

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110420\
 Data File : VL035848.D
 Acq On : 5 Nov 2020 1:20
 Operator : SY/AP
 Sample : L4220-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Manual Integrations
 APPROVED

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 11/5/2020 2:17:53 PM

Quant Time: Nov 05 05:20:22 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	5.63	49	792425	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.14	114	3323756	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.05	117	2993303	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.38	95	2108111	9.91	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	36133	0.242	ppbv	95
3) Chlorodifluoromethane	2.96	51	40919m	0.431	ppbv	
4) Chloromethane	3.11	50	23889m	0.518	ppbv	
9) Propene	3.00	41	33836m	0.974	ppbv	
11) Trichlorofluoromethane	3.92	101	48959	0.261	ppbv	93
13) Ethanol	3.58	45	94231	12.506	ppbv	96
15) Acetone	3.83	43	270648	3.195	ppbv	96
19) Isopropyl Alcohol	3.95	45	40520m	0.778	ppbv	
20) Methylene Chloride	4.31	84	466384	7.820	ppbv	99
26) Hexane	5.65	57	343684	3.734	ppbv #	46
34) 2-Butanone	5.22	43	17919m	0.166	ppbv	
35) Carbon Tetrachloride	6.99	117	10872m	0.061	ppbv	
36) Benzene	6.86	78	45596	0.185	ppbv	100
52) Tetrachloroethene	11.19	164	4586m	0.039	ppbv	
53) Toluene	9.77	91	146561	0.492	ppbv	97

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

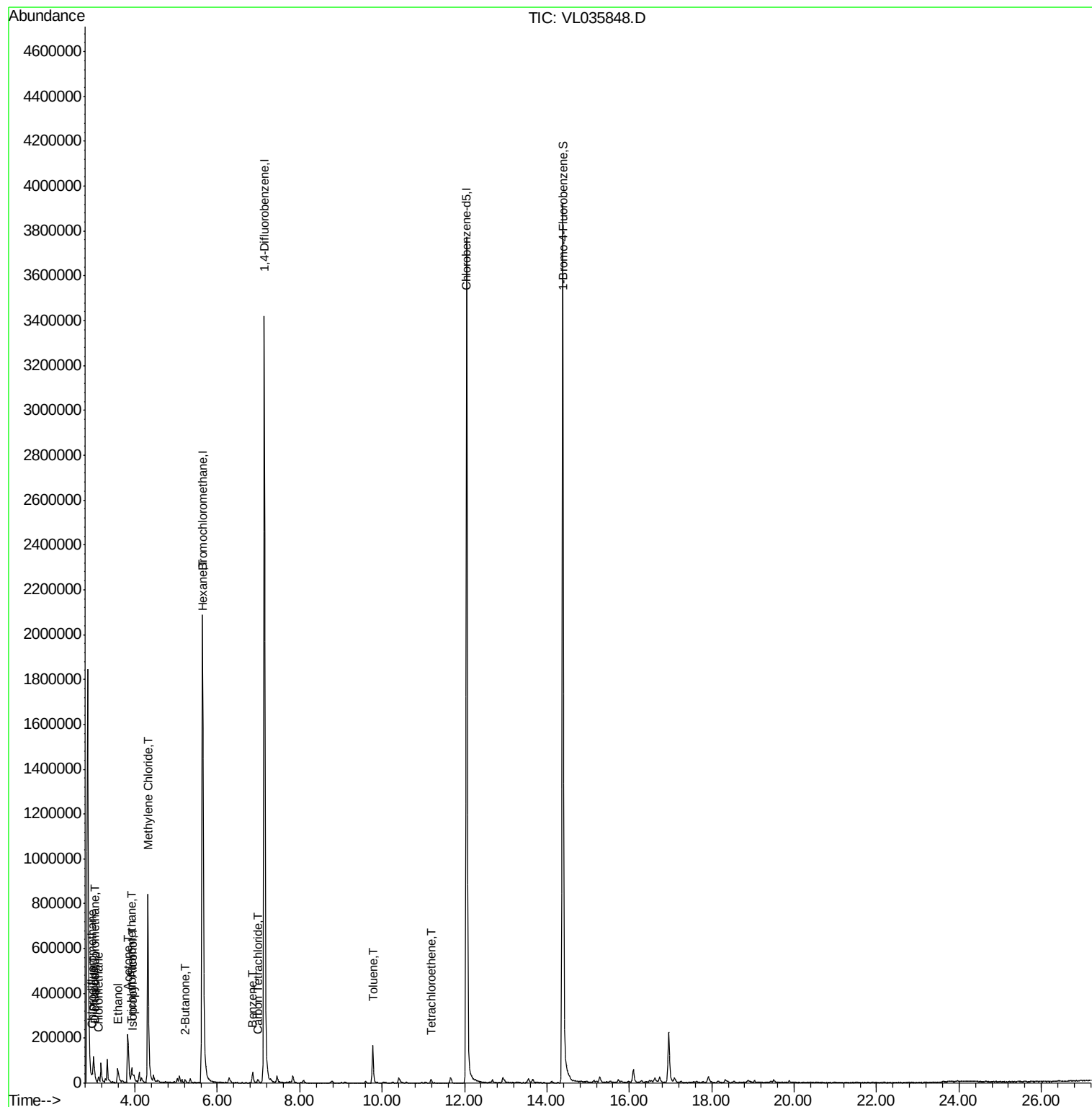
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110420\
Data File : VL035848.D
Acq On : 5 Nov 2020 1:20
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

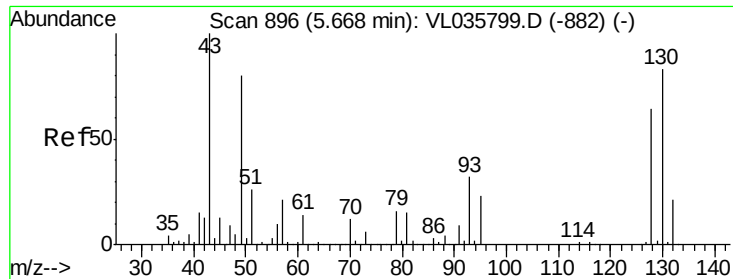
Instrument :
MSVOA_L
ClientSampleId :
IA3

Manual Integrations
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Quant Time: Nov 05 05:20:22 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





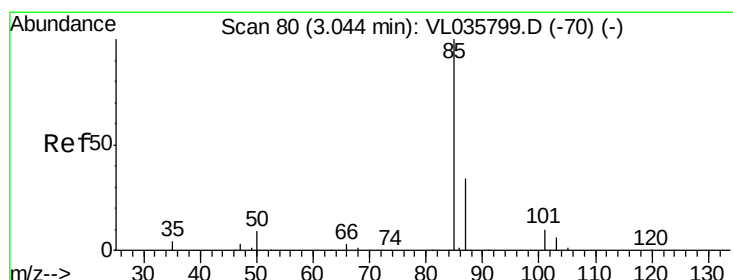
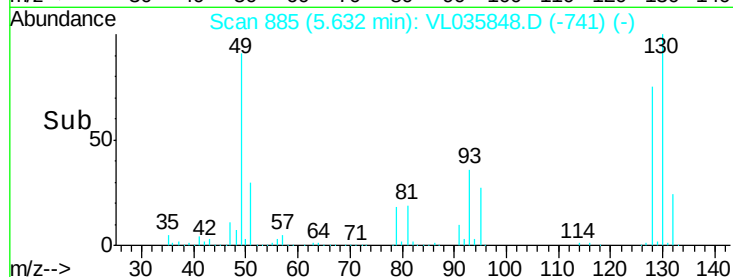
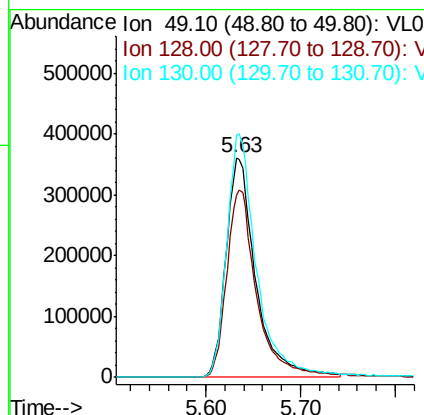
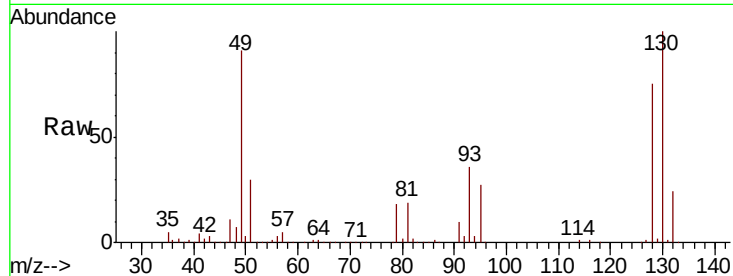
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.63 min Scan# 885
Delta R.T. -0.04 min
Lab File: VL035848.D
Acq: 5 Nov 2020 1:20

