

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
 Data File : VL037820.D
 Acq On : 8 Oct 2021 6:54
 Operator : SY/AP
 Sample : M4079-12
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P12

Manual Integrations
 APPROVED

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 10/14/2021 1:19:12 PM

Quant Time: Oct 08 11:36:47 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	1260302	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	3648270	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	3026261	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2175343	10.28	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	27288	0.136	ppbv	98
3) Chlorodifluoromethane	2.98	51	23025	0.095	ppbv	96
4) Chloromethane	3.13	50	9194m	0.104	ppbv	
9) Propene	3.01	41	15424m	0.173	ppbv	
11) Trichlorofluoromethane	3.94	101	36074m	0.201	ppbv	
13) Ethanol	3.60	45	69597m	9.551	ppbv	
15) Acetone	3.84	43	707298	6.252	ppbv	96
17) tert-Butyl alcohol	4.30	59	31110m	0.267	ppbv	
19) Isopropyl Alcohol	3.97	45	38096m	0.541	ppbv	
20) Methylene Chloride	4.34	84	103186	1.805	ppbv	91
26) Hexane	5.68	57	138848m	0.888	ppbv	
27) Carbon Disulfide	4.55	76	22285m	0.161	ppbv	
29) Chloroform	5.74	83	24993m	0.112	ppbv	
34) 2-Butanone	5.25	43	72778m	0.494	ppbv	
52) Tetrachloroethene	11.20	164	150060	1.238	ppbv	92
53) Toluene	9.79	91	94876m	0.275	ppbv	
59) m/p-Xylene	12.95	91	37333m	0.107	ppbv	

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

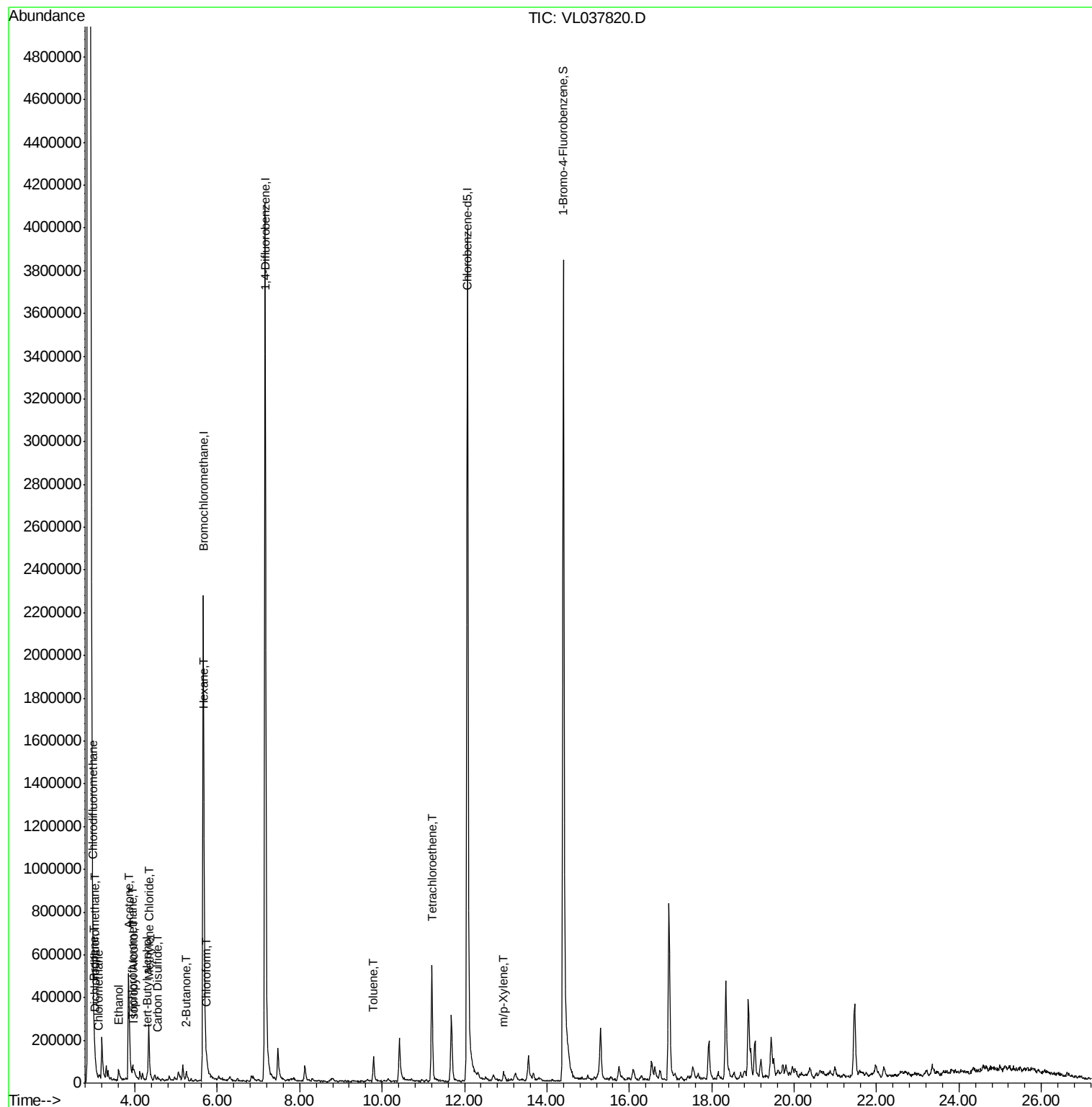
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
Data File : VL037820.D
Acq On : 8 Oct 2021 6:54
Operator : SY/AP
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

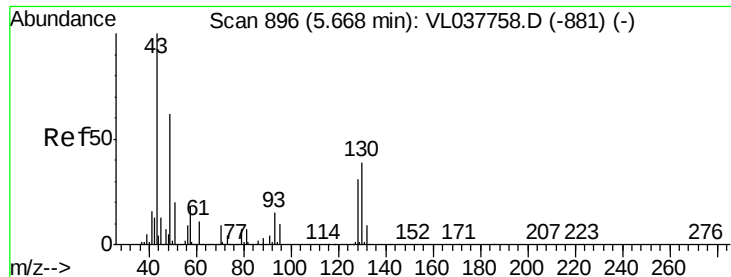
Instrument :
MSVOA_L
ClientSampleId :
C0P12

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Quant Time: Oct 08 11:36:47 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# 892

Delta R.T. -0.01 min

Lab File: VL037820.D

Acq: 8 Oct 2021 6:54

Instrument :

MSVOA_L

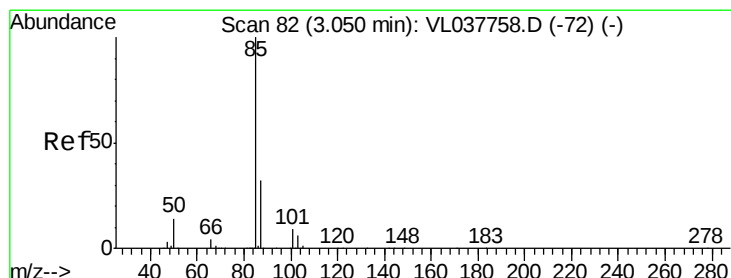
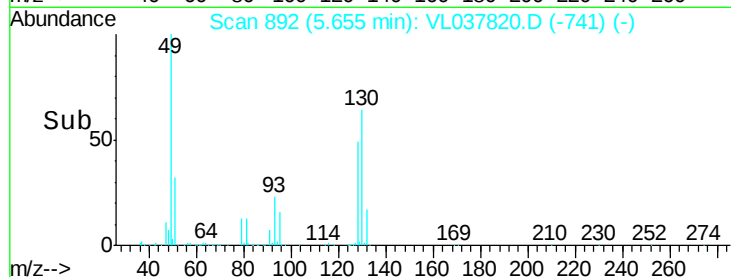
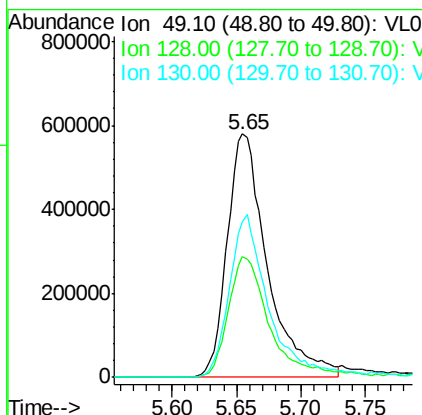
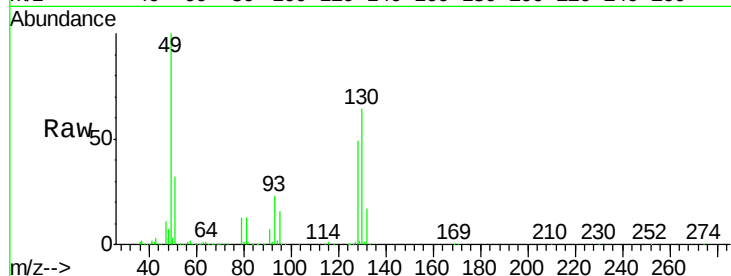
ClientSampled :

