

Data File : VL032763.D
Acq On : 14 Nov 2018 17:45
Operator : SY/AP
Sample : J5896-02DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Quant Time: Nov 15 04:57:12 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	1559559	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3849542	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3495540	10.00	ppbv	-0.01

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 2624394 10.04 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 100.40%

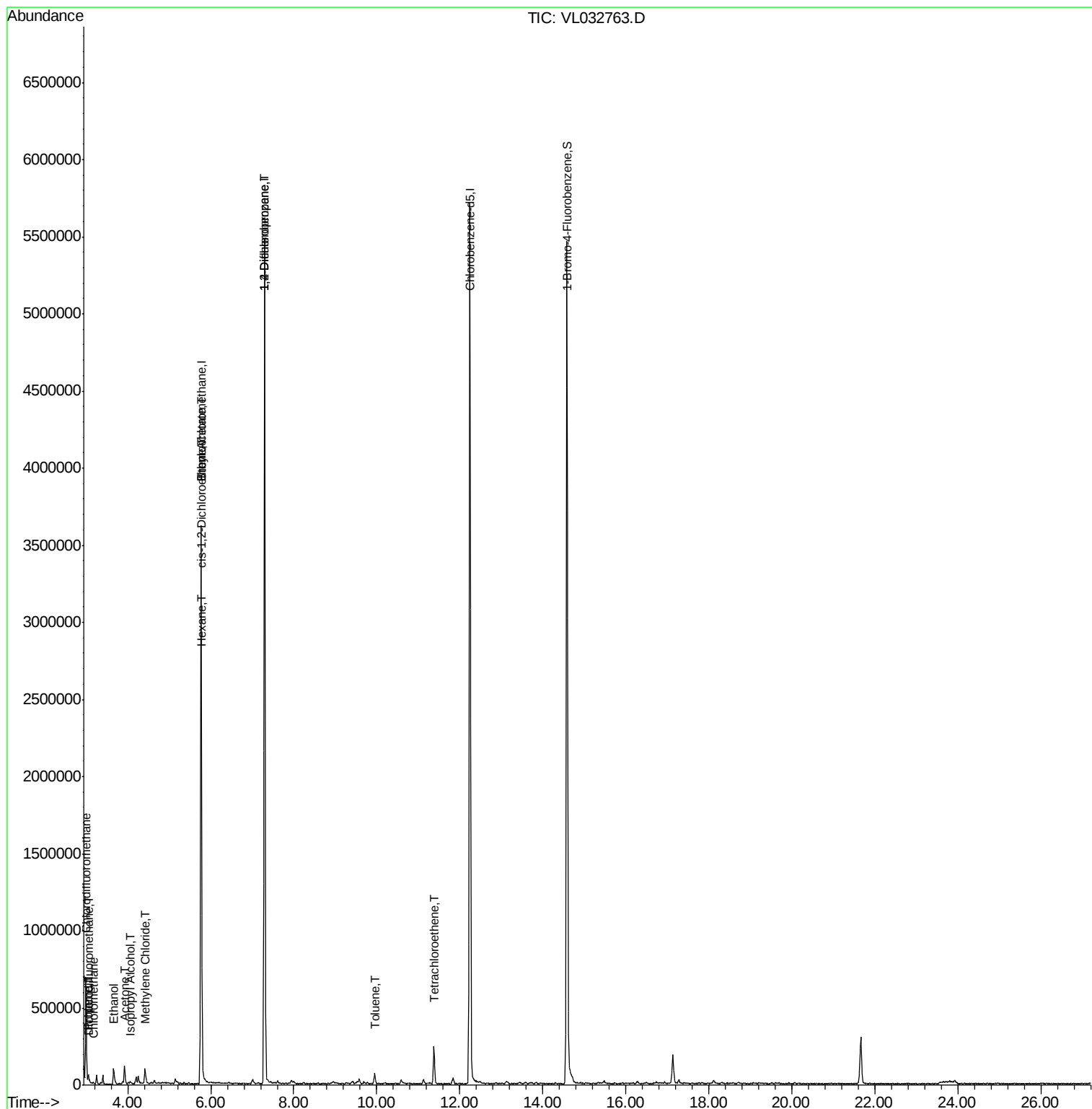
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	12422	0.055	ppbv	90
3) Chlorodifluoromethane	2.99	51	380248	3.075	ppbv #	57
4) Chloromethane	3.18	50	4011	0.059	ppbv #	78
9) Propene	3.05	41	6451	0.130	ppbv #	54
13) Ethanol	3.66	45	104707	6.461	ppbv	98
15) Acetone	3.92	43	107616	0.756	ppbv	99
19) Isopropyl Alcohol	4.06	45	9942	0.105	ppbv #	95
20) Methylene Chloride	4.41	84	29845	0.405	ppbv #	80
25) Ethyl Acetate	5.78	43	239590	0.722	ppbv #	93
26) Hexane	5.79	57	21541	0.146	ppbv #	1
31) cis-1,2-Dichloroethene	5.78	61	23829	0.160	ppbv #	27
39) 1,2-Dichloropropane	7.29	63	993291	8.505	ppbv #	23
52) Tetrachloroethene	11.38	164	55332	0.519	ppbv #	87
53) Toluene	9.95	91	36534	0.114	ppbv	91

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

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MSVOA_L

ClientSampleID :

