

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL035005.D
 Acq On : 13 May 2020 2:45
 Operator : SY/AP
 Sample : L2566-03 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-5

Manual Integrations
 APPROVED

MMDadoda
 5/13/2020 5:13:06 PM

Quant Time: May 14 14:20:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	948306	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	2221362	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.12	117	2065091	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1693096	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	2.96	41	12824	0.273	ppbv #	78
10) Heptane	8.12	43	13100m	0.111	ppbv	
13) Ethanol	3.56	45	184436	11.897	ppbv	99
15) Acetone	3.82	43	197634	1.576	ppbv	99
18) 1,1-Dichloroethene	4.25	96	15724m	0.367	ppbv	
19) Isopropyl Alcohol	3.94	45	128238	1.534	ppbv #	96
20) Methylene Chloride	4.31	84	15369m	0.370	ppbv	
22) trans-1,2-Dichloroethene	4.85	96	6504m	0.153	ppbv	
26) Hexane	5.66	57	26127	0.286	ppbv #	63
29) Chloroform	5.73	83	78885	0.528	ppbv	83
30) Cyclohexane	7.12	84	8944m	0.127	ppbv	
31) cis-1,2-Dichloroethene	5.52	61	250680	2.814	ppbv	92
32) 1,1,1-Trichloroethane	6.49	97	9339m	0.069	ppbv	
34) 2-Butanone	5.24	43	20075	0.145	ppbv	100
36) Benzene	6.88	78	25741m	0.141	ppbv	
38) Trichloroethene	7.84	130	10605861	149.482	ppbv	90
47) 1,1,2-Trichloroethane	9.49	97	9554m	0.123	ppbv	
52) Tetrachloroethene	11.32	164	28656279	440.040	ppbv	91
53) Toluene	9.81	91	248211m	1.278	ppbv	
58) Ethyl Benzene	12.75	91	42338m	0.166	ppbv	
59) m/p-Xylene	13.00	91	96168m	0.428	ppbv	
60) o-Xylene	13.73	91	35995m	0.162	ppbv	
61) Styrene	13.56	104	58932m	0.420	ppbv	
62) Isopropylbenzene	14.70	105	657575	1.987	ppbv	97

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

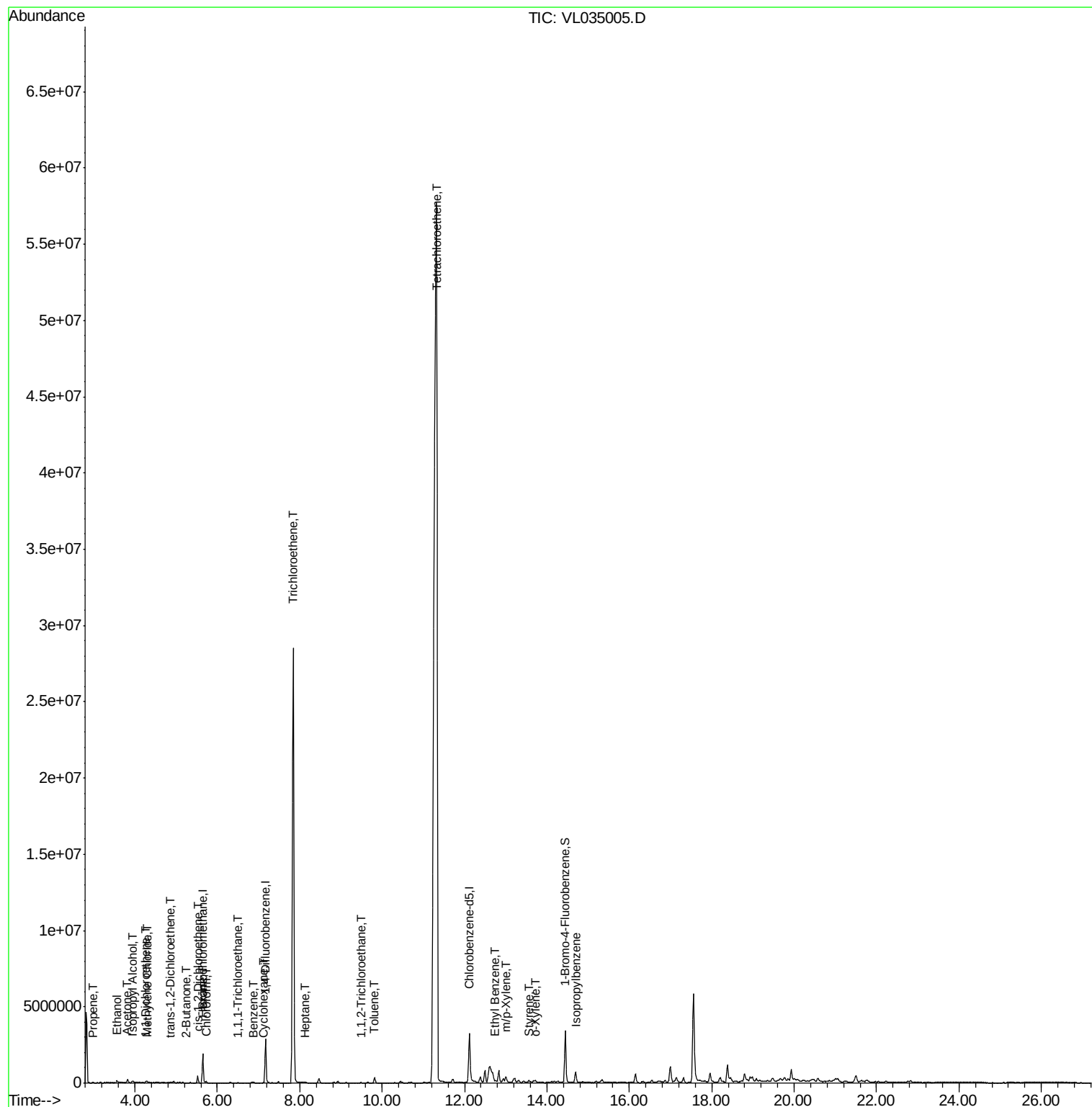
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051220\
Data File : VL035005.D
Acq On : 13 May 2020 2:45
Operator : SY/AP
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Misc : 400ml/MSVOA L
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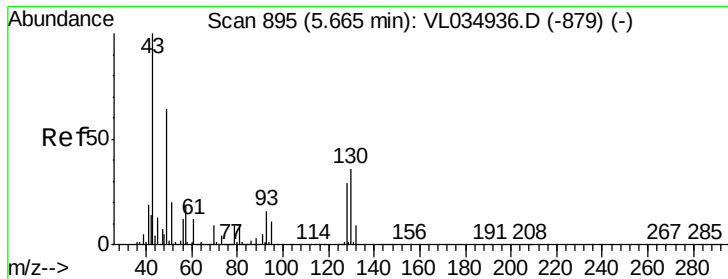
Instrument :
MSVOA_L
ClientSampleId :
SG-5

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5/13/2020 5:13:06 PM

Quant Time: May 14 14:20:09 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL035005.D

Acq: 13 May 2020 2:45

Instrument :

MSVOA_L

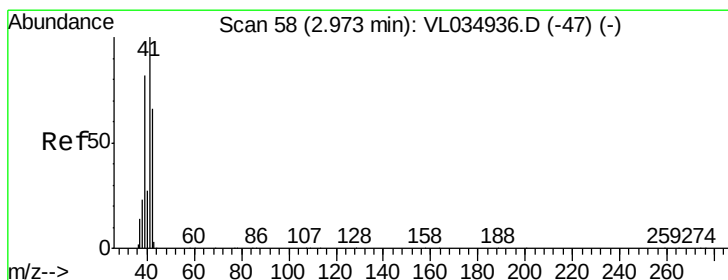
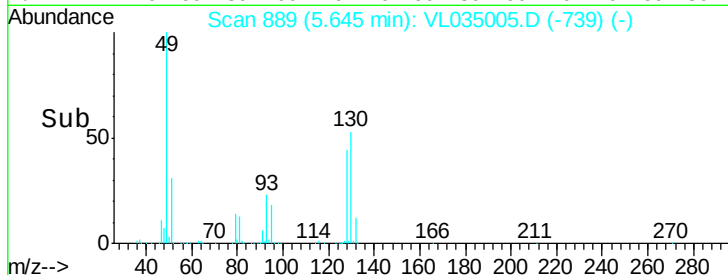
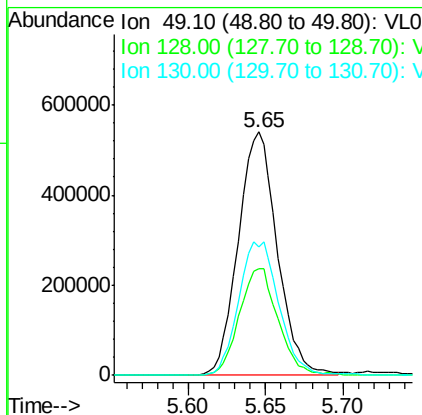
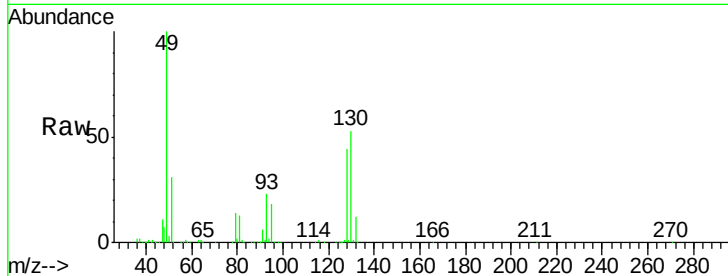
ClientSampled :

SG-5

Tot Ion	Ratio	Lower	Upper
49	100		
128	44.0	22.1	66.5
130	57.1	29.1	87.3

Manual Integrations
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#9

Propene

Concen: 0.273 ppbv

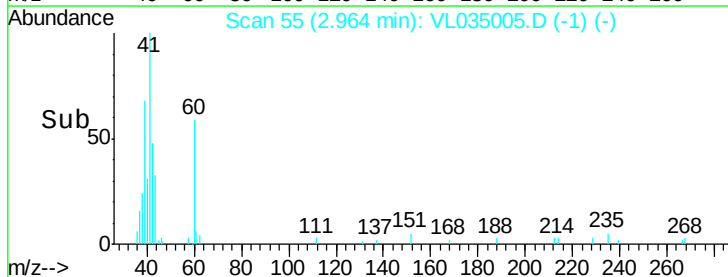
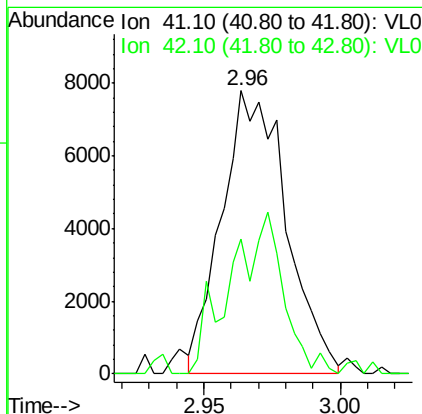
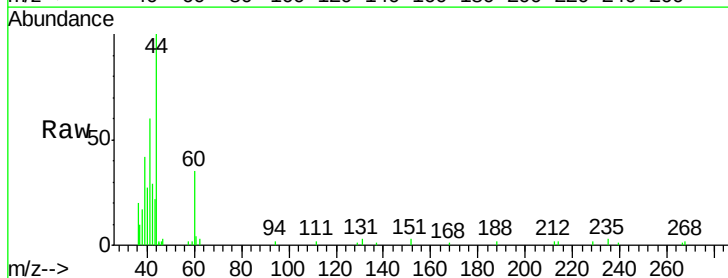
RT: 2.96 min Scan# 55

