

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092418\
 Data File : VL032528.D
 Acq On : 25 Sep 2018 3:39
 Operator : SY/AP
 Sample : J5039-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-AMBIENT

Manual Integrations
 APPROVED

MMDadoda
 9/27/2018 12:31:35 PM

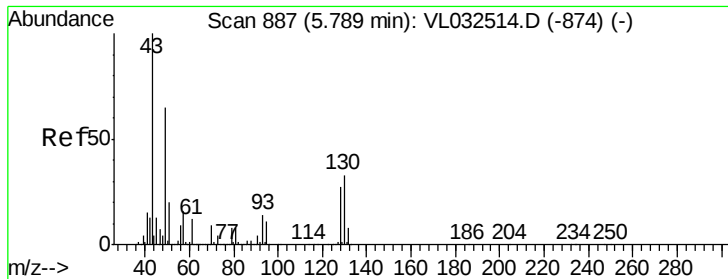
Quant Time: Sep 26 17:43:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 26 17:43:47 2018
 QLast Update : Tue Sep 25 05:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1372741	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2981866	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	2923976	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2191727	9.94	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	104929	0.826	ppbv	93
3) Chlorodifluoromethane	3.03	51	55204m	0.484	ppbv	
4) Chloromethane	3.19	50	32944	0.495	ppbv	90
9) Propene	3.26	41	66961	1.352	ppbv	99
11) Trichlorofluoromethane	4.02	101	40710	0.270	ppbv	88
13) Ethanol	3.67	45	133513	8.968	ppbv	99
15) Acetone	3.92	43	811734	6.737	ppbv	99
19) Isopropyl Alcohol	4.06	45	76801	0.915	ppbv #	1
20) Methylene Chloride	4.43	84	135135	2.316	ppbv	95
26) Hexane	5.80	57	432674	3.276	ppbv #	45
34) 2-Butanone	5.36	43	47863m	0.270	ppbv	
35) Carbon Tetrachloride	7.16	117	15281	0.074	ppbv	98
36) Benzene	7.03	78	37590	0.156	ppbv #	88
52) Tetrachloroethene	11.41	164	4787m	0.057	ppbv	
53) Toluene	9.98	91	463286	1.578	ppbv	97

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032528.D

Acq: 25 Sep 2018 3:39

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AMBIENT

Tot Ion: 49 Resp: 1372741

Ion Ratio Lower Upper

49 100

128 43.4 20.7 62.1

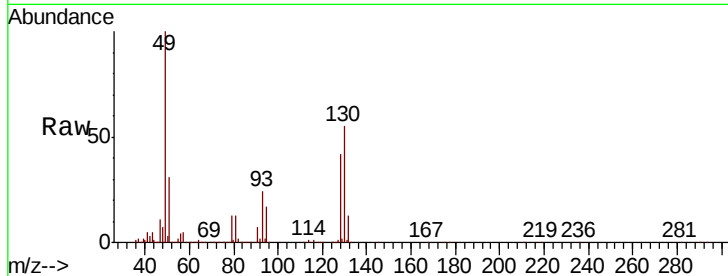
130 55.4 26.6 79.7

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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

1000000

800000

600000

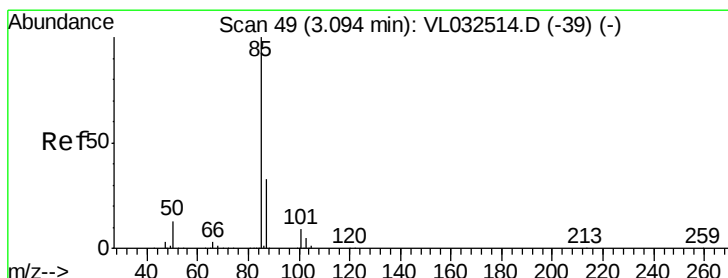
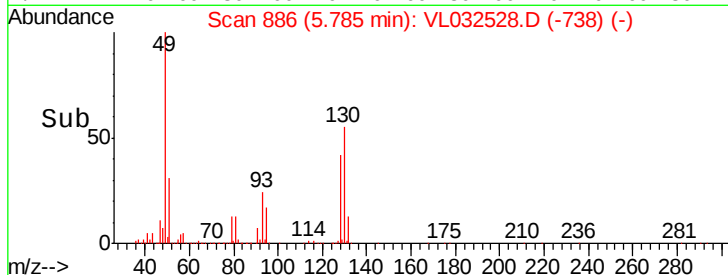
400000

200000

0

5.70 5.75 5.80 5.85

Time-->



#2

Dichlorodifluoromethane

Concen: 0.826 ppbv

RT: 3.09 min Scan# 48

Delta R.T. -0.02 min

Lab File: VL032528.D

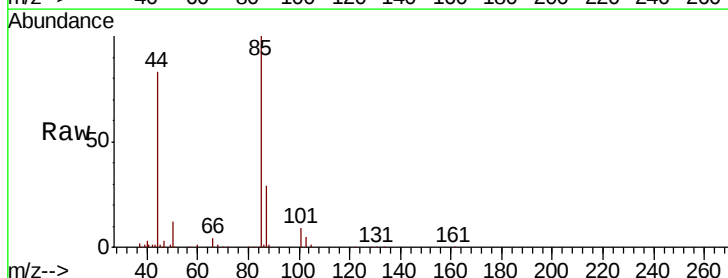
Acq: 25 Sep 2018 3:39

Tgt Ion: 85 Resp: 104929

Ion Ratio Lower Upper

85 100

87 28.9 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

100000

80000

60000

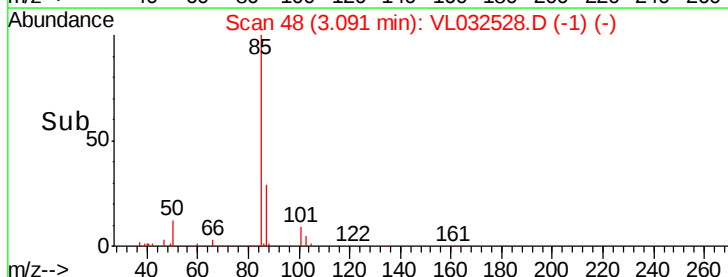
40000

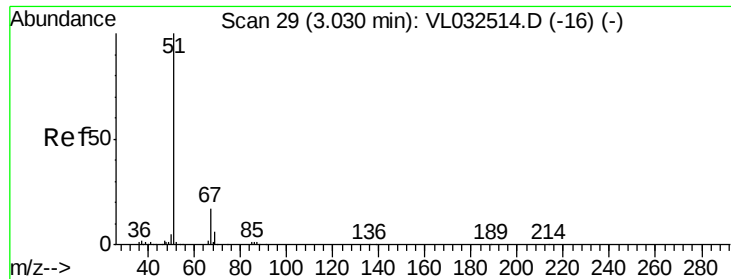
20000

0

3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 0.484 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.02 min

