

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110420\
 Data File : VL035838.D
 Acq On : 4 Nov 2020 18:10
 Operator : SY/AP
 Sample : L4610-05 2X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV5

Manual Integrations
 APPROVED

MMDadoda
 11/5/2020 2:17:00 PM

Quant Time: Nov 05 11:26:52 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	5.64	49	1020398	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.14	114	4607203	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.05	117	4198308	10.00	ppbv	-0.04

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.38	95	2966703	9.95	ppbv	-0.04	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	31172	0.162	ppbv	93
3) Chlorodifluoromethane	2.96	51	24637	0.202	ppbv #	85
4) Chloromethane	3.11	50	6382	0.108	ppbv #	88
9) Propene	2.99	41	565248	12.638	ppbv	84
10) Heptane	8.09	43	30240	0.245	ppbv	94
11) Trichlorofluoromethane	3.92	101	27159m	0.113	ppbv	
13) Ethanol	3.59	45	32709m	3.371	ppbv	
15) Acetone	3.82	43	2199191	20.159	ppbv	98
17) tert-Butyl alcohol	4.29	59	22627	0.157	ppbv #	72
20) Methylene Chloride	4.32	84	208326	2.713	ppbv	96
26) Hexane	5.66	57	188532	1.591	ppbv #	44
29) Chloroform	5.72	83	44031	0.189	ppbv	96
34) 2-Butanone	5.22	43	63052	0.422	ppbv #	83
36) Benzene	6.86	78	91826	0.268	ppbv	92
52) Tetrachloroethene	11.19	164	180117	1.110	ppbv	96
53) Toluene	9.77	91	401463	0.971	ppbv	99
58) Ethyl Benzene	12.68	91	173760	0.340	ppbv	94
59) m/p-Xylene	12.94	91	424222	0.981	ppbv	95
60) o-Xylene	13.66	91	169730	0.403	ppbv	100
64) n-propylbenzene	15.54	120	26044	0.136	ppbv #	64
72) 4-Ethyltoluene	15.81	105	62859	0.123	ppbv #	91
74) 1,2,4-Trimethylbenzene	16.73	105	131800	0.263	ppbv #	69

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

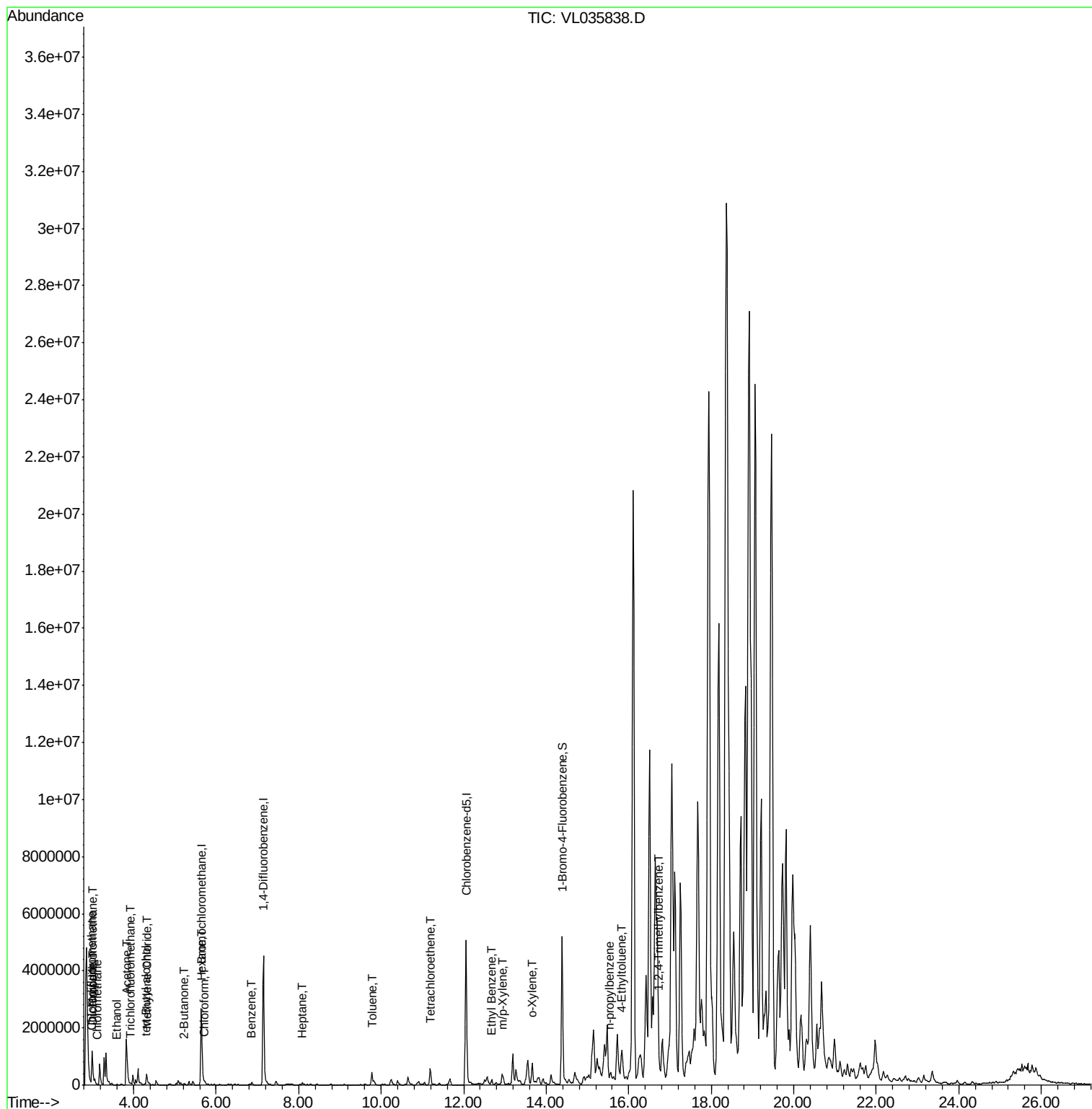
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110420\
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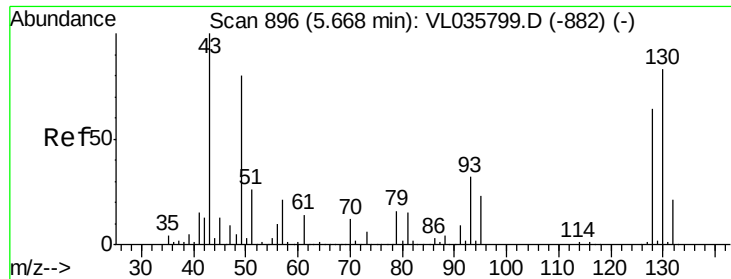
Instrument :
MSVOA_L
ClientSampleId :
SV5

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Quant Time: Nov 05 11:26:52 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: 5.64 min Scan# 886

Delta R.T. -0.03 min

Lab File: VL035838.D

Acq: 4 Nov 2020 18:10

Instrument :

MSVOA_L

ClientSampled :

SV5

Tot Ion: 49 Resp: 1020398

Ion Ratio Lower Upper

49 100

128 91.1 41.5 124.6

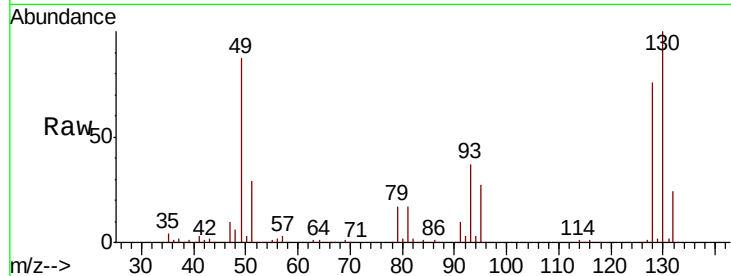
130 116.1 53.7 161.1

Manual Integrations

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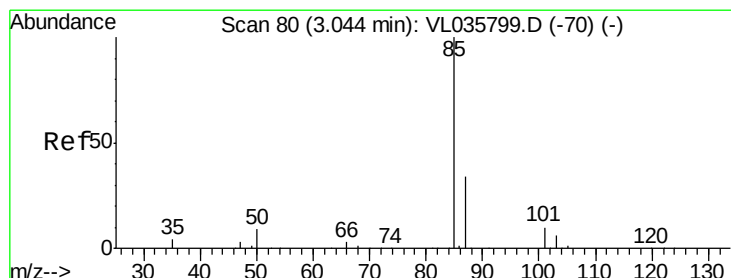
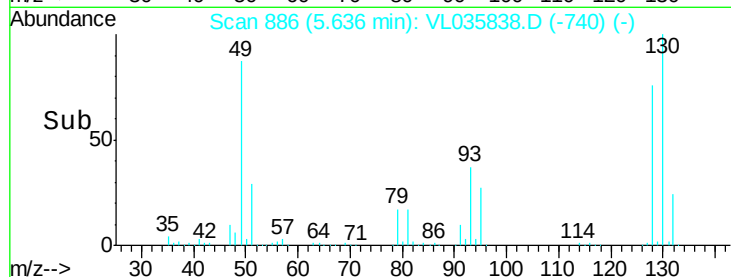
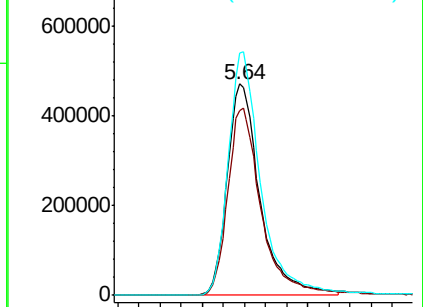
11/5/2020 2:17:00 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.162 ppbv