C0P12

Tgt Ion:	49	Resp:	1260302
Ion	Ratio	Lower	Upper
49	100		
128	51.7	27.1	81.3
130	67.3	33.2	99.6

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#2

Dichlorodifluoromethane

Concen: 0.136 ppbv

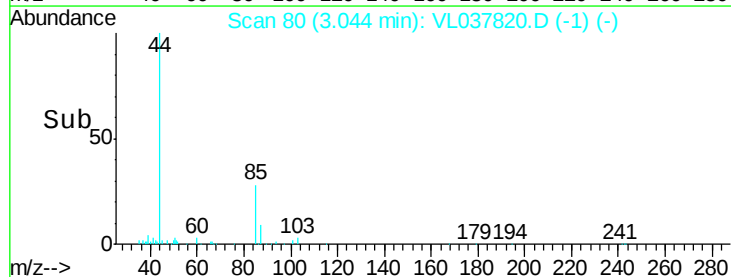
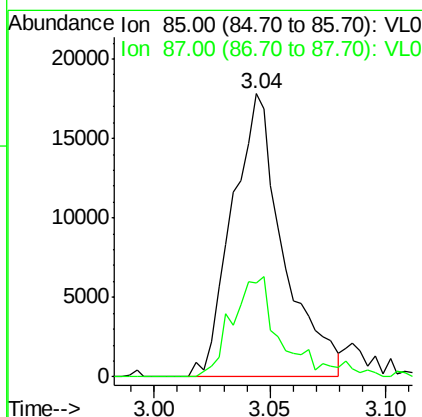
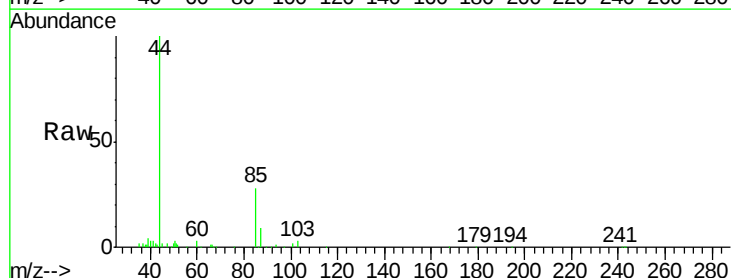
RT: 3.04 min Scan# 80

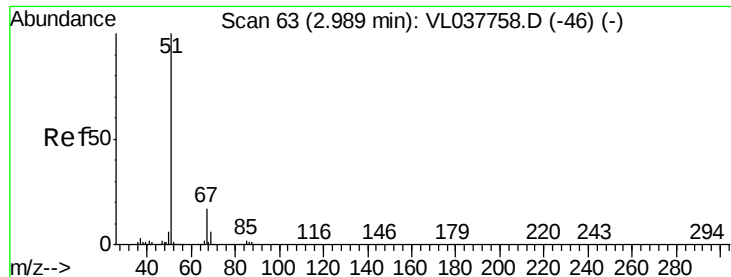
Delta R.T. -0.01 min

Lab File: VL037820.D

Acq: 8 Oct 2021 6:54

Tgt Ion:	85	Resp:	27288
Ion	Ratio	Lower	Upper
85	100		
87	33.0	25.7	38.5





#3

Chlorodifluoromethane

Concen: 0.095 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.01 min

Lab File: VL037820.D

Acq: 8 Oct 2021 6:54

Instrument :

MSVOA_L

ClientSampleId :

C0P12

Tgt Ion: 51 Resp: 23025

Ion Ratio Lower Upper

51 100

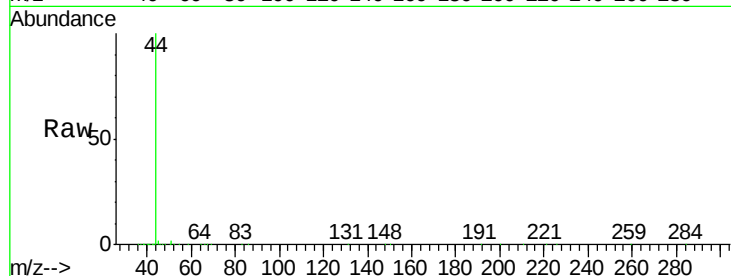
67 15.0 13.5 20.3

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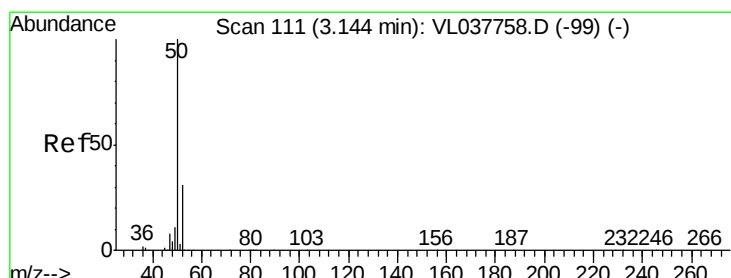
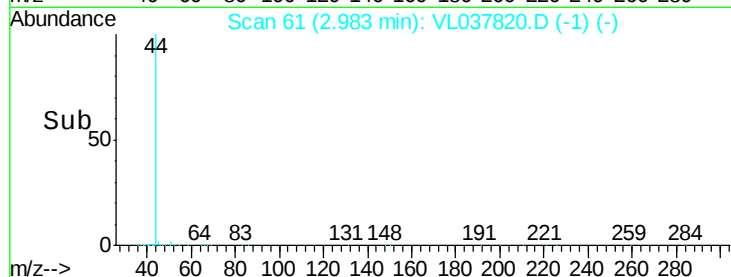
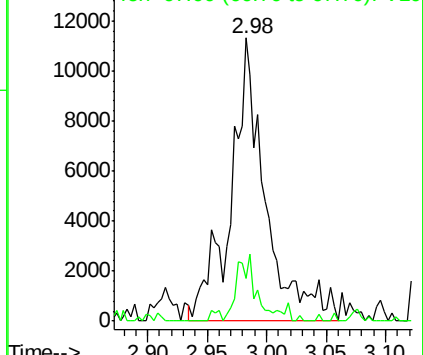
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.104 ppbv m

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037820.D

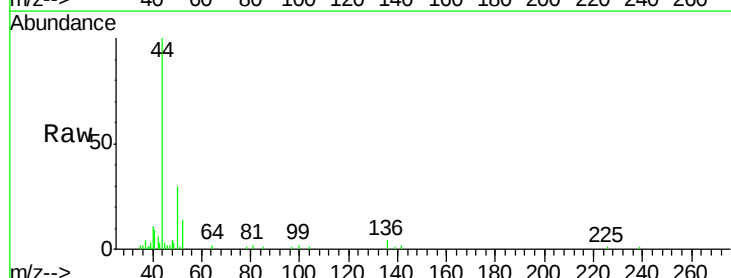
Acq: 8 Oct 2021 6:54

Tgt Ion: 50 Resp: 9194

Ion Ratio Lower Upper

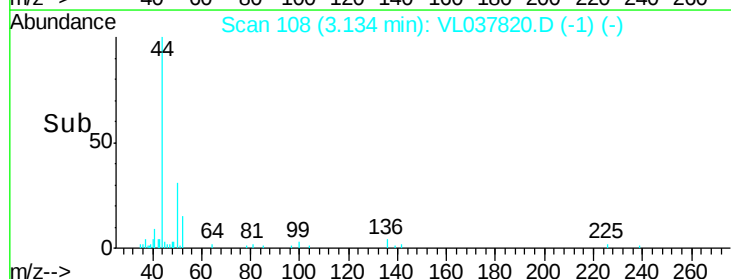
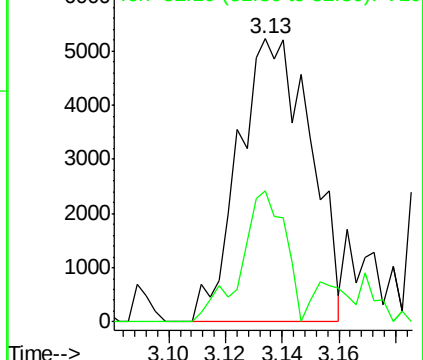
50 100