Lab File: VL032528.D

Acq: 25 Sep 2018 3:39

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AMBIENT

Tot Ion: 51 Resp: 55204

Ion Ratio Lower Upper

51 100

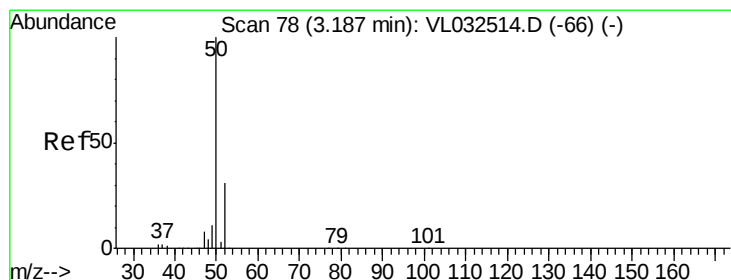
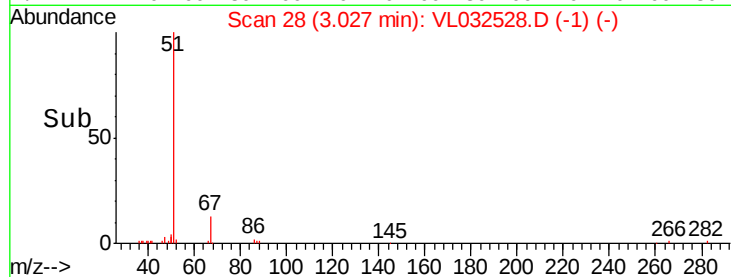
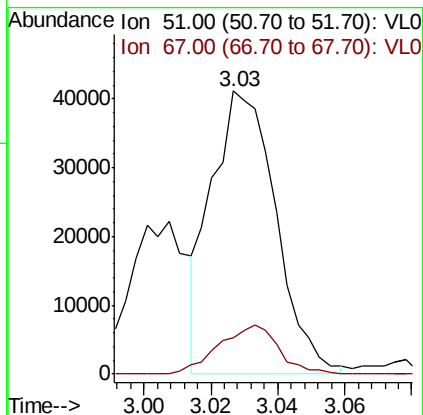
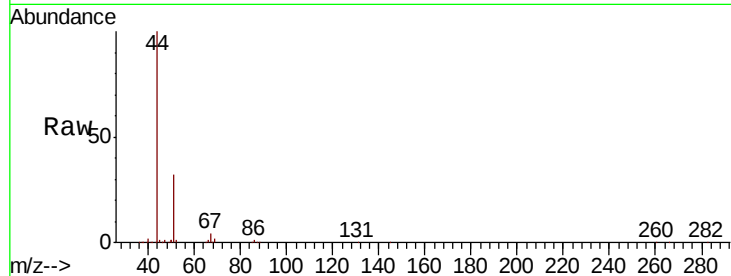
67 16.1 13.8 20.8

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#4

Chloromethane

Concen: 0.495 ppbv

RT: 3.19 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL032528.D

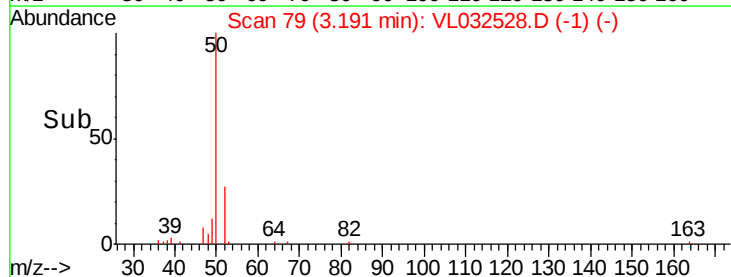
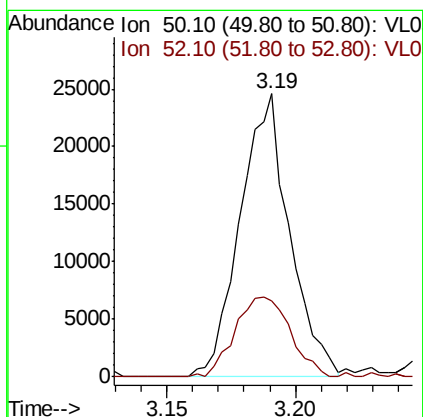
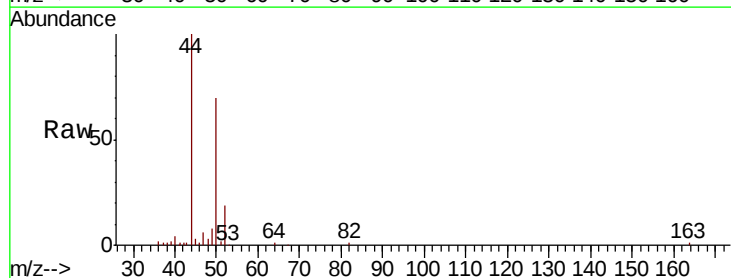
Acq: 25 Sep 2018 3:39