IA1DL

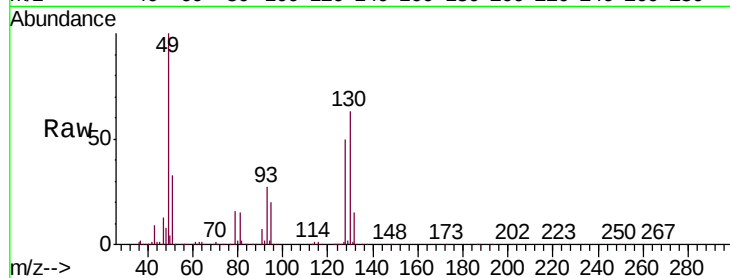
Tgt Ion: 49 Resp: 1559559

Ion Ratio Lower Upper

49 100

128 50.7 24.9 74.6

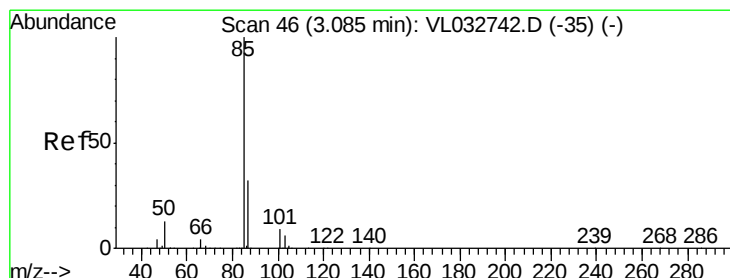
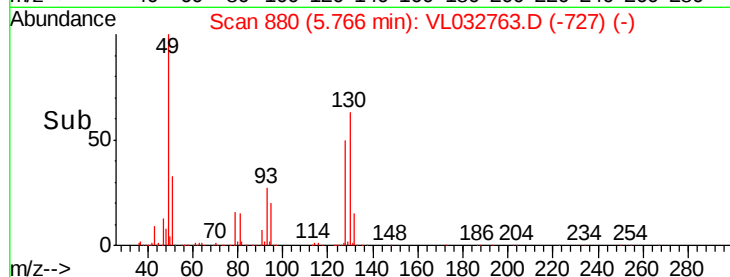
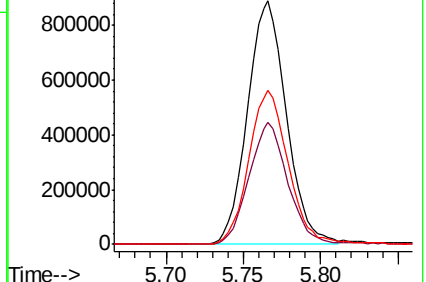
130 64.9 31.4 94.2



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: 0.055 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.01 min

Lab File: VL032763.D

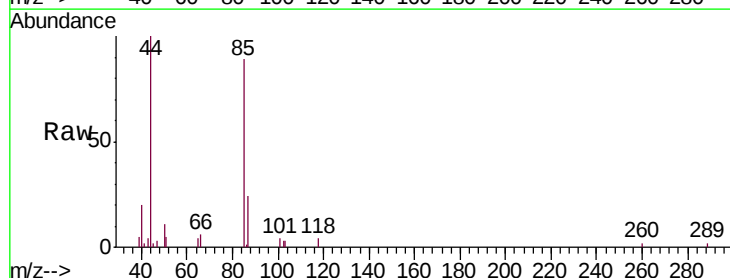
Acq: 14 Nov 2018 17:45

Tgt Ion: 85 Resp: 12422

Ion Ratio Lower Upper

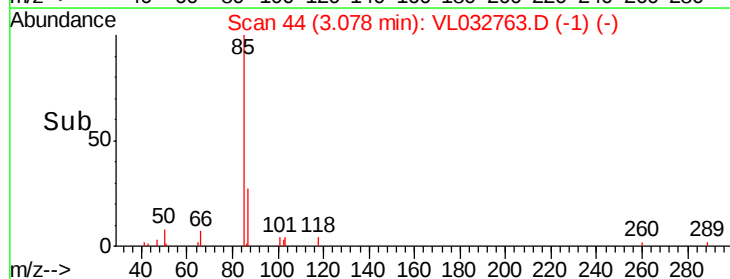
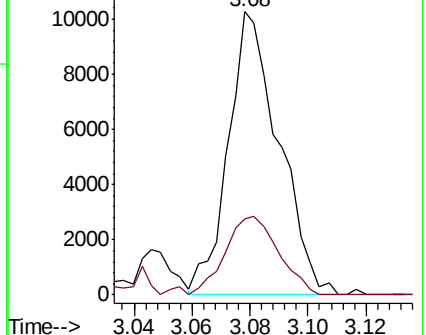
85 100

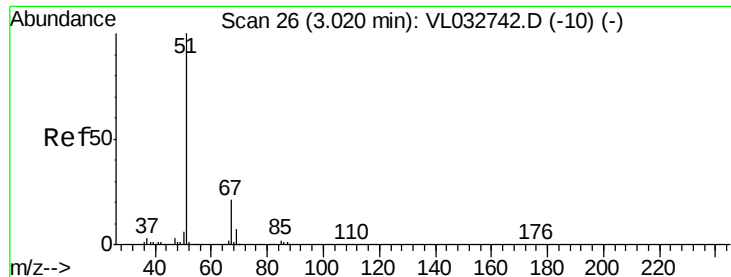
87 27.0 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 3.075 ppbv

RT: 2.99 min Scan# 18

Delta R.T. -0.03 min

Lab File: VL032763.D

Acq: 14 Nov 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

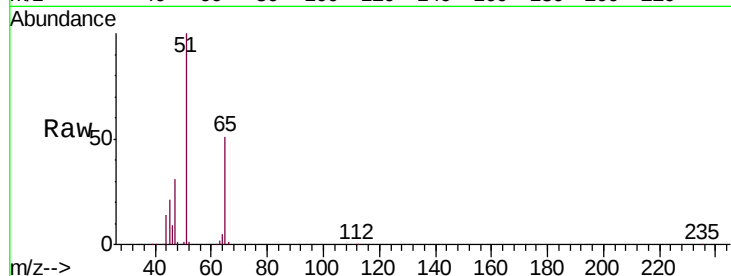
IA1DL

Tgt Ion: 51 Resp: 380248

Ion Ratio Lower Upper

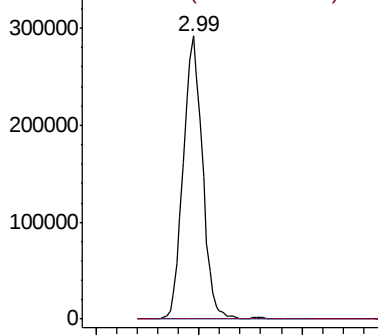
51 100

67 0.4 16.1 24.1#

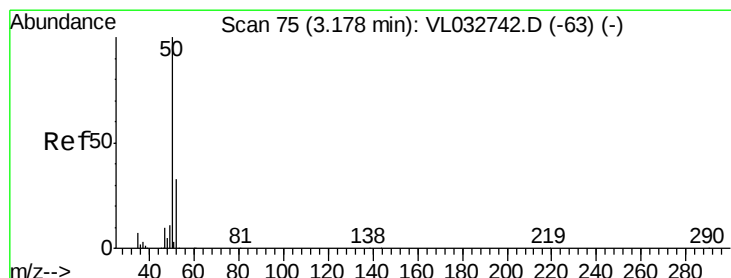
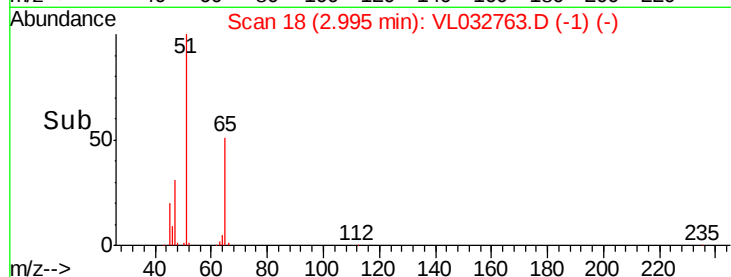


