

Data File : VL032570.D
Acq On : 28 Sep 2018 4:42
Operator : SY/AP
Sample : J5094-04DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
FIA-1DL

Quant Time: Sep 28 06:48:47 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 25 05:17:15 2018
QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1360551	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2950411	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.27	117	2921449	10.00	ppbv	-0.02

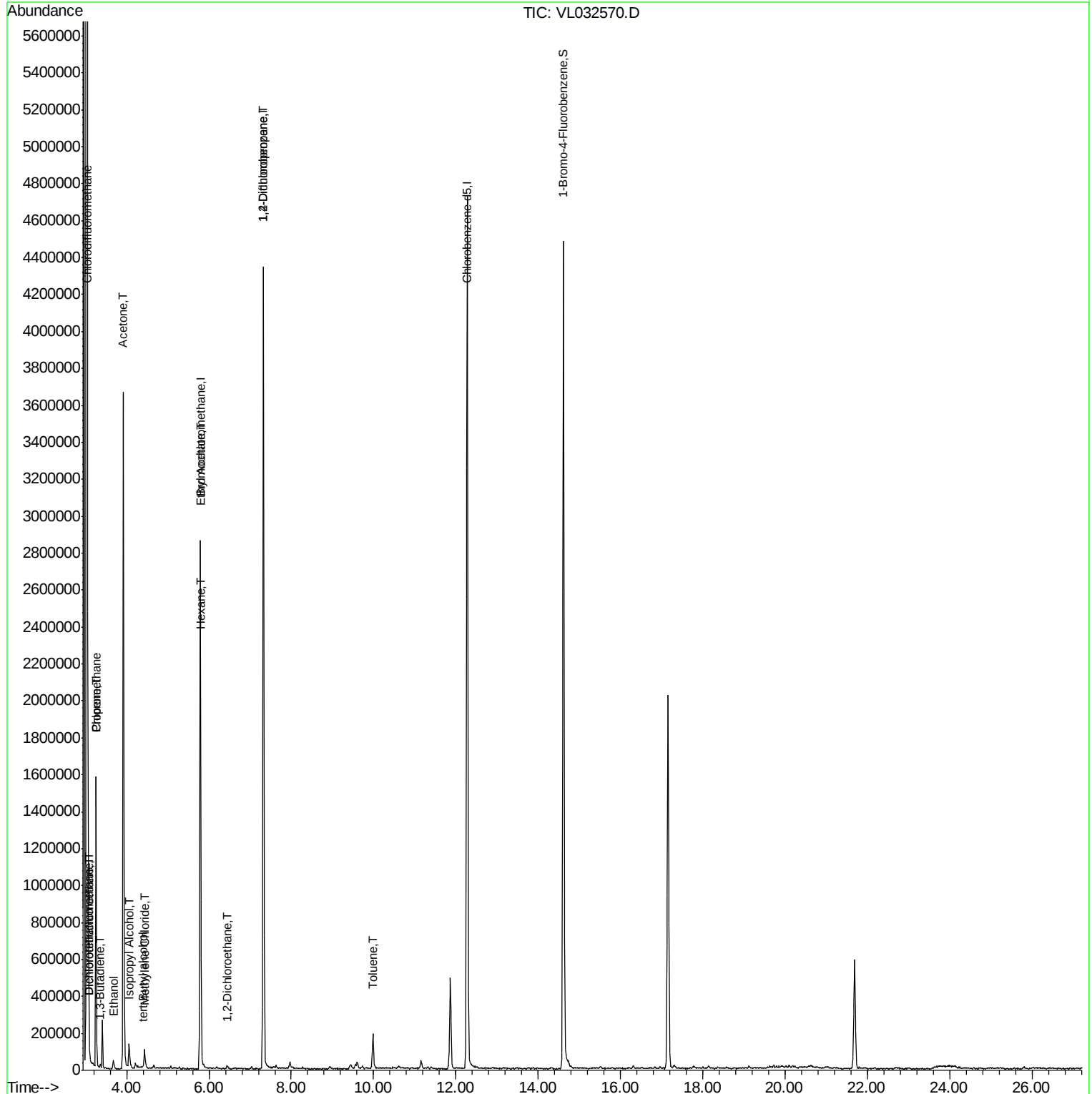
System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.61 95 2216389 10.06 ppbv -0.03
Spiked Amount 10.000 Range 65 - 135 Recovery = 100.60%

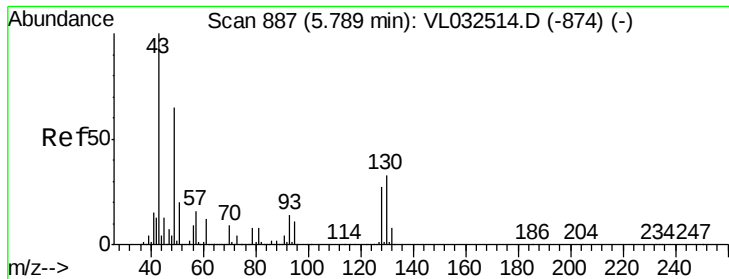
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.10	85	26651	0.212	ppbv	90
3) Chlorodifluoromethane	3.03	51	14601401	129.053	ppbv #	81
4) Chloromethane	3.25	50	13773	0.209	ppbv #	70
8) Dichlorotetrafluoroethane	3.10	85	26651	0.194	ppbv #	21
9) Propene	3.26	41	448062	9.127	ppbv	91
13) Ethanol	3.67	45	18528	1.256	ppbv #	13
15) Acetone	3.92	43	3817482	31.965	ppbv	100
16) 1,3-Butadiene	3.36	39	3097	0.064	ppbv #	19
17) tert-Butyl alcohol	4.39	59	1125	0.075	ppbv #	100
19) Isopropyl Alcohol	4.06	45	149622	1.799	ppbv #	93
20) Methylene Chloride	4.43	84	29241	0.506	ppbv	94
25) Ethyl Acetate	5.80	43	16103	0.056	ppbv #	84
26) Hexane	5.81	57	31107	0.238	ppbv #	53
37) 1,2-Dichloroethane	6.44	62	8513	0.059	ppbv #	85
39) 1,2-Dichloropropane	7.32	63	804226	7.485	ppbv #	26
53) Toluene	9.98	91	117393	0.404	ppbv	96

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 887

Delta R.T. -0.02 min

Lab File: VL032570.D

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Instrument :

MSVOA_L

ClientSampleId :

FIA-1DL

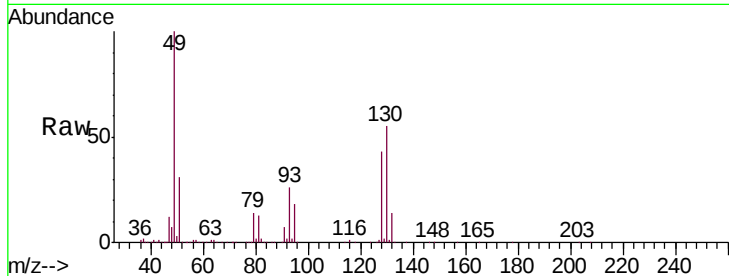
Tgt Ion: 49 Resp: 1360551

Ion Ratio Lower Upper

49 100

128 43.5 20.7 62.1

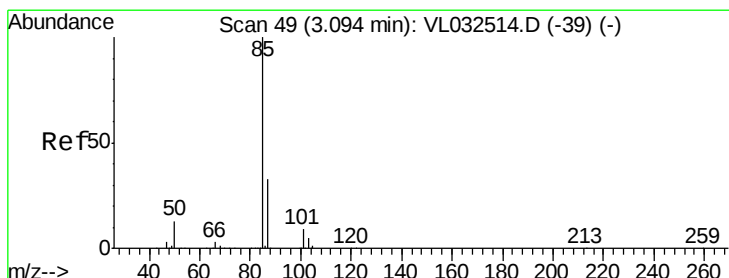
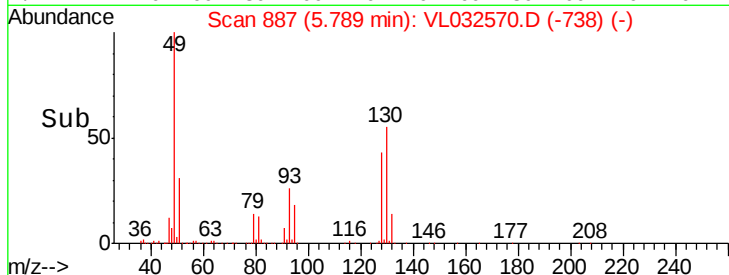
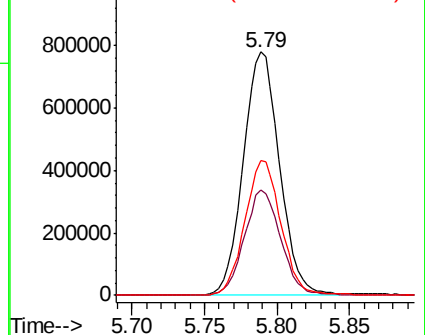
130 55.4 26.6 79.7



