

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035050.D
 Acq On : 19 May 2020 18:59
 Operator : SY/AP
 Sample : L2683-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FL-IA

Manual Integrations
 APPROVED

MMDadoda
 5/20/2020 4:27:29 PM

Quant Time: May 20 09:34:14 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	1131056	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2538436	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2413448	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.43	95	2134951	10.93	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	50673	0.316	ppbv	100
3) Chlorodifluoromethane	2.94	51	81191m	0.629	ppbv	
4) Chloromethane	3.09	50	35449	0.479	ppbv	94
9) Propene	2.97	41	78266m	1.397	ppbv	
11) Trichlorofluoromethane	3.92	101	43783	0.265	ppbv	84
13) Ethanol	3.56	45	465447	25.172	ppbv	100
15) Acetone	3.80	43	3990480	26.687	ppbv	99
19) Isopropyl Alcohol	3.93	45	95301	0.956	ppbv #	94
20) Methylene Chloride	4.31	84	37690m	0.761	ppbv	
26) Hexane	5.66	57	29807m	0.274	ppbv	
34) 2-Butanone	5.22	43	30509m	0.193	ppbv	
35) Carbon Tetrachloride	7.01	117	10270m	0.064	ppbv	
36) Benzene	6.87	78	24931m	0.119	ppbv	
38) Trichloroethene	7.83	130	5603m	0.069	ppbv	
52) Tetrachloroethene	11.23	164	243600	3.273	ppbv	93
53) Toluene	9.81	91	53821	0.243	ppbv	96
59) m/p-Xylene	12.98	91	74841m	0.285	ppbv	

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

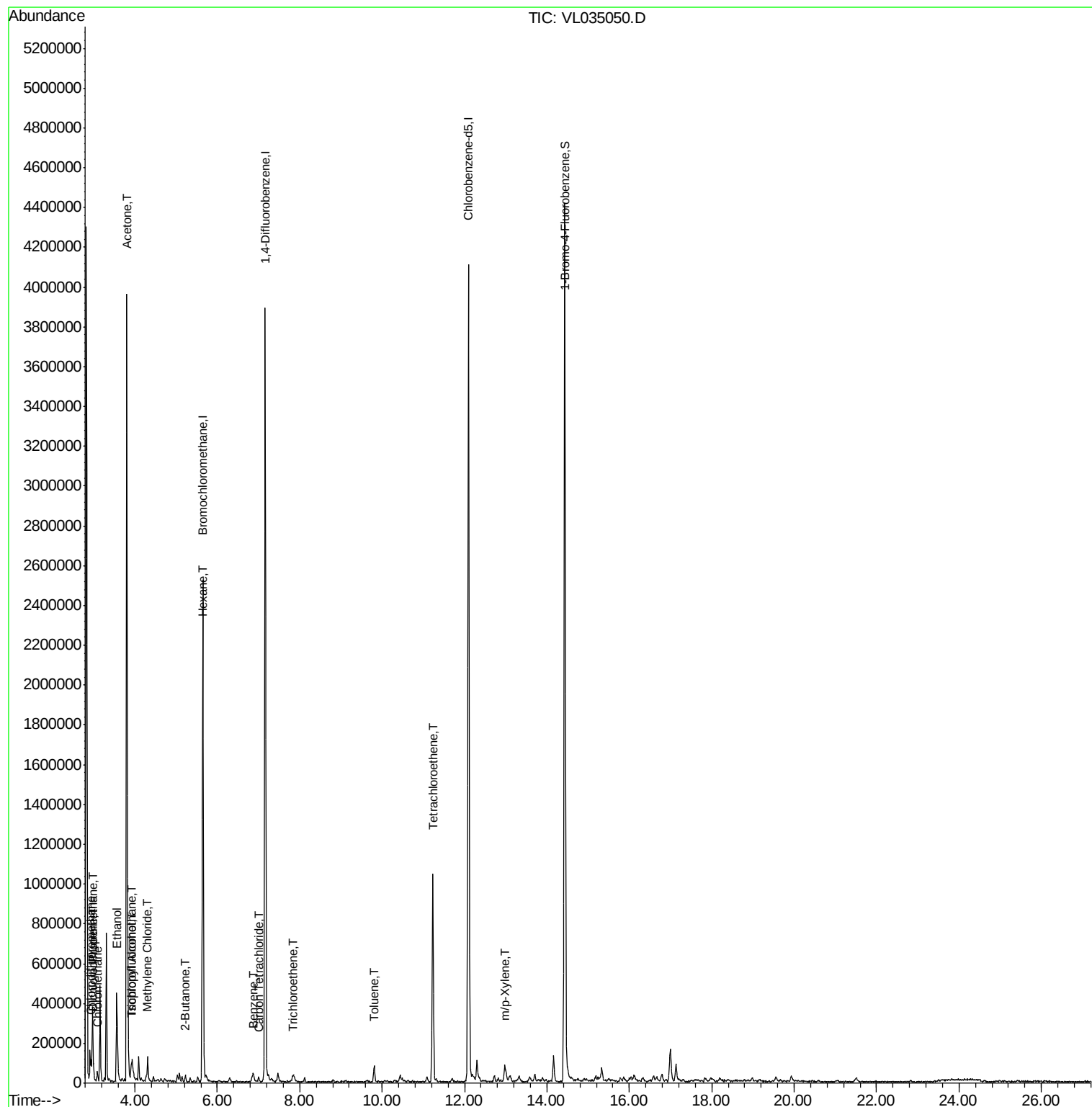
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051920\
Data File : VL035050.D
Acq On : 19 May 2020 18:59
Operator : SY/AP
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Misc : 400ml/MSVOA L
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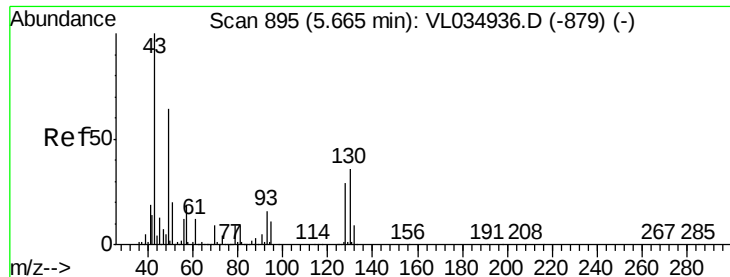
Instrument :
MSVOA_L
ClientSampleId :
FL-IA

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Quant Time: May 20 09:34:14 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: VL035050.D

Acq: 19 May 2020 18:59

Instrument :

MSVOA_L

ClientSampleId :

FL-IA

Tot Ion: 49 Resp: 1131056

Ion Ratio Lower Upper

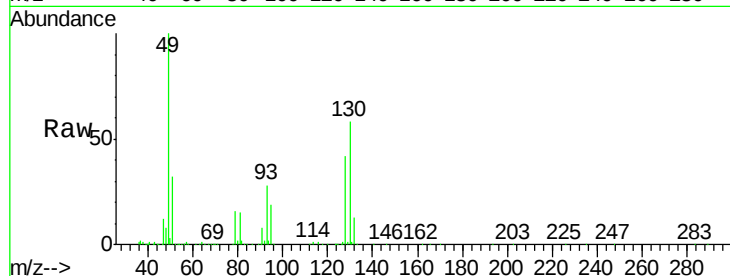
49 100

128 44.6 22.1 66.5

130 57.6 29.1 87.3

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

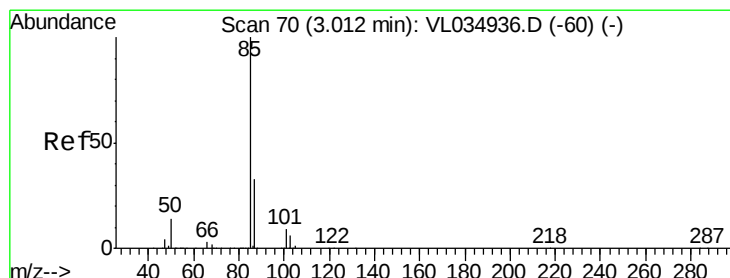
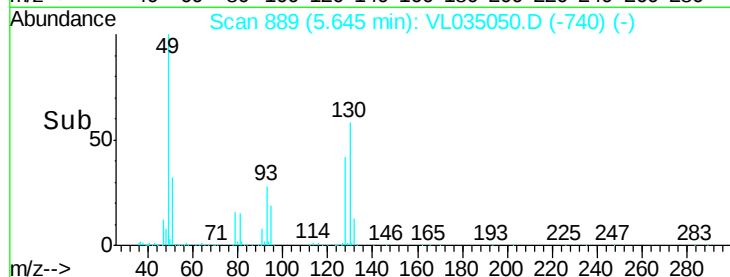
400000

