

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080620\
 Data File : VL035359.D
 Acq On : 6 Aug 2020 21:10
 Operator : SY/AP
 Sample : L3554-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 3-ABOVE-GROUND

Manual Integrations
 APPROVED

MMDadoda
 8/10/2020 10:43:29 AM

Quant Time: Aug 09 21:22:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 0
 QLast Update : Wed Aug 05 13:04:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1317998	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3215049	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	3030008	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2606362	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	43369	0.247	ppbv	95
4) Chloromethane	3.09	50	48560	0.570	ppbv	93
9) Propene	2.97	41	1828421m	34.105	ppbv	
11) Trichlorofluoromethane	3.91	101	55436m	0.244	ppbv	
13) Ethanol	3.56	45	1513757	81.867	ppbv	98
15) Acetone	3.81	43	1903355m	10.169	ppbv	
19) Isopropyl Alcohol	3.93	45	661330m	5.574	ppbv	
20) Methylene Chloride	4.31	84	192632	2.524	ppbv	92
26) Hexane	5.66	57	98969m	0.802	ppbv	
29) Chloroform	5.73	83	24410m	0.115	ppbv	
34) 2-Butanone	5.22	43	123382	0.779	ppbv	99
35) Carbon Tetrachloride	7.01	117	17705m	0.080	ppbv	
36) Benzene	6.88	78	25468m	0.117	ppbv	
38) Trichloroethene	7.84	130	6387m	0.064	ppbv	
53) Toluene	9.81	91	508265	2.152	ppbv	97
59) m/p-Xylene	12.98	91	50322m	0.171	ppbv	
60) o-Xylene	13.71	91	31811m	0.109	ppbv	
69) p-Isopropyltoluene	17.68	119	44896m	0.097	ppbv	
73) 1,3,5-Trimethylbenzene	16.02	105	37627m	0.118	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	116952m	0.321	ppbv	

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

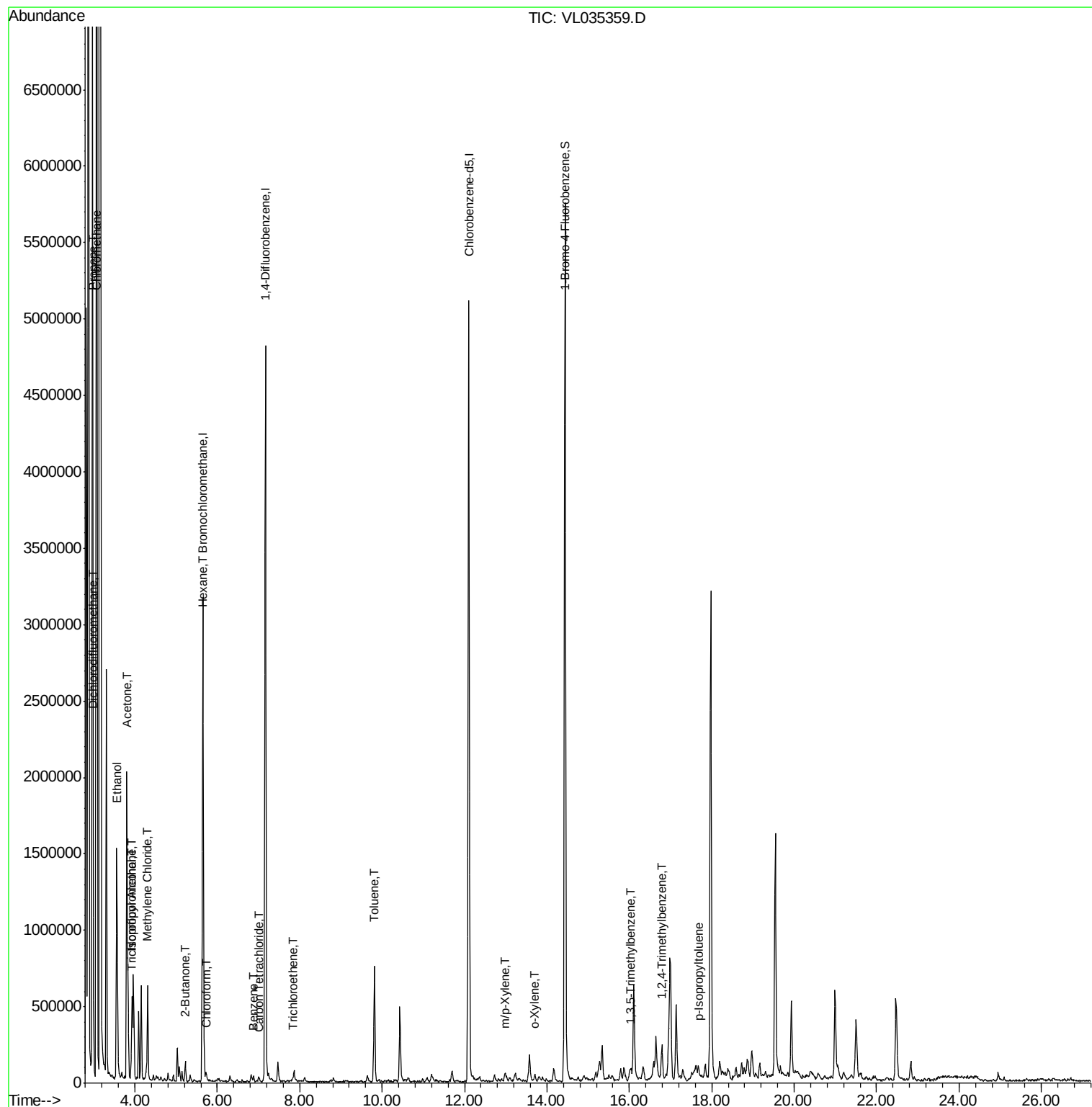
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL080620\
Data File : VL035359.D
Acq On : 6 Aug 2020 21:10
Operator : SY/AP
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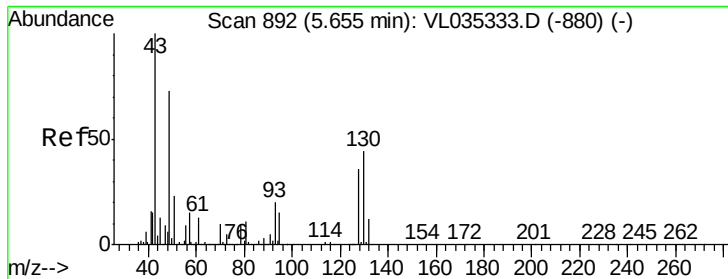
Instrument :
MSVOA_L
ClientSampleId :
3-ABOVE-GROUND

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Quant Time: Aug 09 21:22:43 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 05 13:04:46 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.01 min

Lab File: VL035359.D

Acq: 6 Aug 2020 21:10

Instrument :

MSVOA_L

ClientSampleId :

3-ABOVE-GROUND

Tot Ion: 49 Resp: 1317998

Ion Ratio Lower Upper

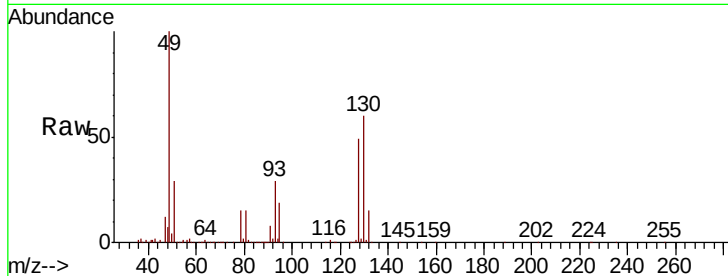
49 100

128 50.4 25.4 76.0

130 63.8 32.1 96.3

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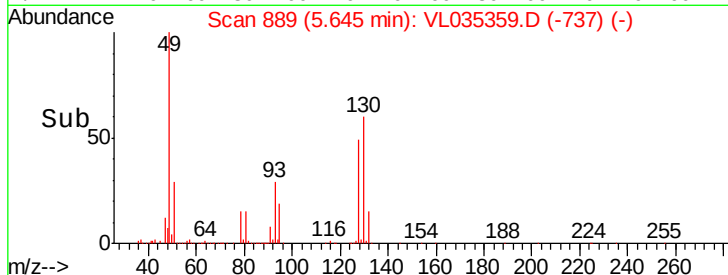


Abundance Ion 49.10 (48.80 to 49.80): VL0

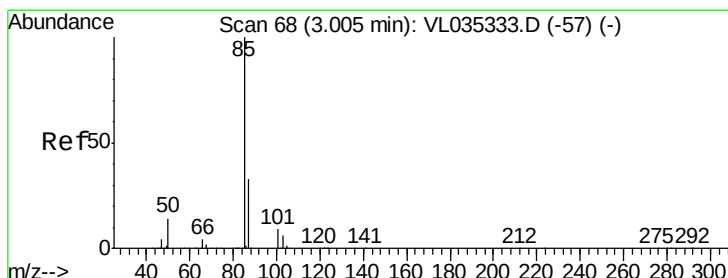
Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 0.247 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL035359.D