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: 0.212 ppbv

RT: 3.10 min Scan# 50

Delta R.T. -0.01 min

Lab File: VL032570.D

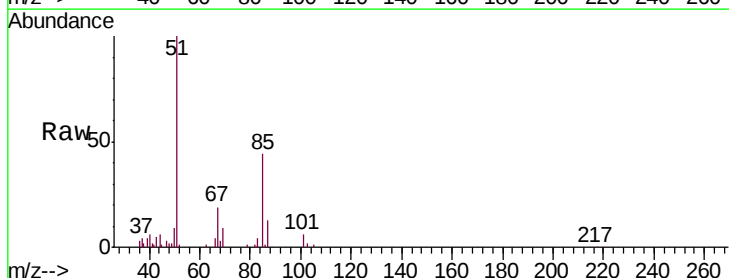
Acq: 28 Sep 2018 4:42

Tgt Ion: 85 Resp: 26651

Ion Ratio Lower Upper

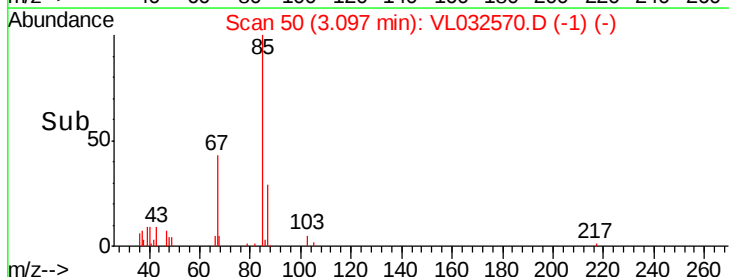
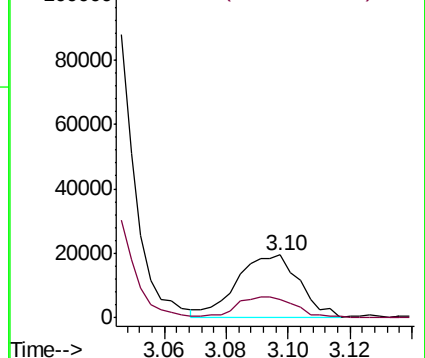
85 100

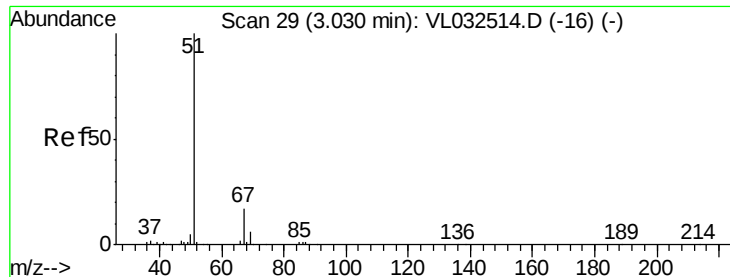
87 27.2 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

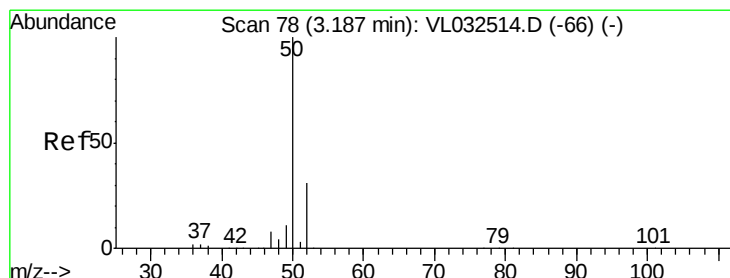
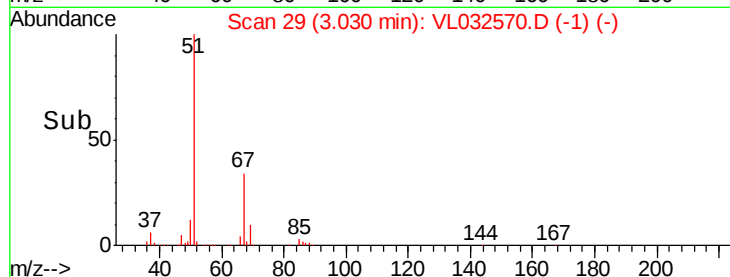
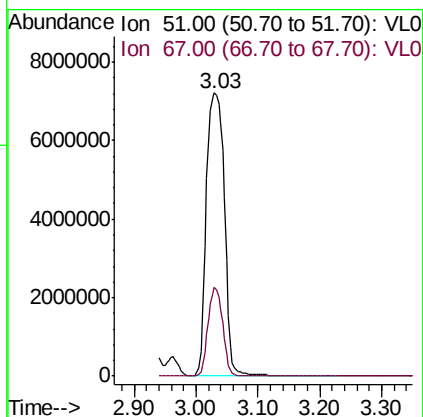
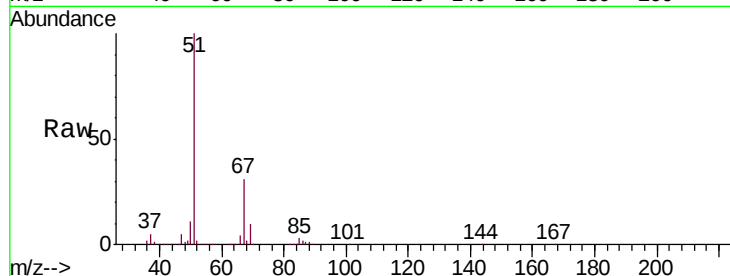




#3
 Chlorodifluoromethane
 Concen: 129.053 ppbv
 RT: 3.03 min Scan# 29
 Delta R.T. -0.01 min
 Lab File: VL032570.D
 Acq: 28 Sep 2018 4:42

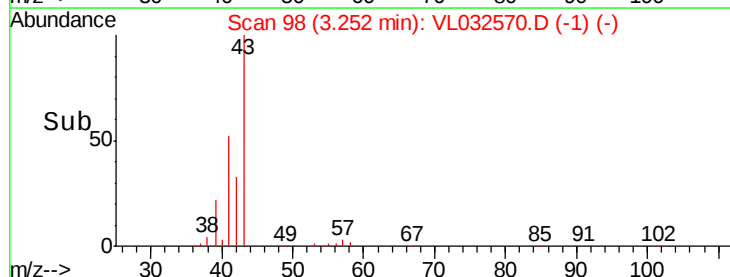
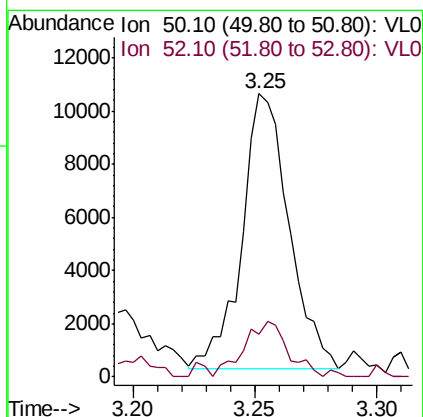
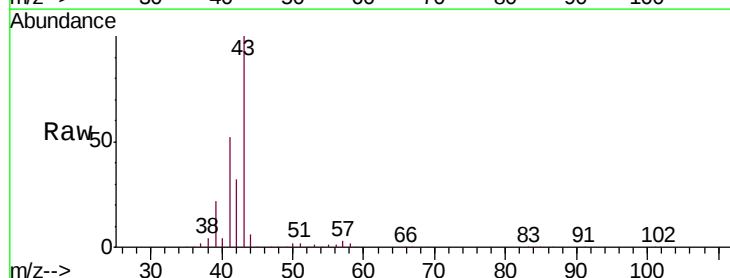
Instrument :
 MSVOA_L
 ClientSampled :
 FIA-1DL

