

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032799.D
 Acq On : 21 Nov 2018 4:33
 Operator : SY/AP
 Sample : J5998-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 21 06:18:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed 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	1308339	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3354232	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3030824	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2390369	10.54	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.40%

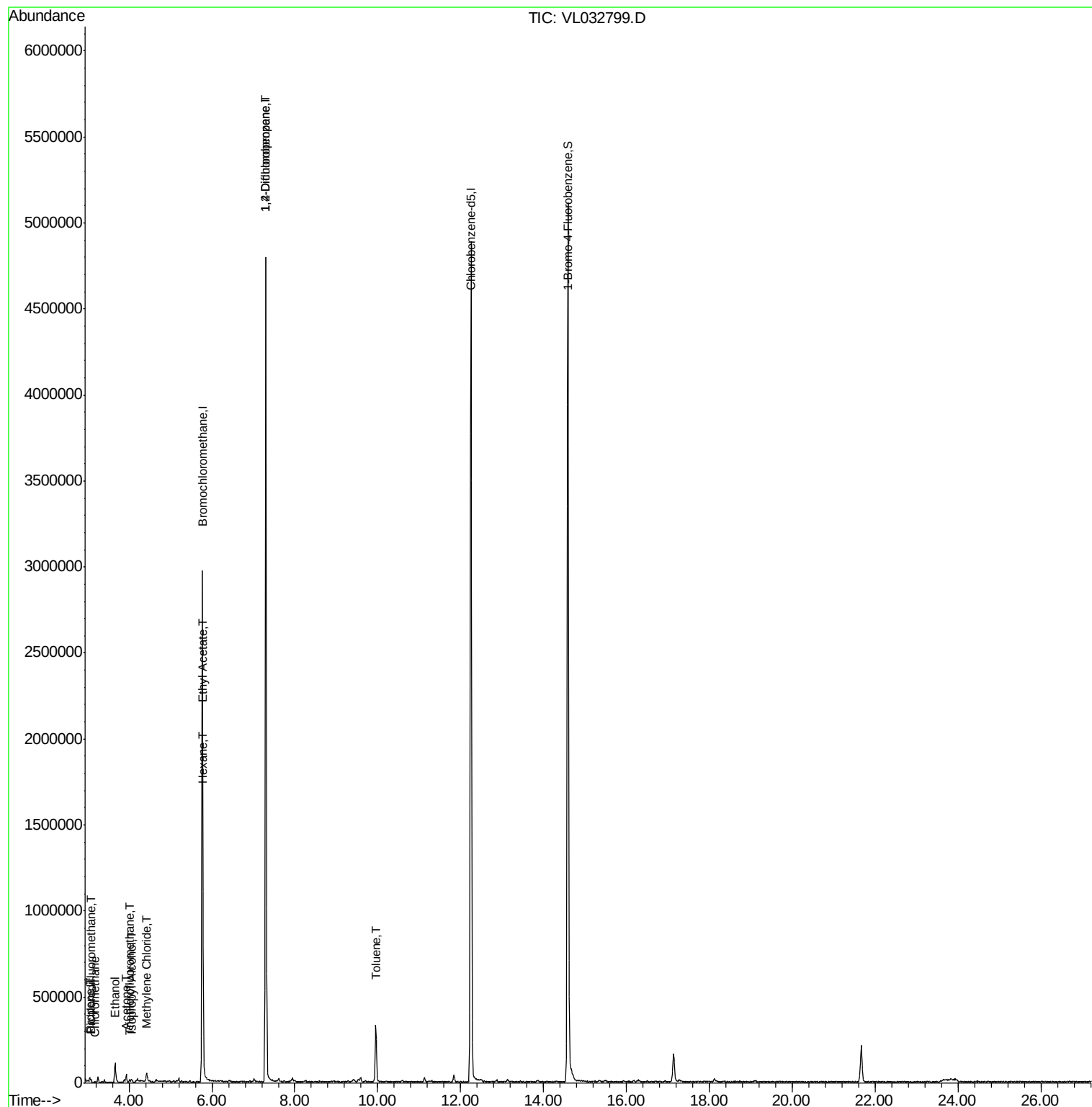
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	11552	0.061	ppbv	92
4) Chloromethane	3.18	50	1848	0.032	ppbv #	82
9) Propene	3.05	41	4675	0.113	ppbv	87
11) Trichlorofluoromethane	4.01	101	9161	0.052	ppbv	97
13) Ethanol	3.66	45	122401	9.003	ppbv	98
15) Acetone	3.93	43	33668	0.282	ppbv	100
19) Isopropyl Alcohol	4.06	45	16409	0.206	ppbv #	95
20) Methylene Chloride	4.42	84	13051	0.211	ppbv #	68
25) Ethyl Acetate	5.79	43	12678	0.046	ppbv #	90
26) Hexane	5.79	57	7763	0.063	ppbv #	39
39) 1,2-Dichloropropane	7.30	63	820771	8.065	ppbv #	22
53) Toluene	9.96	91	246560	0.885	ppbv	96