200000

0

5.60 5.65 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.316 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.02 min

Lab File: VL035050.D

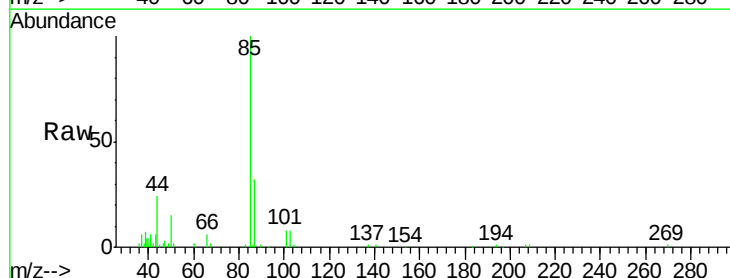
Acq: 19 May 2020 18:59

Tgt Ion: 85 Resp: 50673

Ion Ratio Lower Upper

85 100

87 32.4 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

40000

30000

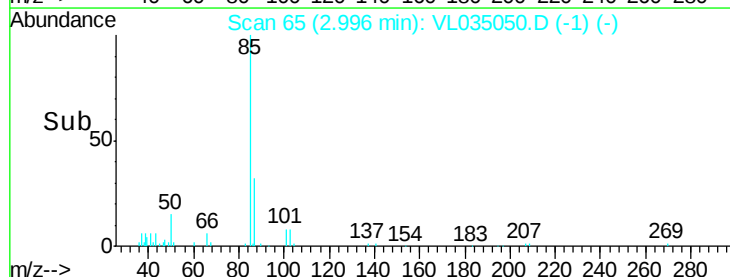
20000

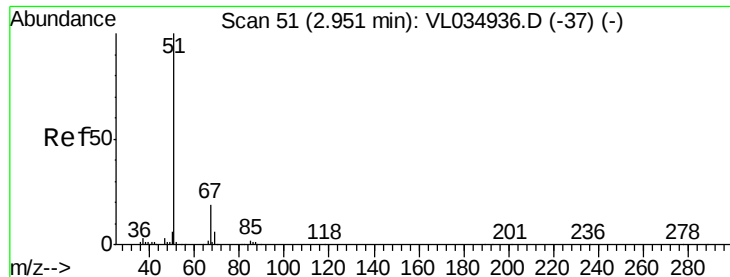
10000

0

2.96 2.98 3.00 3.02 3.04

Time-->





#3

Chlorodifluoromethane

Concen: 0.629 ppbv

RT: 2.94 min Scan# 47

Delta R.T. -0.01 min

Lab File: VL035050.D

Acq: 19 May 2020 18:59

Instrument :

MSVOA_L

ClientSampled :

FL-IA

Tot Ion: 51 Resp: 81191

Ion Ratio Lower Upper

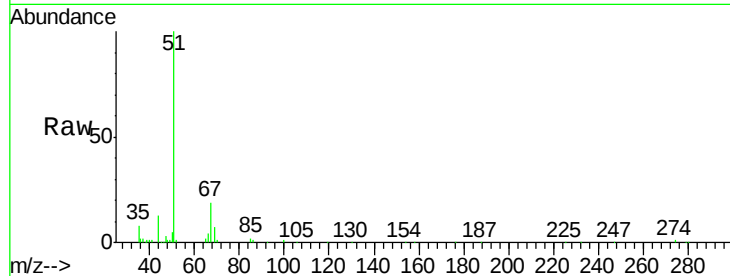
51 100

67 19.3 15.0 22.6

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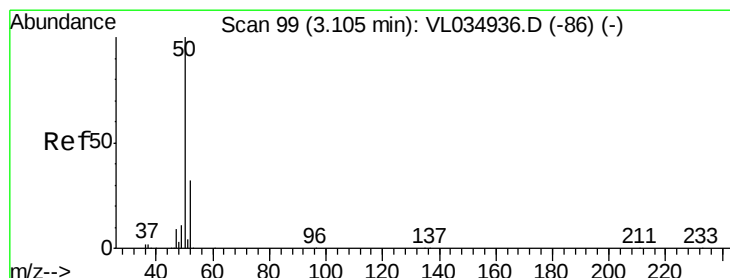
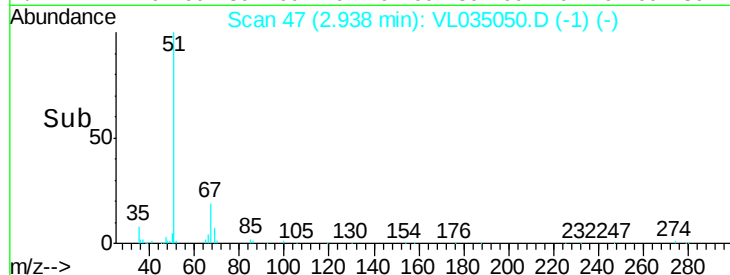
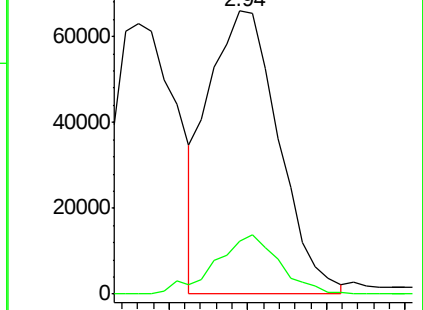
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.479 ppbv

RT: 3.09 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL035050.D

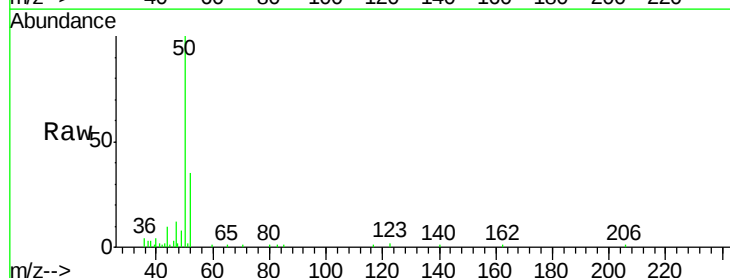
Acq: 19 May 2020 18:59

Tgt Ion: 50 Resp: 35449

Ion Ratio Lower Upper

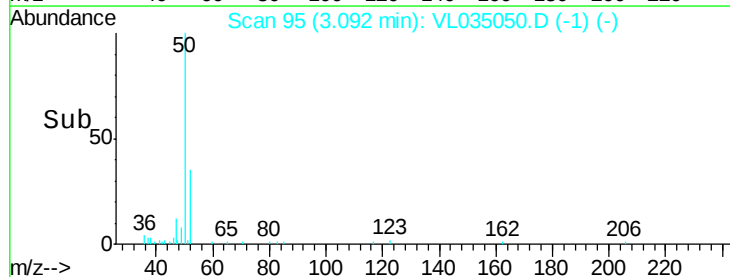
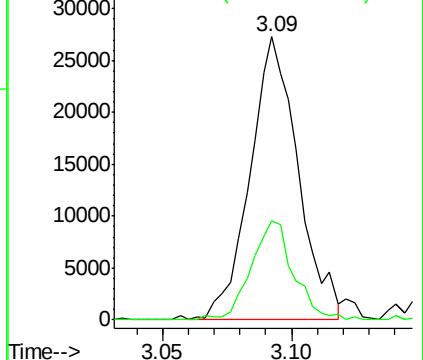
50 100