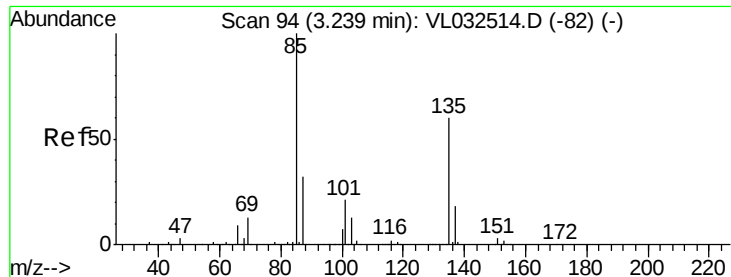
Tgt Ion: 51 Resp:14601401
 Ion Ratio Lower Upper
 51 100
 67 25.7 13.8 20.8#



#4
 Chloromethane
 Concen: 0.209 ppbv
 RT: 3.25 min Scan# 98
 Delta R.T. 0.05 min
 Lab File: VL032570.D
 Acq: 28 Sep 2018 4:42

Tgt Ion: 50 Resp: 13773
 Ion Ratio Lower Upper
 50 100
 52 15.5 25.6 38.4#





#8

Dichlorotetrafluoroethane

Concen: 0.194 ppbv

RT: 3.10 min Scan# 50

Delta R.T. -0.16 min

Lab File: VL032570.D

Acq: 28 Sep 2018 4:42

Instrument :

MSVOA_L

ClientSampleId :

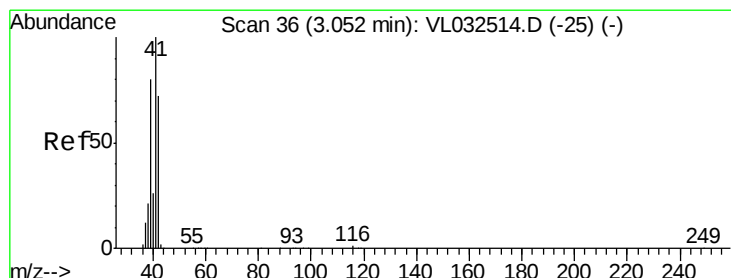
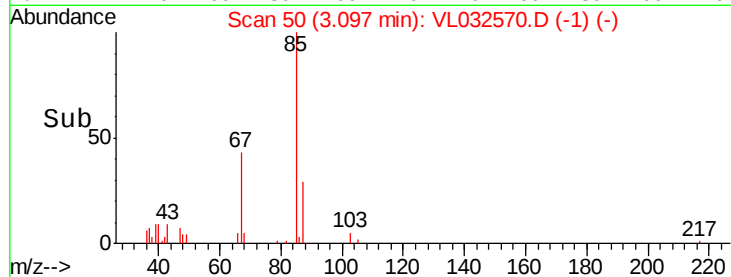
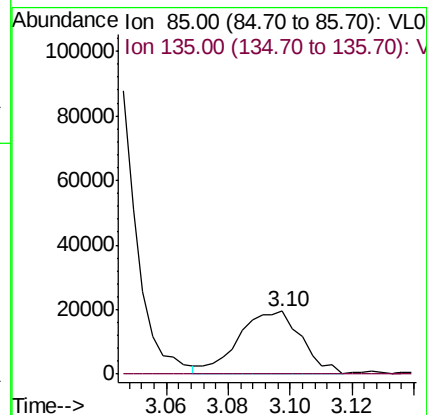
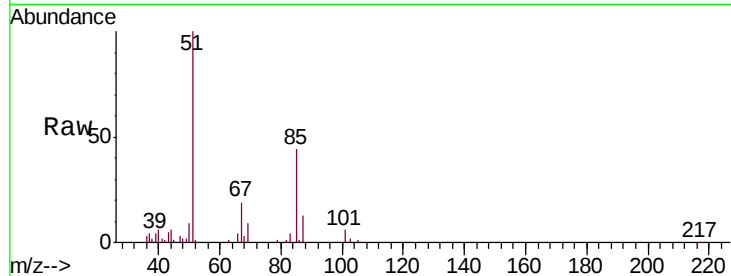
FIA-1DL

Tgt Ion: 85 Resp: 26651

Ion Ratio Lower Upper

85 100

135 0.6 48.6 72.8#



#9

Propene

Concen: 9.127 ppbv

RT: 3.26 min Scan# 99

Delta R.T. 0.19 min

Lab File: VL032570.D

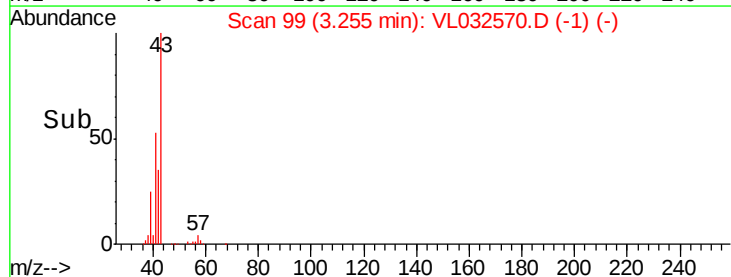
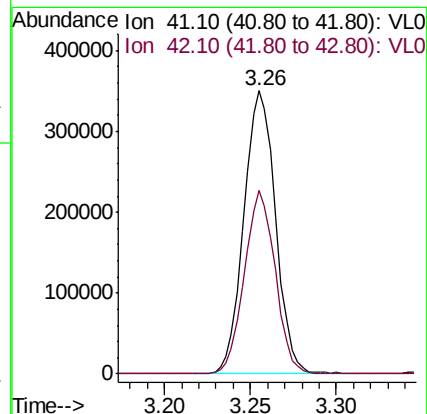
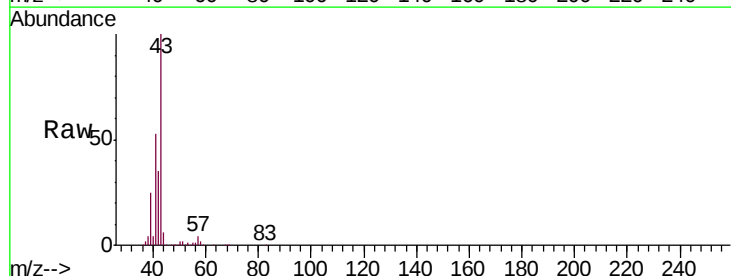
Acq: 28 Sep 2018 4:42

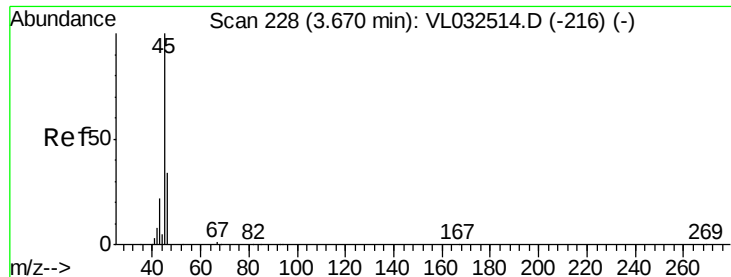
Tgt Ion: 41 Resp: 448062

Ion Ratio Lower Upper

41 100

42 63.3 56.6 84.8





#13

Ethanol

Concen: 1.256 ppbv

RT: 3.67 min Scan# 229

Delta R.T. -0.01 min

Lab File: VL032570.D

Acq: 28 Sep 2018 4:42

Instrument :

