

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072120\
 Data File : VL035219.D
 Acq On : 21 Jul 2020 22:20
 Operator : SY/AP
 Sample : L3290-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-AMBIENT

Manual Integrations
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 7/23/2020 2:59:53 PM

Quant Time: Jul 22 01:48:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 07:05:23 2020
 QLast Update : Wed Jul 08 07:05:23 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1002294	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2373864	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2214984	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	1816924	10.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	38326	0.273	ppbv	95
3) Chlorodifluoromethane	2.94	51	40885m	0.369	ppbv	
4) Chloromethane	3.10	50	37301	0.598	ppbv	91
9) Propene	2.97	41	52828	1.263	ppbv #	83
11) Trichlorofluoromethane	3.92	101	47397	0.299	ppbv #	82
13) Ethanol	3.56	45	366230	27.493	ppbv	94
15) Acetone	3.81	43	989361m	7.291	ppbv	
17) tert-Butyl alcohol	4.28	59	15001m	0.125	ppbv	
19) Isopropyl Alcohol	3.93	45	135195m	1.651	ppbv	
20) Methylene Chloride	4.31	84	283519	4.802	ppbv	99
26) Hexane	5.67	57	173729	1.871	ppbv #	43
34) 2-Butanone	5.23	43	52143	0.412	ppbv	93
35) Carbon Tetrachloride	7.01	117	12825m	0.083	ppbv	
36) Benzene	6.89	78	33252m	0.194	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	63277m	0.213	ppbv	
50) 4-Methyl-2-Pentanone	8.76	43	30035m	0.165	ppbv	
52) Tetrachloroethene	11.24	164	14455m	0.225	ppbv	
53) Toluene	9.82	91	463535	2.556	ppbv	98
59) m/p-Xylene	13.00	91	33971m	0.156	ppbv	
74) 1,2,4-Trimethylbenzene	16.80	105	46986	0.180	ppbv #	68

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

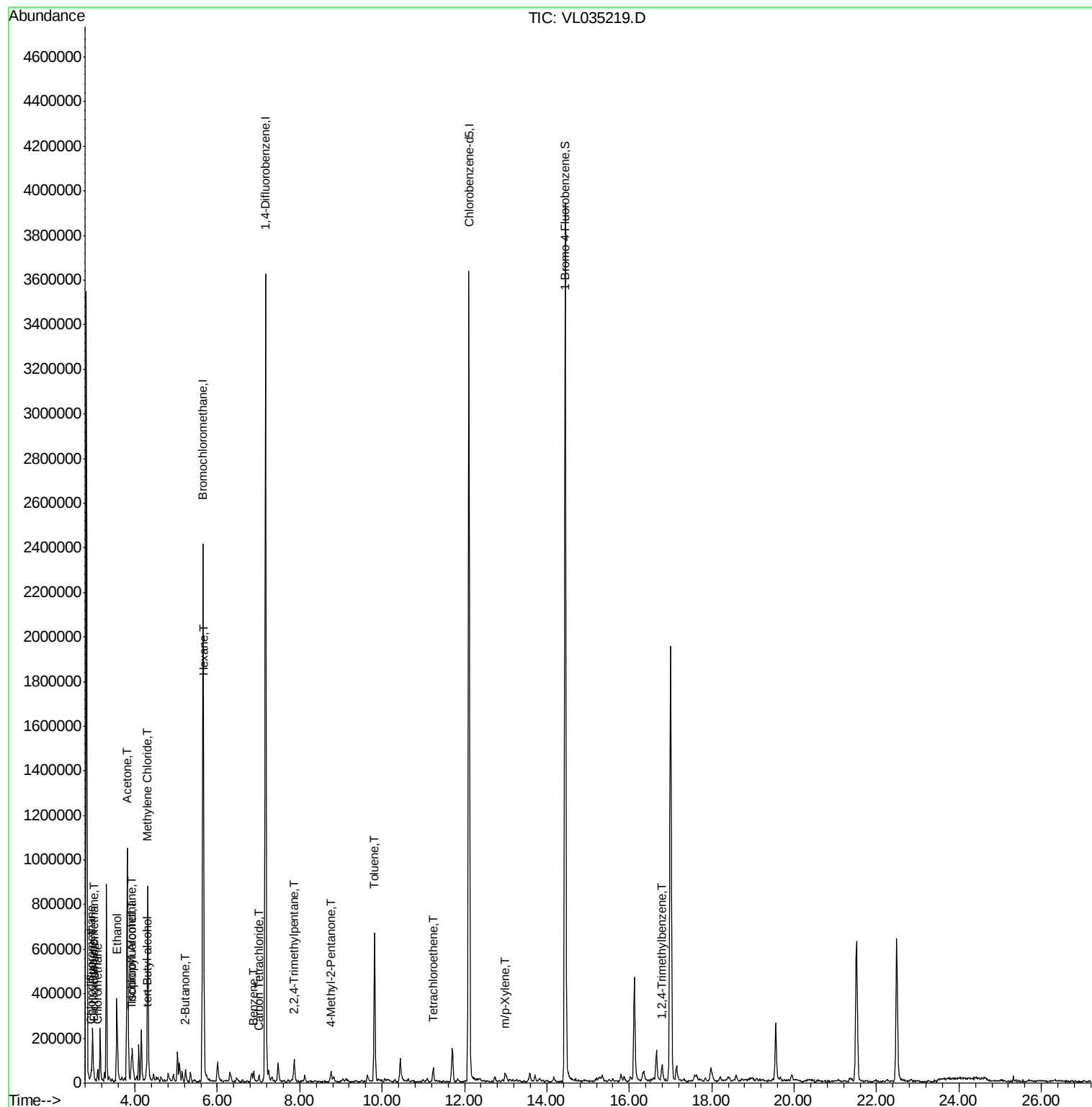
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL072120\
Data File : VL035219.D
Acq On : 21 Jul 2020 22:20
Operator : SY/AP
Sample : L3290-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

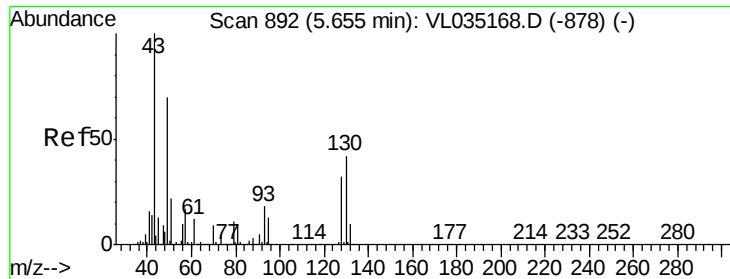
Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AMBIENT

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Quant Time: Jul 22 01:48:40 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul
QLast Update : Wed Jul 08 07:05:23 2020
Response via : Initial Calibration





#1

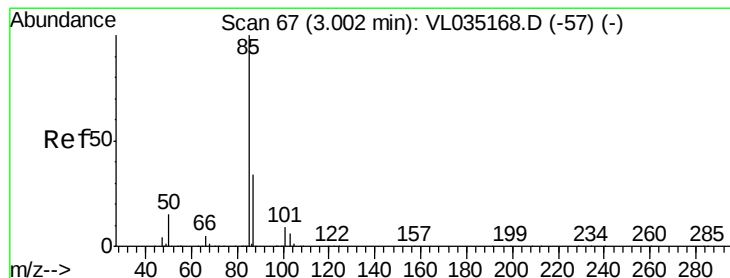
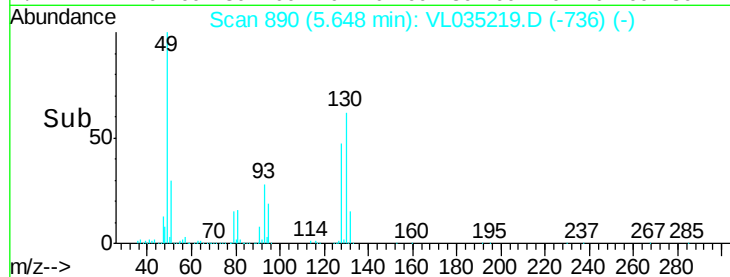
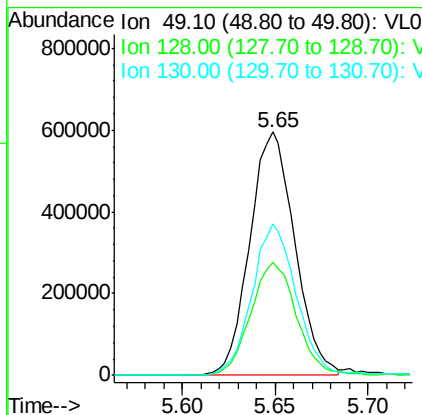
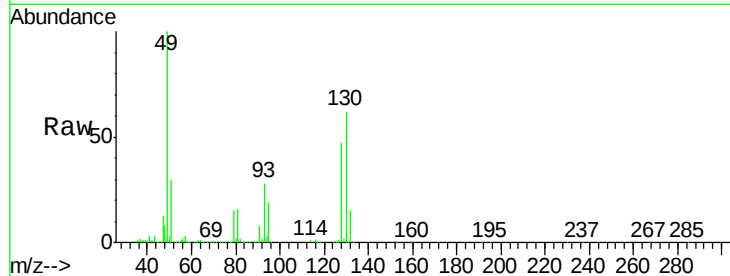
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 890
 Delta R.T. -0.01 min
 Lab File: VL035219.D
 Acq: 21 Jul 2020 22:20

