

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL112718\
 Data File : VL032818.D
 Acq On : 27 Nov 2018 22:09
 Operator : SY/AP
 Sample : J6046-02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-03

Manual Integrations
 APPROVED

MMDadoda
 11/28/2018 4:21:31 PM

Quant Time: Nov 28 15:54:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1295178	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3319553	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3048708	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2300825	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	64032	0.34	ppbv	98
3) Chlorodifluoromethane	3.02	51	8837772	86.07	ppbv	97
9) Propene	3.05	41	1021716	24.86	ppbv	98
11) Trichlorofluoromethane	4.02	101	1149987	6.55	ppbv	97
13) Ethanol	3.67	45	1484306	110.28	ppbv	100
15) Acetone	3.91	43	3516505	29.73	ppbv #	60
19) Isopropyl Alcohol	4.04	45	1126073m	14.29	ppbv	
20) Methylene Chloride	4.43	84	124922	2.04	ppbv	95
32) 1,1,1-Trichloroethane	6.63	97	23381	0.10	ppbv	97
34) 2-Butanone	5.34	43	12605909	73.22	ppbv	92
35) Carbon Tetrachloride	7.15	117	16331m	0.06	ppbv	
36) Benzene	7.02	78	91195	0.34	ppbv	96
38) Trichloroethene	7.97	130	8988m	0.08	ppbv	
41) Tetrahydrofuran	6.16	42	546711	5.54	ppbv	99
51) 2-Hexanone	10.31	43	127942m	0.74	ppbv	
52) Tetrachloroethene	11.39	164	1801265	19.59	ppbv	99
53) Toluene	9.96	91	1176089	4.26	ppbv	99
58) Ethyl Benzene	12.88	91	46446m	0.13	ppbv	
59) m/p-Xylene	13.14	91	104541m	0.32	ppbv	

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

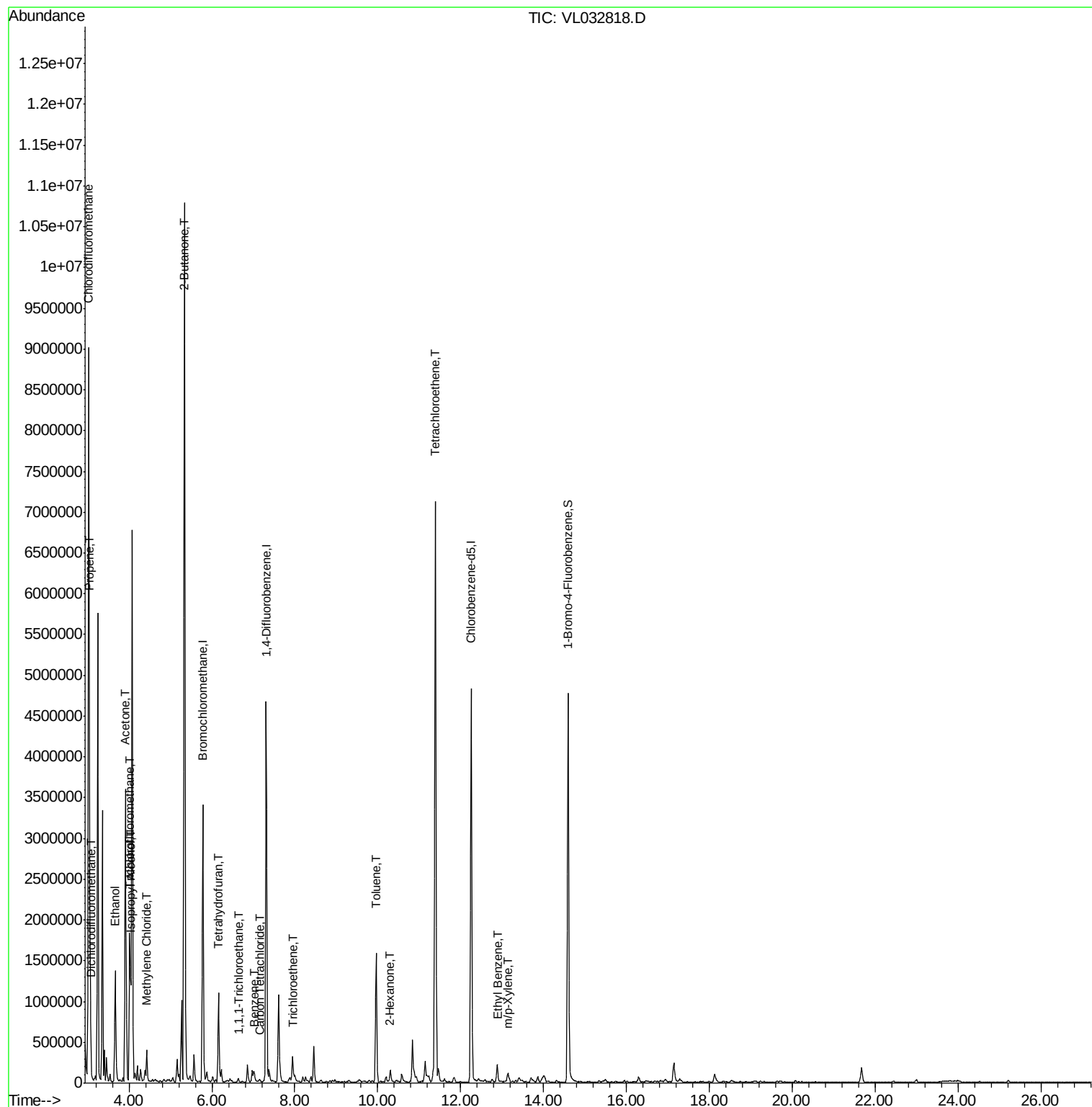
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL112718\
Data File : VL032818.D
Acq On : 27 Nov 2018 22:09
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Sample : J6046-02
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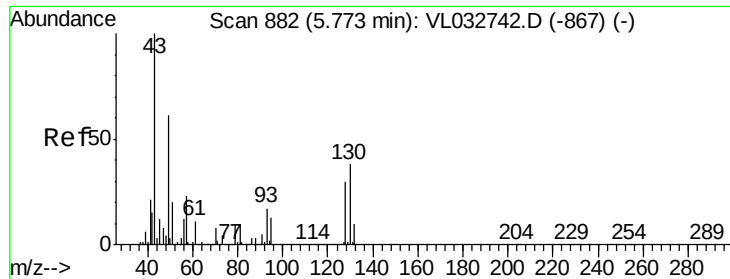
Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-03

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11/28/2018 4:21:31 PM

Quant Time: Nov 28 15:54:28 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.01 min

Lab File: VL032818.D

Acq: 27 Nov 2018 22:09

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-03

Tgt Ion: 49 Resp: 1295178

Ion Ratio Lower Upper

49 100

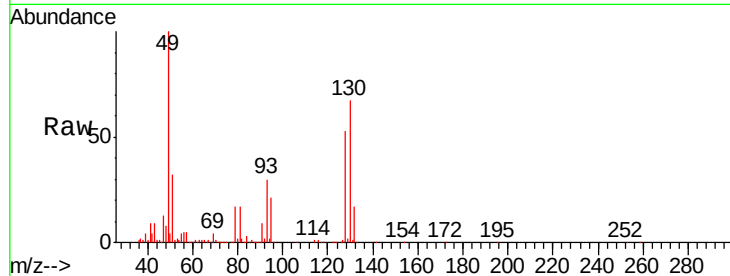
128 52.0 24.9 74.6

130 67.6 31.4 94.2

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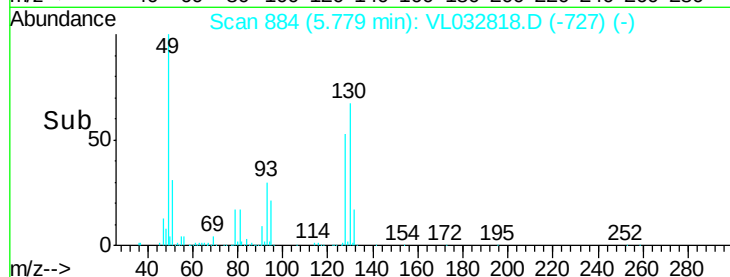


Abundance Ion 49.10 (48.80 to 49.80): VL0

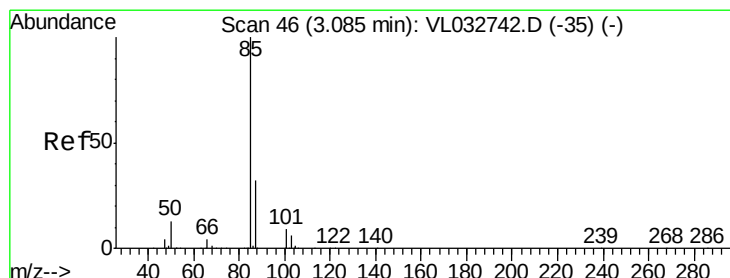
Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 0.34 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032818.D