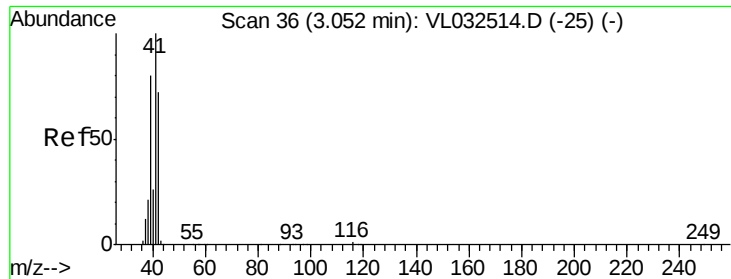
Tgt Ion: 50 Resp: 32944

Ion Ratio Lower Upper

50 100

52 26.7 25.6 38.4





#9

Propene

Concen: 1.352 ppbv

RT: 3.26 min Scan# 99

Delta R.T. 0.19 min

Lab File: VL032528.D

Acq: 25 Sep 2018 3:39

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AMBIENT

Tot Ion: 41 Resp: 66961

Ion Ratio Lower Upper

41 100

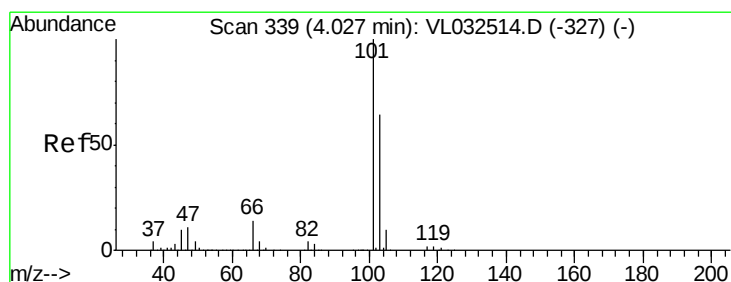
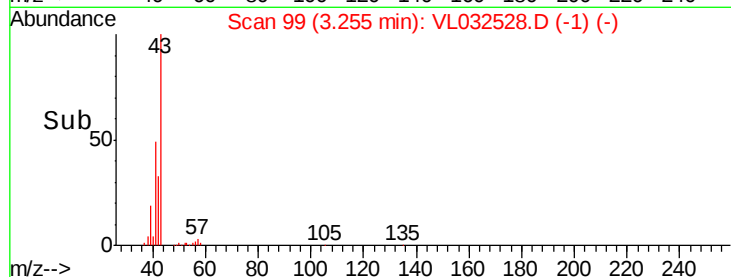
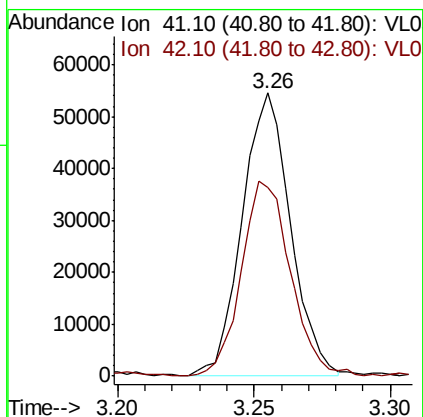
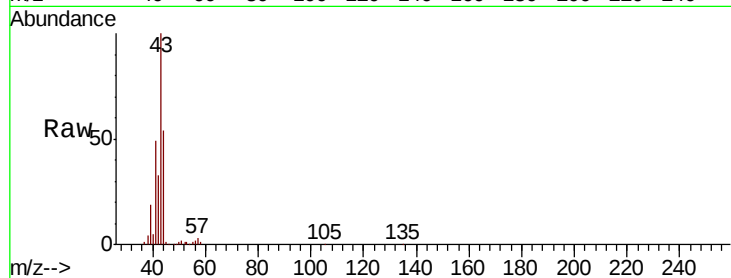
42 70.1 56.6 84.8

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#11

Trichlorofluoromethane

Concen: 0.270 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.02 min

Lab File: VL032528.D

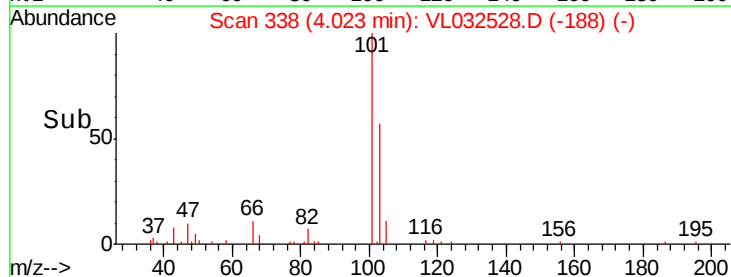
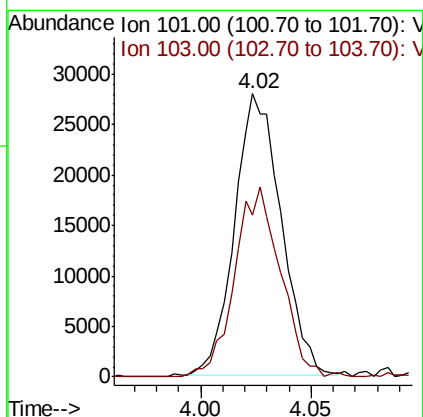
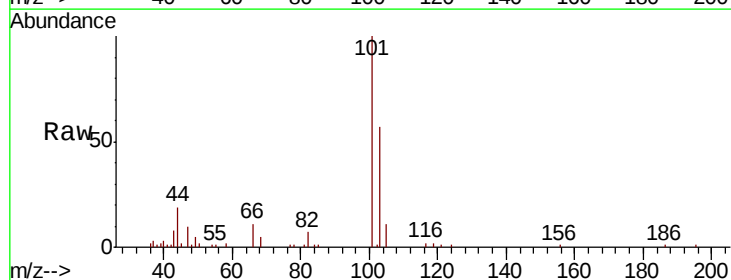
Acq: 25 Sep 2018 3:39

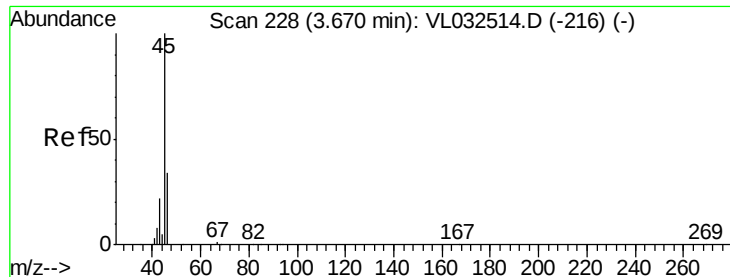
Tgt Ion: 101 Resp: 40710

Ion Ratio Lower Upper

101 100

103 56.2 52.8 79.2





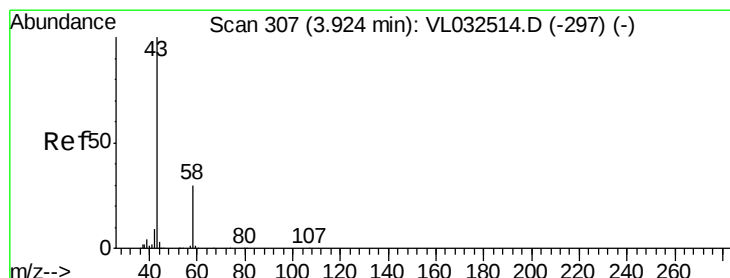
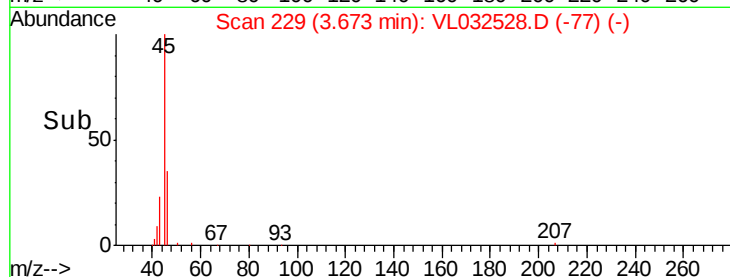
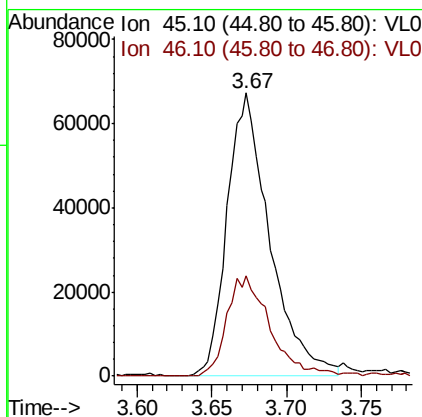
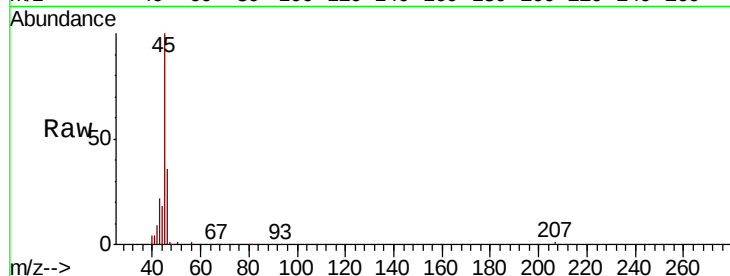
#13
Ethanol
Concen: 8.968 ppbv
RT: 3.67 min Scan# 229
Delta R.T. -0.01 min
Lab File: VL032528.D
Acq: 25 Sep 2018 3:39