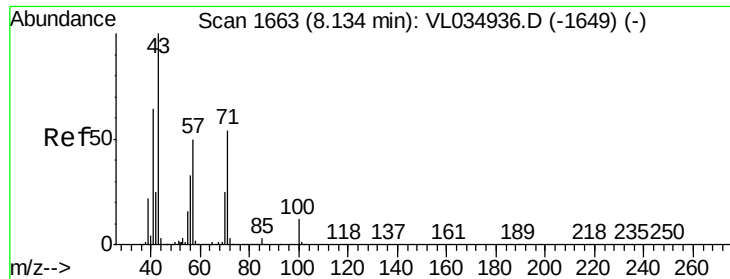
Delta R.T. -0.01 min

Lab File: VL035005.D

Acq: 13 May 2020 2:45

Tgt Ion	Ratio	Lower	Upper
41	100		
42	50.0	54.5	81.7





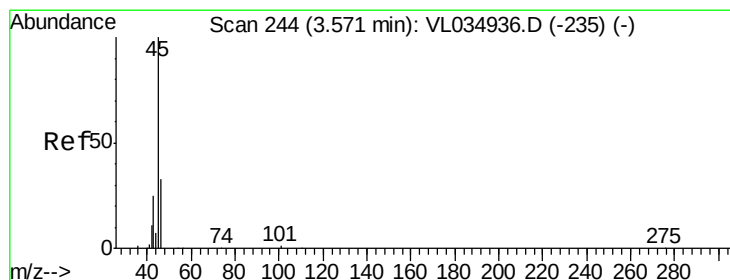
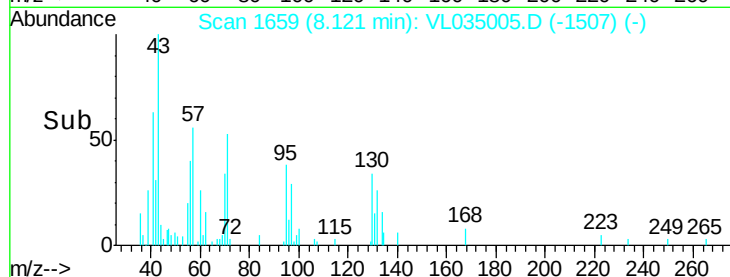
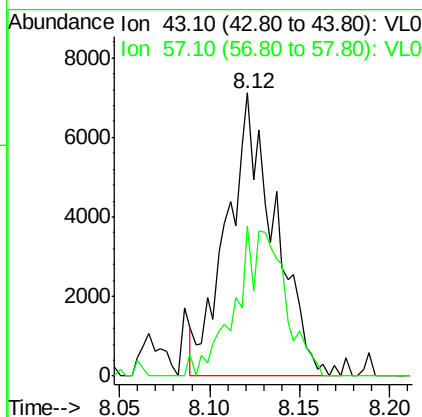
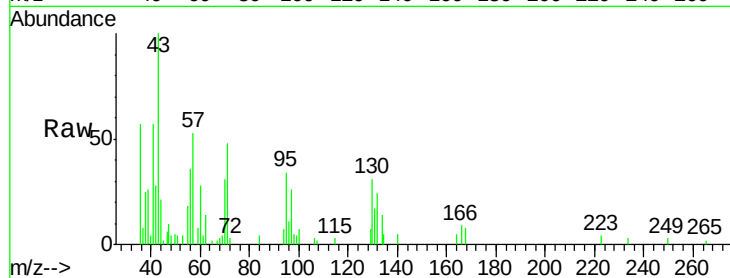
#10
Heptane
Concen: 0.111 ppbv m
RT: 8.12 min Scan# 1659
Delta R.T. -0.01 min
Lab File: VL035005.D
Acq: 13 May 2020 2:45

Instrument :
MSVOA_L
ClientSampled :
SG-5

Tot Ion: 43 Resp: 13100
Ion Ratio Lower Upper
43 100
57 0.0 41.1 61.7#

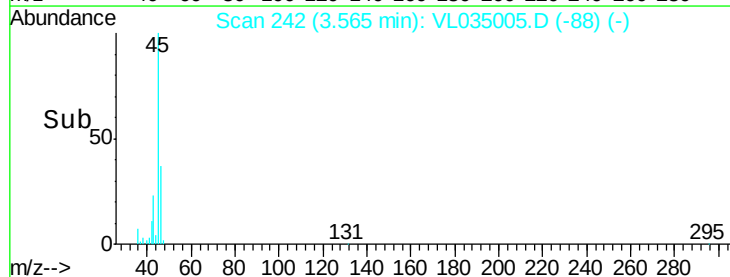
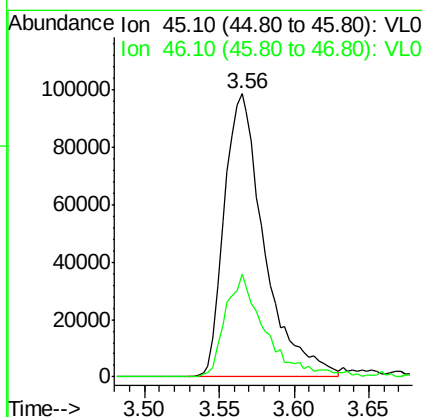
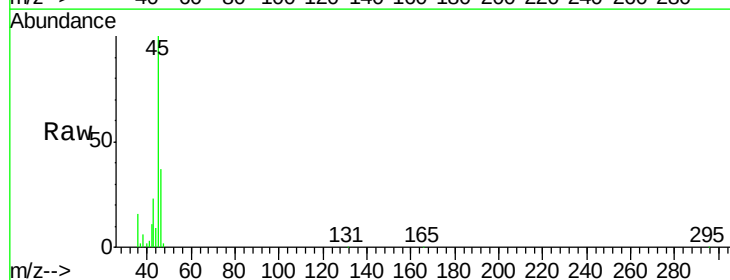
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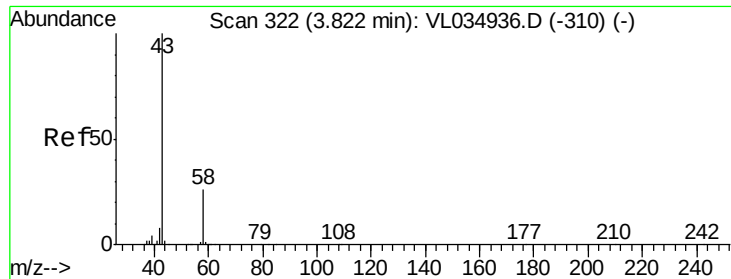
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#13
Ethanol
Concen: 11.897 ppbv
RT: 3.56 min Scan# 242
Delta R.T. -0.01 min
Lab File: VL035005.D
Acq: 13 May 2020 2:45

Tgt Ion: 45 Resp: 184436
Ion Ratio Lower Upper
45 100
46 36.3 14.3 57.3





#15

Acetone

Concen: 1.576 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.01 min

Lab File: VL035005.D

Acq: 13 May 2020 2:45

Instrument :

MSVOA_L

ClientSampled :

SG-5

Tot Ion: 43 Resp: 197634

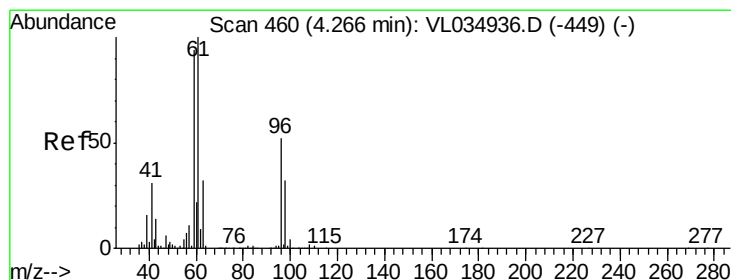
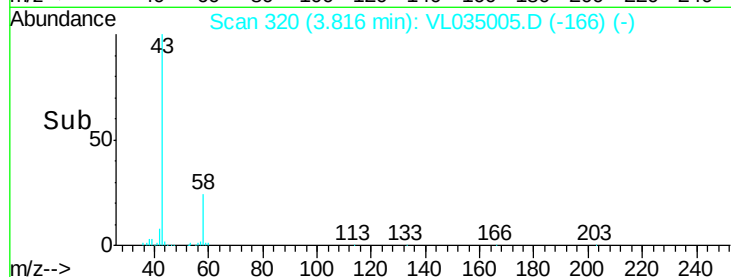
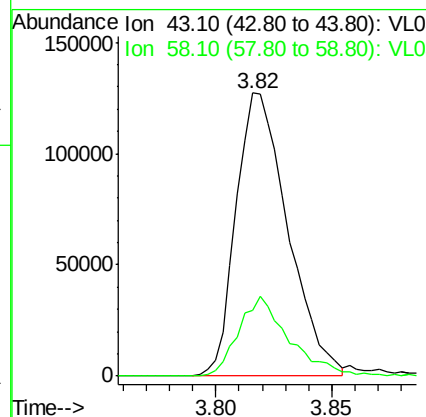
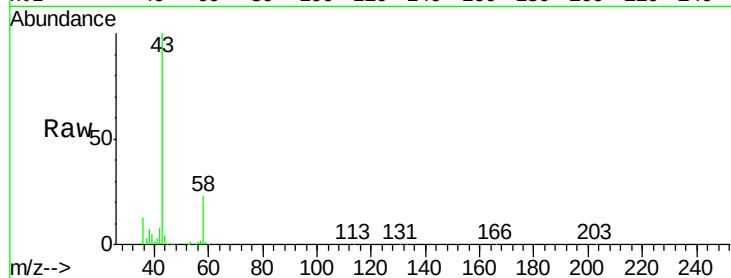
Ion Ratio Lower Upper