Instrument :
MSVOA_L
ClientSampled :
IA3

Tot Ion	Ratio	Lower	Upper
49	100		
128	87.5	41.5	124.6
130	112.5	53.7	161.1

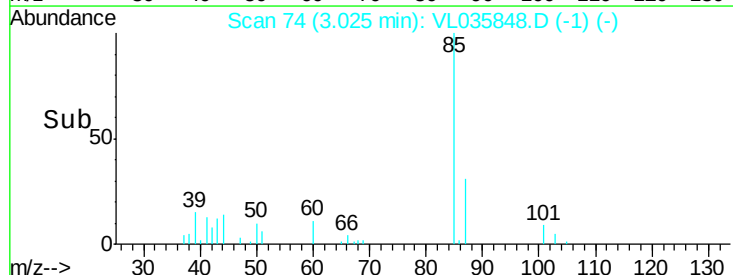
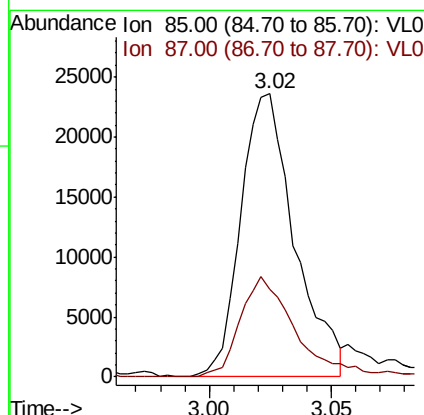
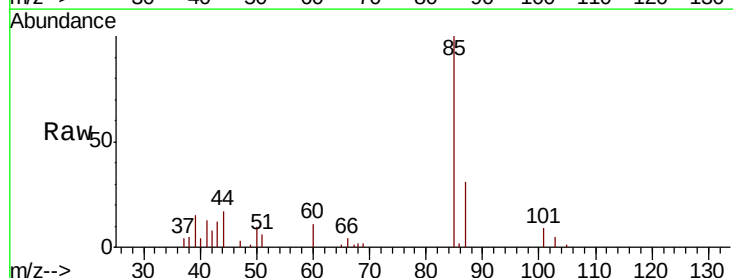
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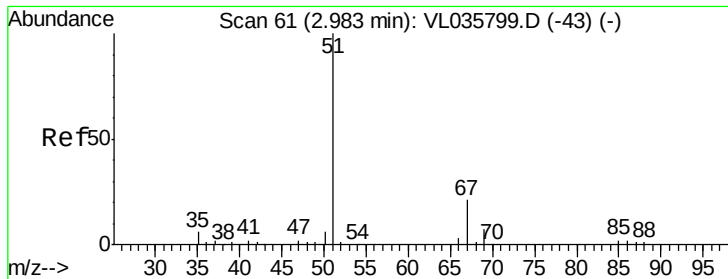
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#2
Dichlorodifluoromethane
Concen: 0.242 ppbv
RT: 3.02 min Scan# 74
Delta R.T. -0.02 min
Lab File: VL035848.D
Acq: 5 Nov 2020 1:20

Tgt Ion	Ratio	Lower	Upper
85	100		
87	30.9	27.1	40.7





#3

Chlorodifluoromethane

Concen: 0.431 ppbv m

RT: 2.96 min Scan# 54

Delta R.T. -0.02 min

Lab File: VL035848.D

Acq: 5 Nov 2020 1:20

Instrument :

MSVOA_L

ClientSampled :

IA3

Tot Ion: 51 Resp: 40919

Ion Ratio Lower Upper

51 100

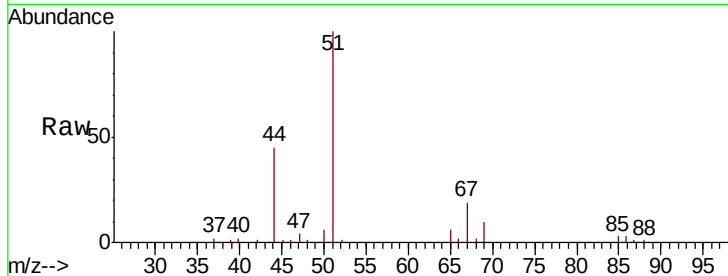
67 19.7 17.0 25.4

Manual Integrations

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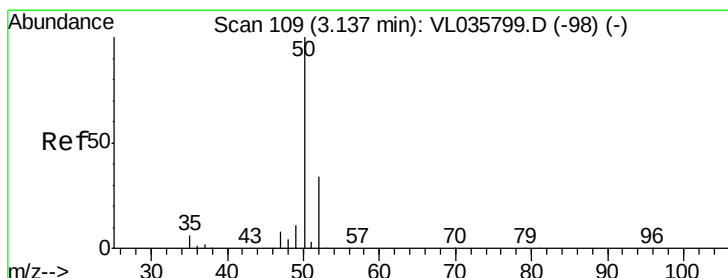
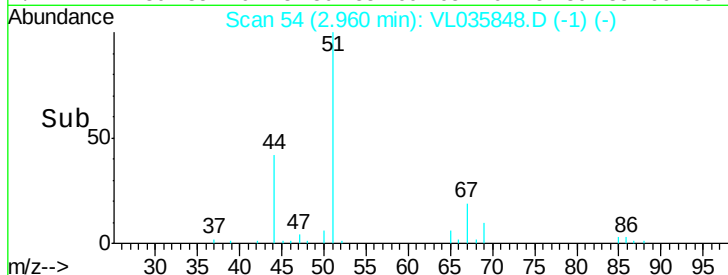
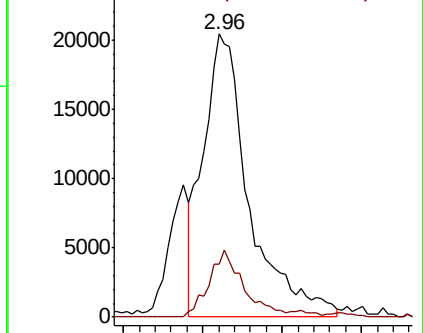
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.518 ppbv m