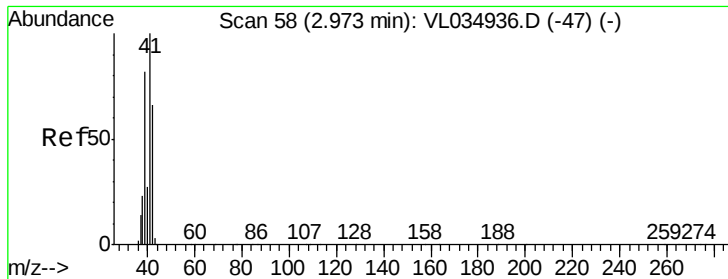
52 35.1 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.397 ppbv m

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL035050.D

Acq: 19 May 2020 18:59

Instrument :

MSVOA_L

ClientSampled :

FL-IA

Tot Ion: 41 Resp: 78266

Ion Ratio Lower Upper

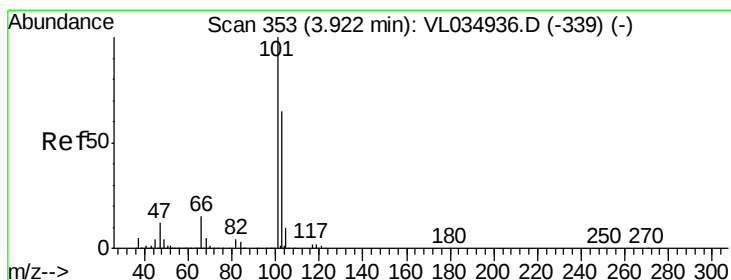
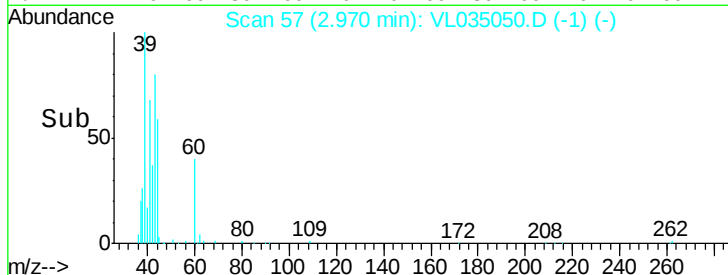
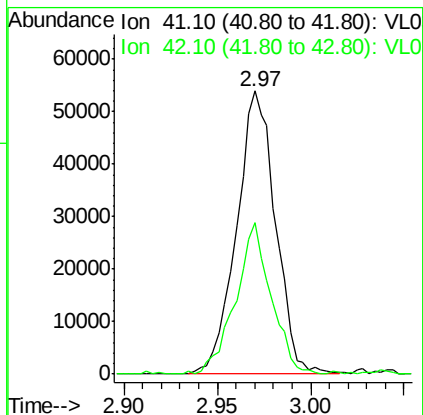
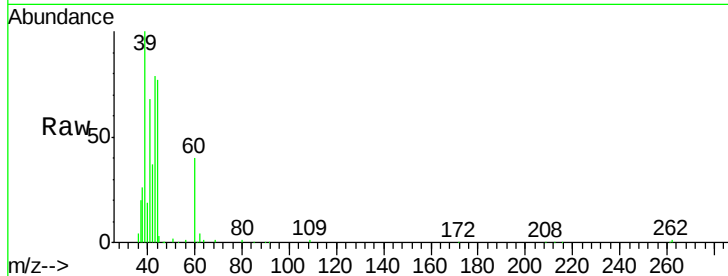
41 100

42 100.7 54.5 81.7#

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#11

Trichlorofluoromethane

Concen: 0.265 ppbv

RT: 3.92 min Scan# 351

Delta R.T. -0.01 min

Lab File: VL035050.D

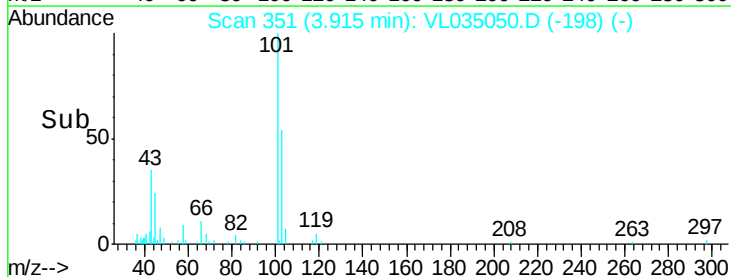
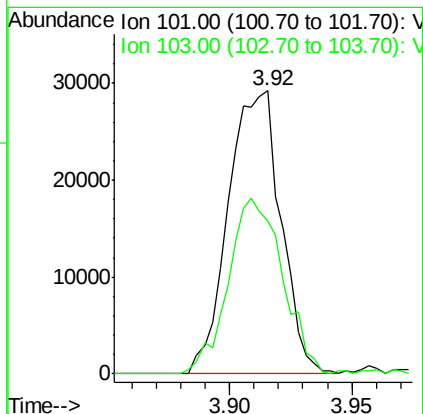
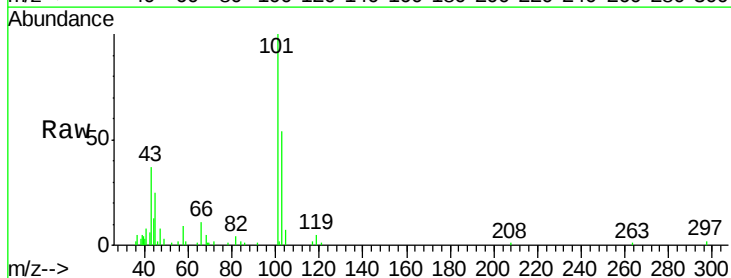
Acq: 19 May 2020 18:59

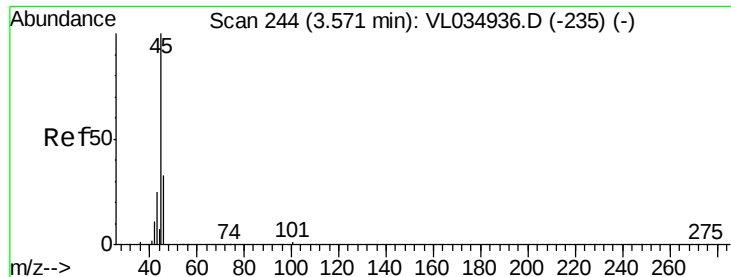
Tgt Ion: 101 Resp: 43783

Ion Ratio Lower Upper

101 100

103 52.2 51.9 77.9





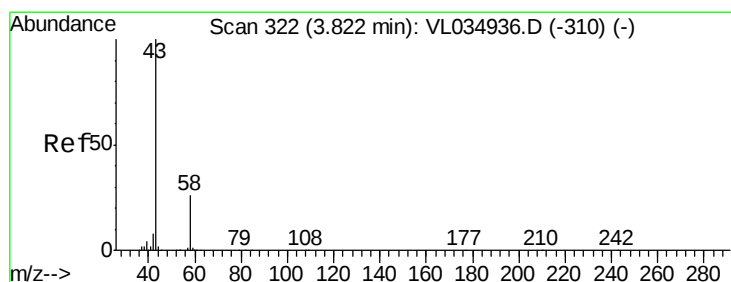
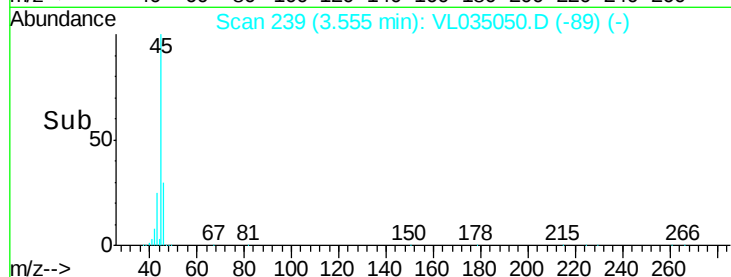
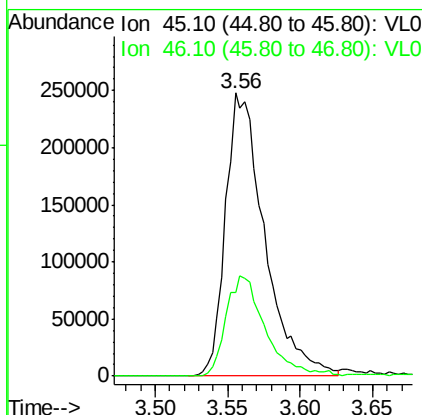
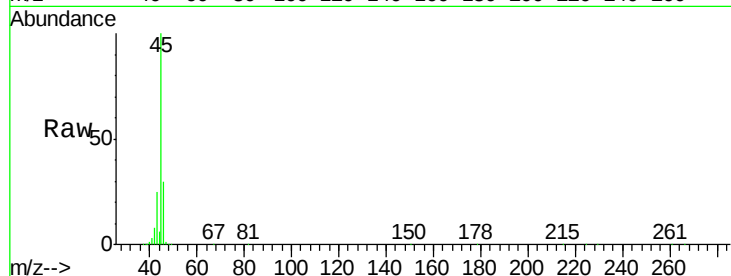
#13
Ethanol
Concen: 25.172 ppbv
RT: 3.56 min Scan# 239
Delta R.T. -0.02 min
Lab File: VL035050.D
Acq: 19 May 2020 18:59

