

Data File : VL032827.D
Acq On : 28 Nov 2018 12:10
Operator : SY/AP
Sample : J6046-05DUP
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EP2-OA-01DUP

Quant Time: Nov 28 14:36:59 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 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	1204952	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3072705	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2741344	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2033333	9.92	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

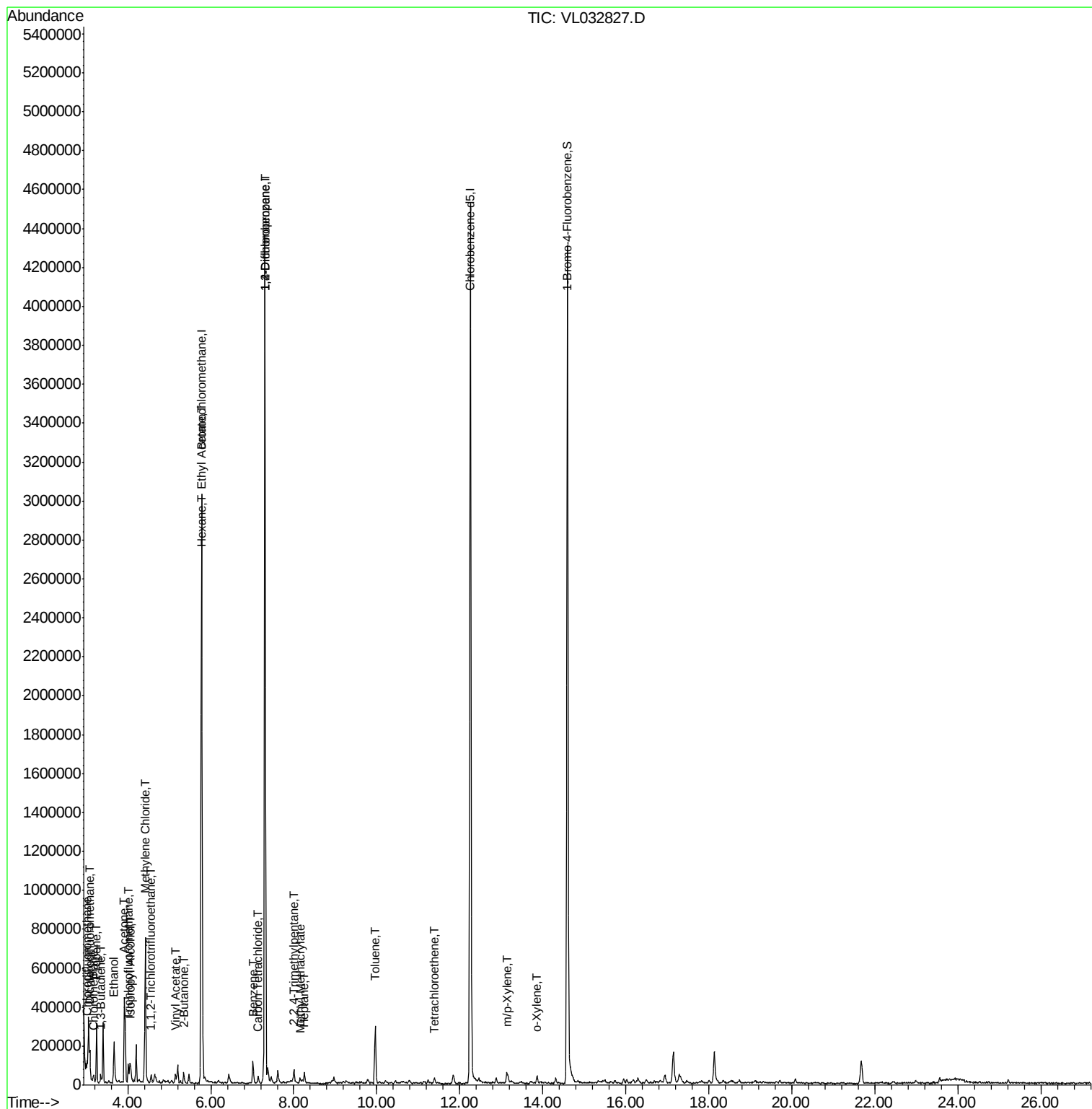
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.09	85	104239	0.602	ppbv	95
3) Chlorodifluoromethane	3.02	51	89063	0.932	ppbv	92
4) Chloromethane	3.18	50	26114	0.493	ppbv #	87
9) Propene	3.25	41	74513	1.949	ppbv	97
10) Heptane	8.25	43	15313	0.105	ppbv	87
11) Trichlorofluoromethane	4.01	101	62890	0.385	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.57	101	14268	0.107	ppbv	97
13) Ethanol	3.67	45	235131	18.778	ppbv	99
15) Acetone	3.91	43	484135	4.400	ppbv	93
16) 1,3-Butadiene	3.35	39	10984	0.258	ppbv #	57
19) Isopropyl Alcohol	4.05	45	126817	1.730	ppbv #	91
20) Methylene Chloride	4.42	84	254101	4.461	ppbv	92
23) Vinyl Acetate	5.16	43	8171	0.041	ppbv #	46
25) Ethyl Acetate	5.79	43	223116	0.870	ppbv #	87
26) Hexane	5.79	57	237275	2.078	ppbv #	51
34) 2-Butanone	5.35	43	57345	0.360	ppbv	97
35) Carbon Tetrachloride	7.14	117	11289	0.046	ppbv #	82
36) Benzene	7.02	78	90520	0.370	ppbv	94
39) 1,2-Dichloropropane	7.30	63	770090	8.260	ppbv #	23
43) Methyl Methacrylate	8.16	69	9561	0.105	ppbv #	75
44) 2,2,4-Trimethylpentane	8.01	57	22559	0.055	ppbv #	1
52) Tetrachloroethene	11.39	164	3304	0.039	ppbv #	77
53) Toluene	9.96	91	204580	0.801	ppbv	96
59) m/p-Xylene	13.14	91	11080	0.038	ppbv #	31
60) o-Xylene	13.87	91	18547	0.063	ppbv	93

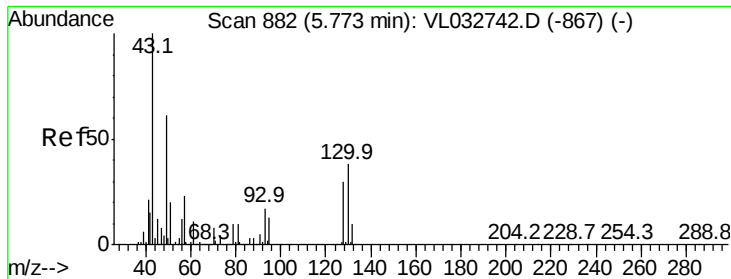
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.00 min

Lab File: VL032827.D

Acq: 28 Nov 2018 12:10

Instrument :

MSVOA_L

ClientSampleId :

EP2-OA-01DUP

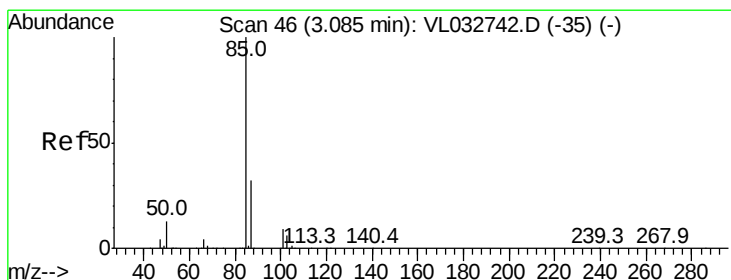
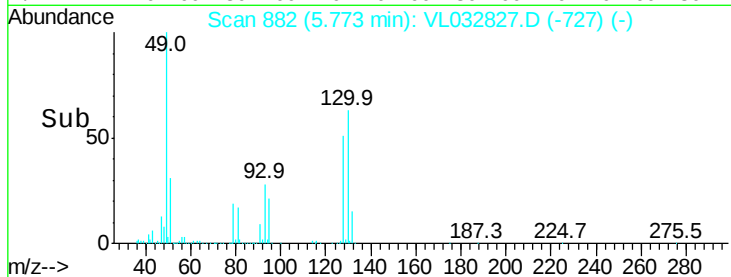
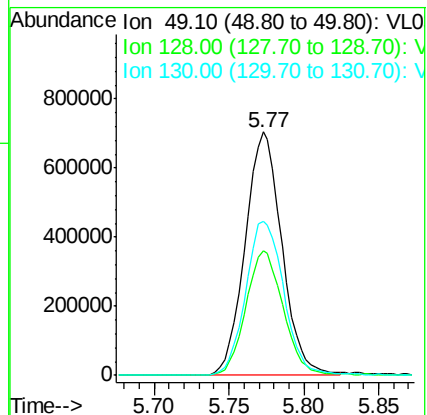
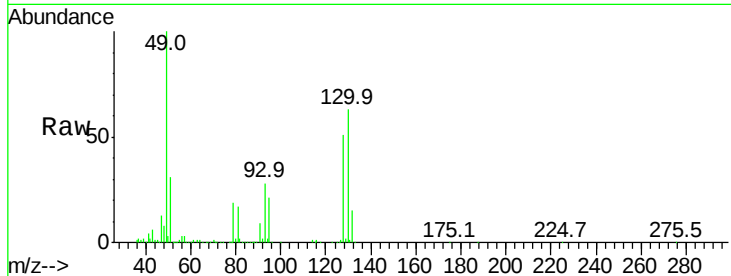
Tgt Ion: 49 Resp: 1204952

Ion Ratio Lower Upper

49 100

128 52.6 24.9 74.6

130 66.1 31.4 94.2



#2

Dichlorodifluoromethane

Concen: 0.602 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032827.D

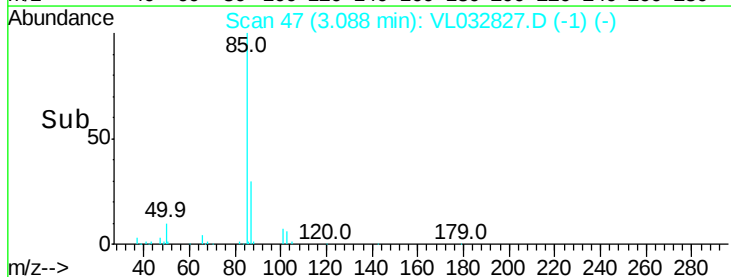
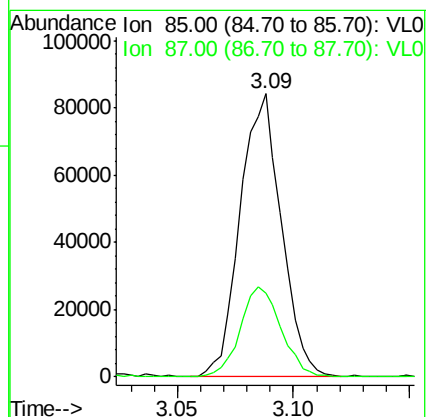
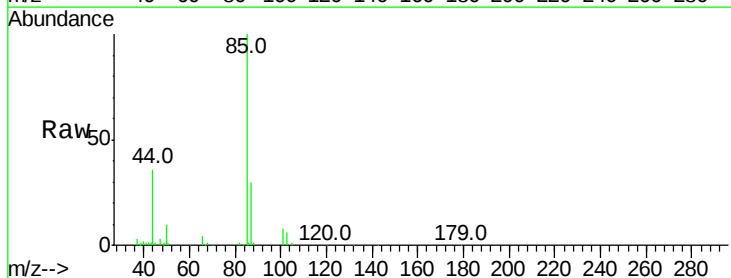
Acq: 28 Nov 2018 12:10