RT: 3.02 min Scan# 73

Delta R.T. -0.02 min

Lab File: VL035838.D

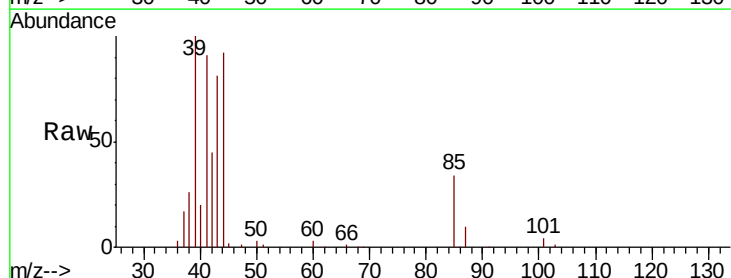
Acq: 4 Nov 2020 18:10

Tgt Ion: 85 Resp: 31172

Ion Ratio Lower Upper

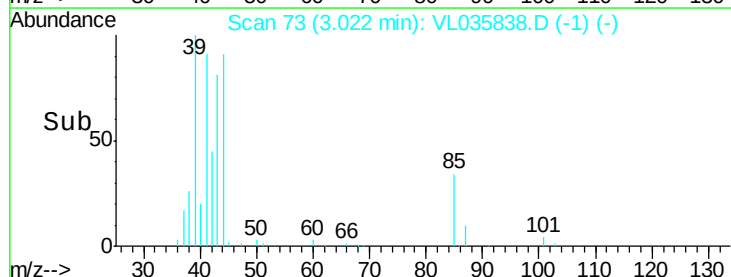
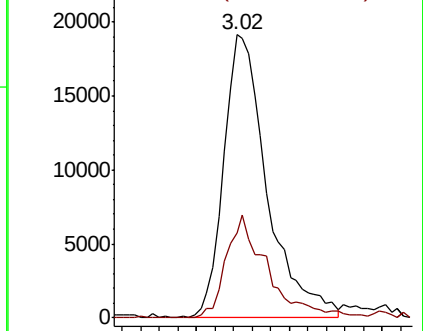
85 100

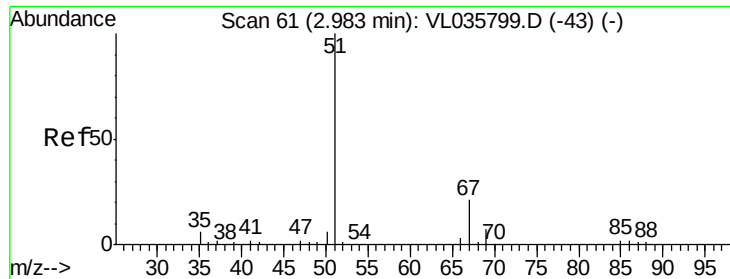
87 30.0 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.202 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL035838.D

Acq: 4 Nov 2020 18:10

Instrument :

MSVOA_L

ClientSampleId :

SV5

Tot Ion: 51 Resp: 24637

Ion Ratio Lower Upper

51 100

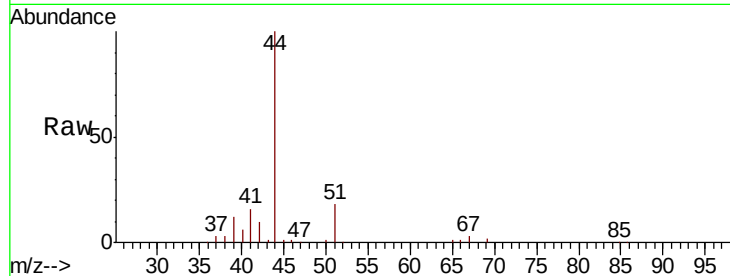
67 14.2 17.0 25.4#

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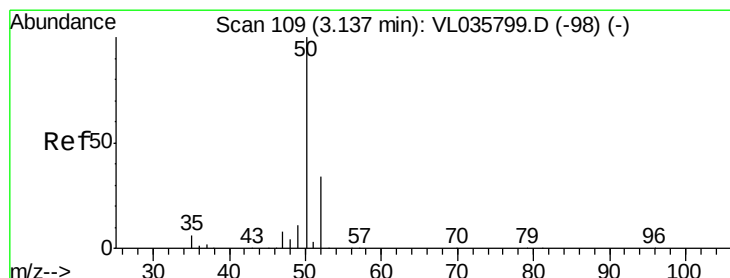
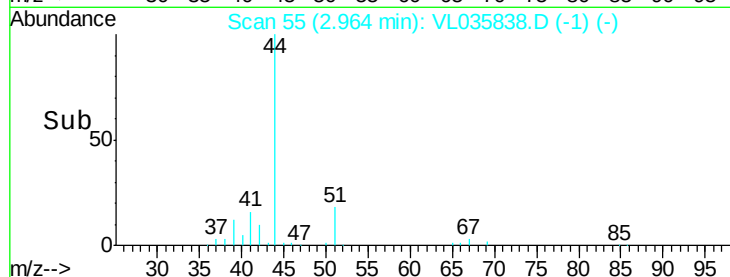
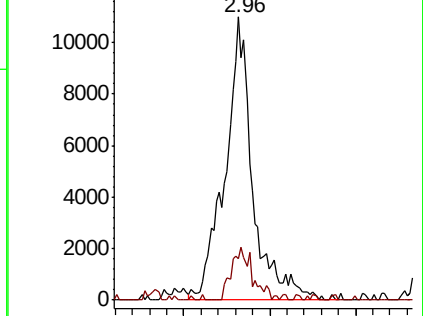
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.108 ppbv

RT: 3.11 min Scan# 102

Delta R.T. -0.02 min

Lab File: VL035838.D

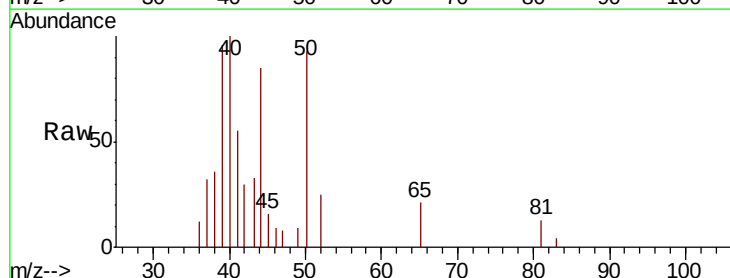
Acq: 4 Nov 2020 18:10

Tgt Ion: 50 Resp: 6382

Ion Ratio Lower Upper

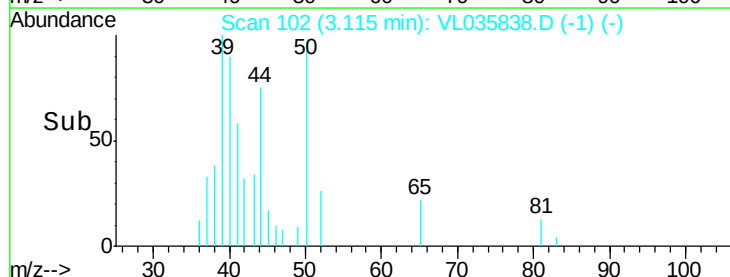
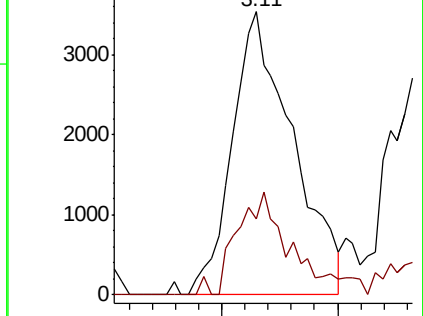
50 100

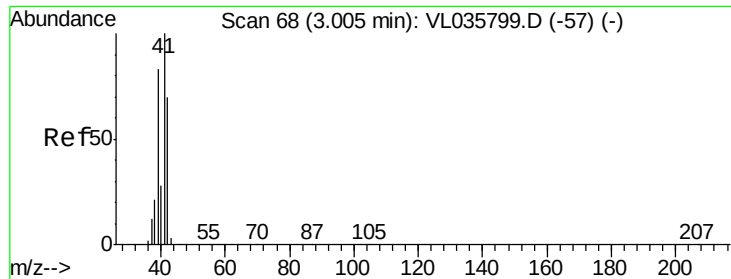
52 26.8 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 12.638 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.01 min

Lab File: VL035838.D

Acq: 4 Nov 2020 18:10

Instrument :

MSVOA_L

ClientSampled :

SV5

Tot Ion: 41 Resp: 565248

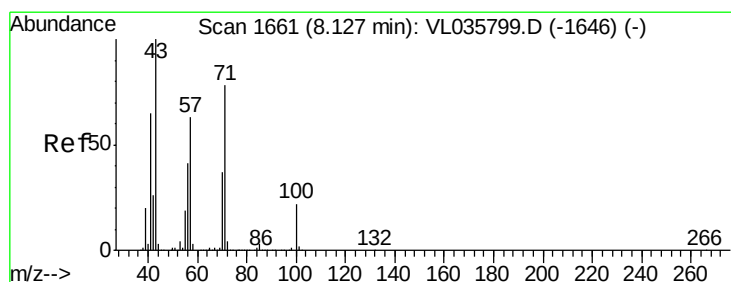
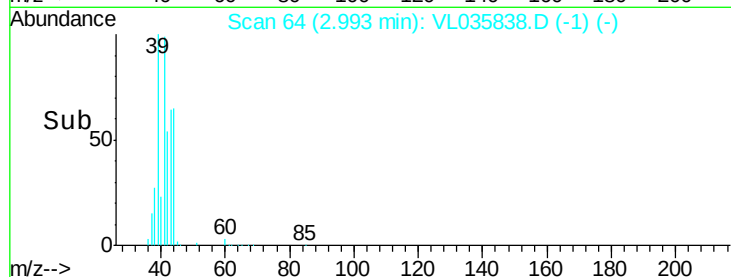
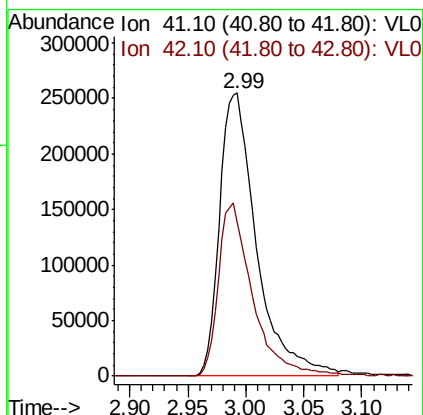
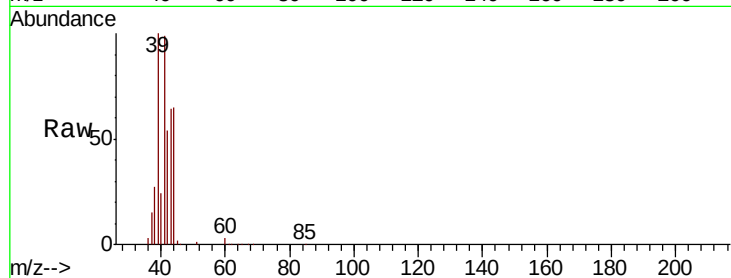
Ion Ratio Lower Upper

