

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033506.D
 Acq On : 29 Mar 2019 17:33
 Operator : SY/AP
 Sample : K2042-18DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 30 01:11:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	745241	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1738476	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1756391	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1370509	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

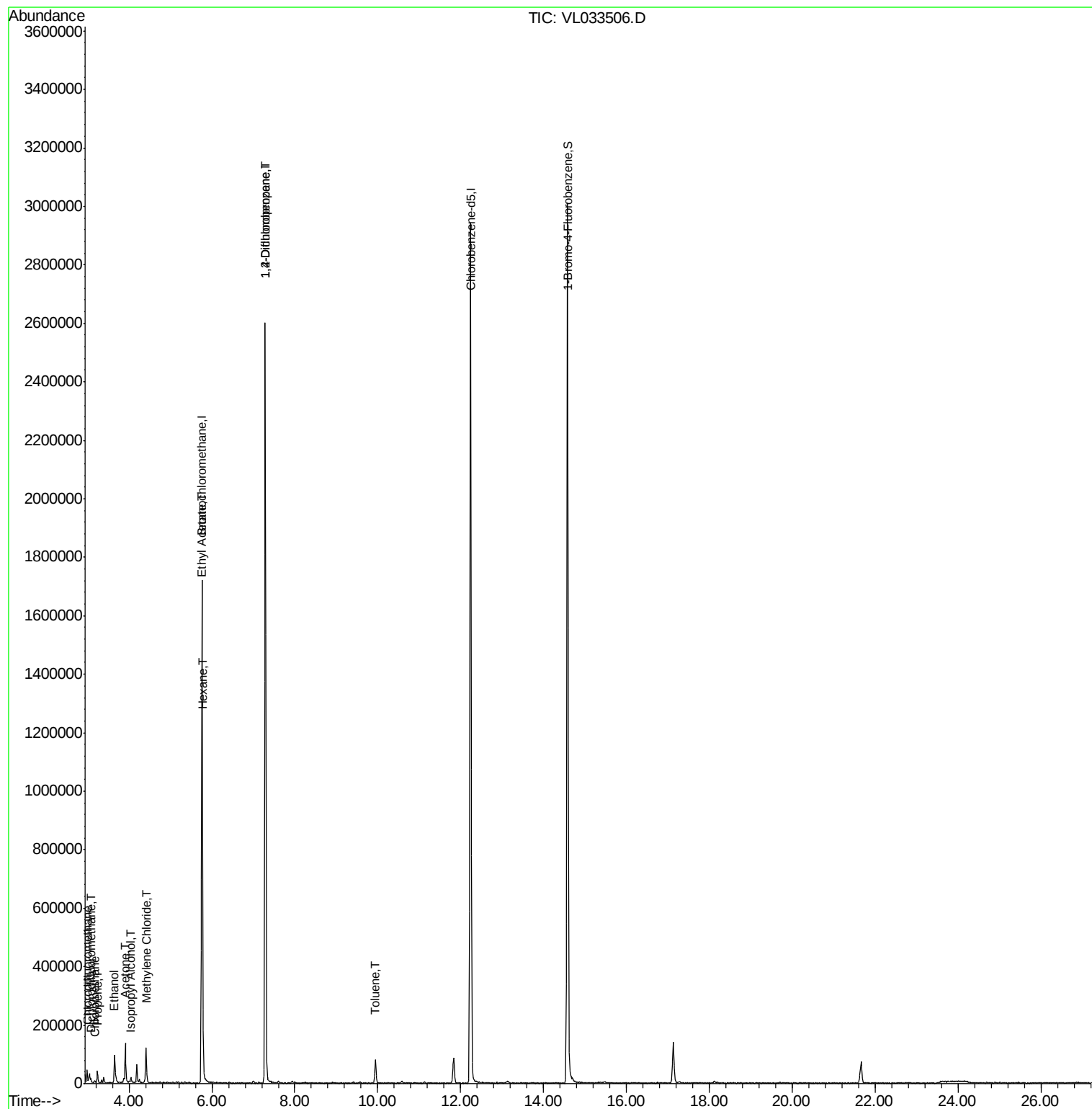
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	9492	0.09	ppbv	92
3) Chlorodifluoromethane	2.99	51	30190	0.35	ppbv #	63
4) Chloromethane	3.17	50	2762	0.06	ppbv #	82
9) Propene	3.24	41	9778	0.27	ppbv	84
13) Ethanol	3.65	45	91921	9.86	ppbv	70
15) Acetone	3.91	43	137771	1.54	ppbv	99
19) Isopropyl Alcohol	4.04	45	15363	0.27	ppbv #	1
20) Methylene Chloride	4.40	84	19530	0.51	ppbv	88
25) Ethyl Acetate	5.77	43	14263	0.09	ppbv #	79
26) Hexane	5.78	57	37799	0.51	ppbv #	41
39) 1,2-Dichloropropane	7.29	63	465334	8.14	ppbv #	24
53) Toluene	9.95	91	57155	0.34	ppbv	98

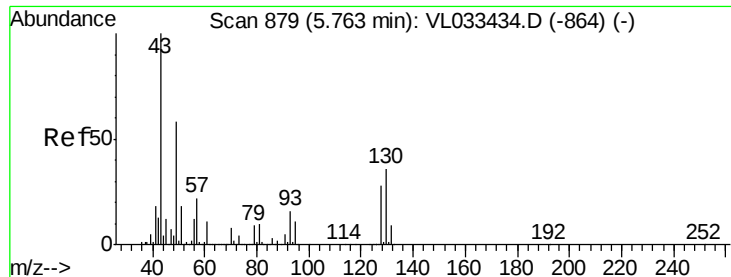
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
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QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033506.D

Acq: 29 Mar 2019 17:33

Instrument :
MSVOA_L
ClientSampleId :