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time--> 2.90 3.00 3.10



#4

Chloromethane

Concen: 0.059 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032763.D

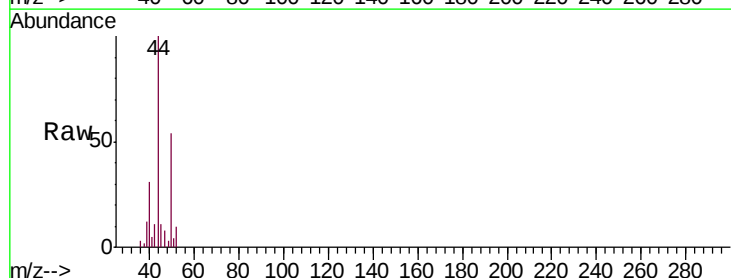
Acq: 14 Nov 2018 17:45

Tgt Ion: 50 Resp: 4011

Ion Ratio Lower Upper

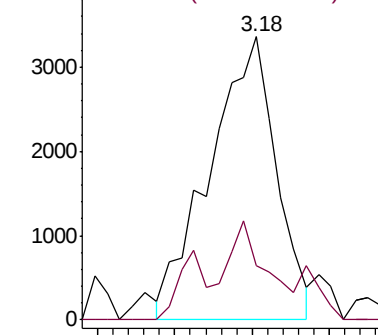
50 100

52 20.5 26.6 40.0#

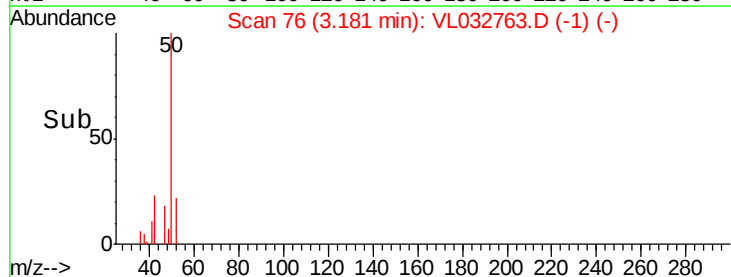


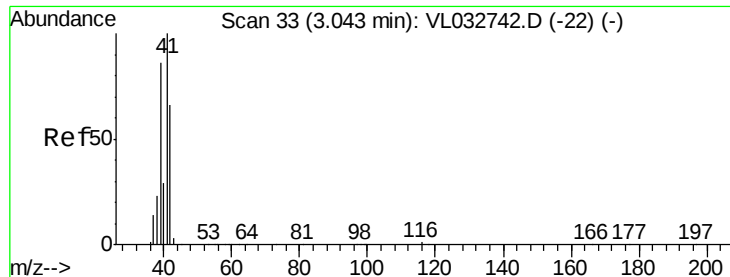
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time--> 3.14 3.16 3.18 3.20





#9

Propene

Concen: 0.130 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032763.D

Acq: 14 Nov 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

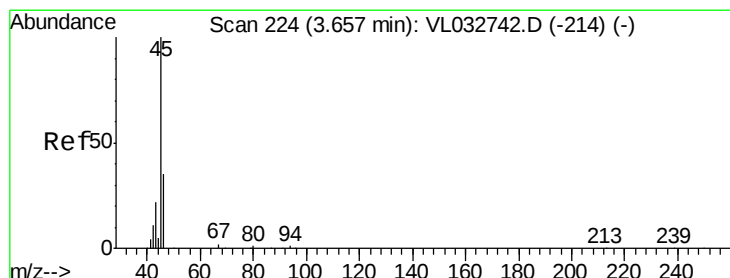
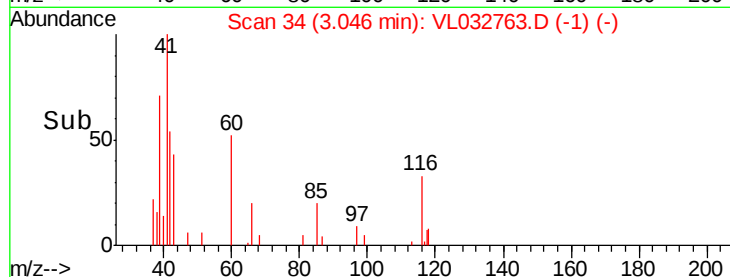
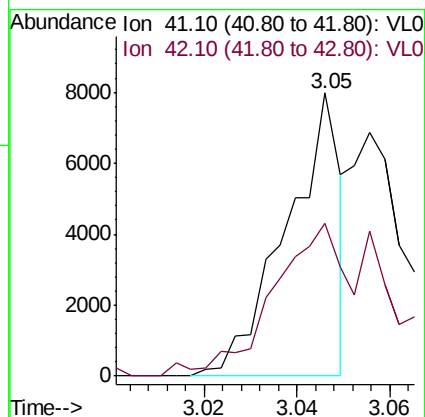
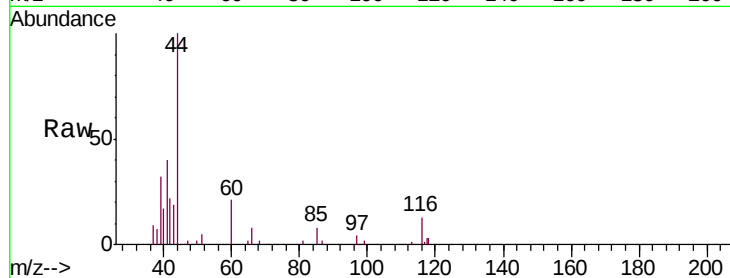
IA1DL

Tgt Ion: 41 Resp: 6451

Ion Ratio Lower Upper

41 100

42 106.4 55.0 82.6#



#13

Ethanol

Concen: 6.461 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.00 min

Lab File: VL032763.D

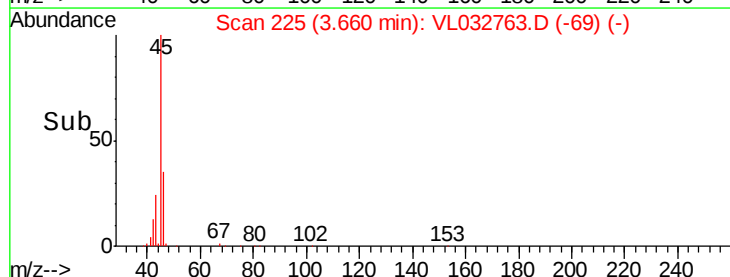
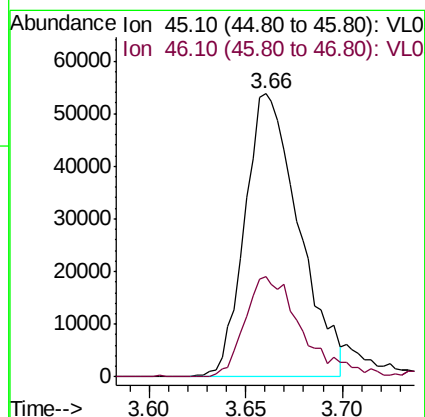
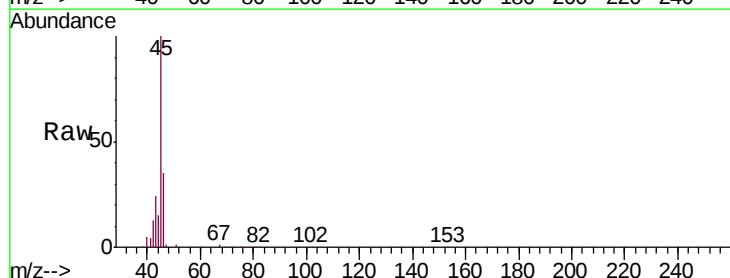
Acq: 14 Nov 2018 17:45