MSVOA_L

ClientSampleId :

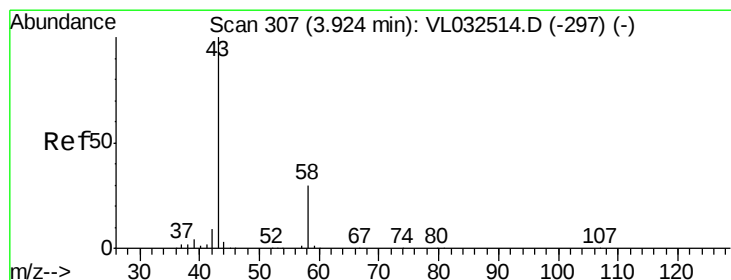
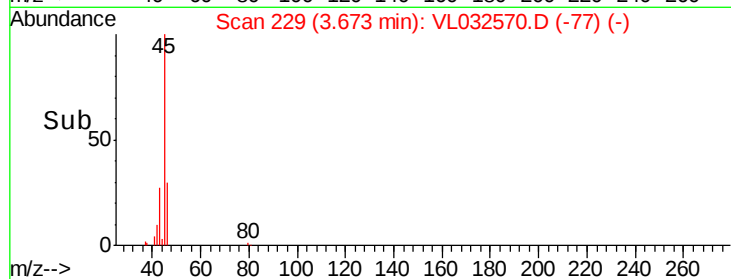
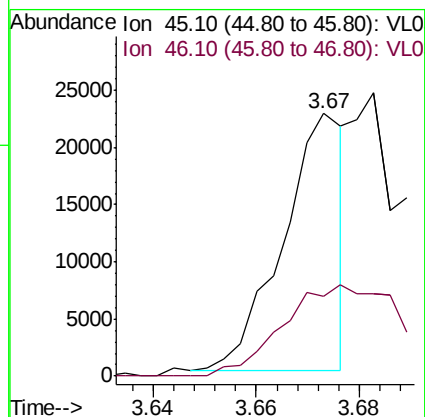
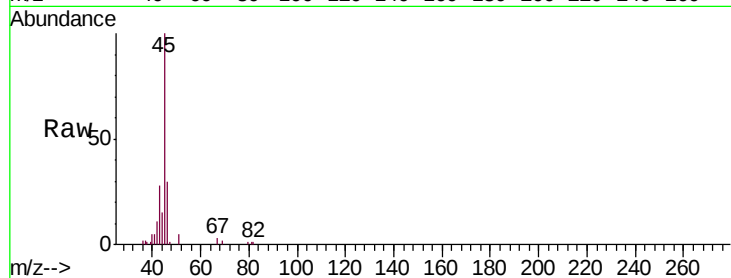
FIA-1DL

Tgt Ion: 45 Resp: 18528

Ion Ratio Lower Upper

45 100

46 86.4 14.2 56.8#



#15

Acetone

Concen: 31.965 ppbv

RT: 3.92 min Scan# 305

Delta R.T. -0.02 min

Lab File: VL032570.D

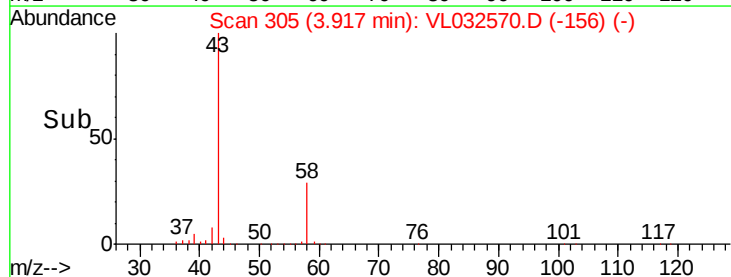
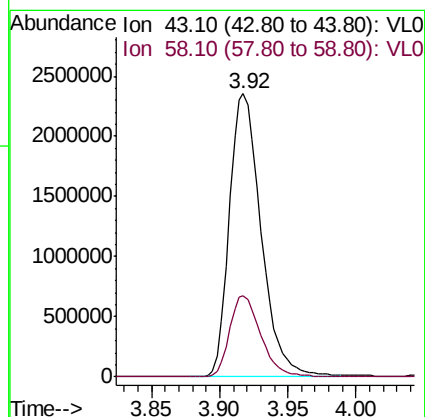
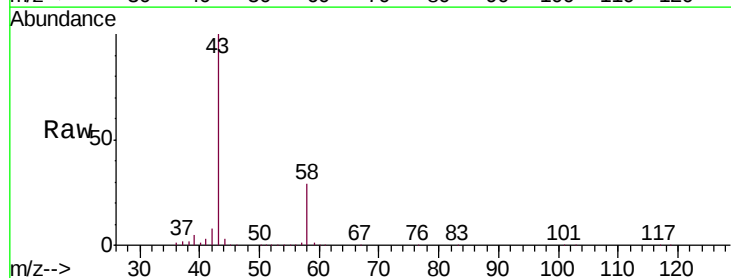
Acq: 28 Sep 2018 4:42

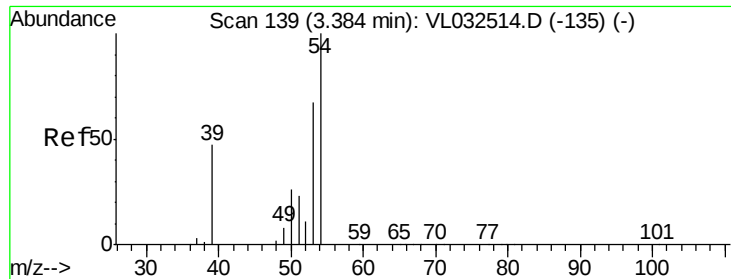
Tgt Ion: 43 Resp: 3817482

Ion Ratio Lower Upper

43 100

58 28.5 22.6 33.8

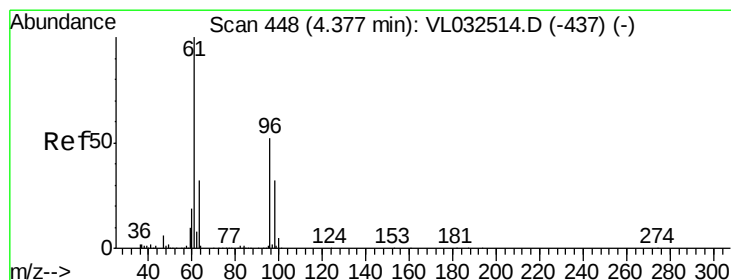
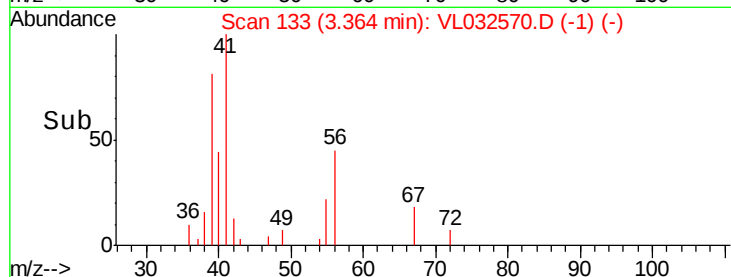
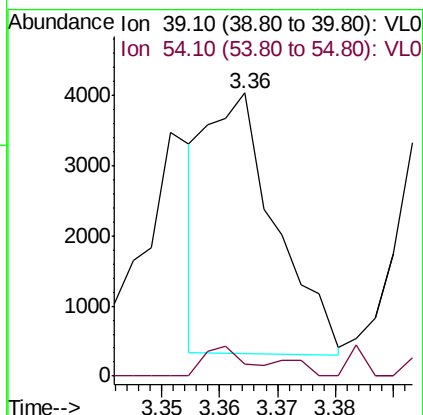
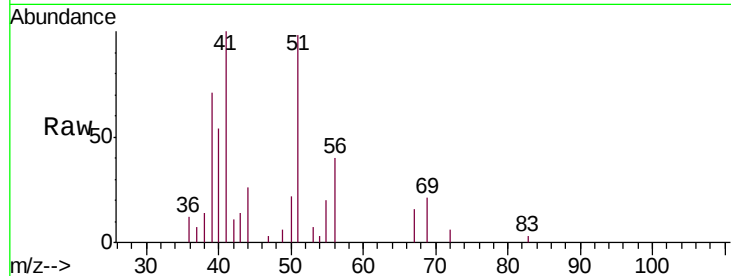