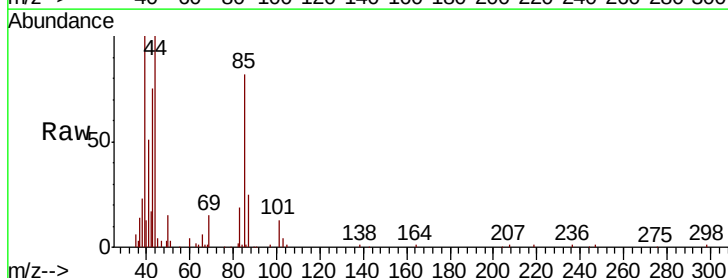
Acq: 6 Aug 2020 21:10

Tgt Ion: 85 Resp: 43369

Ion Ratio Lower Upper

85 100

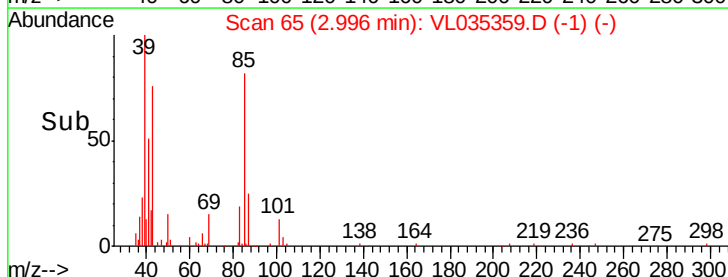
87 30.5 26.7 40.1



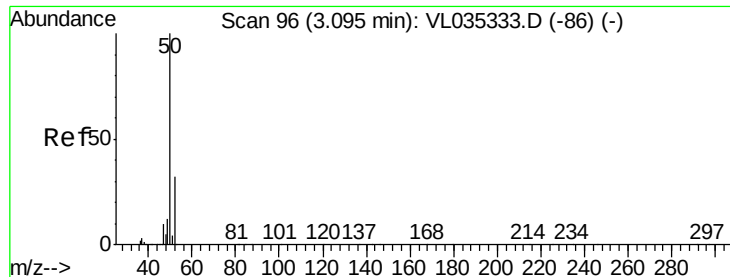
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->



Time-->



#4

Chloromethane

Concen: 0.570 ppbv

RT: 3.09 min Scan# 94

Delta R.T. -0.01 min

Lab File: VL035359.D

Acq: 6 Aug 2020 21:10

Instrument :

MSVOA_L

ClientSampleId :

3-ABOVE-GROUND

Tot Ion: 50 Resp: 48560

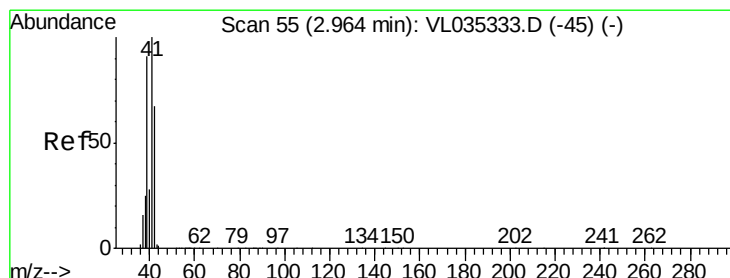
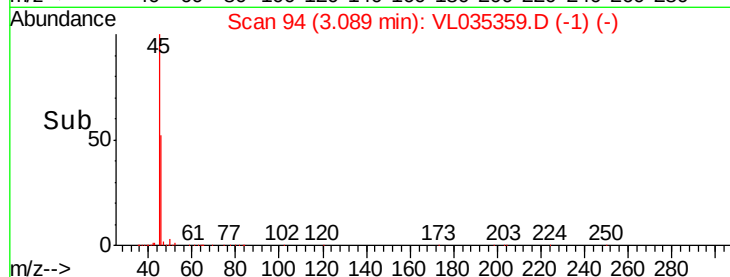
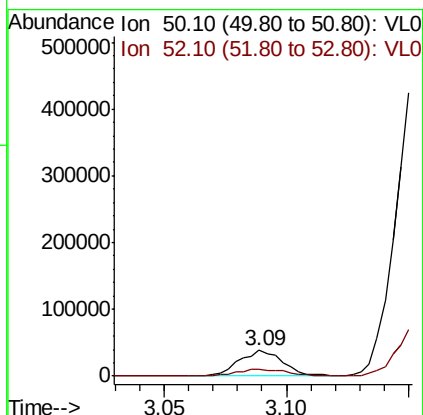
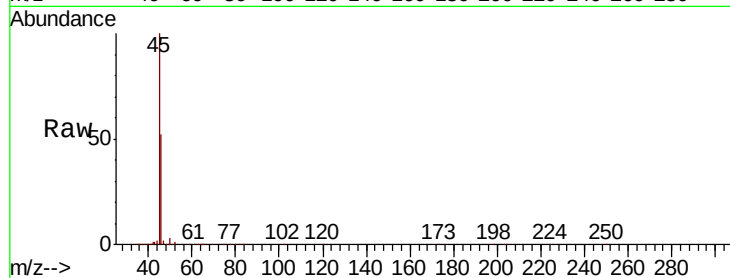
Ion Ratio Lower Upper

50 100

52 28.7 26.0 39.0

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#9

Propene

Concen: 34.105 ppbv m

RT: 2.97 min Scan# 57

Delta R.T. 0.01 min

Lab File: VL035359.D

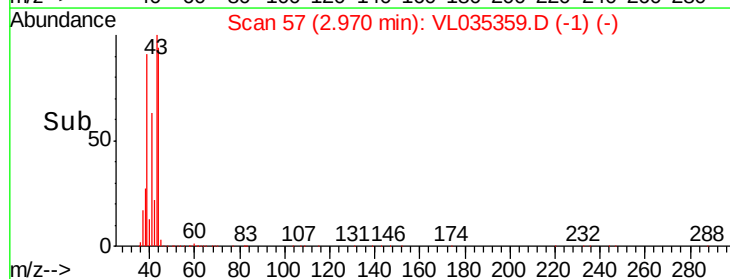
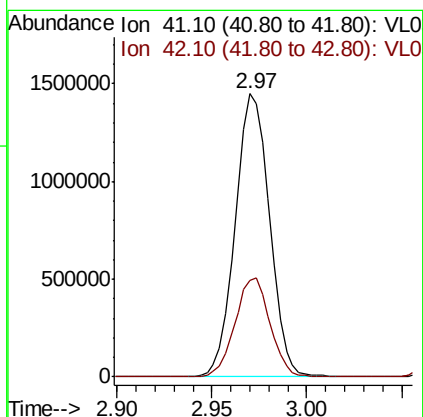
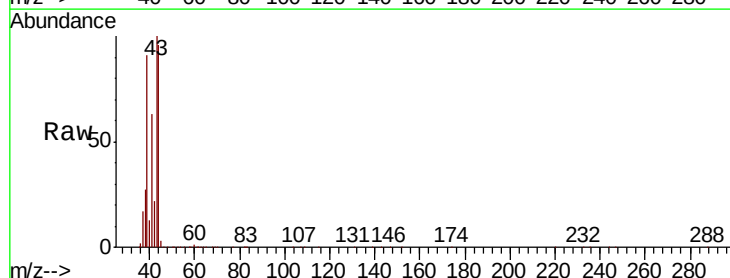
Acq: 6 Aug 2020 21:10