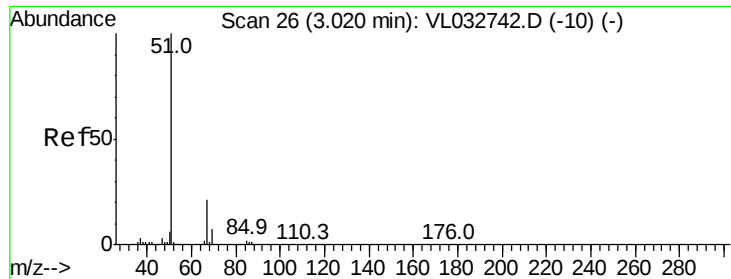
Tgt Ion: 85 Resp: 104239

Ion Ratio Lower Upper

85 100

87 29.5 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.932 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL032827.D

Acq: 28 Nov 2018 12:10

Instrument :

MSVOA_L

ClientSampleId :

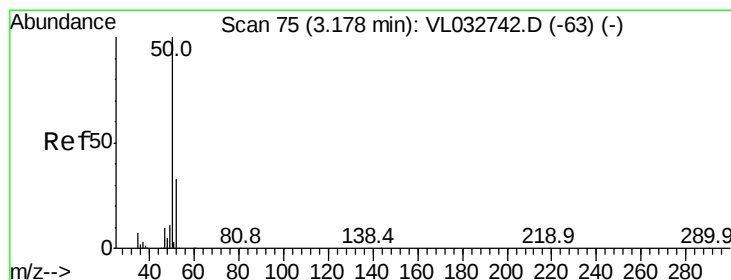
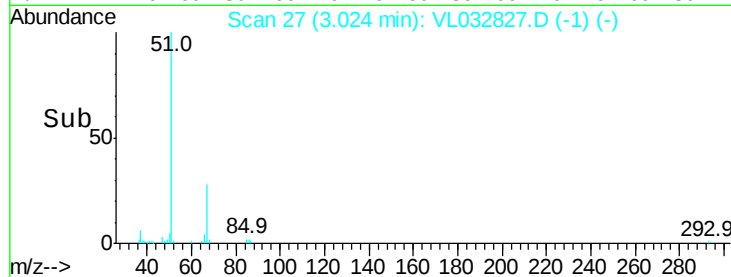
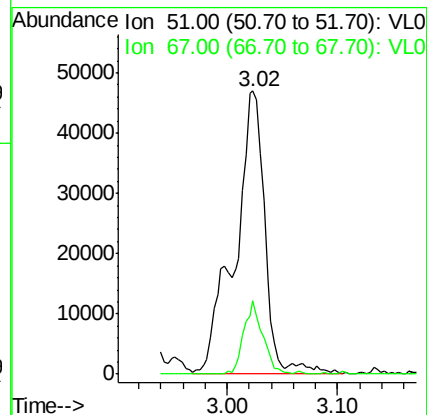
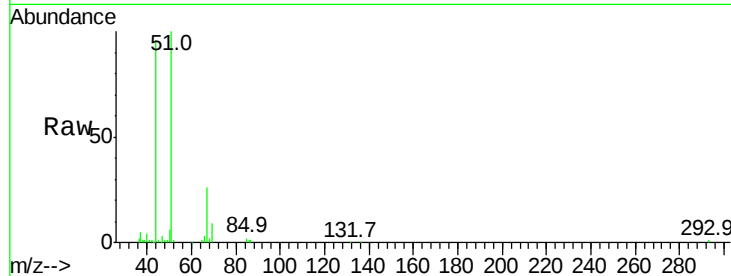
EP2-OA-01DUP

Tgt Ion: 51 Resp: 89063

Ion Ratio Lower Upper

51 100

67 16.4 16.1 24.1



#4

Chloromethane

Concen: 0.493 ppbv

RT: 3.18 min Scan# 77

Delta R.T. 0.01 min

Lab File: VL032827.D

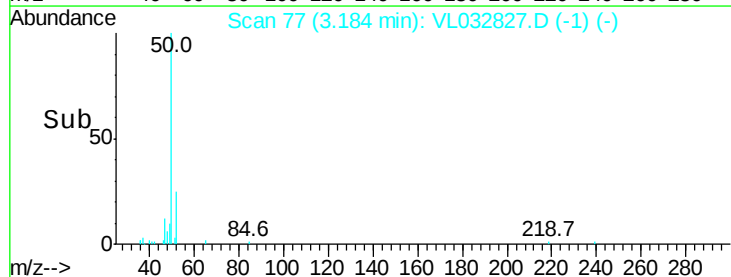
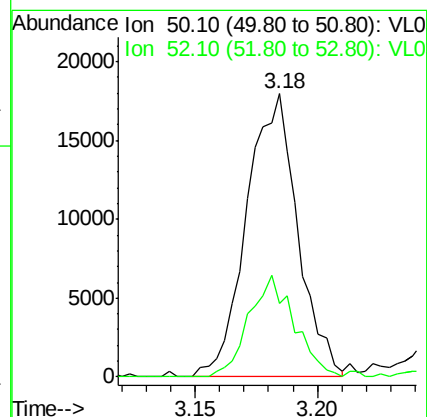
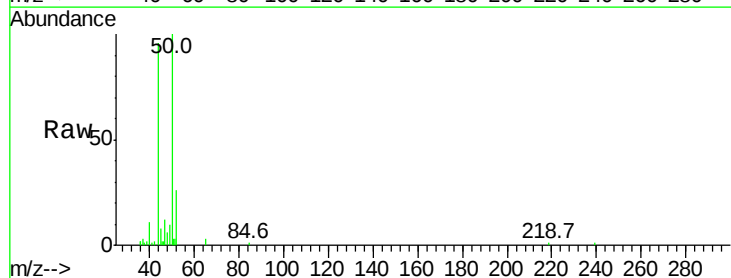
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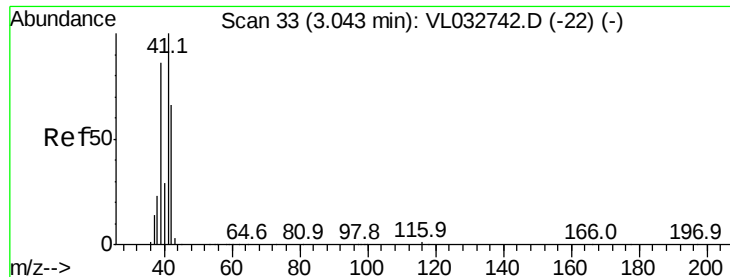
Tgt Ion: 50 Resp: 26114

Ion Ratio Lower Upper

50 100

52 26.0 26.6 40.0#





#9

Propene

Concen: 1.949 ppbv

RT: 3.25 min Scan# 97

Delta R.T. 0.21 min

Lab File: VL032827.D

Acq: 28 Nov 2018 12:10

Instrument :

MSVOA_L

ClientSampleId :

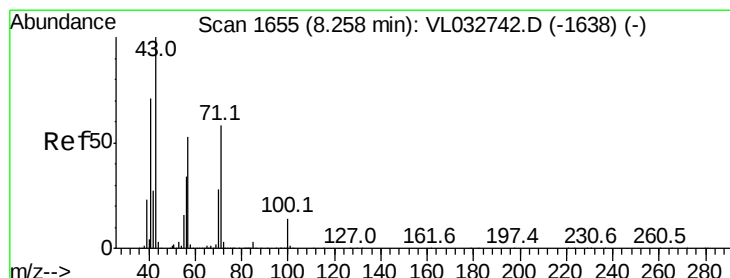
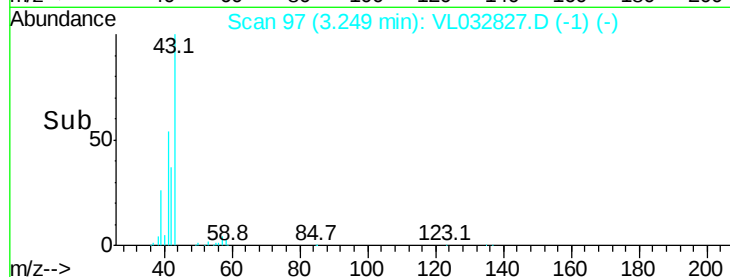
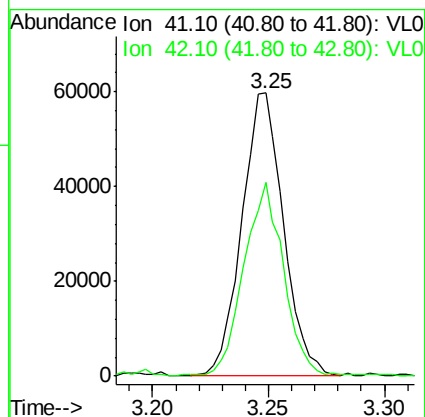
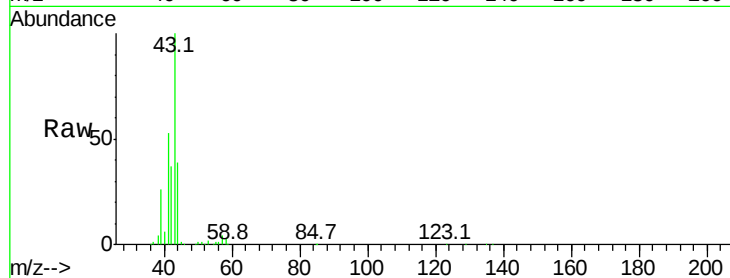
EP2-OA-01DUP

Tgt Ion: 41 Resp: 74513

Ion Ratio Lower Upper

41 100

42 66.1 55.0 82.6



#10

Heptane

Concen: 0.105 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032827.D

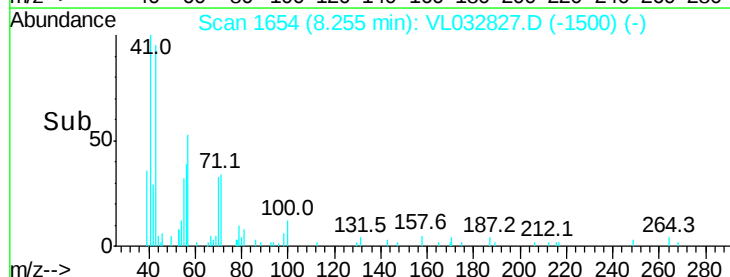
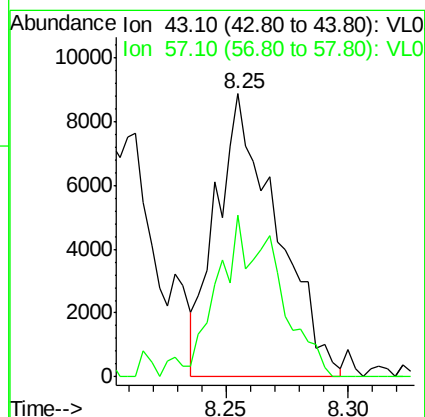
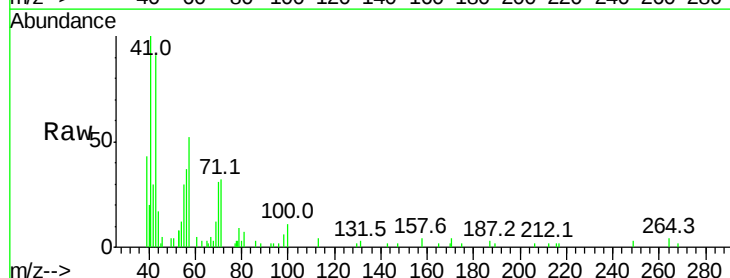
Acq: 28 Nov 2018 12:10

