

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035059.D
 Acq On : 20 May 2020 00:53
 Operator : SY/AP
 Sample : L2683-07
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FL-SS

Manual Integrations
 APPROVED

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 5/20/2020 4:27:59 PM

Quant Time: May 20 09:42:29 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	1161937	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2636050	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2533434	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2213066	10.79	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.90%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.00	85	48700	0.295	ppbv	96
3) Chlorodifluoromethane	2.93	51	78692m	0.593	ppbv	
4) Chloromethane	3.09	50	42585	0.560	ppbv	98
9) Propene	2.97	41	70035	1.217	ppbv #	71
11) Trichlorofluoromethane	3.91	101	43447	0.256	ppbv #	79
13) Ethanol	3.56	45	669418	35.241	ppbv	99
15) Acetone	3.80	43	5683976	37.002	ppbv	94
17) tert-Butyl alcohol	4.27	59	26241m	0.192	ppbv	
19) Isopropyl Alcohol	3.93	45	141269	1.379	ppbv #	94
20) Methylene Chloride	4.31	84	26484	0.521	ppbv #	68
31) cis-1,2-Dichloroethene	5.52	61	70162	0.643	ppbv #	88
34) 2-Butanone	5.22	43	403001	2.460	ppbv	99
35) Carbon Tetrachloride	7.01	117	11887m	0.071	ppbv	
36) Benzene	6.88	78	25250m	0.116	ppbv	
38) Trichloroethene	7.83	130	67139	0.797	ppbv	92
52) Tetrachloroethene	11.23	164	3046863	39.427	ppbv	97
53) Toluene	9.81	91	67598m	0.293	ppbv	
58) Ethyl Benzene	12.72	91	31277m	0.100	ppbv	
59) m/p-Xylene	12.98	91	127672m	0.463	ppbv	
60) o-Xylene	13.72	91	40595m	0.149	ppbv	

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

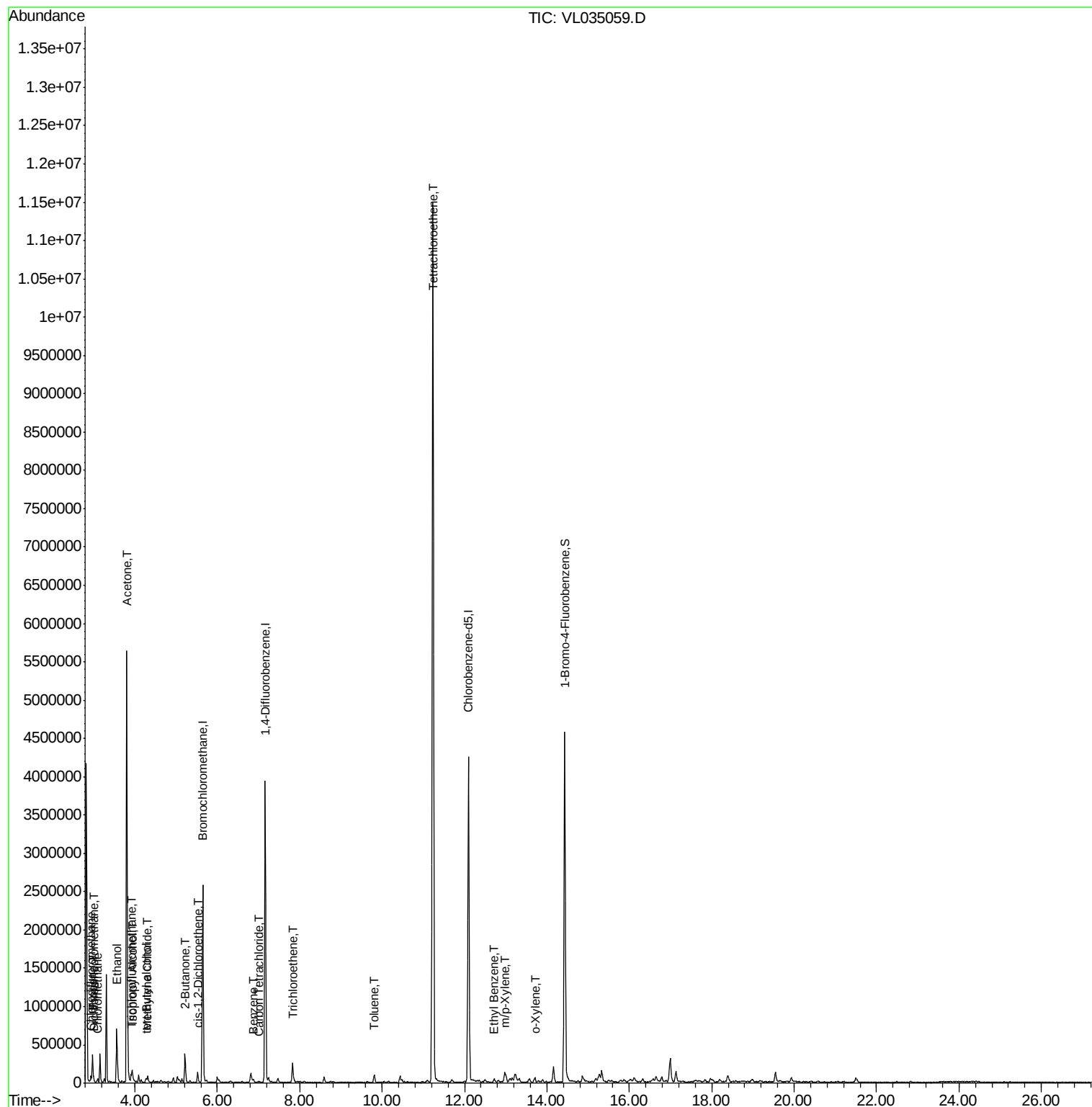
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051920\
Data File : VL035059.D
Acq On : 20 May 2020 00:53
Operator : SY/AP
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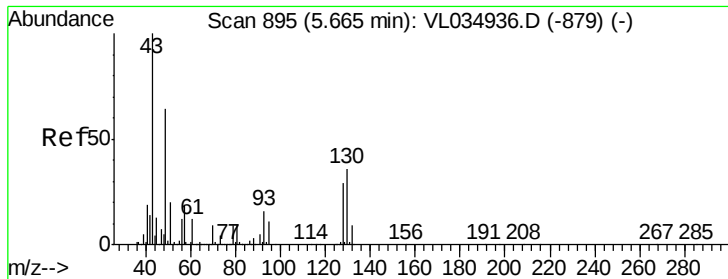
Instrument :
MSVOA_L
ClientSampleId :
FL-SS

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Quant Time: May 20 09:42:29 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: VL035059.D

Acq: 20 May 2020 00:53

Instrument :

MSVOA_L

ClientSampled :

FL-SS

Tot Ion: 49 Resp: 1161937

Ion Ratio Lower Upper

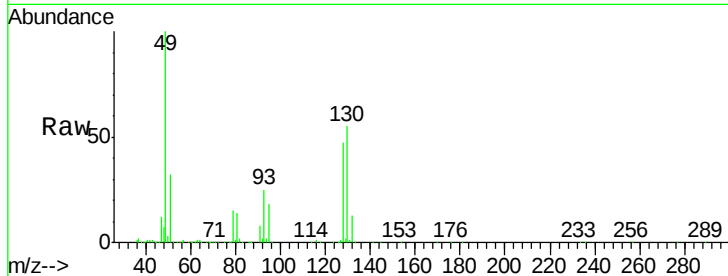
49 100

128 45.5 22.1 66.5

130 57.3 29.1 87.3

Manual Integrations
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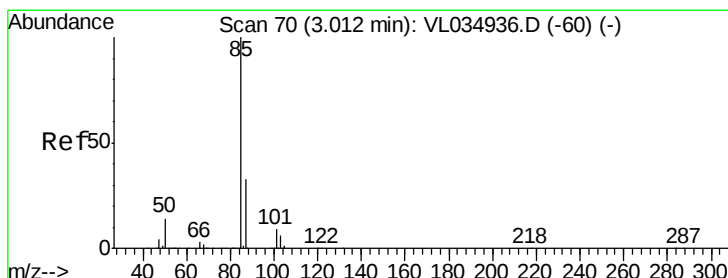
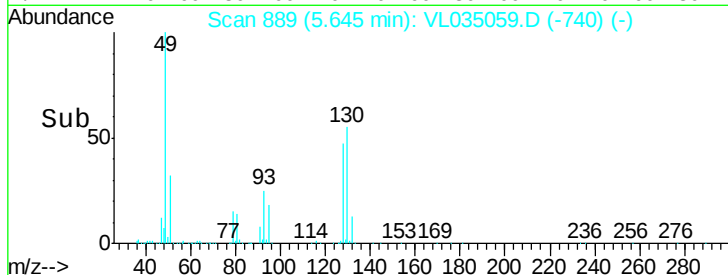
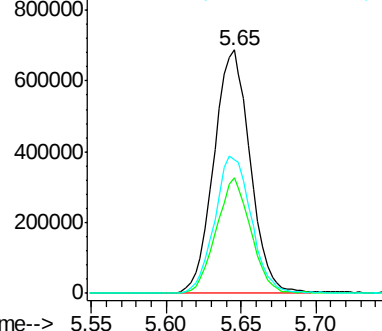
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.295 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035059.D

