

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111220\
 Data File : VL035919.D
 Acq On : 12 Nov 2020 18:42
 Operator : SY/AP
 Sample : L4720-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 CVS-4

Manual Integrations
 APPROVED

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 11/16/2020 2:31:55 PM

Quant Time: Nov 14 21:36:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1153785	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4083588	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3766555	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2814013	10.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	57500	0.265	ppbv	94
3) Chlorodifluoromethane	2.97	51	186531m	1.350	ppbv	
4) Chloromethane	3.14	50	39121	0.583	ppbv	97
7) Chloroethane	3.55	64	4230	0.140	ppbv #	84
9) Propene	3.02	41	72544m	1.434	ppbv	
10) Heptane	8.11	43	28391m	0.203	ppbv	
11) Trichlorofluoromethane	3.94	101	65026	0.238	ppbv	85
13) Ethanol	3.65	45	24956608m	2274.730	ppbv	
15) Acetone	3.84	43	2249322m	18.235	ppbv	
19) Isopropyl Alcohol	4.03	45	9508111	125.433	ppbv #	97
20) Methylene Chloride	4.34	84	1044998	12.034	ppbv	99
26) Hexane	5.68	57	741308	5.532	ppbv #	55
29) Chloroform	5.74	83	25662m	0.097	ppbv	
30) Cyclohexane	7.16	84	39151m	0.268	ppbv	
34) 2-Butanone	5.24	43	71711	0.541	ppbv	100
35) Carbon Tetrachloride	7.01	117	17751	0.081	ppbv #	84
36) Benzene	6.89	78	90332	0.298	ppbv #	91
38) Trichloroethene	7.83	130	4577m	0.031	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	92228m	0.230	ppbv	
52) Tetrachloroethene	11.23	164	5765m	0.040	ppbv	
53) Toluene	9.81	91	1624692	4.435	ppbv	98
58) Ethyl Benzene	12.71	91	46352	0.101	ppbv #	85
59) m/p-Xylene	12.97	91	139663	0.360	ppbv	100
60) o-Xylene	13.69	91	55409	0.147	ppbv	99
74) 1,2,4-Trimethylbenzene	16.76	105	61065	0.136	ppbv #	68

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

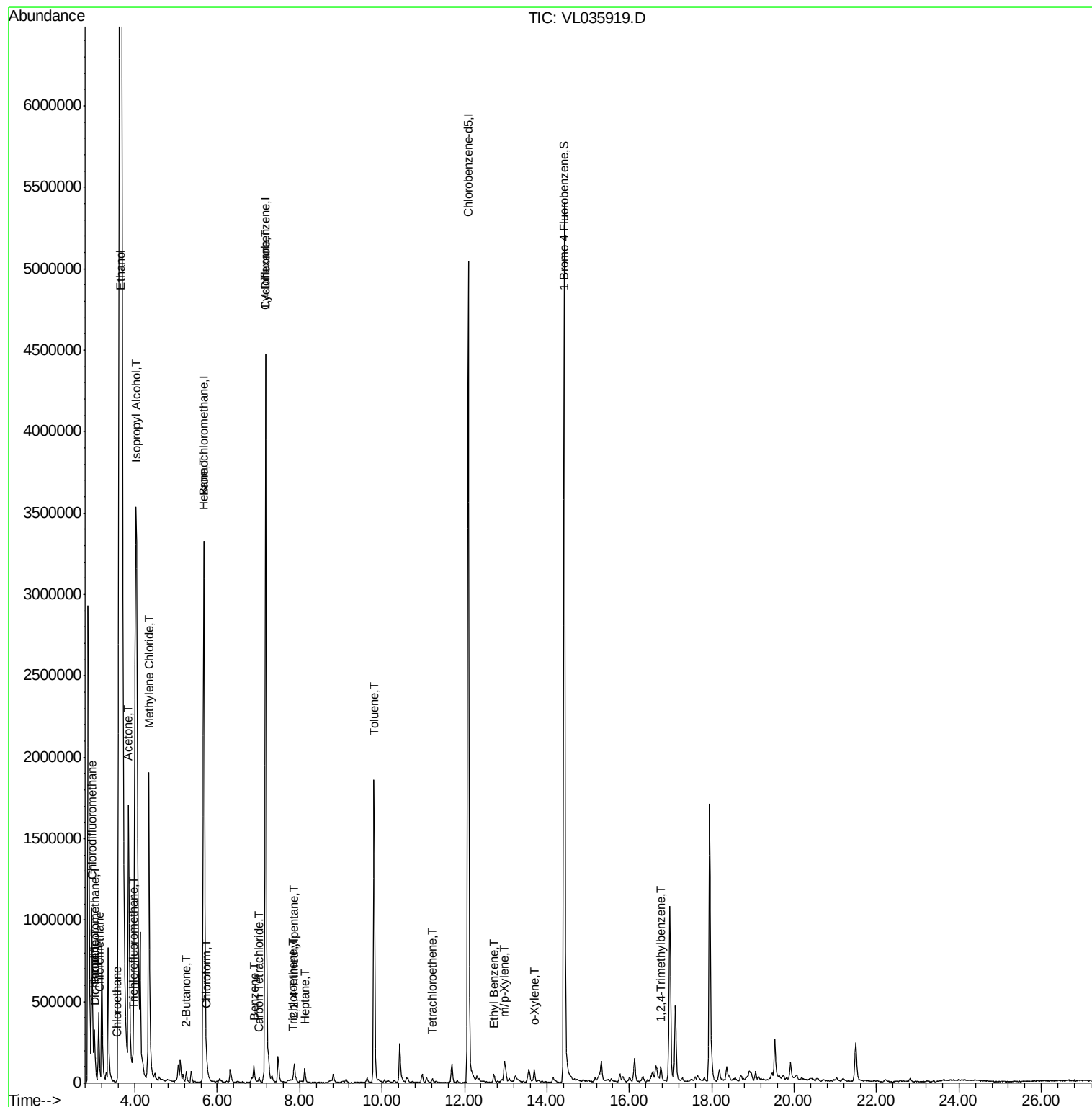
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111220\
Data File : VL035919.D
Acq On : 12 Nov 2020 18:42
Operator : SY/AP
Sample : L4720-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

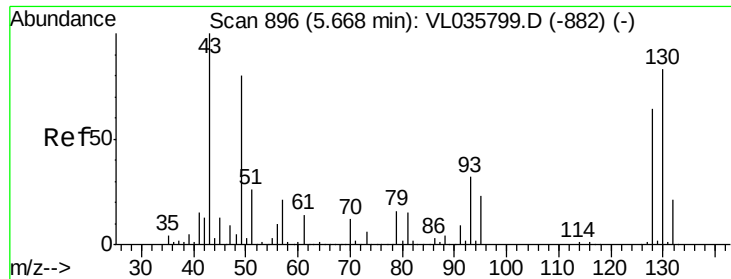
Instrument :
MSVOA_L
ClientSampleId :
CVS-4

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Quant Time: Nov 14 21:36:51 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL035919.D

Acq: 12 Nov 2020 18:42

Instrument :

MSVOA_L

ClientSampled :

CVS-4

Tot Ion: 49 Resp: 1153785

Ion Ratio Lower Upper

49 100

128 77.3 41.5 124.6

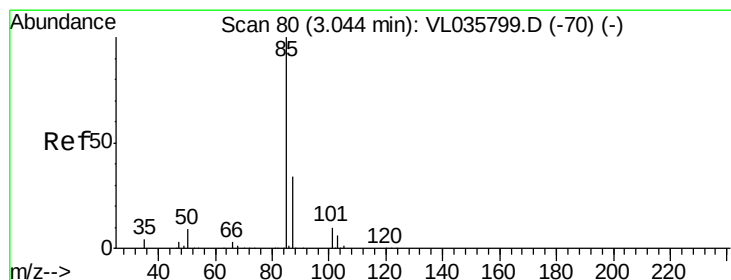
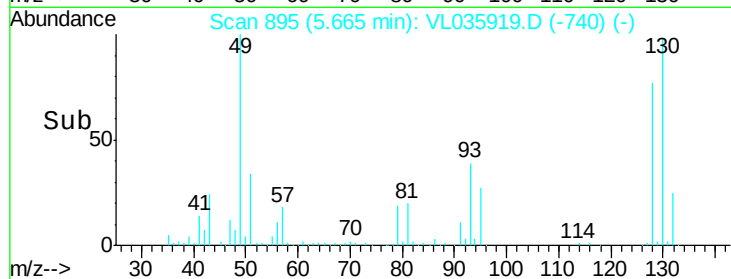
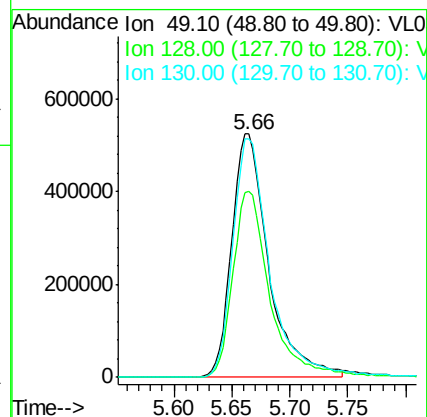
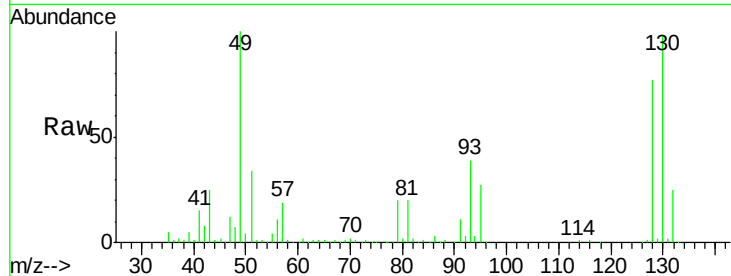
130 99.8 53.7 161.1

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.265 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL035919.D

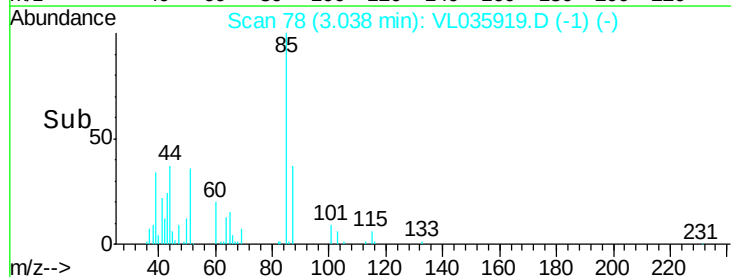
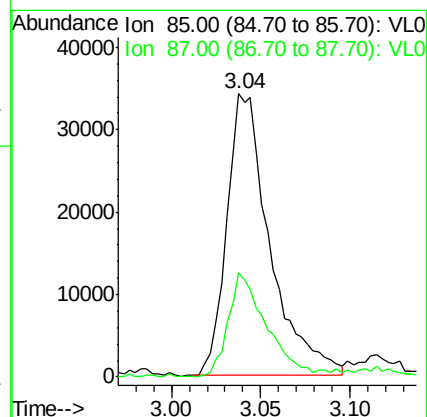
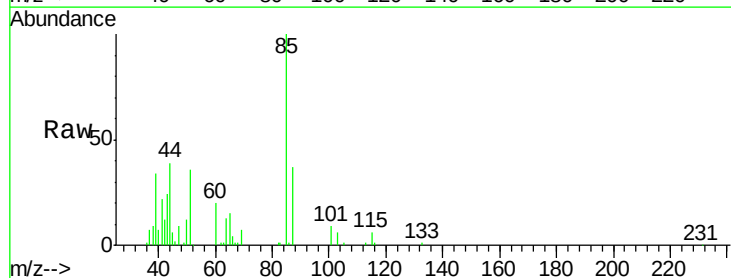
Acq: 12 Nov 2020 18:42

