

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL112718\
 Data File : VL032822.D
 Acq On : 28 Nov 2018 00:46
 Operator : SY/AP
 Sample : J6046-04
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-04

Manual Integrations
 APPROVED

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 11/28/2018 4:21:37 PM

Quant Time: Nov 28 16:02:49 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	5.77	49	1331458	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3383028	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3129404	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2343279	10.01	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	190040	0.99	ppbv	99
3) Chlorodifluoromethane	3.01	51	19267322m	182.53	ppbv	
4) Chloromethane	3.17	50	244940	4.18	ppbv	99
9) Propene	3.04	41	796013	18.84	ppbv	98
11) Trichlorofluoromethane	4.01	101	3873306	21.47	ppbv	98
13) Ethanol	3.66	45	1534500	110.90	ppbv	100
15) Acetone	3.90	43	3243561	26.68	ppbv #	61
19) Isopropyl Alcohol	4.04	45	1734653m	21.42	ppbv	
20) Methylene Chloride	4.42	84	233206	3.70	ppbv	98
26) Hexane	5.79	57	189870	1.51	ppbv #	3
27) Carbon Disulfide	4.62	76	27251	0.17	ppbv #	65
29) Chloroform	5.86	83	62775	0.28	ppbv	99
34) 2-Butanone	5.33	43	10381043	59.16	ppbv	95
35) Carbon Tetrachloride	7.15	117	16294m	0.06	ppbv	
36) Benzene	7.02	78	98454	0.37	ppbv	96
41) Tetrahydrofuran	6.16	42	562607	5.59	ppbv	99
51) 2-Hexanone	10.29	43	61050	0.35	ppbv #	92
52) Tetrachloroethene	11.39	164	1665761	17.78	ppbv	97
53) Toluene	9.96	91	1446640	5.15	ppbv	100
58) Ethyl Benzene	12.88	91	43512	0.12	ppbv	92
59) m/p-Xylene	13.13	91	105547m	0.31	ppbv	
60) o-Xylene	13.85	91	33365m	0.10	ppbv	

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

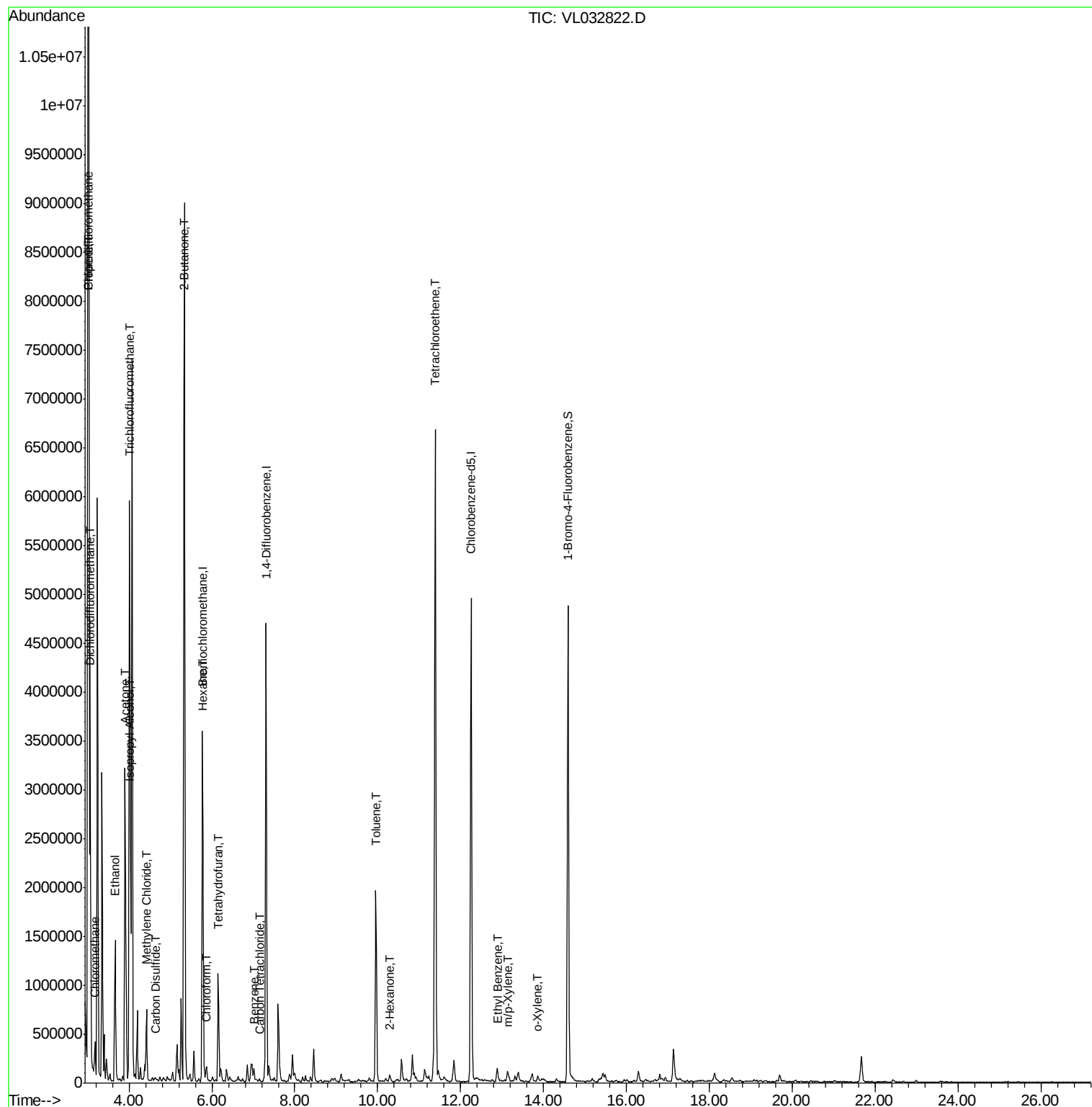
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL112718\
Data File : VL032822.D
Acq On : 28 Nov 2018 00:46
Operator : SY/AP
Sample : J6046-04
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

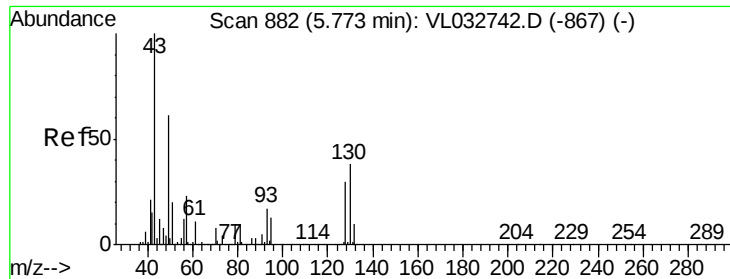
Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-04

Manual Integrations
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11/28/2018 4:21:37 PM

Quant Time: Nov 28 16:02:49 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: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL032822.D

Acq: 28 Nov 2018 00:46

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-04

Tgt Ion: 49 Resp: 1331458

Ion Ratio Lower Upper

49 100

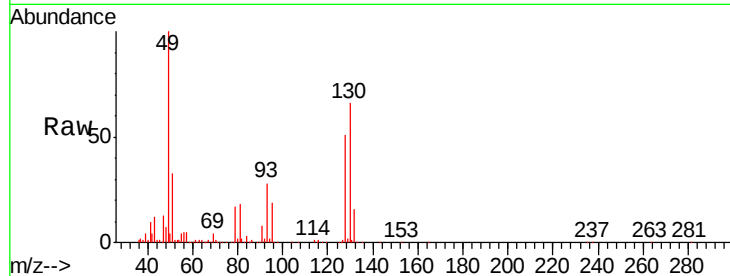
128 51.7 24.9 74.6

130 66.4 31.4 94.2

Manual Integrations
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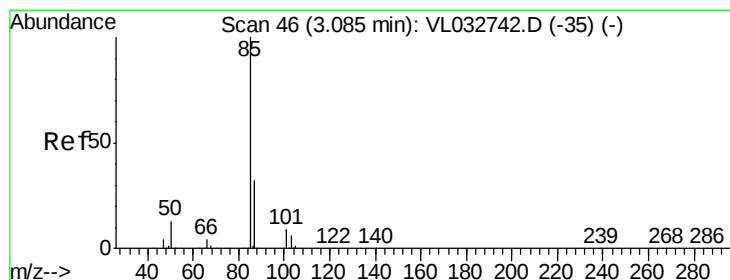
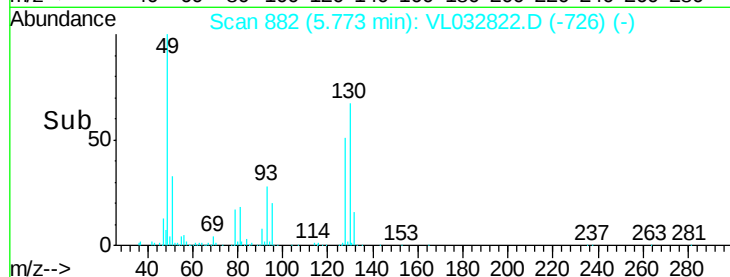
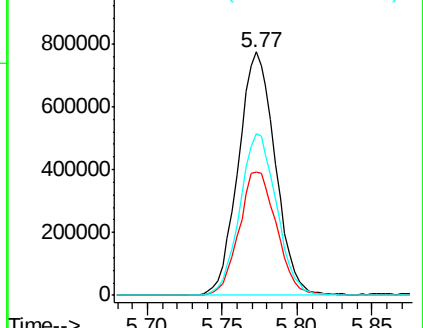
11/28/2018 4:21:37 PM



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: 0.99 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.01 min

