

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092418\
 Data File : VL032526.D
 Acq On : 25 Sep 2018 2:20
 Operator : SY/AP
 Sample : J5039-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INDOOR-AIRDUP

Manual Integrations
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 9/26/2018 4:48:23 PM

Quant Time: Sep 25 06:18:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 25 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	1436825	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3099959	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3069144	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2341702	10.12	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	83249	0.626	ppbv	93
3) Chlorodifluoromethane	3.03	51	46034m	0.385	ppbv	
4) Chloromethane	3.19	50	45346	0.651	ppbv #	88
9) Propene	3.07	41	77696	1.499	ppbv #	72
11) Trichlorofluoromethane	4.03	101	41641	0.264	ppbv	91
13) Ethanol	3.68	45	606903	38.947	ppbv	96
15) Acetone	3.92	43	3354663	26.599	ppbv	98
19) Isopropyl Alcohol	4.06	45	380614	4.333	ppbv #	1
20) Methylene Chloride	4.43	84	437657	7.166	ppbv	97
26) Hexane	5.80	57	625514	4.525	ppbv #	50
29) Chloroform	5.87	83	61968	0.292	ppbv	94
34) 2-Butanone	5.36	43	133872	0.725	ppbv	97
35) Carbon Tetrachloride	7.16	117	17880m	0.083	ppbv	
36) Benzene	7.03	78	65340	0.261	ppbv	94
53) Toluene	9.98	91	740701	2.426	ppbv	99
74) 1,2,4-Trimethylbenzene	16.96	105	119984	0.328	ppbv #	72
79) Naphthalene	22.44	128	49159m	0.186	ppbv	

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

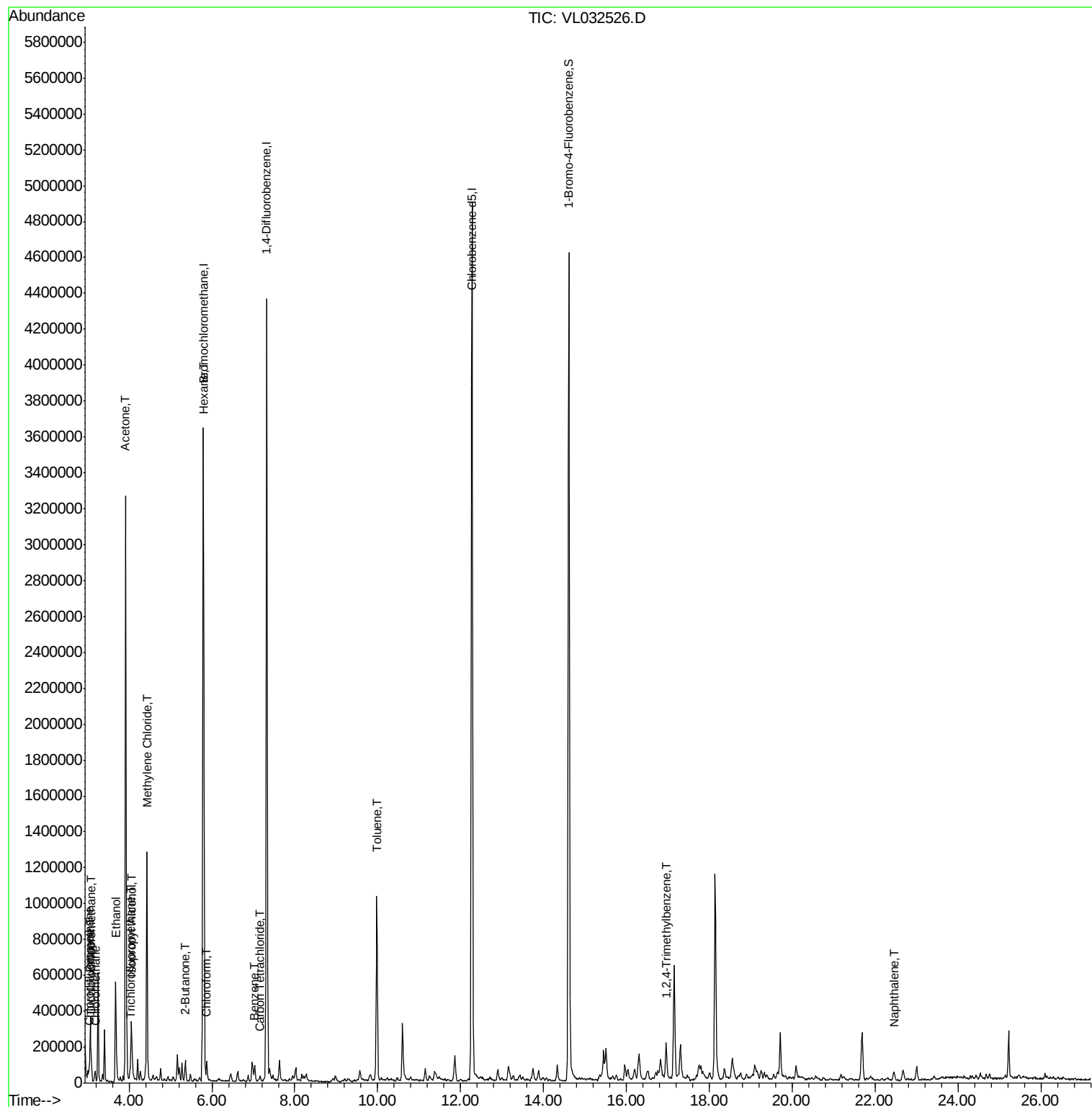
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL092418\
Data File : VL032526.D
Acq On : 25 Sep 2018 2:20
Operator : SY/AP
Sample : J5039-01DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

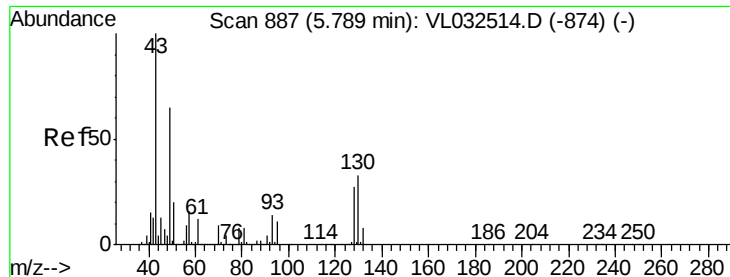
Instrument :
MSVOA_L
ClientSampleId :
INDOOR-AIRDUP

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Quant Time: Sep 25 06:18:14 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep
QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032526.D

Acq: 25 Sep 2018 2:20

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-AIRDUP

Tot Ion: 49 Resp: 1436825

Ion Ratio Lower Upper

49 100

128 43.3 20.7 62.1

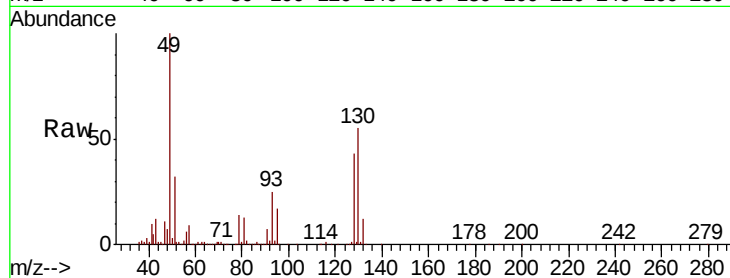
130 54.6 26.6 79.7

Manual Integrations

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

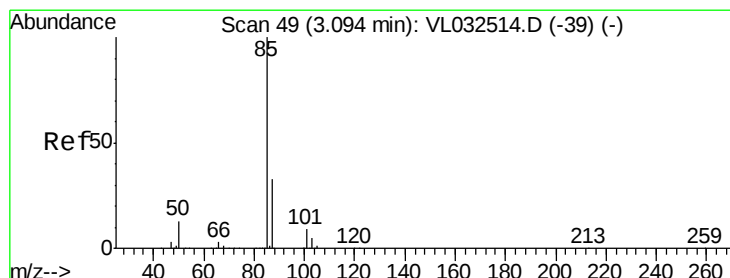
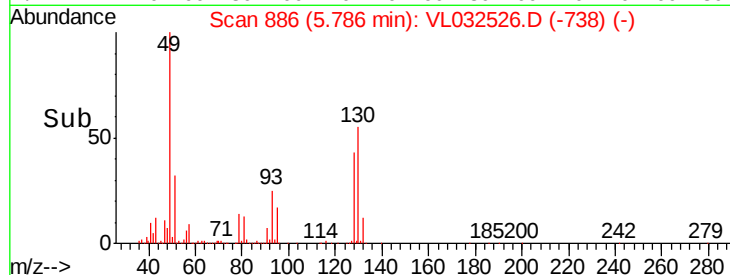
400000