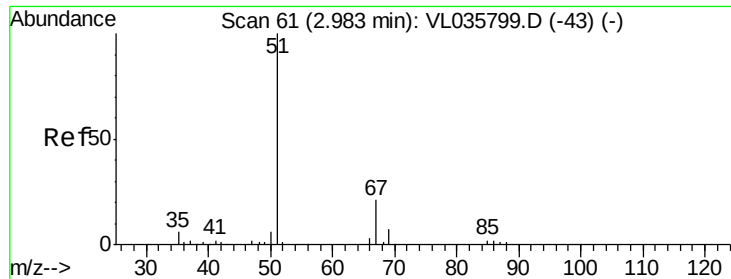
Tgt Ion: 85 Resp: 57500

Ion Ratio Lower Upper

85 100

87 37.1 27.1 40.7





#3

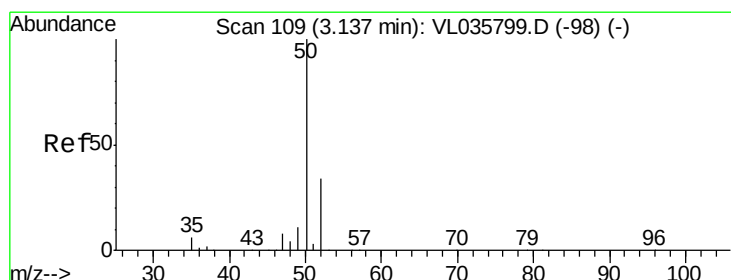
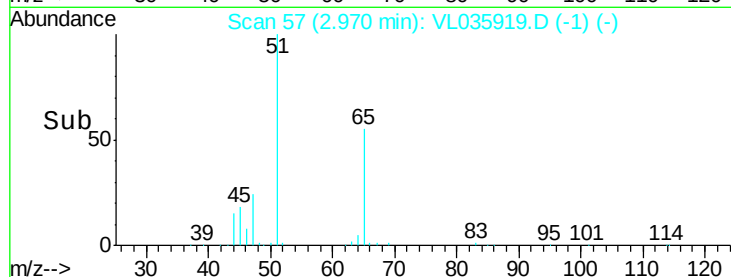
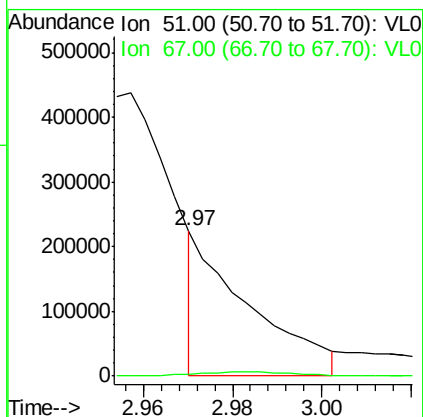
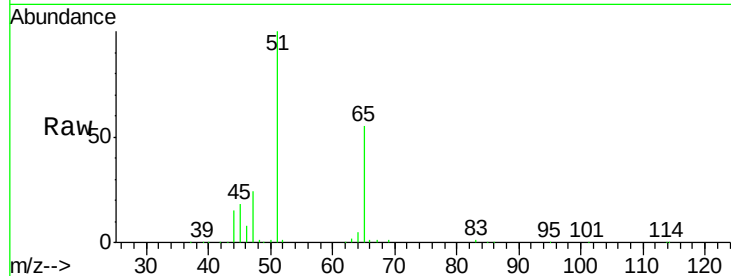
Chlorodifluoromethane
Concen: 1.350 ppbv
RT: 2.97 min Scan# 57
Delta R.T. -0.01 min
Lab File: VL035919.D
Acq: 12 Nov 2020 18:42

Instrument :
MSVOA_L
ClientSampled :
CVS-4

Tot Ion	Ratio	Lower	Upper
51	100		
67	6.5	17.0	25.4#

Manual Integrations
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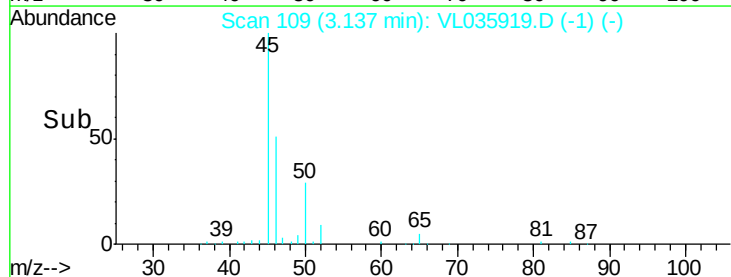
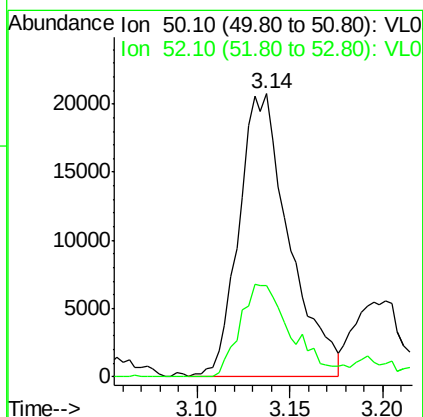
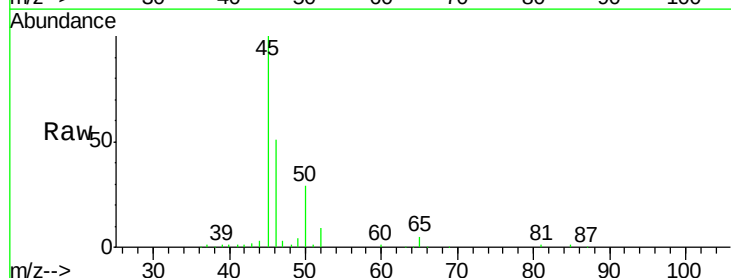
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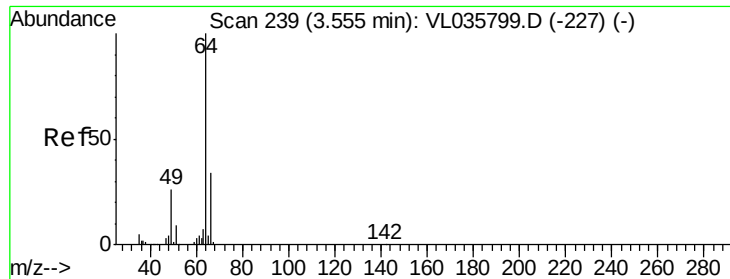


#4

Chloromethane
Concen: 0.583 ppbv
RT: 3.14 min Scan# 109
Delta R.T. 0.00 min
Lab File: VL035919.D
Acq: 12 Nov 2020 18:42

Tgt Ion	Ratio	Lower	Upper
50	100		
52	32.3	27.1	40.7





#7

Chloroethane

Concen: 0.140 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL035919.D

Acq: 12 Nov 2020 18:42

Instrument :

MSVOA_L

ClientSampleId :

CVS-4

Tot Ion: 64 Resp: 4230

Ion Ratio Lower Upper

64 100

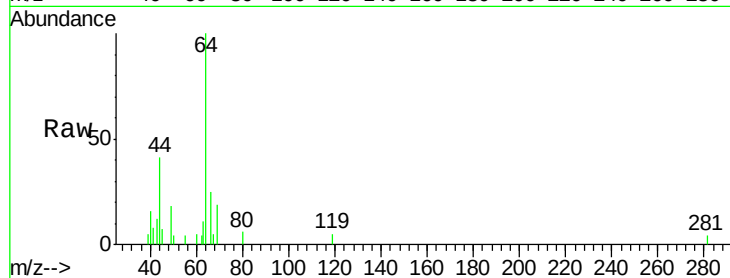
66 24.9 27.0 40.6#

Manual Integrations

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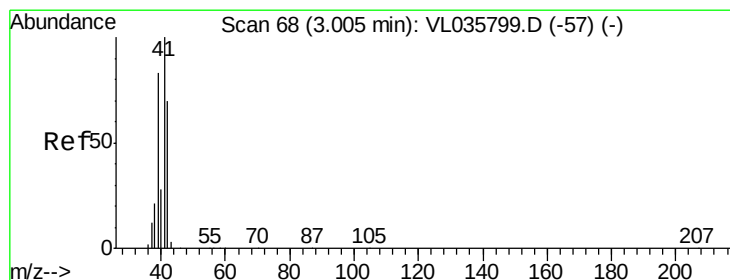
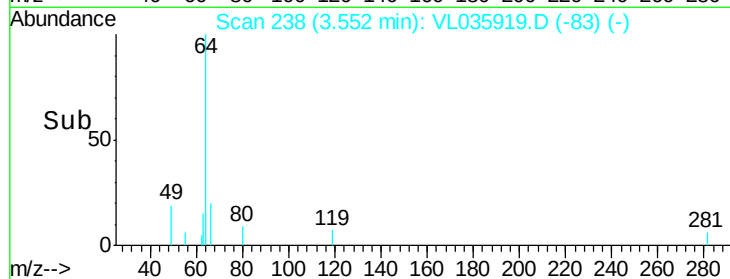
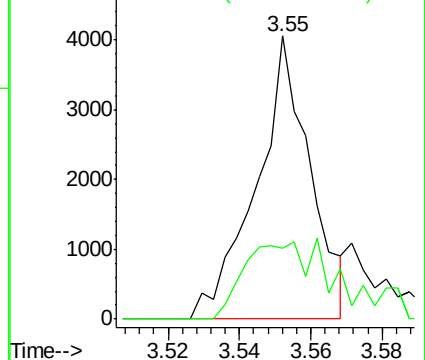
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 1.434 ppbv m