Lab File: VL032822.D

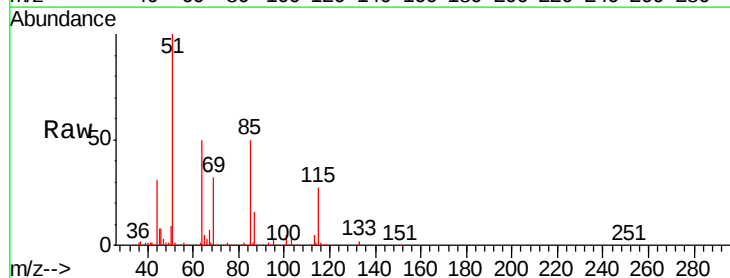
Acq: 28 Nov 2018 00:46

Tgt Ion: 85 Resp: 190040

Ion Ratio Lower Upper

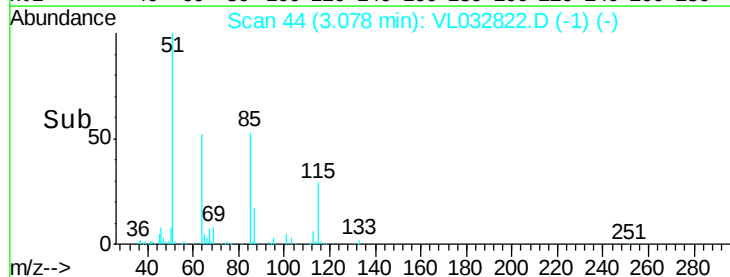
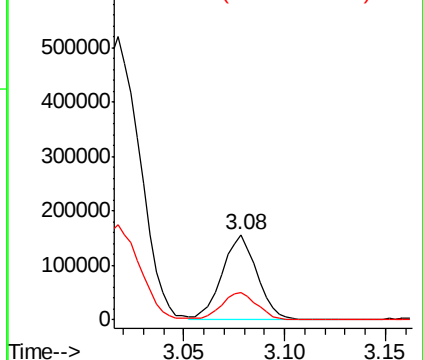
85 100

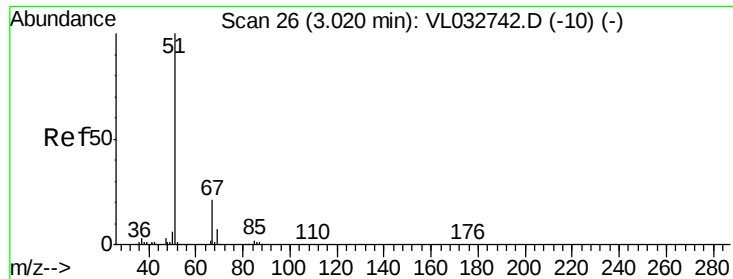
87 32.0 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

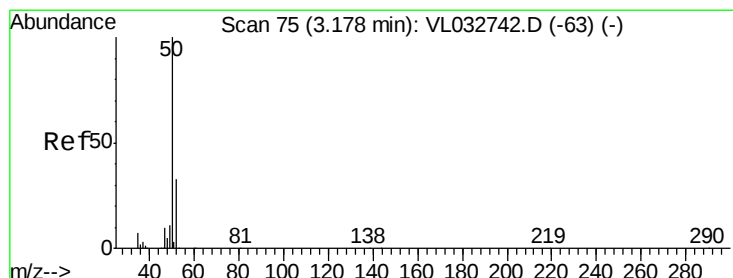
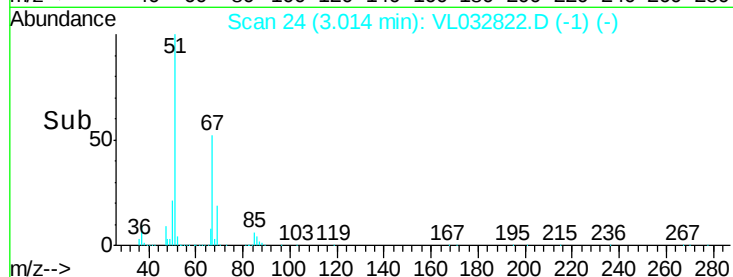
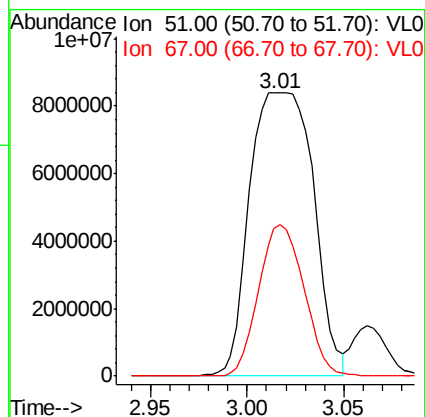
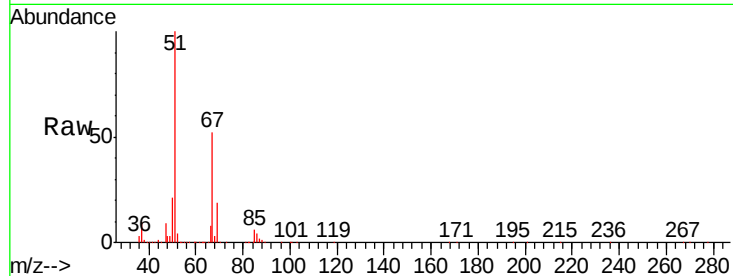
Chlorodifluoromethane
 Concen: 182.53 ppbv m
 RT: 3.01 min Scan# 24
 Delta R.T. -0.01 min
 Lab File: VL032822.D
 Acq: 28 Nov 2018 00:46

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-04

Tgt Ion: 51 Resp:19267322
 Ion Ratio Lower Upper
 51 100
 67 38.2 16.1 24.1#

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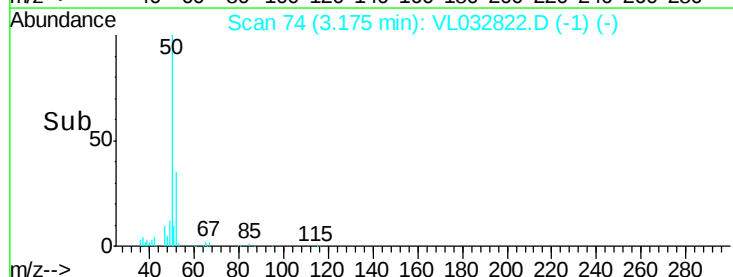
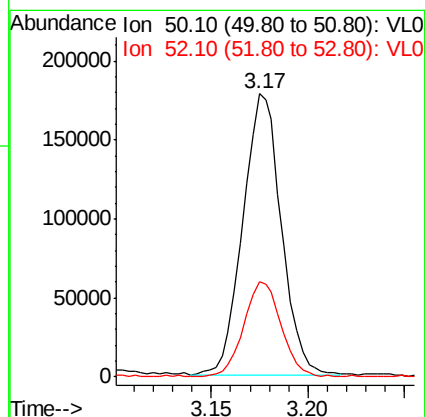
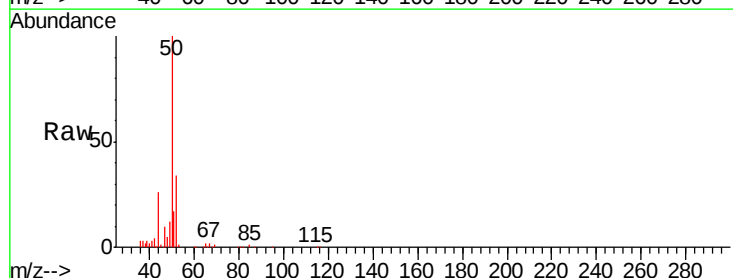
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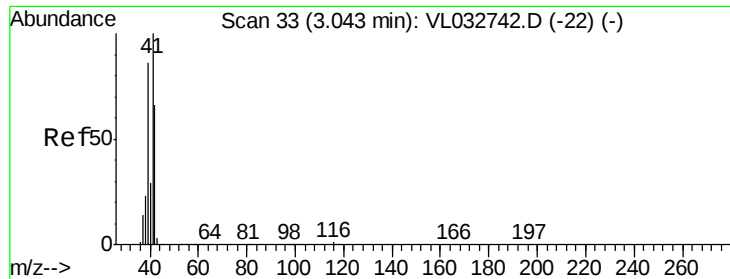


#4

Chloromethane
 Concen: 4.18 ppbv
 RT: 3.17 min Scan# 74
 Delta R.T. -0.00 min
 Lab File: VL032822.D
 Acq: 28 Nov 2018 00:46

Tgt Ion: 50 Resp: 244940
 Ion Ratio Lower Upper
 50 100
 52 33.9 26.6 40.0





#9

Propene

Concen: 18.84 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.01 min

Lab File: VL032822.D

Acq: 28 Nov 2018 00:46

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-04

Tgt Ion: 41 Resp: 796013

Ion Ratio Lower Upper

41 100

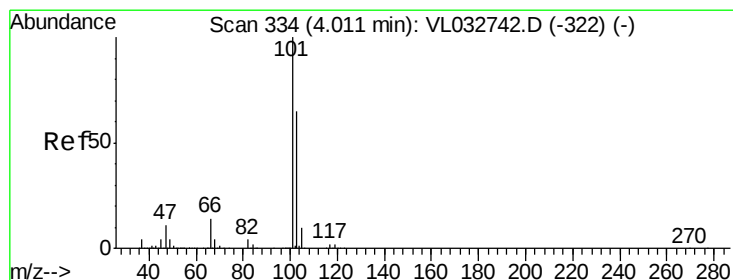
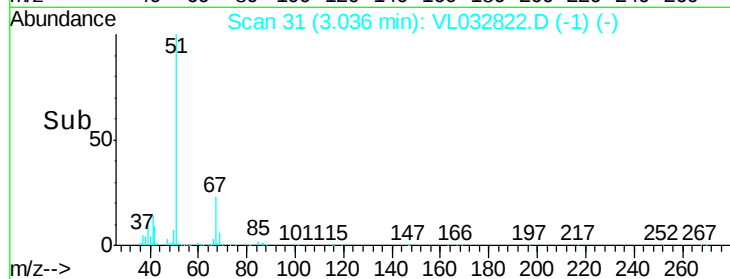
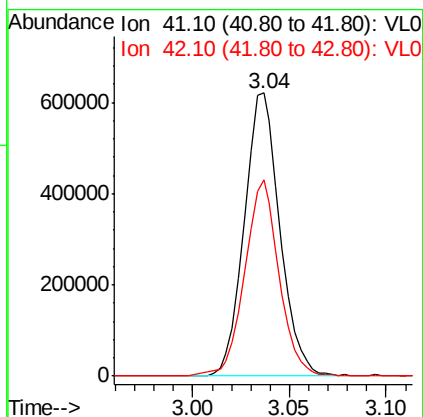
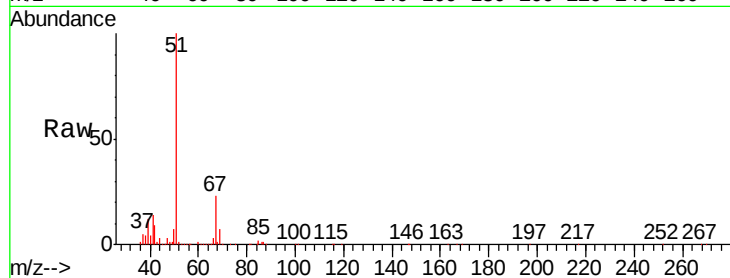
42 67.2 55.0 82.6

