

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092418\
 Data File : VL032544.D
 Acq On : 25 Sep 2018 14:15
 Operator : SY/AP
 Sample : J4999-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-EFFLUENT

Manual Integrations
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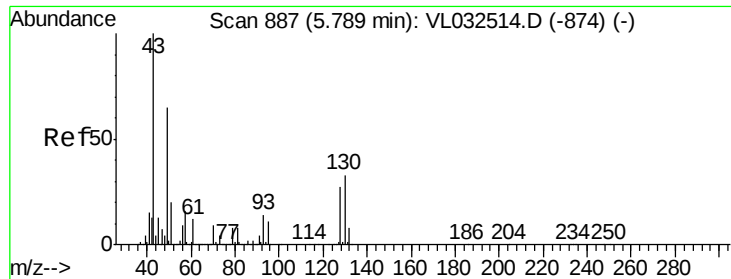
Quant Time: Sep 25 16:29:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 25 2018
 QLast Update : Tue Sep 25 05:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1361255	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2986762	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3158723	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.61	95	2372205	9.96	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	20458m	0.162	ppbv	
3) Chlorodifluoromethane	3.03	51	457023	4.037	ppbv	97
4) Chloromethane	3.19	50	9560m	0.145	ppbv	
9) Propene	3.06	41	8900m	0.181	ppbv	
11) Trichlorofluoromethane	4.03	101	65866	0.440	ppbv	93
13) Ethanol	3.67	45	22132m	1.499	ppbv	
15) Acetone	3.93	43	161571	1.352	ppbv	98
17) tert-Butyl alcohol	4.39	59	4896m	0.326	ppbv	
19) Isopropyl Alcohol	4.06	45	50914	0.612	ppbv #	97
20) Methylene Chloride	4.43	84	201357	3.480	ppbv	95
26) Hexane	5.80	57	44724	0.341	ppbv #	53
29) Chloroform	5.87	83	307361	1.530	ppbv	95
32) 1,1,1-Trichloroethane	6.64	97	12974m	0.061	ppbv	
34) 2-Butanone	5.37	43	34823	0.196	ppbv	99
35) Carbon Tetrachloride	7.16	117	10499m	0.051	ppbv	
53) Toluene	9.98	91	422009	1.435	ppbv	98
59) m/p-Xylene	13.15	91	493637m	1.448	ppbv	
60) o-Xylene	13.88	91	1240030	3.736	ppbv	100
67) sec-Butylbenzene	17.49	105	78023m	0.130	ppbv	
72) 4-Ethyltoluene	16.04	105	1381244	3.834	ppbv	99
73) 1,3,5-Trimethylbenzene	16.19	105	3623840	10.351	ppbv	96
74) 1,2,4-Trimethylbenzene	16.96	105	2244446	5.954	ppbv #	69
79) Naphthalene	22.45	128	47002m	0.173	ppbv	

(#) = 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: VL032544.D

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Instrument :

MSVOA_L

ClientSampleId :

SVE-EFFLUENT

Tot Ion: 49 Resp: 1361255

Ion Ratio Lower Upper

49 100

128 42.9 20.7 62.1

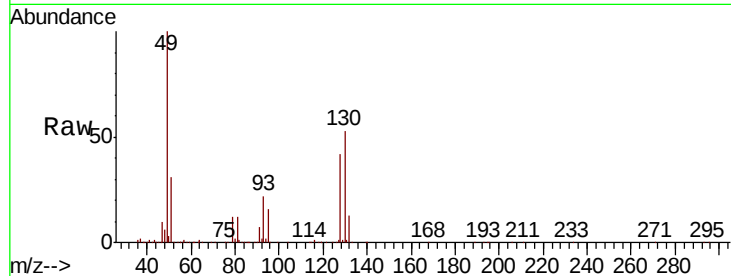
130 54.5 26.6 79.7

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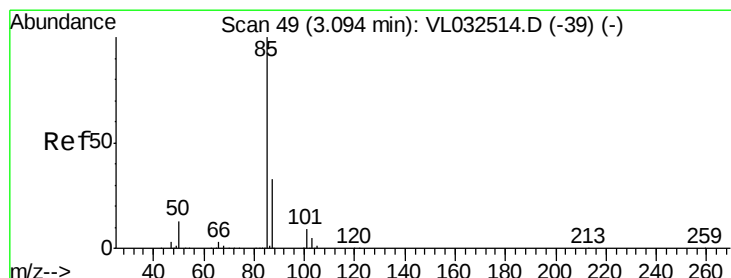
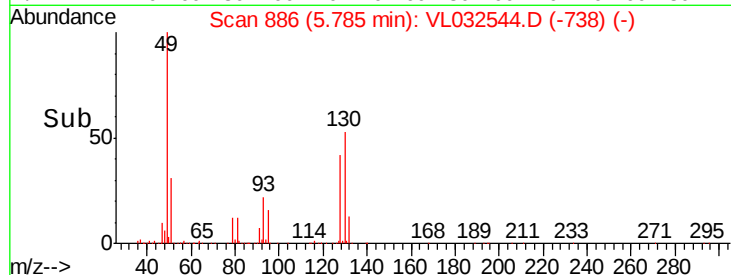
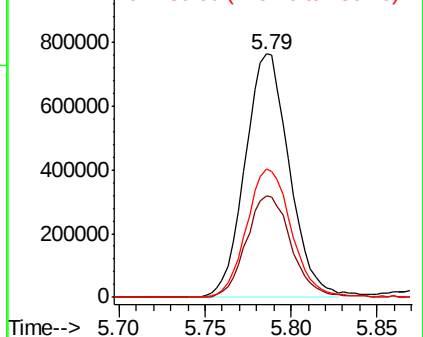
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.162 ppbv m

RT: 3.09 min Scan# 48

Delta R.T. -0.02 min

Lab File: VL032544.D

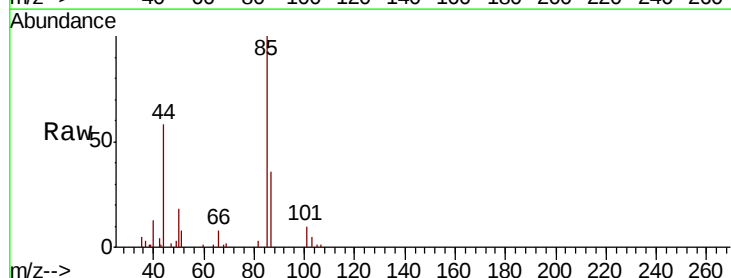
Acq: 25 Sep 2018 14:15

Tgt Ion: 85 Resp: 20458

Ion Ratio Lower Upper

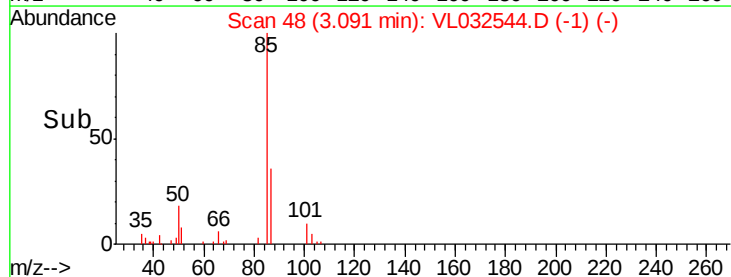
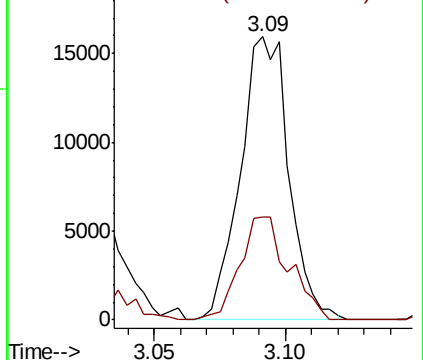
85 100

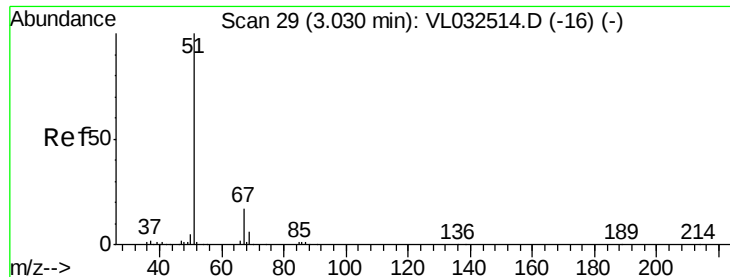
87 36.2 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 4.037 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL032544.D

Acq: 25 Sep 2018 14:15

Instrument :

MSVOA_L

ClientSampleId :