200000

0

5.79

5.70 5.75 5.80 5.85



#2

Dichlorodifluoromethane

Concen: 0.626 ppbv

RT: 3.09 min Scan# 49

Delta R.T. -0.01 min

Lab File: VL032526.D

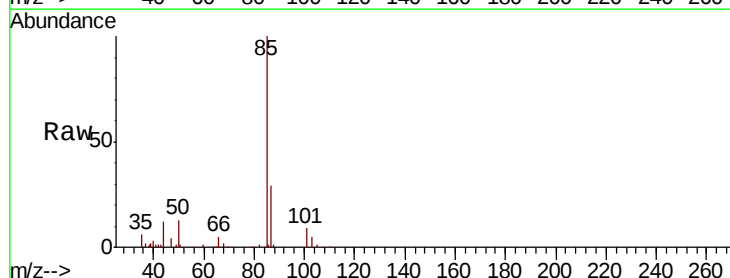
Acq: 25 Sep 2018 2:20

Tgt Ion: 85 Resp: 83249

Ion Ratio Lower Upper

85 100

87 29.1 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

80000

60000

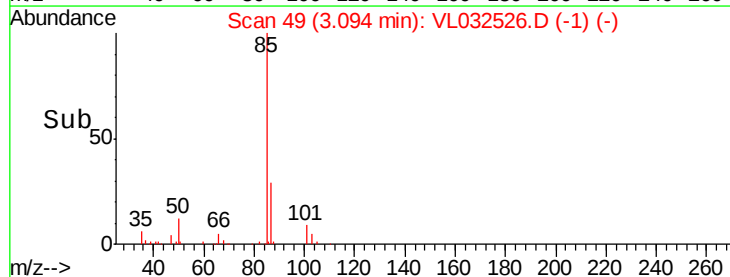
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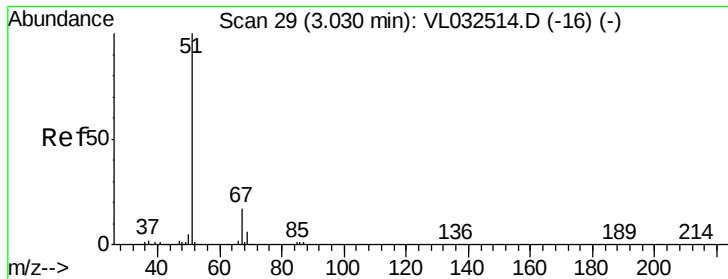
20000

0

3.09

3.05 3.10 3.15





#3

Chlorodifluoromethane

Concen: 0.385 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL032526.D

Acq: 25 Sep 2018 2:20

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-AIRDUP

Tot Ion: 51 Resp: 46034

Ion Ratio Lower Upper

51 100

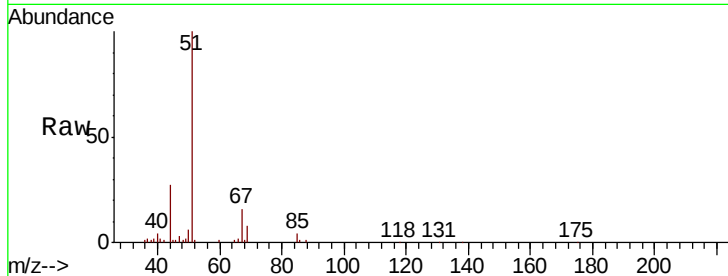
67 18.5 13.8 20.8

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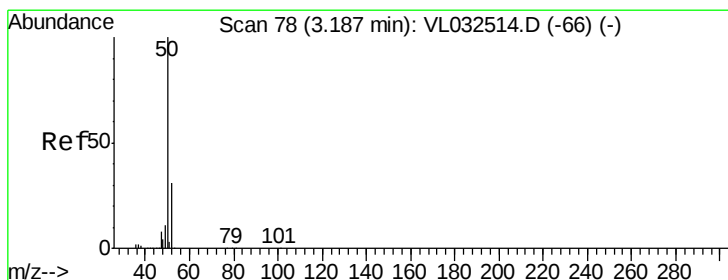
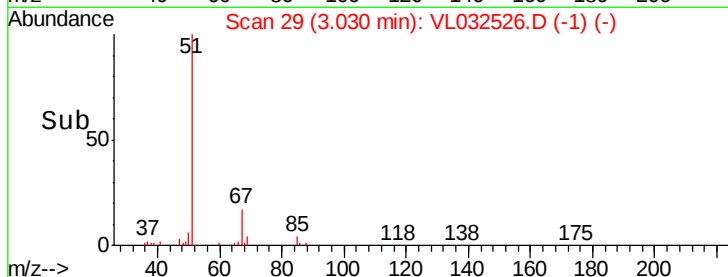
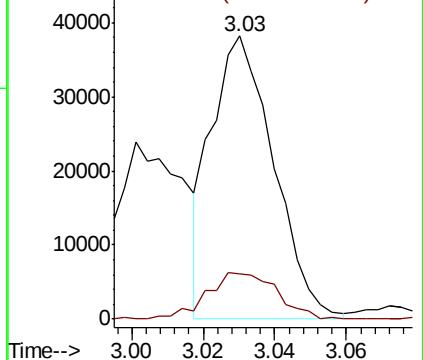
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.651 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL032526.D

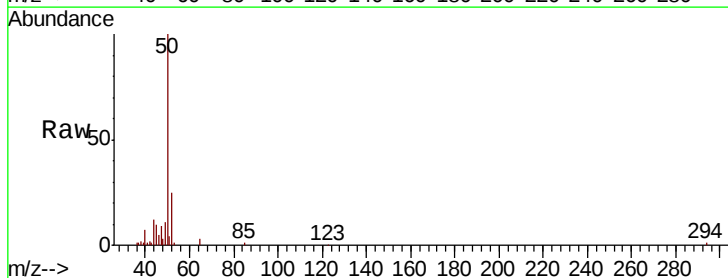
Acq: 25 Sep 2018 2:20

Tgt Ion: 50 Resp: 45346

Ion Ratio Lower Upper

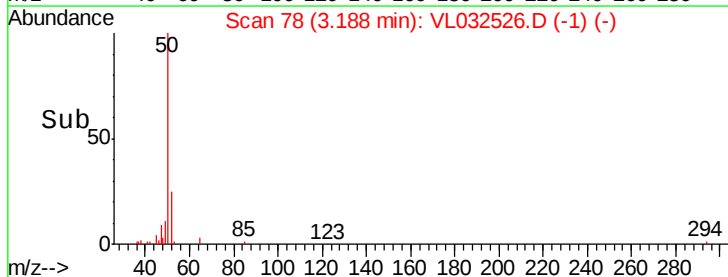
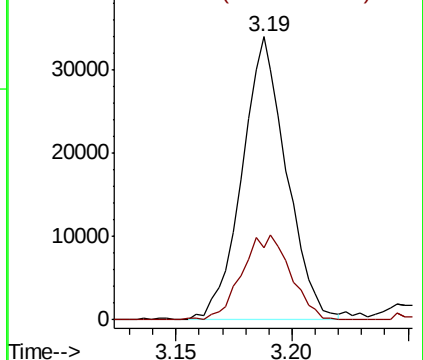
50 100