Manual Integrations

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#11

Trichlorofluoromethane

Concen: 21.47 ppbv

RT: 4.01 min Scan# 334

Delta R.T. -0.00 min

Lab File: VL032822.D

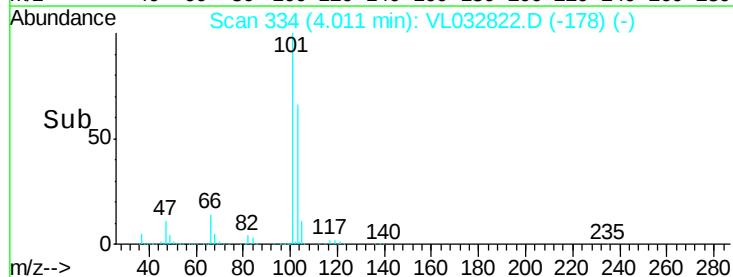
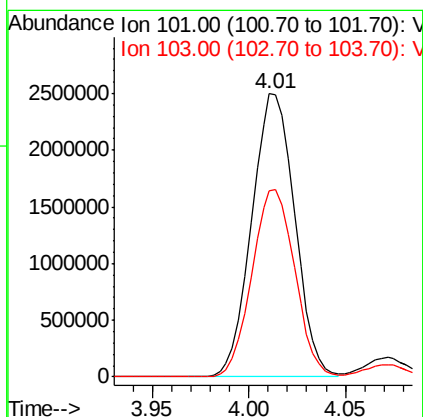
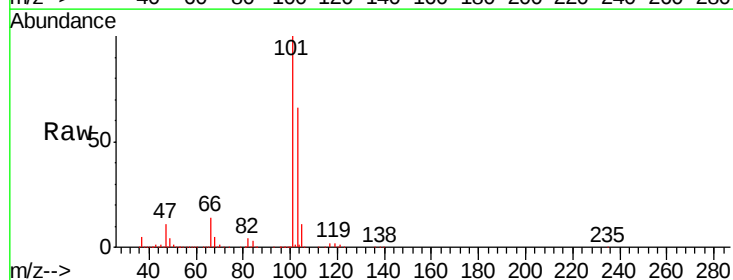
Acq: 28 Nov 2018 00:46

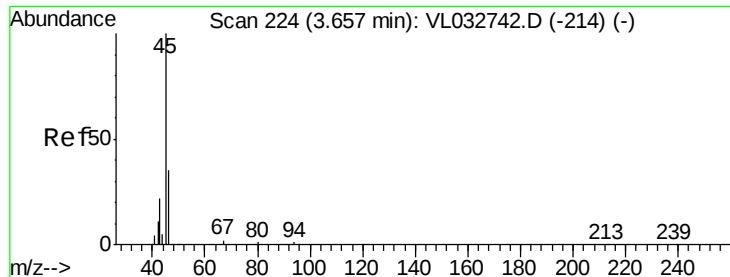
Tgt Ion: 101 Resp: 3873306

Ion Ratio Lower Upper

101 100

103 65.8 51.6 77.4





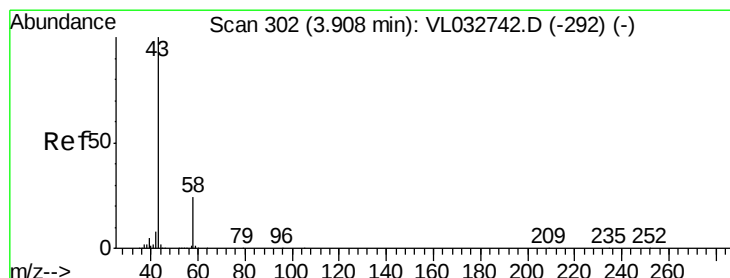
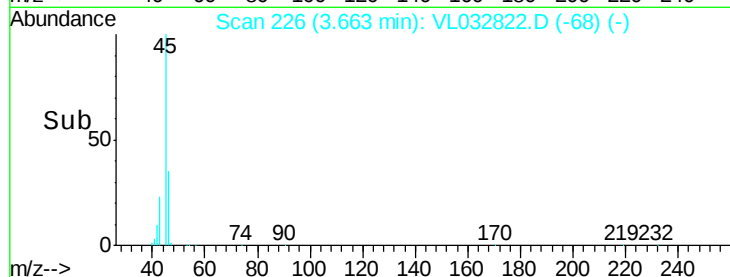
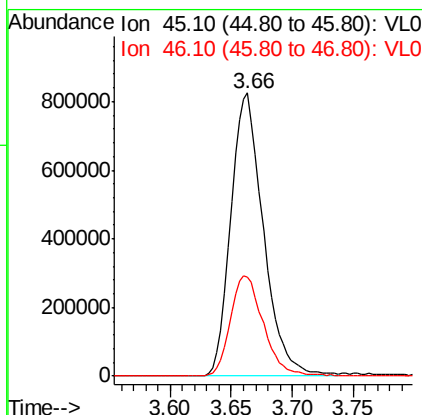
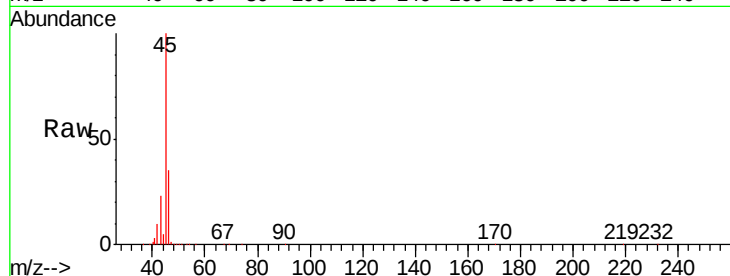
#13
Ethanol
Concen: 110.90 ppbv
RT: 3.66 min Scan# 226
Delta R.T. 0.01 min
Lab File: VL032822.D
Acq: 28 Nov 2018 00:46

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-04

Tgt Ion: 45 Resp: 1534500
Ion Ratio Lower Upper
45 100
46 36.2 14.5 57.9

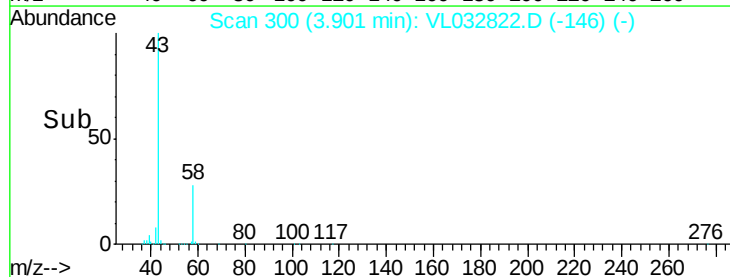
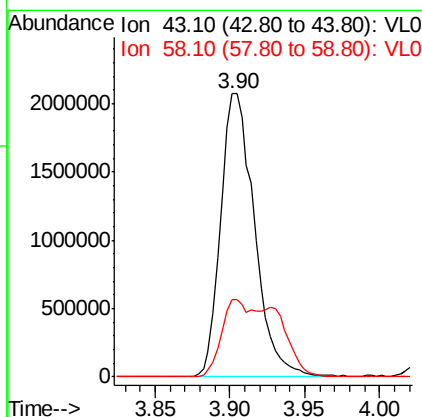
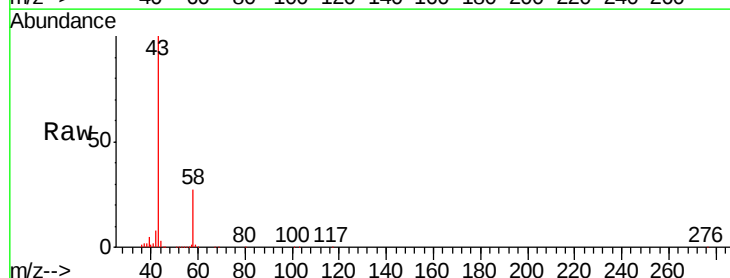
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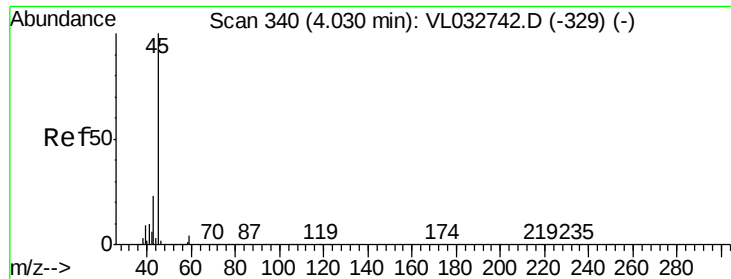
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#15
Acetone
Concen: 26.68 ppbv
RT: 3.90 min Scan# 300
Delta R.T. -0.01 min
Lab File: VL032822.D
Acq: 28 Nov 2018 00:46