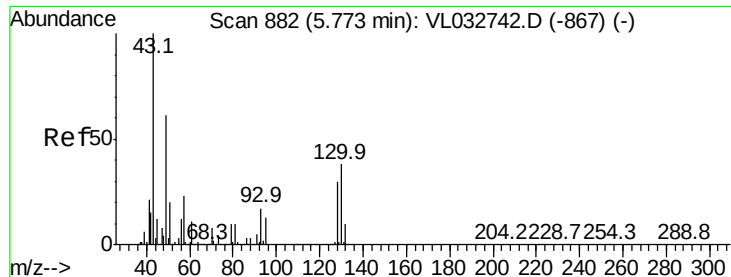
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 21 06:18:58 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032799.D

Acq: 21 Nov 2018 4:33

Instrument :
MSVOA_L
ClientSampled :

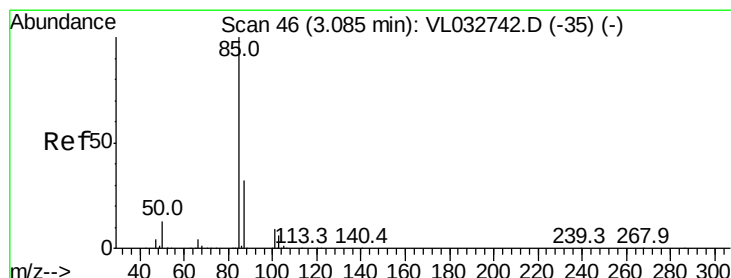
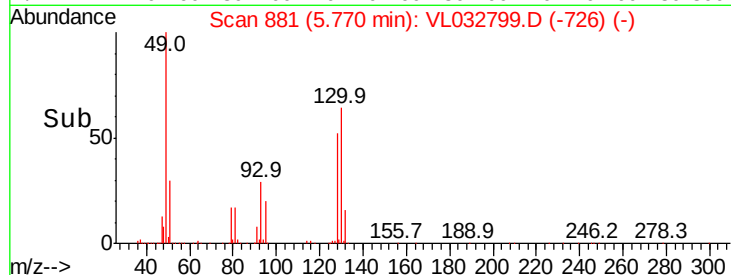
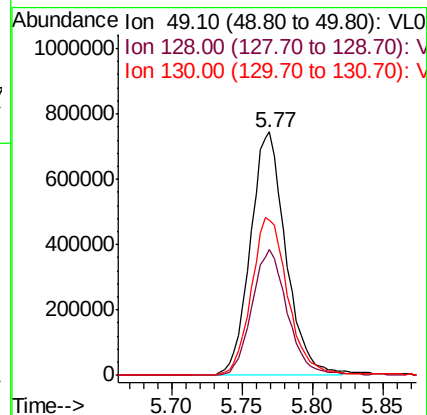
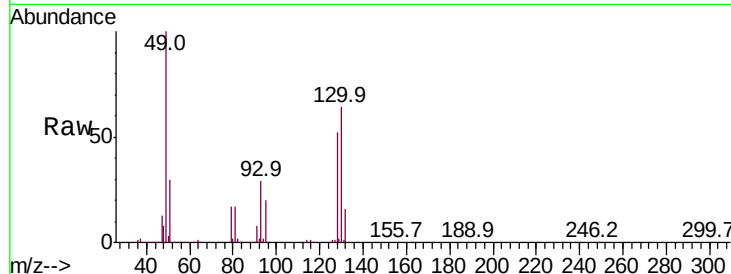
Tot Ion: 49 Resp: 1308339