43 100

58 27.8 21.7 32.5

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#18

1,1-Dichloroethene

Concen: 0.367 ppbv m

RT: 4.25 min Scan# 456

Delta R.T. -0.01 min

Lab File: VL035005.D

Acq: 13 May 2020 2:45

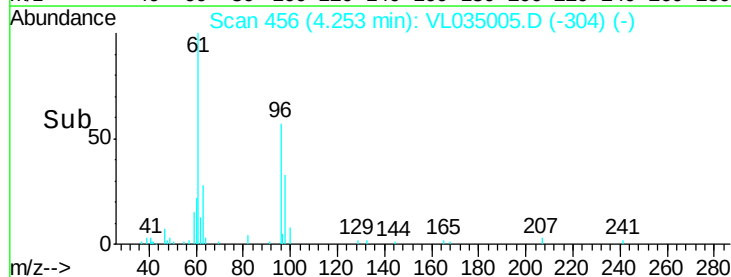
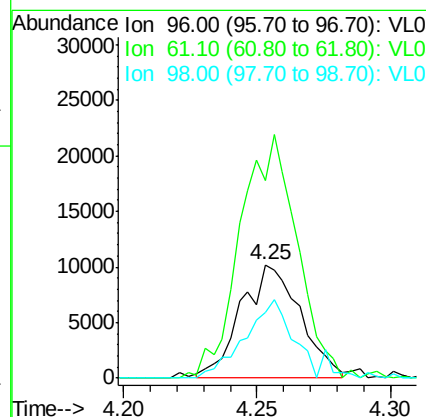
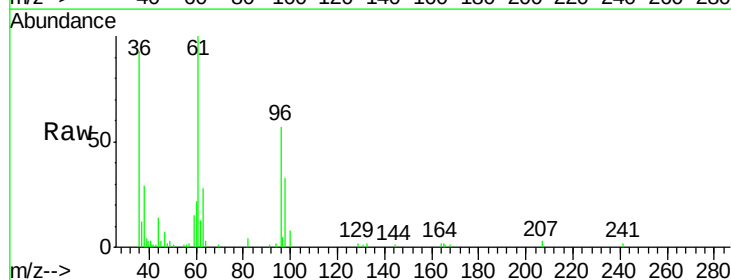
Tgt Ion: 96 Resp: 15724

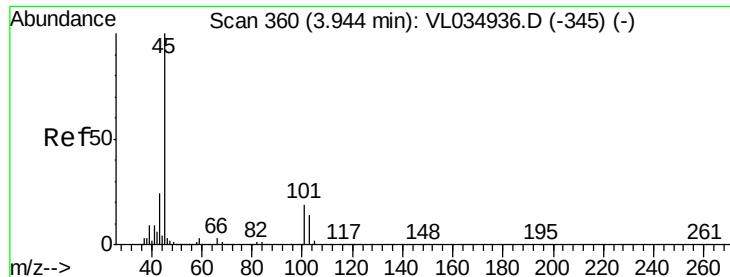
Ion Ratio Lower Upper

96 100

61 174.6 152.4 228.6

98 57.6 48.8 73.2





#19

Isopropyl Alcohol

Concen: 1.534 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.01 min

Lab File: VL035005.D

Acq: 13 May 2020 2:45

Instrument :

MSVOA_L

ClientSampled :

SG-5

Tot Ion: 45 Resp: 128238

Ion Ratio Lower Upper

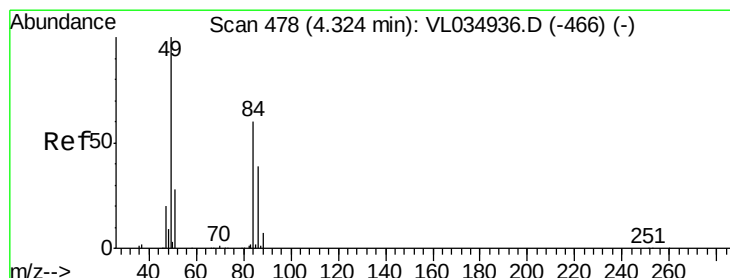
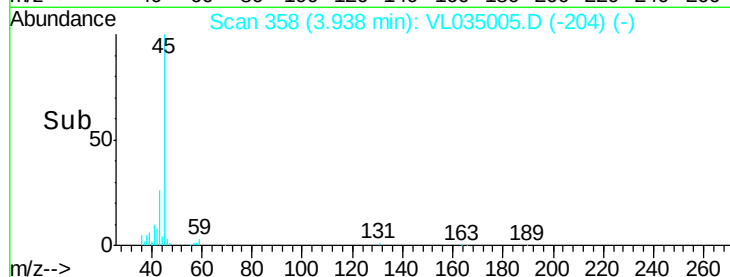
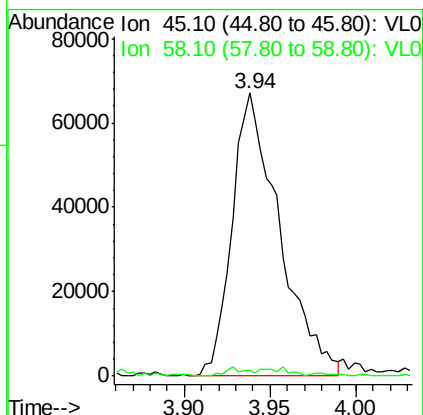
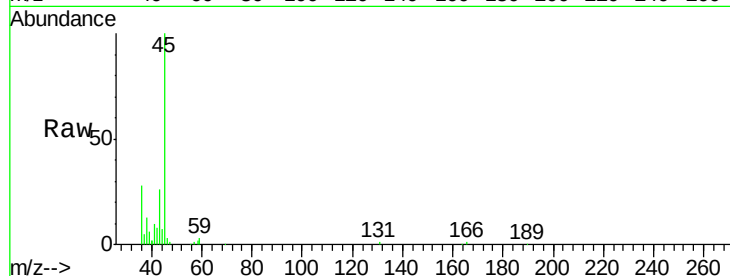
45 100

58 3.4 1.7 2.5#

Manual Integrations
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#20

Methylene Chloride

Concen: 0.370 ppbv m

RT: 4.31 min Scan# 474

Delta R.T. -0.01 min

Lab File: VL035005.D

Acq: 13 May 2020 2:45

Tgt Ion: 84 Resp: 15369

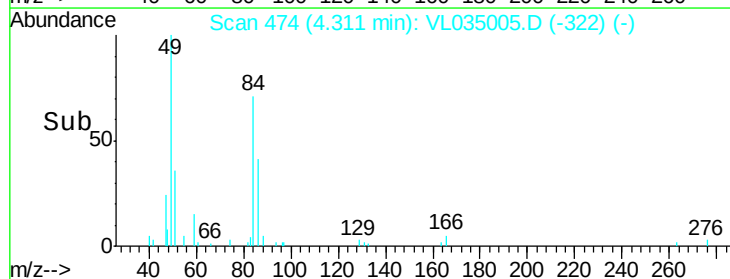
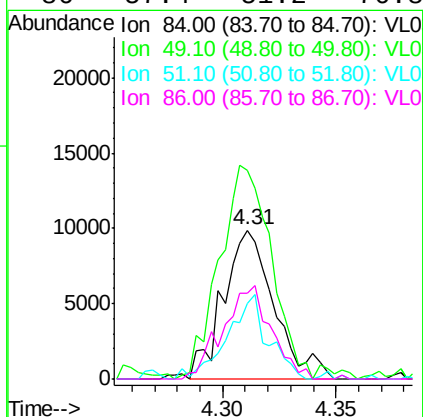
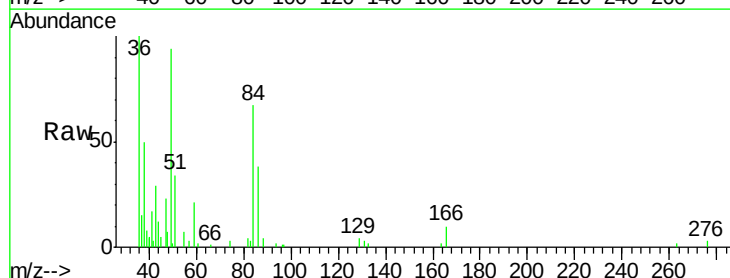
Ion Ratio Lower Upper

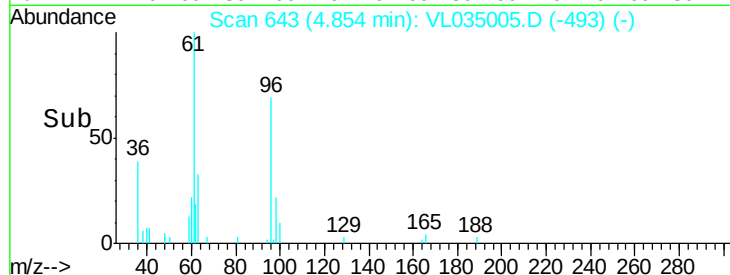
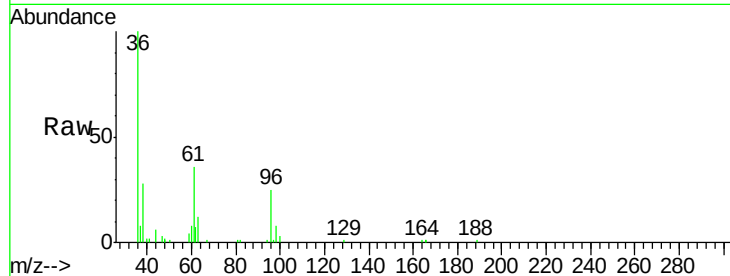
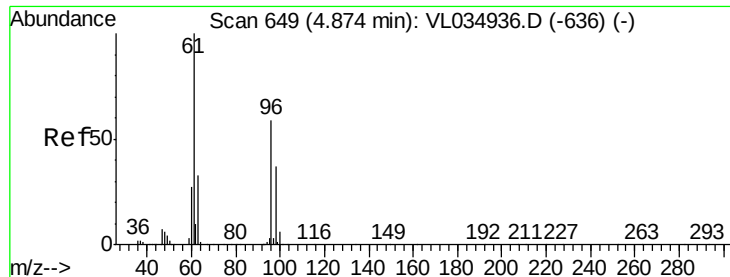
84 100