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AMBIENT

Tot Ion	45	Resp	133513
Ion Ratio	100	Lower	Upper
45	100		
46	35.9	14.2	56.8

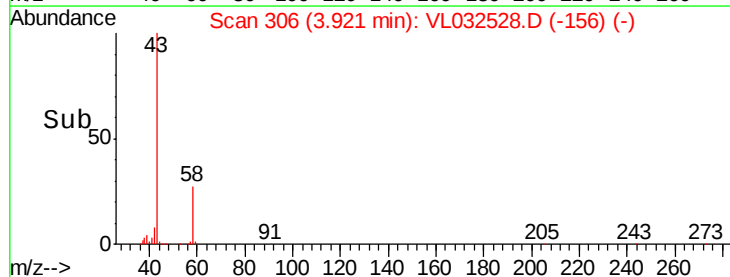
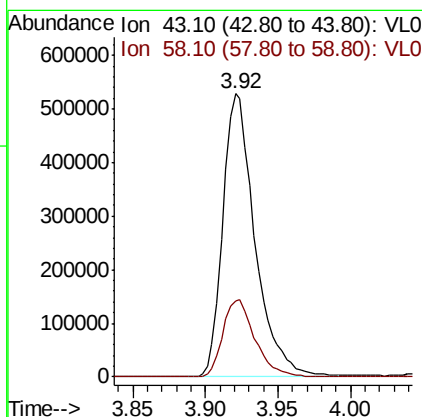
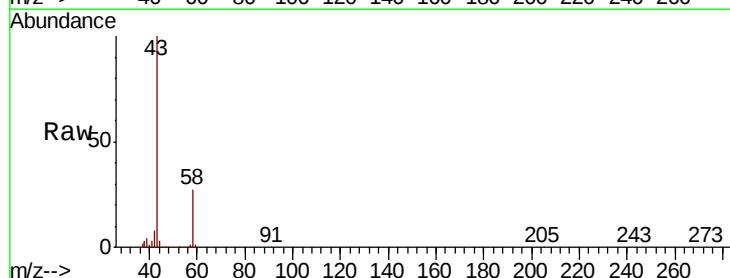
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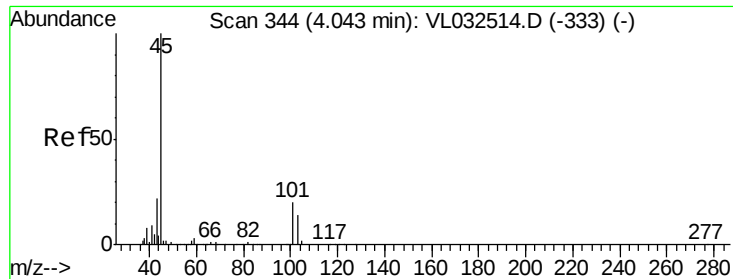
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#15
Acetone
Concen: 6.737 ppbv
RT: 3.92 min Scan# 306
Delta R.T. -0.02 min
Lab File: VL032528.D
Acq: 25 Sep 2018 3:39

Tgt Ion	43	Resp	811734
Ion Ratio	100	Lower	Upper
43	100		
58	27.6	22.6	33.8





#19

Isopropyl Alcohol

Concen: 0.915 ppbv

RT: 4.06 min Scan# 349

Delta R.T. -0.00 min

Lab File: VL032528.D

Acq: 25 Sep 2018 3:39

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AMBIENT

Tot Ion: 45 Resp: 76801

Ion Ratio Lower Upper

45 100

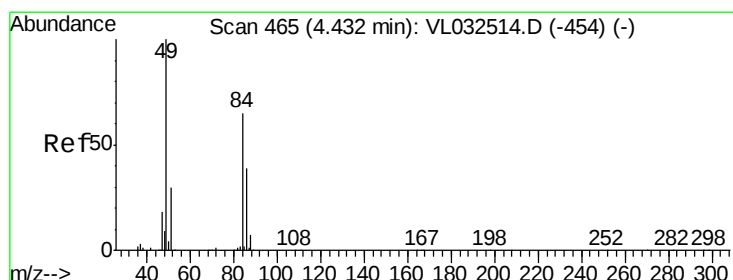
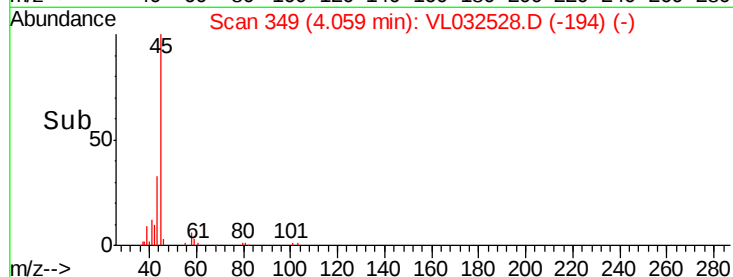
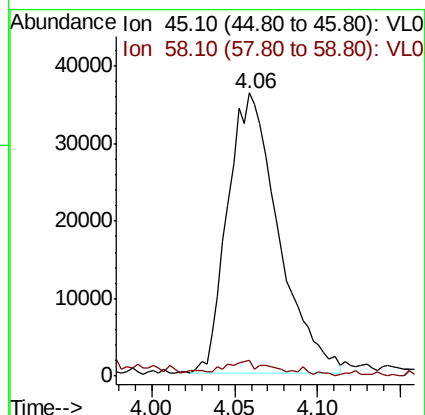
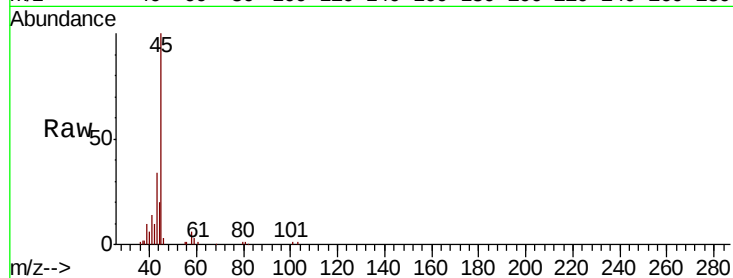
58 291.4 2.0 3.0#