Instrument :
MSVOA_L
ClientSampled :
FL-IA

Tot Ion: 45 Resp: 465447
Ion Ratio Lower Upper
45 100
46 35.8 14.3 57.3

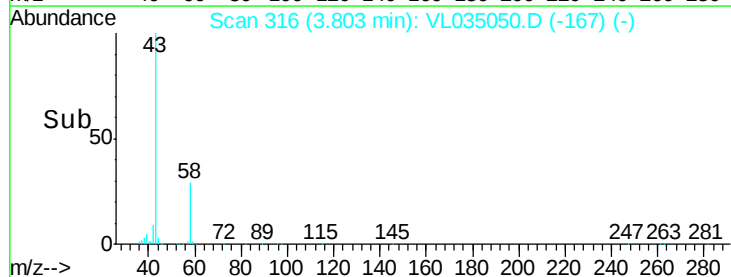
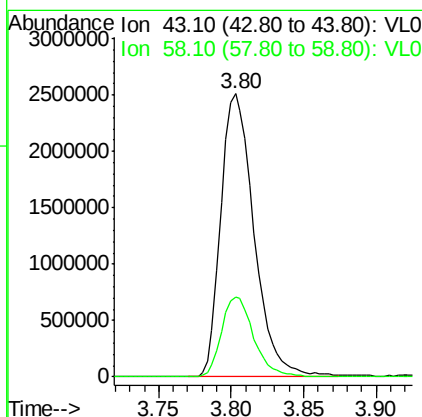
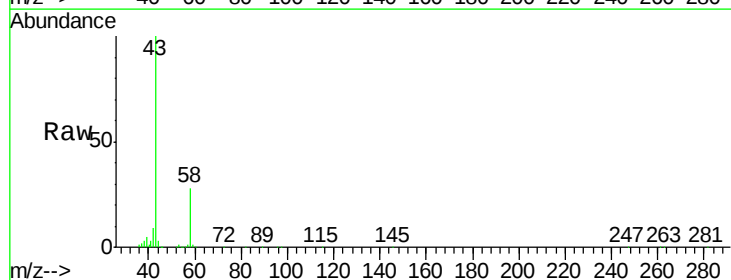
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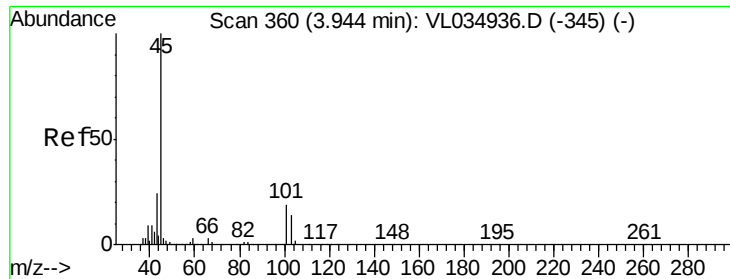
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#15
Acetone
Concen: 26.687 ppbv
RT: 3.80 min Scan# 316
Delta R.T. -0.02 min
Lab File: VL035050.D
Acq: 19 May 2020 18:59

Tgt Ion: 43 Resp: 3990480
Ion Ratio Lower Upper
43 100
58 27.5 21.7 32.5





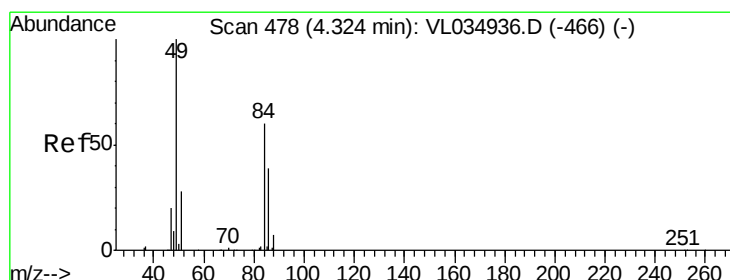
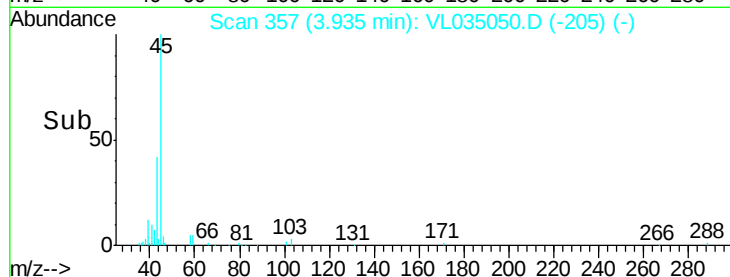
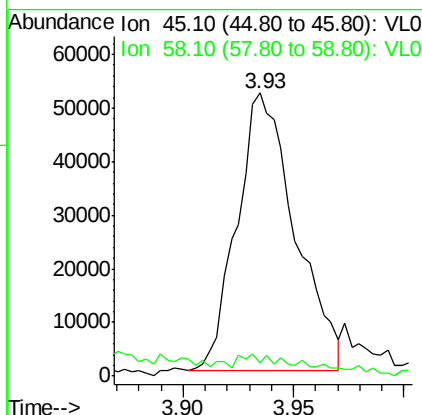
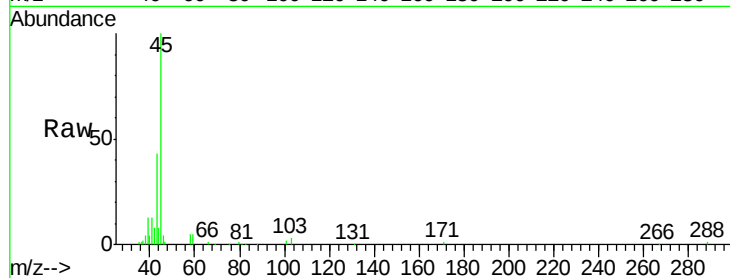
#19
Isopropyl Alcohol
Concen: 0.956 ppbv
RT: 3.93 min Scan# 357
Delta R.T. -0.01 min
Lab File: VL035050.D
Acq: 19 May 2020 18:59