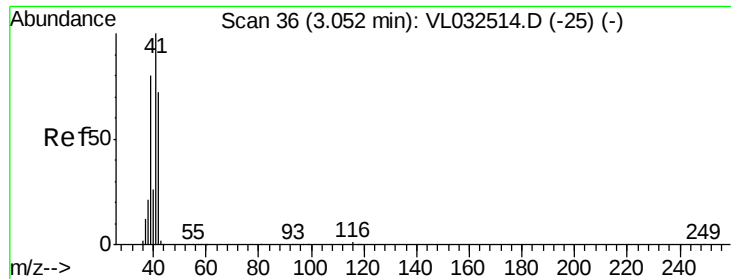
52 25.4 25.6 38.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.499 ppbv

RT: 3.07 min Scan# 40

Delta R.T. -0.00 min

Lab File: VL032526.D

Acq: 25 Sep 2018 2:20

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-AIRDUP

Tot Ion: 41 Resp: 77696

Ion Ratio Lower Upper

41 100

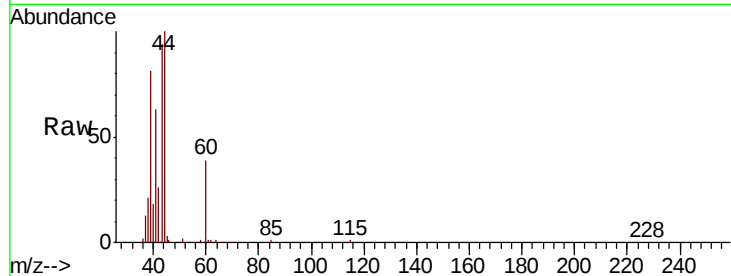
42 47.7 56.6 84.8#

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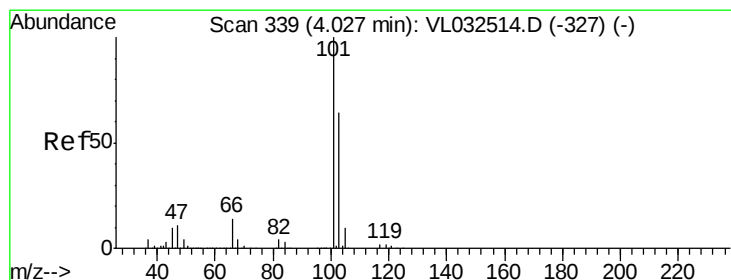
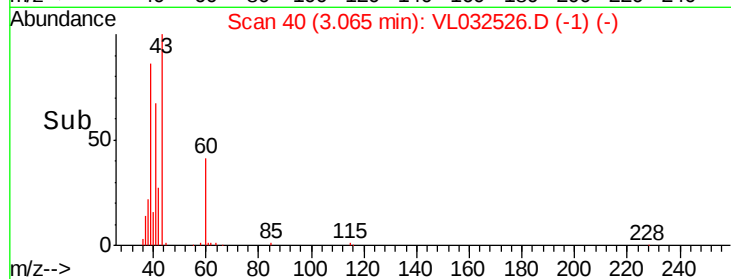
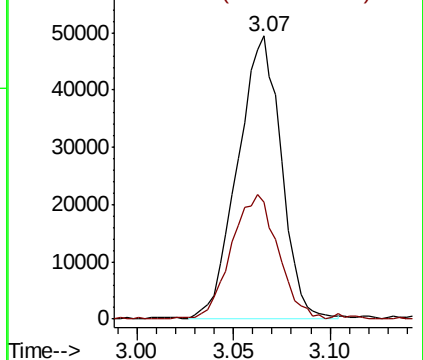
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.264 ppbv

RT: 4.03 min Scan# 339

Delta R.T. -0.01 min

Lab File: VL032526.D

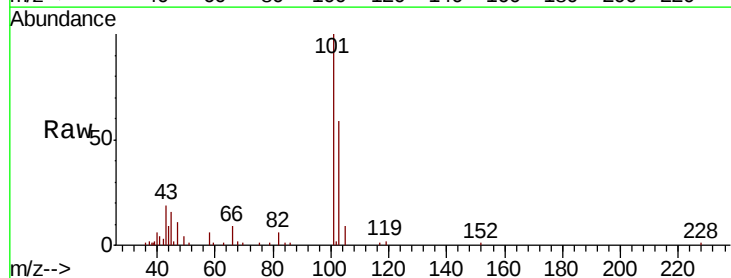
Acq: 25 Sep 2018 2:20

Tgt Ion: 101 Resp: 41641

Ion Ratio Lower Upper

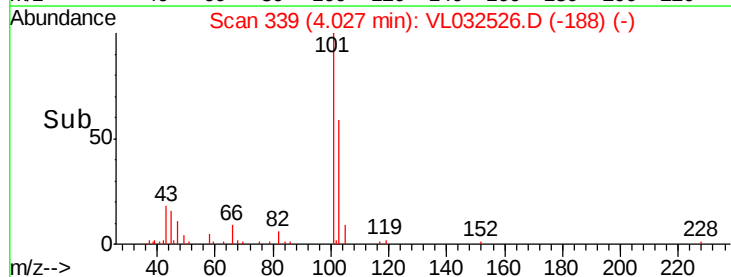
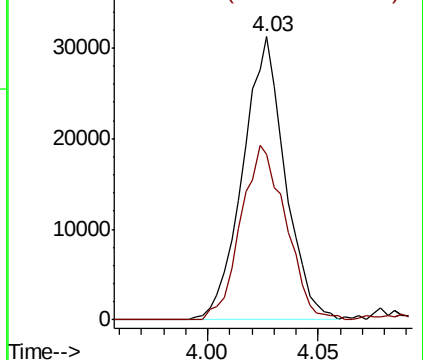
101 100

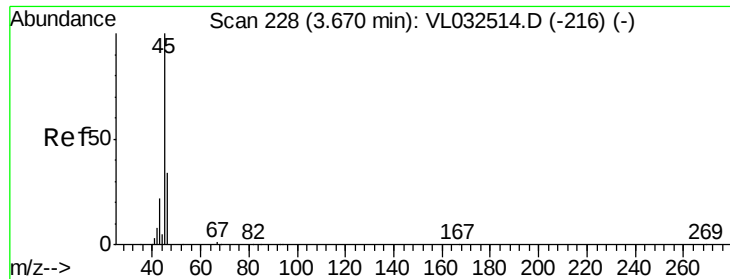
103 58.5 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





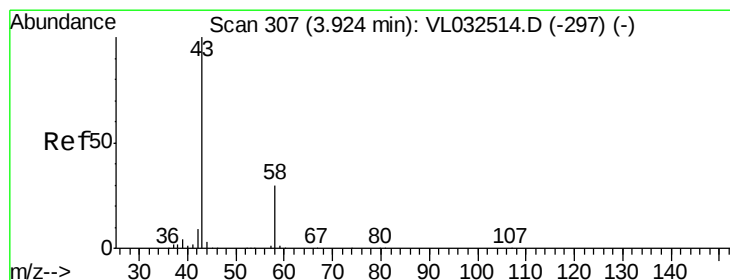
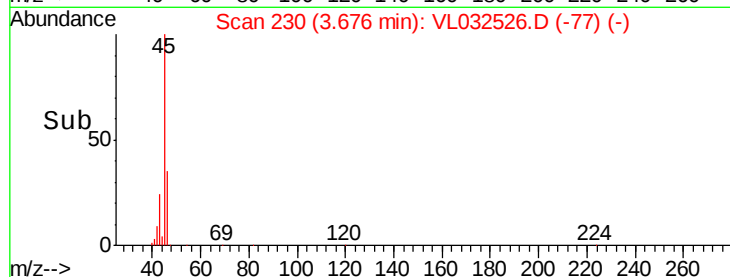
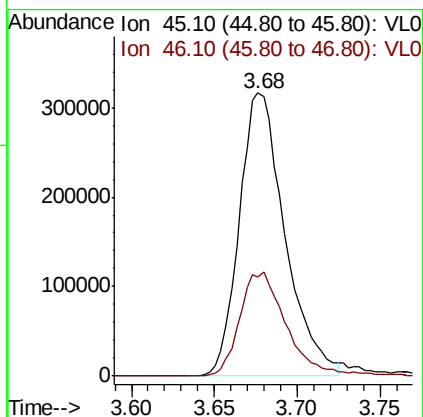
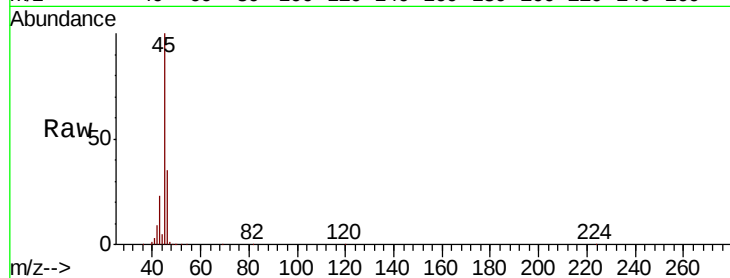
#13
Ethanol
Concen: 38.947 ppbv
RT: 3.68 min Scan# 230
Delta R.T. -0.01 min
Lab File: VL032526.D
Acq: 25 Sep 2018 2:20