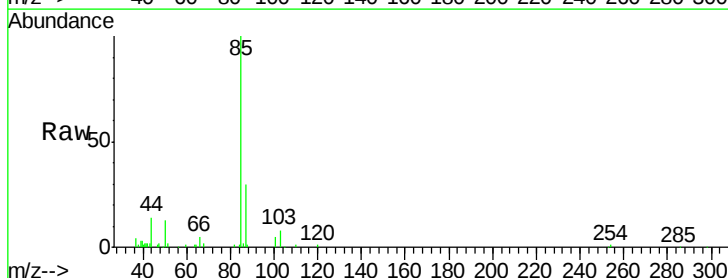
Acq: 20 May 2020 00:53

Tgt Ion: 85 Resp: 48700

Ion Ratio Lower Upper

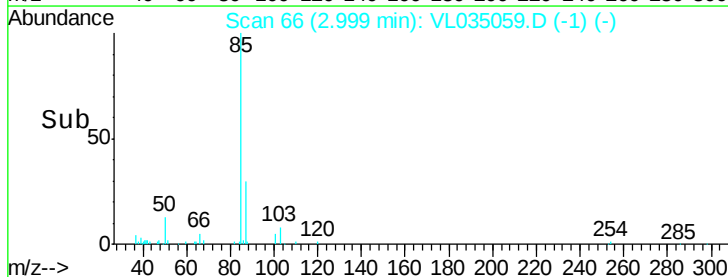
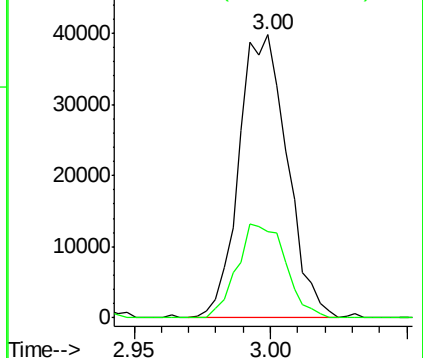
85 100

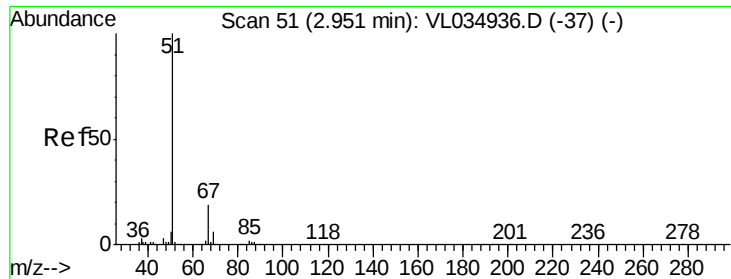
87 30.4 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.593 ppbv

RT: 2.93 min Scan# 46

Delta R.T. -0.02 min

Lab File: VL035059.D

Acq: 20 May 2020 00:53

Instrument :

MSVOA_L

ClientSampled :

FL-SS

Tot Ion: 51 Resp: 78692

Ion Ratio Lower Upper

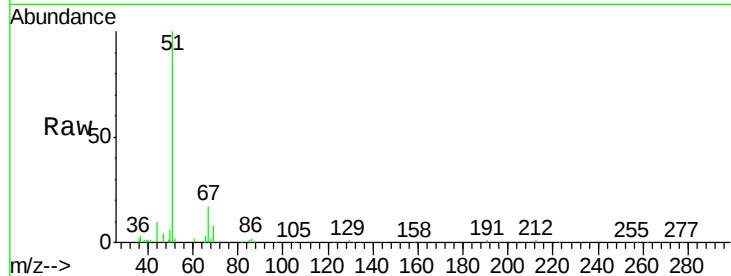
51 100

67 19.2 15.0 22.6

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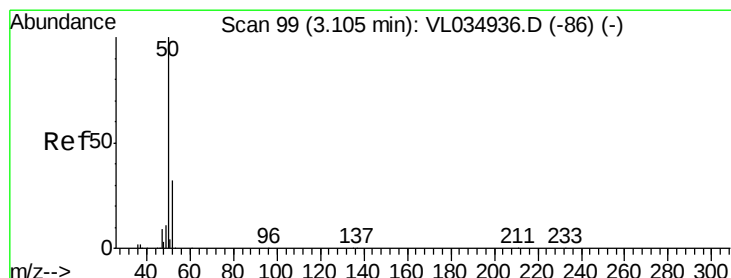
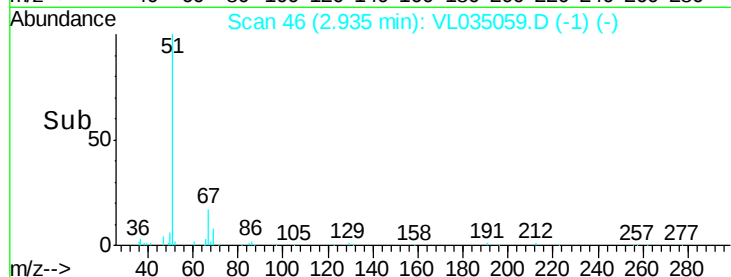
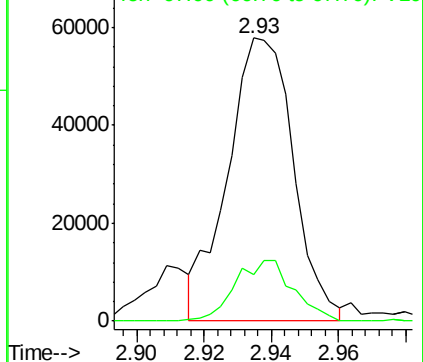
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.560 ppbv

RT: 3.09 min Scan# 94

Delta R.T. -0.02 min

Lab File: VL035059.D

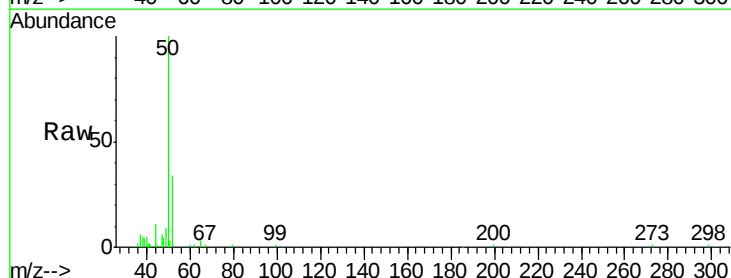
Acq: 20 May 2020 00:53

Tgt Ion: 50 Resp: 42585

Ion Ratio Lower Upper

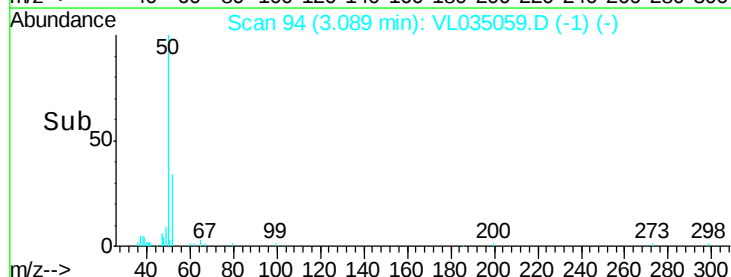
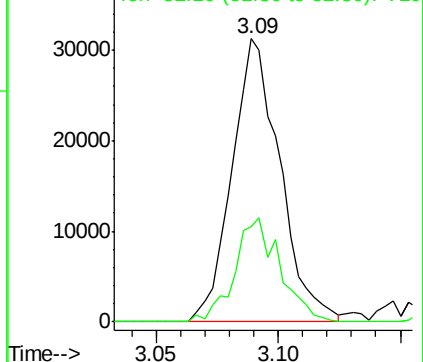
50 100

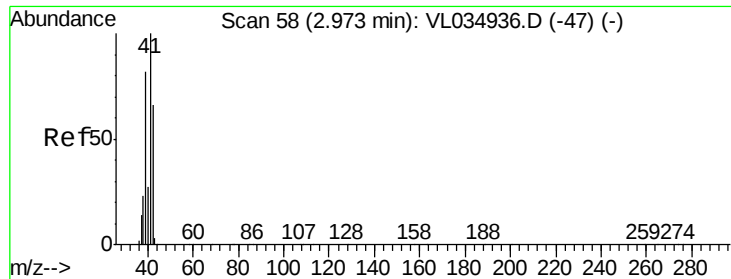
52 32.7 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.217 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL035059.D

Acq: 20 May 2020 00:53

Instrument :

MSVOA_L

ClientSampled :