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL035919.D

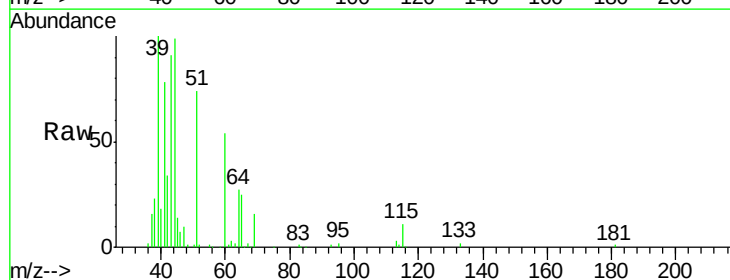
Acq: 12 Nov 2020 18:42

Tgt Ion: 41 Resp: 72544

Ion Ratio Lower Upper

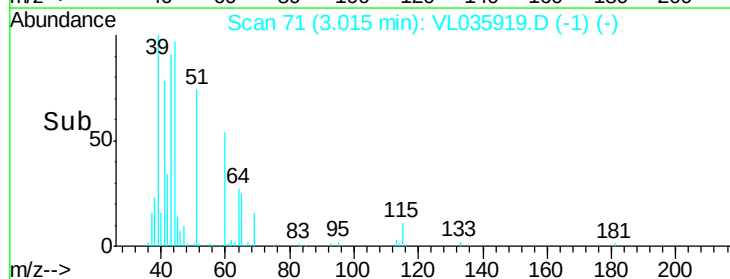
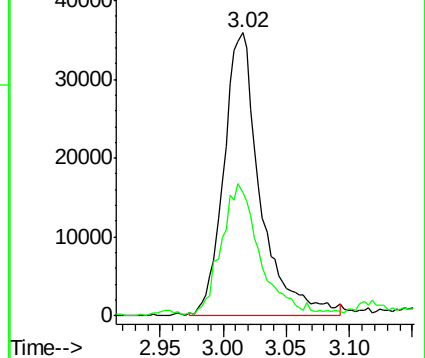
41 100

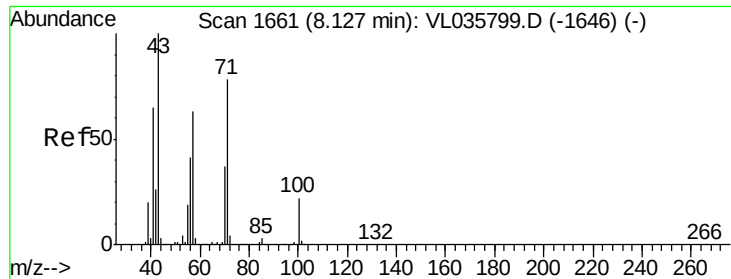
42 261.9 56.2 84.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

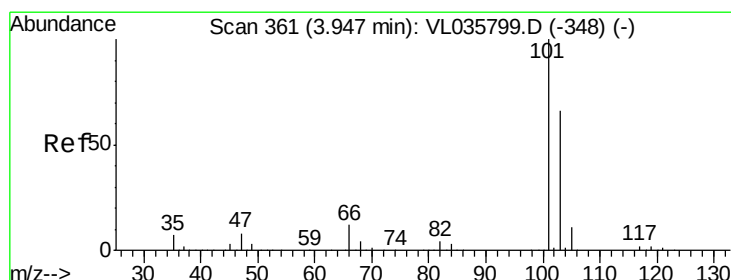
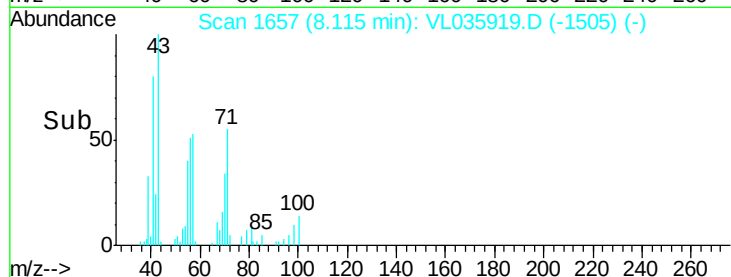
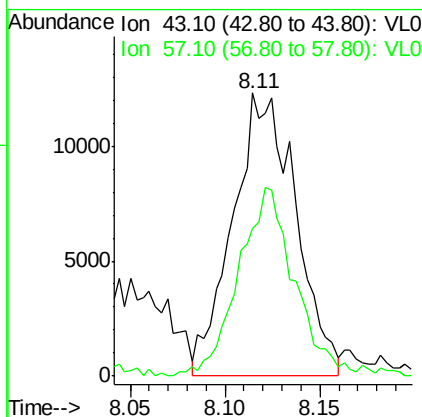
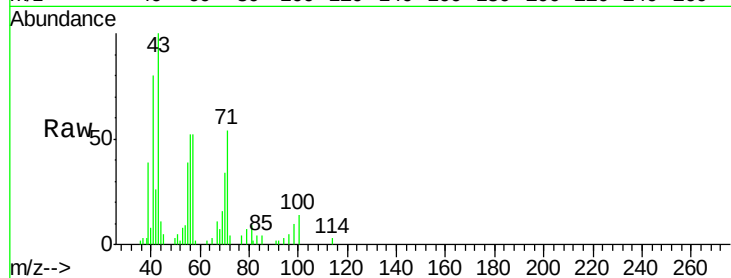
Concen: 0.203 ppbv m
 RT: 8.11 min Scan# 1657
 Delta R.T. -0.01 min
 Lab File: VL035919.D
 Acq: 12 Nov 2020 18:42

Instrument :
 MSVOA_L
 ClientSampleId :
 CVS-4

Tot Ion: 43 Resp: 28391
 Ion Ratio Lower Upper
 43 100
 57 60.6 50.0 75.0

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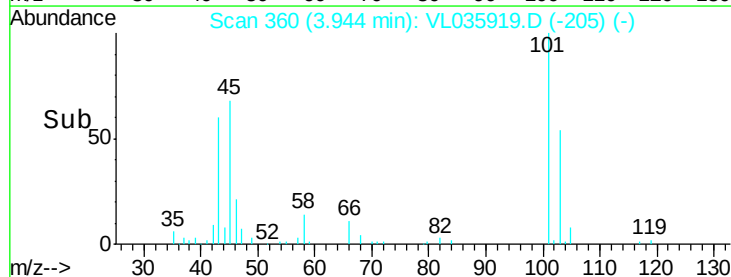
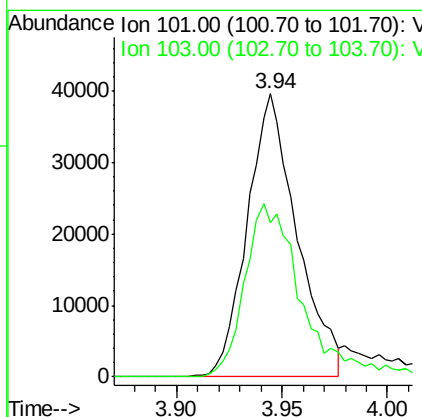
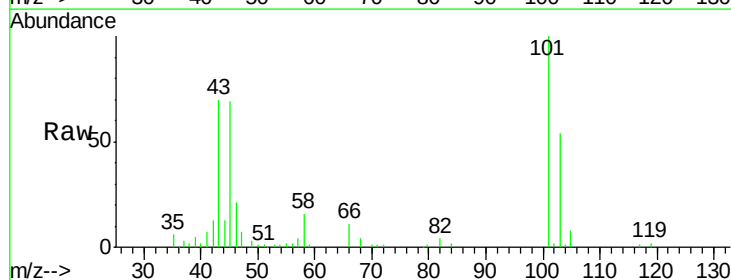


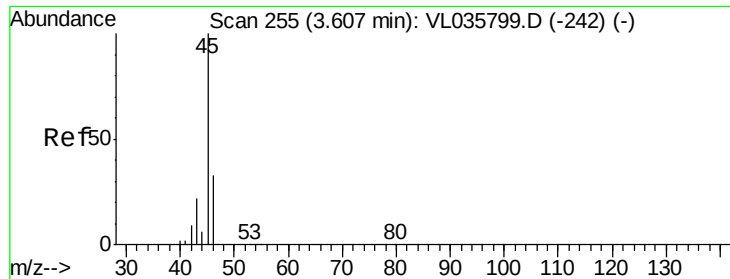
#11

Trichlorofluoromethane

Concen: 0.238 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.00 min
 Lab File: VL035919.D
 Acq: 12 Nov 2020 18:42

Tgt Ion: 101 Resp: 65026
 Ion Ratio Lower Upper
 101 100
 103 54.3 53.0 79.4





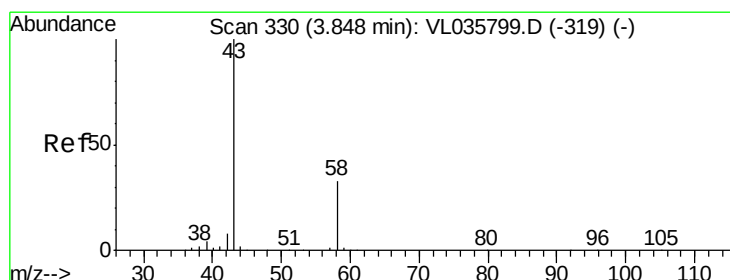
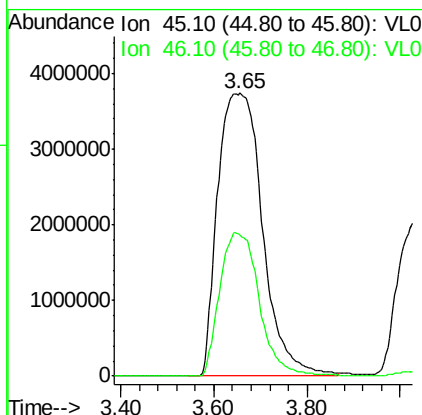
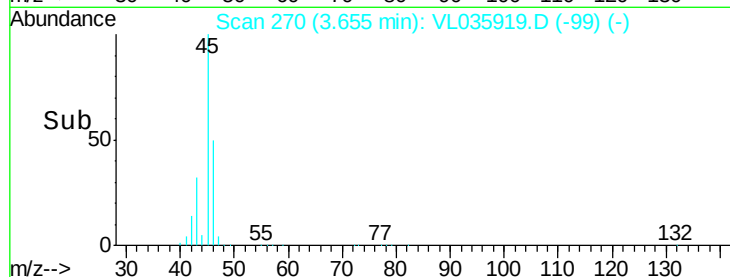
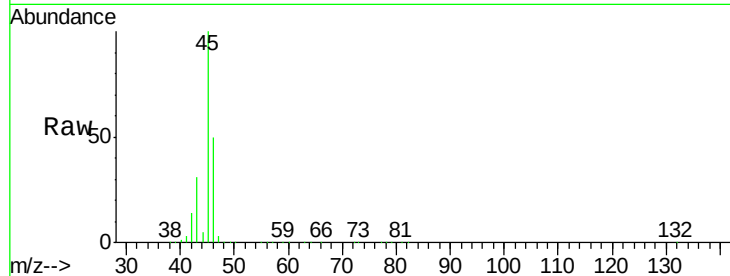
#13
Ethanol
Concen: 2274.730 ppbv m
RT: 3.65 min Scan# 270
Delta R.T. 0.05 min
Lab File: VL035919.D
Acq: 12 Nov 2020 18:42

