

Data File : VL032821.D
Acq On : 28 Nov 2018 00:05
Operator : SY/AP
Sample : J6046-03DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-05DL

Quant Time: Nov 28 03:18:56 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	1220319	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3149059	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2904926	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.59 95 2122896 9.77 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 97.70%

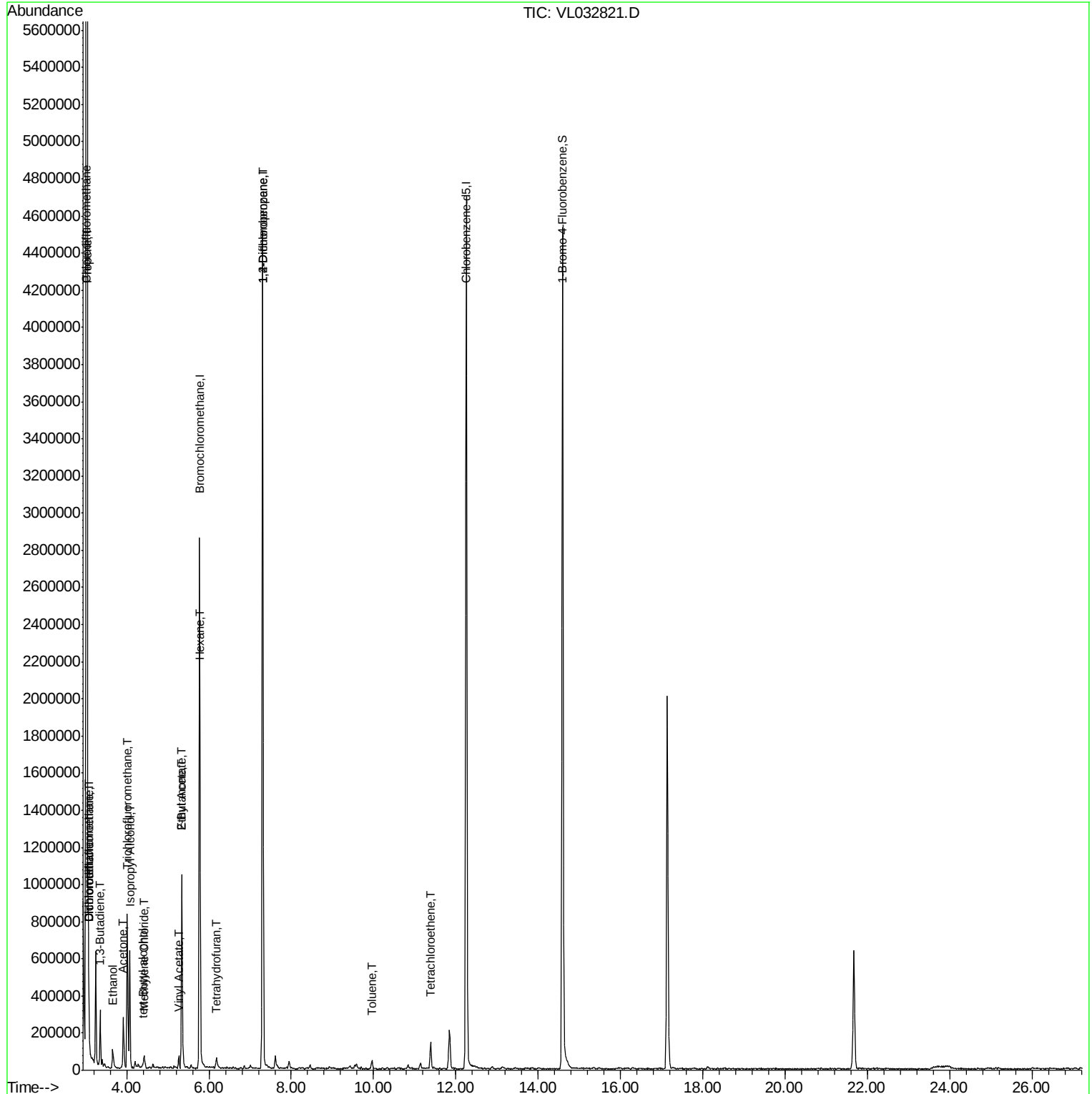
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	106227	0.606	ppbv	99
3) Chlorodifluoromethane	3.02	51	13695547	141.560	ppbv #	87
4) Chloromethane	3.08	50	18808	0.351	ppbv #	46
8) Dichlorotetrafluoroethane	3.08	85	106227	0.768	ppbv #	16
9) Propene	3.05	41	85894	2.219	ppbv	96
11) Trichlorofluoromethane	4.01	101	544382	3.293	ppbv	99
13) Ethanol	3.66	45	108806	8.580	ppbv	95
15) Acetone	3.92	43	254050	2.280	ppbv #	63
16) 1,3-Butadiene	3.36	39	71257	1.651	ppbv #	14
17) tert-Butyl alcohol	4.40	59	4728	0.135	ppbv #	45
19) Isopropyl Alcohol	4.07	45	89743	1.209	ppbv #	95
20) Methylene Chloride	4.42	84	17257	0.299	ppbv #	82
23) Vinyl Acetate	5.26	43	11871	0.058	ppbv #	31
25) Ethyl Acetate	5.34	43	1140487	4.391	ppbv #	76
26) Hexane	5.79	57	8916	0.077	ppbv #	1
34) 2-Butanone	5.34	43	1140487	6.983	ppbv	99
39) 1,2-Dichloropropane	7.30	63	773095	8.092	ppbv #	23
41) Tetrahydrofuran	6.18	42	16193	0.173	ppbv #	55
52) Tetrachloroethene	11.39	164	33999	0.390	ppbv	92
53) Toluene	9.96	91	20215	0.077	ppbv #	61

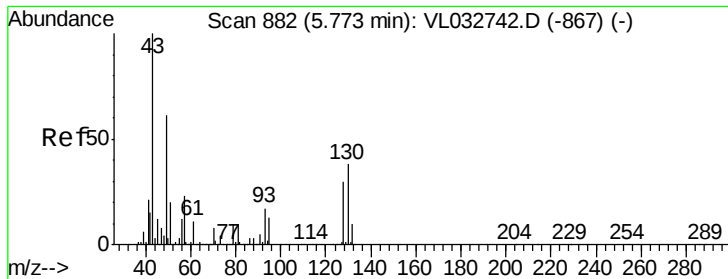
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

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EP2-SV-05DL

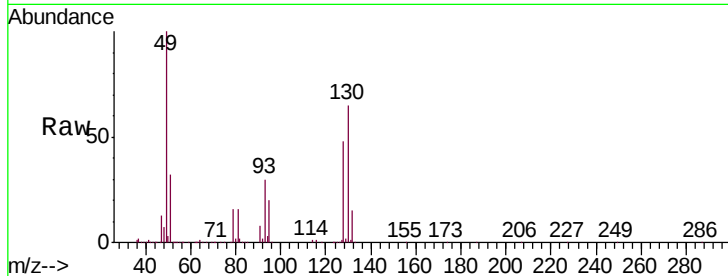
Tgt Ion: 49 Resp: 1220319

Ion Ratio Lower Upper

49 100

128 52.8 24.9 74.6

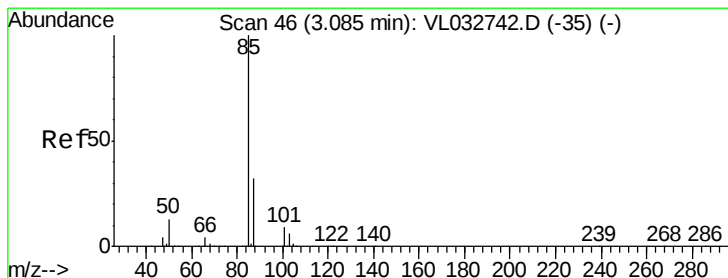
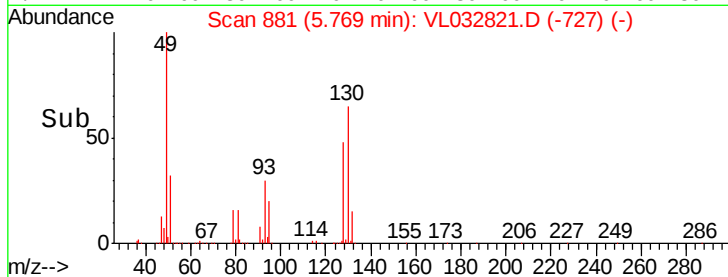
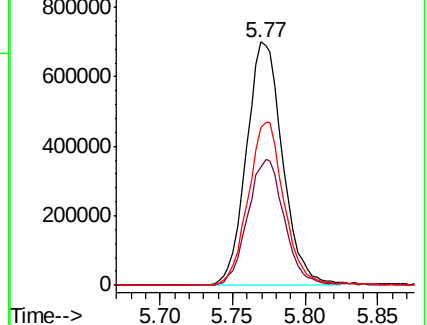
130 67.3 31.4 94.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.606 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032821.D

