

Data File : VL032833.D
Acq On : 29 Nov 2018 14:04
Operator : SY/AP
Sample : J6046-06DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-06DL

Quant Time: Nov 30 06:23:16 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	1406892	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3530627	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3323742	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2499025	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

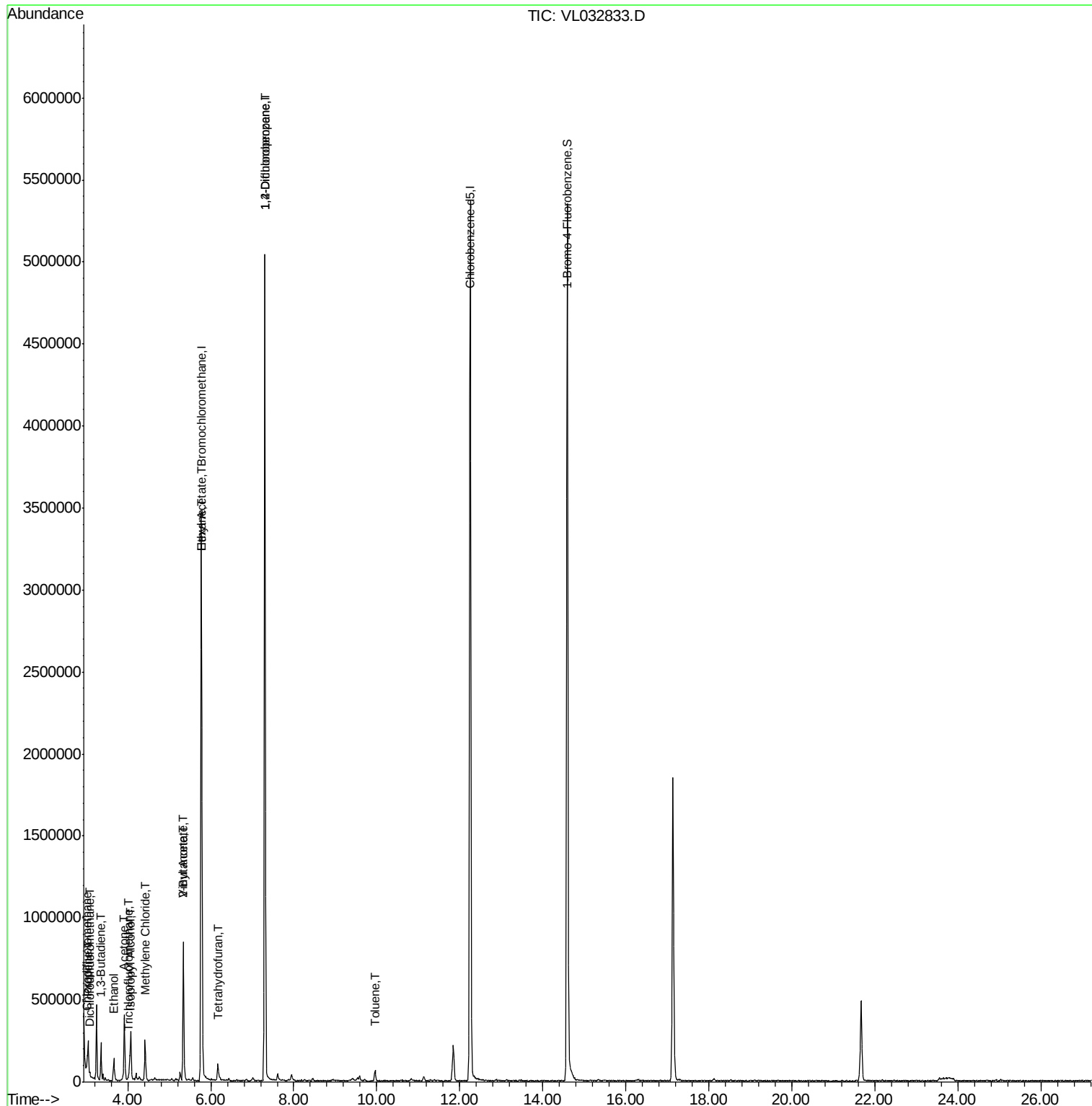
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	15623	0.077	ppbv	97
3) Chlorodifluoromethane	3.02	51	87481	0.784	ppbv	99
9) Propene	3.05	41	74909	1.678	ppbv	96
11) Trichlorofluoromethane	4.01	101	9946	0.052	ppbv	92
13) Ethanol	3.66	45	145247	9.935	ppbv	97
15) Acetone	3.91	43	373886	2.910	ppbv #	75
16) 1,3-Butadiene	3.35	39	55660	1.119	ppbv #	14
19) Isopropyl Alcohol	4.05	45	167058	1.952	ppbv #	95
20) Methylene Chloride	4.42	84	77683	1.168	ppbv	97
23) Vinyl Acetate	5.34	43	912045	3.894	ppbv #	87
25) Ethyl Acetate	5.79	43	181168	0.605	ppbv #	78
26) Hexane	5.79	57	253226	1.900	ppbv #	43
34) 2-Butanone	5.34	43	912045	4.981	ppbv	98
39) 1,2-Dichloropropane	7.30	63	874313	8.162	ppbv #	23
41) Tetrahydrofuran	6.17	42	43916	0.418	ppbv	93
53) Toluene	9.95	91	25526	0.087	ppbv #	40

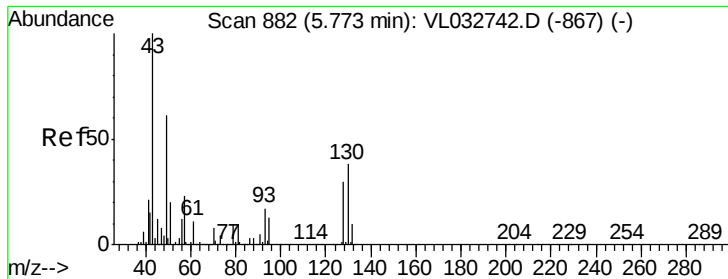
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

EP2-SV-06DL

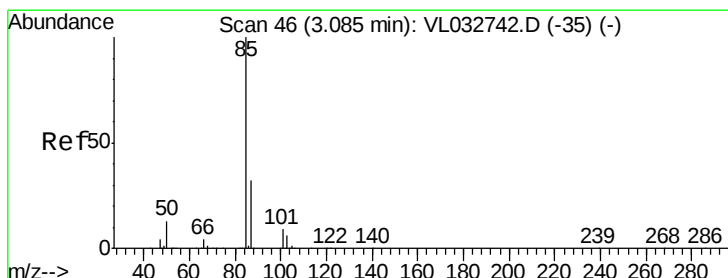
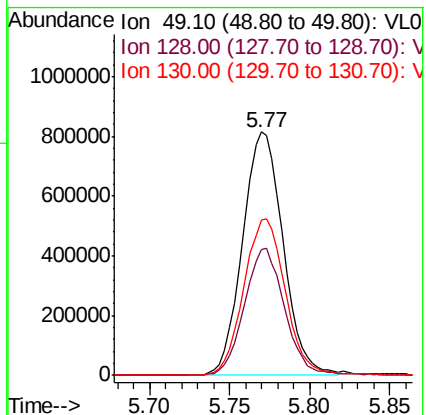
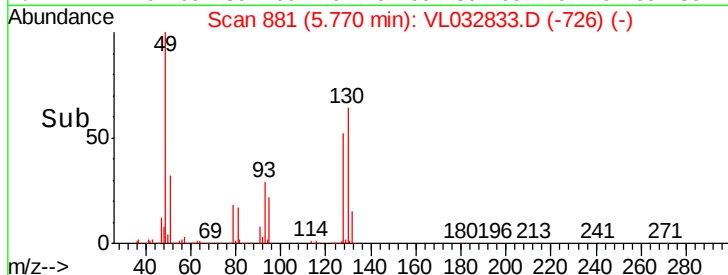
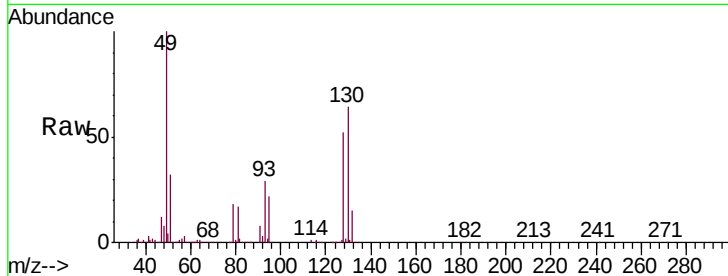
Tgt Ion: 49 Resp: 1406892