41 100

42 56.9 56.2 84.4

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#10

Heptane

Concen: 0.245 ppbv

RT: 8.09 min Scan# 1650

Delta R.T. -0.04 min

Lab File: VL035838.D

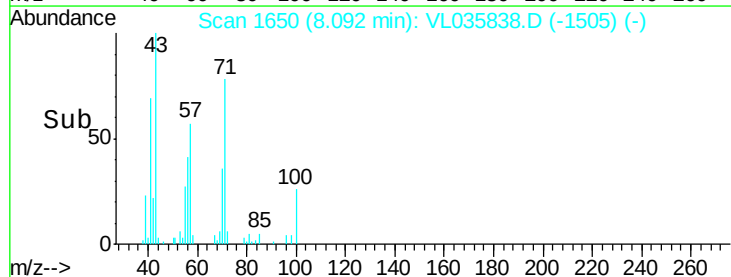
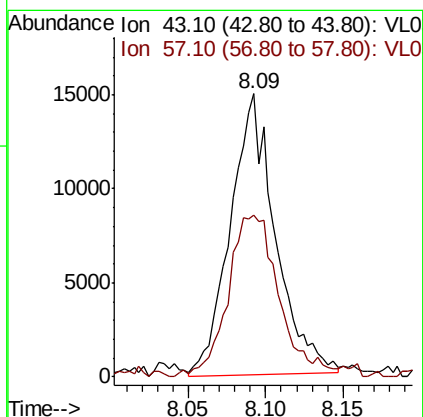
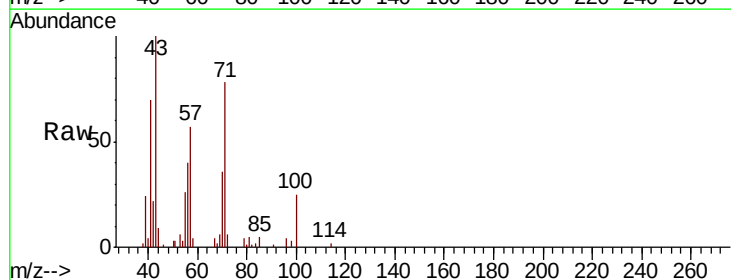
Acq: 4 Nov 2020 18:10

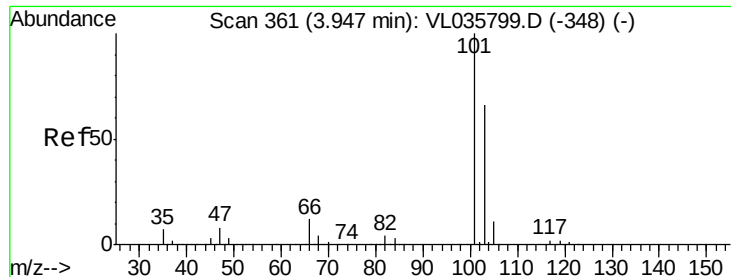
Tgt Ion: 43 Resp: 30240

Ion Ratio Lower Upper

43 100

57 67.2 50.0 75.0





#11

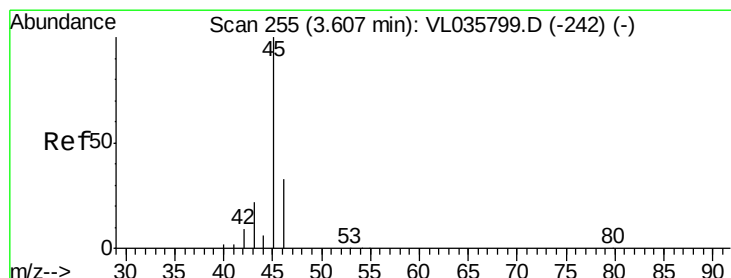
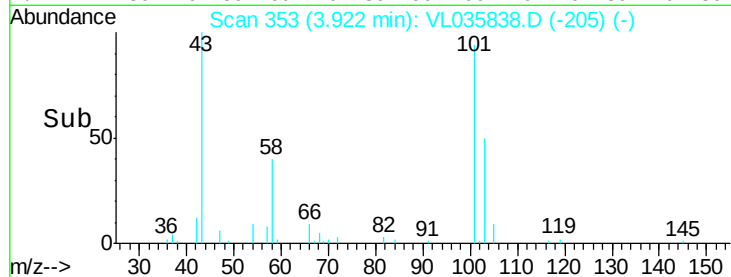
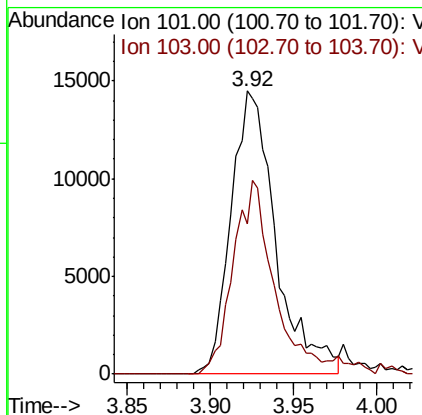
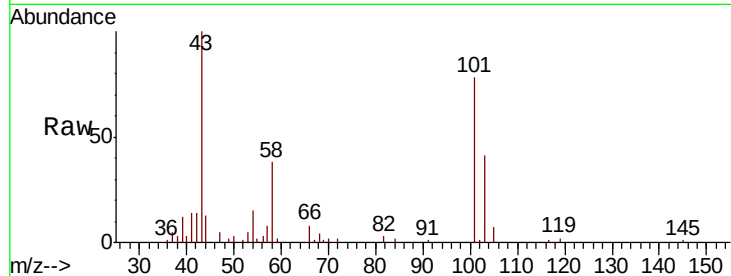
Trichlorofluoromethane
 Concen: 0.113 ppbv m
 RT: 3.92 min Scan# 353
 Delta R.T. -0.03 min
 Lab File: VL035838.D
 Acq: 4 Nov 2020 18:10

Instrument :
 MSVOA_L
 ClientSampled :
 SV5

Tot Ion	Ratio	Lower	Upper
101	100		
103	53.0	53.0	79.4

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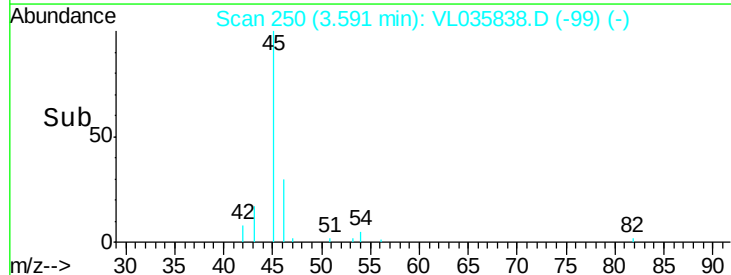
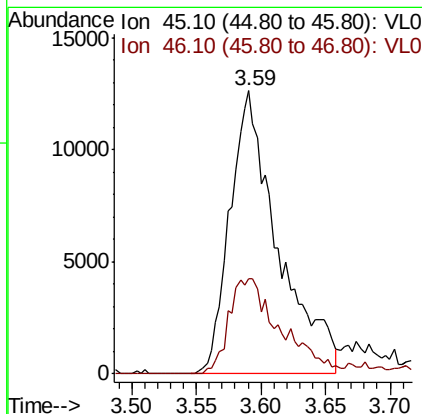
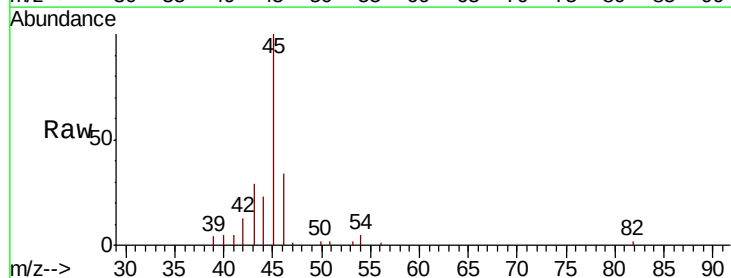
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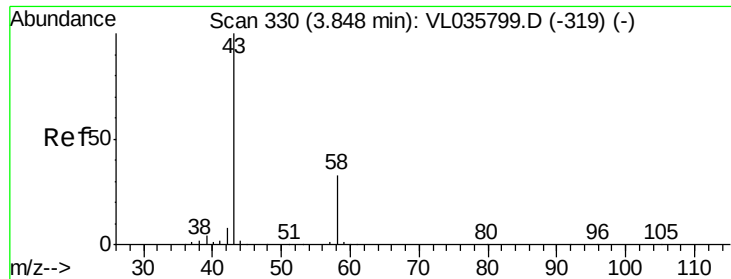


#13

Ethanol
 Concen: 3.371 ppbv m
 RT: 3.59 min Scan# 250
 Delta R.T. -0.02 min
 Lab File: VL035838.D
 Acq: 4 Nov 2020 18:10