RT: 3.11 min Scan# 102

Delta R.T. -0.02 min

Lab File: VL035848.D

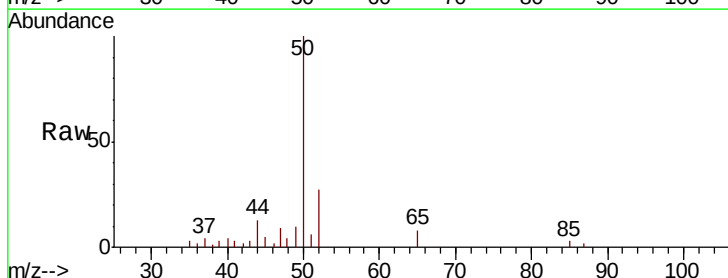
Acq: 5 Nov 2020 1:20

Tgt Ion: 50 Resp: 23889

Ion Ratio Lower Upper

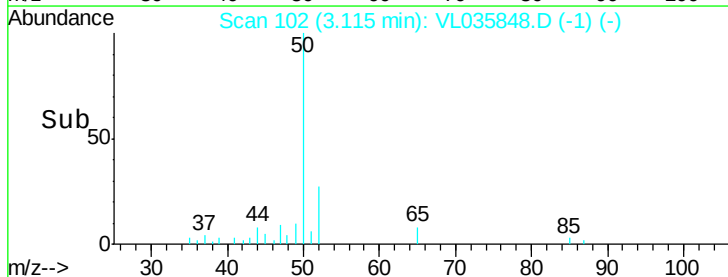
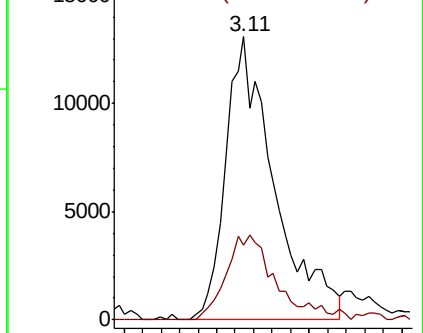
50 100

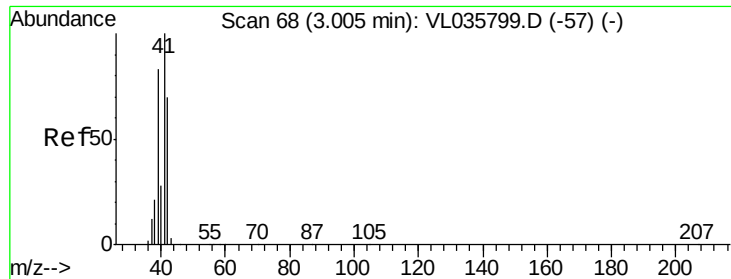
52 26.5 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.974 ppbv m

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL035848.D

Acq: 5 Nov 2020 1:20

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tot Ion: 41 Resp: 33836

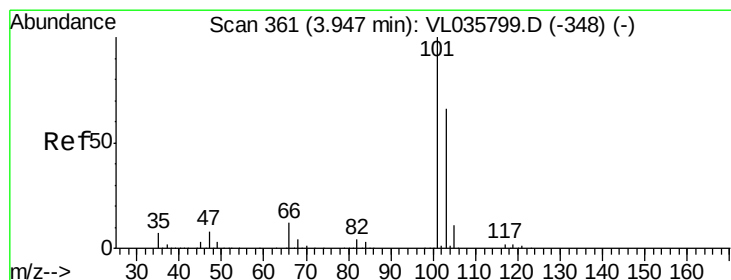
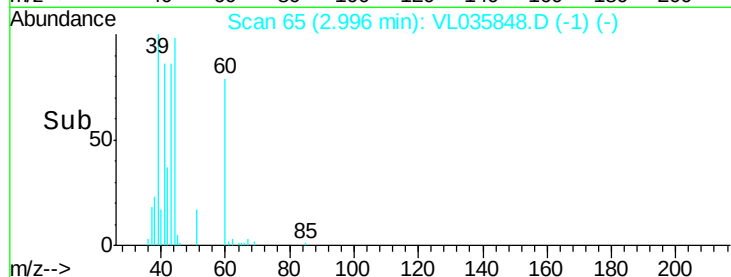
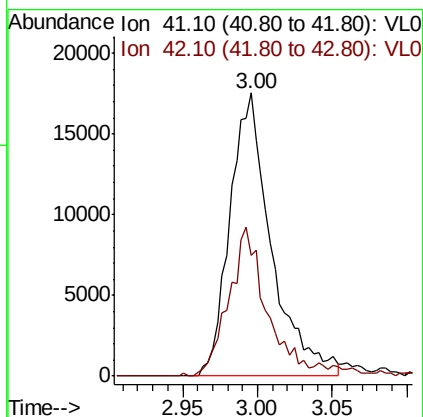
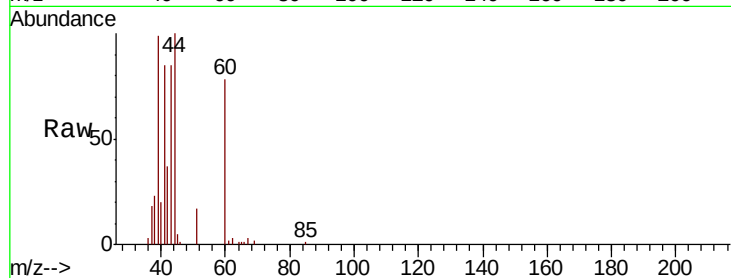
Ion Ratio Lower Upper

41 100

42 56.8 56.2 84.4

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#11

Trichlorofluoromethane

Concen: 0.261 ppbv

RT: 3.92 min Scan# 353

Delta R.T. -0.03 min

Lab File: VL035848.D

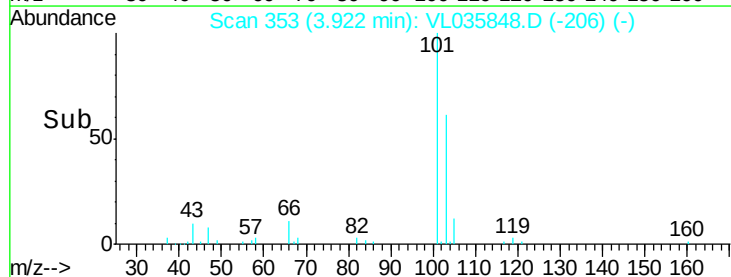
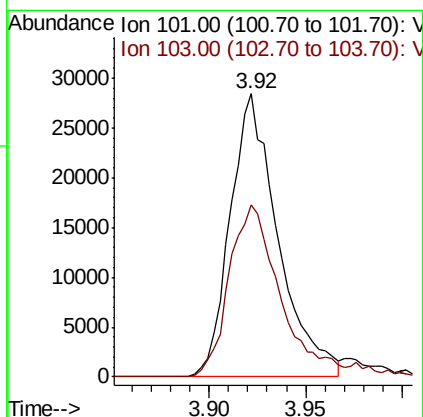
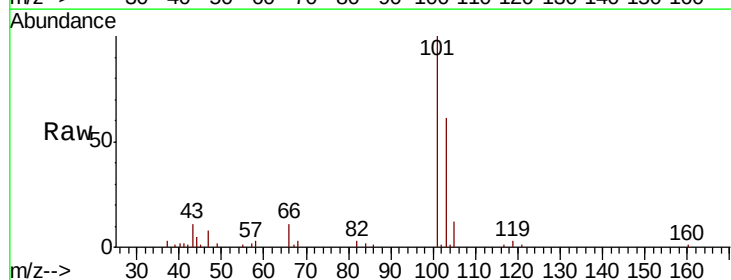
Acq: 5 Nov 2020 1:20