SVE-EFFLUENT

Tot Ion: 51 Resp: 457023

Ion Ratio Lower Upper

51 100

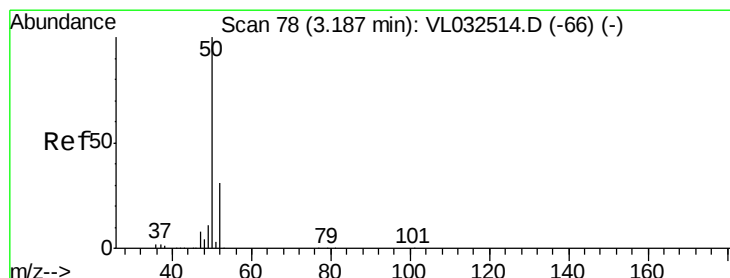
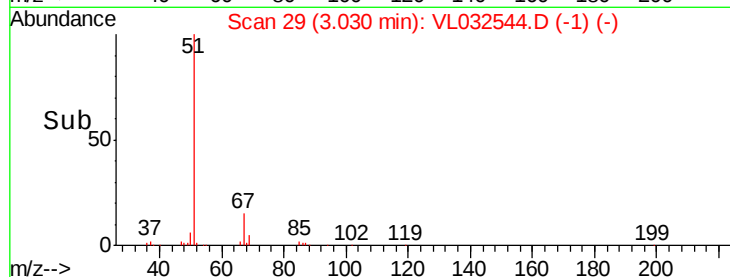
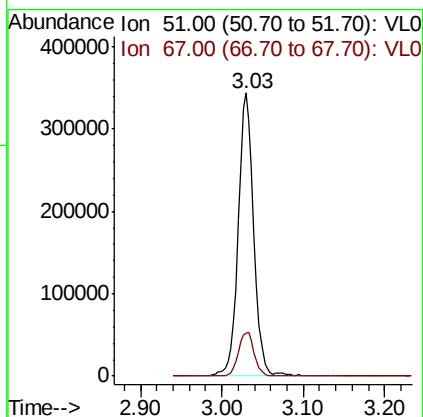
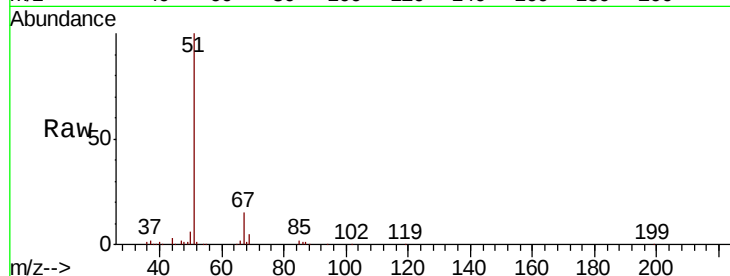
67 15.9 13.8 20.8

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#4

Chloromethane

Concen: 0.145 ppbv m

RT: 3.19 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL032544.D

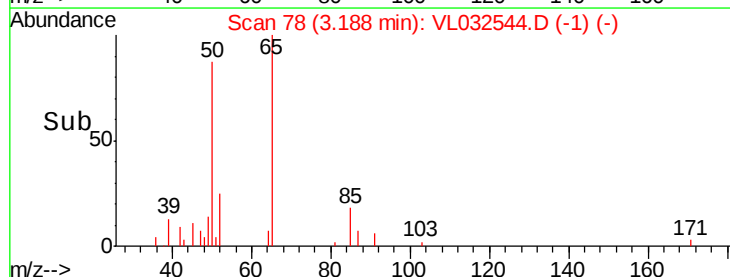
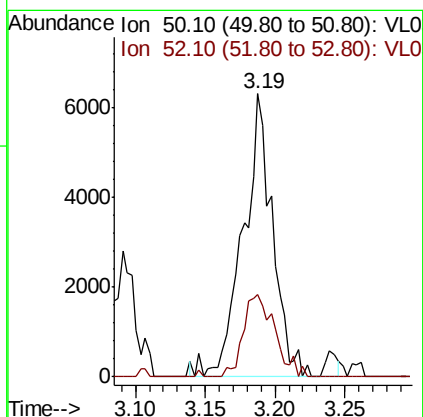
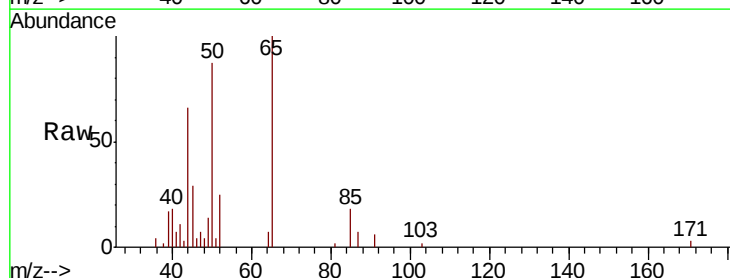
Acq: 25 Sep 2018 14:15

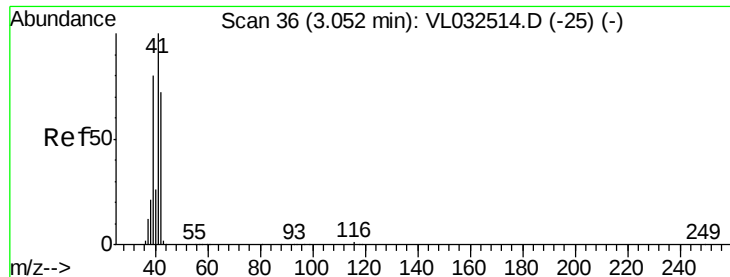
Tgt Ion: 50 Resp: 9560

Ion Ratio Lower Upper

50 100

52 29.1 25.6 38.4





#9

Propene

Concen: 0.181 ppbv m

RT: 3.06 min Scan# 37

Delta R.T. -0.01 min

Lab File: VL032544.D

Acq: 25 Sep 2018 14:15

Instrument :

MSVOA_L

ClientSampleId :

SVE-EFFLUENT

Tot Ion: 41 Resp: 8900

Ion Ratio Lower Upper

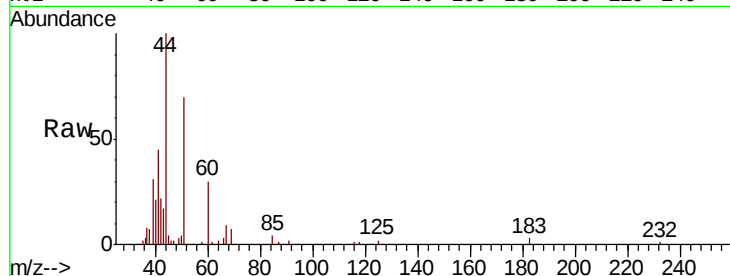
41 100

42 35.7 56.6 84.8#

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.06

6000

5000

4000

3000

2000

1000

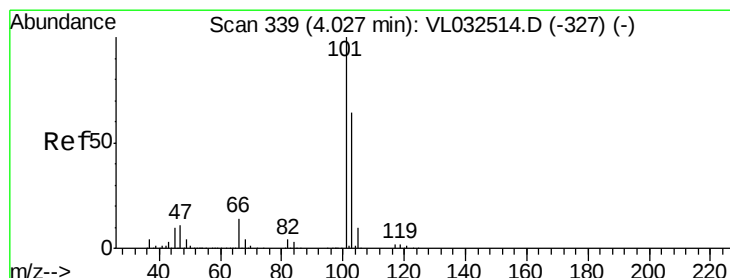
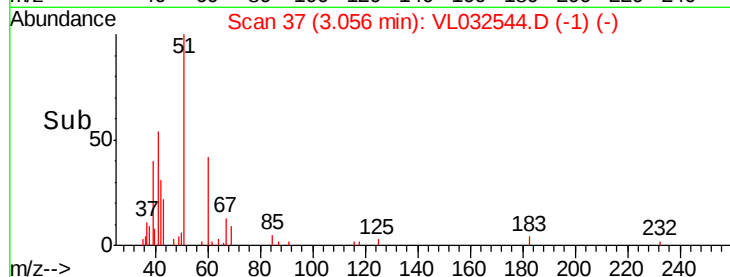
0

Time-->

3.00

3.05

3.10



#11

Trichlorofluoromethane

Concen: 0.440 ppbv

RT: 4.03 min Scan# 339

Delta R.T. -0.01 min

Lab File: VL032544.D

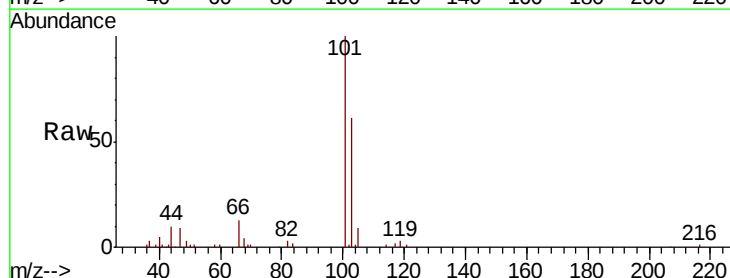
Acq: 25 Sep 2018 14:15

Tgt Ion: 101 Resp: 65866

Ion Ratio Lower Upper

101 100

103 60.5 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.03

50000

40000

30000

20000

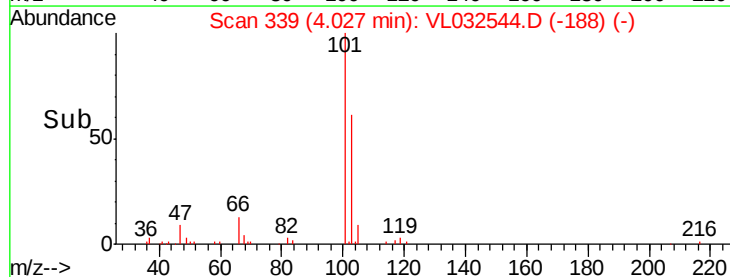
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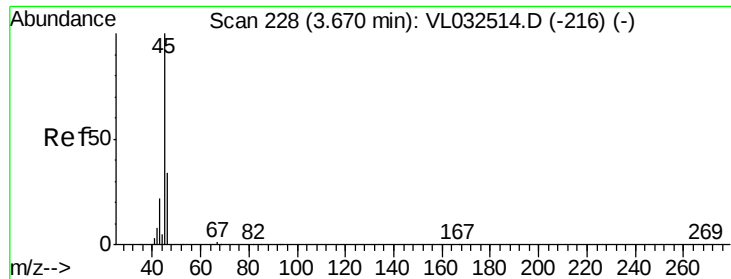
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Time-->