Instrument :
MSVOA_L
ClientSampleId :
FL-IA

Tot Ion: 45 Resp: 95301
Ion Ratio Lower Upper
45 100
58 0.0 1.7 2.5#

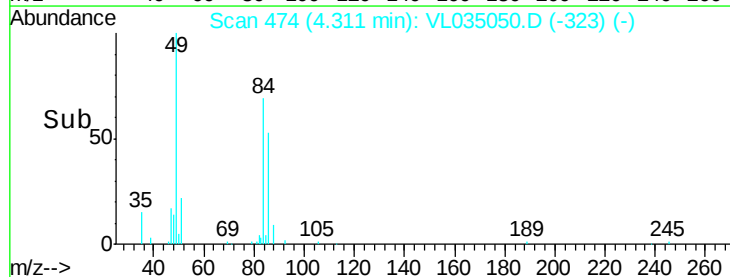
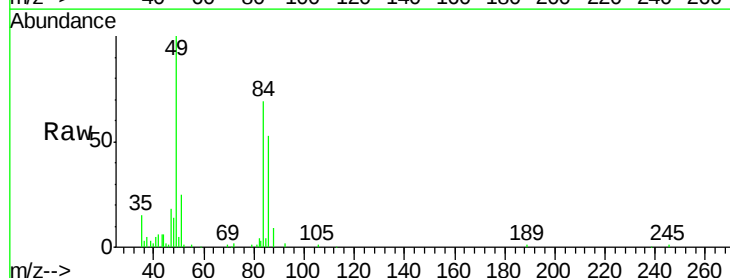
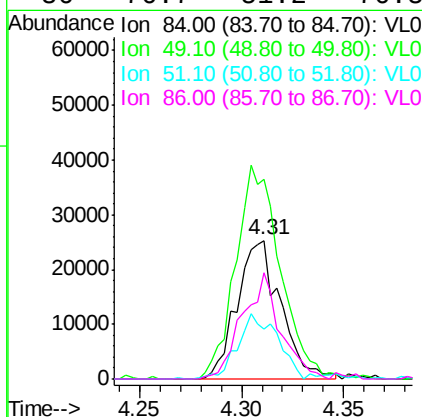
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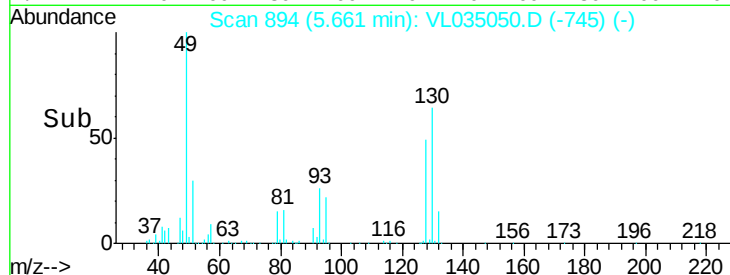
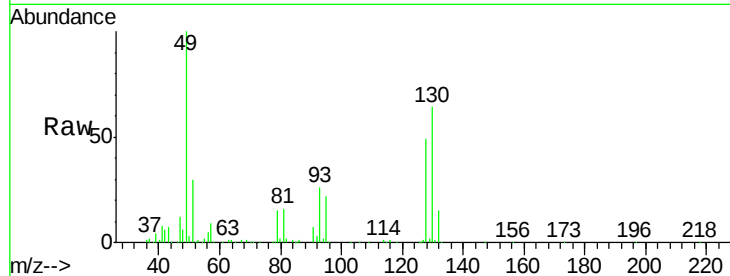
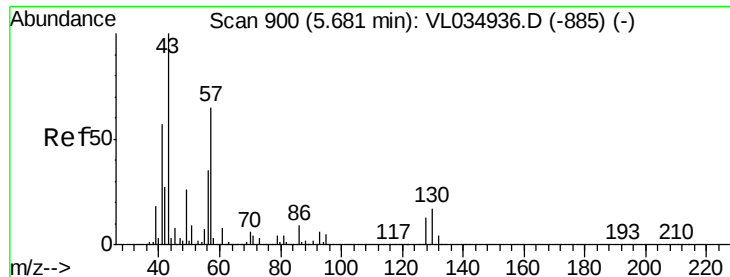
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#20
Methylene Chloride
Concen: 0.761 ppbv m
RT: 4.31 min Scan# 474
Delta R.T. -0.01 min
Lab File: VL035050.D
Acq: 19 May 2020 18:59

Tgt Ion: 84 Resp: 37690
Ion Ratio Lower Upper
84 100
49 143.9 132.5 198.7
51 36.0 38.4 57.6#
86 76.7 51.2 76.8





#26

Hexane

Concen: 0.274 ppbv m

RT: 5.66 min Scan# 894

Delta R.T. -0.02 min

Lab File: VL035050.D

Acq: 19 May 2020 18:59

Tot Ion: 57 Resp: 29807

Ion Ratio Lower Upper

57 100

41 109.1 72.7 109.1#

43 107.1 182.1 273.1#

56 72.6 42.2 63.2#

Instrument :

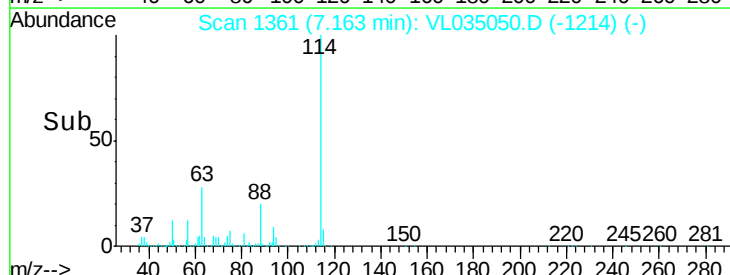
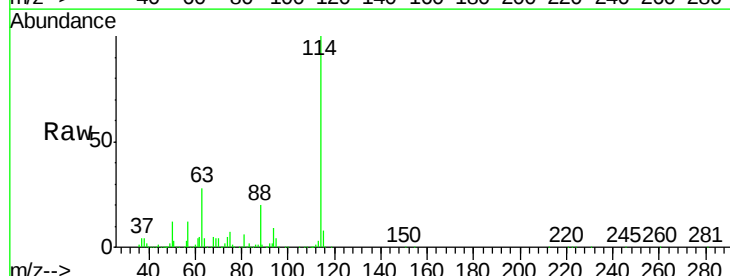
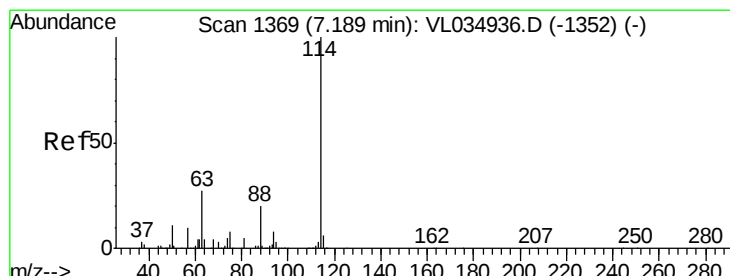
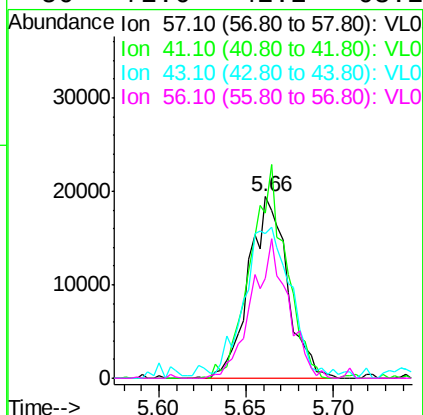
MSVOA_L

ClientSampleId :

FL-IA

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. -0.03 min

Lab File: VL035050.D

Acq: 19 May 2020 18:59

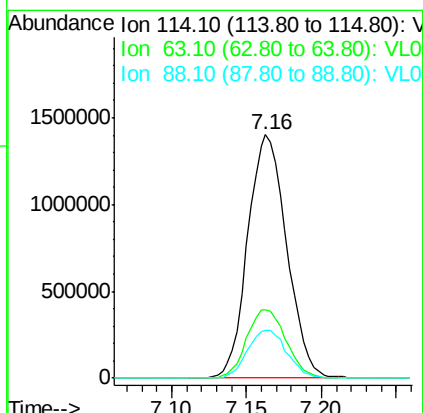
Tgt Ion:114 Resp: 2538436

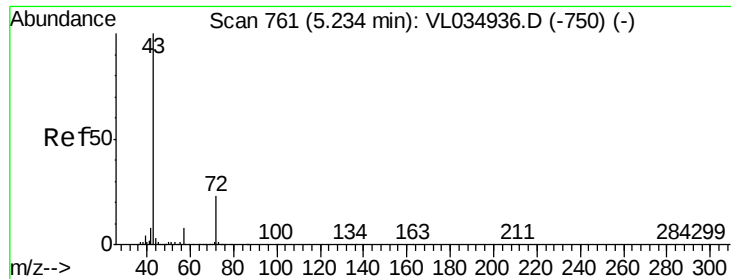
Ion Ratio Lower Upper

114 100

63 28.7 22.2 33.4

88 19.9 15.5 23.3





#34

2-Butanone

Concen: 0.193 ppbv m

RT: 5.22 min Scan# 758

Delta R.T. -0.01 min

Lab File: VL035050.D

Acq: 19 May 2020 18:59

Instrument :