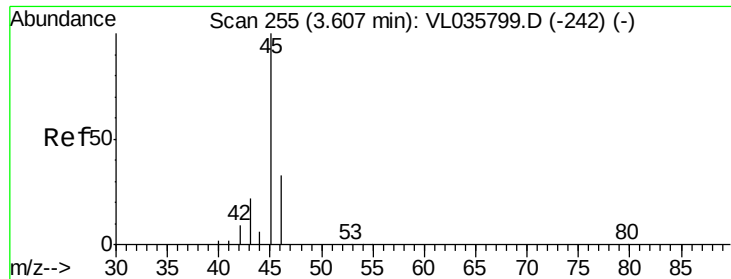
Tgt Ion: 101 Resp: 48959

Ion Ratio Lower Upper

101 100

103 60.6 53.0 79.4





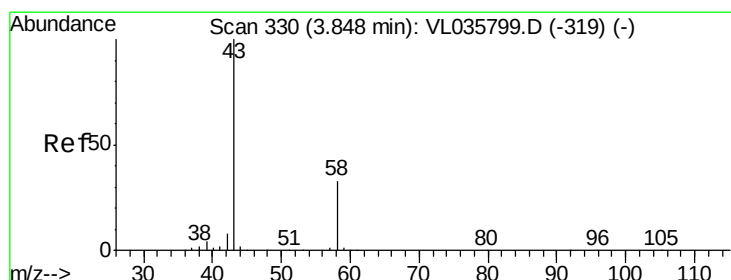
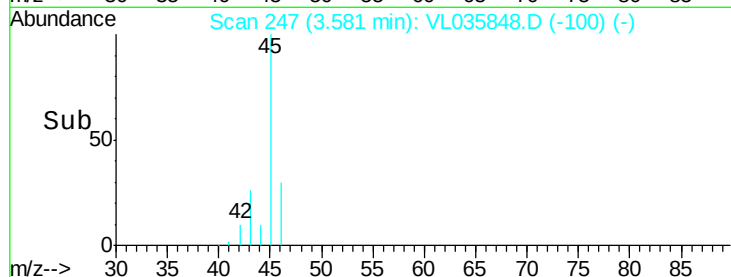
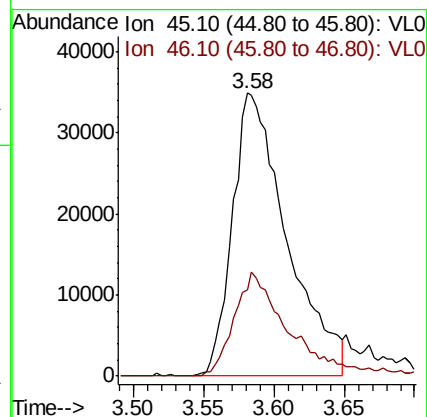
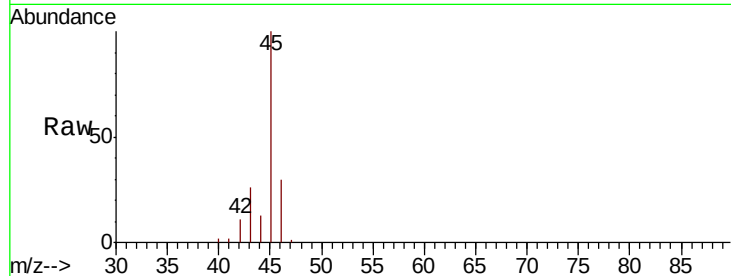
#13
Ethanol
Concen: 12.506 ppbv
RT: 3.58 min Scan# 247
Delta R.T. -0.03 min
Lab File: VL035848.D
Acq: 5 Nov 2020 1:20

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.1	16.1	64.5

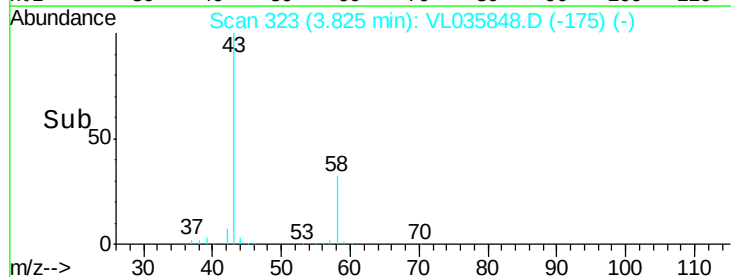
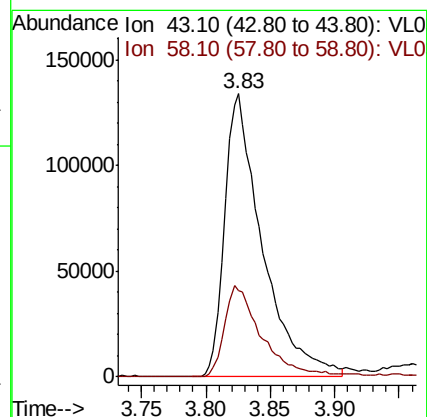
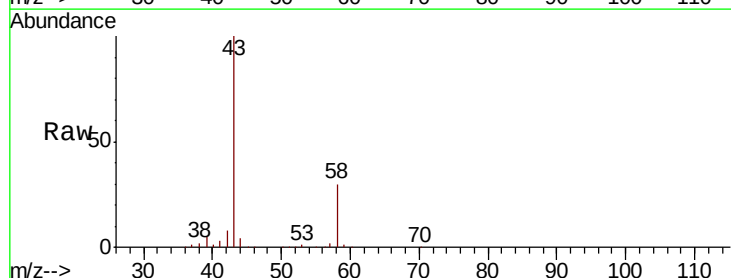
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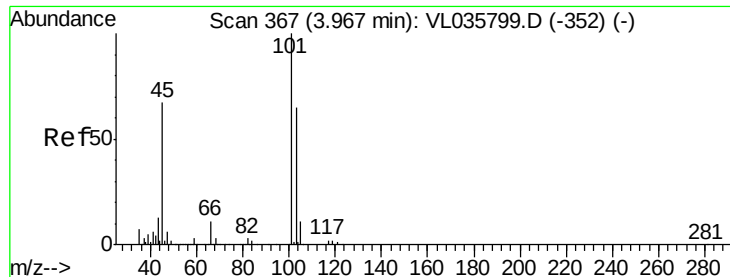
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#15
Acetone
Concen: 3.195 ppbv
RT: 3.83 min Scan# 323
Delta R.T. -0.02 min
Lab File: VL035848.D
Acq: 5 Nov 2020 1:20

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.3	27.5	41.3





#19

Isopropyl Alcohol

Concen: 0.778 ppbv m

RT: 3.95 min Scan# 363

Delta R.T. -0.01 min

Lab File: VL035848.D

Acq: 5 Nov 2020 1:20

Instrument :

MSVOA_L

ClientSampled :