Ion Ratio Lower Upper

49 100

128 52.8 24.9 74.6

130 67.0 31.4 94.2



#2

Dichlorodifluoromethane

Concen: 0.077 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032833.D

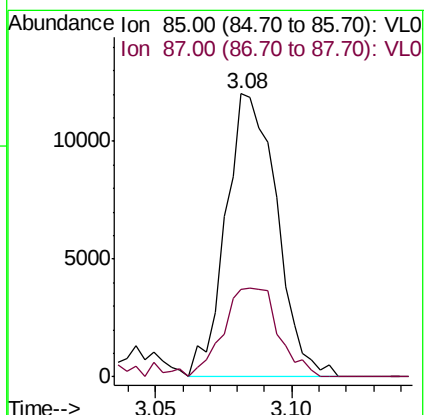
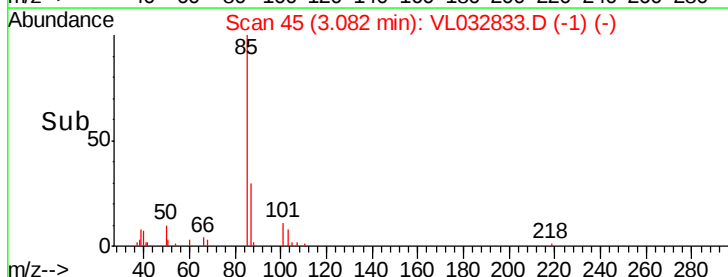
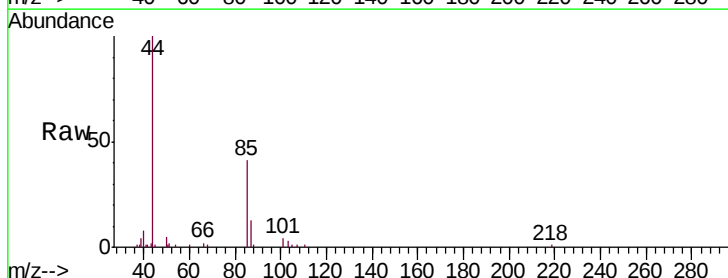
Acq: 29 Nov 2018 14:04

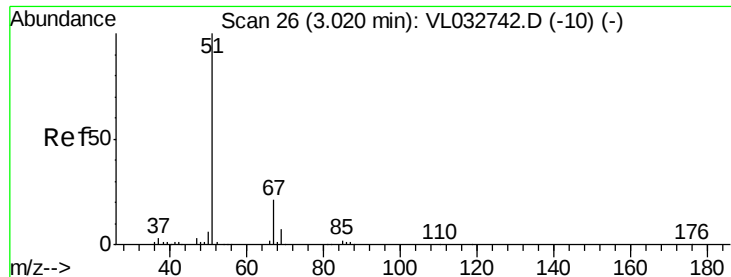
Tgt Ion: 85 Resp: 15623

Ion Ratio Lower Upper

85 100

87 31.1 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.784 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.00 min

Lab File: VL032833.D

Acq: 29 Nov 2018 14:04

Instrument :

MSVOA_L

ClientSampleId :

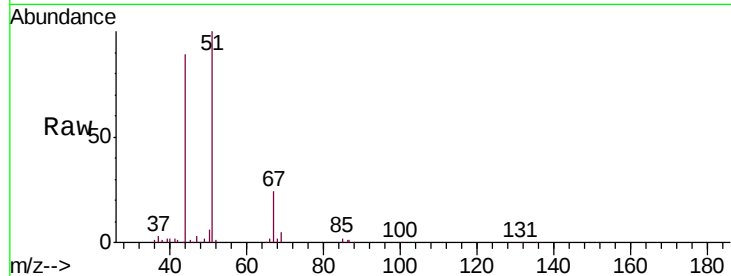
EP2-SV-06DL

Tgt Ion: 51 Resp: 87481

Ion Ratio Lower Upper

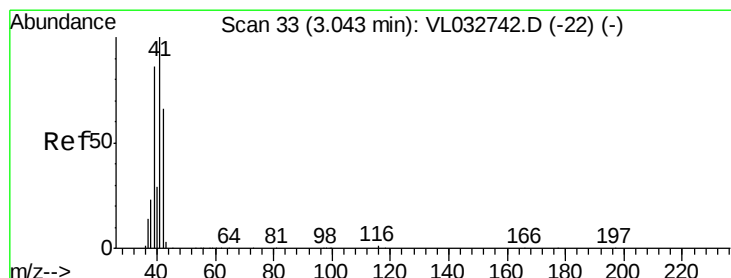
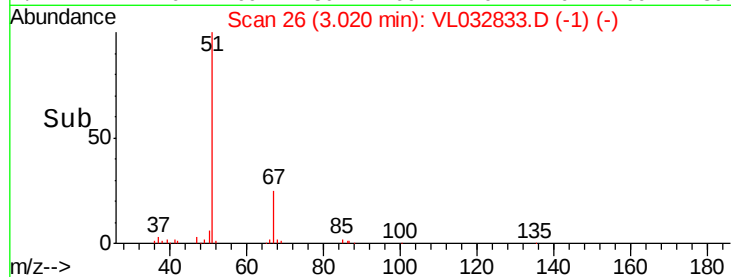
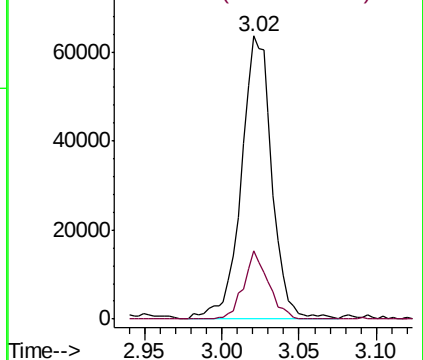
51 100

67 19.5 16.1 24.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 1.678 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032833.D

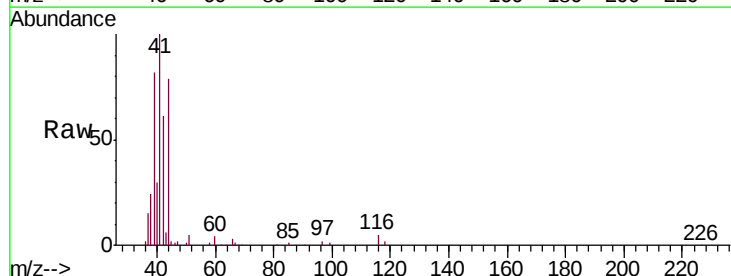
Acq: 29 Nov 2018 14:04

Tgt Ion: 41 Resp: 74909

Ion Ratio Lower Upper

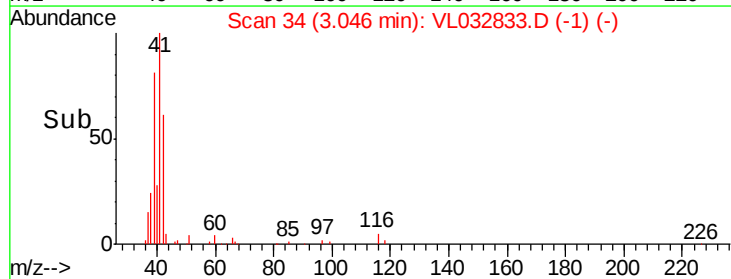
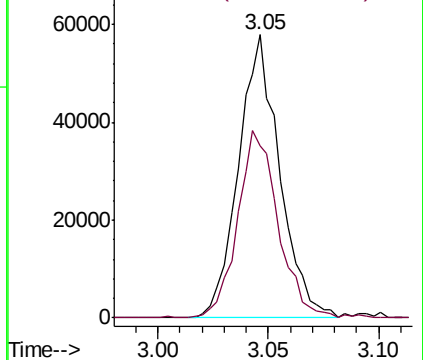
41 100