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-AMBIENT

Tot Ion	Ratio	Lower	Upper
49	100		
128	47.5	23.8	71.4
130	62.1	29.9	89.8

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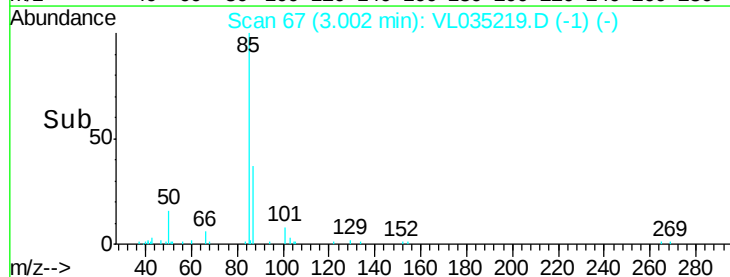
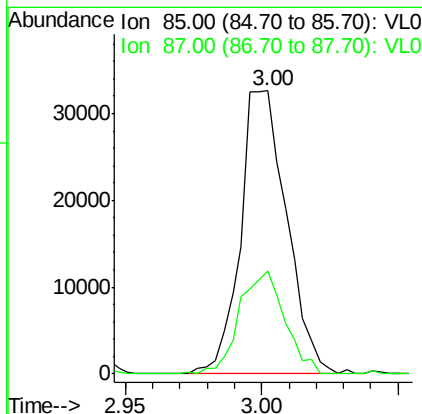
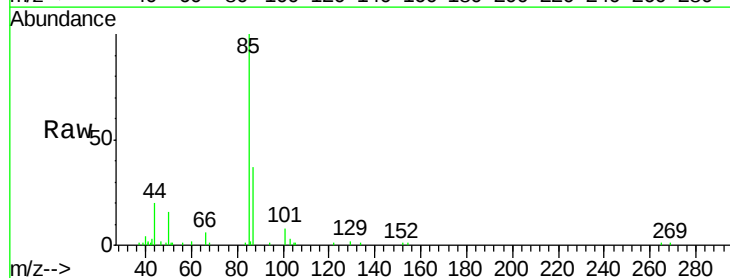
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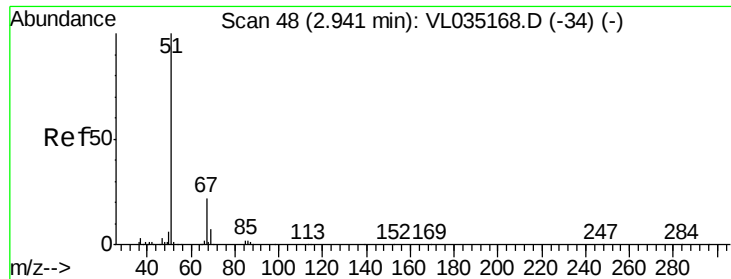


#2

Dichlorodifluoromethane
 Concen: 0.273 ppbv
 RT: 3.00 min Scan# 67
 Delta R.T. 0.00 min
 Lab File: VL035219.D
 Acq: 21 Jul 2020 22:20

Tgt Ion	Ratio	Lower	Upper
85	100		
87	36.5	27.0	40.6





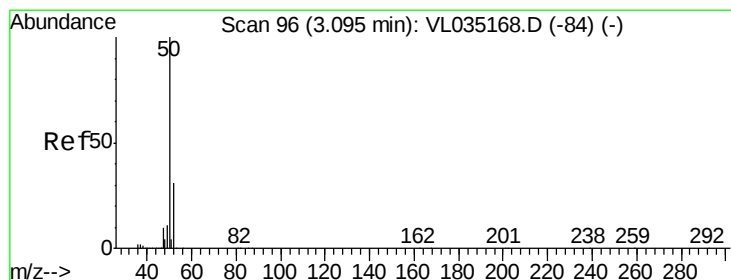
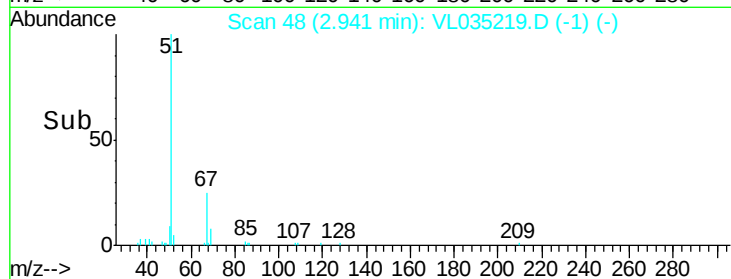
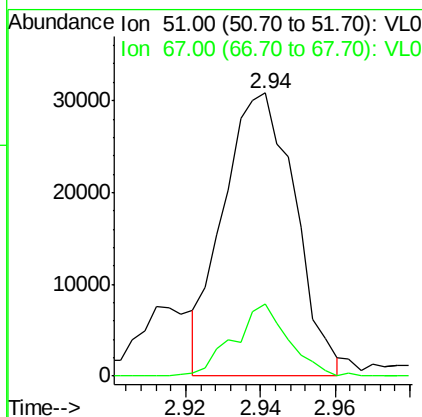
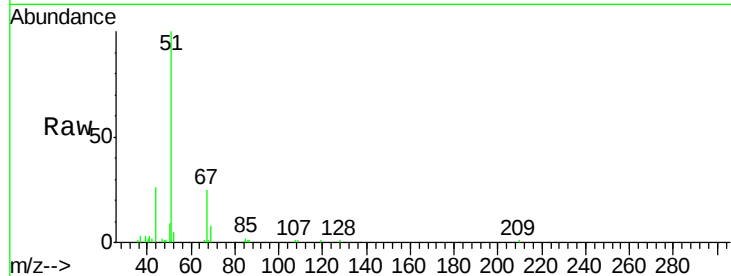
#3
Chlorodifluoromethane
Concen: 0.369 ppbv
RT: 2.94 min Scan# 48
Delta R.T. 0.00 min
Lab File: VL035219.D
Acq: 21 Jul 2020 22:20

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AMBIENT

Tot Ion	Ratio	Lower	Upper
51	100		
67	0.8	16.6	24.8#

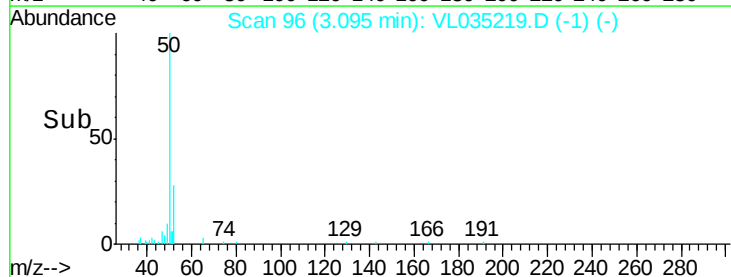
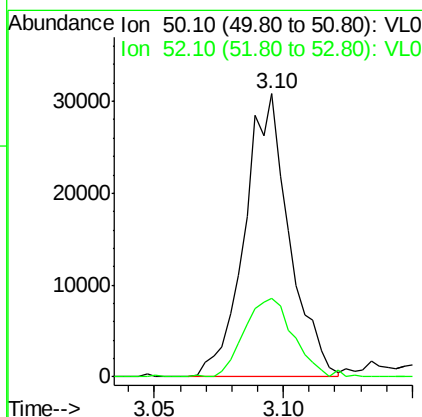
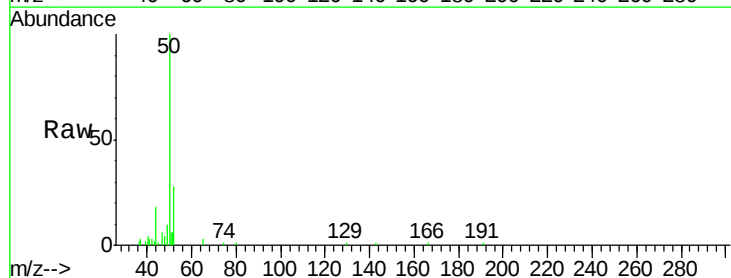
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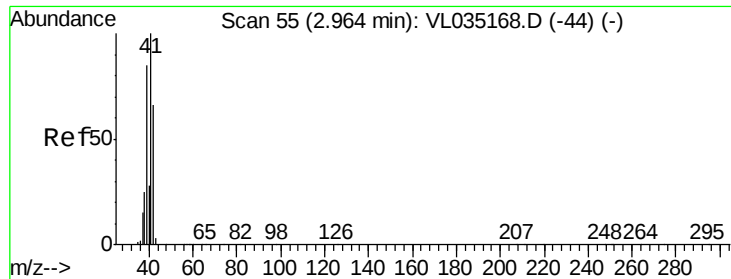
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#4
Chloromethane
Concen: 0.598 ppbv
RT: 3.10 min Scan# 96
Delta R.T. 0.00 min
Lab File: VL035219.D
Acq: 21 Jul 2020 22:20