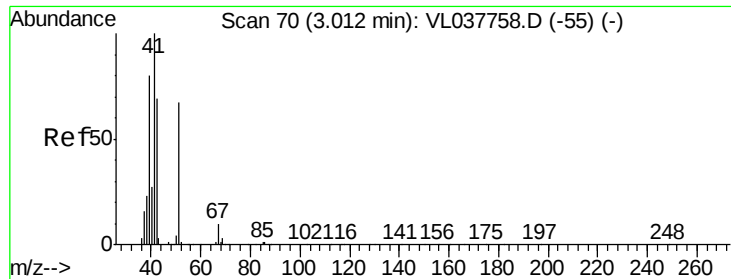
52 46.4 24.4 36.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.173 ppbv m

RT: 3.01 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL037820.D

Acq: 8 Oct 2021 6:54

Instrument :

MSVOA_L

ClientSampled :

C0P12

Tgt Ion: 41 Resp: 15424

Ion Ratio Lower Upper

41 100

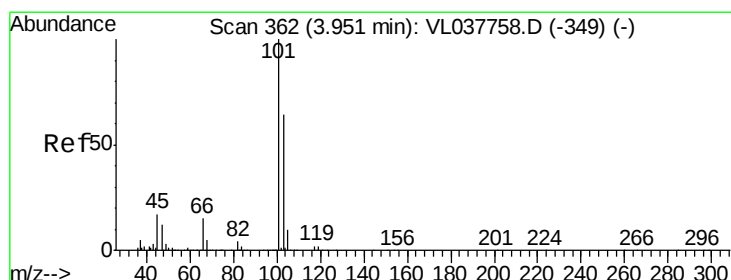
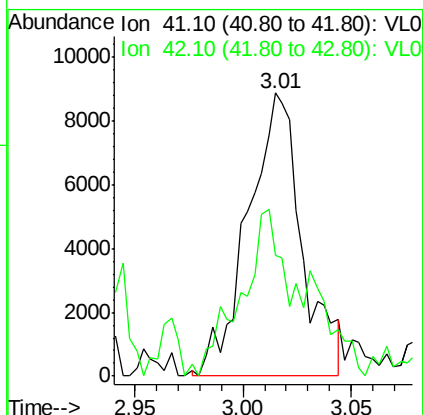
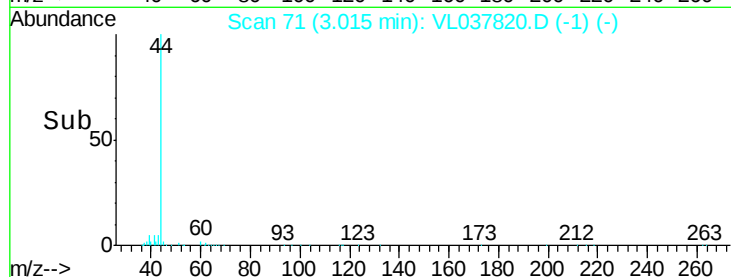
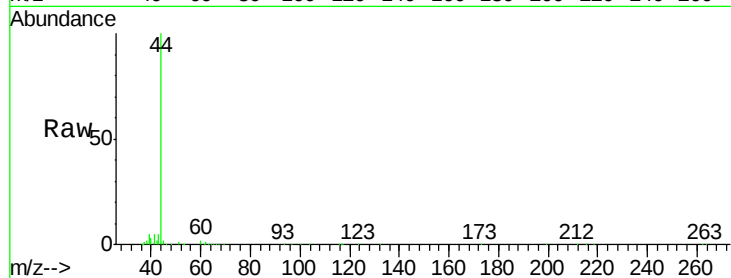
42 73.8 54.2 81.2

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#11

Trichlorofluoromethane

Concen: 0.201 ppbv m

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL037820.D

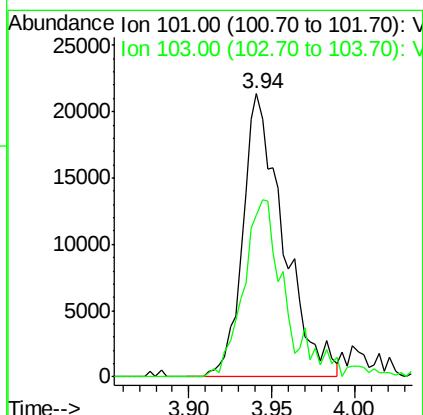
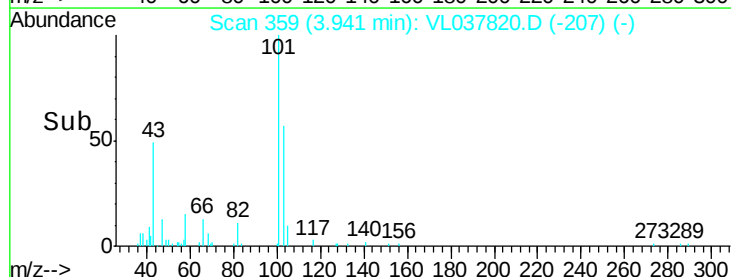
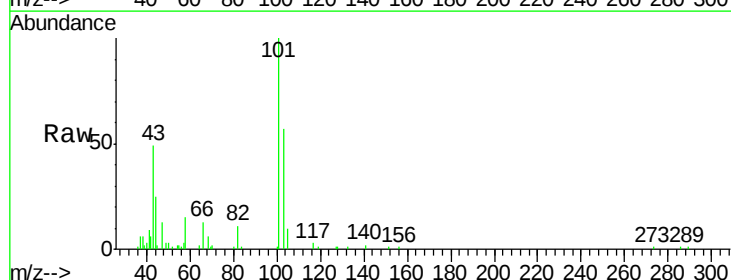
Acq: 8 Oct 2021 6:54