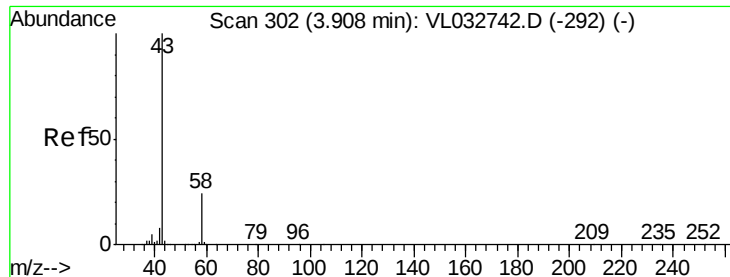
Tgt Ion: 45 Resp: 104707

Ion Ratio Lower Upper

45 100

46 37.3 14.5 57.9





#15

Acetone

Concen: 0.756 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.01 min

Lab File: VL032763.D

Acq: 14 Nov 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

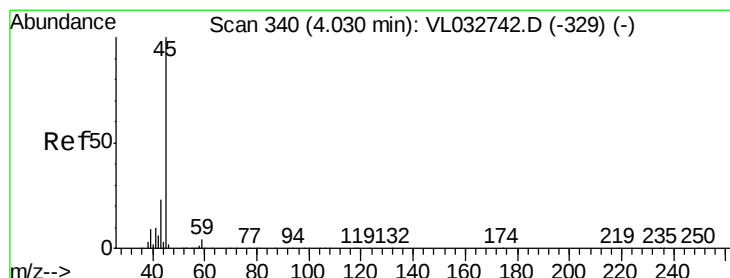
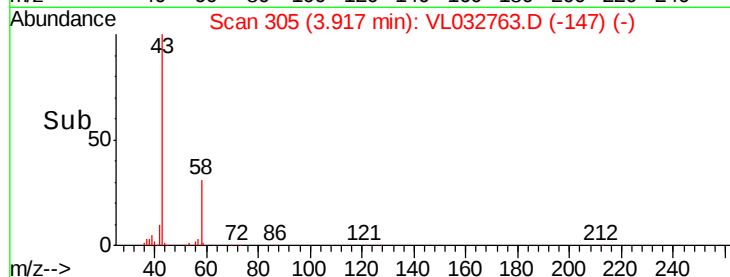
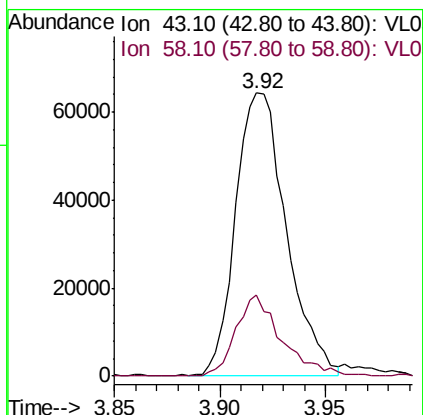
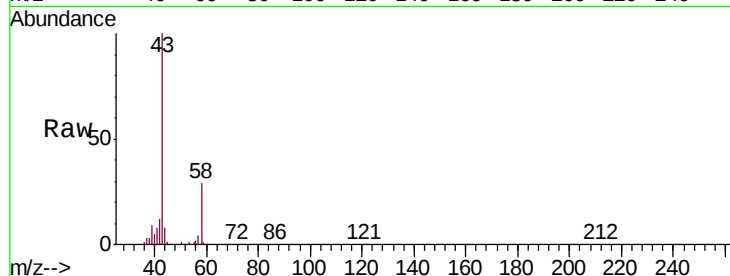
IA1DL

Tgt Ion: 43 Resp: 107616

Ion Ratio Lower Upper

43 100

58 26.0 21.1 31.7



#19

Isopropyl Alcohol

Concen: 0.105 ppbv

RT: 4.06 min Scan# 349

Delta R.T. 0.03 min

Lab File: VL032763.D

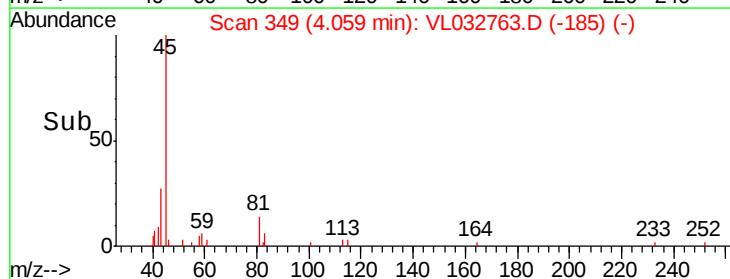
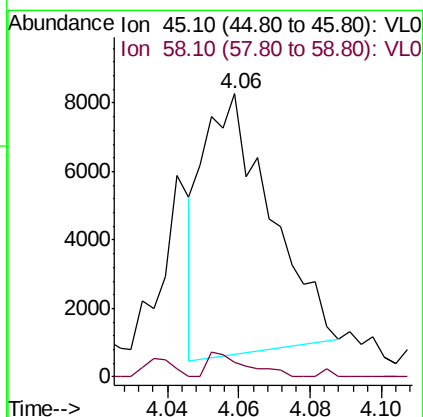
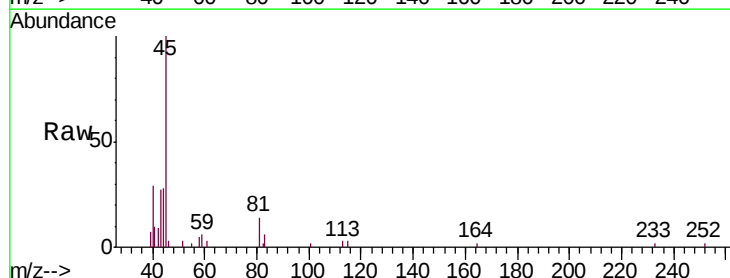
Acq: 14 Nov 2018 17:45