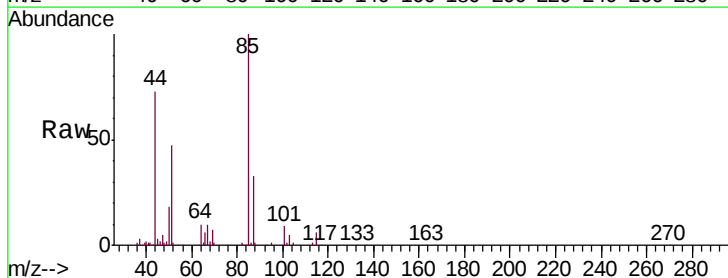
Acq: 28 Nov 2018 00:05

Tgt Ion: 85 Resp: 106227

Ion Ratio Lower Upper

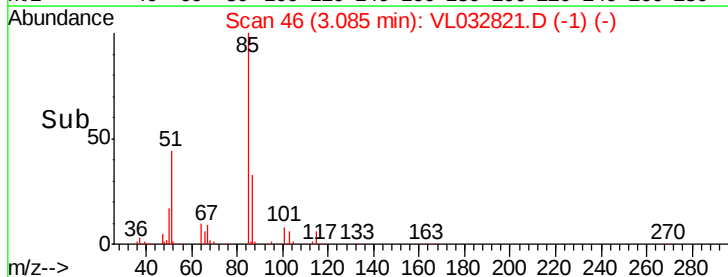
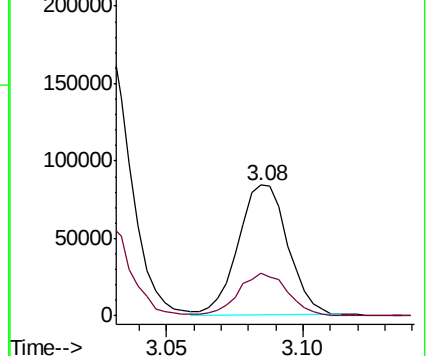
85 100

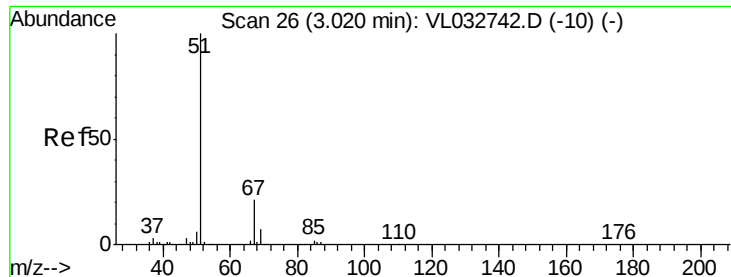
87 32.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 141.560 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL032821.D

Acq: 28 Nov 2018 00:05

Instrument :

MSVOA_L

ClientSampleId :

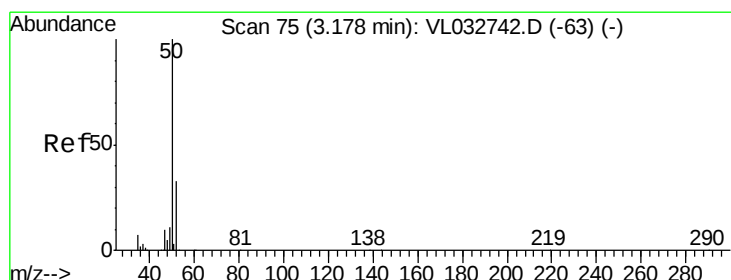
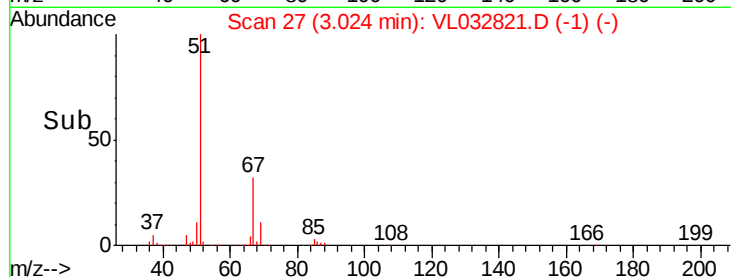
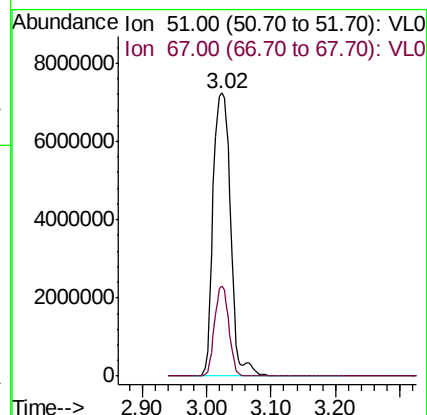
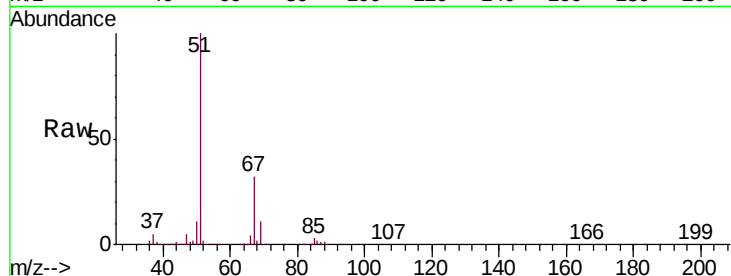
EP2-SV-05DL

Tgt Ion: 51 Resp:13695547

Ion Ratio Lower Upper

51 100

67 25.9 16.1 24.1#



#4

Chloromethane

Concen: 0.351 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.09 min

Lab File: VL032821.D

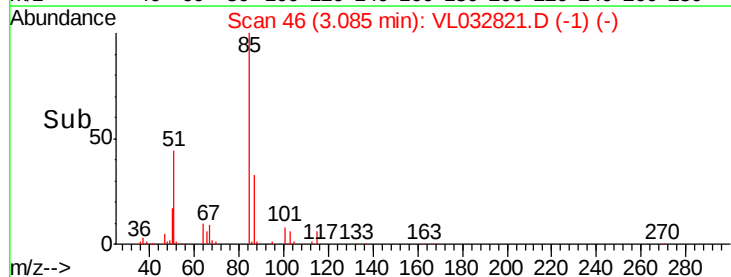
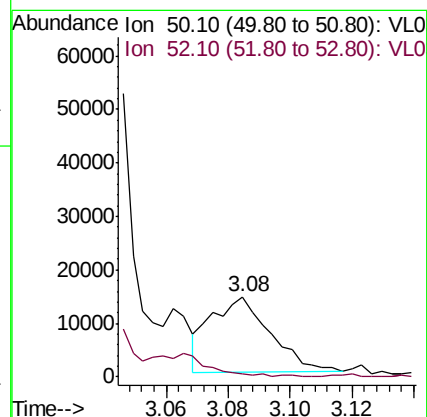
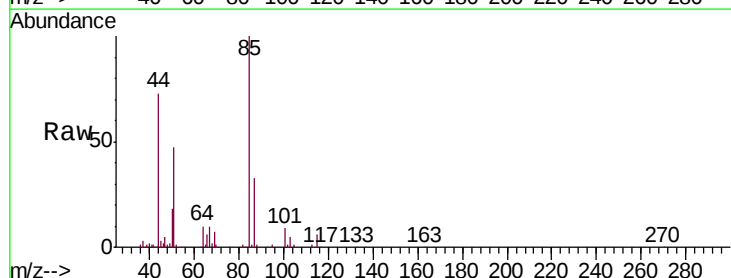
Acq: 28 Nov 2018 00:05

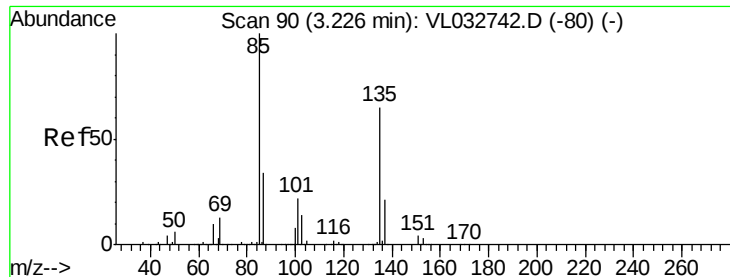
Tgt Ion: 50 Resp: 18808

Ion Ratio Lower Upper

50 100

52 2.9 26.6 40.0#





#8

Dichlorotetrafluoroethane

Concen: 0.768 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.14 min

Lab File: VL032821.D

Acq: 28 Nov 2018 00:05

Instrument :

MSVOA_L

ClientSampleId :