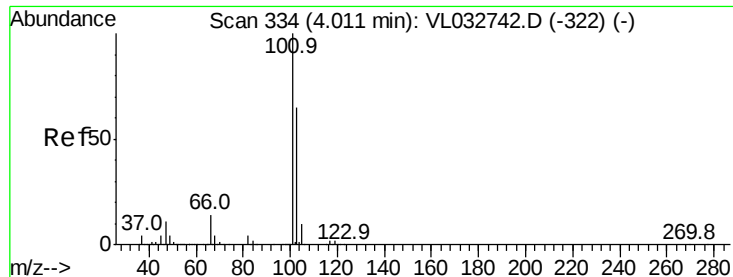
Tgt Ion: 43 Resp: 15313

Ion Ratio Lower Upper

43 100

57 61.3 41.8 62.8

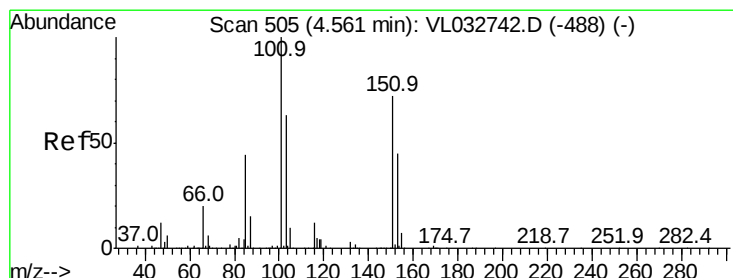
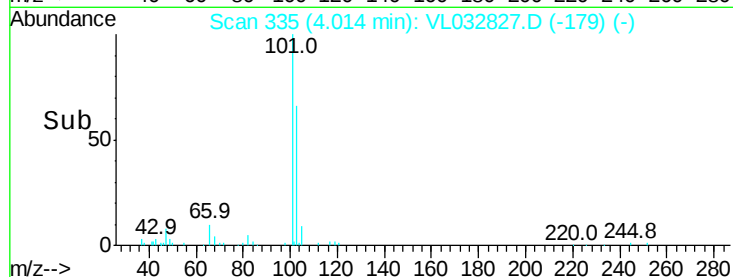
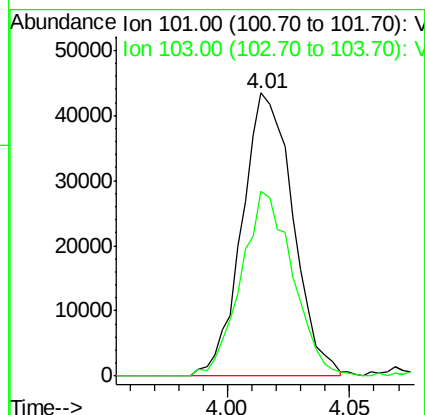
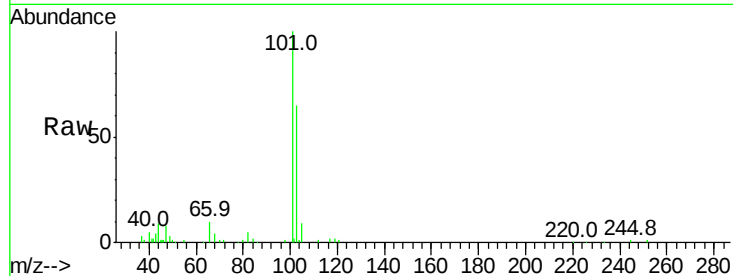




#11
 Trichlorofluoromethane
 Concen: 0.385 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. 0.00 min
 Lab File: VL032827.D
 Acq: 28 Nov 2018 12:10

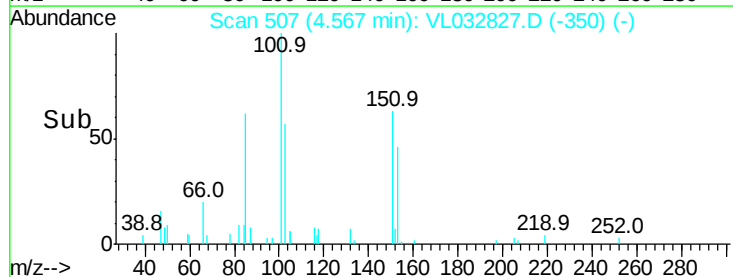
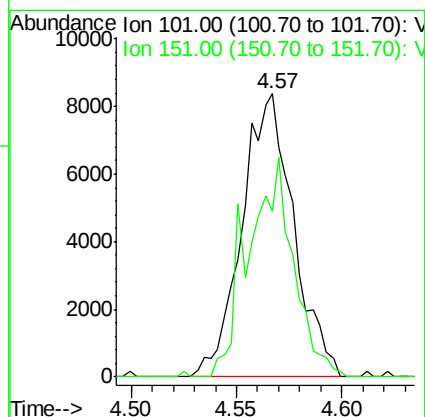
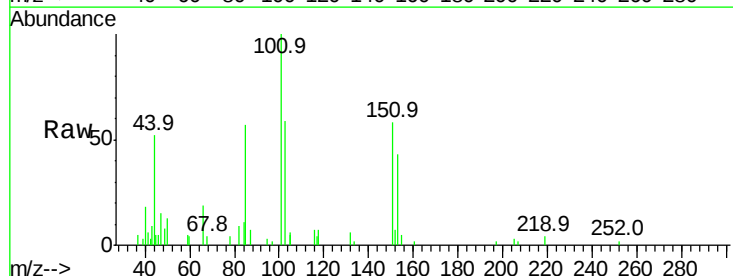
Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-OA-01DUP

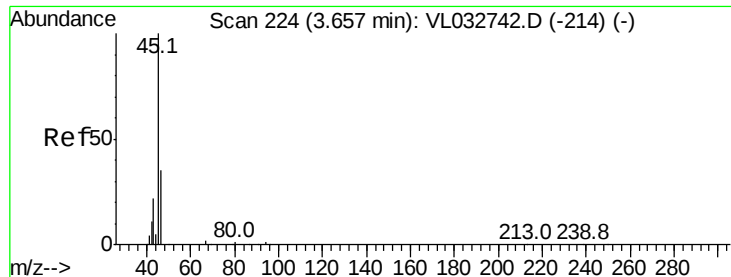
Tgt Ion:101 Resp: 62890
 Ion Ratio Lower Upper
 101 100
 103 65.4 51.6 77.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.107 ppbv
 RT: 4.57 min Scan# 507
 Delta R.T. 0.01 min
 Lab File: VL032827.D
 Acq: 28 Nov 2018 12:10

Tgt Ion:101 Resp: 14268
 Ion Ratio Lower Upper
 101 100
 151 68.3 56.7 85.1





#13

Ethanol

Concen: 18.778 ppbv

RT: 3.67 min Scan# 228

Delta R.T. 0.01 min

Lab File: VL032827.D

Acq: 28 Nov 2018 12:10

Instrument :

MSVOA_L

ClientSampleId :

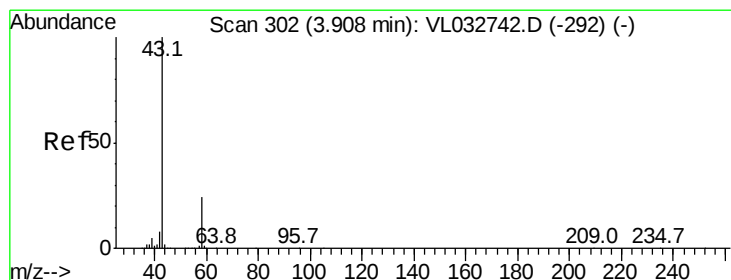
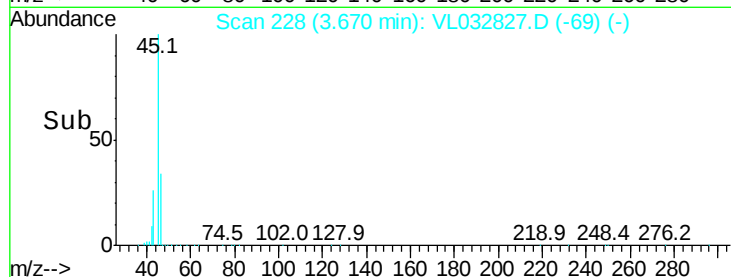
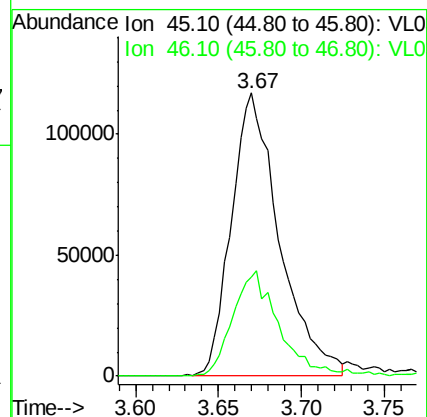
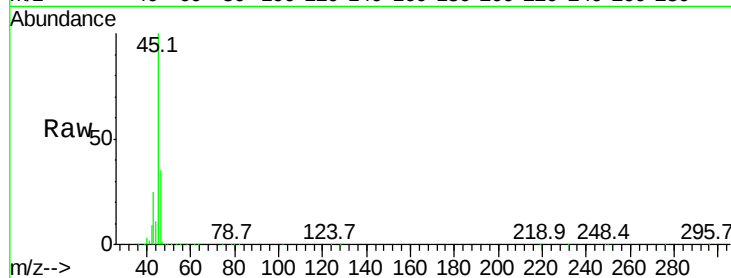
EP2-OA-01DUP