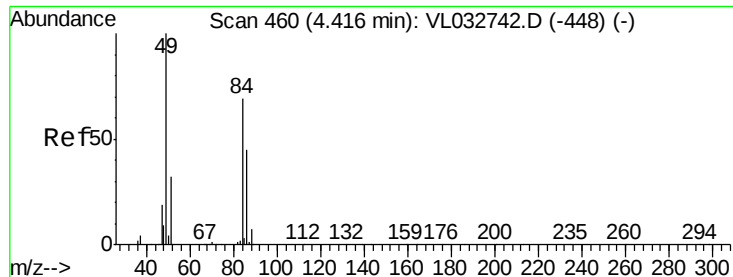
Tgt Ion: 45 Resp: 9942

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#

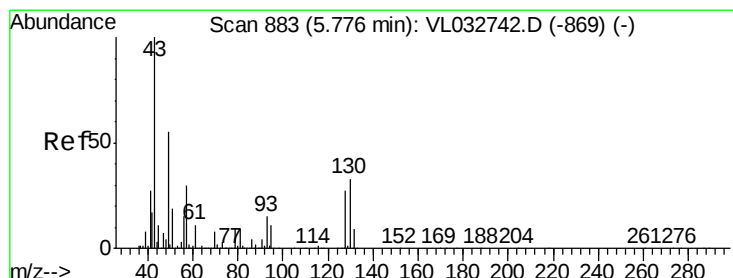
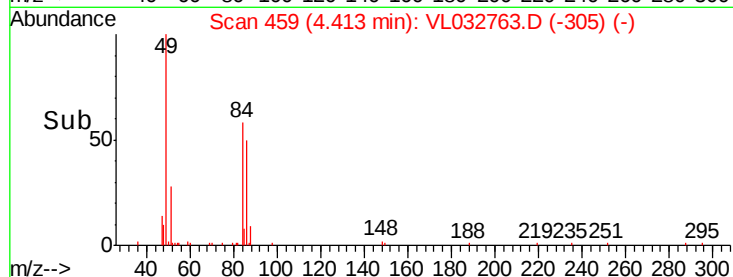
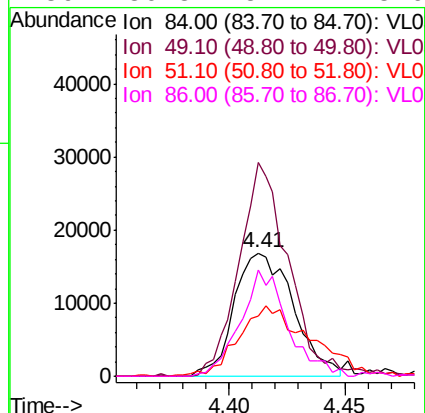
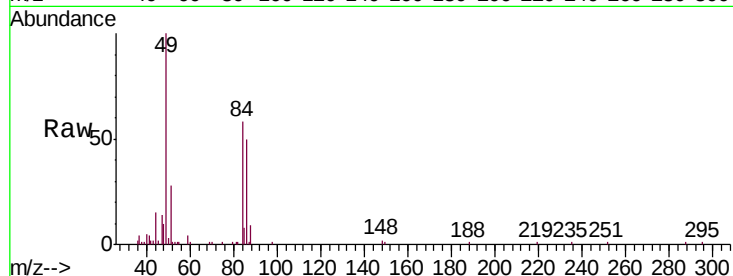




#20
Methylene Chloride
Concen: 0.405 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL032763.D
Acq: 14 Nov 2018 17:45

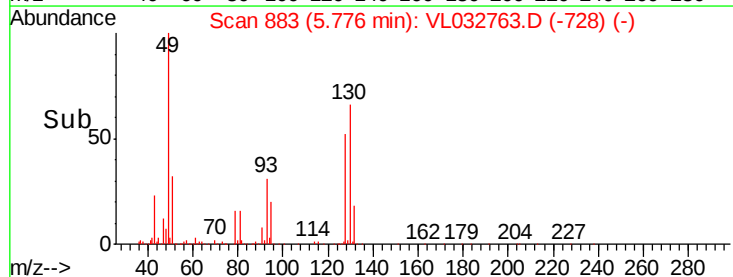
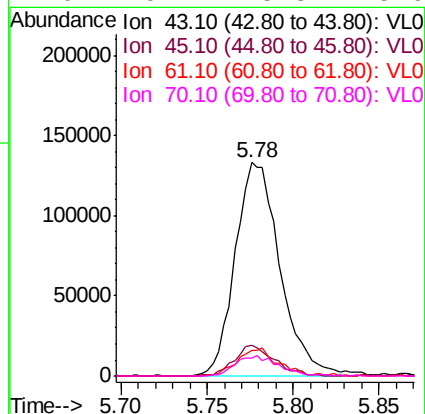
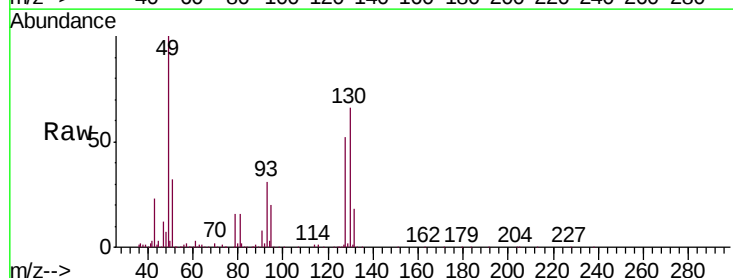
Instrument :
MSVOA_L
ClientSampled :
IA1DL

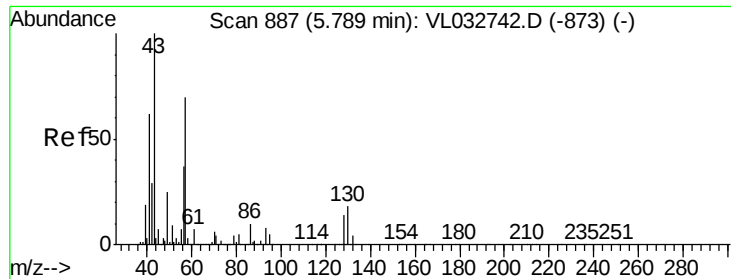
Tgt Ion:	84	Resp:	29845
Ion	Ratio	Lower	Upper
84	100		
49	173.5	115.8	173.6
51	46.7	36.9	55.3
86	86.8	52.4	78.6#



#25
Ethyl Acetate
Concen: 0.722 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL032763.D
Acq: 14 Nov 2018 17:45

Tgt Ion:	43	Resp:	239590
Ion	Ratio	Lower	Upper
43	100		
45	13.1	7.9	11.9#
61	12.2	7.8	11.6#
70	9.2	5.8	8.6#