Instrument :
MSVOA_L
ClientSampled :
CVS-4

Tot Ion: 45 Resp: 24956608
Ion Ratio Lower Upper
45 100
46 44.9 16.1 64.5

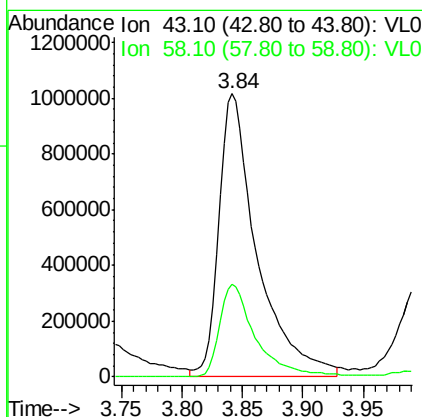
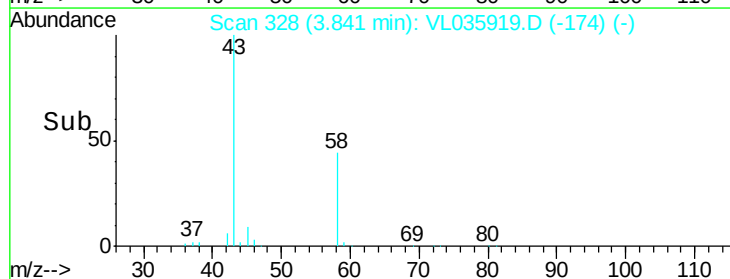
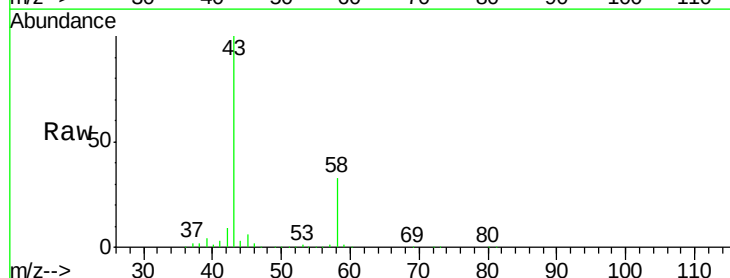
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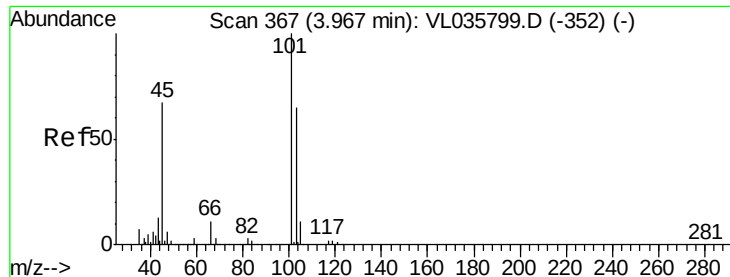
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#15
Acetone
Concen: 18.235 ppbv m
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL035919.D
Acq: 12 Nov 2020 18:42

Tgt Ion: 43 Resp: 2249322
Ion Ratio Lower Upper
43 100
58 31.1 27.5 41.3





#19

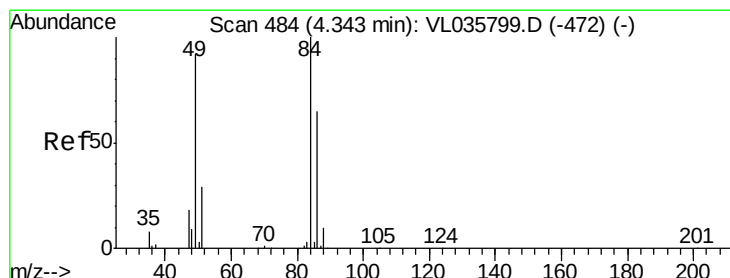
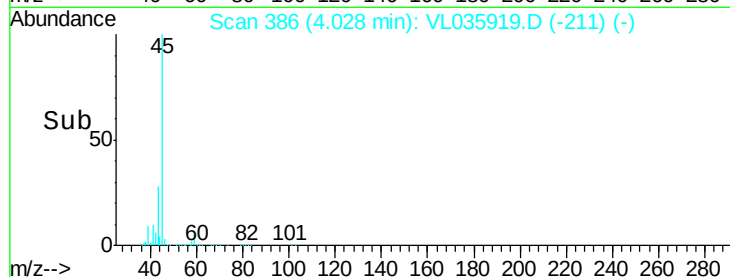
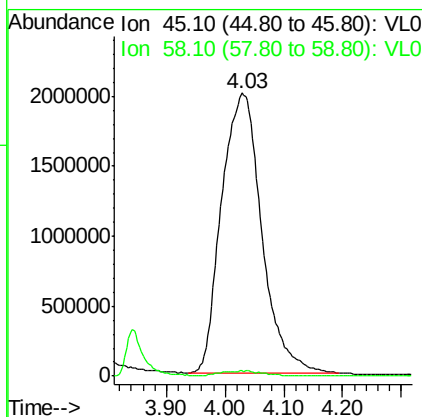
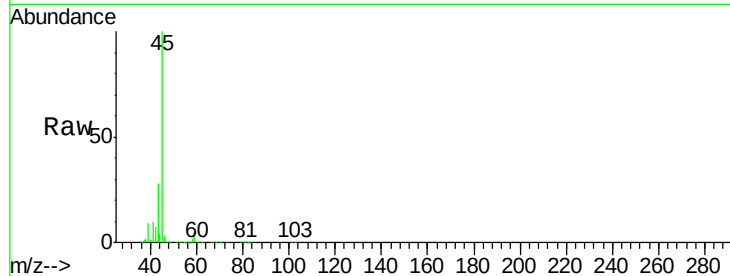
Isopropyl Alcohol
 Concen: 125.433 ppbv
 RT: 4.03 min Scan# 386
 Delta R.T. 0.06 min
 Lab File: VL035919.D
 Acq: 12 Nov 2020 18:42

Instrument :
 MSVOA_L
 ClientSampled :
 CVS-4

Tot Ion: 45 Resp: 9508111
 Ion Ratio Lower Upper
 45 100
 58 2.1 2.6 3.8#

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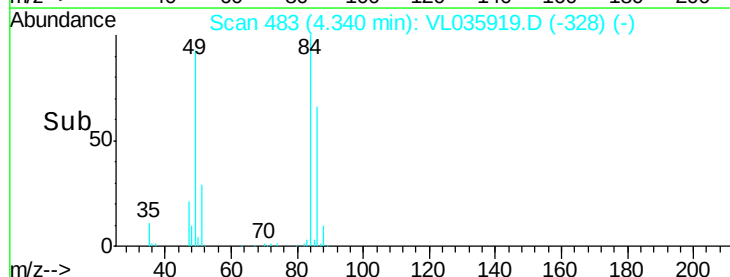
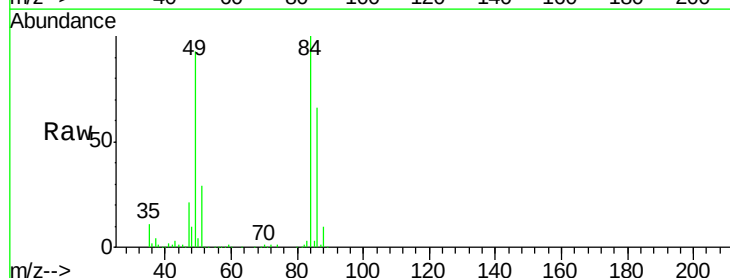
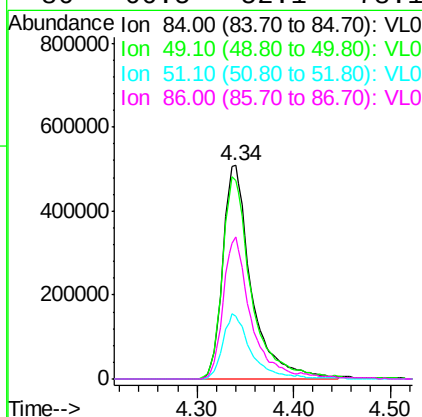
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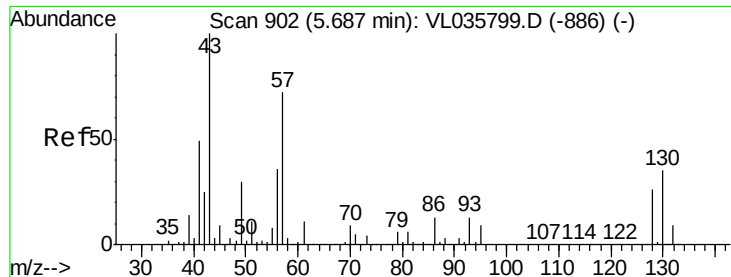


#20

Methylene Chloride
 Concen: 12.034 ppbv
 RT: 4.34 min Scan# 483
 Delta R.T. -0.00 min
 Lab File: VL035919.D
 Acq: 12 Nov 2020 18:42

Tgt Ion: 84 Resp: 1044998
 Ion Ratio Lower Upper
 84 100
 49 93.1 73.8 110.8
 51 29.3 23.0 34.4
 86 66.5 52.1 78.1





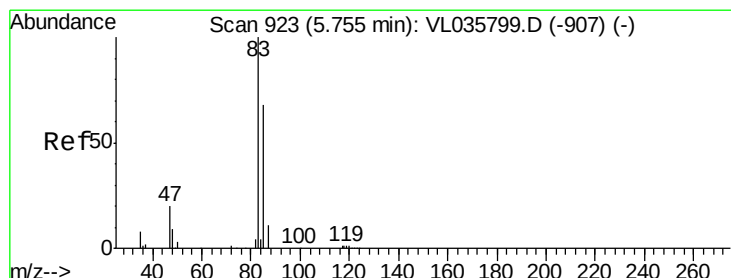
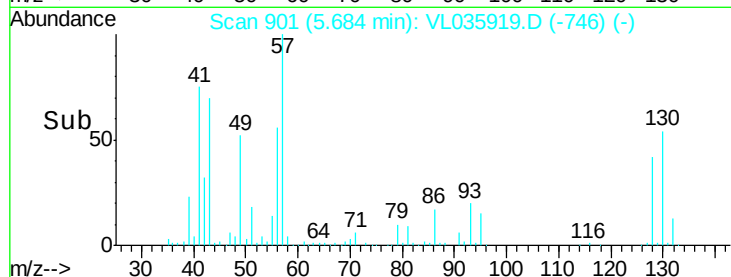
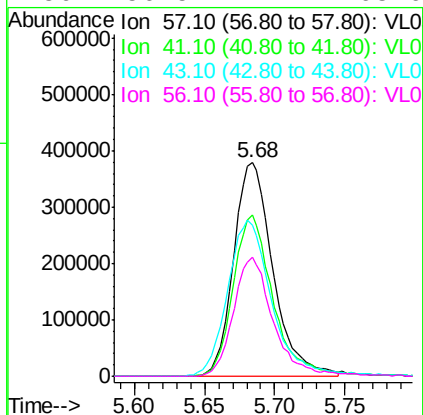
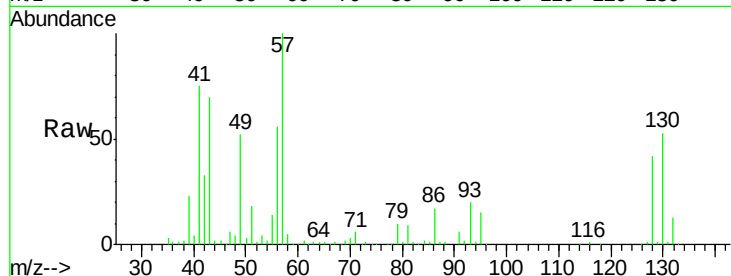
#26
Hexane
Concen: 5.532 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035919.D
Acq: 12 Nov 2020 18:42

