

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037786.D
 Acq On : 5 Oct 2021 23:12
 Operator : SY/AP
 Sample : M4012-13
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P19

Manual Integrations
 APPROVED

MMDadoda
 10/11/2021 7:36:36 PM

Quant Time: Oct 06 06:23:23 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Oct 0
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1213746	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3581202	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3115727	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.39	95	2251927	10.34	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	27659m	0.143	ppbv	
3) Chlorodifluoromethane	2.98	51	29977	0.129	ppbv	99
4) Chloromethane	3.13	50	11062m	0.130	ppbv	
9) Propene	3.01	41	25149m	0.293	ppbv	
11) Trichlorofluoromethane	3.93	101	39758m	0.230	ppbv	
13) Ethanol	3.60	45	50695m	7.224	ppbv	
15) Acetone	3.83	43	1942709	17.830	ppbv	99
17) tert-Butyl alcohol	4.29	59	59047m	0.526	ppbv	
20) Methylene Chloride	4.33	84	43365	0.788	ppbv	95
26) Hexane	5.66	57	49790m	0.331	ppbv	
29) Chloroform	5.73	83	106671	0.496	ppbv	88
32) 1,1,1-Trichloroethane	6.48	97	13378m	0.066	ppbv	
34) 2-Butanone	5.22	43	189853m	1.313	ppbv	
36) Benzene	6.86	78	30168m	0.099	ppbv	
38) Trichloroethene	7.81	130	11320m	0.094	ppbv	
41) Tetrahydrofuran	6.04	42	56601	0.800	ppbv	98
52) Tetrachloroethene	11.20	164	7057035	59.300	ppbv	96
53) Toluene	9.78	91	68336	0.202	ppbv	94
58) Ethyl Benzene	12.68	91	75959m	0.182	ppbv	
59) m/p-Xylene	12.94	91	113865m	0.317	ppbv	
60) o-Xylene	13.66	91	52497m	0.153	ppbv	
74) 1,2,4-Trimethylbenzene	16.73	105	109222m	0.293	ppbv	
79) Naphthalene	22.15	128	41367m	0.181	ppbv	

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

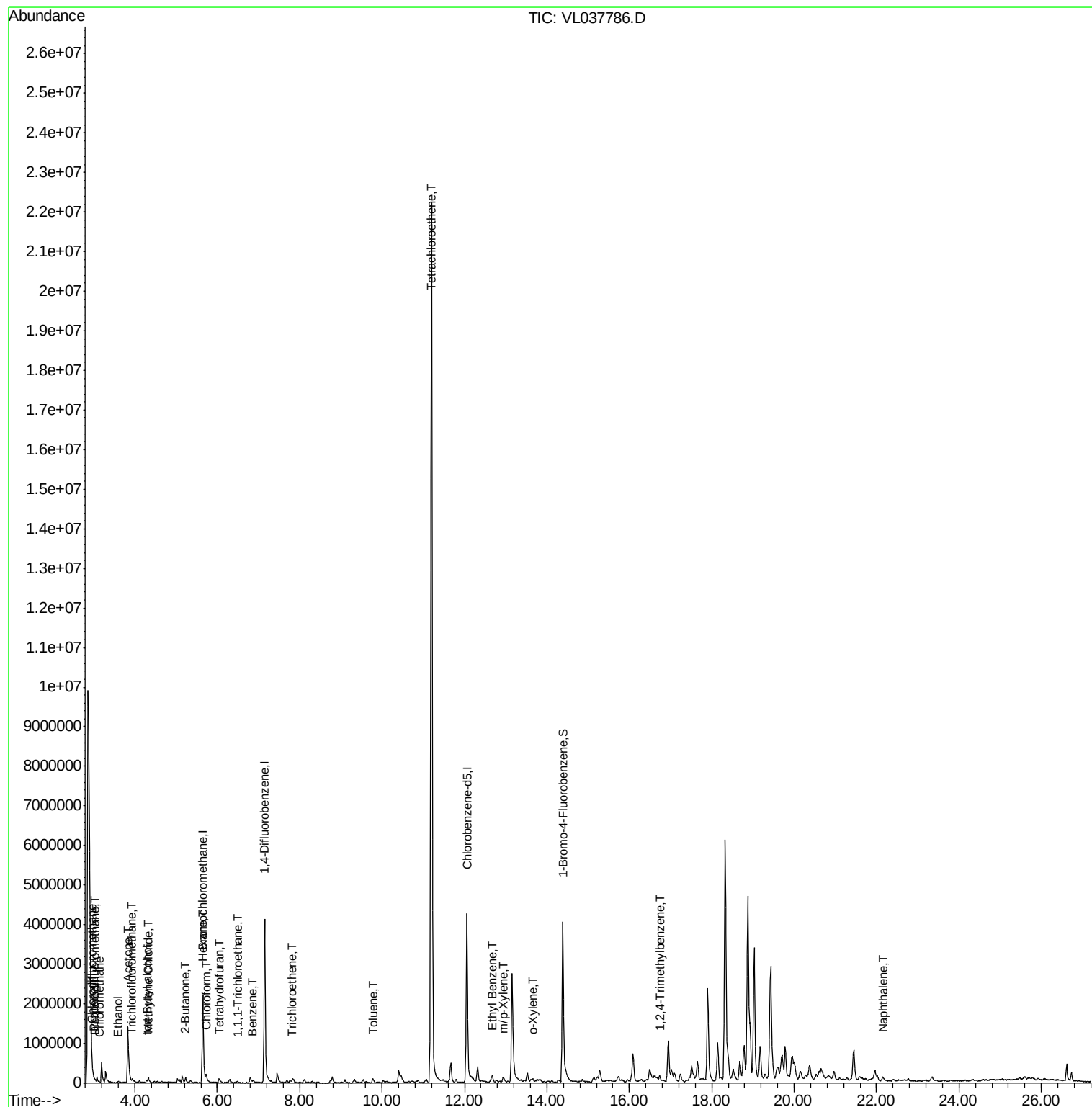
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
Data File : VL037786.D
Acq On : 5 Oct 2021 23:12
Operator : SY/AP
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Misc : 400mL/MSVOA_L
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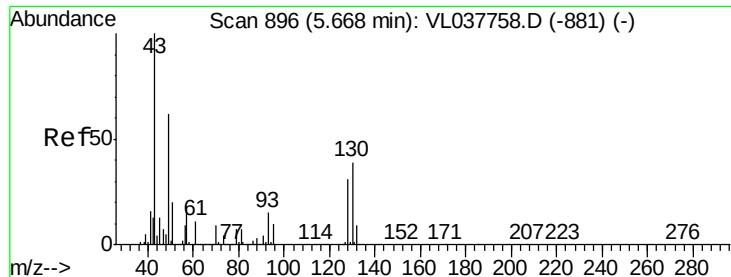
Instrument :
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Quant Time: Oct 06 06:23:23 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL037786.D

Acq: 5 Oct 2021 23:12

Instrument :

MSVOA_L

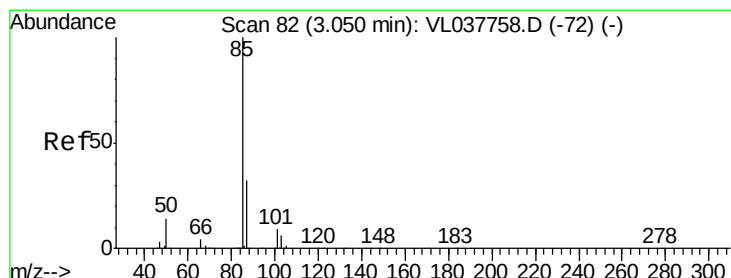
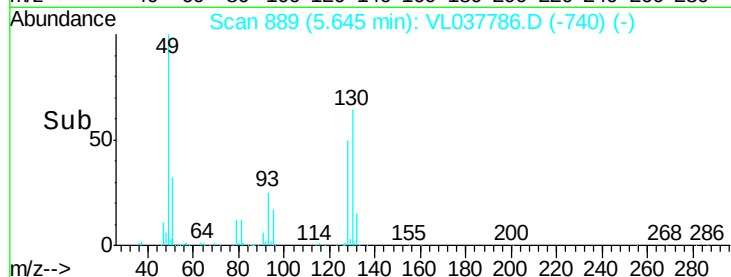
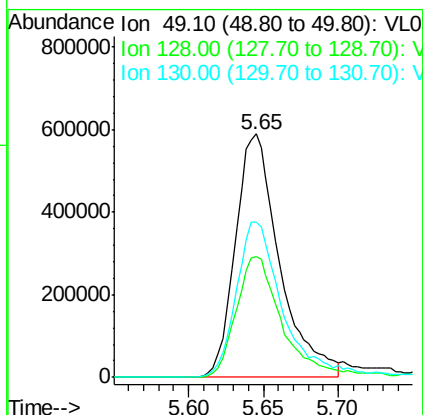
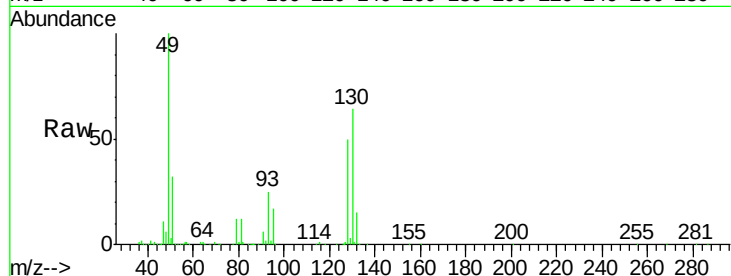
ClientSampled :

C0P19

Tgt Ion:	49	Resp:	1213746
Ion	Ratio	Lower	Upper
49	100		
128	53.5	27.1	81.3
130	69.8	33.2	99.6

