

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111620\
 Data File : VL035953.D
 Acq On : 16 Nov 2020 21:14
 Operator : SY/AP
 Sample : L4722-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-4

Manual Integrations
 APPROVED

MMDadoda
 11/18/2020 9:07:49 AM

Quant Time: Nov 17 22:12:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 0
 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	5.67	49	1207168	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4196875	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3908832	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3002669	10.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	53720	0.236	ppbv	99
3) Chlorodifluoromethane	2.98	51	1009822	6.985	ppbv #	90
4) Chloromethane	3.13	50	95342	1.358	ppbv	97
9) Propene	3.01	41	131729m	2.490	ppbv	
10) Heptane	8.12	43	488425	3.342	ppbv	98
11) Trichlorofluoromethane	3.95	101	64466	0.226	ppbv	97
13) Ethanol	3.64	45	15667935	1364.939	ppbv	98
15) Acetone	3.84	43	12559948	97.321	ppbv #	85
19) Isopropyl Alcohol	4.01	45	4011016	50.574	ppbv #	1
20) Methylene Chloride	4.35	84	137213	1.510	ppbv	97
26) Hexane	5.69	57	255634	1.823	ppbv #	72
29) Chloroform	5.75	83	105375	0.382	ppbv	89
34) 2-Butanone	5.25	43	123542	0.907	ppbv	96
35) Carbon Tetrachloride	7.02	117	17094	0.076	ppbv	91
36) Benzene	6.90	78	275341	0.882	ppbv	96
44) 2,2,4-Trimethylpentane	7.87	57	84247	0.204	ppbv #	53
52) Tetrachloroethene	11.23	164	5277m	0.036	ppbv	
53) Toluene	9.81	91	849992	2.258	ppbv	97
58) Ethyl Benzene	12.72	91	368602	0.774	ppbv	92
59) m/p-Xylene	12.97	91	1381277	3.429	ppbv	100
60) o-Xylene	13.70	91	313235	0.799	ppbv	96
61) Styrene	13.53	104	28605	0.100	ppbv	90
74) 1,2,4-Trimethylbenzene	16.77	105	74469	0.160	ppbv #	70
76) 1,4-Dichlorobenzene	17.15	146	28839m	0.101	ppbv	

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

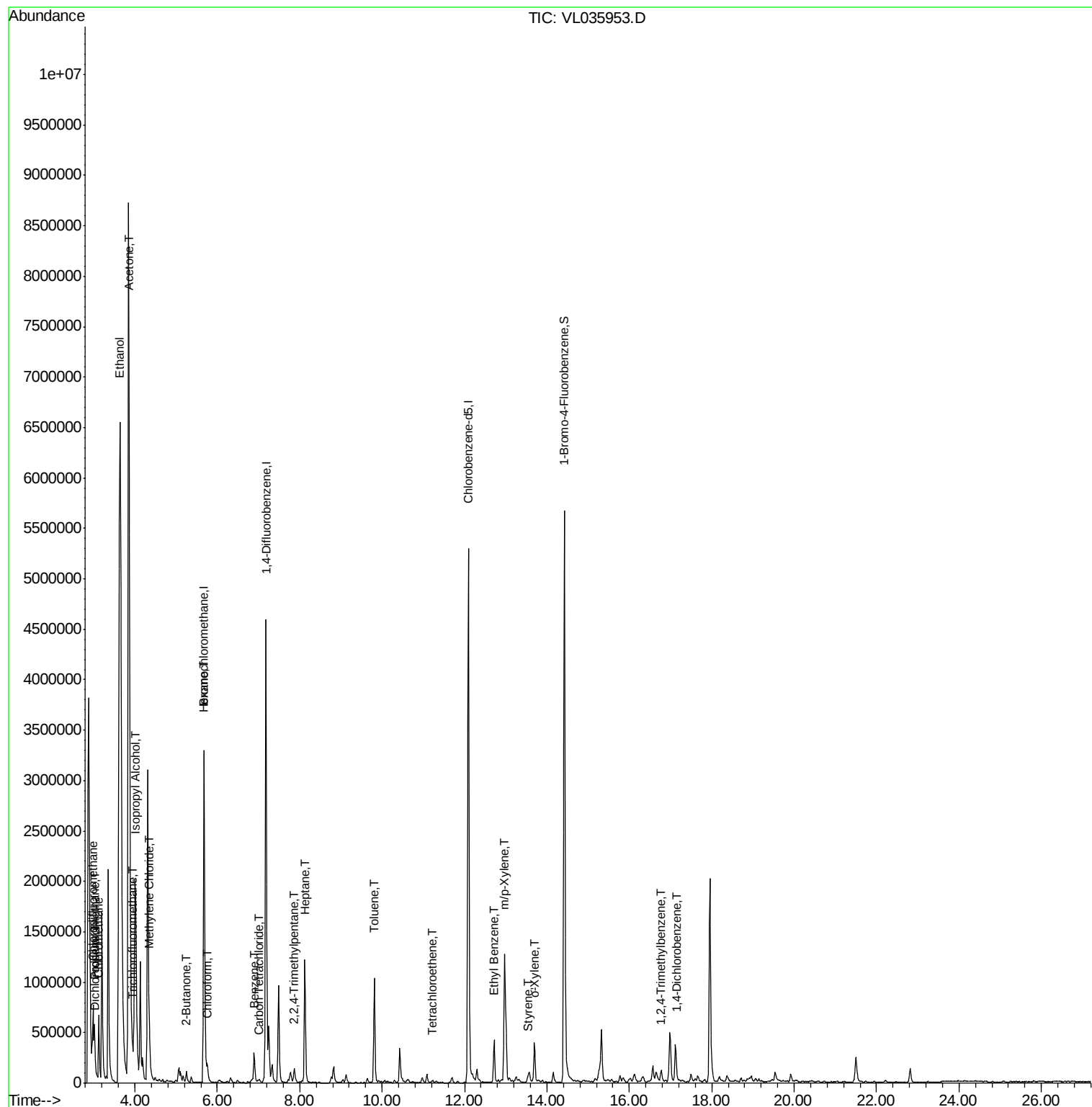
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111620\
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Quant Time: Nov 17 22:12:40 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL035953.D

Acq: 16 Nov 2020 21:14

Instrument :

MSVOA_L

ClientSampleId :

SR-4

Tot Ion: 49 Resp: 1207168

Ion Ratio Lower Upper

49 100

128 76.5 41.5 124.6

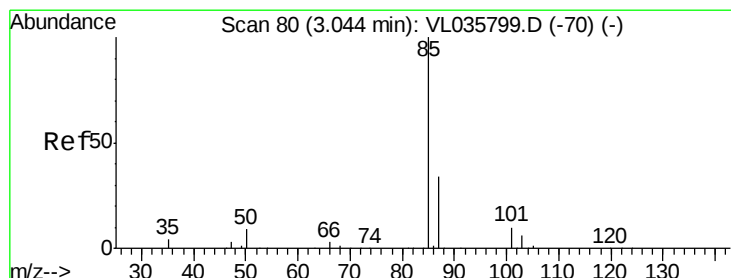
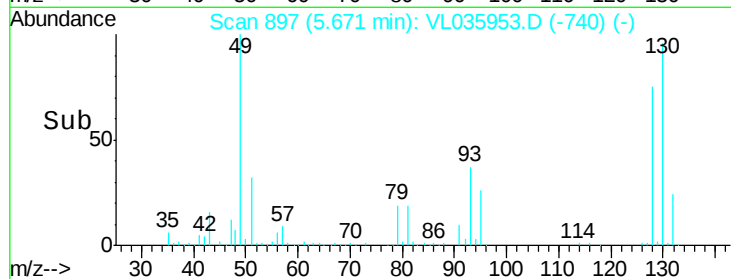
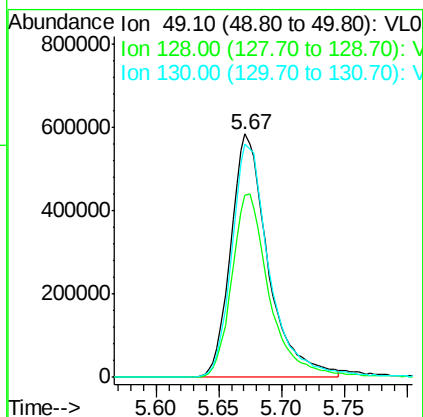
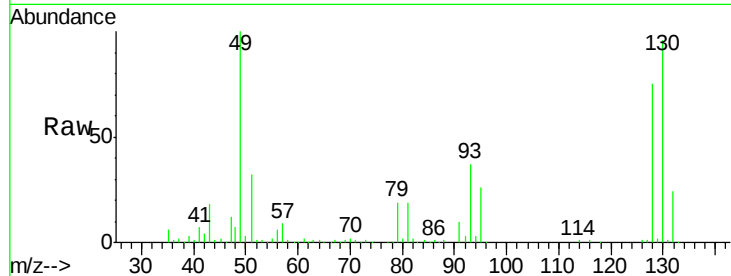
130 98.2 53.7 161.1

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#2

Dichlorodifluoromethane

Concen: 0.236 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL035953.D

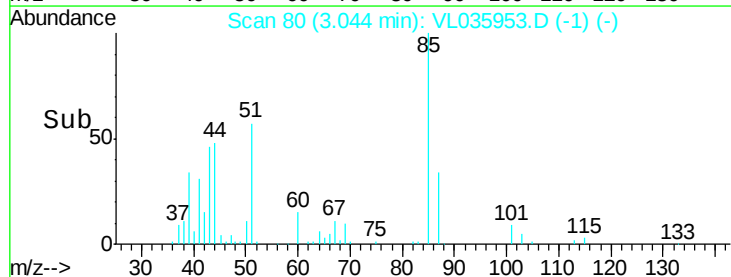
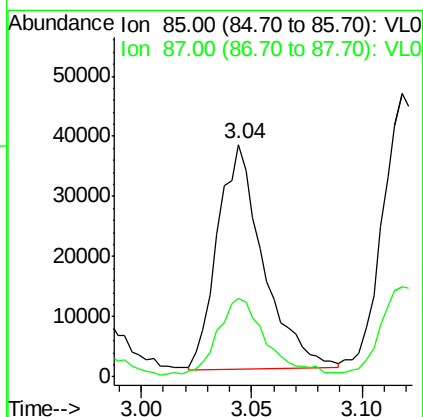
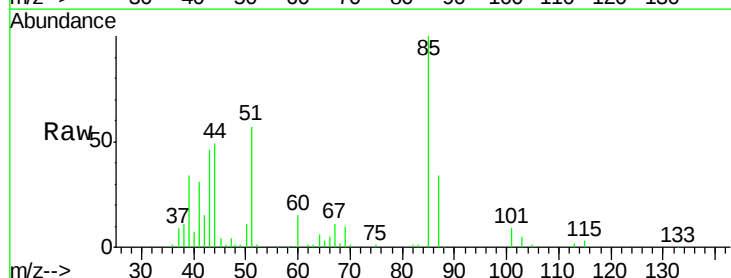
Acq: 16 Nov 2020 21:14