Tgt Ion	Ratio	Lower	Upper
45	100		
46	39.5	16.1	64.5





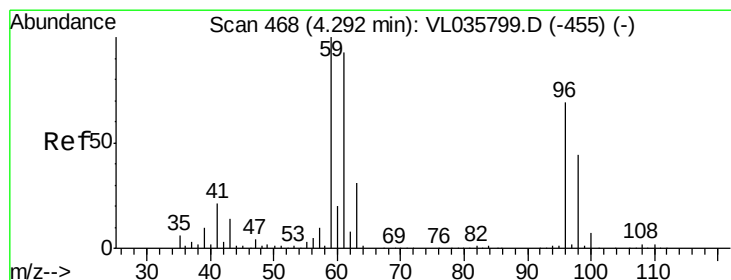
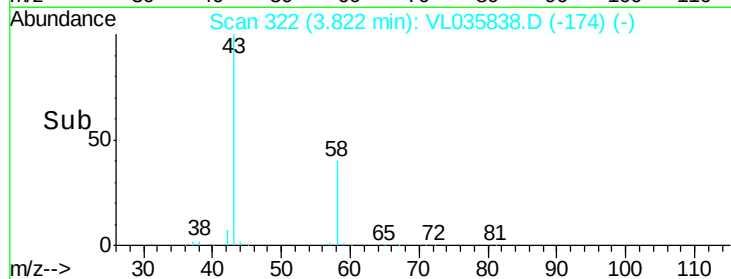
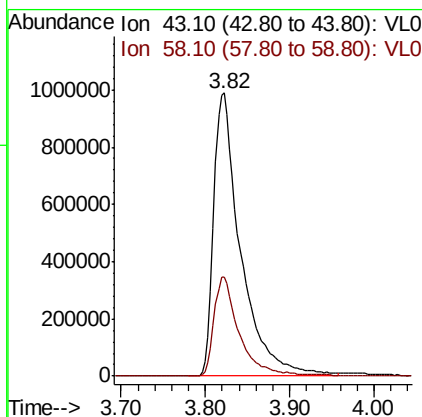
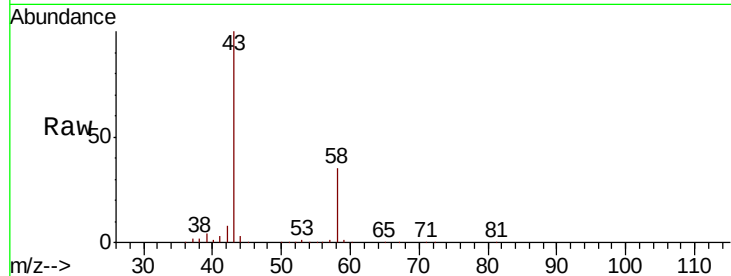
#15
Acetone
Concen: 20.159 ppbv
RT: 3.82 min Scan# 322
Delta R.T. -0.03 min
Lab File: VL035838.D
Acq: 4 Nov 2020 18:10

Instrument :
MSVOA_L
ClientSampled :
SV5

Tot Ion: 43 Resp: 2199191
Ion Ratio Lower Upper
43 100
58 33.1 27.5 41.3

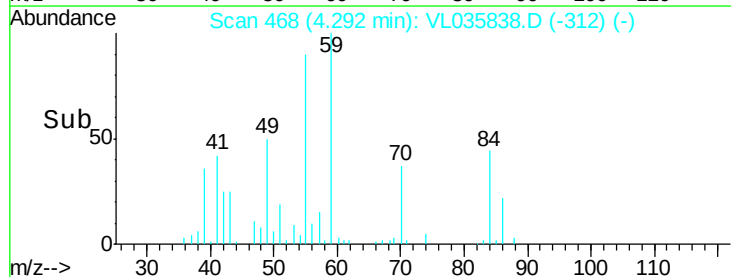
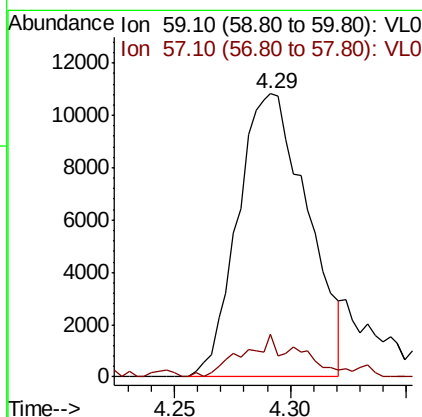
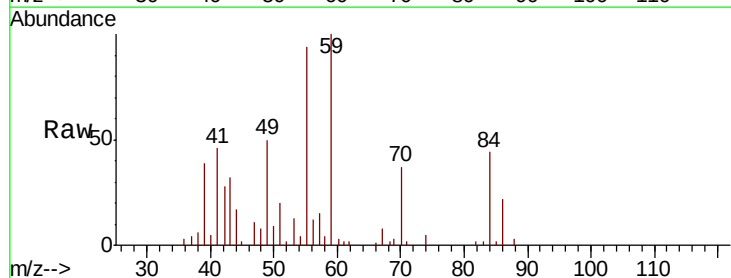
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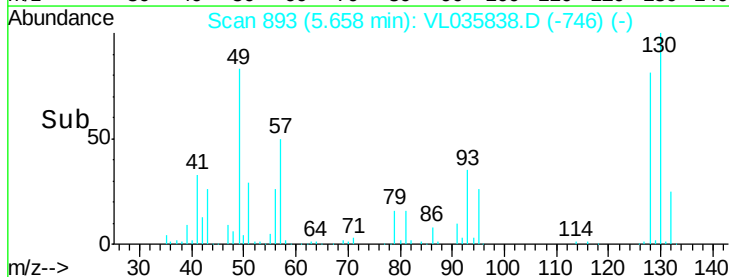
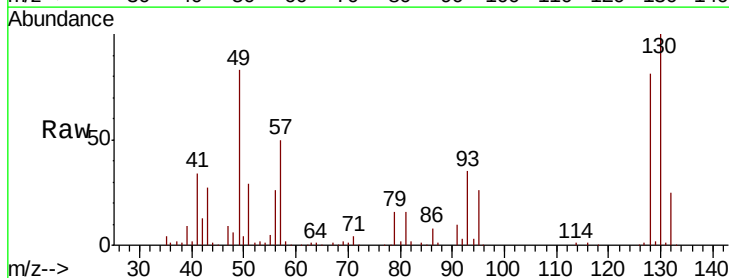
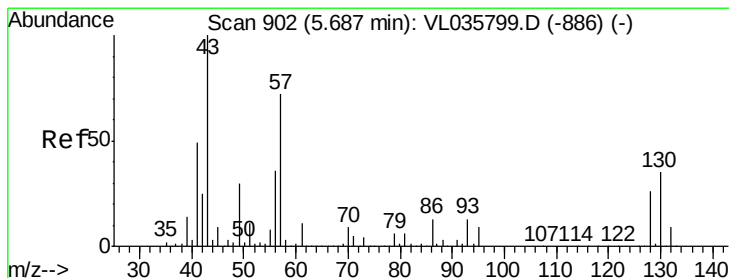
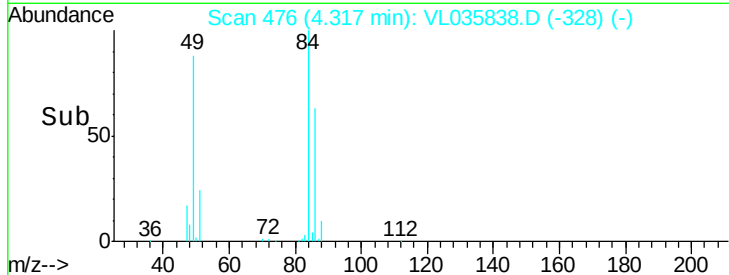
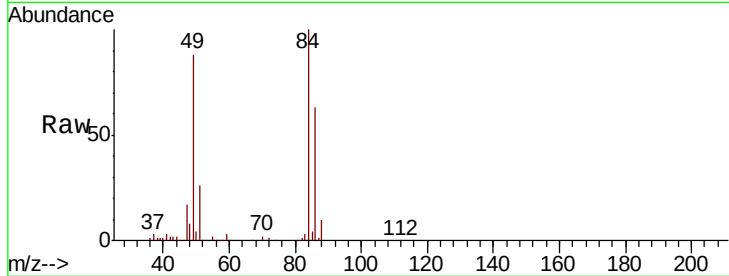
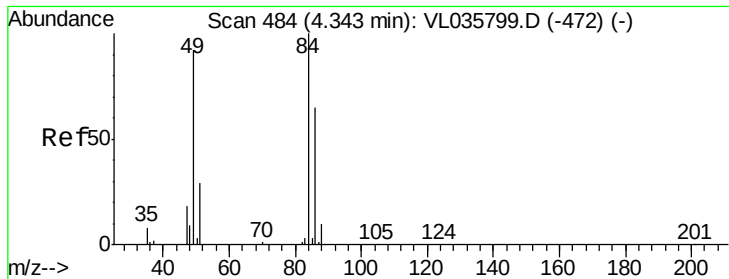
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#17
tert-Butyl alcohol
Concen: 0.157 ppbv
RT: 4.29 min Scan# 468
Delta R.T. 0.00 min
Lab File: VL035838.D
Acq: 4 Nov 2020 18:10

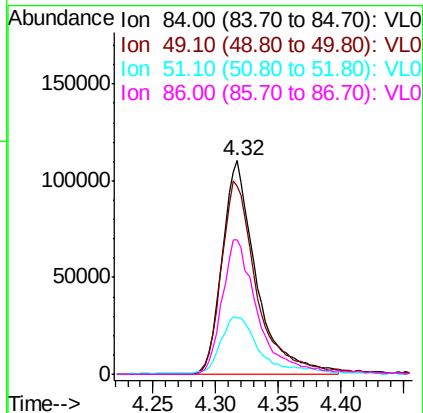
Tgt Ion: 59 Resp: 22627
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#20
Methvlene Chloride
Concen: 2.713 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.03 min
Lab File: VL035838.D
Acq: 4 Nov 2020 18:10

Tot Ion	84	Resp	208326
Ion Ratio	Lower	Upper	
84	100		
49	87.6	73.8	110.8
51	25.4	23.0	34.4
86	63.1	52.1	78.1