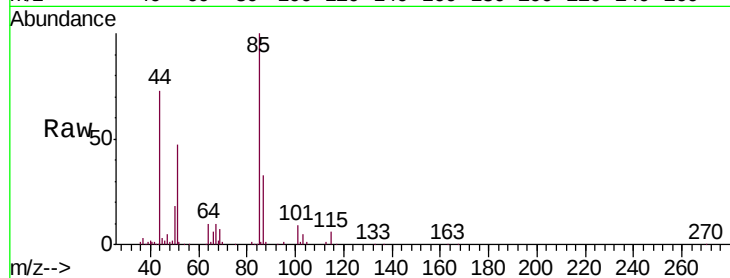
EP2-SV-05DL

Tgt Ion: 85 Resp: 106227

Ion Ratio Lower Upper

85 100

135 0.0 53.8 80.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0

200000

150000

100000

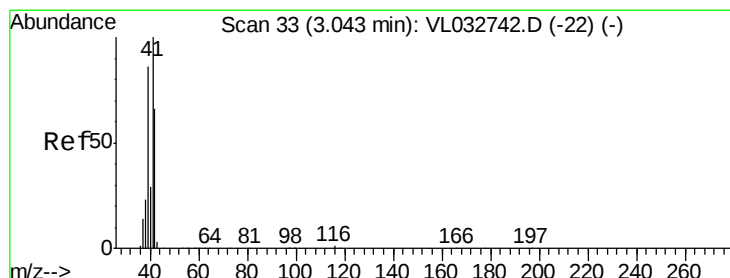
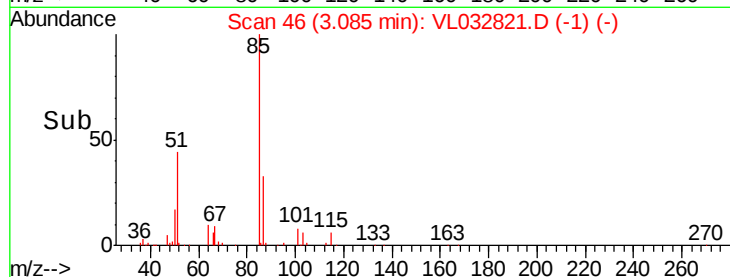
50000

0

3.05

3.10

Time-->



#9

Propene

Concen: 2.219 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032821.D

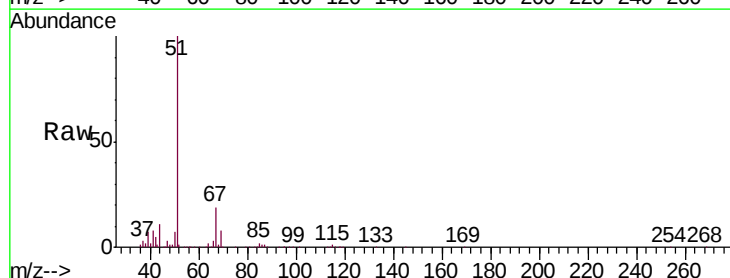
Acq: 28 Nov 2018 00:05

Tgt Ion: 41 Resp: 85894

Ion Ratio Lower Upper

41 100

42 72.3 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

60000

40000

20000

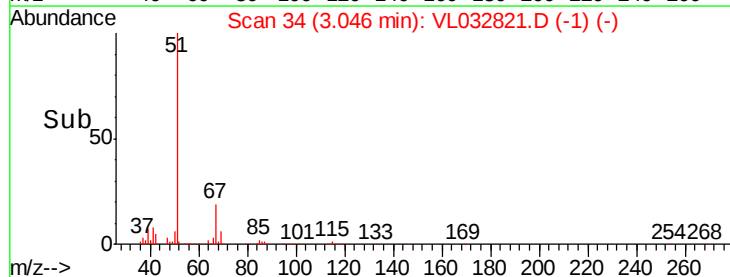
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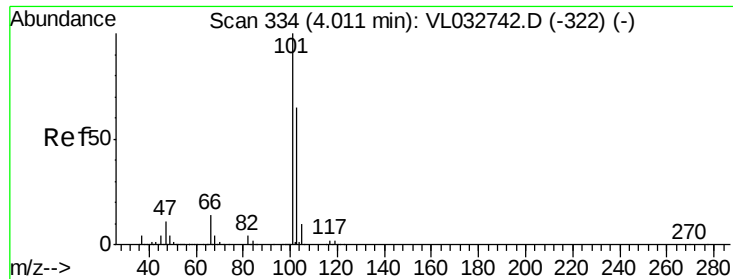
3.00

3.05

3.10

Time-->

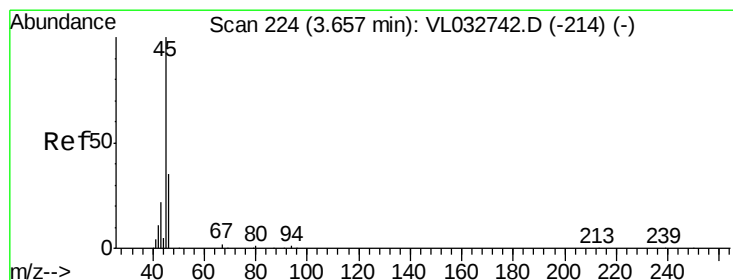
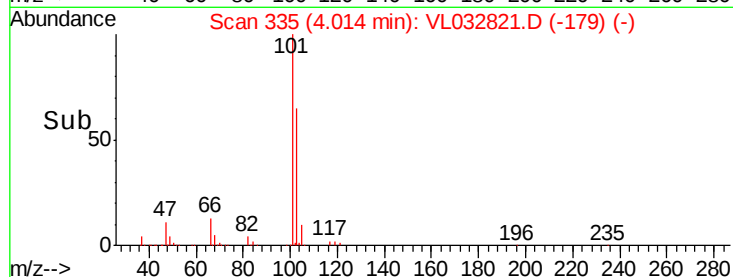
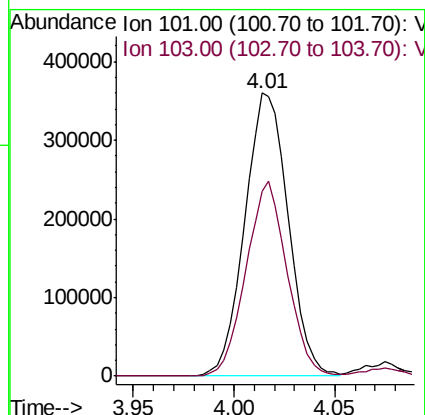
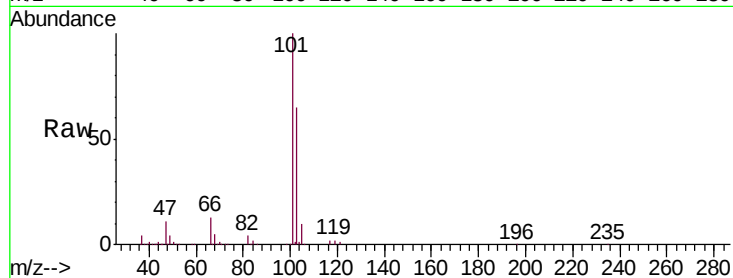




#11
 Trichlorofluoromethane
 Concen: 3.293 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. 0.00 min
 Lab File: VL032821.D
 Acq: 28 Nov 2018 00:05

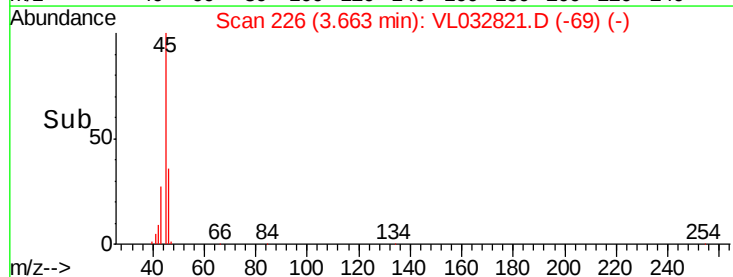
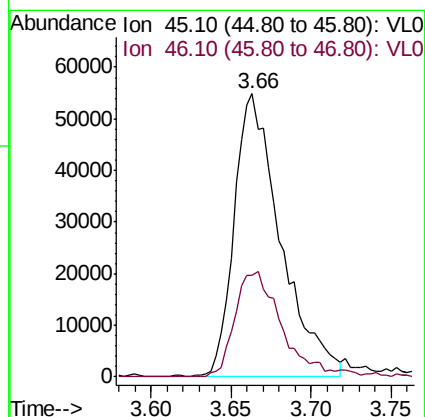
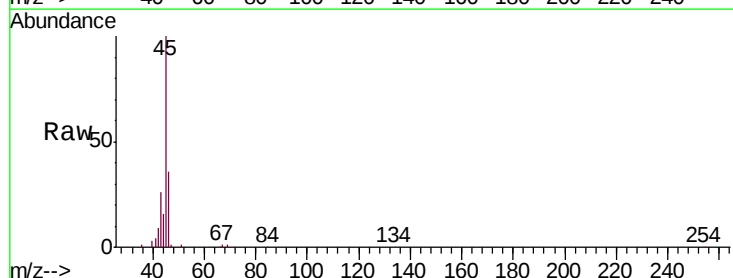
Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-05DL

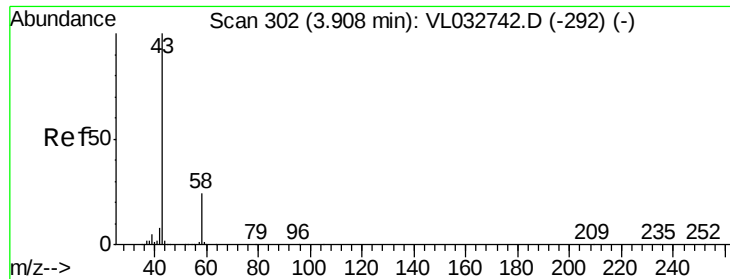
Tgt Ion:101 Resp: 544382
 Ion Ratio Lower Upper
 101 100
 103 65.3 51.6 77.4