Tgt Ion	Ratio	Lower	Upper
50	100		
52	26.5	25.0	37.6





#9

Propene

Concen: 1.263 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.01 min

Lab File: VL035219.D

Acq: 21 Jul 2020 22:20

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AMBIENT

Tot Ion: 41 Resp: 52828

Ion Ratio Lower Upper

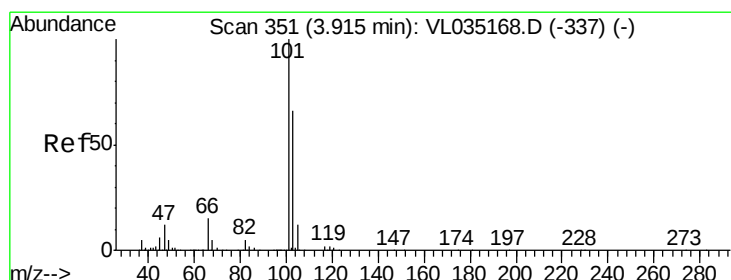
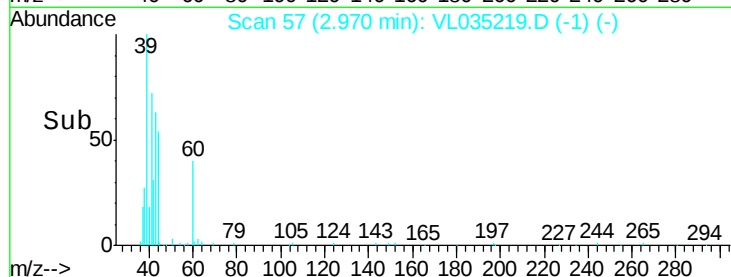
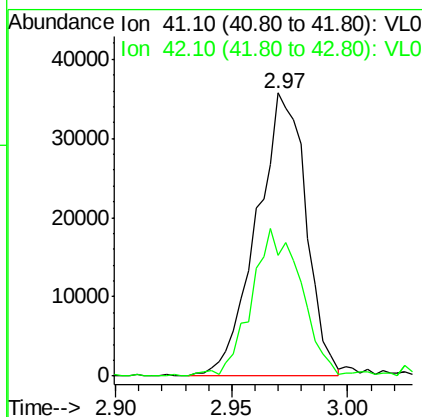
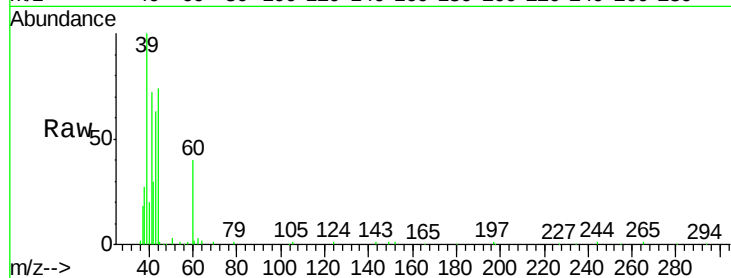
41 100

42 54.2 54.6 81.8#

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#11

Trichlorofluoromethane

Concen: 0.299 ppbv

RT: 3.92 min Scan# 351

Delta R.T. 0.00 min

Lab File: VL035219.D

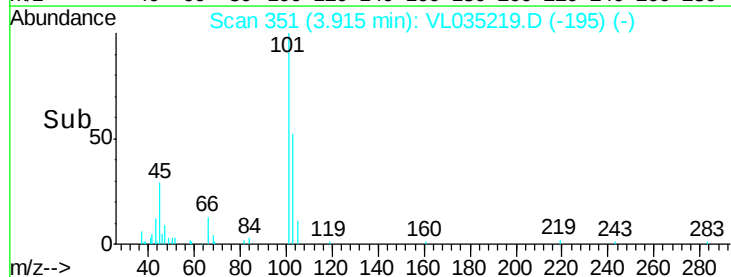
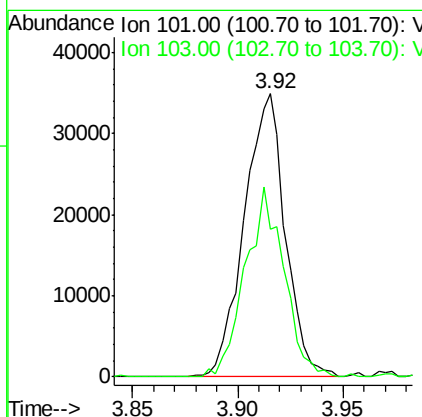
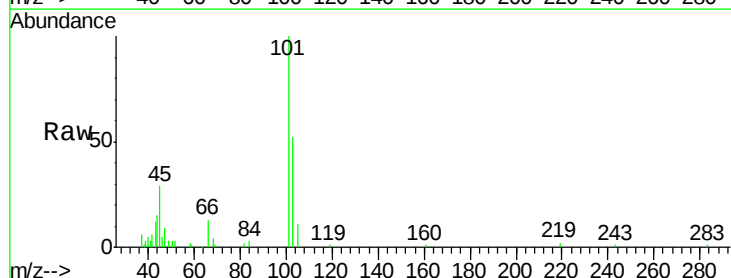
Acq: 21 Jul 2020 22:20

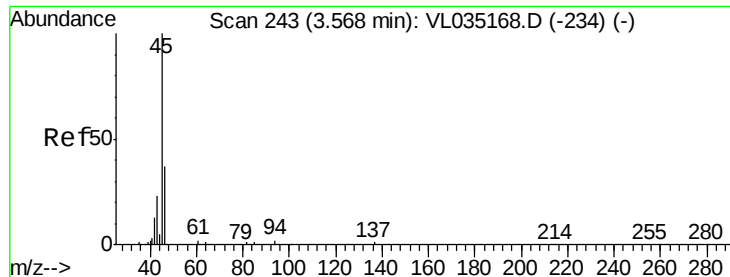
Tgt Ion: 101 Resp: 47397

Ion Ratio Lower Upper

101 100

103 52.3 53.1 79.7#





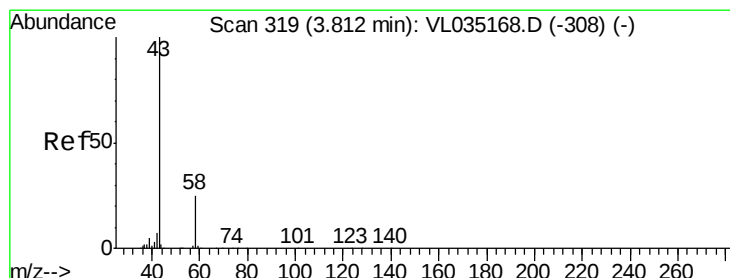
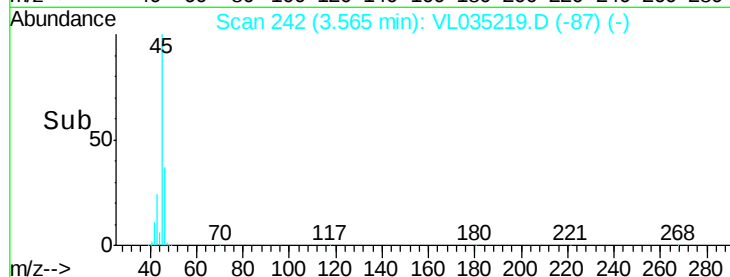
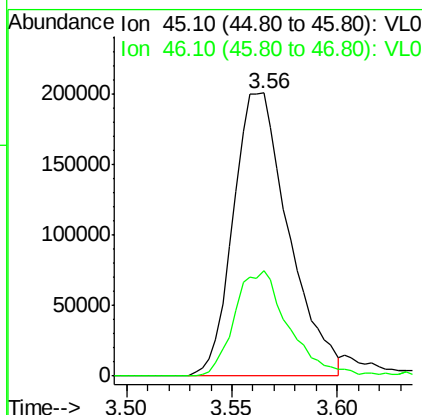
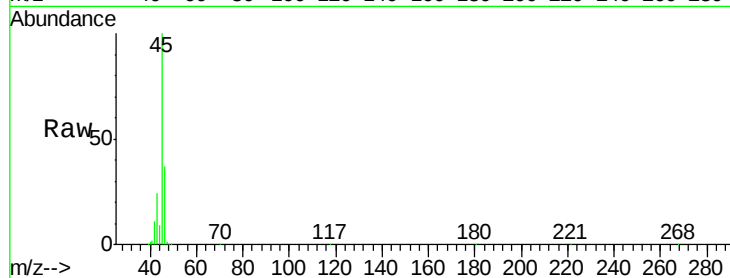
#13
Ethanol
Concen: 27.493 ppbv
RT: 3.56 min Scan# 242
Delta R.T. -0.00 min
Lab File: VL035219.D
Acq: 21 Jul 2020 22:20

