

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111620\
 Data File : VL035951.D
 Acq On : 16 Nov 2020 19:55
 Operator : SY/AP
 Sample : L4722-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-3

Manual Integrations
 APPROVED

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 11/18/2020 2:11:25 PM

Quant Time: Nov 17 21:59:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1187811	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4168441	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3896099	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2983248	10.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	62733	0.281	ppbv	98
3) Chlorodifluoromethane	2.98	51	540528m	3.800	ppbv	
4) Chloromethane	3.14	50	46008	0.666	ppbv	98
9) Propene	3.02	41	120818m	2.321	ppbv	
10) Heptane	8.13	43	22926m	0.159	ppbv	
11) Trichlorofluoromethane	3.94	101	70444	0.251	ppbv	97
13) Ethanol	3.63	45	14425410	1277.174	ppbv	99
15) Acetone	3.84	43	1152581m	9.076	ppbv	
19) Isopropyl Alcohol	4.00	45	3528018	45.209	ppbv #	98
20) Methylene Chloride	4.34	84	509977	5.705	ppbv	99
26) Hexane	5.69	57	319971	2.319	ppbv #	61
29) Chloroform	5.75	83	71696	0.264	ppbv	95
30) Cyclohexane	7.16	84	30725m	0.204	ppbv	
34) 2-Butanone	5.25	43	93383	0.690	ppbv	97
35) Carbon Tetrachloride	7.01	117	17422m	0.078	ppbv	
36) Benzene	6.89	78	389932	1.258	ppbv	97
44) 2,2,4-Trimethylpentane	7.87	57	79181	0.193	ppbv #	64
52) Tetrachloroethene	11.22	164	5821m	0.040	ppbv	
53) Toluene	9.81	91	982822	2.628	ppbv	97
58) Ethyl Benzene	12.72	91	49931	0.105	ppbv #	86
59) m/p-Xylene	12.98	91	144270m	0.359	ppbv	
60) o-Xylene	13.70	91	55519	0.142	ppbv	100
74) 1,2,4-Trimethylbenzene	16.77	105	68598	0.148	ppbv #	72

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

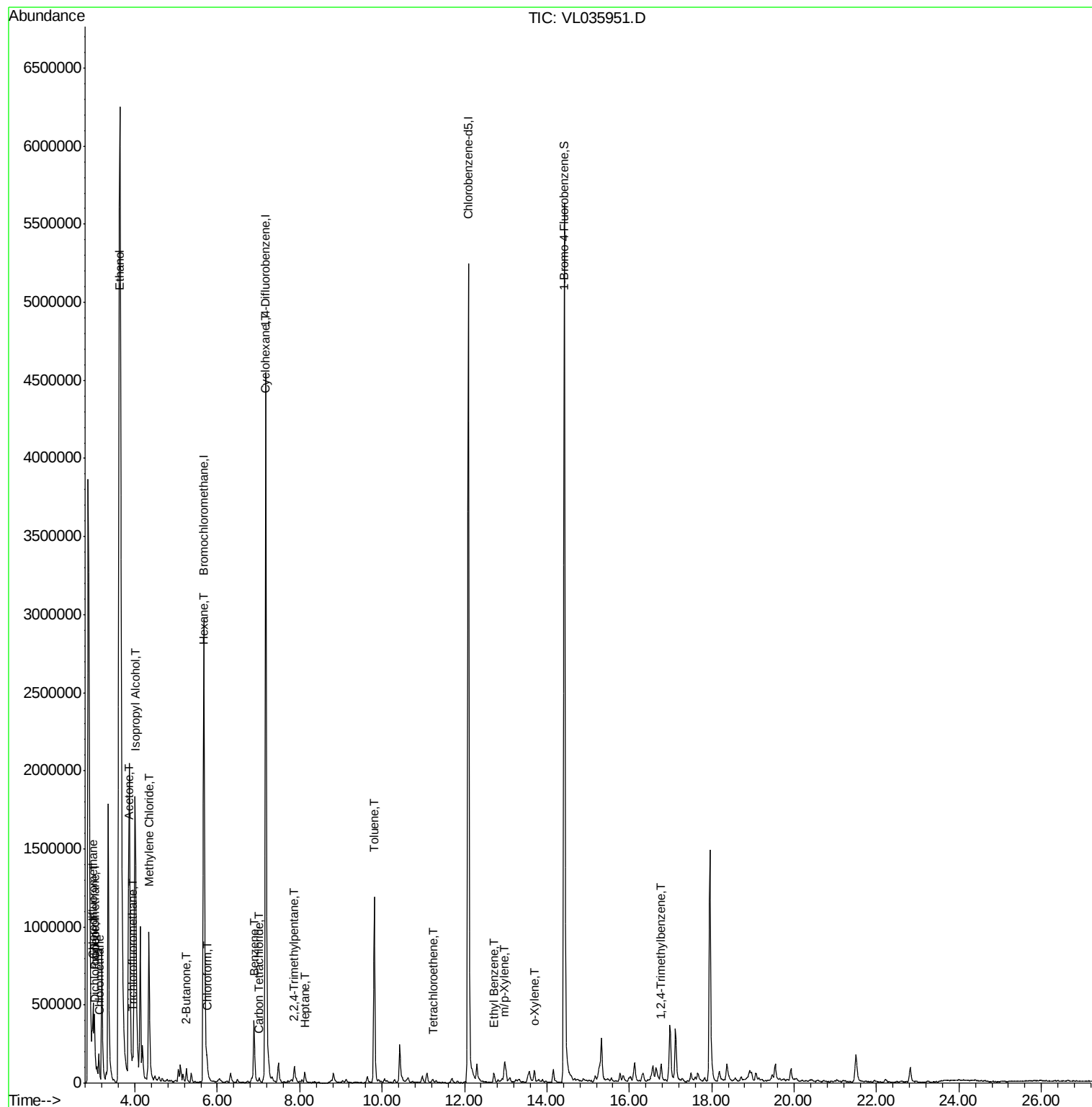
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111620\
Data File : VL035951.D
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Operator : SY/AP
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Misc : 400ml/MSVOA L
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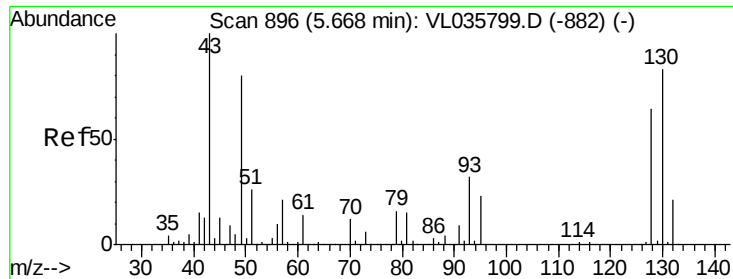
Instrument :
MSVOA_L
ClientSampleId :
SR-3

Manual Integrations
APPROVED

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Quant Time: Nov 17 21:59:56 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





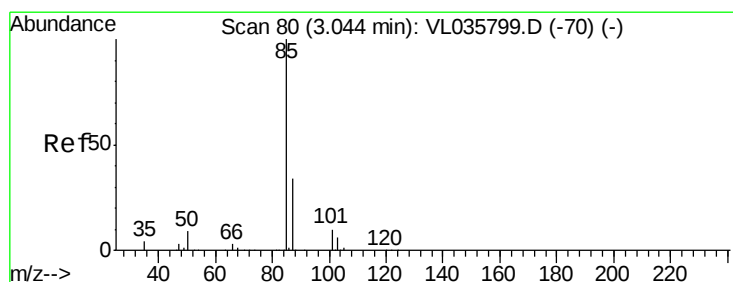
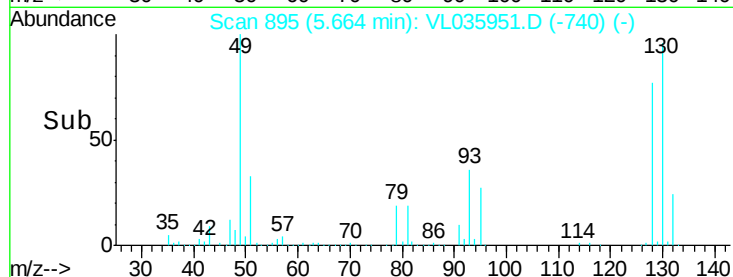
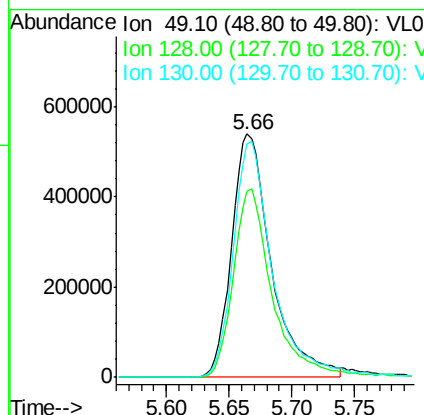
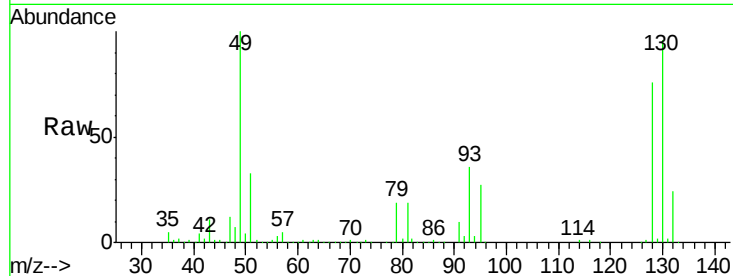
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.00 min
Lab File: VL035951.D
Acq: 16 Nov 2020 19:55

Instrument :
MSVOA_L
ClientSampled :
SR-3

Tot Ion: 49 Resp: 1187811
Ion Ratio Lower Upper
49 100
128 77.0 41.5 124.6
130 97.6 53.7 161.1