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#20

Methylene Chloride

Concen: 2.316 ppbv

RT: 4.43 min Scan# 465

Delta R.T. -0.02 min

Lab File: VL032528.D

Acq: 25 Sep 2018 3:39

Tgt Ion: 84 Resp: 135135

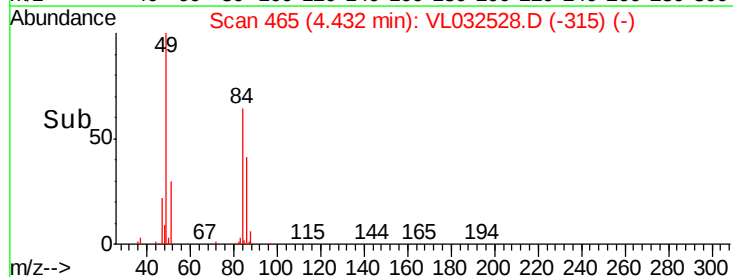
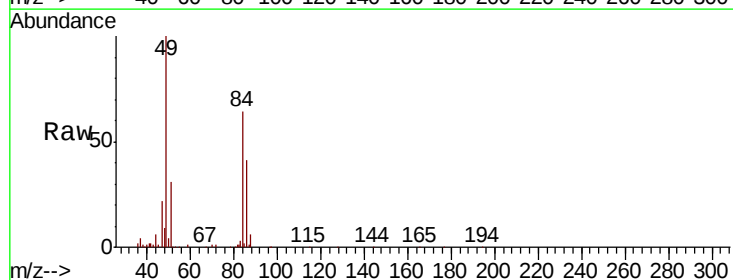
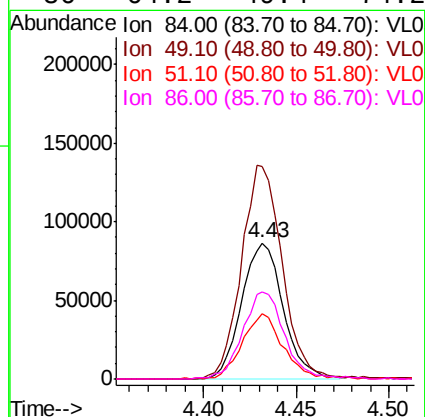
Ion Ratio Lower Upper

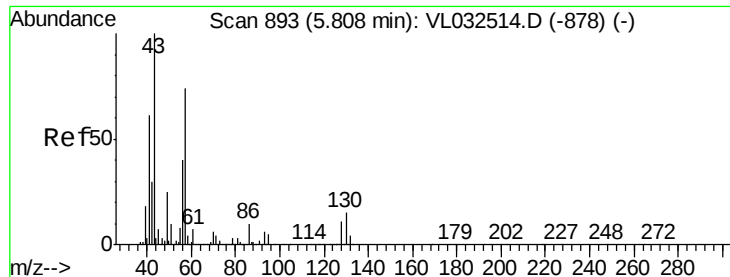
84 100

49 156.4 119.1 178.7

51 47.9 35.2 52.8

86 64.2 49.4 74.2





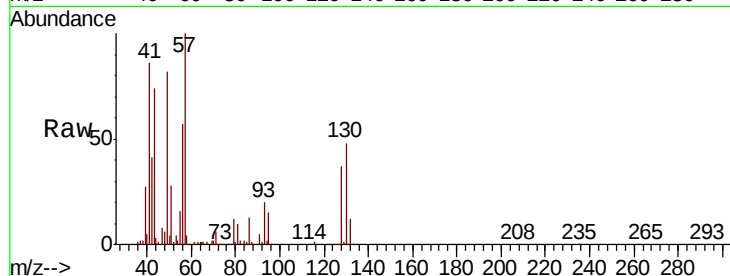
#26
Hexane
Concen: 3.276 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032528.D
Acq: 25 Sep 2018 3:39

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AMBIENT

Tot Ion	57	Resp	432674
Ion	Ratio	Lower	Upper
57	100		
41	90.2	69.0	103.4
43	76.8	172.1	258.1#
56	58.3	42.2	63.2

Manual Integrations
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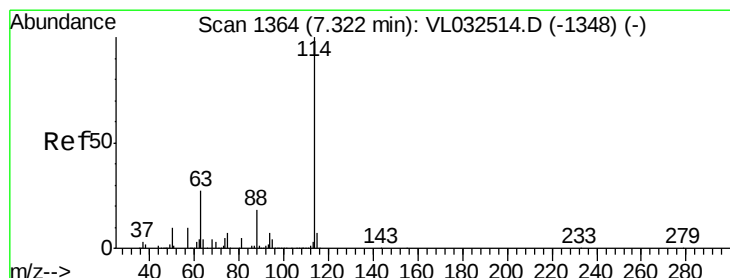
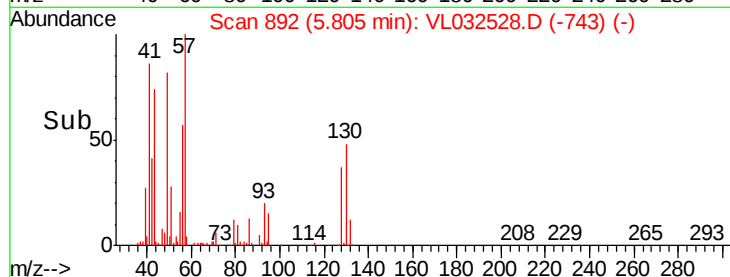
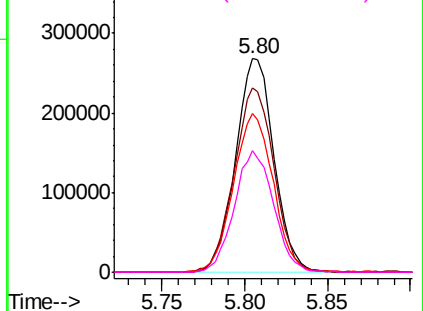
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

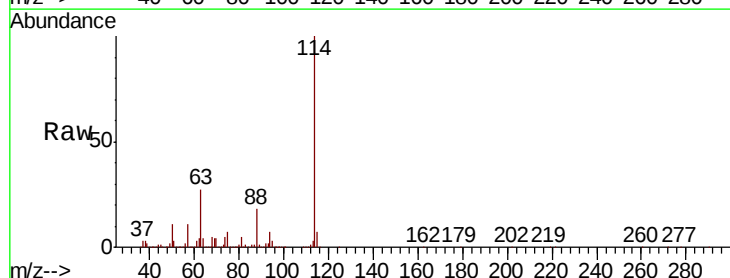
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.32 min Scan# 1363
Delta R.T. -0.03 min
Lab File: VL032528.D
Acq: 25 Sep 2018 3:39