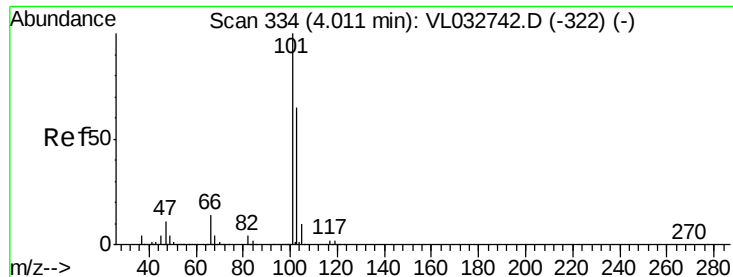
42 65.7 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

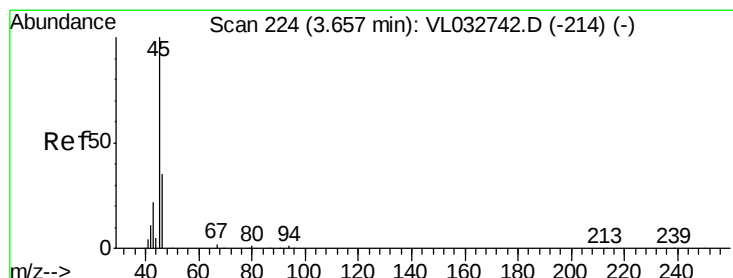
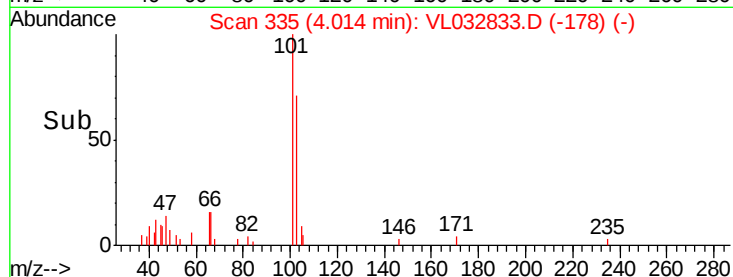
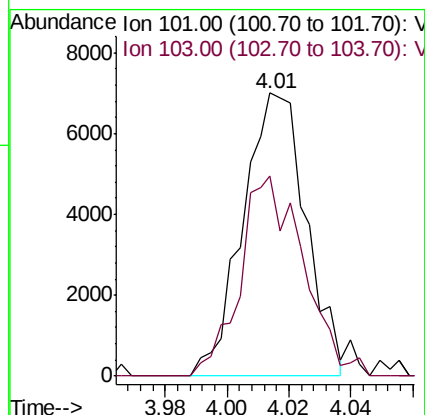
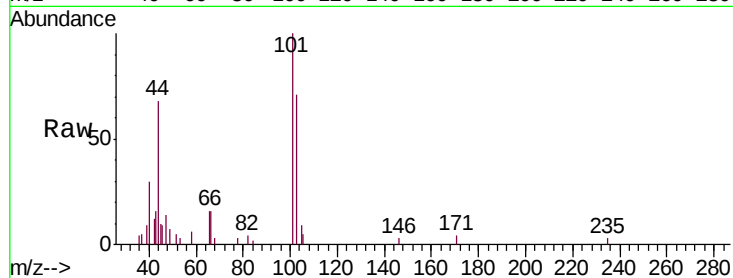




#11
 Trichlorofluoromethane
 Concen: 0.052 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. 0.00 min
 Lab File: VL032833.D
 Acq: 29 Nov 2018 14:04

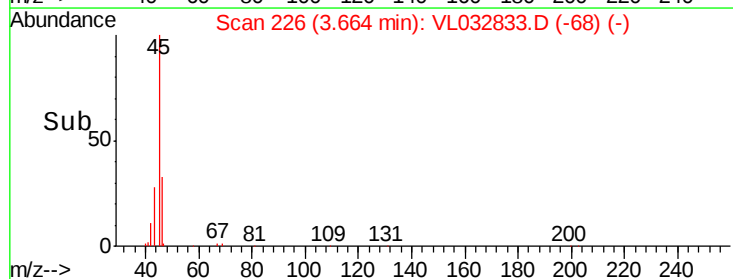
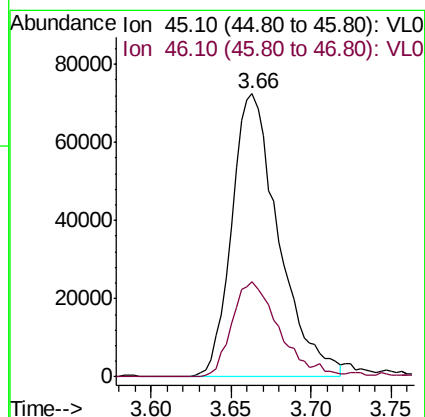
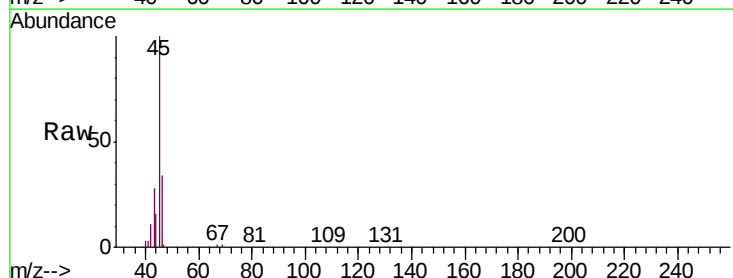
Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-06DL

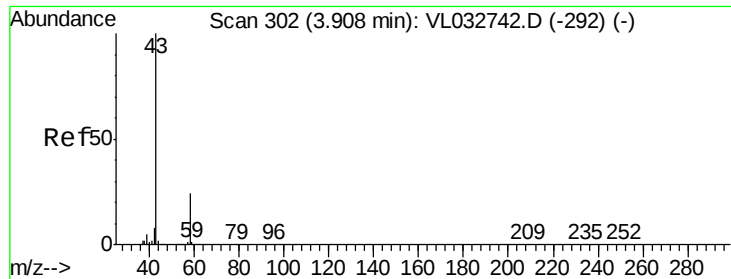
Tgt Ion: 101 Resp: 9946
 Ion Ratio Lower Upper
 101 100
 103 70.6 51.6 77.4



#13
 Ethanol
 Concen: 9.935 ppbv
 RT: 3.66 min Scan# 226
 Delta R.T. 0.01 min
 Lab File: VL032833.D
 Acq: 29 Nov 2018 14:04

Tgt Ion: 45 Resp: 145247
 Ion Ratio Lower Upper
 45 100
 46 34.4 14.5 57.9





#15

Acetone

Concen: 2.910 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL032833.D

Acq: 29 Nov 2018 14:04

Instrument :

MSVOA_L

ClientSampleId :