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AMBIENT

Tot Ion	45	46	Ratio	Lower	Upper
366230	100	37.1		16.2	65.0

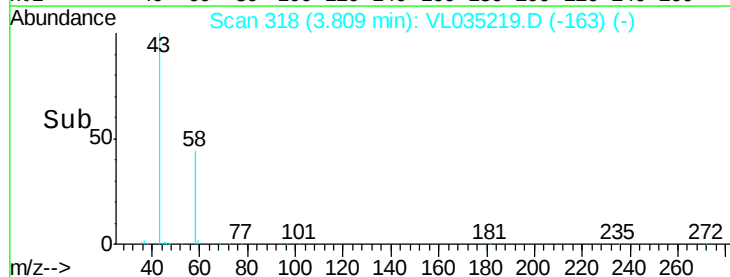
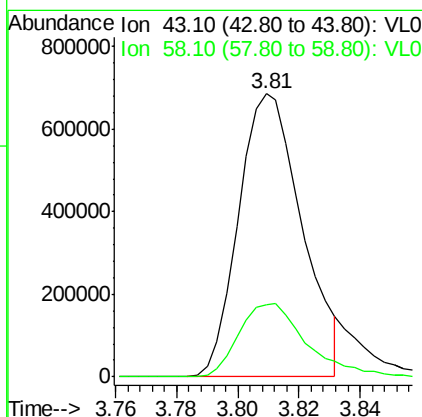
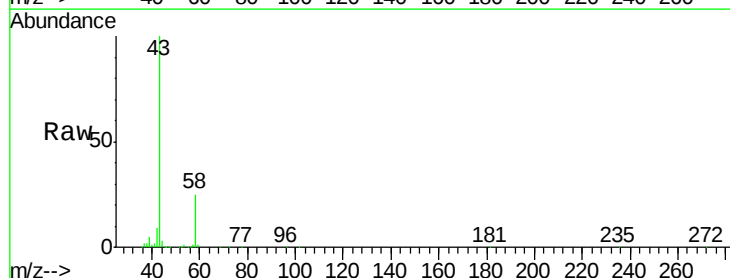
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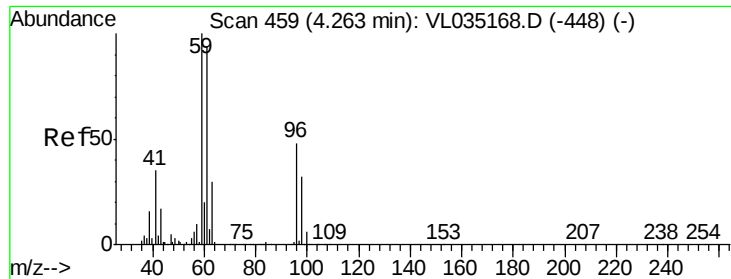
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#15
Acetone
Concen: 7.291 ppbv m
RT: 3.81 min Scan# 318
Delta R.T. -0.00 min
Lab File: VL035219.D
Acq: 21 Jul 2020 22:20

Tgt Ion	43	58	Ratio	Lower	Upper
989361	100	28.0		21.3	31.9





#17

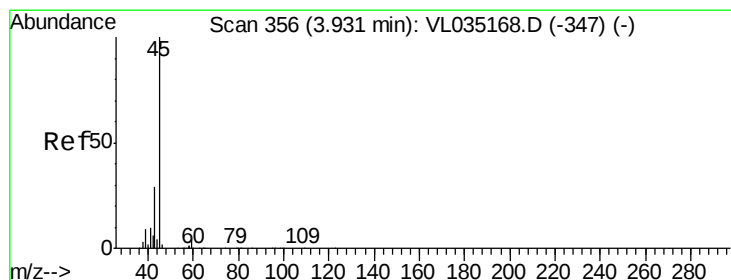
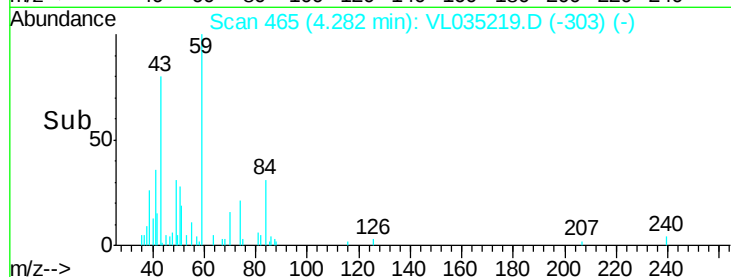
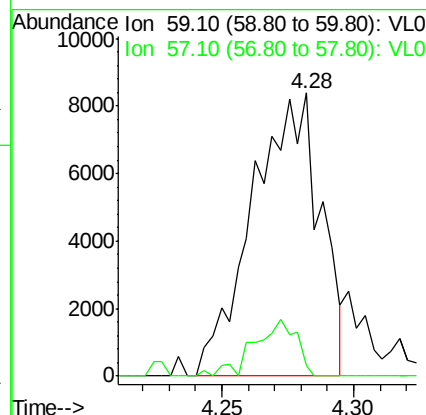
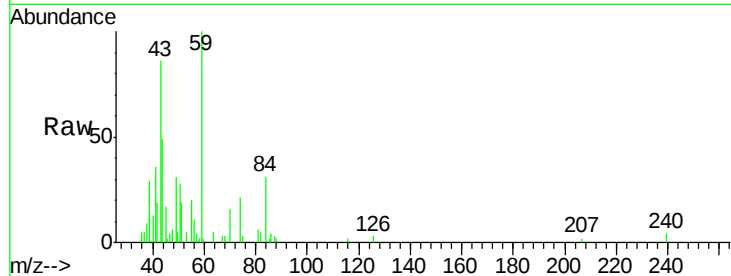
tert-Butyl alcohol
Concen: 0.125 ppbv m
RT: 4.28 min Scan# 465
Delta R.T. 0.02 min
Lab File: VL035219.D
Acq: 21 Jul 2020 22:20

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AMBIENT

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.6	12.8#

Manual Integrations
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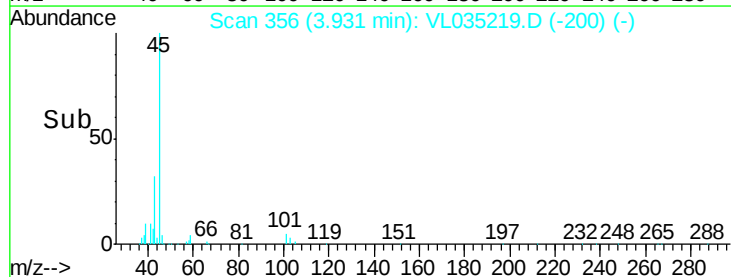
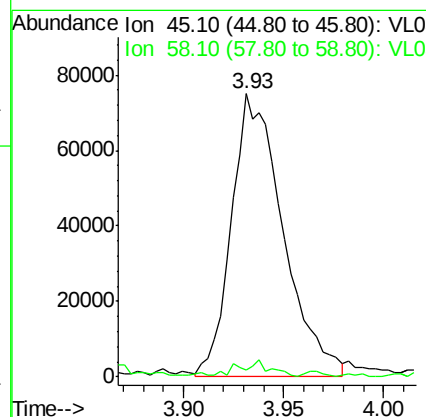
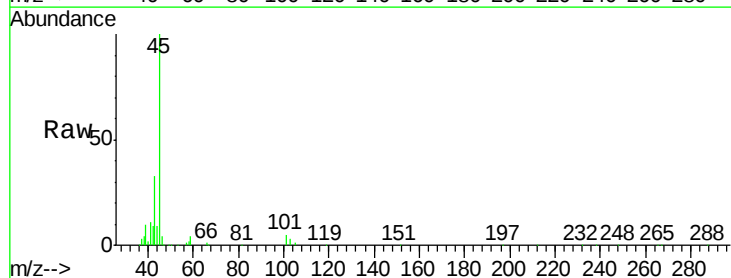
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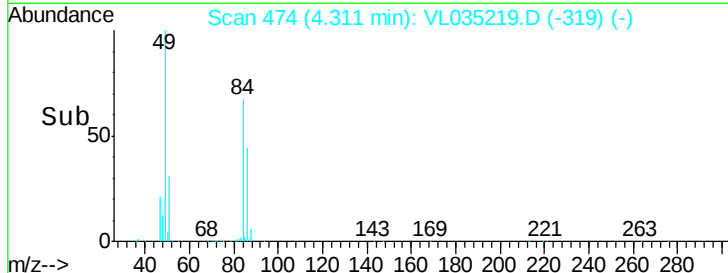
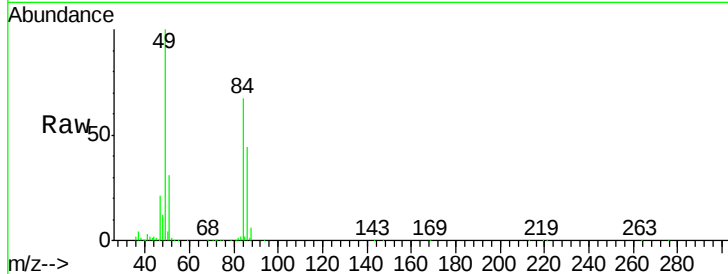
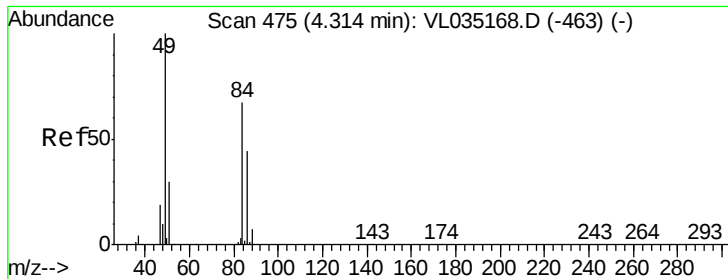