#16
1,3-Butadiene
Concen: 0.064 ppbv
RT: 3.36 min Scan# 133
Delta R.T. -0.03 min
Lab File: VL032570.D
Acq: 28 Sep 2018 4:42

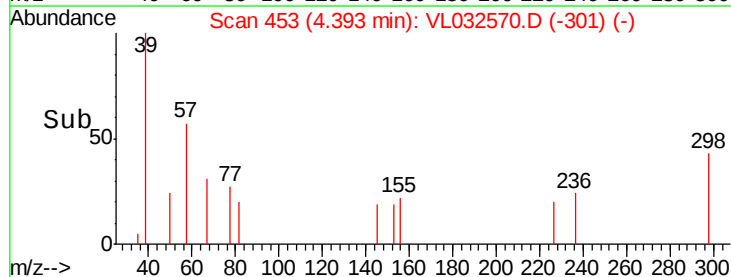
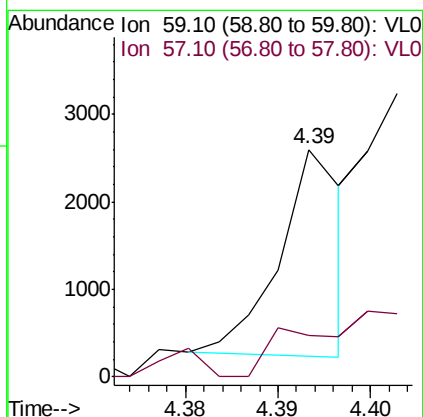
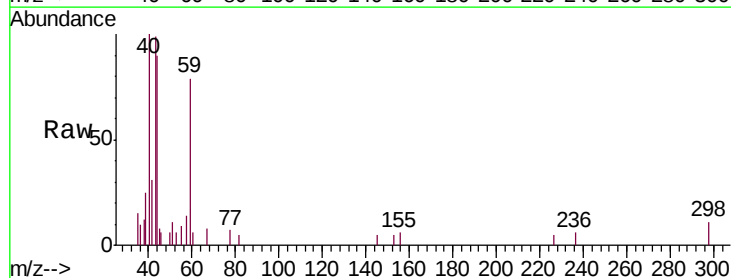
Instrument :
MSVOA_L
ClientSampleId :
FIA-1DL

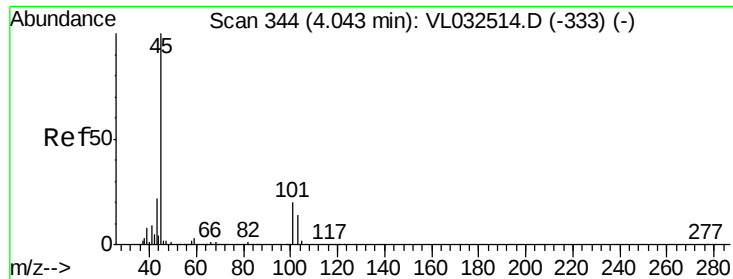
Tgt Ion: 39 Resp: 3097
Ion Ratio Lower Upper
39 100
54 20.0 80.8 121.2#



#17
tert-Butyl alcohol
Concen: 0.075 ppbv
RT: 4.39 min Scan# 453
Delta R.T. -0.01 min
Lab File: VL032570.D
Acq: 28 Sep 2018 4:42

Tgt Ion: 59 Resp: 1125
Ion Ratio Lower Upper
59 100
57 106.6 0.0 0.0#





#19

Isopropyl Alcohol

Concen: 1.799 ppbv

RT: 4.06 min Scan# 349

Delta R.T. -0.00 min

Lab File: VL032570.D

Acq: 28 Sep 2018 4:42

Instrument :

MSVOA_L

ClientSampleId :

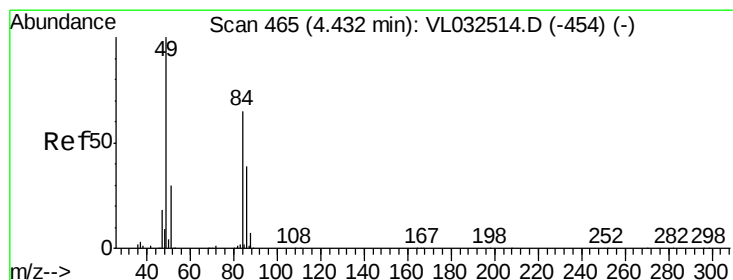
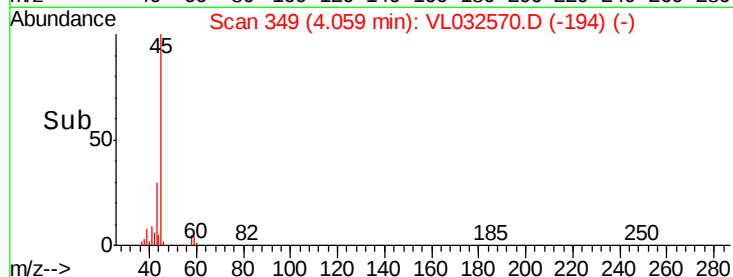
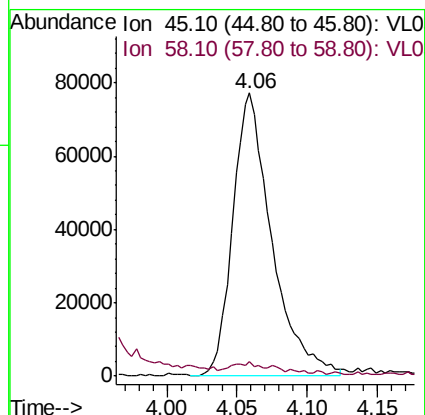
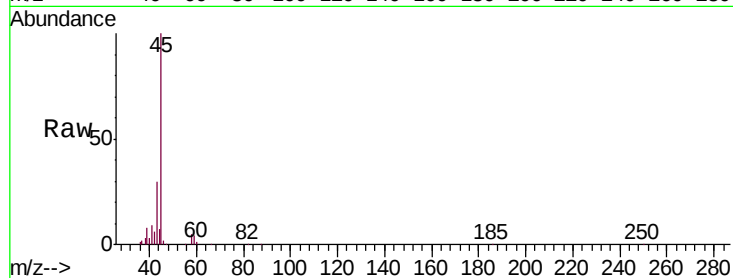
FIA-1DL