#13
 Ethanol
 Concen: 8.580 ppbv
 RT: 3.66 min Scan# 226
 Delta R.T. 0.01 min
 Lab File: VL032821.D
 Acq: 28 Nov 2018 00:05

Tgt Ion: 45 Resp: 108806
 Ion Ratio Lower Upper
 45 100
 46 39.0 14.5 57.9





#15

Acetone

Concen: 2.280 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.01 min

Lab File: VL032821.D

Acq: 28 Nov 2018 00:05

Instrument :

MSVOA_L

ClientSampleId :

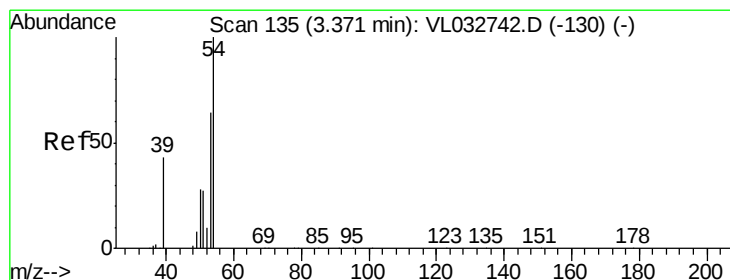
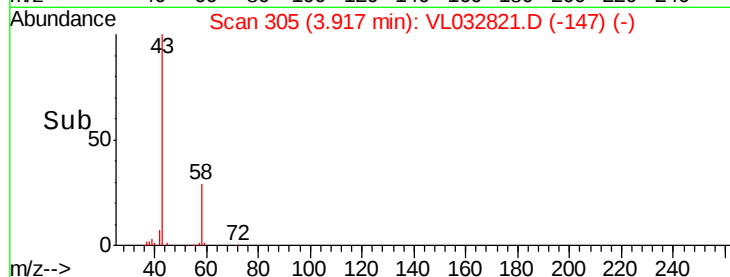
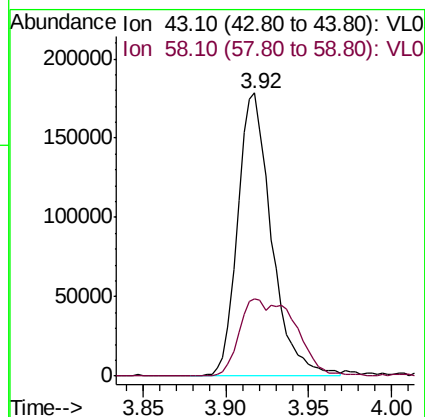
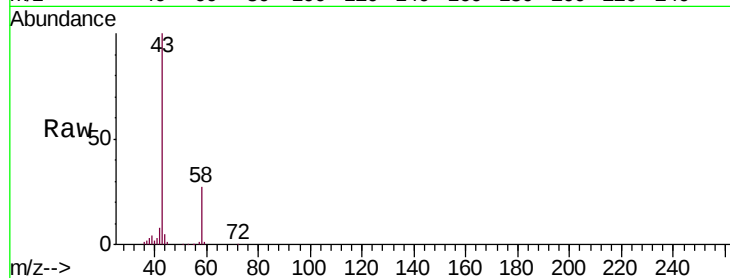
EP2-SV-05DL

Tgt Ion: 43 Resp: 254050

Ion Ratio Lower Upper

43 100

58 45.4 21.1 31.7#



#16

1,3-Butadiene

Concen: 1.651 ppbv

RT: 3.36 min Scan# 131

Delta R.T. -0.01 min

Lab File: VL032821.D

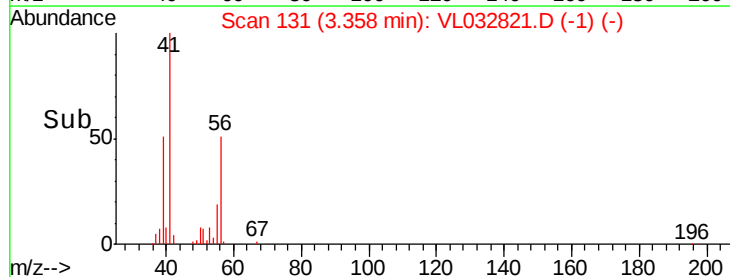
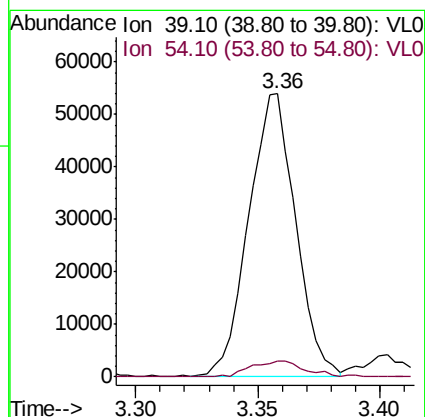
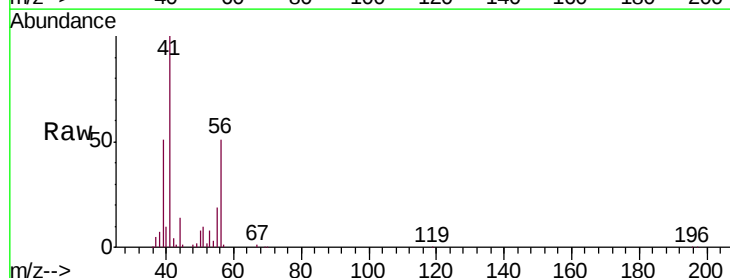
Acq: 28 Nov 2018 00:05

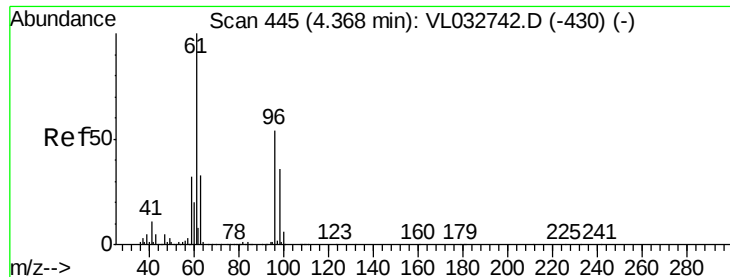
Tgt Ion: 39 Resp: 71257

Ion Ratio Lower Upper

39 100

54 6.6 68.9 103.3#





#17

tert-Butyl alcohol

Concen: 0.135 ppbv

RT: 4.40 min Scan# 454

Delta R.T. 0.03 min

Lab File: VL032821.D

Acq: 28 Nov 2018 00:05

Instrument :

MSVOA_L

ClientSampleId :

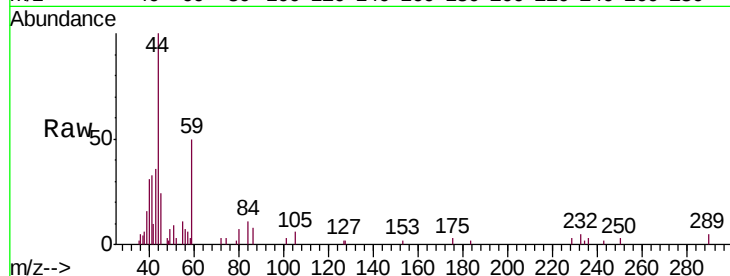
EP2-SV-05DL

Tgt Ion: 59 Resp: 4728

Ion Ratio Lower Upper

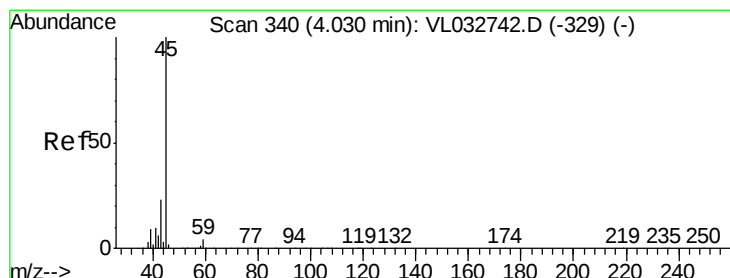
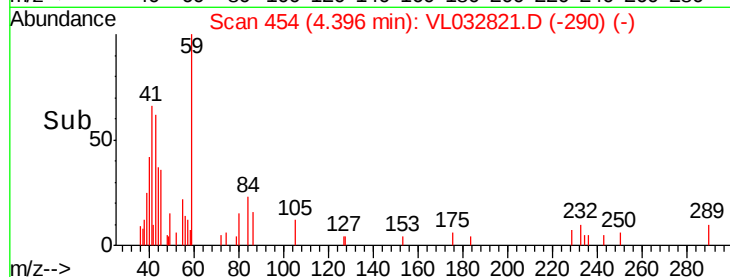
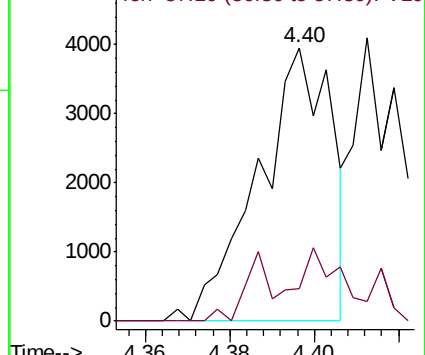
59 100