#19

Isopropyl Alcohol
Concen: 1.651 ppbv m
RT: 3.93 min Scan# 356
Delta R.T. 0.00 min
Lab File: VL035219.D
Acq: 21 Jul 2020 22:20

Tgt Ion	Ratio	Lower	Upper
45	100		
58	0.0	2.1	3.1#





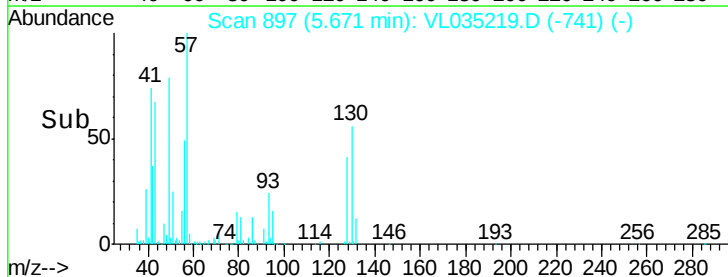
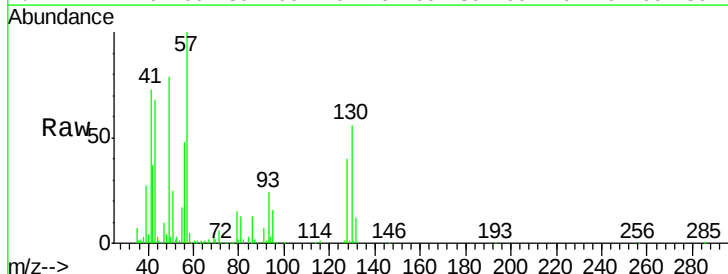
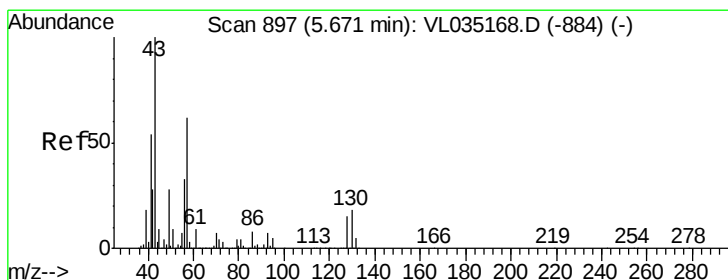
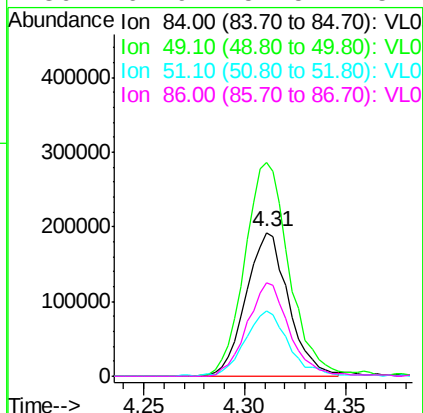
#20
Methvlene Chloride
Concen: 4.802 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.00 min
Lab File: VL035219.D
Acq: 21 Jul 2020 22:20

Tot Ion	84	Resp	283519
Ion	Ratio	Lower	Upper
84	100		
49	148.3	119.4	179.0
51	44.8	36.6	55.0
86	64.9	52.5	78.7

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AMBIENT

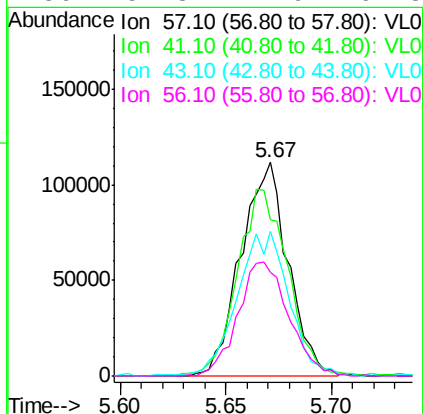
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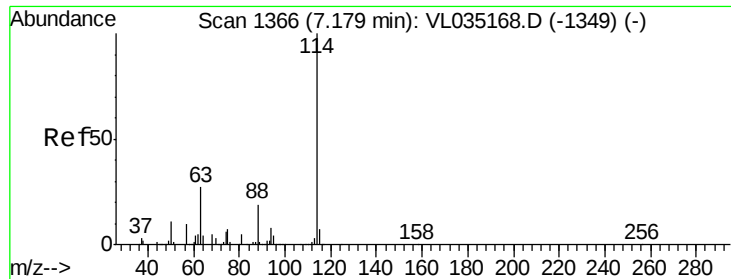
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#26
Hexane
Concen: 1.871 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL035219.D
Acq: 21 Jul 2020 22:20

Tgt Ion	57	Resp	173729
Ion	Ratio	Lower	Upper
57	100		
41	93.3	72.9	109.3
43	74.8	179.5	269.3#
56	57.3	42.9	64.3





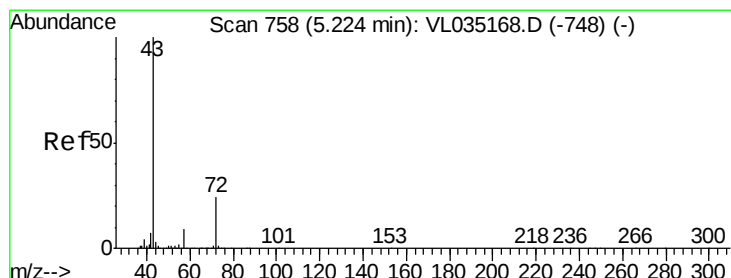
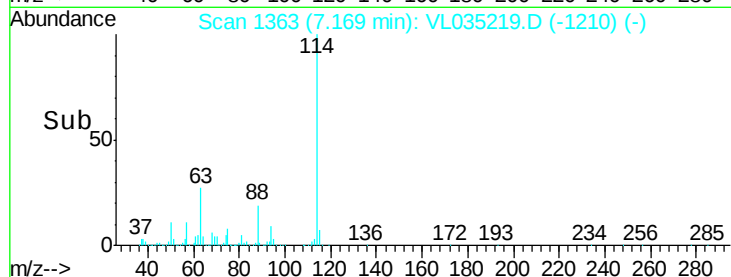
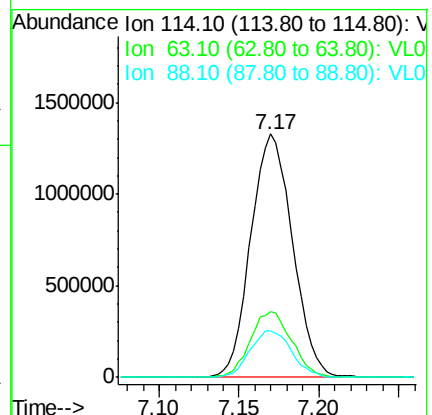
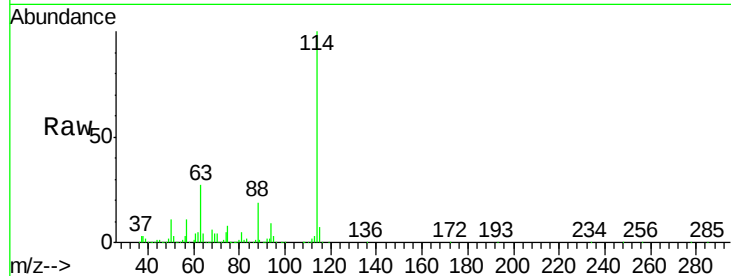
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.01 min
 Lab File: VL035219.D
 Acq: 21 Jul 2020 22:20

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-AMBIENT

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.1	22.0	33.0
88	19.2	15.4	23.0

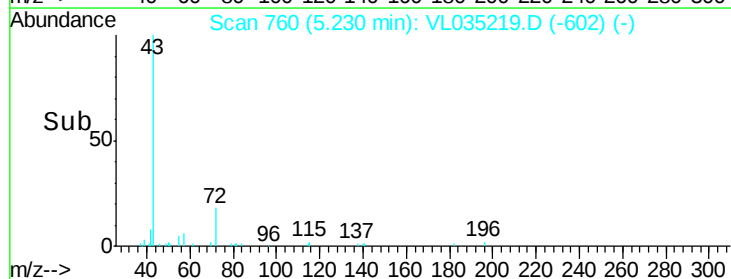
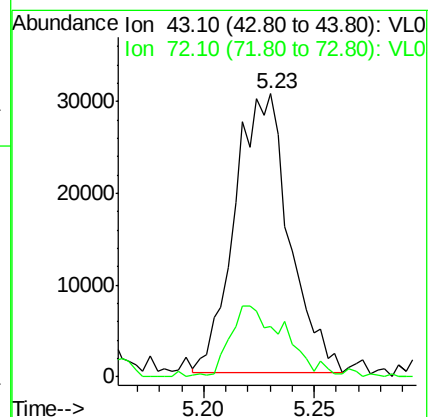
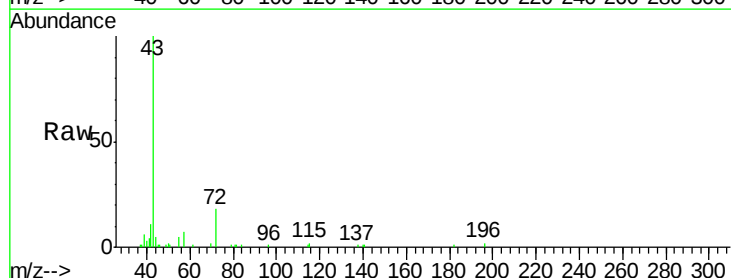
Manual Integrations
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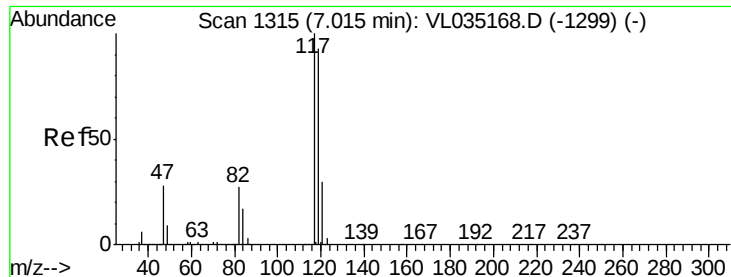
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#34
 2-Butanone
 Concen: 0.412 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. 0.01 min
 Lab File: VL035219.D
 Acq: 21 Jul 2020 22:20