Instrument :
MSVOA_L
ClientSampleId :
CVS-4

Tot Ion	Ratio	Lower	Upper
57	100		
41	77.9	58.9	88.3
43	82.3	150.2	225.2#
56	56.5	42.4	63.6

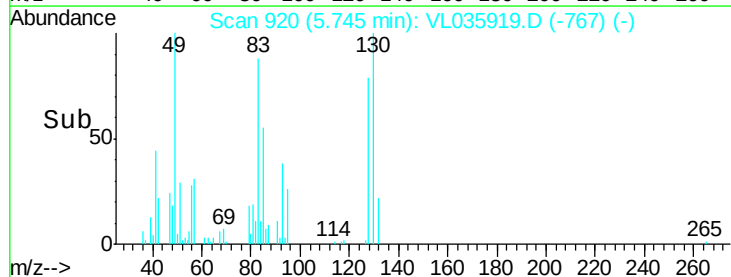
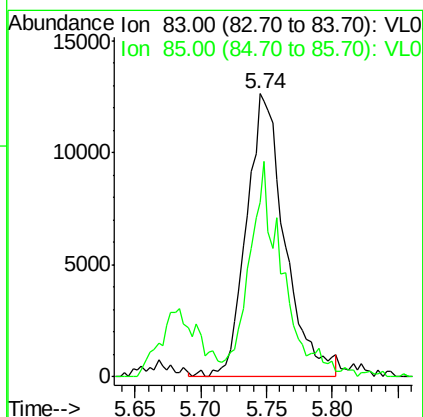
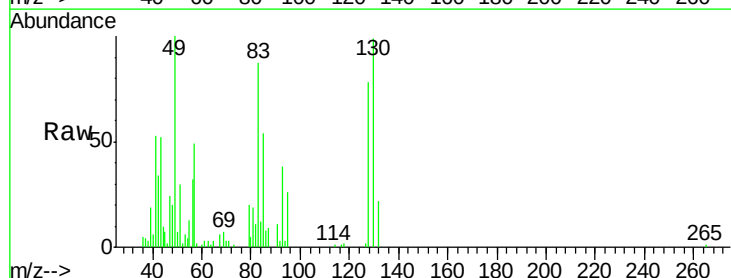
Manual Integrations
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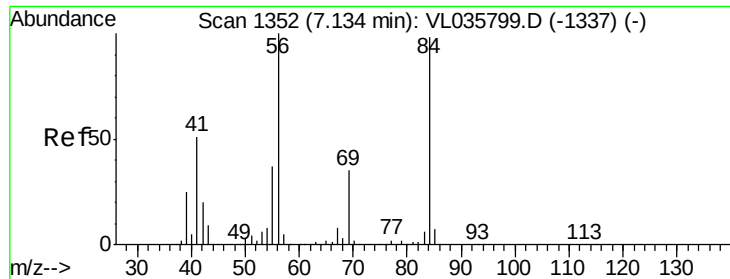
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#29
Chloroform
Concen: 0.097 ppbv m
RT: 5.74 min Scan# 920
Delta R.T. -0.01 min
Lab File: VL035919.D
Acq: 12 Nov 2020 18:42

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.8	54.6	81.8





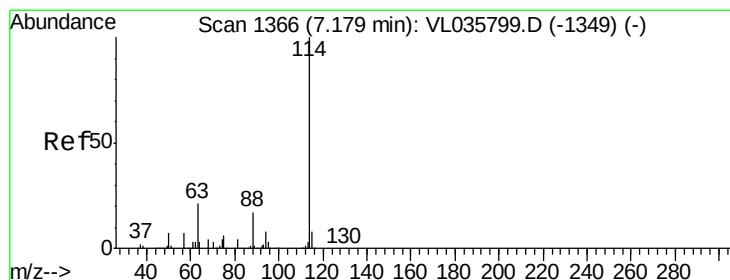
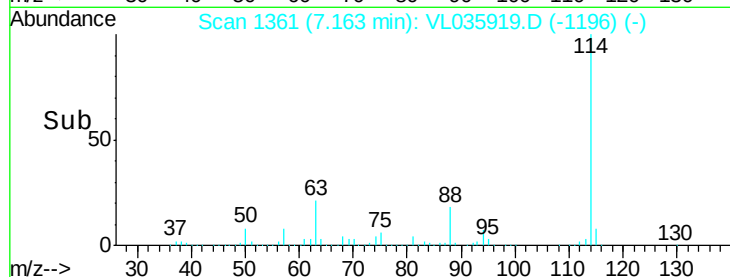
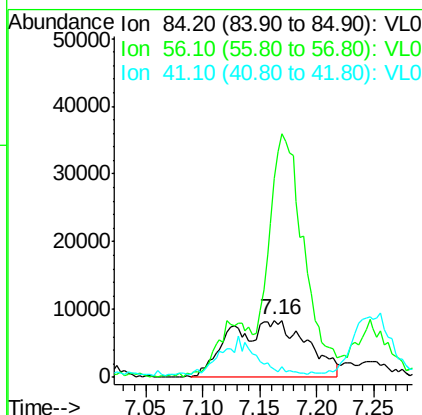
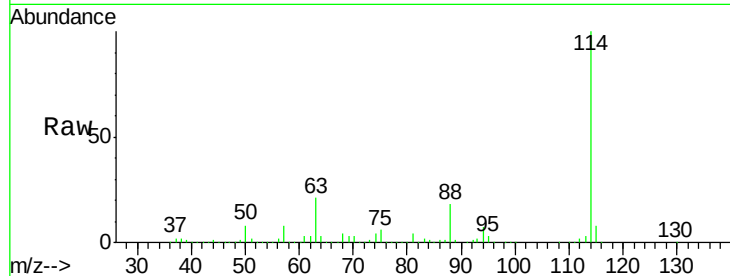
#30
Cyclohexane
Concen: 0.268 ppbv m
RT: 7.16 min Scan# 1361
Delta R.T. 0.03 min
Lab File: VL035919.D
Acq: 12 Nov 2020 18:42

Instrument :
MSVOA_L
ClientSampleId :
CVS-4

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	86.4	129.6#
41	30.6	42.1	63.1#

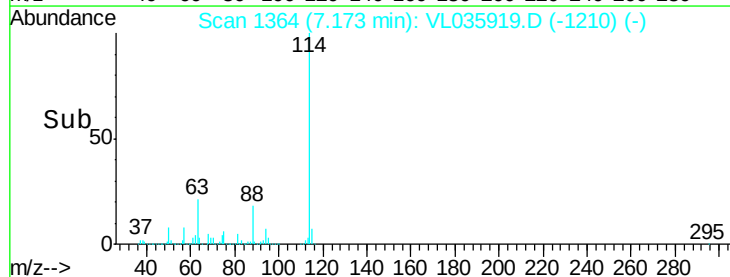
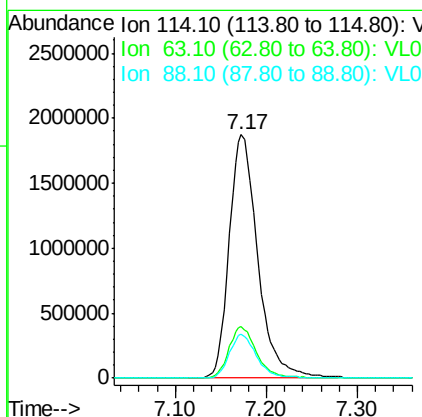
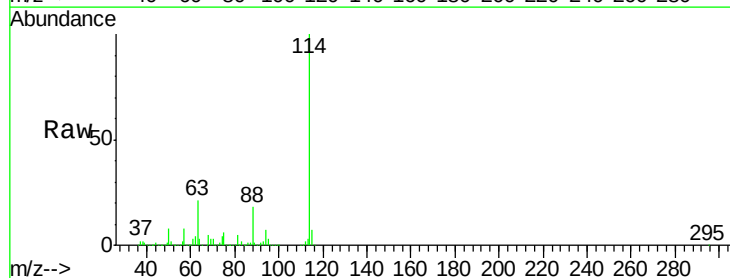
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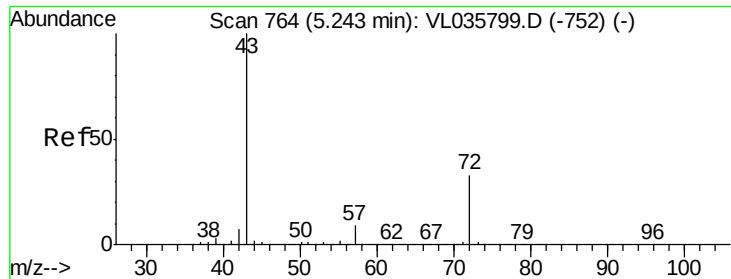
MMDadoda
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL035919.D
Acq: 12 Nov 2020 18:42

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.9	16.1	24.1
88	17.4	13.7	20.5





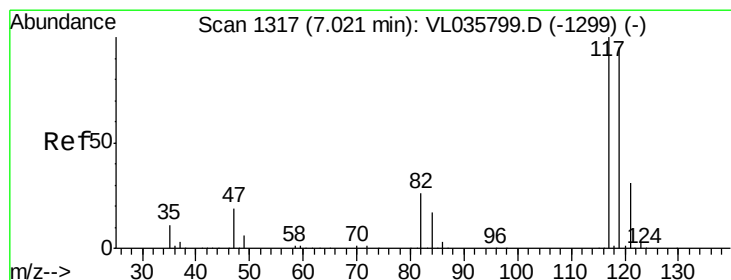
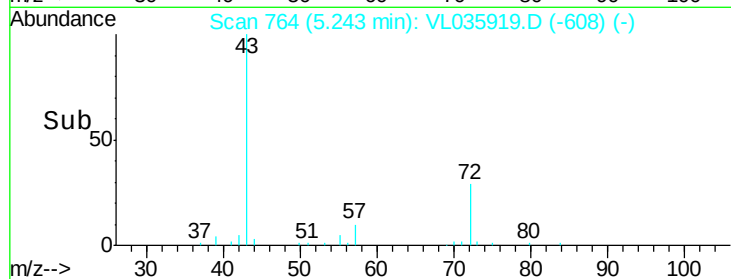
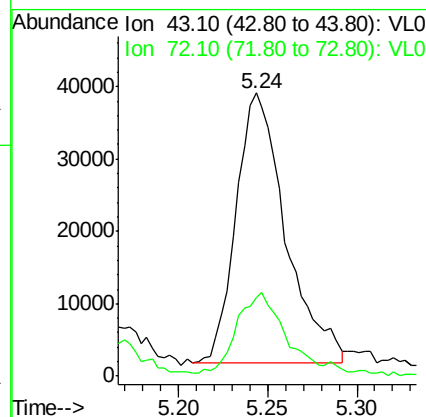
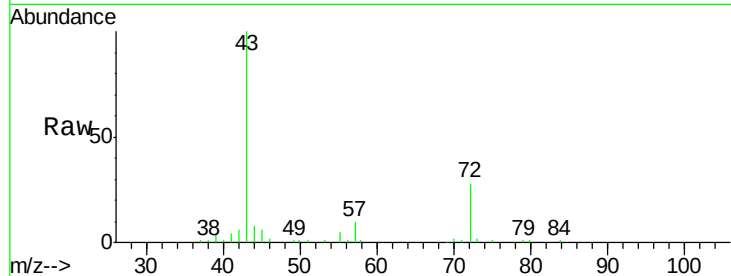
#34
2-Butanone
Concen: 0.541 ppbv
RT: 5.24 min Scan# 764
Delta R.T. 0.00 min
Lab File: VL035919.D
Acq: 12 Nov 2020 18:42