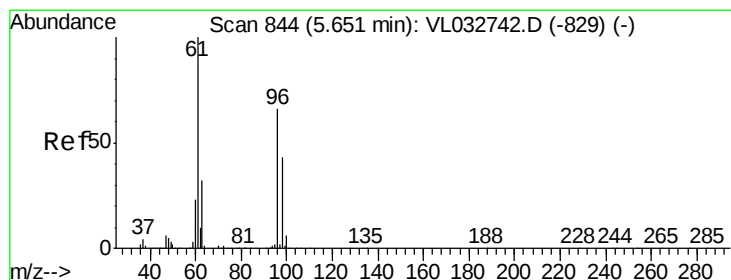
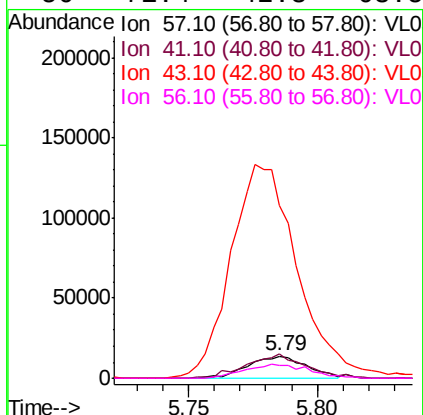
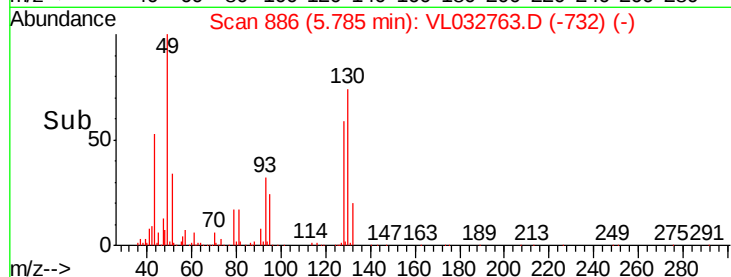
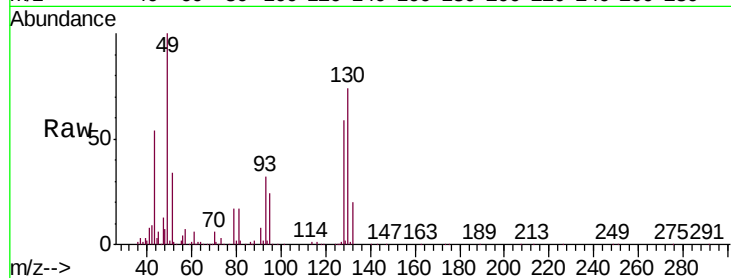




#26
Hexane
Concen: 0.146 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032763.D
Acq: 14 Nov 2018 17:45

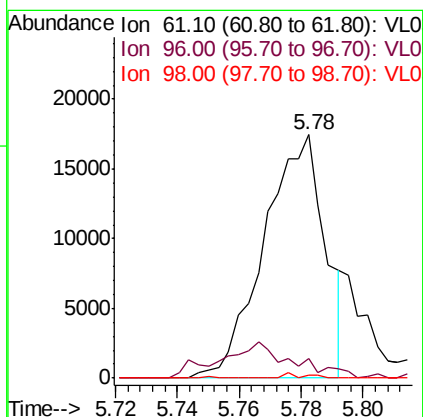
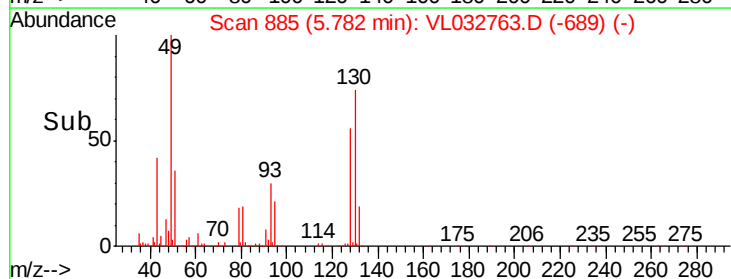
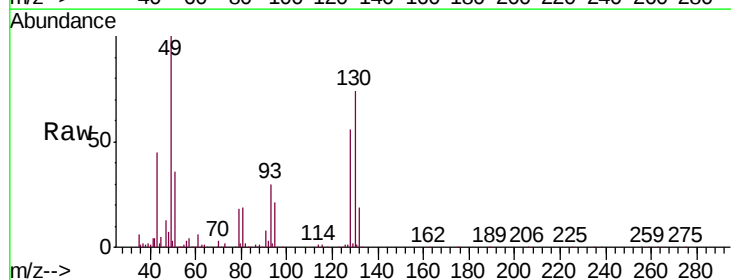
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

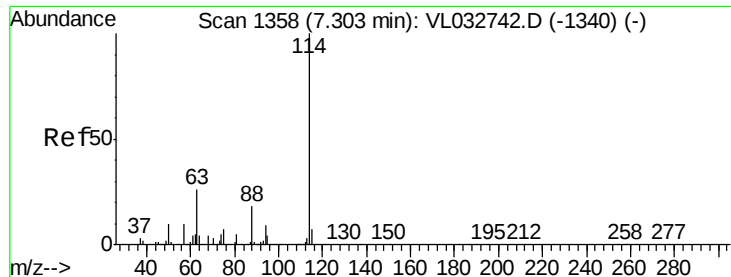
Tgt Ion: 57 Resp: 21541
Ion Ratio Lower Upper
57 100
41 114.3 70.3 105.5#
43 1145.9 174.0 261.0#
56 71.4 42.3 63.5#



#31
cis-1,2-Dichloroethene
Concen: 0.160 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.13 min
Lab File: VL032763.D
Acq: 14 Nov 2018 17:45

Tgt Ion: 61 Resp: 23829
Ion Ratio Lower Upper
61 100
96 4.3 53.2 79.8#
98 1.4 34.4 51.6#