Tgt Ion: 43 Resp: 3243561
Ion Ratio Lower Upper
43 100
58 46.5 21.1 31.7#





#19

Isopropyl Alcohol

Concen: 21.42 ppbv m

RT: 4.04 min Scan# 343

Delta R.T. 0.01 min

Lab File: VL032822.D

Acq: 28 Nov 2018 00:46

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-04

Tgt Ion: 45 Resp: 1734653

Ion Ratio Lower Upper

45 100

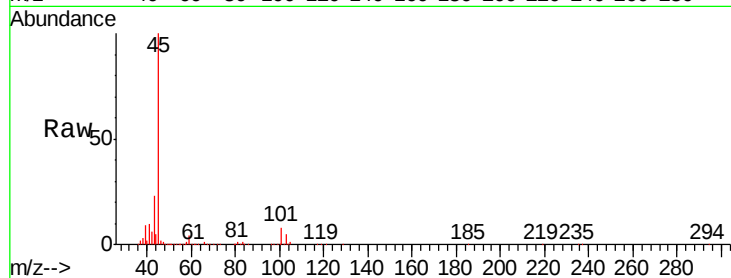
58 0.0 1.4 2.0#

Manual Integrations

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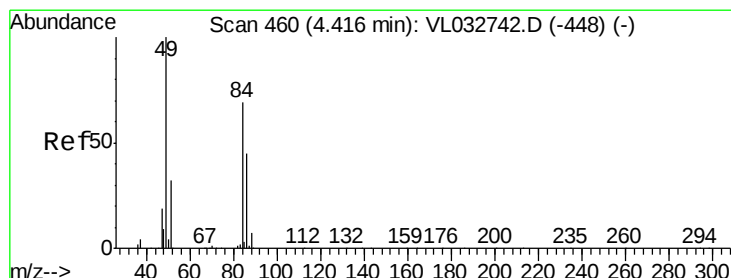
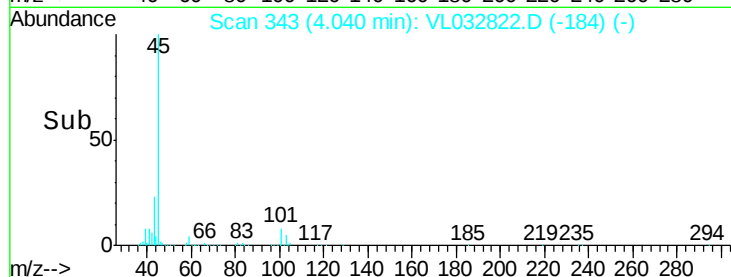
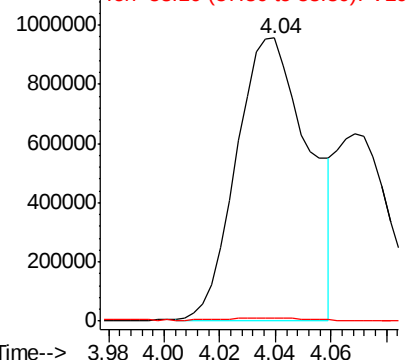
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 3.70 ppbv

RT: 4.42 min Scan# 461

Delta R.T. 0.00 min

Lab File: VL032822.D

Acq: 28 Nov 2018 00:46

Tgt Ion: 84 Resp: 233206

Ion Ratio Lower Upper

84 100

49 146.2 115.8 173.6

51 42.1 36.9 55.3

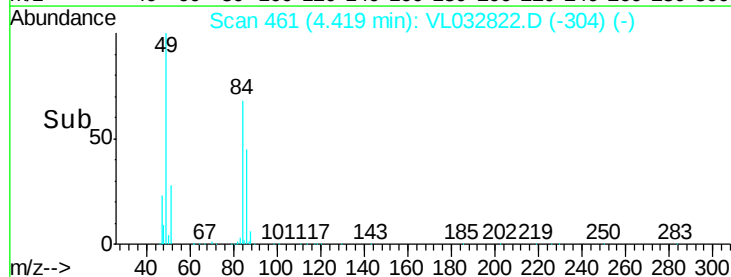
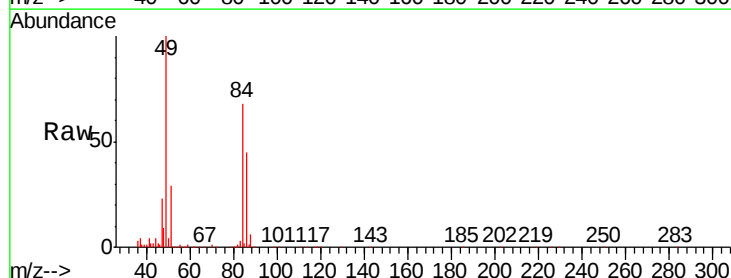
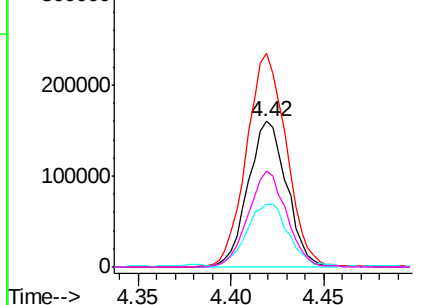
86 65.7 52.4 78.6

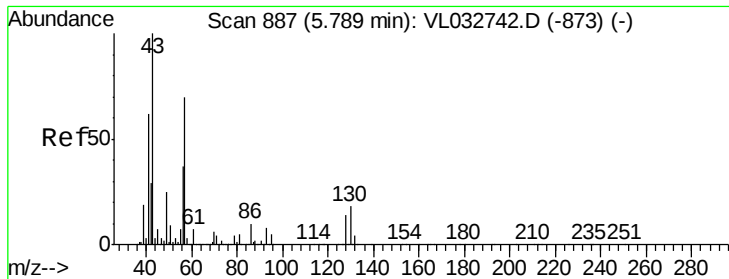
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





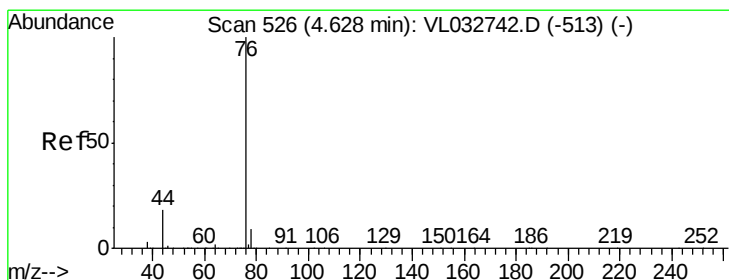
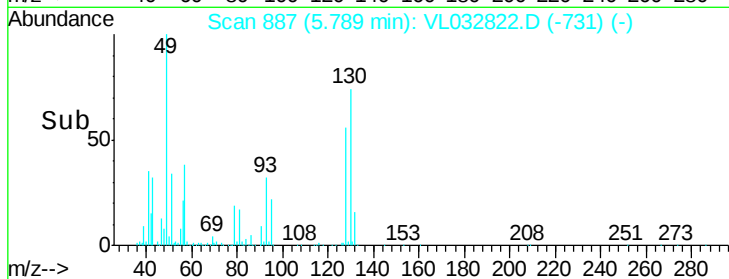
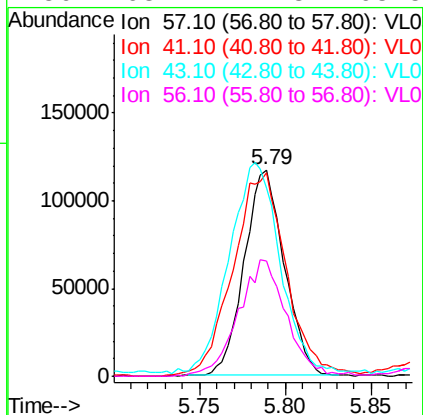
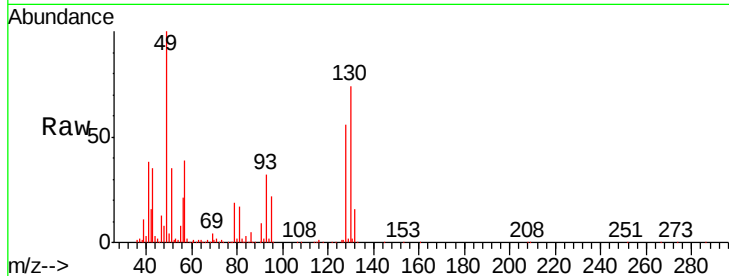
#26
Hexane
Concen: 1.51 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.00 min
Lab File: VL032822.D
Acq: 28 Nov 2018 00:46

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-04

Tgt Ion	Ratio	Lower	Upper
57	100		
41	130.9	70.3	105.5#
43	0.0	174.0	261.0#
56	68.1	42.3	63.5#