Tgt Ion	Ratio	Lower	Upper
43	100		
72	26.6	18.6	28.0





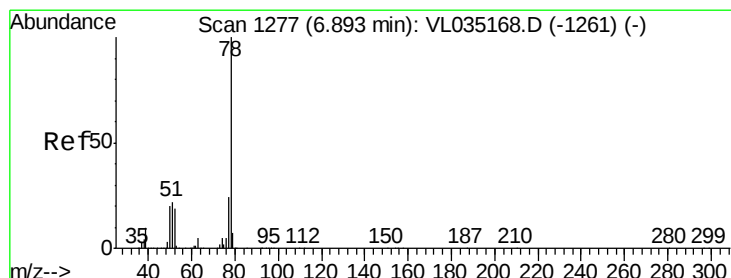
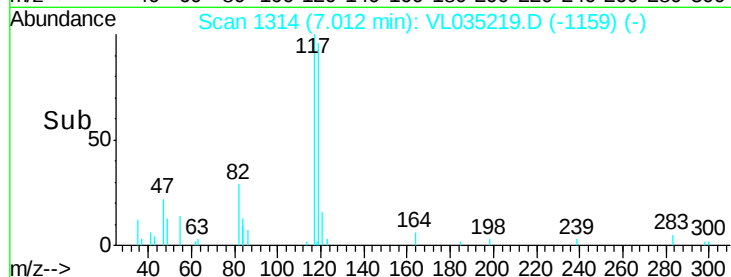
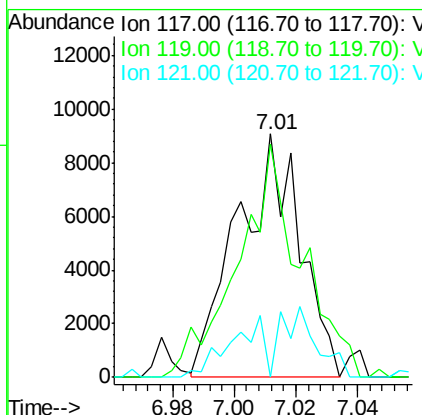
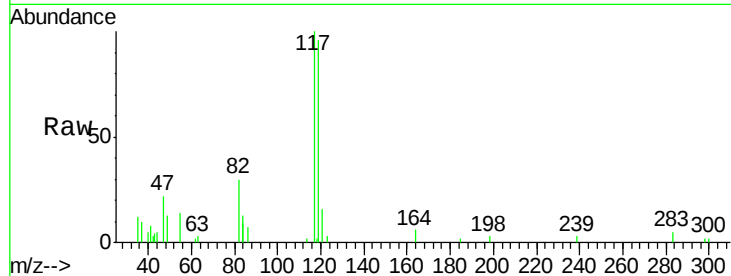
#35
Carbon Tetrachloride
Concen: 0.083 ppbv m
RT: 7.01 min Scan# 1314
Delta R.T. -0.00 min
Lab File: VL035219.D
Acq: 21 Jul 2020 22:20

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AMBIENT

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.7	74.8	112.2
121	0.0	24.2	36.2#

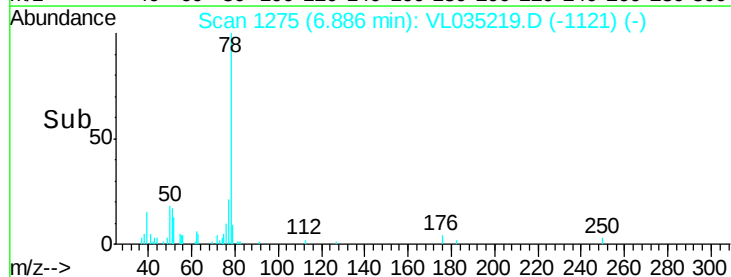
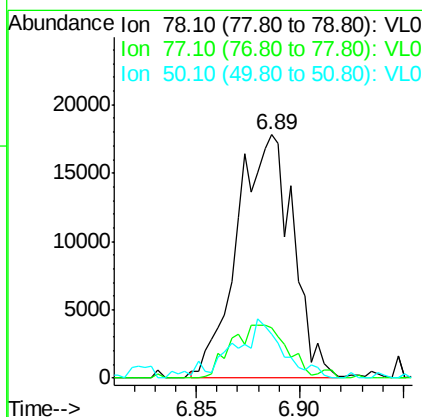
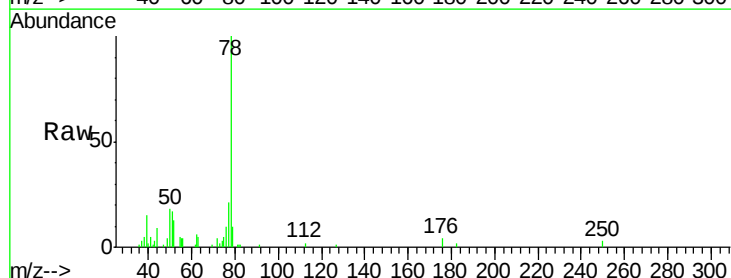
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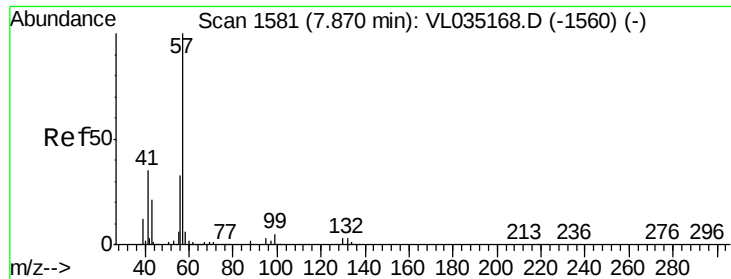
MMDadoda
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#36
Benzene
Concen: 0.194 ppbv m
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL035219.D
Acq: 21 Jul 2020 22:20

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.9	19.3	28.9
50	18.1	16.0	24.0





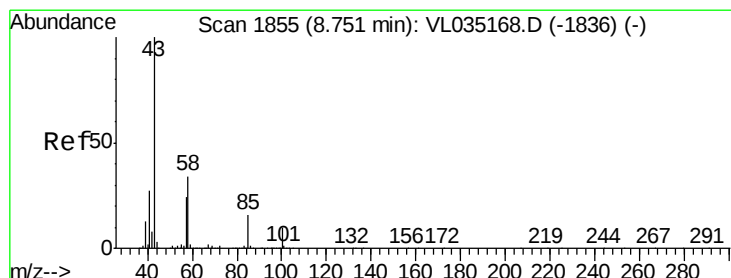
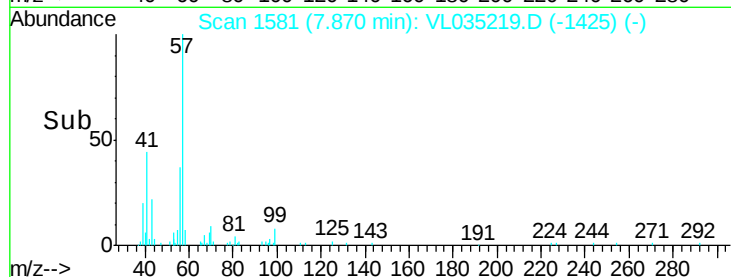
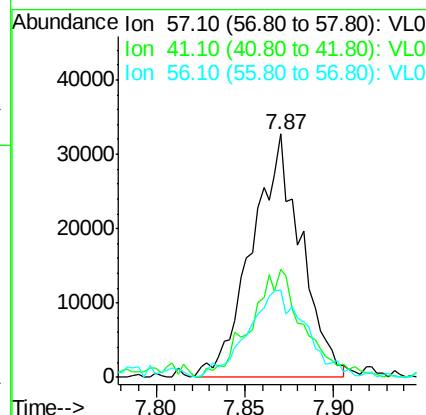
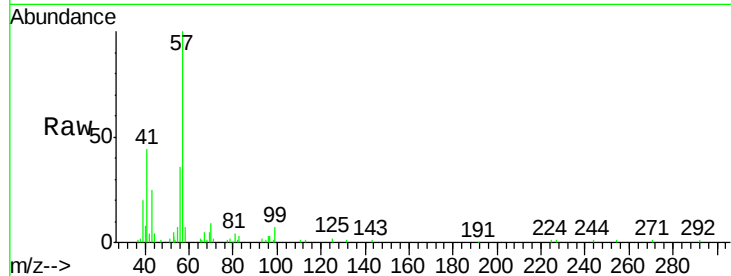
#44
 2,2,4-Trimethylpentane
 Concen: 0.213 ppbv m
 RT: 7.87 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VL035219.D
 Acq: 21 Jul 2020 22:20