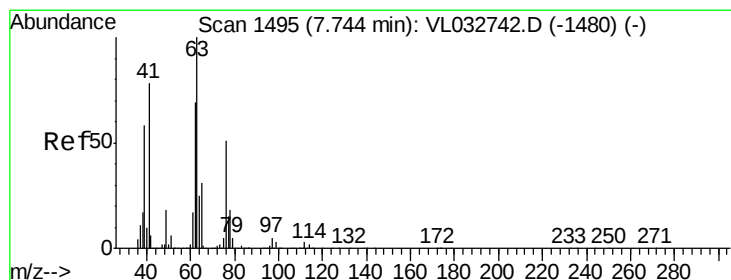
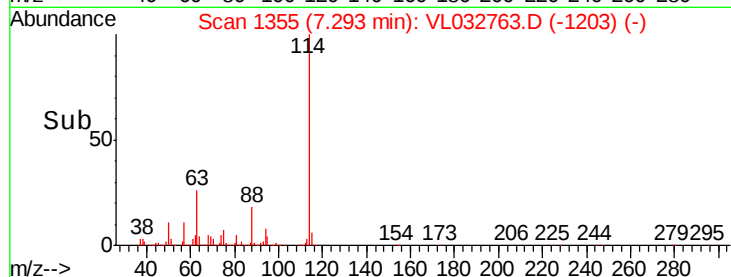
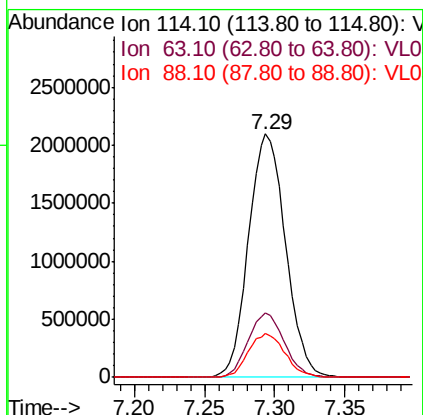
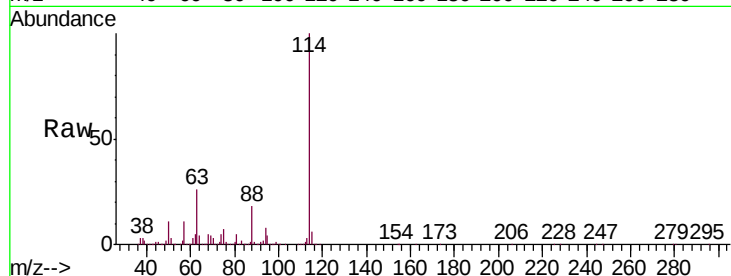




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL032763.D
 Acq: 14 Nov 2018 17:45

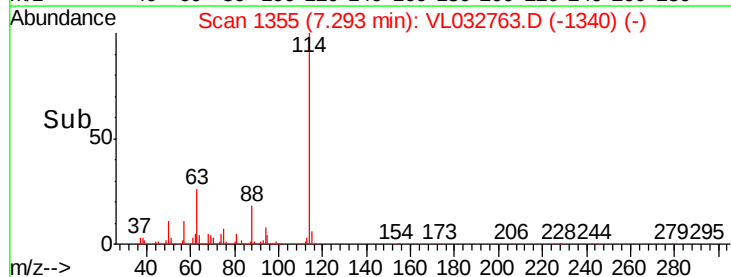
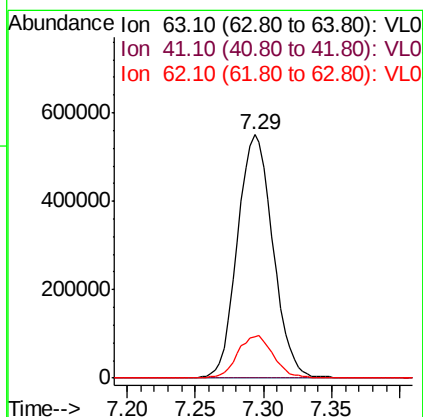
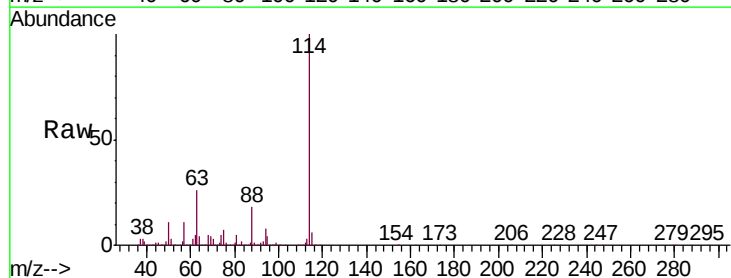
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

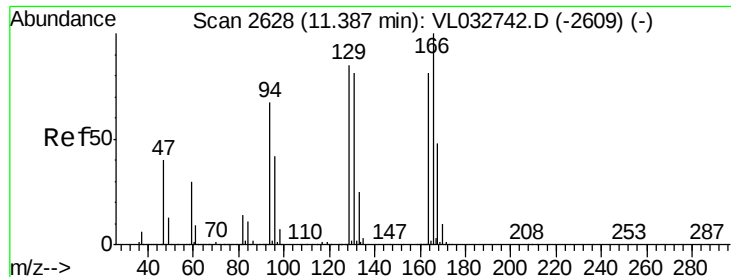
Tgt Ion: 114 Resp: 3849542
 Ion Ratio Lower Upper
 114 100
 63 26.0 20.9 31.3
 88 17.9 14.4 21.6



#39
 1,2-Dichloropropane
 Concen: 8.505 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.45 min
 Lab File: VL032763.D
 Acq: 14 Nov 2018 17:45

Tgt Ion: 63 Resp: 993291
 Ion Ratio Lower Upper
 63 100
 41 0.0 62.0 93.0#
 62 17.2 55.4 83.2#





#52

Tetrachloroethene

Concen: 0.519 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. -0.01 min

Lab File: VL032763.D

Acq: 14 Nov 2018 17:45

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

Tgt Ion:164 Resp: 55332

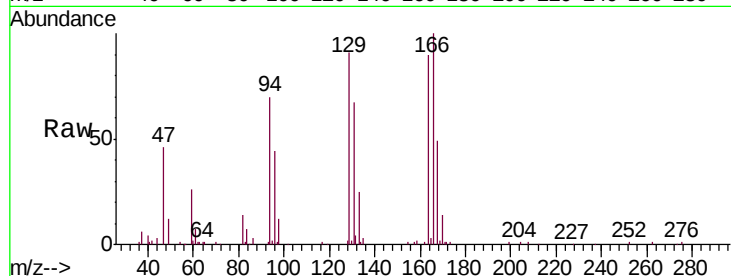
Ion Ratio Lower Upper

164 100

166 108.7 99.3 148.9

129 102.6 83.9 125.9

131 77.3 80.8 121.2#



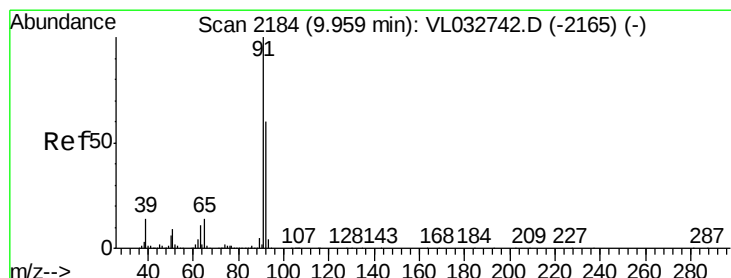
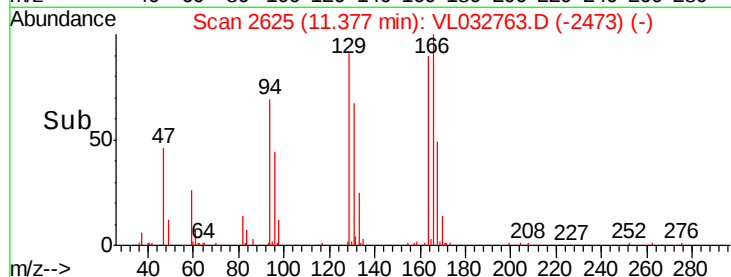
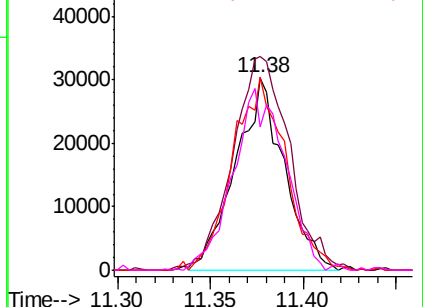
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.114 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL032763.D