Tgt Ion: 45 Resp: 235131

Ion Ratio Lower Upper

45 100

46 36.9 14.5 57.9



#15

Acetone

Concen: 4.400 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL032827.D

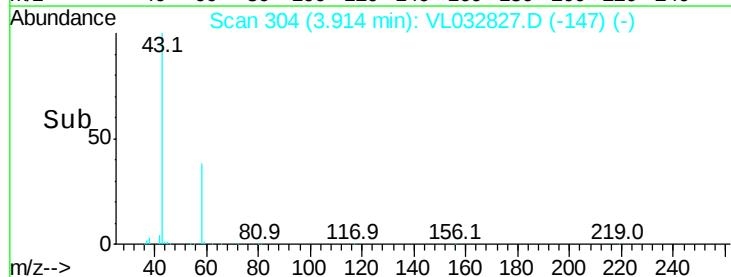
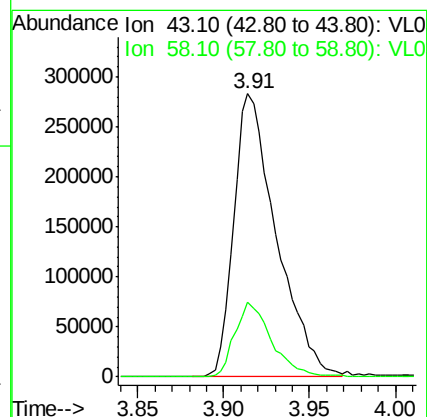
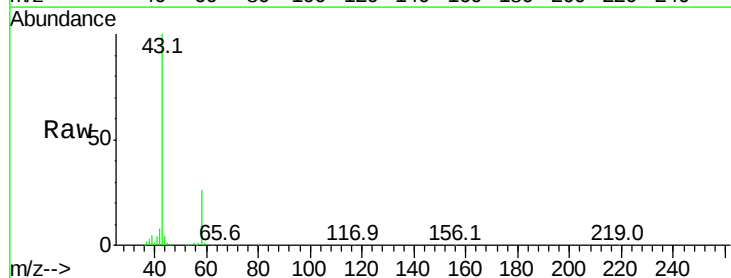
Acq: 28 Nov 2018 12:10

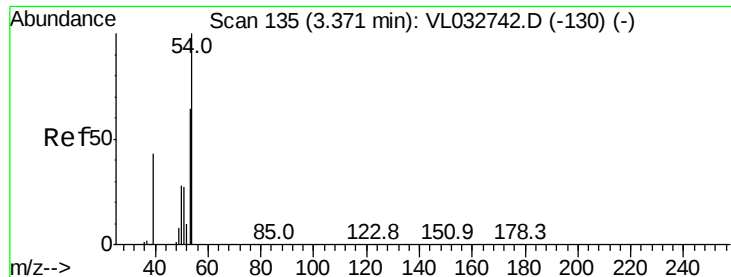
Tgt Ion: 43 Resp: 484135

Ion Ratio Lower Upper

43 100

58 23.0 21.1 31.7

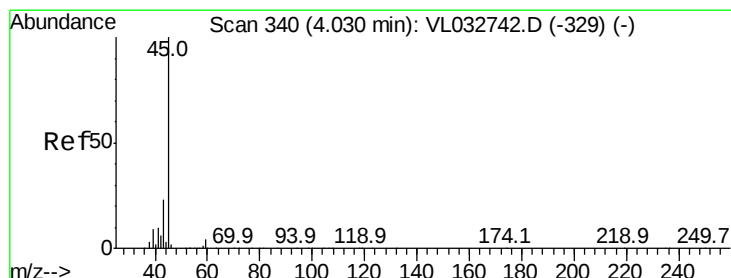
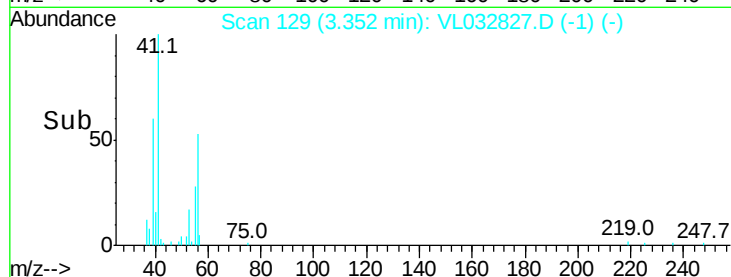
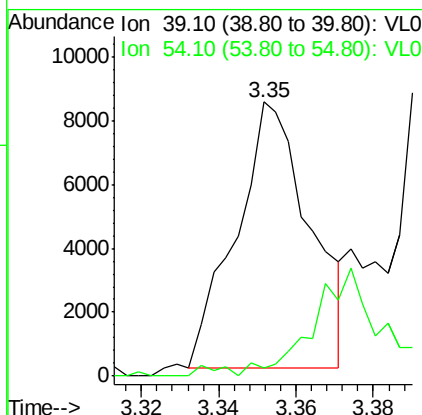
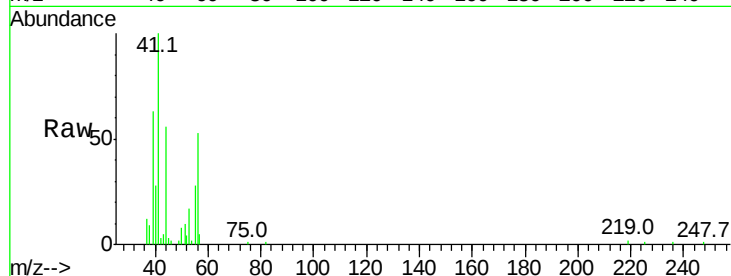




#16
 1,3-Butadiene
 Concen: 0.258 ppbv
 RT: 3.35 min Scan# 129
 Delta R.T. -0.02 min
 Lab File: VL032827.D
 Acq: 28 Nov 2018 12:10

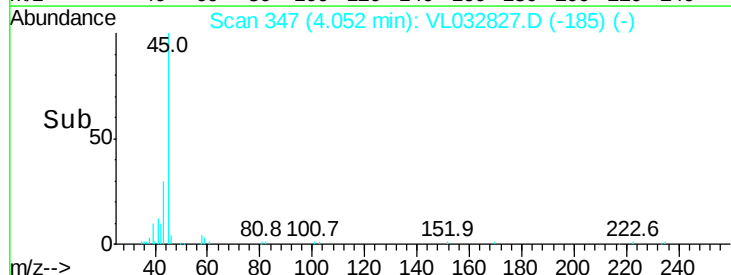
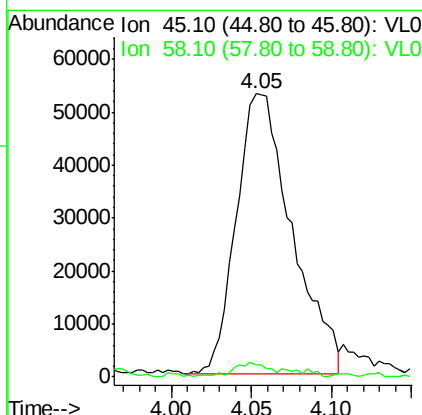
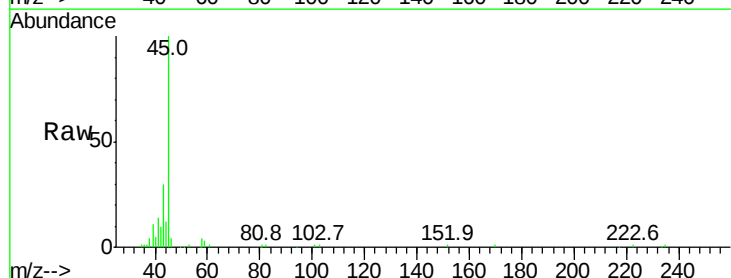
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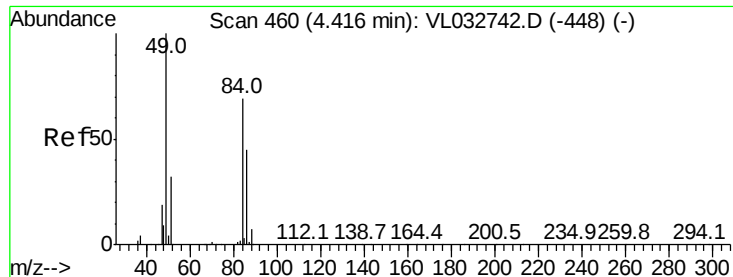
Tgt Ion: 39 Resp: 10984
 Ion Ratio Lower Upper
 39 100
 54 46.5 68.9 103.3#



#19
 Isopropyl Alcohol
 Concen: 1.730 ppbv
 RT: 4.05 min Scan# 347
 Delta R.T. 0.02 min
 Lab File: VL032827.D
 Acq: 28 Nov 2018 12:10

Tgt Ion: 45 Resp: 126817
 Ion Ratio Lower Upper
 45 100
 58 5.0 1.4 2.0#

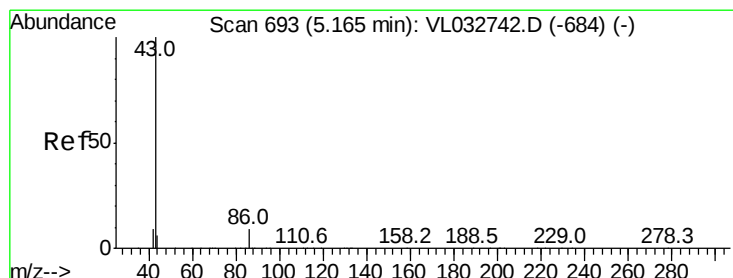
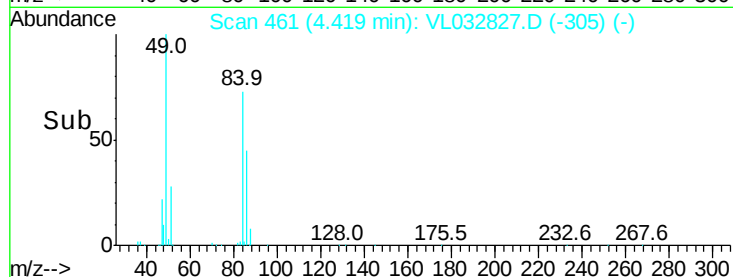
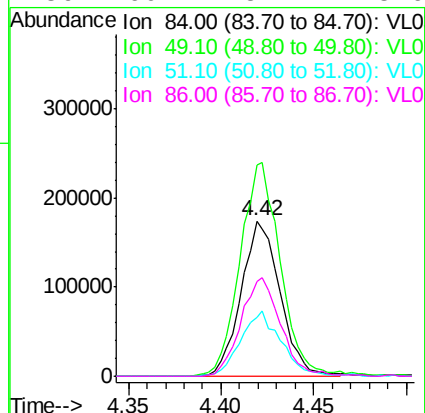
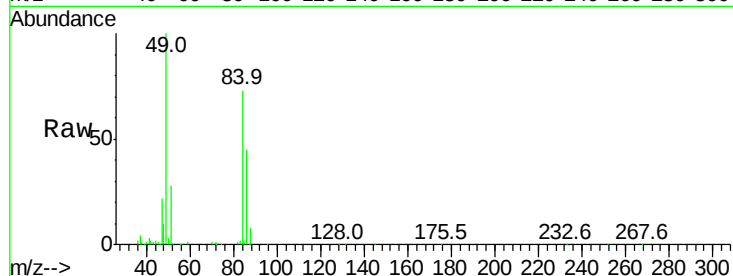




#20
Methylene Chloride
Concen: 4.461 ppbv
RT: 4.42 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL032827.D
Acq: 28 Nov 2018 12:10