MSVOA_L

ClientSampleId :

FL-IA

Tot Ion: 43 Resp: 30509

Ion Ratio Lower Upper

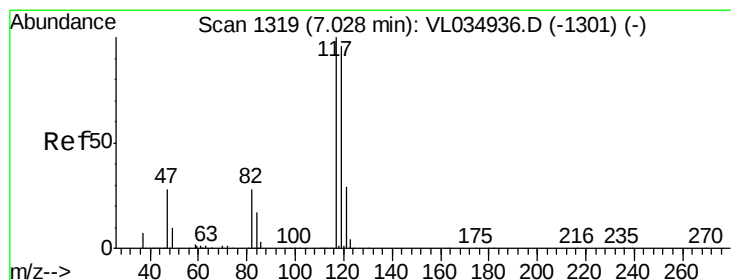
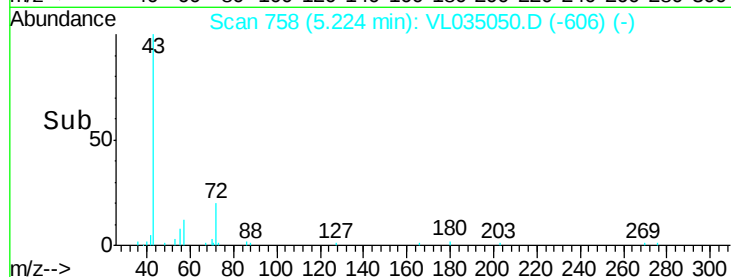
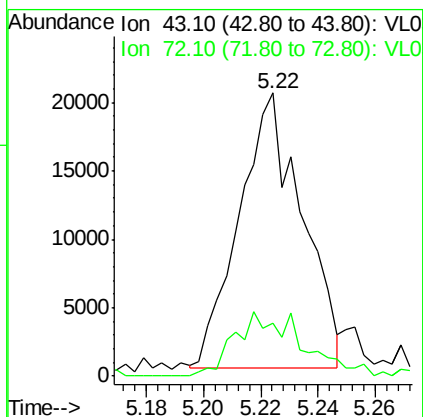
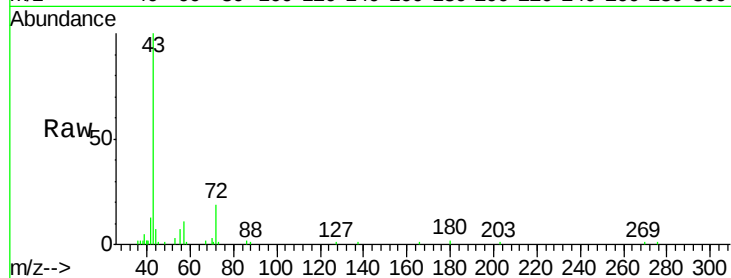
43 100

72 26.7 18.0 27.0

Manual Integrations
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5/20/2020 4:27:29 PM



#35

Carbon Tetrachloride

Concen: 0.064 ppbv m

RT: 7.01 min Scan# 1312

Delta R.T. -0.02 min

Lab File: VL035050.D

Acq: 19 May 2020 18:59

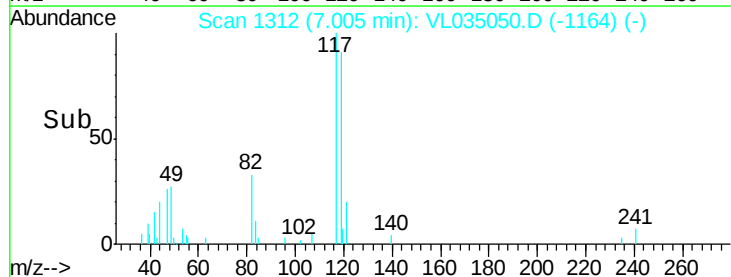
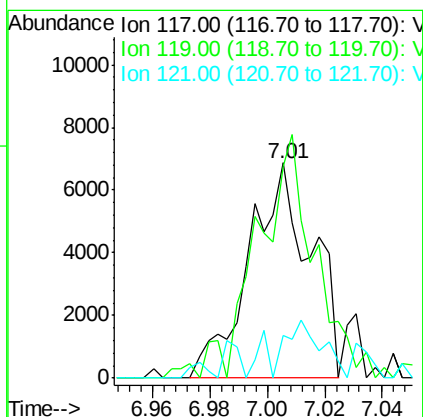
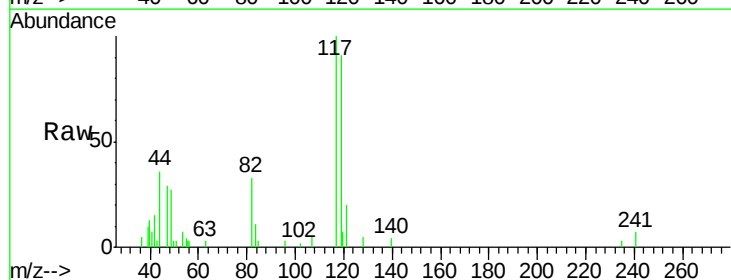
Tgt Ion: 117 Resp: 10270

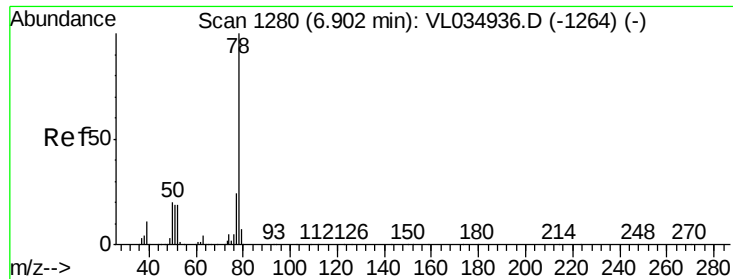
Ion Ratio Lower Upper

117 100

119 91.2 77.0 115.6

121 19.7 23.0 34.6#





#36

Benzene

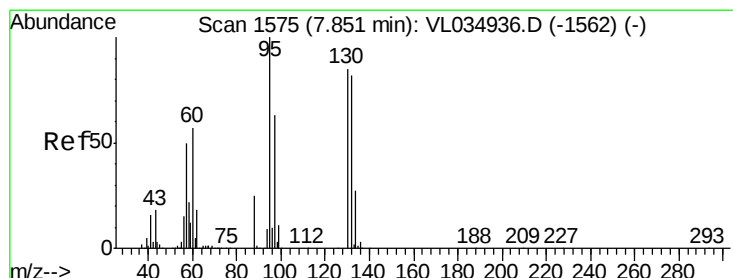
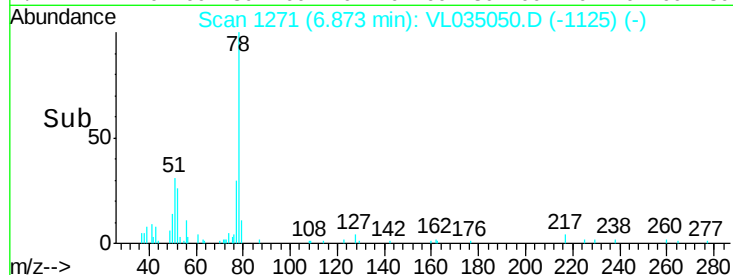
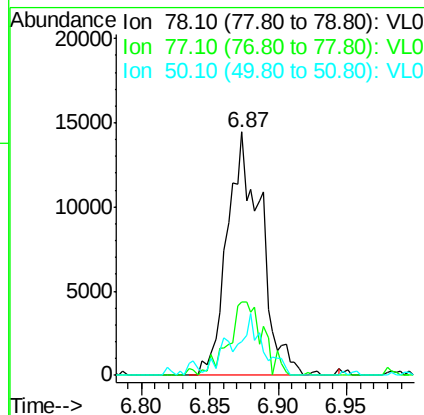
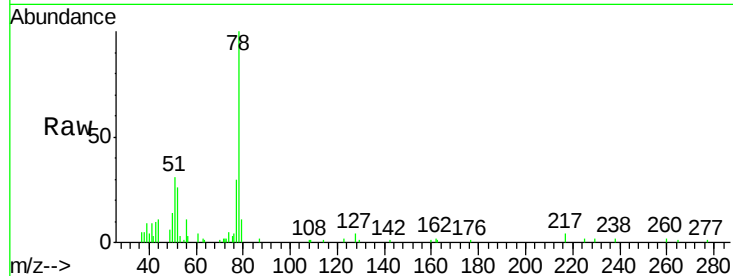
Concen: 0.119 ppbv m
RT: 6.87 min Scan# 1271
Delta R.T. -0.03 min
Lab File: VL035050.D
Acq: 19 May 2020 18:59