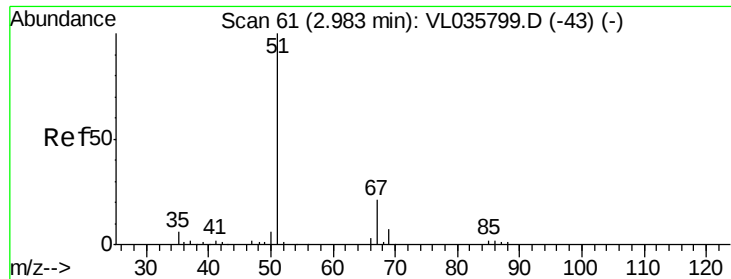
Tgt Ion: 85 Resp: 53720

Ion Ratio Lower Upper

85 100

87 33.4 27.1 40.7





#3

Chlorodifluoromethane

Concen: 6.985 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL035953.D

Acq: 16 Nov 2020 21:14

Instrument :

MSVOA_L

ClientSampleId :

SR-4

Tot Ion: 51 Resp: 1009822

Ion Ratio Lower Upper

51 100

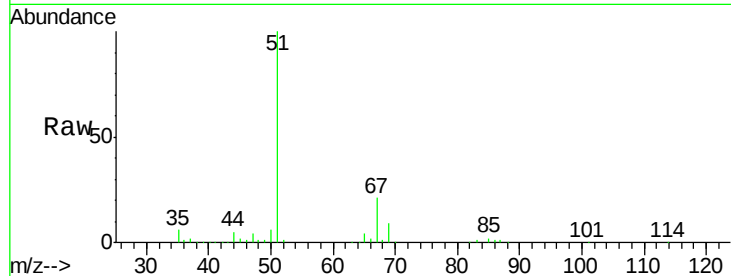
67 16.3 17.0 25.4#

Manual Integrations

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.98

400000

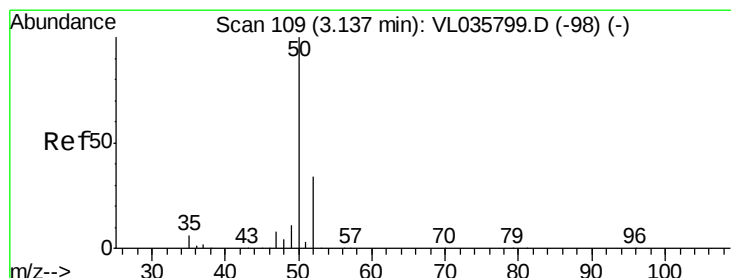
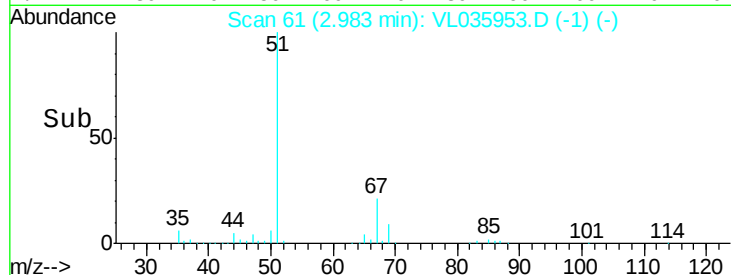
300000

200000

100000

0

Time-->



#4

Chloromethane

Concen: 1.358 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL035953.D

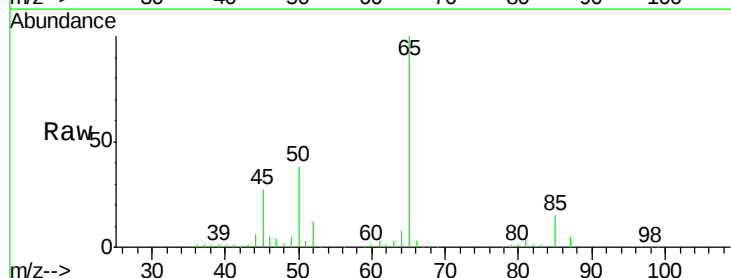
Acq: 16 Nov 2020 21:14

Tgt Ion: 50 Resp: 95342

Ion Ratio Lower Upper

50 100

52 32.1 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.13

60000

50000

40000

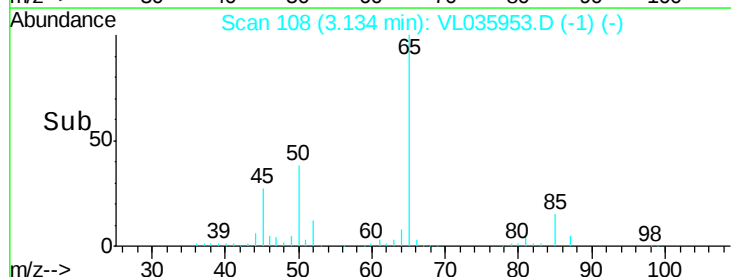
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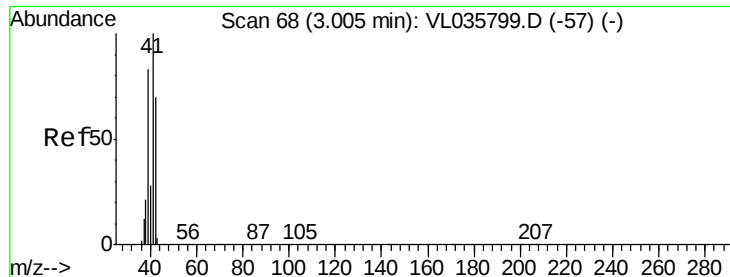
20000

10000

0

Time-->





#9

Propene

Concen: 2.490 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035953.D

Acq: 16 Nov 2020 21:14

Instrument :

MSVOA_L

ClientSampleId :

SR-4

Tot Ion: 41 Resp: 131729

Ion Ratio Lower Upper

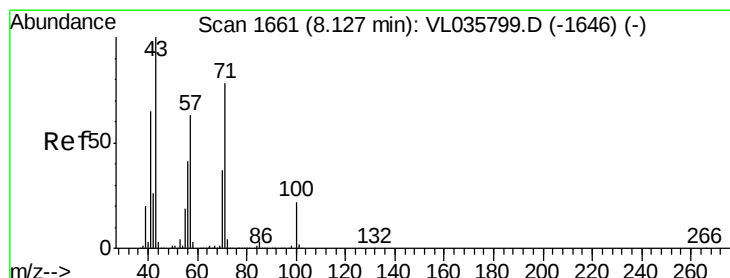
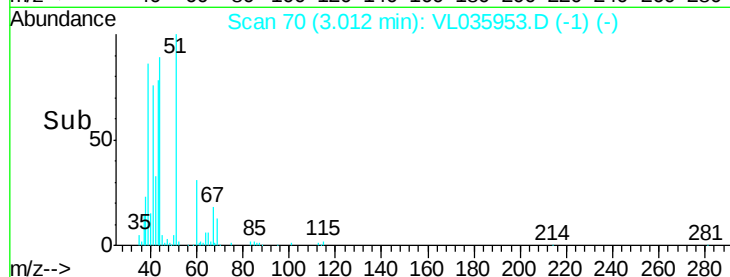
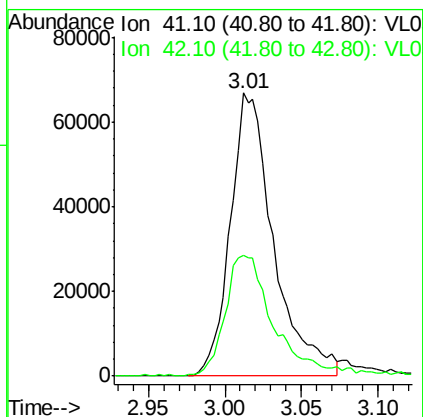
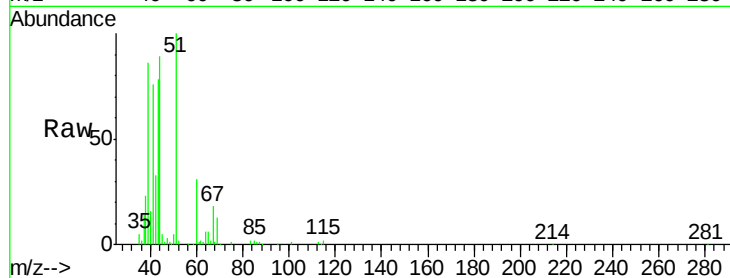
41 100

42 301.0 56.2 84.4#

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#10

Heptane

Concen: 3.342 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VL035953.D

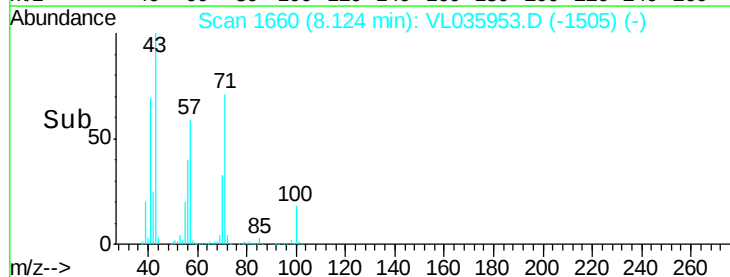
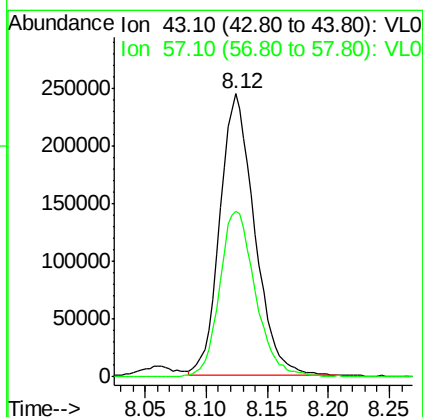
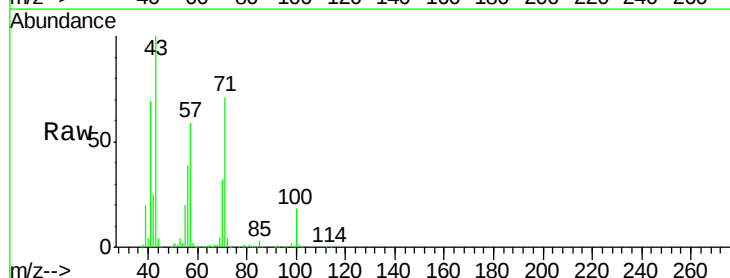
Acq: 16 Nov 2020 21:14