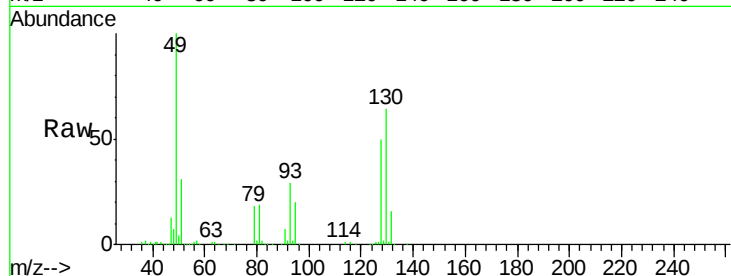
Tot Ion: 49 Resp: 745241

Ion	Ratio	Lower	Upper
49	100		
128	48.8	24.0	72.0
130	62.8	31.2	93.6

49 100

128 48.8 24.0 72.0

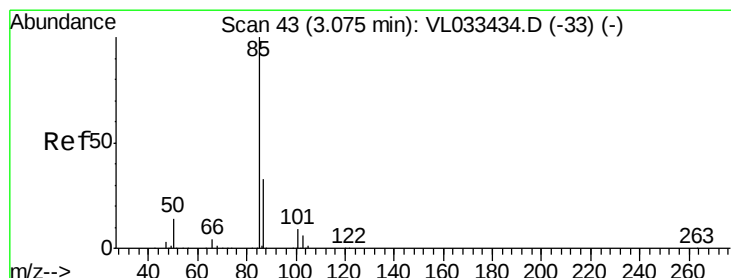
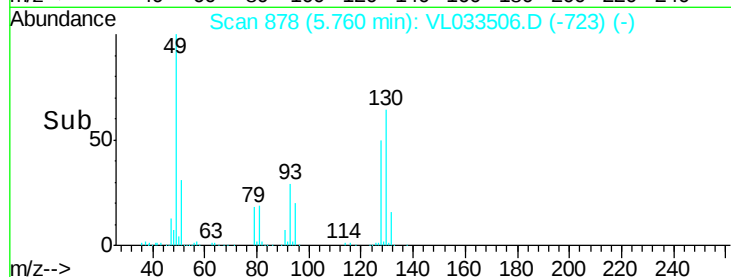
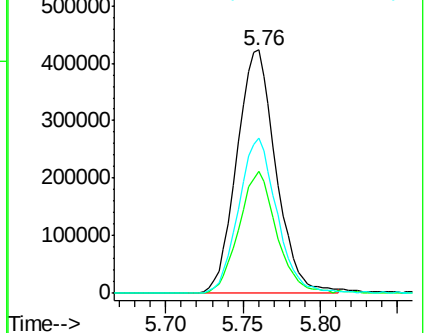
130 62.8 31.2 93.6



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: 0.09 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033506.D

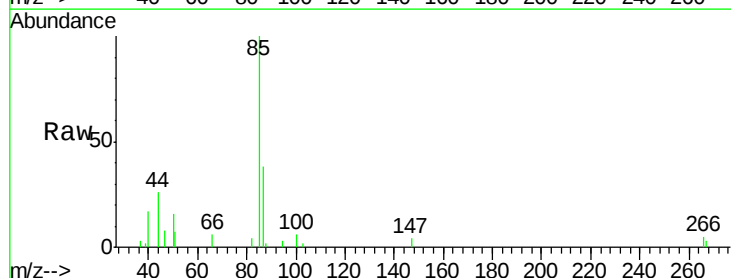
Acq: 29 Mar 2019 17:33

Tgt Ion: 85 Resp: 9492

Ion	Ratio	Lower	Upper
85	100		
87	37.7	26.7	40.1

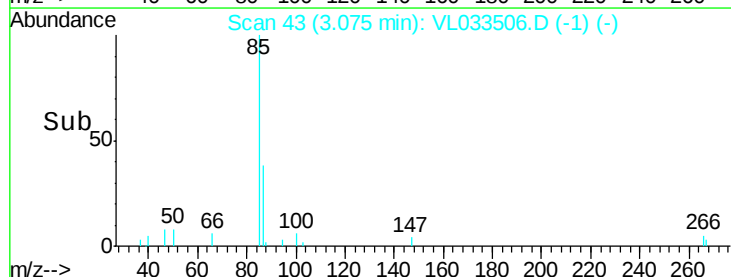
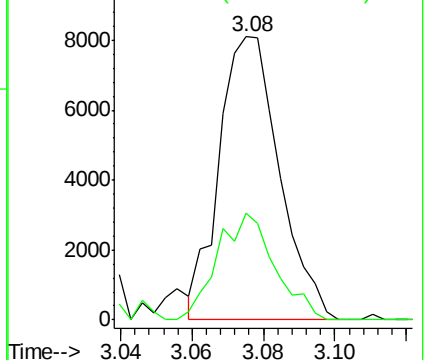
85 100

87 37.7 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.35 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.03 min

Lab File: VL033506.D

Acq: 29 Mar 2019 17:33

Instrument :

MSVOA_L

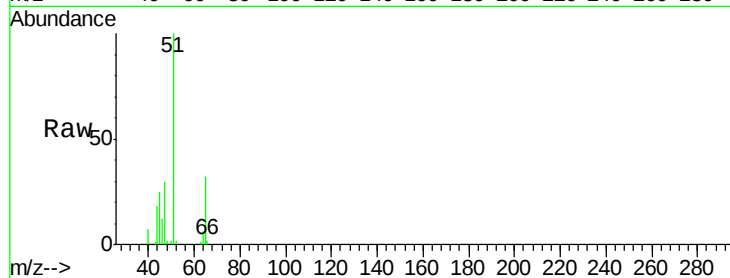
ClientSampled :