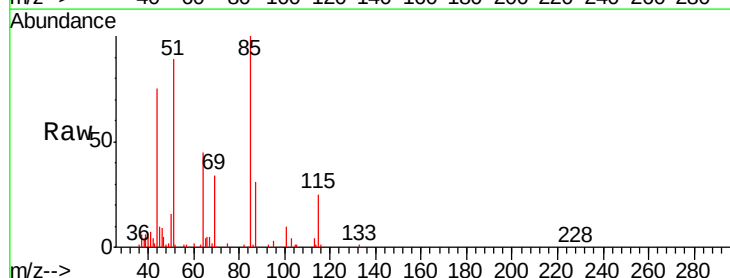
Acq: 27 Nov 2018 22:09

Tgt Ion: 85 Resp: 64032

Ion Ratio Lower Upper

85 100

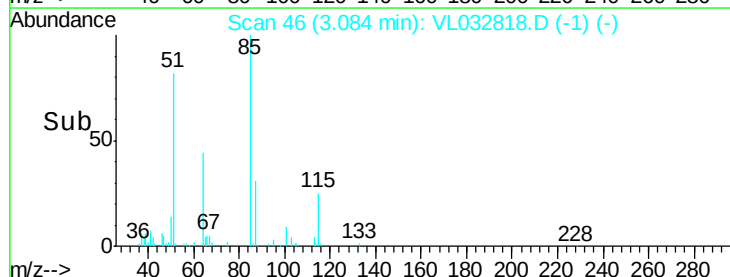
87 31.3 26.0 39.0



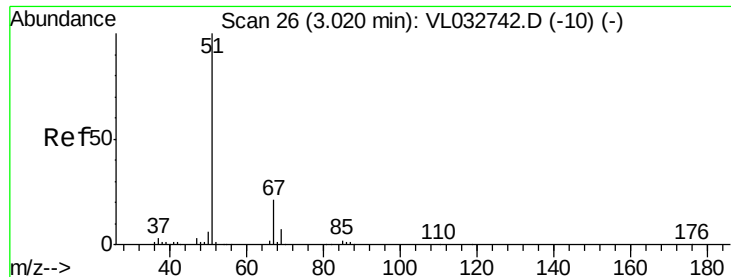
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->



Time-->



#3

Chlorodifluoromethane

Concen: 86.07 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL032818.D

Acq: 27 Nov 2018 22:09

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-03

Tgt Ion: 51 Resp: 8837772

Ion Ratio Lower Upper

51 100

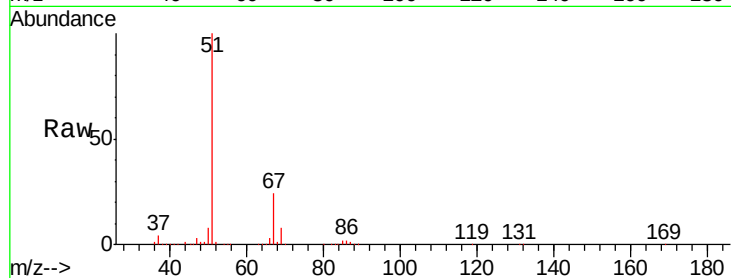
67 21.5 16.1 24.1

Manual Integrations

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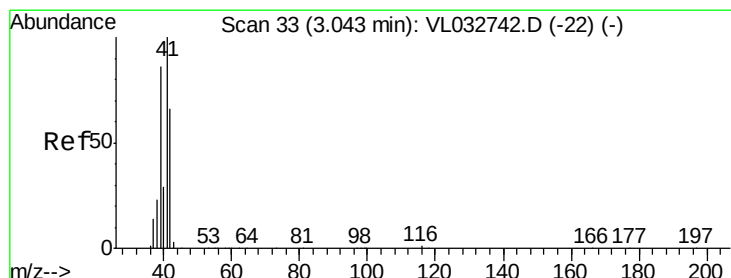
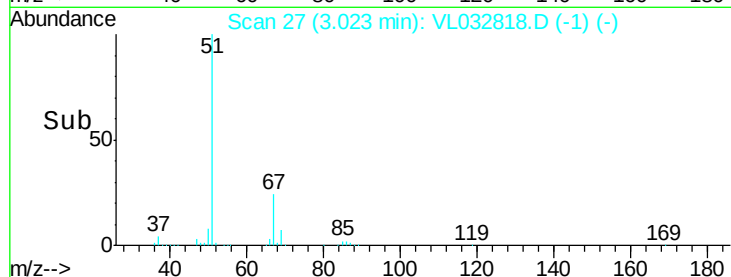
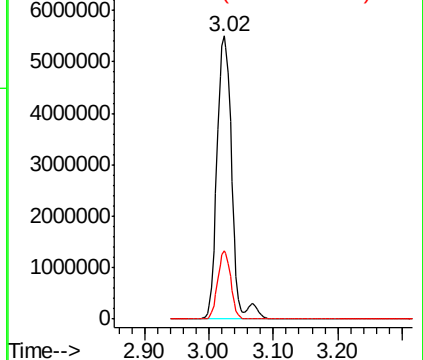
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 24.86 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032818.D

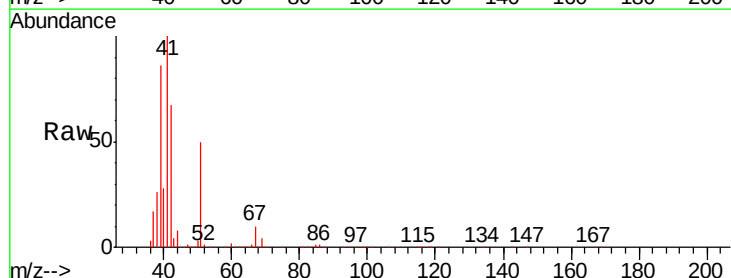
Acq: 27 Nov 2018 22:09

Tgt Ion: 41 Resp: 1021716

Ion Ratio Lower Upper

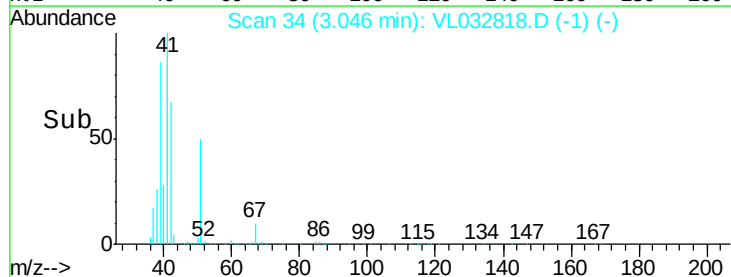
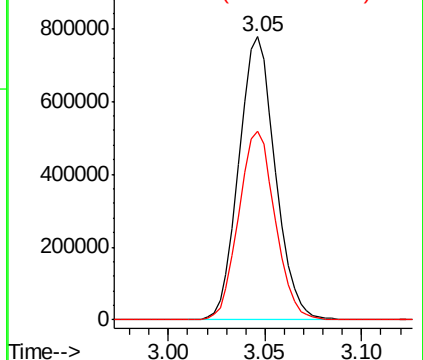
41 100

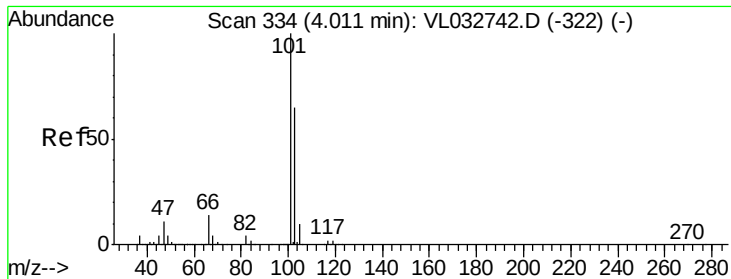
42 66.9 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