Instrument :
MSVOA_L
ClientSampleId :
FL-IA

Tot Ion	Ratio	Lower	Upper
78	100		
77	29.9	19.0	28.6#
50	14.0	15.8	23.8#

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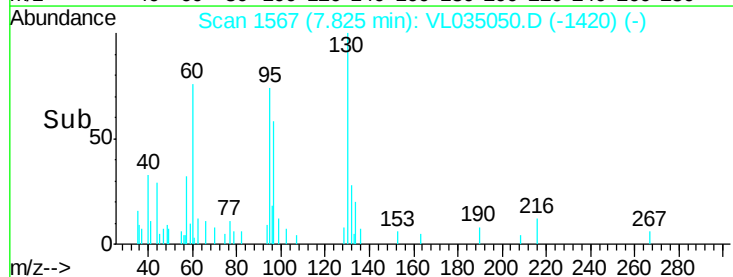
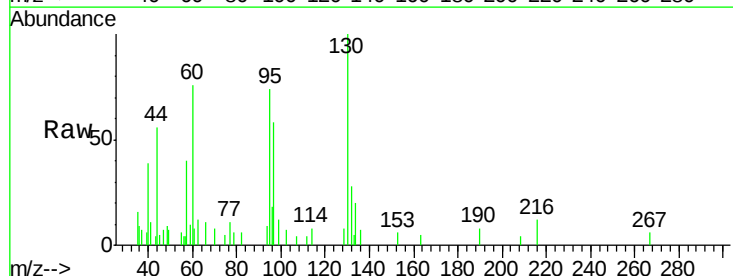
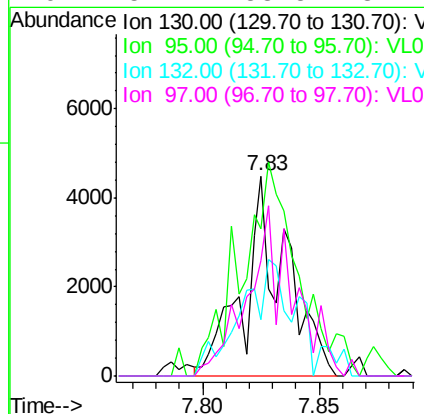


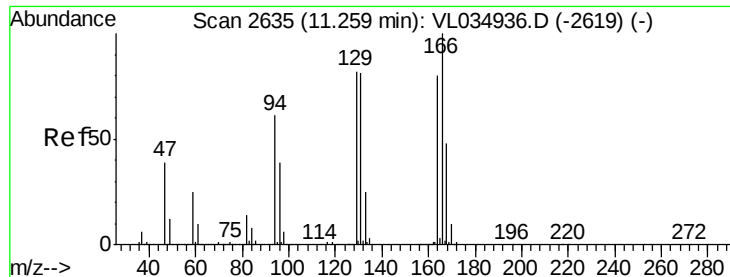
#38

Trichloroethene

Concen: 0.069 ppbv m
RT: 7.83 min Scan# 1567
Delta R.T. -0.03 min
Lab File: VL035050.D
Acq: 19 May 2020 18:59

Tgt Ion	Ratio	Lower	Upper
130	100		
95	73.7	93.4	140.0#
132	28.3	76.4	114.6#
97	57.7	58.5	87.7#





#52

Tetrachloroethene

Concen: 3.273 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. -0.03 min

Lab File: VL035050.D

Acq: 19 May 2020 18:59

Instrument :

MSVOA_L

ClientSampled :

FL-IA

Tot Ion:164 Resp: 243600

Ion Ratio Lower Upper

164 100

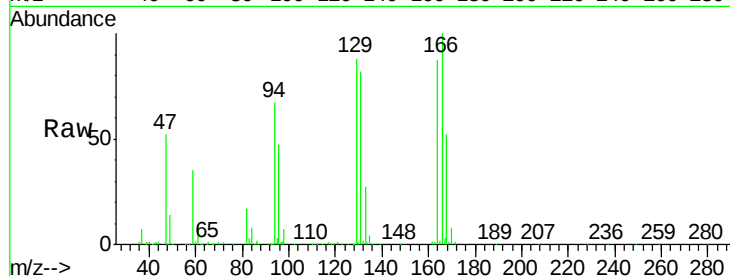
166 114.3 100.7 151.1

129 100.7 83.0 124.4

131 94.5 81.0 121.4

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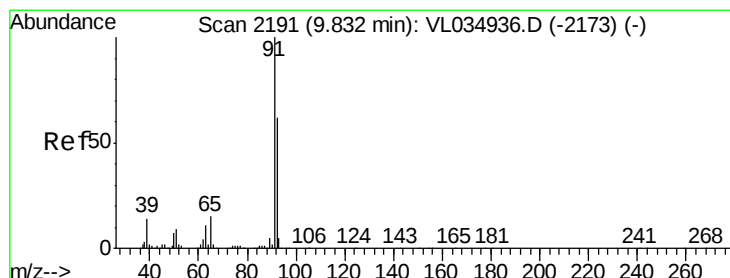
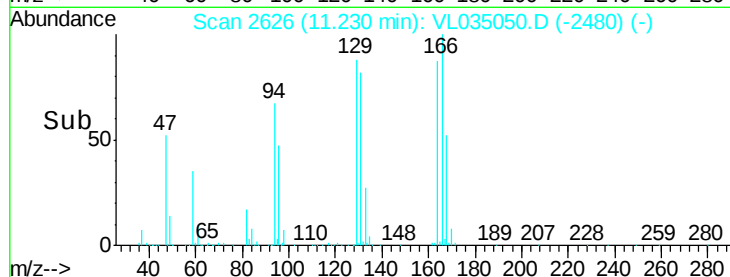
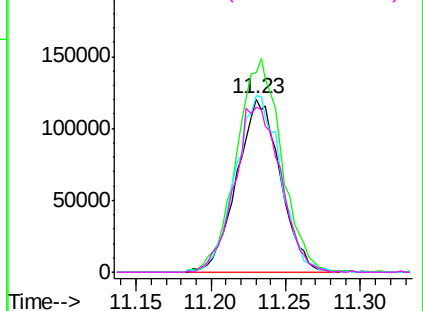


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.243 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.03 min