Tot Ion: 51 Resp: 30190

Ion Ratio Lower Upper

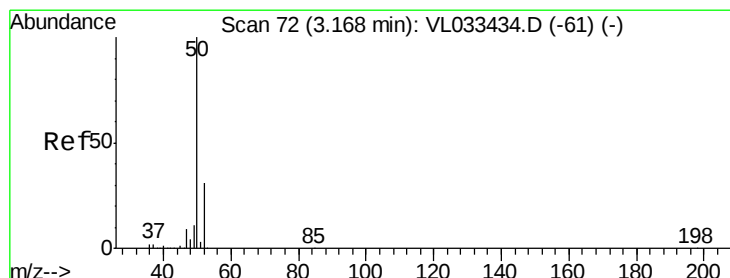
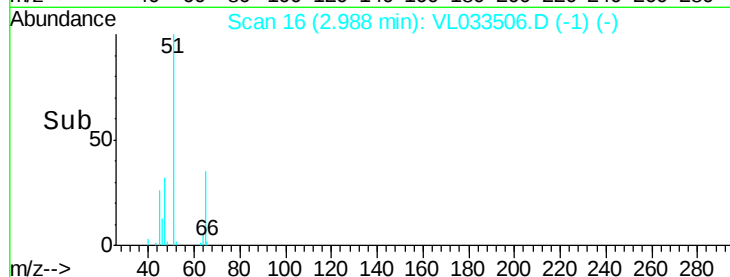
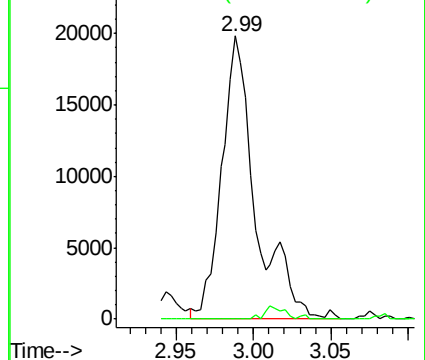
51 100

67 2.9 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.06 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033506.D

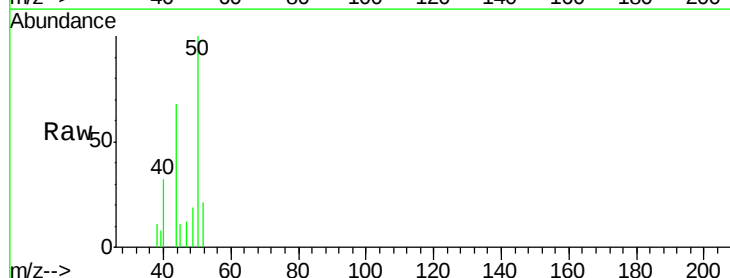
Acq: 29 Mar 2019 17:33

Tgt Ion: 50 Resp: 2762

Ion Ratio Lower Upper

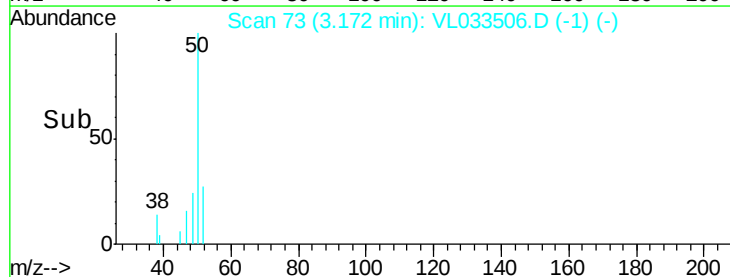
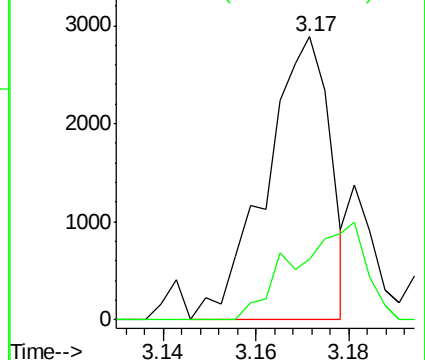
50 100

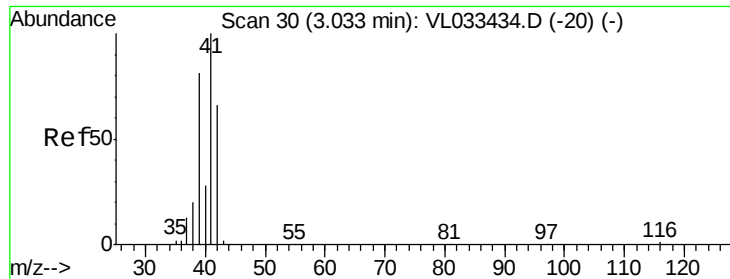
52 21.3 25.0 37.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.27 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.21 min

Lab File: VL033506.D

Acq: 29 Mar 2019 17:33

Instrument :