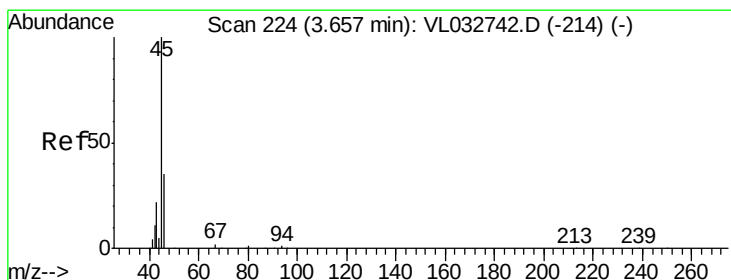
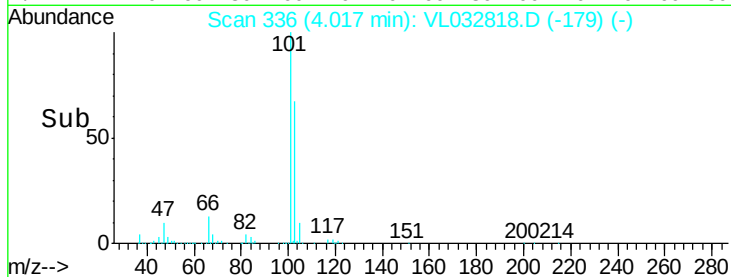
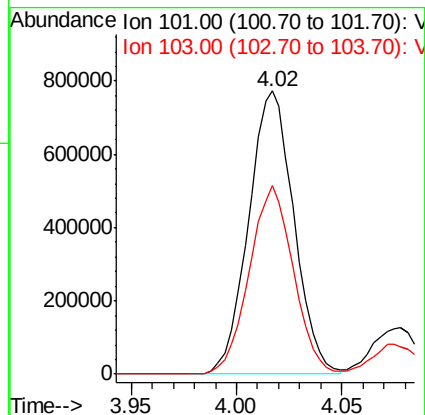
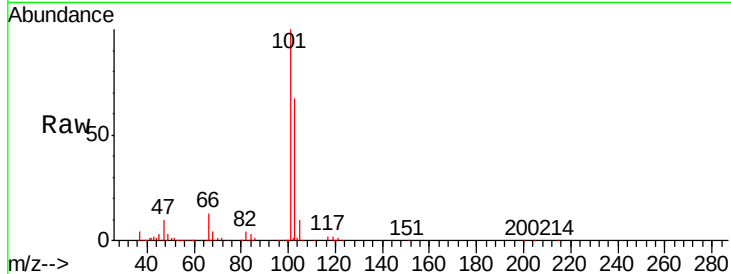
#11
Trichlorofluoromethane
Concen: 6.55 ppbv
RT: 4.02 min Scan# 336
Delta R.T. 0.01 min
Lab File: VL032818.D
Acq: 27 Nov 2018 22:09

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-03

Tgt Ion: 101 Resp: 1149987
Ion Ratio Lower Upper
101 100
103 66.6 51.6 77.4

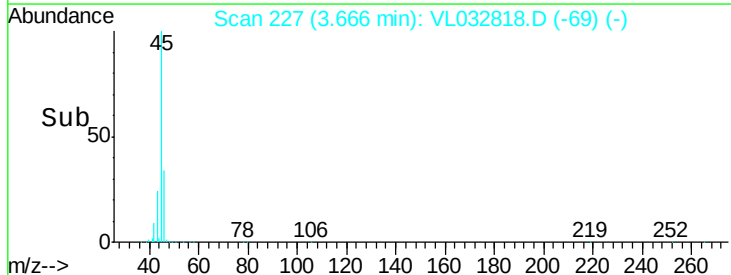
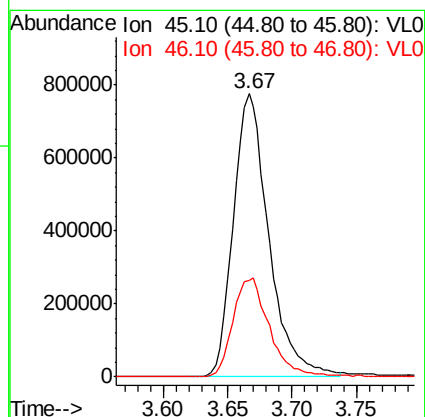
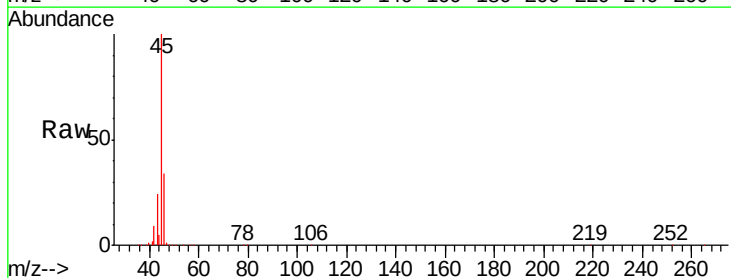
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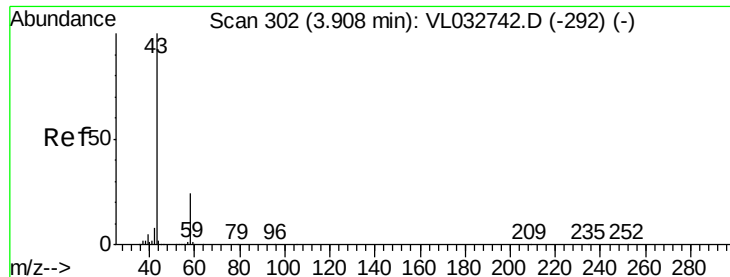
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#13
Ethanol
Concen: 110.28 ppbv
RT: 3.67 min Scan# 227
Delta R.T. 0.01 min
Lab File: VL032818.D
Acq: 27 Nov 2018 22:09

Tgt Ion: 45 Resp: 1484306
Ion Ratio Lower Upper
45 100
46 36.4 14.5 57.9





#15

Acetone

Concen: 29.73 ppbv

RT: 3.91 min Scan# 302

Delta R.T. -0.00 min

Lab File: VL032818.D

Acq: 27 Nov 2018 22:09

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-03

Tgt Ion: 43 Resp: 3516505

Ion Ratio Lower Upper

43 100

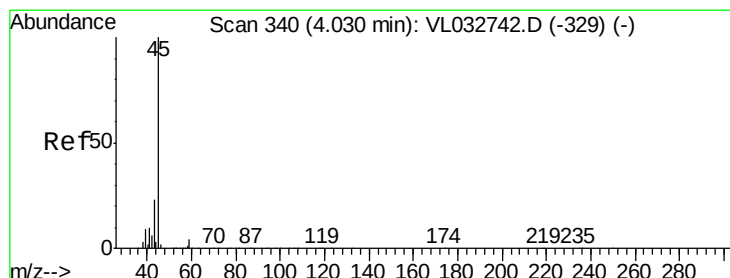
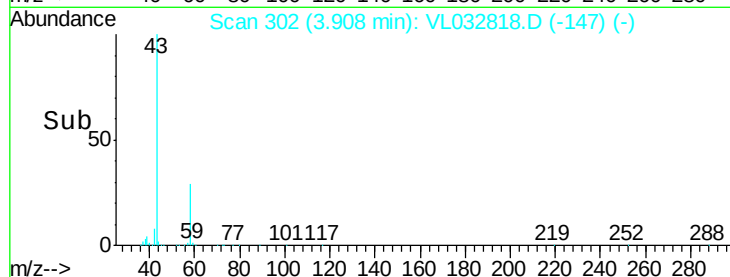
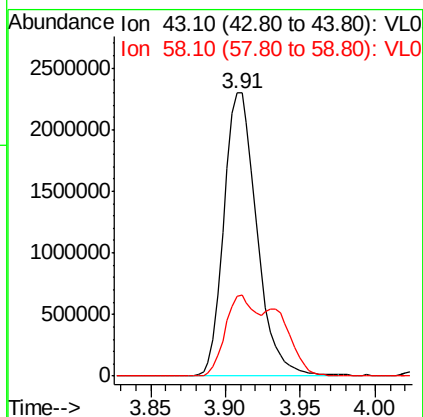
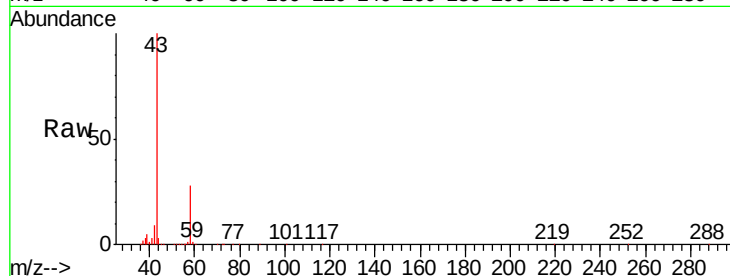
58 46.8 21.1 31.7#