Instrument :
MSVOA_L
ClientSampled :
CVS-4

Tot Ion	43	Ratio	Lower	Upper
43	100			
72	33.3	26.5	39.7	

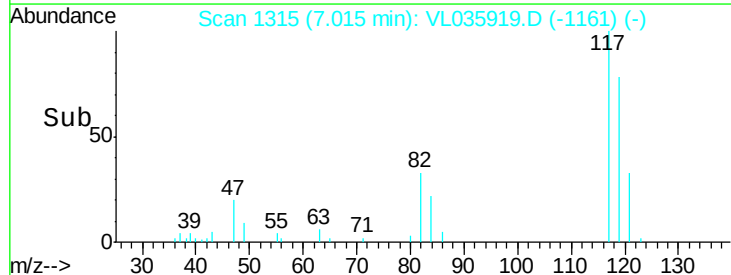
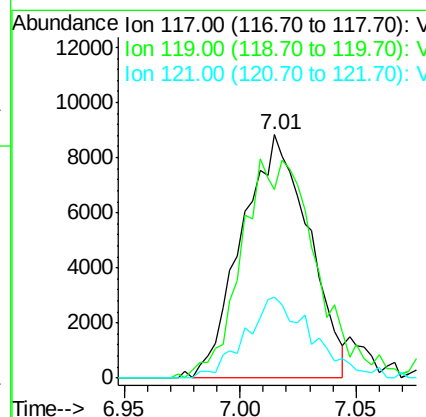
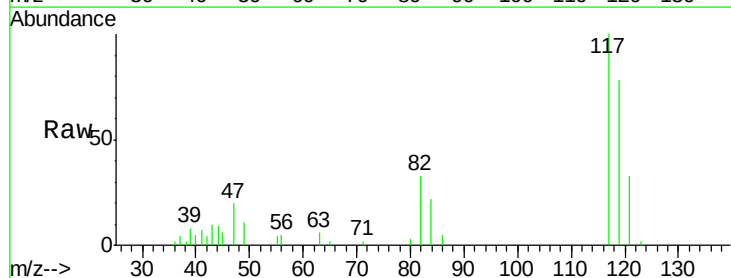
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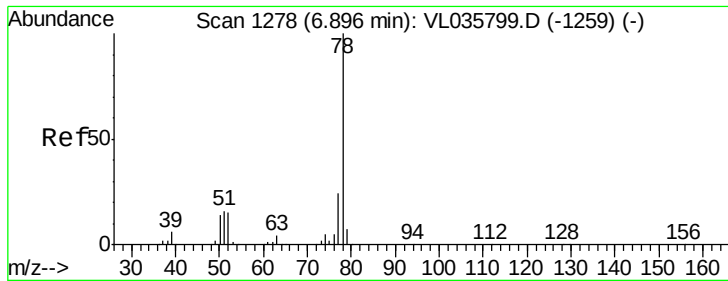
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#35
Carbon Tetrachloride
Concen: 0.081 ppbv
RT: 7.01 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VL035919.D
Acq: 12 Nov 2020 18:42

Tgt Ion	117	Ratio	Lower	Upper
117	100			
119	74.4	75.6	113.4#	
121	33.4	25.1	37.7	





#36

Benzene

Concen: 0.298 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL035919.D

Acq: 12 Nov 2020 18:42

Instrument :

MSVOA_L

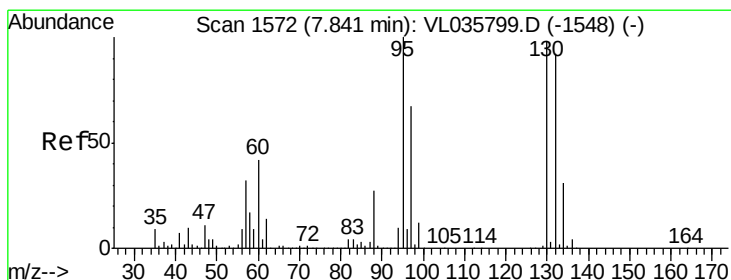
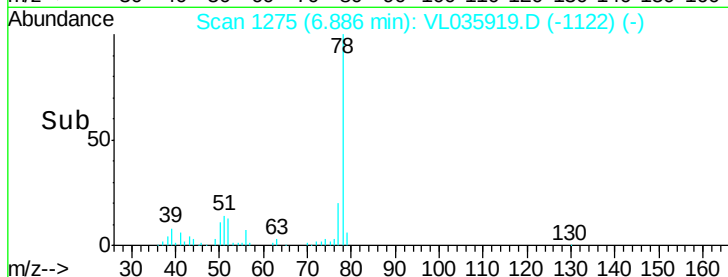
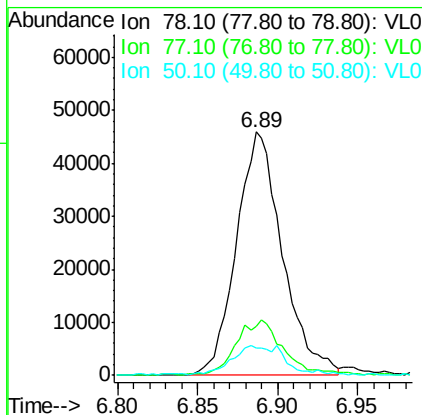
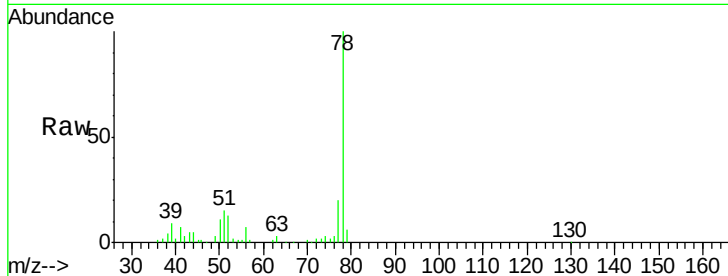
ClientSampled :

CVS-4

Tot Ion:	78	Resp:	90332
Ion Ratio	Lower	Upper	
78	100		
77	19.5	19.3	28.9
50	11.0	11.4	17.2#

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#38

Trichloroethene

Concen: 0.031 ppbv m

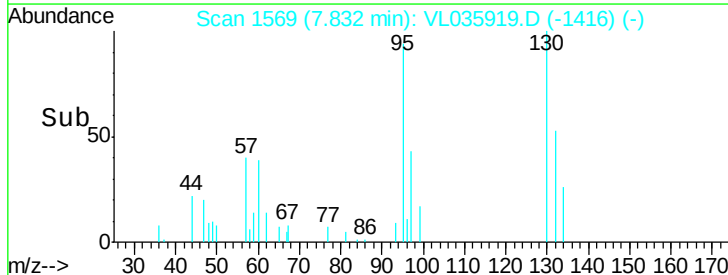
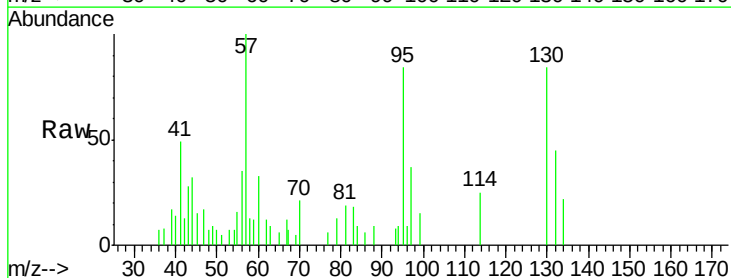
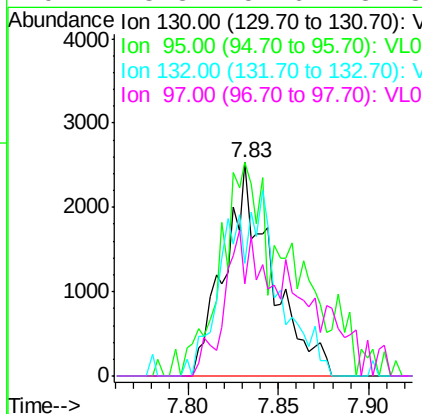
RT: 7.83 min Scan# 1569

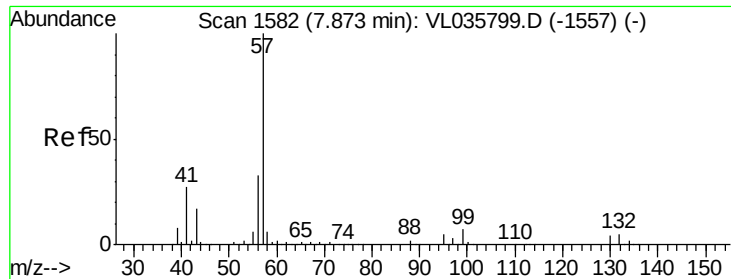
Delta R.T. -0.01 min

Lab File: VL035919.D

Acq: 12 Nov 2020 18:42

Tgt Ion:	130	Resp:	4577
Ion Ratio	Lower	Upper	
130	100		
95	100.0	81.6	122.4
132	53.1	75.1	112.7#
97	43.3	54.6	81.8#





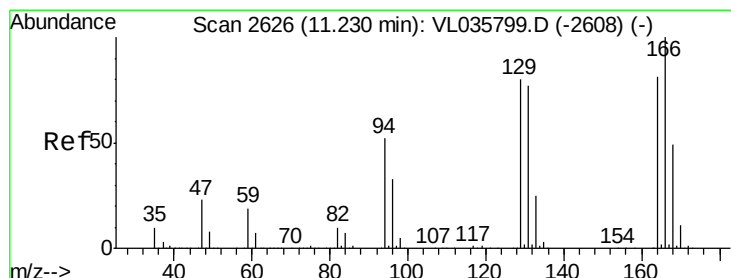
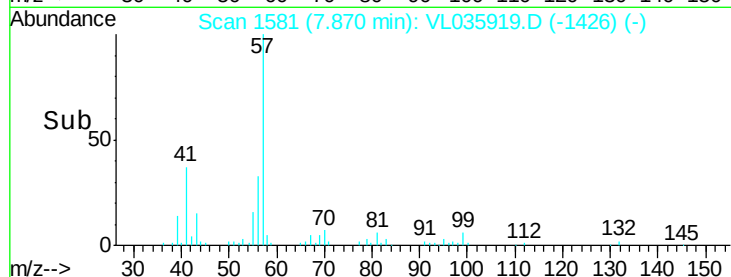
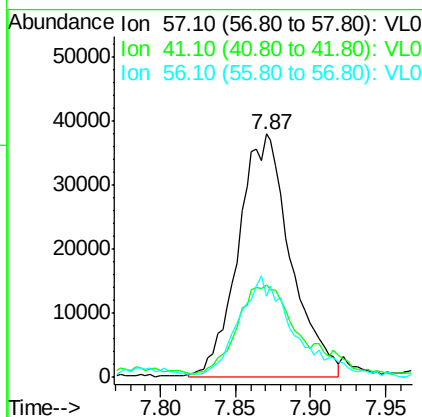
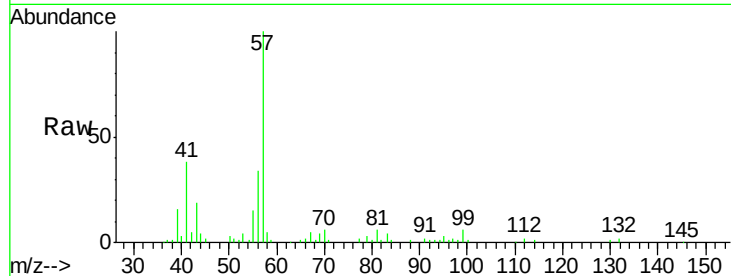
#44
 2,2,4-Trimethylpentane
 Concen: 0.230 ppbv m
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VL035919.D
 Acq: 12 Nov 2020 18:42