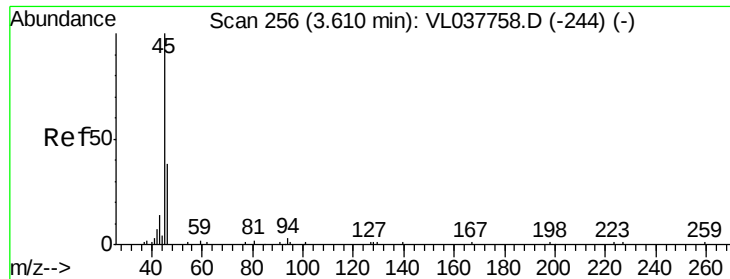
Tgt Ion: 101 Resp: 36074

Ion Ratio Lower Upper

101 100

103 57.3 51.5 77.3





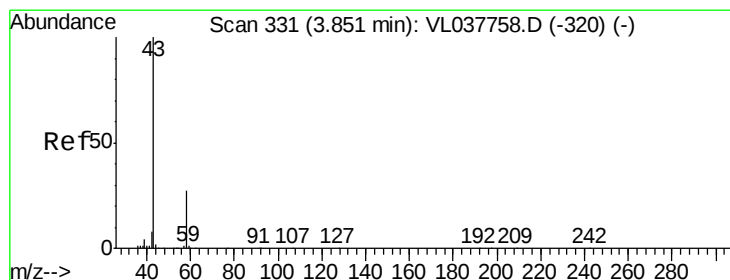
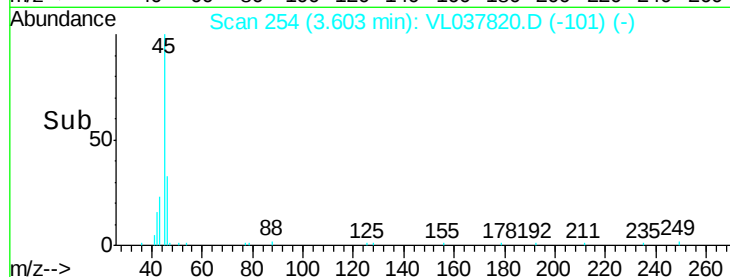
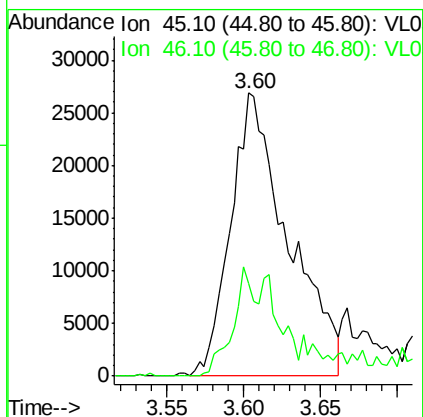
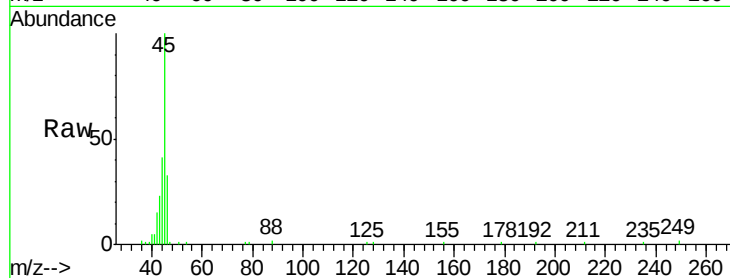
#13
Ethanol
Concen: 9.551 ppbv m
RT: 3.60 min Scan# 254
Delta R.T. -0.01 min
Lab File: VL037820.D
Acq: 8 Oct 2021 6:54

Instrument :
MSVOA_L
ClientSampleId :
C0P12

Tgt Ion: 45 Resp: 69597
Ion Ratio Lower Upper
45 100
46 31.0 20.2 81.0

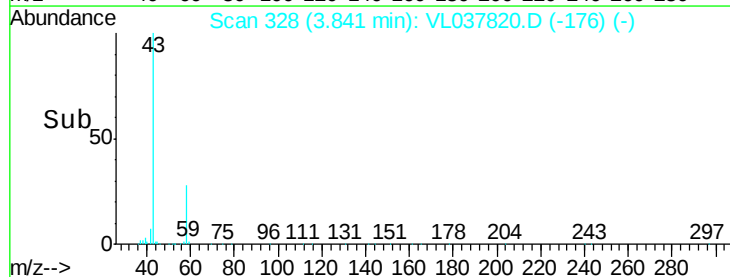
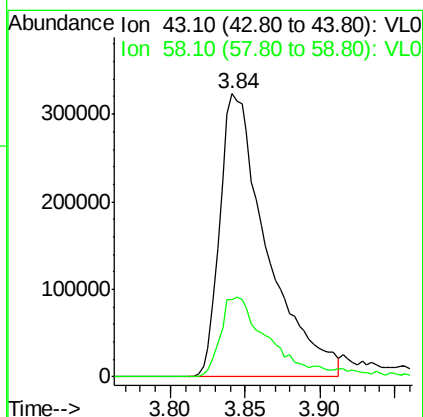
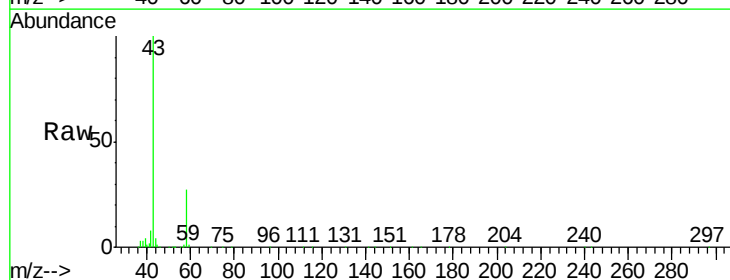
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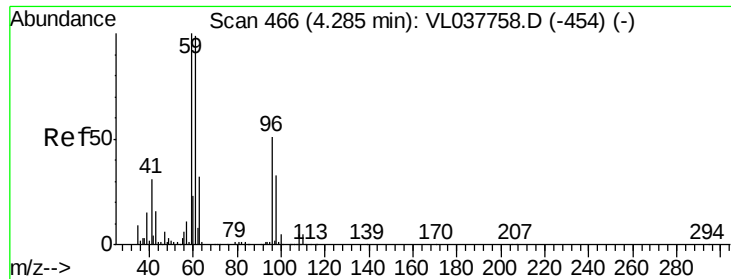
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#15
Acetone
Concen: 6.252 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL037820.D
Acq: 8 Oct 2021 6:54

Tgt Ion: 43 Resp: 707298
Ion Ratio Lower Upper
43 100
58 31.1 23.0 34.6





#17

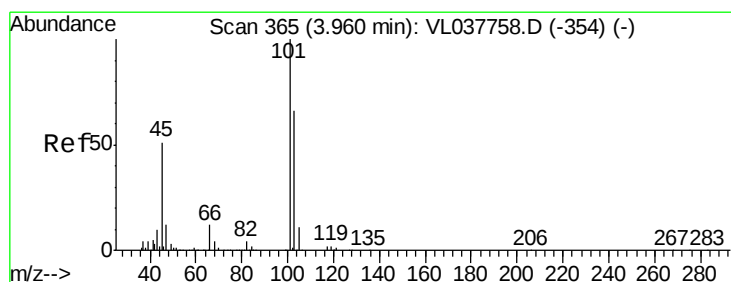
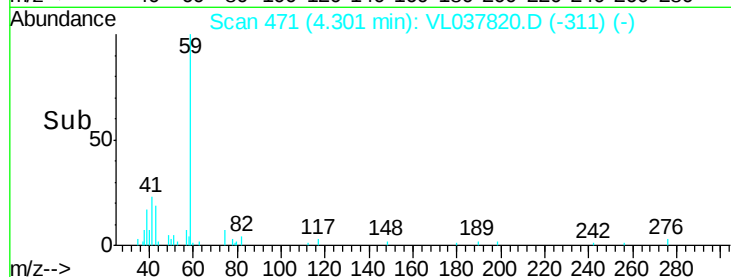
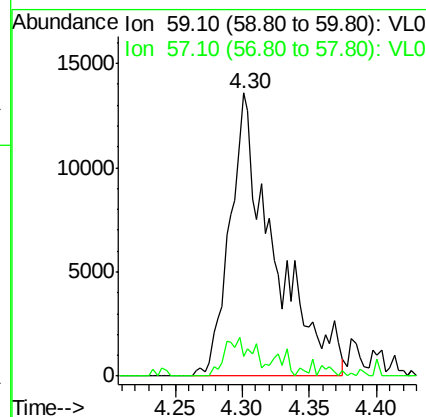
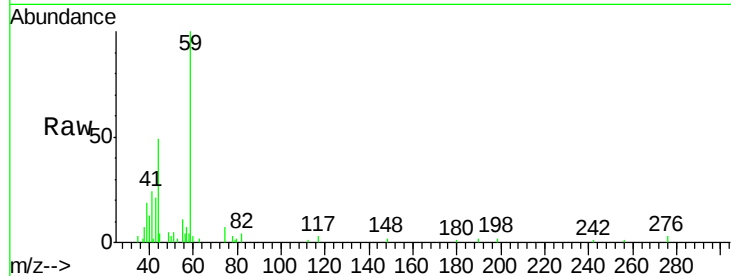
tert-Butyl alcohol
Concen: 0.267 ppbv m
RT: 4.30 min Scan# 471
Delta R.T. 0.02 min
Lab File: VL037820.D
Acq: 8 Oct 2021 6:54