4.00

4.05





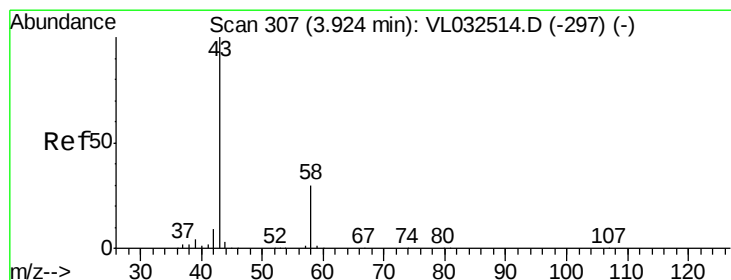
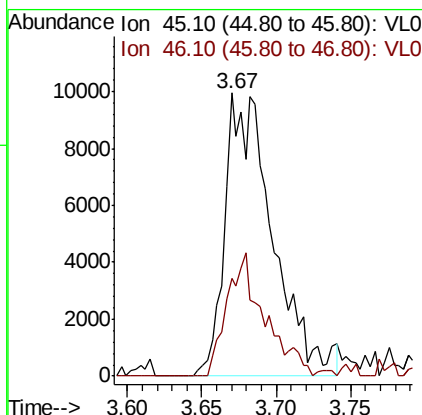
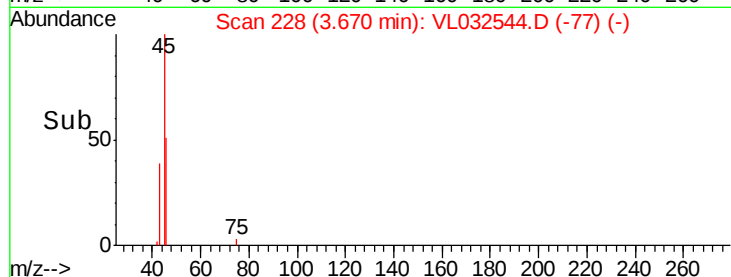
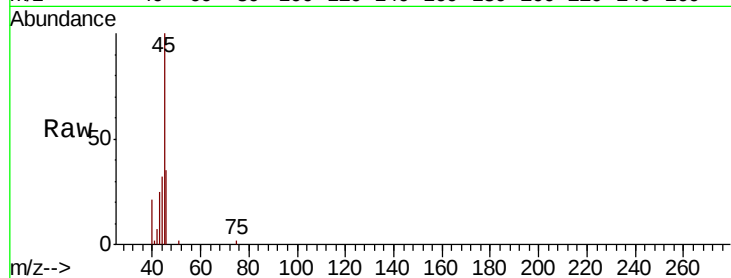
#13
Ethanol
Concen: 1.499 ppbv m
RT: 3.67 min Scan# 228
Delta R.T. -0.01 min
Lab File: VL032544.D
Acq: 25 Sep 2018 14:15

Instrument :
MSVOA_L
ClientSampleId :
SVE-EFFLUENT

Tot Ion	45	Resp	22132
Ion Ratio	100	Lower	Upper
45	100		
46	0.0	14.2	56.8#

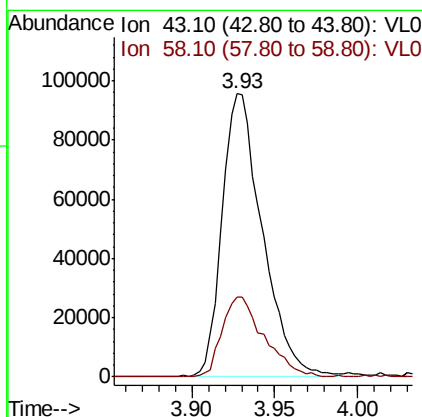
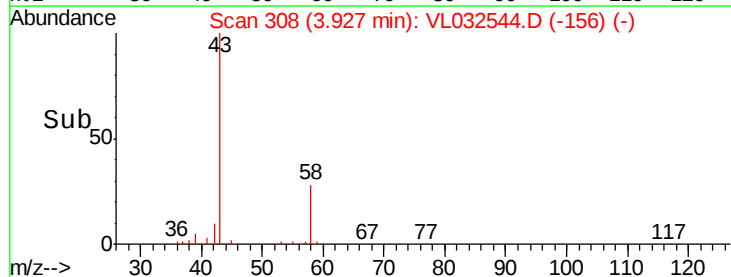
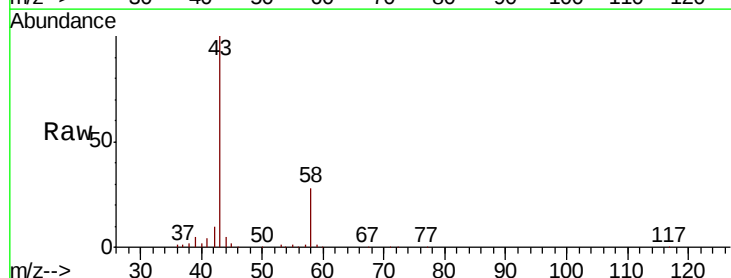
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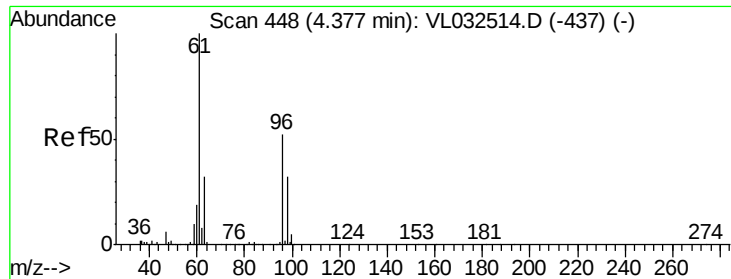
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#15
Acetone
Concen: 1.352 ppbv
RT: 3.93 min Scan# 308
Delta R.T. -0.01 min
Lab File: VL032544.D
Acq: 25 Sep 2018 14:15

Tgt Ion	43	Resp	161571
Ion Ratio	100	Lower	Upper
43	100		
58	29.4	22.6	33.8





#17

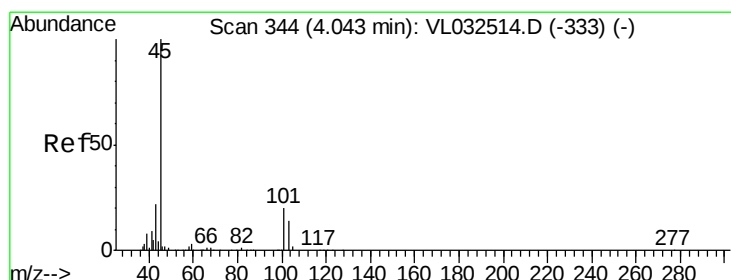
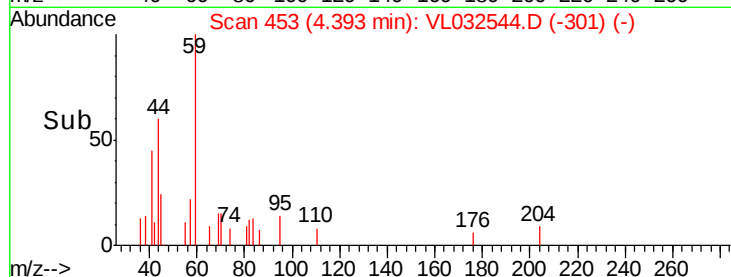
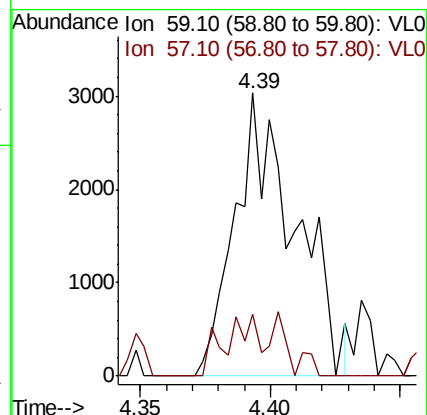
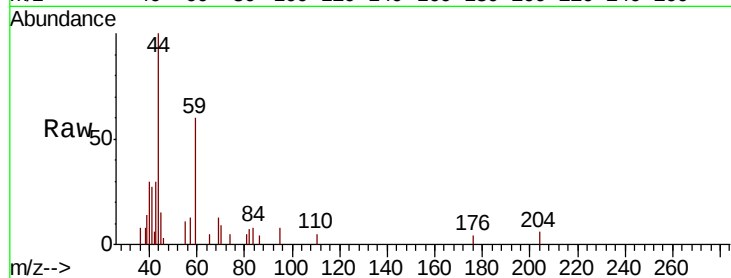
tert-Butyl alcohol
 Concen: 0.326 ppbv
 RT: 4.39 min Scan# 453
 Delta R.T. -0.01 min
 Lab File: VL032544.D
 Acq: 25 Sep 2018 14:15