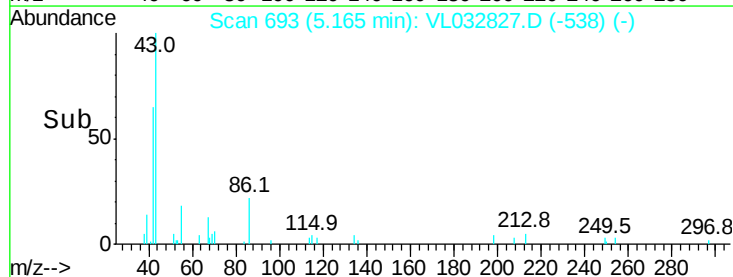
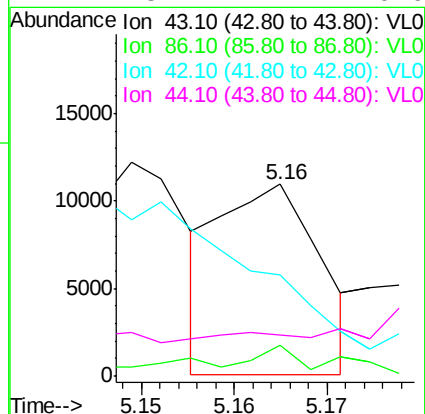
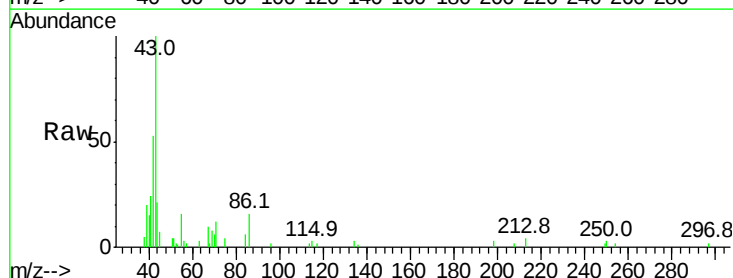
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EP2-OA-01DUP

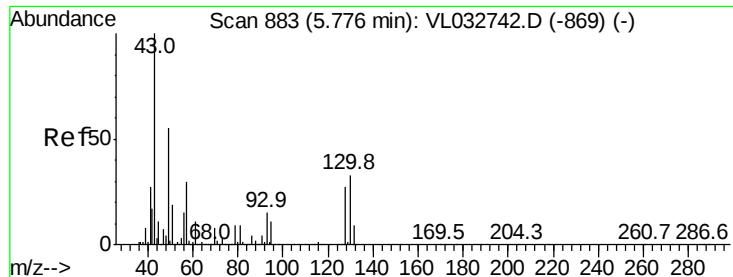
Tgt Ion:	84	Resp:	254101
Ion	Ratio	Lower	Upper
84	100		
49	136.0	115.8	173.6
51	38.0	36.9	55.3
86	60.4	52.4	78.6



#23
Vinyl Acetate
Concen: 0.041 ppbv
RT: 5.16 min Scan# 693
Delta R.T. -0.00 min
Lab File: VL032827.D
Acq: 28 Nov 2018 12:10

Tgt Ion:	43	Resp:	8171
Ion	Ratio	Lower	Upper
43	100		
86	11.5	6.2	9.4#
42	52.2	7.8	11.6#
44	3.2	4.4	6.6#

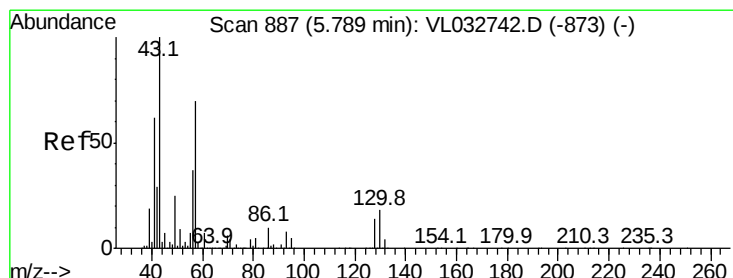
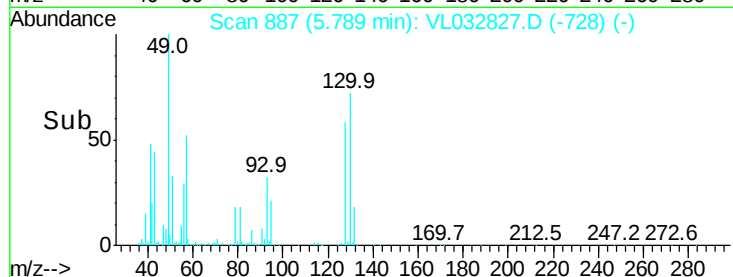
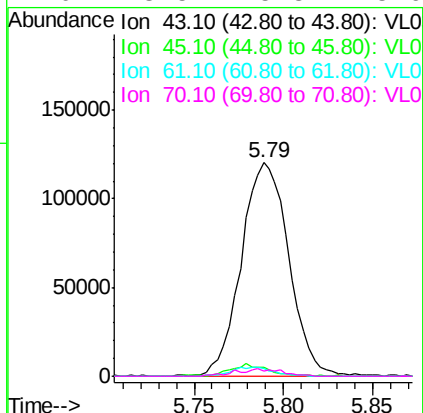
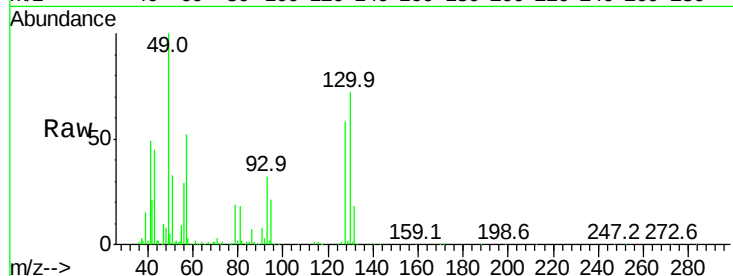




#25
Ethyl Acetate
Concen: 0.870 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.01 min
Lab File: VL032827.D
Acq: 28 Nov 2018 12:10

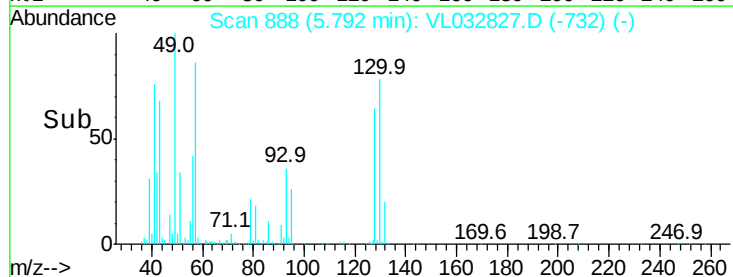
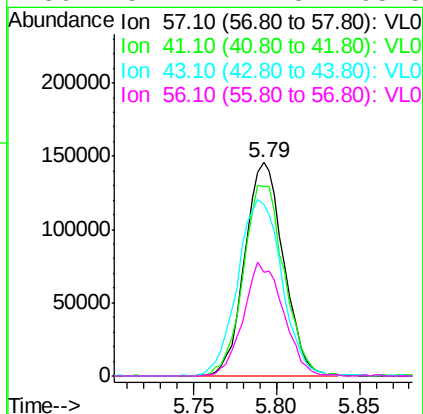
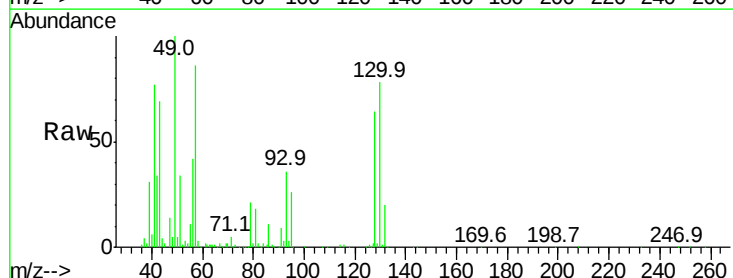
Instrument :
MSVOA_L
ClientSampleId :
EP2-OA-01DUP

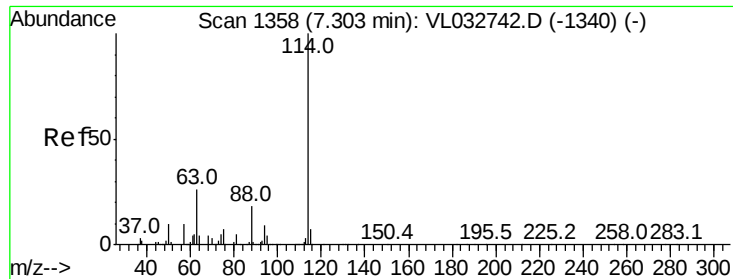
Tgt Ion:	43	Resp:	223116
Ion	Ratio	Lower	Upper
43	100		
45	5.1	7.9	11.9#
61	4.0	7.8	11.6#
70	3.5	5.8	8.6#



#26
Hexane
Concen: 2.078 ppbv
RT: 5.79 min Scan# 888
Delta R.T. 0.00 min
Lab File: VL032827.D
Acq: 28 Nov 2018 12:10

Tgt Ion:	57	Resp:	237275
Ion	Ratio	Lower	Upper
57	100		
41	94.6	70.3	105.5
43	94.7	174.0	261.0#
56	54.7	42.3	63.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VL032827.D

Acq: 28 Nov 2018 12:10

Instrument :

MSVOA_L

ClientSampleId :

EP2-OA-01DUP

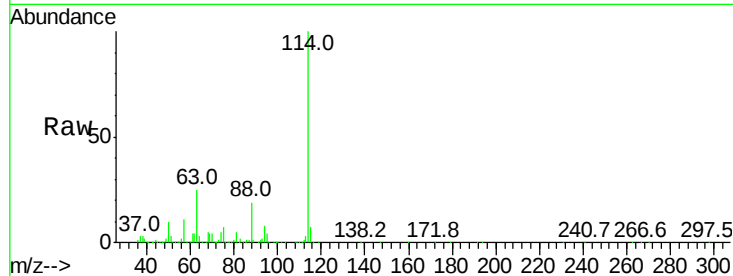
Tgt Ion:114 Resp: 3072705

Ion Ratio Lower Upper

114 100

63 25.2 20.9 31.3

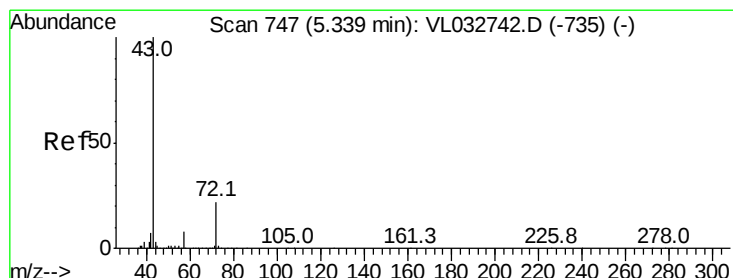
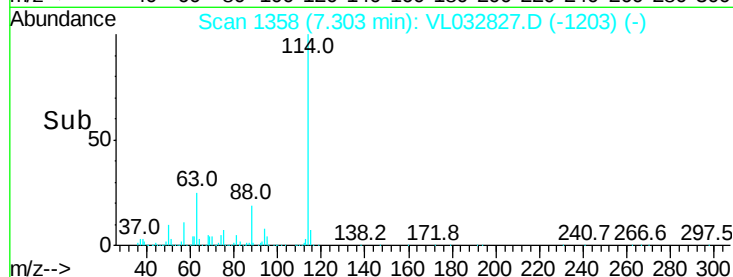
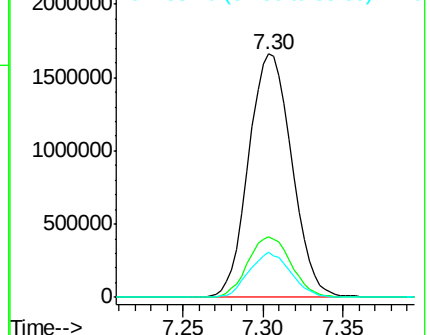
88 17.8 14.4 21.6