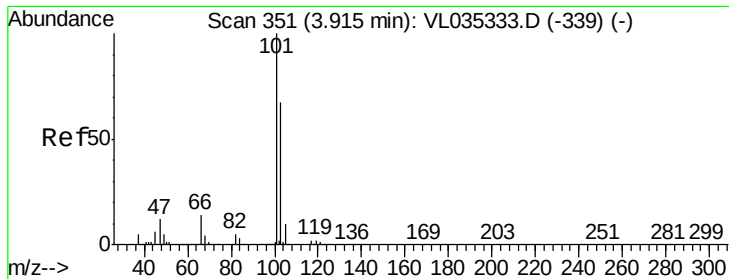
Tgt Ion: 41 Resp: 1828421

Ion Ratio Lower Upper

41 100

42 502.4 55.3 82.9#





#11

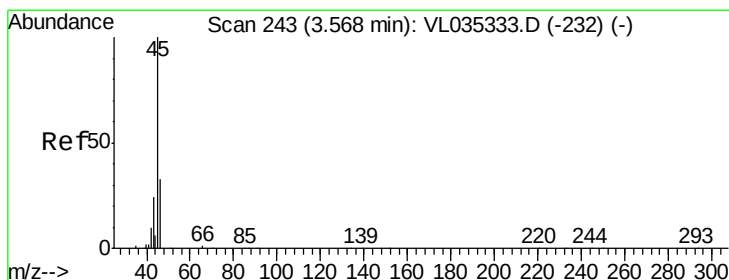
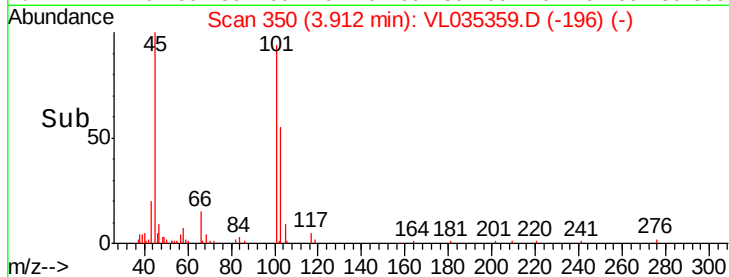
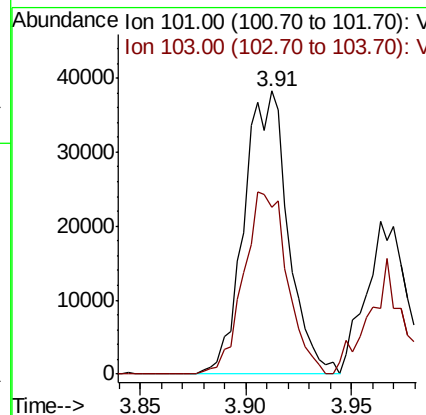
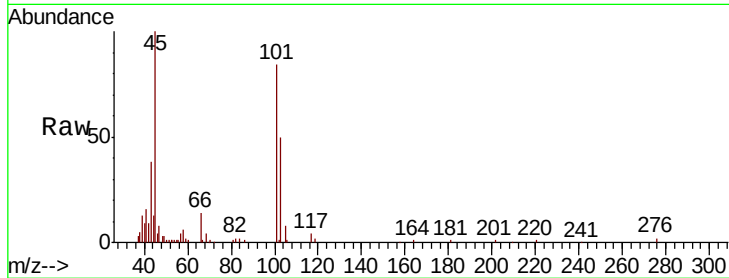
Trichlorofluoromethane
 Concen: 0.244 ppbv m
 RT: 3.91 min Scan# 350
 Delta R.T. -0.00 min
 Lab File: VL035359.D
 Acq: 6 Aug 2020 21:10

Instrument :
 MSVOA_L
 ClientSampleId :
 3-ABOVE-GROUND

Tot Ion	Ratio	Lower	Upper
101	100		
103	58.9	53.8	80.8

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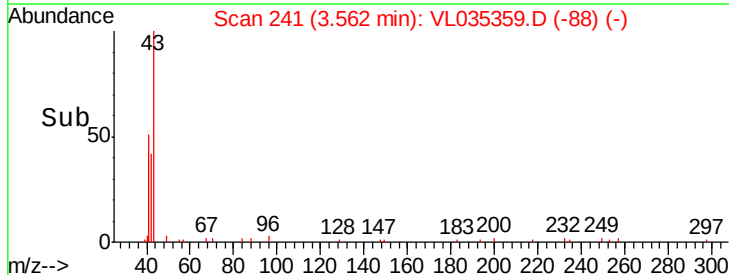
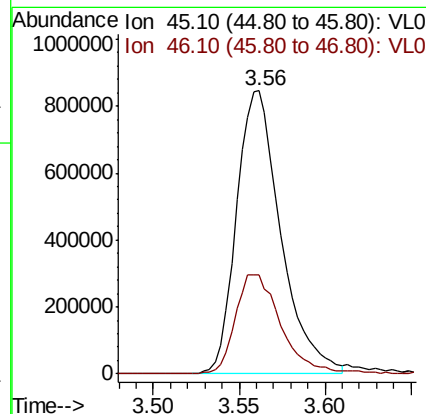
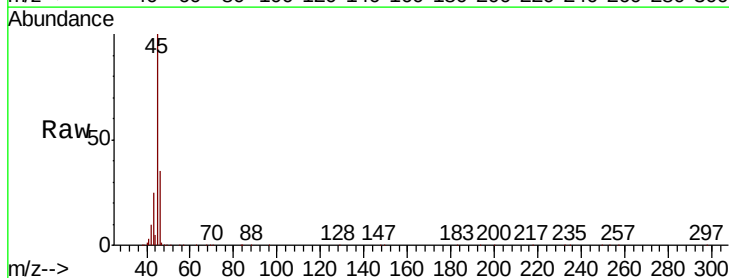
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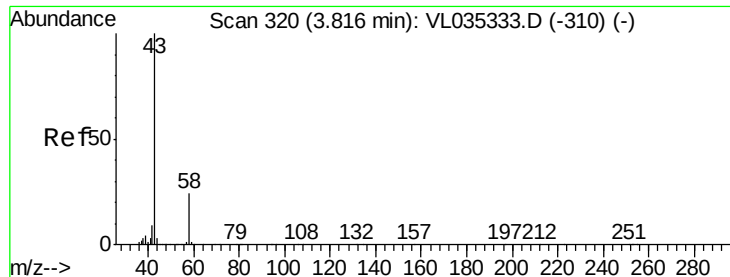


#13

Ethanol
 Concen: 81.867 ppbv
 RT: 3.56 min Scan# 241
 Delta R.T. -0.01 min
 Lab File: VL035359.D
 Acq: 6 Aug 2020 21:10

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.7	15.2	61.0





#15

Acetone

Concen: 10.169 ppbv m

RT: 3.81 min Scan# 317

Delta R.T. -0.01 min

Lab File: VL035359.D

Acq: 6 Aug 2020 21:10

Instrument :

MSVOA_L

ClientSampleId :

3-ABOVE-GROUND

Tot Ion: 43 Resp: 1903355

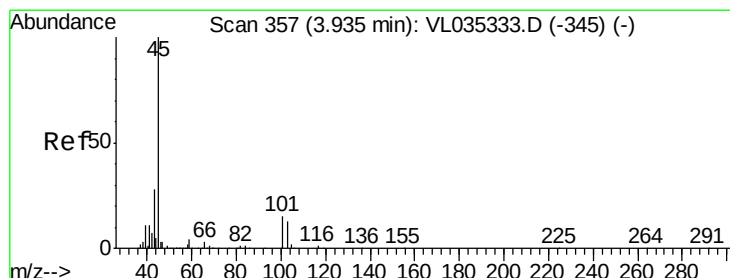
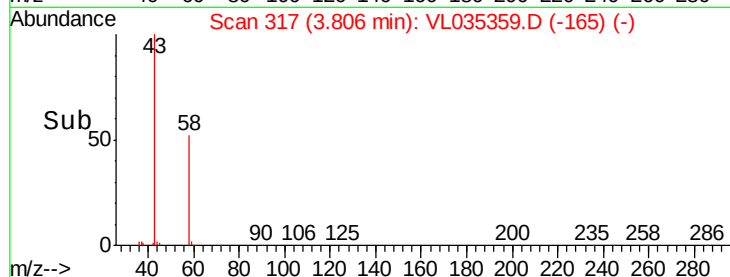
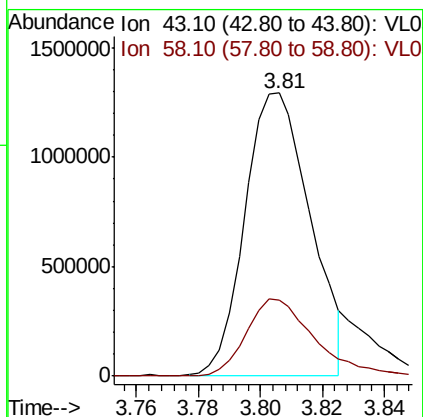
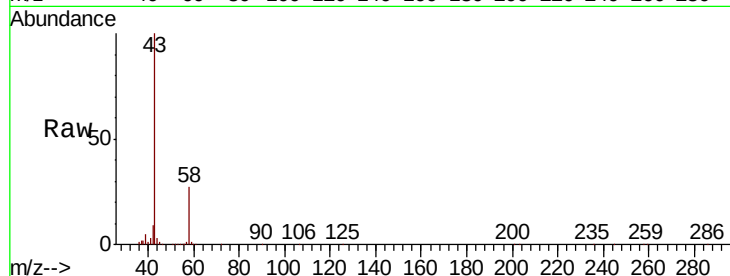
Ion Ratio Lower Upper

43 100

58 28.9 21.0 31.4

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#19

Isopropyl Alcohol

Concen: 5.574 ppbv m

RT: 3.93 min Scan# 355

Delta R.T. -0.01 min

Lab File: VL035359.D

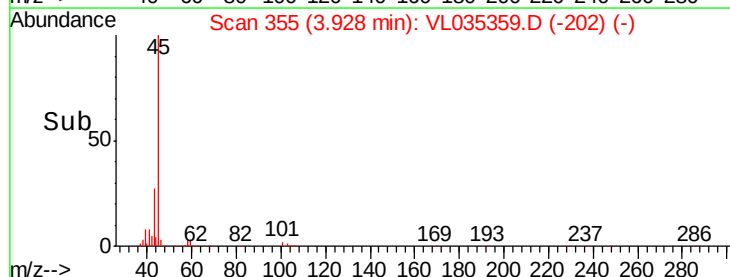
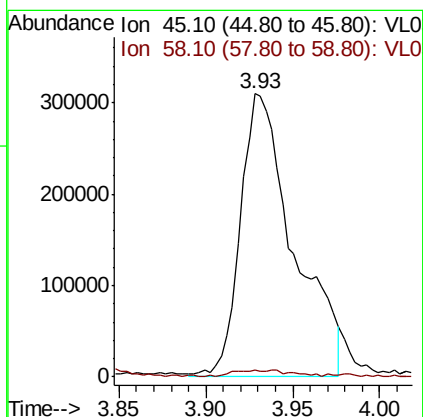
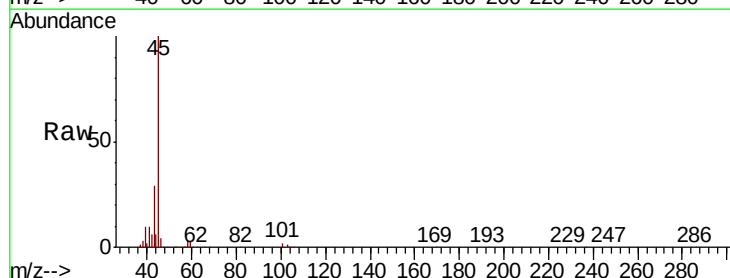
Acq: 6 Aug 2020 21:10