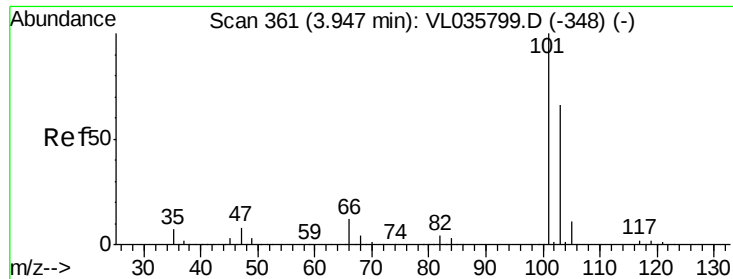
Tgt Ion: 43 Resp: 488425

Ion Ratio Lower Upper

43 100

57 60.6 50.0 75.0





#11

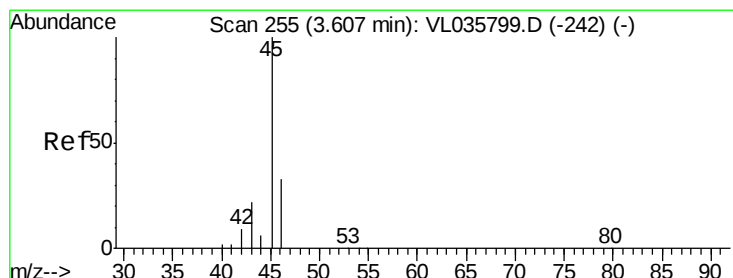
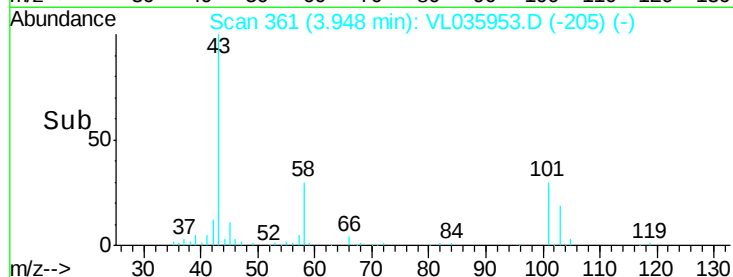
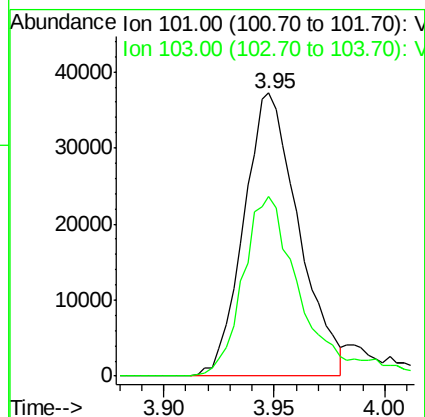
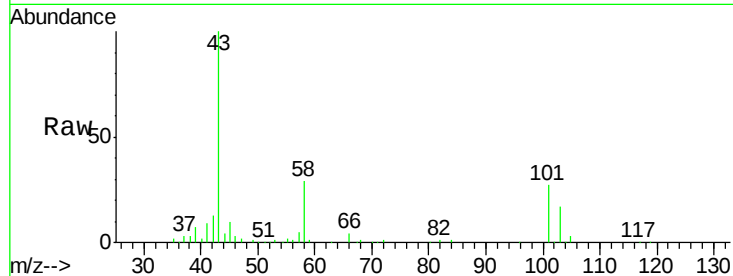
Trichlorofluoromethane
Concen: 0.226 ppbv
RT: 3.95 min Scan# 361
Delta R.T. 0.00 min
Lab File: VL035953.D
Acq: 16 Nov 2020 21:14

Instrument :
MSVOA_L
ClientSampled :
SR-4

Tot Ion:101 Resp: 64466
Ion Ratio Lower Upper
101 100
103 63.7 53.0 79.4

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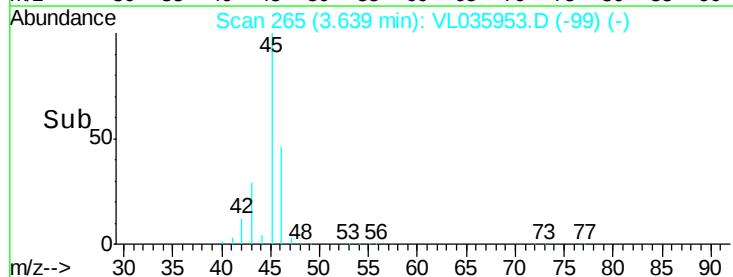
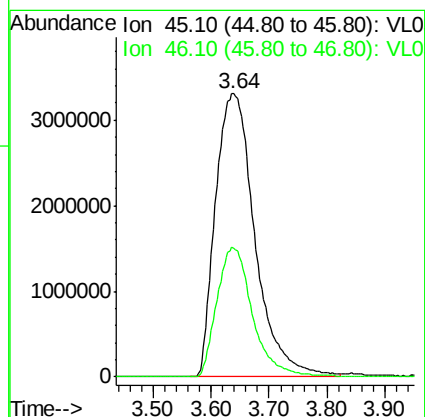
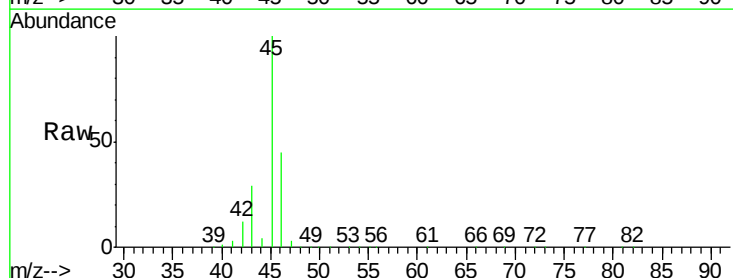
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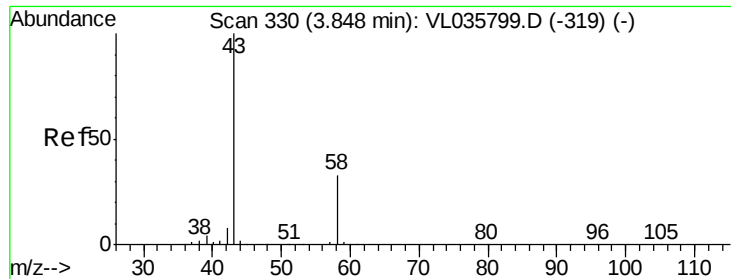


#13

Ethanol
Concen: 1364.939 ppbv
RT: 3.64 min Scan# 265
Delta R.T. 0.03 min
Lab File: VL035953.D
Acq: 16 Nov 2020 21:14

Tgt Ion: 45 Resp:15667935
Ion Ratio Lower Upper
45 100
46 41.7 16.1 64.5





#15

Acetone

Concen: 97.321 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL035953.D

Acq: 16 Nov 2020 21:14

Instrument :

MSVOA_L

ClientSampled :

SR-4

Tot Ion: 43 Resp:12559948

Ion Ratio Lower Upper

43 100

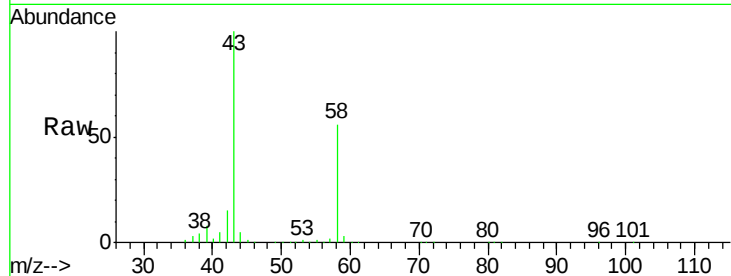
58 43.2 27.5 41.3#

Manual Integrations

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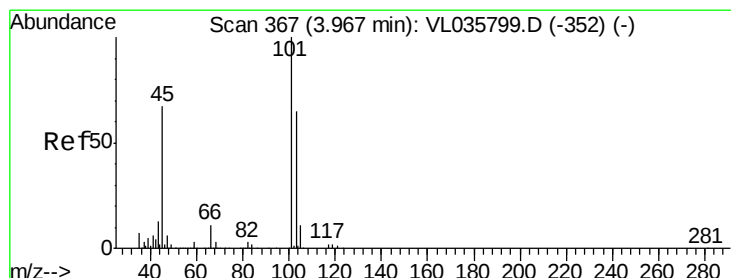
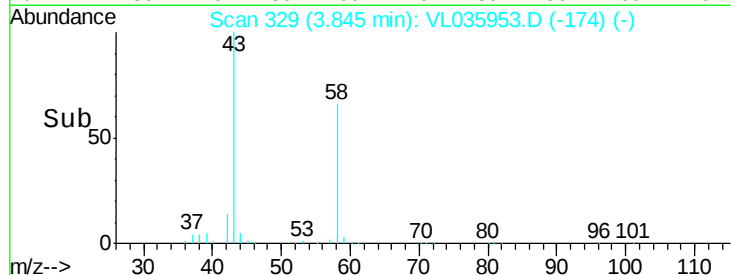
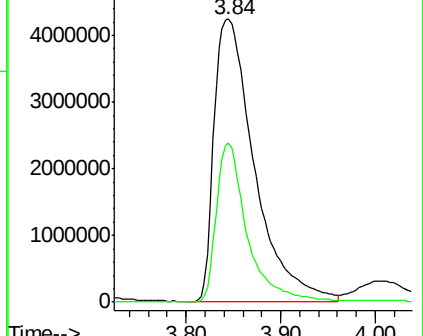
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 50.574 ppbv