Ion Ratio Lower Upper

49 100

128 52.4 24.9 74.6

130 67.6 31.4 94.2



#2

Dichlorodifluoromethane

Concen: 0.061 ppbv

RT: 3.08 min Scan# 46

Delta R.T. 0.00 min

Lab File: VL032799.D

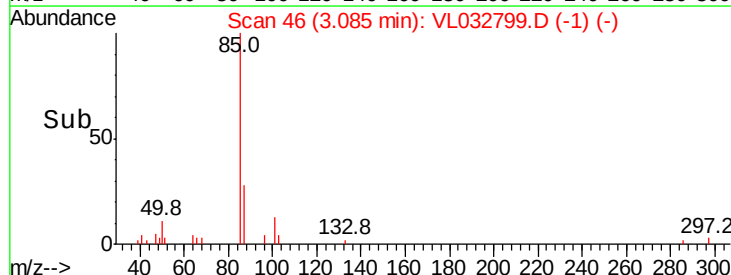
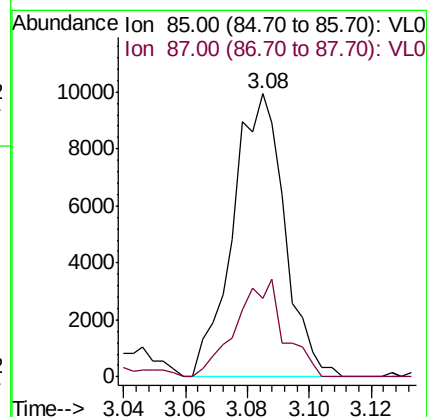
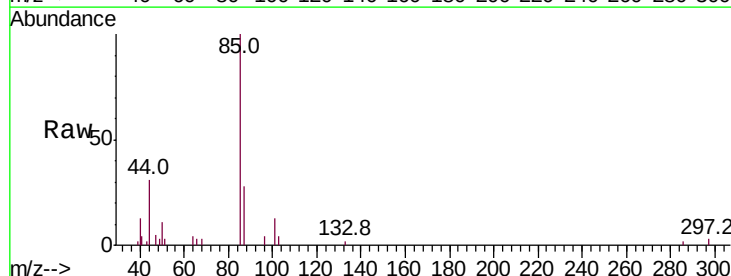
Acq: 21 Nov 2018 4:33

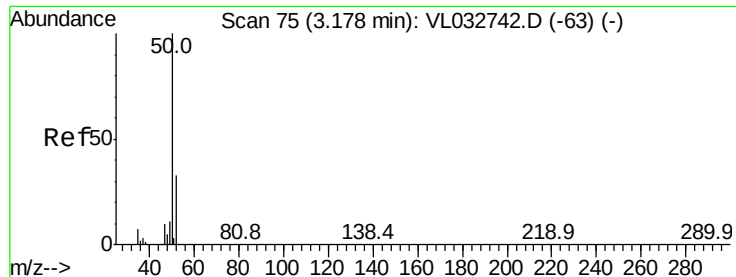
Tgt Ion: 85 Resp: 11552

Ion Ratio Lower Upper

85 100

87 27.8 26.0 39.0





#4

Chloromethane

Concen: 0.032 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032799.D

Acq: 21 Nov 2018 4:33

Instrument :