FL-SS

Tot Ion: 41 Resp: 70035

Ion Ratio Lower Upper

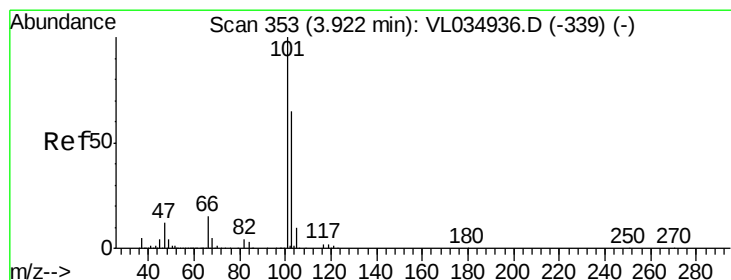
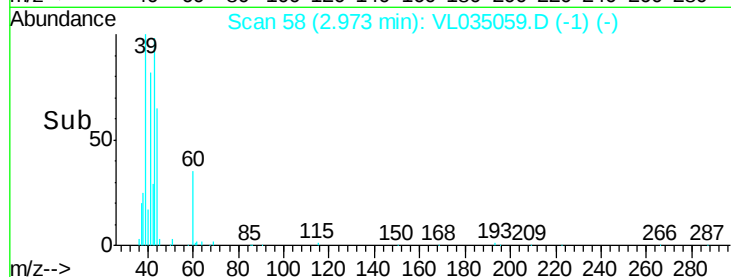
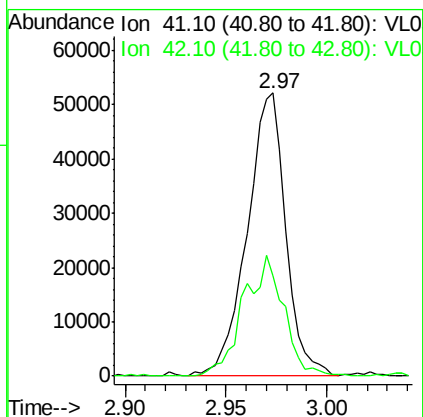
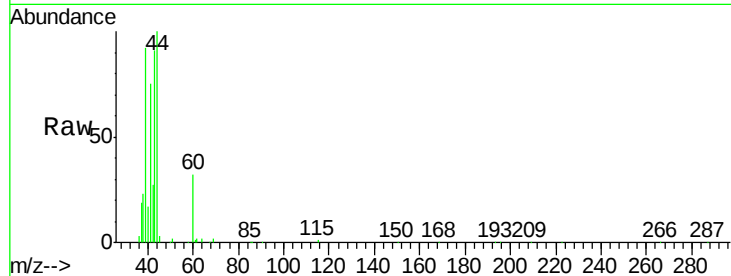
41 100

42 44.8 54.5 81.7#

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#11

Trichlorofluoromethane

Concen: 0.256 ppbv

RT: 3.91 min Scan# 348

Delta R.T. -0.02 min

Lab File: VL035059.D

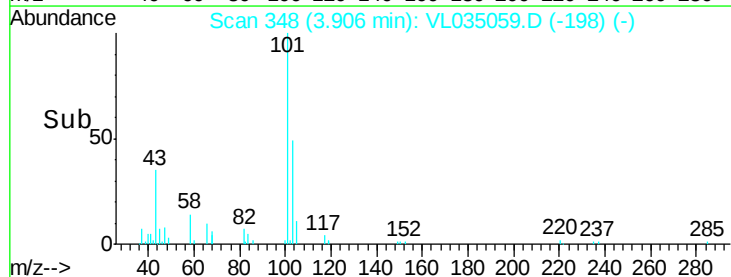
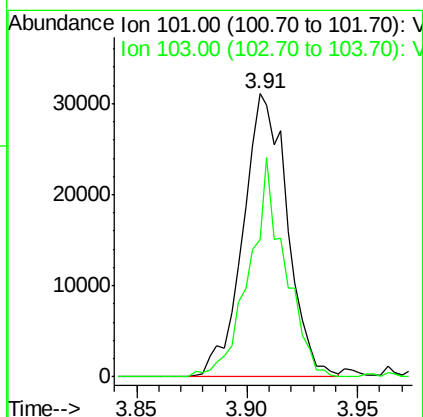
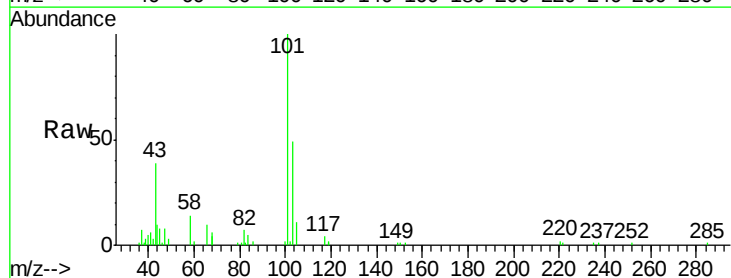
Acq: 20 May 2020 00:53

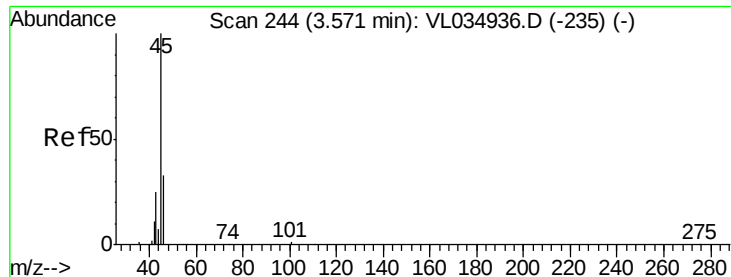
Tgt Ion: 101 Resp: 43447

Ion Ratio Lower Upper

101 100

103 48.5 51.9 77.9#





#13

Ethanol

Concen: 35.241 ppbv

RT: 3.56 min Scan# 240

Delta R.T. -0.01 min

Lab File: VL035059.D

Acq: 20 May 2020 00:53

Instrument :

MSVOA_L

ClientSampleId :

FL-SS

Tot Ion: 45 Resp: 669418

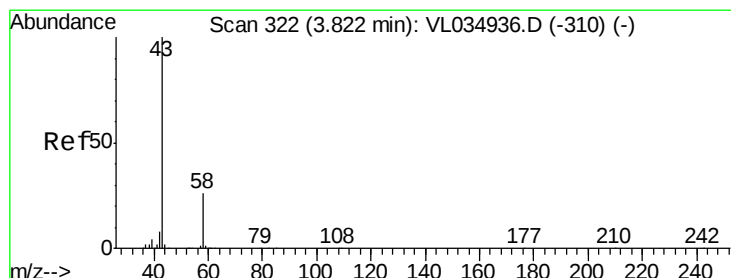
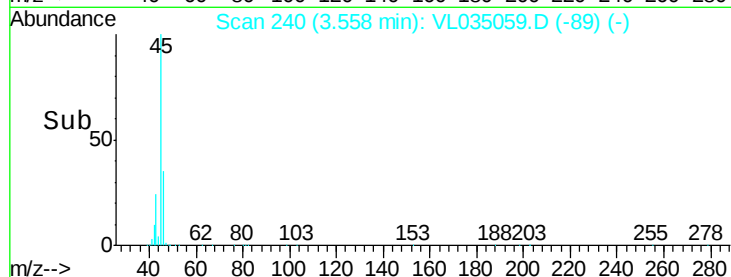
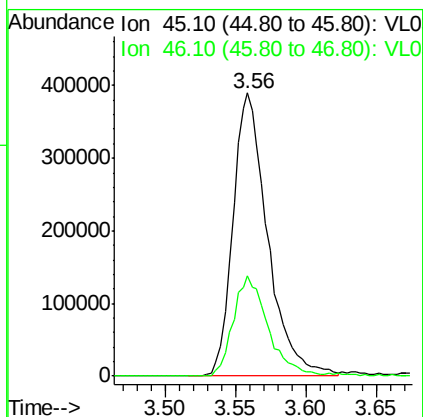
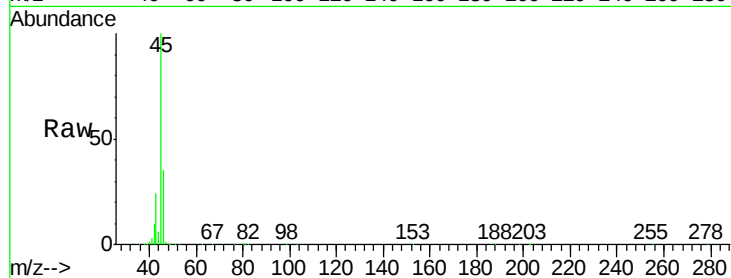
Ion Ratio Lower Upper

45 100

46 36.4 14.3 57.3

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#15

Acetone

Concen: 37.002 ppbv

RT: 3.80 min Scan# 315

Delta R.T. -0.02 min

Lab File: VL035059.D

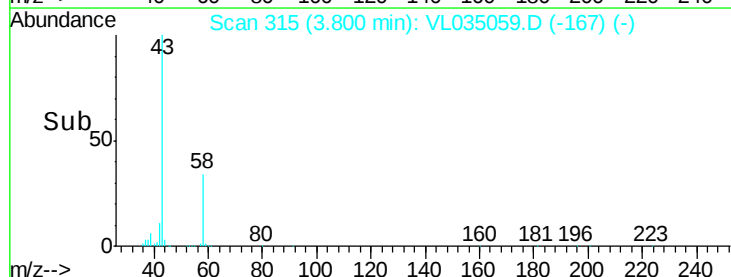
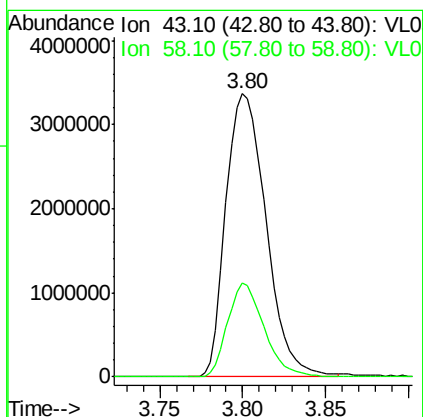
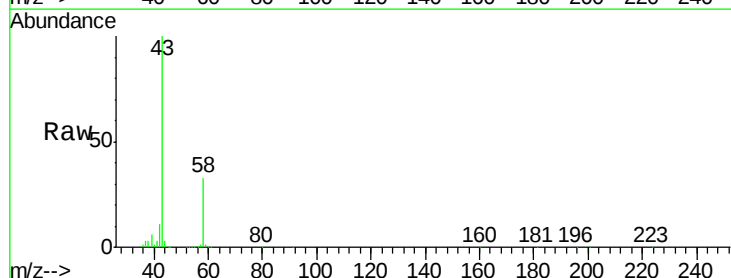
Acq: 20 May 2020 00:53