RT: 4.01 min Scan# 380

Delta R.T. 0.04 min

Lab File: VL035953.D

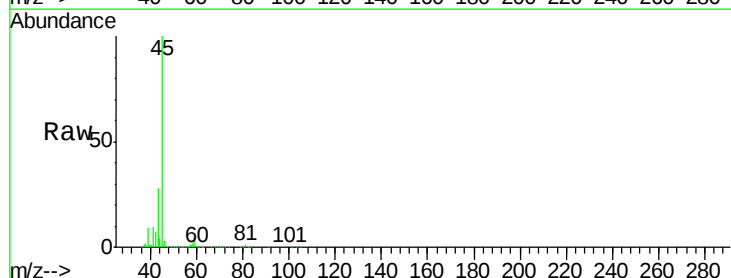
Acq: 16 Nov 2020 21:14

Tgt Ion: 45 Resp: 4011016

Ion Ratio Lower Upper

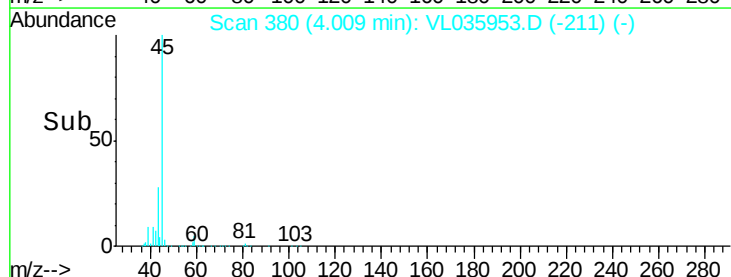
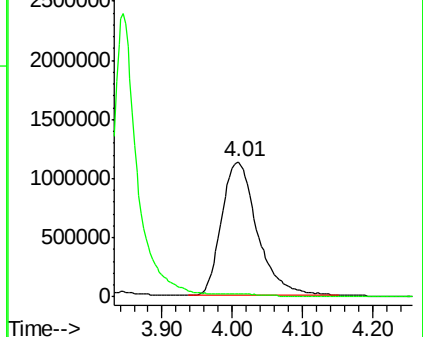
45 100

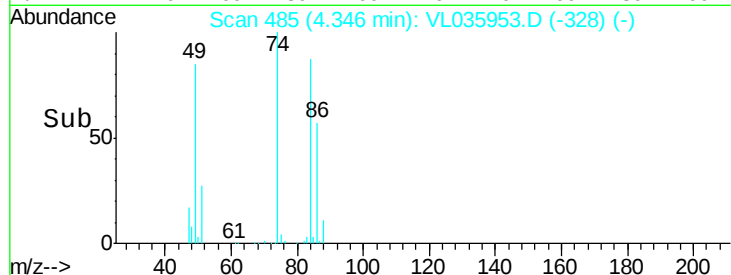
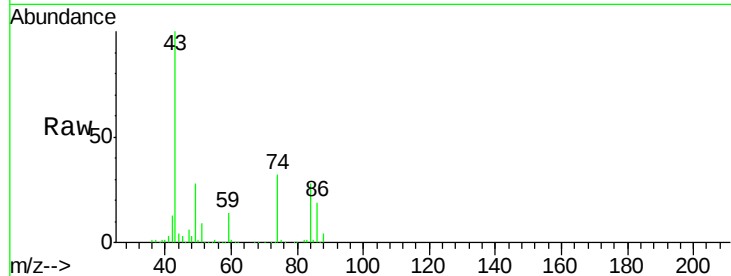
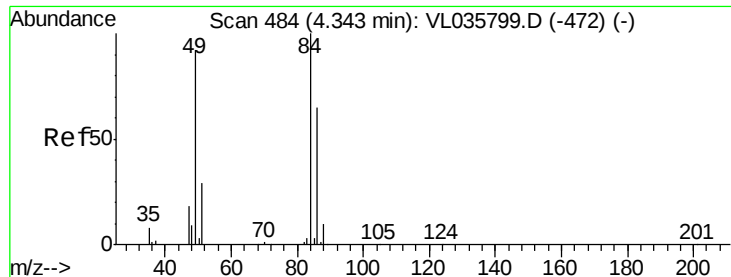
58 135.6 2.6 3.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





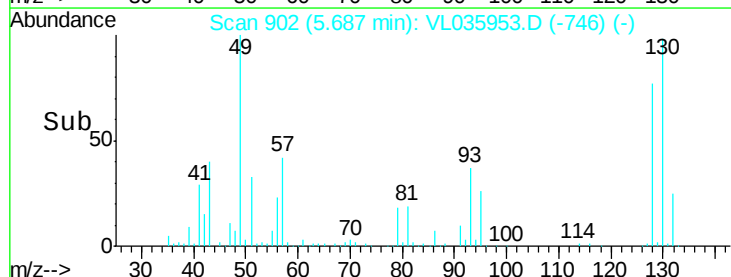
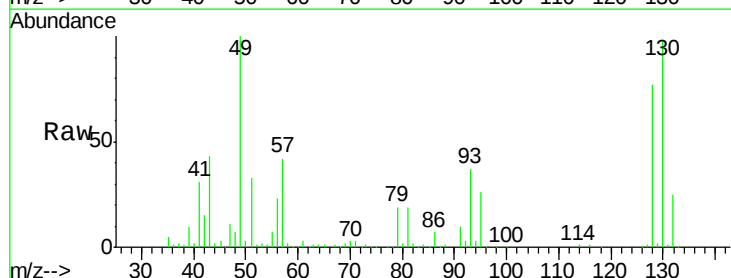
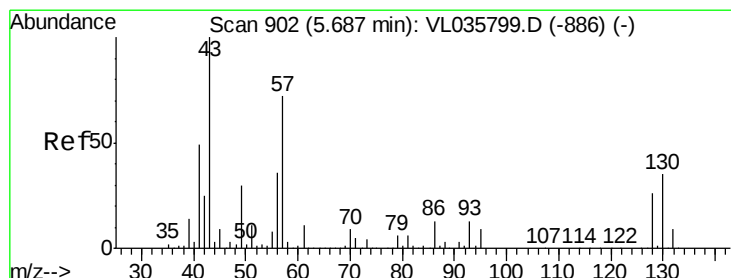
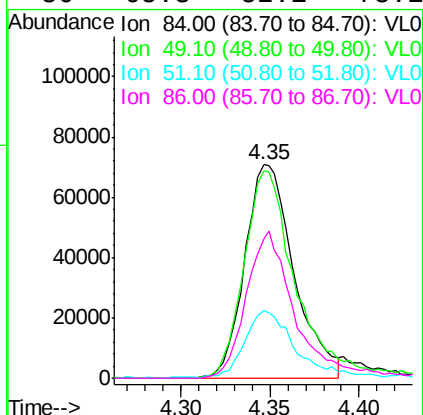
#20
Methvlene Chloride
Concen: 1.510 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.00 min
Lab File: VL035953.D
Acq: 16 Nov 2020 21:14

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	97.1	73.8	110.8	
51	31.1	23.0	34.4	
86	65.3	52.1	78.1	

Instrument :
MSVOA_L
ClientSampleId :
SR-4

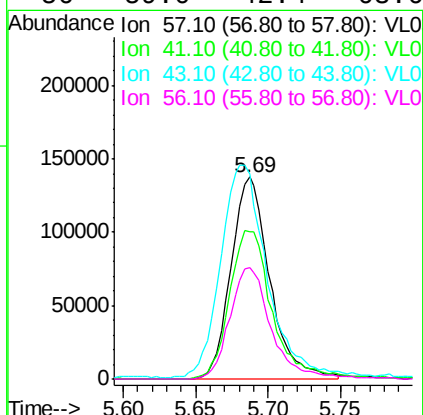
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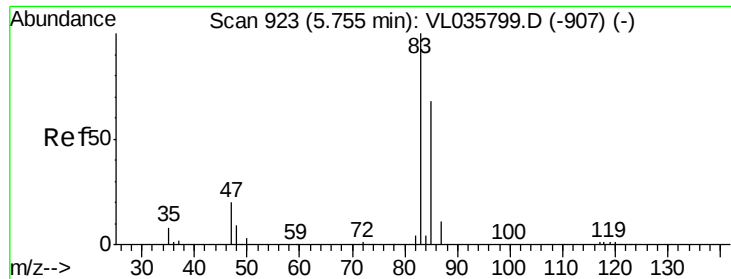
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#26
Hexane
Concen: 1.823 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL035953.D
Acq: 16 Nov 2020 21:14

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	80.9	58.9	88.3	
43	127.5	150.2	225.2	
56	59.0	42.4	63.6	





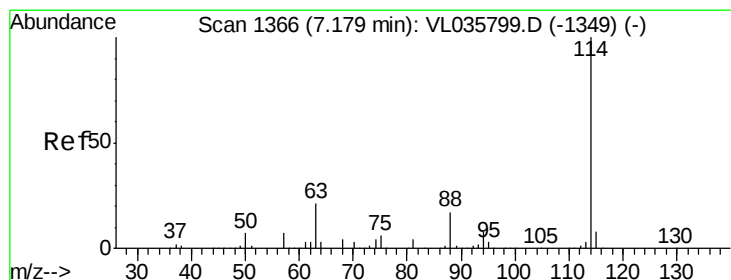
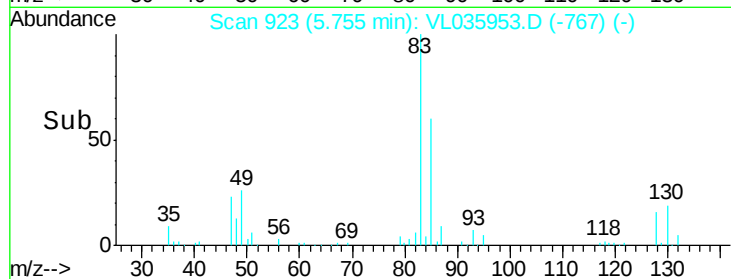
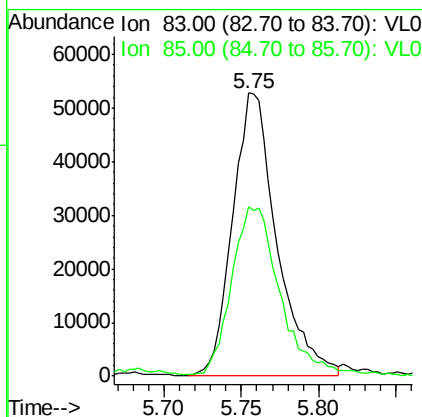
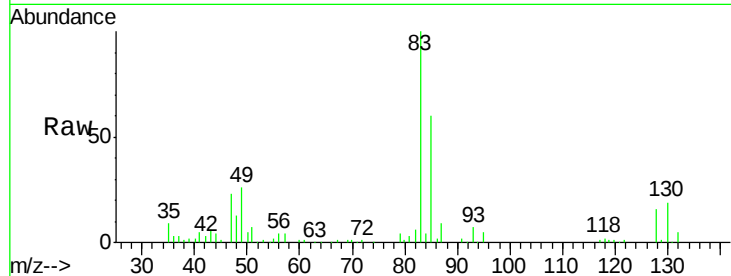
#29
Chloroform
Concen: 0.382 ppbv
RT: 5.75 min Scan# 923
Delta R.T. 0.00 min
Lab File: VL035953.D
Acq: 16 Nov 2020 21:14