MSVOA_L

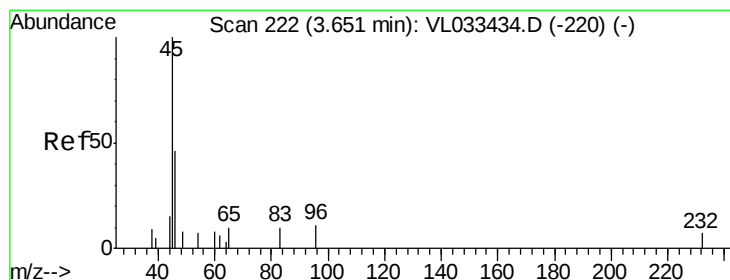
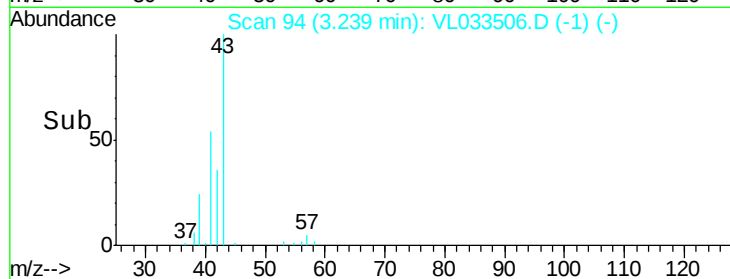
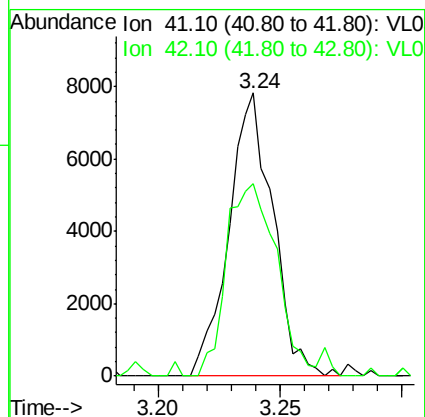
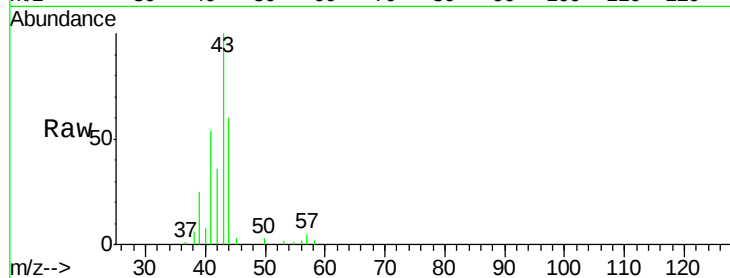
ClientSampleId :

Tot Ion: 41 Resp: 9778

Ion Ratio Lower Upper

41 100

42 80.1 53.9 80.9



#13

Ethanol

Concen: 9.86 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033506.D

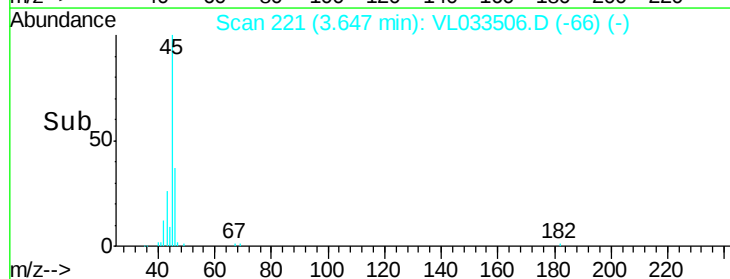
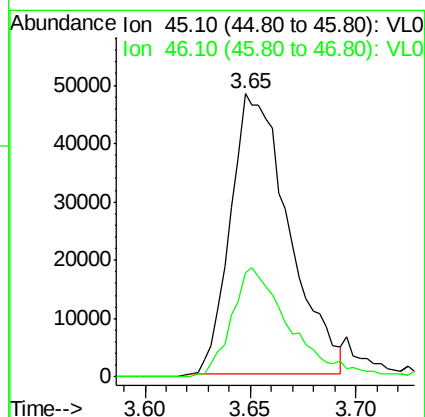
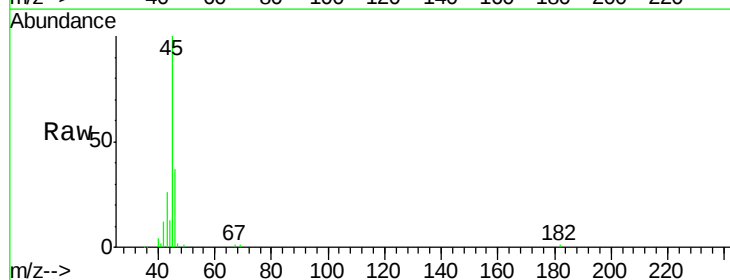
Acq: 29 Mar 2019 17:33

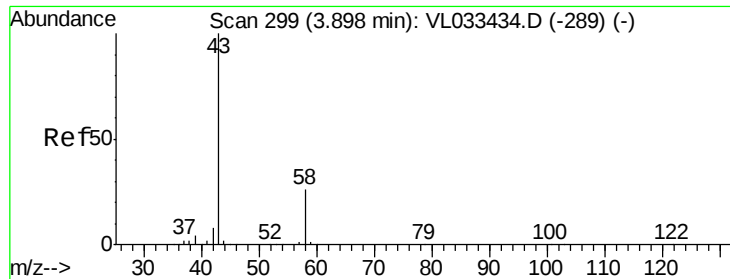
Tgt Ion: 45 Resp: 91921

Ion Ratio Lower Upper

45 100

46 39.9 25.4 101.8





#15

Acetone

Concen: 1.54 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.01 min

Lab File: VL033506.D

Acq: 29 Mar 2019 17:33

Instrument :

MSVOA_L

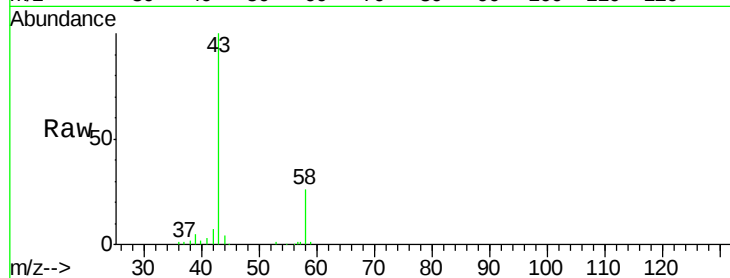
ClientSampleId :