49 140.5 132.5 198.7

51 50.8 38.4 57.6

86 57.4 51.2 76.8





#22

trans-1,2-Dichloroethene

Concen: 0.153 ppbv m

RT: 4.85 min Scan# 643

Delta R.T. -0.02 min

Lab File: VL035005.D

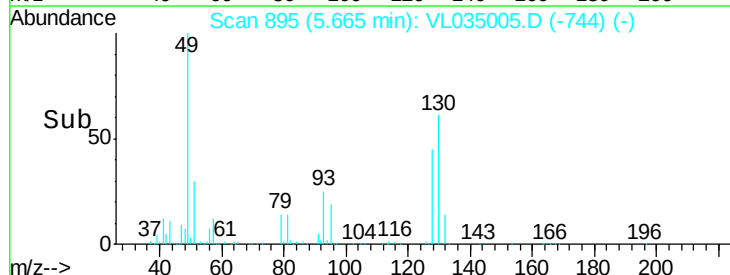
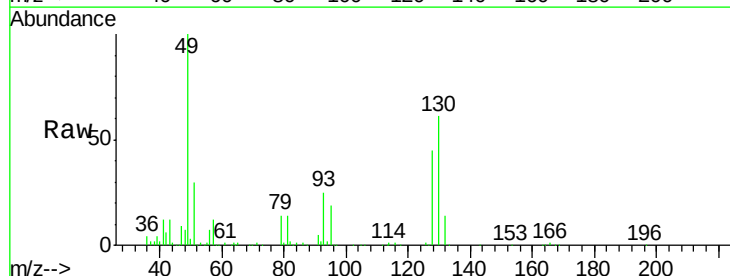
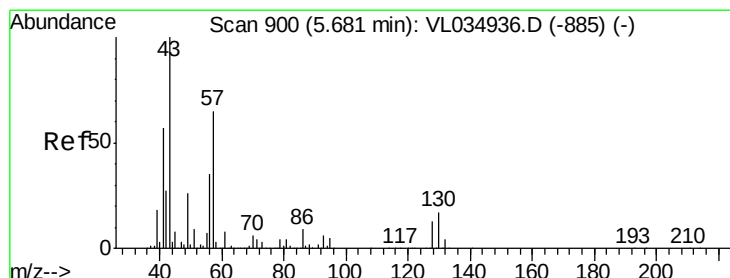
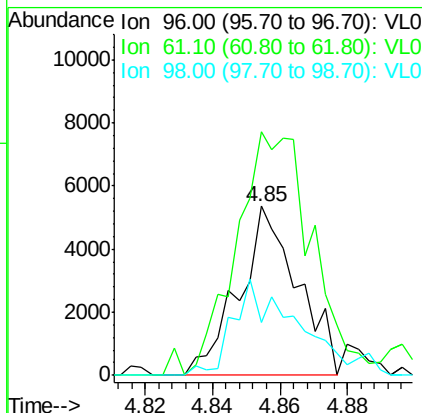
Acq: 13 May 2020 2:45

Tot Ion:	96	Resp:	6504
Ion Ratio	Lower	Upper	
96	100		
61	144.0	135.3	202.9
98	31.4	50.4	75.6#

Instrument :
MSVOA_L
ClientSampled :
SG-5

Manual Integrations
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#26

Hexane

Concen: 0.286 ppbv

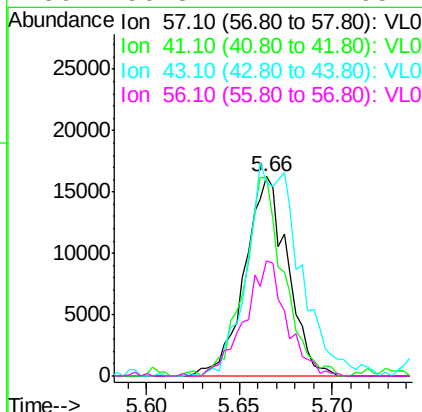
RT: 5.66 min Scan# 895

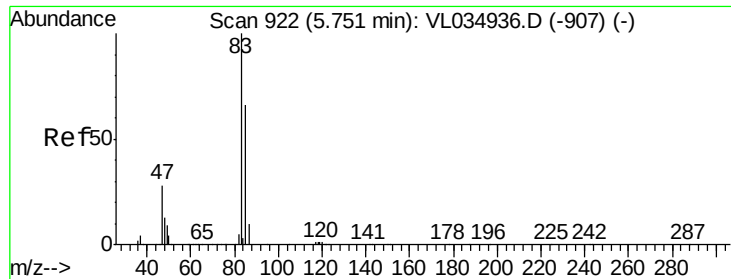
Delta R.T. -0.02 min

Lab File: VL035005.D

Acq: 13 May 2020 2:45

Tgt Ion:	57	Resp:	26127
Ion Ratio	Lower	Upper	
57	100		
41	93.9	72.7	109.1
43	132.4	182.1	273.1#
56	56.3	42.2	63.2





#29

Chloroform

Concen: 0.528 ppbv

RT: 5.73 min Scan# 915

Delta R.T. -0.02 min

Lab File: VL035005.D

Acq: 13 May 2020 2:45

Instrument :

MSVOA_L

ClientSampled :

SG-5

Tot Ion: 83 Resp: 78885

Ion Ratio Lower Upper

83 100

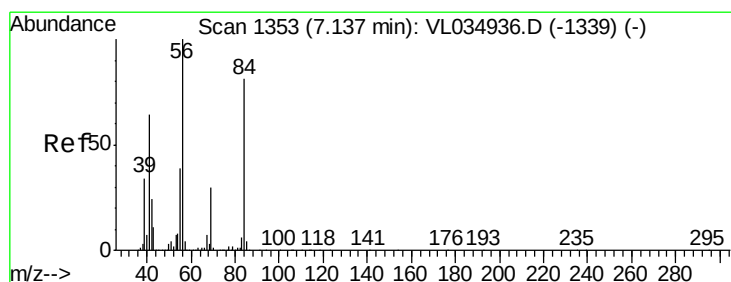
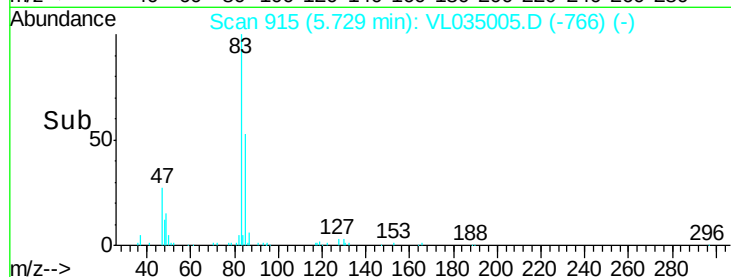
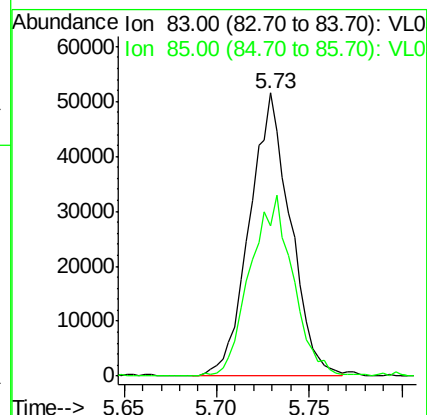
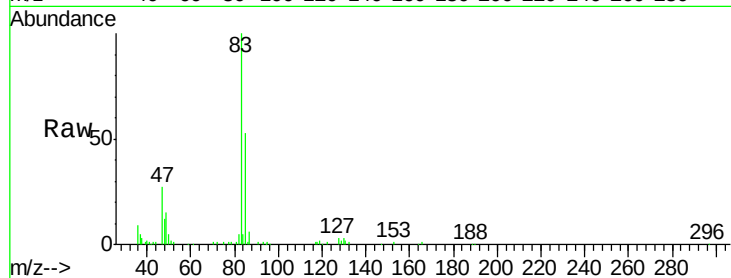
85 53.1 53.0 79.6

Manual Integrations

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#30

Cyclohexane

Concen: 0.127 ppbv m

RT: 7.12 min Scan# 1348

Delta R.T. -0.02 min

Lab File: VL035005.D

Acq: 13 May 2020 2:45

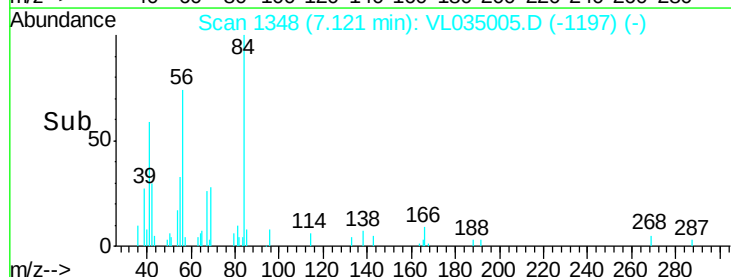
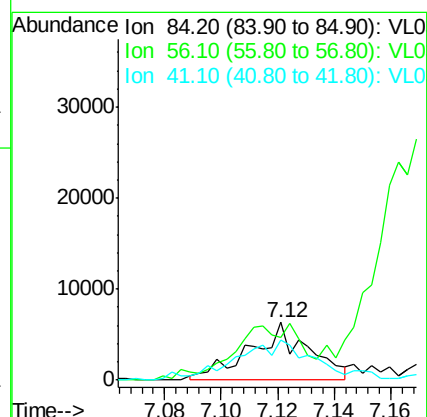
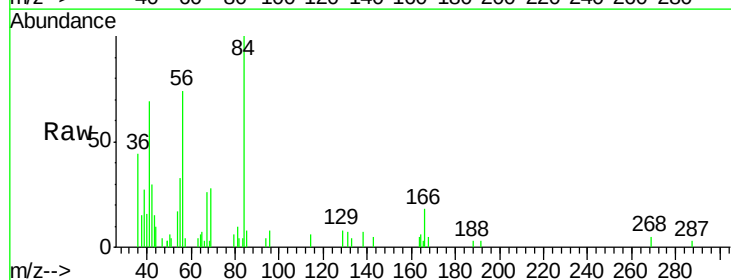
Tgt Ion: 84 Resp: 8944