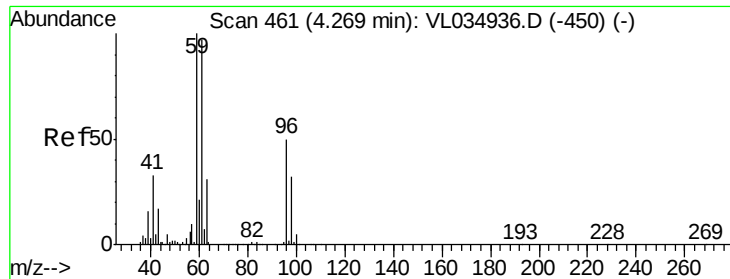
Tgt Ion: 43 Resp: 5683976

Ion Ratio Lower Upper

43 100

58 30.3 21.7 32.5





#17

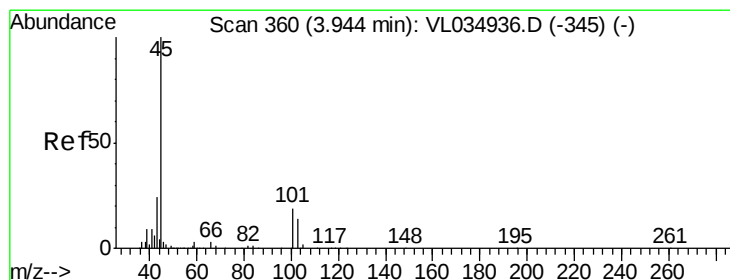
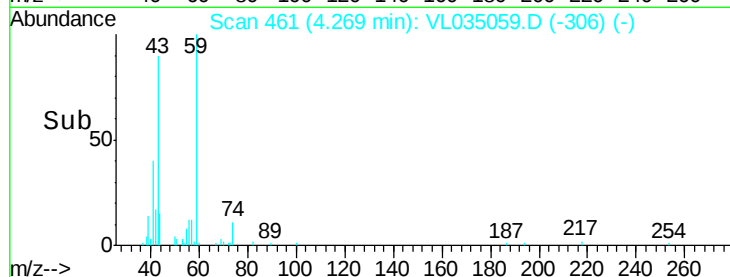
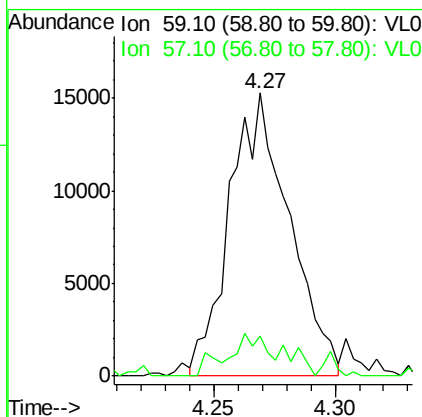
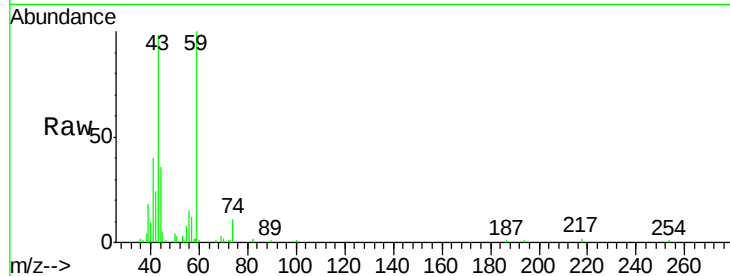
tert-Butyl alcohol
Concen: 0.192 ppbv
RT: 4.27 min Scan# 461
Delta R.T. -0.00 min
Lab File: VL035059.D
Acq: 20 May 2020 00:53

Instrument :
MSVOA_L
ClientSampled :
FL-SS

Tot Ion: 59 Resp: 26241
Ion Ratio Lower Upper
59 100
57 15.2 8.7 13.1#

Manual Integrations
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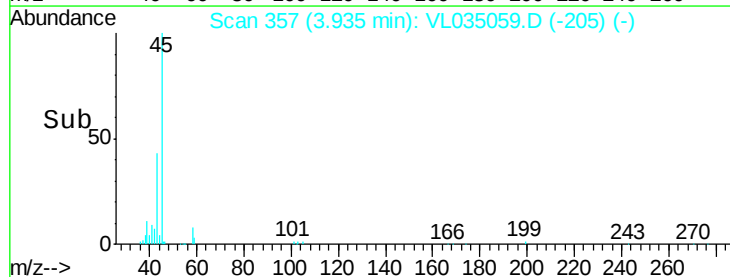
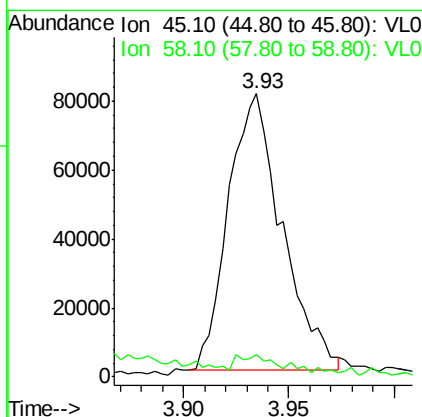
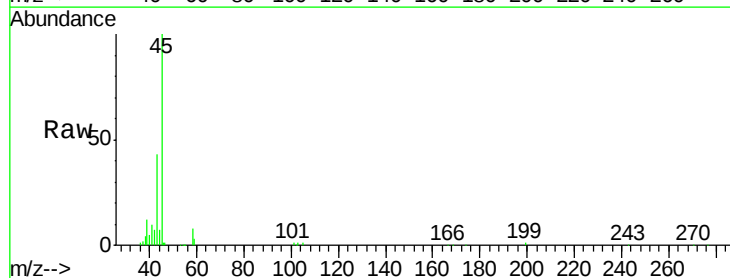
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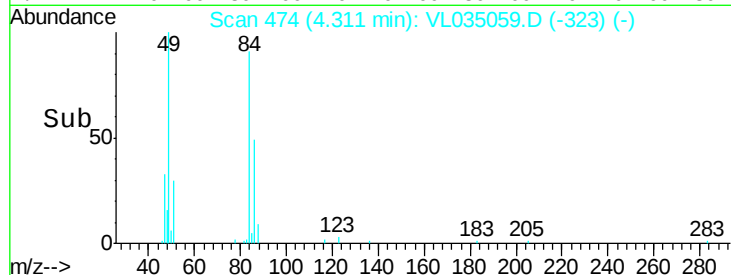
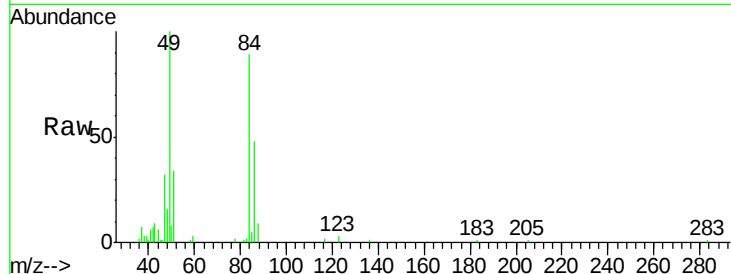
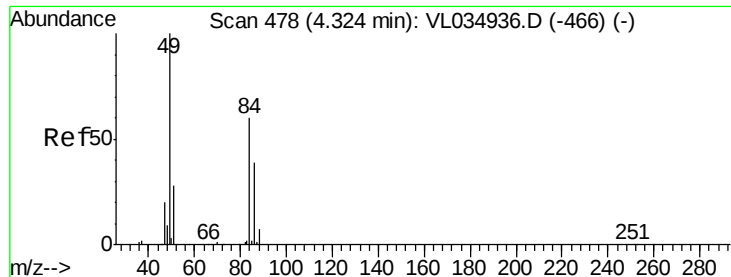


#19

Isopropyl Alcohol
Concen: 1.379 ppbv
RT: 3.93 min Scan# 357
Delta R.T. -0.01 min
Lab File: VL035059.D
Acq: 20 May 2020 00:53