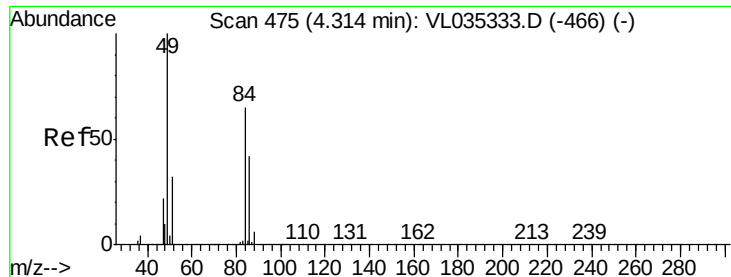
Tgt Ion: 45 Resp: 661330

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#





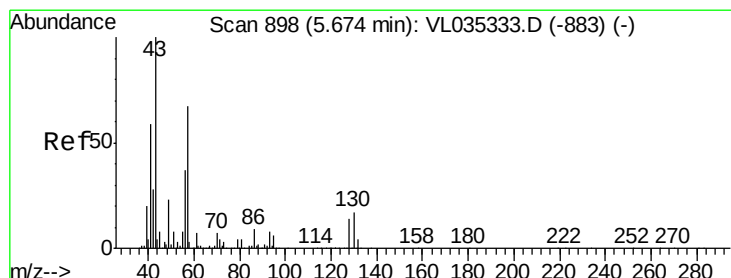
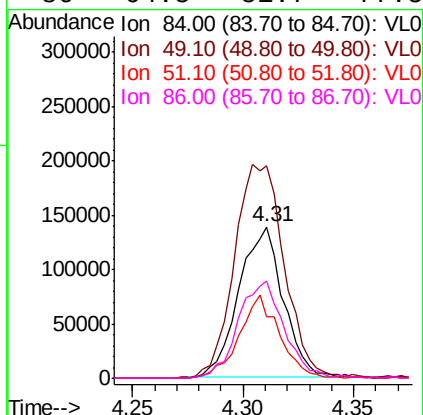
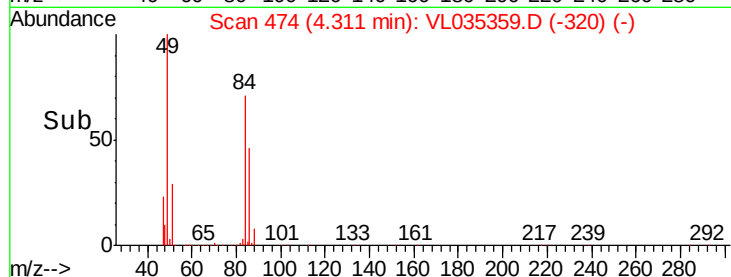
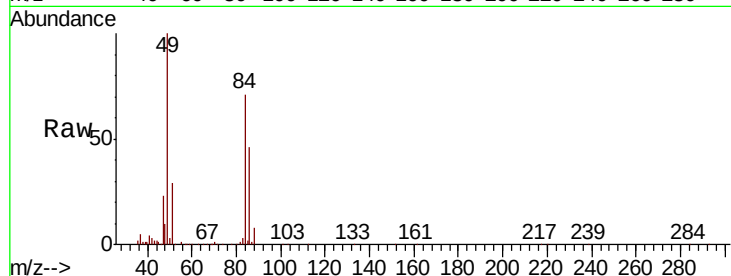
#20
Methvlene Chloride
Concen: 2.524 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.00 min
Lab File: VL035359.D
Acq: 6 Aug 2020 21:10

Instrument :
MSVOA_L
ClientSampleId :
3-ABOVE-GROUND

Tot Ion	Ratio	Lower	Upper
84	100		
49	140.5	122.8	184.2
51	41.1	40.1	60.1
86	64.5	51.7	77.5

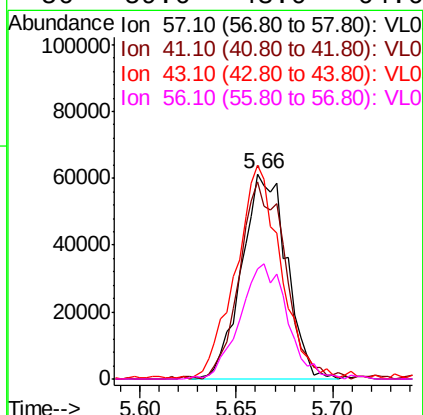
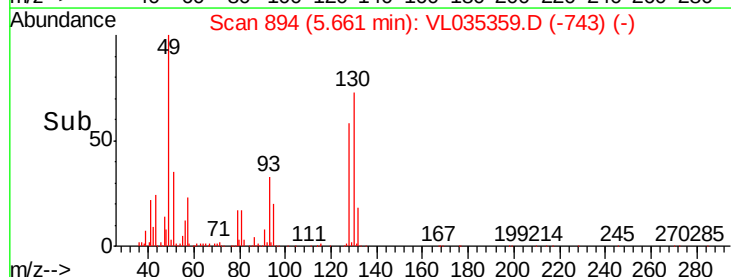
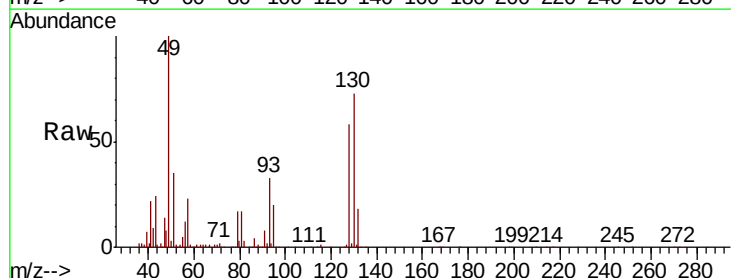
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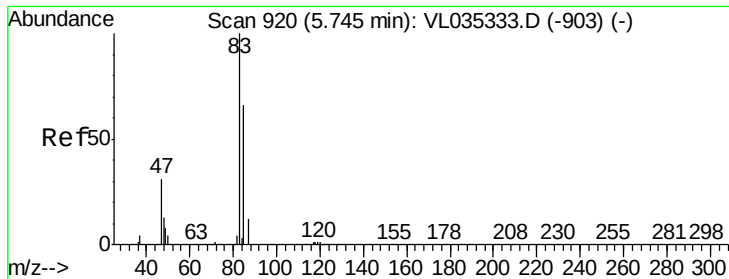
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#26
Hexane
Concen: 0.802 ppbv m
RT: 5.66 min Scan# 894
Delta R.T. -0.01 min
Lab File: VL035359.D
Acq: 6 Aug 2020 21:10

Tgt Ion	Ratio	Lower	Upper
57	100		
41	99.5	75.2	112.8
43	107.3	180.6	270.8#
56	59.6	43.0	64.6





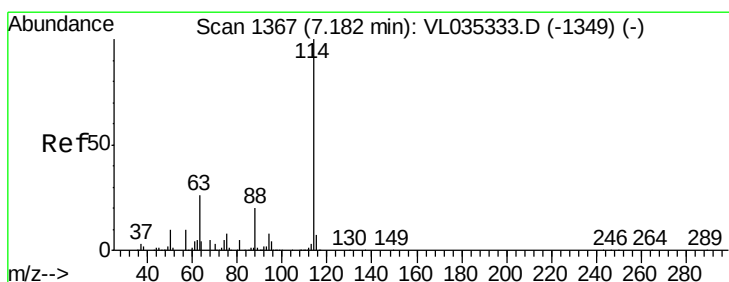
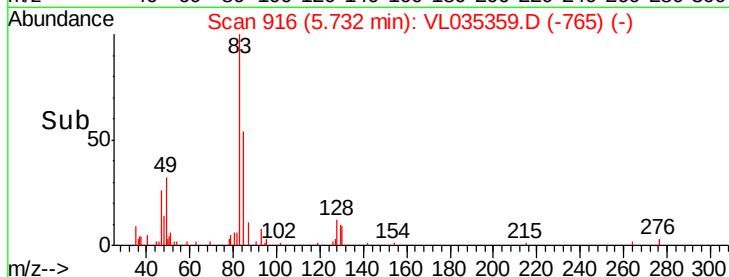
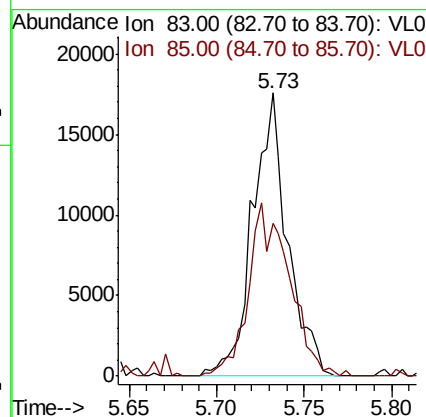
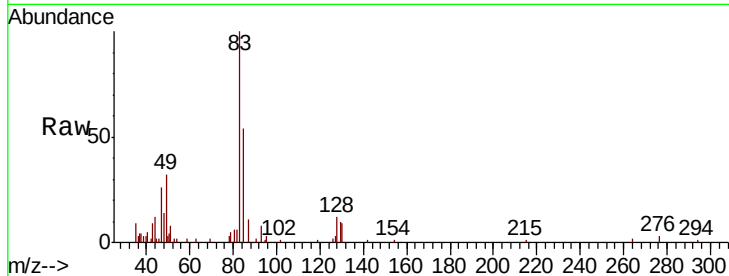
#29
Chloroform
Concen: 0.115 ppbv m
RT: 5.73 min Scan# 916
Delta R.T. -0.01 min
Lab File: VL035359.D
Acq: 6 Aug 2020 21:10

