

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110420\
 Data File : VL035840.D
 Acq On : 4 Nov 2020 19:28
 Operator : SY/AP
 Sample : L4610-06 2X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV6

Manual Integrations
 APPROVED

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 11/5/2020 2:17:10 PM

Quant Time: Nov 05 11:29:54 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	973653	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.14	114	4472221	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.05	117	4100624	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.38	95	2929824	10.06	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	32952	0.180	ppbv	94
3) Chlorodifluoromethane	2.96	51	20199	0.173	ppbv #	89
4) Chloromethane	3.11	50	5501m	0.097	ppbv	
9) Propene	2.99	41	127105	2.978	ppbv	94
10) Heptane	8.09	43	16662m	0.141	ppbv	
11) Trichlorofluoromethane	3.92	101	25613	0.111	ppbv	91
13) Ethanol	3.59	45	23149m	2.500	ppbv	
15) Acetone	3.82	43	986006	9.472	ppbv	97
20) Methylene Chloride	4.31	84	71279	0.973	ppbv	98
26) Hexane	5.65	57	62492	0.553	ppbv #	46
34) 2-Butanone	5.23	43	43145m	0.297	ppbv	
36) Benzene	6.86	78	40817	0.123	ppbv	92
38) Trichloroethene	7.80	130	6685	0.041	ppbv #	64
52) Tetrachloroethene	11.19	164	34054	0.216	ppbv	94
53) Toluene	9.77	91	249430	0.622	ppbv	98
58) Ethyl Benzene	12.68	91	140459m	0.281	ppbv	
59) m/p-Xylene	12.94	91	310320	0.734	ppbv	97
60) o-Xylene	13.65	91	190152m	0.463	ppbv	
70) n-Butylbenzene	18.54	91	212477	0.337	ppbv	96
74) 1,2,4-Trimethylbenzene	16.74	105	118179	0.242	ppbv #	68
80) Naphthalene,2-methyl-	24.95	142	9586m	0.173	ppbv	

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

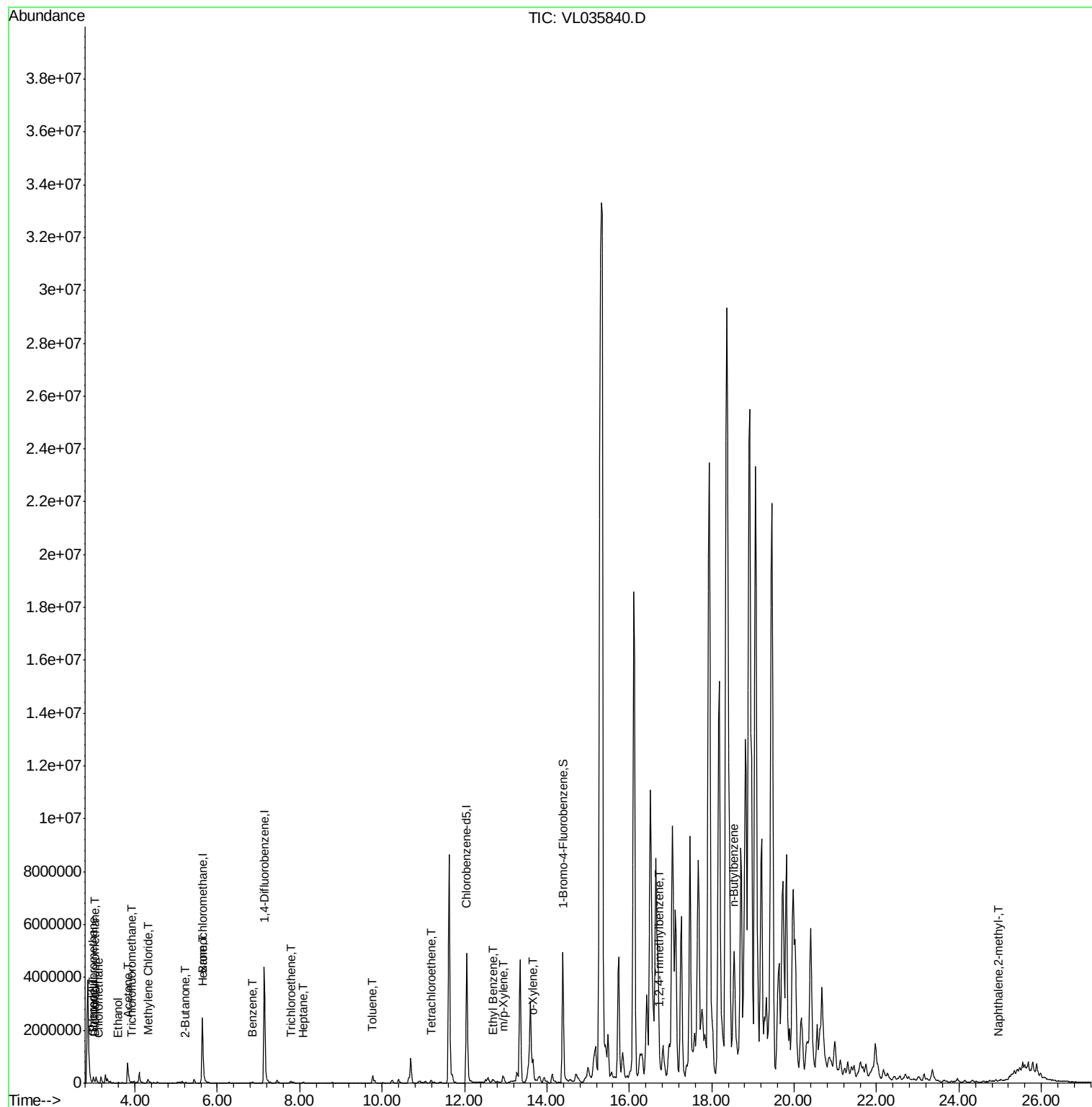
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110420\
Data File : VL035840.D
Acq On : 4 Nov 2020 19:28
Operator : SY/AP
Sample : L4610-06 2X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

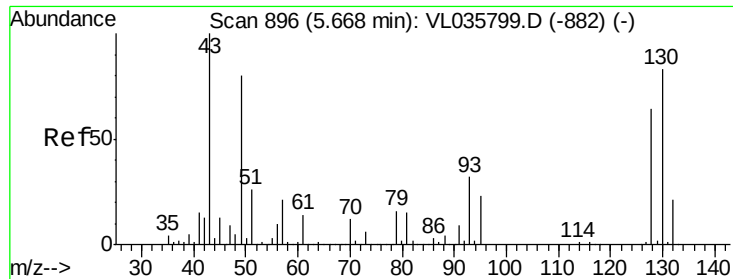
Instrument :
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ClientSampleId :
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Quant Time: Nov 05 11:29:54 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
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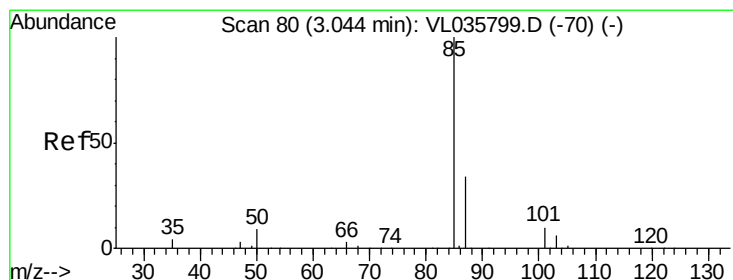
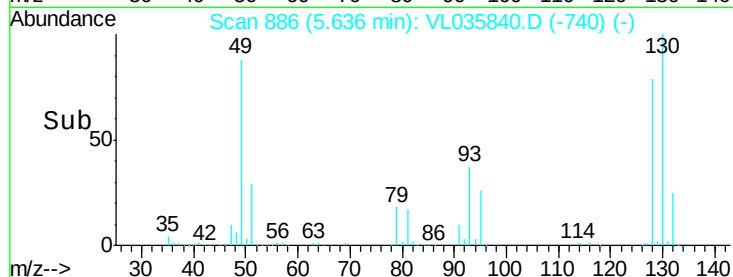
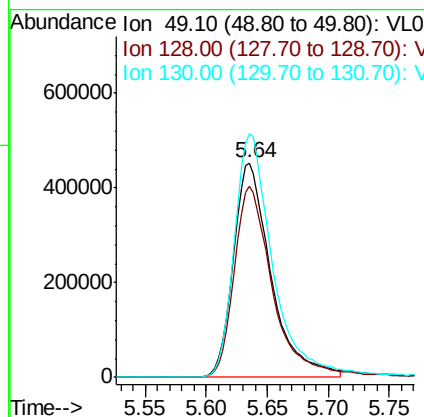
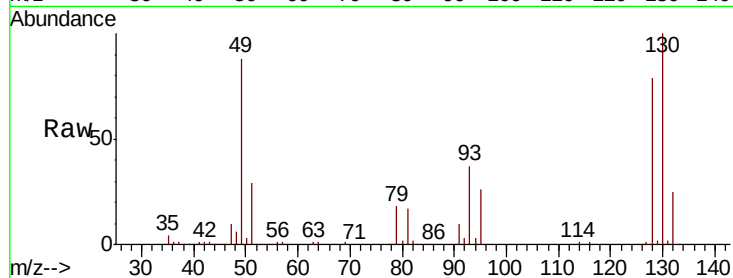
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.64 min Scan# 886
Delta R.T. -0.03 min
Lab File: VL035840.D
Acq: 4 Nov 2020 19:28