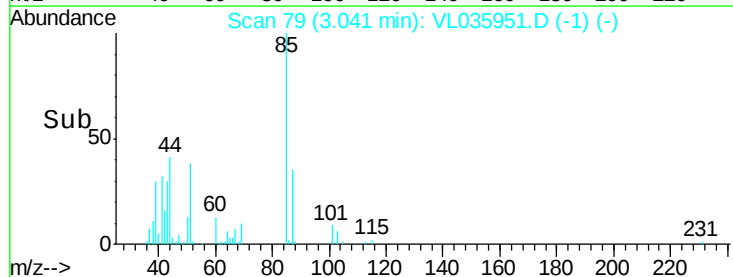
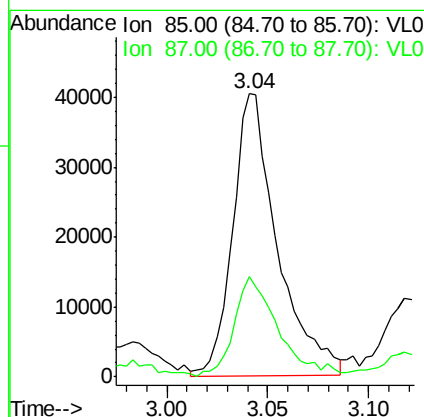
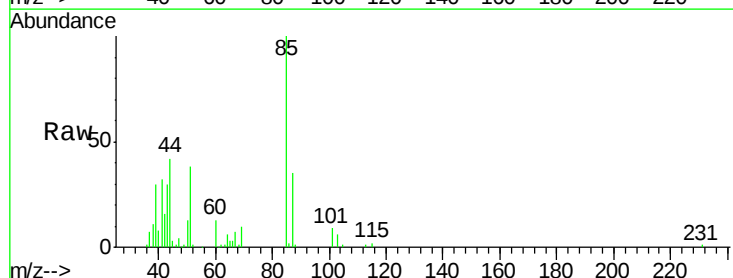
Manual Integrations
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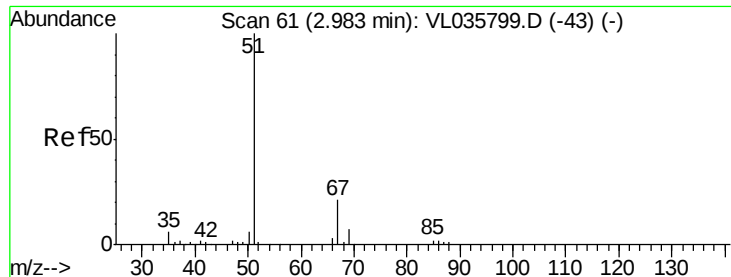
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#2
Dichlorodifluoromethane
Concen: 0.281 ppbv
RT: 3.04 min Scan# 79
Delta R.T. -0.00 min
Lab File: VL035951.D
Acq: 16 Nov 2020 19:55

Tgt Ion: 85 Resp: 62733
Ion Ratio Lower Upper
85 100
87 34.8 27.1 40.7





#3

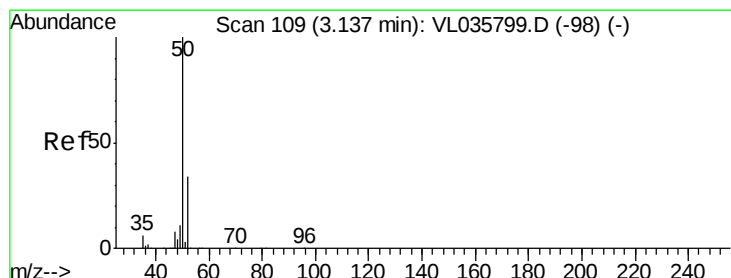
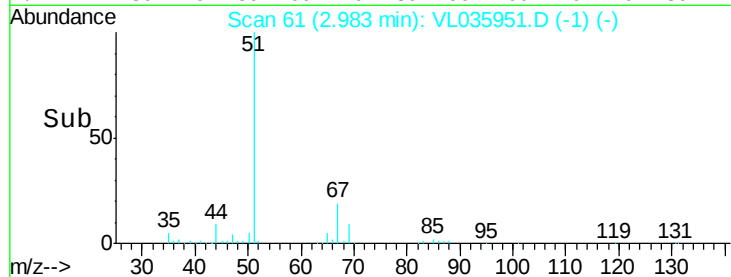
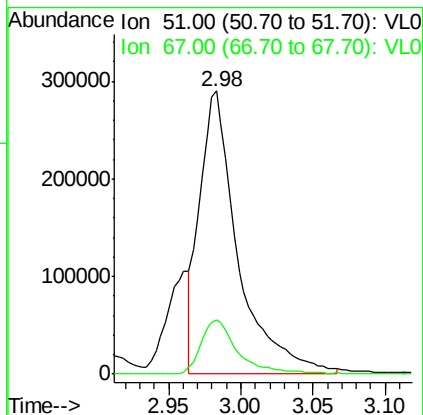
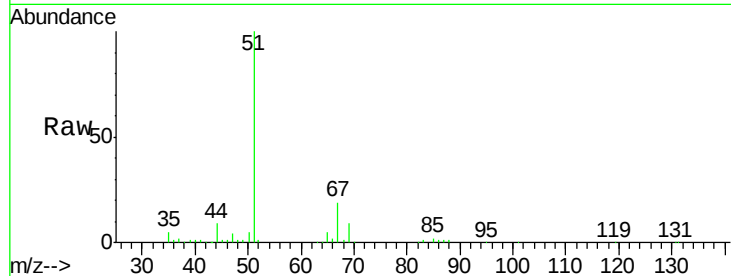
Chlorodifluoromethane
Concen: 3.800 ppbv
RT: 2.98 min Scan# 61
Delta R.T. 0.00 min
Lab File: VL035951.D
Acq: 16 Nov 2020 19:55

Instrument :
MSVOA_L
ClientSampled :
SR-3

Tot Ion	51	Resp	540528
Ion Ratio	100	Lower	Upper
67	18.9	17.0	25.4

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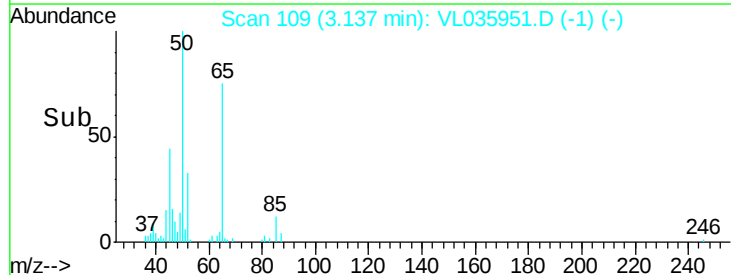
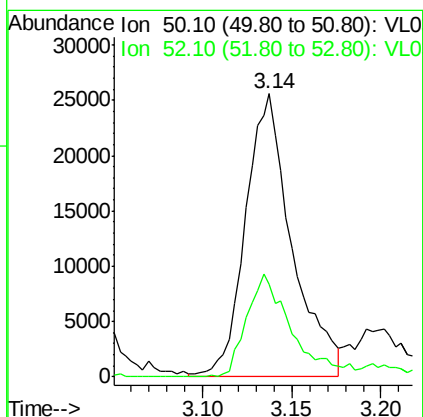
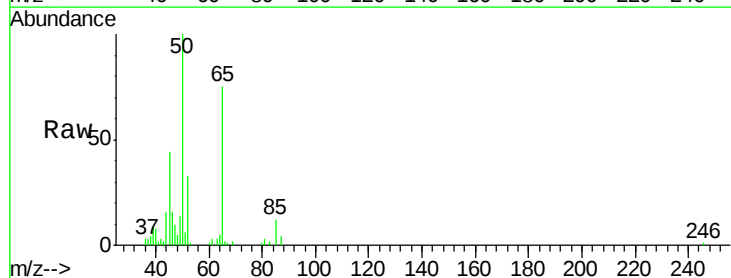
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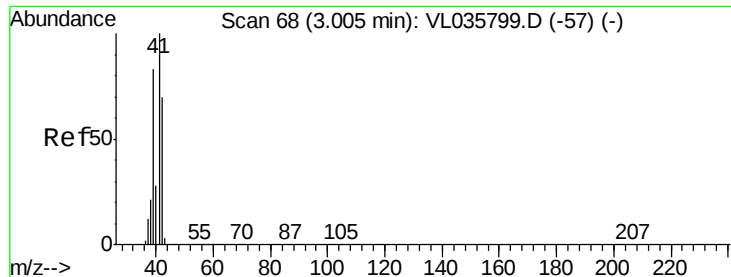


#4

Chloromethane
Concen: 0.666 ppbv
RT: 3.14 min Scan# 109
Delta R.T. 0.00 min
Lab File: VL035951.D
Acq: 16 Nov 2020 19:55

Tgt Ion	50	Resp	46008
Ion Ratio	100	Lower	Upper
52	32.8	27.1	40.7





#9

Propene

Concen: 2.321 ppbv m

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL035951.D

Acq: 16 Nov 2020 19:55

Instrument :

MSVOA_L

ClientSampleId :

SR-3

Tot Ion: 41 Resp: 120818

Ion Ratio Lower Upper

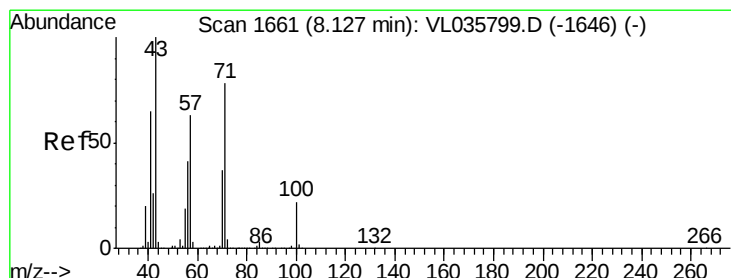
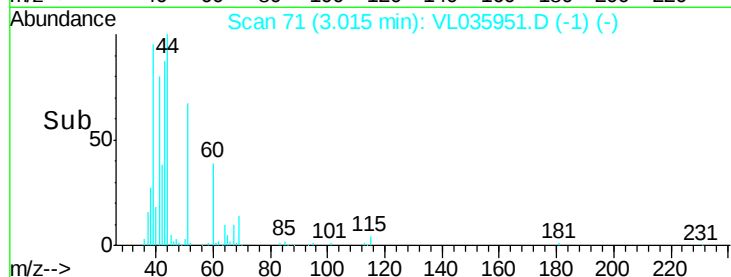
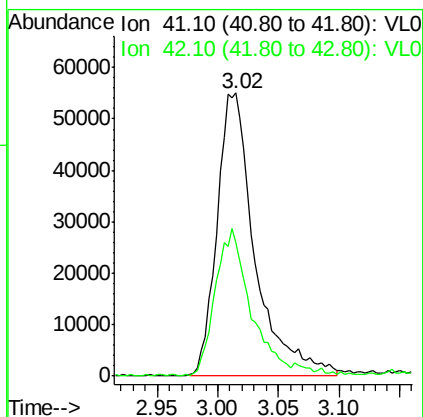
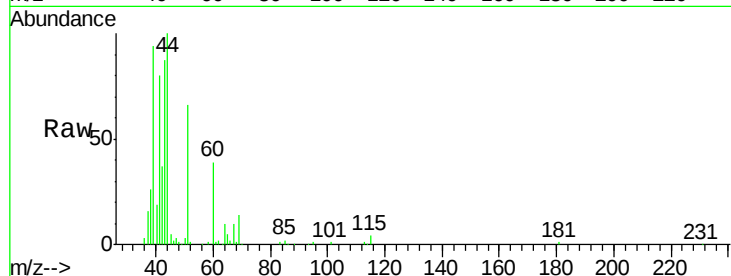
41 100