Instrument :
MSVOA_L
ClientSampleId :
3-ABOVE-GROUND

Tot Ion: 83 Resp: 24410
Ion Ratio Lower Upper
83 100
85 53.9 52.9 79.3

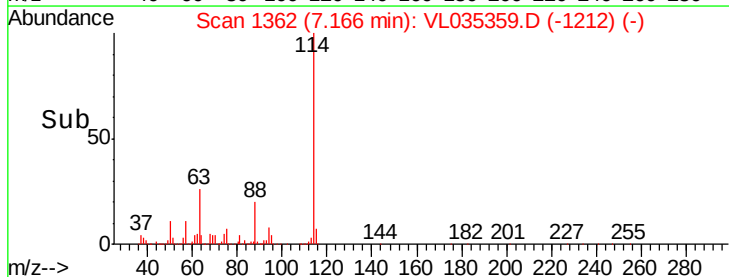
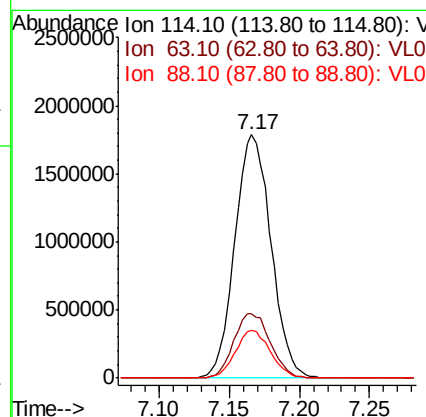
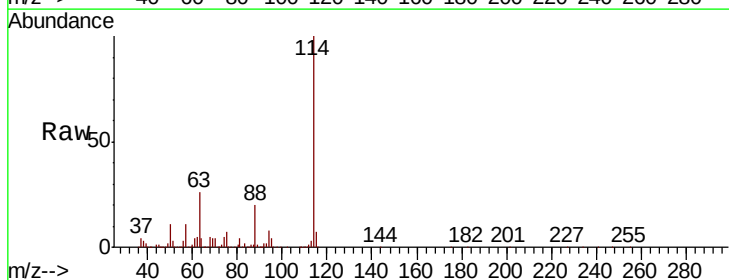
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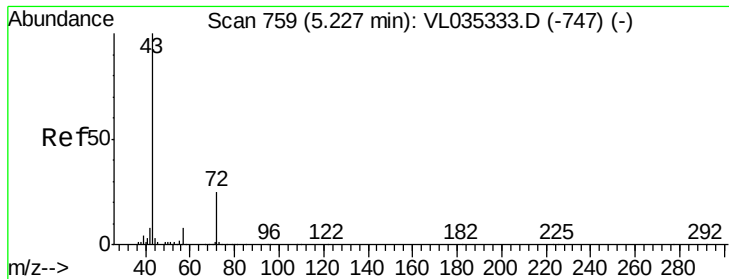
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.02 min
Lab File: VL035359.D
Acq: 6 Aug 2020 21:10

Tgt Ion: 114 Resp: 3215049
Ion Ratio Lower Upper
114 100
63 26.9 21.3 31.9
88 19.2 15.3 22.9





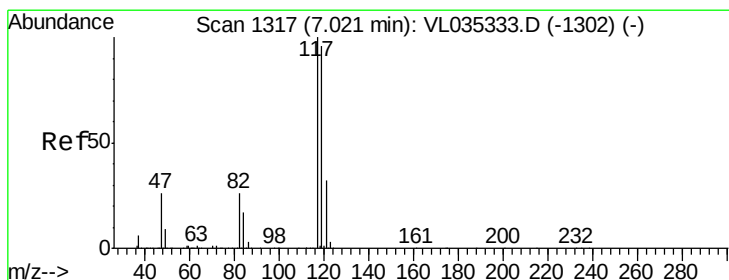
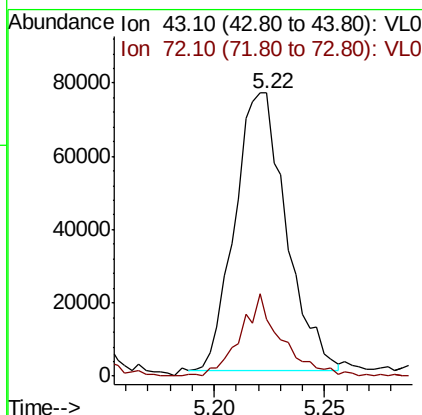
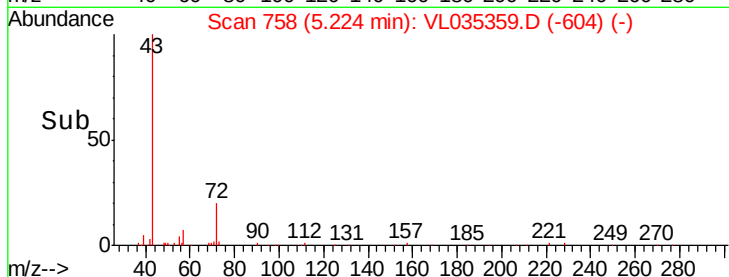
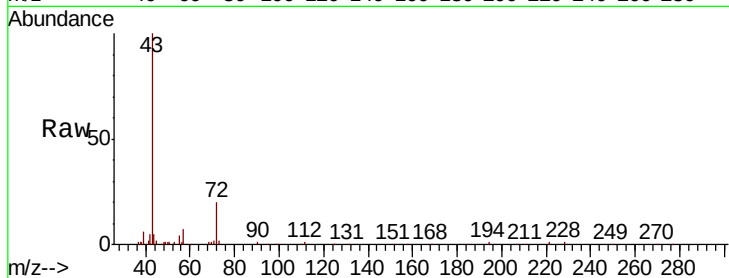
#34
2-Butanone
Concen: 0.779 ppbv
RT: 5.22 min Scan# 758
Delta R.T. -0.00 min
Lab File: VL035359.D
Acq: 6 Aug 2020 21:10

Instrument :
MSVOA_L
ClientSampleId :
3-ABOVE-GROUND

Tot Ion	Ratio	Lower	Upper
43	100		
72	23.3	18.9	28.3

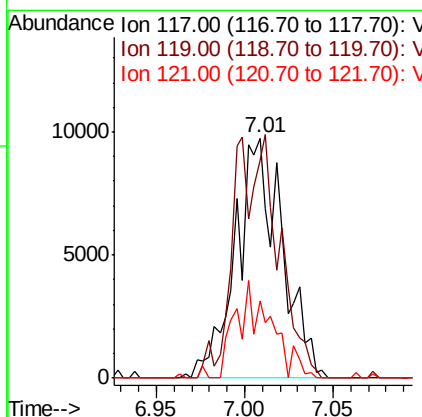
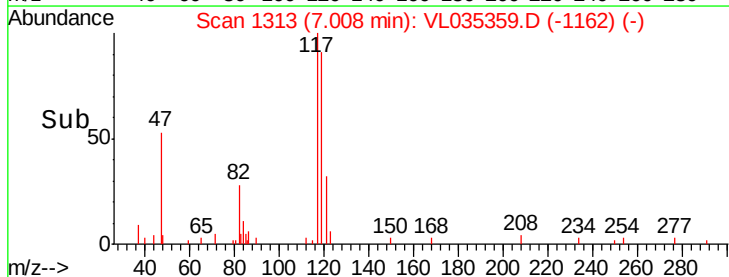
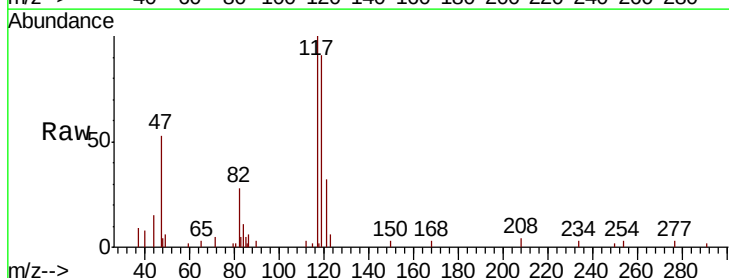
Manual Integrations
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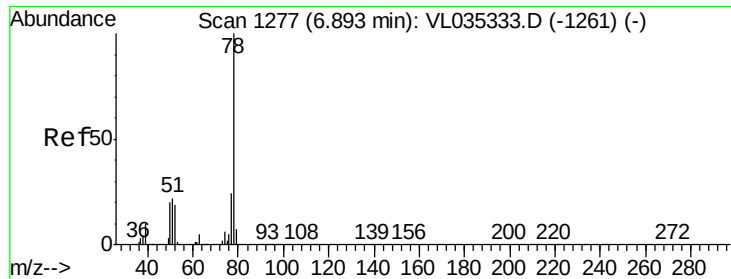
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#35
Carbon Tetrachloride
Concen: 0.080 ppbv m
RT: 7.01 min Scan# 1313
Delta R.T. -0.01 min
Lab File: VL035359.D
Acq: 6 Aug 2020 21:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	90.7	77.0	115.6
121	31.9	26.0	39.0