Tgt Ion	114	Resp	2981866
Ion	Ratio	Lower	Upper
114	100		
63	27.3	22.2	33.4
88	18.4	15.0	22.4

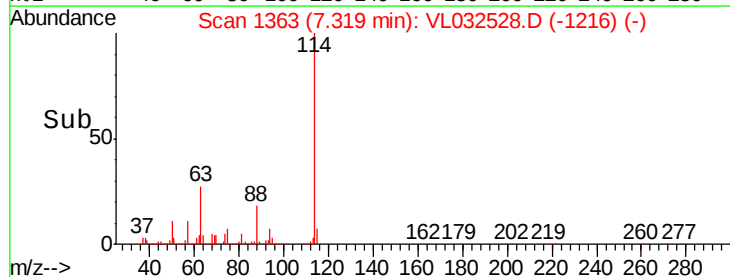
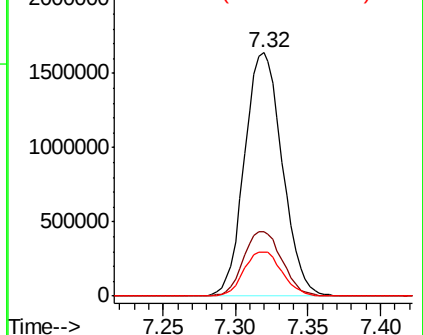


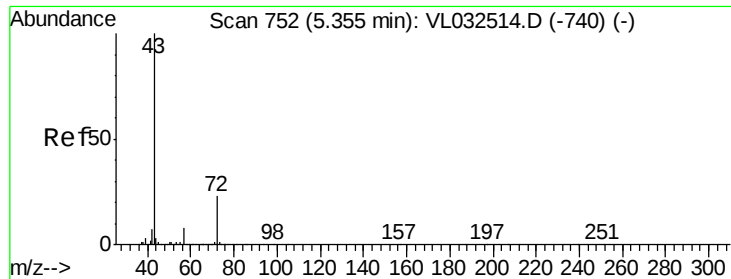
Abundance

Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





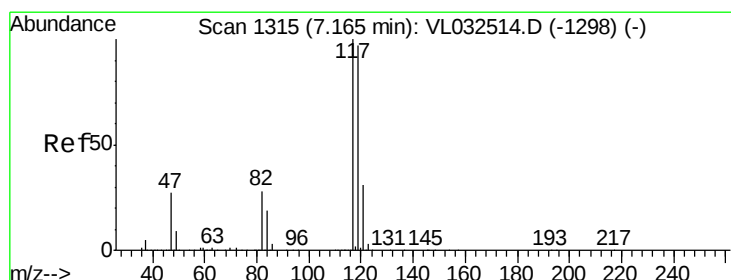
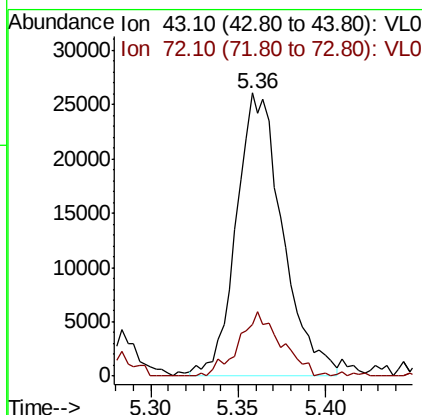
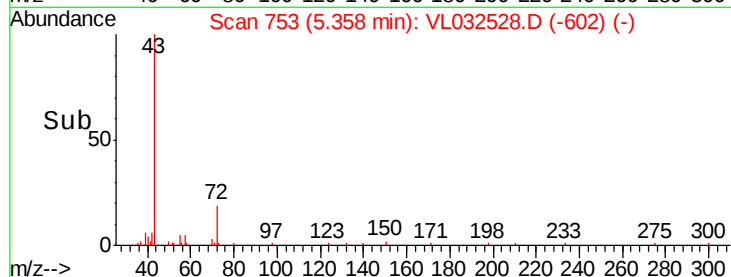
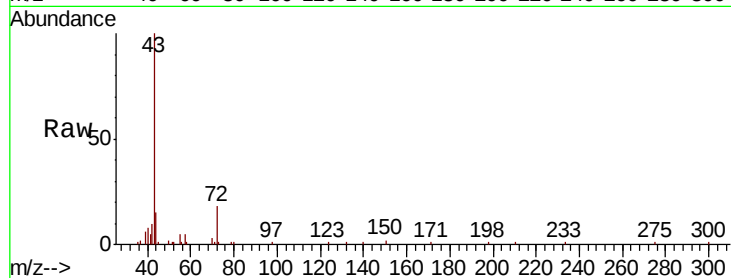
#34
2-Butanone
Concen: 0.270 ppbv m
RT: 5.36 min Scan# 753
Delta R.T. -0.01 min
Lab File: VL032528.D
Acq: 25 Sep 2018 3:39

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AMBIENT

Tot Ion: 43 Resp: 47863
Ion Ratio Lower Upper
43 100
72 0.0 17.8 26.6#

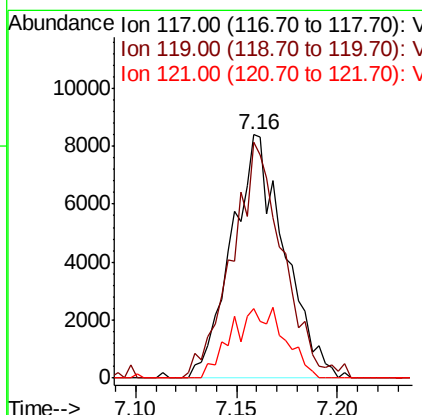
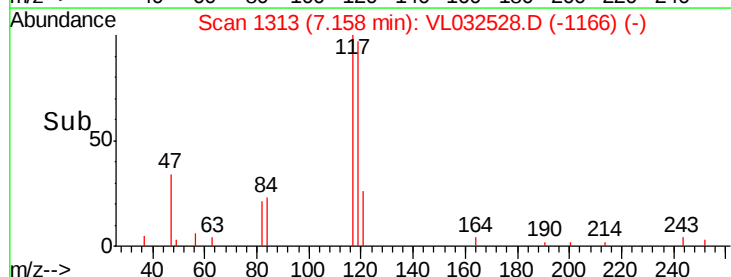
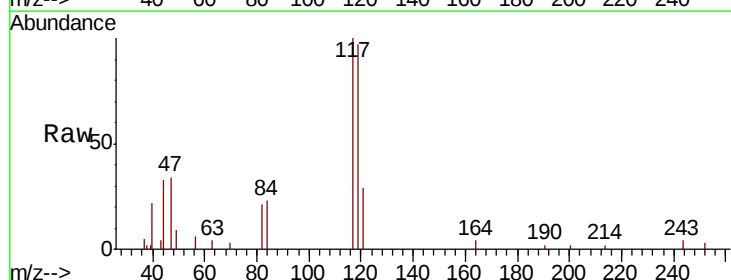
Manual Integrations
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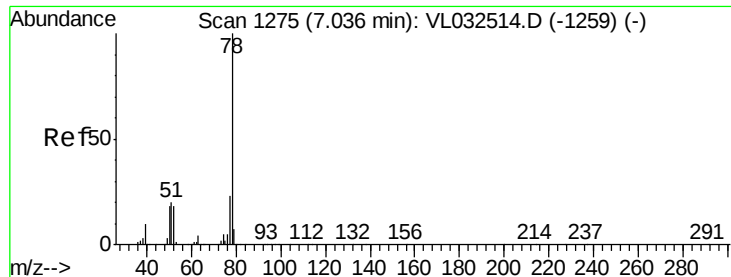
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#35
Carbon Tetrachloride
Concen: 0.074 ppbv
RT: 7.16 min Scan# 1313
Delta R.T. -0.03 min
Lab File: VL032528.D
Acq: 25 Sep 2018 3:39