Instrument :
MSVOA_L
ClientSampleId :
SV6

Tot Ion	Ratio	Lower	Upper
49	100		
128	93.5	41.5	124.6
130	118.8	53.7	161.1

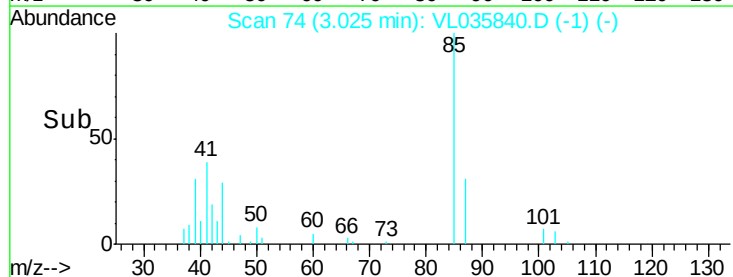
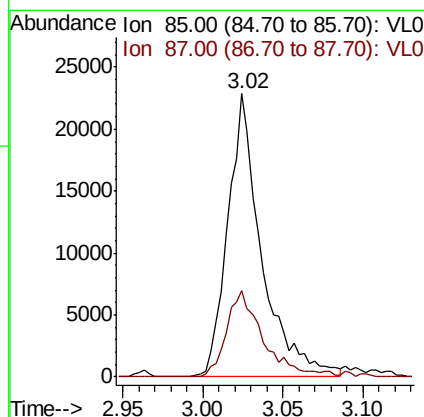
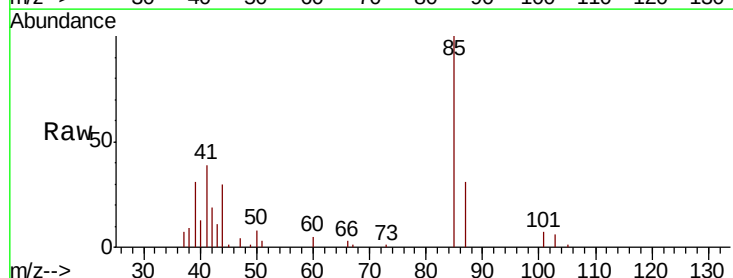
Manual Integrations
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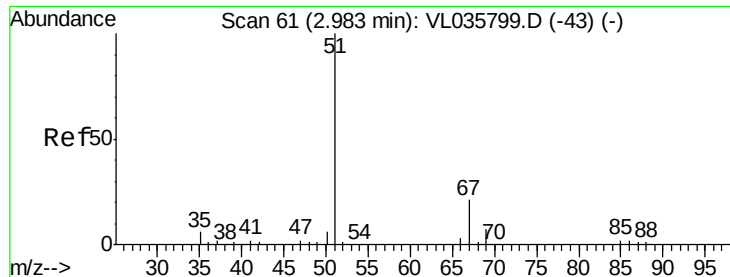
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#2
Dichlorodifluoromethane
Concen: 0.180 ppbv
RT: 3.02 min Scan# 74
Delta R.T. -0.02 min
Lab File: VL035840.D
Acq: 4 Nov 2020 19:28

Tgt Ion	Ratio	Lower	Upper
85	100		
87	30.7	27.1	40.7





#3

Chlorodifluoromethane

Concen: 0.173 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL035840.D

Acq: 4 Nov 2020 19:28

Instrument :

MSVOA_L

ClientSampleId :

SV6

Tot Ion: 51 Resp: 20199

Ion Ratio Lower Upper

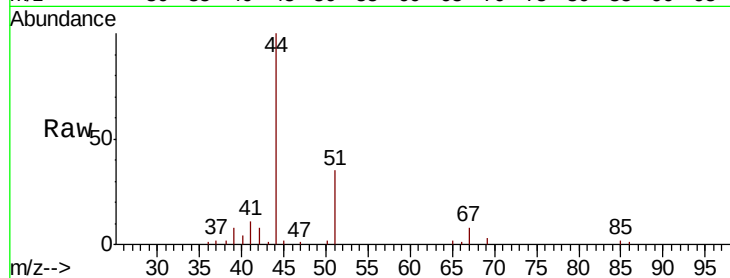
51 100

67 16.2 17.0 25.4#

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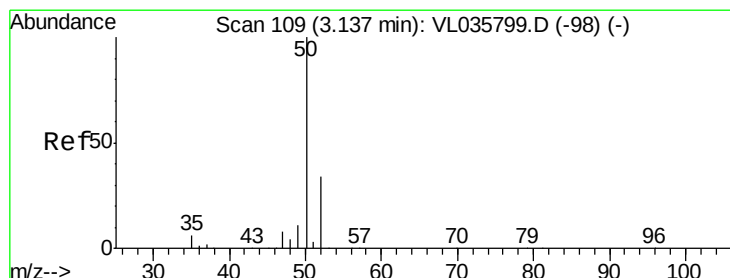
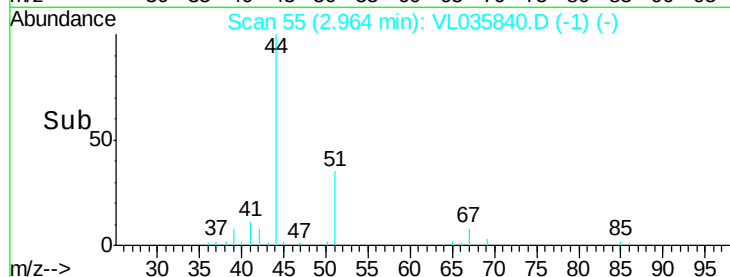
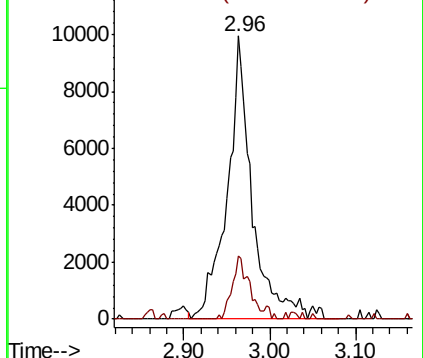
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.097 ppbv m

RT: 3.11 min Scan# 102

Delta R.T. -0.02 min

Lab File: VL035840.D

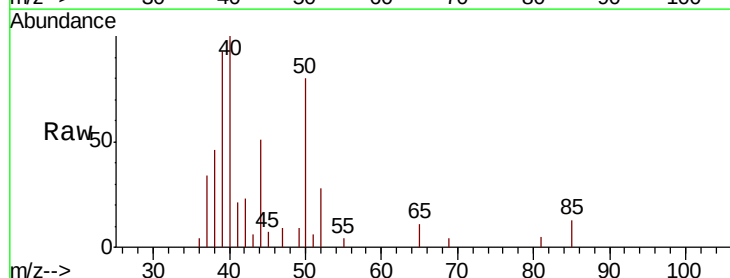
Acq: 4 Nov 2020 19:28

Tgt Ion: 50 Resp: 5501

Ion Ratio Lower Upper

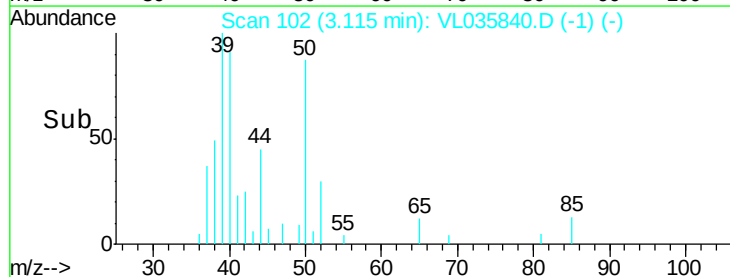
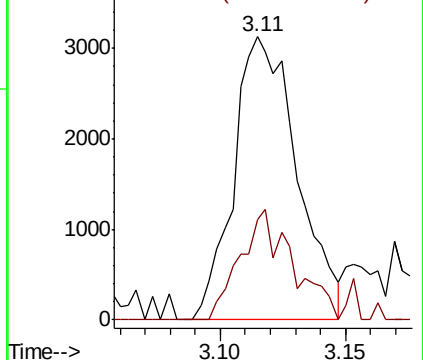
50 100

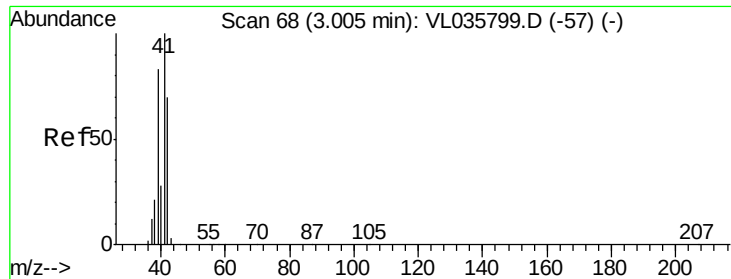
52 35.2 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.978 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.02 min

Lab File: VL035840.D

Acq: 4 Nov 2020 19:28

Instrument :

MSVOA_L

ClientSampleId :