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#2

Dichlorodifluoromethane

Concen: 0.143 ppbv m

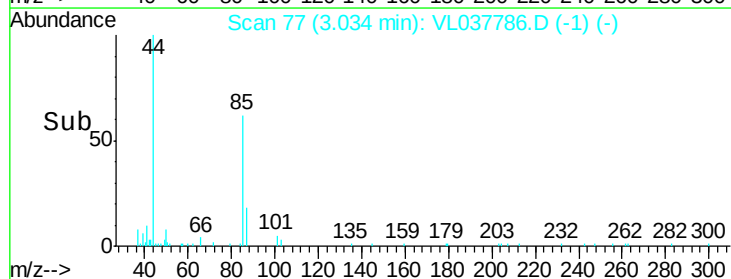
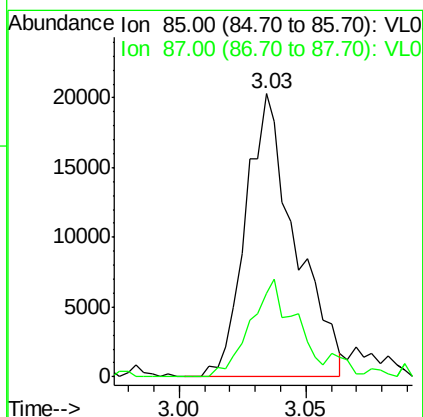
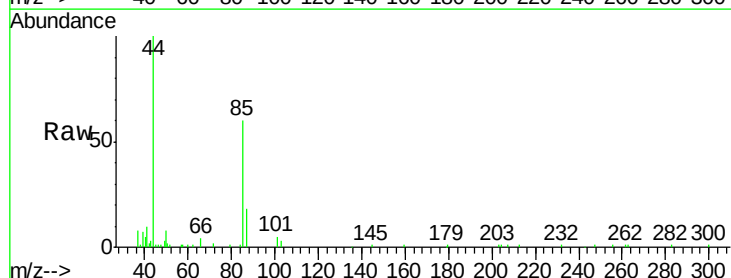
RT: 3.03 min Scan# 77

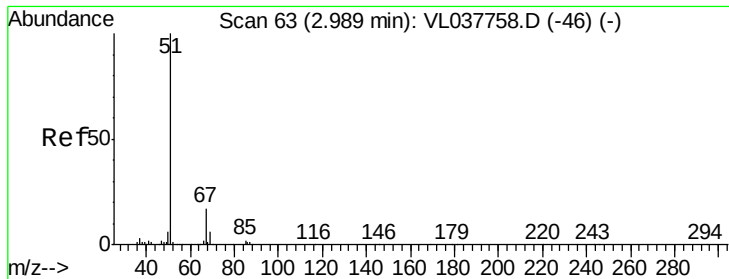
Delta R.T. -0.02 min

Lab File: VL037786.D

Acq: 5 Oct 2021 23:12

Tgt Ion:	85	Resp:	27659
Ion	Ratio	Lower	Upper
85	100		
87	29.4	25.7	38.5





#3

Chlorodifluoromethane

Concen: 0.129 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL037786.D

Acq: 5 Oct 2021 23:12

Instrument :

MSVOA_L

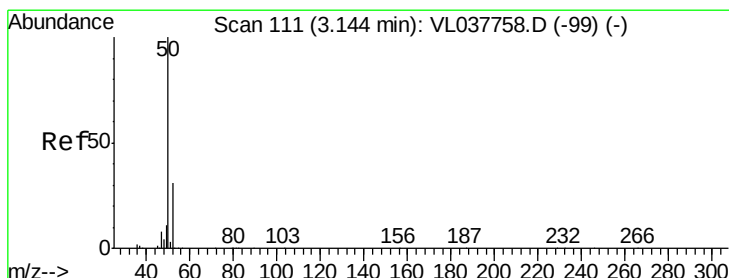
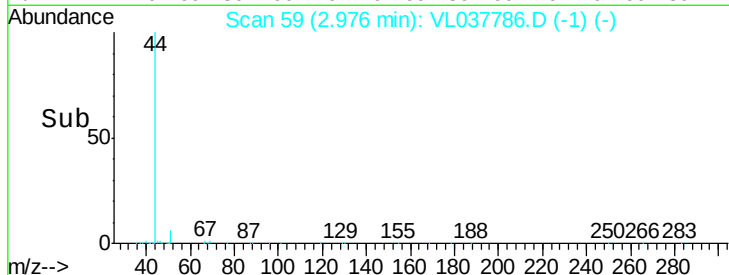
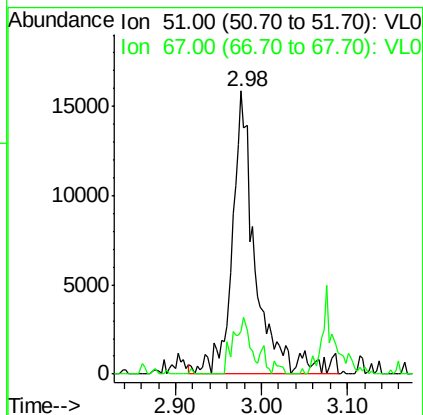
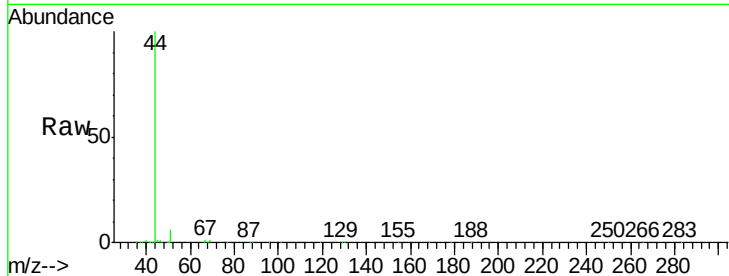
ClientSampleId :

C0P19

Tgt Ion	Ratio	Lower	Upper
51	100		
67	17.5	13.5	20.3

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#4

Chloromethane

Concen: 0.130 ppbv m

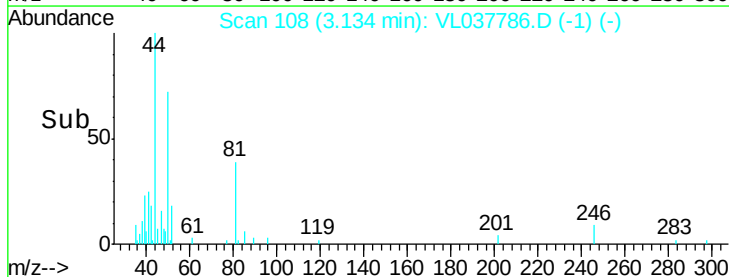
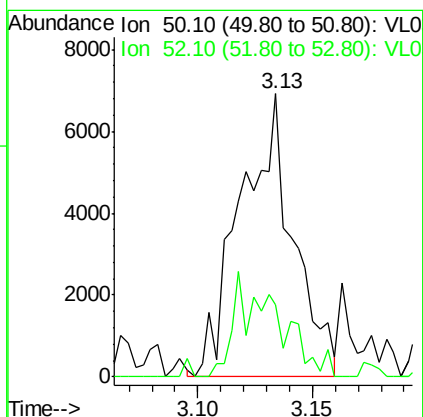
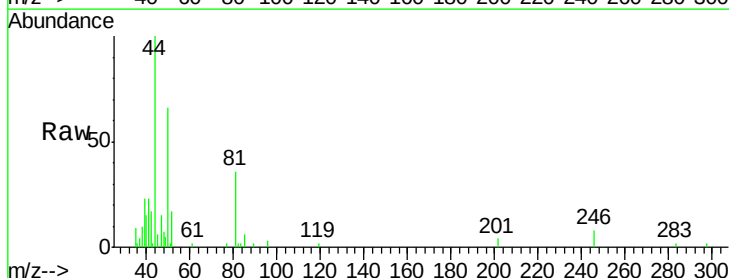
RT: 3.13 min Scan# 108

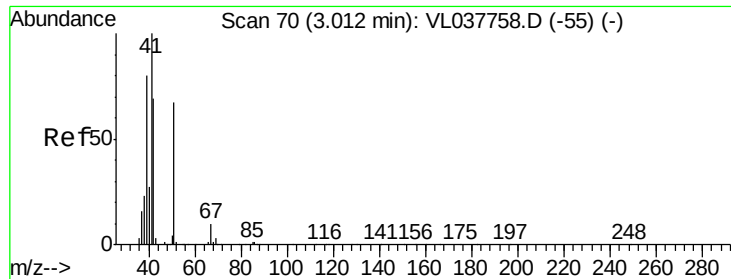
Delta R.T. -0.01 min

Lab File: VL037786.D

Acq: 5 Oct 2021 23:12

Tgt Ion	Ratio	Lower	Upper
50	100		
52	25.6	24.4	36.6





#9

Propene

Concen: 0.293 ppbv m

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL037786.D

Acq: 5 Oct 2021 23:12

Instrument :

MSVOA_L

ClientSampleId :

C0P19

Tgt Ion: 41 Resp: 25149

Ion Ratio Lower Upper

41 100

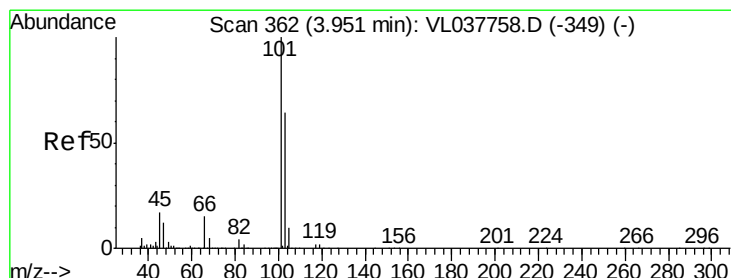
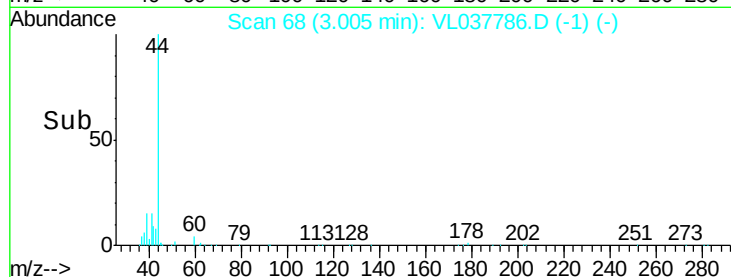
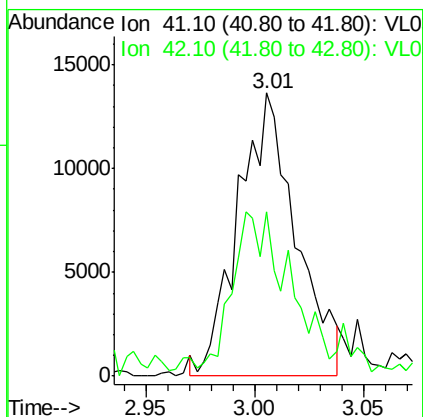
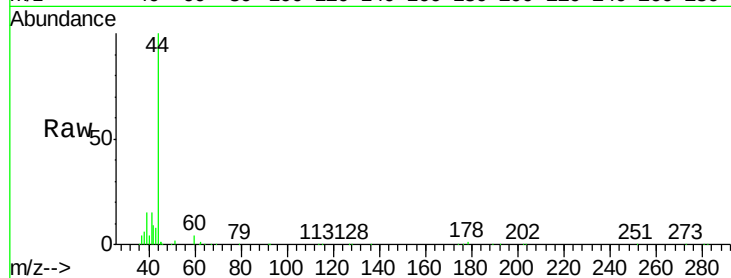
42 33.3 54.2 81.2#