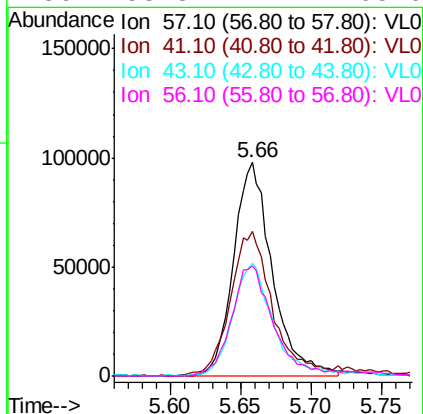
Instrument :
MSVOA_L
ClientSampleId :
SV5

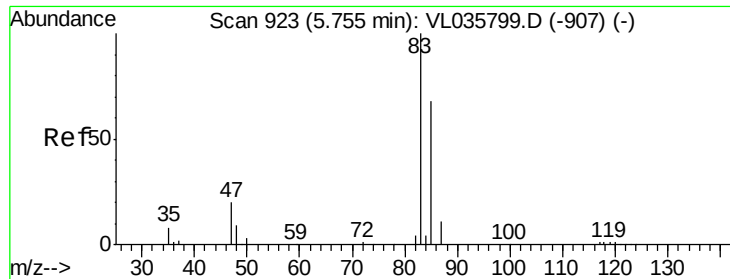
Manual Integrations
APPROVED

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11/5/2020 2:17:00 PM

#26
Hexane
Concen: 1.591 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.03 min
Lab File: VL035838.D
Acq: 4 Nov 2020 18:10

Tgt Ion	57	Resp	188532
Ion Ratio	Lower	Upper	
57	100		
41	77.8	58.9	88.3
43	56.1	150.2	225.2#
56	58.3	42.4	63.6





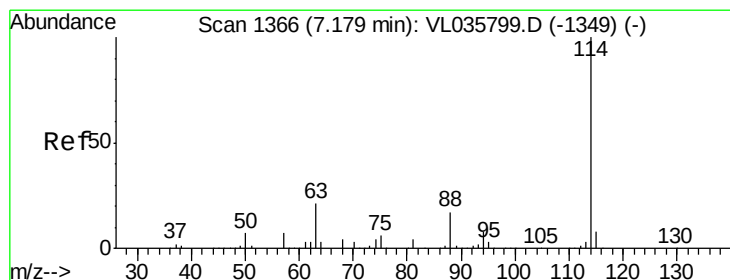
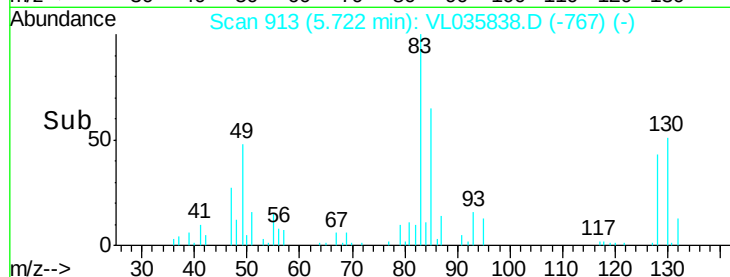
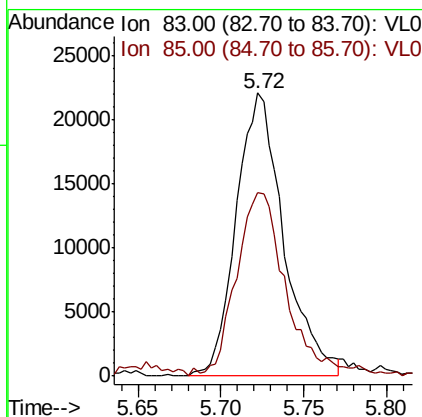
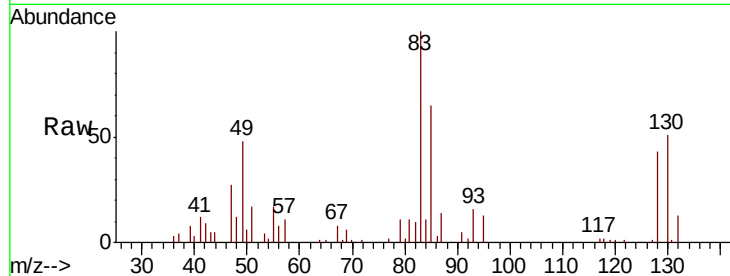
#29
Chloroform
Concen: 0.189 ppbv
RT: 5.72 min Scan# 913
Delta R.T. -0.03 min
Lab File: VL035838.D
Acq: 4 Nov 2020 18:10

Instrument :
MSVOA_L
ClientSampled :
SV5

Tot Ion: 83 Resp: 44031
Ion Ratio Lower Upper
83 100
85 64.7 54.6 81.8

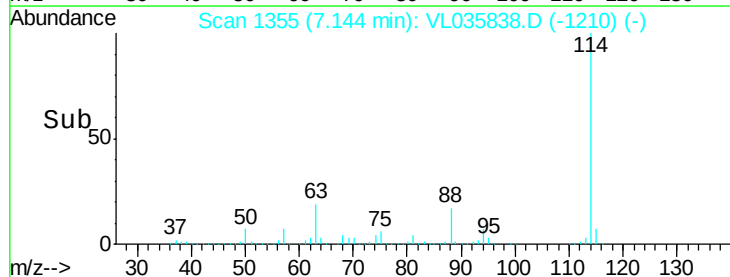
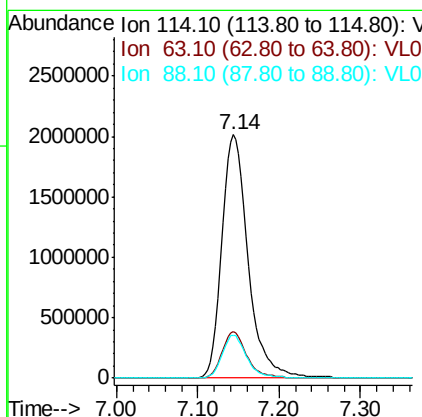
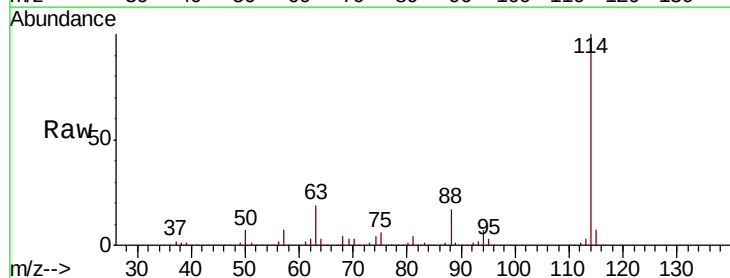
Manual Integrations
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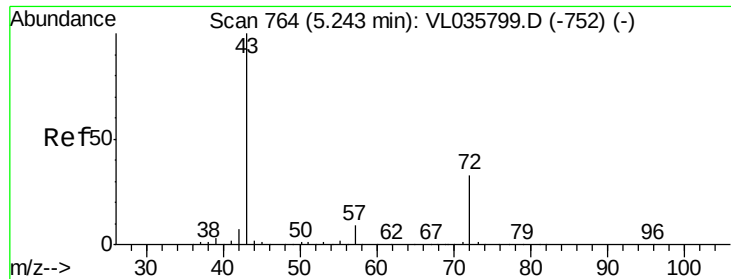
MMDadoda
11/5/2020 2:17:00 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. -0.04 min
Lab File: VL035838.D
Acq: 4 Nov 2020 18:10

Tgt Ion: 114 Resp: 4607203
Ion Ratio Lower Upper
114 100
63 18.2 16.1 24.1
88 16.7 13.7 20.5





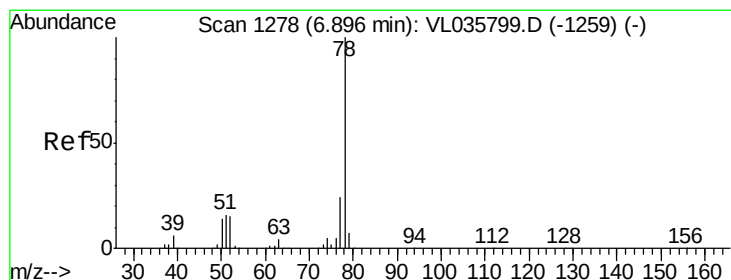
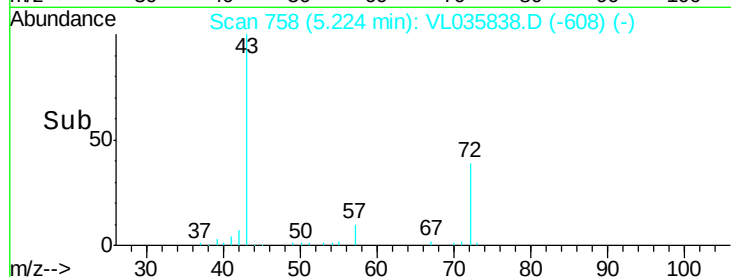
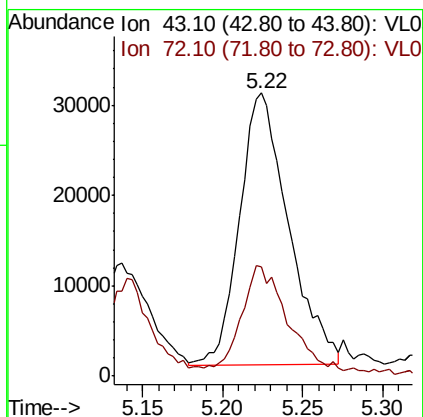
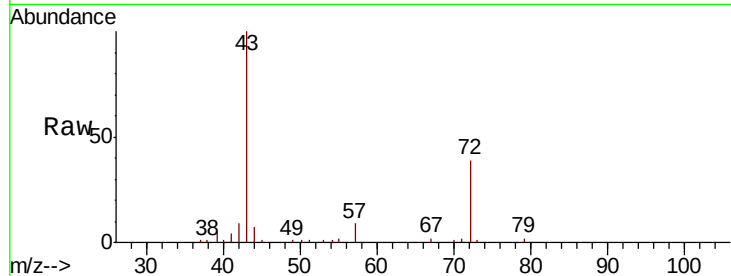
#34
2-Butanone
Concen: 0.422 ppbv
RT: 5.22 min Scan# 758
Delta R.T. -0.02 min
Lab File: VL035838.D
Acq: 4 Nov 2020 18:10