SV6

Tot Ion: 41 Resp: 127105

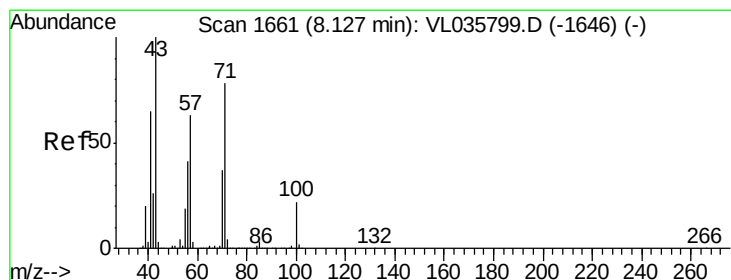
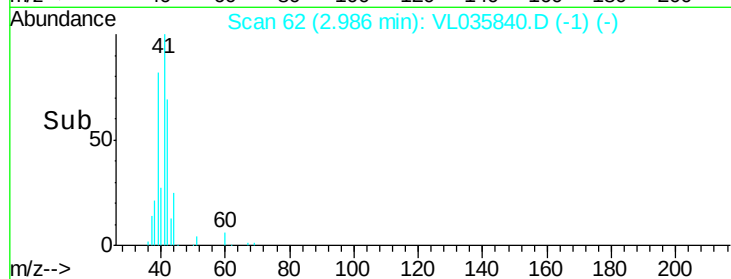
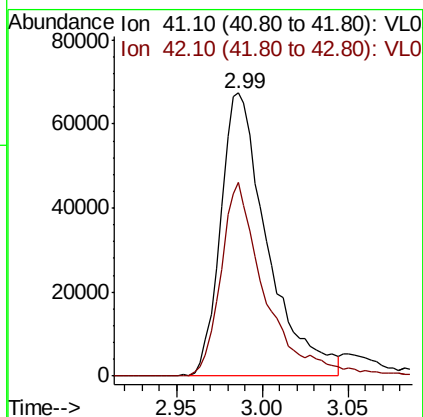
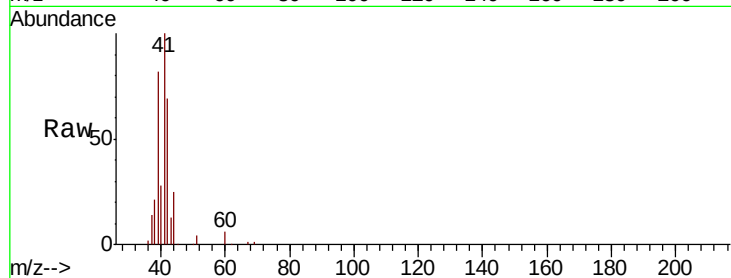
Ion Ratio Lower Upper

41 100

42 65.8 56.2 84.4

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#10

Heptane

Concen: 0.141 ppbv m

RT: 8.09 min Scan# 1649

Delta R.T. -0.04 min

Lab File: VL035840.D

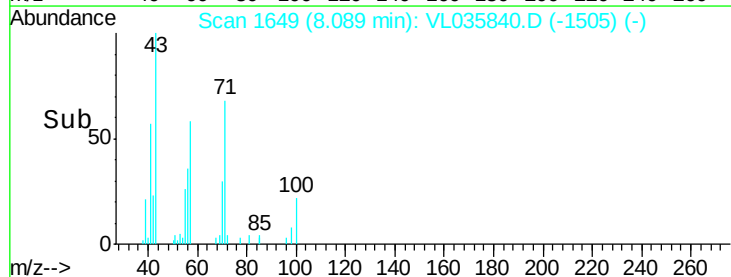
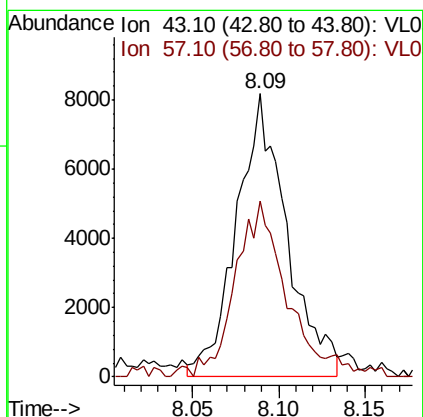
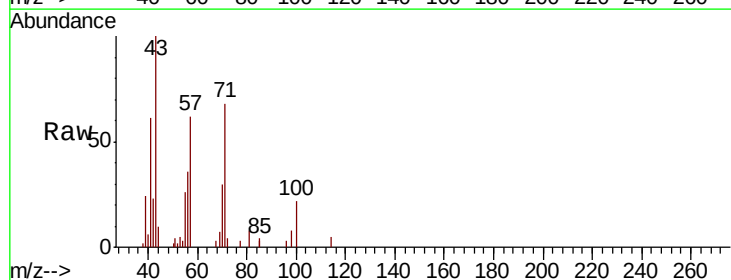
Acq: 4 Nov 2020 19:28

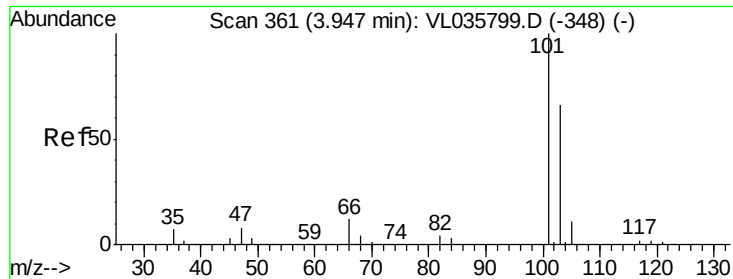
Tgt Ion: 43 Resp: 16662

Ion Ratio Lower Upper

43 100

57 65.3 50.0 75.0





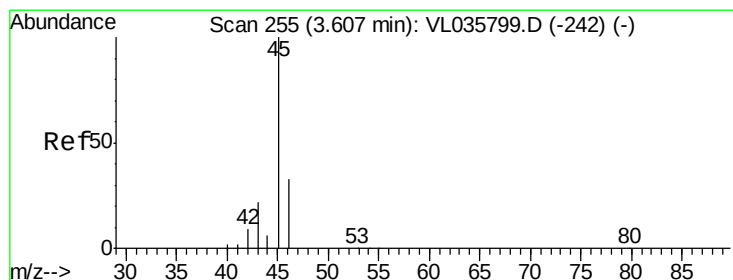
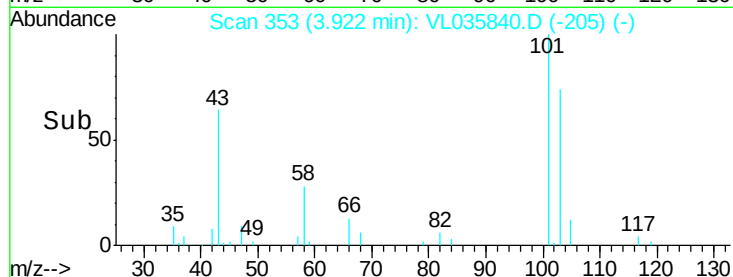
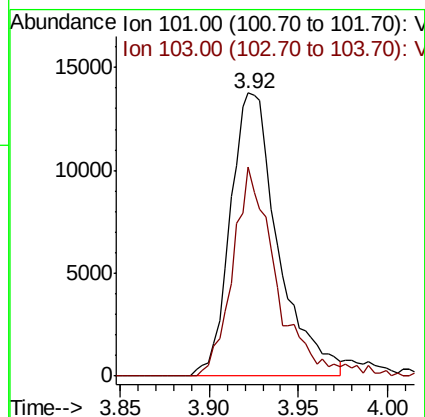
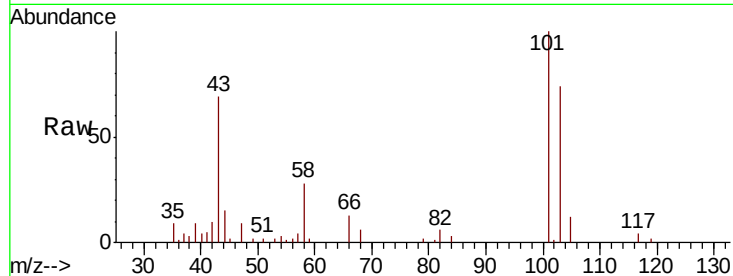
#11
Trichlorofluoromethane
Concen: 0.111 ppbv
RT: 3.92 min Scan# 353
Delta R.T. -0.03 min
Lab File: VL035840.D
Acq: 4 Nov 2020 19:28

Instrument :
MSVOA_L
ClientSampleId :
SV6

Tot Ion:101 Resp: 25613
Ion Ratio Lower Upper
101 100
103 73.7 53.0 79.4

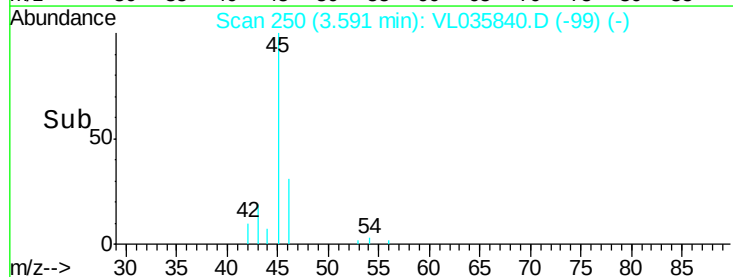
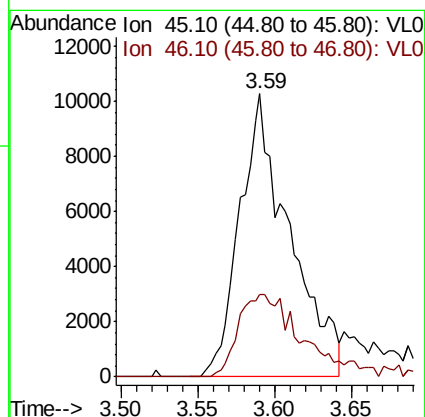
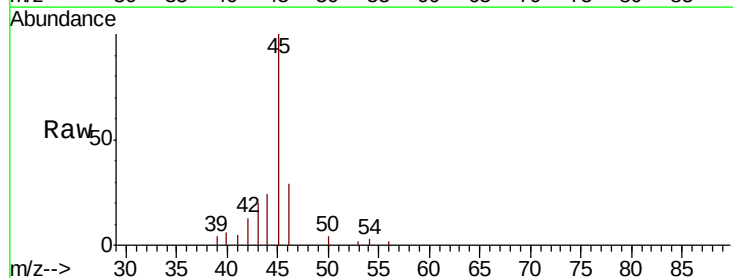
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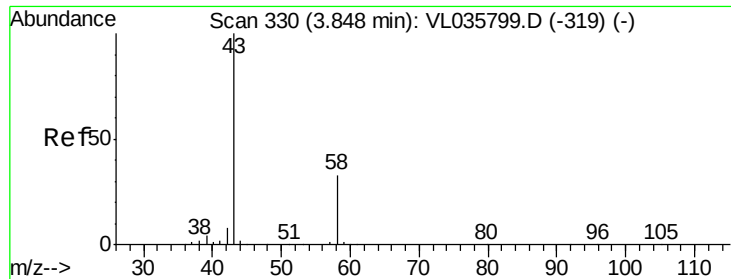
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#13
Ethanol
Concen: 2.500 ppbv m
RT: 3.59 min Scan# 250
Delta R.T. -0.02 min
Lab File: VL035840.D
Acq: 4 Nov 2020 19:28