IA3

Tot Ion: 45 Resp: 40520

Ion Ratio Lower Upper

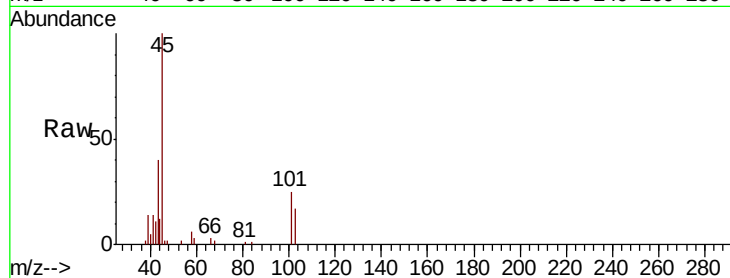
45 100

58 0.0 2.6 3.8#

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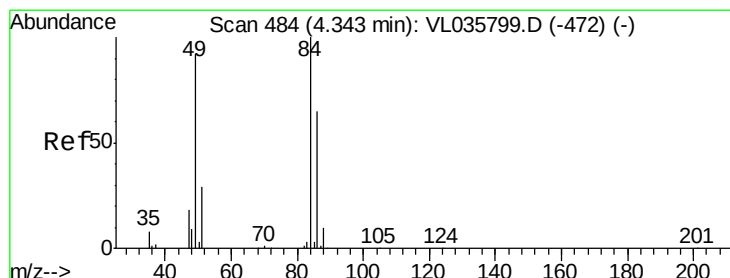
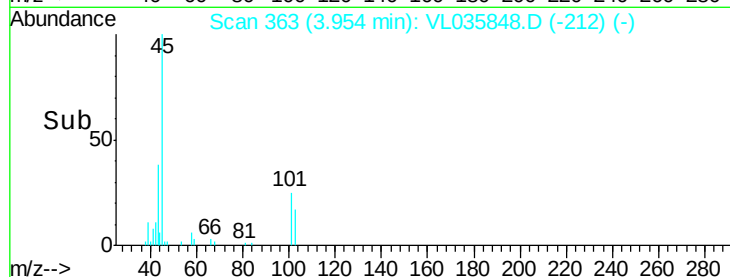
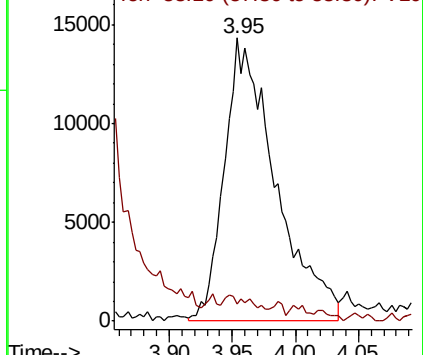
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 7.820 ppbv

RT: 4.31 min Scan# 475

Delta R.T. -0.03 min

Lab File: VL035848.D

Acq: 5 Nov 2020 1:20

Tgt Ion: 84 Resp: 466384

Ion Ratio Lower Upper

84 100

49 92.2 73.8 110.8

51 29.7 23.0 34.4

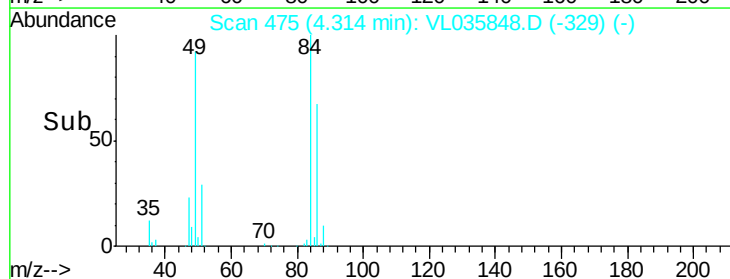
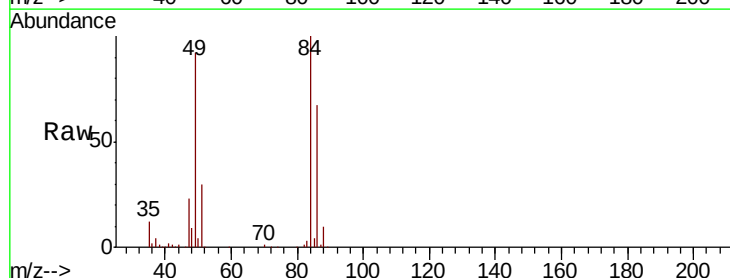
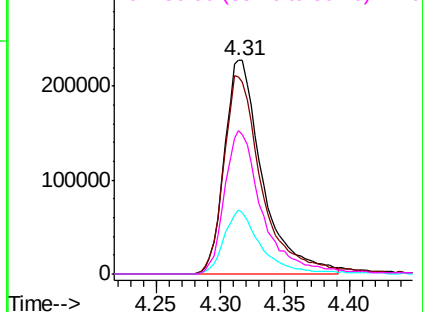
86 67.2 52.1 78.1

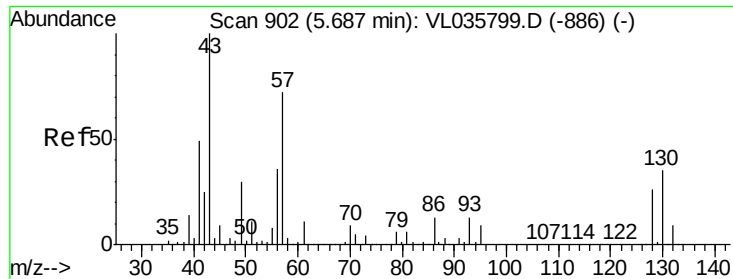
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





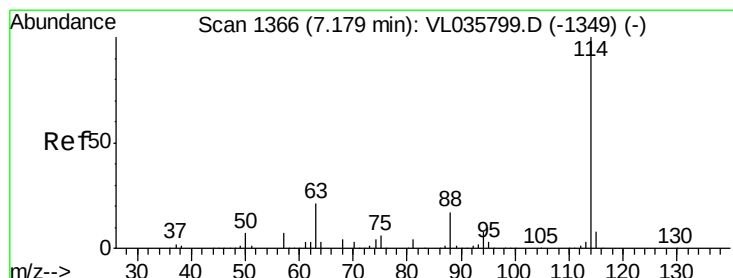
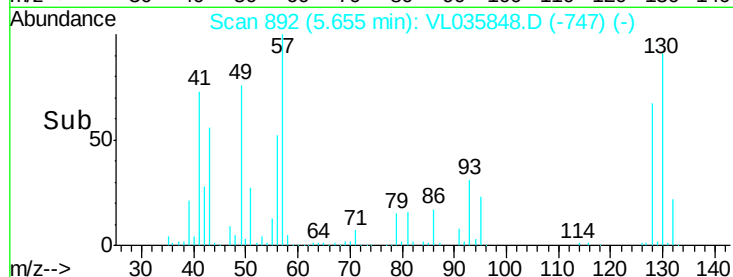
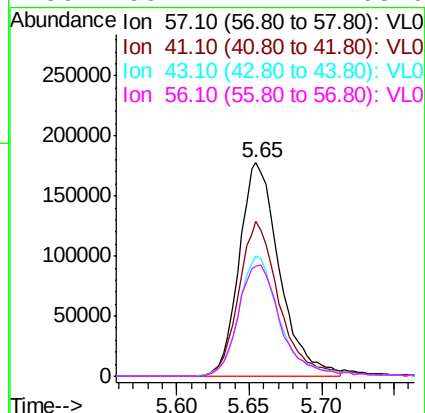
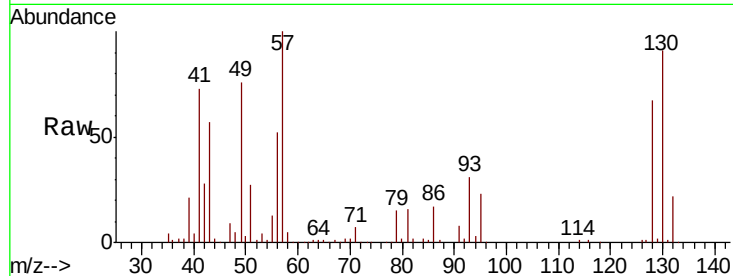
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Hexane
Concen: 3.734 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.03 min
Lab File: VL035848.D
Acq: 5 Nov 2020 1:20

Instrument :
MSVOA_L
ClientSampled :
IA3

Tot Ion: 57 Resp: 343684
Ion Ratio Lower Upper
57 100
41 74.1 58.9 88.3
43 57.9 150.2 225.2#
56 55.7 42.4 63.6