Tgt Ion: 45 Resp: 141269
Ion Ratio Lower Upper
45 100
58 0.0 1.7 2.5#





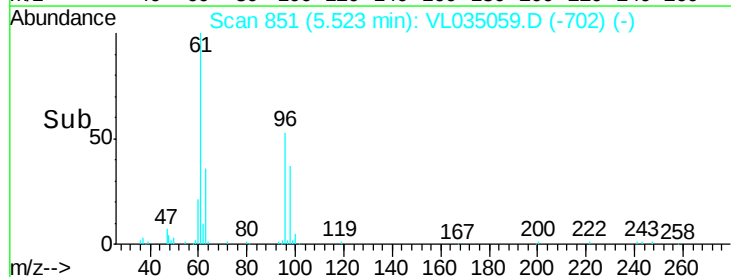
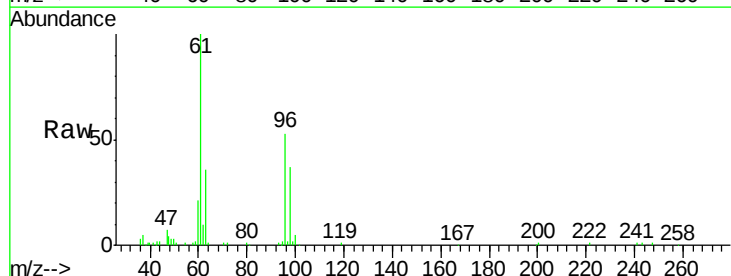
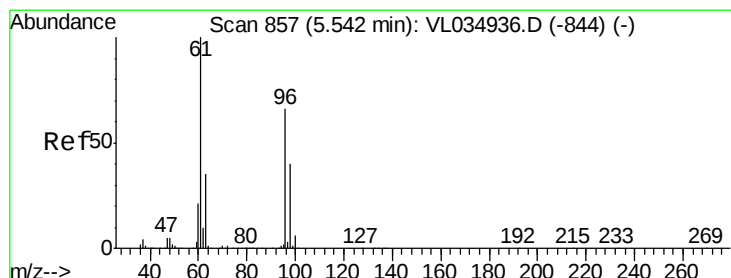
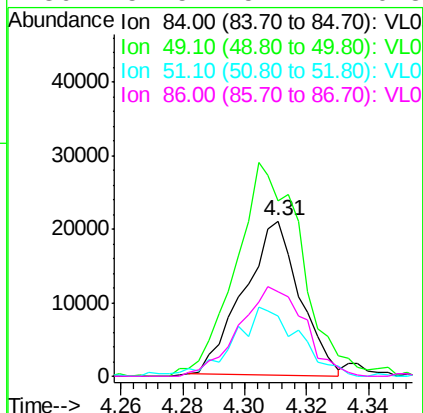
#20
Methvlene Chloride
Concen: 0.521 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.01 min
Lab File: VL035059.D
Acq: 20 May 2020 00:53

Tot Ion:	84	Resp:	26484
Ion	Ratio	Lower	Upper
84	100		
49	109.4	132.5	198.7#
51	34.3	38.4	57.6#
86	52.5	51.2	76.8

Instrument :
MSVOA_L
ClientSampleId :
FL-SS

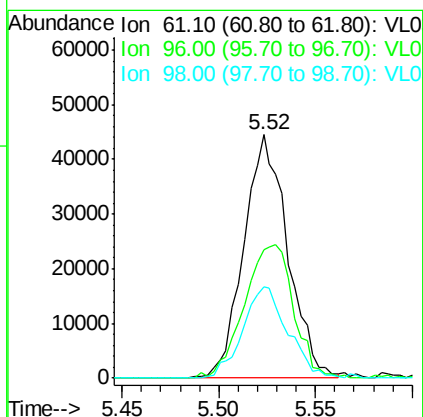
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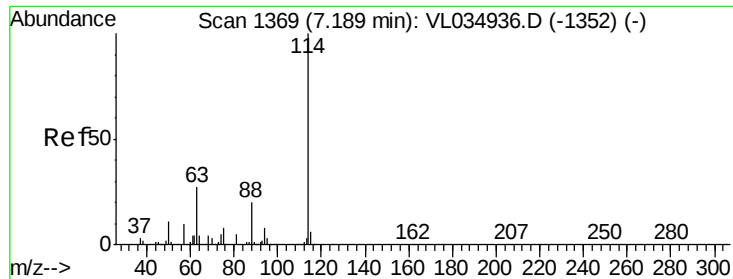
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#31
cis-1,2-Dichloroethene
Concen: 0.643 ppbv
RT: 5.52 min Scan# 851
Delta R.T. -0.02 min
Lab File: VL035059.D
Acq: 20 May 2020 00:53

Tgt Ion:	61	Resp:	70162
Ion	Ratio	Lower	Upper
61	100		
96	52.7	53.0	79.6#
98	37.3	32.2	48.2





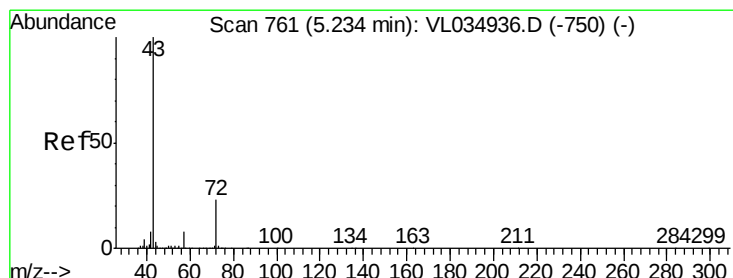
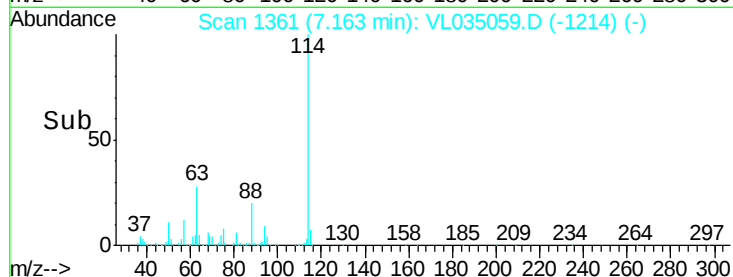
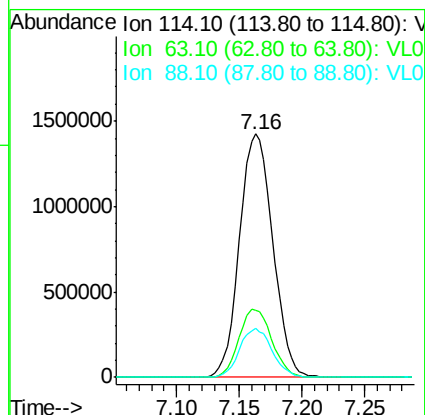
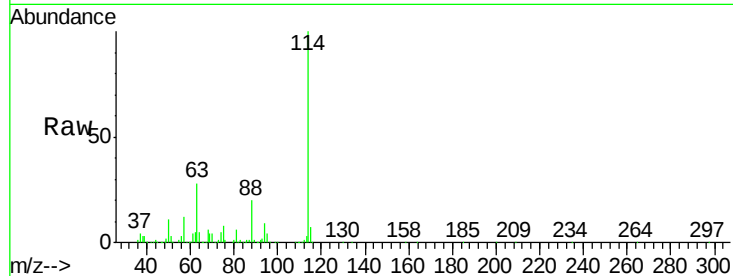
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.03 min
 Lab File: VL035059.D
 Acq: 20 May 2020 00:53

Instrument :
 MSVOA_L
 ClientSampleId :
 FL-SS

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.7	22.2	33.4
88	19.7	15.5	23.3

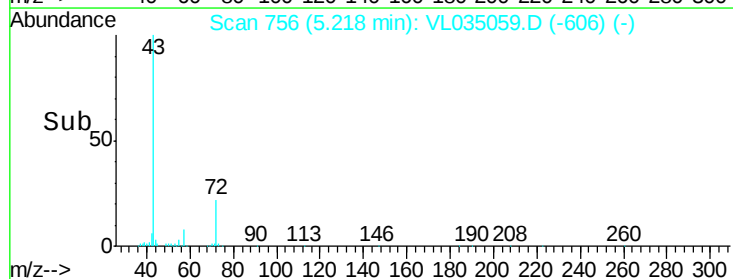
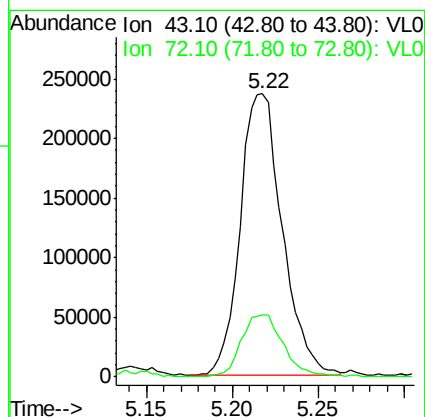
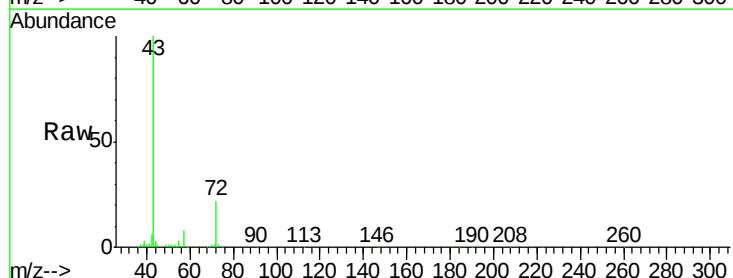
Manual Integrations
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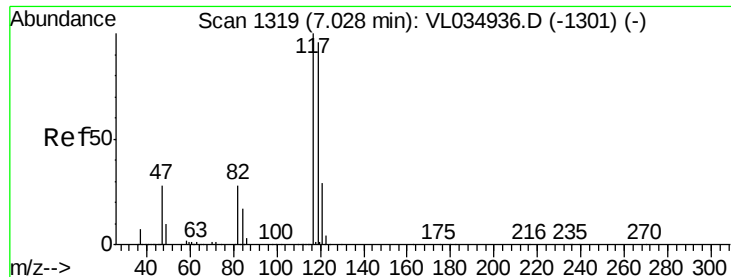
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#34
 2-Butanone
 Concen: 2.460 ppbv
 RT: 5.22 min Scan# 756
 Delta R.T. -0.02 min
 Lab File: VL035059.D
 Acq: 20 May 2020 00:53