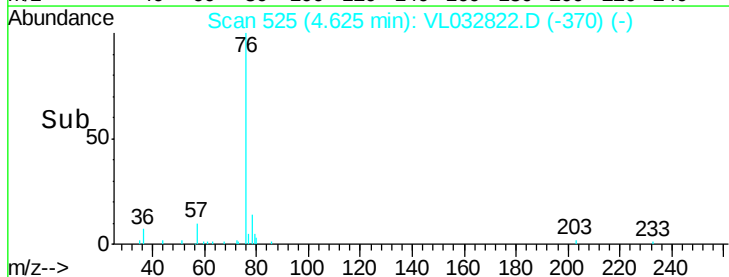
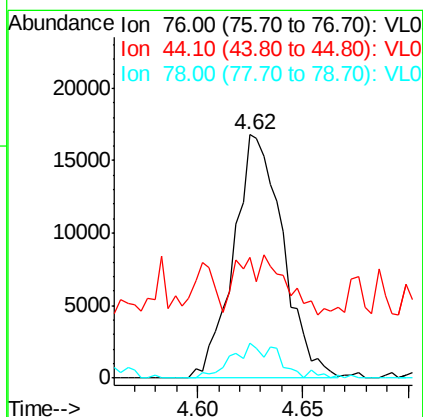
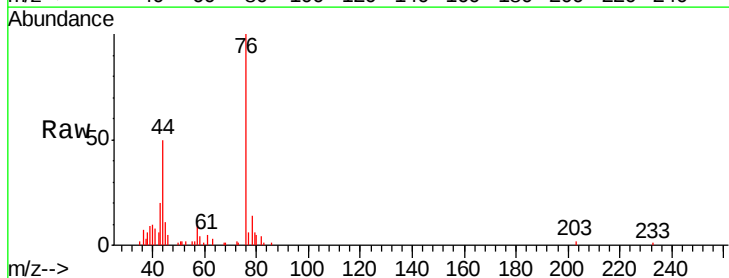
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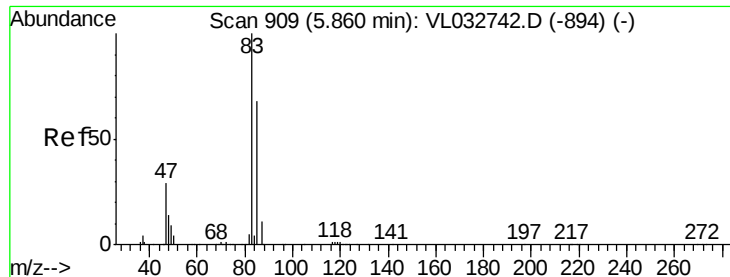
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#27
Carbon Disulfide
Concen: 0.17 ppbv
RT: 4.62 min Scan# 525
Delta R.T. -0.00 min
Lab File: VL032822.D
Acq: 28 Nov 2018 00:46

Tgt Ion	Ratio	Lower	Upper
76	100		
44	38.8	14.4	21.6#
78	14.0	7.7	11.5#





#29

Chloroform

Concen: 0.28 ppbv

RT: 5.86 min Scan# 909

Delta R.T. -0.00 min

Lab File: VL032822.D

Acq: 28 Nov 2018 00:46

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-04

Tgt Ion: 83 Resp: 62775

Ion Ratio Lower Upper

83 100

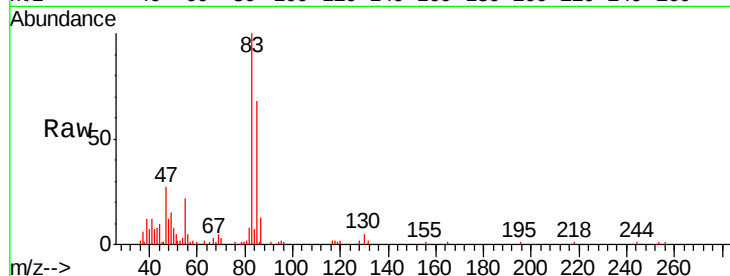
85 66.6 54.2 81.4

Manual Integrations

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MMDadoda

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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

40000

30000

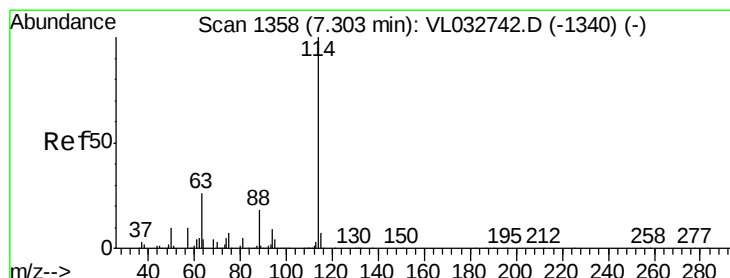
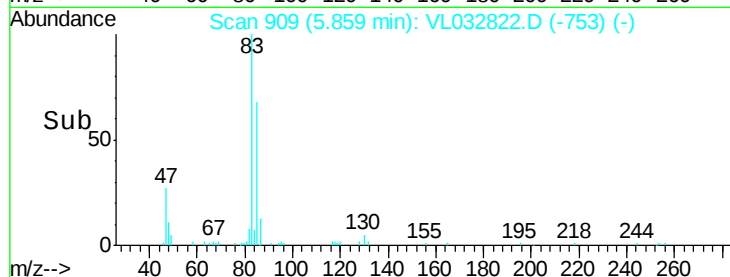
20000

10000

0

5.80 5.85 5.90

Time-->



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.31 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VL032822.D

Acq: 28 Nov 2018 00:46

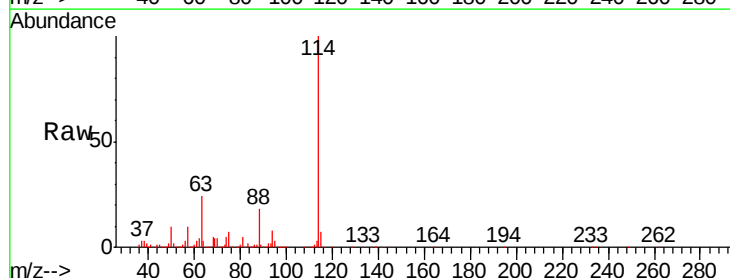
Tgt Ion: 114 Resp: 3383028

Ion Ratio Lower Upper

114 100

63 24.5 20.9 31.3

88 17.4 14.4 21.6



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

2500000

2000000

1500000

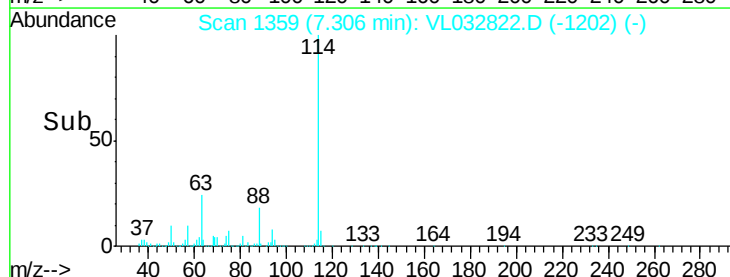
1000000

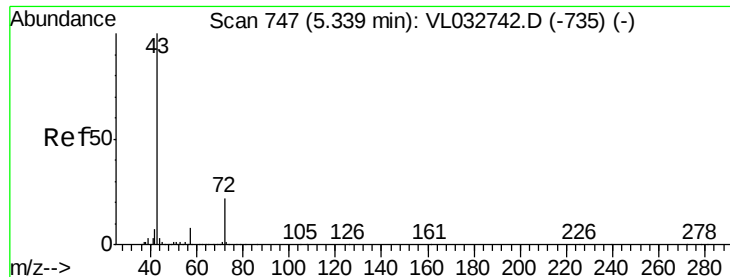
500000

0

7.20 7.25 7.30 7.35 7.40

Time-->





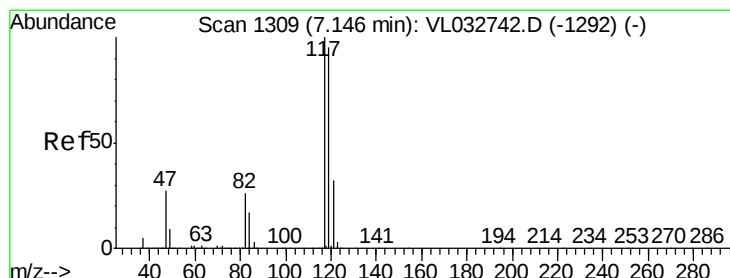
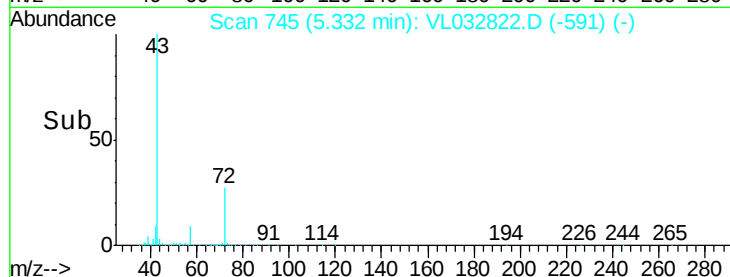
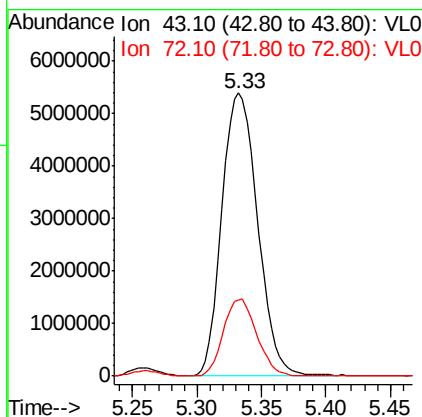
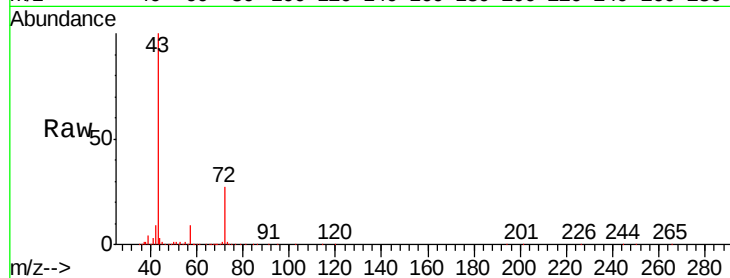
#34
2-Butanone
Concen: 59.16 ppbv
RT: 5.33 min Scan# 745
Delta R.T. -0.01 min
Lab File: VL032822.D
Acq: 28 Nov 2018 00:46