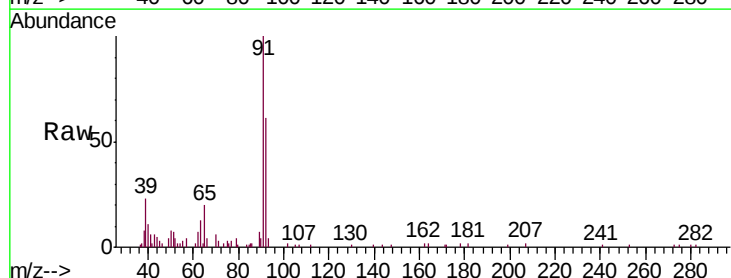
Acq: 14 Nov 2018 17:45

Tgt Ion: 91 Resp: 36534

Ion Ratio Lower Upper

91 100

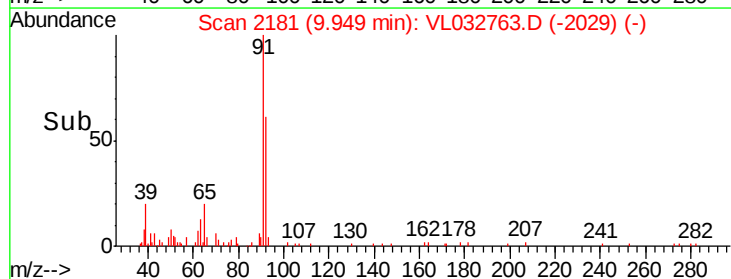
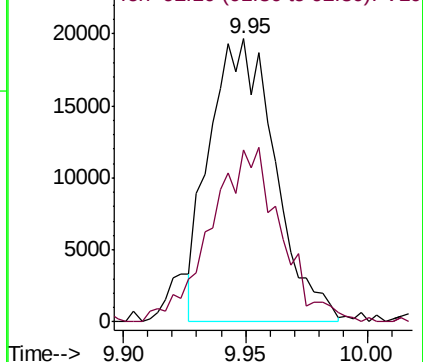
92 66.3 47.9 71.9

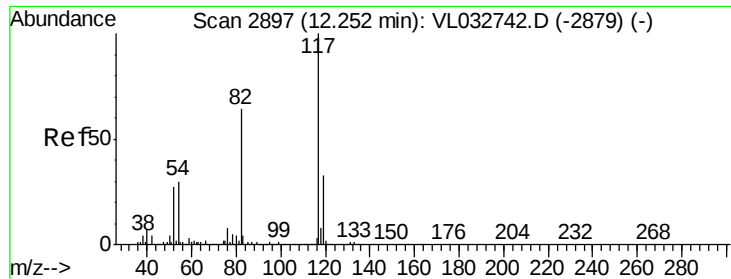


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

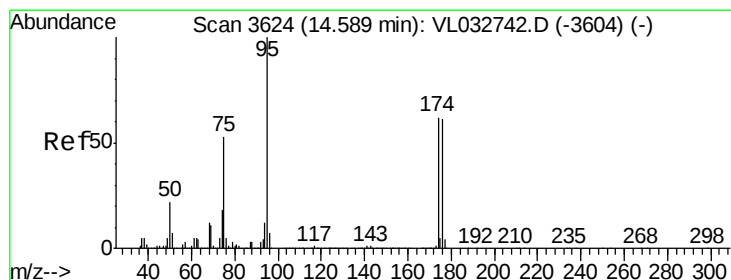
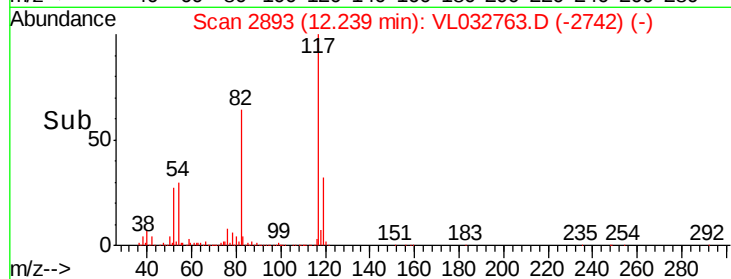
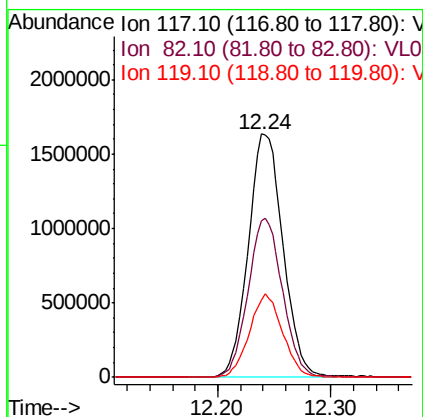
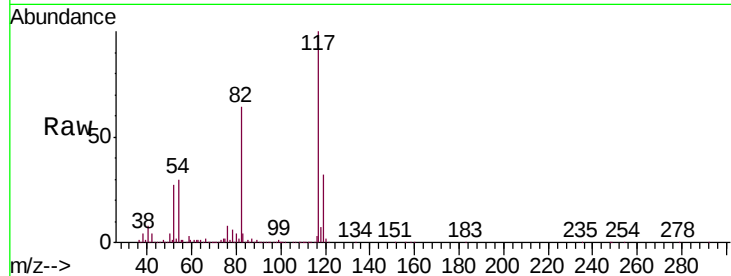




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL032763.D
Acq: 14 Nov 2018 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tgt Ion: 117 Resp: 3495540
Ion Ratio Lower Upper
117 100
82 65.0 51.0 76.6
119 32.8 28.0 42.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.038 ppbv
RT: 14.58 min Scan# 3621
Delta R.T. -0.01 min
Lab File: VL032763.D
Acq: 14 Nov 2018 17:45

Tgt Ion: 95 Resp: 2624394
Ion Ratio Lower Upper
95 100
174 62.8 50.7 76.1
175 4.5 3.8 5.6