42 159.5 56.2 84.4#

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#10

Heptane

Concen: 0.159 ppbv m

RT: 8.13 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VL035951.D

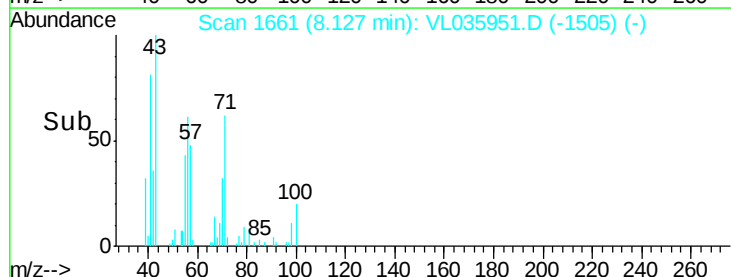
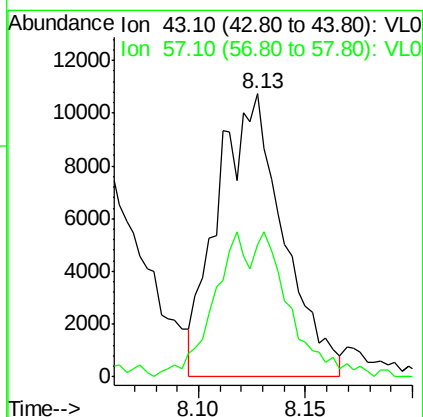
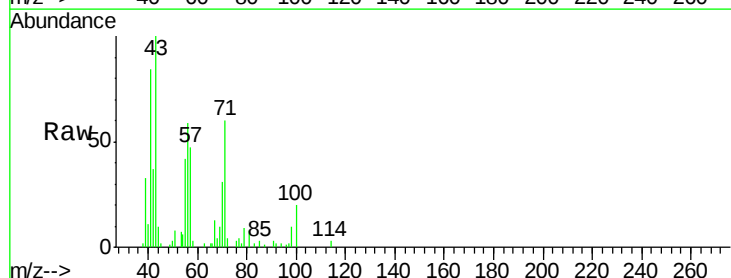
Acq: 16 Nov 2020 19:55

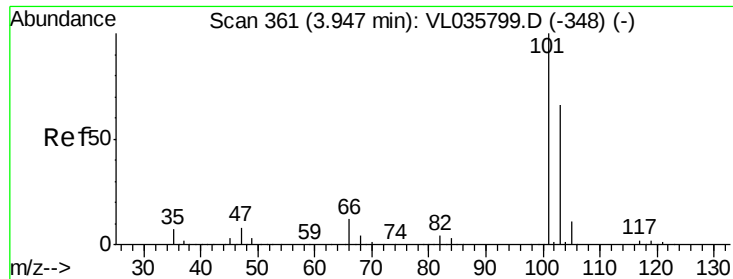
Tgt Ion: 43 Resp: 22926

Ion Ratio Lower Upper

43 100

57 56.5 50.0 75.0





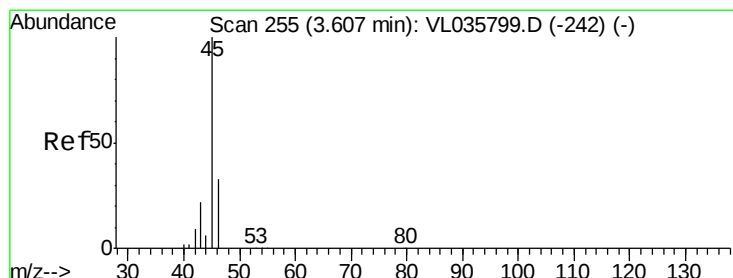
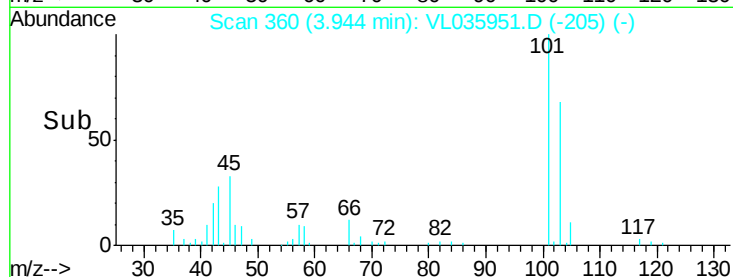
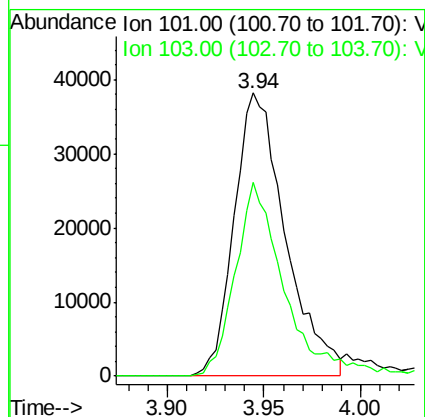
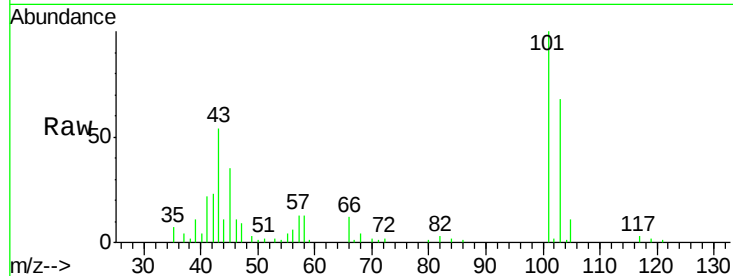
#11
 Trichlorofluoromethane
 Concen: 0.251 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.00 min
 Lab File: VL035951.D
 Acq: 16 Nov 2020 19:55

Instrument :
 MSVOA_L
 ClientSampled :
 SR-3

Tot Ion:101 Resp: 70444
 Ion Ratio Lower Upper
 101 100
 103 68.5 53.0 79.4

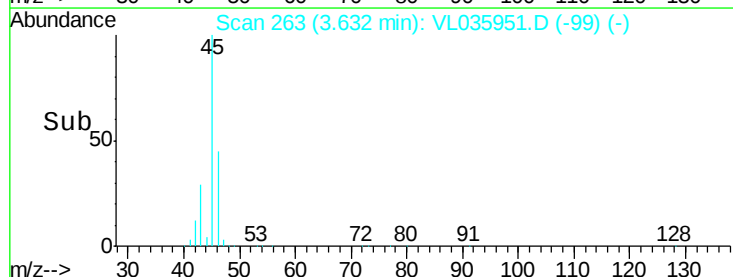
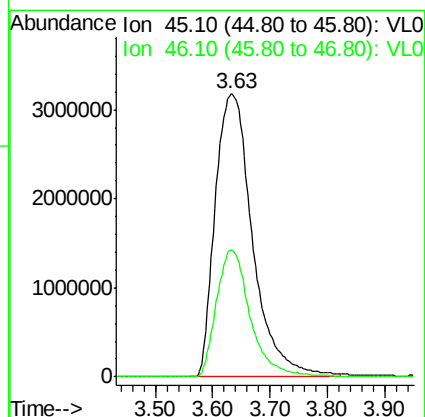
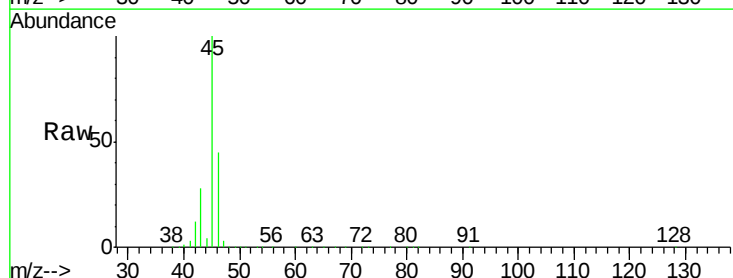
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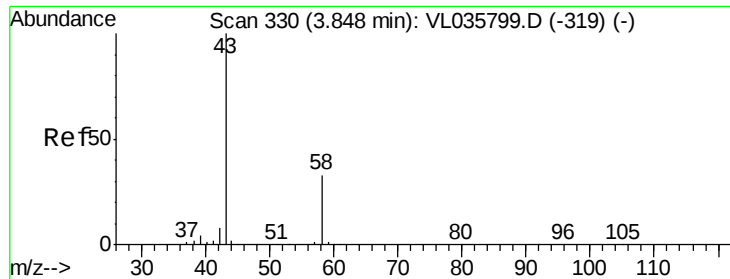
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#13
 Ethanol
 Concen: 1277.174 ppbv
 RT: 3.63 min Scan# 263
 Delta R.T. 0.03 min
 Lab File: VL035951.D
 Acq: 16 Nov 2020 19:55

Tgt Ion: 45 Resp:14425410
 Ion Ratio Lower Upper
 45 100
 46 41.0 16.1 64.5





#15

Acetone

Concen: 9.076 ppbv m

RT: 3.84 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL035951.D

Acq: 16 Nov 2020 19:55

Instrument :

MSVOA_L

ClientSampled :