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#11

Trichlorofluoromethane

Concen: 0.230 ppbv m

RT: 3.93 min Scan# 357

Delta R.T. -0.02 min

Lab File: VL037786.D

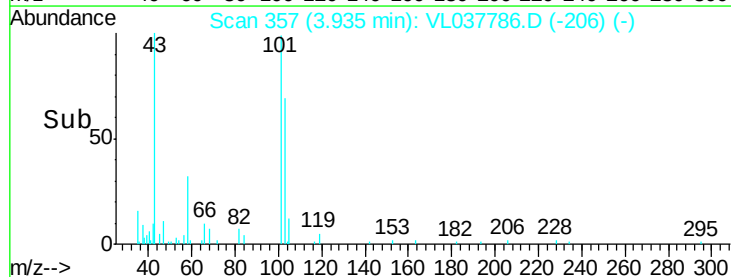
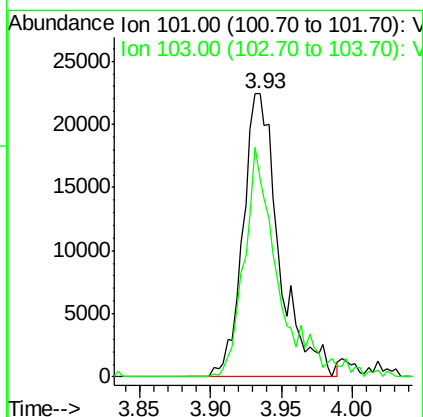
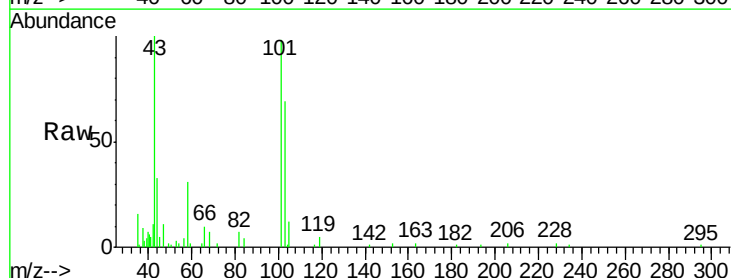
Acq: 5 Oct 2021 23:12

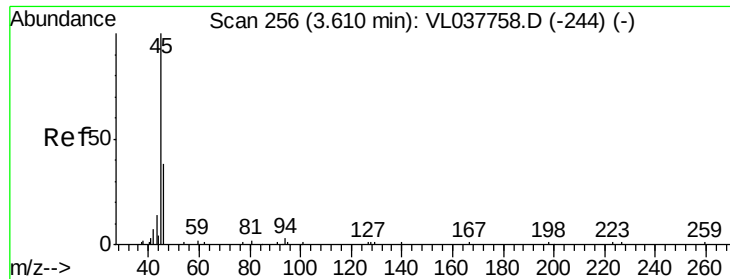
Tgt Ion: 101 Resp: 39758

Ion Ratio Lower Upper

101 100

103 69.8 51.5 77.3





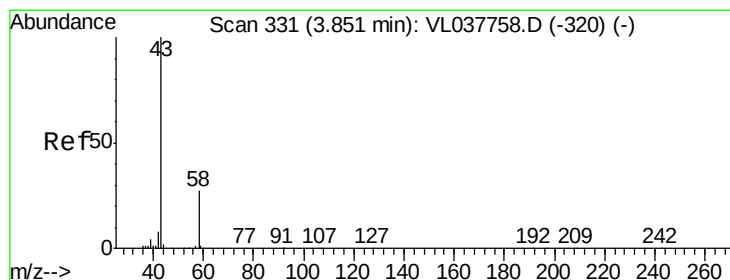
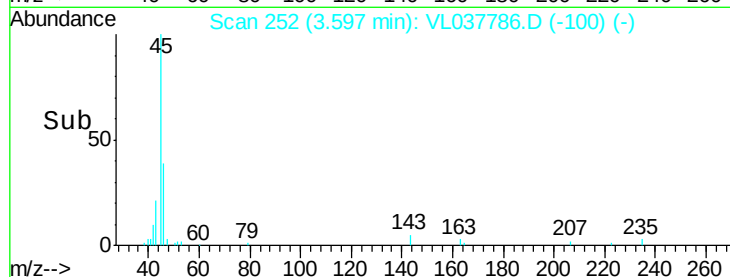
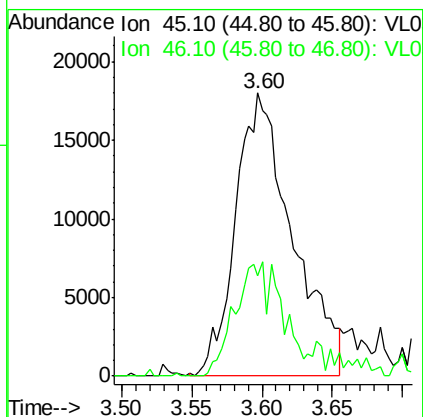
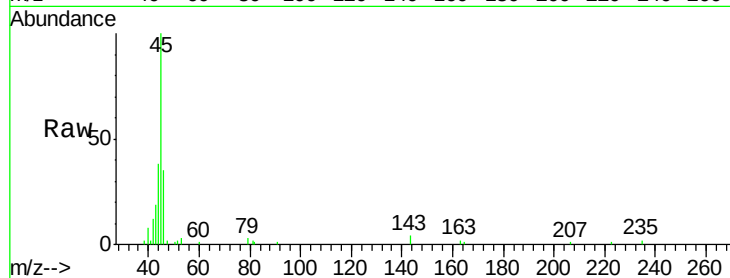
#13
Ethanol
Concen: 7.224 ppbv m
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL037786.D
Acq: 5 Oct 2021 23:12

Instrument :
MSVOA_L
ClientSampleId :
C0P19

Tgt Ion: 45 Resp: 50695
Ion Ratio Lower Upper
45 100
46 39.6 20.2 81.0

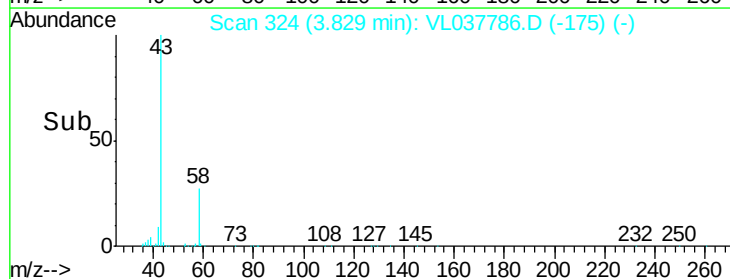
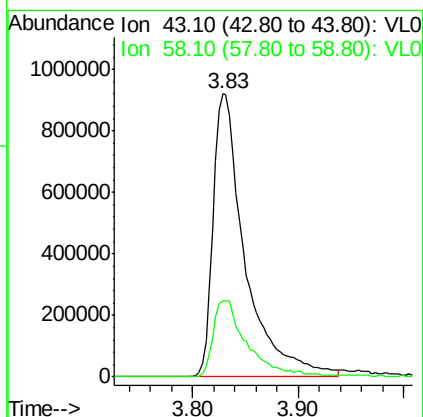
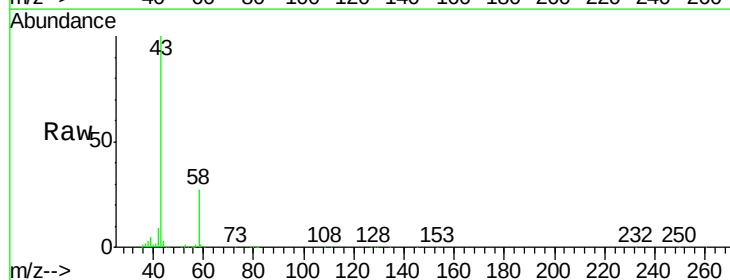
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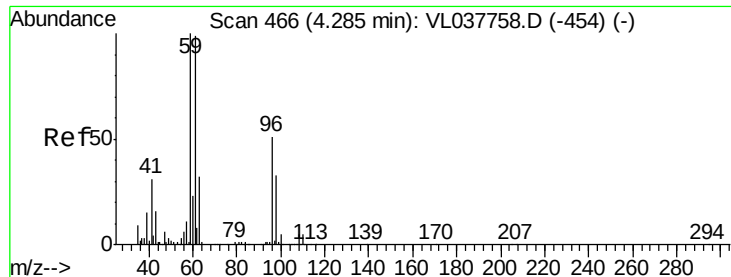
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#15
Acetone
Concen: 17.830 ppbv
RT: 3.83 min Scan# 324
Delta R.T. -0.02 min
Lab File: VL037786.D
Acq: 5 Oct 2021 23:12

Tgt Ion: 43 Resp: 1942709
Ion Ratio Lower Upper
43 100
58 29.5 23.0 34.6





#17

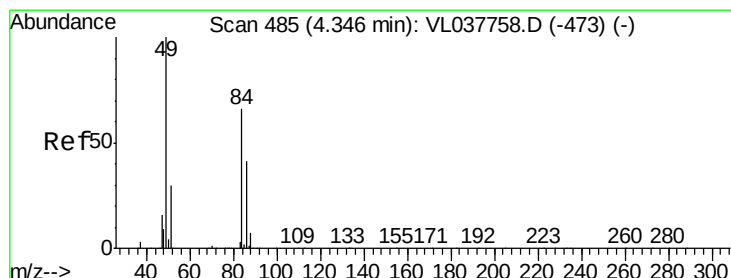
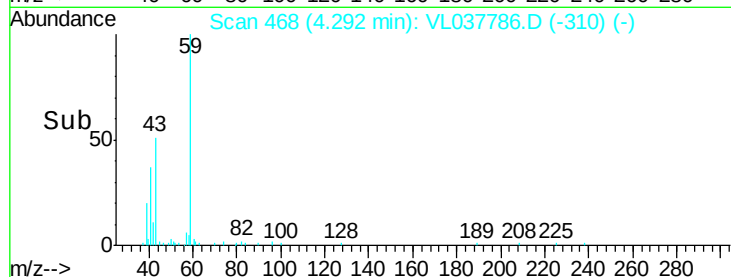
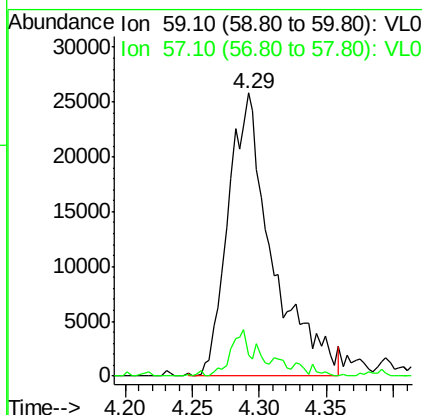
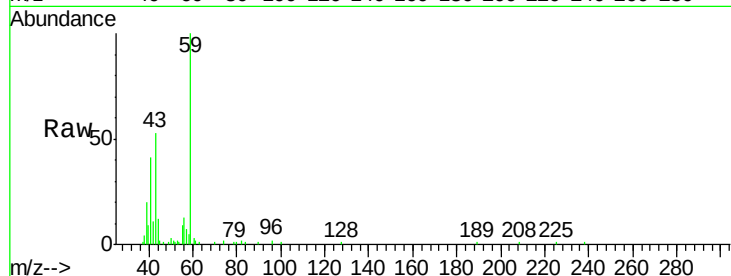
tert-Butyl alcohol
 Concen: 0.526 ppbv
 RT: 4.29 min Scan# 468
 Delta R.T. 0.01 min
 Lab File: VL037786.D
 Acq: 5 Oct 2021 23:12