Instrument :
MSVOA_L
ClientSampleId :
INDOOR-AIRDUP

Tot Ion	45	46	Ratio	Lower	Upper
Resp: 606903	100	38.0		14.2	56.8

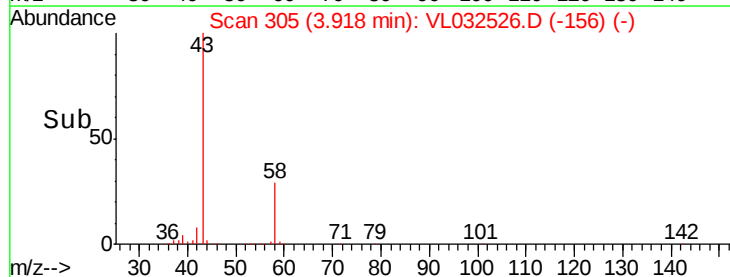
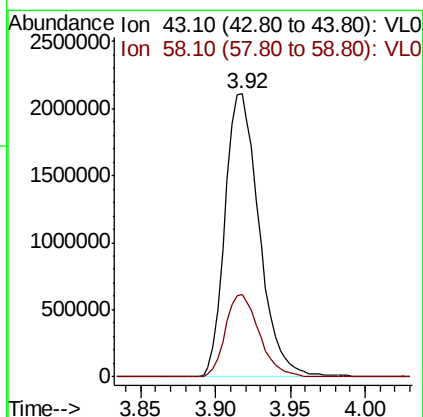
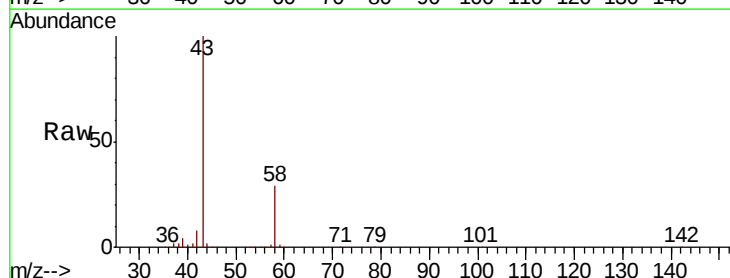
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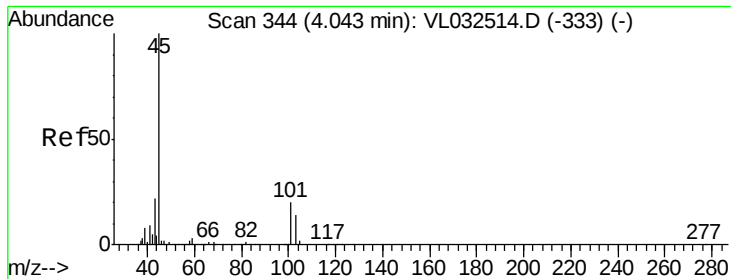
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#15
Acetone
Concen: 26.599 ppbv
RT: 3.92 min Scan# 305
Delta R.T. -0.02 min
Lab File: VL032526.D
Acq: 25 Sep 2018 2:20

Tgt Ion	43	58	Ratio	Lower	Upper
Resp: 3354663	100	29.0		22.6	33.8





#19

Isopropyl Alcohol

Concen: 4.333 ppbv

RT: 4.06 min Scan# 348

Delta R.T. -0.01 min

Lab File: VL032526.D

Acq: 25 Sep 2018 2:20

Tot Ion: 45 Resp: 380614

Ion Ratio Lower Upper

45 100

58 255.5 2.0 3.0#

Instrument :

MSVOA_L

ClientSampleId :

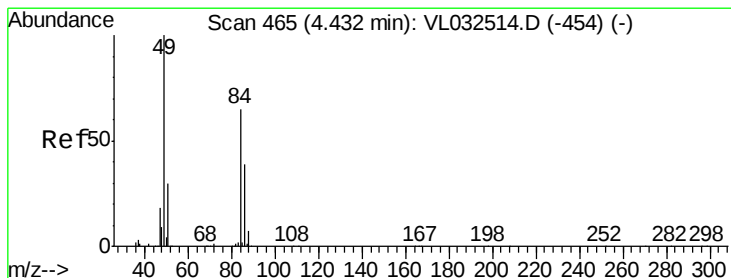
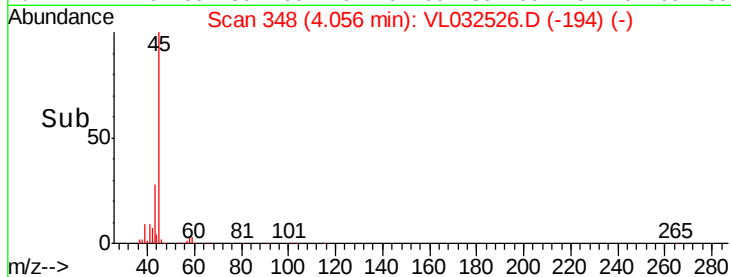
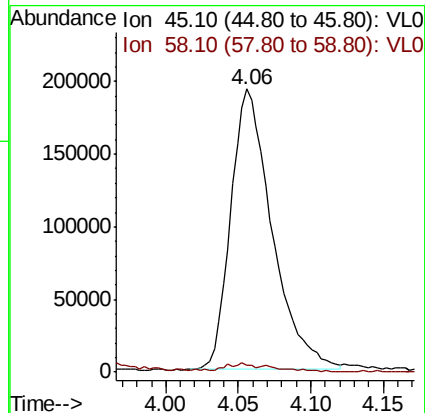
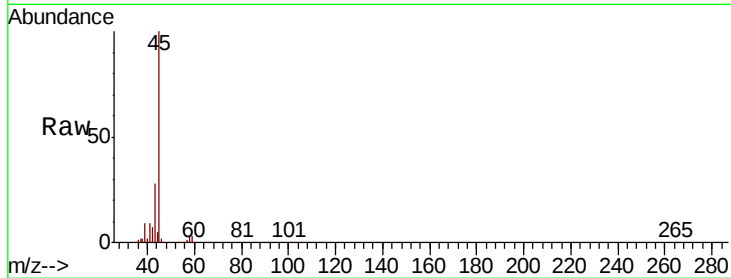
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#20