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-04

Tgt Ion: 43 Resp:10381043
Ion Ratio Lower Upper
43 100
72 25.6 18.4 27.6

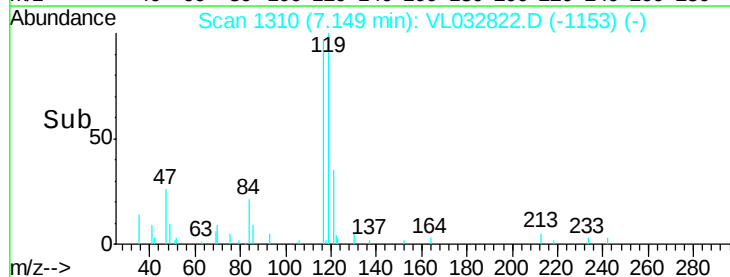
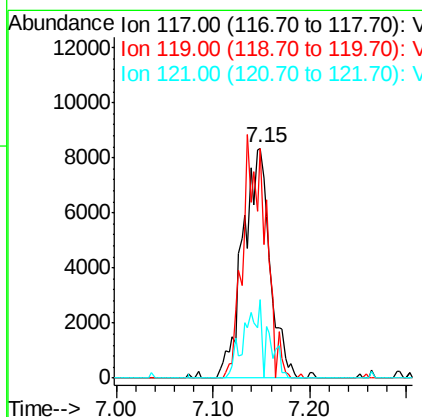
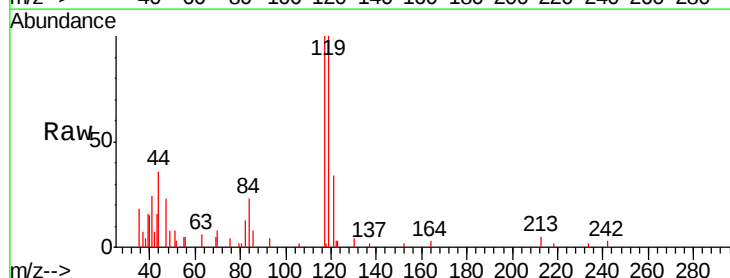
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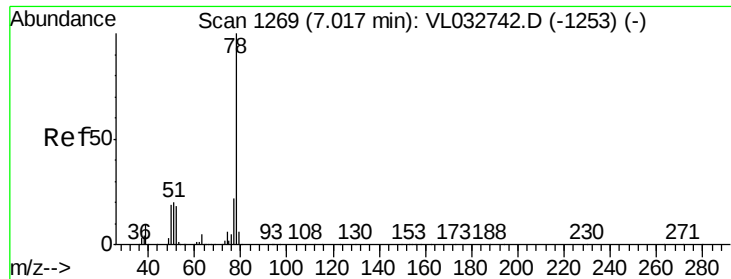
MMDadoda
11/28/2018 4:21:37 PM



#35
Carbon Tetrachloride
Concen: 0.06 ppbv m
RT: 7.15 min Scan# 1310
Delta R.T. 0.00 min
Lab File: VL032822.D
Acq: 28 Nov 2018 00:46

Tgt Ion:117 Resp: 16294
Ion Ratio Lower Upper
117 100
119 99.9 76.1 114.1
121 34.1 25.4 38.0





#36

Benzene

Concen: 0.37 ppbv

RT: 7.02 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VL032822.D

Acq: 28 Nov 2018 00:46

Instrument :

MSVOA_L

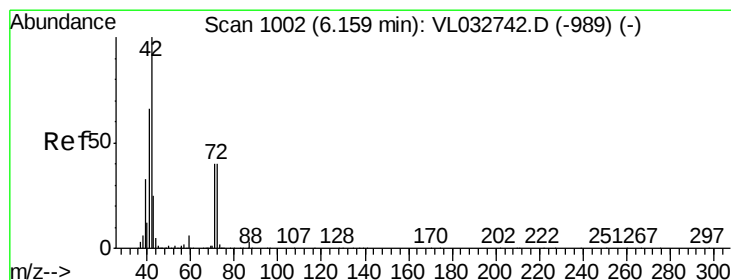
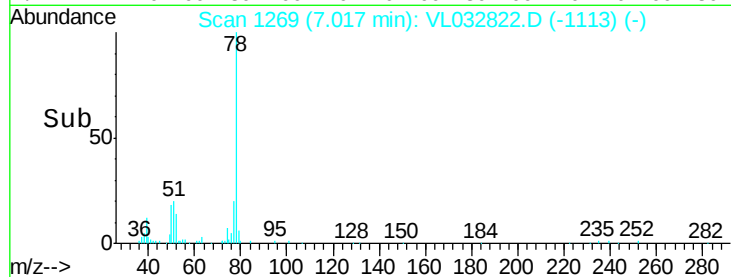
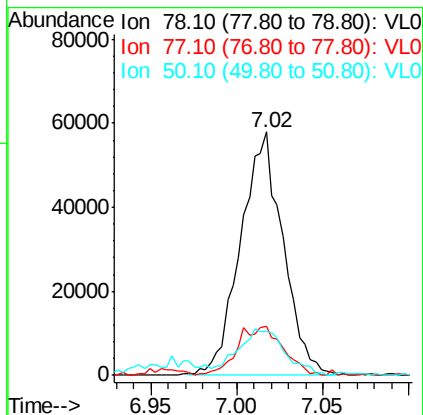
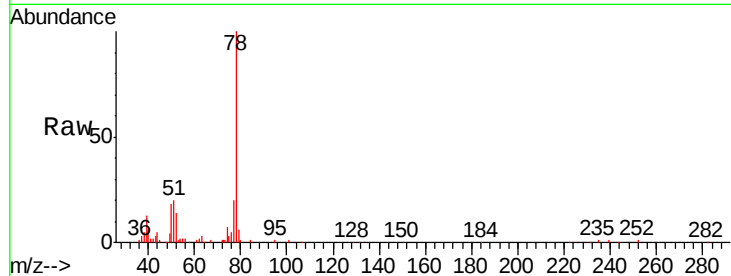
ClientSampleId :

EP2-SV-04

Tgt Ion:	78	Resp:	98454
Ion	Ratio	Lower	Upper
78	100		
77	20.2	17.8	26.8
50	17.3	15.4	23.0

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#41

Tetrahydrofuran

Concen: 5.59 ppbv

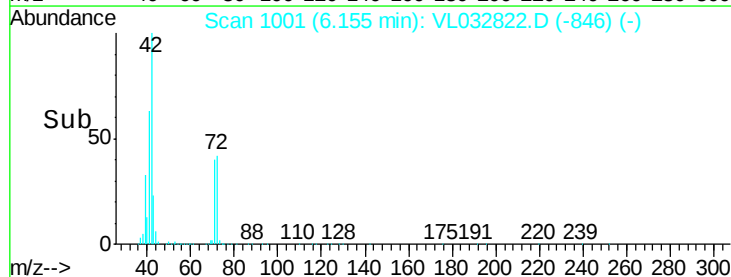
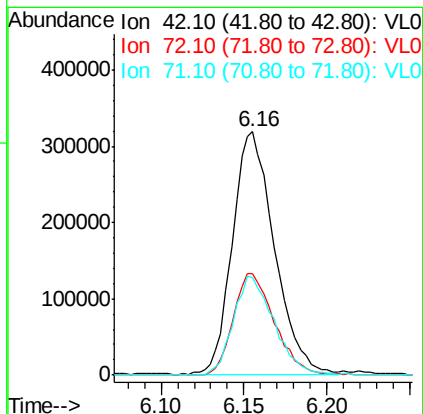
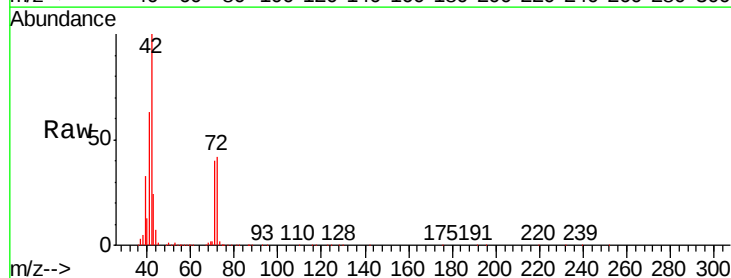
RT: 6.16 min Scan# 1001

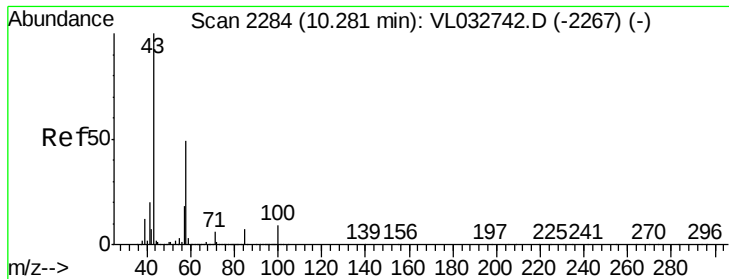
Delta R.T. -0.00 min

Lab File: VL032822.D

Acq: 28 Nov 2018 00:46

Tgt Ion:	42	Resp:	562607
Ion	Ratio	Lower	Upper
42	100		
72	41.6	32.4	48.6
71	39.6	31.6	47.4





#51

2-Hexanone

Concen: 0.35 ppbv

RT: 10.29 min Scan# 2286

Delta R.T. 0.01 min

Lab File: VL032822.D

Acq: 28 Nov 2018 00:46

Instrument :