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#19

Isopropyl Alcohol

Concen: 14.29 ppbv m

RT: 4.04 min Scan# 344

Delta R.T. 0.01 min

Lab File: VL032818.D

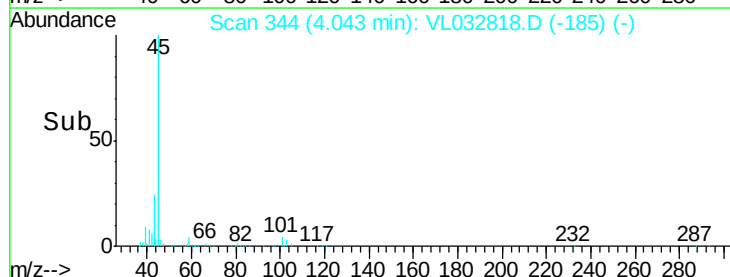
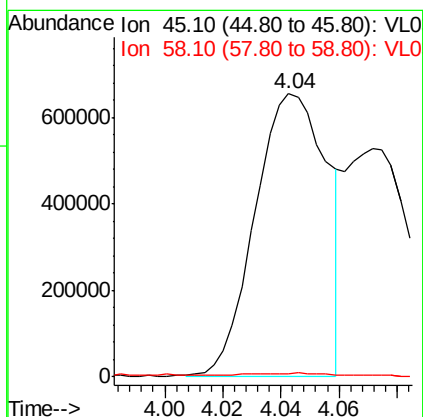
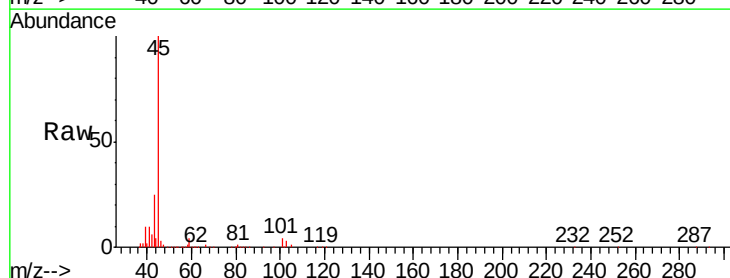
Acq: 27 Nov 2018 22:09

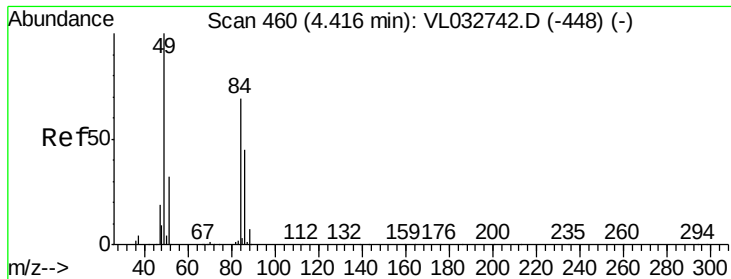
Tgt Ion: 45 Resp: 1126073

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#





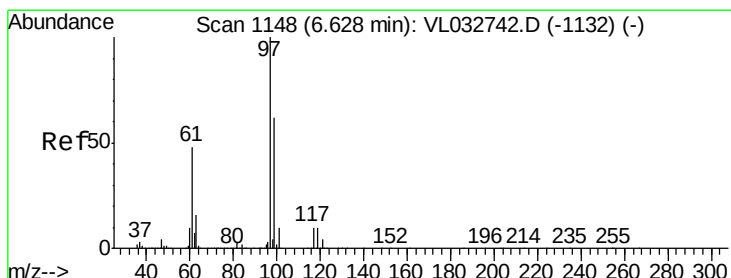
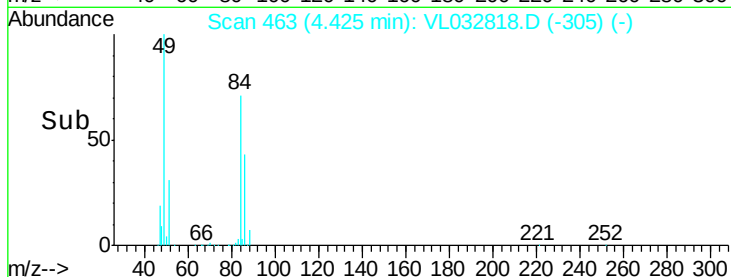
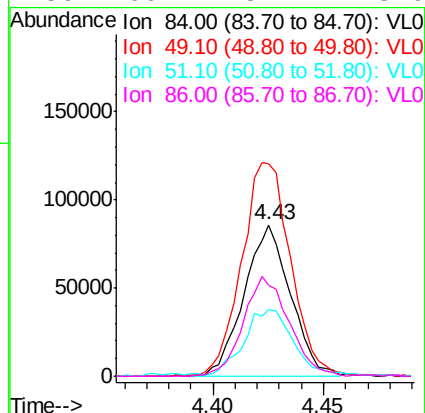
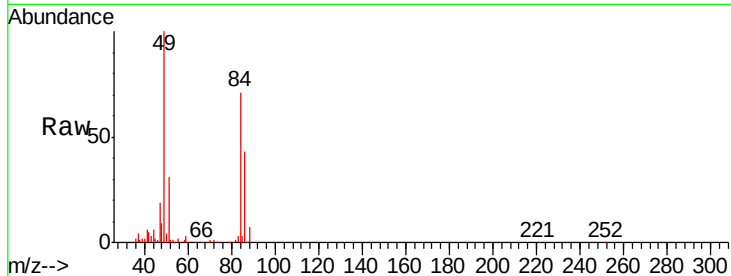
#20
Methylene Chloride
Concen: 2.04 ppbv
RT: 4.43 min Scan# 463
Delta R.T. 0.01 min
Lab File: VL032818.D
Acq: 27 Nov 2018 22:09

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-03

Tgt Ion:	84	Resp:	124922
Ion	Ratio	Lower	Upper
84	100		
49	138.9	115.8	173.6
51	42.0	36.9	55.3
86	60.4	52.4	78.6

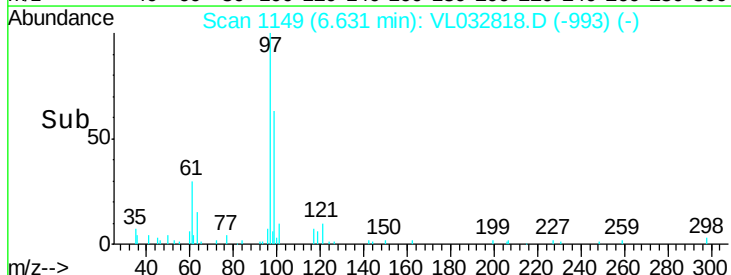
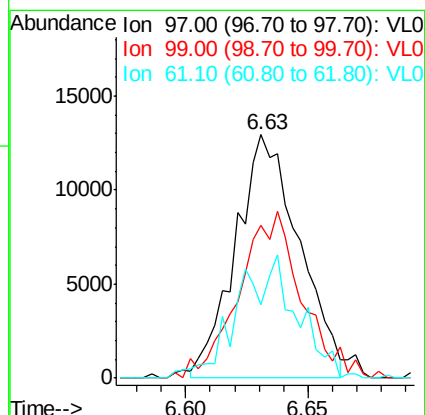
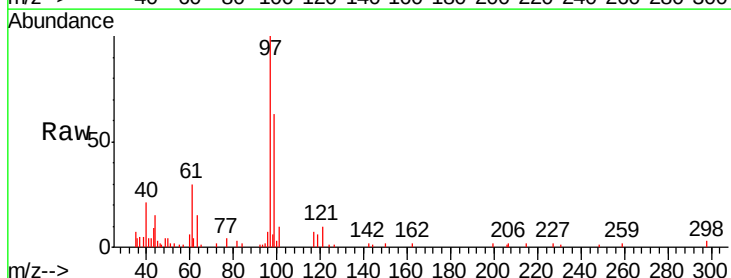
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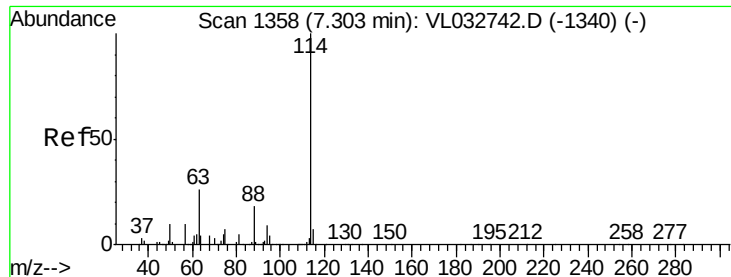
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#32
1,1,1-Trichloroethane
Concen: 0.10 ppbv
RT: 6.63 min Scan# 1149
Delta R.T. 0.00 min
Lab File: VL032818.D
Acq: 27 Nov 2018 22:09

Tgt Ion:	97	Resp:	23381
Ion	Ratio	Lower	Upper
97	100		
99	67.7	51.8	77.6
61	47.7	39.7	59.5