Instrument :
MSVOA_L
ClientSampled :
C0P12

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

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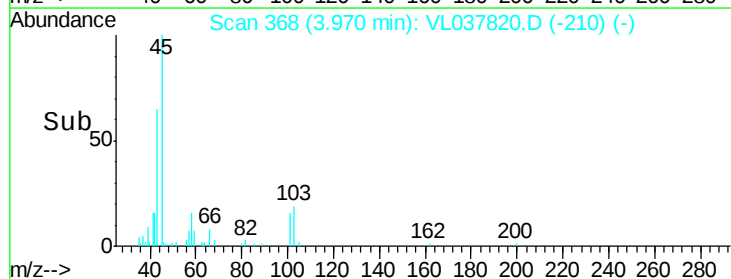
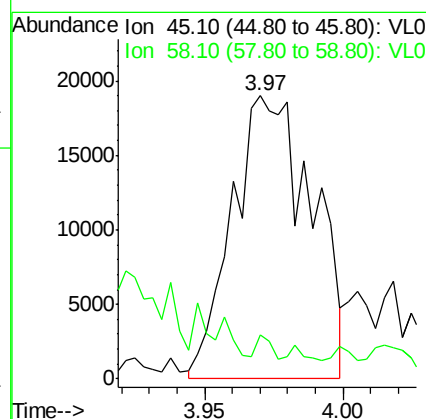
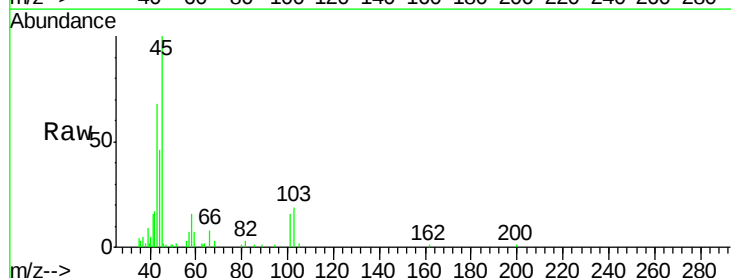
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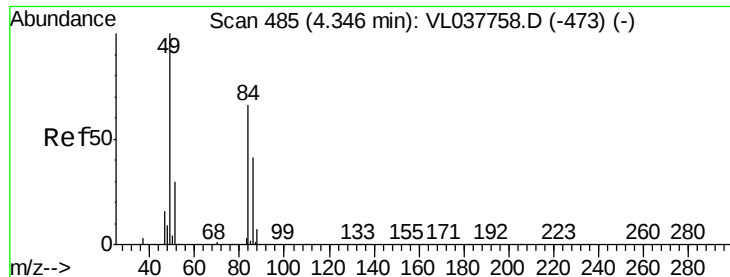


#19

Isopropyl Alcohol
Concen: 0.541 ppbv m
RT: 3.97 min Scan# 368
Delta R.T. 0.01 min
Lab File: VL037820.D
Acq: 8 Oct 2021 6:54

Tgt Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.1	1.7#





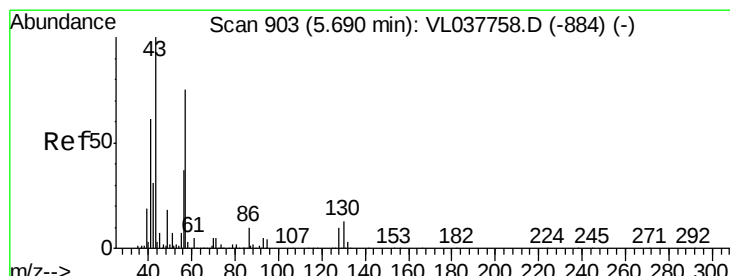
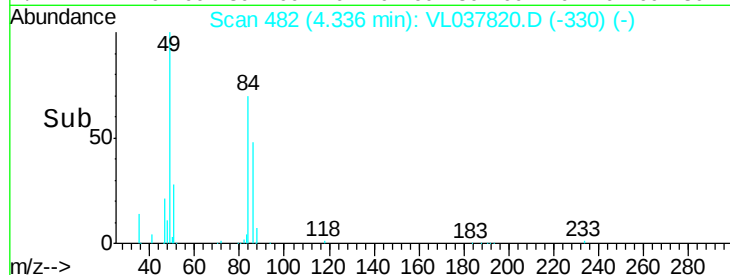
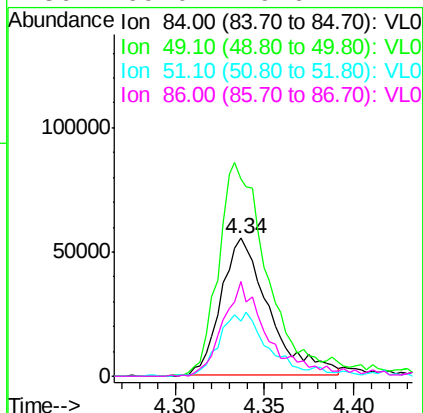
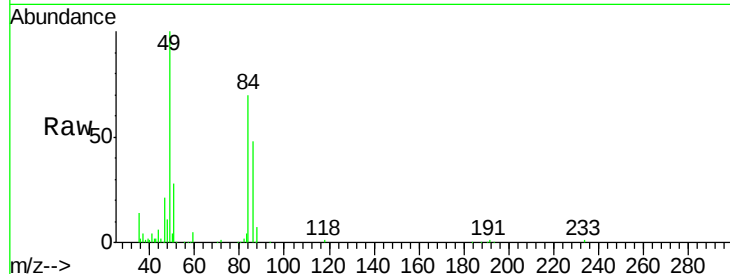
#20
Methylene Chloride
Concen: 1.805 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL037820.D
Acq: 8 Oct 2021 6:54

Instrument :
MSVOA_L
ClientSampleId :
C0P12

Tgt Ion	Ratio	Lower	Upper
84	100		
49	140.4	120.7	181.1
51	38.9	36.2	54.4
86	69.0	49.6	74.4

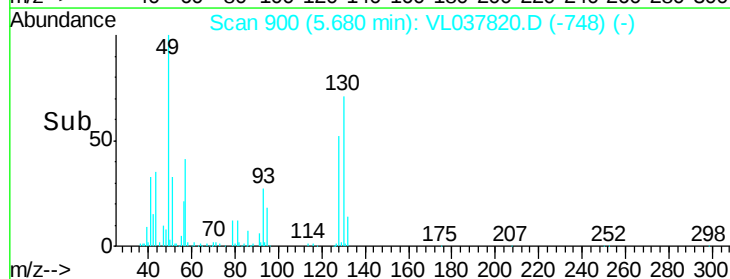
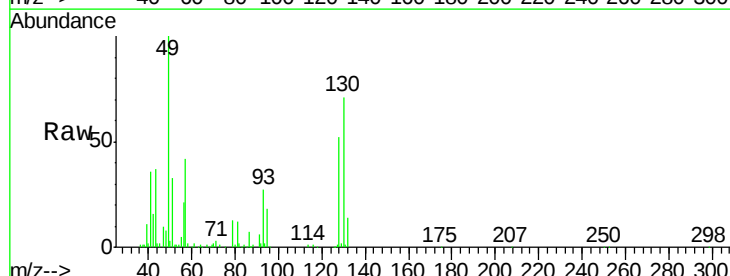
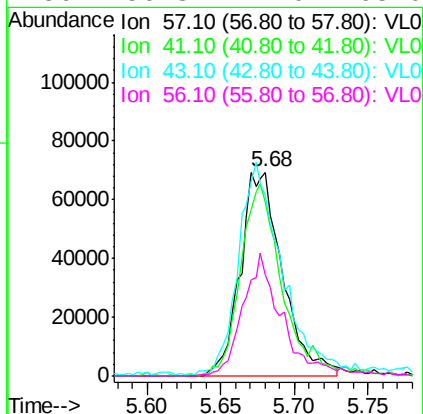
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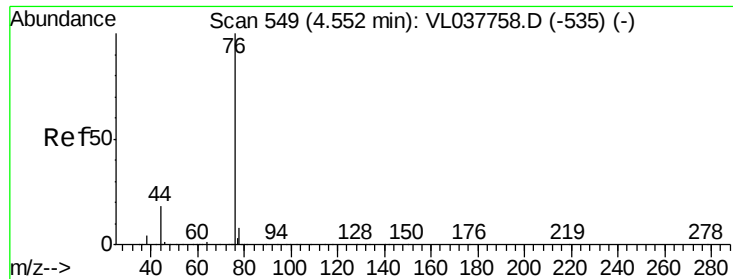
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#26
Hexane
Concen: 0.888 ppbv m
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL037820.D
Acq: 8 Oct 2021 6:54