Tgt Ion: 45 Resp: 23149
Ion Ratio Lower Upper
45 100
46 37.2 16.1 64.5





#15

Acetone

Concen: 9.472 ppbv

RT: 3.82 min Scan# 322

Delta R.T. -0.03 min

Lab File: VL035840.D

Acq: 4 Nov 2020 19:28

Instrument :

MSVOA_L

ClientSampled :

SV6

Tot Ion: 43 Resp: 986006

Ion Ratio Lower Upper

43 100

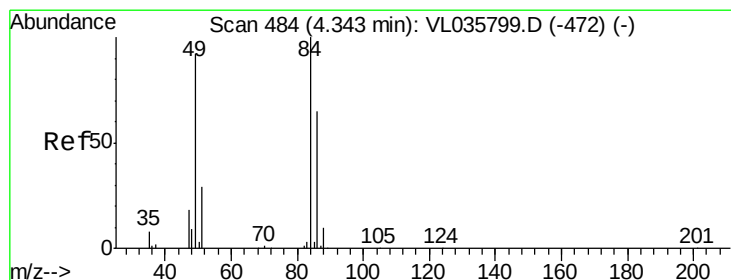
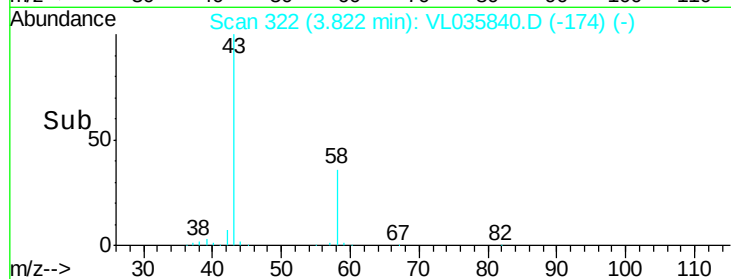
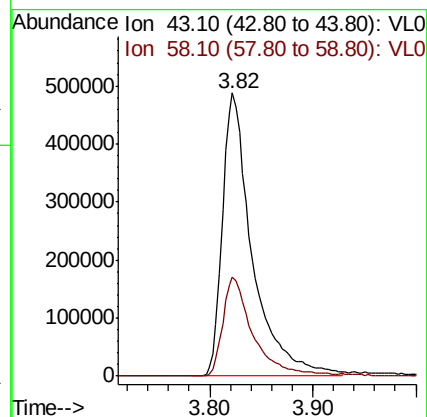
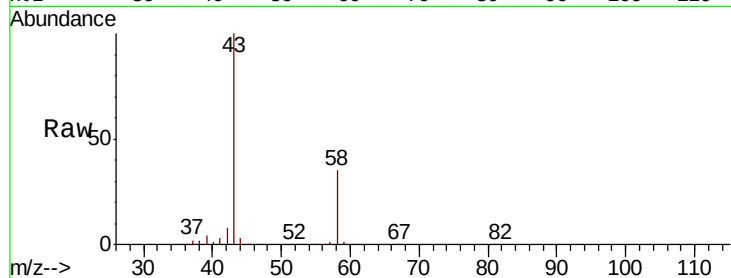
58 36.2 27.5 41.3

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#20

Methylene Chloride

Concen: 0.973 ppbv

RT: 4.31 min Scan# 475

Delta R.T. -0.03 min

Lab File: VL035840.D

Acq: 4 Nov 2020 19:28

Tgt Ion: 84 Resp: 71279

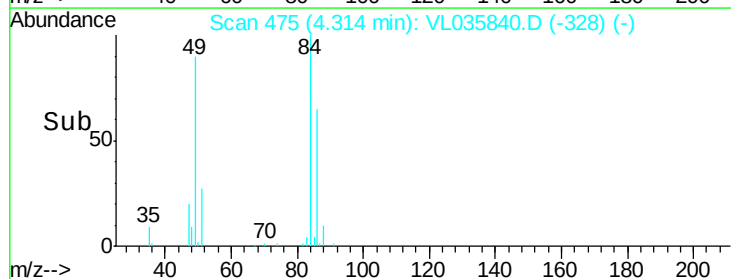
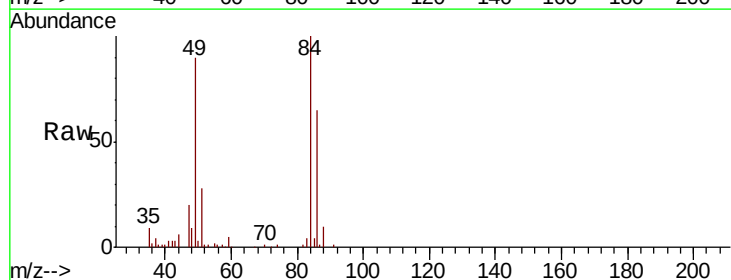
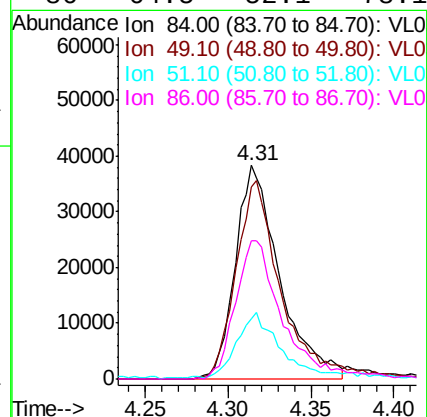
Ion Ratio Lower Upper

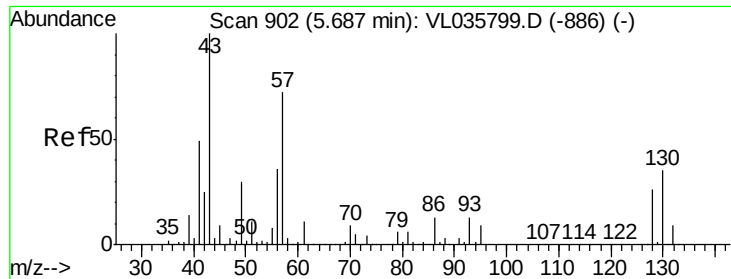
84 100

49 89.6 73.8 110.8

51 27.0 23.0 34.4

86 64.5 52.1 78.1





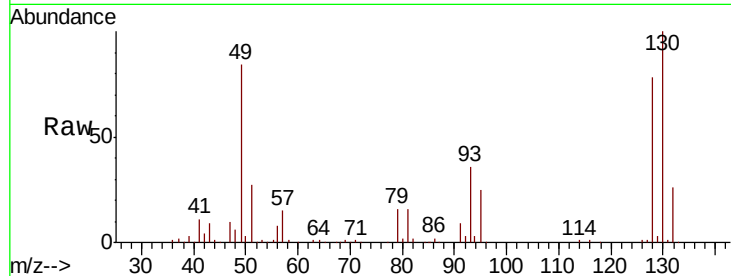
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Hexane
Concen: 0.553 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.03 min
Lab File: VL035840.D
Acq: 4 Nov 2020 19:28

Instrument :
MSVOA_L
ClientSampled :
SV6

Tot Ion	Ratio	Lower	Upper
57	100		
41	81.4	58.9	88.3
43	66.1	150.2	225.2#
56	60.5	42.4	63.6

Manual Integrations
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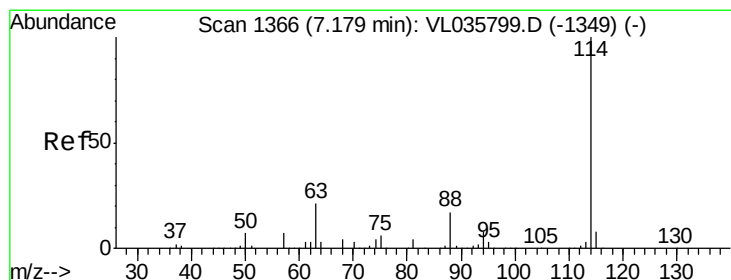
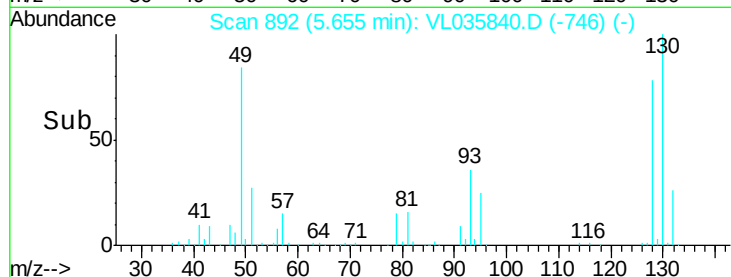
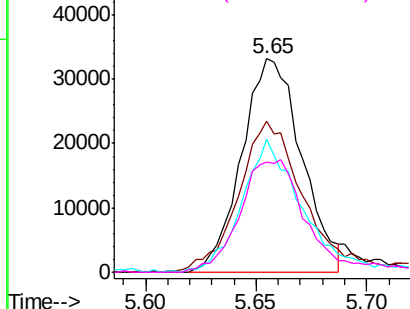
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