#36

Benzene

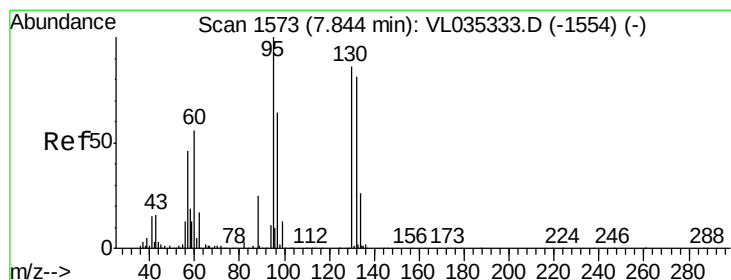
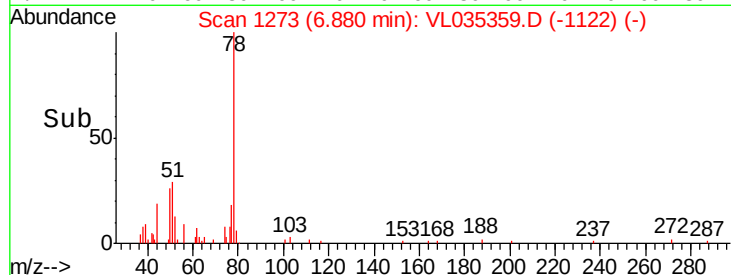
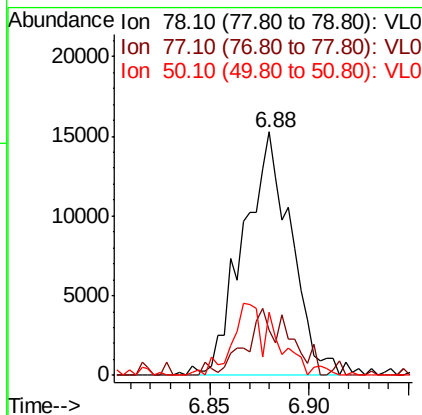
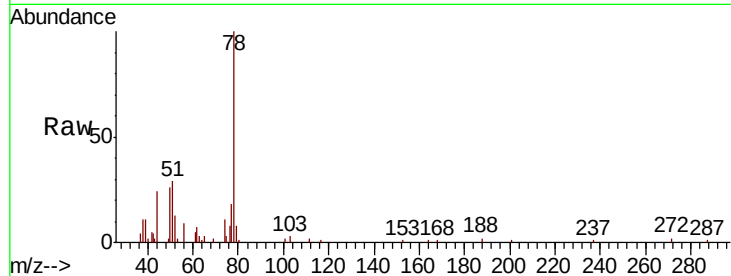
Concen: 0.117 ppbv m
RT: 6.88 min Scan# 1273
Delta R.T. -0.01 min
Lab File: VL035359.D
Acq: 6 Aug 2020 21:10

Instrument :
MSVOA_L
ClientSampleId :
3-ABOVE-GROUND

Tot Ion	Ratio	Lower	Upper
78	100		
77	18.5	19.3	28.9#
50	26.0	16.3	24.5#

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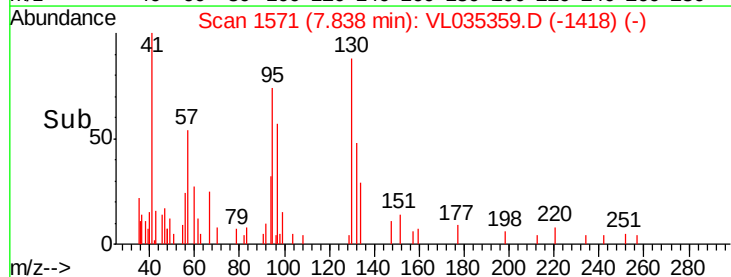
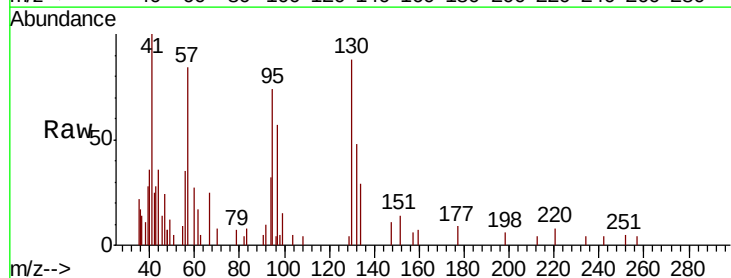
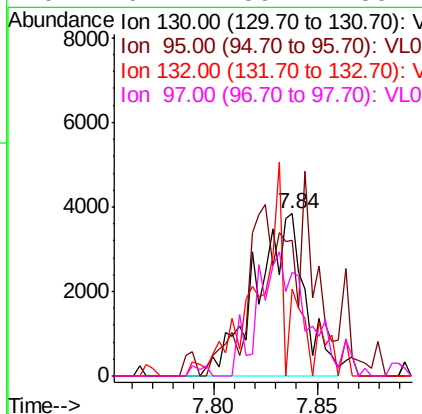


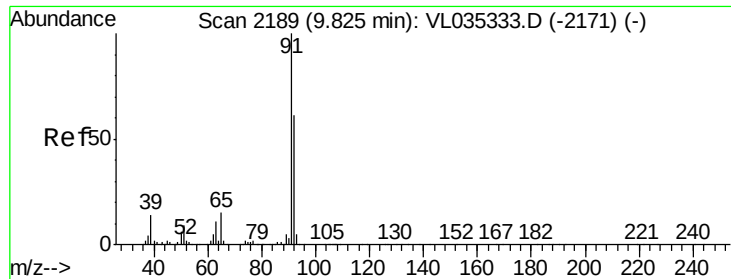
#38

Trichloroethene

Concen: 0.064 ppbv m
RT: 7.84 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VL035359.D
Acq: 6 Aug 2020 21:10

Tgt Ion	Ratio	Lower	Upper
130	100		
95	84.0	93.4	140.2#
132	53.9	76.1	114.1#
97	64.2	59.4	89.2





#53

Toluene

Concen: 2.152 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.02 min

Lab File: VL035359.D

Acq: 6 Aug 2020 21:10

Instrument :

MSVOA_L

ClientSampleId :

3-ABOVE-GROUND

Tot Ion: 91 Resp: 508265

Ion Ratio Lower Upper

91 100

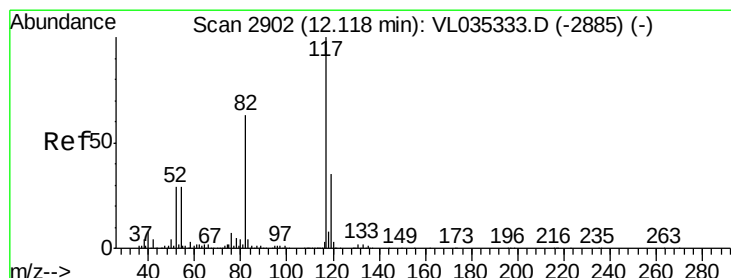
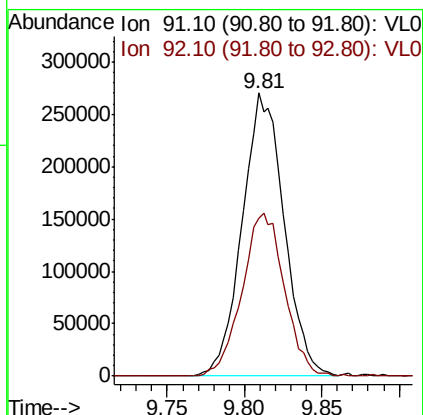
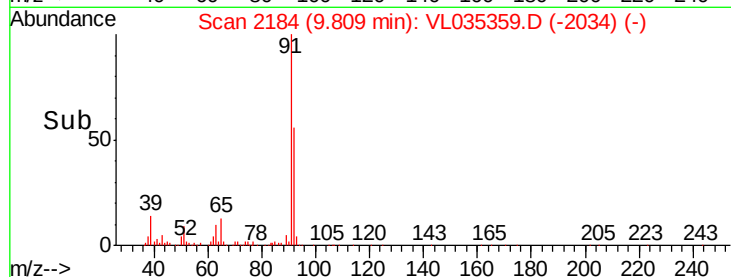
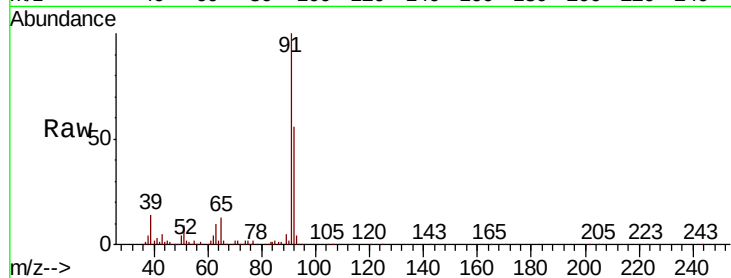
92 58.6 48.5 72.7