Instrument :
MSVOA_L
ClientSampled :
SV5

Tot Ion: 43 Resp: 63052
Ion Ratio Lower Upper
43 100
72 43.0 26.5 39.7#

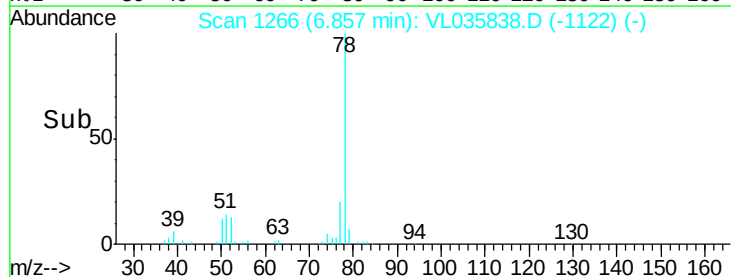
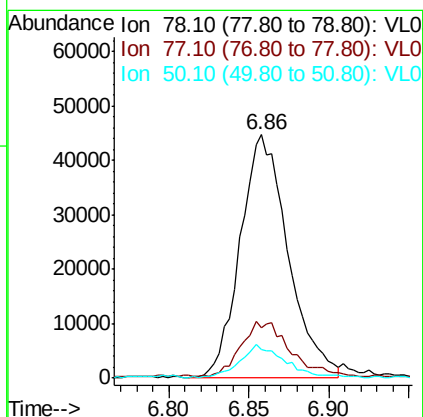
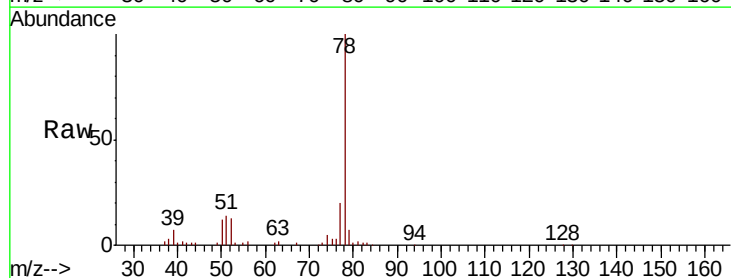
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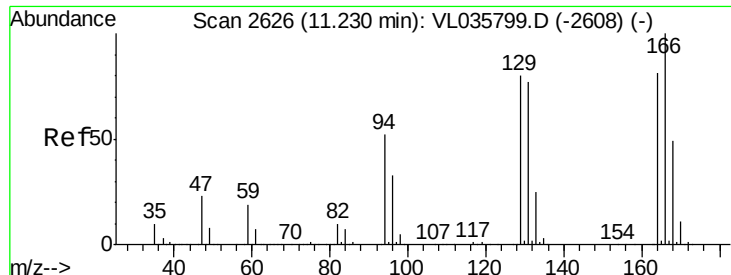
MMDadoda
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#36
Benzene
Concen: 0.268 ppbv
RT: 6.86 min Scan# 1266
Delta R.T. -0.04 min
Lab File: VL035838.D
Acq: 4 Nov 2020 18:10

Tgt Ion: 78 Resp: 91826
Ion Ratio Lower Upper
78 100
77 19.5 19.3 28.9
50 11.5 11.4 17.2





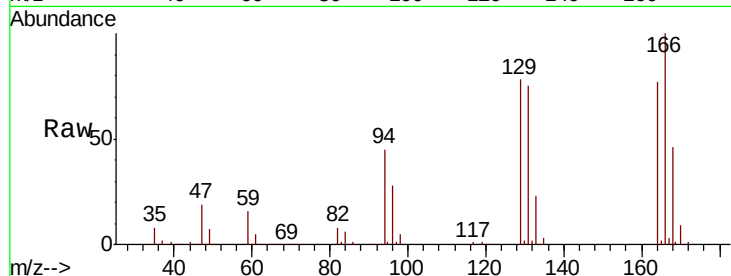
#52
Tetrachloroethene
Concen: 1.110 ppbv
RT: 11.19 min Scan# 2614
Delta R.T. -0.04 min
Lab File: VL035838.D
Acq: 4 Nov 2020 18:10

Instrument :
MSVOA_L
ClientSampled :
SV5

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
166	130.5	99.3	148.9	
129	101.6	79.3	118.9	
131	97.4	76.5	114.7	

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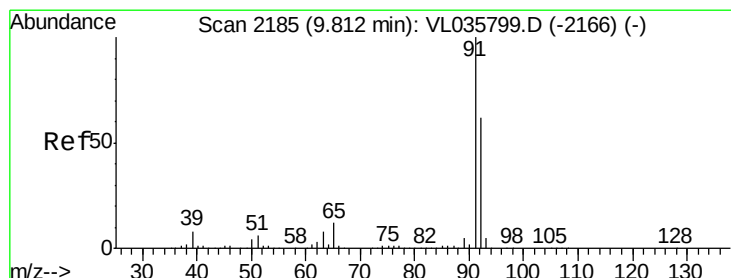
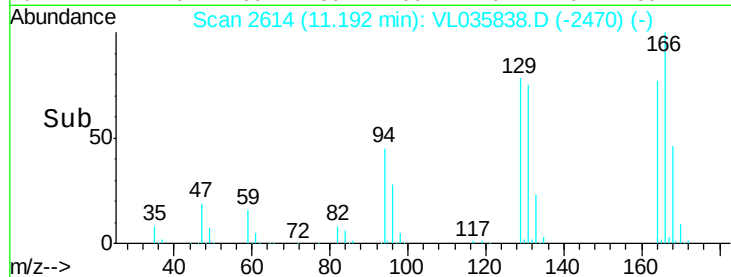
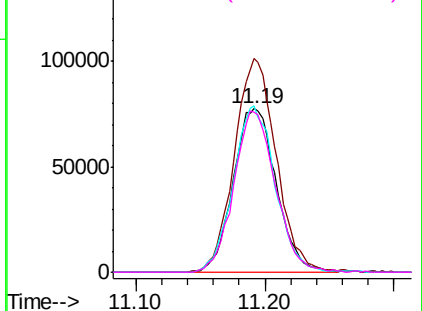
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

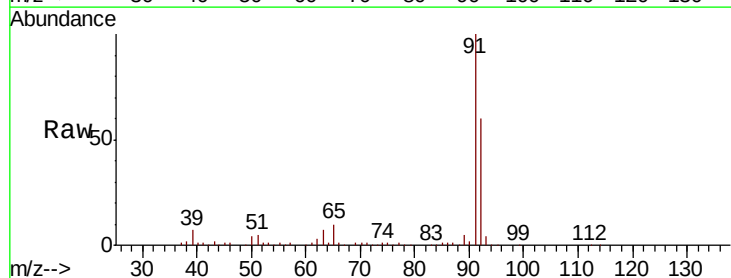
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53
Toluene
Concen: 0.971 ppbv
RT: 9.77 min Scan# 2173
Delta R.T. -0.04 min
Lab File: VL035838.D
Acq: 4 Nov 2020 18:10

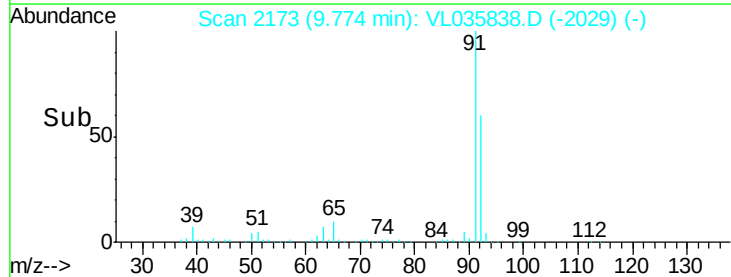
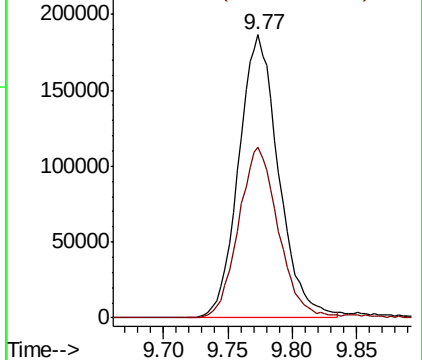
Tgt Ion	Ratio	Resp	Lower	Upper
91	100			
92	61.5	49.8	74.6	