Instrument :
 MSVOA_L
 ClientSampled :
 C0P19

Tgt Ion: 59 Resp: 59047
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 13.0#

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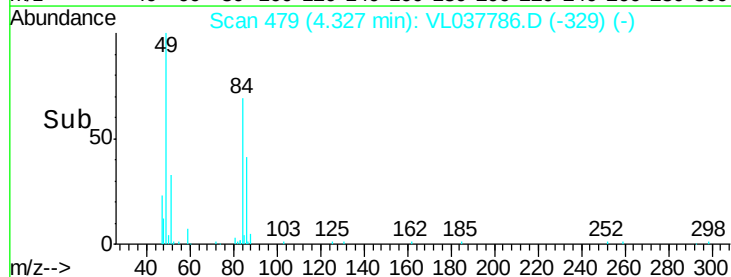
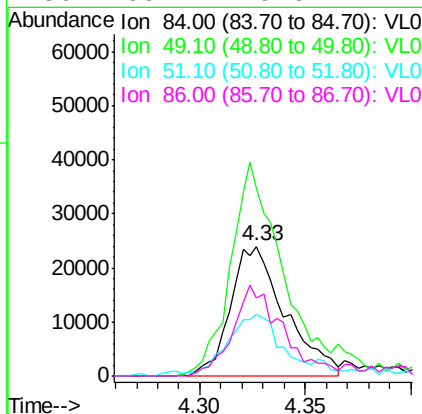
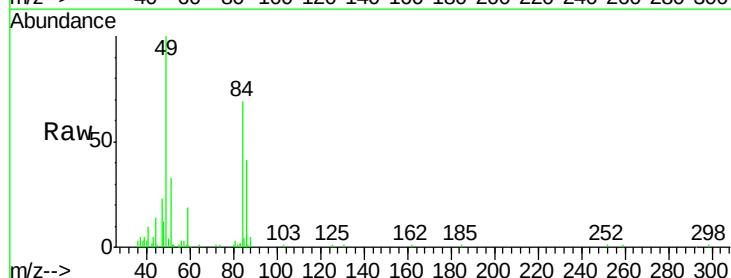
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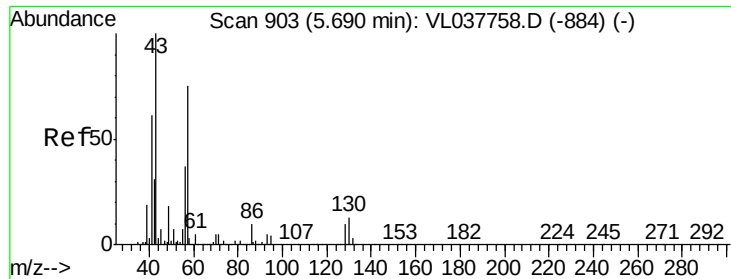


#20

Methylene Chloride
 Concen: 0.788 ppbv
 RT: 4.33 min Scan# 479
 Delta R.T. -0.02 min
 Lab File: VL037786.D
 Acq: 5 Oct 2021 23:12

Tgt Ion: 84 Resp: 43365
 Ion Ratio Lower Upper
 84 100
 49 141.8 120.7 181.1
 51 44.3 36.2 54.4
 86 60.1 49.6 74.4





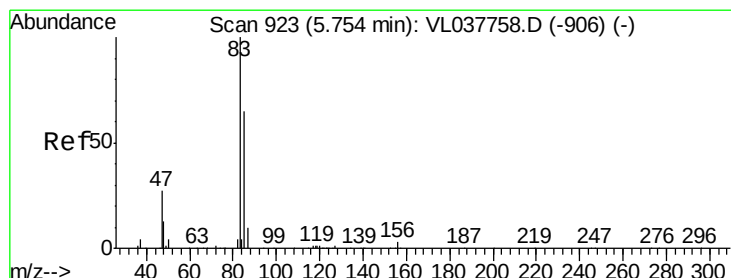
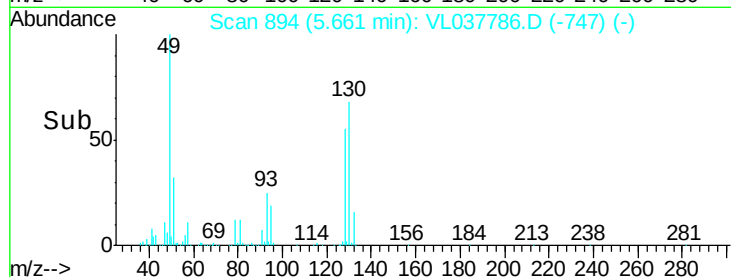
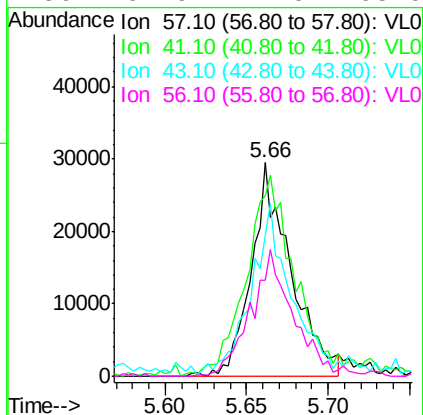
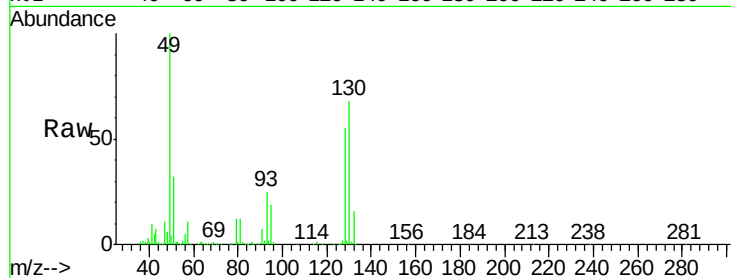
#26
Hexane
Concen: 0.331 ppbv m
RT: 5.66 min Scan# 894
Delta R.T. -0.03 min
Lab File: VL037786.D
Acq: 5 Oct 2021 23:12

Instrument :
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ClientSampled :
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Tgt Ion: 57 Resp: 49790
Ion Ratio Lower Upper
57 100
41 123.7 69.6 104.4#
43 81.1 171.4 257.0#
56 64.9 42.0 63.0#

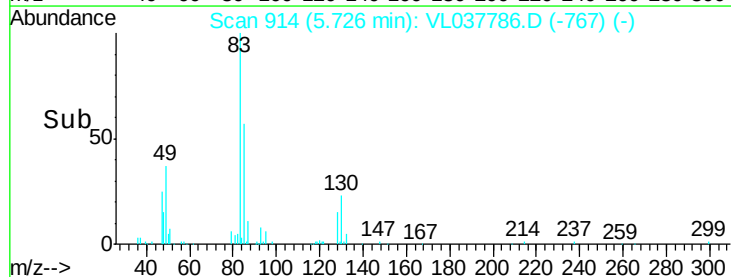
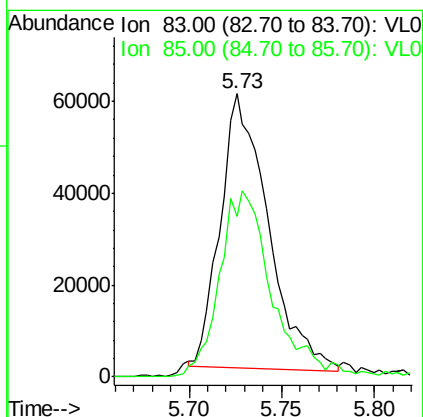
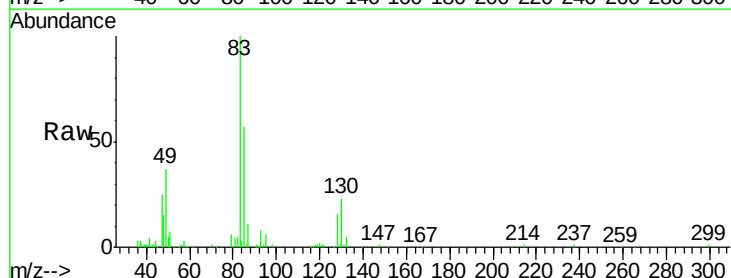
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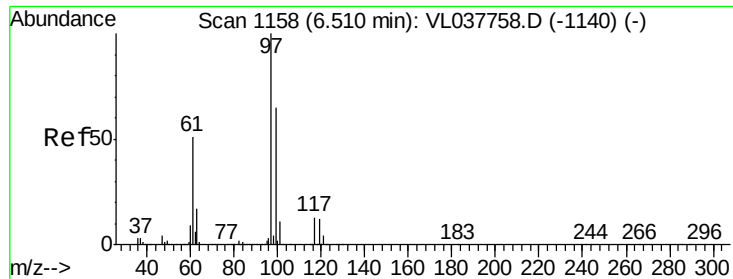
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#29
Chloroform
Concen: 0.496 ppbv
RT: 5.73 min Scan# 914
Delta R.T. -0.03 min
Lab File: VL037786.D
Acq: 5 Oct 2021 23:12

Tgt Ion: 83 Resp: 106671
Ion Ratio Lower Upper
83 100
85 55.0 51.8 77.8





#32

1,1,1-Trichloroethane

Concen: 0.066 ppbv m

RT: 6.48 min Scan# 1148

Delta R.T. -0.03 min

Lab File: VL037786.D

Acq: 5 Oct 2021 23:12

Instrument :