MSVOA_L

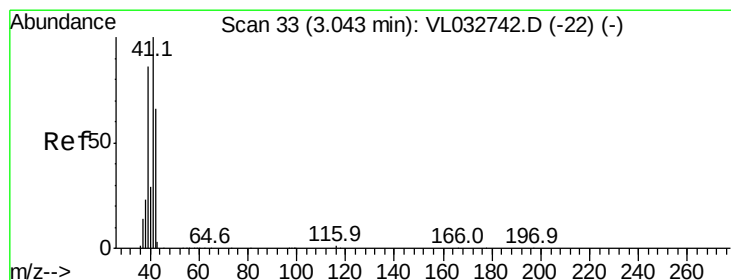
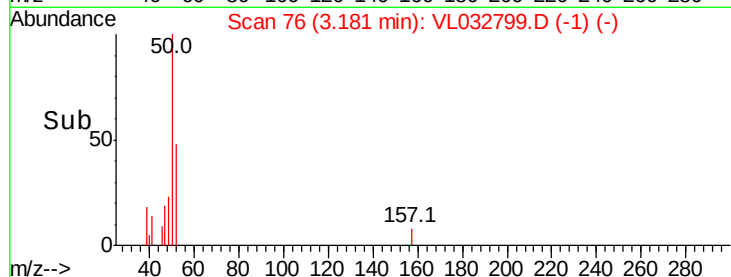
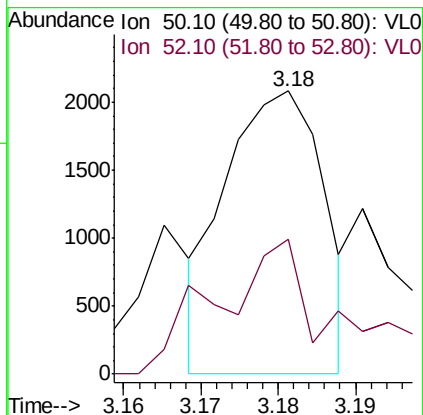
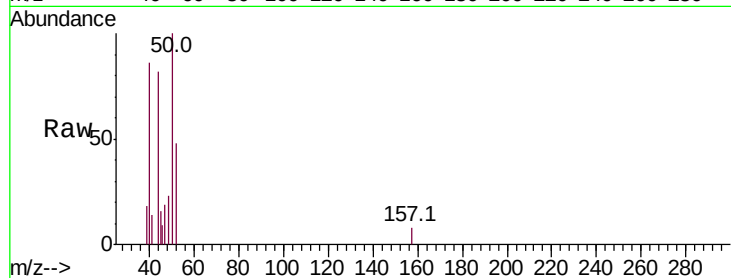
ClientSampleId :