MSVOA_L

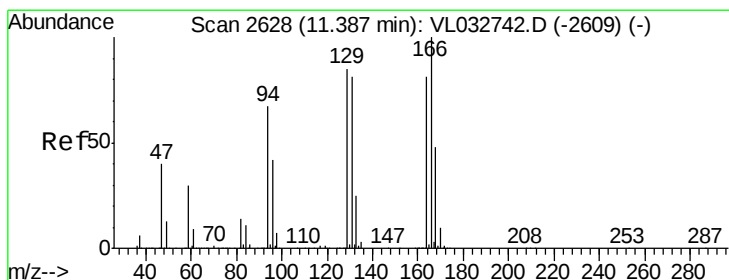
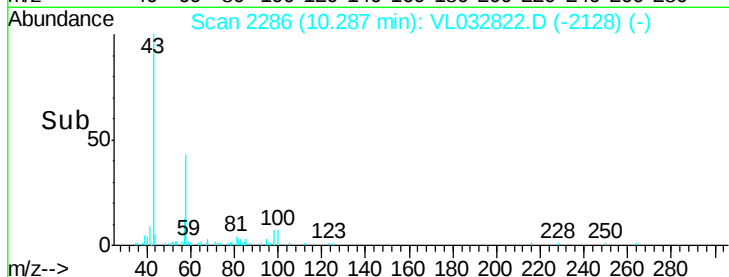
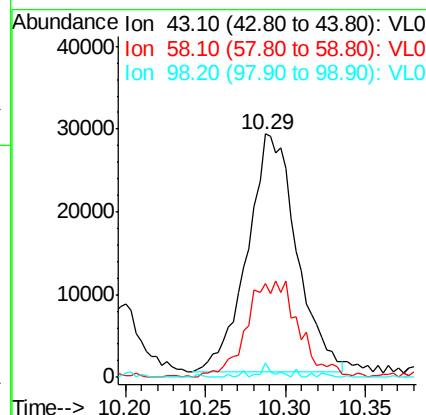
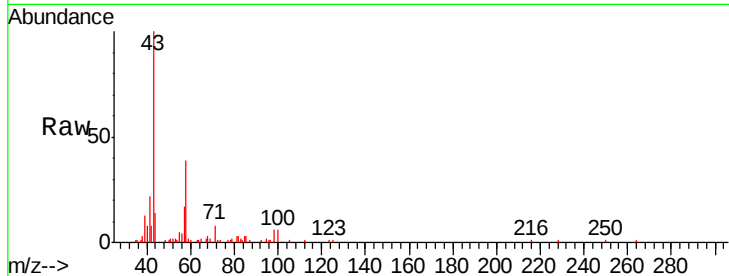
ClientSampleId :

EP2-SV-04

Tgt Ion:	43	Resp:	61050
Ion Ratio	Lower	Upper	
43	100		
58	42.9	38.9	58.3
98	2.7	0.2	0.4#

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#52

Tetrachloroethene

Concen: 17.78 ppbv

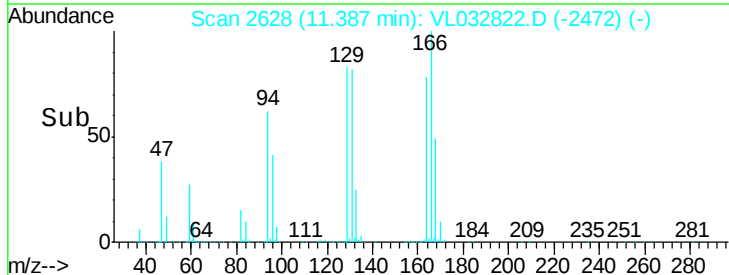
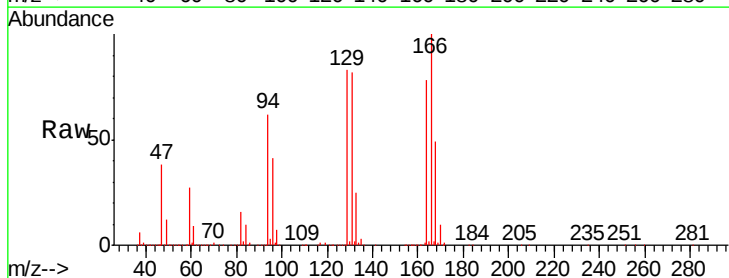
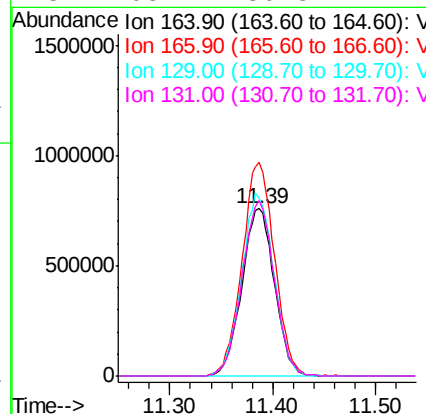
RT: 11.39 min Scan# 2628

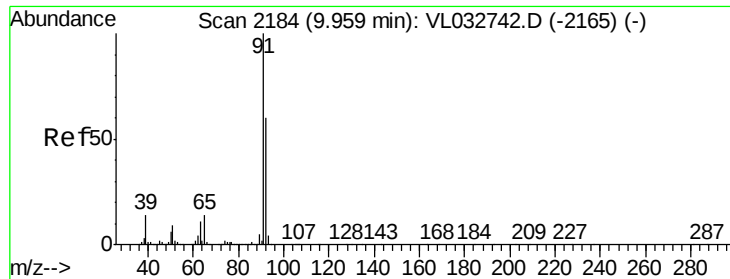
Delta R.T. -0.00 min

Lab File: VL032822.D

Acq: 28 Nov 2018 00:46

Tgt Ion:	164	Resp:	1665761
Ion Ratio	Lower	Upper	
164	100		
166	127.7	99.3	148.9
129	106.0	83.9	125.9
131	105.1	80.8	121.2





#53

Toluene

Concen: 5.15 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032822.D

Acq: 28 Nov 2018 00:46

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-04

Tgt Ion: 91 Resp: 1446640

Ion Ratio Lower Upper

91 100

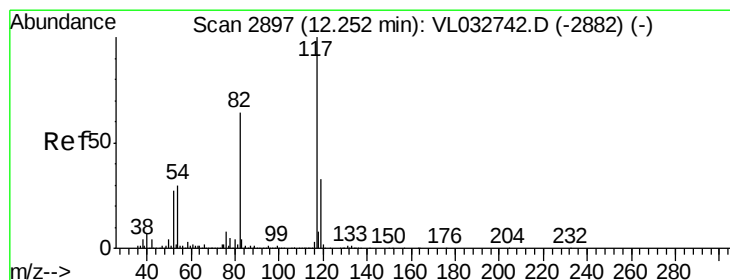
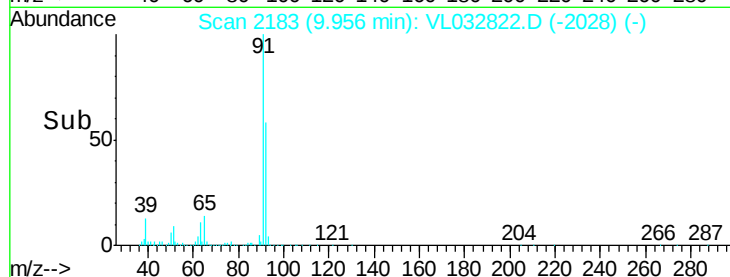
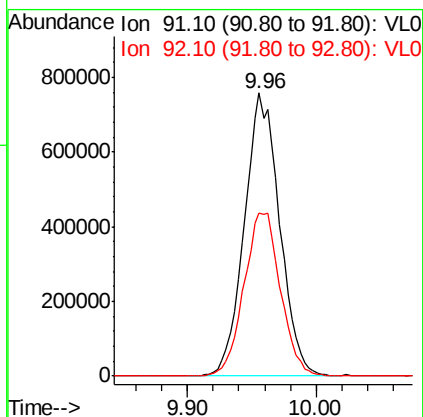
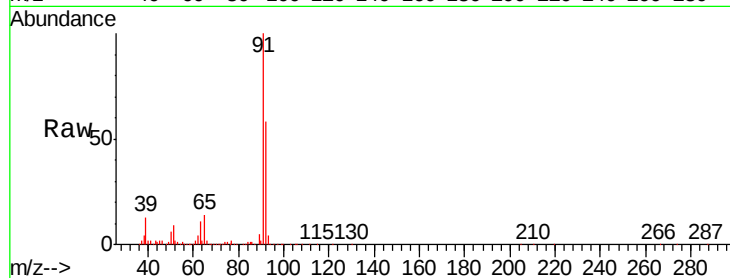
92 59.7 47.9 71.9

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.25 min Scan# 2897

Delta R.T. -0.00 min

Lab File: VL032822.D

Acq: 28 Nov 2018 00:46

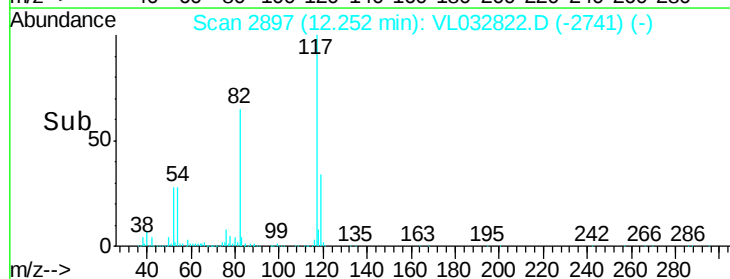
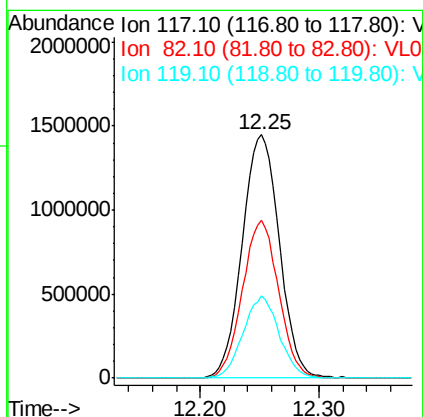
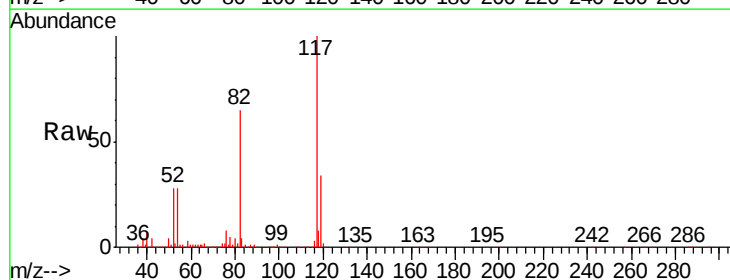
Tgt Ion: 117 Resp: 3129404