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.31 min Scan# 1360

Delta R.T. 0.01 min

Lab File: VL032818.D

Acq: 27 Nov 2018 22:09

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-03

Tgt Ion: 114 Resp: 3319553

Ion Ratio Lower Upper

114 100

63 25.1 20.9 31.3

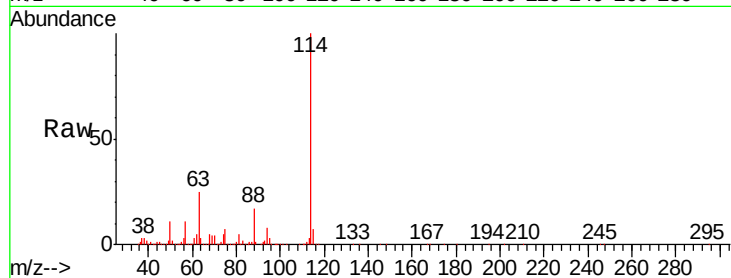
88 17.5 14.4 21.6

Manual Integrations

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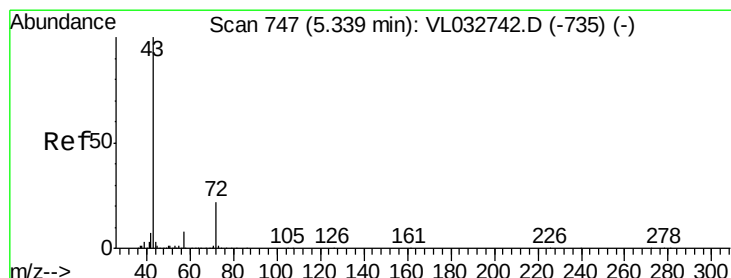
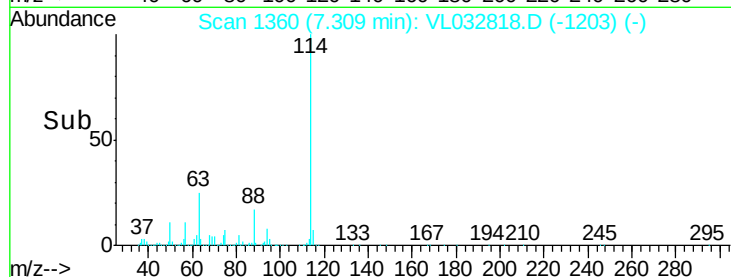
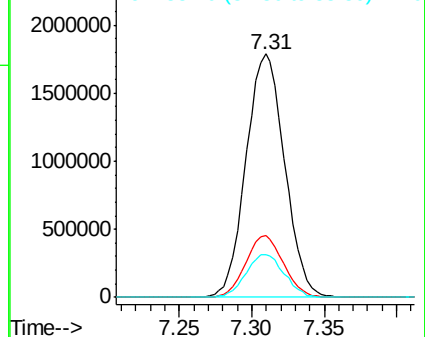
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 73.22 ppbv

RT: 5.34 min Scan# 746

Delta R.T. -0.00 min

Lab File: VL032818.D

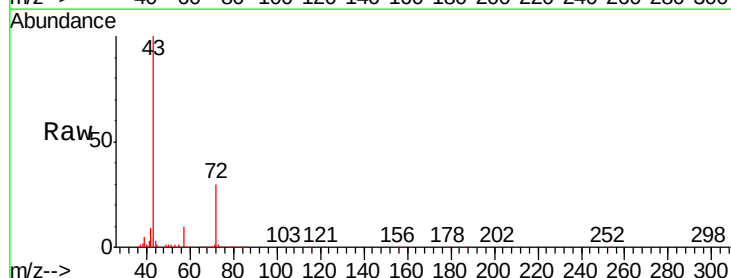
Acq: 27 Nov 2018 22:09

Tgt Ion: 43 Resp: 12605909

Ion Ratio Lower Upper

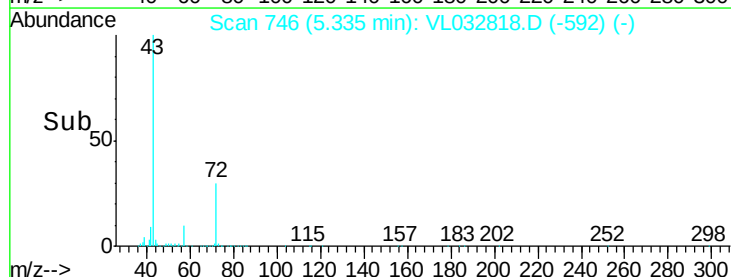
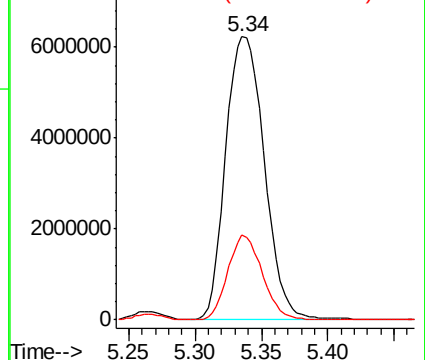
43 100

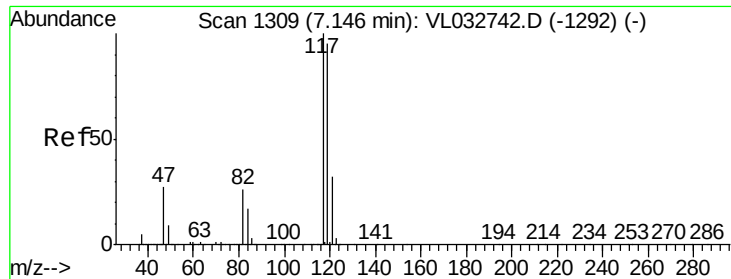
72 26.8 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.06 ppbv m

RT: 7.15 min Scan# 1309

Delta R.T. -0.00 min

Lab File: VL032818.D

Acq: 27 Nov 2018 22:09

Instrument :

MSVOA_L

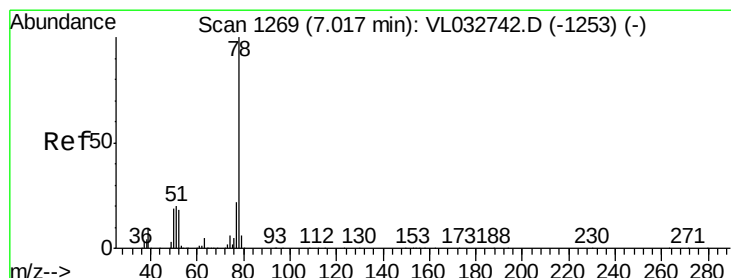
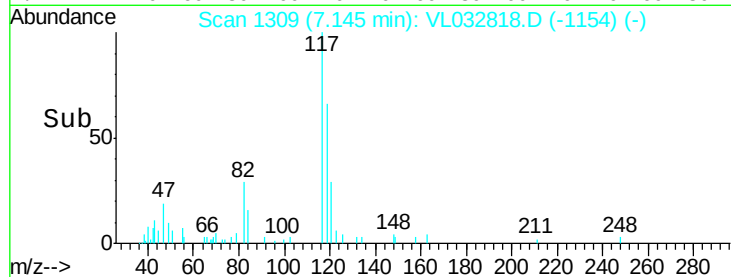
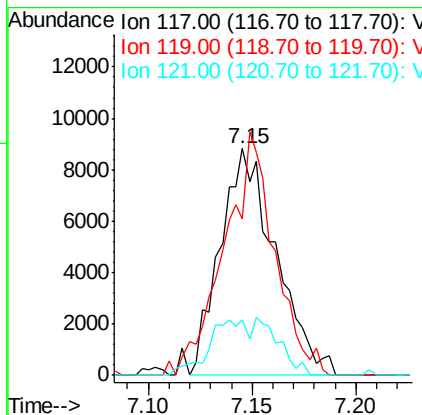
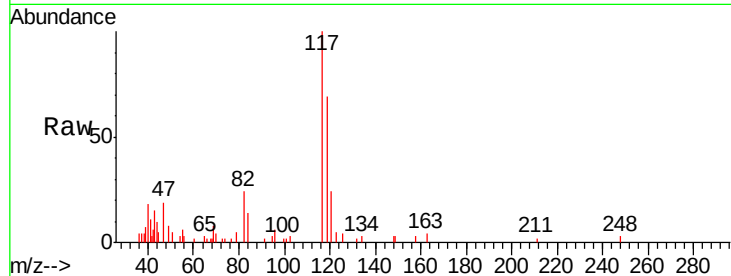
ClientSampleId :

EP2-SV-03

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	16331		
119	69.3	76.1	114.1#	
121	24.4	25.4	38.0#	