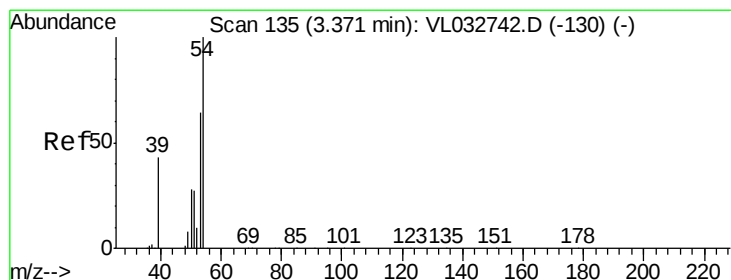
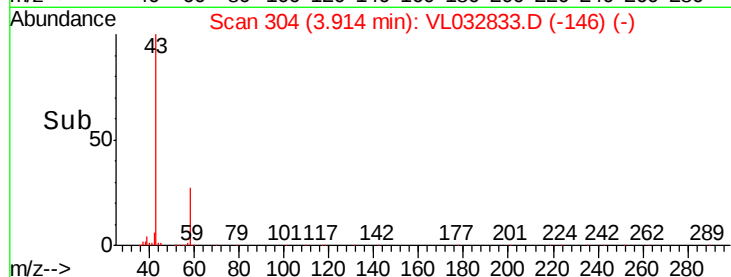
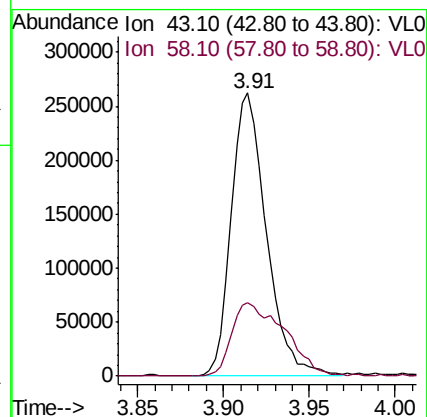
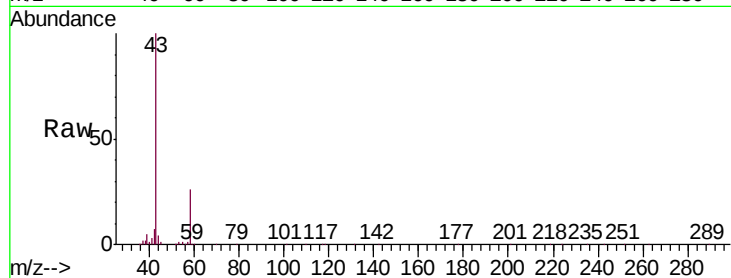
EP2-SV-06DL

Tgt Ion: 43 Resp: 373886

Ion Ratio Lower Upper

43 100

58 39.2 21.1 31.7#



#16

1,3-Butadiene

Concen: 1.119 ppbv

RT: 3.35 min Scan# 130

Delta R.T. -0.02 min

Lab File: VL032833.D

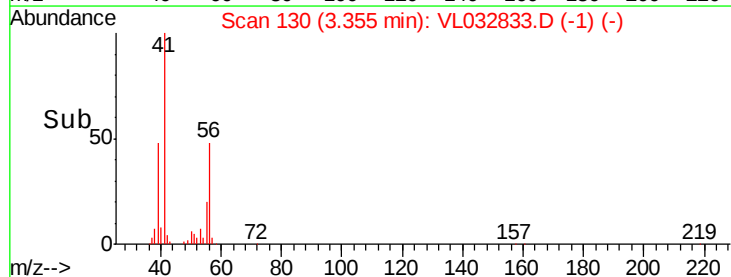
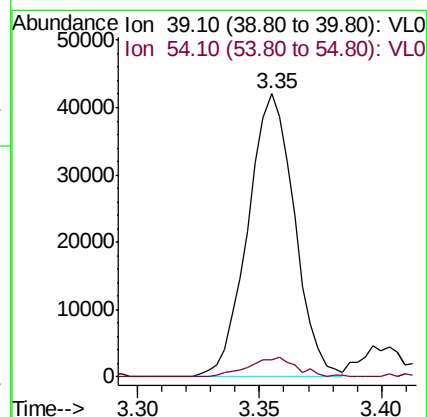
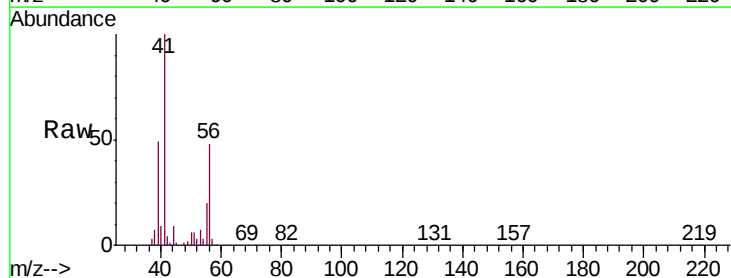
Acq: 29 Nov 2018 14:04

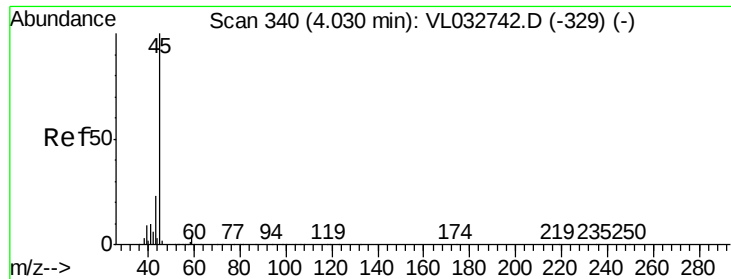
Tgt Ion: 39 Resp: 55660

Ion Ratio Lower Upper

39 100

54 7.3 68.9 103.3#



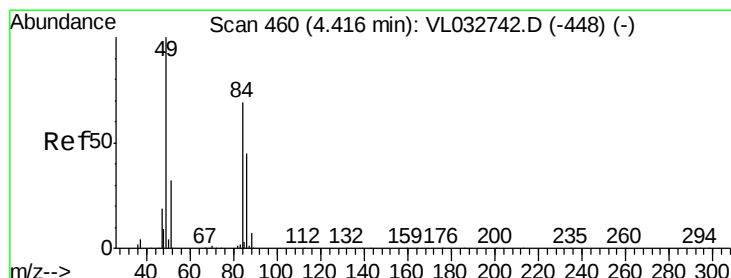
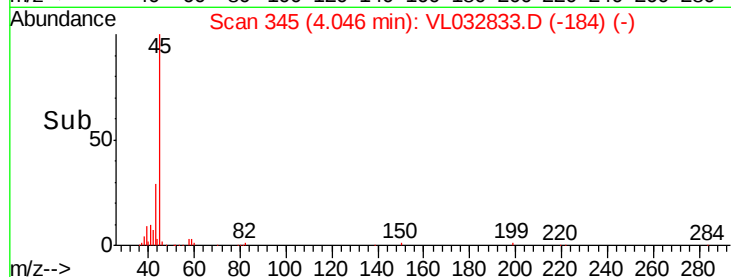
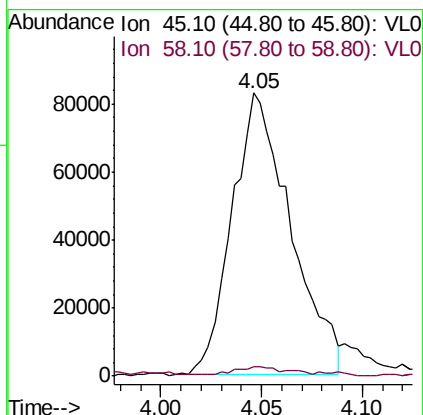
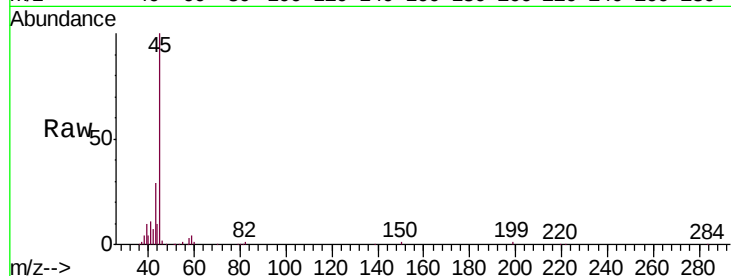