Tot Ion: 50 Resp: 1848

Ion Ratio Lower Upper

50 100

52 43.2 26.6 40.0#



#9

Propene

Concen: 0.113 ppbv

RT: 3.05 min Scan# 36

Delta R.T. 0.01 min

Lab File: VL032799.D

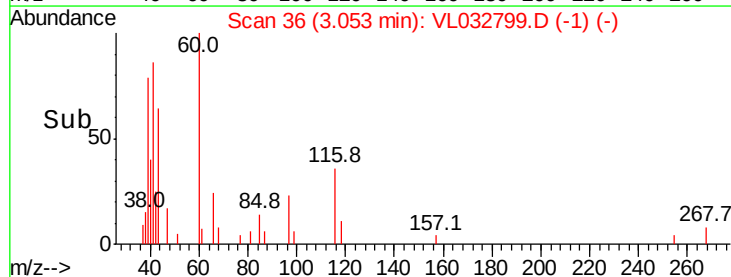
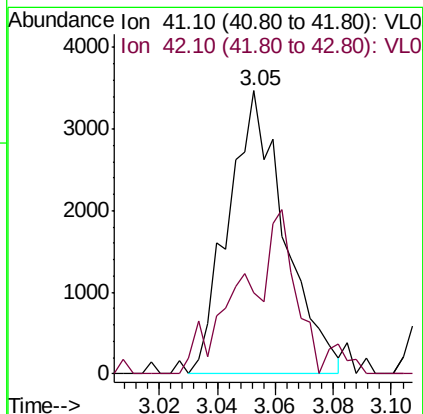
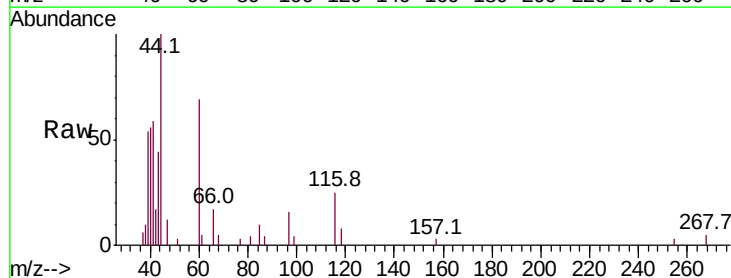
Acq: 21 Nov 2018 4:33

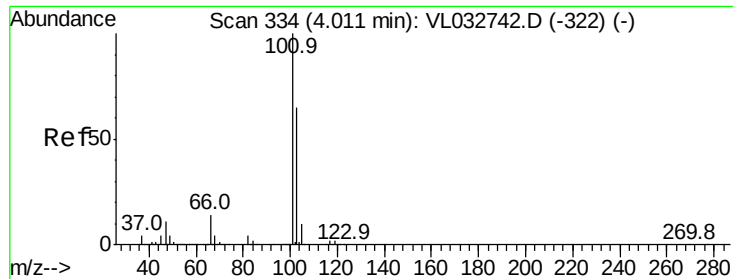
Tgt Ion: 41 Resp: 4675

Ion Ratio Lower Upper

41 100

42 58.4 55.0 82.6

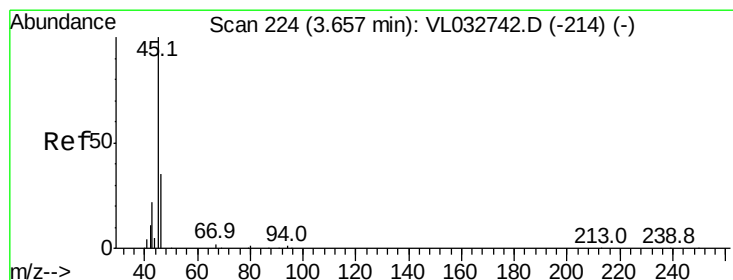
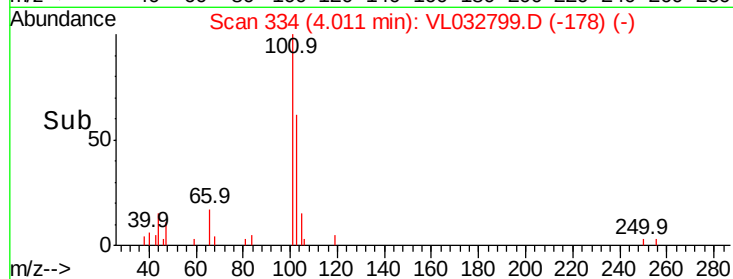
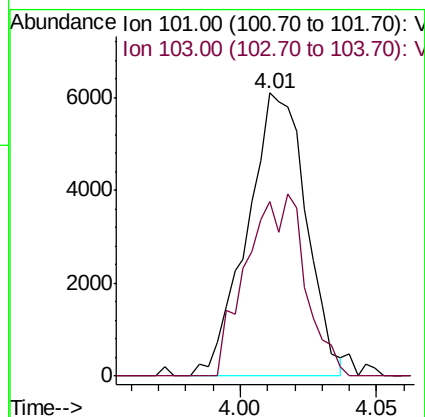
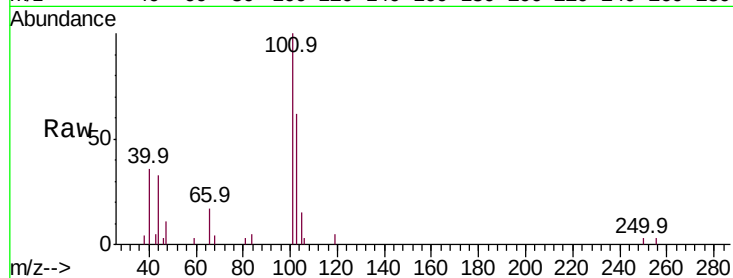