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-AMBIENT

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.0	40.6#
56	0.0	25.5	38.3#

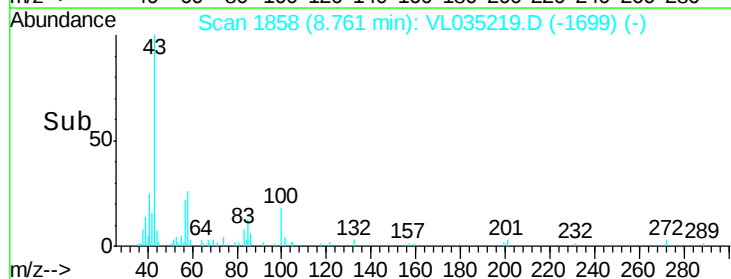
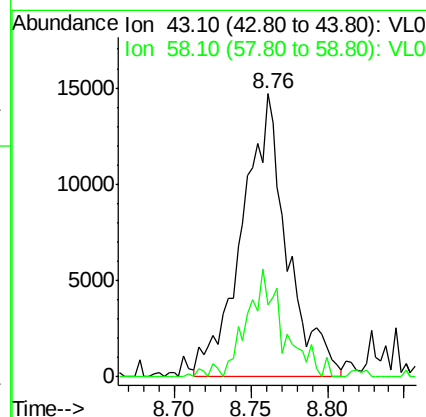
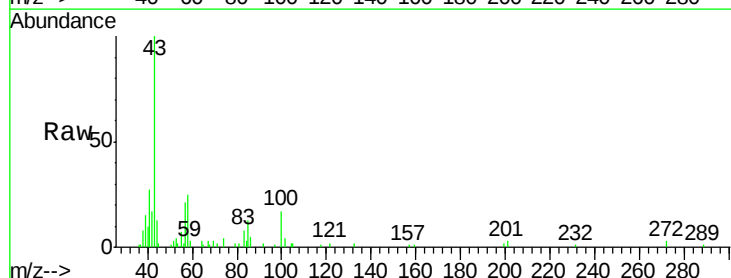
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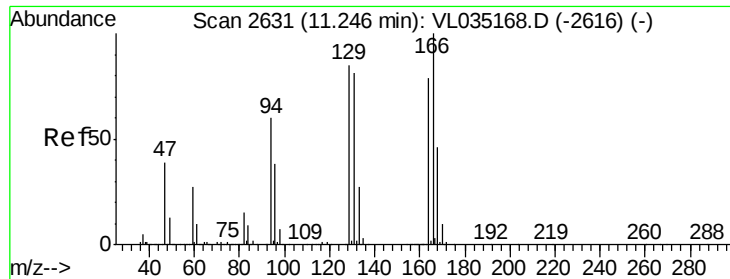
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#50
 4-Methyl-2-Pentanone
 Concen: 0.165 ppbv m
 RT: 8.76 min Scan# 1858
 Delta R.T. 0.01 min
 Lab File: VL035219.D
 Acq: 21 Jul 2020 22:20

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.4	44.2#





#52

Tetrachloroethene

Concen: 0.225 ppbv m

RT: 11.24 min Scan# 2630

Delta R.T. -0.00 min

Lab File: VL035219.D

Acq: 21 Jul 2020 22:20

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AMBIENT

Tot Ion:164 Resp: 14455

Ion Ratio Lower Upper

164 100

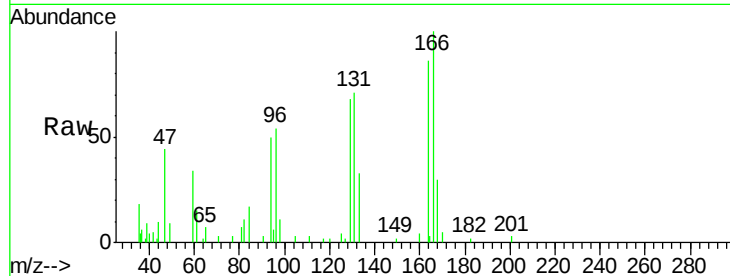
166 116.1 100.7 151.1

129 78.5 85.8 128.6#

131 81.9 82.0 123.0#

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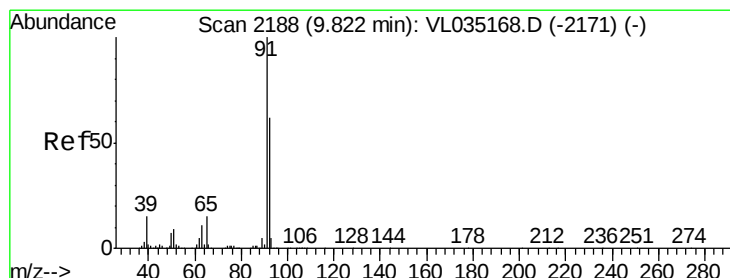
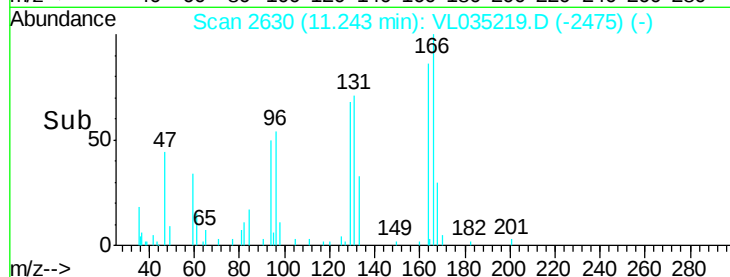
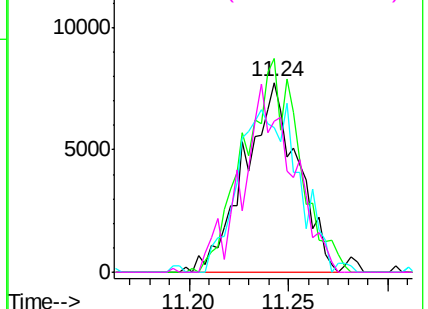


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.556 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.00 min

Lab File: VL035219.D

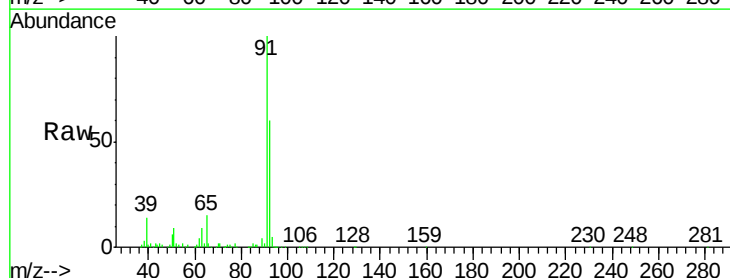
Acq: 21 Jul 2020 22:20

Tgt Ion: 91 Resp: 463535

Ion Ratio Lower Upper

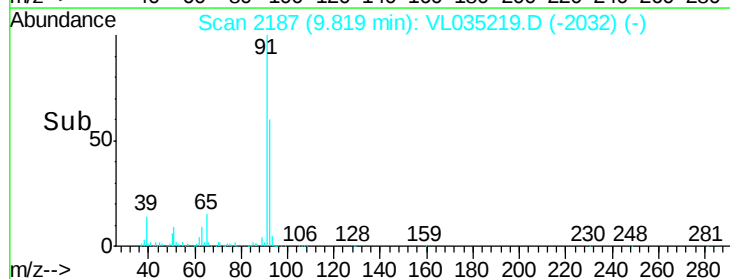
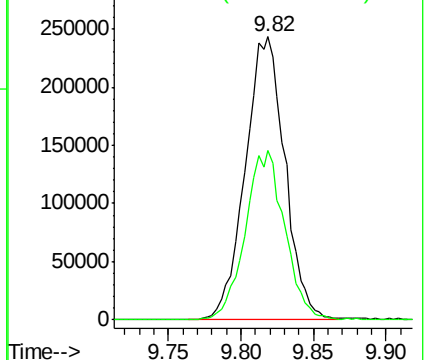
91 100

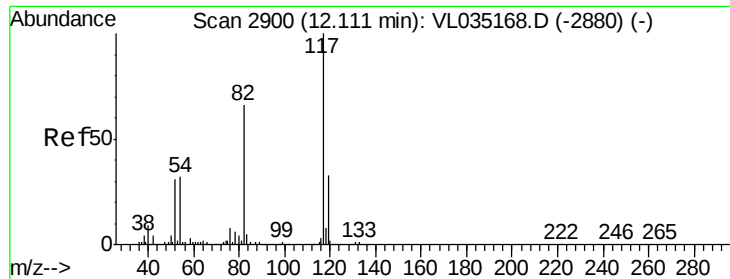
92 59.2 48.4 72.6



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: 12.11 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VL035219.D