Tgt Ion: 117 Resp: 15281
Ion Ratio Lower Upper
117 100
119 94.8 76.6 115.0
121 28.6 24.6 36.8





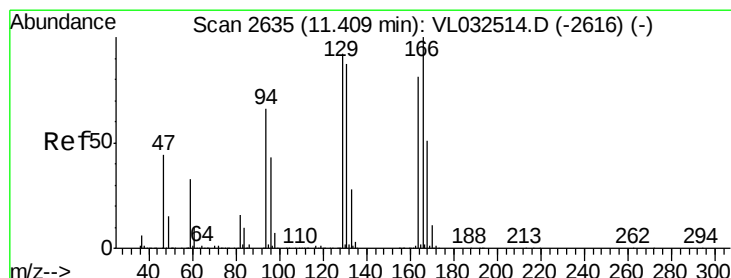
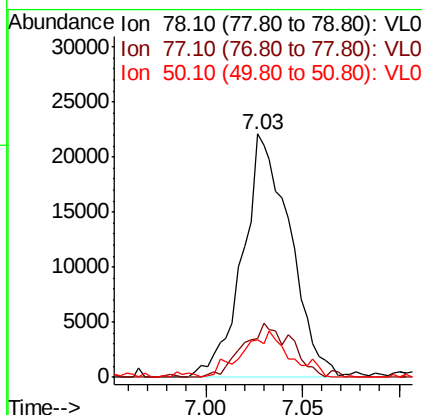
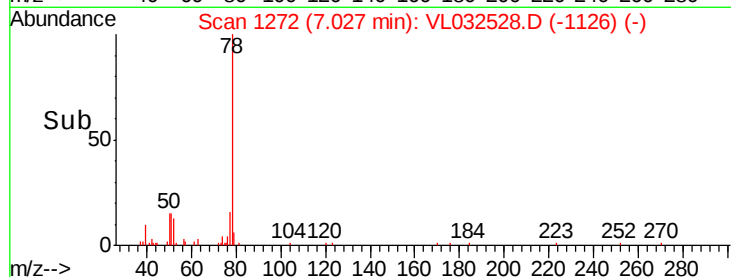
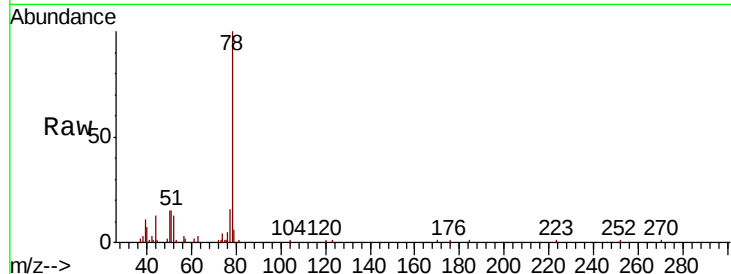
#36
Benzene
Concen: 0.156 ppbv
RT: 7.03 min Scan# 1272
Delta R.T. -0.03 min
Lab File: VL032528.D
Acq: 25 Sep 2018 3:39

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AMBIENT

Tot Ion:	78	Resp:	37590
Ion Ratio	Lower	Upper	
78	100		
77	16.2	18.4	27.6#
50	13.9	14.4	21.6#

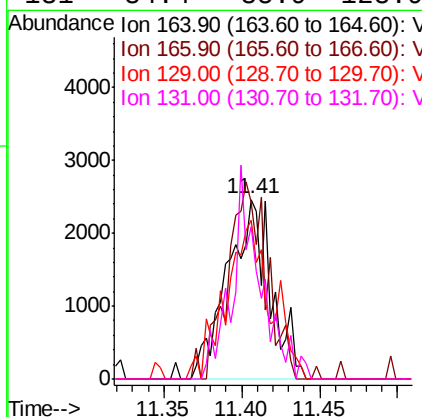
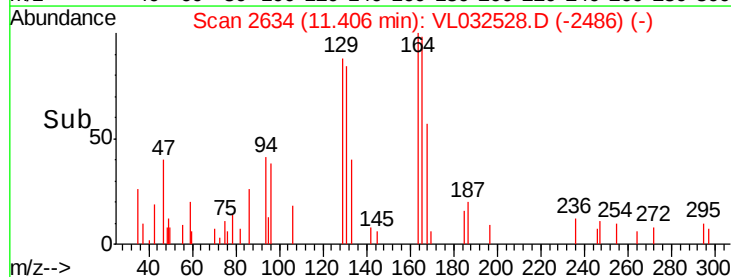
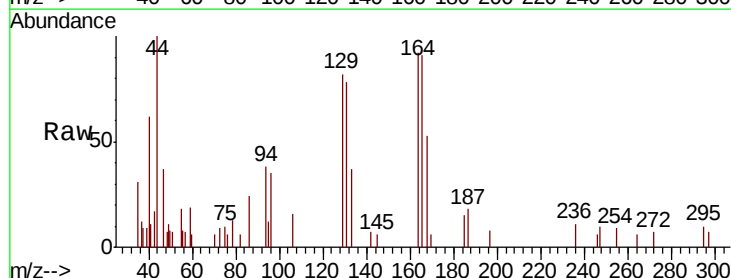
Manual Integrations
APPROVED

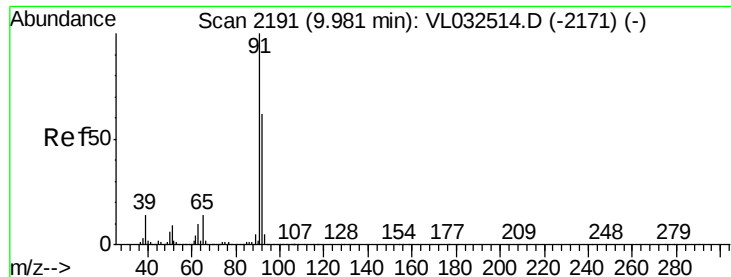
MMDadoda
9/27/2018 12:31:35 PM



#52
Tetrachloroethene
Concen: 0.057 ppbv m
RT: 11.41 min Scan# 2634
Delta R.T. -0.02 min
Lab File: VL032528.D
Acq: 25 Sep 2018 3:39