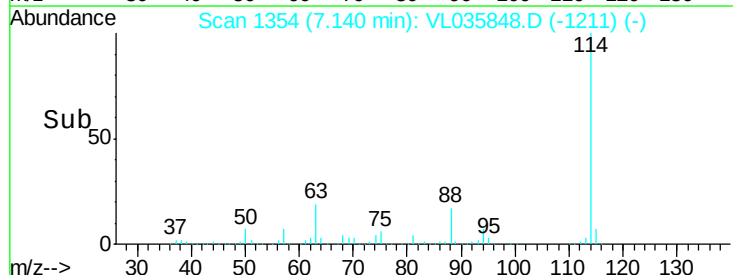
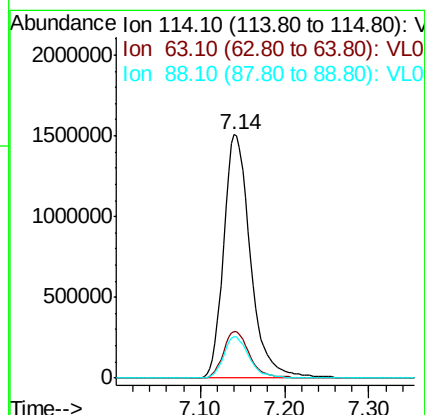
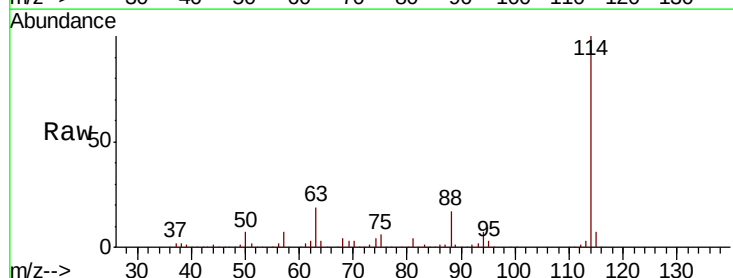
Manual Integrations
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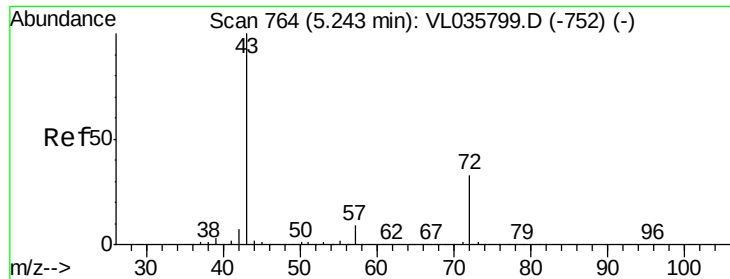
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.14 min Scan# 1354
Delta R.T. -0.04 min
Lab File: VL035848.D
Acq: 5 Nov 2020 1:20

Tgt Ion: 114 Resp: 3323756
Ion Ratio Lower Upper
114 100
63 18.9 16.1 24.1
88 16.6 13.7 20.5





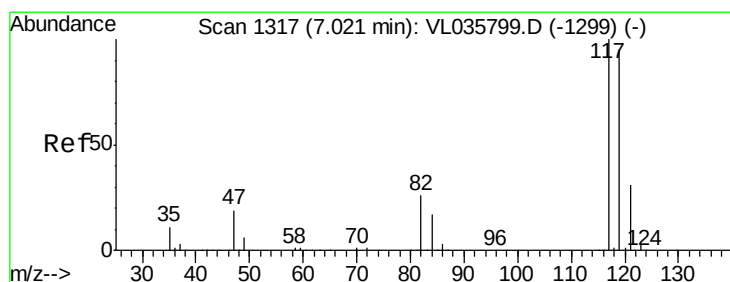
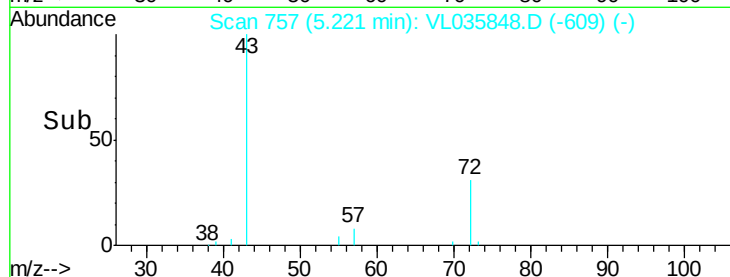
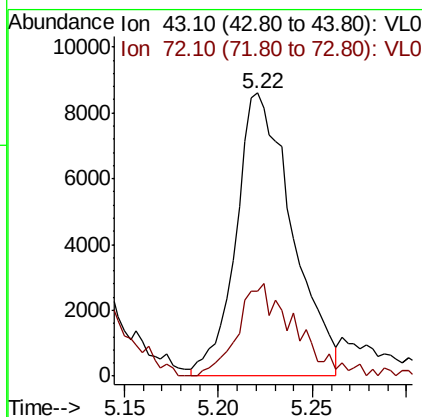
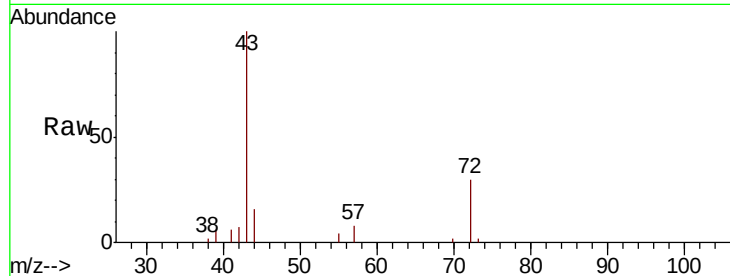
#34
2-Butanone
Concen: 0.166 ppbv m
RT: 5.22 min Scan# 757
Delta R.T. -0.02 min
Lab File: VL035848.D
Acq: 5 Nov 2020 1:20

Instrument :
MSVOA_L
ClientSampled :
IA3

Tot Ion: 43 Resp: 17919
Ion Ratio Lower Upper
43 100
72 33.0 26.5 39.7

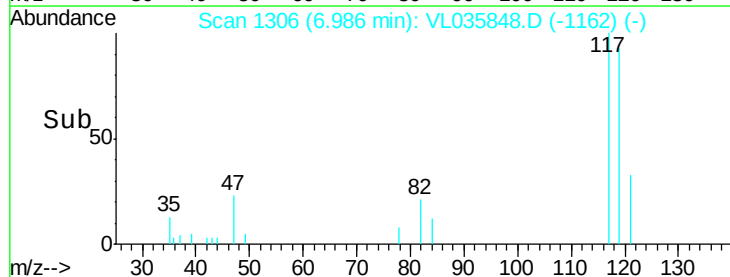
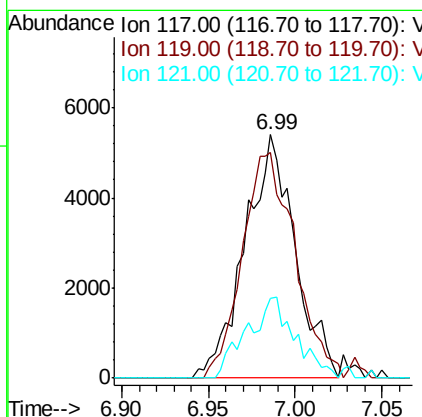
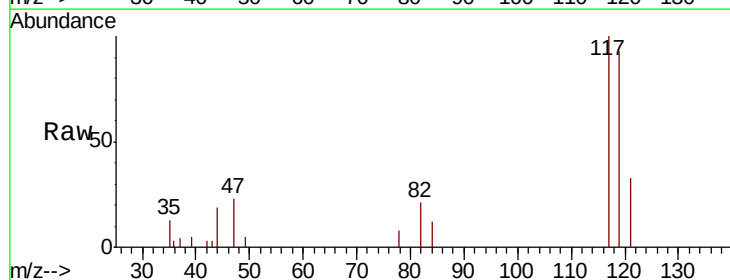
Manual Integrations
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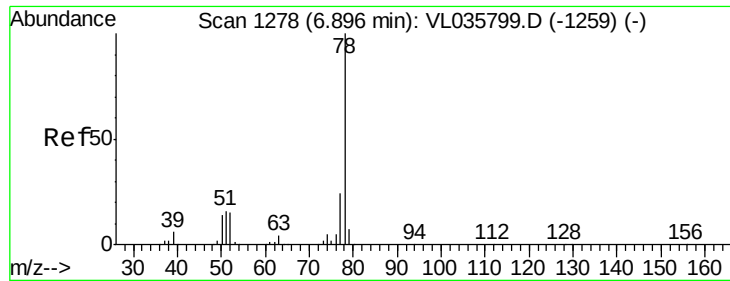
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#35
Carbon Tetrachloride
Concen: 0.061 ppbv m
RT: 6.99 min Scan# 1306
Delta R.T. -0.04 min
Lab File: VL035848.D
Acq: 5 Nov 2020 1:20