Tgt Ion	Ratio	Lower	Upper
57	100		
41	95.5	69.6	104.4
43	108.6	171.4	257.0#
56	56.3	42.0	63.0





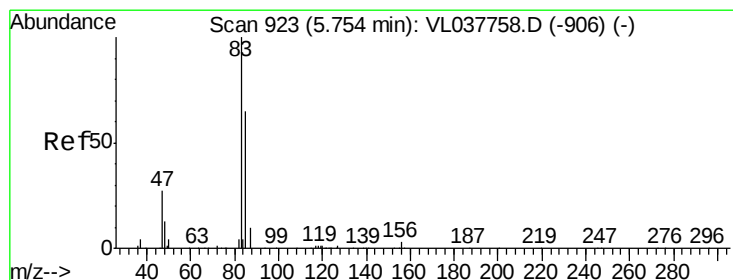
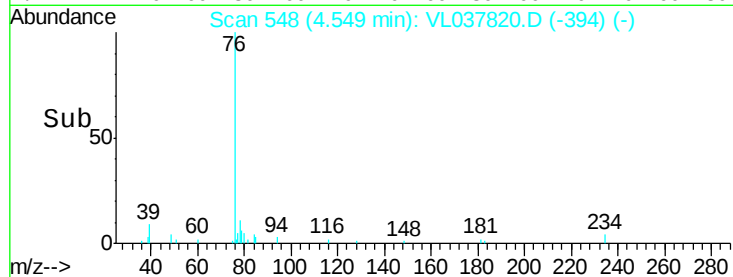
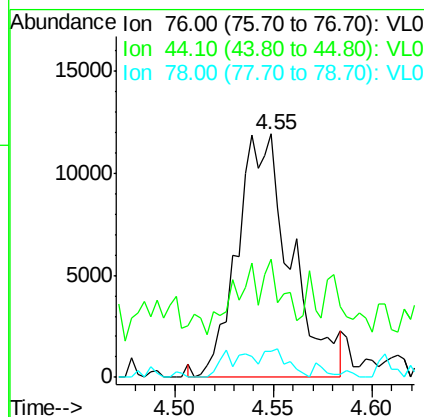
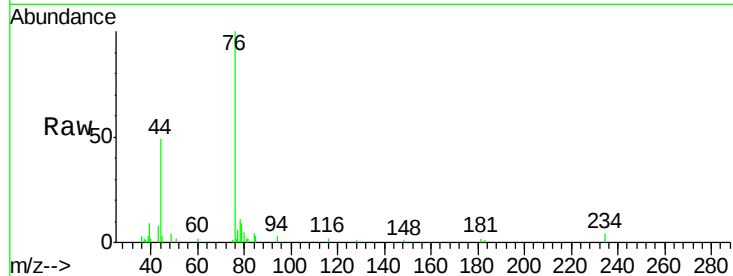
#27
Carbon Disulfide
Concen: 0.161 ppbv m
RT: 4.55 min Scan# 548
Delta R.T. -0.00 min
Lab File: VL037820.D
Acq: 8 Oct 2021 6:54

Instrument :
MSVOA_L
ClientSampleId :
C0P12

Tgt Ion	Ratio	Lower	Upper
76	100		
44	0.0	14.3	21.5#
78	0.0	7.8	11.6#

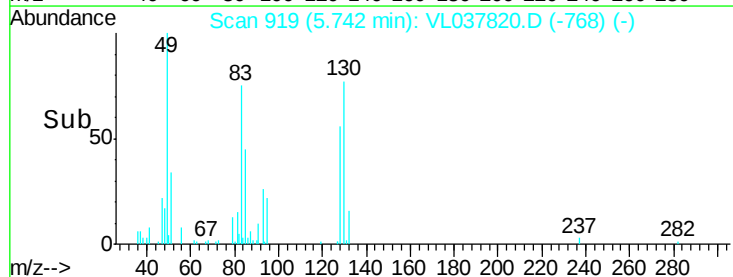
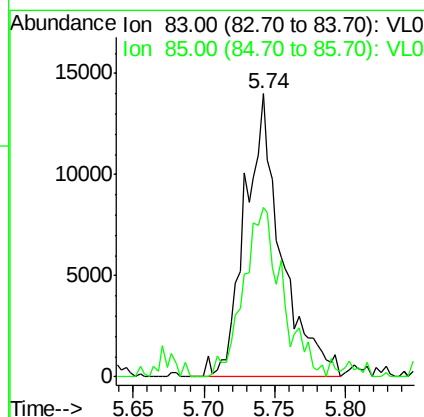
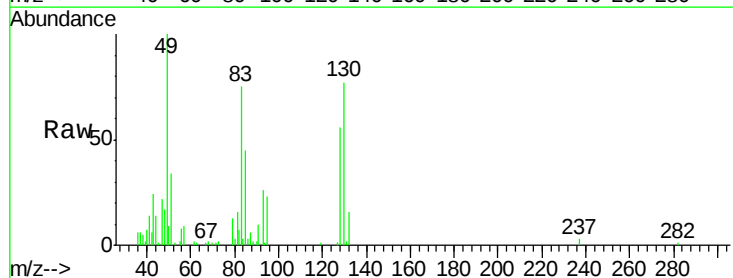
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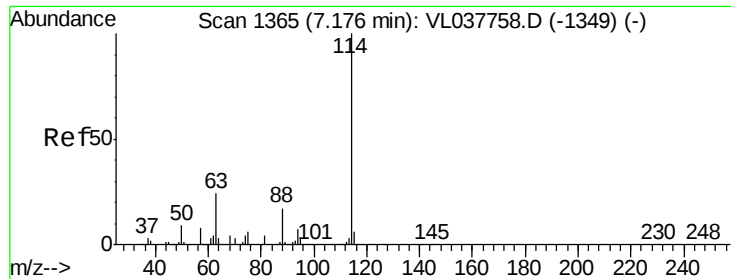
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#29
Chloroform
Concen: 0.112 ppbv m
RT: 5.74 min Scan# 919
Delta R.T. -0.01 min
Lab File: VL037820.D
Acq: 8 Oct 2021 6:54

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.7	51.8	77.8





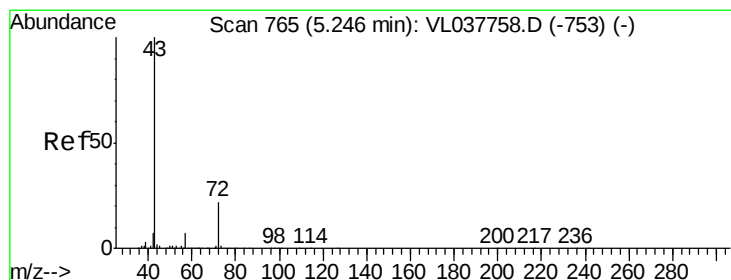
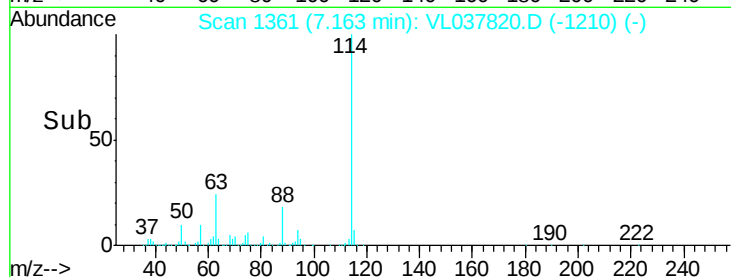
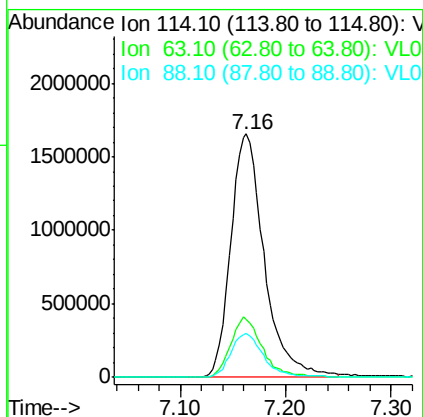
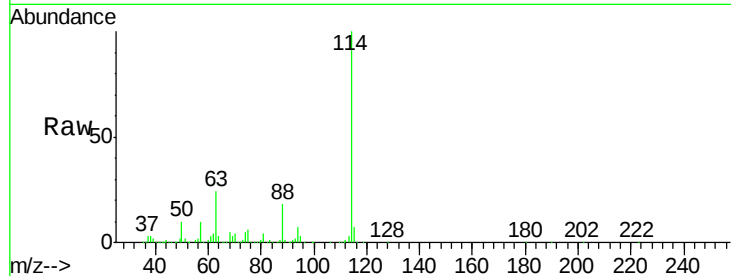
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.01 min
 Lab File: VL037820.D
 Acq: 8 Oct 2021 6:54