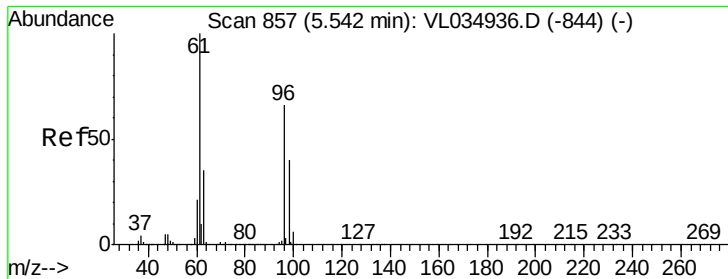
Ion Ratio Lower Upper

84 100

56 0.0 111.4 167.2#

41 0.0 66.7 100.1#





#31

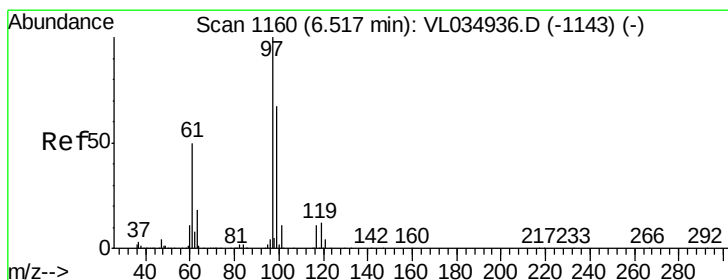
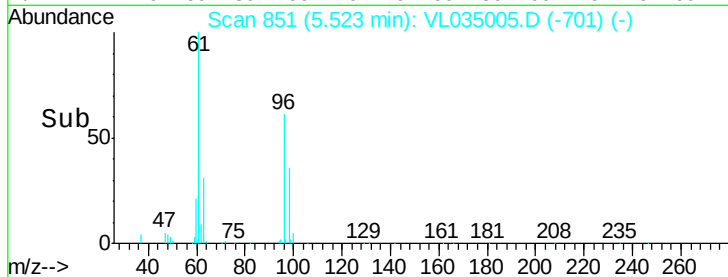
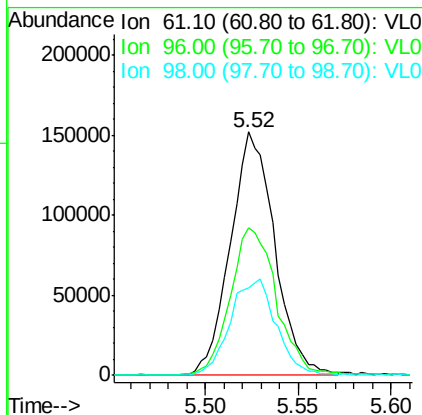
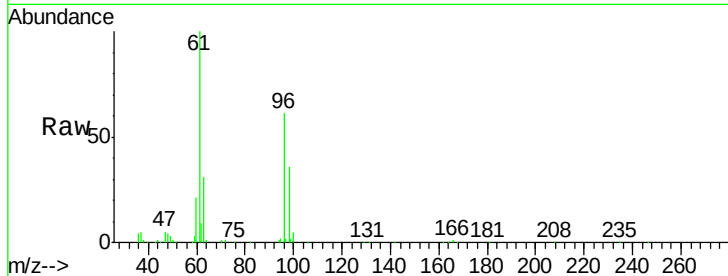
cis-1,2-Dichloroethene
 Concen: 2.814 ppbv
 RT: 5.52 min Scan# 851
 Delta R.T. -0.02 min
 Lab File: VL035005.D
 Acq: 13 May 2020 2:45

Instrument :
 MSVOA_L
 ClientSampled :
 SG-5

Tot Ion	Ratio	Resp	Lower	Upper
61	100	250680		
96	60.2		53.0	79.6
98	35.5		32.2	48.2

Manual Integrations
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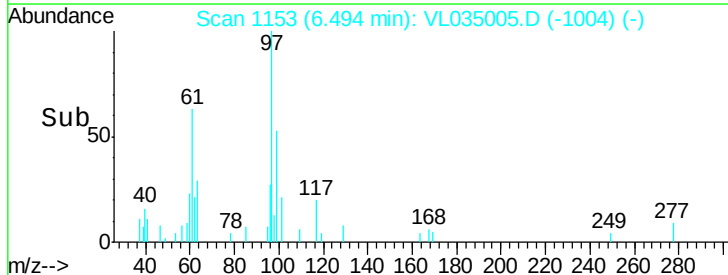
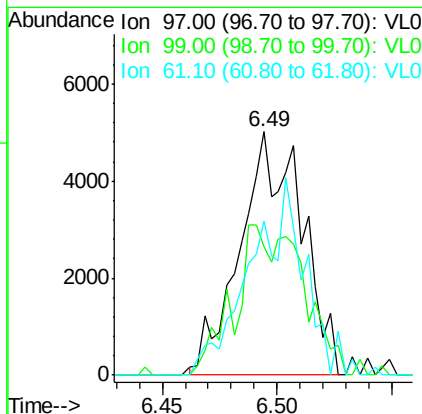
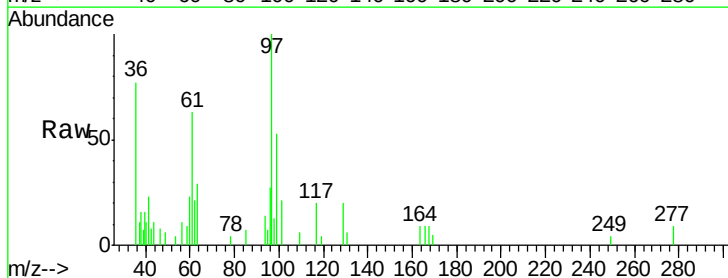
MMDadoda
 5/13/2020 5:13:06 PM

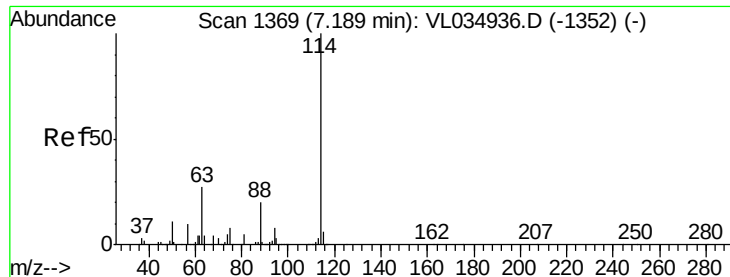


#32

1,1,1-Trichloroethane
 Concen: 0.069 ppbv m
 RT: 6.49 min Scan# 1153
 Delta R.T. -0.02 min
 Lab File: VL035005.D
 Acq: 13 May 2020 2:45

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	9339		
99	69.3		52.1	78.1
61	0.0		41.8	62.8#





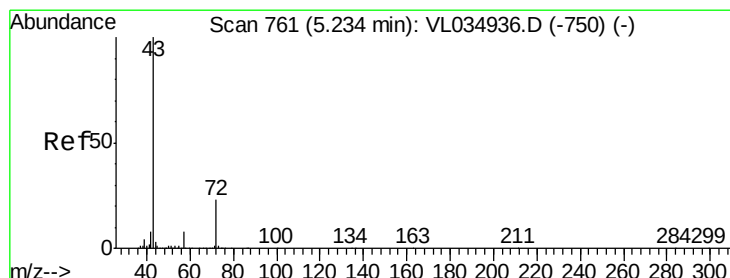
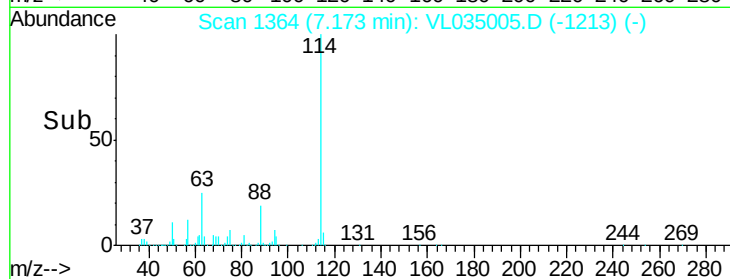
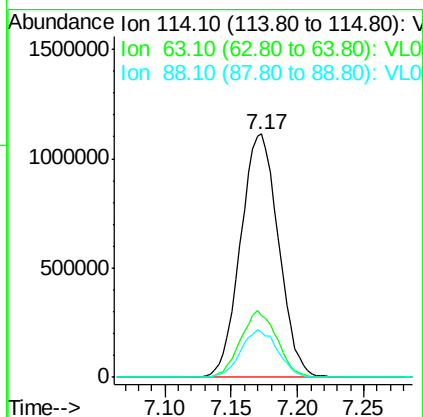
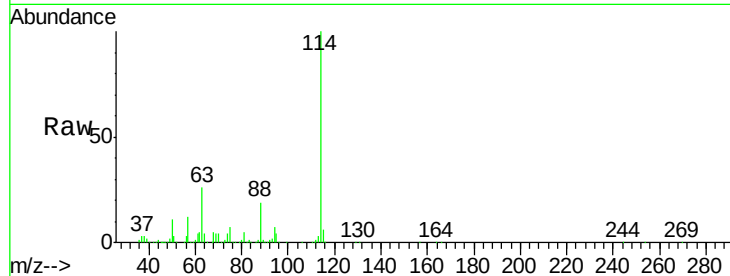
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.02 min
 Lab File: VL035005.D
 Acq: 13 May 2020 2:45

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-5

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.4	22.2	33.4
88	19.0	15.5	23.3

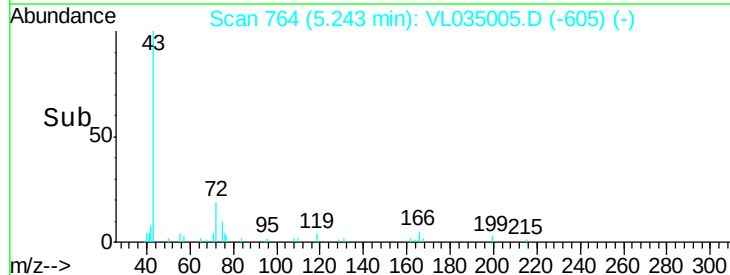
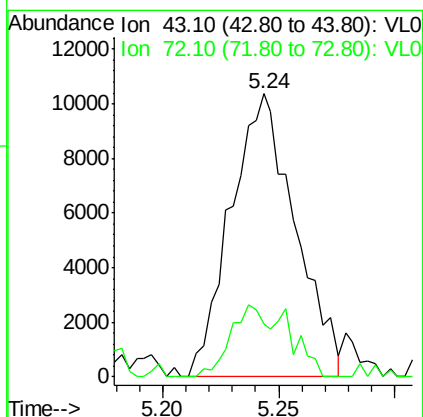
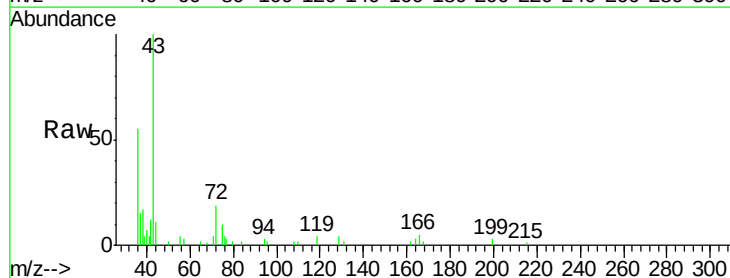
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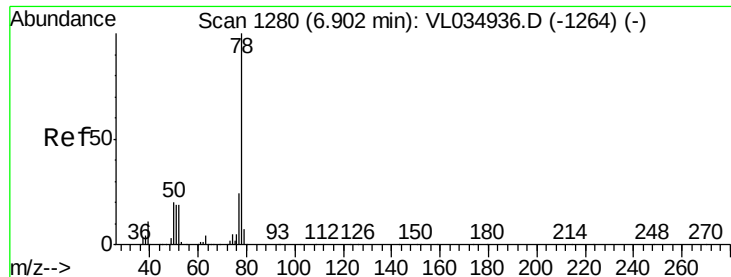
MMDadoda
 5/13/2020 5:13:06 PM



#34
 2-Butanone
 Concen: 0.145 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL035005.D
 Acq: 13 May 2020 2:45