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.3	18.0	27.0





#35

Carbon Tetrachloride

Concen: 0.071 ppbv m

RT: 7.01 min Scan# 1314

Delta R.T. -0.02 min

Lab File: VL035059.D

Acq: 20 May 2020 00:53

Instrument :

MSVOA_L

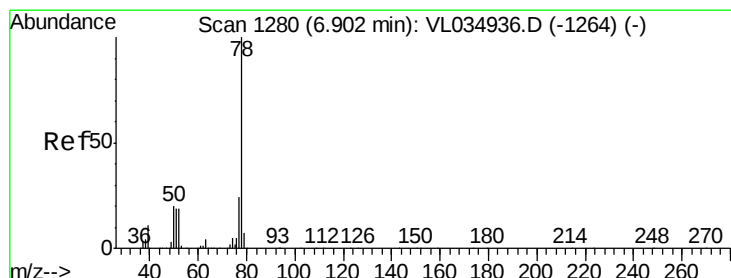
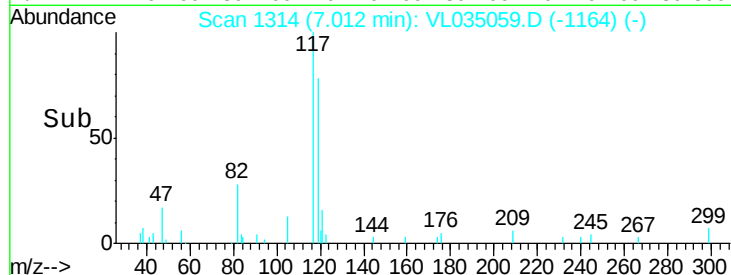
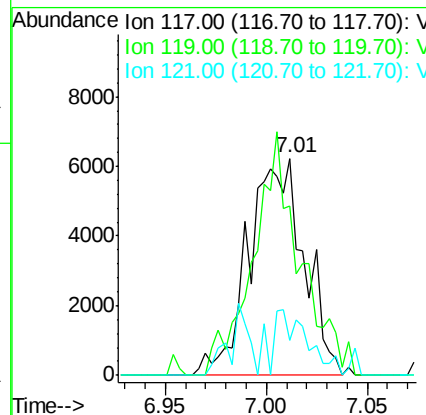
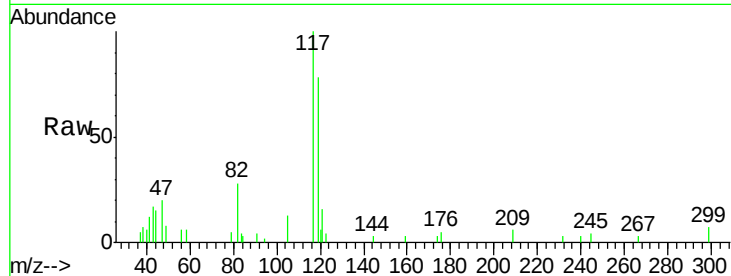
ClientSampleId :

FL-SS

Tot Ion	Ratio	Lower	Upper
117	100		
119	78.0	77.0	115.6
121	16.2	23.0	34.6#

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#36

Benzene

Concen: 0.116 ppbv m

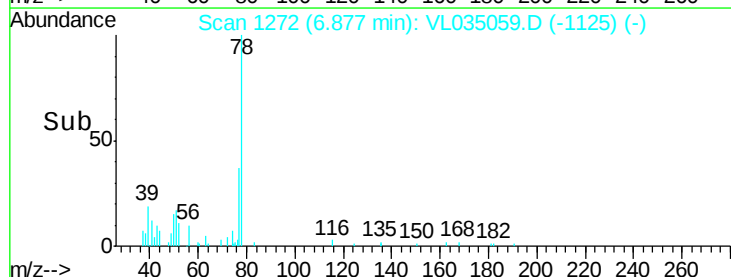
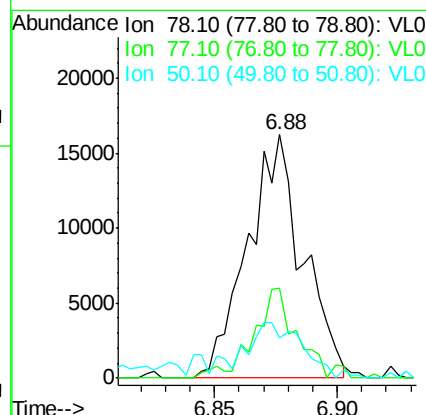
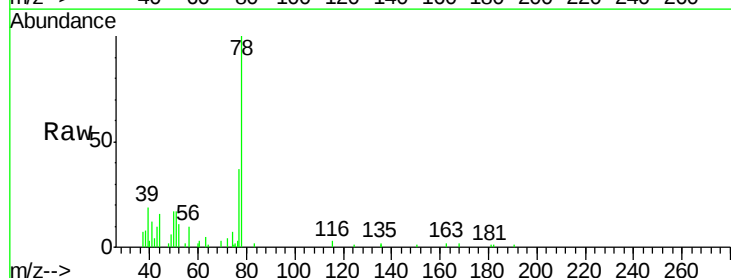
RT: 6.88 min Scan# 1272

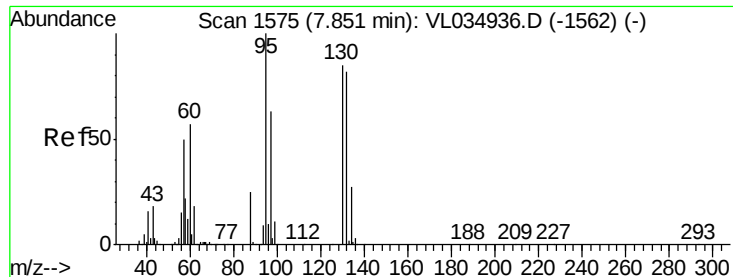
Delta R.T. -0.03 min

Lab File: VL035059.D

Acq: 20 May 2020 00:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	37.0	19.0	28.6#
50	16.7	15.8	23.8





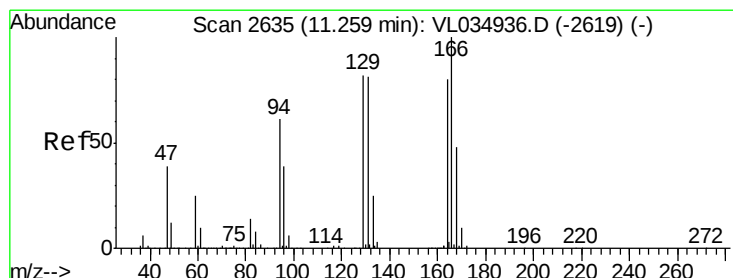
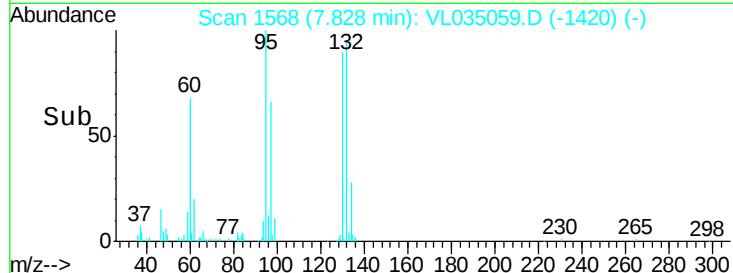
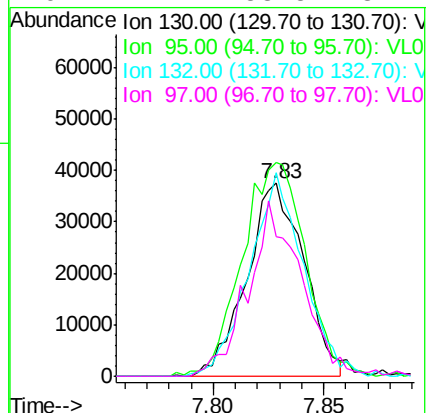
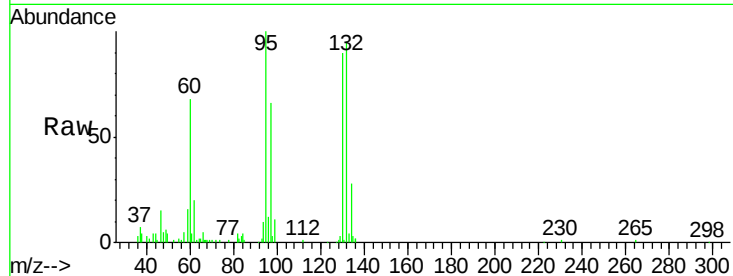
#38
 Trichloroethene
 Concen: 0.797 ppbv
 RT: 7.83 min Scan# 1568
 Delta R.T. -0.02 min
 Lab File: VL035059.D
 Acq: 20 May 2020 00:53