Tot Ion: 43 Resp: 137771

Ion Ratio Lower Upper

43 100

58 25.2 20.5 30.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

100000

80000

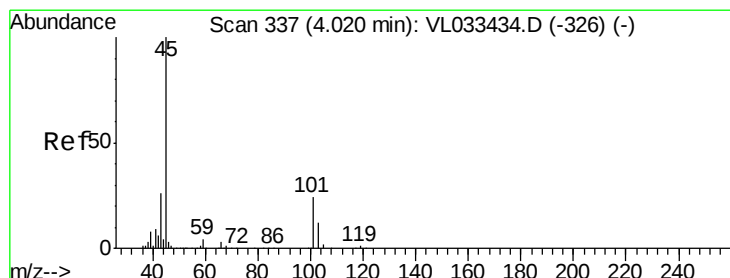
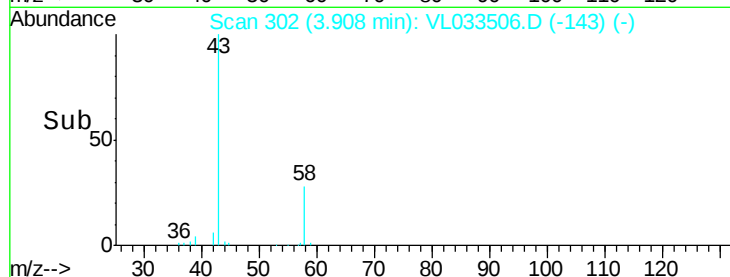
60000

40000

20000

0

Time-->



#19

Isopropyl Alcohol

Concen: 0.27 ppbv

RT: 4.04 min Scan# 343

Delta R.T. 0.02 min

Lab File: VL033506.D

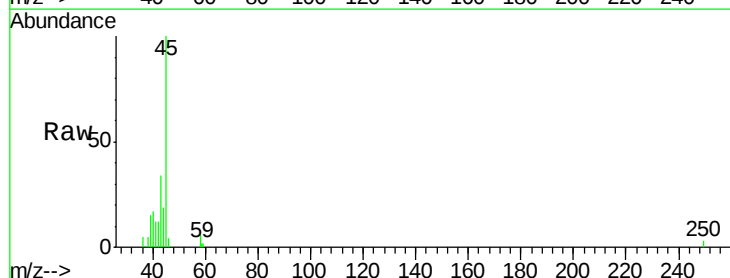
Acq: 29 Mar 2019 17:33

Tgt Ion: 45 Resp: 15363

Ion Ratio Lower Upper

45 100

58 222.3 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.04

10000

8000

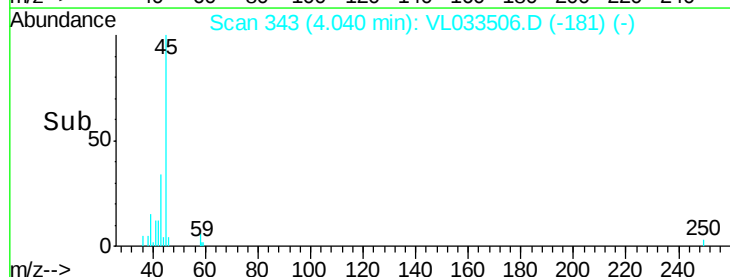
6000

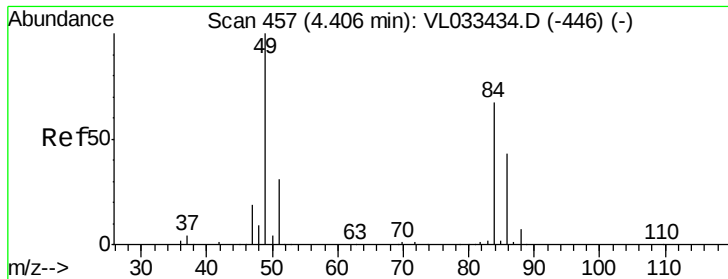
4000

2000

0

Time-->





#20

Methylene Chloride

Concen: 0.51 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033506.D

Acq: 29 Mar 2019 17:33

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 84 Resp: 19530

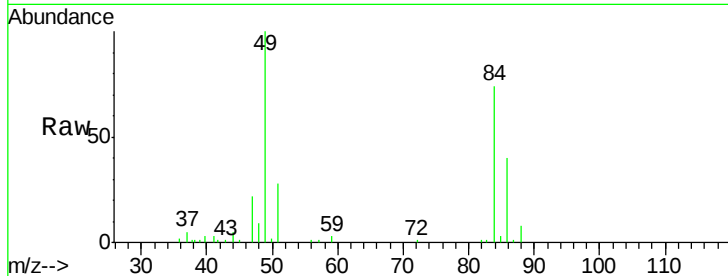
Ion Ratio Lower Upper

84 100

49 134.9 120.0 180.0

51 38.3 36.7 55.1

86 54.2 51.9 77.9

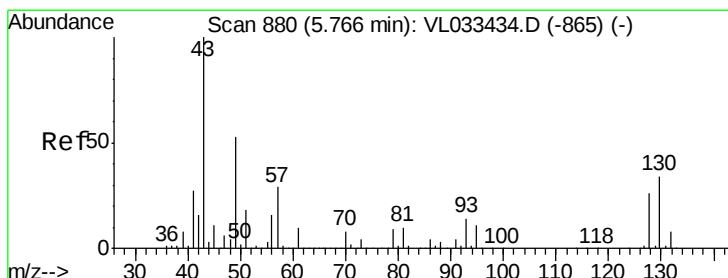
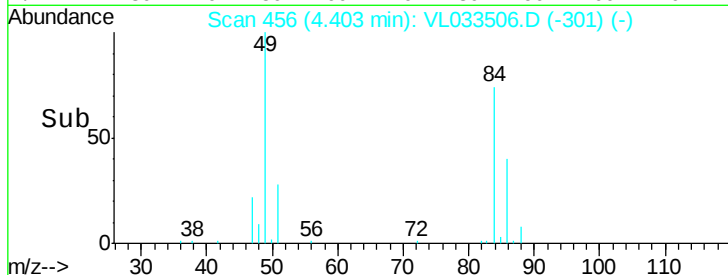
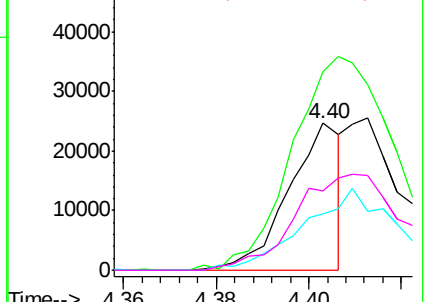