Methylene Chloride

Concen: 7.166 ppbv

RT: 4.43 min Scan# 464

Delta R.T. -0.02 min

Lab File: VL032526.D

Acq: 25 Sep 2018 2:20

Tgt Ion: 84 Resp: 437657

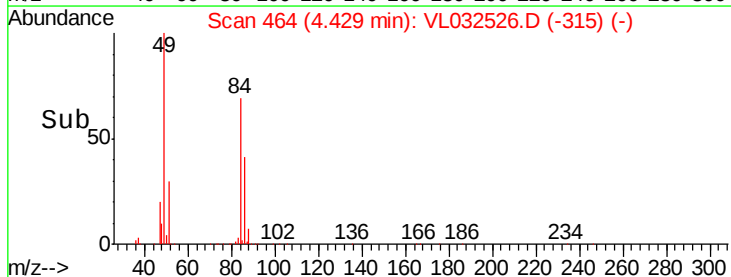
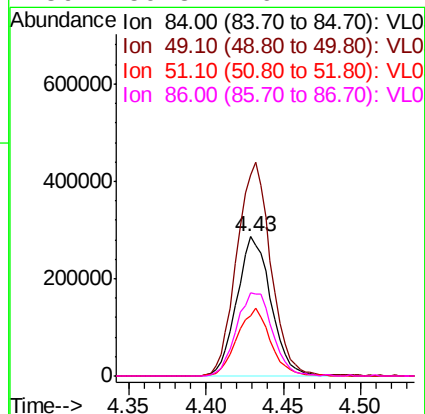
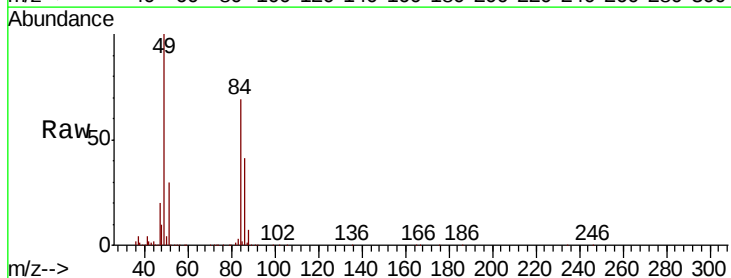
Ion Ratio Lower Upper

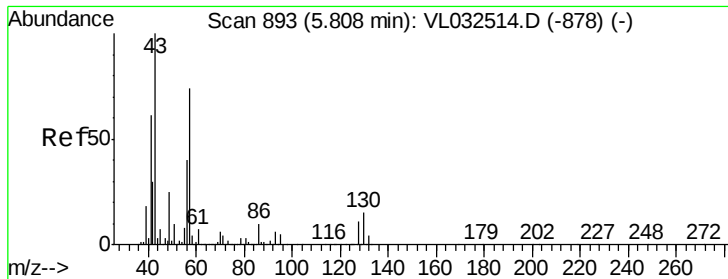
84 100

49 144.4 119.1 178.7

51 43.3 35.2 52.8

86 59.3 49.4 74.2





#26

Hexane

Concen: 4.525 ppbv

RT: 5.80 min Scan# 892

Delta R.T. -0.02 min

Lab File: VL032526.D

Acq: 25 Sep 2018 2:20

Instrument :

MSVOA_L

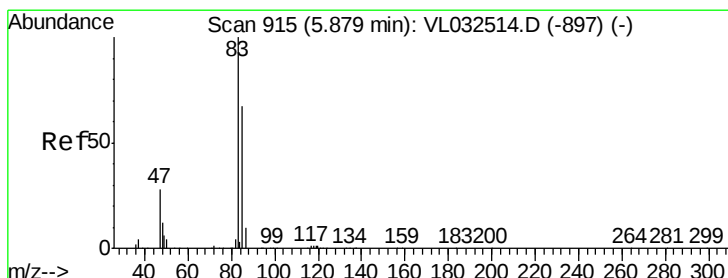
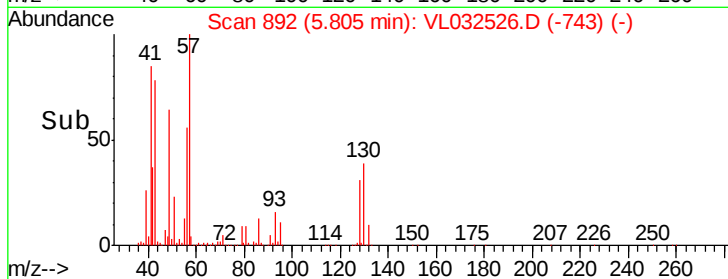
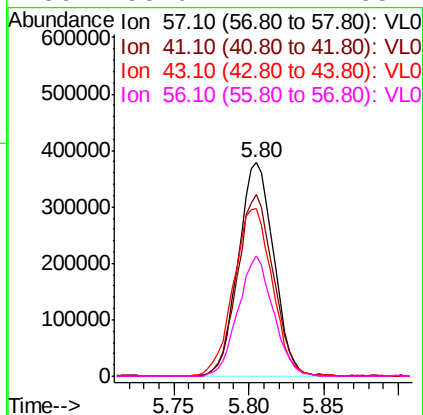
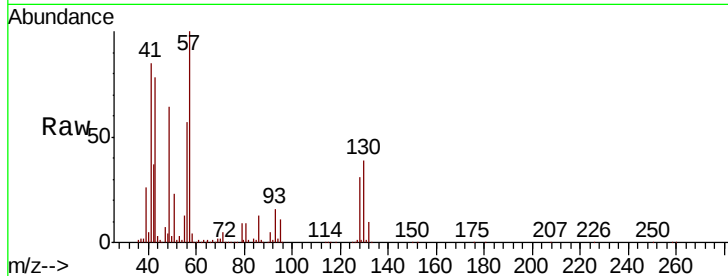
ClientSampleId :

INDOOR-AIRDUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	86.9	69.0	103.4
43	85.7	172.1	258.1#
56	56.0	42.2	63.2

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#29

Chloroform

Concen: 0.292 ppbv

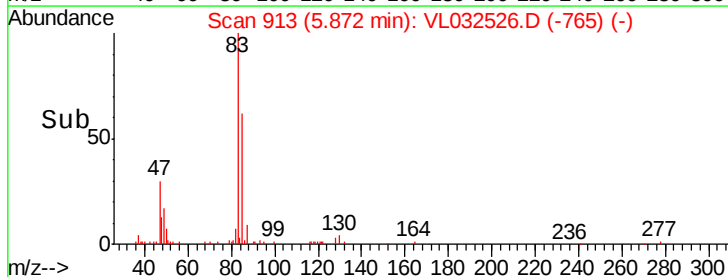
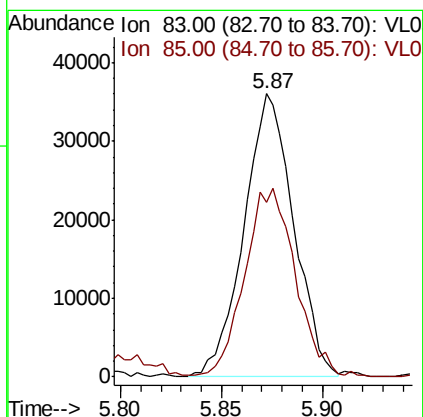
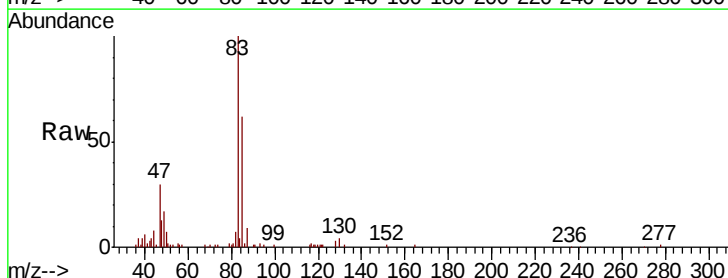
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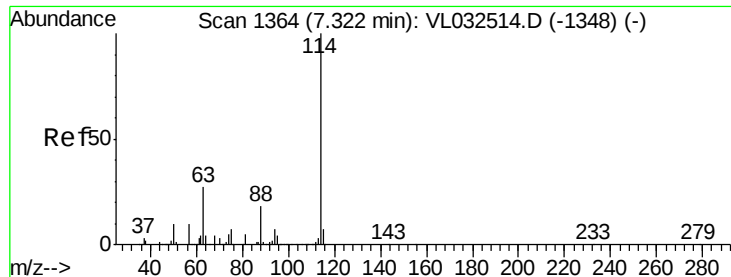
Delta R.T. -0.02 min