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.0	27.0





#36

Benzene

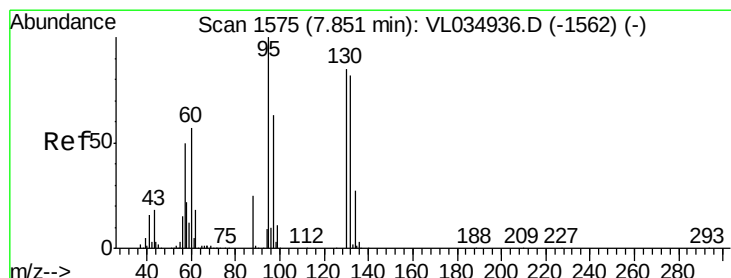
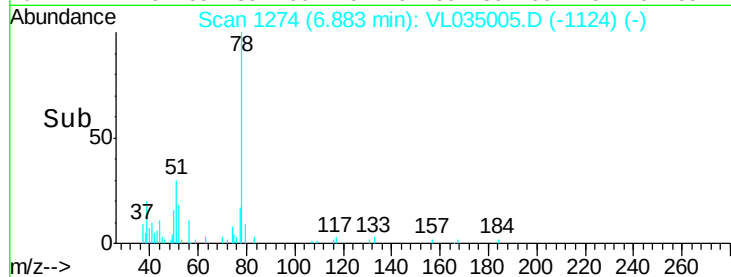
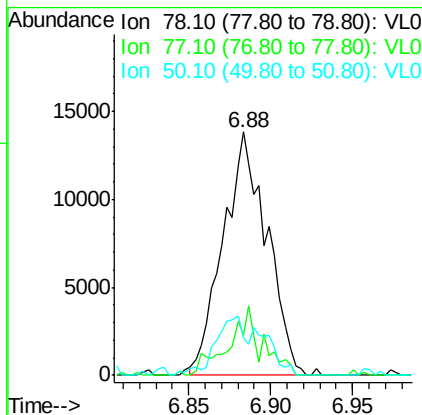
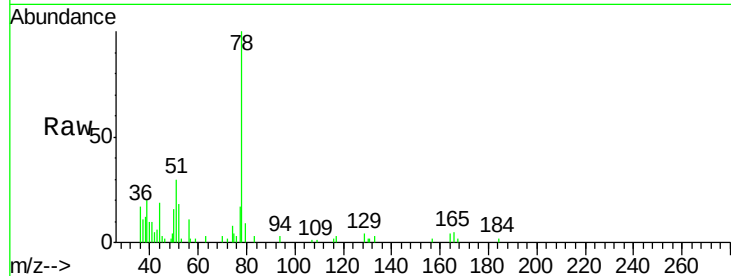
Concen: 0.141 ppbv m
 RT: 6.88 min Scan# 1274
 Delta R.T. -0.02 min
 Lab File: VL035005.D
 Acq: 13 May 2020 2:45

Instrument :
 MSVOA_L
 ClientSampled :
 SG-5

Tot Ion	Ratio	Lower	Upper
78	100		
77	16.7	19.0	28.6#
50	15.6	15.8	23.8#

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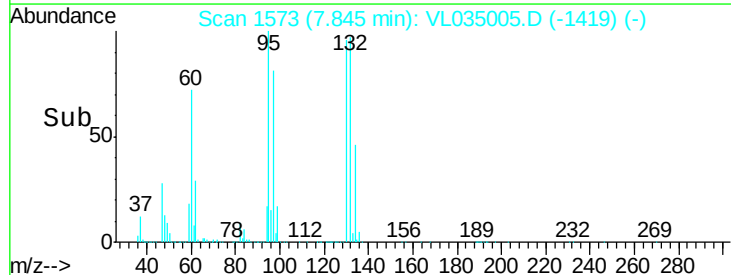
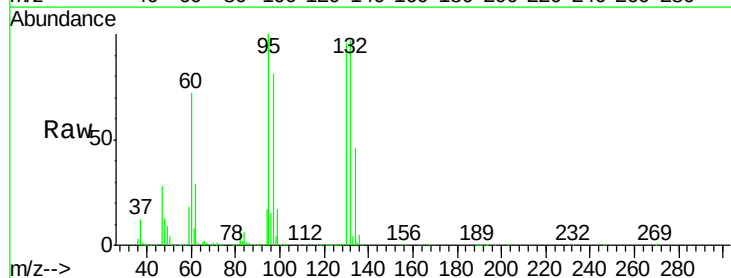
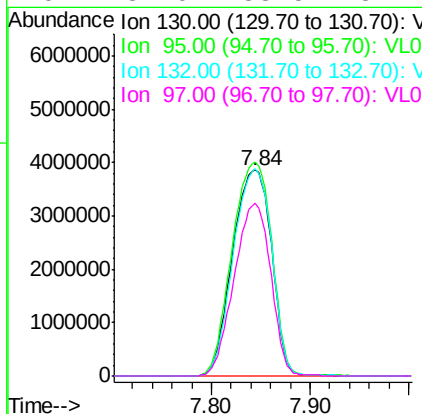


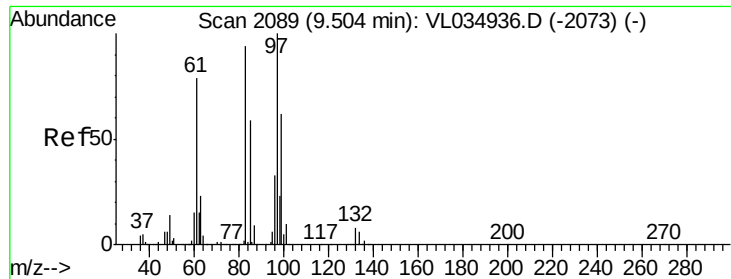
#38

Trichloroethene

Concen: 149.482 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. -0.01 min
 Lab File: VL035005.D
 Acq: 13 May 2020 2:45

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.7	93.4	140.0
132	100.4	76.4	114.6
97	84.0	58.5	87.7





#47

1,1,2-Trichloroethane

Concen: 0.123 ppbv m

RT: 9.49 min Scan# 2086

Delta R.T. -0.01 min

Lab File: VL035005.D

Acq: 13 May 2020 2:45

Instrument :

MSVOA_L

ClientSampleId :

SG-5

Tot Ion: 97 Resp: 9554

Ion Ratio Lower Upper

97 100

83 52.4 75.6 113.4#

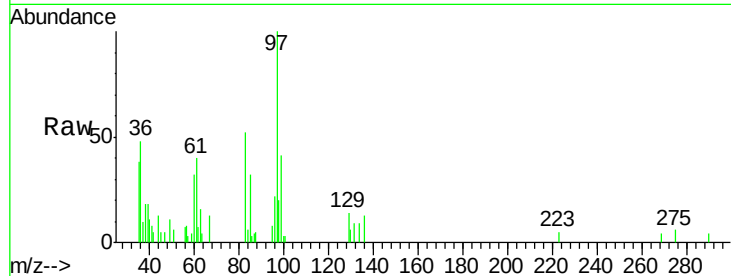
85 32.4 47.0 70.6#

99 41.3 49.4 74.2#

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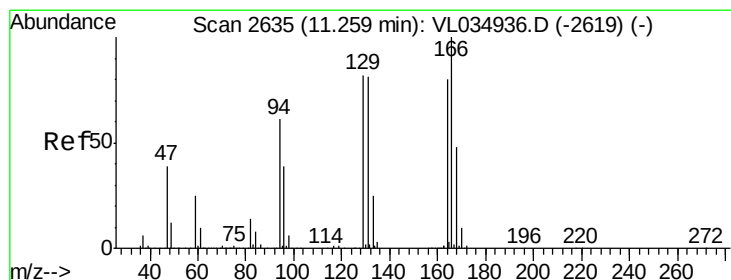
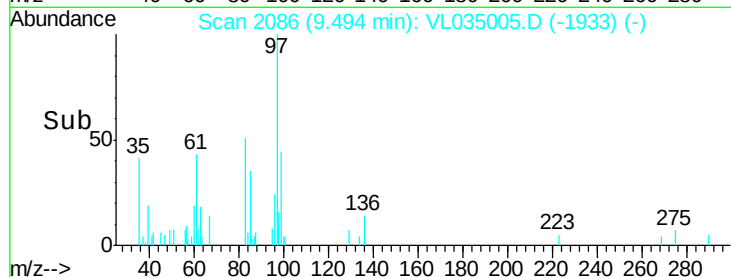
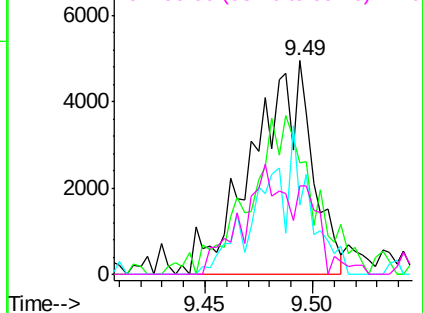


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#52

Tetrachloroethene

Concen: 440.040 ppbv

RT: 11.32 min Scan# 2655

Delta R.T. 0.06 min

Lab File: VL035005.D

Acq: 13 May 2020 2:45

Tgt Ion:164 Resp:28656279

Ion Ratio Lower Upper

164 100

166 107.1 100.7 151.1

129 98.4 83.0 124.4

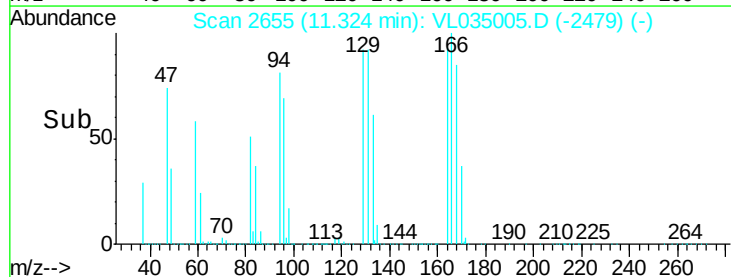
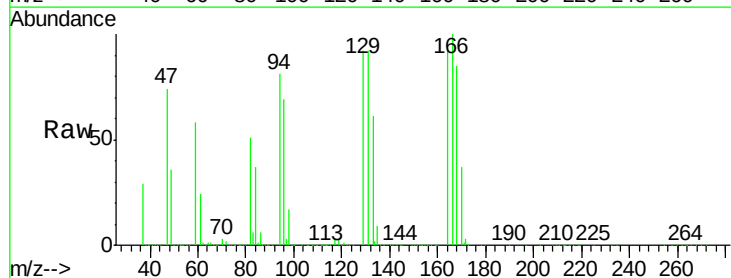
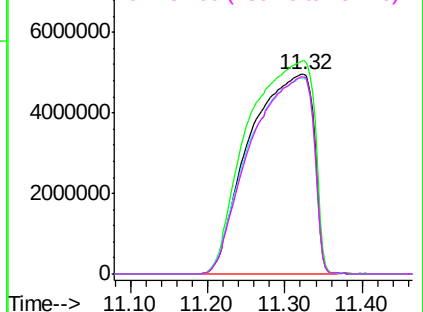
131 99.0 81.0 121.4