SR-3

Tot Ion: 43 Resp: 1152581

Ion Ratio Lower Upper

43 100

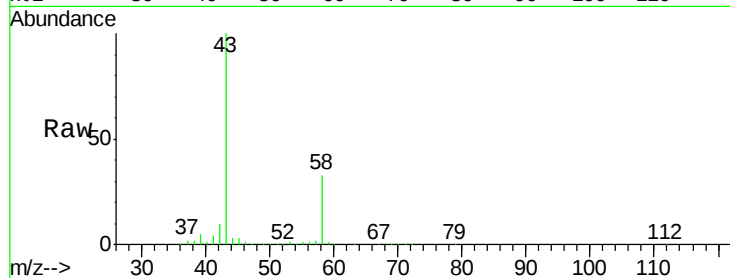
58 46.7 27.5 41.3#

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

800000

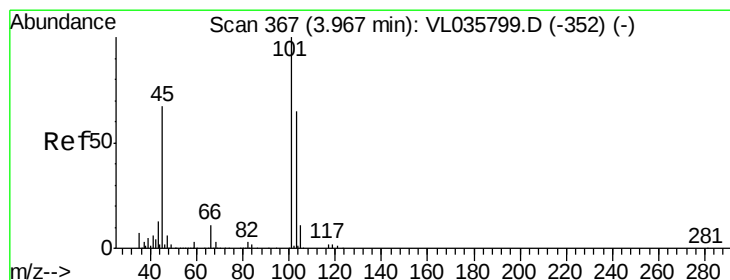
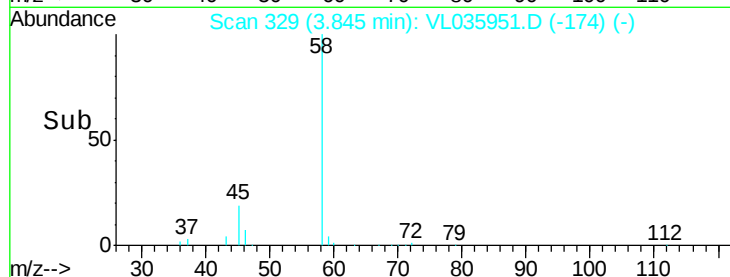
600000

400000

200000

0

Time-->



#19

Isopropyl Alcohol

Concen: 45.209 ppbv

RT: 4.00 min Scan# 378

Delta R.T. 0.04 min

Lab File: VL035951.D

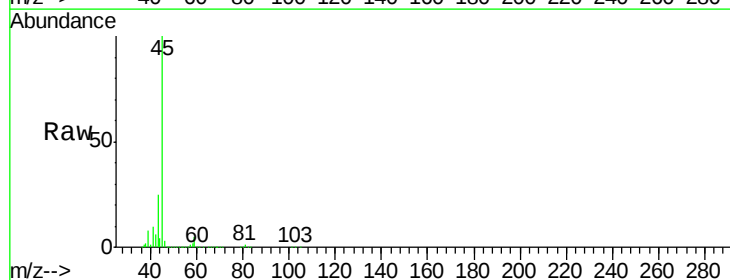
Acq: 16 Nov 2020 19:55

Tgt Ion: 45 Resp: 3528018

Ion Ratio Lower Upper

45 100

58 2.6 2.6 3.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.00

1200000

1000000

800000

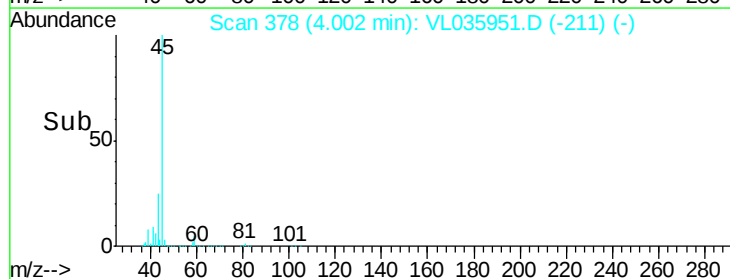
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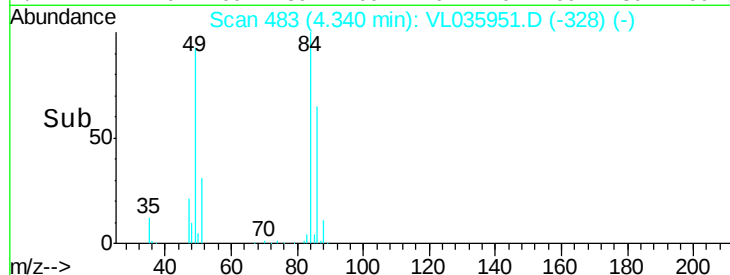
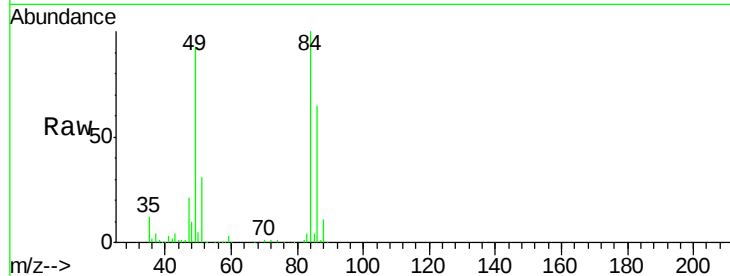
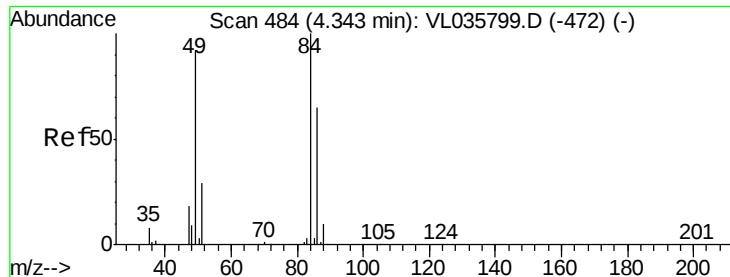
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200000

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Time-->





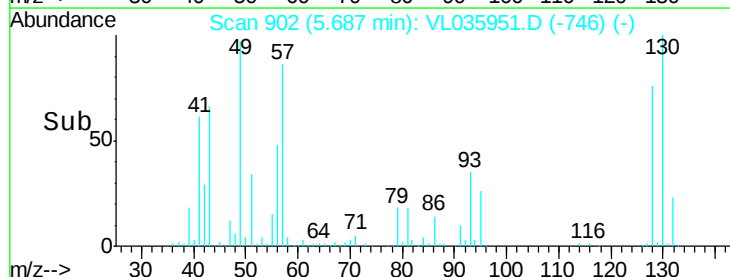
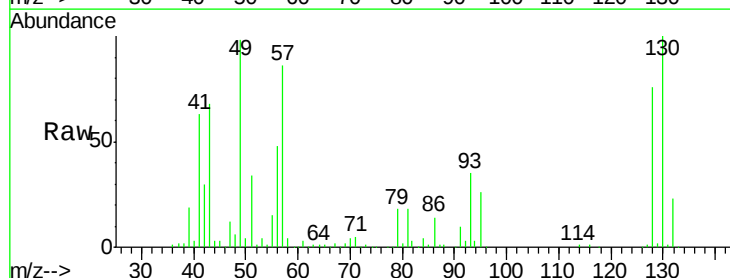
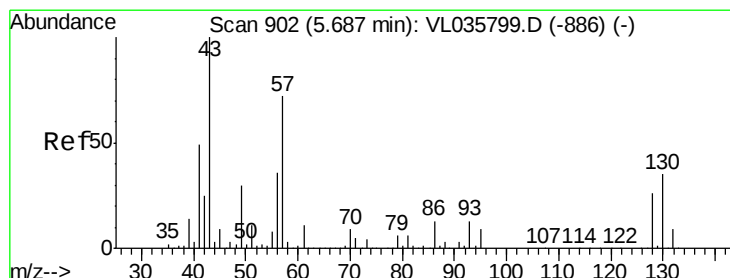
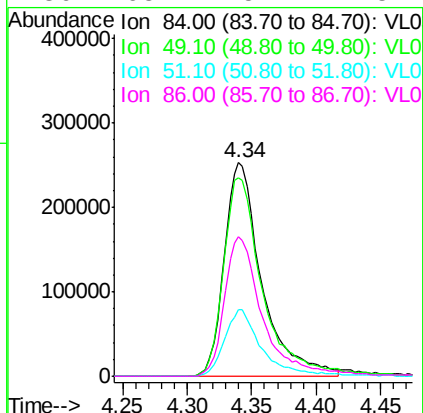
#20
Methvlene Chloride
Concen: 5.705 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.00 min
Lab File: VL035951.D
Acq: 16 Nov 2020 19:55

Tot Ion	Ratio	Lower	Upper
84	100		
49	92.9	73.8	110.8
51	31.0	23.0	34.4
86	65.1	52.1	78.1

Instrument :
MSVOA_L
ClientSampleId :
SR-3

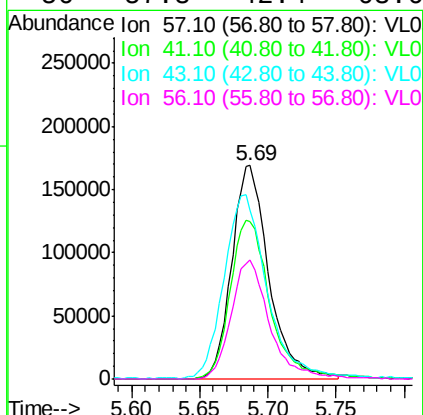
Manual Integrations
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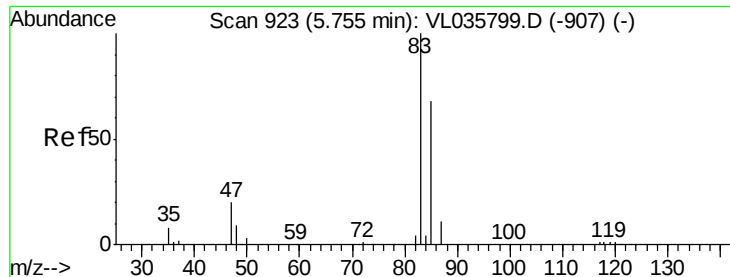
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#26
Hexane
Concen: 2.319 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL035951.D
Acq: 16 Nov 2020 19:55

Tgt Ion	Ratio	Lower	Upper
57	100		
41	80.9	58.9	88.3
43	101.2	150.2	225.2#
56	57.8	42.4	63.6