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#25

Ethyl Acetate

Concen: 0.09 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.01 min

Lab File: VL033506.D

Acq: 29 Mar 2019 17:33

Tgt Ion: 43 Resp: 14263

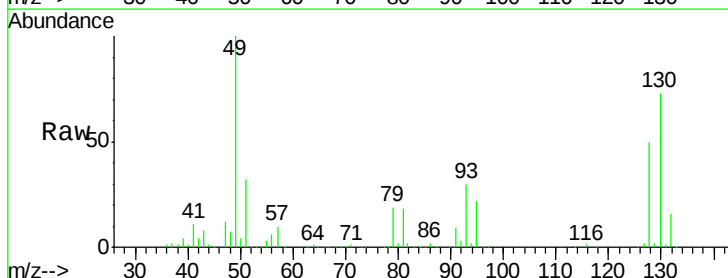
Ion Ratio Lower Upper

43 100

45 3.6 7.8 11.6#

61 0.0 7.3 10.9#

70 0.0 5.6 8.4#

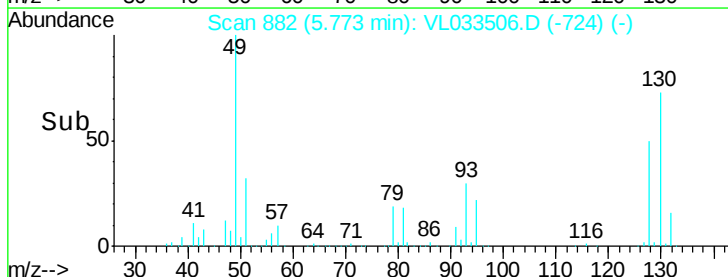
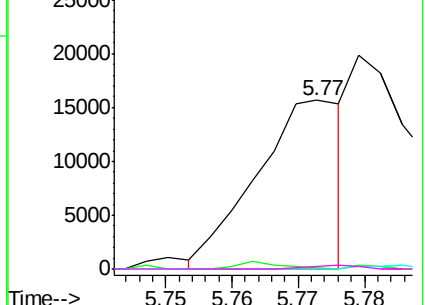


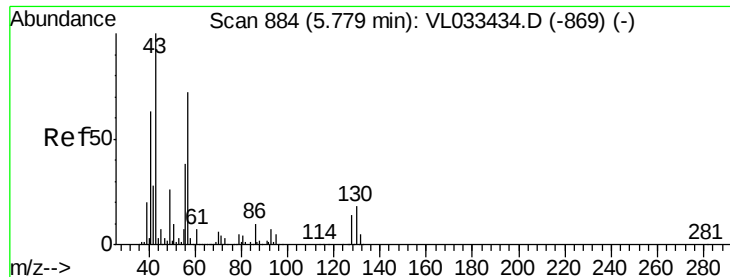
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

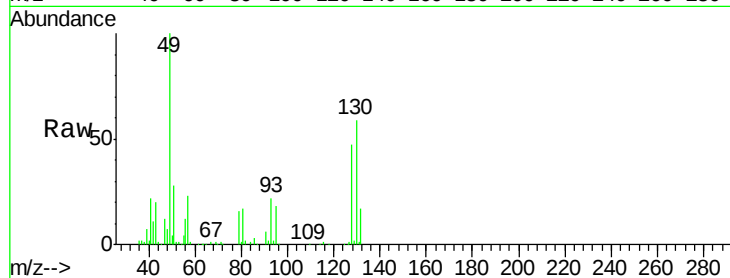




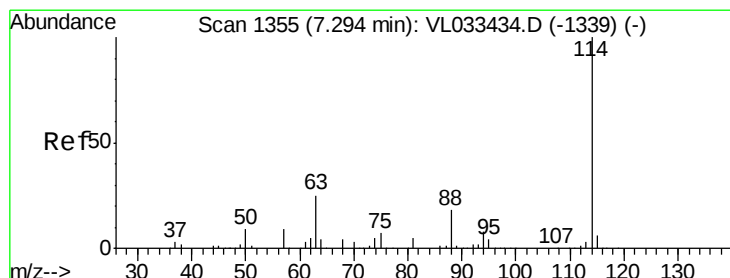
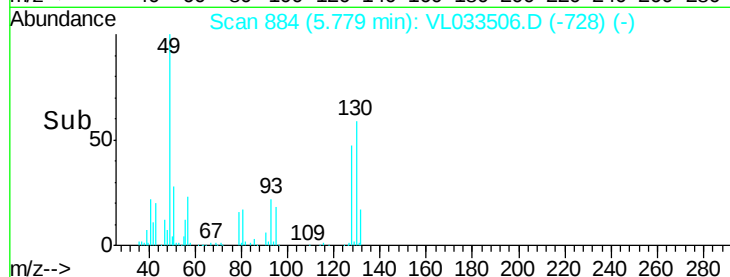
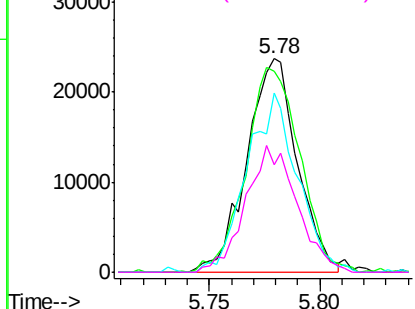
#26
Hexane
Concen: 0.51 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033506.D
Acq: 29 Mar 2019 17:33

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 37799
Ion Ratio Lower Upper
57 100
41 103.4 70.7 106.1
43 84.5 182.6 274.0#
56 59.9 42.0 63.0