#11
 Trichlorofluoromethane
 Concen: 0.052 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. 0.00 min
 Lab File: VL032799.D
 Acq: 21 Nov 2018 4:33

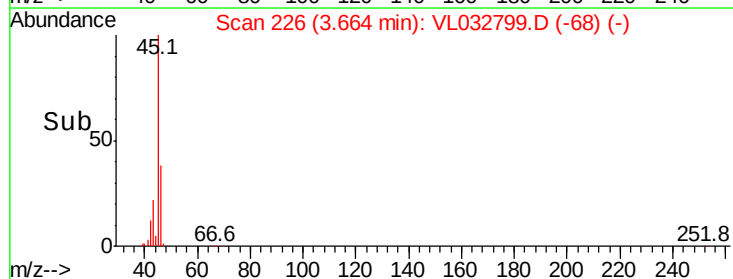
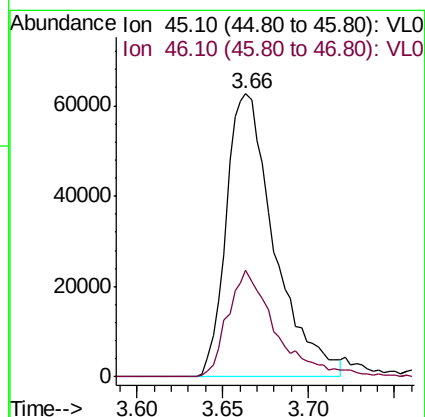
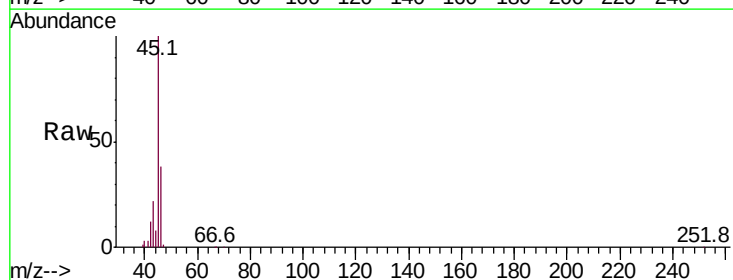
Instrument :
 MSVOA_L
 ClientSampleId :

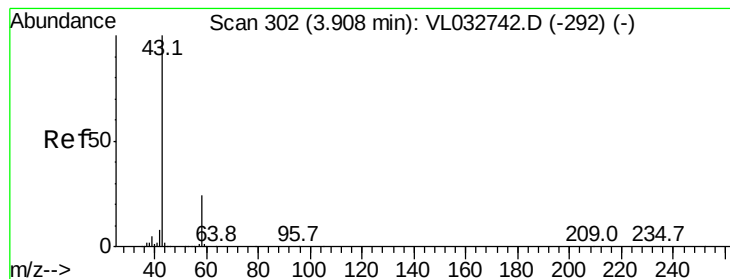
Tot Ion:101 Resp: 9161
 Ion Ratio Lower Upper
 101 100
 103 61.8 51.6 77.4