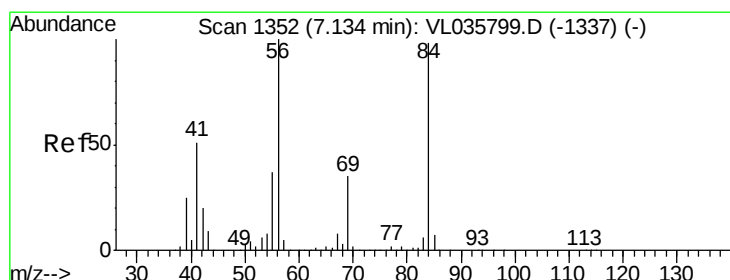
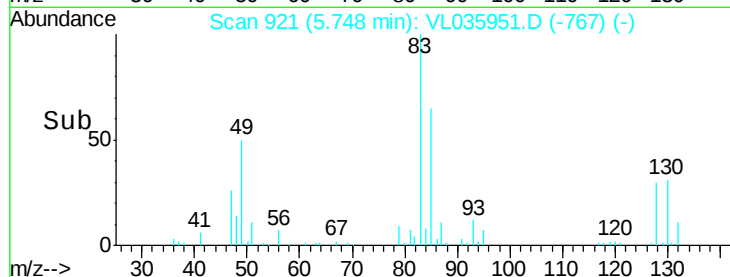
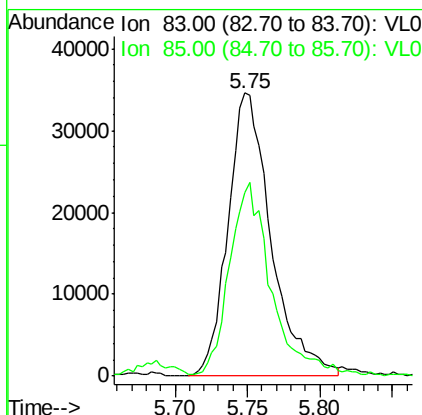
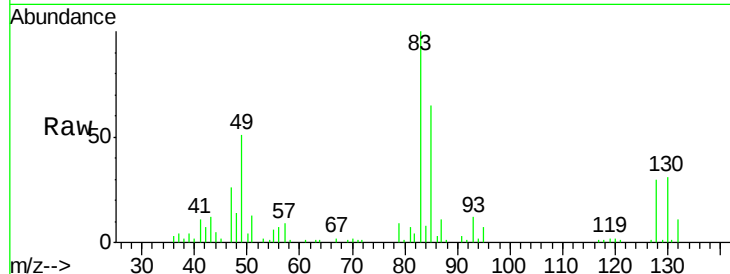
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Chloroform
Concen: 0.264 ppbv
RT: 5.75 min Scan# 921
Delta R.T. -0.01 min
Lab File: VL035951.D
Acq: 16 Nov 2020 19:55

Instrument :
MSVOA_L
ClientSampled :
SR-3

Tot Ion	83	Resp	71696
Ion Ratio	100	Lower	Upper
85	63.9	54.6	81.8

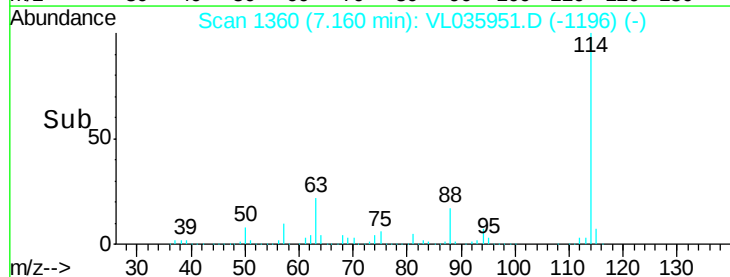
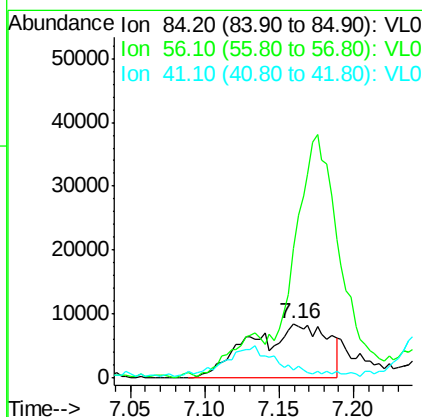
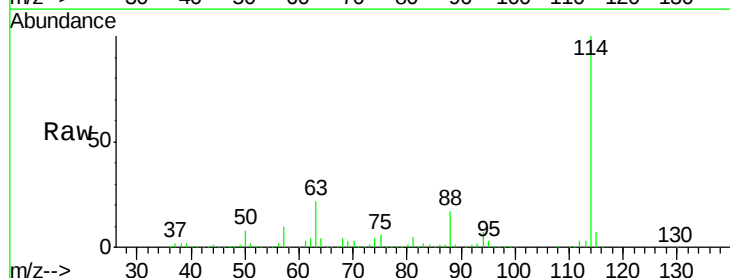
Manual Integrations
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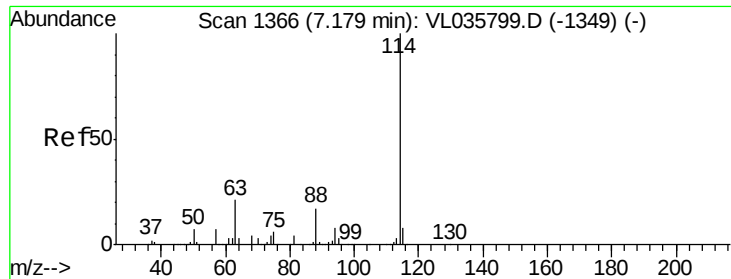
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#30
Cyclohexane
Concen: 0.204 ppbv m
RT: 7.16 min Scan# 1360
Delta R.T. 0.03 min
Lab File: VL035951.D
Acq: 16 Nov 2020 19:55

Tgt Ion	84	Resp	30725
Ion Ratio	100	Lower	Upper
56	0.0	86.4	129.6#
41	42.2	42.1	63.1





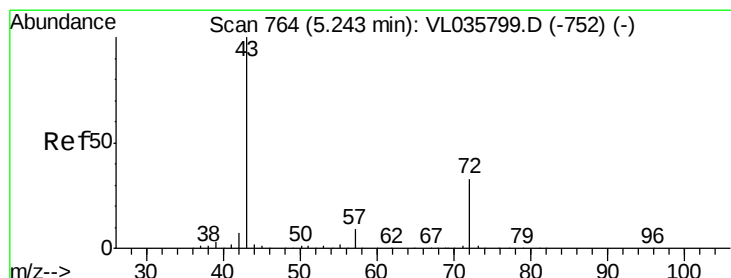
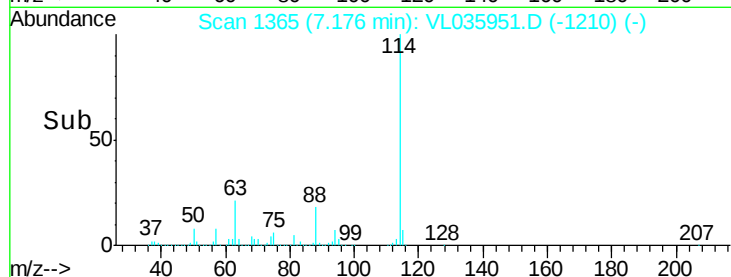
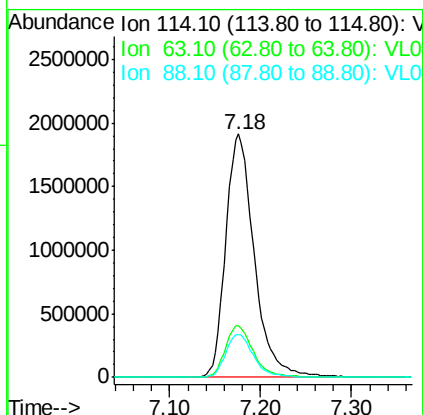
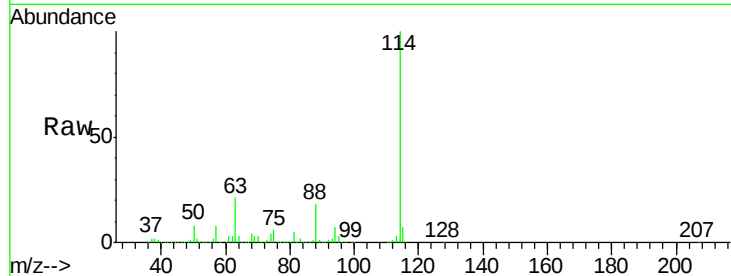
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL035951.D
 Acq: 16 Nov 2020 19:55

Instrument :
 MSVOA_L
 ClientSampled :
 SR-3

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.0	16.1	24.1
88	17.4	13.7	20.5

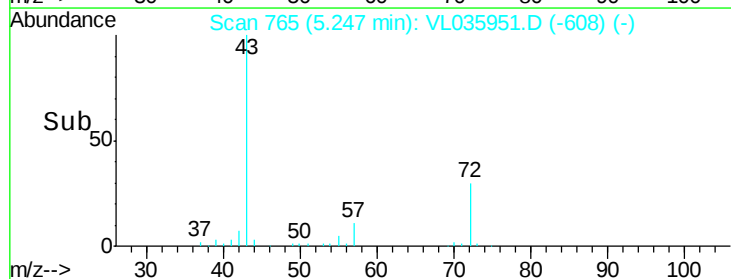
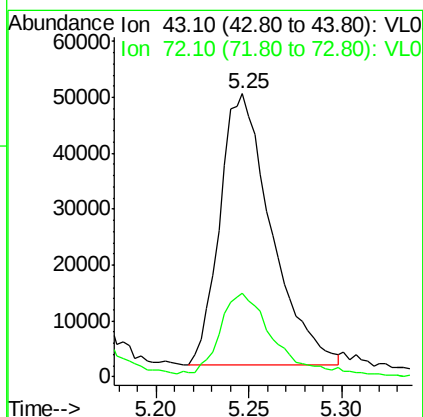
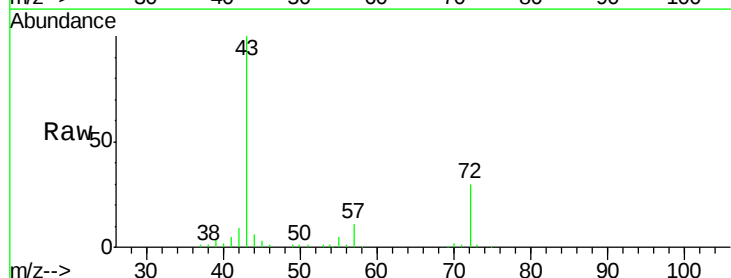
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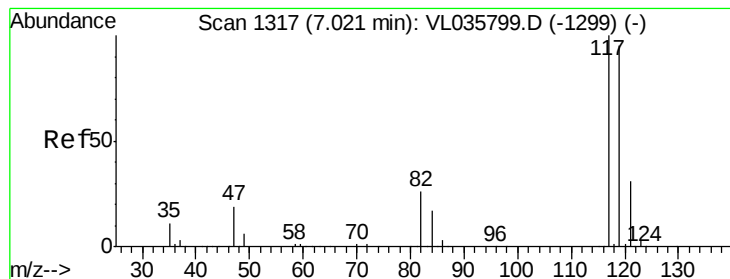
MMDadoda
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#34
 2-Butanone
 Concen: 0.690 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.00 min
 Lab File: VL035951.D
 Acq: 16 Nov 2020 19:55