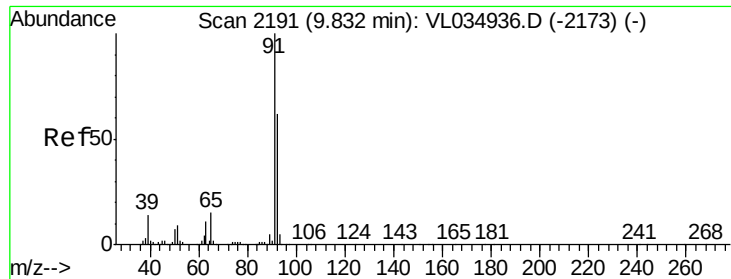
Abundance Ion 163.90 (163.60 to 164.60): V

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

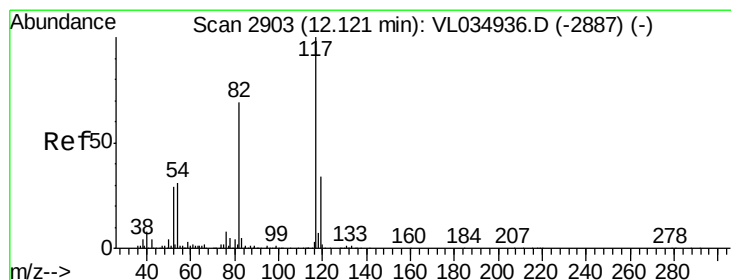
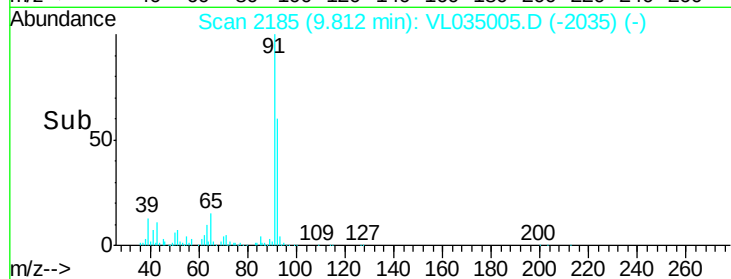
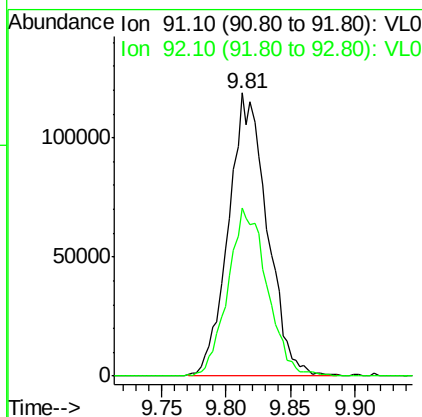
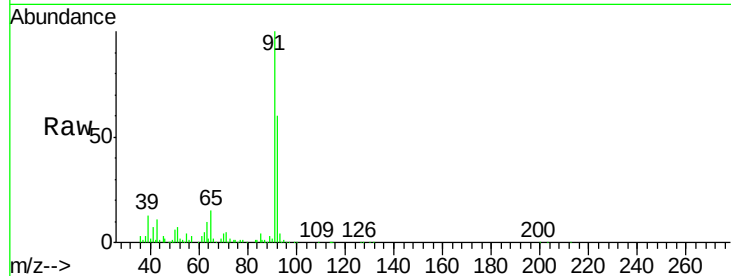
Concen: 1.278 ppbv m
RT: 9.81 min Scan# 2185
Delta R.T. -0.02 min
Lab File: VL035005.D
Acq: 13 May 2020 2:45

Instrument :
MSVOA_L
ClientSampleId :
SG-5

Tot Ion	Ratio	Lower	Upper
91	100		
92	59.9	48.6	73.0

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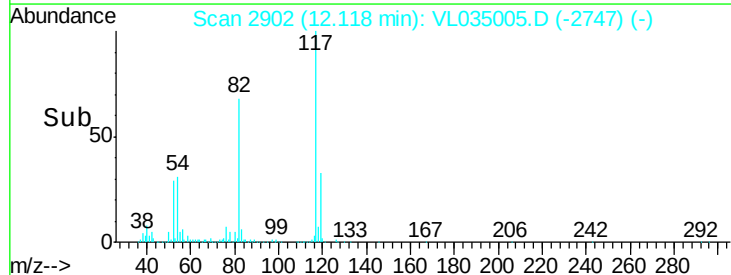
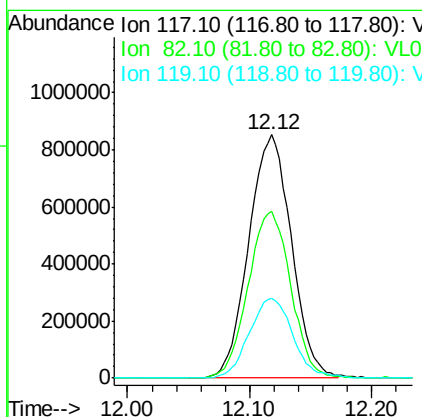
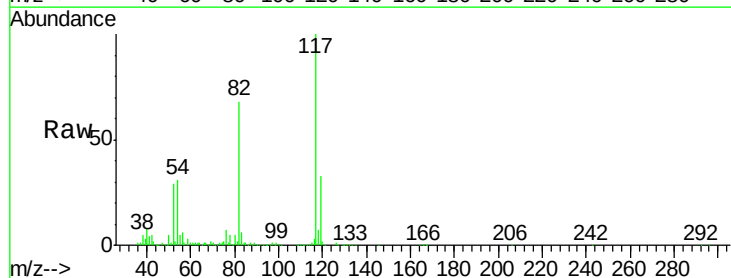


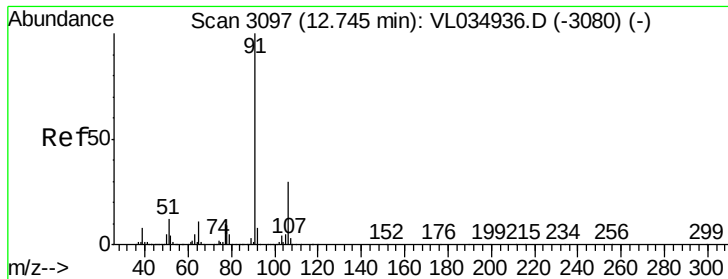
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. -0.00 min
Lab File: VL035005.D
Acq: 13 May 2020 2:45

Tgt Ion	Ratio	Lower	Upper
117	100		
82	68.6	53.1	79.7
119	33.6	26.7	40.1





#58

Ethyl Benzene

Concen: 0.166 ppbv m

RT: 12.75 min Scan# 3099

Delta R.T. 0.01 min

Lab File: VL035005.D

Acq: 13 May 2020 2:45

Instrument :

MSVOA_L

ClientSampled :

SG-5

Tot Ion: 91 Resp: 42338

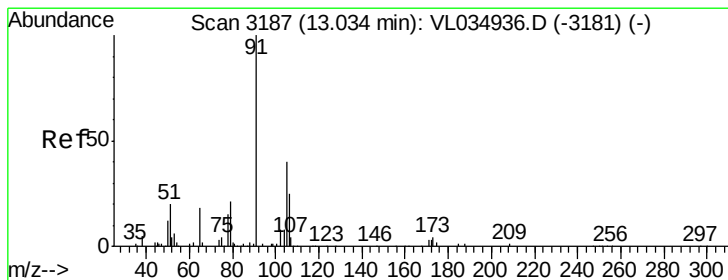
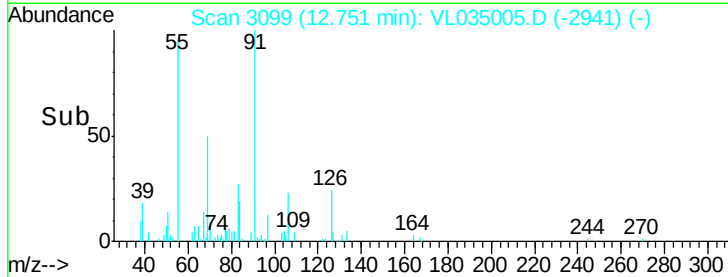
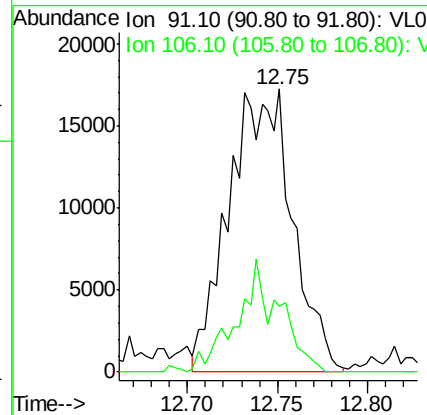
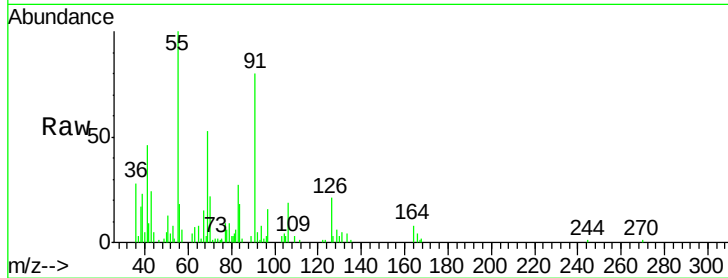
Ion Ratio Lower Upper

91 100

106 23.3 24.2 36.4#

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#59

m/p-Xylene

Concen: 0.428 ppbv m

RT: 13.00 min Scan# 3176

Delta R.T. -0.04 min

Lab File: VL035005.D

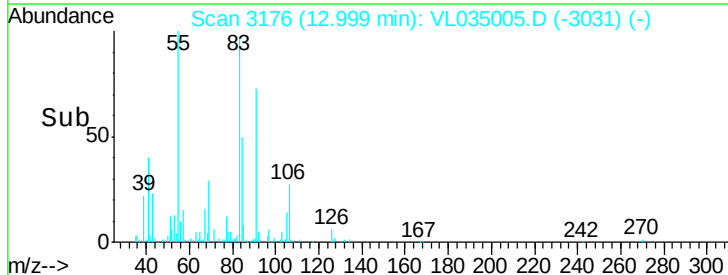
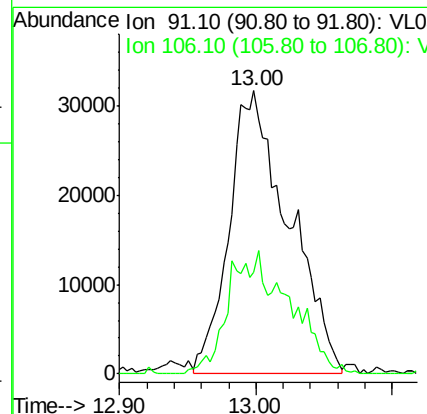
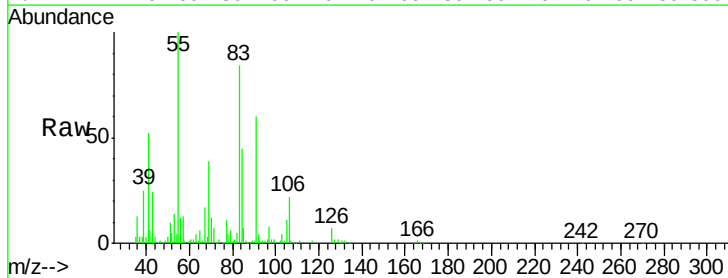
Acq: 13 May 2020 2:45