57 30.0 7.8 11.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 1.209 ppbv

RT: 4.07 min Scan# 352

Delta R.T. 0.04 min

Lab File: VL032821.D

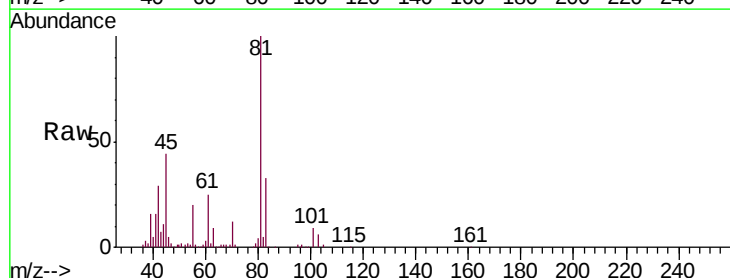
Acq: 28 Nov 2018 00:05

Tgt Ion: 45 Resp: 89743

Ion Ratio Lower Upper

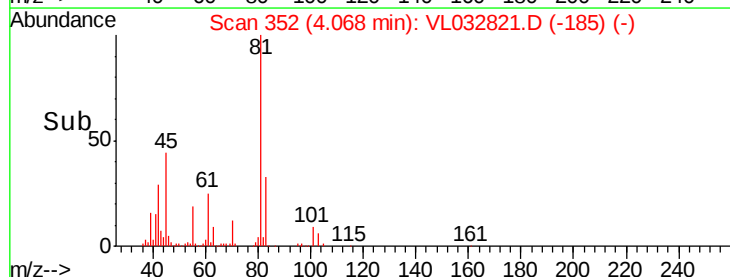
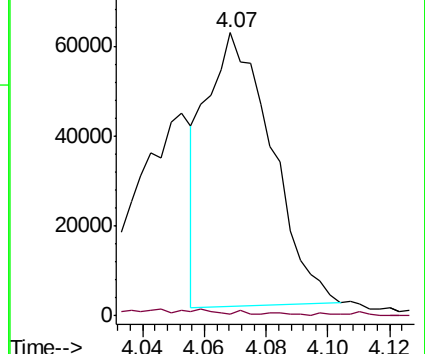
45 100

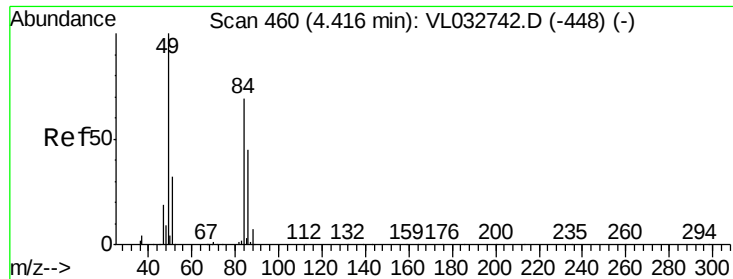
58 0.0 1.4 2.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

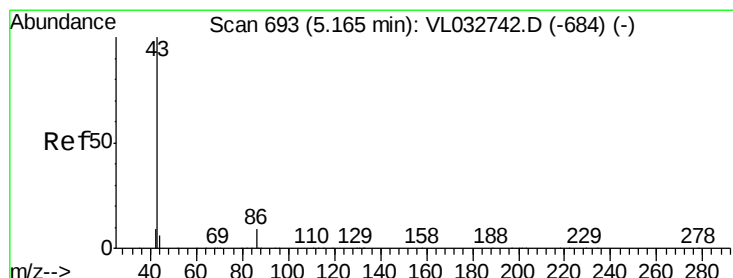
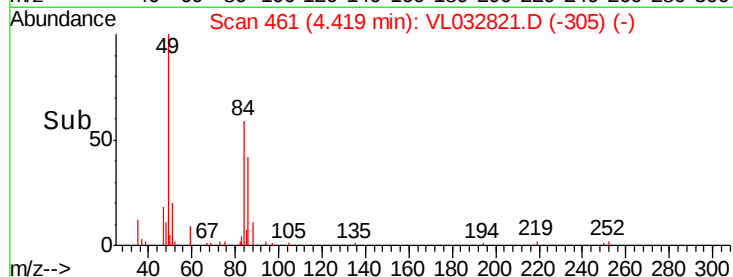
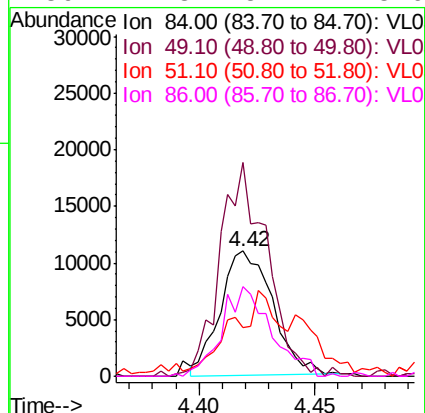
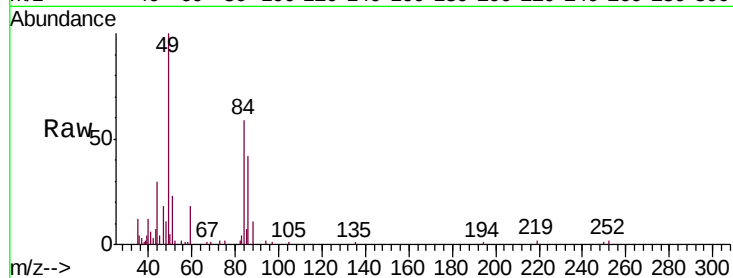




#20
Methylene Chloride
Concen: 0.299 ppbv
RT: 4.42 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL032821.D
Acq: 28 Nov 2018 00:05

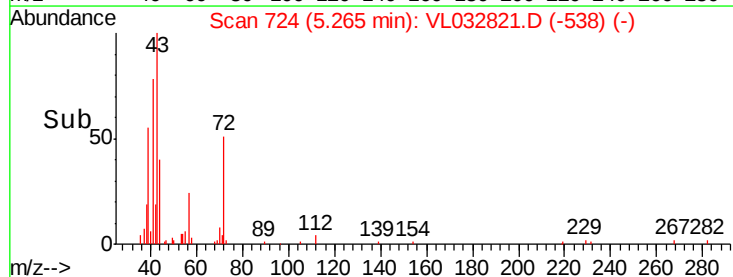
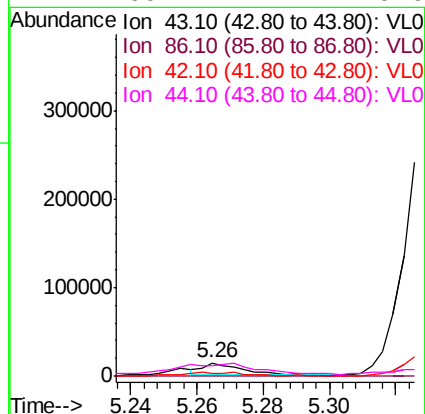
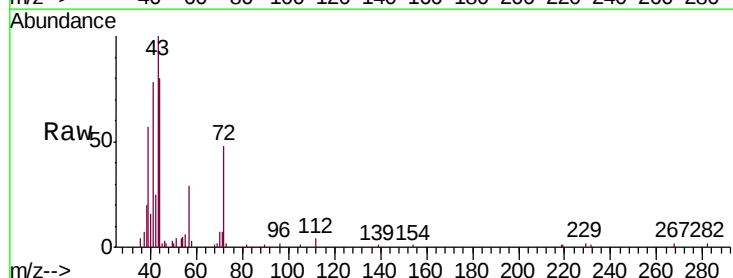
Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-05DL

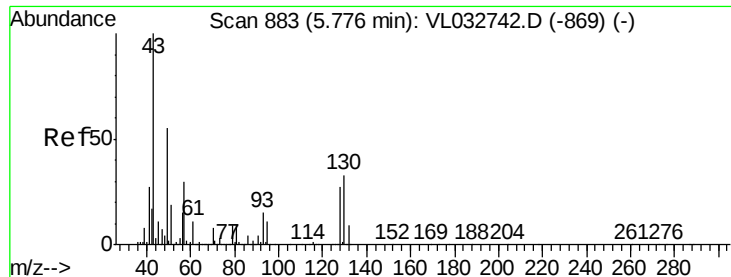
Tgt Ion:	84	Resp:	17257
Ion	Ratio	Lower	Upper
84	100		
49	171.2	115.8	173.6
51	32.5	36.9	55.3#
86	72.3	52.4	78.6



#23
Vinyl Acetate
Concen: 0.058 ppbv
RT: 5.26 min Scan# 724
Delta R.T. 0.10 min
Lab File: VL032821.D
Acq: 28 Nov 2018 00:05