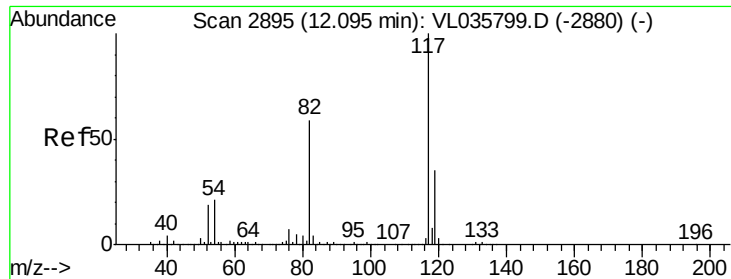


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





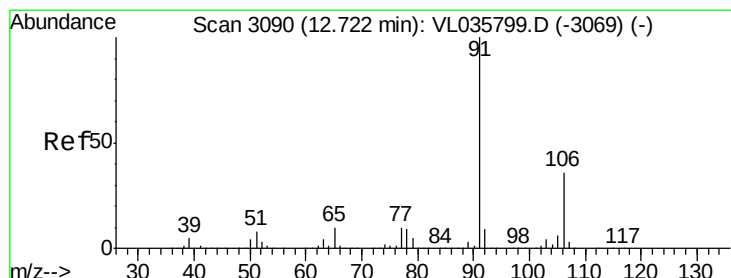
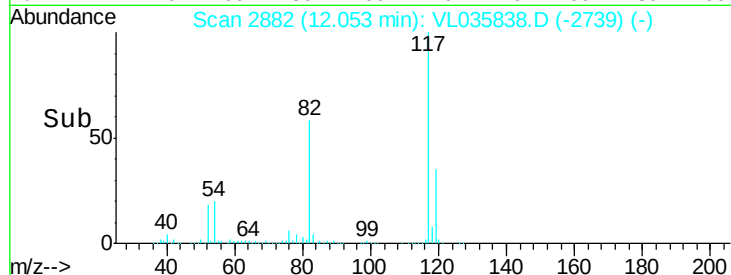
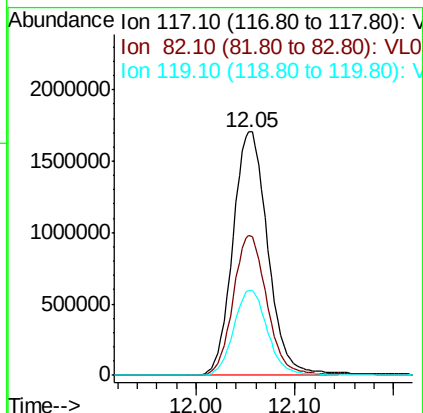
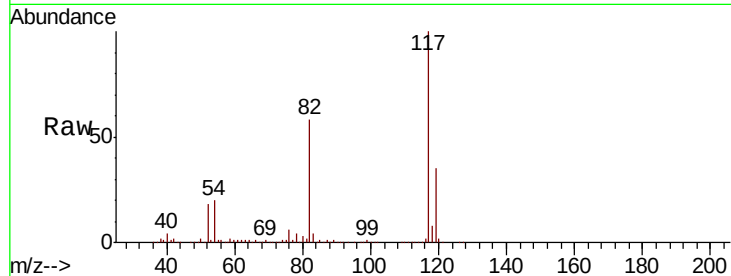
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.05 min Scan# 2882
Delta R.T. -0.04 min
Lab File: VL035838.D
Acq: 4 Nov 2020 18:10

Instrument :
MSVOA_L
ClientSampled :
SV5

Tot Ion:117 Resp: 4198308
Ion Ratio Lower Upper
117 100
82 57.0 50.6 76.0
119 34.3 52.6 78.8#

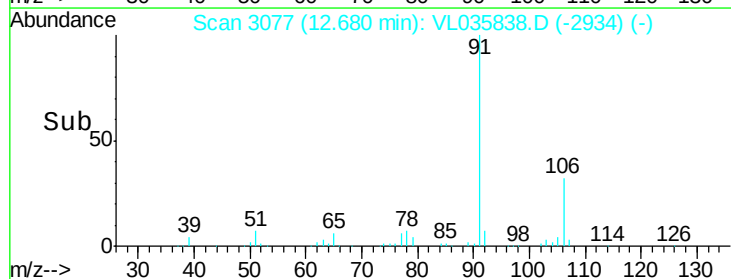
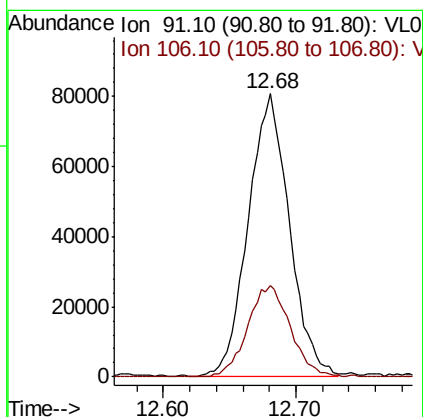
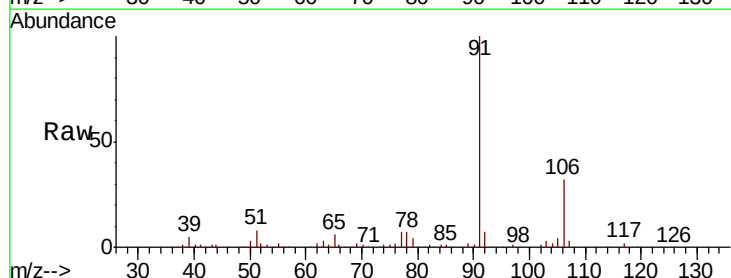
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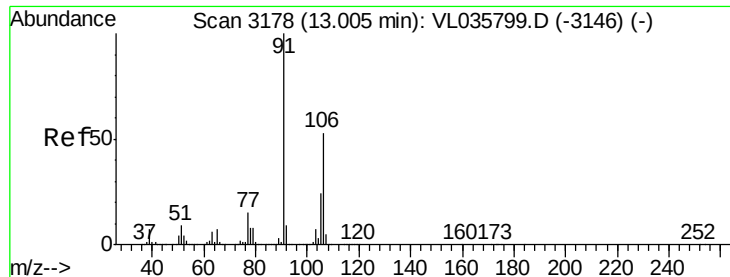
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#58
Ethyl Benzene
Concen: 0.340 ppbv
RT: 12.68 min Scan# 3077
Delta R.T. -0.04 min
Lab File: VL035838.D
Acq: 4 Nov 2020 18:10

Tgt Ion: 91 Resp: 173760
Ion Ratio Lower Upper
91 100
106 32.4 28.6 43.0





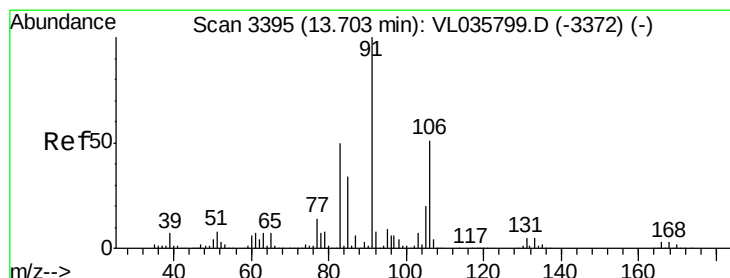
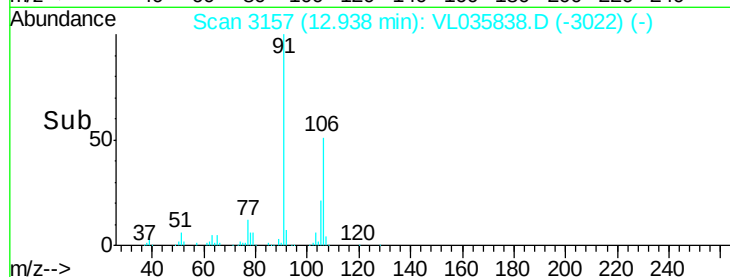
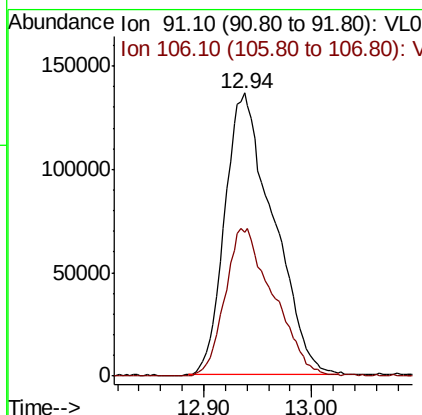
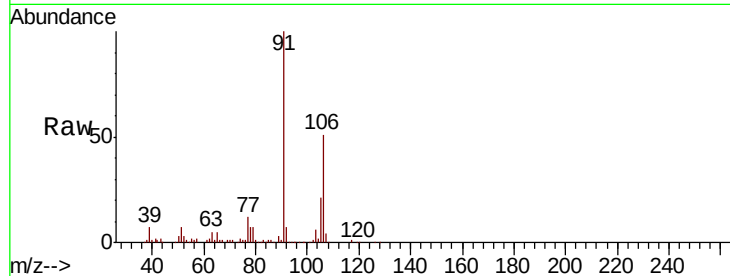
#59
m/p-Xylene
Concen: 0.981 ppbv
RT: 12.94 min Scan# 3157
Delta R.T. -0.07 min
Lab File: VL035838.D
Acq: 4 Nov 2020 18:10

Instrument :
MSVOA_L
ClientSampled :
SV5

Tot Ion: 91 Resp: 424222
Ion Ratio Lower Upper
91 100
106 53.0 39.5 59.3

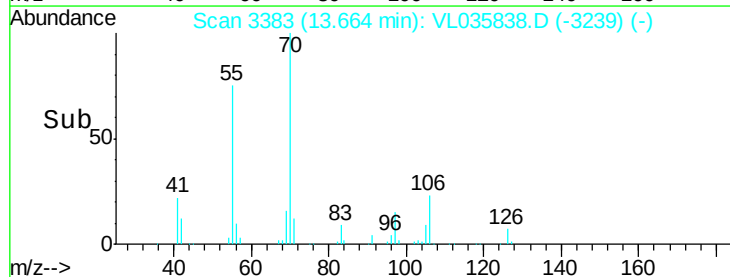
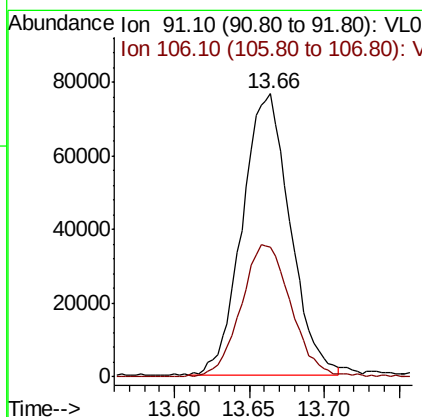
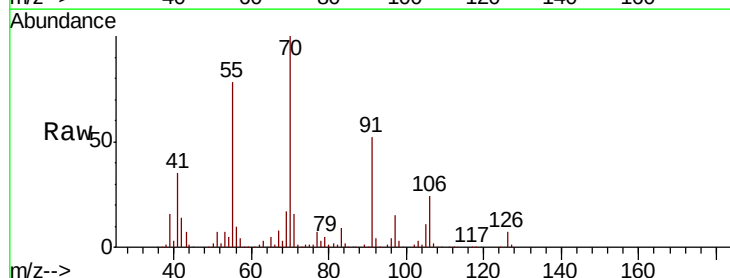
Manual Integrations
APPROVED