#19

Isopropyl Alcohol
 Concen: 1.952 ppbv
 RT: 4.05 min Scan# 345
 Delta R.T. 0.02 min
 Lab File: VL032833.D
 Acq: 29 Nov 2018 14:04

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-06DL

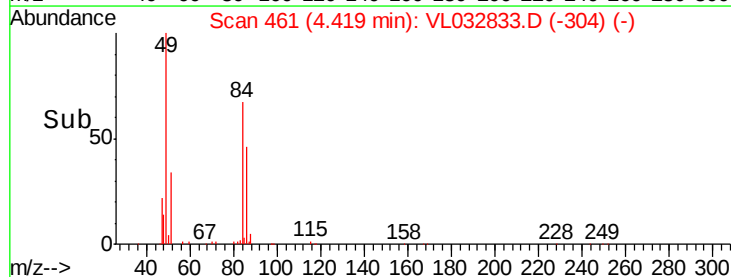
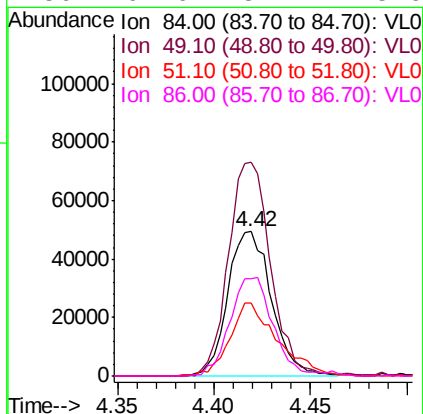
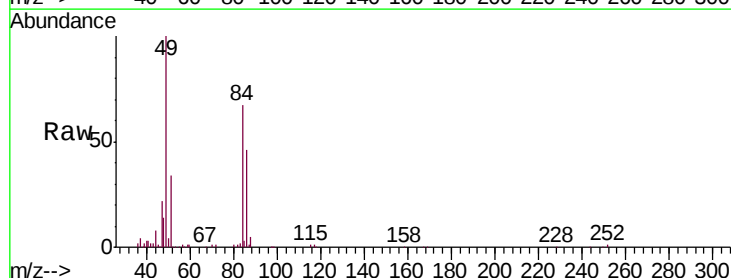
Tgt Ion: 45 Resp: 167058
 Ion Ratio Lower Upper
 45 100
 58 3.6 1.4 2.0#

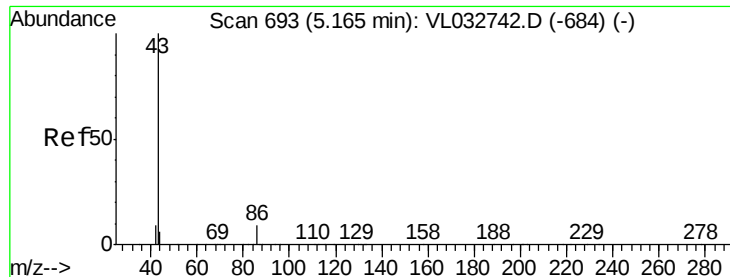


#20

Methylene Chloride
 Concen: 1.168 ppbv
 RT: 4.42 min Scan# 461
 Delta R.T. 0.00 min
 Lab File: VL032833.D
 Acq: 29 Nov 2018 14:04

Tgt Ion: 84 Resp: 77683
 Ion Ratio Lower Upper
 84 100
 49 146.9 115.8 173.6
 51 49.6 36.9 55.3
 86 67.6 52.4 78.6





#23

Vinyl Acetate

Concen: 3.894 ppbv

RT: 5.34 min Scan# 747

Delta R.T. 0.17 min

Lab File: VL032833.D

Acq: 29 Nov 2018 14:04

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-06DL

Tgt Ion: 43 Resp: 912045

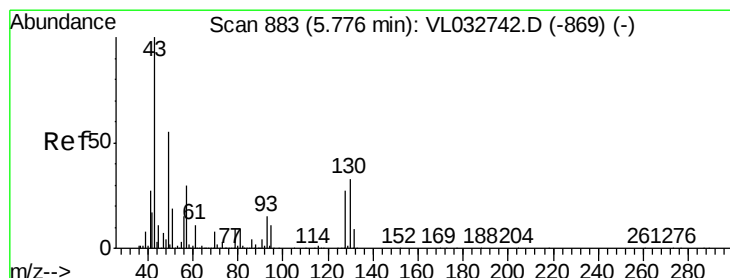
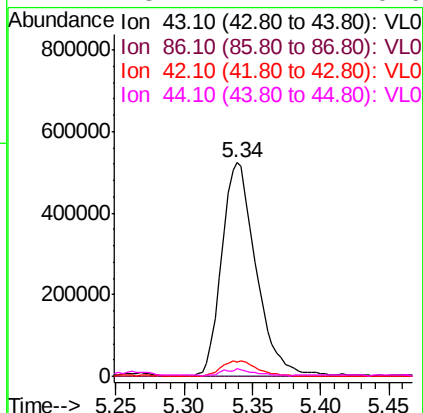
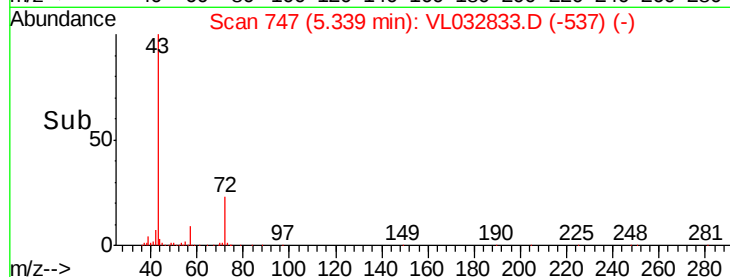
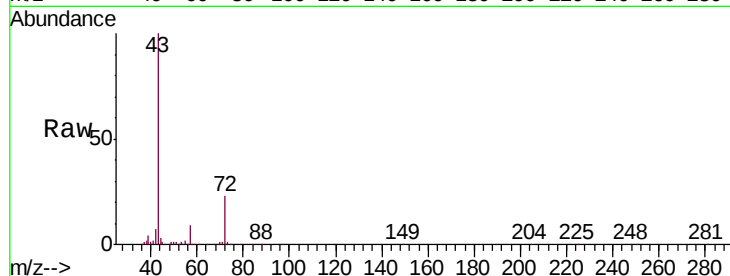
Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.4#