Lab File: VL032526.D

Acq: 25 Sep 2018 2:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.1	52.5	78.7





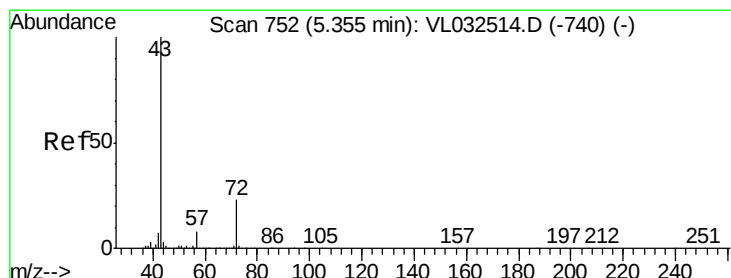
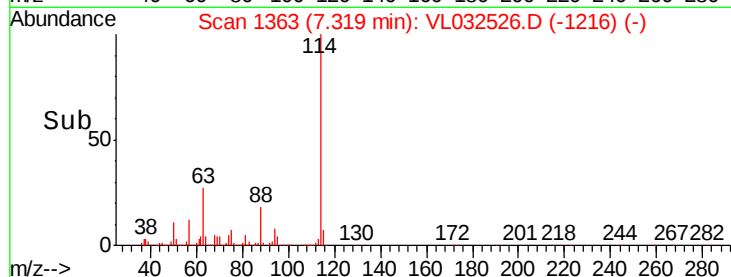
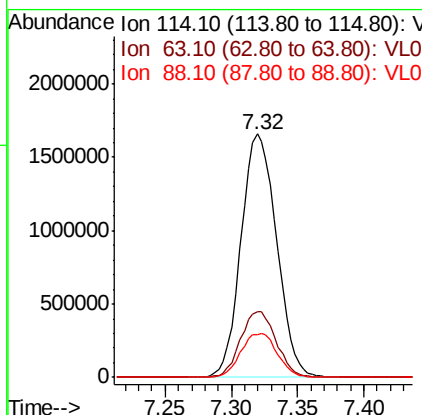
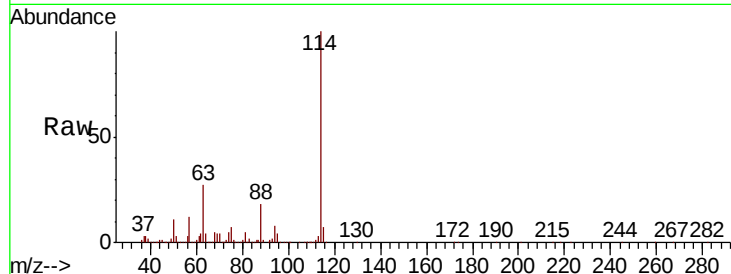
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.03 min
 Lab File: VL032526.D
 Acq: 25 Sep 2018 2:20

Instrument :
 MSVOA_L
 ClientSampleId :
 INDOOR-AIRDUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.1	22.2	33.4
88	18.6	15.0	22.4

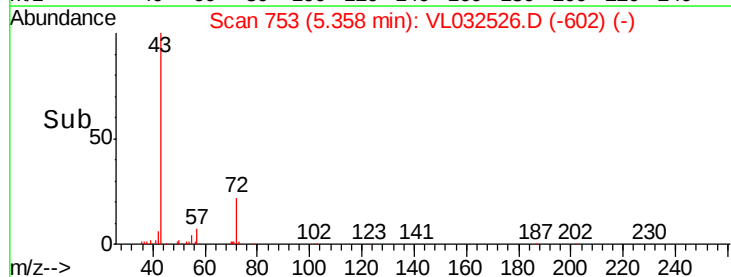
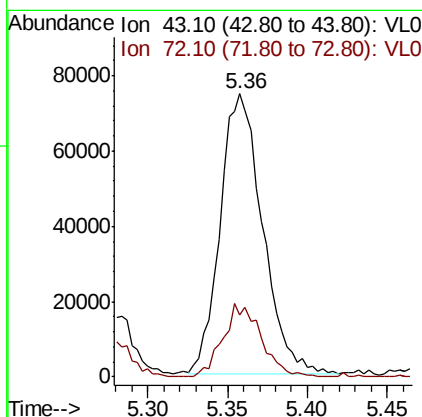
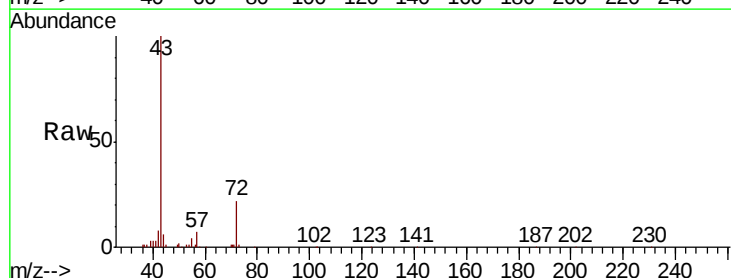
Manual Integrations
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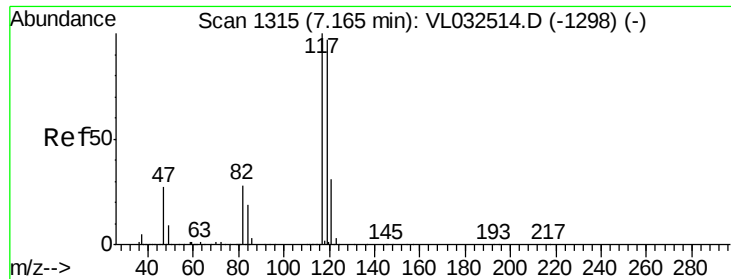
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#34
 2-Butanone
 Concen: 0.725 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. -0.01 min
 Lab File: VL032526.D
 Acq: 25 Sep 2018 2:20

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.7	17.8	26.6





#35

Carbon Tetrachloride

Concen: 0.083 ppbv m

RT: 7.16 min Scan# 1312

Delta R.T. -0.03 min

Lab File: VL032526.D

Acq: 25 Sep 2018 2:20

Instrument :

MSVOA_L

ClientSampleId :

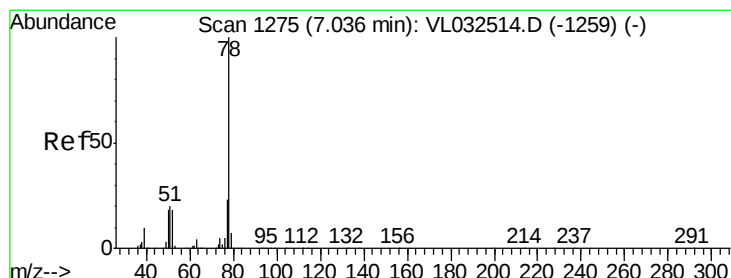
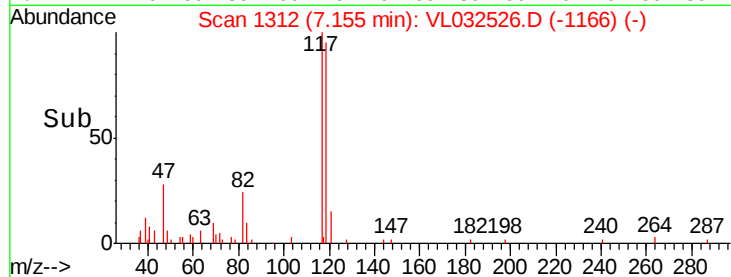
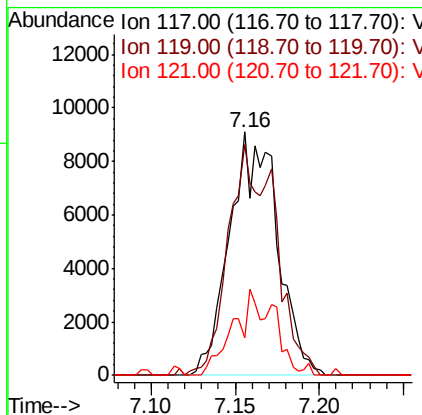
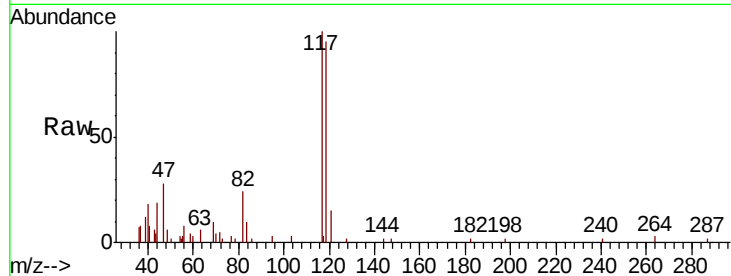
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
117	100		17880		
119	94.9	76.6	115.0		
121	15.3	24.6	36.8#		