Tgt Ion	Ratio	Lower	Upper
43	100		
72	34.5	26.5	39.7





#35

Carbon Tetrachloride

Concen: 0.078 ppbv m

RT: 7.01 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VL035951.D

Acq: 16 Nov 2020 19:55

Instrument :

MSVOA_L

ClientSampled :

SR-3

Tot Ion: 117 Resp: 17422

Ion Ratio Lower Upper

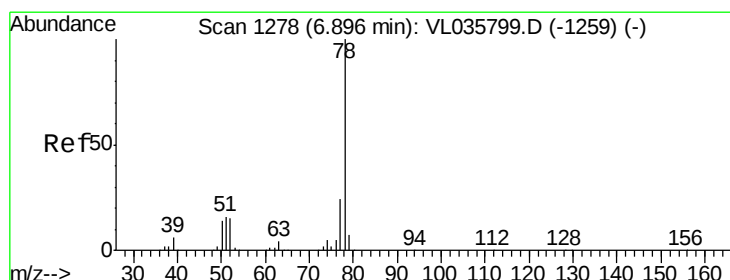
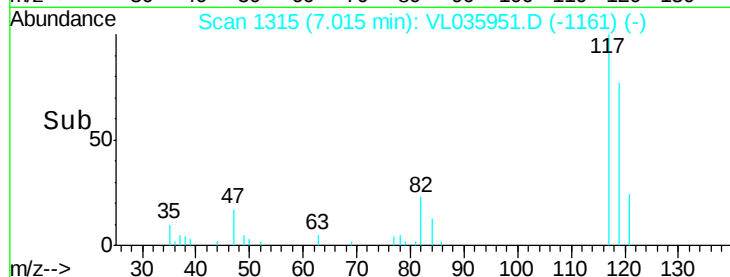
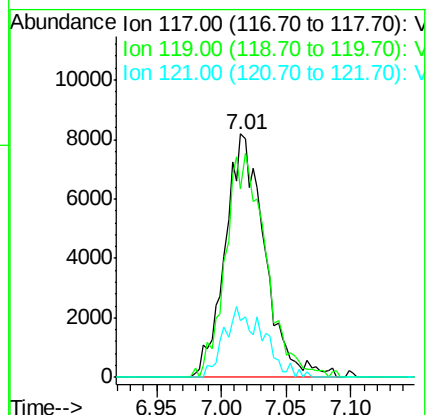
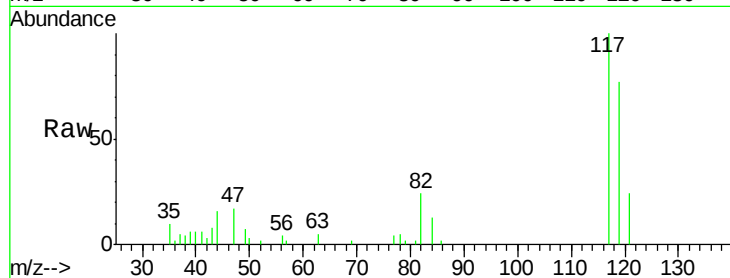
117 100

119 77.4 75.6 113.4

121 23.5 25.1 37.7#

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#36

Benzene

Concen: 1.258 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL035951.D

Acq: 16 Nov 2020 19:55

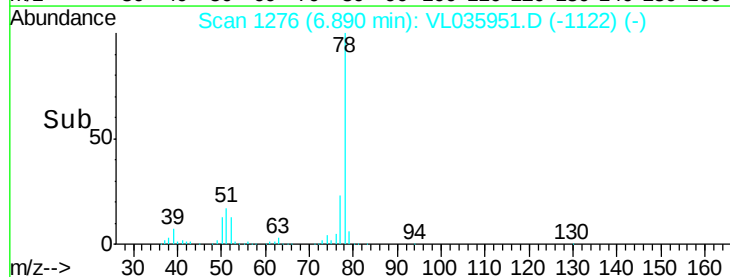
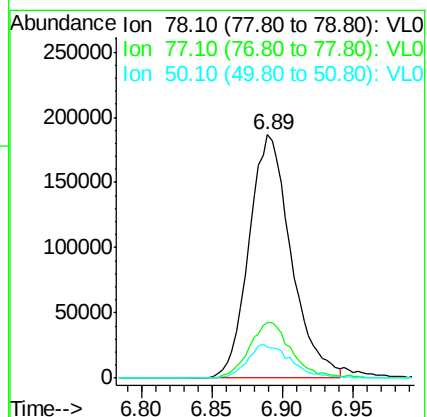
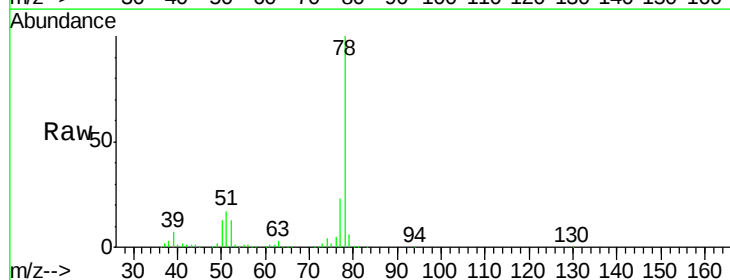
Tgt Ion: 78 Resp: 389932

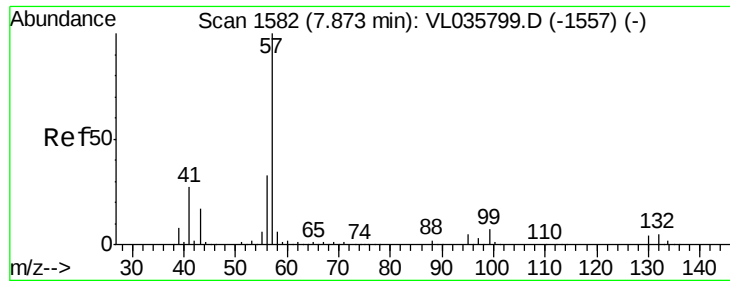
Ion Ratio Lower Upper

78 100

77 22.7 19.3 28.9

50 12.7 11.4 17.2





#44

2,2,4-Trimethylpentane

Concen: 0.193 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VL035951.D

Acq: 16 Nov 2020 19:55

Instrument :

MSVOA_L

ClientSampleId :

SR-3

Tot Ion: 57 Resp: 79181

Ion Ratio Lower Upper

57 100

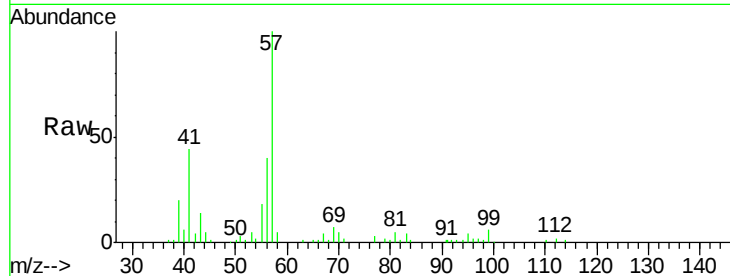
41 49.7 21.0 31.4#

56 47.2 25.4 38.0#

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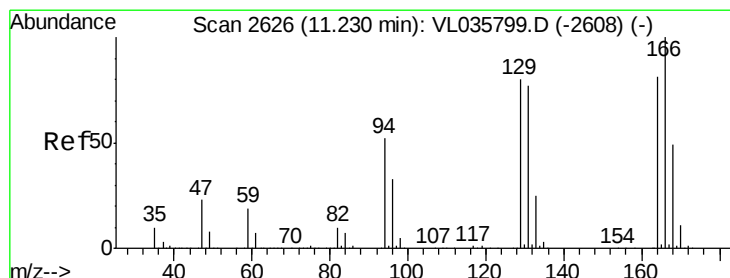
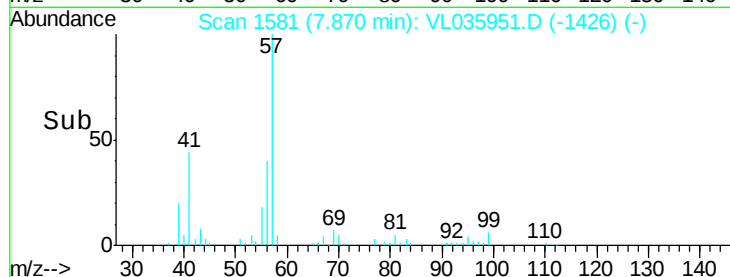
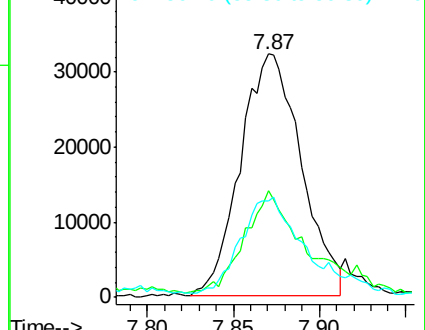
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Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#52