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.02 min

Lab File: VL035359.D

Acq: 6 Aug 2020 21:10

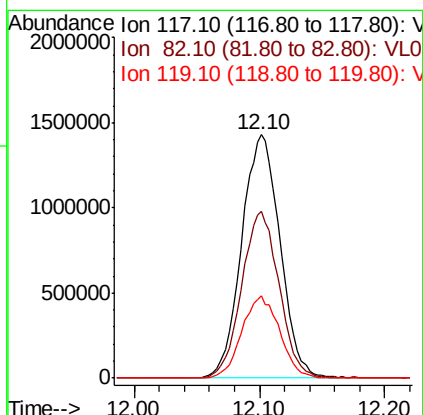
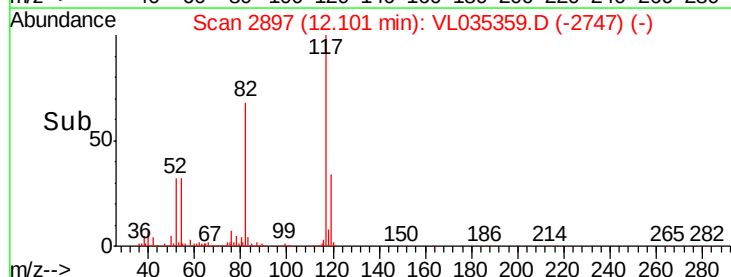
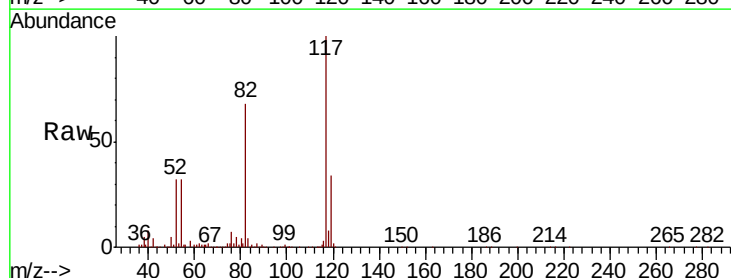
Tgt Ion: 117 Resp: 3030008

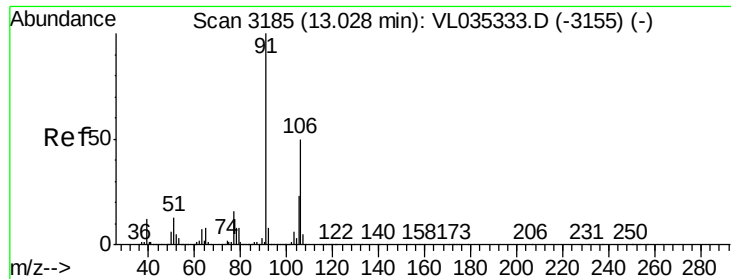
Ion Ratio Lower Upper

117 100

82 67.3 51.0 76.4

119 33.5 24.7 37.1





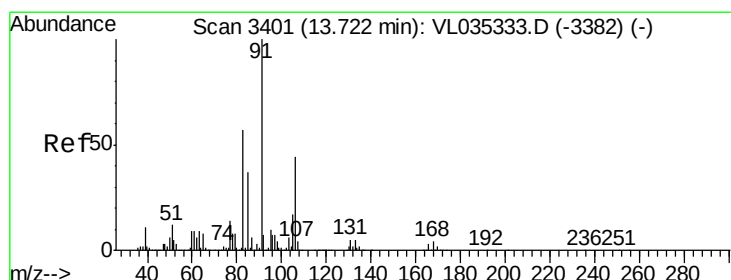
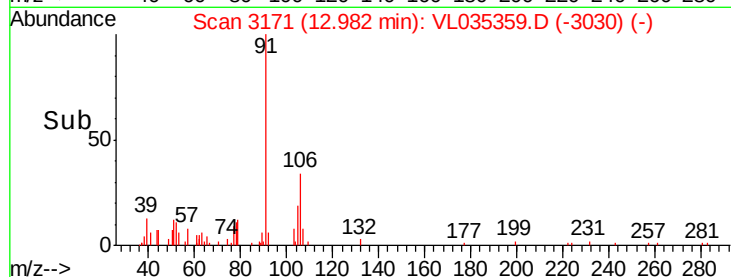
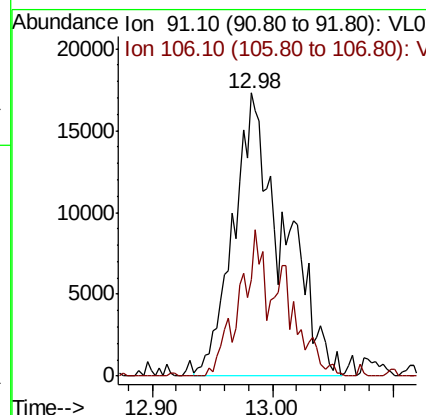
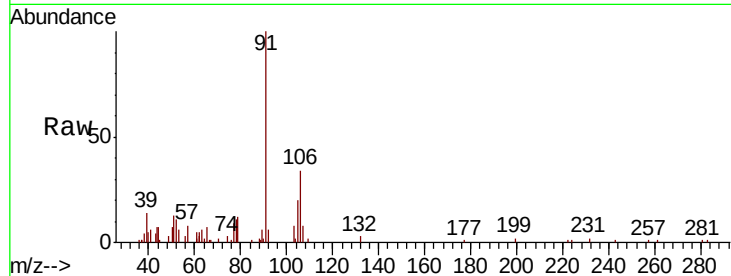
#59
m/p-Xylene
Concen: 0.171 ppbv m
RT: 12.98 min Scan# 3171
Delta R.T. -0.05 min
Lab File: VL035359.D
Acq: 6 Aug 2020 21:10

Instrument :
MSVOA_L
ClientSampleId :
3-ABOVE-GROUND

Tot Ion: 91 Resp: 50322
Ion Ratio Lower Upper
91 100
106 0.0 37.8 56.8#

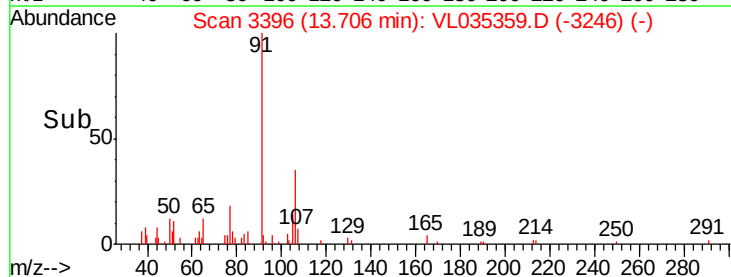
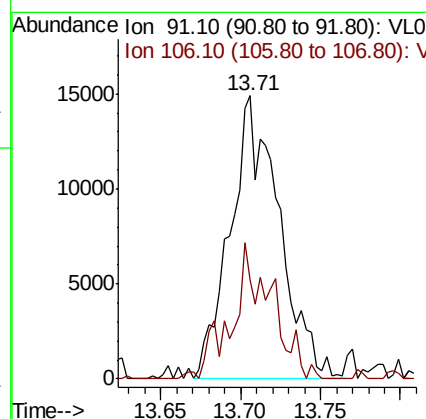
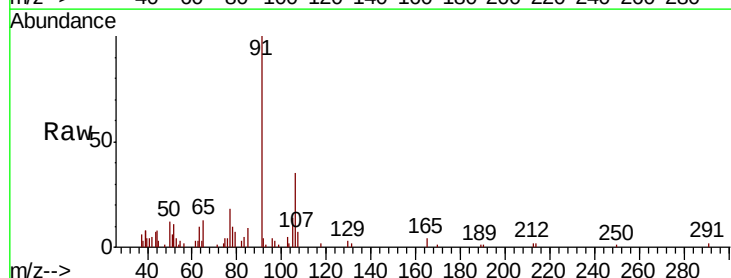
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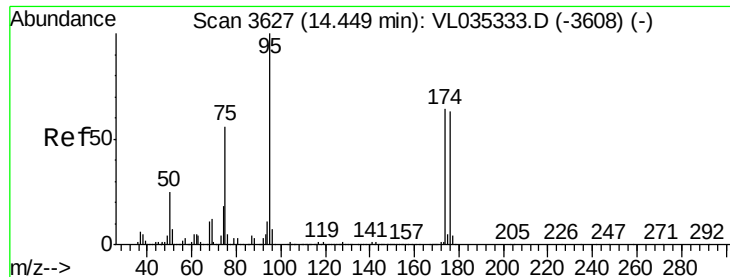
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#60
o-Xylene
Concen: 0.109 ppbv m
RT: 13.71 min Scan# 3396
Delta R.T. -0.02 min
Lab File: VL035359.D
Acq: 6 Aug 2020 21:10