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#36

Benzene

Concen: 0.261 ppbv

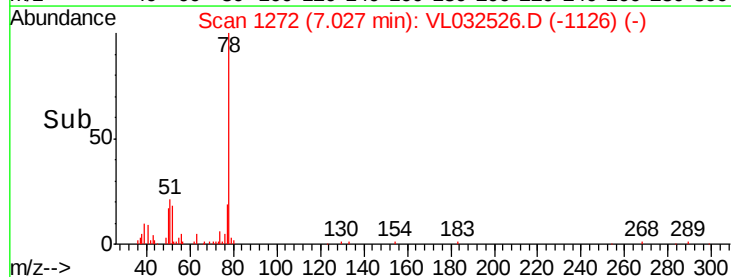
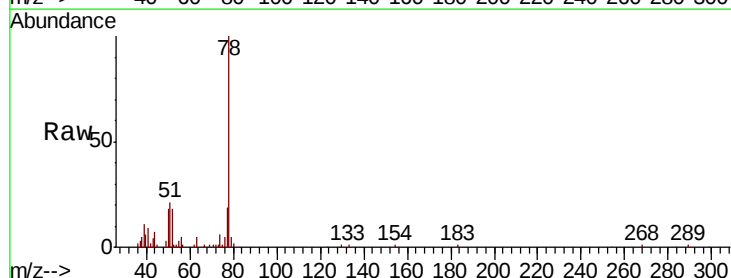
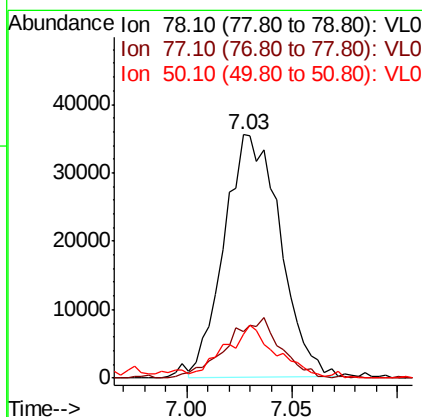
RT: 7.03 min Scan# 1272

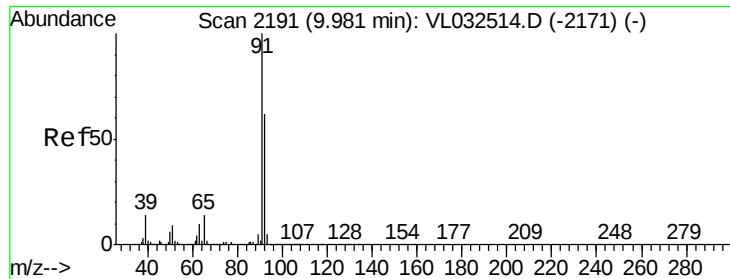
Delta R.T. -0.03 min

Lab File: VL032526.D

Acq: 25 Sep 2018 2:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
78	100		65340		
77	18.6	18.4	27.6		
50	16.7	14.4	21.6		





#53

Toluene

Concen: 2.426 ppbv

RT: 9.98 min Scan# 2190

Delta R.T. -0.03 min

Lab File: VL032526.D

Acq: 25 Sep 2018 2:20

Instrument :

MSVOA_L

ClientSampleId :

INDOOR-AIRDUP

Tot Ion: 91 Resp: 740701

Ion Ratio Lower Upper

91 100

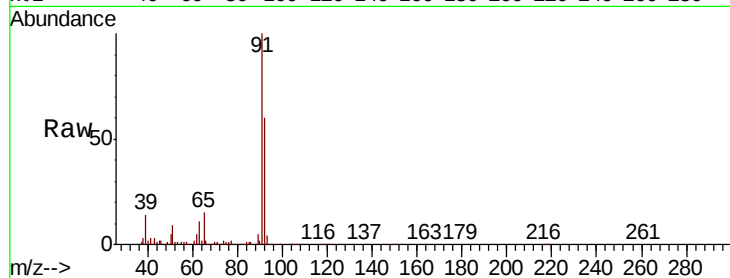
92 59.7 48.1 72.1

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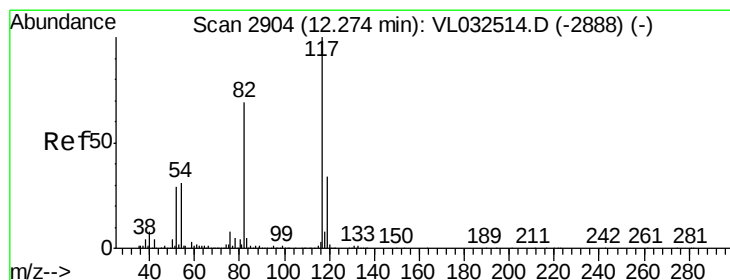
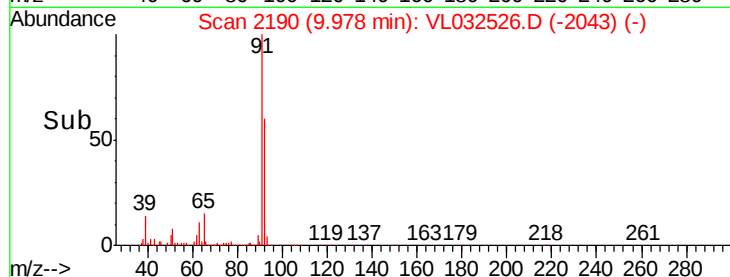
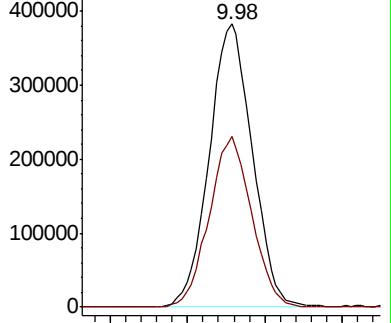
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2903

Delta R.T. -0.03 min

Lab File: VL032526.D

Acq: 25 Sep 2018 2:20

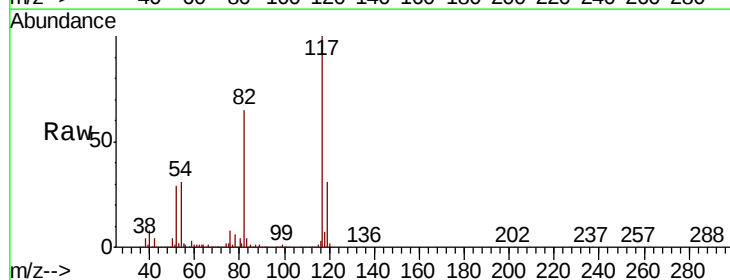
Tgt Ion: 117 Resp: 3069144

Ion Ratio Lower Upper

117 100

82 66.5 53.0 79.6

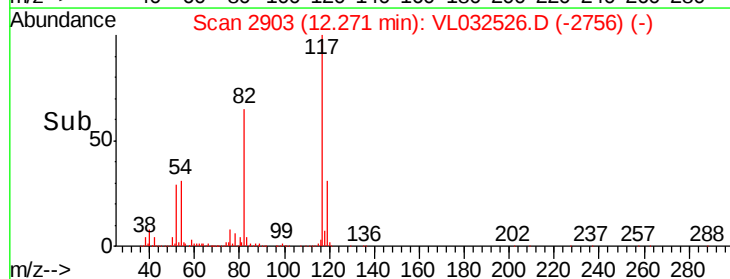
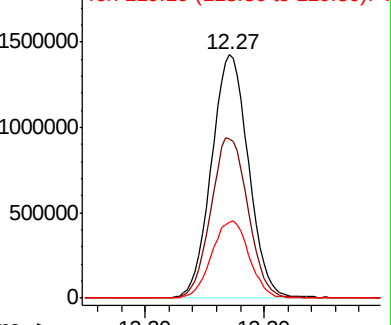
119 32.2 45.9 68.9#