MSVOA_L

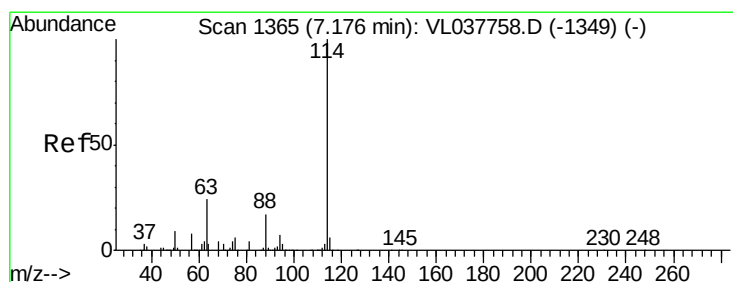
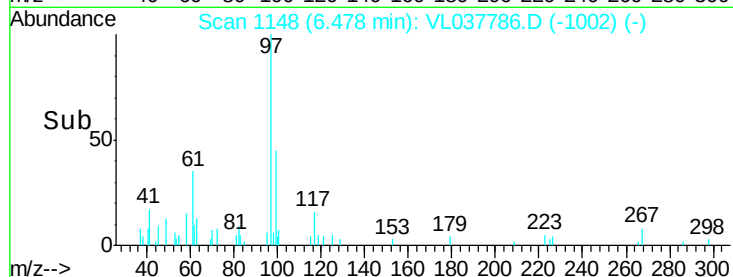
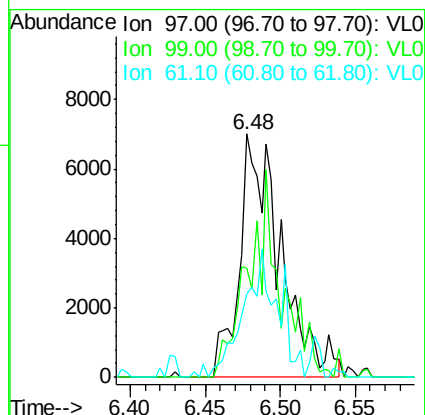
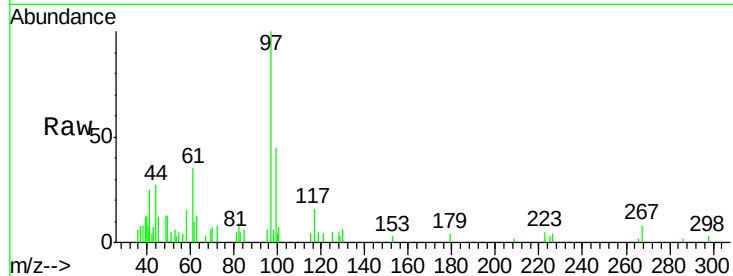
ClientSampleId :

C0P19

Tgt Ion:	97	Resp:	13378
Ion	Ratio	Lower	Upper
97	100		
99	68.8	52.6	78.8
61	44.8	40.2	60.4

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

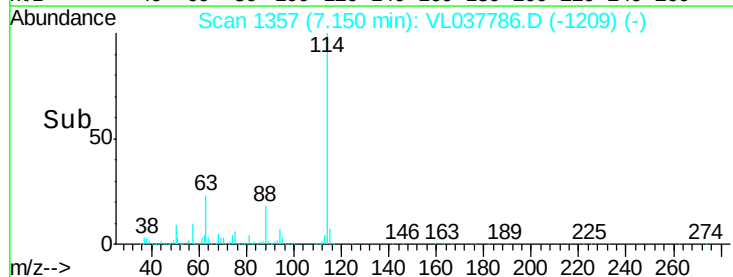
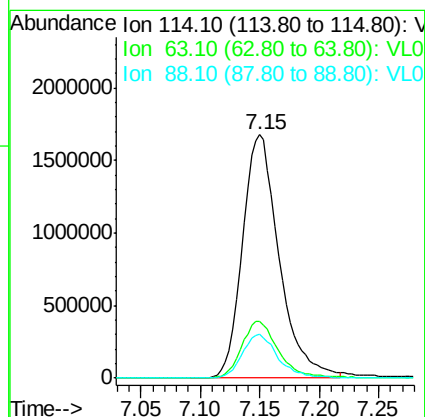
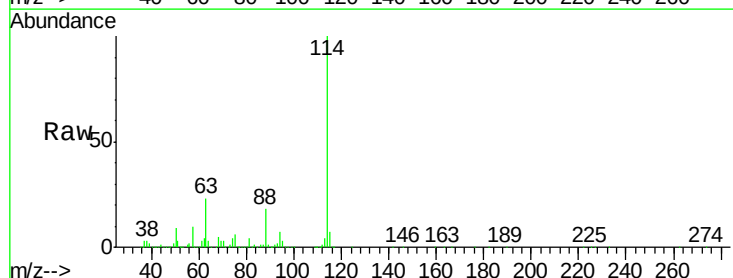
RT: 7.15 min Scan# 1357

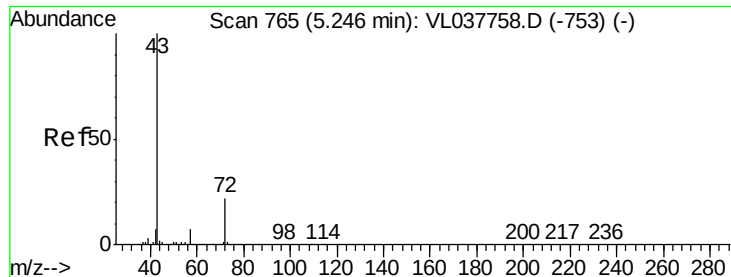
Delta R.T. -0.03 min

Lab File: VL037786.D

Acq: 5 Oct 2021 23:12

Tgt Ion:	114	Resp:	3581202
Ion	Ratio	Lower	Upper
114	100		
63	23.8	19.4	29.2
88	17.8	14.4	21.6





#34

2-Butanone

Concen: 1.313 ppbv m

RT: 5.22 min Scan# 758

Delta R.T. -0.02 min

Lab File: VL037786.D

Acq: 5 Oct 2021 23:12

Instrument :

MSVOA_L

ClientSampled :

C0P19

Tgt Ion: 43 Resp: 189853

Ion Ratio Lower Upper

43 100

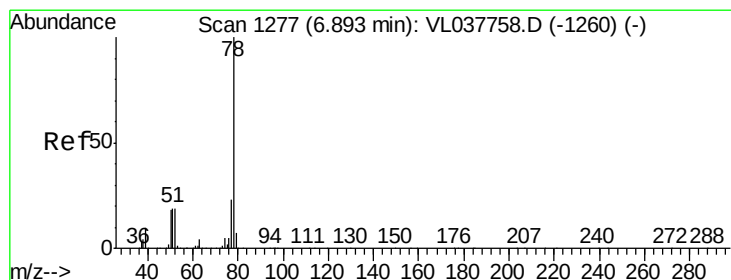
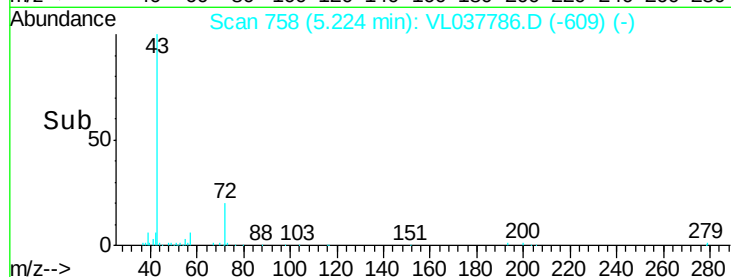
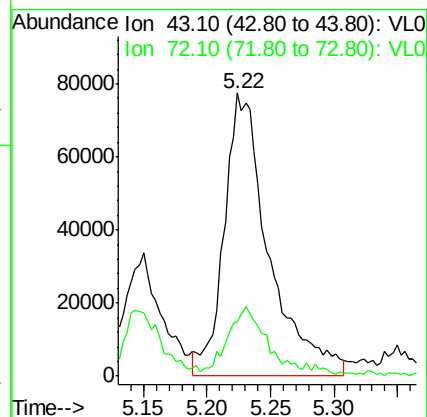
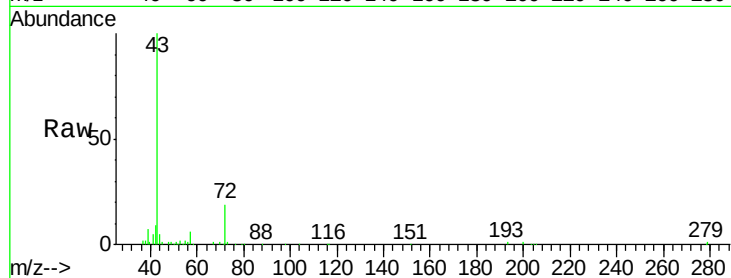
72 23.1 18.2 27.2

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#36

Benzene

Concen: 0.099 ppbv m

RT: 6.86 min Scan# 1267

Delta R.T. -0.03 min

Lab File: VL037786.D

Acq: 5 Oct 2021 23:12

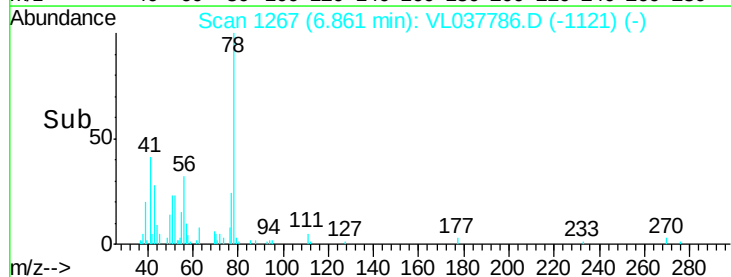
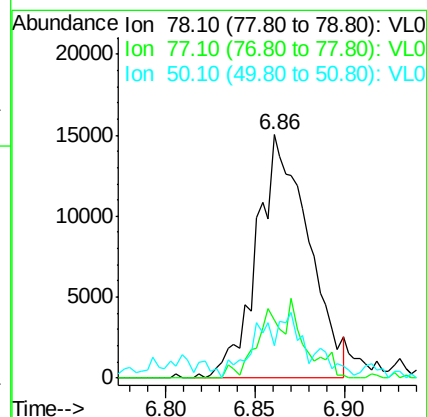
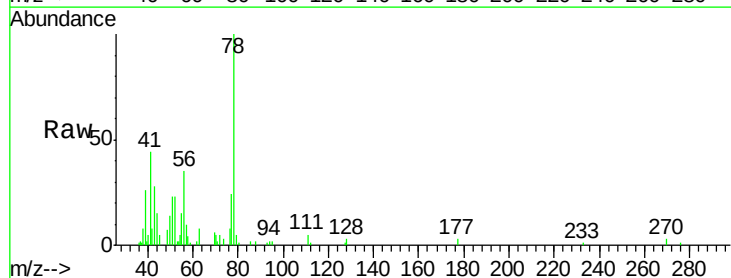
Tgt Ion: 78 Resp: 30168