Instrument :
MSVOA_L
ClientSampled :
SR-4

Tot Ion: 83 Resp: 105375
Ion Ratio Lower Upper
83 100
85 59.0 54.6 81.8

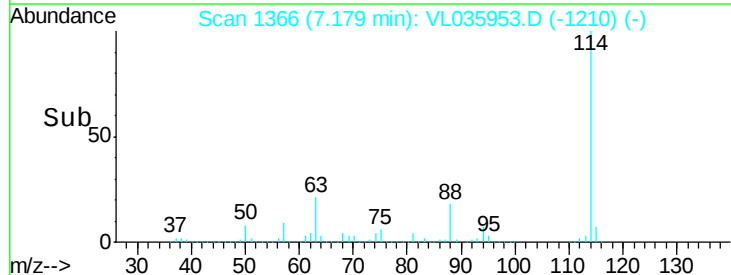
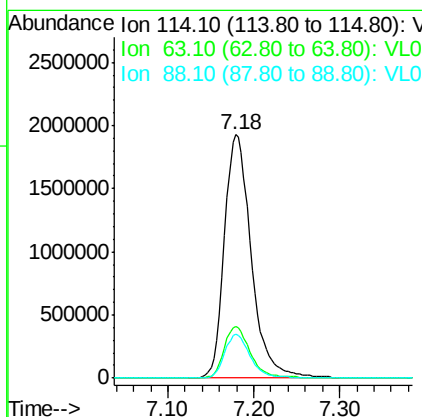
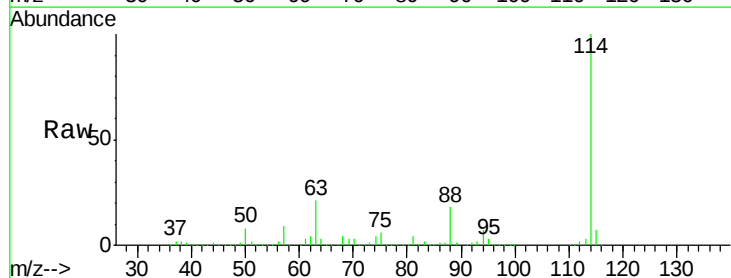
Manual Integrations
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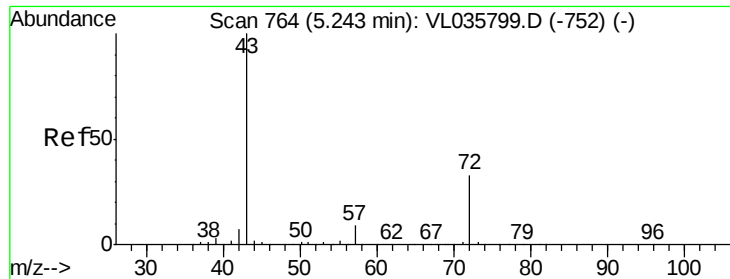
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.00 min
Lab File: VL035953.D
Acq: 16 Nov 2020 21:14

Tgt Ion: 114 Resp: 4196875
Ion Ratio Lower Upper
114 100
63 20.8 16.1 24.1
88 17.4 13.7 20.5





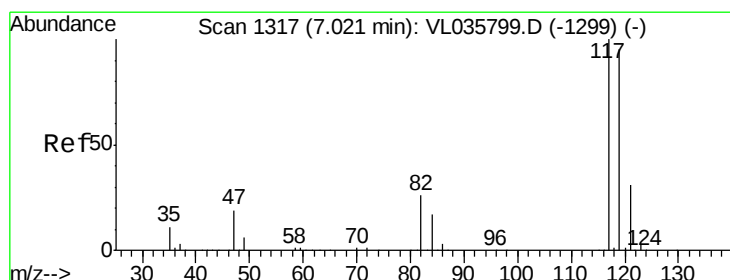
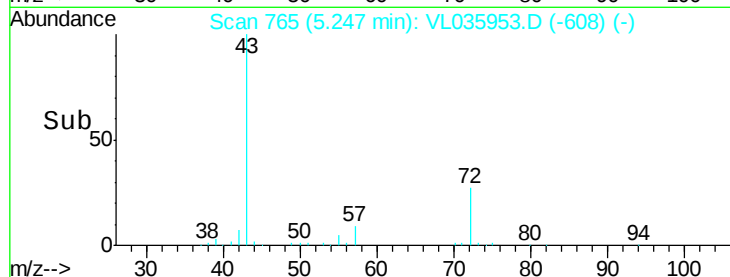
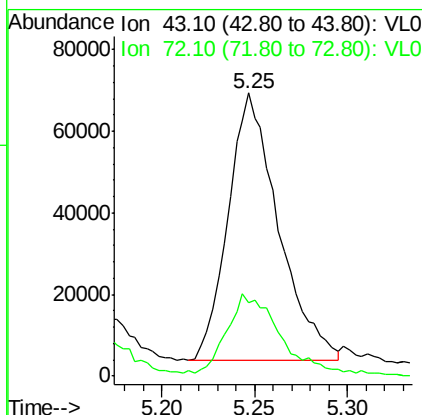
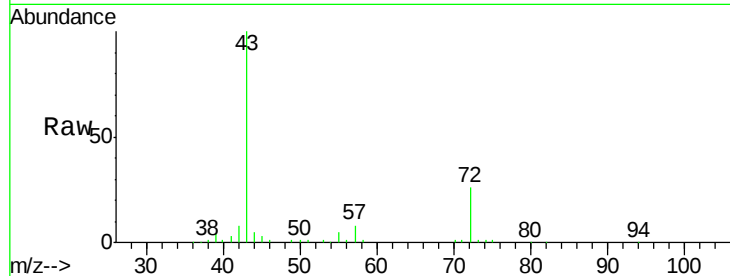
#34
2-Butanone
Concen: 0.907 ppbv
RT: 5.25 min Scan# 765
Delta R.T. 0.00 min
Lab File: VL035953.D
Acq: 16 Nov 2020 21:14

Instrument :
MSVOA_L
ClientSampled :
SR-4

Tot Ion	Ratio	Lower	Upper
43	100		
72	35.3	26.5	39.7

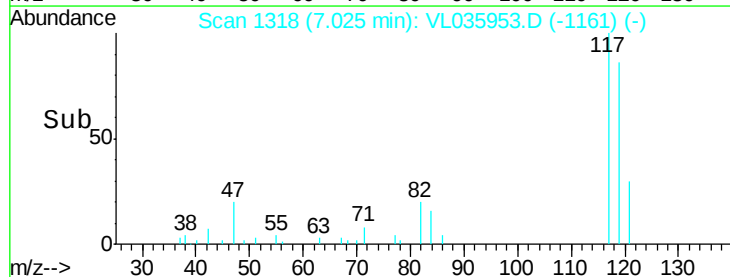
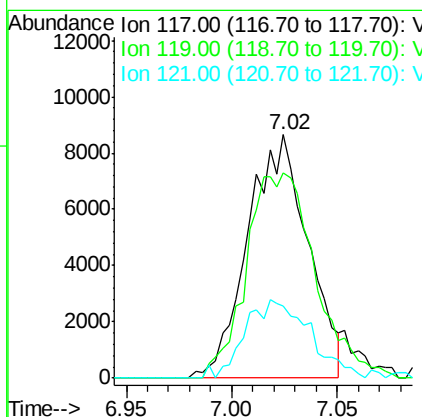
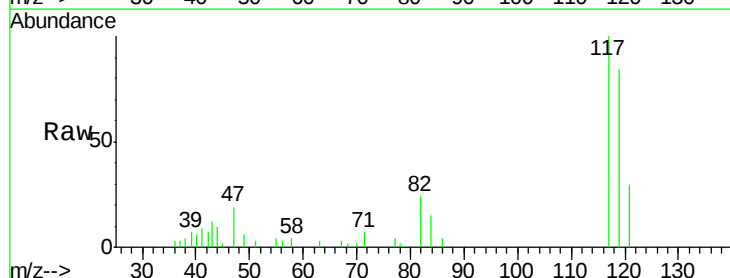
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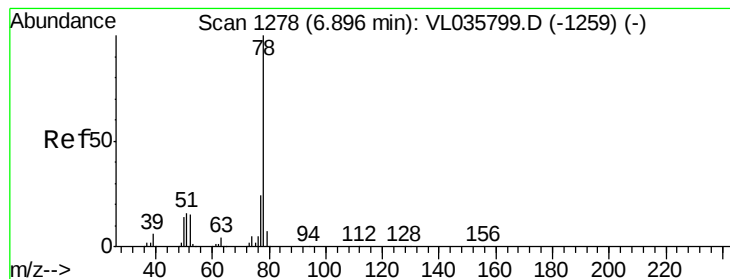
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#35
Carbon Tetrachloride
Concen: 0.076 ppbv
RT: 7.02 min Scan# 1318
Delta R.T. 0.00 min
Lab File: VL035953.D
Acq: 16 Nov 2020 21:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	84.5	75.6	113.4
121	29.7	25.1	37.7





#36

Benzene

Concen: 0.882 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. 0.00 min

Lab File: VL035953.D

Acq: 16 Nov 2020 21:14

Instrument :