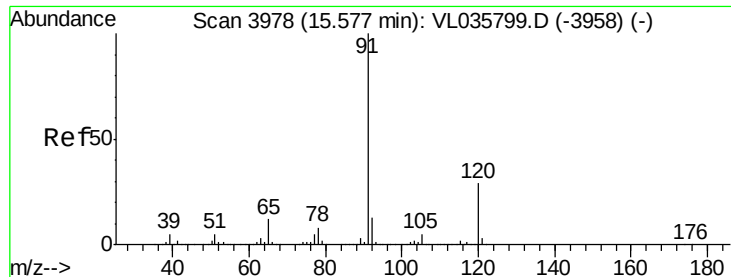
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#60
o-Xylene
Concen: 0.403 ppbv
RT: 13.66 min Scan# 3383
Delta R.T. -0.04 min
Lab File: VL035838.D
Acq: 4 Nov 2020 18:10

Tgt Ion: 91 Resp: 169730
Ion Ratio Lower Upper
91 100
106 49.6 24.8 74.4





#64

n-propylbenzene

Concen: 0.136 ppbv

RT: 15.54 min Scan# 3965

Delta R.T. -0.04 min

Lab File: VL035838.D

Acq: 4 Nov 2020 18:10

Instrument :

MSVOA_L

ClientSampled :

SV5

Tot Ion:120 Resp: 26044

Ion Ratio Lower Upper

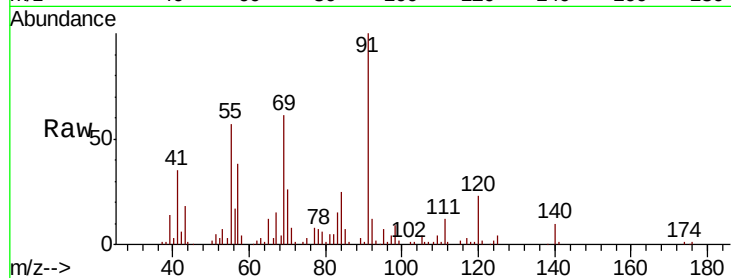
120 100

91 473.4 311.1 466.7#

Manual Integrations
APPROVED

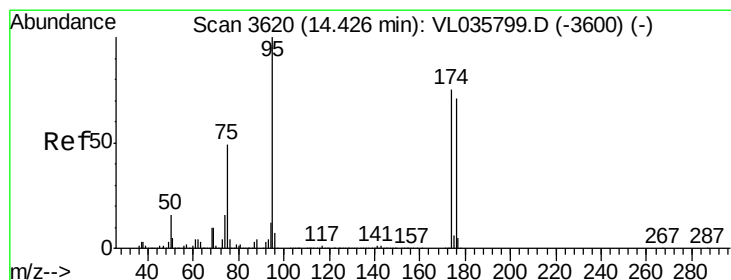
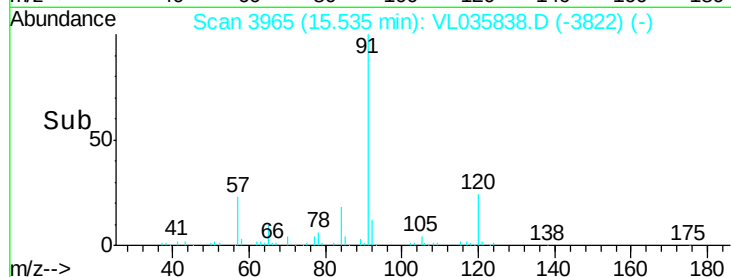
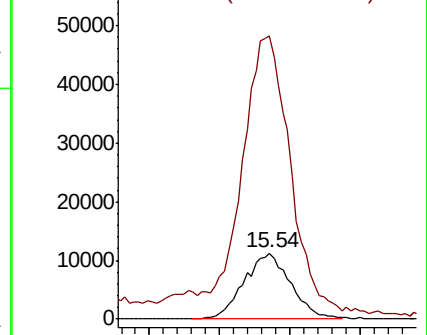
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Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 9.946 ppbv

RT: 14.38 min Scan# 3607

Delta R.T. -0.04 min

Lab File: VL035838.D

Acq: 4 Nov 2020 18:10

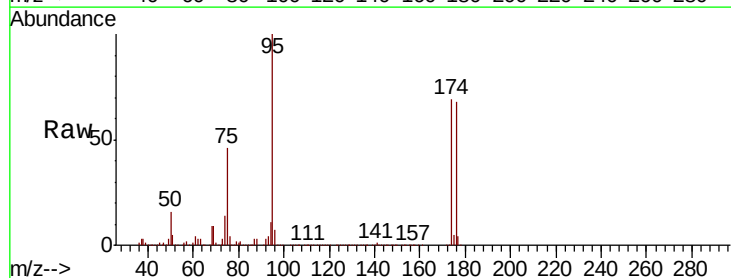
Tgt Ion: 95 Resp: 2966703

Ion Ratio Lower Upper

95 100

174 74.0 59.8 89.6

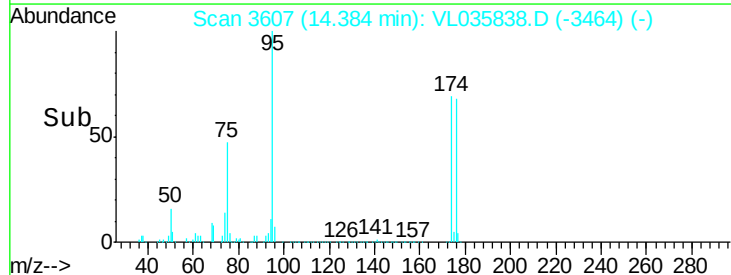
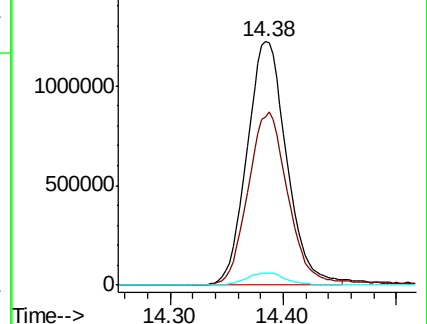
175 5.2 4.3 6.5

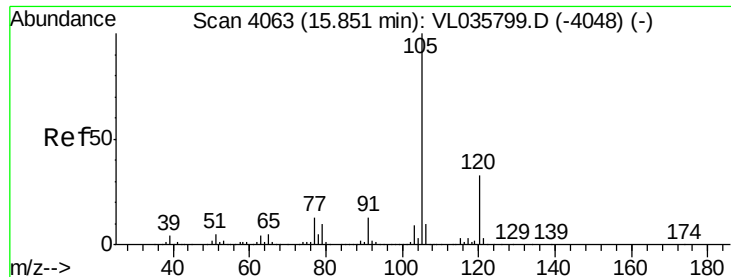


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 0.123 ppbv

RT: 15.81 min Scan# 4050

Delta R.T. -0.04 min

Lab File: VL035838.D

Acq: 4 Nov 2020 18:10

Instrument :

MSVOA_L

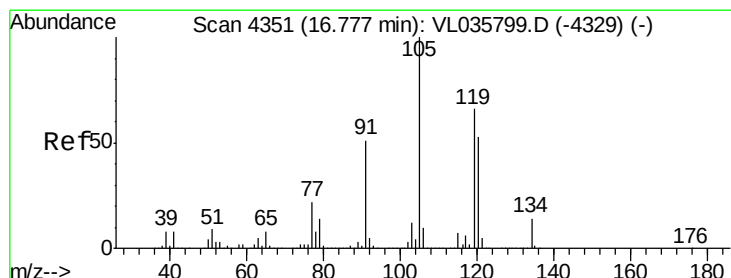
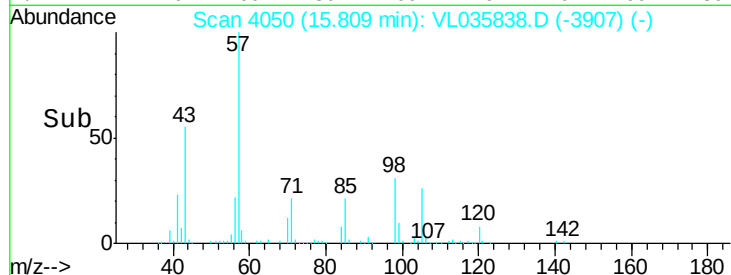
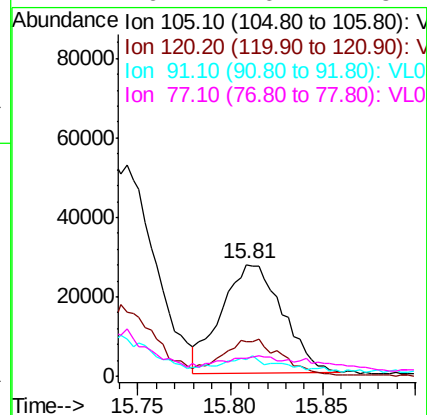
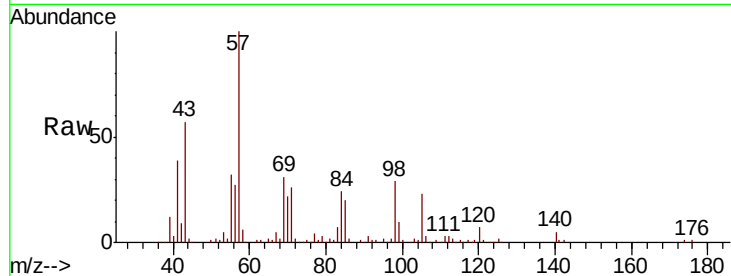
ClientSampleId :

SV5

Tot Ion	Ratio	Resp	Lower	Upper
105	100	62859		
120	34.5	25.9	38.9	
91	16.9	9.9	14.9	
77	20.2	10.2	15.2	

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 0.263 ppbv

RT: 16.73 min Scan# 4338

Delta R.T. -0.04 min

Lab File: VL035838.D

Acq: 4 Nov 2020 18:10

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	131800		
120	43.6	42.0	63.0	
91	12.1	41.0	61.6	
77	12.8	17.3	25.9	