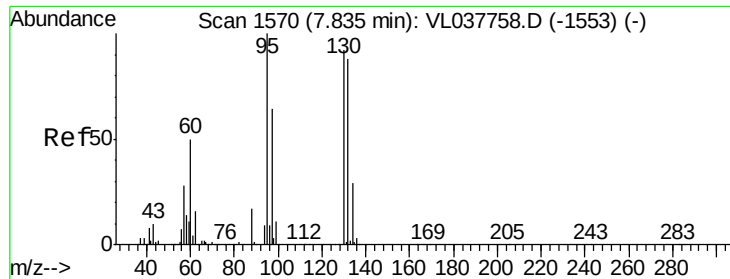
Ion Ratio Lower Upper

78 100

77 23.7 18.8 28.2

50 13.5 14.7 22.1#





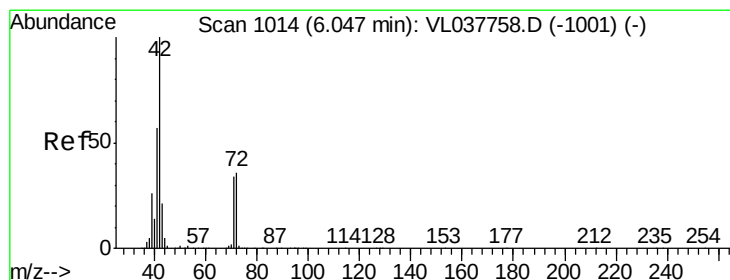
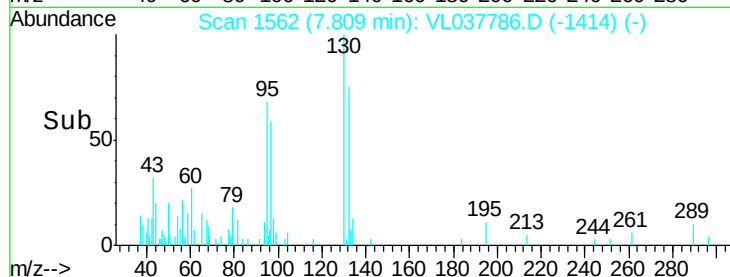
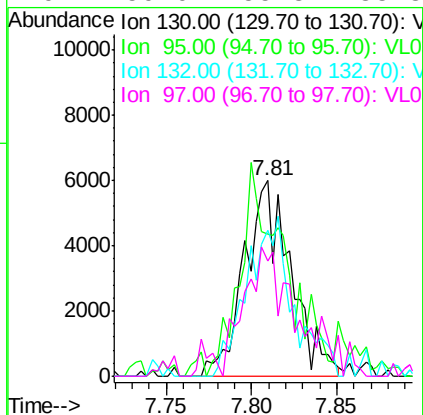
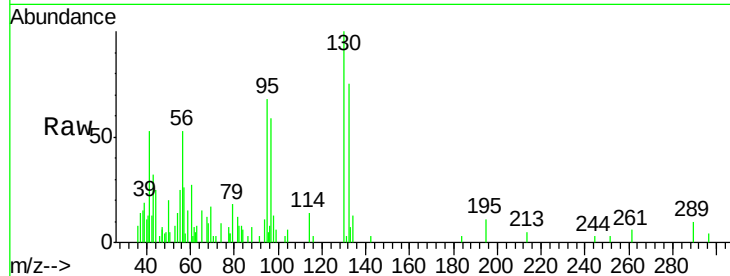
#38
 Trichloroethene
 Concen: 0.094 ppbv m
 RT: 7.81 min Scan# 1562
 Delta R.T. -0.03 min
 Lab File: VL037786.D
 Acq: 5 Oct 2021 23:12

Instrument :
 MSVOA_L
 ClientSampled :
 C0P19

Tgt Ion	Ratio	Lower	Upper
130	100		
95	67.5	87.4	131.0#
132	75.0	76.8	115.2#
97	59.0	55.8	83.8

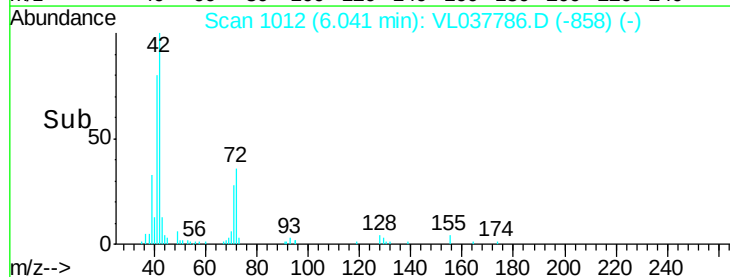
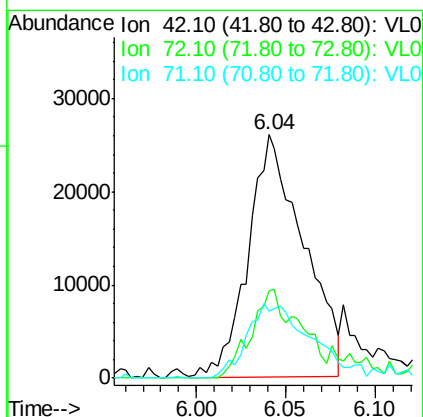
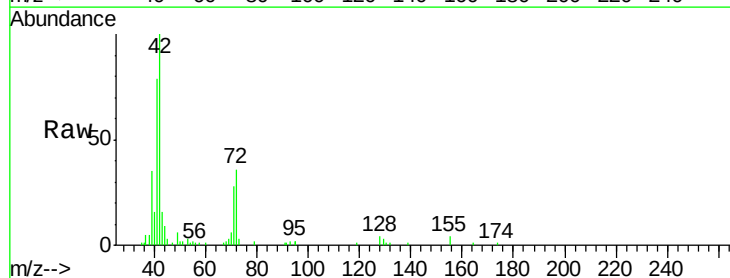
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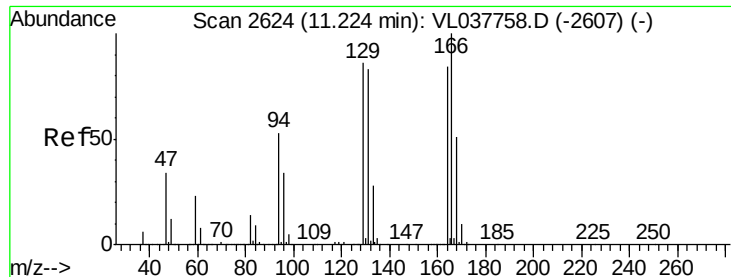
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#41
 Tetrahydrofuran
 Concen: 0.800 ppbv
 RT: 6.04 min Scan# 1012
 Delta R.T. -0.01 min
 Lab File: VL037786.D
 Acq: 5 Oct 2021 23:12

Tgt Ion	Ratio	Lower	Upper
42	100		
72	40.5	31.9	47.9
71	35.9	30.3	45.5





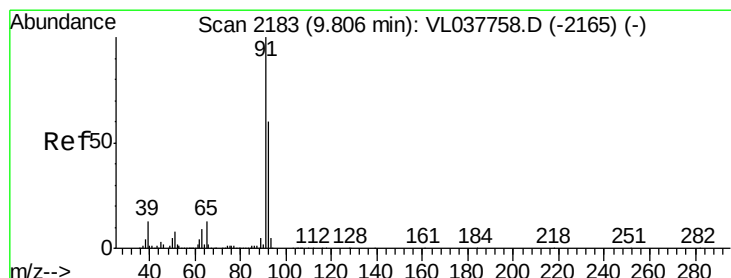
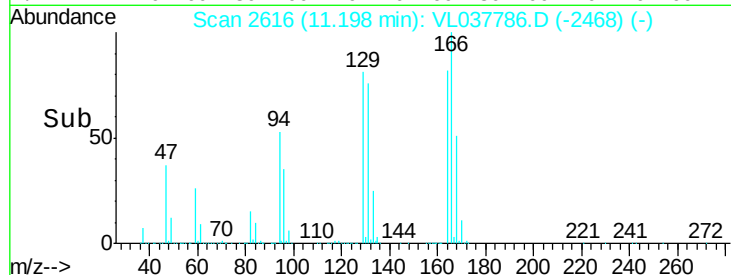
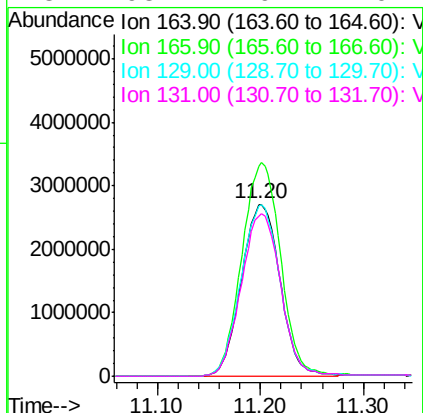
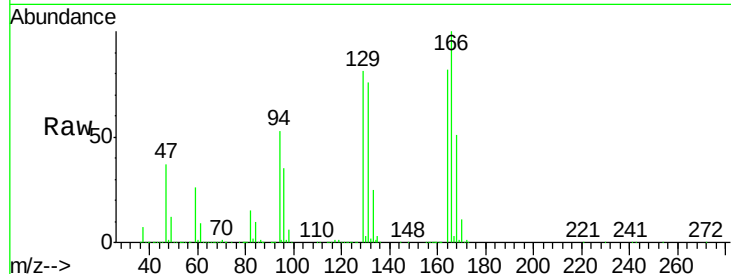
#52
Tetrachloroethene
Concen: 59.300 ppbv
RT: 11.20 min Scan# 2616
Delta R.T. -0.03 min
Lab File: VL037786.D
Acq: 5 Oct 2021 23:12

Instrument :
MSVOA_L
ClientSampleId :
C0P19

Tgt Ion:164 Resp: 7057035
Ion Ratio Lower Upper
164 100
166 122.2 95.4 143.2
129 99.4 82.2 123.4
131 93.2 79.4 119.2