MSVOA_L

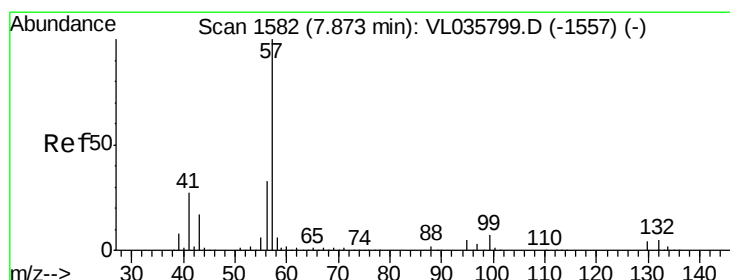
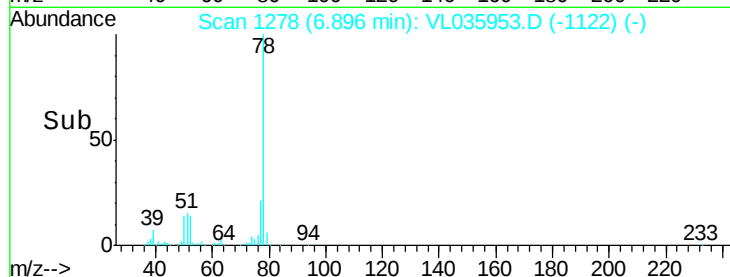
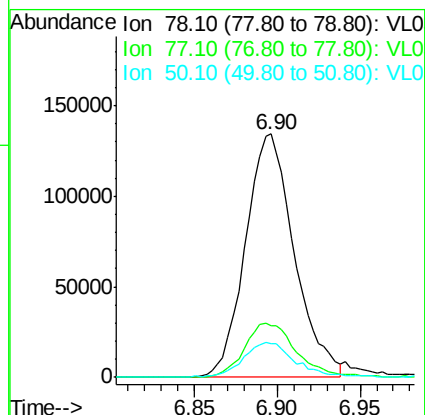
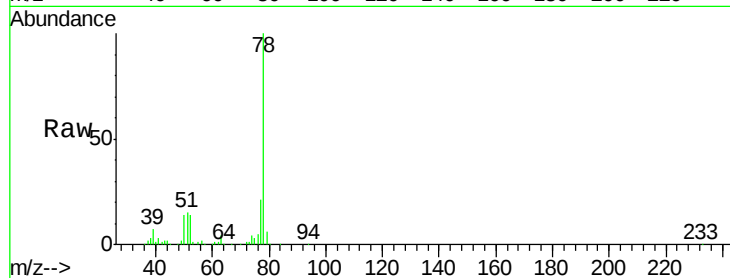
ClientSampleId :

SR-4

Tot Ion:	78	Resp:	275341
Ion	Ratio	Lower	Upper
78	100		
77	21.1	19.3	28.9
50	13.7	11.4	17.2

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#44

2,2,4-Trimethylpentane

Concen: 0.204 ppbv

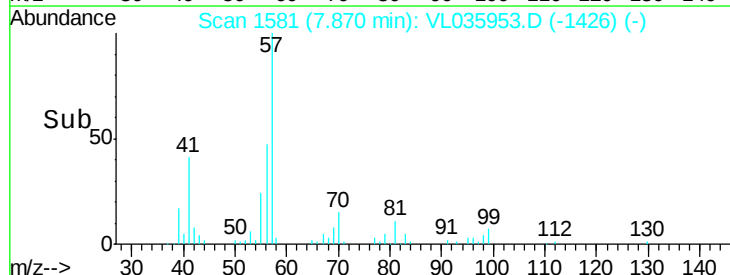
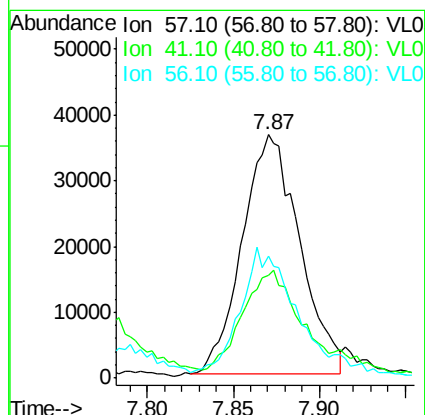
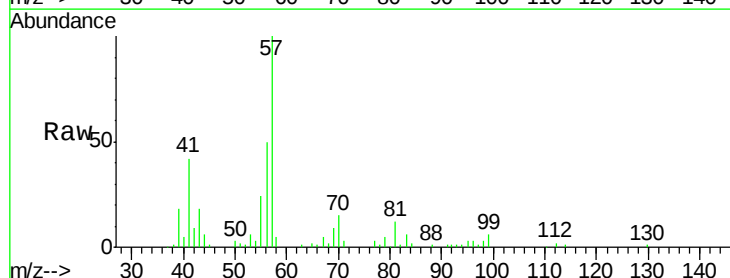
RT: 7.87 min Scan# 1581

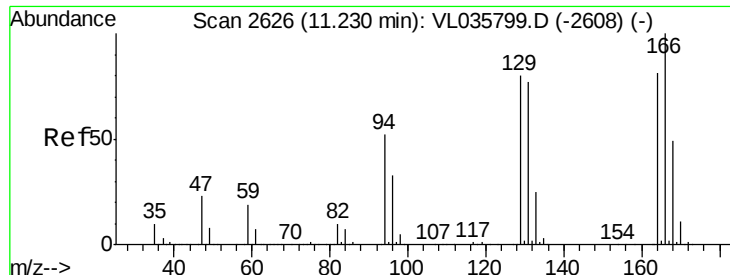
Delta R.T. -0.00 min

Lab File: VL035953.D

Acq: 16 Nov 2020 21:14

Tgt Ion:	57	Resp:	84247
Ion	Ratio	Lower	Upper
57	100		
41	51.7	21.0	31.4#
56	56.4	25.4	38.0#





#52

Tetrachloroethene

Concen: 0.036 ppbv m

RT: 11.23 min Scan# 2625

Delta R.T. -0.00 min

Lab File: VL035953.D

Acq: 16 Nov 2020 21:14

Instrument :

MSVOA_L

ClientSampleId :

SR-4

Tot Ion:164 Resp: 5277

Ion Ratio Lower Upper

164 100

166 104.6 99.3 148.9

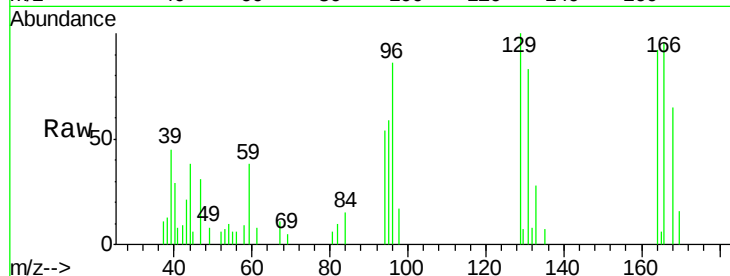
129 108.6 79.3 118.9

131 90.2 76.5 114.7

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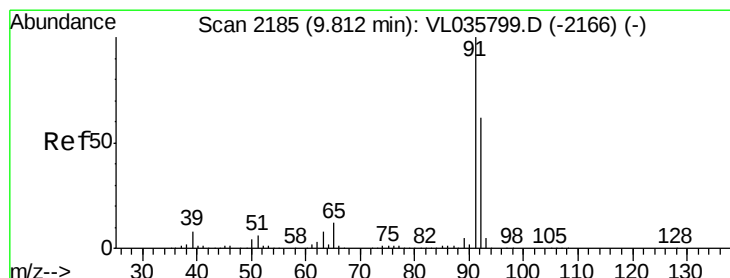
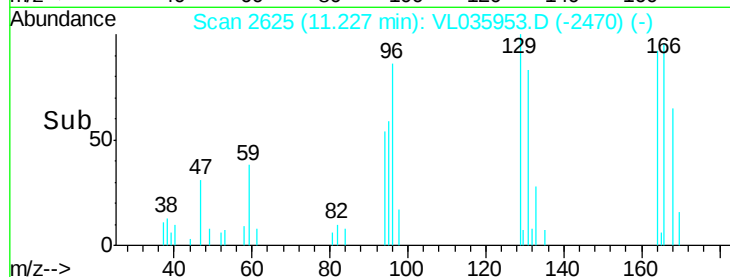
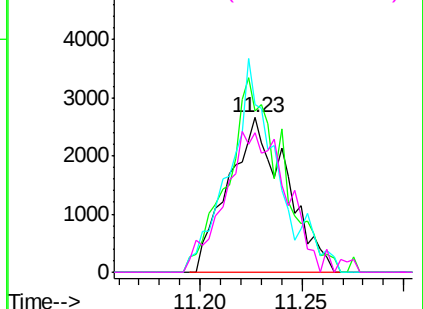


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.258 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. 0.00 min

Lab File: VL035953.D

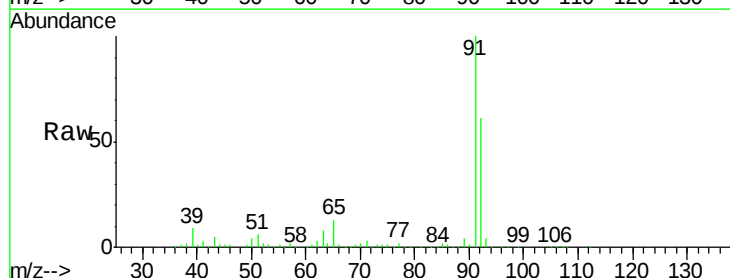
Acq: 16 Nov 2020 21:14

Tgt Ion: 91 Resp: 849992

Ion Ratio Lower Upper

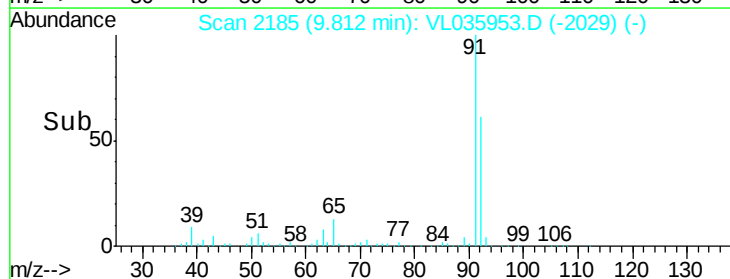
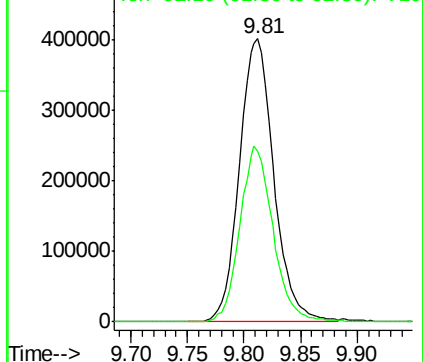
91 100

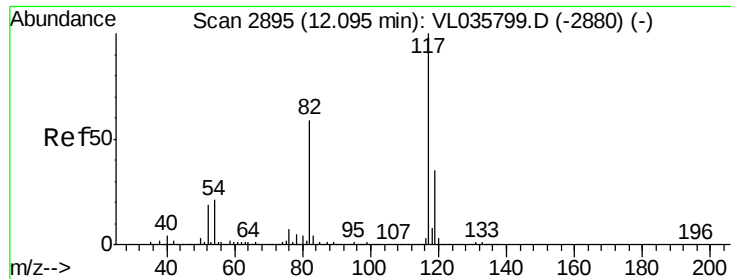
92 60.2 49.8 74.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