Instrument :
 MSVOA_L
 ClientSampled :
 FL-SS

Tot Ion	Ratio	Lower	Upper
130	100		
95	108.1	93.4	140.0
132	107.9	76.4	114.6
97	72.7	58.5	87.7

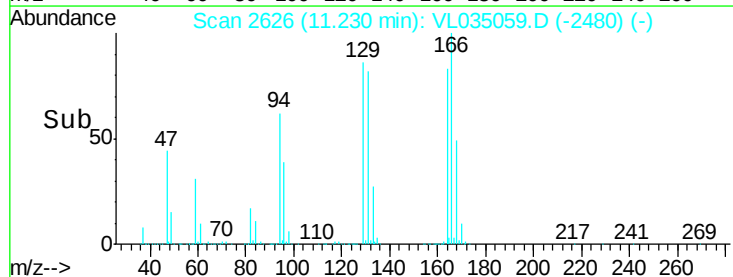
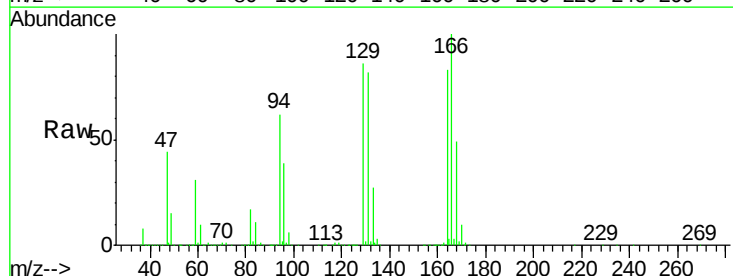
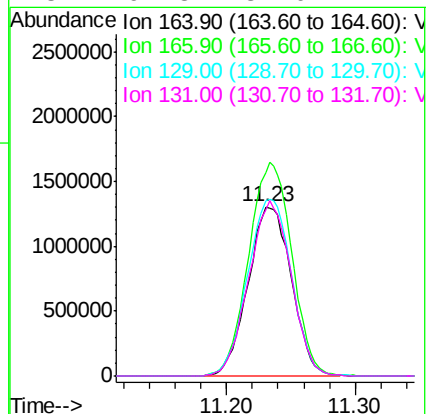
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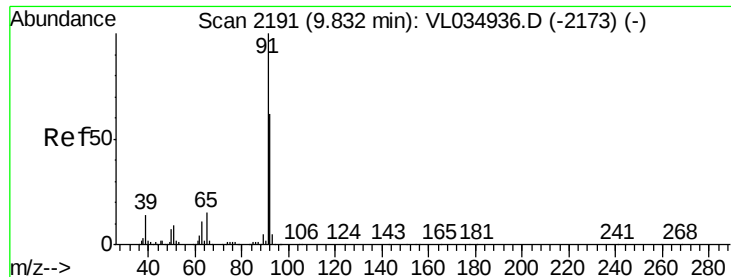
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#52
 Tetrachloroethene
 Concen: 39.427 ppbv
 RT: 11.23 min Scan# 2626
 Delta R.T. -0.03 min
 Lab File: VL035059.D
 Acq: 20 May 2020 00:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.1	100.7	151.1
129	103.7	83.0	124.4
131	97.8	81.0	121.4





#53

Toluene

Concen: 0.293 ppbv m

RT: 9.81 min Scan# 2184

Delta R.T. -0.02 min

Lab File: VL035059.D

Acq: 20 May 2020 00:53

Instrument :

MSVOA_L

ClientSampleId :

FL-SS

Tot Ion: 91 Resp: 67598

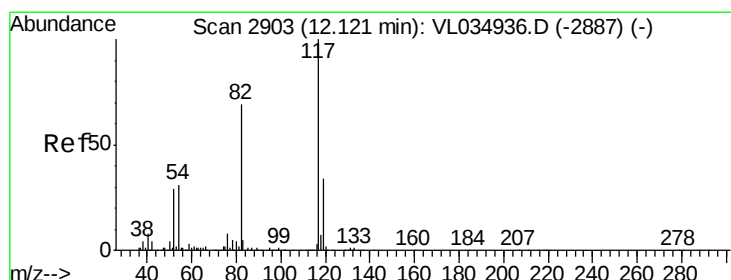
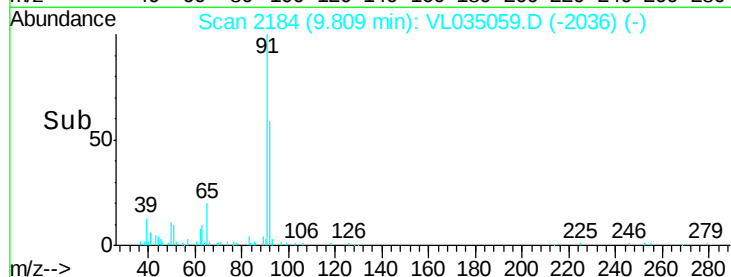
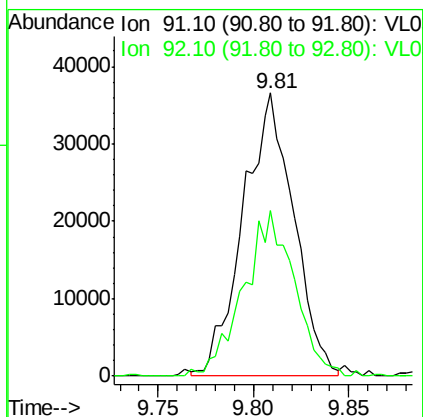
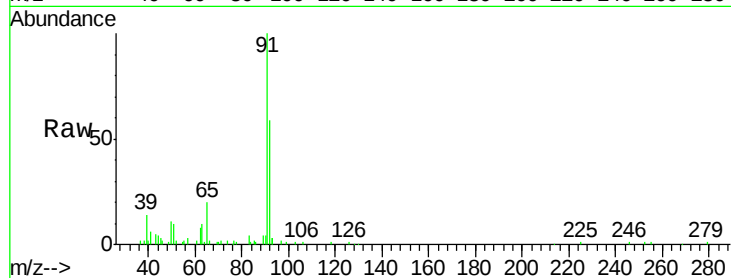
Ion Ratio Lower Upper

91 100

92 0.0 48.6 73.0#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. -0.03 min

Lab File: VL035059.D

Acq: 20 May 2020 00:53

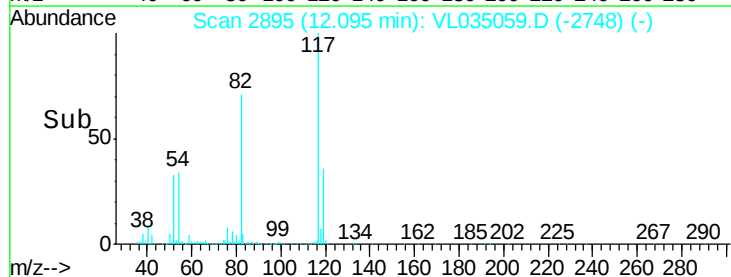
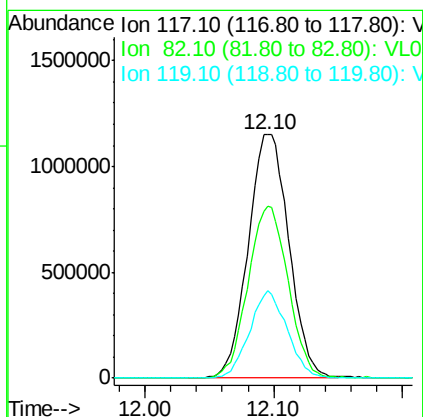
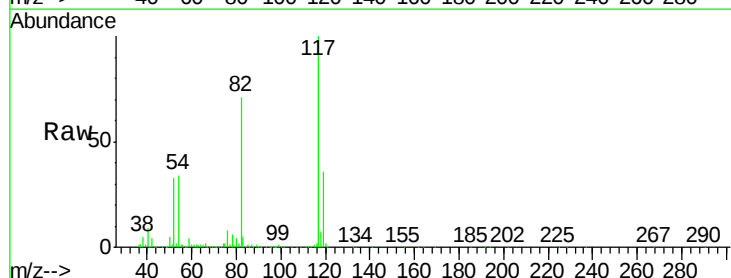
Tgt Ion: 117 Resp: 2533434

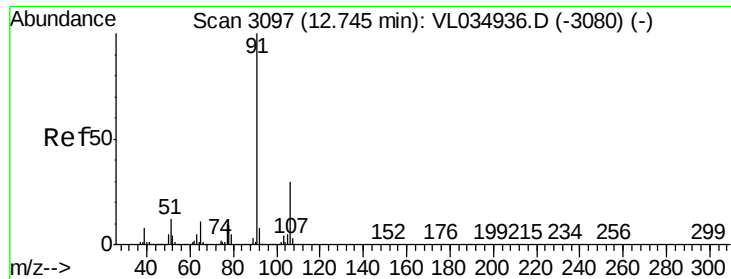
Ion Ratio Lower Upper

117 100

82 69.7 53.1 79.7

119 33.2 26.7 40.1





#58

Ethyl Benzene

Concen: 0.100 ppbv m

RT: 12.72 min Scan# 3090

Delta R.T. -0.02 min

Lab File: VL035059.D

Acq: 20 May 2020 00:53

Instrument :