Tetrachloroethene

Concen: 0.040 ppbv m

RT: 11.22 min Scan# 2624

Delta R.T. -0.01 min

Lab File: VL035951.D

Acq: 16 Nov 2020 19:55

Tgt Ion:164 Resp: 5821

Ion Ratio Lower Upper

164 100

166 109.3 99.3 148.9

129 101.3 79.3 118.9

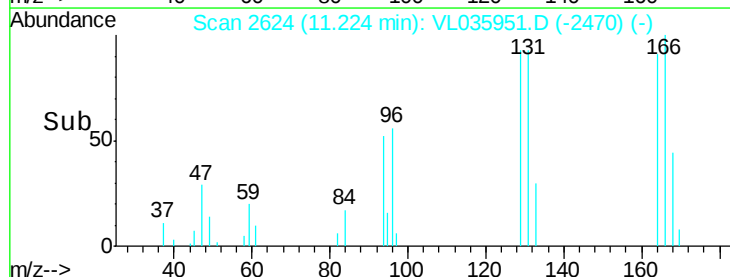
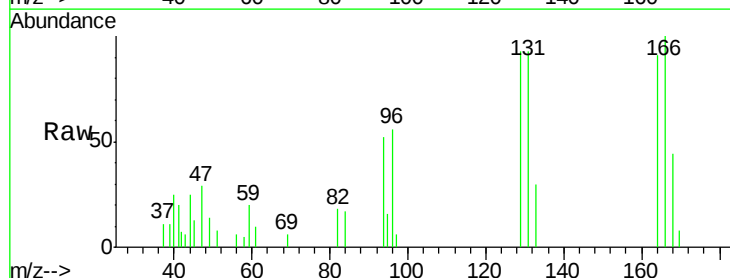
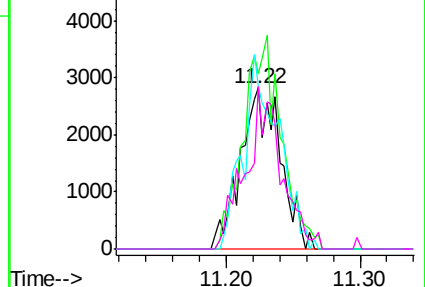
131 101.1 76.5 114.7

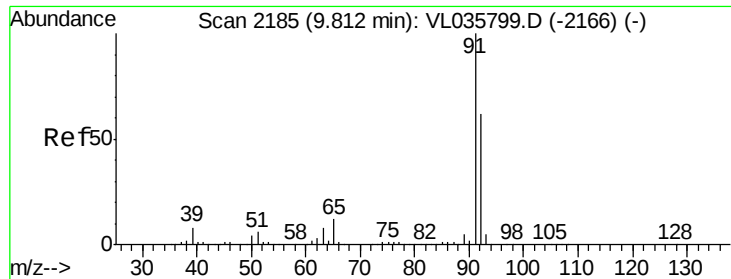
Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.628 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL035951.D

Acq: 16 Nov 2020 19:55

Instrument :

MSVOA_L

ClientSampleId :

SR-3

Tot Ion: 91 Resp: 982822

Ion Ratio Lower Upper

91 100

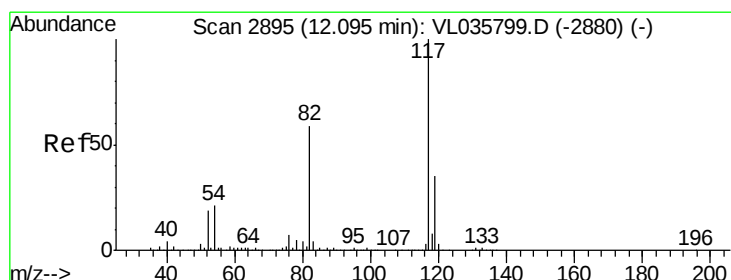
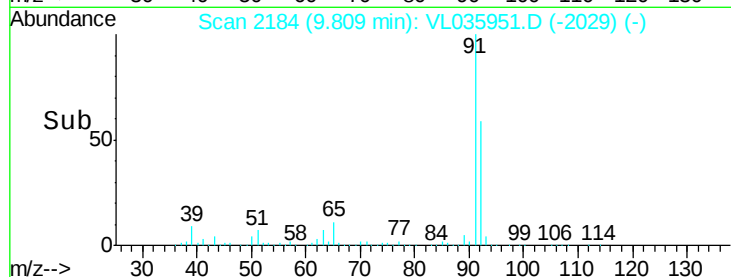
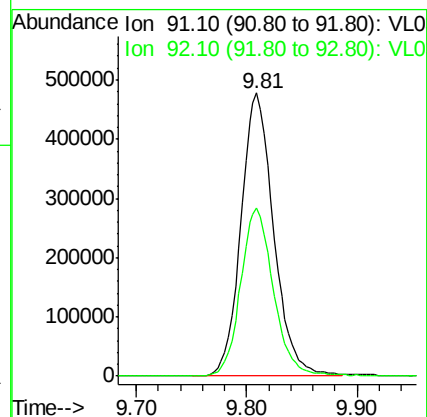
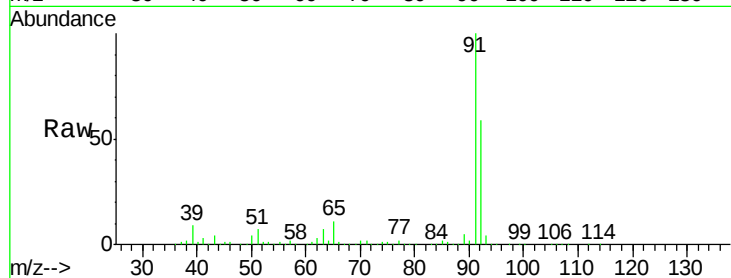
92 59.7 49.8 74.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL035951.D

Acq: 16 Nov 2020 19:55

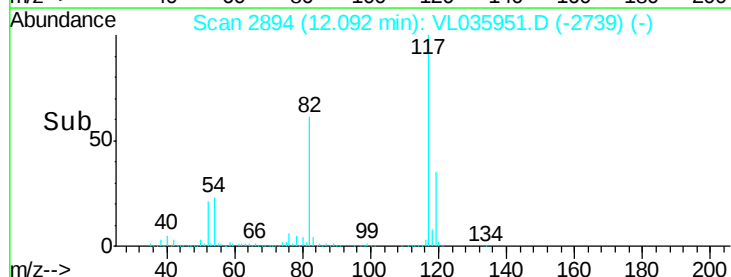
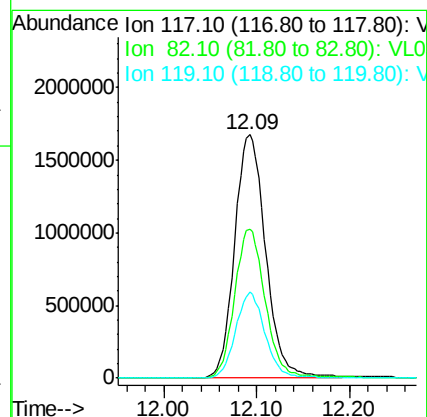
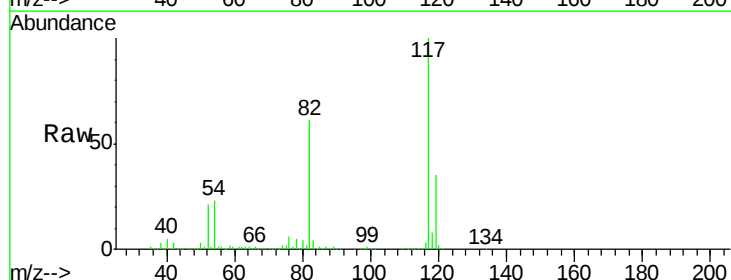
Tgt Ion: 117 Resp: 3896099

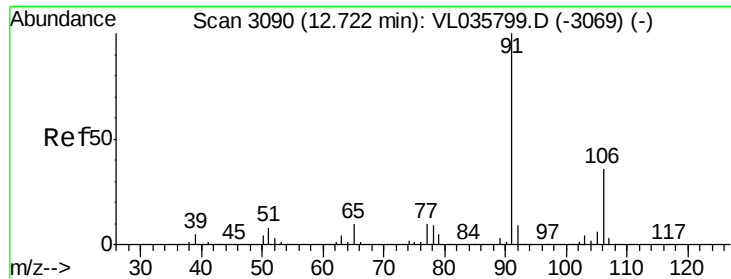
Ion Ratio Lower Upper

117 100

82 60.8 50.6 76.0

119 33.9 52.6 78.8#





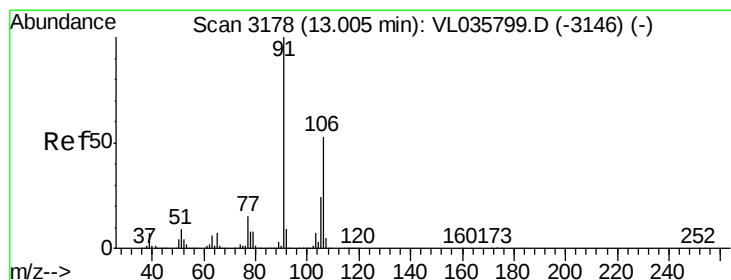
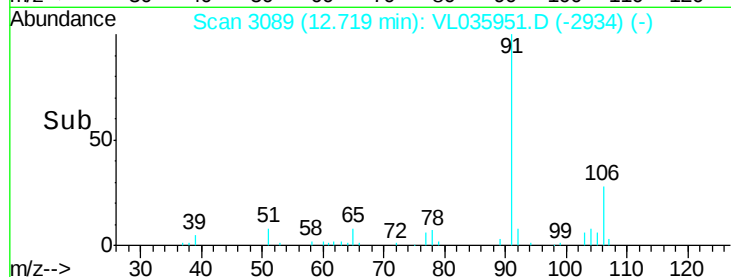
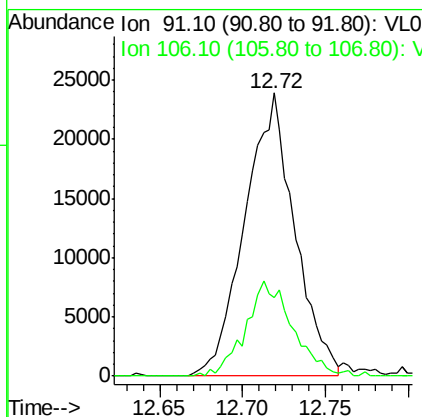
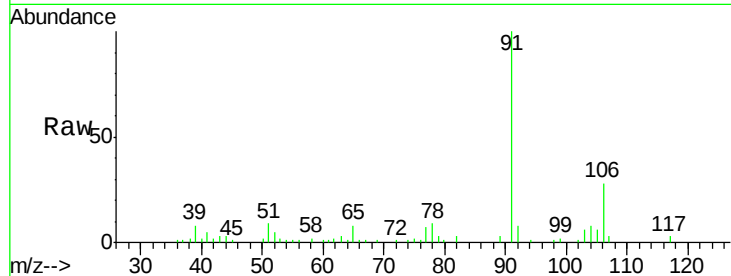
#58
Ethyl Benzene
Concen: 0.105 ppbv
RT: 12.72 min Scan# 3089
Delta R.T. -0.00 min
Lab File: VL035951.D
Acq: 16 Nov 2020 19:55