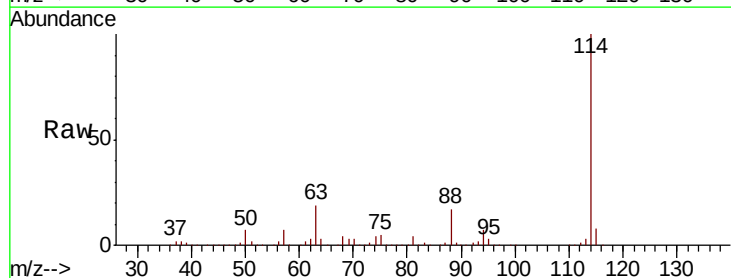
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.14 min Scan# 1354
Delta R.T. -0.04 min
Lab File: VL035840.D
Acq: 4 Nov 2020 19:28

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.4	16.1	24.1
88	16.8	13.7	20.5

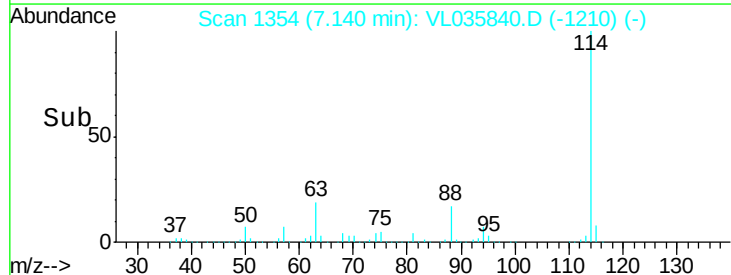
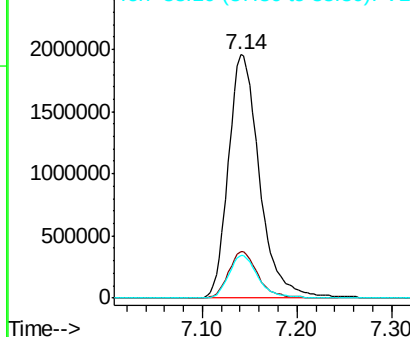


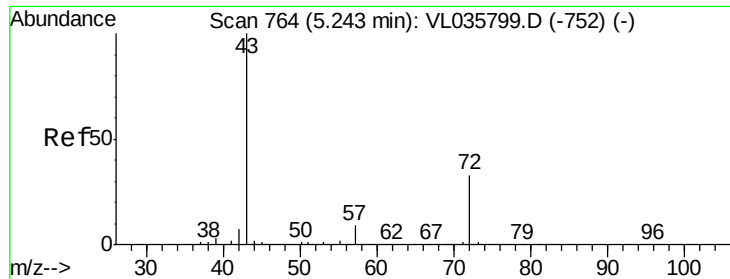
Abundance

Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





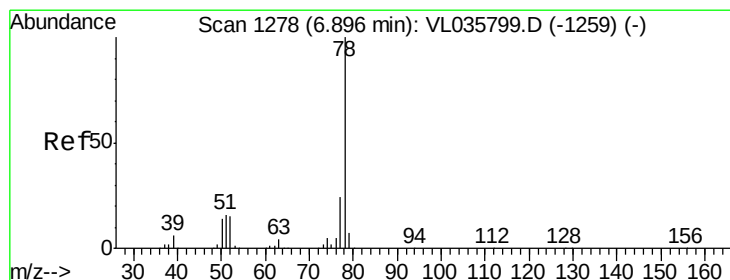
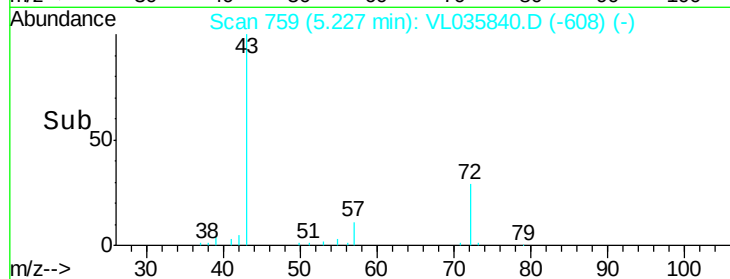
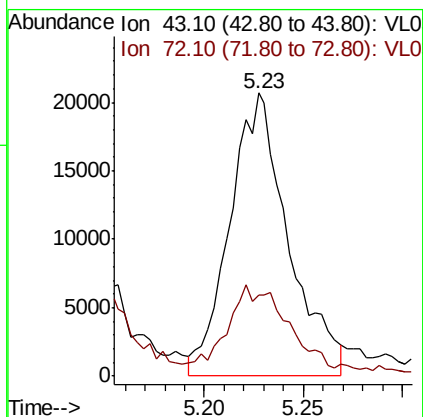
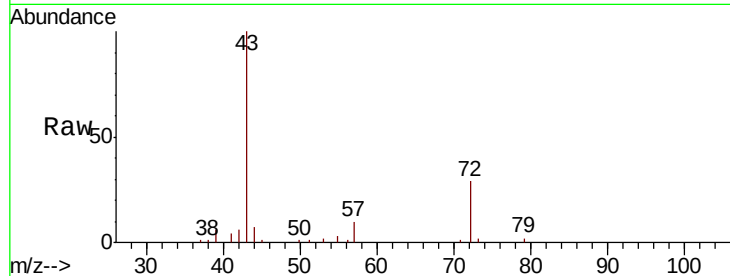
#34
2-Butanone
Concen: 0.297 ppbv m
RT: 5.23 min Scan# 759
Delta R.T. -0.02 min
Lab File: VL035840.D
Acq: 4 Nov 2020 19:28

Instrument :
MSVOA_L
ClientSampled :
SV6

Tot Ion	43	Resp	43145
Ion Ratio	100	Lower	Upper
72	39.4	26.5	39.7

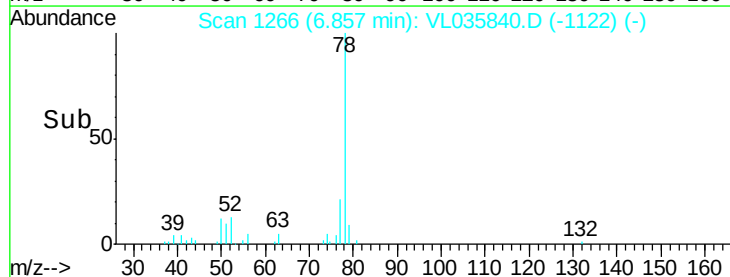
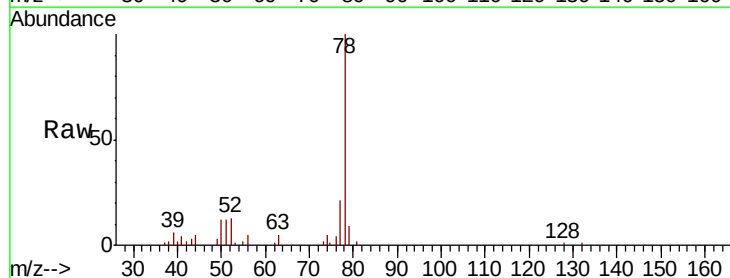
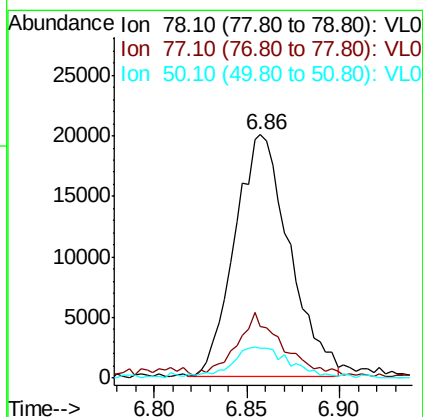
Manual Integrations
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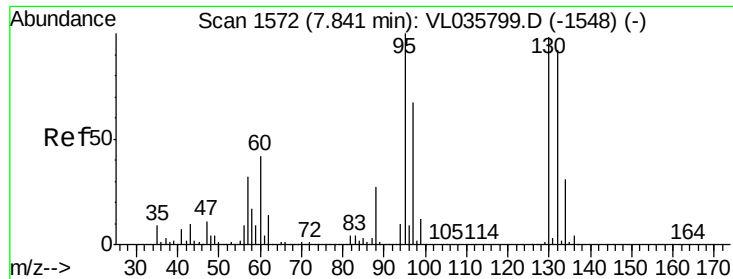
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#36
Benzene
Concen: 0.123 ppbv
RT: 6.86 min Scan# 1266
Delta R.T. -0.04 min
Lab File: VL035840.D
Acq: 4 Nov 2020 19:28

Tgt Ion	78	Resp	40817
Ion Ratio	100	Lower	Upper
77	19.4	19.3	28.9
50	11.7	11.4	17.2