Tgt Ion: 91 Resp: 31811
Ion Ratio Lower Upper
91 100
106 39.6 22.7 68.0





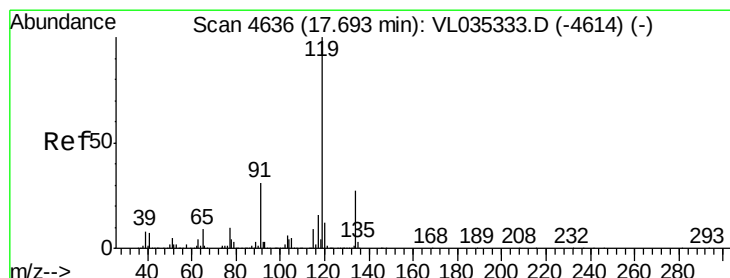
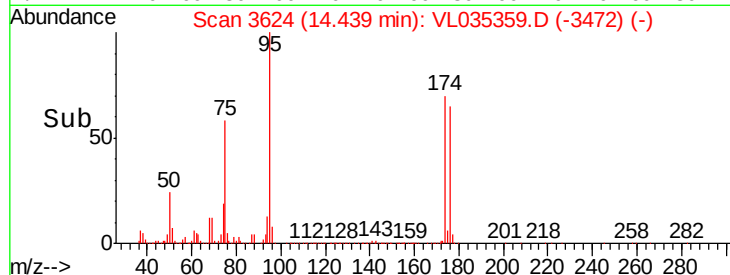
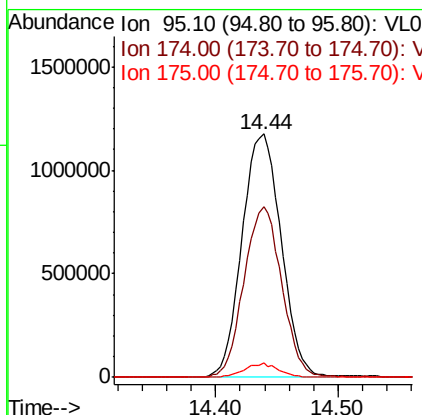
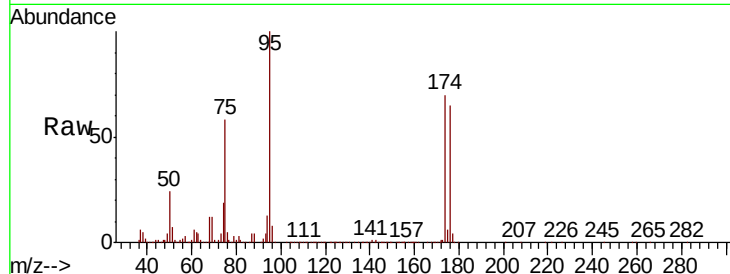
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.315 ppbv
 RT: 14.44 min Scan# 3624
 Delta R.T. -0.01 min
 Lab File: VL035359.D
 Acq: 6 Aug 2020 21:10

Instrument :
 MSVOA_L
 ClientSampleId :
 3-ABOVE-GROUND

Tot Ion: 95 Resp: 2606362
 Ion Ratio Lower Upper
 95 100
 174 67.9 53.5 80.3
 175 5.1 4.2 6.2

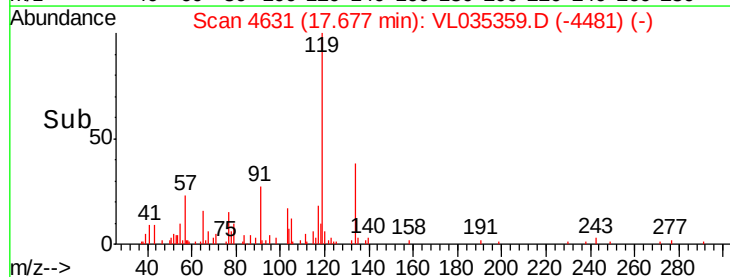
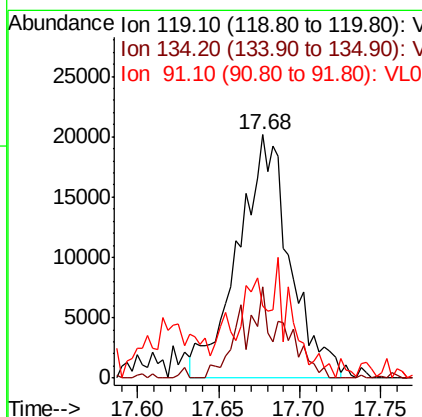
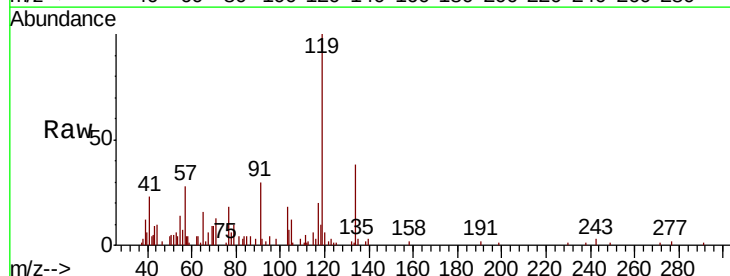
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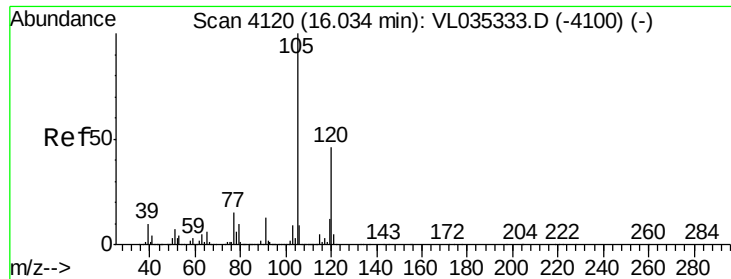
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#69
 p-Isopropyltoluene
 Concen: 0.097 ppbv m
 RT: 17.68 min Scan# 4631
 Delta R.T. -0.02 min
 Lab File: VL035359.D
 Acq: 6 Aug 2020 21:10

Tgt Ion: 119 Resp: 44896
 Ion Ratio Lower Upper
 119 100
 134 29.4 21.1 31.7
 91 0.0 24.5 36.7#





#73

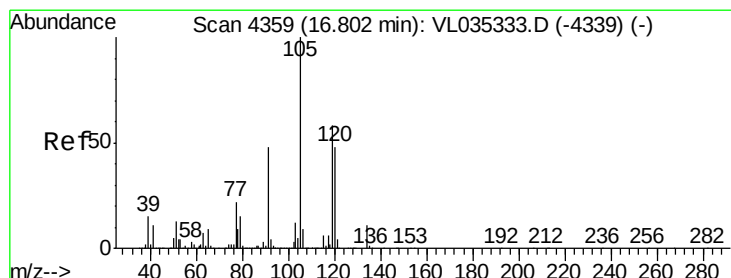
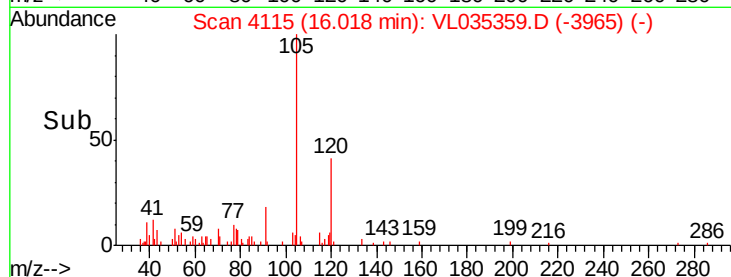
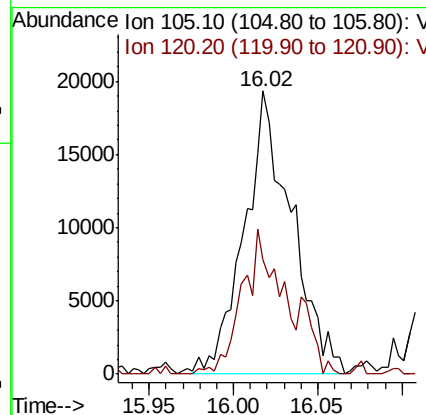
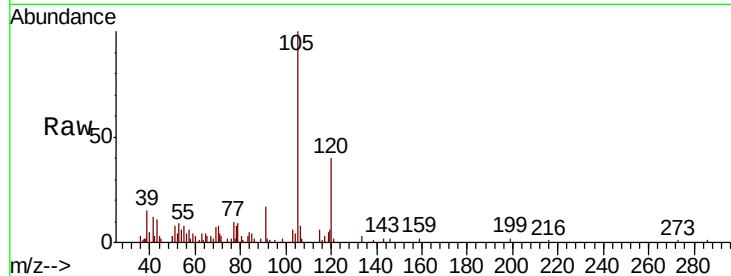
1,3,5-Trimethylbenzene
Concen: 0.118 ppbv m
RT: 16.02 min Scan# 4115
Delta R.T. -0.02 min
Lab File: VL035359.D
Acq: 6 Aug 2020 21:10

Instrument :
MSVOA_L
ClientSampleId :
3-ABOVE-GROUND

Tot Ion	Ratio	Lower	Upper
105	100		
120	40.4	36.9	55.3

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#74

1,2,4-Trimethylbenzene
Concen: 0.321 ppbv m
RT: 16.79 min Scan# 4356
Delta R.T. -0.01 min
Lab File: VL035359.D
Acq: 6 Aug 2020 21:10

Tgt Ion	Ratio	Lower	Upper
105	100		
120	37.7	38.5	57.7#
91	15.5	39.0	58.6#
77	20.7	17.8	26.6

