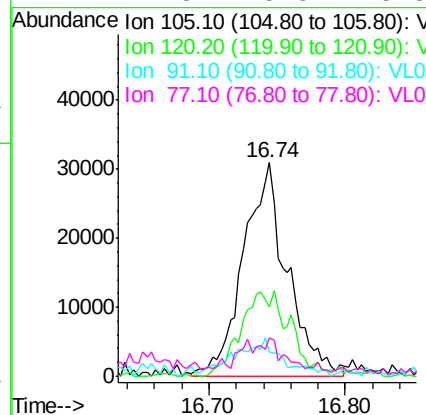
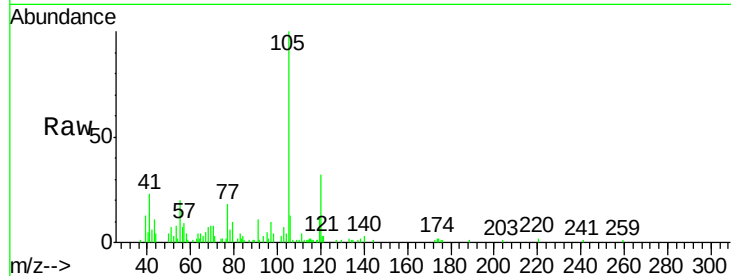
ClientSampleId :

C0P20

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	69125		
120	32.2	38.4	57.6#	
91	11.4	34.2	51.2#	
77	17.8	15.8	23.8	

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#79

Naphthalene

Concen: 0.165 ppbv m

RT: 22.18 min Scan# 6031

Delta R.T. -0.01 min

Lab File: VL037801.D

Acq: 7 Oct 2021 18:25

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	36600		
127	13.9	10.1	15.1	
129	8.2	9.1	13.7#	