MSVOA_L

ClientSampled :

FL-SS

Tot Ion: 91 Resp: 31277

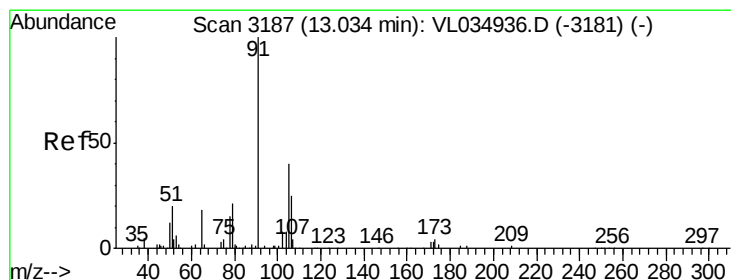
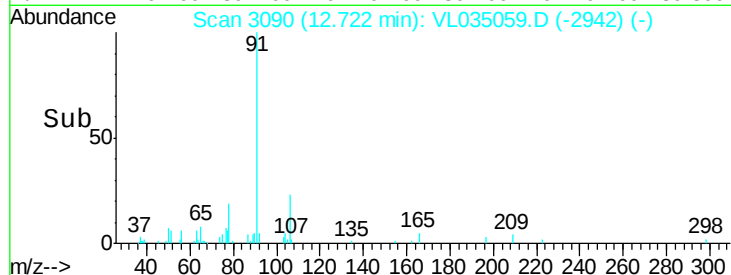
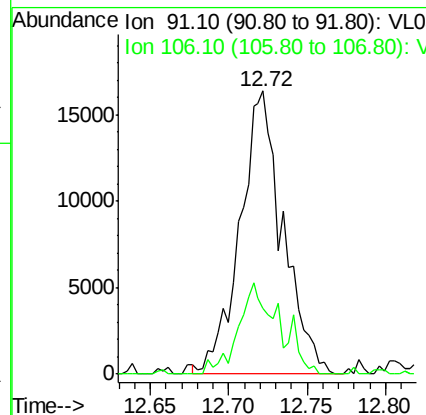
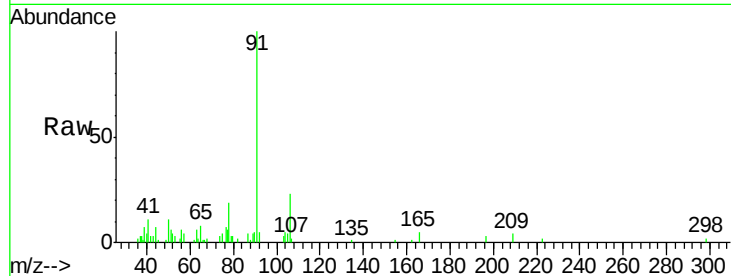
Ion Ratio Lower Upper

91 100

106 23.1 24.2 36.4#

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#59

m/p-Xylene

Concen: 0.463 ppbv m

RT: 12.98 min Scan# 3170

Delta R.T. -0.05 min

Lab File: VL035059.D

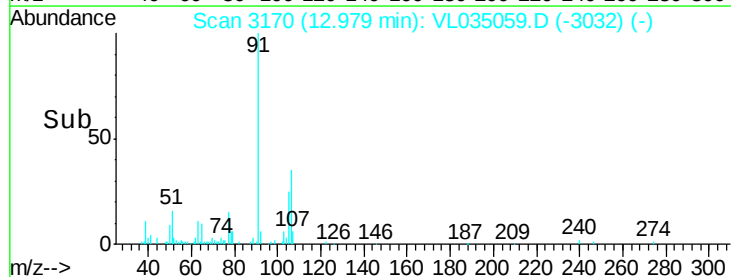
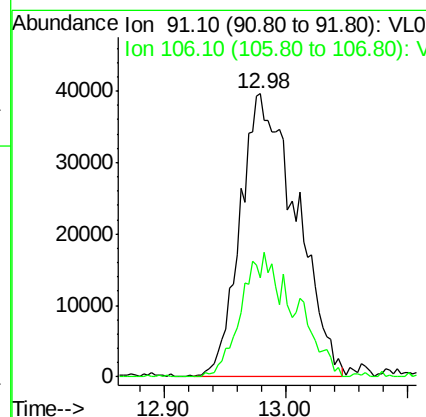
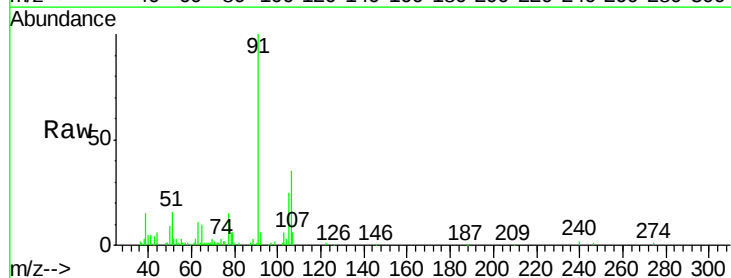
Acq: 20 May 2020 00:53

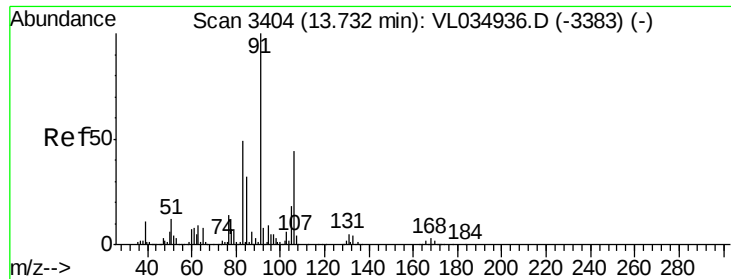
Tgt Ion: 91 Resp: 127672

Ion Ratio Lower Upper

91 100

106 0.0 66.0 99.0#





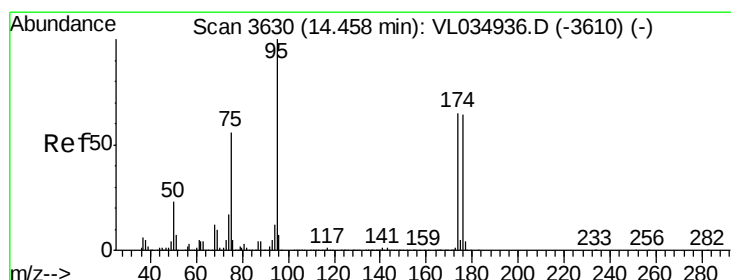
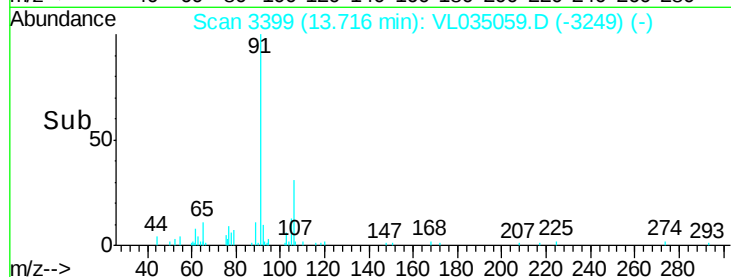
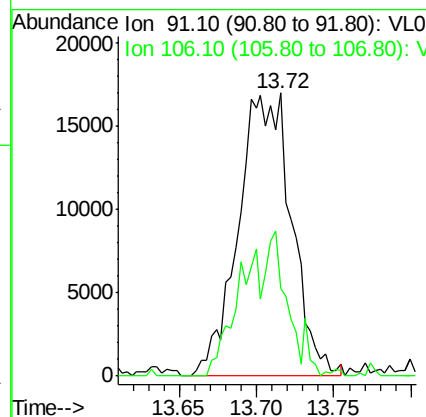
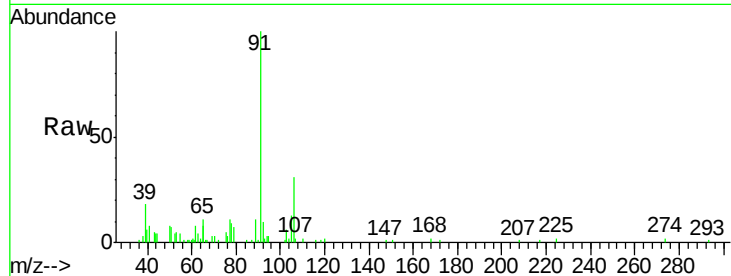
#60
o-Xylene
Concen: 0.149 ppbv m
RT: 13.72 min Scan# 3399
Delta R.T. -0.02 min
Lab File: VL035059.D
Acq: 20 May 2020 00:53

Instrument :
MSVOA_L
ClientSampled :
FL-SS

Tot Ion: 91 Resp: 40595
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.5#

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#68
1-Bromo-4-Fluorobenzene
Concen: 10.792 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. -0.03 min
Lab File: VL035059.D
Acq: 20 May 2020 00:53

Tgt Ion: 95 Resp: 2213066
Ion Ratio Lower Upper
95 100
174 63.9 51.5 77.3
175 4.7 3.8 5.8