Tgt Ion: 45 Resp: 149622

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 0.506 ppbv

RT: 4.43 min Scan# 465

Delta R.T. -0.02 min

Lab File: VL032570.D

Acq: 28 Sep 2018 4:42

Tgt Ion: 84 Resp: 29241

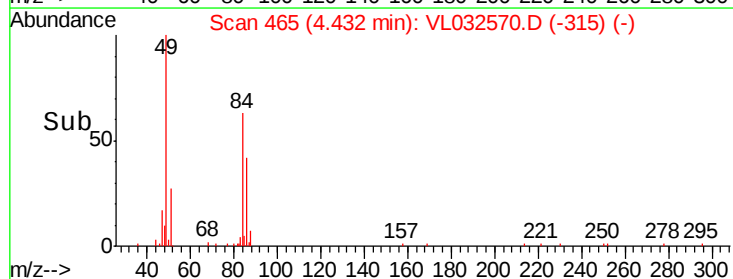
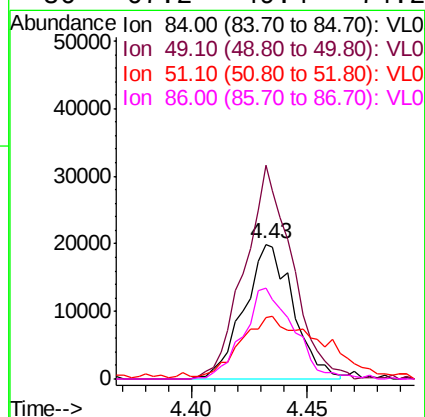
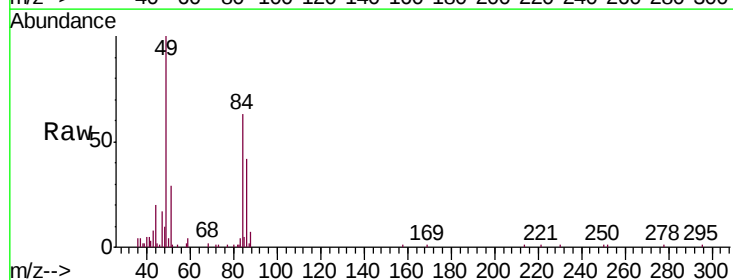
Ion Ratio Lower Upper

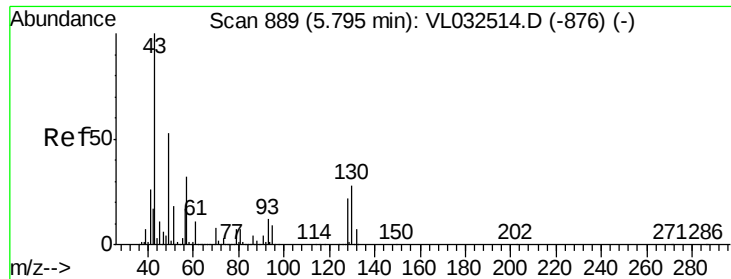
84 100

49 158.9 119.1 178.7

51 43.8 35.2 52.8

86 67.2 49.4 74.2

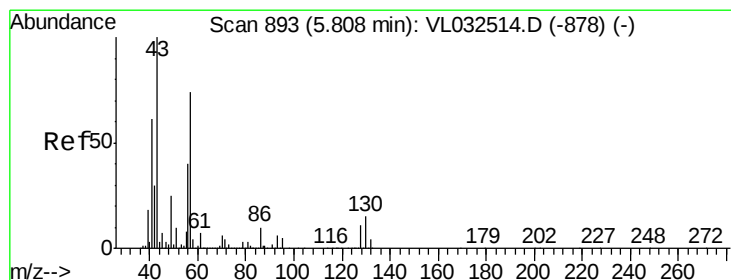
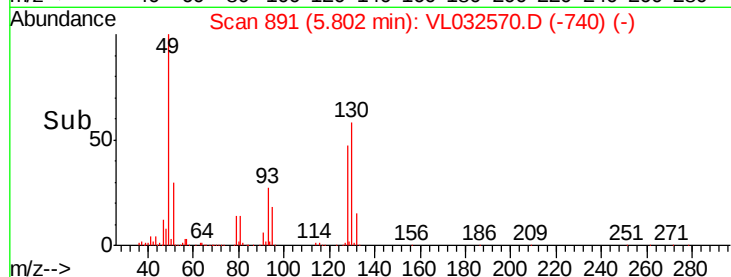
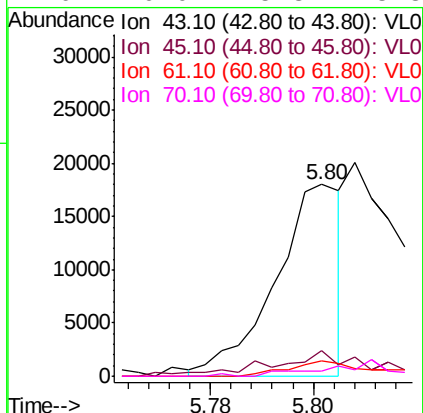
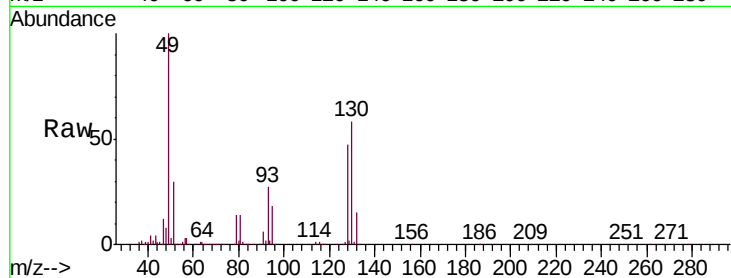




#25
Ethyl Acetate
Concen: 0.056 ppbv
RT: 5.80 min Scan# 891
Delta R.T. -0.01 min
Lab File: VL032570.D
Acq: 28 Sep 2018 4:42

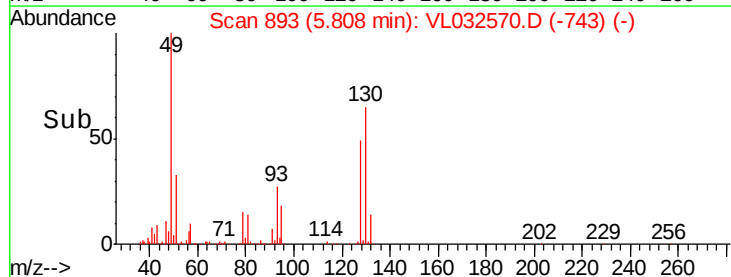
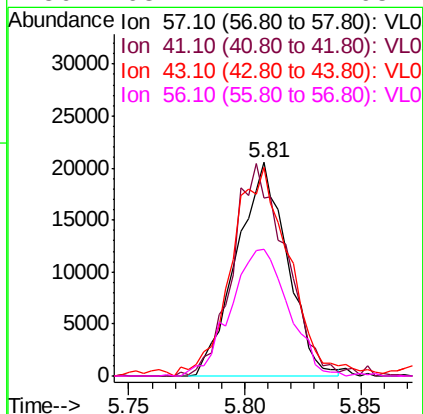
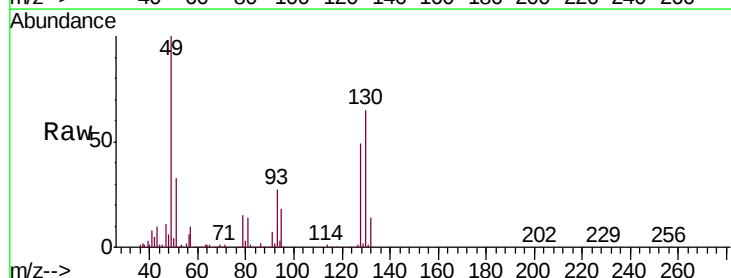
Instrument :
MSVOA_L
ClientSampleId :
FIA-1DL

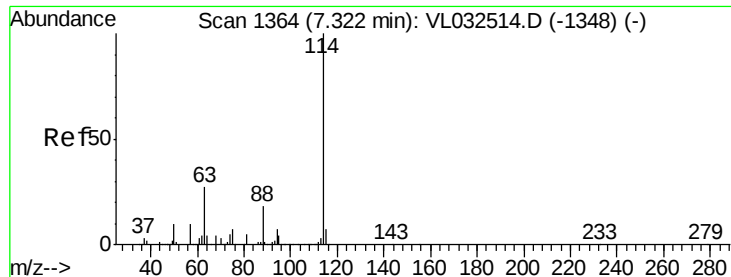
Tgt Ion:	43	Resp:	16103
Ion	Ratio	Lower	Upper
43	100		
45	19.4	8.0	12.0#
61	10.8	7.6	11.4
70	0.0	5.8	8.8#



#26
Hexane
Concen: 0.238 ppbv
RT: 5.81 min Scan# 893
Delta R.T. -0.02 min
Lab File: VL032570.D
Acq: 28 Sep 2018 4:42