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-EFFLUENT

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	0.0	0.0

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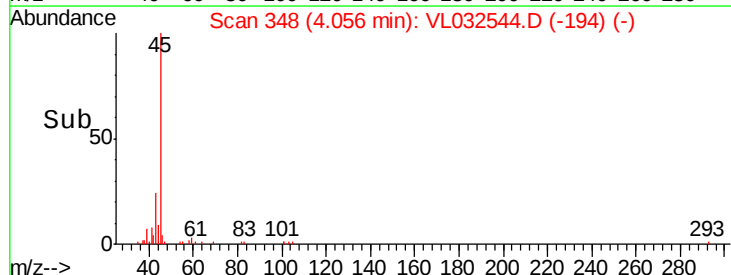
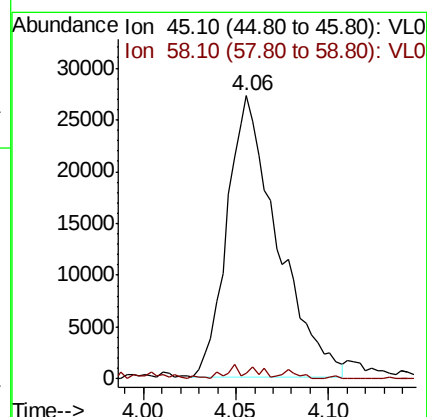
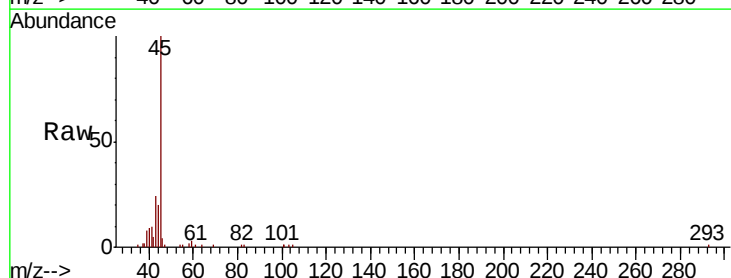
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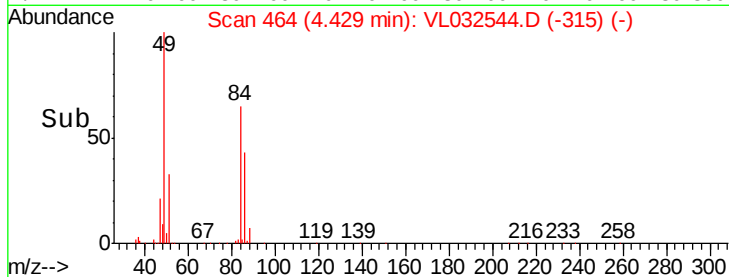
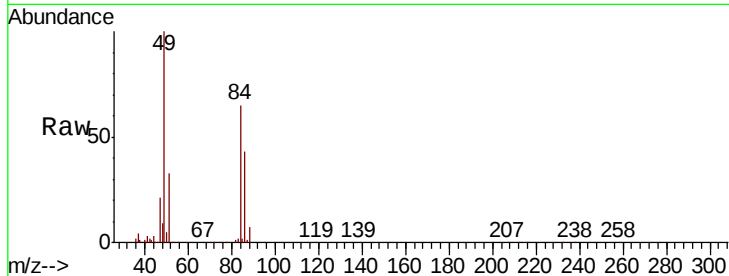
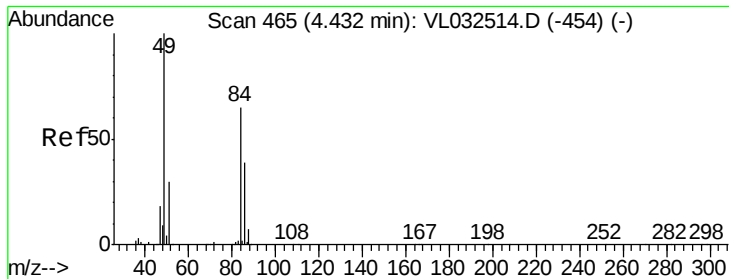


#19

Isopropyl Alcohol
 Concen: 0.612 ppbv
 RT: 4.06 min Scan# 348
 Delta R.T. -0.01 min
 Lab File: VL032544.D
 Acq: 25 Sep 2018 14:15

Tgt Ion	Ratio	Lower	Upper
45	100		
58	3.7	2.0	3.0#





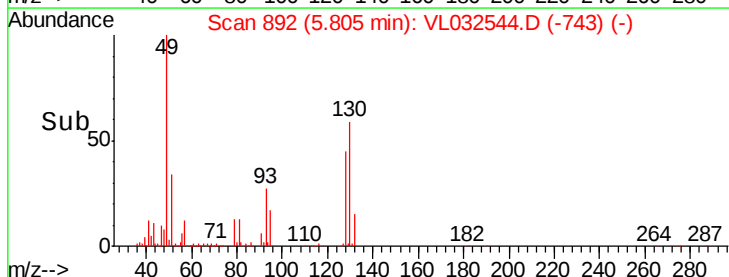
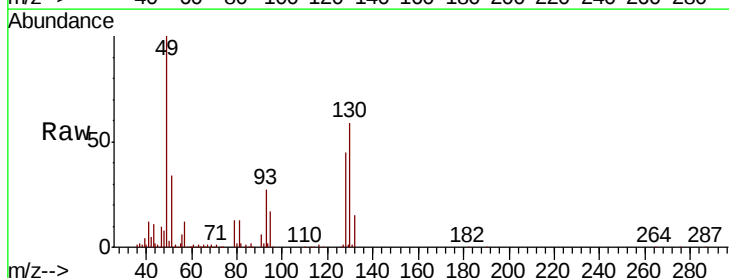
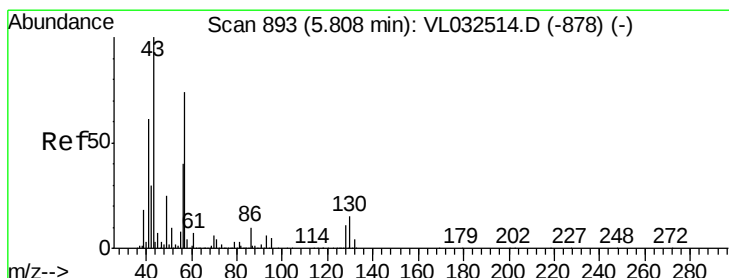
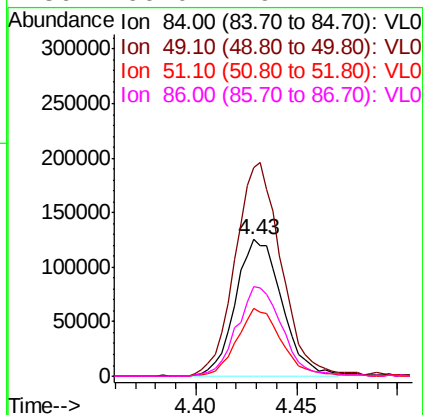
#20
Methvlene Chloride
Concen: 3.480 ppbv
RT: 4.43 min Scan# 464
Delta R.T. -0.02 min
Lab File: VL032544.D
Acq: 25 Sep 2018 14:15

Tot Ion:	84	Resp:	201357
Ion	Ratio	Lower	Upper
84	100		
49	153.0	119.1	178.7
51	49.7	35.2	52.8
86	66.0	49.4	74.2

Instrument :
MSVOA_L
ClientSampleId :
SVE-EFFLUENT

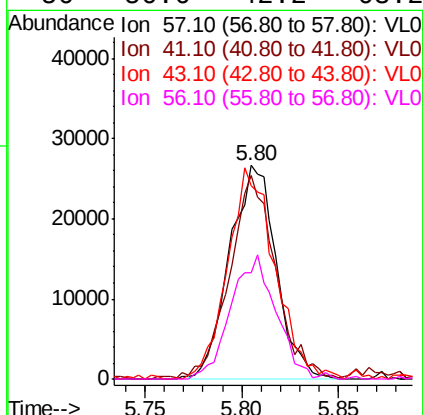
Manual Integrations
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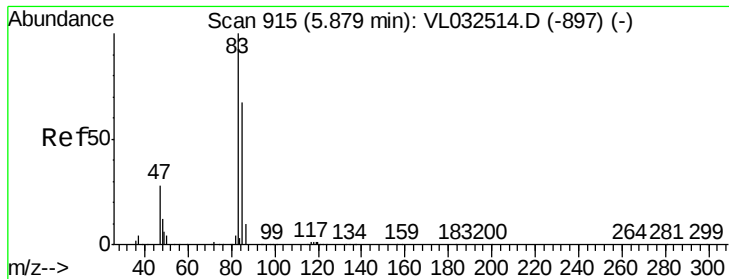
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#26
Hexane
Concen: 0.341 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032544.D
Acq: 25 Sep 2018 14:15

Tgt Ion:	57	Resp:	44724
Ion	Ratio	Lower	Upper
57	100		
41	95.4	69.0	103.4
43	101.8	172.1	258.1#
56	56.6	42.2	63.2





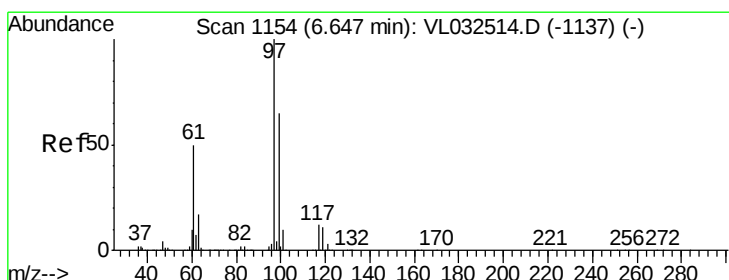
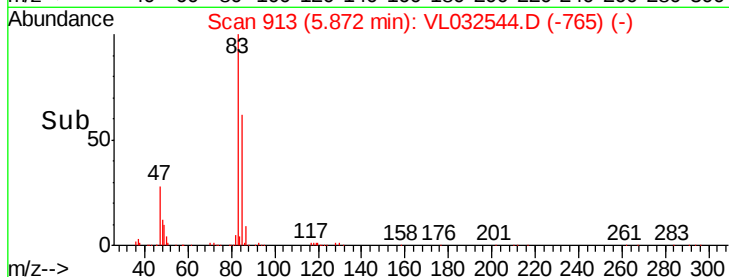
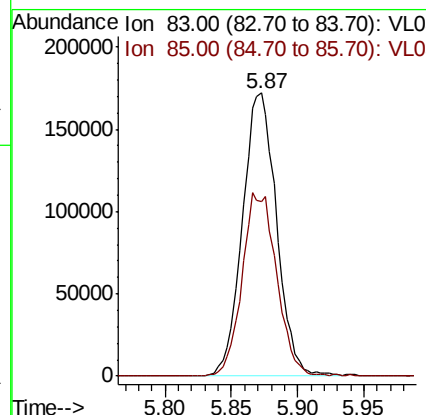
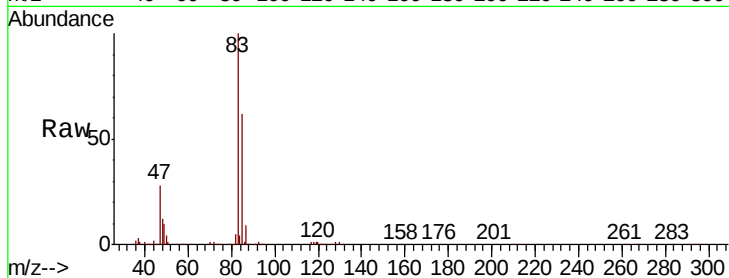
#29
Chloroform
Concen: 1.530 ppbv
RT: 5.87 min Scan# 913
Delta R.T. -0.02 min
Lab File: VL032544.D
Acq: 25 Sep 2018 14:15