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



#34

2-Butanone

Concen: 0.360 ppbv

RT: 5.35 min Scan# 750

Delta R.T. 0.01 min

Lab File: VL032827.D

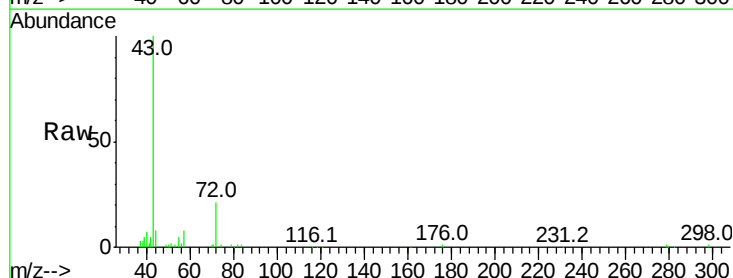
Acq: 28 Nov 2018 12:10

Tgt Ion: 43 Resp: 57345

Ion Ratio Lower Upper

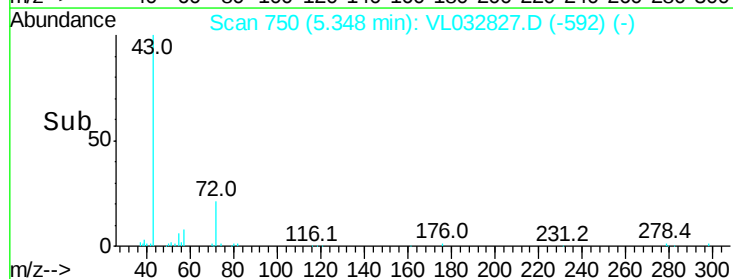
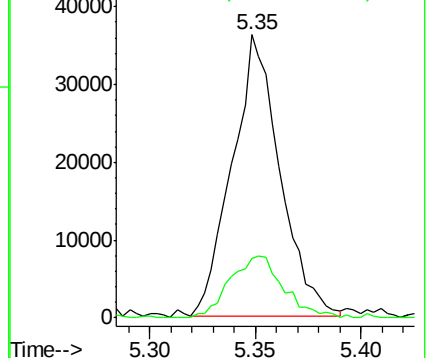
43 100

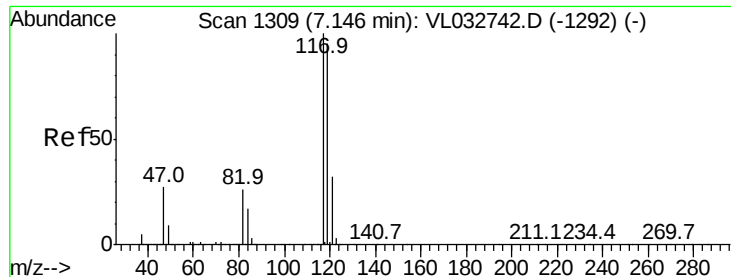
72 24.6 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.046 ppbv

RT: 7.14 min Scan# 1308

Delta R.T. -0.00 min

Lab File: VL032827.D

Acq: 28 Nov 2018 12:10

Instrument :

MSVOA_L

ClientSampleId :

EP2-OA-01DUP

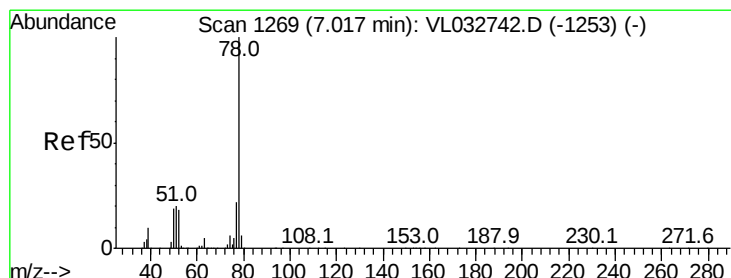
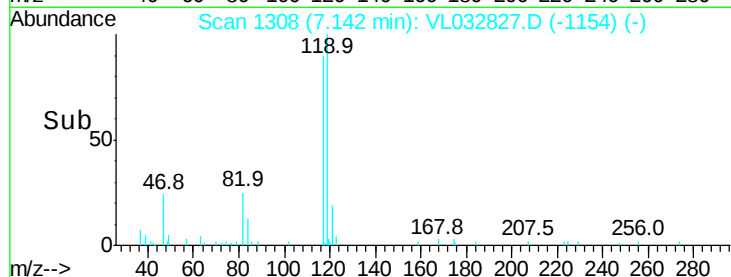
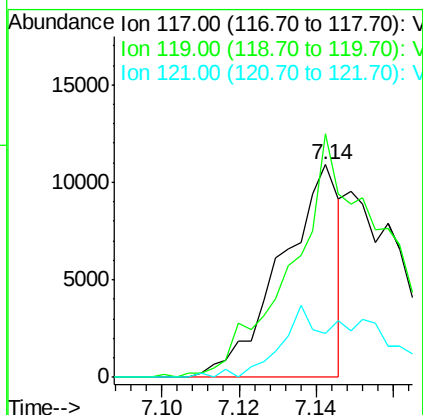
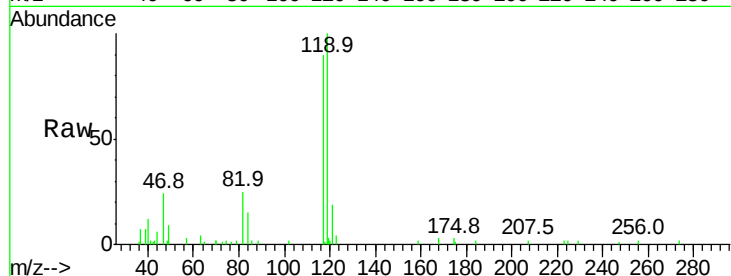
Tgt Ion:117 Resp: 11289

Ion Ratio Lower Upper

117 100

119 112.6 76.1 114.1

121 20.7 25.4 38.0#



#36

Benzene

Concen: 0.370 ppbv

RT: 7.02 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VL032827.D

Acq: 28 Nov 2018 12:10

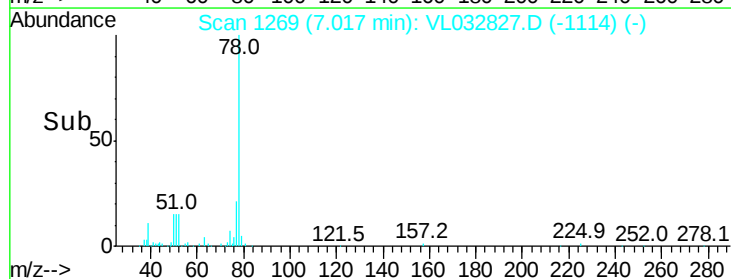
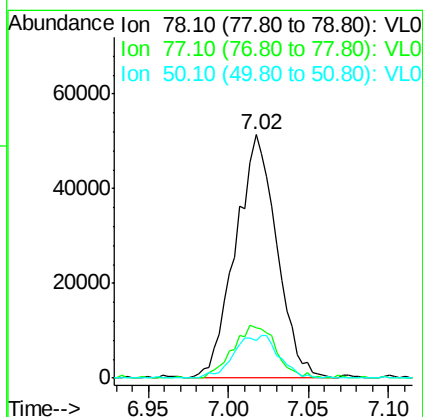
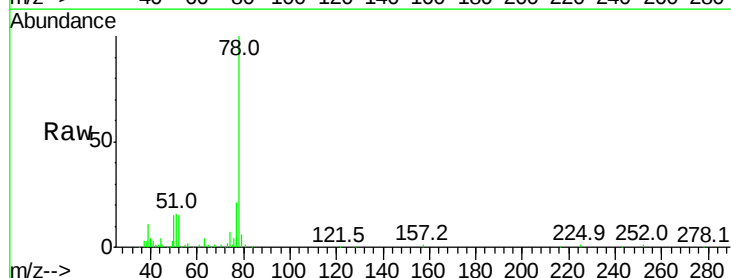
Tgt Ion: 78 Resp: 90520

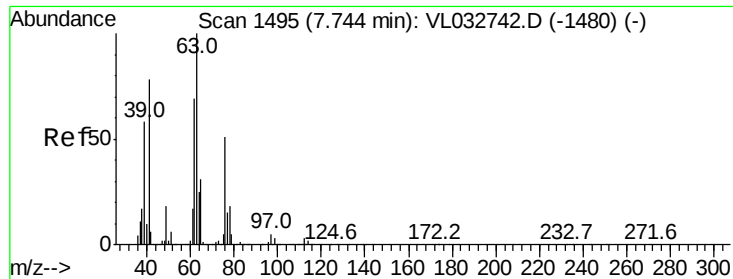
Ion Ratio Lower Upper

78 100

77 20.7 17.8 26.8

50 15.5 15.4 23.0





#39

1,2-Dichloropropane

Concen: 8.260 ppbv

RT: 7.30 min Scan# 1358

Delta R.T. -0.44 min

Lab File: VL032827.D

Acq: 28 Nov 2018 12:10

Instrument :

MSVOA_L

ClientSampleId :

EP2-OA-01DUP

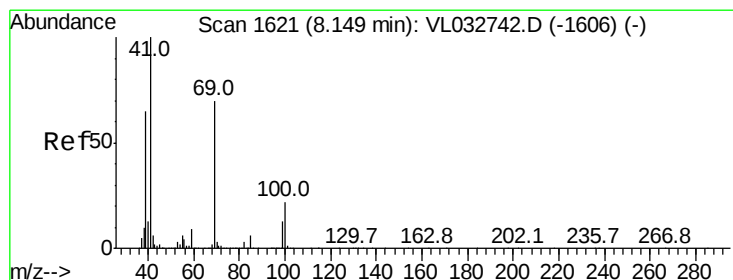
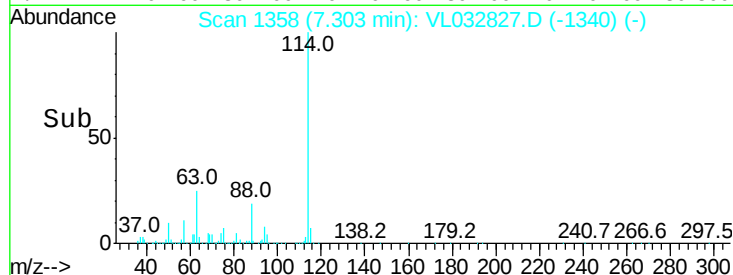
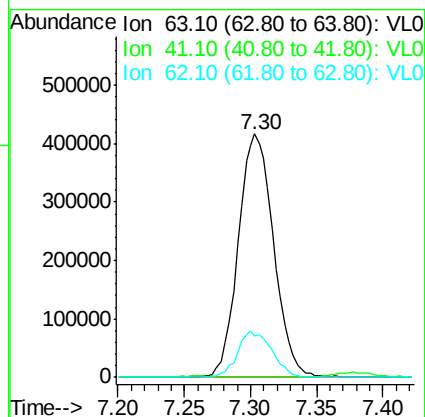
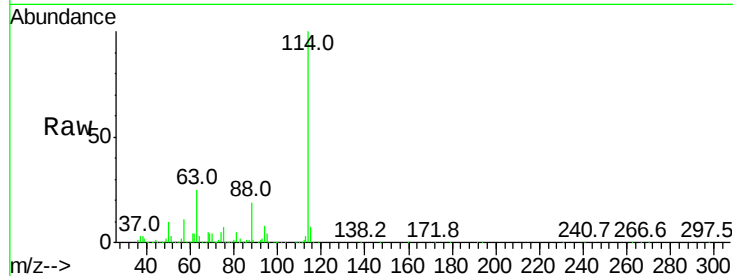
Tgt Ion: 63 Resp: 770090

Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

62 17.0 55.4 83.2#



#43

Methyl Methacrylate

Concen: 0.105 ppbv

RT: 8.16 min Scan# 1624

Delta R.T. 0.01 min

Lab File: VL032827.D

Acq: 28 Nov 2018 12:10

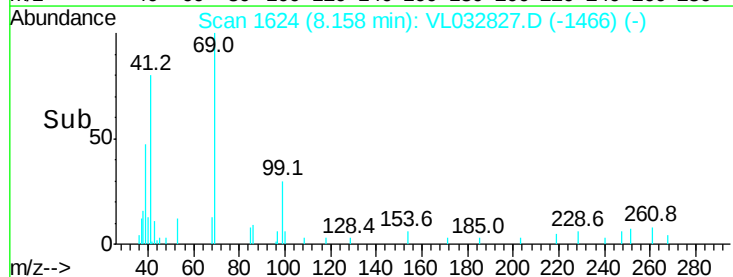
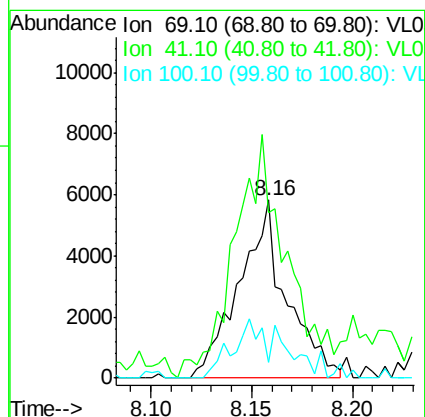
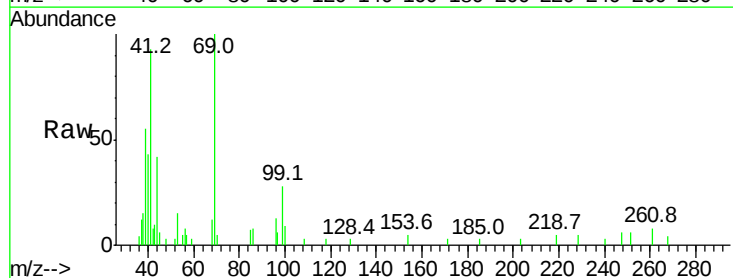
Tgt Ion: 69 Resp: 9561

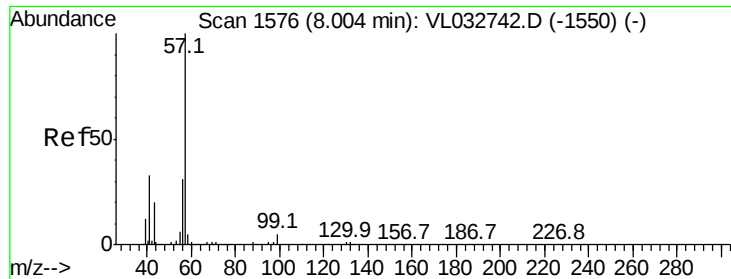
Ion Ratio Lower Upper

69 100

41 179.2 115.0 172.4#

100 36.0 25.4 38.0





#44

2,2,4-Trimethylpentane

Concen: 0.055 ppbv

RT: 8.01 min Scan# 1577

Delta R.T. 0.00 min

Lab File: VL032827.D

Acq: 28 Nov 2018 12:10

Instrument :

MSVOA_L

ClientSampleId :

EP2-OA-01DUP

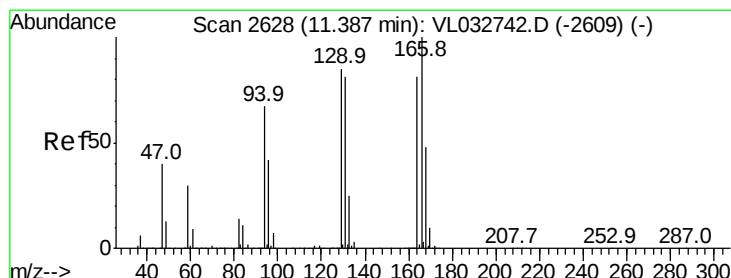
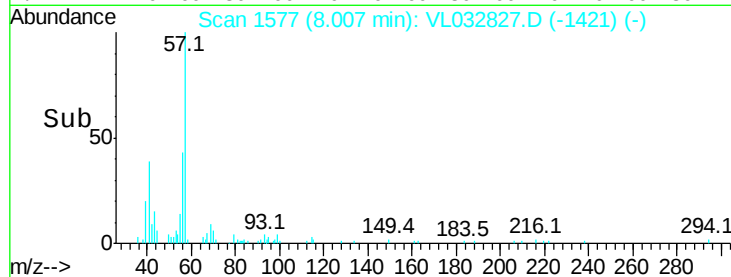
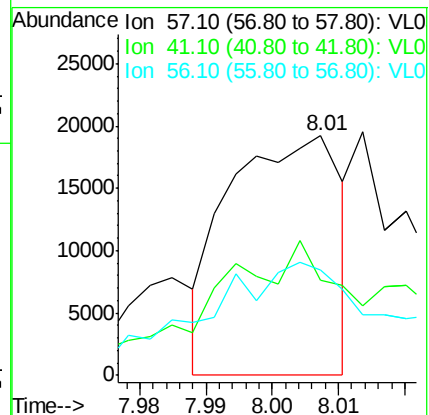
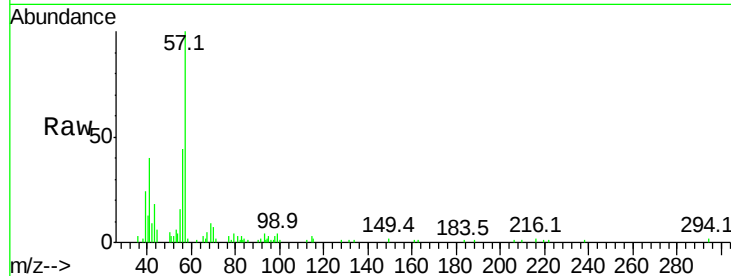
Tgt Ion: 57 Resp: 22559

Ion Ratio Lower Upper

57 100

41 111.4 26.6 39.8#

56 95.8 24.8 37.2#



#52

Tetrachloroethene

Concen: 0.039 ppbv

RT: 11.39 min Scan# 2630

Delta R.T. 0.01 min

Lab File: VL032827.D

Acq: 28 Nov 2018 12:10

Tgt Ion: 164 Resp: 3304

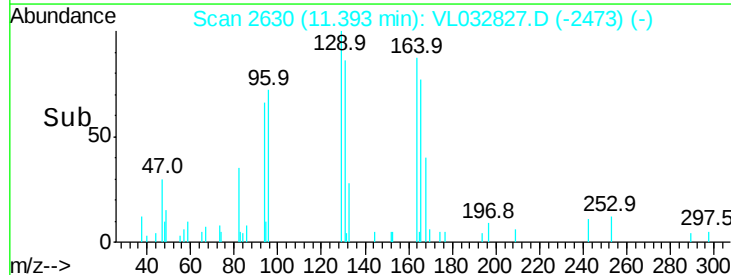
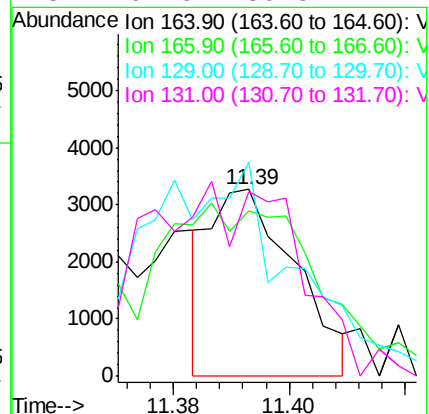
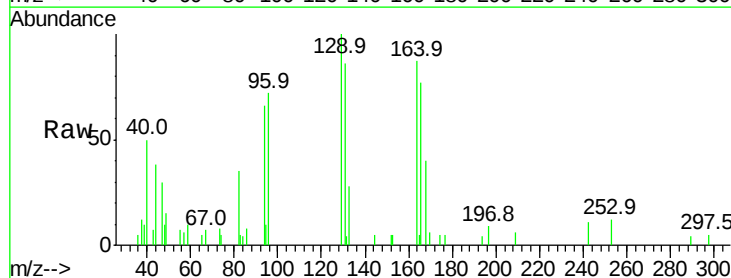
Ion Ratio Lower Upper

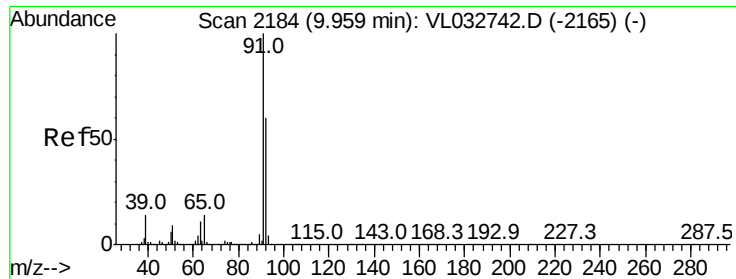
164 100

166 65.1 99.3 148.9#

129 99.1 83.9 125.9

131 94.6 80.8 121.2





#53

Toluene

Concen: 0.801 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL032827.D

Acq: 28 Nov 2018 12:10

Instrument :

MSVOA_L

ClientSampleId :