Tgt Ion:	57	Resp:	31107
Ion	Ratio	Lower	Upper
57	100		
41	106.3	69.0	103.4#
43	114.8	172.1	258.1#
56	68.4	42.2	63.2#

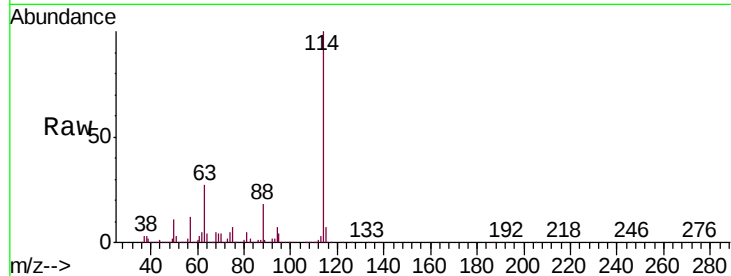




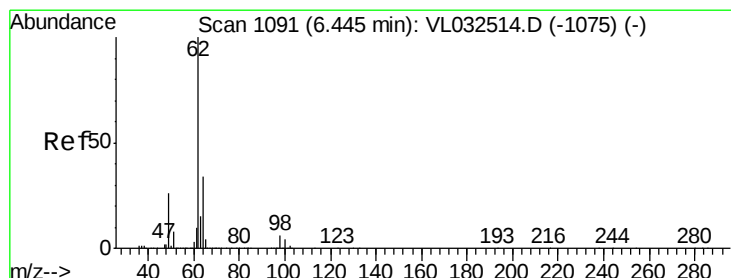
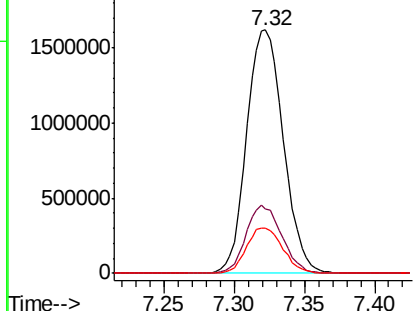
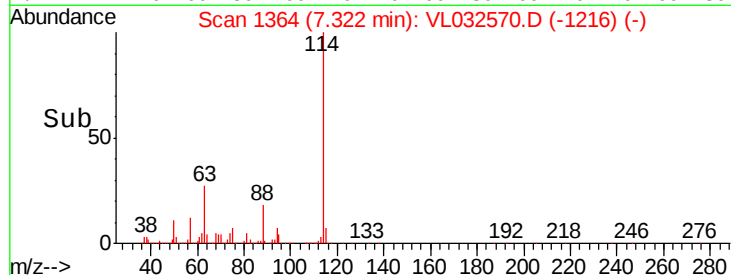
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1364
 Delta R.T. -0.02 min
 Lab File: VL032570.D
 Acq: 28 Sep 2018 4:42

Instrument :
 MSVOA_L
 ClientSampleId :
 FIA-1DL

Tgt Ion:114 Resp: 2950411
 Ion Ratio Lower Upper
 114 100
 63 27.4 22.2 33.4
 88 18.7 15.0 22.4

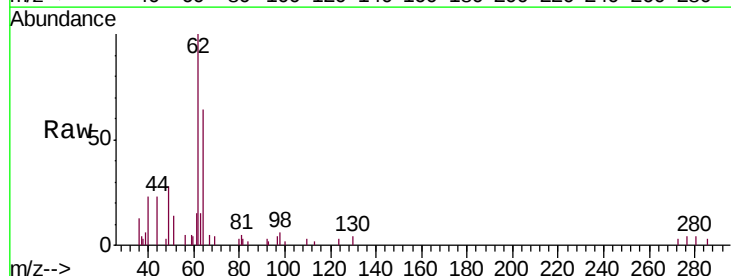


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

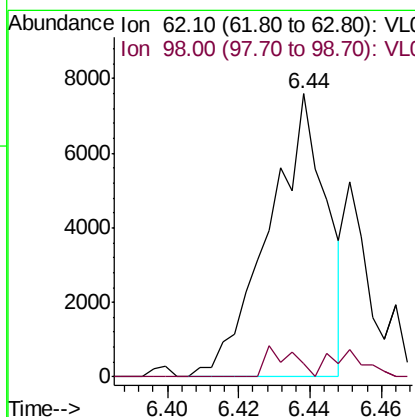
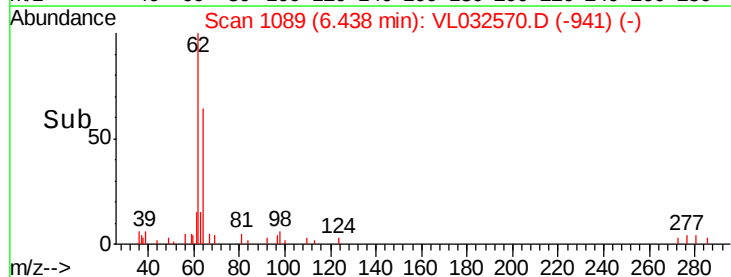


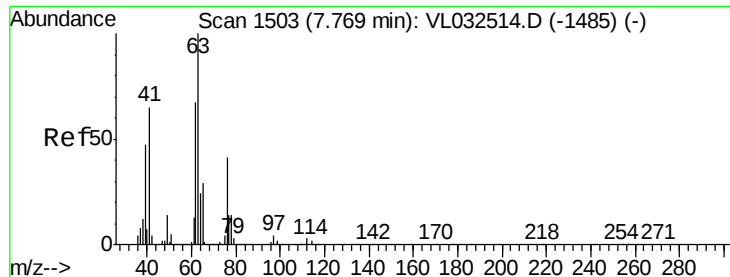
#37
 1,2-Dichloroethane
 Concen: 0.059 ppbv
 RT: 6.44 min Scan# 1089
 Delta R.T. -0.02 min
 Lab File: VL032570.D
 Acq: 28 Sep 2018 4:42

Tgt Ion: 62 Resp: 8513
 Ion Ratio Lower Upper
 62 100
 98 11.3 5.0 7.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0
 Ion 98.00 (97.70 to 98.70): VL0

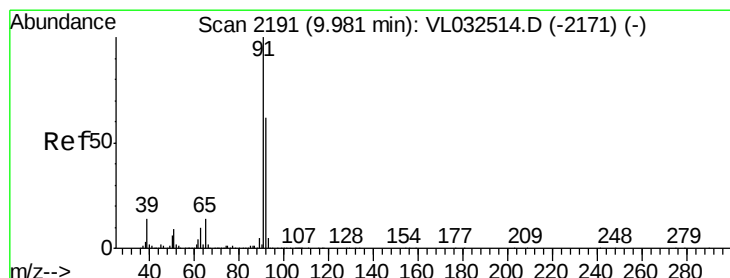
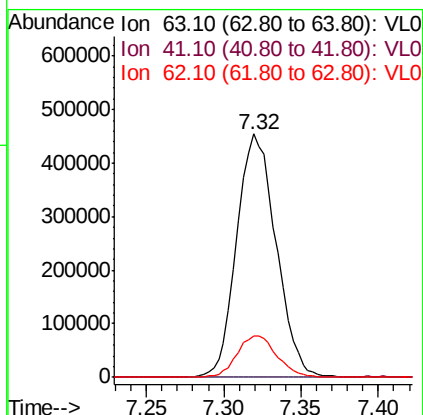
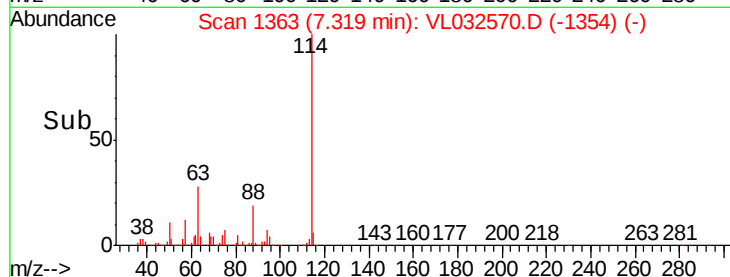
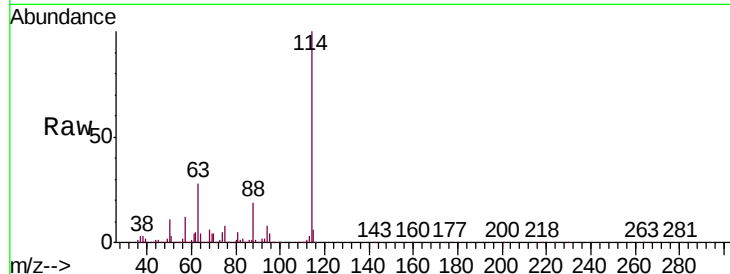