42 6.8 7.8 11.6#

44 3.1 4.4 6.6#



#25

Ethyl Acetate

Concen: 0.605 ppbv

RT: 5.79 min Scan# 887

Delta R.T. 0.01 min

Lab File: VL032833.D

Acq: 29 Nov 2018 14:04

Tgt Ion: 43 Resp: 181168

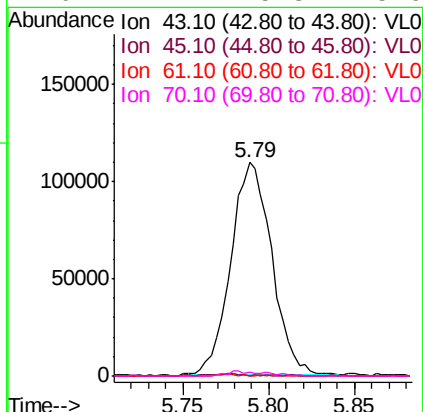
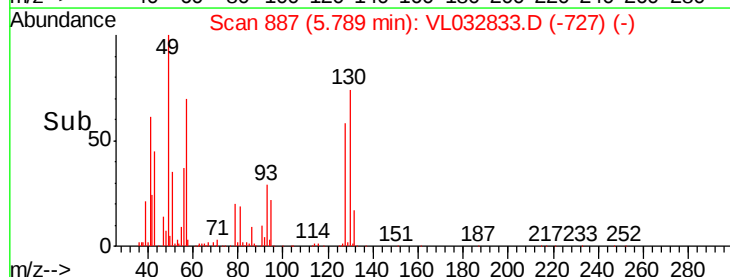
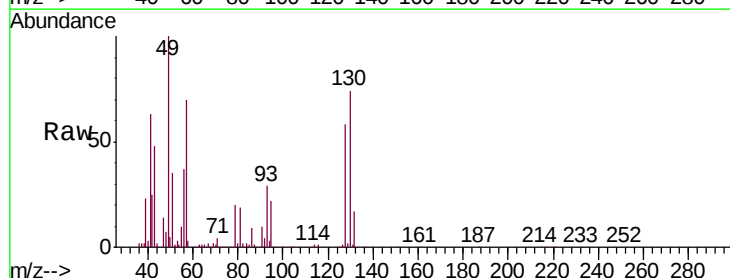
Ion Ratio Lower Upper

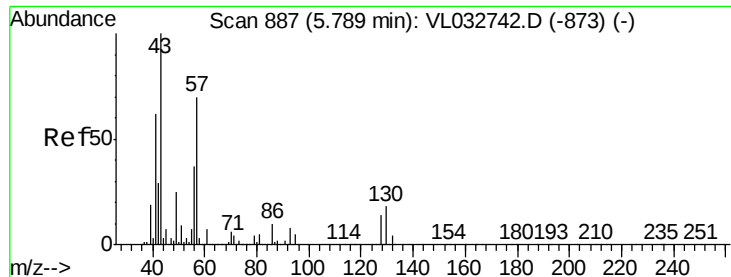
43 100

45 0.9 7.9 11.9#

61 0.6 7.8 11.6#

70 2.2 5.8 8.6#

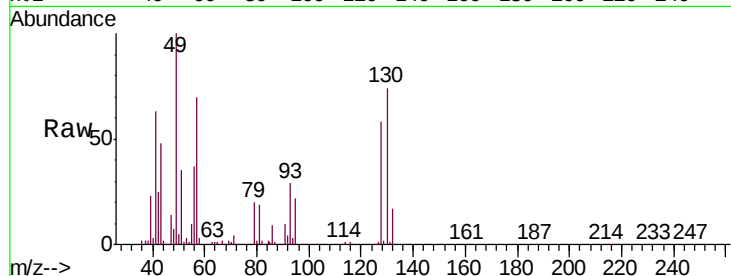




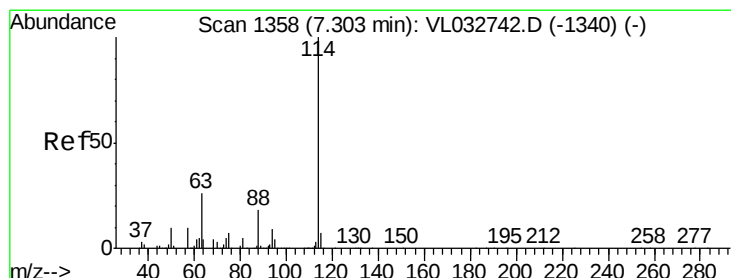
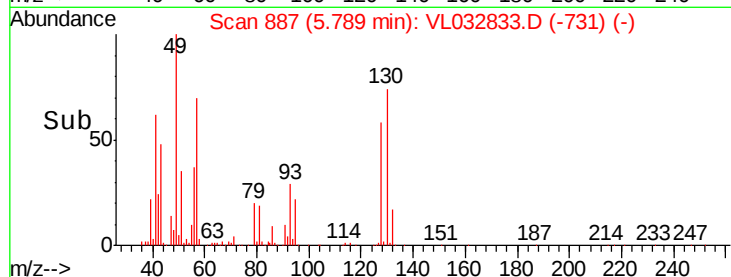
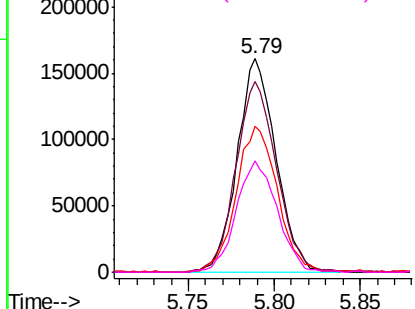
#26
Hexane
Concen: 1.900 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.00 min
Lab File: VL032833.D
Acq: 29 Nov 2018 14:04

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-06DL

Tgt Ion: 57 Resp: 253226
Ion Ratio Lower Upper
57 100
41 94.2 70.3 105.5
43 72.8 174.0 261.0#
56 55.5 42.3 63.5

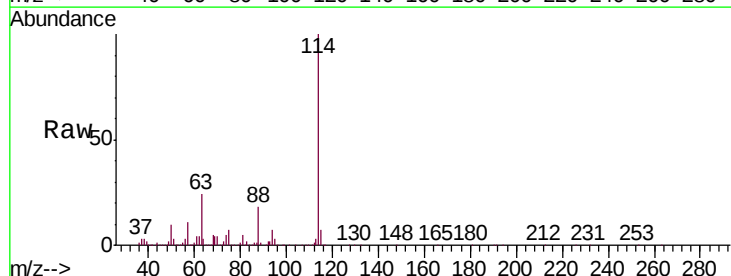


Abundance Ion 57.10 (56.80 to 57.80): VL0
250000 Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

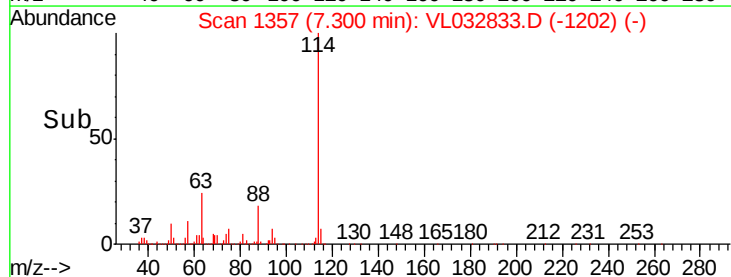
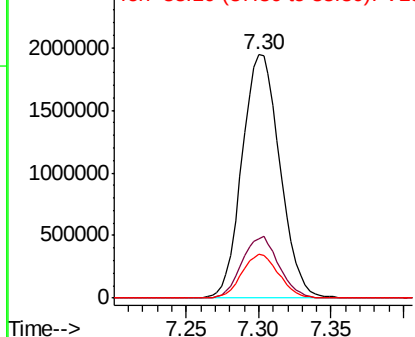


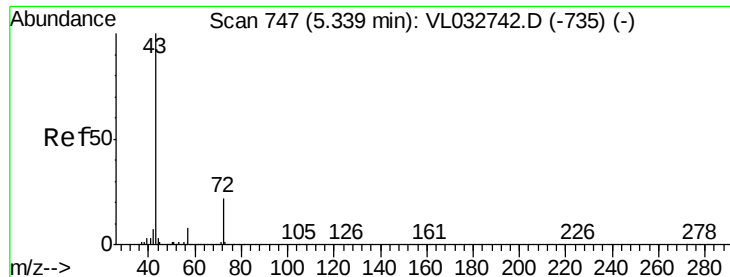
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1357
Delta R.T. -0.00 min
Lab File: VL032833.D
Acq: 29 Nov 2018 14:04