Tgt Ion:	43	Resp:	11871
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.4#
42	23.6	7.8	11.6#
44	69.4	4.4	6.6#

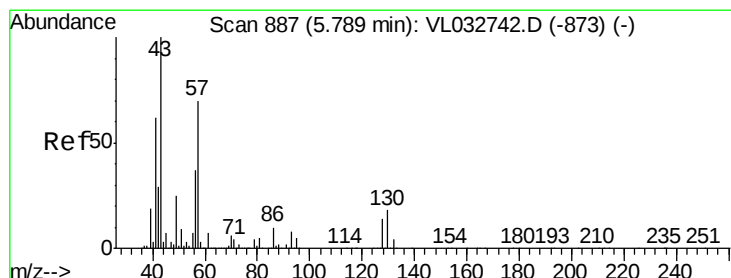
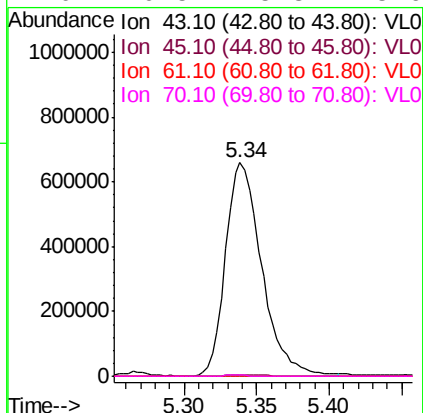
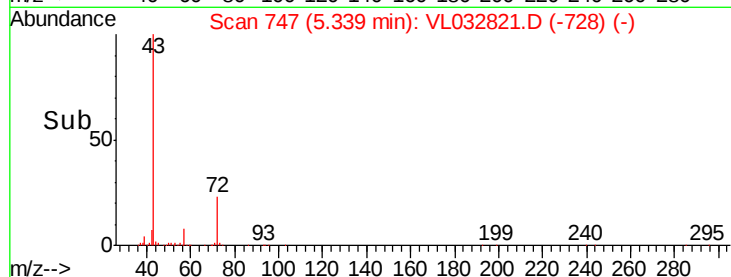
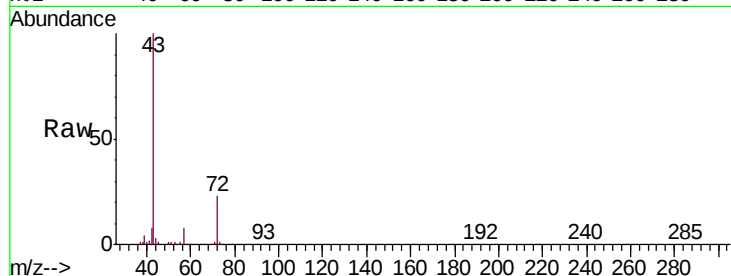




#25
Ethyl Acetate
Concen: 4.391 ppbv
RT: 5.34 min Scan# 747
Delta R.T. -0.44 min
Lab File: VL032821.D
Acq: 28 Nov 2018 00:05

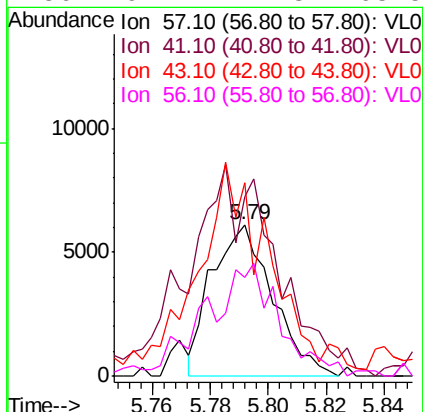
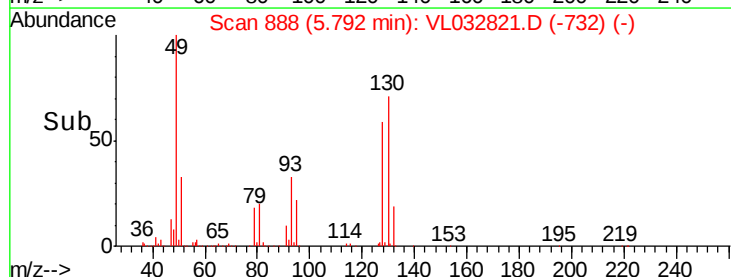
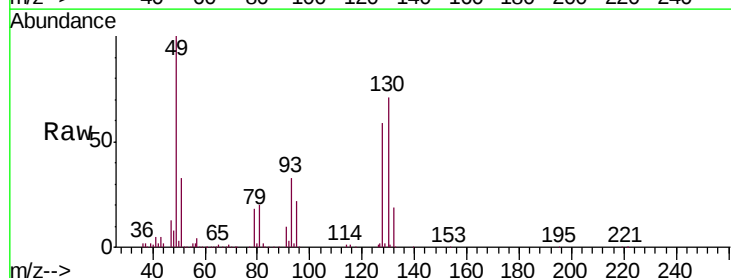
Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-05DL

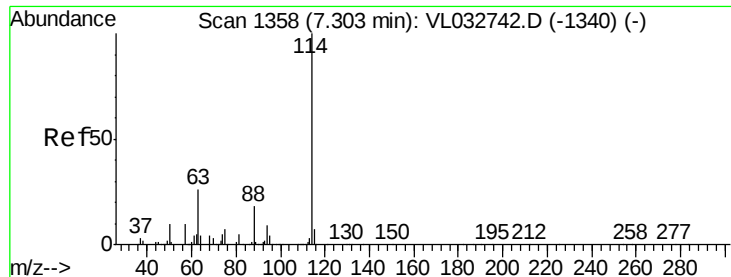
Tgt Ion: 43 Resp: 1140487
Ion Ratio Lower Upper
43 100
45 0.8 7.9 11.9#
61 0.0 7.8 11.6#
70 0.5 5.8 8.6#



#26
Hexane
Concen: 0.077 ppbv
RT: 5.79 min Scan# 888
Delta R.T. 0.00 min
Lab File: VL032821.D
Acq: 28 Nov 2018 00:05

Tgt Ion: 57 Resp: 8916
Ion Ratio Lower Upper
57 100
41 214.8 70.3 105.5#
43 0.0 174.0 261.0#
56 91.7 42.3 63.5#

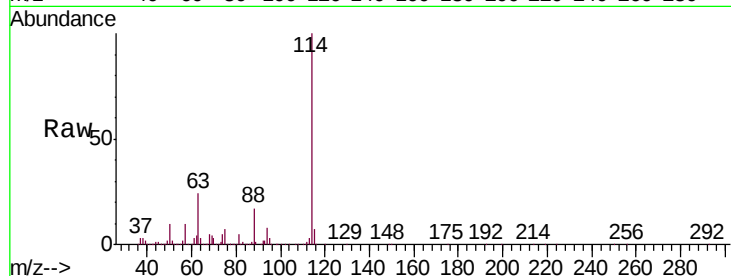




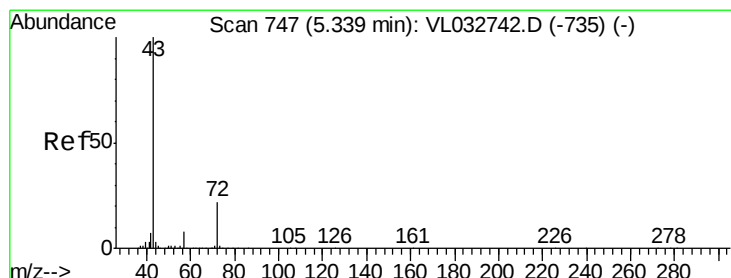
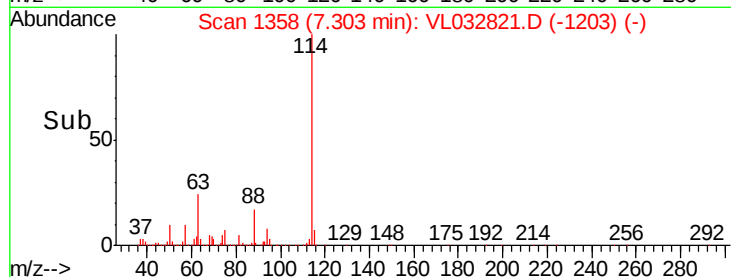
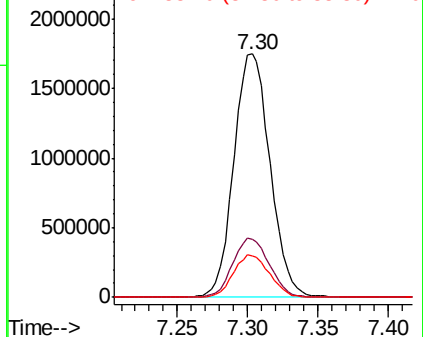
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. -0.00 min
 Lab File: VL032821.D
 Acq: 28 Nov 2018 00:05

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-05DL

Tgt Ion: 114 Resp: 3149059
 Ion Ratio Lower Upper
 114 100
 63 24.6 20.9 31.3
 88 17.4 14.4 21.6