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#36

Benzene

Concen: 0.34 ppbv

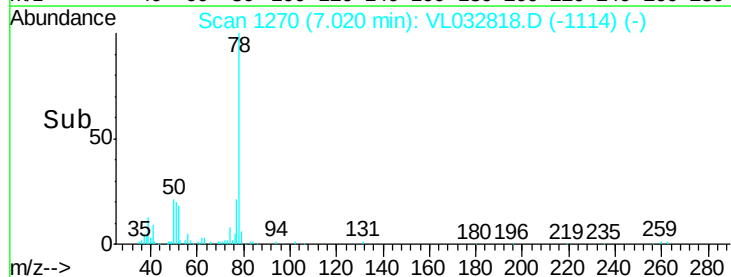
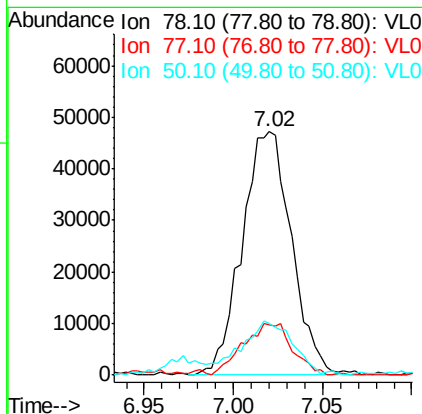
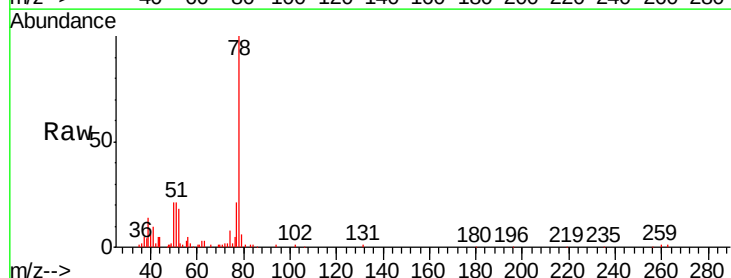
RT: 7.02 min Scan# 1270

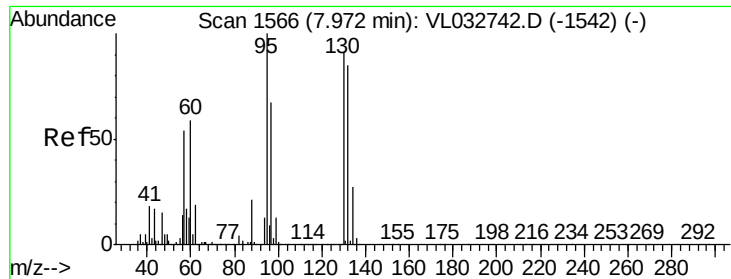
Delta R.T. 0.00 min

Lab File: VL032818.D

Acq: 27 Nov 2018 22:09

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	91195		
77	19.8	17.8	26.8	
50	20.6	15.4	23.0	





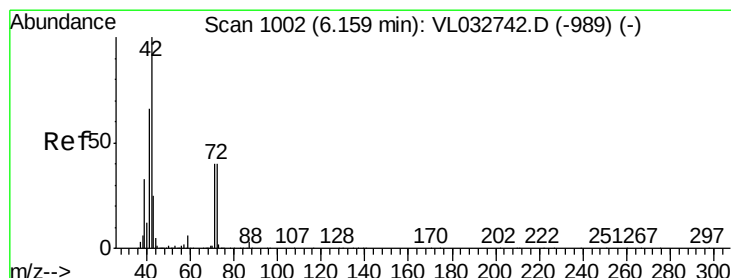
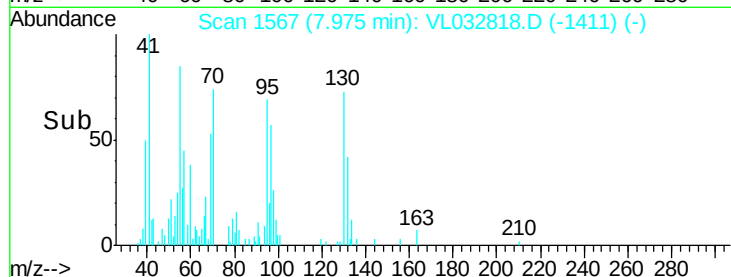
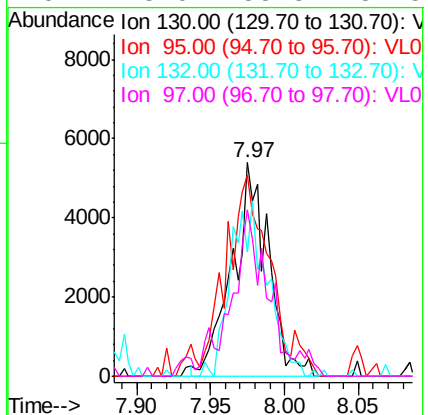
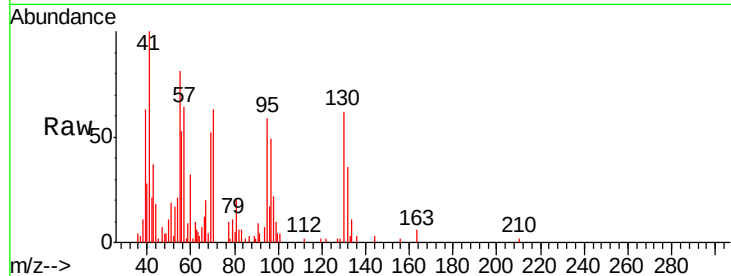
#38
 Trichloroethene
 Concen: 0.08 ppbv m
 RT: 7.97 min Scan# 1567
 Delta R.T. 0.00 min
 Lab File: VL032818.D
 Acq: 27 Nov 2018 22:09

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-03

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	8988		
95	94.4	87.7	131.5	
132	58.3	74.6	111.8#	
97	78.0	58.3	87.5	

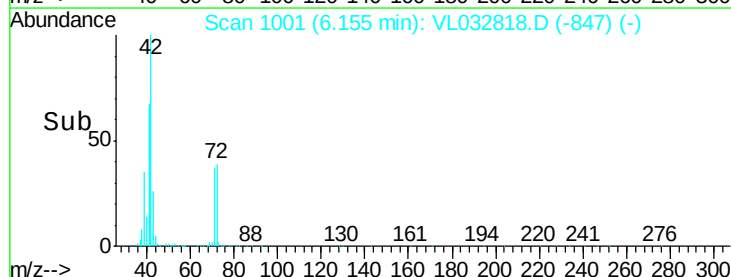
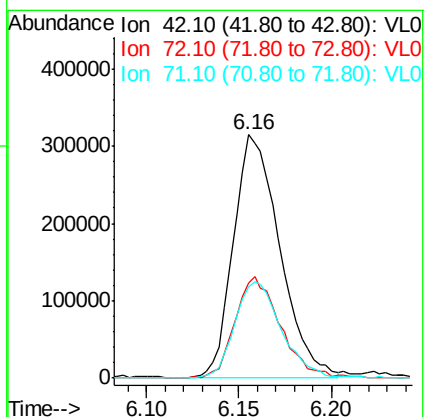
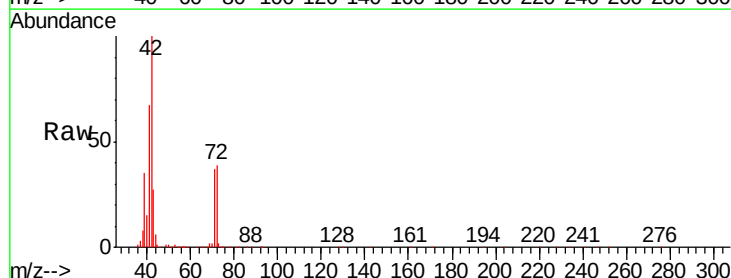
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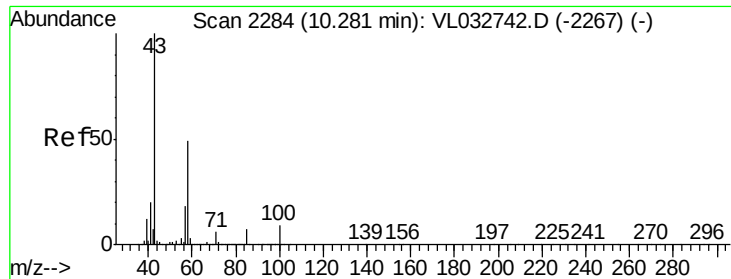
MMDadoda
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#41
 Tetrahydrofuran
 Concen: 5.54 ppbv
 RT: 6.16 min Scan# 1001
 Delta R.T. -0.00 min
 Lab File: VL032818.D
 Acq: 27 Nov 2018 22:09

Tgt Ion	Ratio	Resp	Lower	Upper
42	100	546711		
72	41.2	32.4	48.6	
71	40.1	31.6	47.4	