Acq: 21 Jul 2020 22:20

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AMBIENT

Tot Ion:117 Resp: 2214984

Ion Ratio Lower Upper

117 100

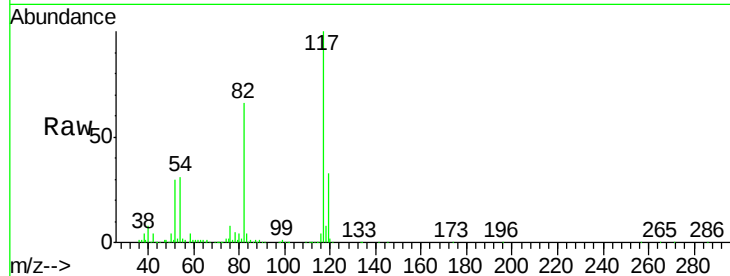
82 67.8 52.3 78.5

119 32.5 24.9 37.3

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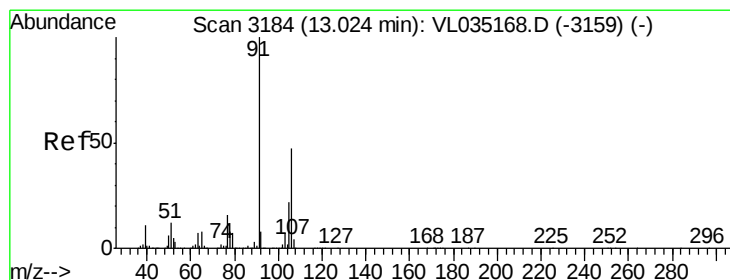
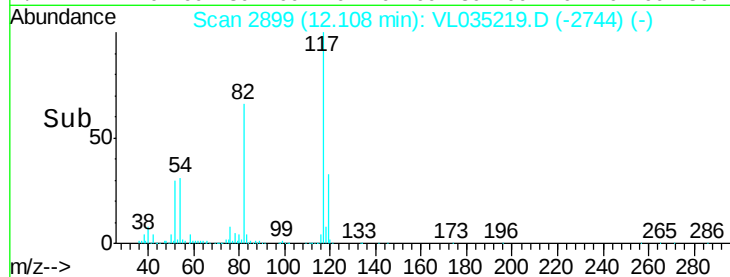
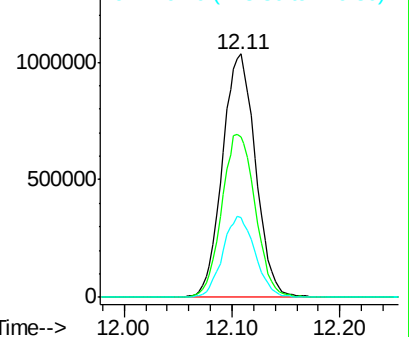
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#59

m/p-Xylene

Concen: 0.156 ppbv m

RT: 13.00 min Scan# 3175

Delta R.T. -0.03 min

Lab File: VL035219.D

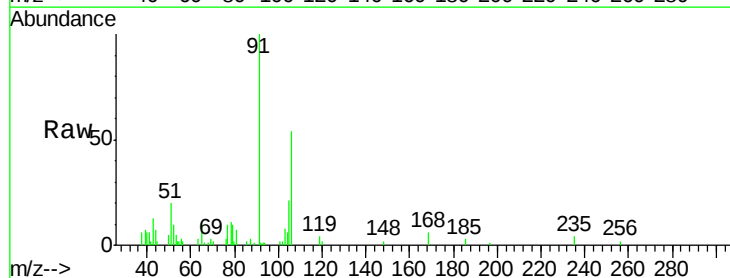
Acq: 21 Jul 2020 22:20

Tgt Ion: 91 Resp: 33971

Ion Ratio Lower Upper

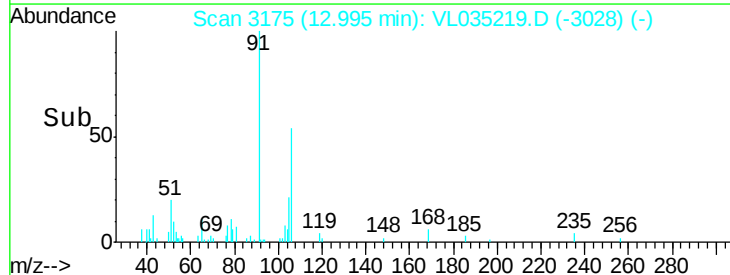
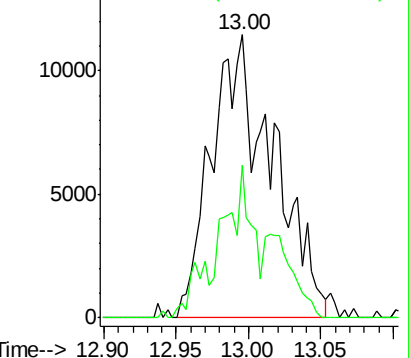
91 100

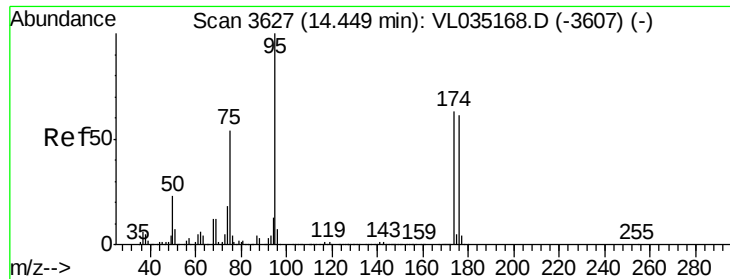
106 0.0 36.2 54.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





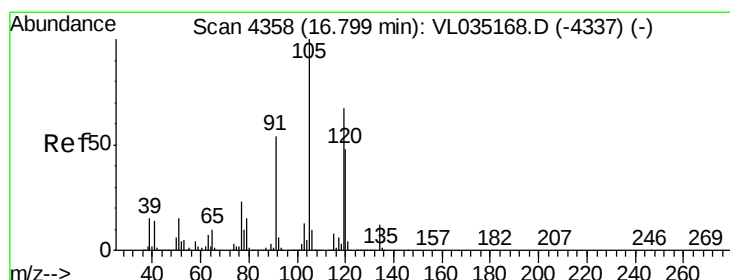
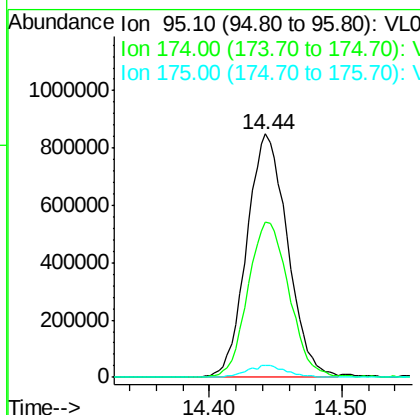
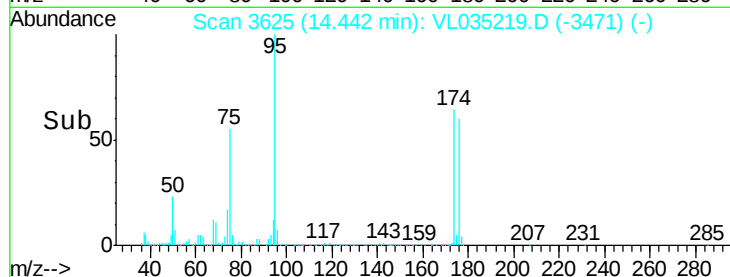
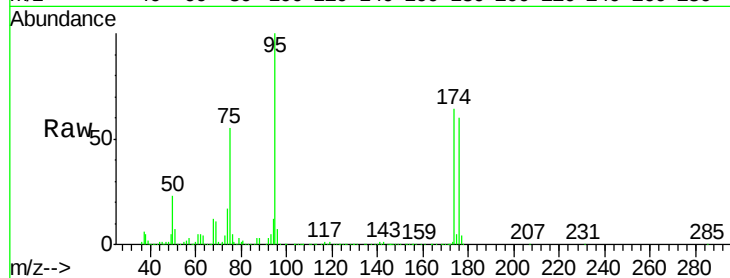
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.098 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. -0.01 min
 Lab File: VL035219.D
 Acq: 21 Jul 2020 22:20

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-AMBIENT

Tot Ion: 95 Resp: 1816924
 Ion Ratio Lower Upper
 95 100
 174 64.6 52.2 78.2
 175 4.8 4.0 6.0

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.180 ppbv
 RT: 16.80 min Scan# 4357
 Delta R.T. -0.00 min
 Lab File: VL035219.D
 Acq: 21 Jul 2020 22:20

Tgt Ion: 105 Resp: 46986
 Ion Ratio Lower Upper
 105 100
 120 39.1 38.6 57.8
 91 17.9 43.6 65.4#
 77 9.5 18.3 27.5#