Instrument :
MSVOA_L
ClientSampleId :
SVE-EFFLUENT

Tot Ion	Ratio	Lower	Upper
83	100		
85	61.5	52.5	78.7

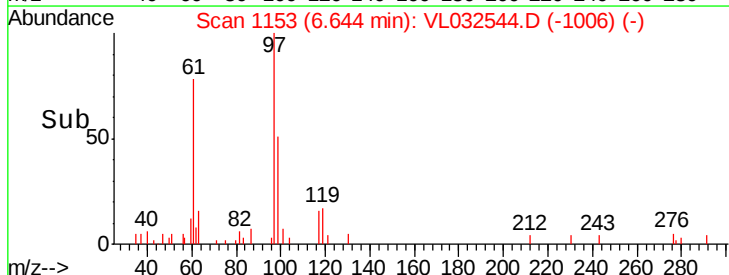
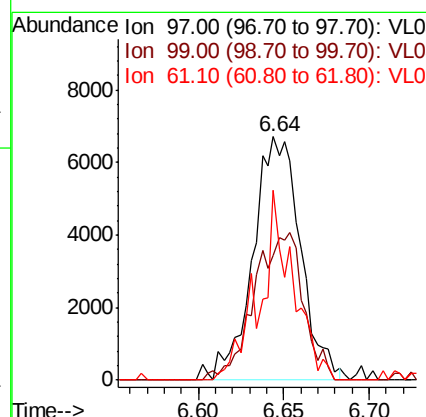
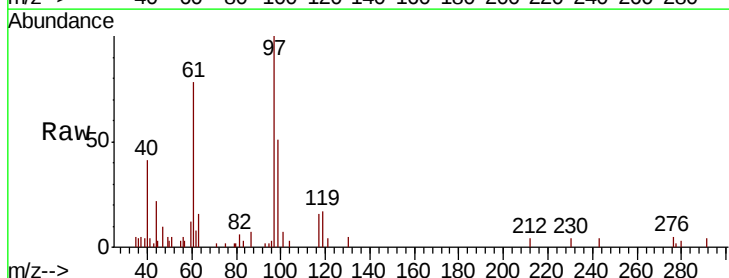
Manual Integrations
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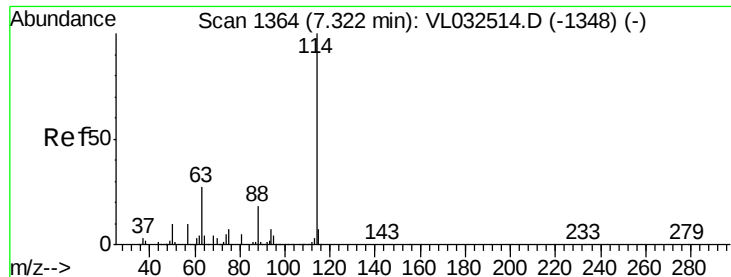
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#32
1,1,1-Trichloroethane
Concen: 0.061 ppbv m
RT: 6.64 min Scan# 1153
Delta R.T. -0.03 min
Lab File: VL032544.D
Acq: 25 Sep 2018 14:15

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.1	78.1#
61	55.0	42.5	63.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.32 min Scan# 1363

Delta R.T. -0.03 min

Lab File: VL032544.D

Acq: 25 Sep 2018 14:15

Instrument :

MSVOA_L

ClientSampleId :

SVE-EFFLUENT

Tot Ion:114 Resp: 2986762

Ion Ratio Lower Upper

114 100

63 27.0 22.2 33.4

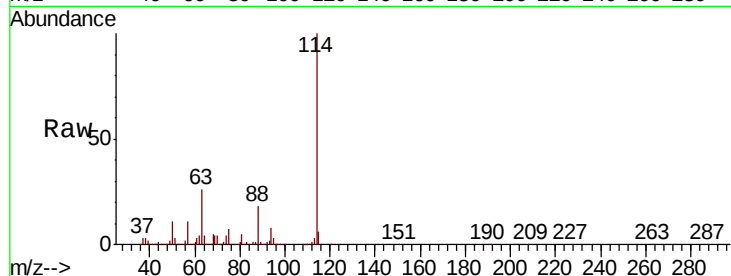
88 18.8 15.0 22.4

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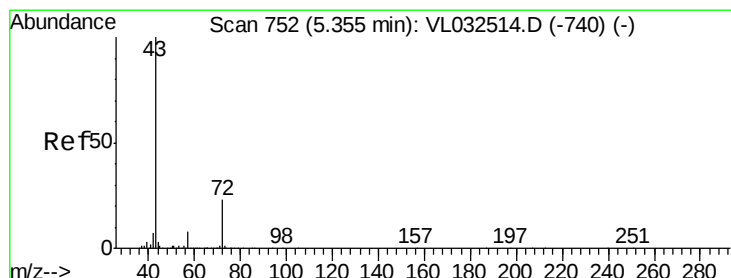
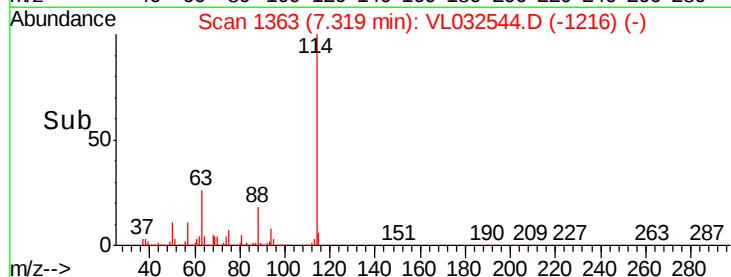
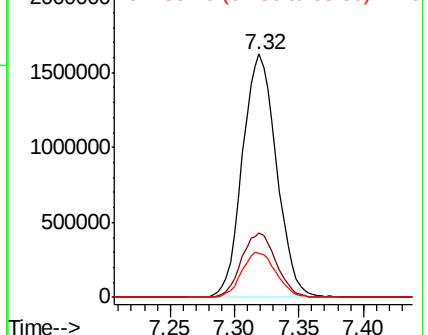
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Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.196 ppbv

RT: 5.37 min Scan# 757

Delta R.T. -0.00 min

Lab File: VL032544.D

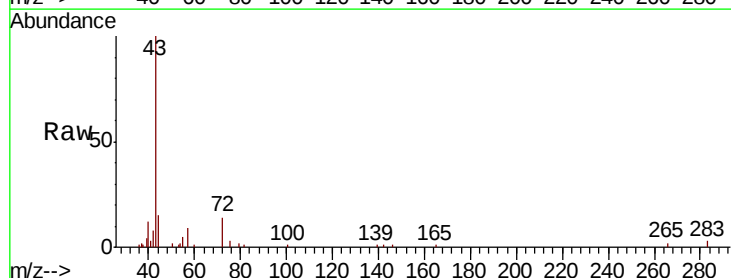
Acq: 25 Sep 2018 14:15

Tgt Ion: 43 Resp: 34823

Ion Ratio Lower Upper

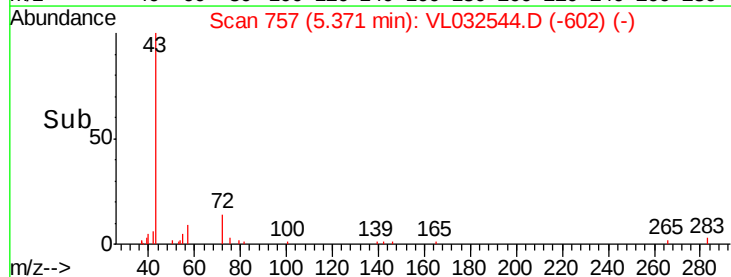
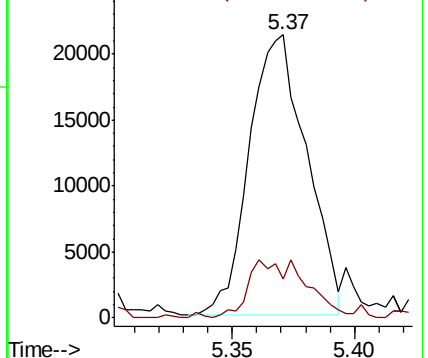
43 100