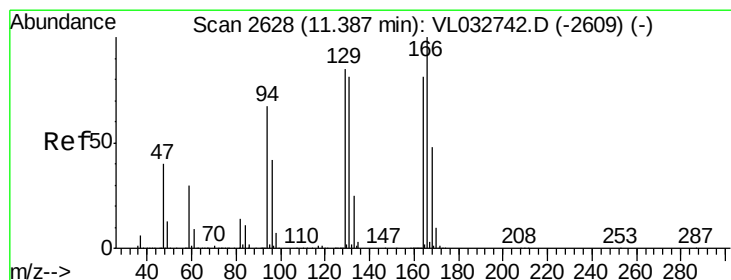
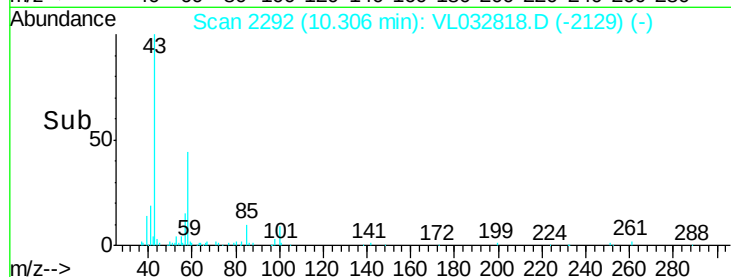
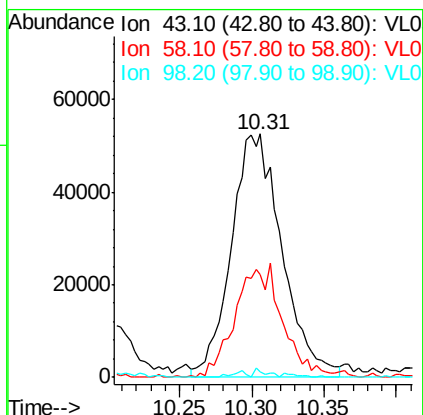
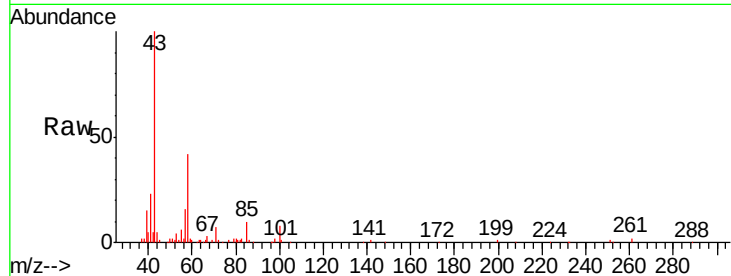
#51
2-Hexanone
Concen: 0.74 ppbv m
RT: 10.31 min Scan# 2292
Delta R.T. 0.03 min
Lab File: VL032818.D
Acq: 27 Nov 2018 22:09

Instrument :
MSVOA_L
ClientSampled :
EP2-SV-03

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.9	58.3#
98	0.0	0.2	0.4#

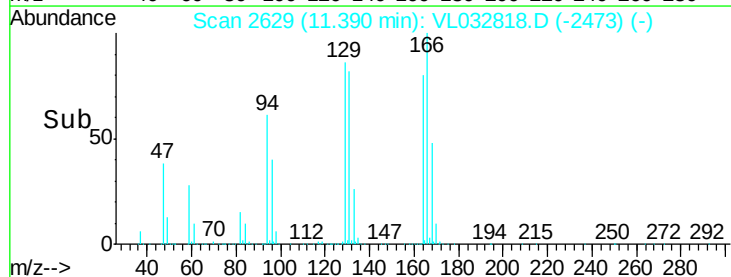
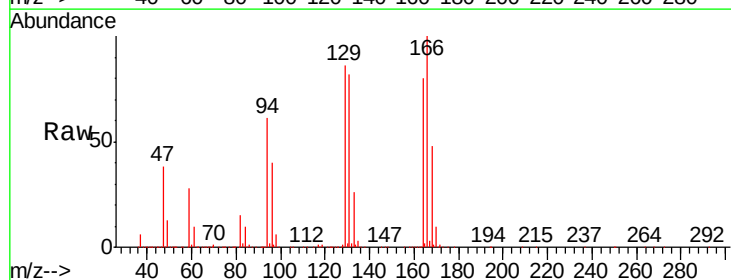
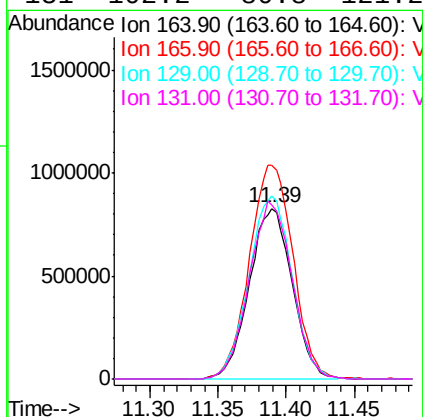
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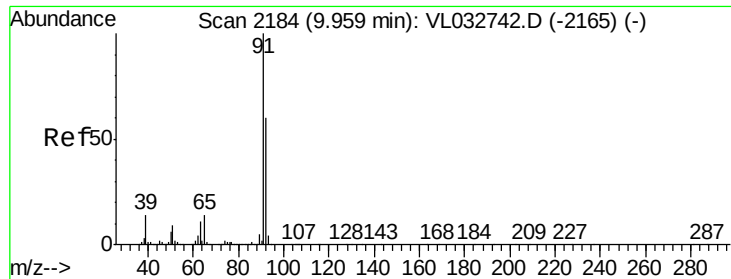
MMDadoda
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#52
Tetrachloroethene
Concen: 19.59 ppbv
RT: 11.39 min Scan# 2629
Delta R.T. 0.00 min
Lab File: VL032818.D
Acq: 27 Nov 2018 22:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.9	99.3	148.9
129	107.0	83.9	125.9
131	102.2	80.8	121.2





#53

Toluene

Concen: 4.26 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL032818.D

Acq: 27 Nov 2018 22:09

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-03

Tgt Ion: 91 Resp: 1176089

Ion Ratio Lower Upper

91 100

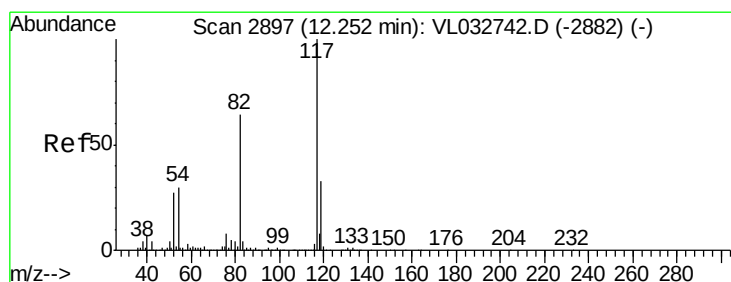
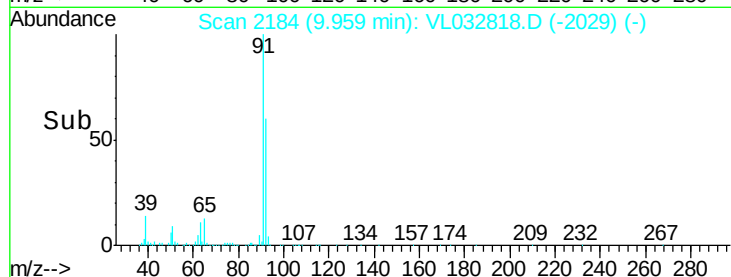
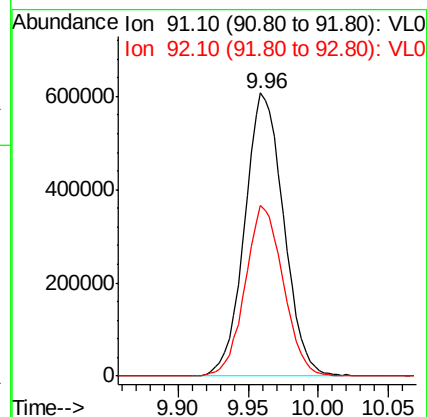
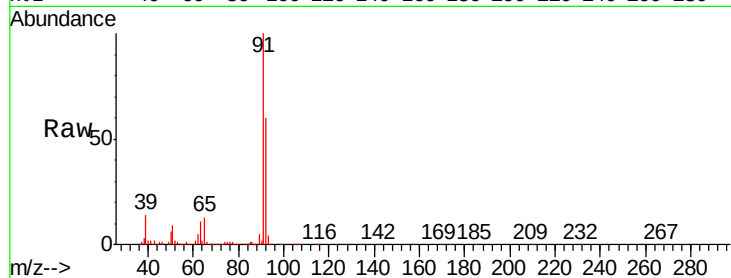
92 59.3 47.9 71.9