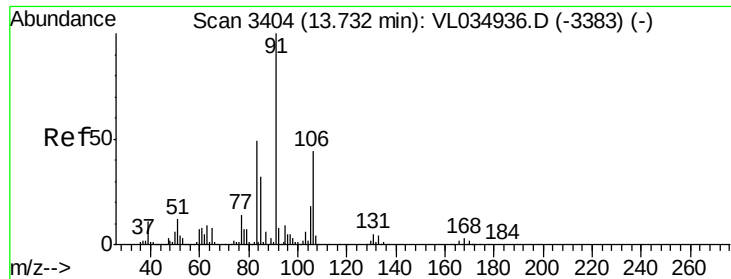
Tgt Ion: 91 Resp: 96168

Ion Ratio Lower Upper

91 100

106 0.0 66.0 99.0#





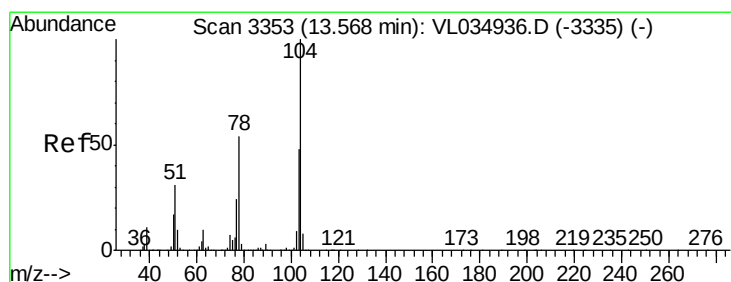
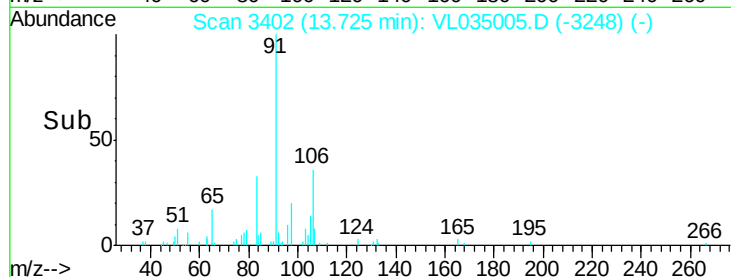
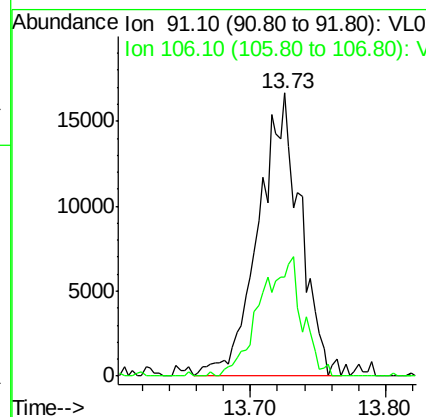
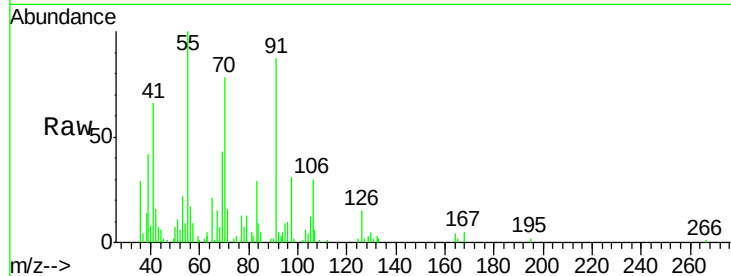
#60
o-Xylene
Concen: 0.162 ppbv m
RT: 13.73 min Scan# 3402
Delta R.T. -0.01 min
Lab File: VL035005.D
Acq: 13 May 2020 2:45

Instrument :
MSVOA_L
ClientSampled :
SG-5

Tot Ion: 91 Resp: 35995
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.5#

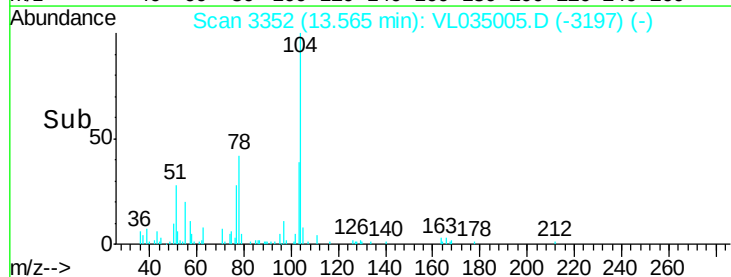
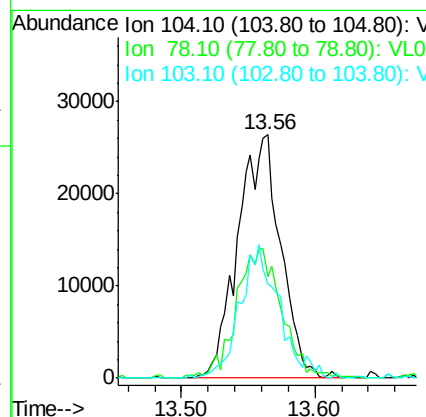
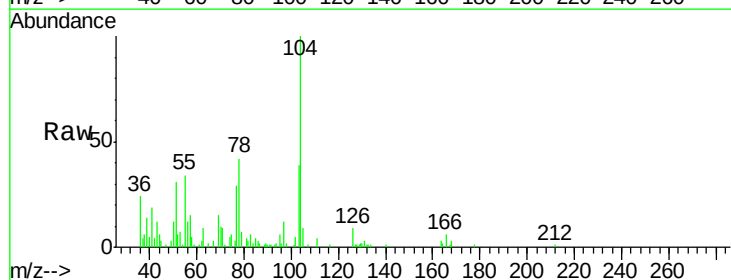
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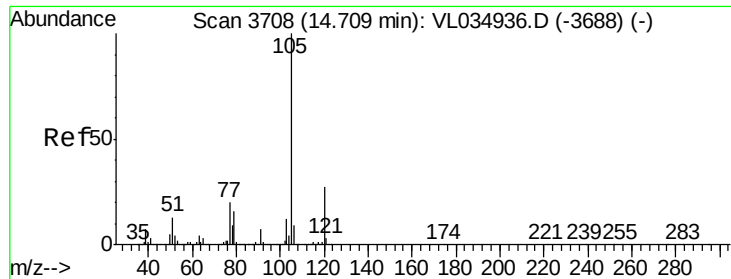
MMDadoda
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#61
Styrene
Concen: 0.420 ppbv m
RT: 13.56 min Scan# 3352
Delta R.T. -0.00 min
Lab File: VL035005.D
Acq: 13 May 2020 2:45

Tgt Ion:104 Resp: 58932
Ion Ratio Lower Upper
104 100
78 56.2 43.7 65.5
103 49.9 38.8 58.2





#62

Isopropylbenzene

Concen: 1.987 ppbv

RT: 14.70 min Scan# 3704

Delta R.T. -0.01 min

Lab File: VL035005.D

Acq: 13 May 2020 2:45

Instrument :

MSVOA_L

ClientSampled :

SG-5

Tot Ion: 105 Resp: 657575

Ion Ratio Lower Upper

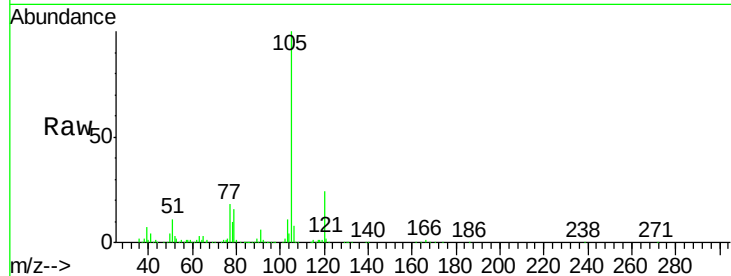
105 100

120 24.1 20.6 31.0

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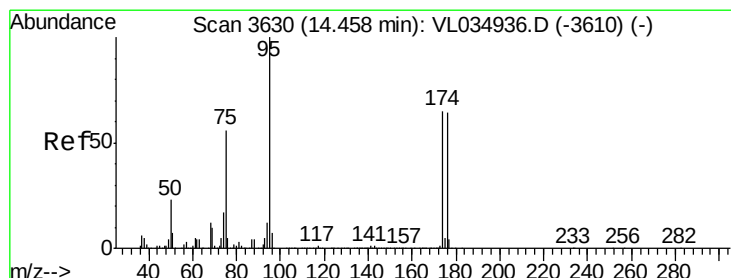
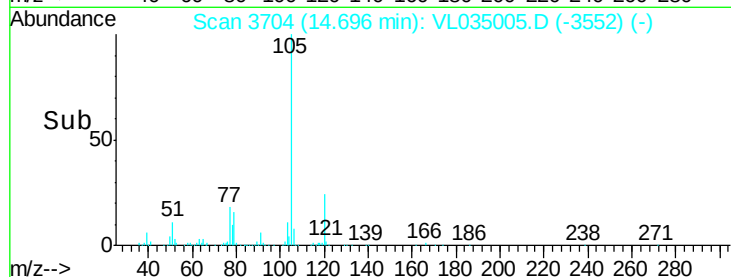
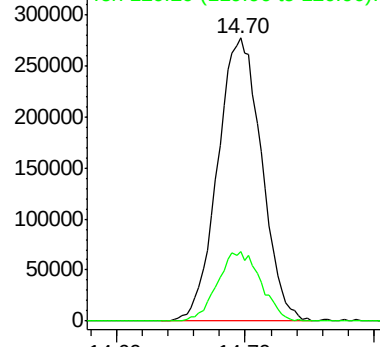
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.129 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. -0.01 min

Lab File: VL035005.D

Acq: 13 May 2020 2:45

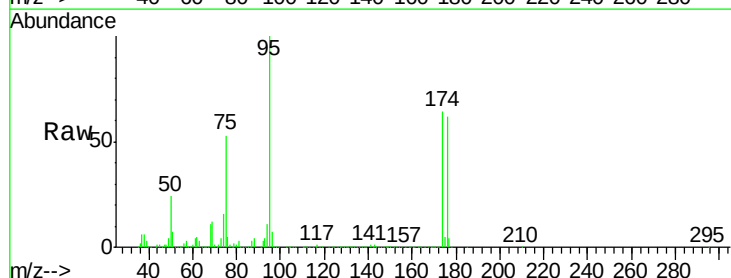
Tgt Ion: 95 Resp: 1693096

Ion Ratio Lower Upper

95 100

174 66.0 51.5 77.3

175 4.8 3.8 5.8



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