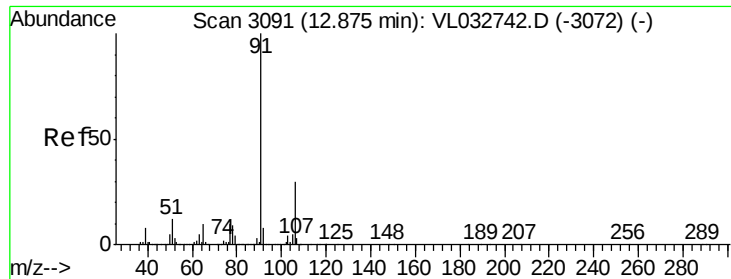
Ion Ratio Lower Upper

117 100

82 63.4 51.0 76.6

119 32.7 28.0 42.0





#58

Ethyl Benzene

Concen: 0.12 ppbv

RT: 12.88 min Scan# 3092

Delta R.T. 0.00 min

Lab File: VL032822.D

Acq: 28 Nov 2018 00:46

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-04

Tgt Ion: 91 Resp: 43512

Ion Ratio Lower Upper

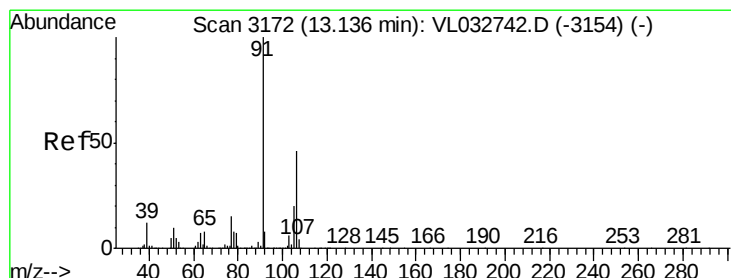
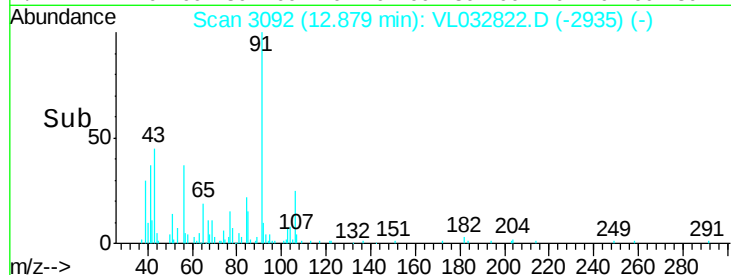
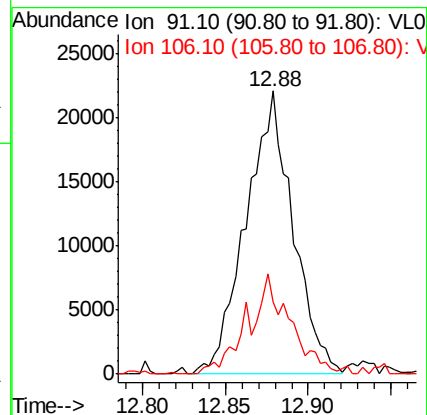
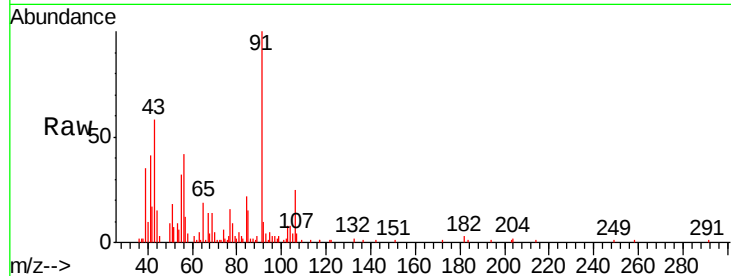
91 100

106 25.4 23.6 35.4

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#59

m/p-Xylene

Concen: 0.31 ppbv m

RT: 13.13 min Scan# 3170

Delta R.T. -0.01 min

Lab File: VL032822.D

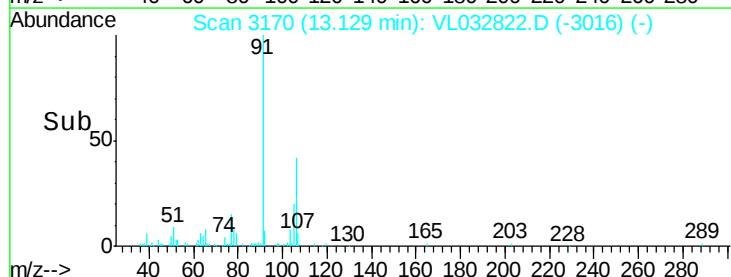
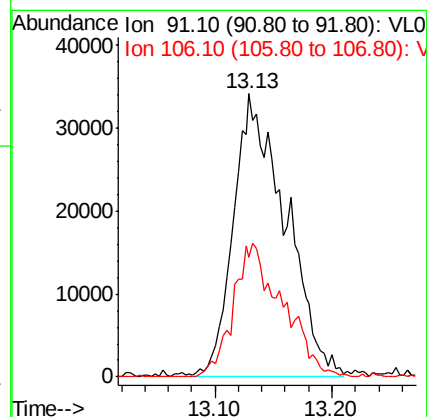
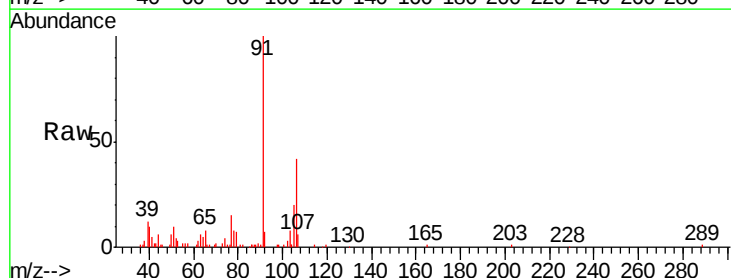
Acq: 28 Nov 2018 00:46

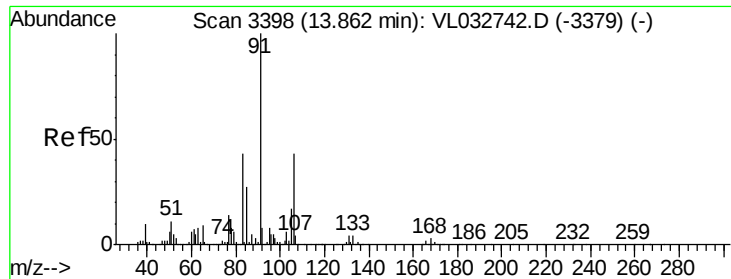
Tgt Ion: 91 Resp: 105547

Ion Ratio Lower Upper

91 100

106 44.8 36.1 54.1





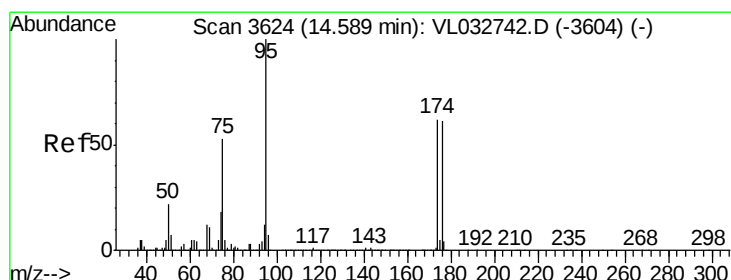
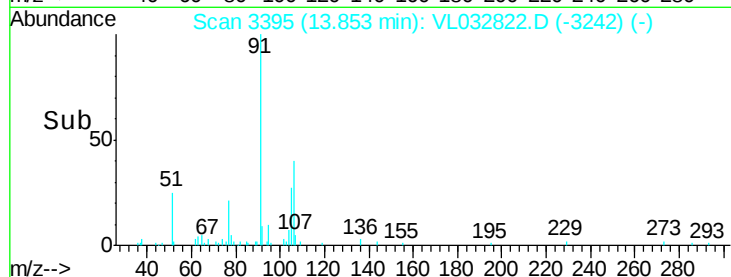
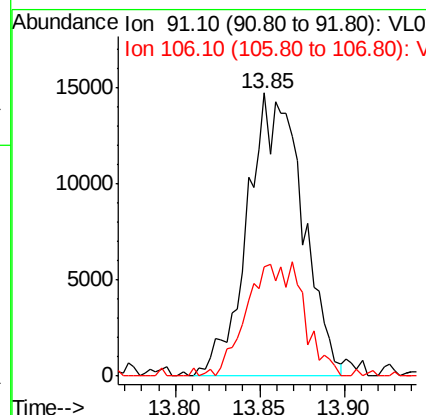
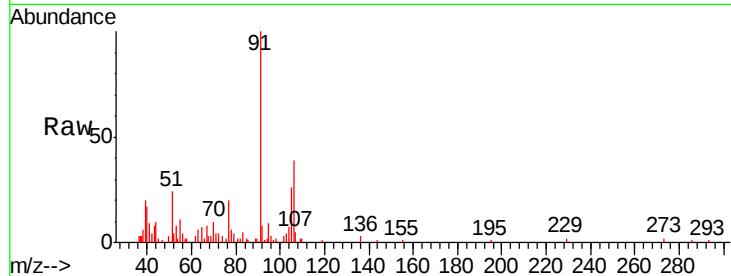
#60
o-Xylene
Concen: 0.10 ppbv m
RT: 13.85 min Scan# 3395
Delta R.T. -0.01 min
Lab File: VL032822.D
Acq: 28 Nov 2018 00:46

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-04

Tgt Ion: 91 Resp: 33365
Ion Ratio Lower Upper
91 100
106 41.2 21.9 65.7

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#68
1-Bromo-4-Fluorobenzene
Concen: 10.01 ppbv
RT: 14.59 min Scan# 3623
Delta R.T. -0.00 min
Lab File: VL032822.D
Acq: 28 Nov 2018 00:46

Tgt Ion: 95 Resp: 2343279
Ion Ratio Lower Upper
95 100
174 65.8 50.7 76.1
175 5.0 3.8 5.6