Tgt Ion: 114 Resp: 3530627
Ion Ratio Lower Upper
114 100
63 24.9 20.9 31.3
88 17.7 14.4 21.6



Abundance Ion 114.10 (113.80 to 114.80): V
2500000 Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0

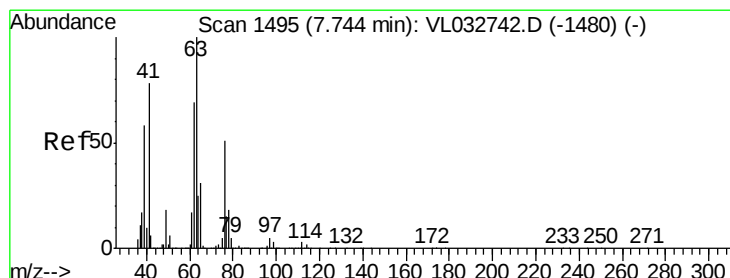
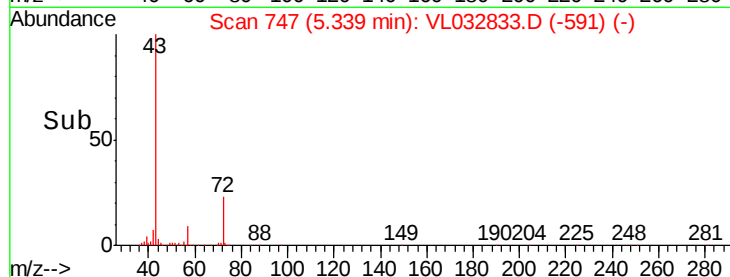
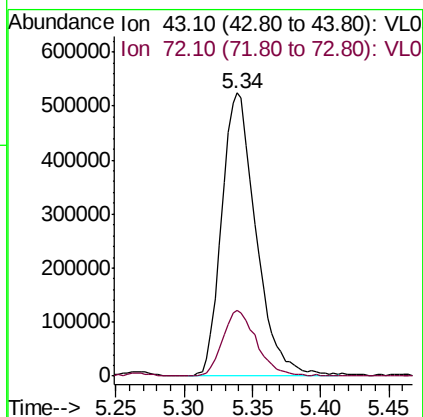
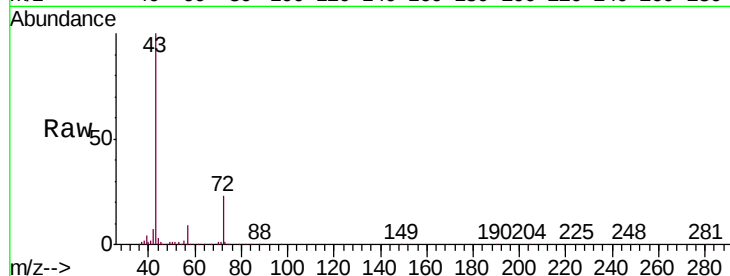




#34
2-Butanone
Concen: 4.981 ppbv
RT: 5.34 min Scan# 747
Delta R.T. 0.00 min
Lab File: VL032833.D
Acq: 29 Nov 2018 14:04

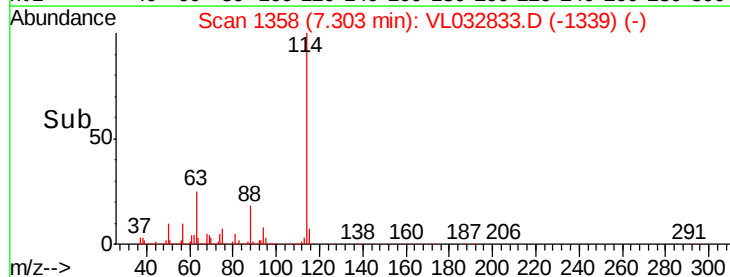
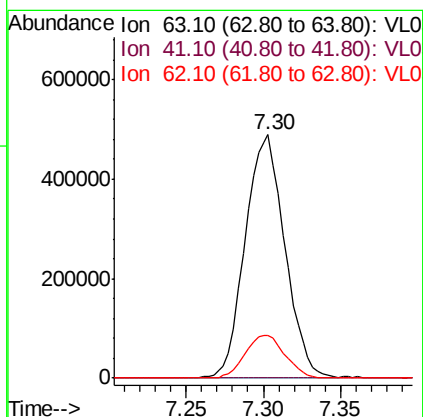
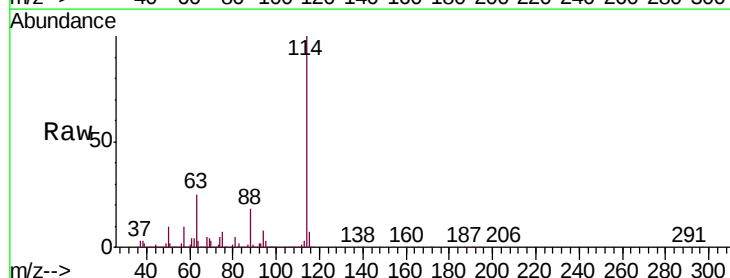
Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-06DL

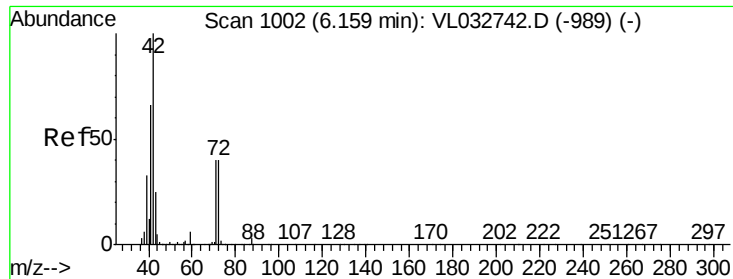
Tgt Ion: 43 Resp: 912045
Ion Ratio Lower Upper
43 100
72 23.7 18.4 27.6



#39
1,2-Dichloropropane
Concen: 8.162 ppbv
RT: 7.30 min Scan# 1358
Delta R.T. -0.44 min
Lab File: VL032833.D
Acq: 29 Nov 2018 14:04

Tgt Ion: 63 Resp: 874313
Ion Ratio Lower Upper
63 100
41 0.3 62.0 93.0#
62 17.3 55.4 83.2#