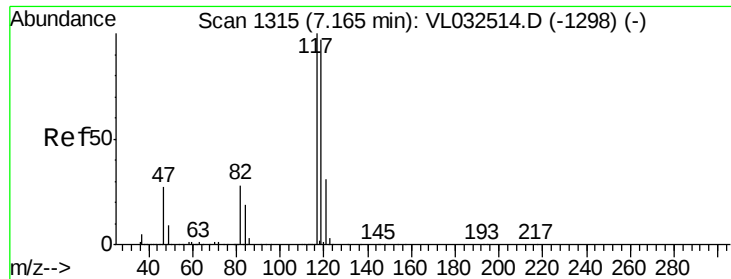
72 22.8 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.051 ppbv m

RT: 7.16 min Scan# 1314

Delta R.T. -0.02 min

Lab File: VL032544.D

Acq: 25 Sep 2018 14:15

Instrument :

MSVOA_L

ClientSampleId :

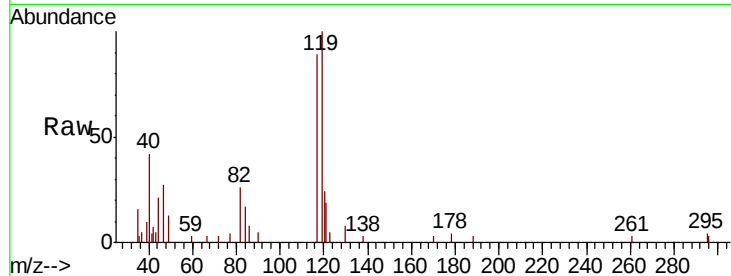
SVE-EFFLUENT

Tot Ion	Ratio	Lower	Upper
117	100		
119	111.8	76.6	115.0
121	21.0	24.6	36.8#

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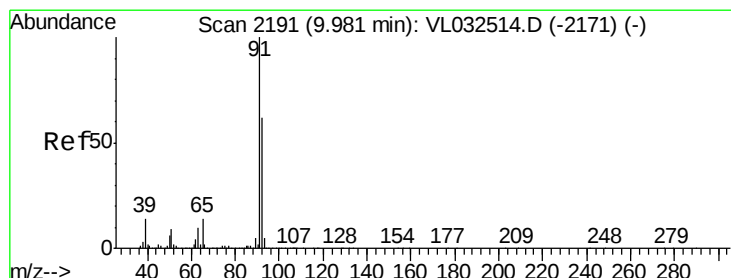
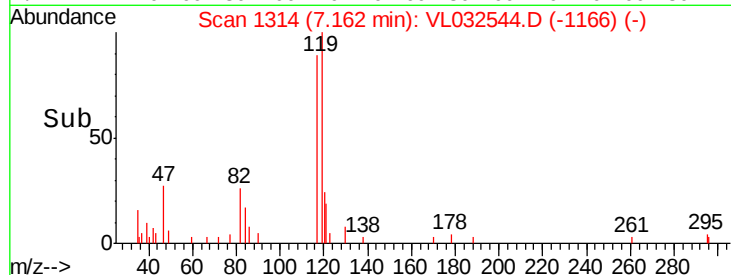
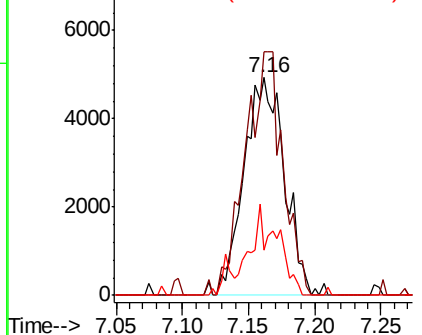
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#53

Toluene

Concen: 1.435 ppbv

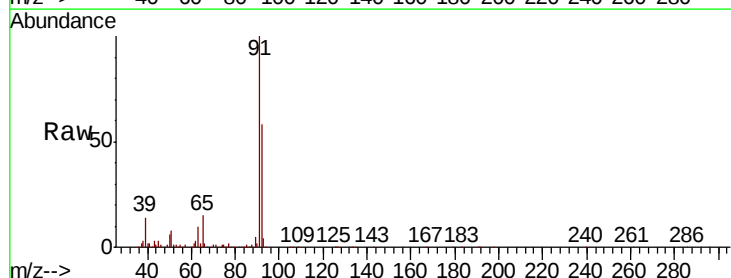
RT: 9.98 min Scan# 2191

Delta R.T. -0.02 min

Lab File: VL032544.D

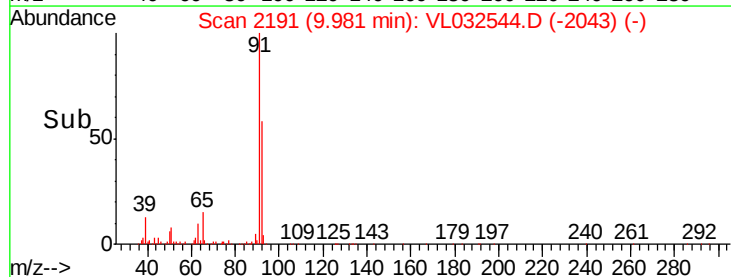
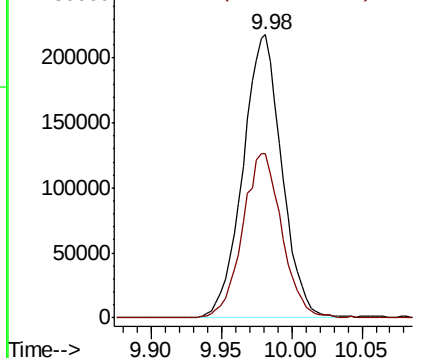
Acq: 25 Sep 2018 14:15

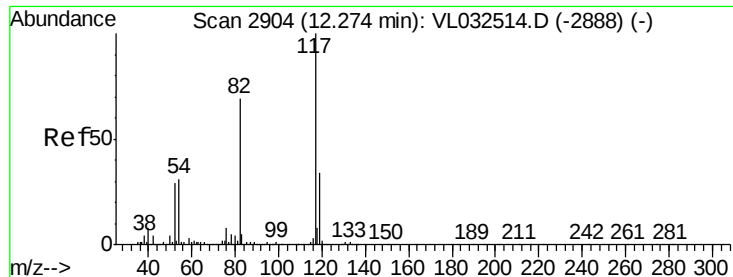
Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.7	48.1	72.1



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: VL032544.D

Acq: 25 Sep 2018 14:15

Instrument :

MSVOA_L

ClientSampleId :

SVE-EFFLUENT

Tot Ion:117 Resp: 3158723

Ion Ratio Lower Upper

117 100

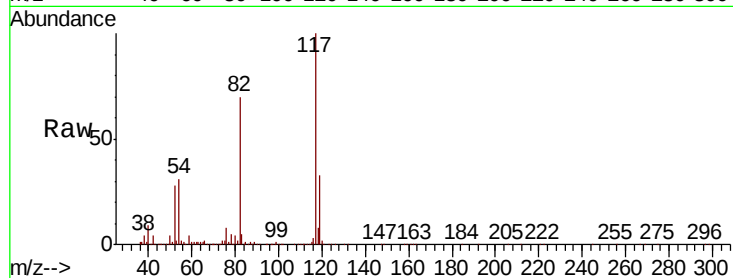
82 68.5 53.0 79.6

119 32.7 45.9 68.9#

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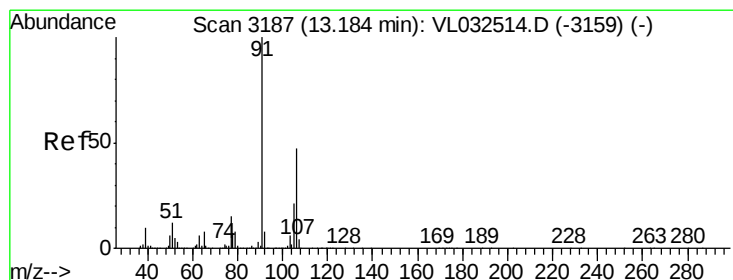
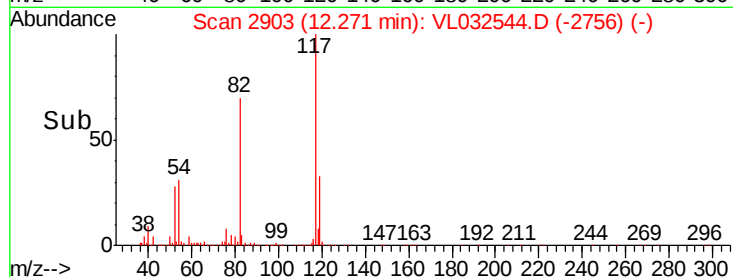
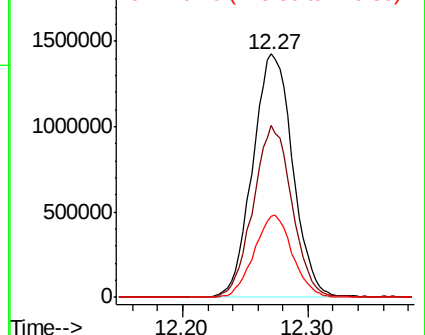
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#59

m/p-Xylene

Concen: 1.448 ppbv m

RT: 13.15 min Scan# 3178

Delta R.T. -0.05 min

Lab File: VL032544.D

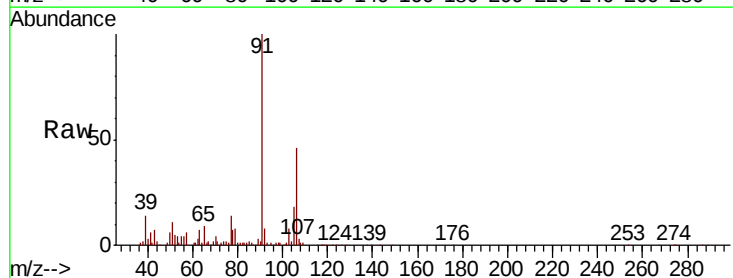
Acq: 25 Sep 2018 14:15

Tgt Ion: 91 Resp: 493637

Ion Ratio Lower Upper

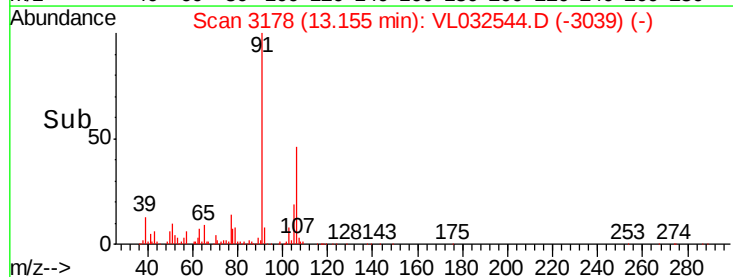
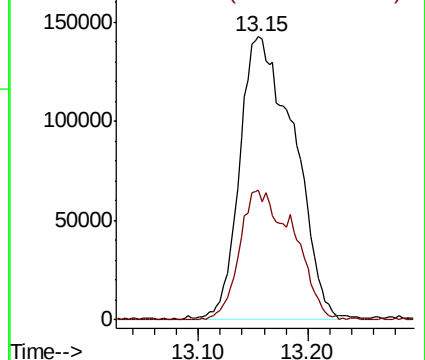
91 100