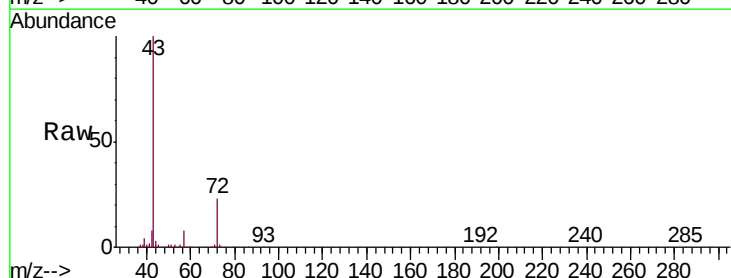


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

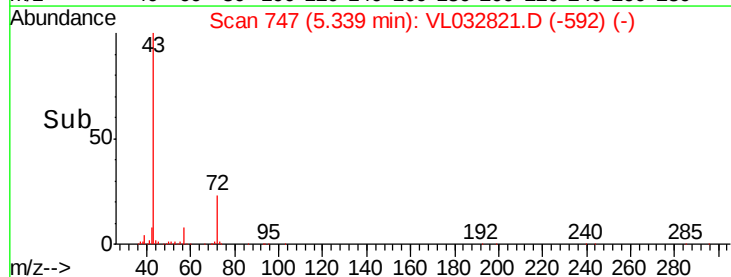
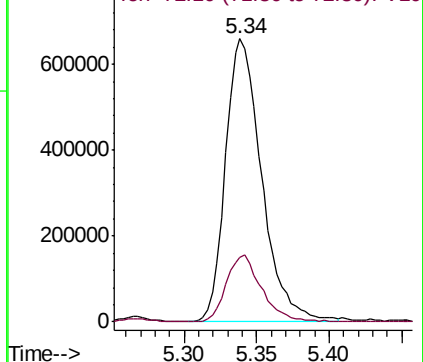


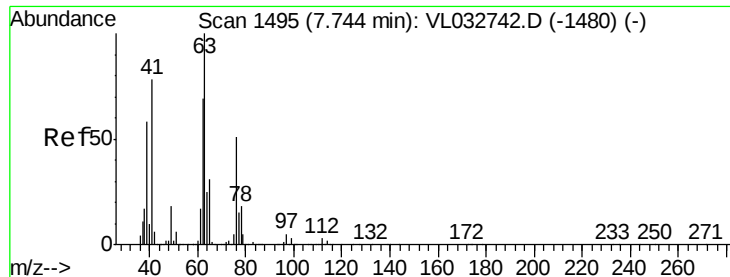
#34
 2-Butanone
 Concen: 6.983 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. -0.00 min
 Lab File: VL032821.D
 Acq: 28 Nov 2018 00:05

Tgt Ion: 43 Resp: 1140487
 Ion Ratio Lower Upper
 43 100
 72 23.5 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 8.092 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. -0.44 min

Lab File: VL032821.D

Acq: 28 Nov 2018 00:05

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-05DL

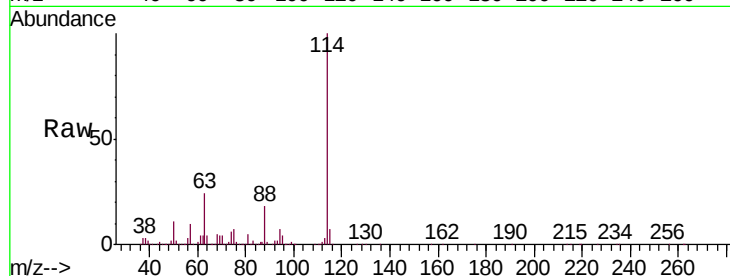
Tgt Ion: 63 Resp: 773095

Ion Ratio Lower Upper

63 100

41 0.4 62.0 93.0#

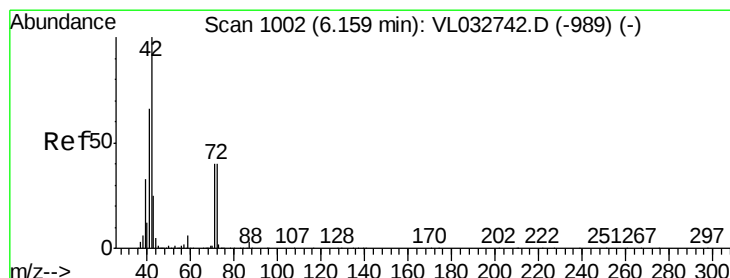
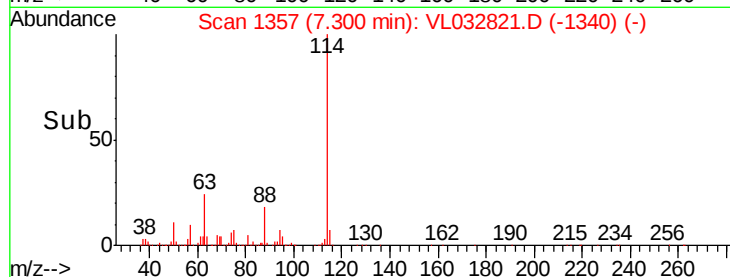
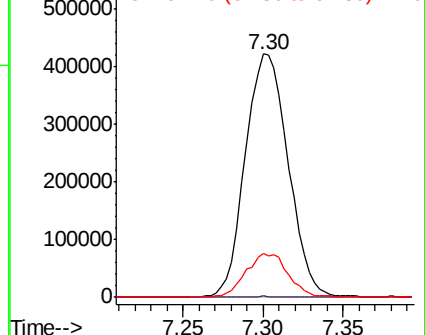
62 17.9 55.4 83.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#41

Tetrahydrofuran

Concen: 0.173 ppbv

RT: 6.18 min Scan# 1009

Delta R.T. 0.02 min

Lab File: VL032821.D

Acq: 28 Nov 2018 00:05

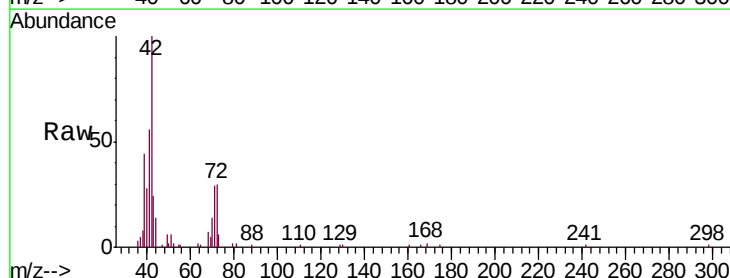
Tgt Ion: 42 Resp: 16193

Ion Ratio Lower Upper

42 100

72 72.5 32.4 48.6#

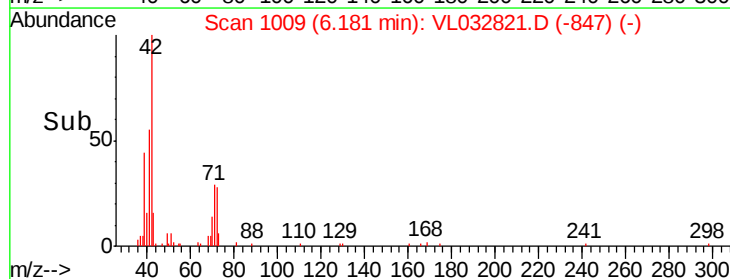
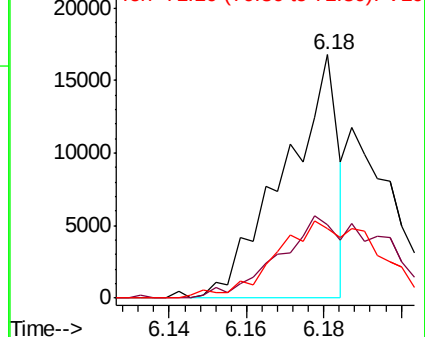
71 63.2 31.6 47.4#