#41

Tetrahydrofuran

Concen: 0.418 ppbv

RT: 6.17 min Scan# 1006

Delta R.T. 0.01 min

Lab File: VL032833.D

Acq: 29 Nov 2018 14:04

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-06DL

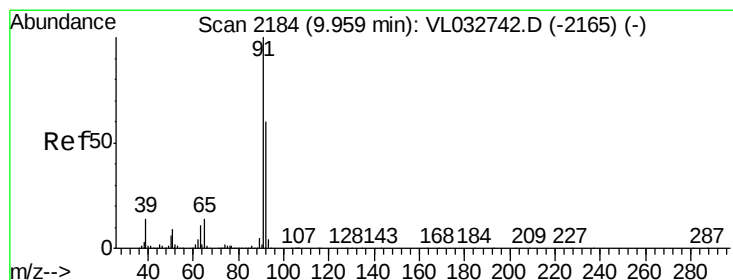
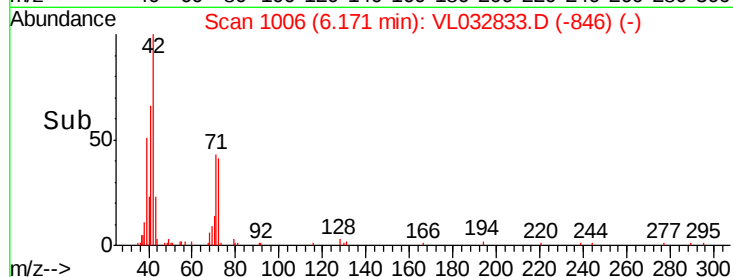
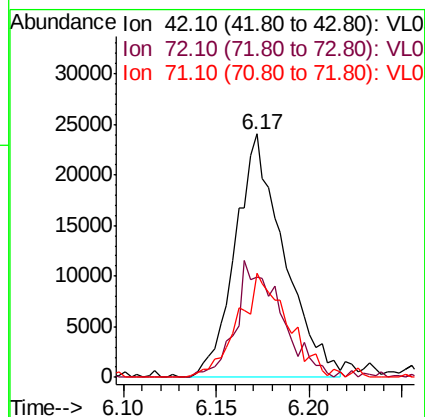
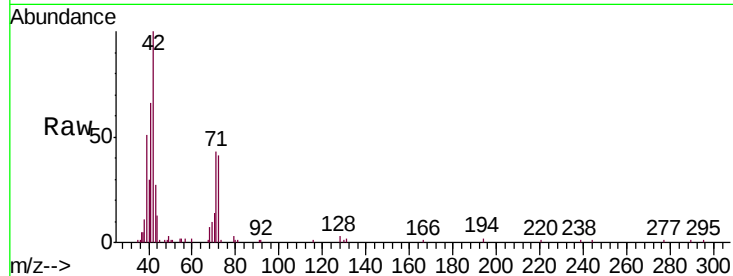
Tgt Ion: 42 Resp: 43916

Ion Ratio Lower Upper

42 100

72 45.0 32.4 48.6

71 44.1 31.6 47.4



#53

Toluene

Concen: 0.087 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL032833.D

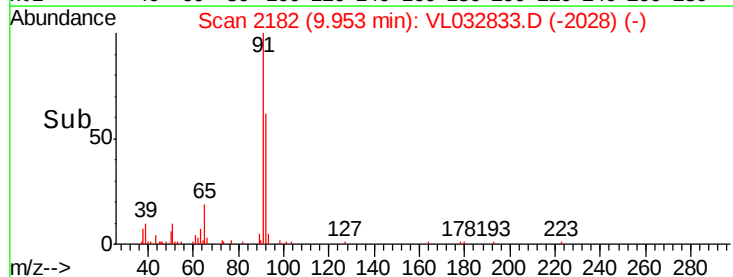
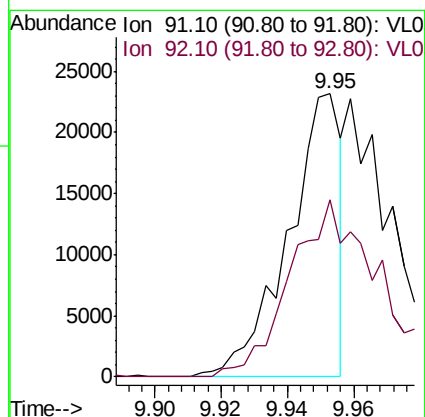
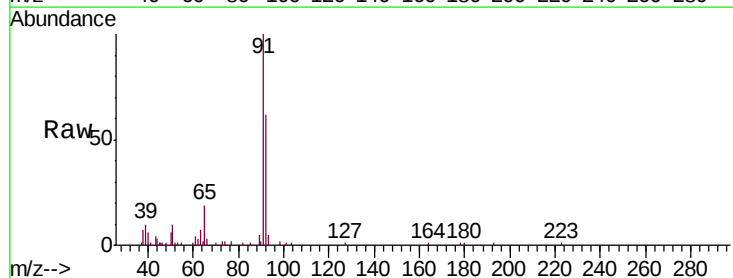
Acq: 29 Nov 2018 14:04

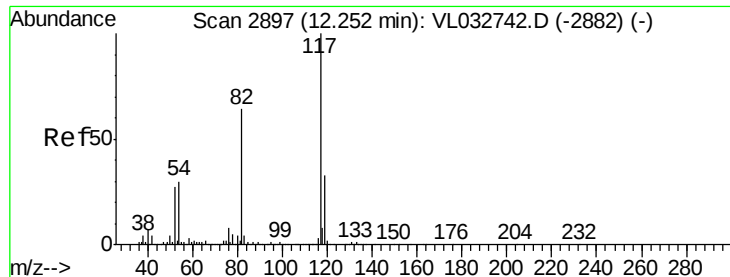
Tgt Ion: 91 Resp: 25526

Ion Ratio Lower Upper

91 100

92 104.9 47.9 71.9#

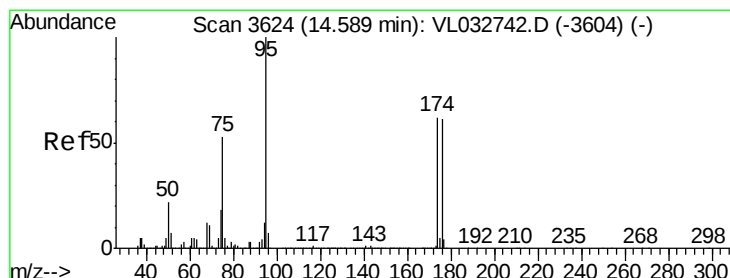
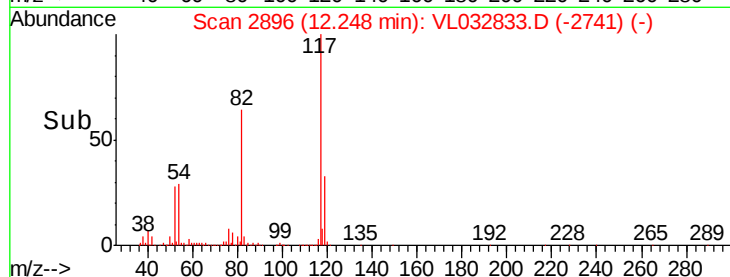
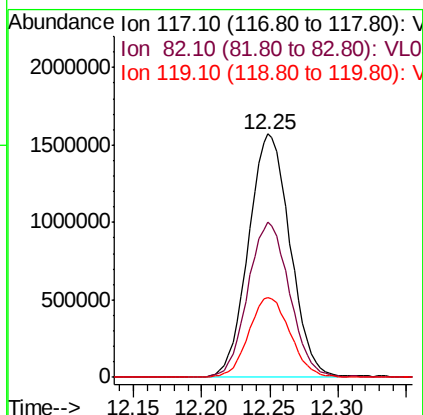
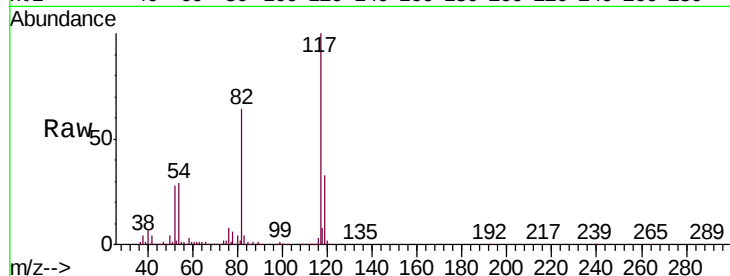




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL032833.D
Acq: 29 Nov 2018 14:04

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-06DL

Tgt Ion: 117 Resp: 3323742
Ion Ratio Lower Upper
117 100
82 63.9 51.0 76.6
119 32.9 28.0 42.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.052 ppbv
RT: 14.58 min Scan# 3622
Delta R.T. -0.01 min
Lab File: VL032833.D
Acq: 29 Nov 2018 14:04

Tgt Ion: 95 Resp: 2499025
Ion Ratio Lower Upper
95 100
174 66.7 50.7 76.1
175 4.9 3.8 5.6