Manual Integrations

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.25 min Scan# 2898

Delta R.T. 0.00 min

Lab File: VL032818.D

Acq: 27 Nov 2018 22:09

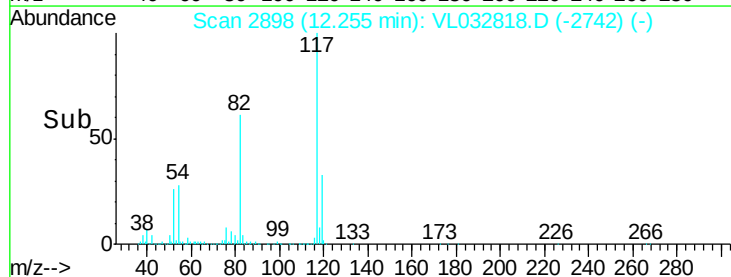
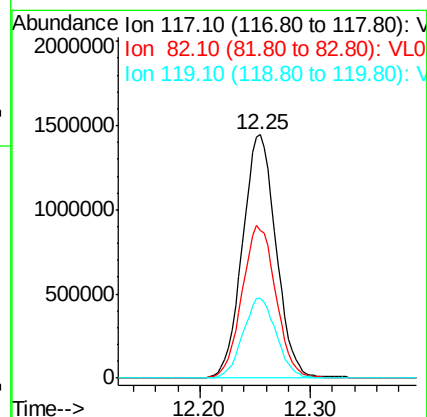
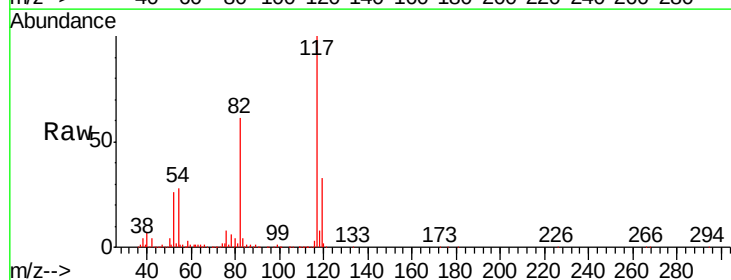
Tgt Ion: 117 Resp: 3048708

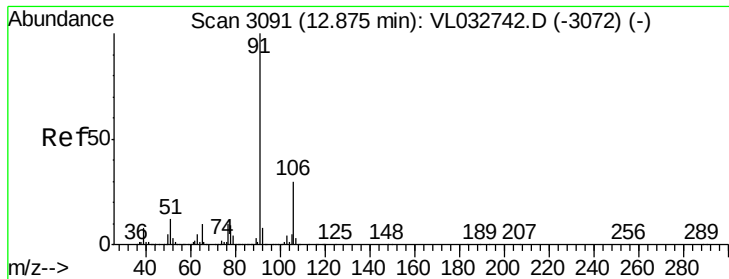
Ion Ratio Lower Upper

117 100

82 63.4 51.0 76.6

119 32.7 28.0 42.0





#58

Ethyl Benzene

Concen: 0.13 ppbv m

RT: 12.88 min Scan# 3091

Delta R.T. -0.00 min

Lab File: VL032818.D

Acq: 27 Nov 2018 22:09

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-03

Tgt Ion: 91 Resp: 46446

Ion Ratio Lower Upper

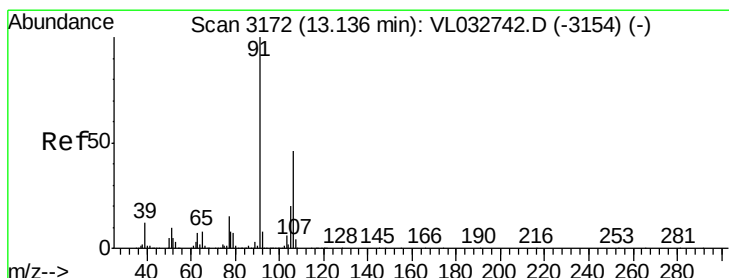
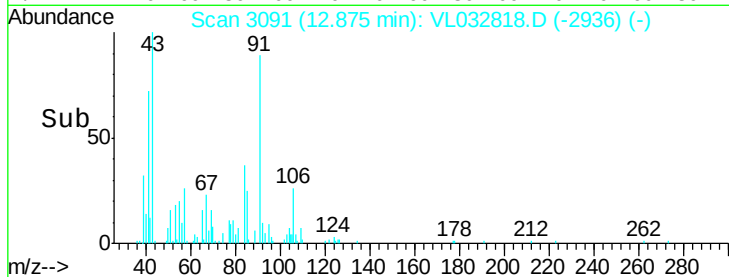
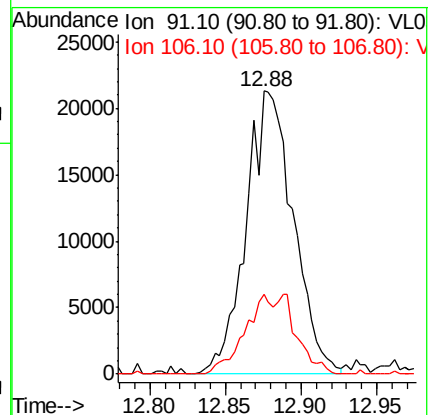
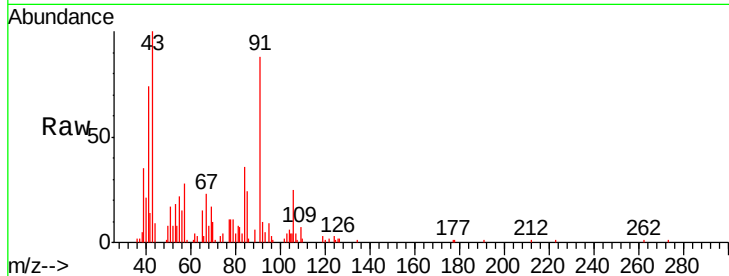
91 100

106 28.3 23.6 35.4

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#59

m/p-Xylene

Concen: 0.32 ppbv m

RT: 13.14 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VL032818.D

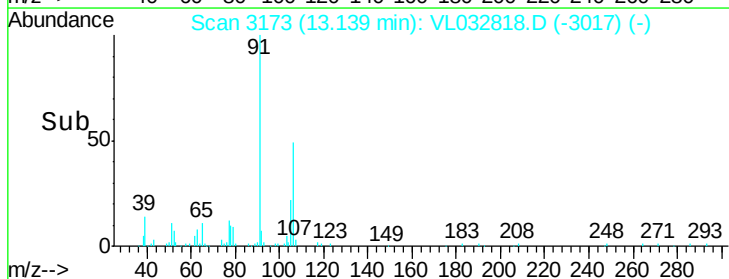
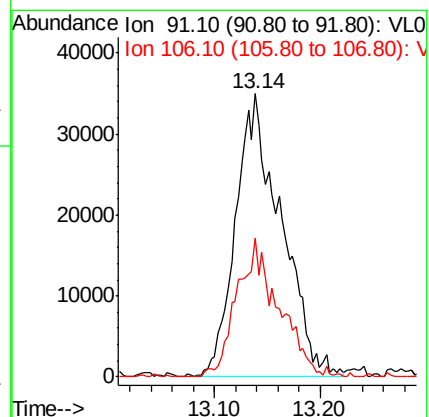
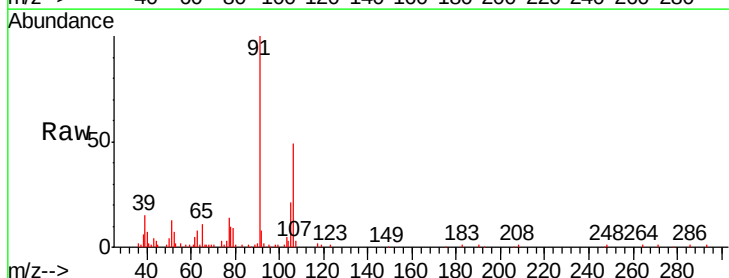
Acq: 27 Nov 2018 22:09

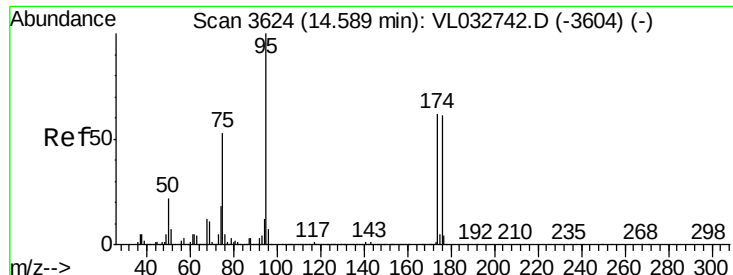
Tgt Ion: 91 Resp: 104541

Ion Ratio Lower Upper

91 100

106 45.2 36.1 54.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.09 ppbv

RT: 14.59 min Scan# 3625

Delta R.T. 0.00 min

Lab File: VL032818.D

Acq: 27 Nov 2018 22:09

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-03

Tgt Ion: 95 Resp: 2300825

Ion Ratio Lower Upper

95 100

174 65.6 50.7 76.1

175 4.8 3.8 5.6

Manual Integrations

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