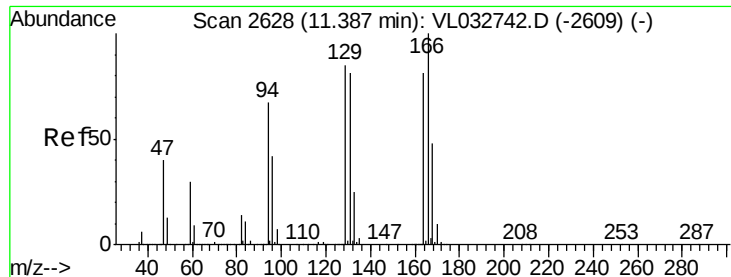


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#52

Tetrachloroethene

Concen: 0.390 ppbv

RT: 11.39 min Scan# 2628

Delta R.T. -0.00 min

Lab File: VL032821.D

Acq: 28 Nov 2018 00:05

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-05DL

Tgt Ion:164 Resp: 33999

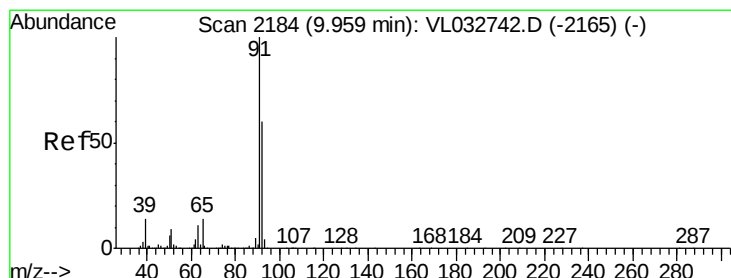
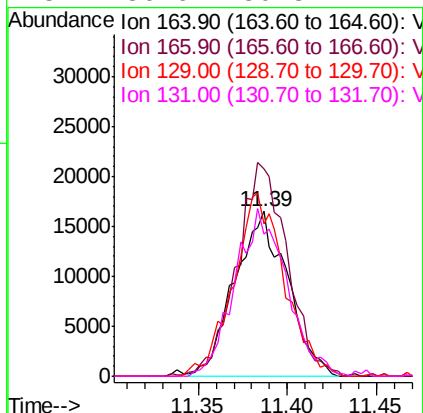
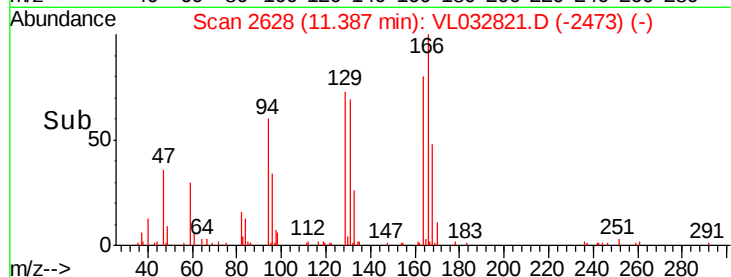
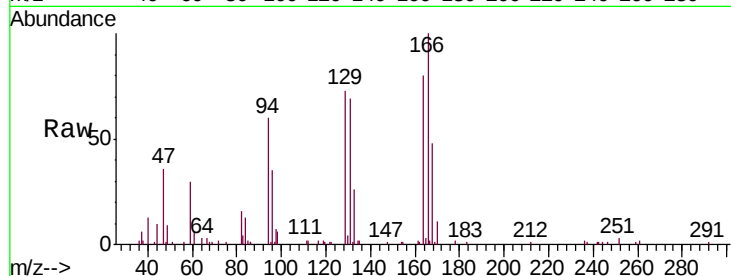
Ion Ratio Lower Upper

164 100

166 123.2 99.3 148.9

129 95.4 83.9 125.9

131 86.6 80.8 121.2



#53

Toluene

Concen: 0.077 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL032821.D

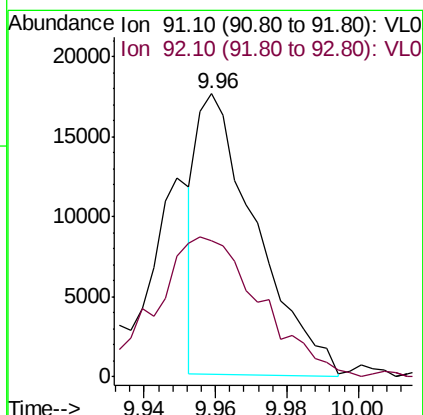
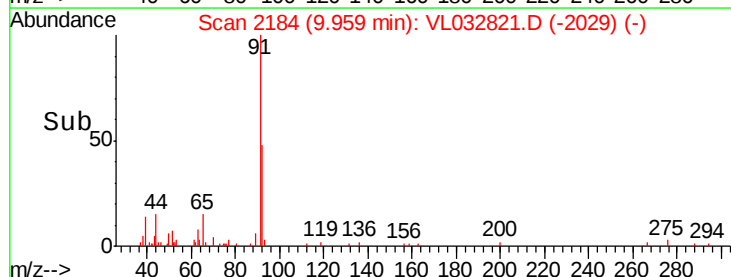
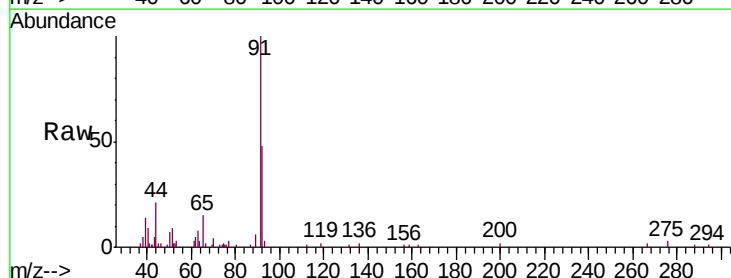
Acq: 28 Nov 2018 00:05

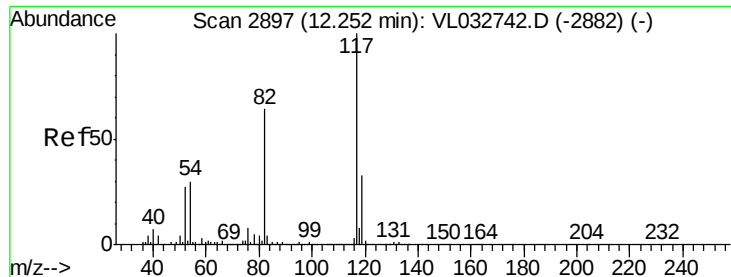
Tgt Ion: 91 Resp: 20215

Ion Ratio Lower Upper

91 100

92 89.6 47.9 71.9#

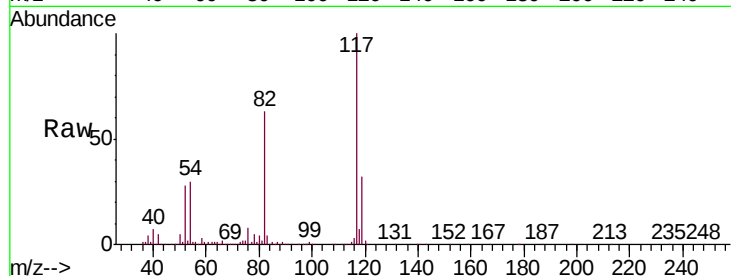




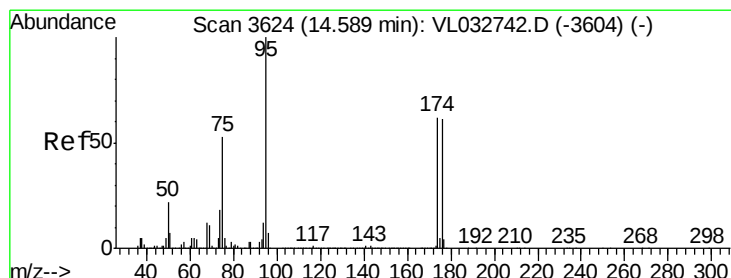
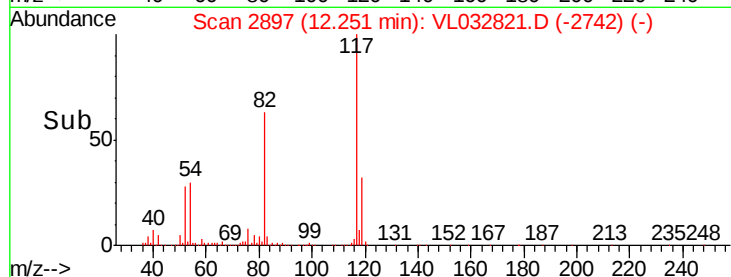
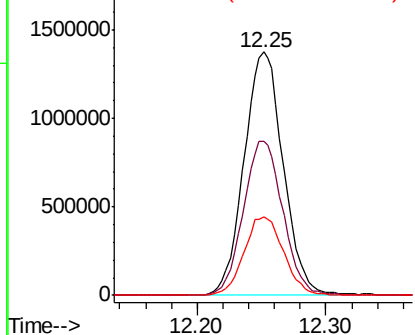
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2897
Delta R.T. -0.00 min
Lab File: VL032821.D
Acq: 28 Nov 2018 00:05

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-05DL

Tgt Ion: 117 Resp: 2904926
Ion Ratio Lower Upper
117 100
82 64.6 51.0 76.6
119 33.0 28.0 42.0

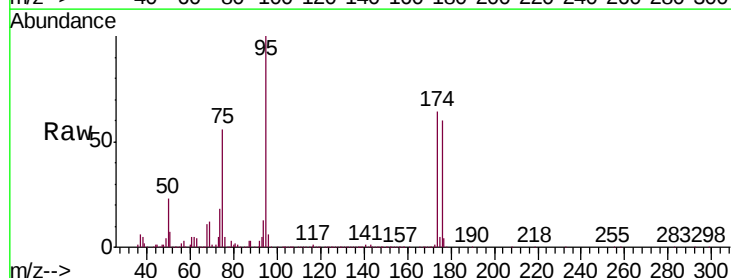


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.771 ppbv
RT: 14.59 min Scan# 3624
Delta R.T. -0.00 min
Lab File: VL032821.D
Acq: 28 Nov 2018 00:05

Tgt Ion: 95 Resp: 2122896
Ion Ratio Lower Upper
95 100
174 66.1 50.7 76.1
175 4.9 3.8 5.6



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