Instrument :
 MSVOA_L
 ClientSampleId :
 CVS-4

Tot Ion	Ratio	Lower	Upper
57	100		
41	48.4	21.0	31.4#
56	44.8	25.4	38.0#

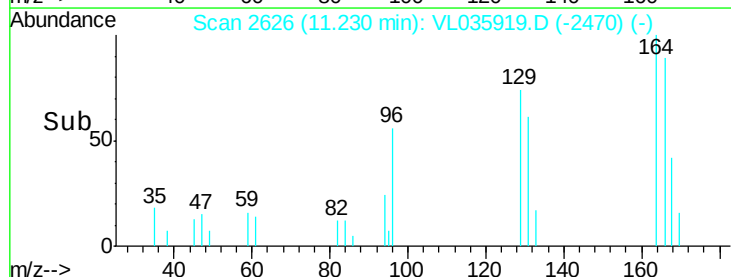
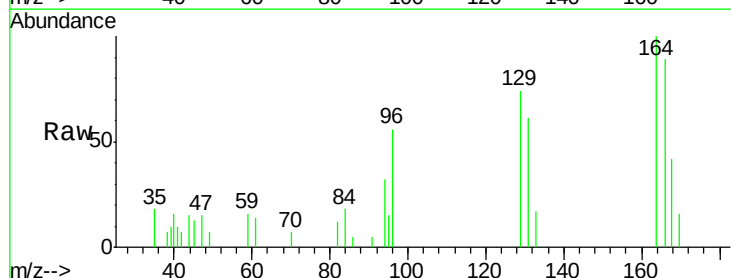
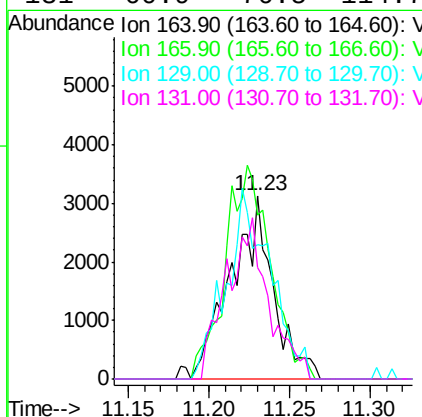
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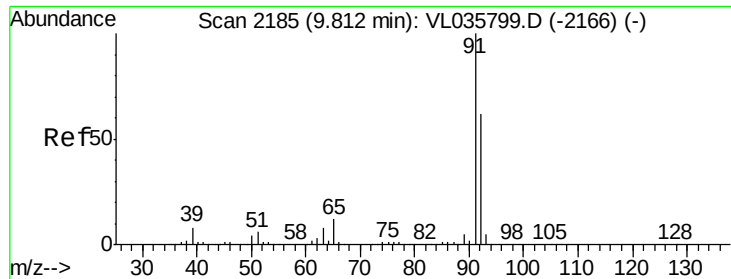
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#52
 Tetrachloroethene
 Concen: 0.040 ppbv m
 RT: 11.23 min Scan# 2626
 Delta R.T. 0.00 min
 Lab File: VL035919.D
 Acq: 12 Nov 2020 18:42

Tgt Ion	Ratio	Lower	Upper
164	100		
166	89.5	99.3	148.9#
129	73.6	79.3	118.9#
131	60.9	76.5	114.7#





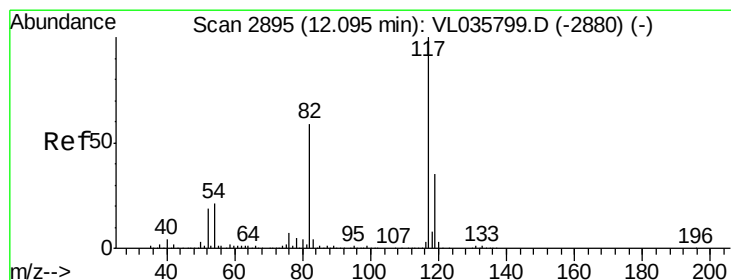
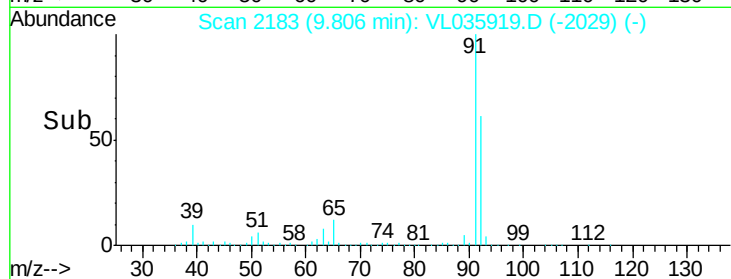
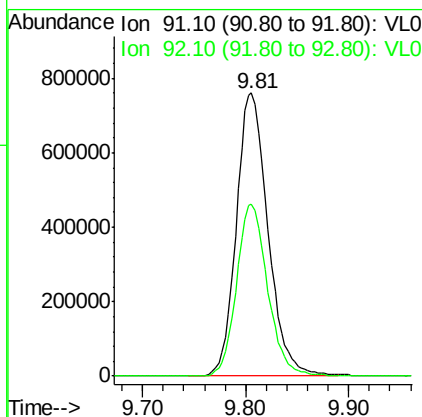
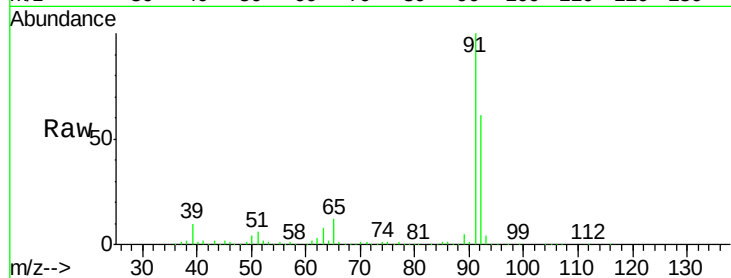
#53
Toluene
Concen: 4.435 ppbv
RT: 9.81 min Scan# 2183
Delta R.T. -0.01 min
Lab File: VL035919.D
Acq: 12 Nov 2020 18:42

Instrument :
MSVOA_L
ClientSampled :
CVS-4

Tot Ion: 91 Resp: 1624692
Ion Ratio Lower Upper
91 100
92 60.3 49.8 74.6

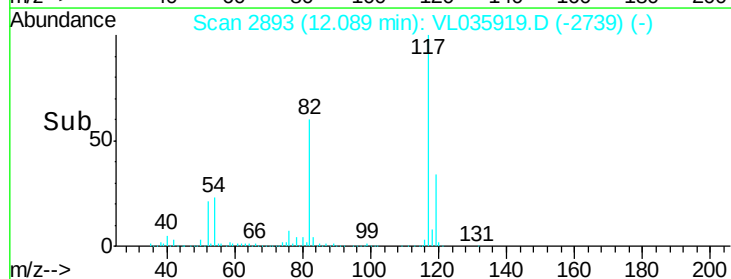
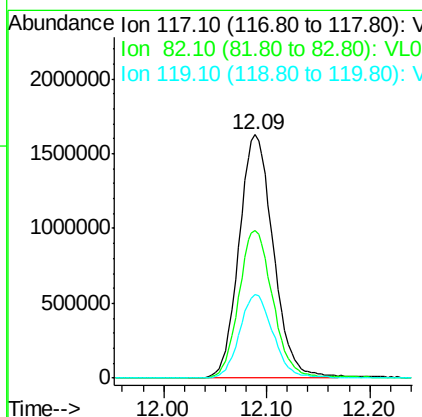
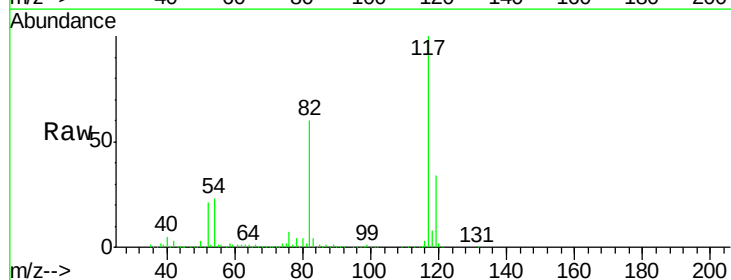
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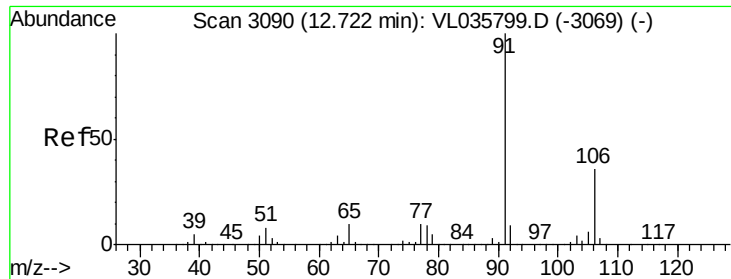
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL035919.D
Acq: 12 Nov 2020 18:42

Tgt Ion: 117 Resp: 3766555
Ion Ratio Lower Upper
117 100
82 61.2 50.6 76.0
119 34.0 52.6 78.8#