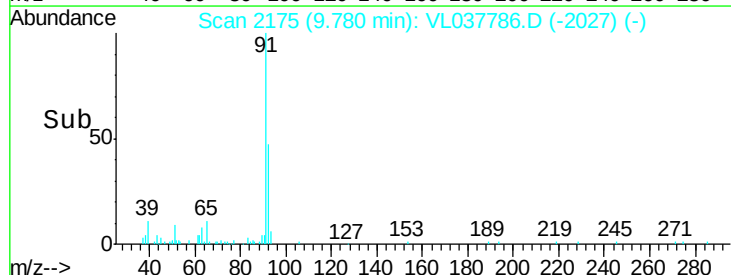
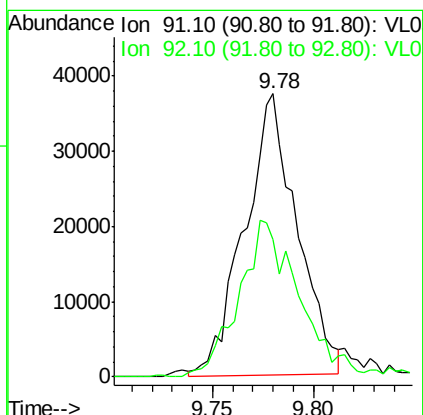
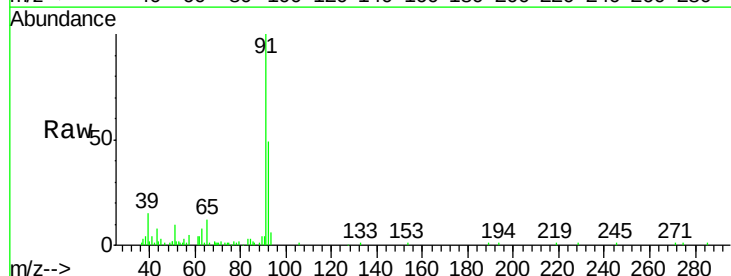
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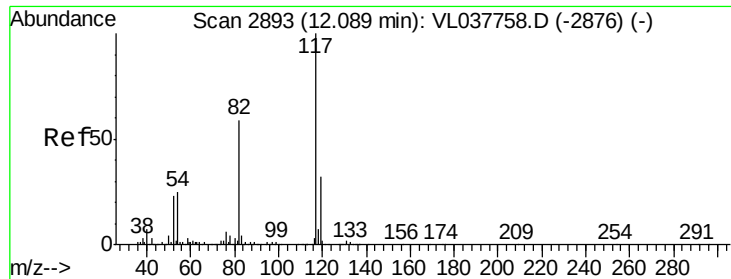
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#53
Toluene
Concen: 0.202 ppbv
RT: 9.78 min Scan# 2175
Delta R.T. -0.03 min
Lab File: VL037786.D
Acq: 5 Oct 2021 23:12

Tgt Ion: 91 Resp: 68336
Ion Ratio Lower Upper
91 100
92 64.8 48.4 72.6





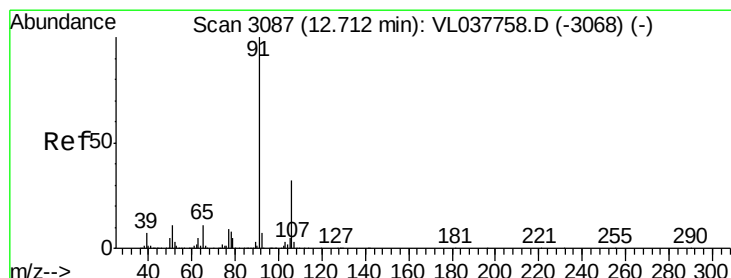
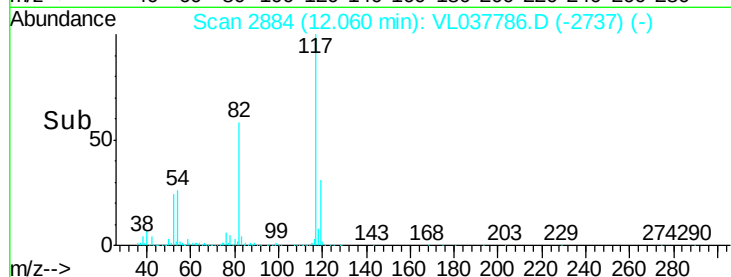
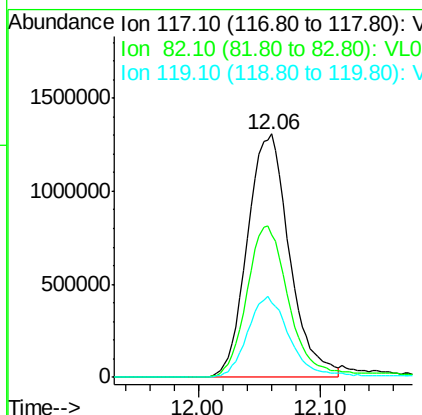
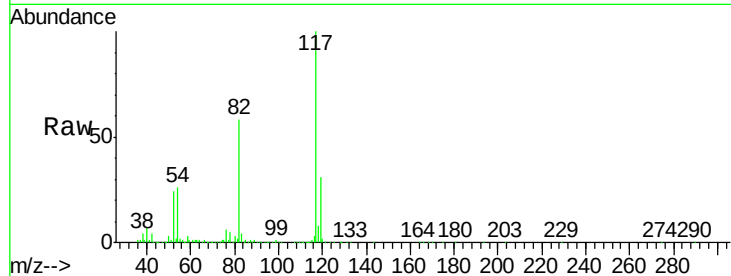
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.03 min
Lab File: VL037786.D
Acq: 5 Oct 2021 23:12

Instrument :
MSVOA_L
ClientSampleId :
C0P19

Tgt Ion: 117 Resp: 3115727
Ion Ratio Lower Upper
117 100
82 65.4 52.2 78.2
119 34.4 26.0 39.0

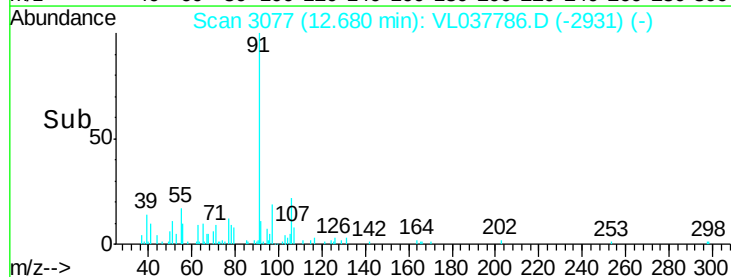
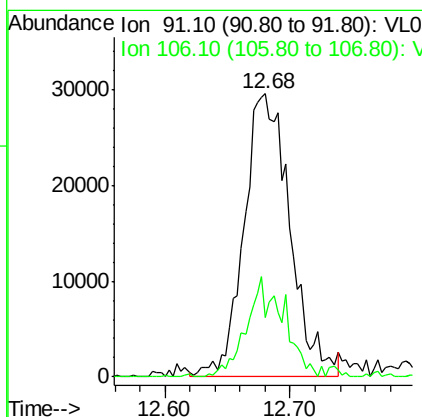
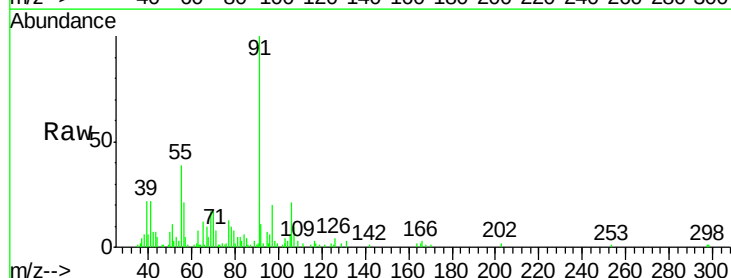
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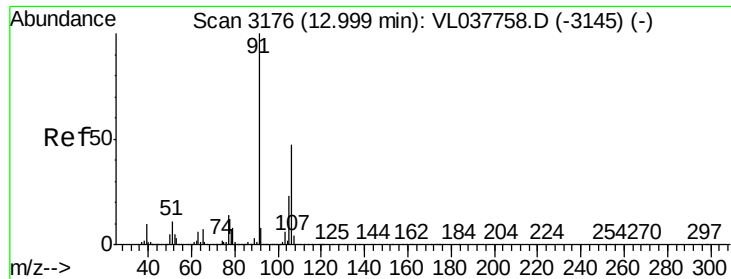
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#58
Ethyl Benzene
Concen: 0.182 ppbv m
RT: 12.68 min Scan# 3077
Delta R.T. -0.03 min
Lab File: VL037786.D
Acq: 5 Oct 2021 23:12

Tgt Ion: 91 Resp: 75959
Ion Ratio Lower Upper
91 100
106 21.2 25.3 37.9#





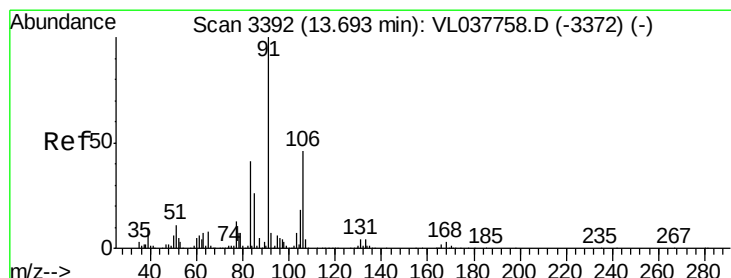
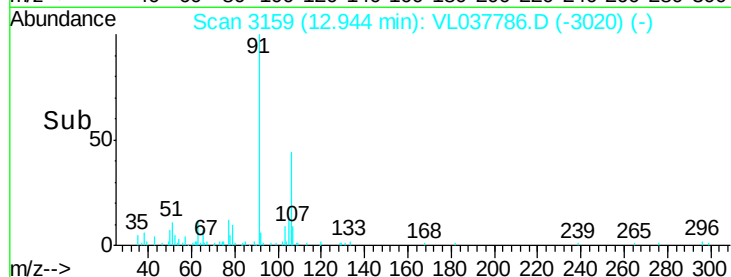
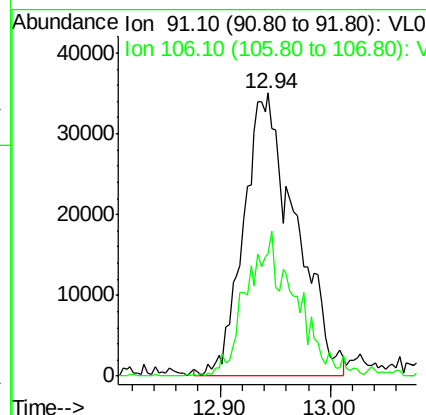
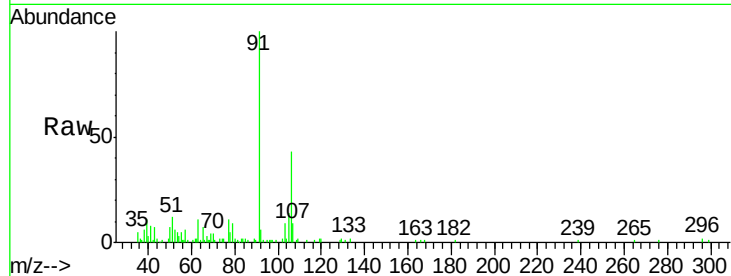
#59
m/p-Xylene
Concen: 0.317 ppbv m
RT: 12.94 min Scan# 3159
Delta R.T. -0.05 min
Lab File: VL037786.D
Acq: 5 Oct 2021 23:12