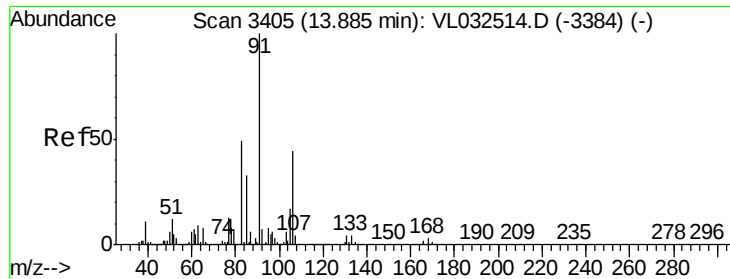
106 0.0 36.6 55.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





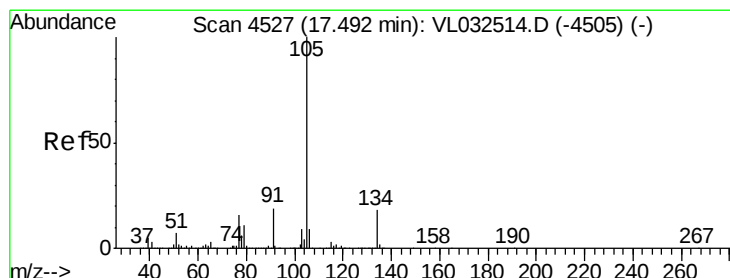
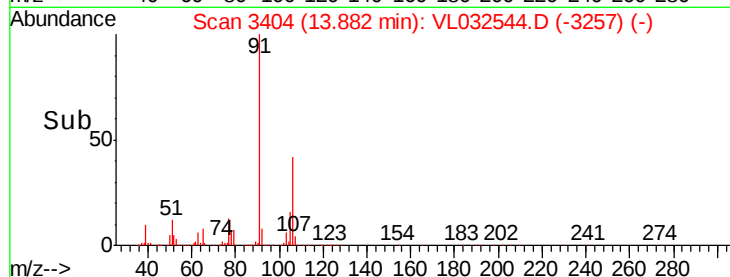
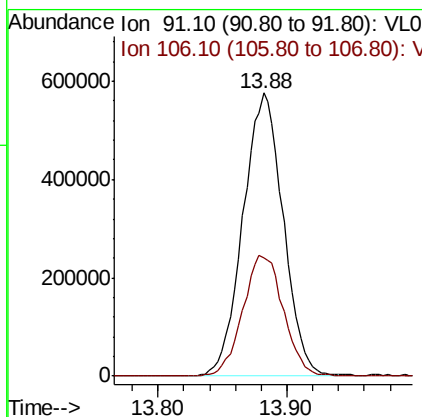
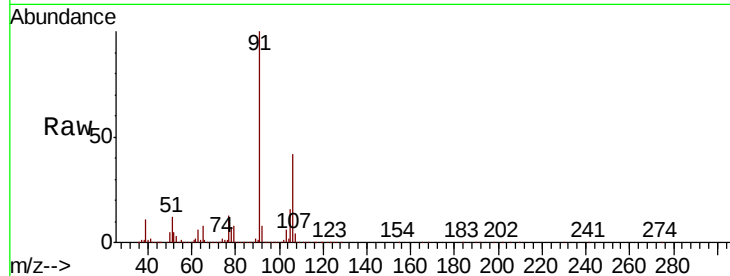
#60
o-Xylene
Concen: 3.736 ppbv
RT: 13.88 min Scan# 3404
Delta R.T. -0.03 min
Lab File: VL032544.D
Acq: 25 Sep 2018 14:15

Instrument :
MSVOA_L
ClientSampleId :
SVE-EFFLUENT

Tot Ion: 91 Resp: 1240030
Ion Ratio Lower Upper
91 100
106 43.5 21.9 65.7

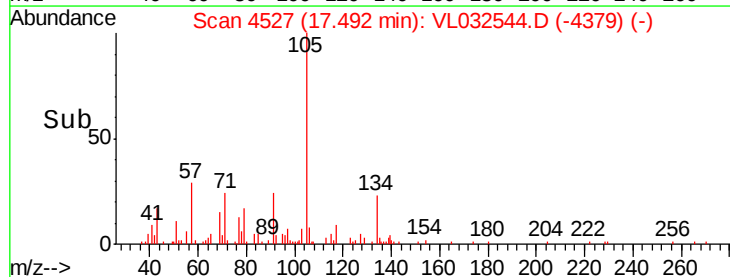
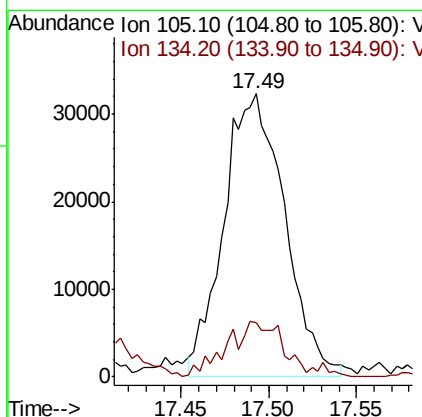
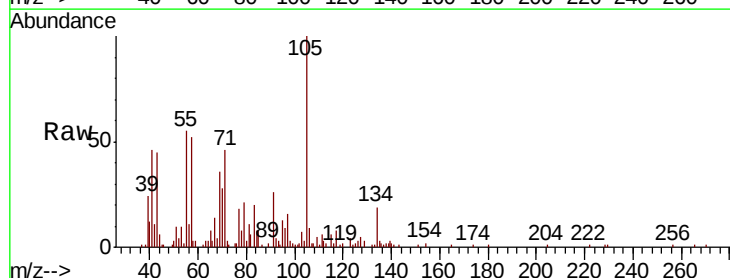
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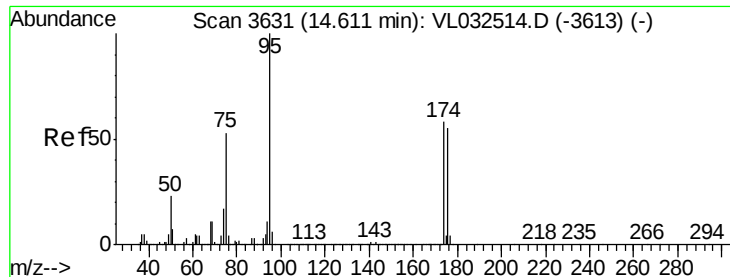
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#67
sec-Butylbenzene
Concen: 0.130 ppbv m
RT: 17.49 min Scan# 4527
Delta R.T. -0.02 min
Lab File: VL032544.D
Acq: 25 Sep 2018 14:15

Tgt Ion:105 Resp: 78023
Ion Ratio Lower Upper
105 100
134 19.0 14.4 21.6





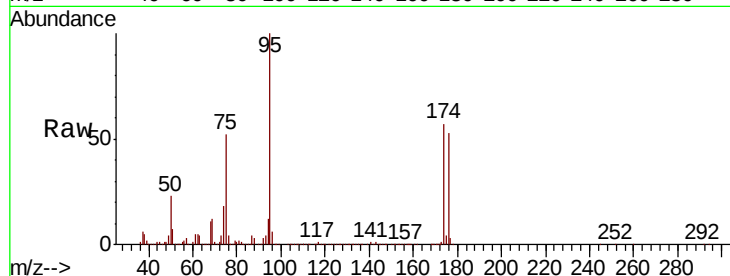
#68
1-Bromo-4-Fluorobenzene
Concen: 9.959 ppbv
RT: 14.61 min Scan# 3630
Delta R.T. -0.03 min
Lab File: VL032544.D
Acq: 25 Sep 2018 14:15