Tgt Ion: 117 Resp: 10872
Ion Ratio Lower Upper
117 100
119 92.8 75.6 113.4
121 32.7 25.1 37.7





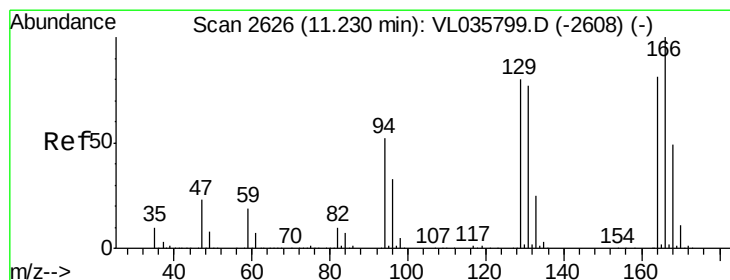
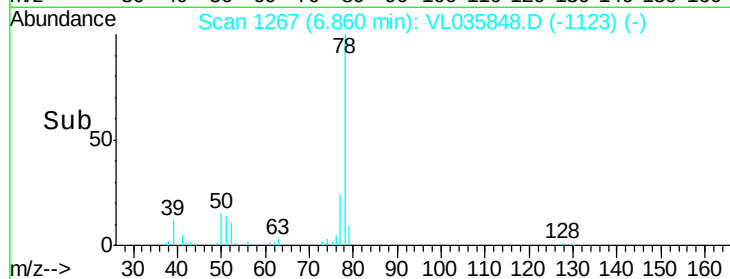
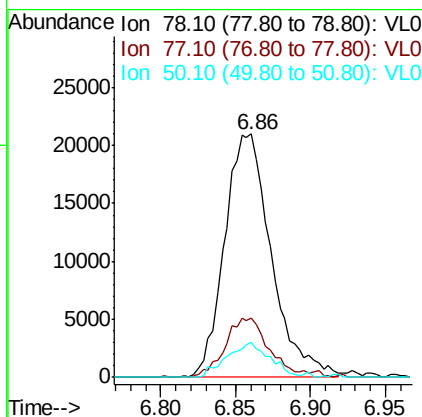
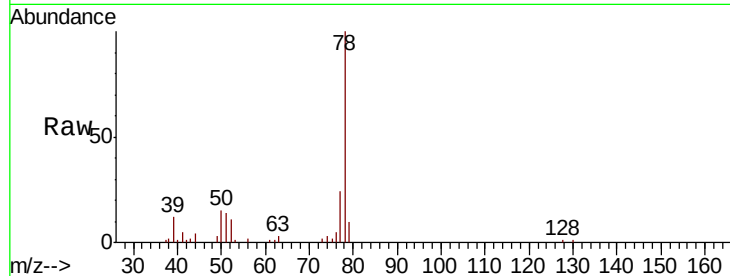
#36
Benzene
Concen: 0.185 ppbv
RT: 6.86 min Scan# 1267
Delta R.T. -0.04 min
Lab File: VL035848.D
Acq: 5 Nov 2020 1:20

Instrument :
MSVOA_L
ClientSampled :
IA3

Tot Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.3	28.9
50	14.5	11.4	17.2

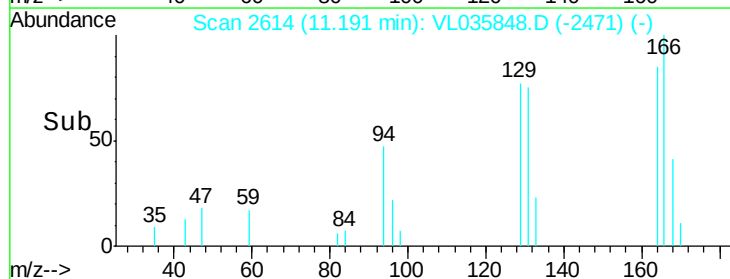
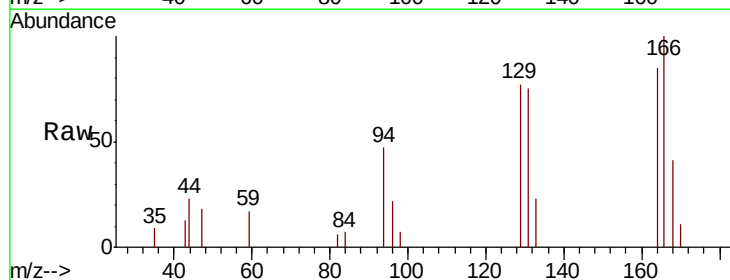
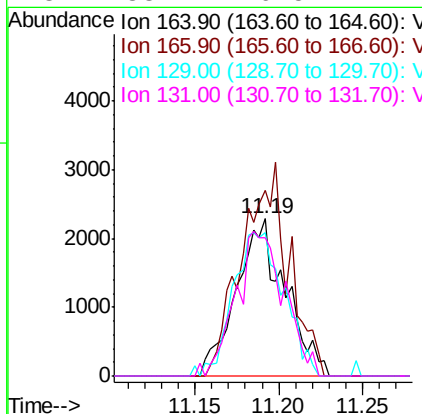
Manual Integrations
APPROVED

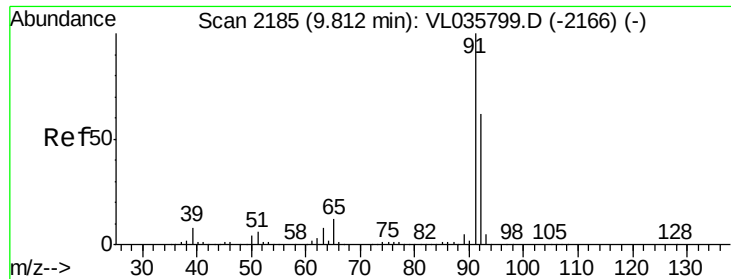
MMDadoda
11/5/2020 2:17:53 PM



#52
Tetrachloroethene
Concen: 0.039 ppbv m
RT: 11.19 min Scan# 2614
Delta R.T. -0.04 min
Lab File: VL035848.D
Acq: 5 Nov 2020 1:20

Tgt Ion	Ratio	Lower	Upper
164	100		
166	118.2	99.3	148.9
129	91.6	79.3	118.9
131	88.1	76.5	114.7





#53

Toluene

Concen: 0.492 ppbv

RT: 9.77 min Scan# 2173

Delta R.T. -0.04 min

Lab File: VL035848.D

Acq: 5 Nov 2020 1:20

Instrument :