Instrument :
MSVOA_L
ClientSampleId :
C0P19

Tgt Ion: 91 Resp: 113865
Ion Ratio Lower Upper
91 100
106 0.0 36.7 55.1#

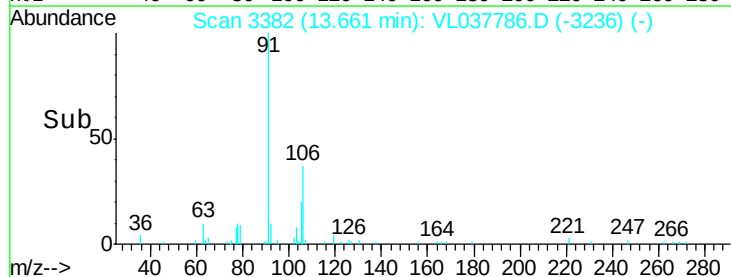
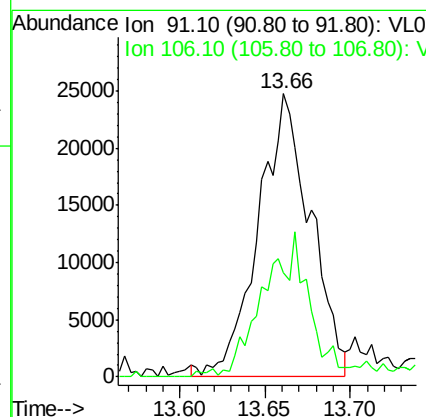
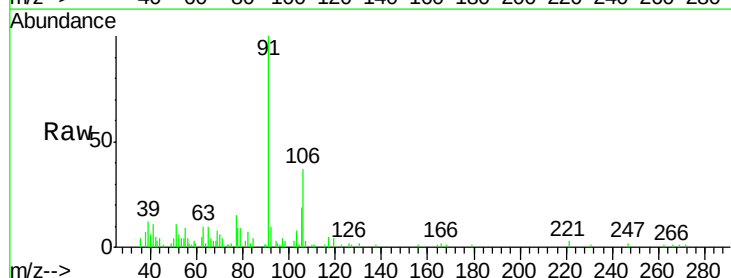
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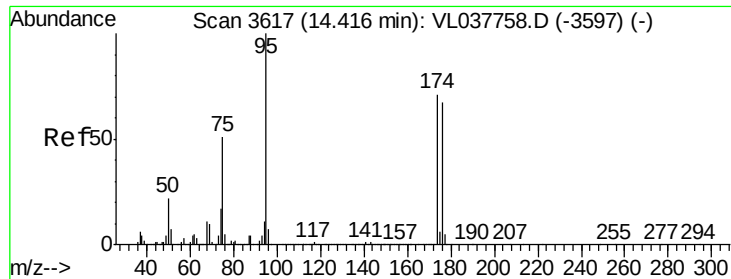
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#60
o-Xylene
Concen: 0.153 ppbv m
RT: 13.66 min Scan# 3382
Delta R.T. -0.03 min
Lab File: VL037786.D
Acq: 5 Oct 2021 23:12

Tgt Ion: 91 Resp: 52497
Ion Ratio Lower Upper
91 100
106 49.0 23.5 70.5





#68

1-Bromo-4-Fluorobenzene

Concen: 10.335 ppbv

RT: 14.39 min Scan# 3608

Delta R.T. -0.03 min

Lab File: VL037786.D

Acq: 5 Oct 2021 23:12

Instrument :

MSVOA_L

ClientSampled :

C0P19

Tgt Ion: 95 Resp: 2251927

Ion Ratio Lower Upper

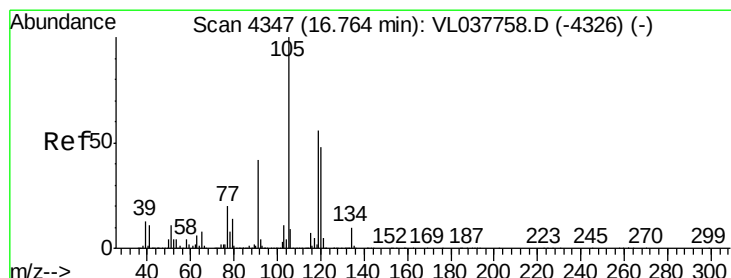
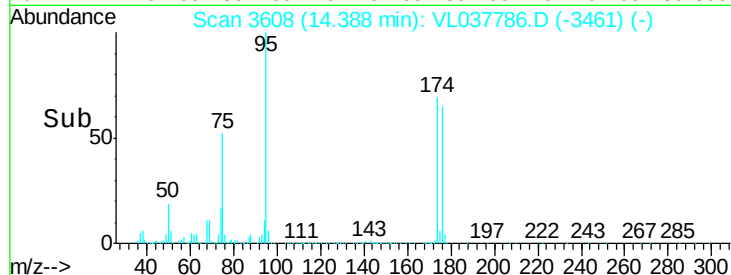
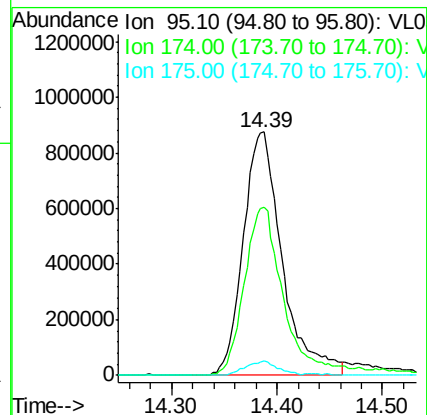
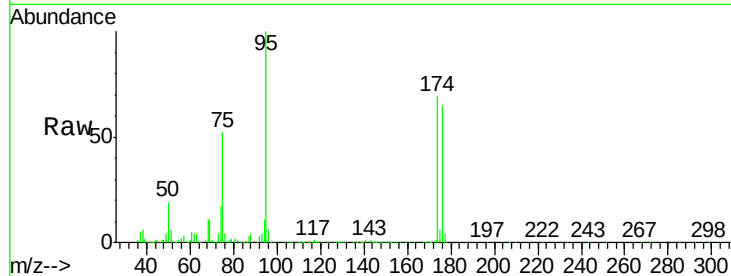
95 100

174 73.3 57.8 86.6

175 5.6 4.7 7.1

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#74

1,2,4-Trimethylbenzene

Concen: 0.293 ppbv m

RT: 16.73 min Scan# 4335

Delta R.T. -0.04 min

Lab File: VL037786.D

Acq: 5 Oct 2021 23:12

Tgt Ion: 105 Resp: 109222

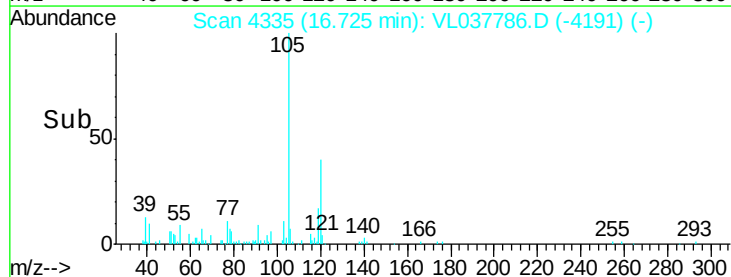
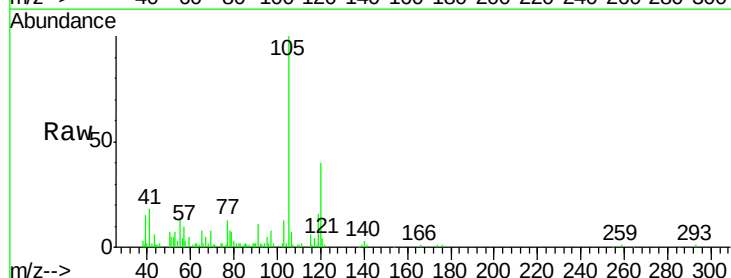
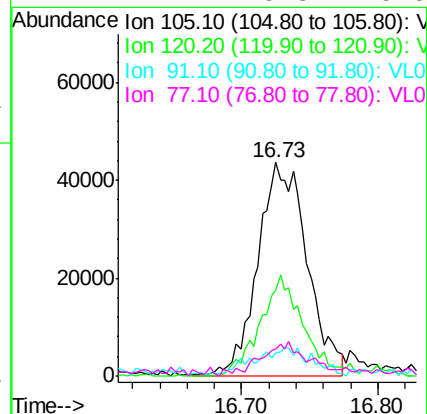
Ion Ratio Lower Upper

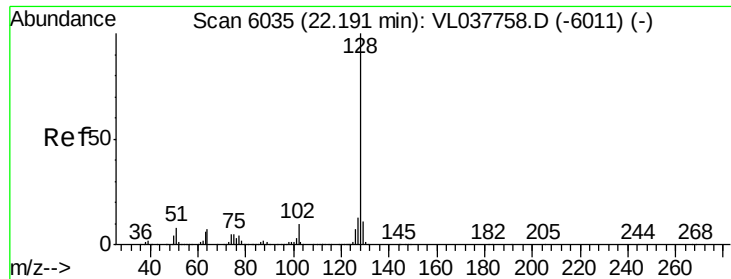
105 100

120 40.3 38.4 57.6

91 10.8 34.2 51.2#

77 12.7 15.8 23.8#





#79

Naphthalene

Concen: 0.181 ppbv m

RT: 22.15 min Scan# 6023

Delta R.T. -0.04 min

Lab File: VL037786.D

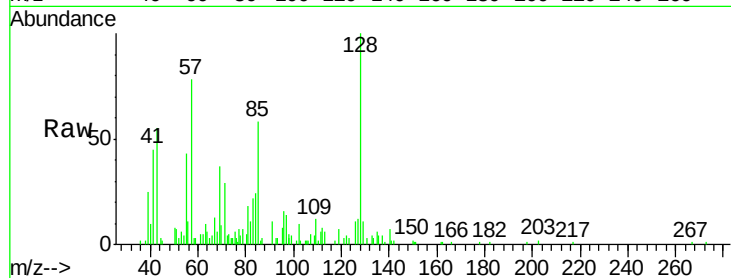
Acq: 5 Oct 2021 23:12

Instrument :

MSVOA_L

ClientSampleId :

C0P19



Tgt Ion:	128	Resp:	41367
Ion Ratio	Lower	Upper	
128	100		
127	12.2	10.1	15.1
129	11.1	9.1	13.7

Manual Integrations
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