Instrument :
 MSVOA_L
 ClientSampled :
 C0P12

Tgt Ion: 114 Resp: 3648270
 Ion Ratio Lower Upper
 114 100
 63 23.9 19.4 29.2
 88 17.8 14.4 21.6

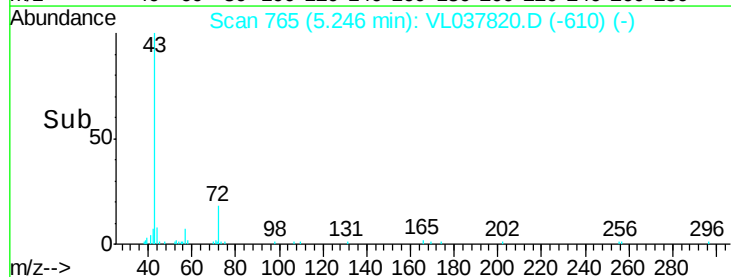
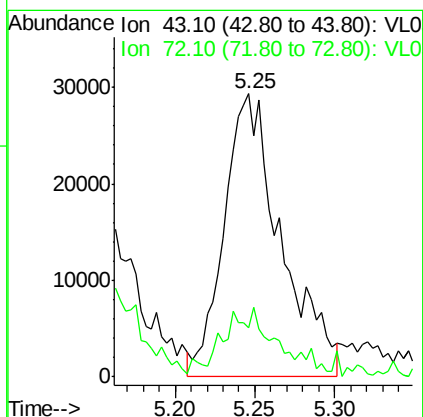
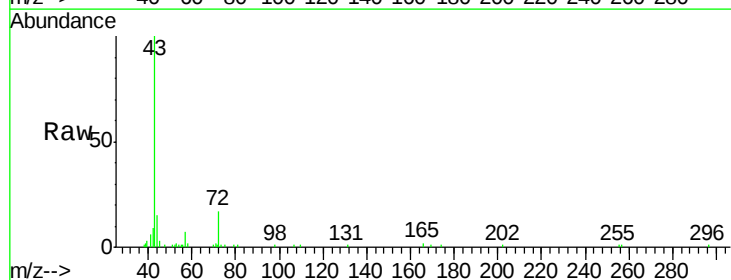
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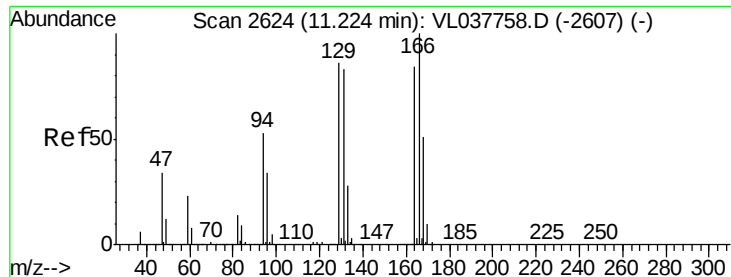
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#34
 2-Butanone
 Concen: 0.494 ppbv m
 RT: 5.25 min Scan# 765
 Delta R.T. -0.00 min
 Lab File: VL037820.D
 Acq: 8 Oct 2021 6:54

Tgt Ion: 43 Resp: 72778
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.2 27.2#





#52

Tetrachloroethene

Concen: 1.238 ppbv

RT: 11.20 min Scan# 2618

Delta R.T. -0.02 min

Lab File: VL037820.D

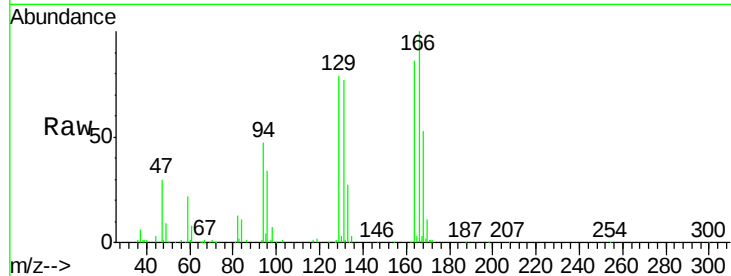
Acq: 8 Oct 2021 6:54

Instrument :

MSVOA_L

ClientSampleId :

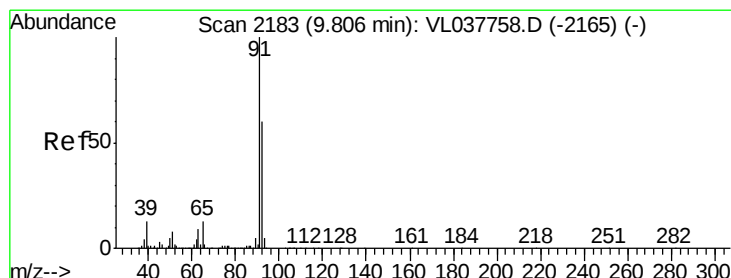
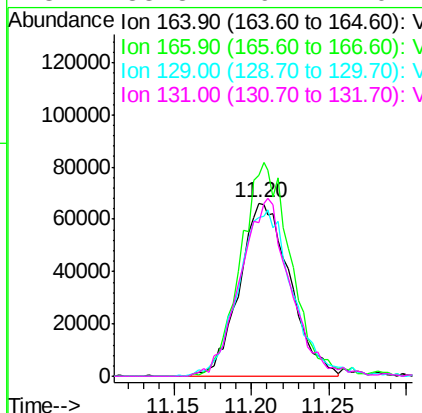
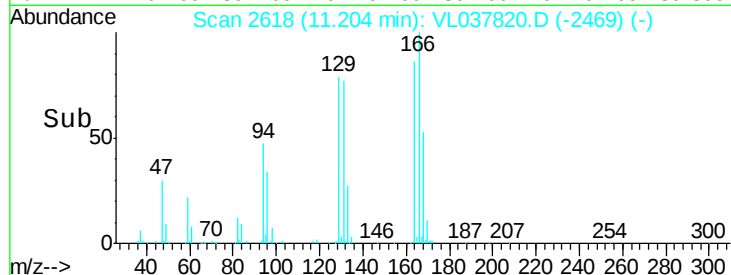
C0P12



Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
166	115.8	95.4	143.2	
129	91.1	82.2	123.4	
131	88.8	79.4	119.2	