MSVOA_L

ClientSampled :

IA3

Tot Ion: 91 Resp: 146561

Ion Ratio Lower Upper

91 100

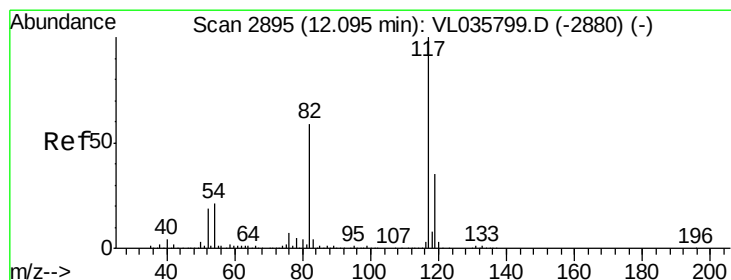
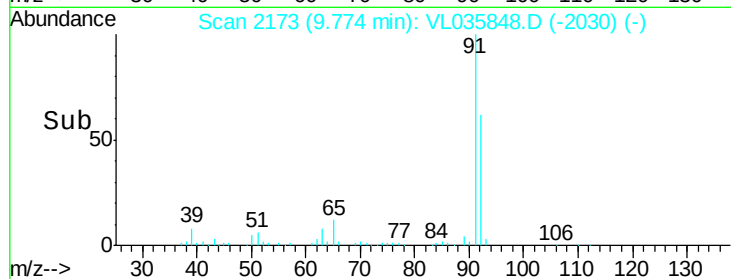
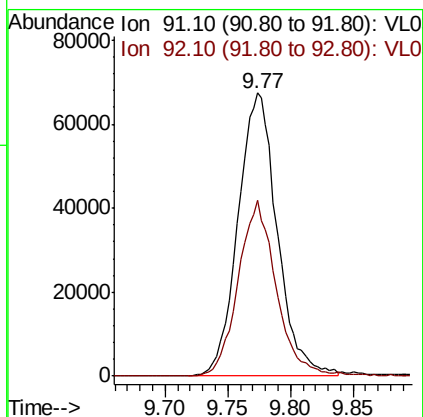
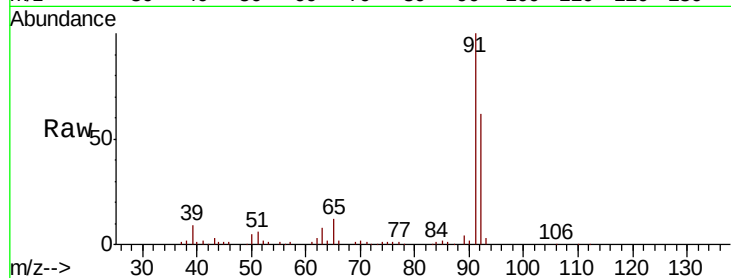
92 60.2 49.8 74.6

Manual Integrations

APPROVED

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11/5/2020 2:17:53 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.05 min Scan# 2882

Delta R.T. -0.04 min

Lab File: VL035848.D

Acq: 5 Nov 2020 1:20

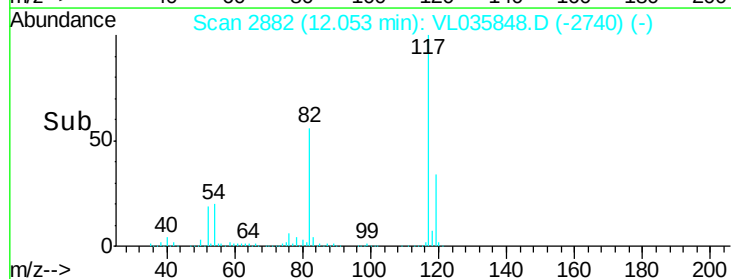
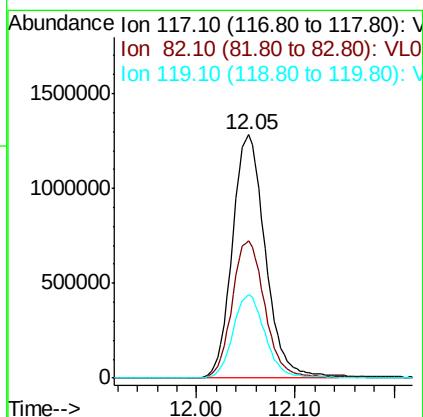
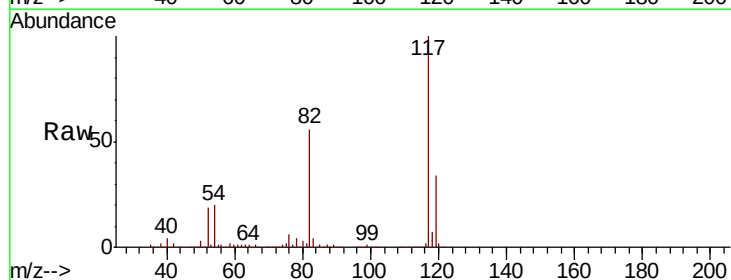
Tgt Ion: 117 Resp: 2993303

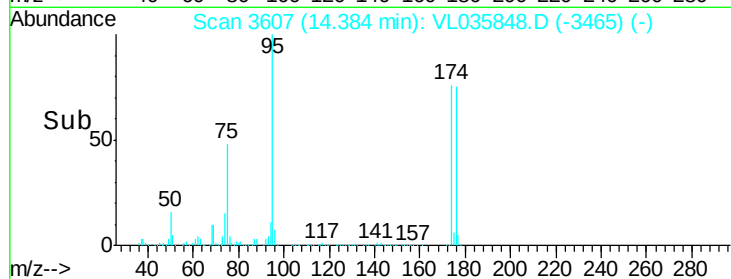
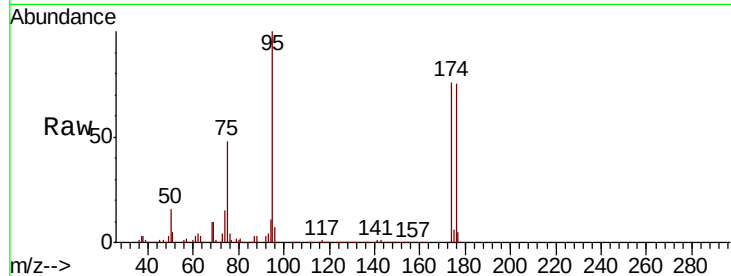
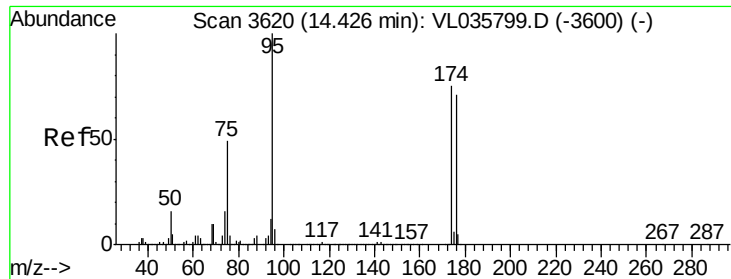
Ion Ratio Lower Upper

117 100

82 57.1 50.6 76.0

119 34.1 52.6 78.8#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.913 ppbv

RT: 14.38 min Scan# 3607

Delta R.T. -0.04 min

Lab File: VL035848.D

Acq: 5 Nov 2020 1:20

Tot Ion: 95 Resp: 2108111

Ion Ratio Lower Upper

95 100

174 79.5 59.8 89.6

175 5.7 4.3 6.5

Instrument :

MSVOA_L

ClientSampleId :

IA3

Manual Integrations

APPROVED

MMDadoda

11/5/2020 2:17:53 PM