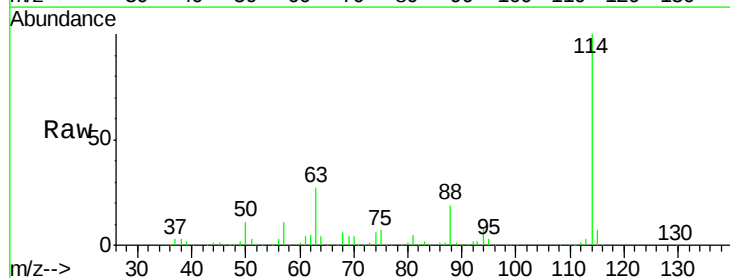


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

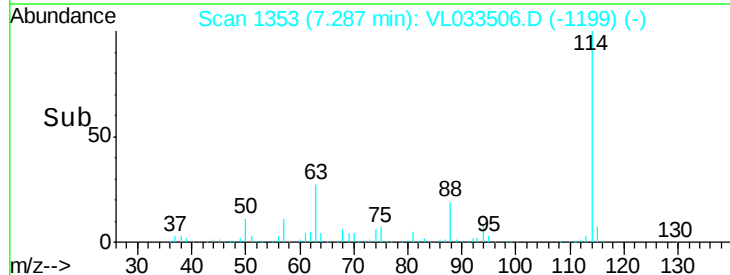
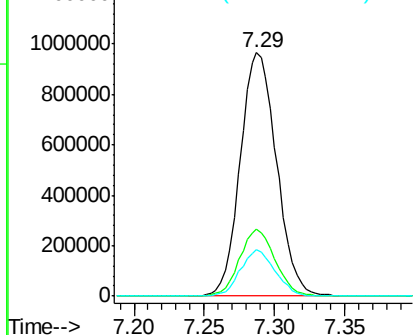


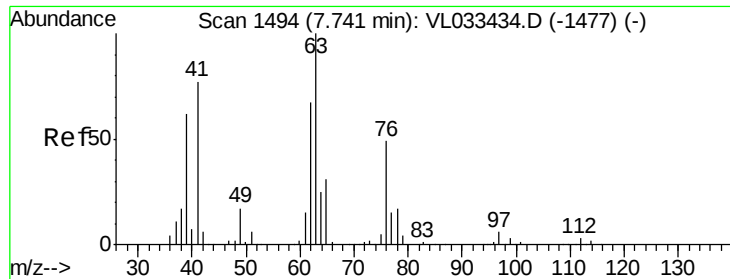
#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033506.D
Acq: 29 Mar 2019 17:33

Tgt Ion: 114 Resp: 1738476
Ion Ratio Lower Upper
114 100
63 26.9 21.5 32.3
88 18.3 14.5 21.7



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

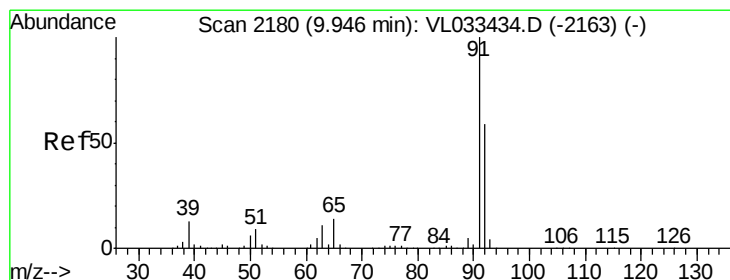
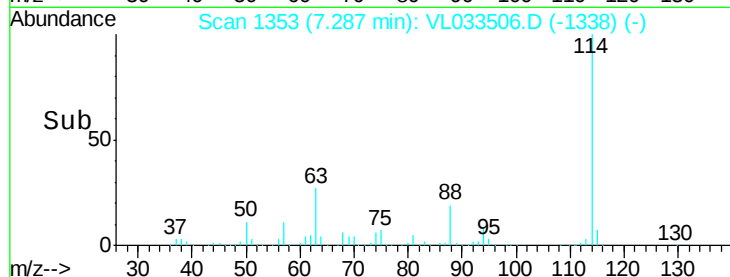
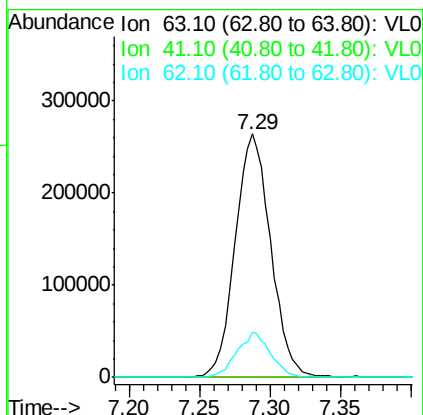
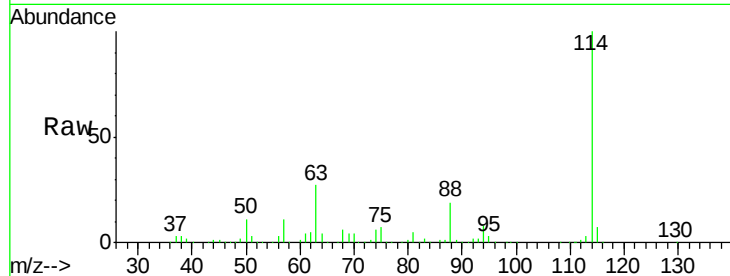




#39
 1,2-Dichloropropane
 Concen: 8.14 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.45 min
 Lab File: VL033506.D
 Acq: 29 Mar 2019 17:33