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#53

Toluene

Concen: 0.275 ppbv m

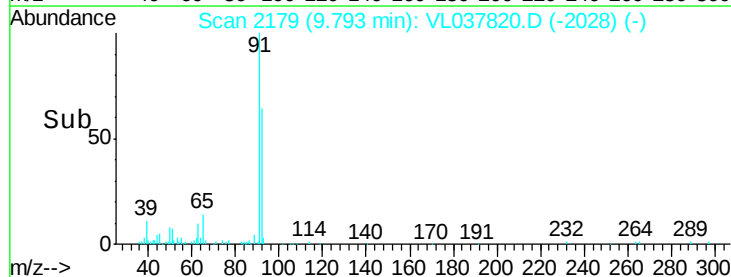
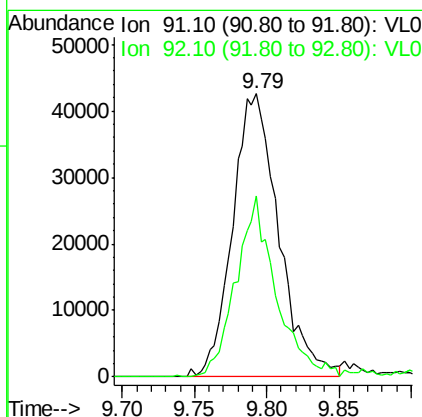
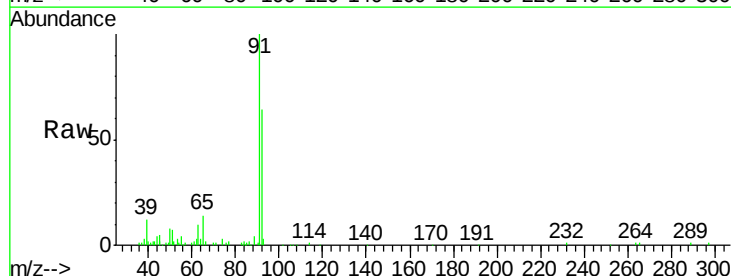
RT: 9.79 min Scan# 2179

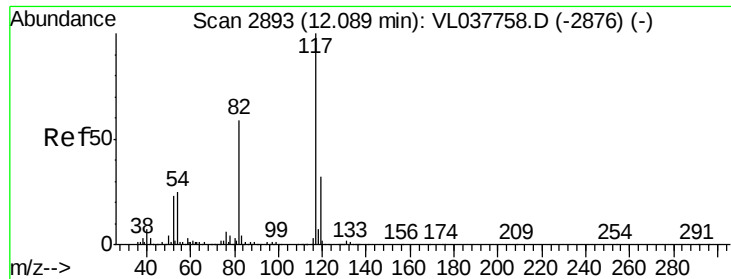
Delta R.T. -0.01 min

Lab File: VL037820.D

Acq: 8 Oct 2021 6:54

Tgt Ion	Ratio	Resp	Lower	Upper
91	100			
92	57.6	48.4	72.6	





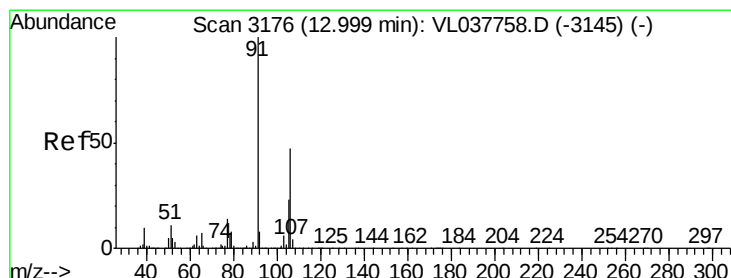
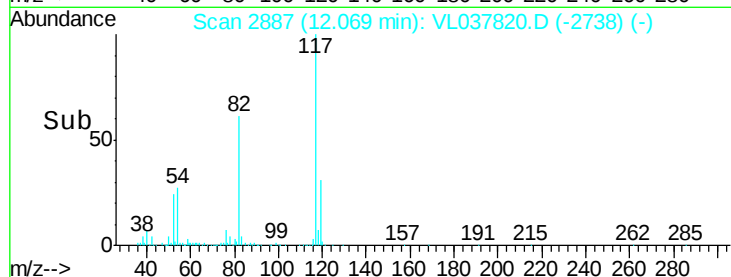
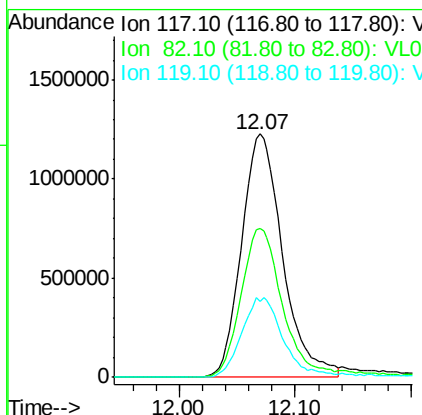
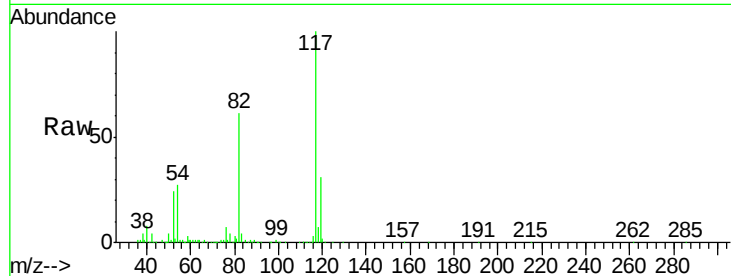
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2887
Delta R.T. -0.02 min
Lab File: VL037820.D
Acq: 8 Oct 2021 6:54

Instrument :
MSVOA_L
ClientSampled :
C0P12

Tgt Ion: 117 Resp: 3026261
Ion Ratio Lower Upper
117 100
82 64.7 52.2 78.2
119 34.9 26.0 39.0

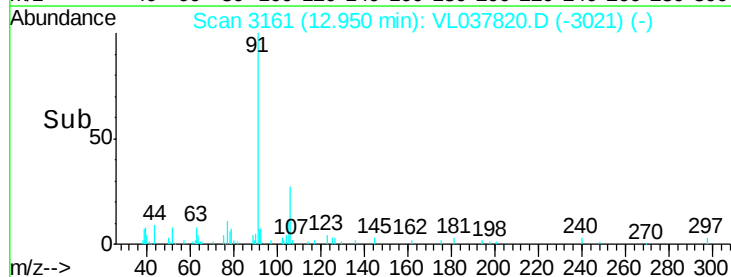
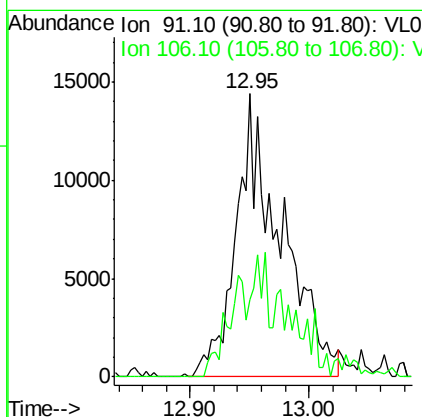
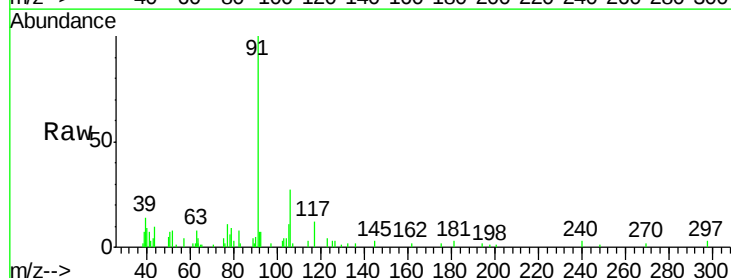
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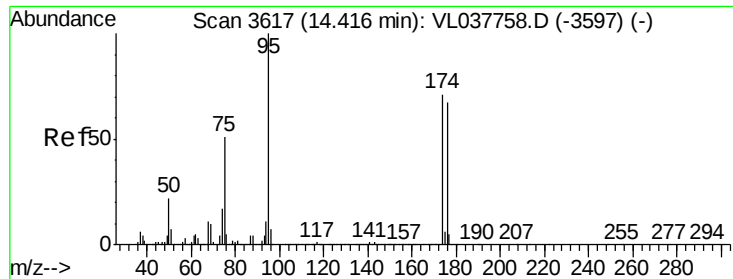
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#59
m/p-Xylene
Concen: 0.107 ppbv m
RT: 12.95 min Scan# 3161
Delta R.T. -0.05 min
Lab File: VL037820.D
Acq: 8 Oct 2021 6:54

Tgt Ion: 91 Resp: 37333
Ion Ratio Lower Upper
91 100
106 0.0 36.7 55.1#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.279 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T. -0.02 min
 Lab File: VL037820.D
 Acq: 8 Oct 2021 6:54

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P12

Tgt Ion: 95 Resp: 2175343
 Ion Ratio Lower Upper
 95 100
 174 75.3 57.8 86.6
 175 5.3 4.7 7.1

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