#39
 1,2-Dichloropropane
 Concen: 7.485 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.47 min
 Lab File: VL032570.D
 Acq: 28 Sep 2018 4:42

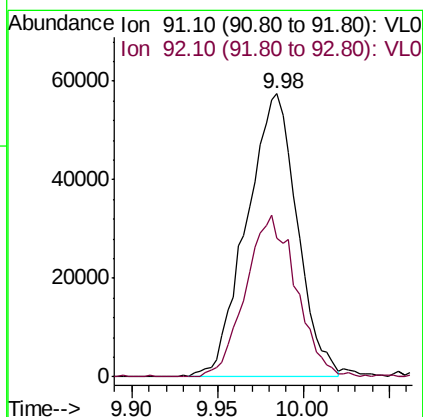
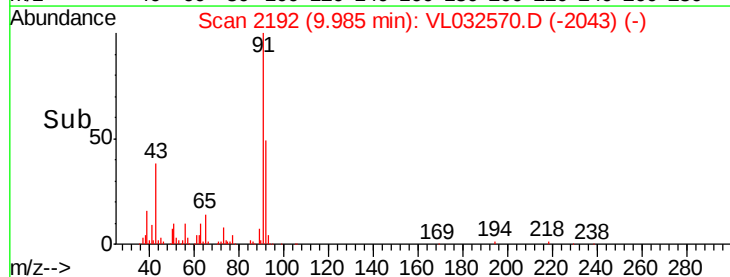
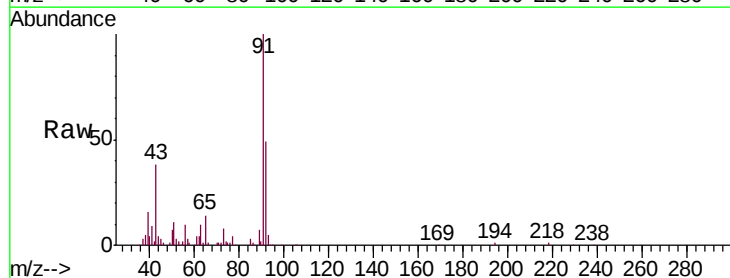
Instrument :
 MSVOA_L
 ClientSampleId :
 FIA-1DL

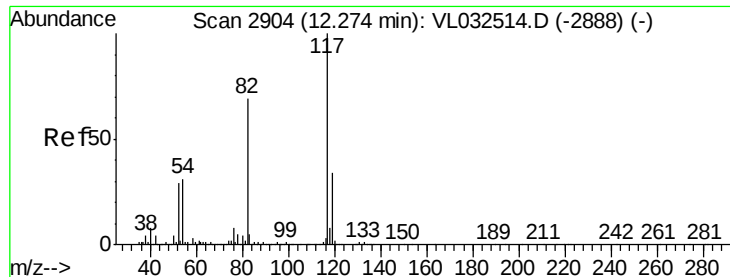
Tgt Ion: 63 Resp: 804226
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.4 83.0#
 62 17.1 55.4 83.0#



#53
 Toluene
 Concen: 0.404 ppbv
 RT: 9.98 min Scan# 2192
 Delta R.T. -0.02 min
 Lab File: VL032570.D
 Acq: 28 Sep 2018 4:42

Tgt Ion: 91 Resp: 117393
 Ion Ratio Lower Upper
 91 100
 92 57.1 48.1 72.1

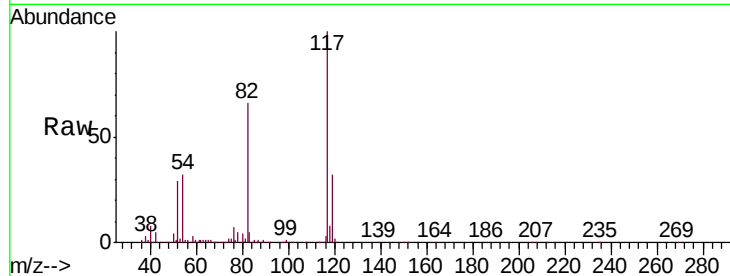




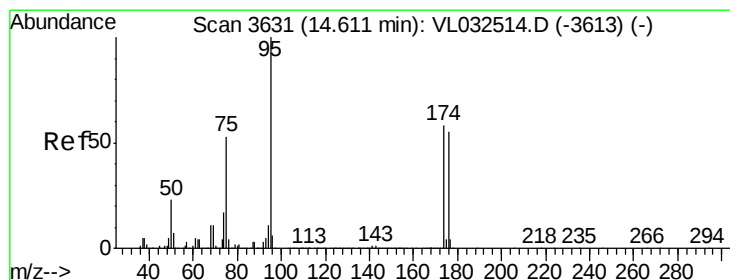
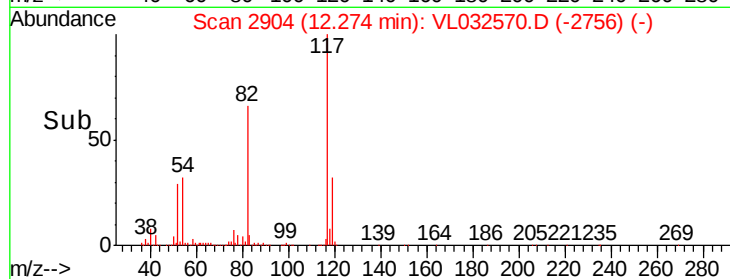
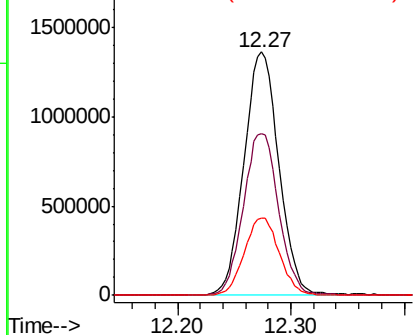
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.02 min
Lab File: VL032570.D
Acq: 28 Sep 2018 4:42

Instrument :
MSVOA_L
ClientSampleId :
FIA-1DL

Tgt Ion: 117 Resp: 2921449
Ion Ratio Lower Upper
117 100
82 67.4 53.0 79.6
119 32.3 45.9 68.9#

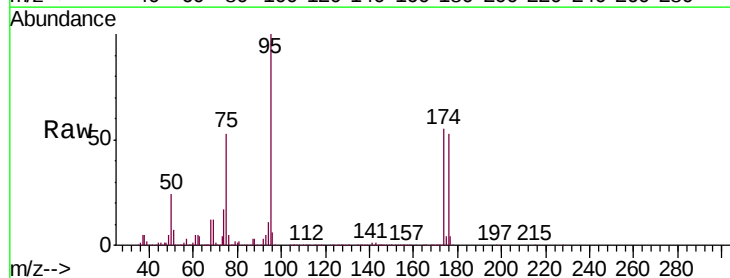


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.060 ppbv
RT: 14.61 min Scan# 3630
Delta R.T. -0.03 min
Lab File: VL032570.D
Acq: 28 Sep 2018 4:42

Tgt Ion: 95 Resp: 2216389
Ion Ratio Lower Upper
95 100
174 57.4 46.3 69.5
175 4.1 3.4 5.0



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