Instrument :
MSVOA_L
ClientSampled :
SR-3

Tot Ion: 91 Resp: 49931
Ion Ratio Lower Upper
91 100
106 27.7 28.6 43.0#

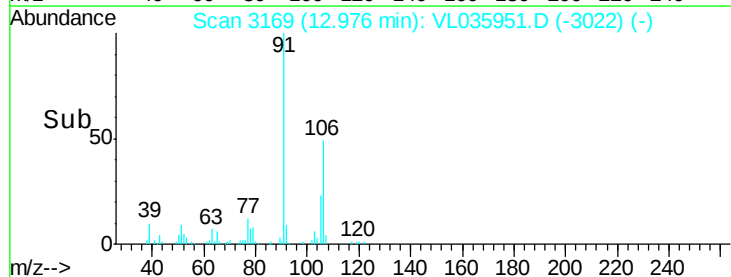
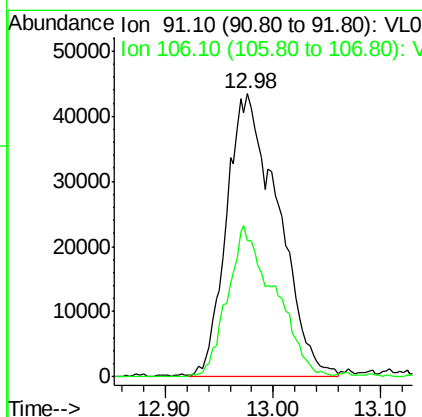
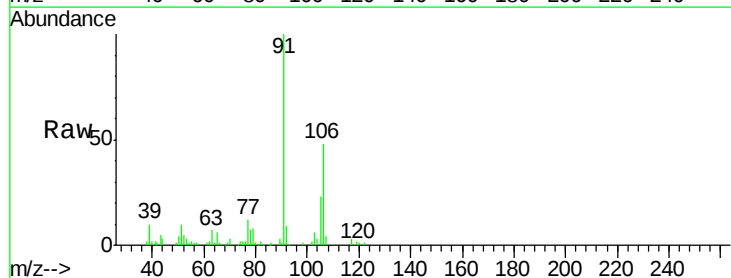
Manual Integrations
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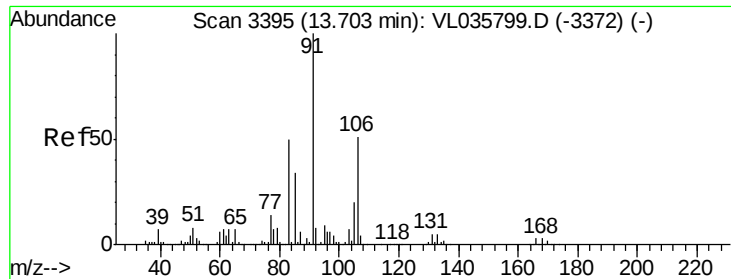
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#59
m/p-Xylene
Concen: 0.359 ppbv m
RT: 12.98 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL035951.D
Acq: 16 Nov 2020 19:55

Tgt Ion: 91 Resp: 144270
Ion Ratio Lower Upper
91 100
106 0.0 39.5 59.3#





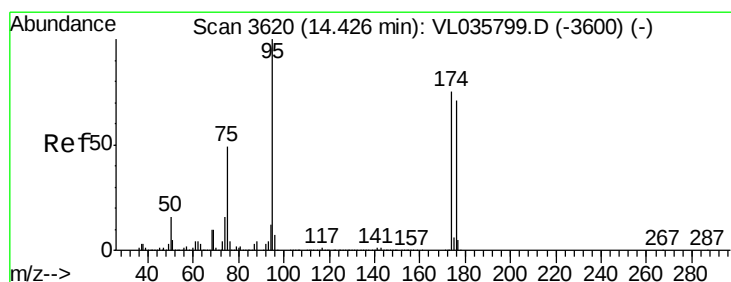
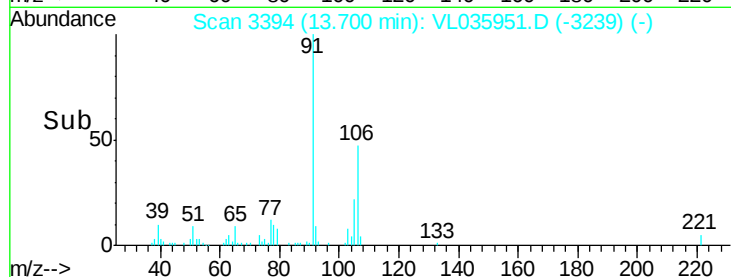
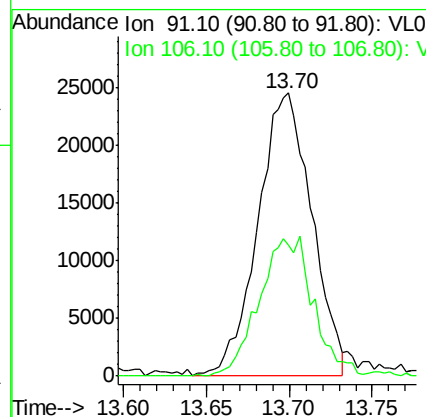
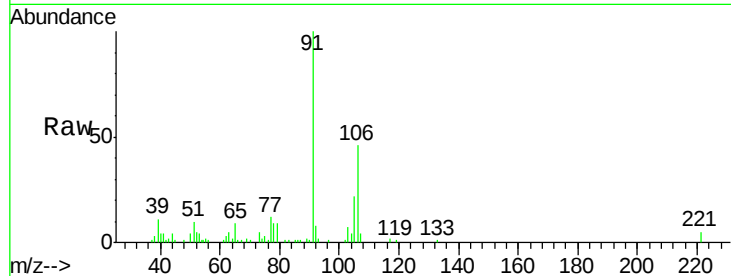
#60
o-Xylene
Concen: 0.142 ppbv
RT: 13.70 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL035951.D
Acq: 16 Nov 2020 19:55

Instrument :
MSVOA_L
ClientSampled :
SR-3

Tot Ion: 91 Resp: 55519
Ion Ratio Lower Upper
91 100
106 49.7 24.8 74.4

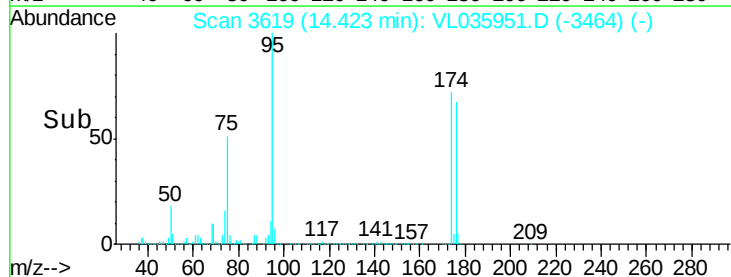
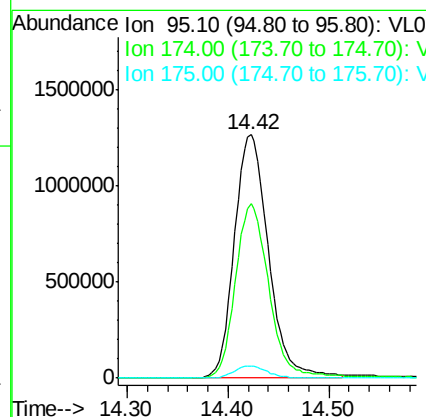
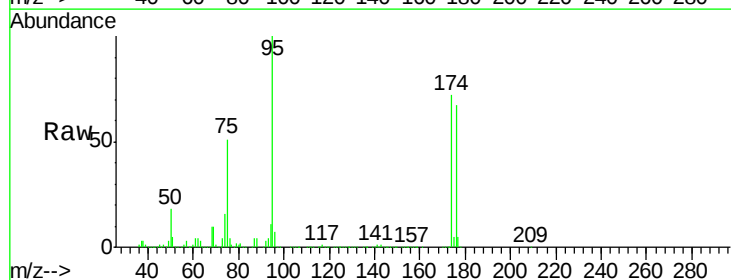
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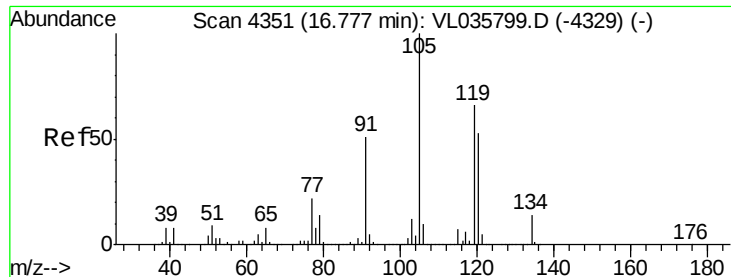
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.777 ppbv
RT: 14.42 min Scan# 3619
Delta R.T. -0.00 min
Lab File: VL035951.D
Acq: 16 Nov 2020 19:55

Tgt Ion: 95 Resp: 2983248
Ion Ratio Lower Upper
95 100
174 71.5 59.8 89.6
175 5.0 4.3 6.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.148 ppbv
 RT: 16.77 min Scan# 4349
 Delta R.T. -0.01 min
 Lab File: VL035951.D
 Acq: 16 Nov 2020 19:55

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-3

Tot Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	47.4	42.0	63.0
91	13.8	41.0	61.6
77	12.9	17.3	25.9

Manual Integrations
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