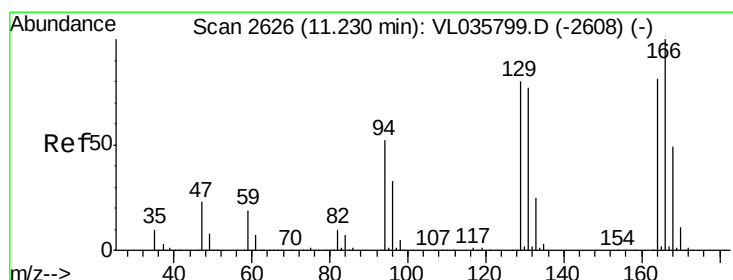
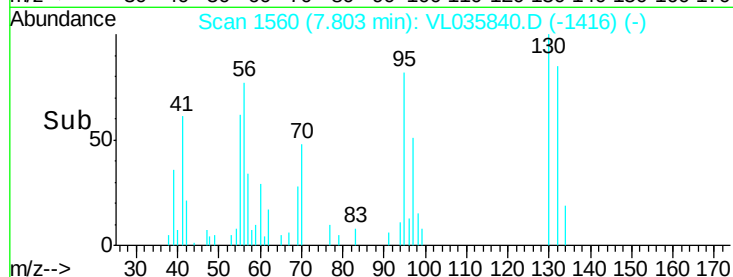
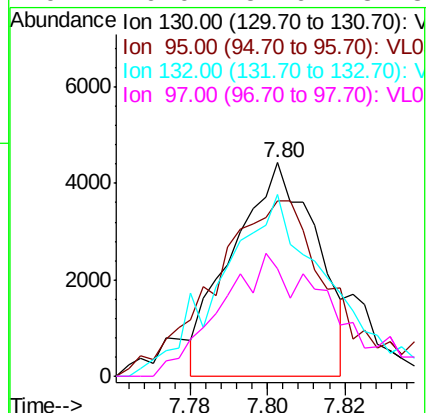
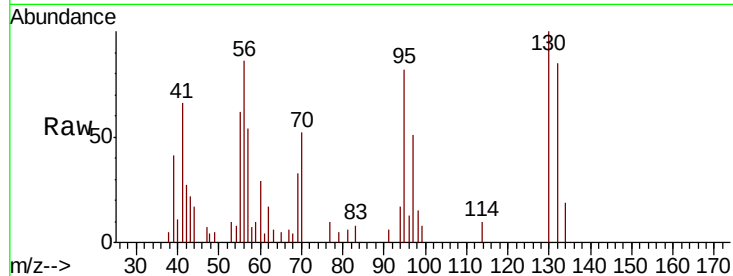
#38
 Trichloroethene
 Concen: 0.041 ppbv
 RT: 7.80 min Scan# 1560
 Delta R.T. -0.04 min
 Lab File: VL035840.D
 Acq: 4 Nov 2020 19:28

Instrument :
 MSVOA_L
 ClientSampled :
 SV6

Tot Ion:	130	Resp:	6685
Ion	Ratio	Lower	Upper
130	100		
95	66.9	81.6	122.4#
132	55.8	75.1	112.7#
97	40.0	54.6	81.8#

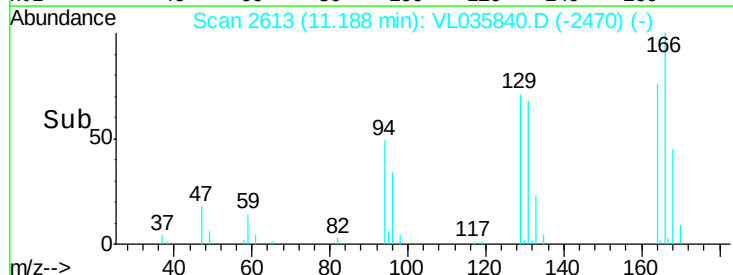
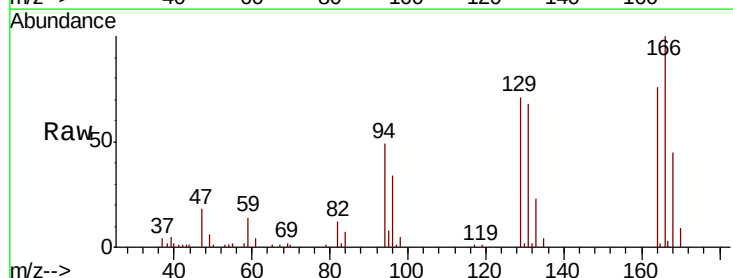
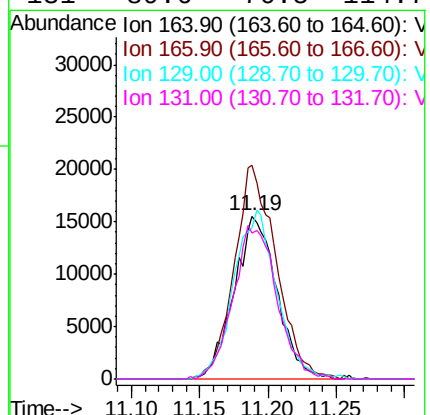
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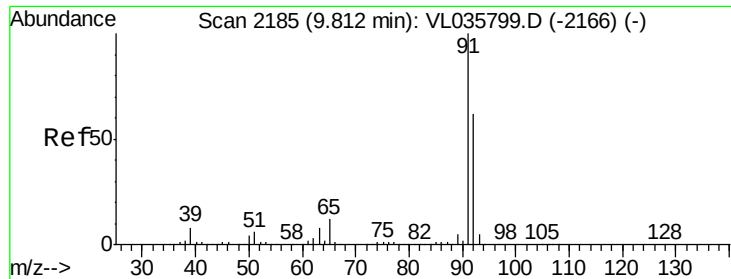
MMDadoda
 11/5/2020 2:17:10 PM



#52
 Tetrachloroethene
 Concen: 0.216 ppbv
 RT: 11.19 min Scan# 2613
 Delta R.T. -0.04 min
 Lab File: VL035840.D
 Acq: 4 Nov 2020 19:28

Tgt Ion:	164	Resp:	34054
Ion	Ratio	Lower	Upper
164	100		
166	130.9	99.3	148.9
129	92.4	79.3	118.9
131	89.6	76.5	114.7





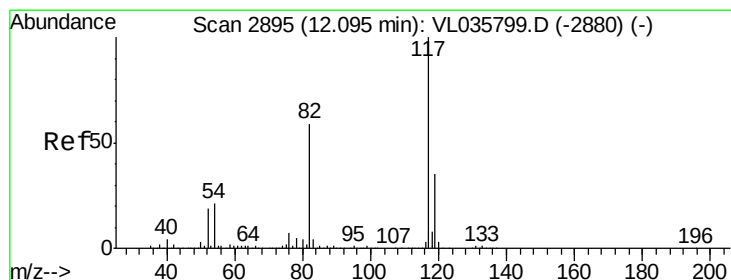
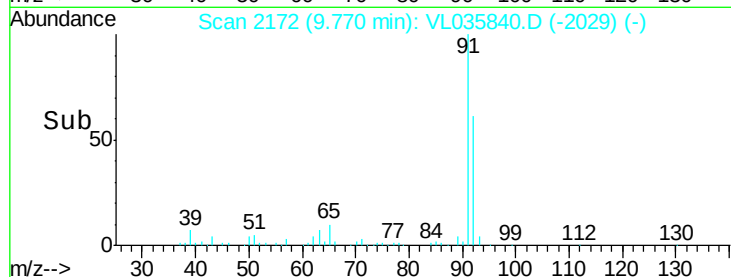
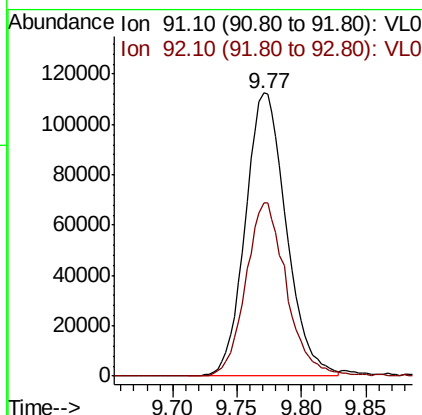
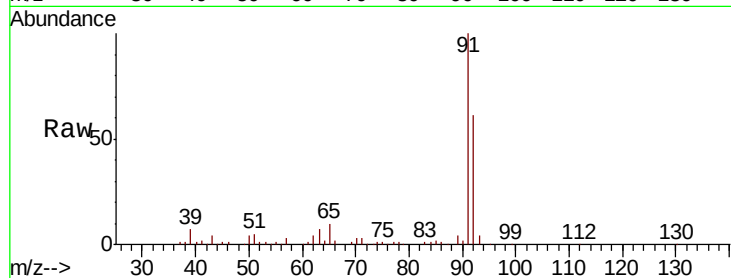
#53
Toluene
Concen: 0.622 ppbv
RT: 9.77 min Scan# 2172
Delta R.T. -0.04 min
Lab File: VL035840.D
Acq: 4 Nov 2020 19:28

Instrument :
MSVOA_L
ClientSampled :
SV6

Tot Ion: 91 Resp: 249430
Ion Ratio Lower Upper
91 100
92 61.0 49.8 74.6

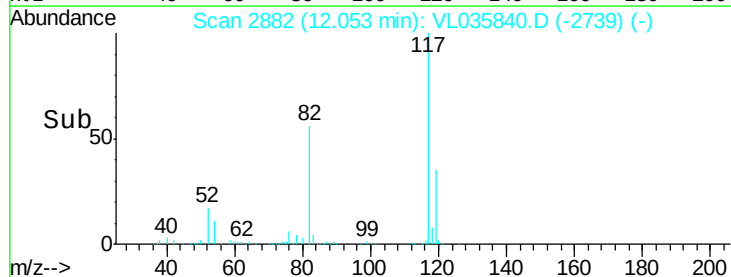
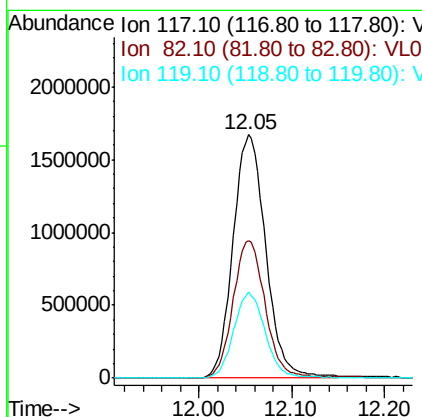
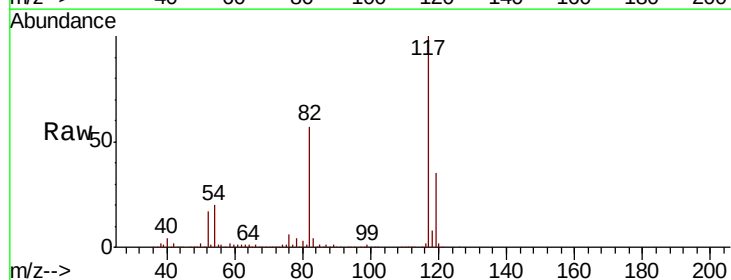
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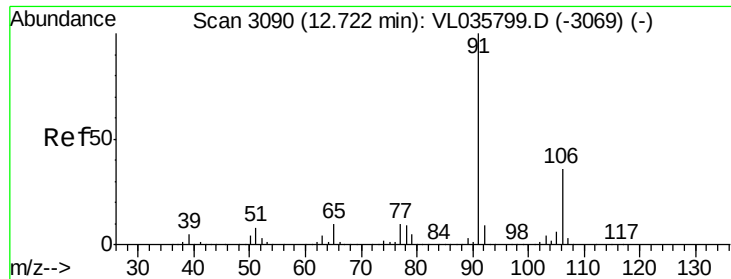
MMDadoda
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.05 min Scan# 2882
Delta R.T. -0.04 min
Lab File: VL035840.D
Acq: 4 Nov 2020 19:28