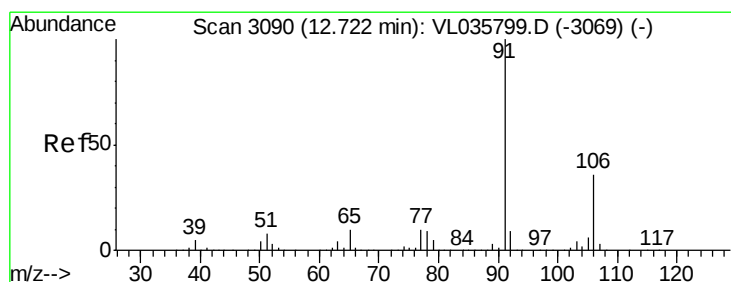
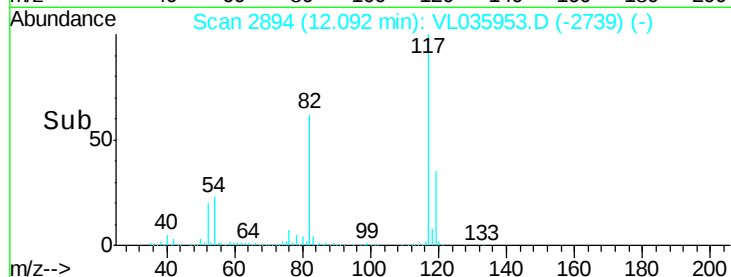
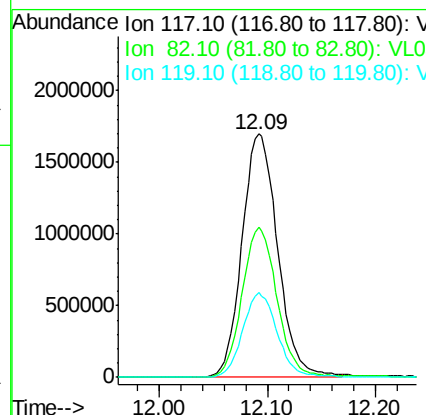
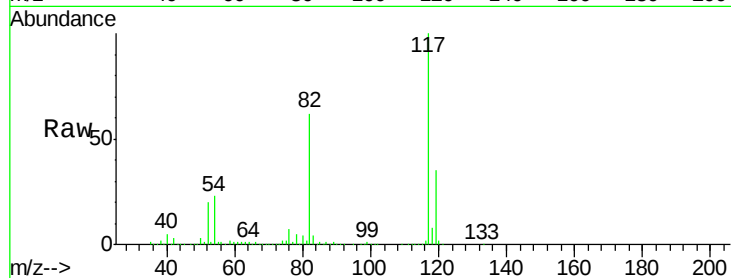
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL035953.D
Acq: 16 Nov 2020 21:14

Instrument :
MSVOA_L
ClientSampled :
SR-4

Tot Ion:117 Resp: 3908832
Ion Ratio Lower Upper
117 100
82 61.6 50.6 76.0
119 34.2 52.6 78.8#

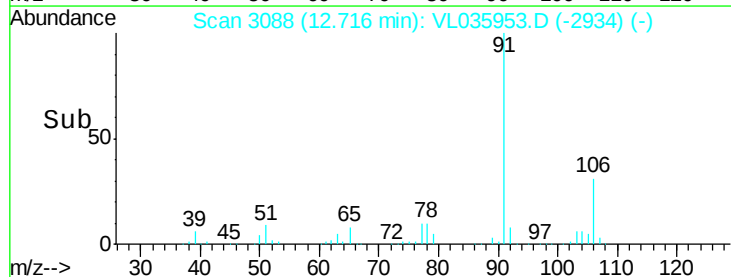
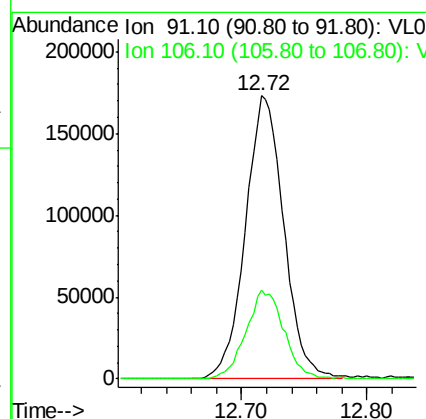
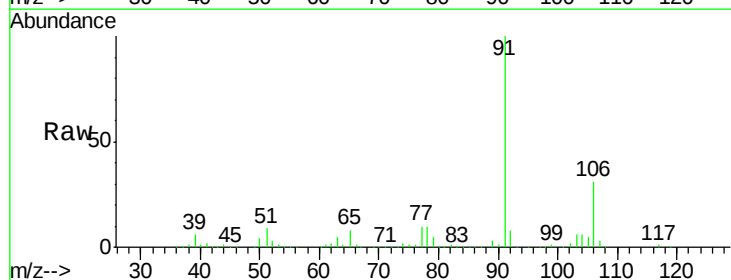
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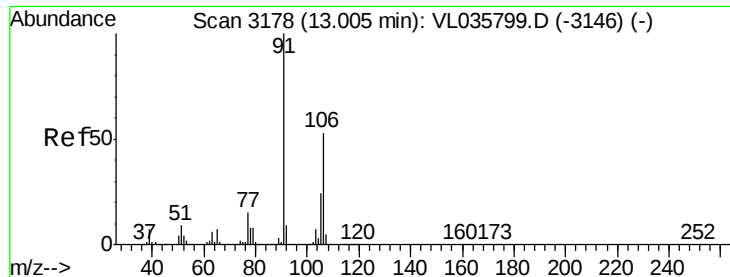
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#58
Ethyl Benzene
Concen: 0.774 ppbv
RT: 12.72 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL035953.D
Acq: 16 Nov 2020 21:14

Tgt Ion: 91 Resp: 368602
Ion Ratio Lower Upper
91 100
106 31.3 28.6 43.0





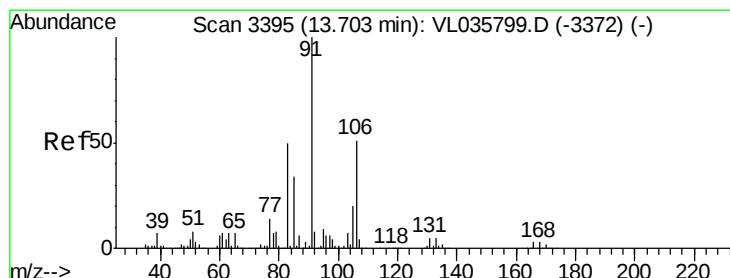
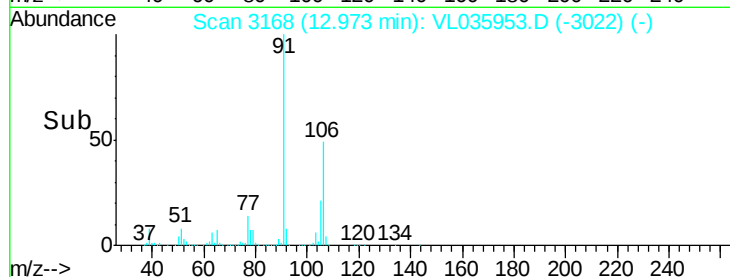
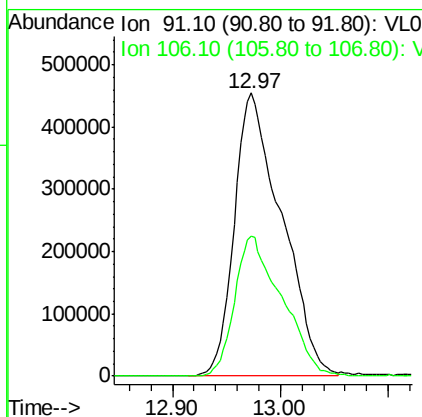
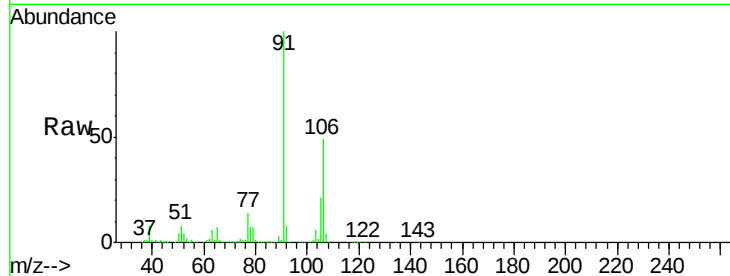
#59
m/p-Xylene
Concen: 3.429 ppbv
RT: 12.97 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL035953.D
Acq: 16 Nov 2020 21:14

Instrument :
MSVOA_L
ClientSampleId :
SR-4

Tot Ion: 91 Resp: 1381277
Ion Ratio Lower Upper
91 100
106 49.5 39.5 59.3

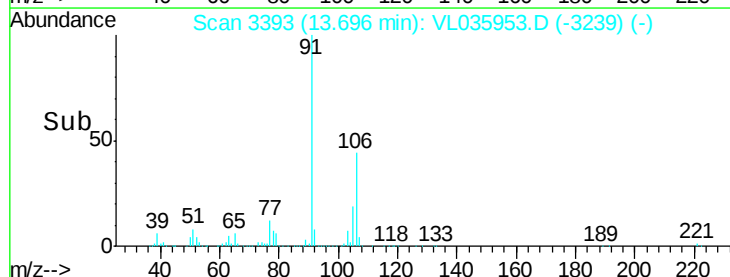
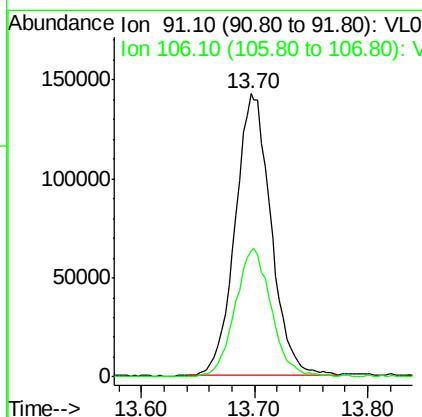
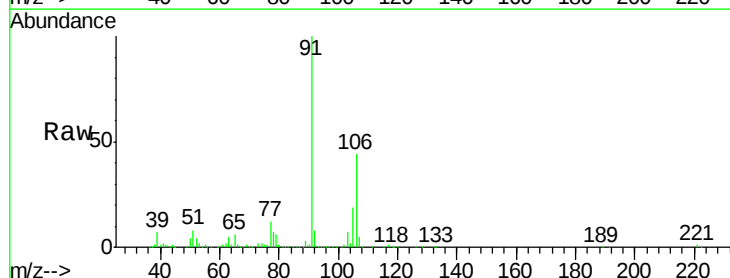
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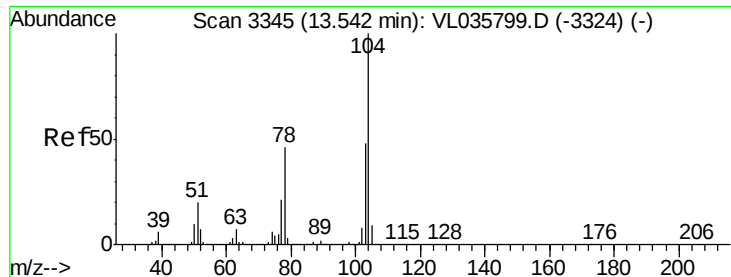
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#60
o-Xylene
Concen: 0.799 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL035953.D
Acq: 16 Nov 2020 21:14