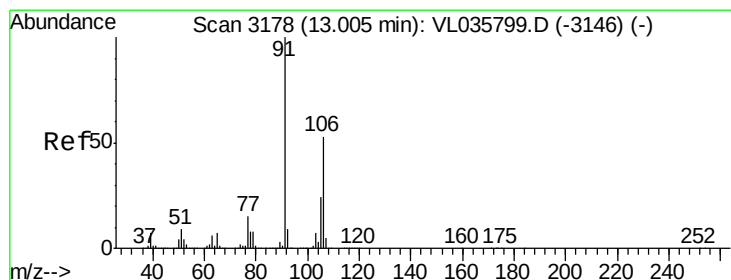
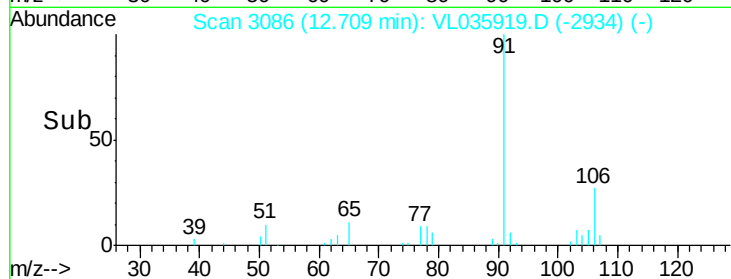
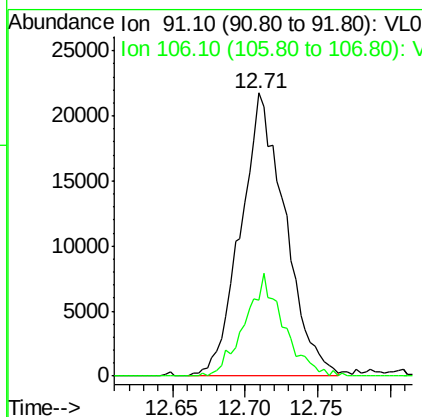
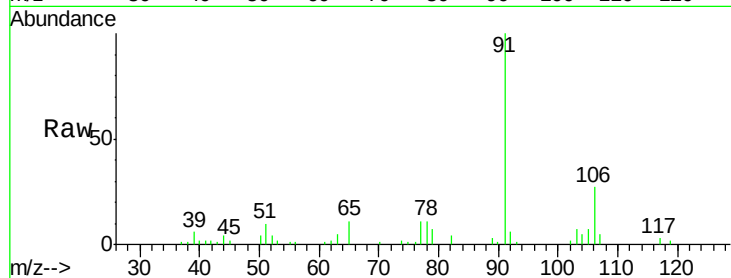
#58
Ethyl Benzene
Concen: 0.101 ppbv
RT: 12.71 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL035919.D
Acq: 12 Nov 2020 18:42

Instrument :
MSVOA_L
ClientSampled :
CVS-4

Tot Ion: 91 Resp: 46352
Ion Ratio Lower Upper
91 100
106 26.7 28.6 43.0#

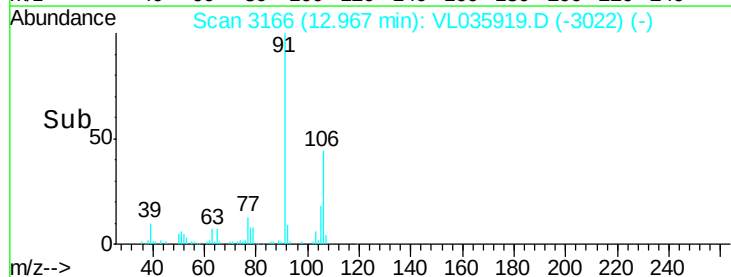
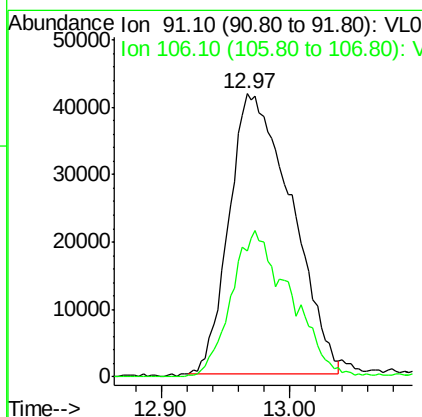
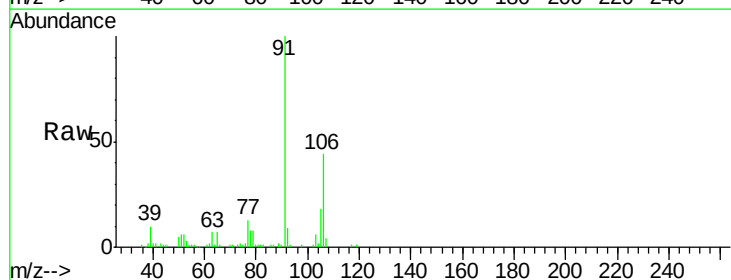
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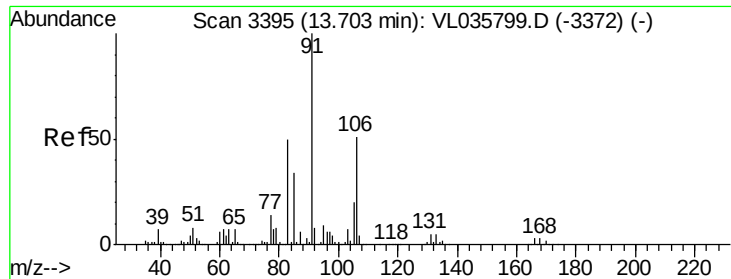
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#59
m/p-Xylene
Concen: 0.360 ppbv
RT: 12.97 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL035919.D
Acq: 12 Nov 2020 18:42

Tgt Ion: 91 Resp: 139663
Ion Ratio Lower Upper
91 100
106 49.5 39.5 59.3





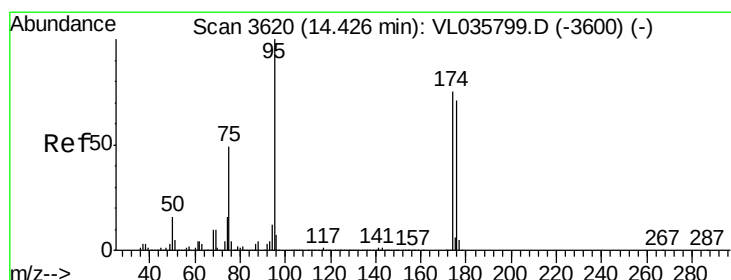
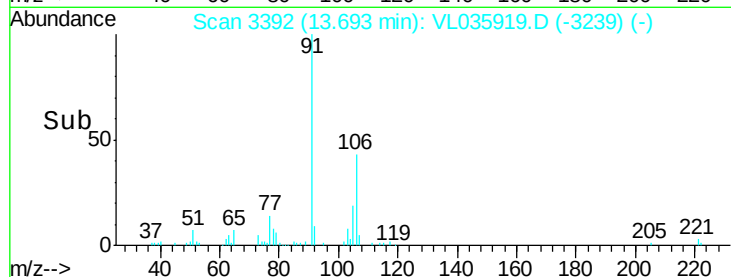
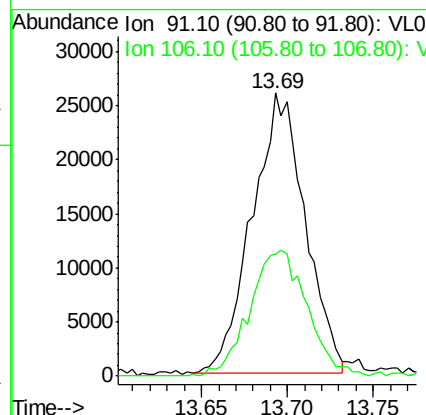
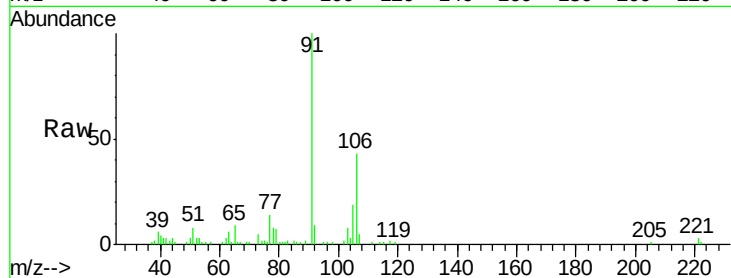
#60
o-Xylene
Concen: 0.147 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL035919.D
Acq: 12 Nov 2020 18:42

Instrument :
MSVOA_L
ClientSampled :
CVS-4

Tot Ion: 91 Resp: 55409
Ion Ratio Lower Upper
91 100
106 49.2 24.8 74.4

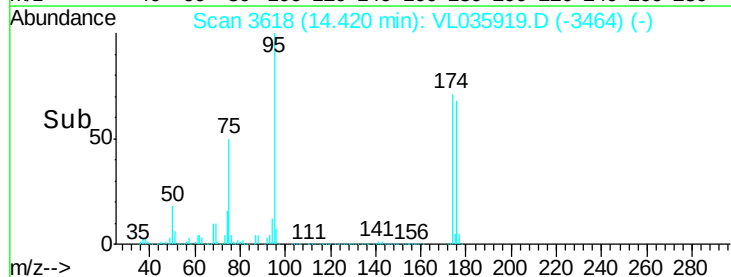
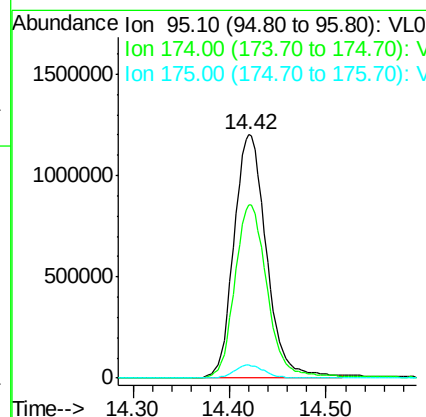
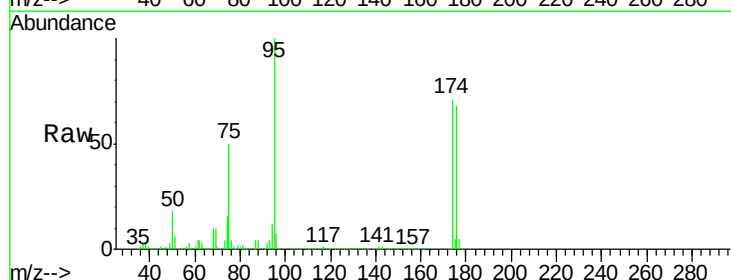
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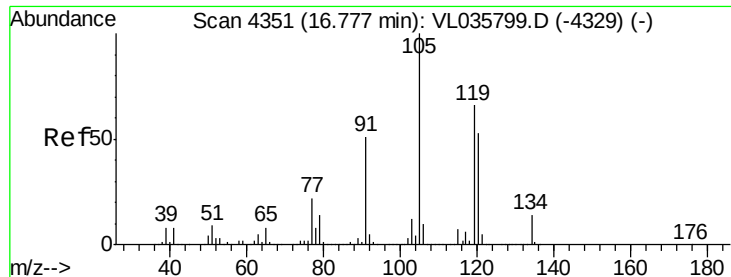
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.516 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. -0.01 min
Lab File: VL035919.D
Acq: 12 Nov 2020 18:42

Tgt Ion: 95 Resp: 2814013
Ion Ratio Lower Upper
95 100
174 72.1 59.8 89.6
175 5.2 4.3 6.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.136 ppbv
 RT: 16.76 min Scan# 4347
 Delta R.T. -0.01 min
 Lab File: VL035919.D
 Acq: 12 Nov 2020 18:42

Instrument :
 MSVOA_L
 ClientSampleId :
 CVS-4

Tot Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	42.7	42.0	63.0
91	13.1	41.0	61.6#
77	12.3	17.3	25.9#

Manual Integrations
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