Tgt Ion: 117 Resp: 4100624
Ion Ratio Lower Upper
117 100
82 56.5 50.6 76.0
119 34.6 52.6 78.8#





#58

Ethyl Benzene

Concen: 0.281 ppbv m

RT: 12.68 min Scan# 3078

Delta R.T. -0.04 min

Lab File: VL035840.D

Acq: 4 Nov 2020 19:28

Instrument :

MSVOA_L

ClientSampled :

SV6

Tot Ion: 91 Resp: 140459

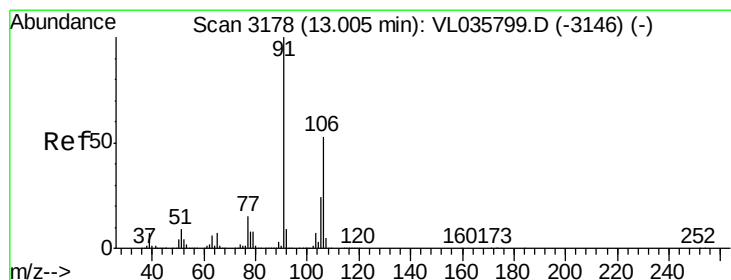
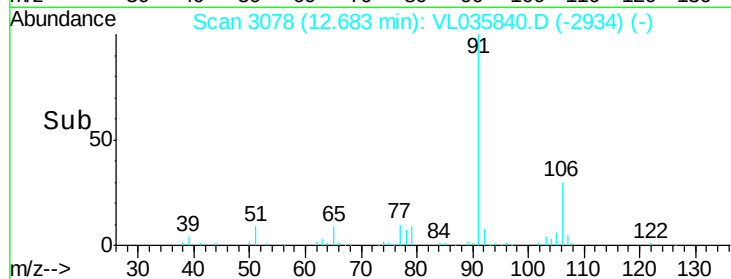
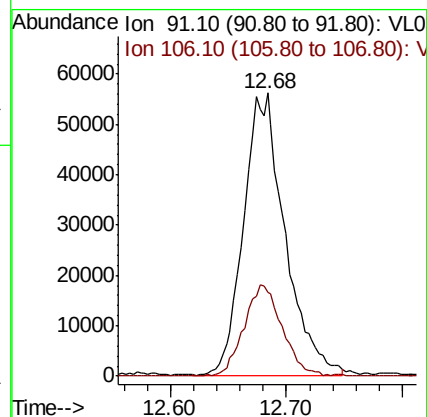
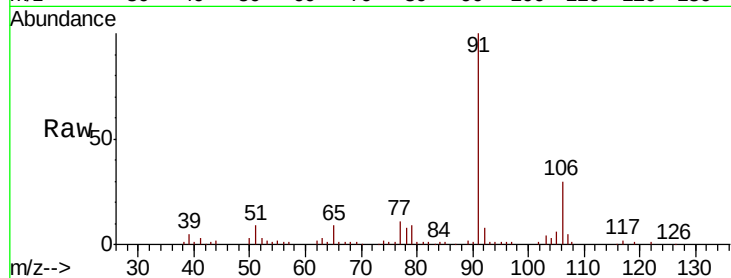
Ion Ratio Lower Upper

91 100

106 29.7 28.6 43.0

Manual Integrations
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#59

m/p-Xylene

Concen: 0.734 ppbv

RT: 12.94 min Scan# 3157

Delta R.T. -0.07 min

Lab File: VL035840.D

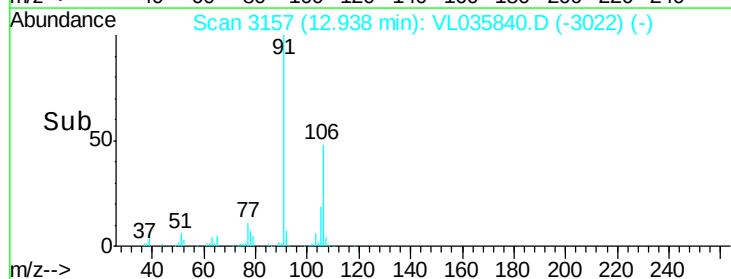
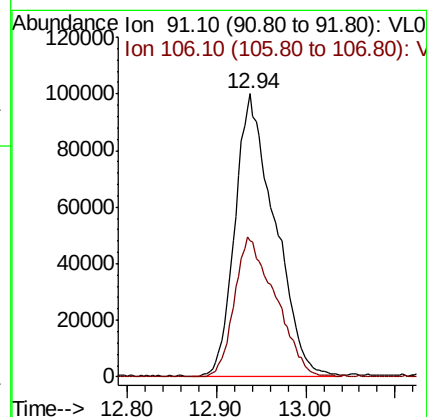
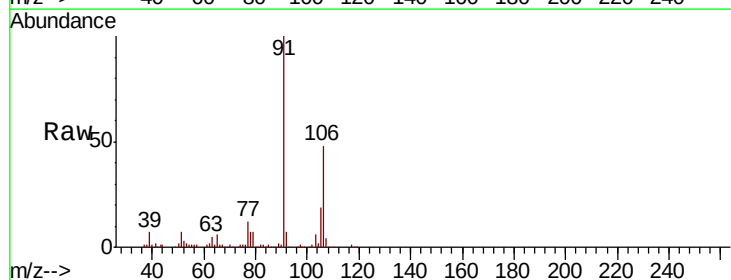
Acq: 4 Nov 2020 19:28

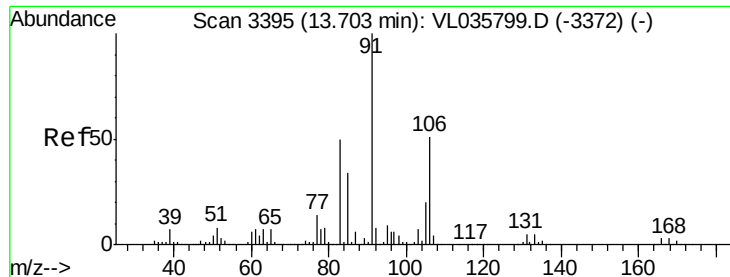
Tgt Ion: 91 Resp: 310320

Ion Ratio Lower Upper

91 100

106 51.2 39.5 59.3





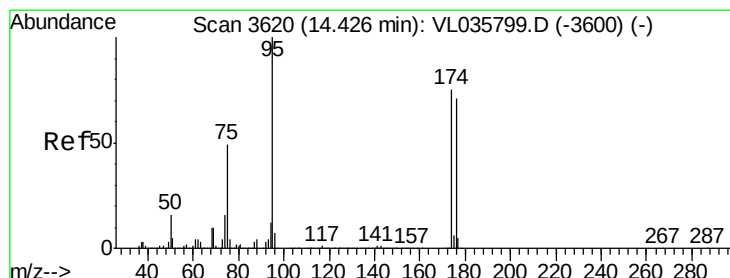
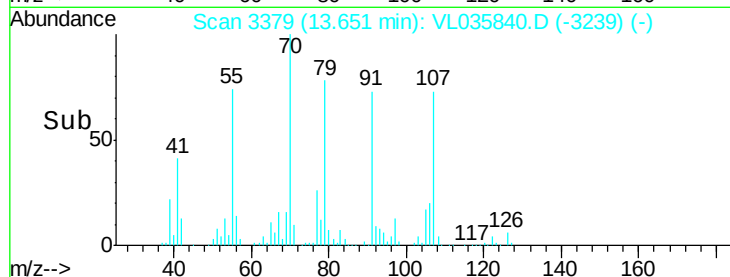
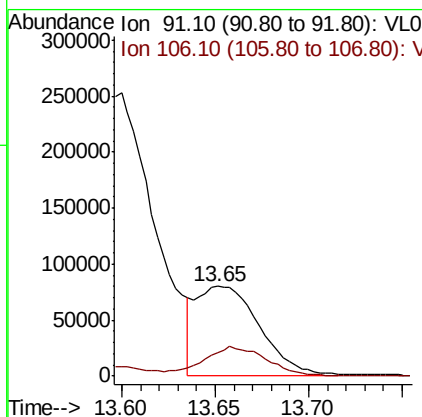
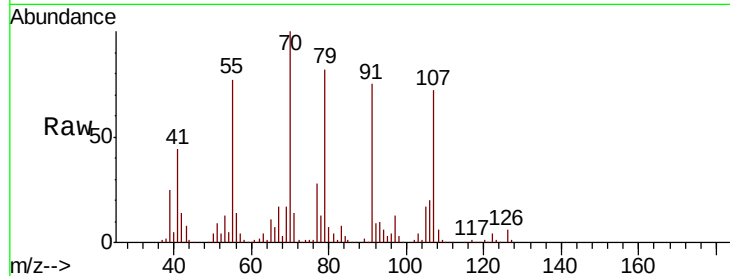
#60
o-Xylene
Concen: 0.463 ppbv m
RT: 13.65 min Scan# 3379
Delta R.T. -0.05 min
Lab File: VL035840.D
Acq: 4 Nov 2020 19:28