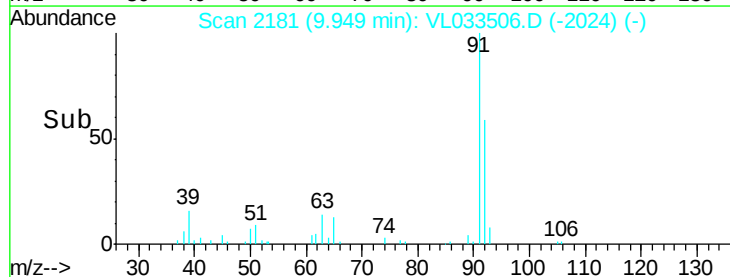
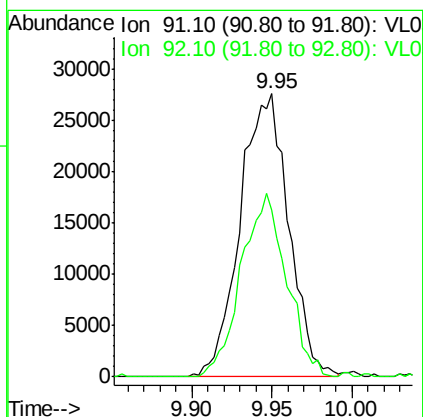
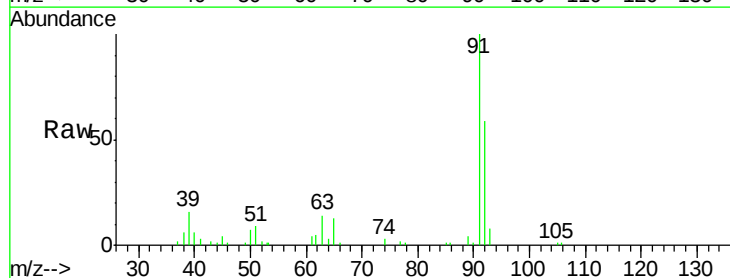
Instrument :
 MSVOA_L
 ClientSampleId :

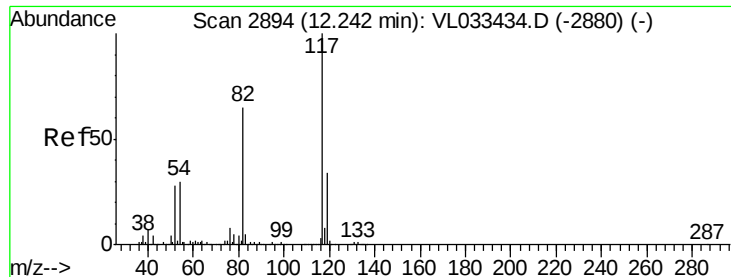
Tot Ion: 63 Resp: 465334
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.2 91.8#
 62 18.4 54.0 81.0#



#53
 Toluene
 Concen: 0.34 ppbv
 RT: 9.95 min Scan# 2181
 Delta R.T. 0.00 min
 Lab File: VL033506.D
 Acq: 29 Mar 2019 17:33

Tgt Ion: 91 Resp: 57155
 Ion Ratio Lower Upper
 91 100
 92 61.0 47.4 71.0

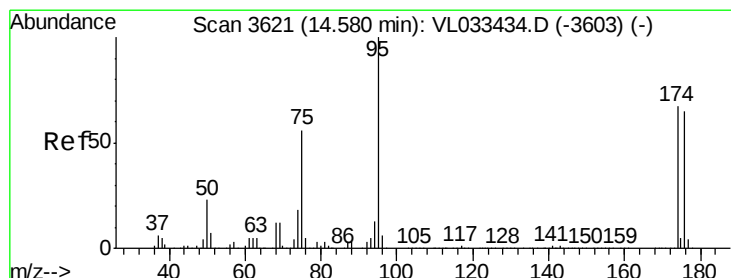
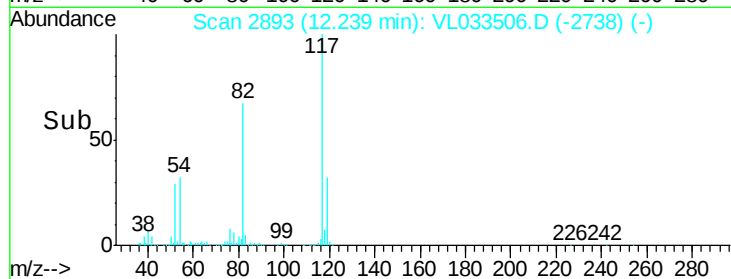
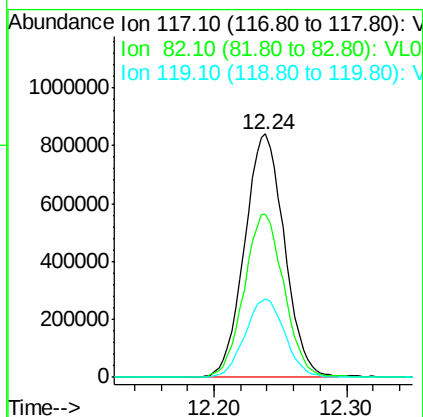
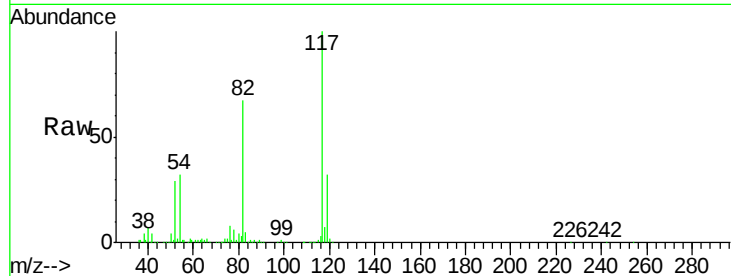




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033506.D
Acq: 29 Mar 2019 17:33

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 1756391
Ion Ratio Lower Upper
117 100
82 67.3 51.5 77.3
119 32.3 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.95 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.00 min
Lab File: VL033506.D
Acq: 29 Mar 2019 17:33

Tgt Ion: 95 Resp: 1370509
Ion Ratio Lower Upper
95 100
174 64.6 52.9 79.3
175 4.8 3.8 5.6