Lab File: VL035050.D

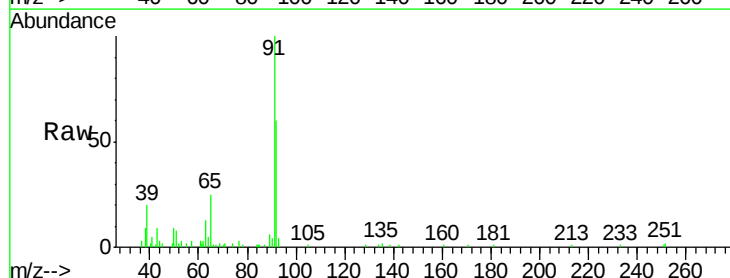
Acq: 19 May 2020 18:59

Tgt Ion: 91 Resp: 53821

Ion Ratio Lower Upper

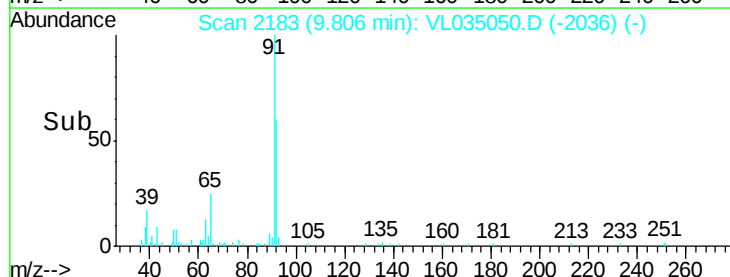
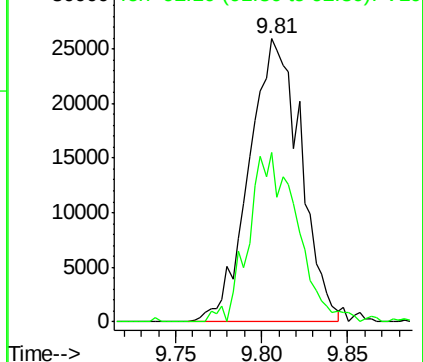
91 100

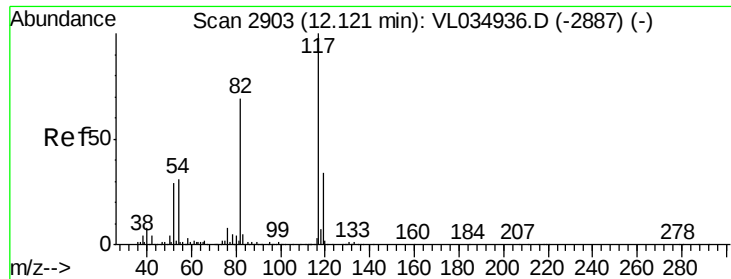
92 57.5 48.6 73.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





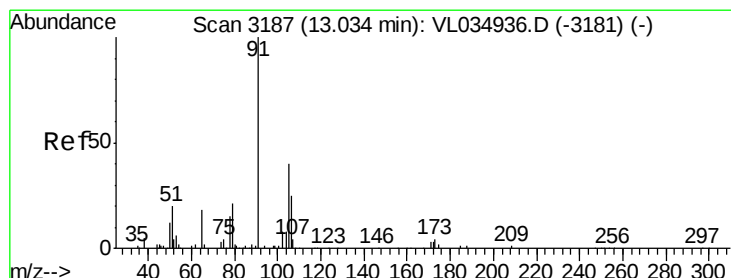
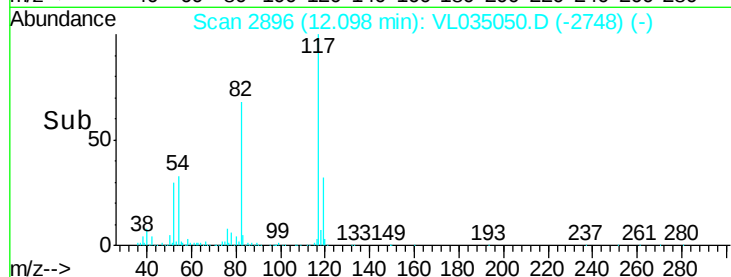
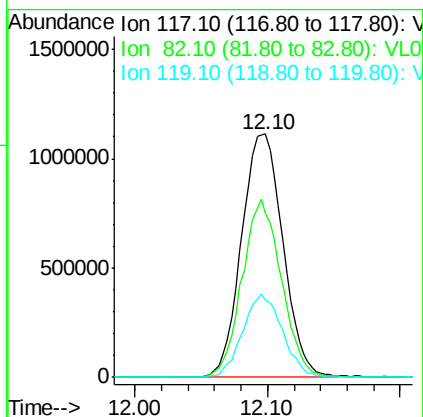
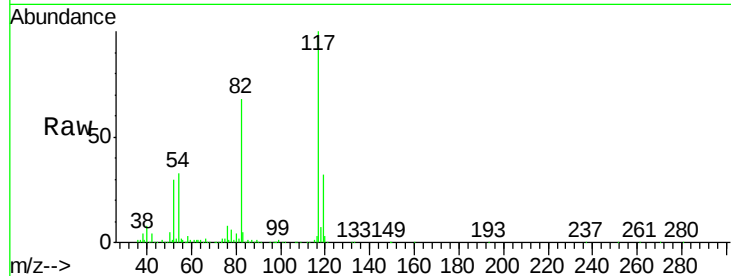
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2896
Delta R.T. -0.02 min
Lab File: VL035050.D
Acq: 19 May 2020 18:59

Instrument :
MSVOA_L
ClientSampleId :
FL-IA

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.7	53.1	79.7
119	33.1	26.7	40.1

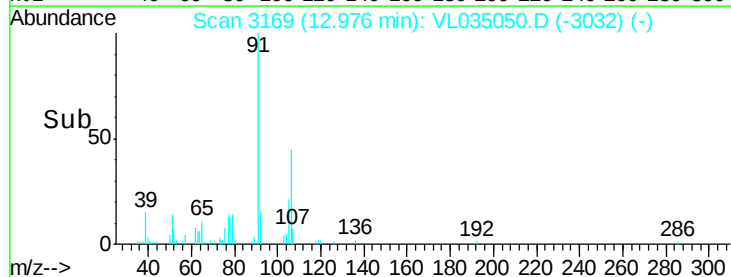
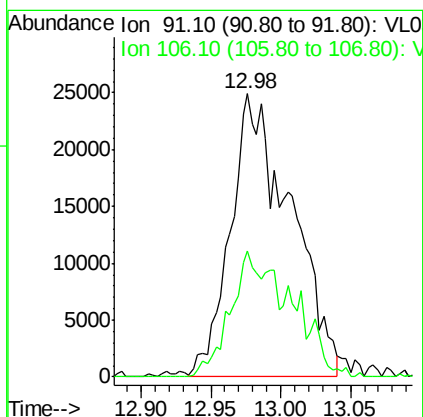
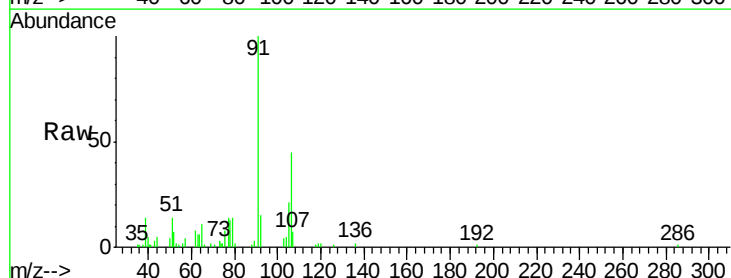
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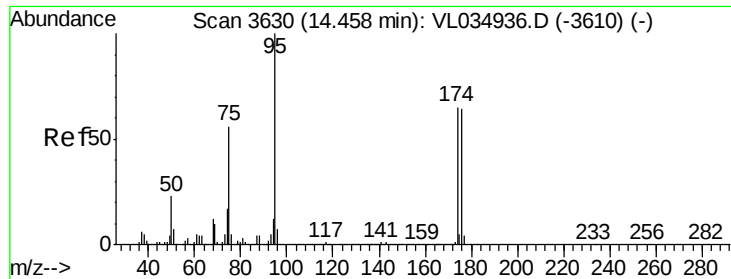
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#59
m/p-Xylene
Concen: 0.285 ppbv m
RT: 12.98 min Scan# 3169
Delta R.T. -0.06 min
Lab File: VL035050.D
Acq: 19 May 2020 18:59

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	66.0	99.0#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.929 ppbv
 RT: 14.43 min Scan# 3622
 Delta R.T. -0.03 min
 Lab File: VL035050.D
 Acq: 19 May 2020 18:59

Instrument :
 MSVOA_L
 ClientSampleId :
 FL-IA

Tot Ion	Ratio	Lower	Upper
95	100		
174	63.5	51.5	77.3
175	4.8	3.8	5.8

Manual Integrations
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