Instrument :
MSVOA_L
ClientSampled :
SV6

Tot Ion: 91 Resp: 190152
Ion Ratio Lower Upper
91 100
106 33.3 24.8 74.4

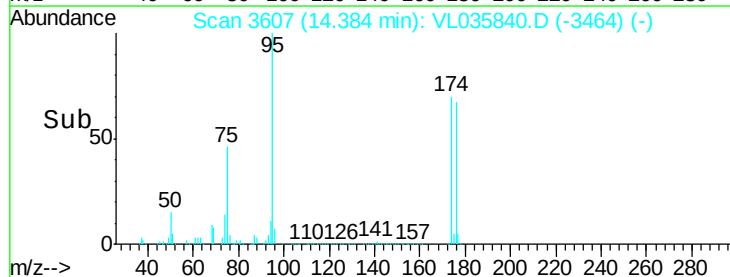
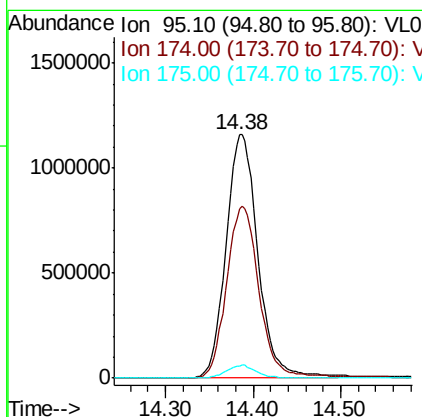
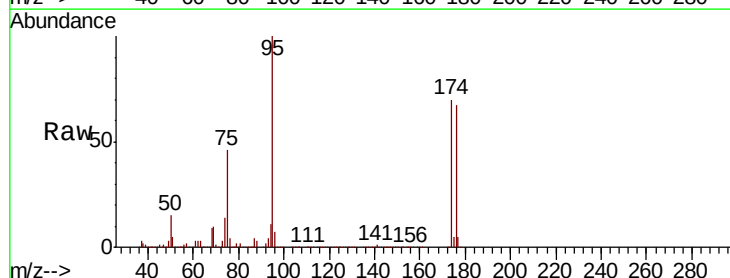
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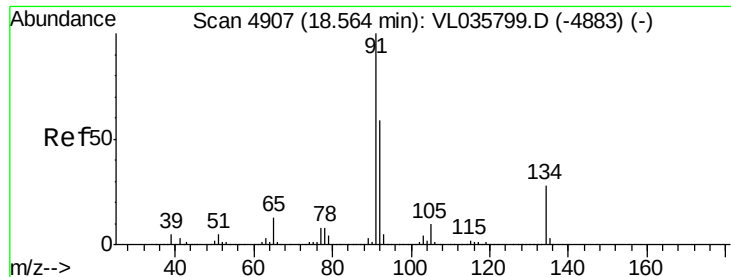
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.056 ppbv
RT: 14.38 min Scan# 3607
Delta R.T. -0.04 min
Lab File: VL035840.D
Acq: 4 Nov 2020 19:28

Tgt Ion: 95 Resp: 2929824
Ion Ratio Lower Upper
95 100
174 73.5 59.8 89.6
175 5.2 4.3 6.5





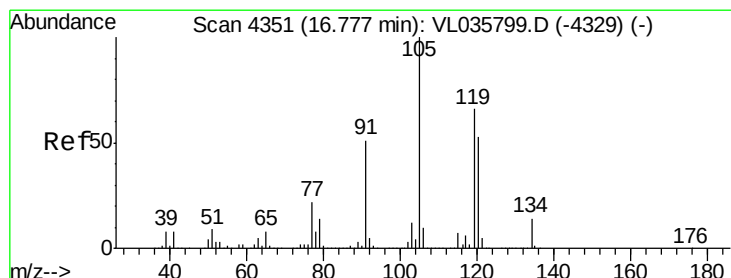
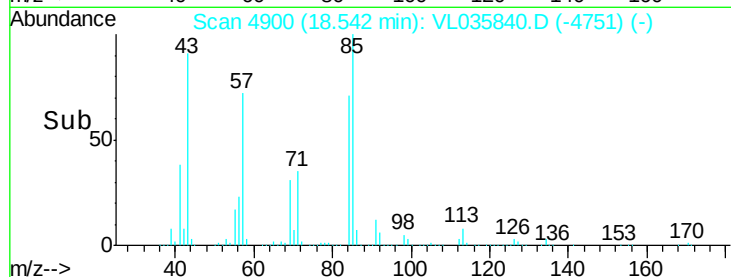
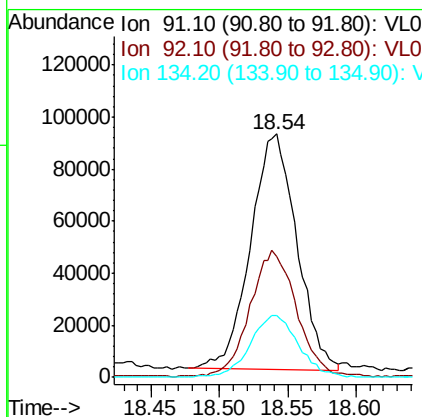
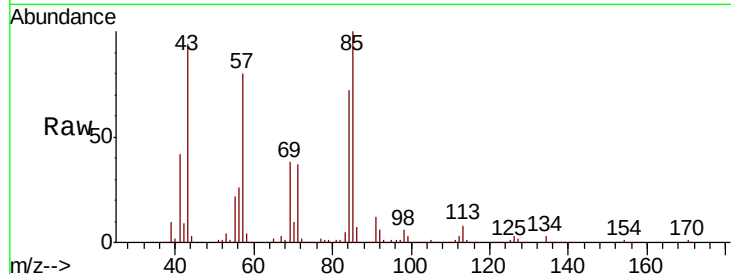
#70
n-Butylbenzene
Concen: 0.337 ppbv
RT: 18.54 min Scan# 4900
Delta R.T. -0.02 min
Lab File: VL035840.D
Acq: 4 Nov 2020 19:28

Instrument :
MSVOA_L
ClientSampled :
SV6

Tot Ion	Ratio	Resp	Lower	Upper
91	100	212477		
92	53.7		45.7	68.5
134	27.5		21.0	31.4

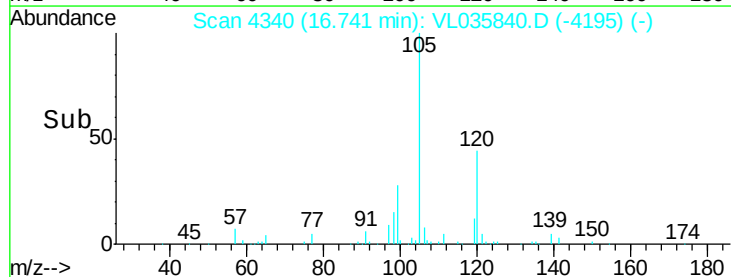
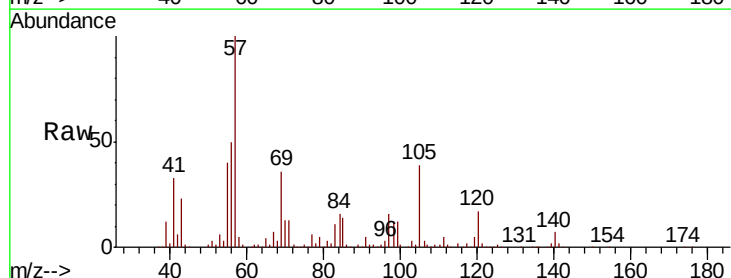
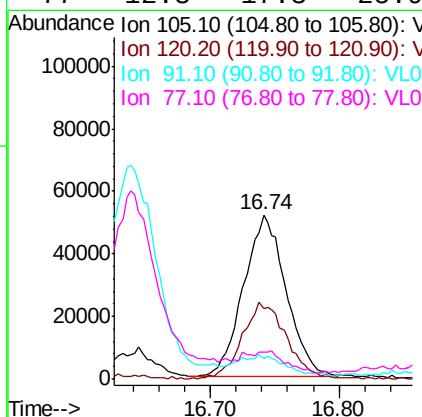
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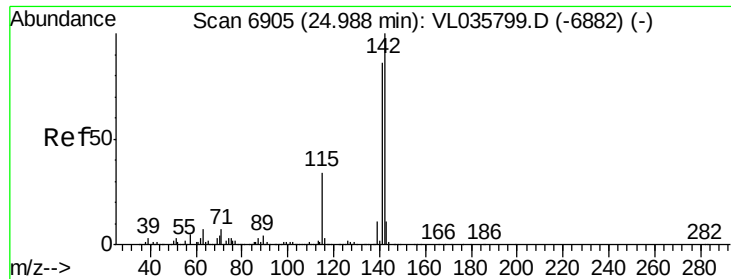
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#74
1,2,4-Trimethylbenzene
Concen: 0.242 ppbv
RT: 16.74 min Scan# 4340
Delta R.T. -0.04 min
Lab File: VL035840.D
Acq: 4 Nov 2020 19:28

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	118179		
120	44.0		42.0	63.0
91	10.3		41.0	61.6#
77	12.3		17.3	25.9#





#80

Naphthalene, 2-methyl-

Concen: 0.173 ppbv m

RT: 24.95 min Scan# 6892

Delta R.T. -0.04 min

Lab File: VL035840.D

Acq: 4 Nov 2020 19:28

Instrument :

MSVOA_L

ClientSampleId :

SV6

Tot Ion:	142	Resp:	9586
Ion Ratio	Lower	Upper	
142	100		
141	0.0	67.8	101.8#
115	0.0	28.1	42.1#

Manual Integrations
APPROVED

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11/5/2020 2:17:10 PM