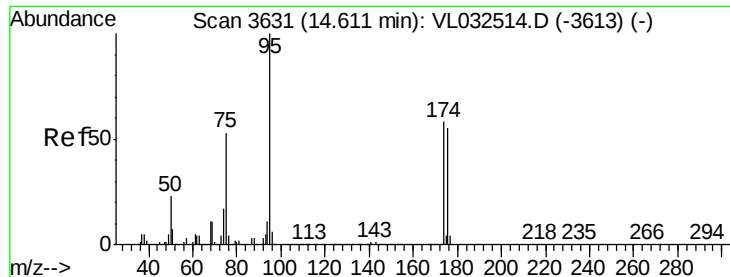


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





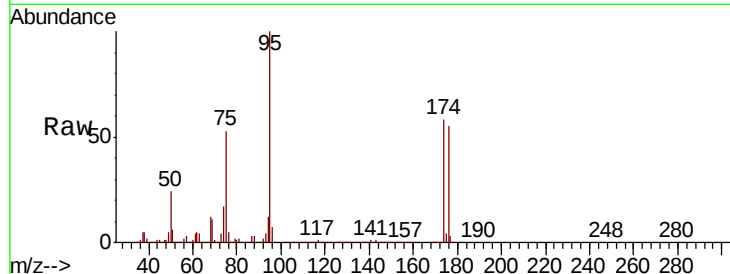
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.118 ppbv
 RT: 14.61 min Scan# 3630
 Delta R.T. -0.03 min
 Lab File: VL032526.D
 Acq: 25 Sep 2018 2:20

Instrument :
 MSVOA_L
 ClientSampleId :
 INDOOR-AIRDUP

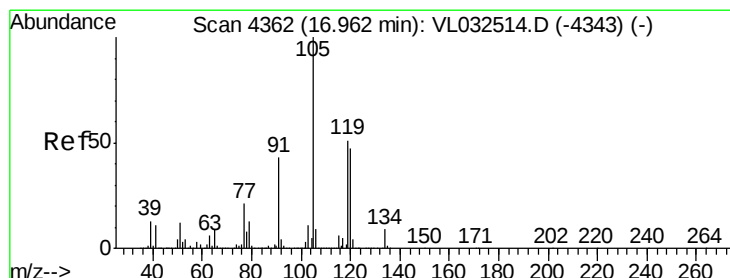
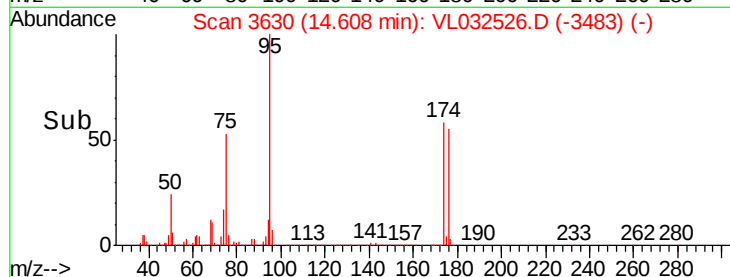
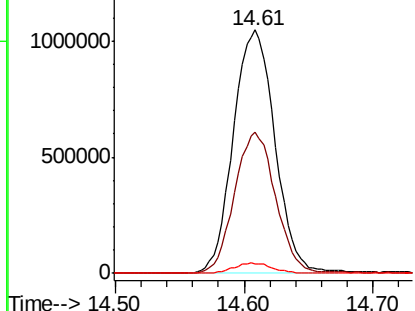
Tot Ion: 95 Resp: 2341702
 Ion Ratio Lower Upper
 95 100
 174 57.6 46.3 69.5
 175 4.0 3.4 5.0

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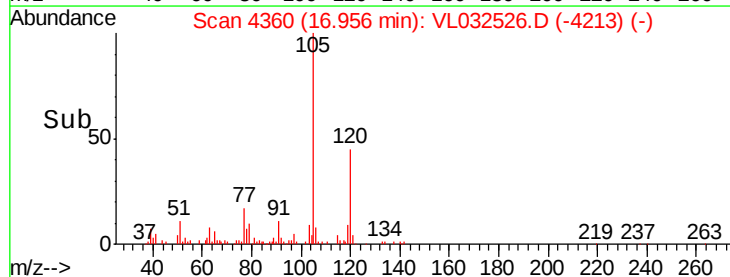
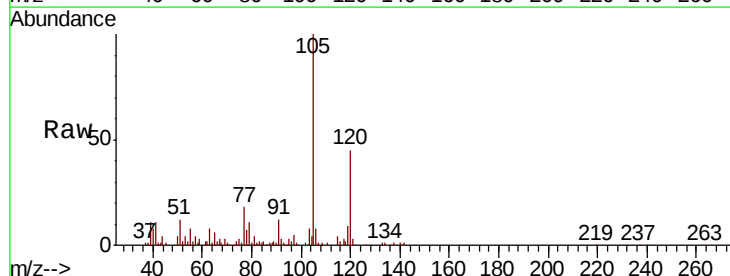
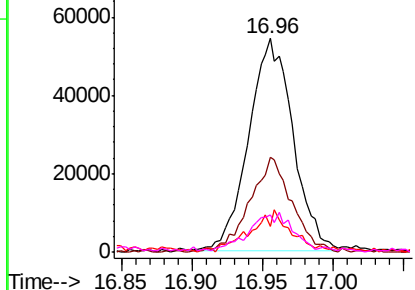
Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

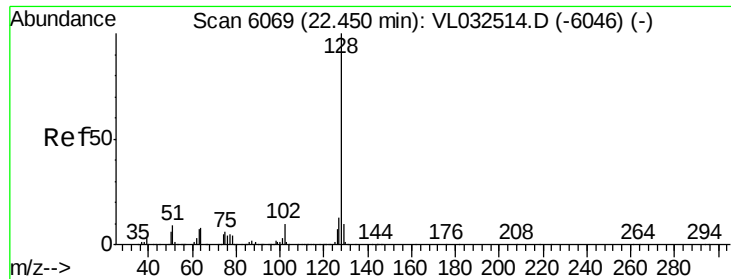


#74
 1,2,4-Trimethylbenzene
 Concen: 0.328 ppbv
 RT: 16.96 min Scan# 4360
 Delta R.T. -0.03 min
 Lab File: VL032526.D
 Acq: 25 Sep 2018 2:20

Tgt Ion: 105 Resp: 119984
 Ion Ratio Lower Upper
 105 100
 120 44.7 37.8 56.8
 91 11.0 41.4 62.0#
 77 17.4 18.6 28.0#

Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0





#79
Naphthalene
Concen: 0.186 ppbv m
RT: 22.44 min Scan# 6066
Delta R.T. -0.04 min
Lab File: VL032526.D
Acq: 25 Sep 2018 2:20

Instrument :
MSVOA_L
ClientSampleId :
INDOOR-AIRDUP

Tot Ion	Ratio	Lower	Upper
128	100		
127	17.8	10.2	15.2#
129	8.0	8.5	12.7#

Manual Integrations
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