Tgt Ion:	164	Resp:	4787
Ion Ratio	Lower	Upper	
164	100		
166	98.3	100.6	150.8#
129	88.4	89.9	134.9#
131	84.4	85.9	128.9#





#53

Toluene

Concen: 1.578 ppbv

RT: 9.98 min Scan# 2189

Delta R.T. -0.03 min

Lab File: VL032528.D

Acq: 25 Sep 2018 3:39

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AMBIENT

Tot Ion: 91 Resp: 463286

Ion Ratio Lower Upper

91 100

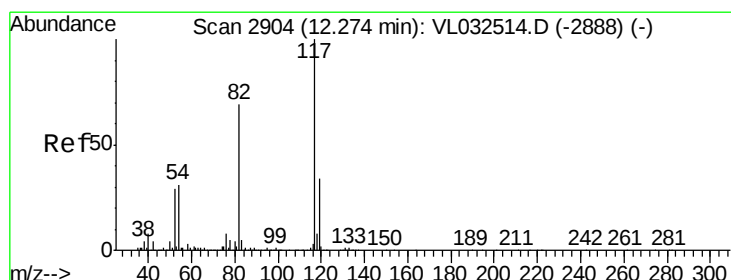
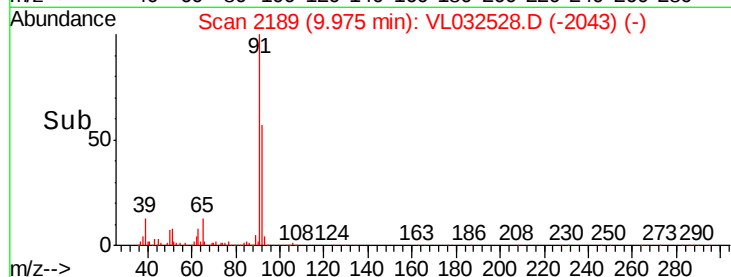
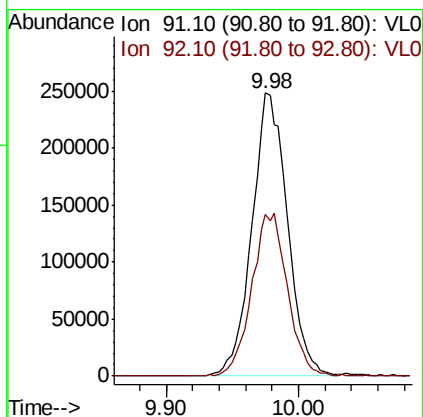
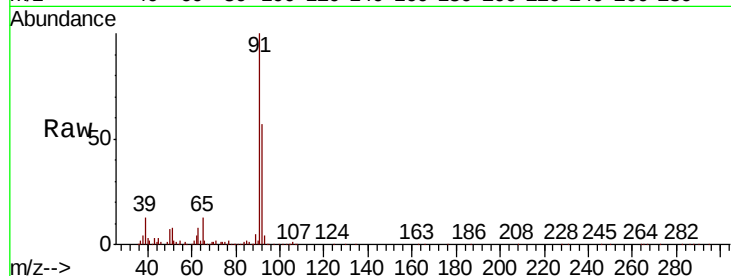
92 58.1 48.1 72.1

Manual Integrations

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9/27/2018 12:31:35 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2902

Delta R.T. -0.03 min

Lab File: VL032528.D

Acq: 25 Sep 2018 3:39

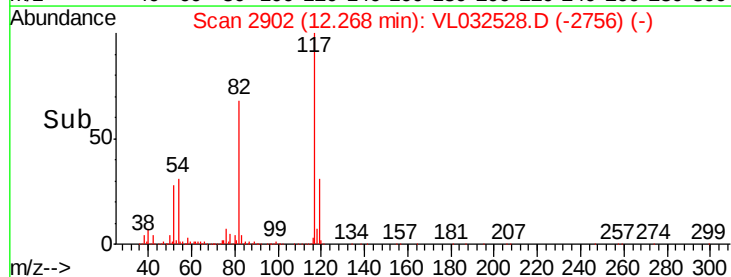
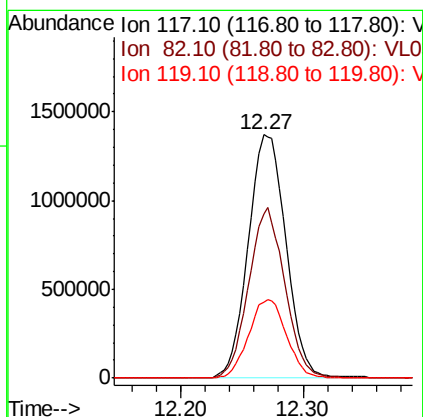
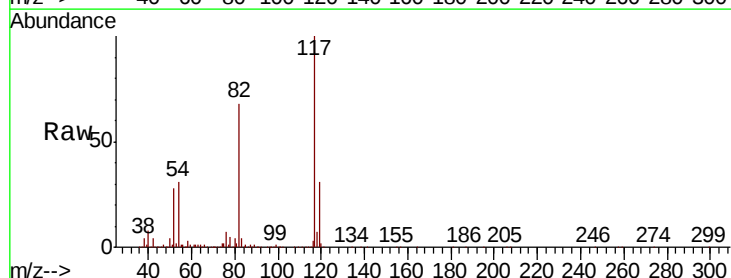
Tgt Ion: 117 Resp: 2923976

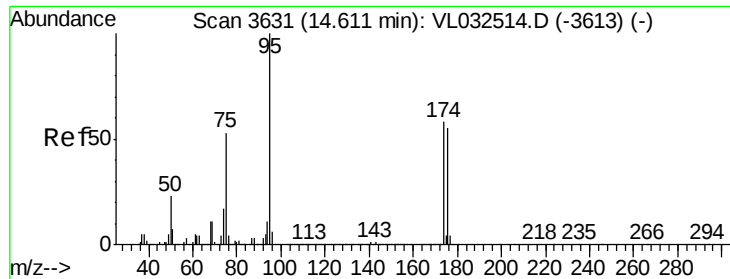
Ion Ratio Lower Upper

117 100

82 67.2 53.0 79.6

119 32.5 45.9 68.9#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.940 ppbv

RT: 14.61 min Scan# 3630

Delta R.T. -0.03 min

Lab File: VL032528.D

Acq: 25 Sep 2018 3:39

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AMBIENT

Tot Ion: 95 Resp: 2191727

Ion Ratio Lower Upper

95 100

174 58.0 46.3 69.5

175 4.3 3.4 5.0

Manual Integrations

APPROVED

MMDadoda

9/27/2018 12:31:35 PM