Instrument :
MSVOA_L
ClientSampleId :
SVE-EFFLUENT

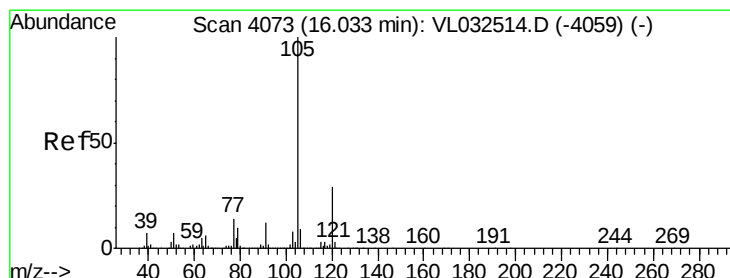
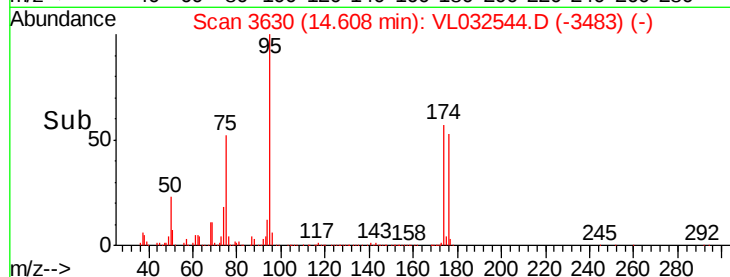
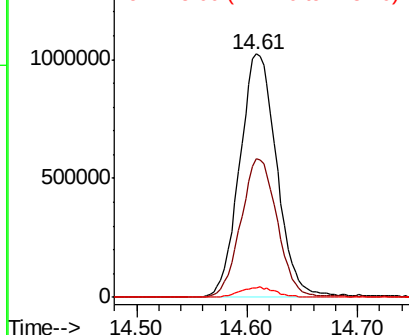
Tot Ion: 95 Resp: 2372205
Ion Ratio Lower Upper
95 100
174 56.3 46.3 69.5
175 4.2 3.4 5.0

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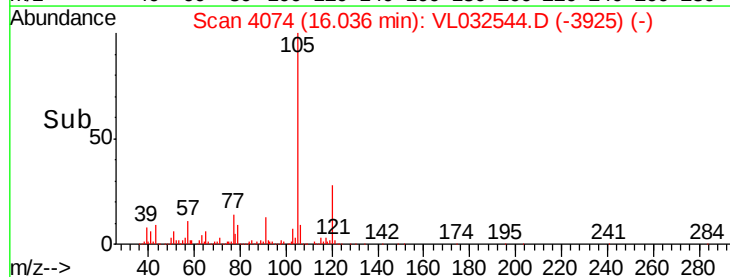
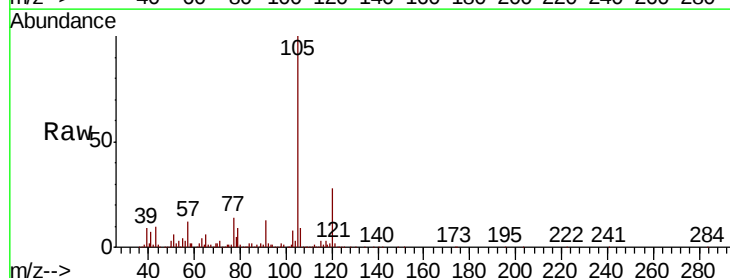
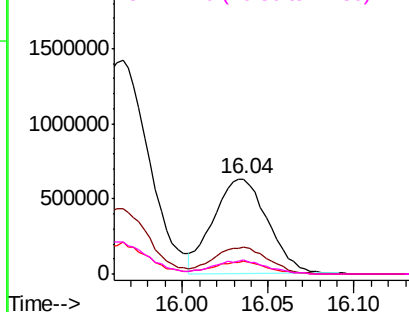
Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

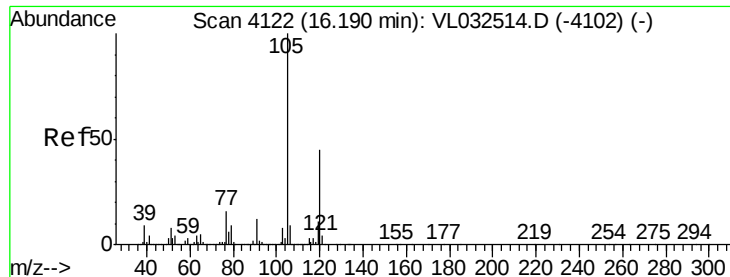


#72
4-Ethyltoluene
Concen: 3.834 ppbv
RT: 16.04 min Scan# 4074
Delta R.T. -0.02 min
Lab File: VL032544.D
Acq: 25 Sep 2018 14:15

Tgt Ion: 105 Resp: 1381244
Ion Ratio Lower Upper
105 100
120 28.6 23.5 35.3
91 12.7 10.2 15.2
77 14.0 11.1 16.7

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





#73

1,3,5-Trimethylbenzene

Concen: 10.351 ppbv

RT: 16.19 min Scan# 4123

Delta R.T. -0.02 min

Lab File: VL032544.D

Acq: 25 Sep 2018 14:15

Instrument :

MSVOA_L

ClientSampleId :

SVE-EFFLUENT

Tot Ion:105 Resp: 3623840

Ion Ratio Lower Upper

105 100

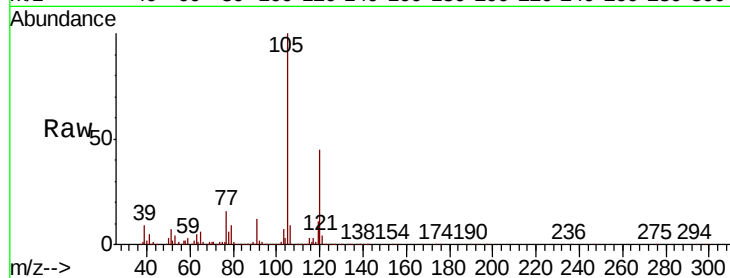
120 44.8 37.9 56.9

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.19

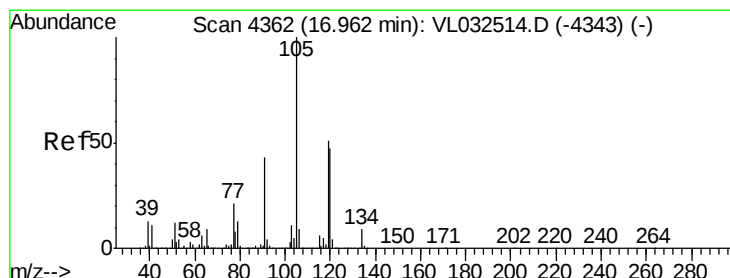
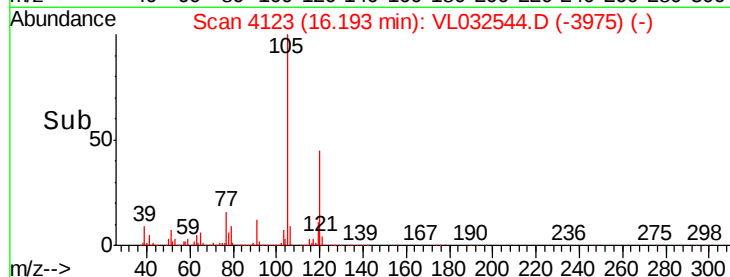
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 5.954 ppbv

RT: 16.96 min Scan# 4361

Delta R.T. -0.02 min

Lab File: VL032544.D

Acq: 25 Sep 2018 14:15

Tgt Ion:105 Resp: 2244446

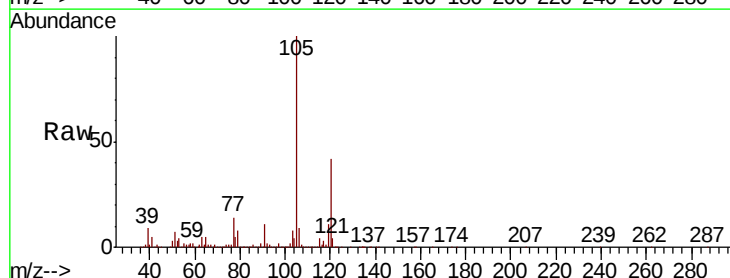
Ion Ratio Lower Upper

105 100

120 41.7 37.8 56.8

91 11.0 41.4 62.0#

77 14.1 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

16.96

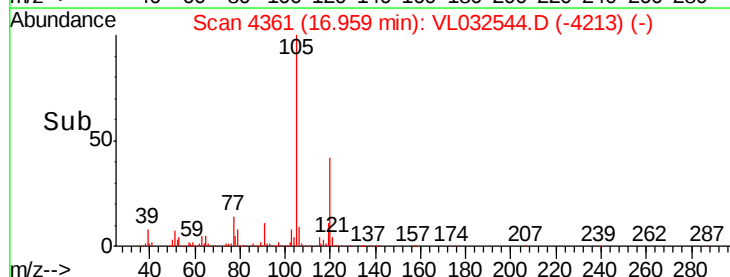
1500000

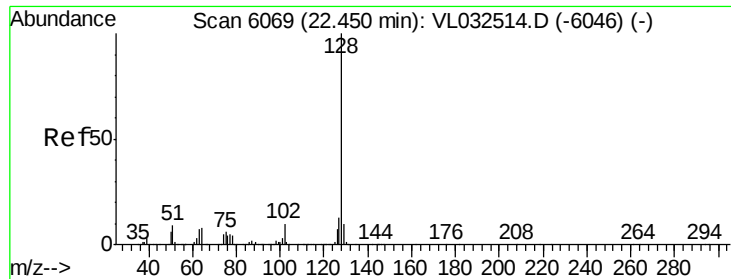
1000000

500000

0

Time-->





#79

Naphthalene

Concen: 0.173 ppbv m

RT: 22.45 min Scan# 6069

Delta R.T. -0.03 min

Lab File: VL032544.D

Acq: 25 Sep 2018 14:15

Instrument :

MSVOA_L

ClientSampleId :

SVE-EFFLUENT

Tot Ion:	128	Resp:	47002
Ion Ratio	Lower	Upper	
128	100		
127	6.3	10.2	15.2#
129	10.0	8.5	12.7

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