Tgt Ion: 91 Resp: 313235
Ion Ratio Lower Upper
91 100
106 46.6 24.8 74.4





#61

Stvrene

Concen: 0.100 ppbv

RT: 13.53 min Scan# 3342

Delta R.T. -0.01 min

Lab File: VL035953.D

Acq: 16 Nov 2020 21:14

Instrument :

MSVOA_L

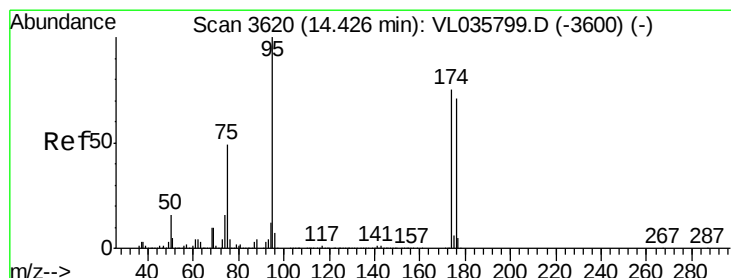
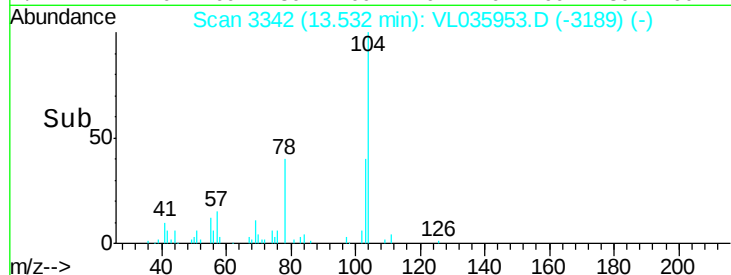
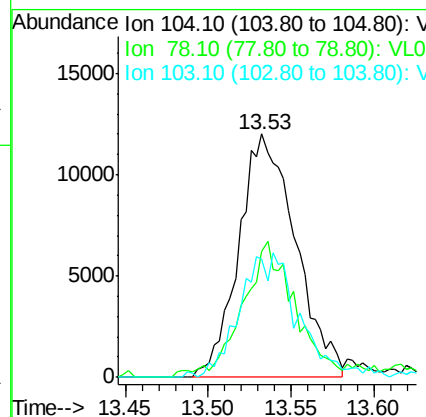
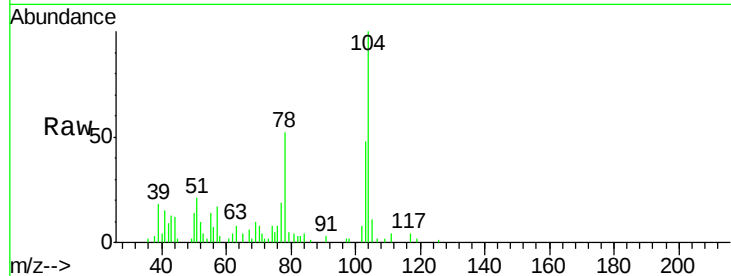
ClientSampleId :

SR-4

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.9	37.1	55.7
103	54.1	37.9	56.9

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.812 ppbv

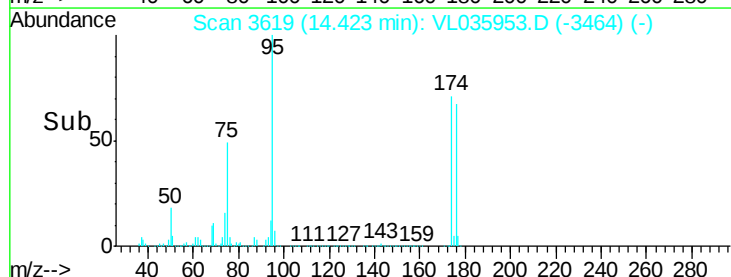
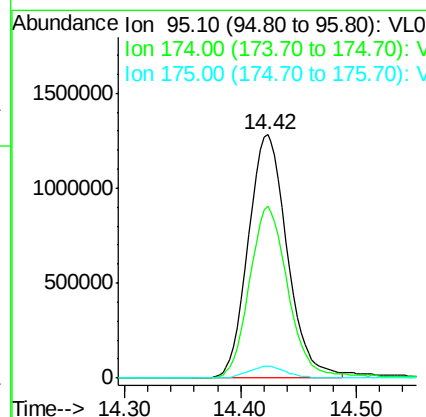
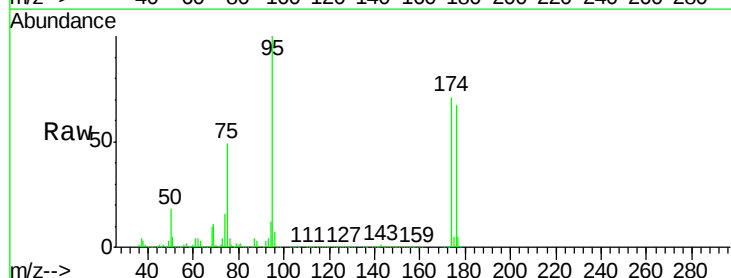
RT: 14.42 min Scan# 3619

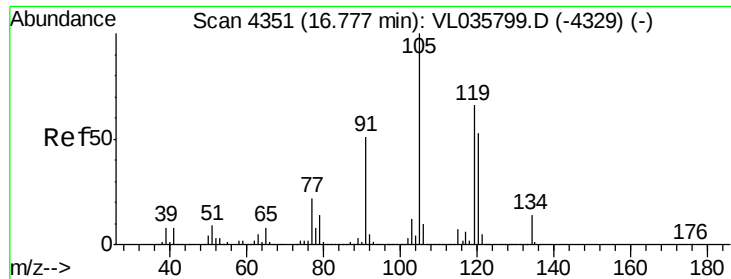
Delta R.T. -0.00 min

Lab File: VL035953.D

Acq: 16 Nov 2020 21:14

Tgt Ion	Ratio	Lower	Upper
95	100		
174	71.5	59.8	89.6
175	4.9	4.3	6.5





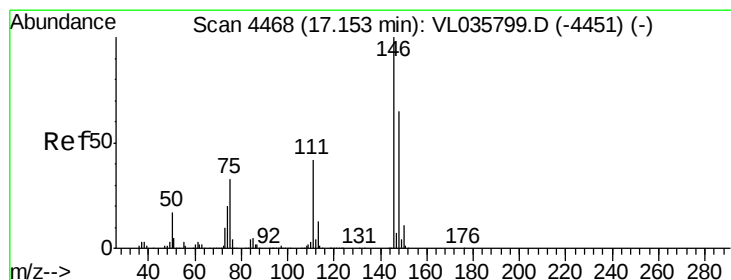
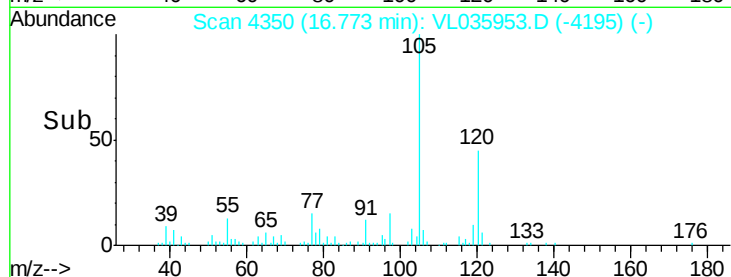
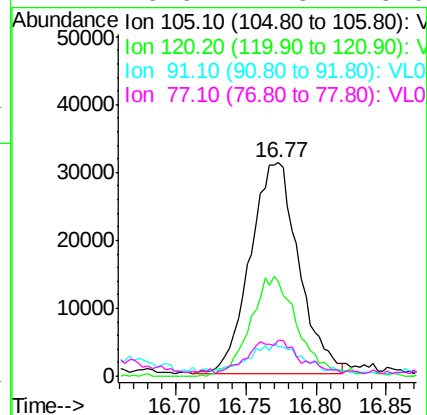
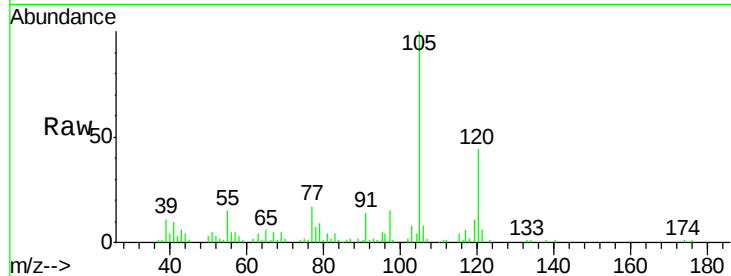
#74
 1,2,4-Trimethylbenzene
 Concen: 0.160 ppbv
 RT: 16.77 min Scan# 4350
 Delta R.T. -0.00 min
 Lab File: VL035953.D
 Acq: 16 Nov 2020 21:14

Instrument :
 MSVOA_L
 ClientSampled :
 SR-4

Tot Ion	Ratio	Lower	Upper
105	100		
120	45.2	42.0	63.0
91	10.9	41.0	61.6#
77	15.6	17.3	25.9#

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#76
 1,4-Dichlorobenzene
 Concen: 0.101 ppbv m
 RT: 17.15 min Scan# 4466
 Delta R.T. -0.01 min
 Lab File: VL035953.D
 Acq: 16 Nov 2020 21:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	61.4	21.3	63.7
148	67.8	33.0	99.0