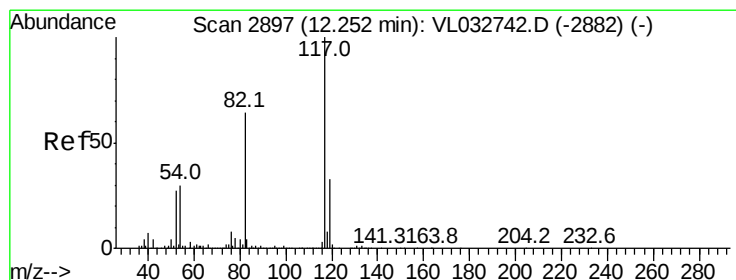
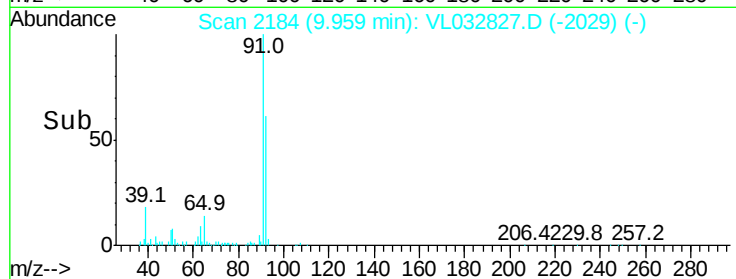
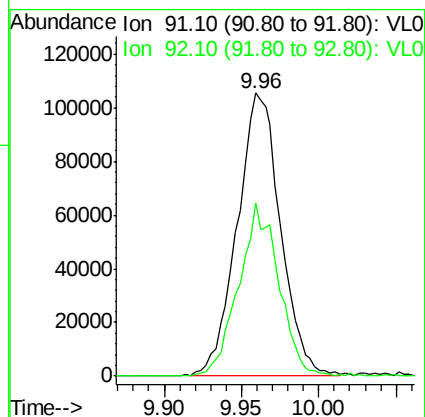
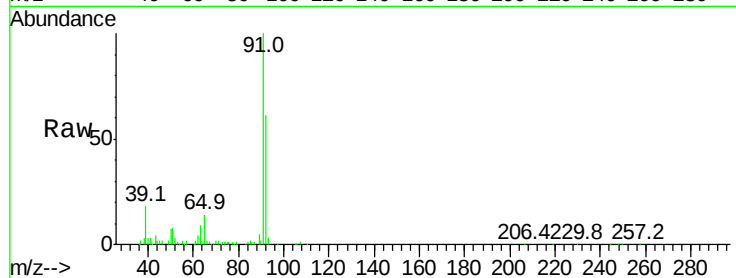
EP2-OA-01DUP

Tgt Ion: 91 Resp: 204580

Ion Ratio Lower Upper

91 100

92 57.1 47.9 71.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2898

Delta R.T. 0.00 min

Lab File: VL032827.D

Acq: 28 Nov 2018 12:10

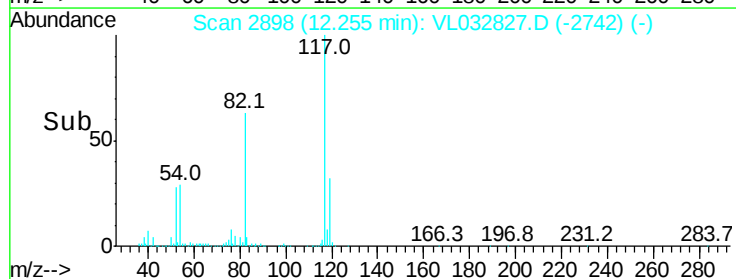
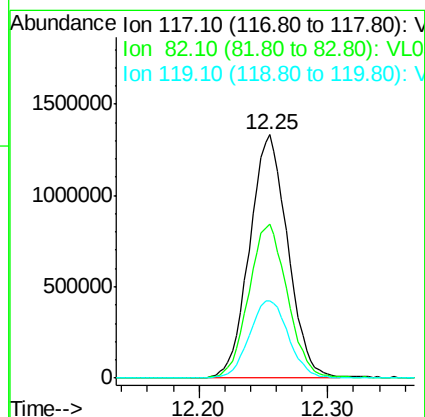
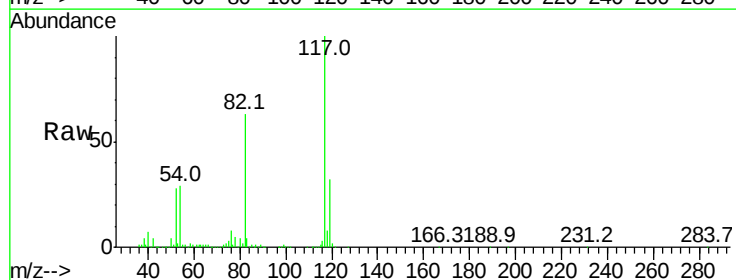
Tgt Ion: 117 Resp: 2741344

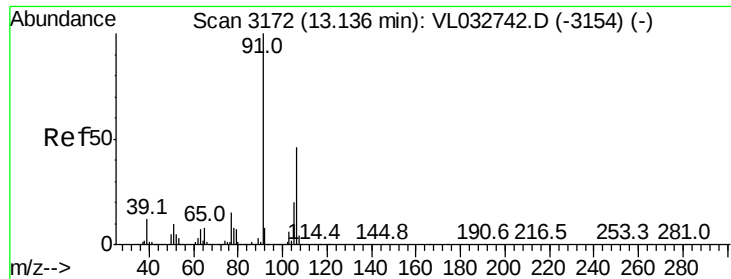
Ion Ratio Lower Upper

117 100

82 64.7 51.0 76.6

119 32.9 28.0 42.0





#59

m/p-Xylene

Concen: 0.038 ppbv

RT: 13.14 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VL032827.D

Acq: 28 Nov 2018 12:10

Instrument :

MSVOA_L

ClientSampleId :

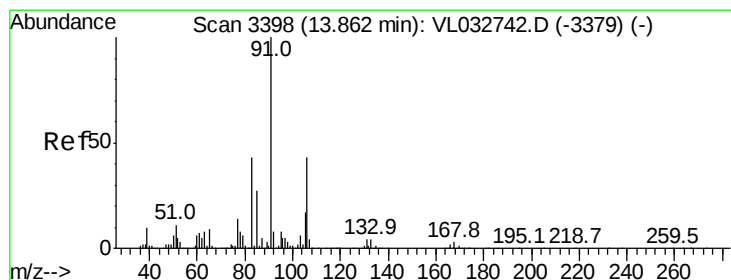
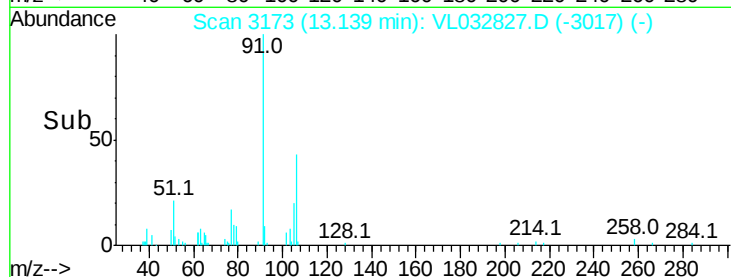
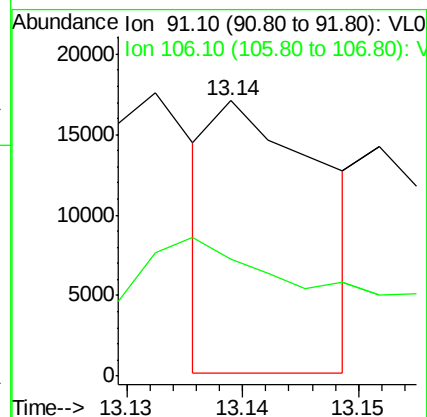
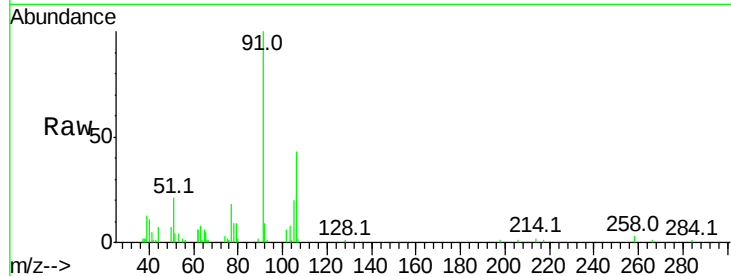
EP2-OA-01DUP

Tgt Ion: 91 Resp: 11080

Ion Ratio Lower Upper

91 100

106 0.0 36.1 54.1#



#60

o-Xylene

Concen: 0.063 ppbv

RT: 13.87 min Scan# 3399

Delta R.T. 0.00 min

Lab File: VL032827.D

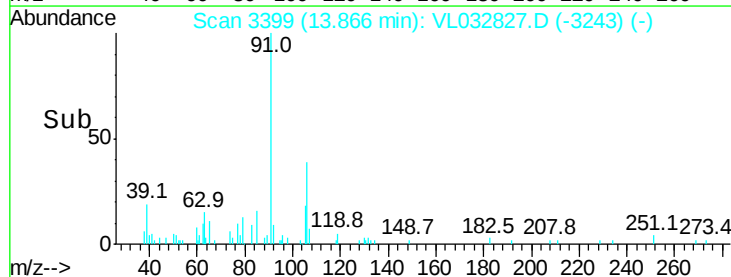
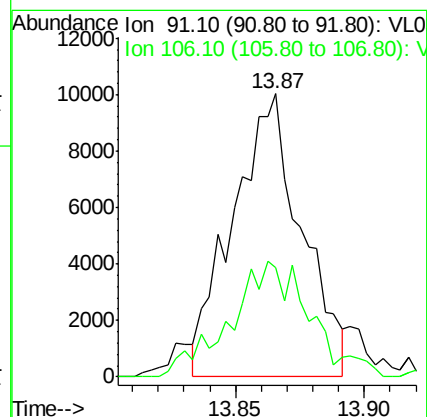
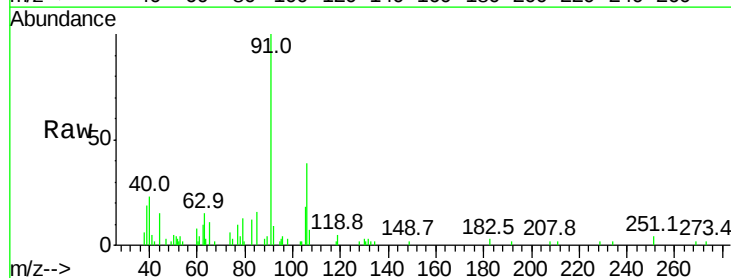
Acq: 28 Nov 2018 12:10

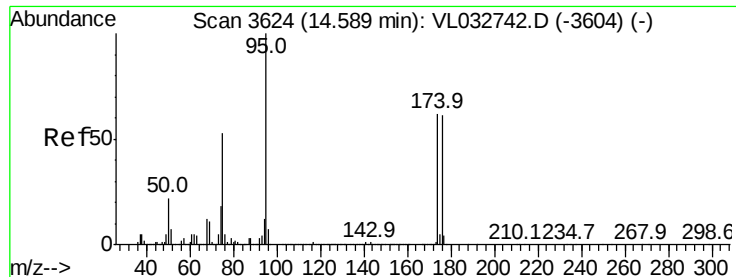
Tgt Ion: 91 Resp: 18547

Ion Ratio Lower Upper

91 100

106 48.1 21.9 65.7





#68

1-Bromo-4-Fluorobenzene

Concen: 9.917 ppbv

RT: 14.59 min Scan# 3625

Delta R.T. 0.00 min

Lab File: VL032827.D

Acq: 28 Nov 2018 12:10

Instrument :

MSVOA_L

ClientSampleId :

EP2-OA-01DUP

Tgt Ion: 95 Resp: 2033333

Ion Ratio Lower Upper

95 100

174 66.1 50.7 76.1

175 4.8 3.8 5.6