#13
 Ethanol
 Concen: 9.003 ppbv
 RT: 3.66 min Scan# 226
 Delta R.T. 0.01 min
 Lab File: VL032799.D
 Acq: 21 Nov 2018 4:33

Tgt Ion: 45 Resp: 122401
 Ion Ratio Lower Upper
 45 100
 46 37.6 14.5 57.9





#15

Acetone

Concen: 0.282 ppbv

RT: 3.93 min Scan# 308

Delta R.T. 0.02 min

Lab File: VL032799.D

Acq: 21 Nov 2018 4:33

Instrument :

MSVOA_L

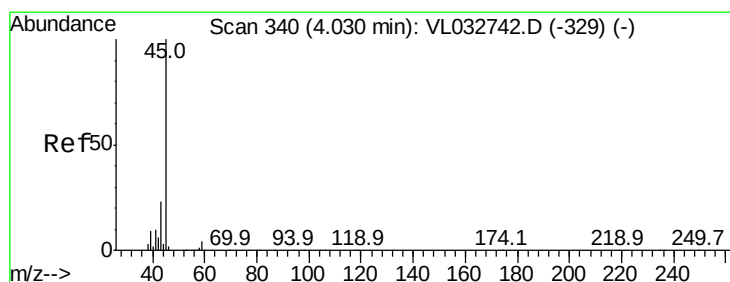
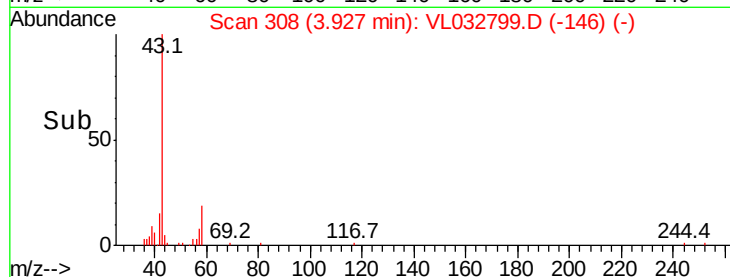
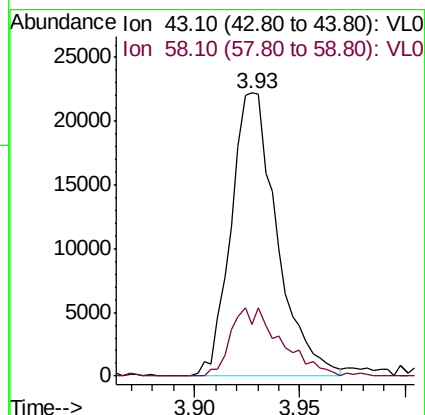
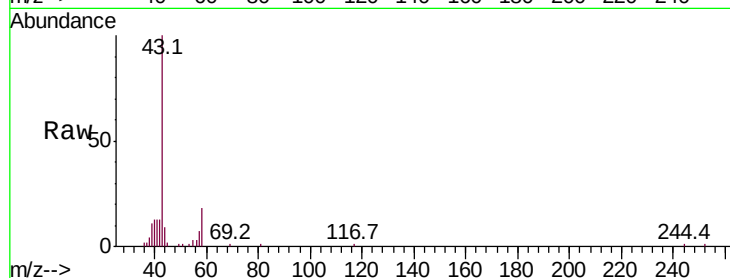
ClientSampleId :

Tot Ion: 43 Resp: 33668

Ion Ratio Lower Upper

43 100

58 26.6 21.1 31.7



#19

Isopropyl Alcohol

Concen: 0.206 ppbv

RT: 4.06 min Scan# 349

Delta R.T. 0.03 min

Lab File: VL032799.D

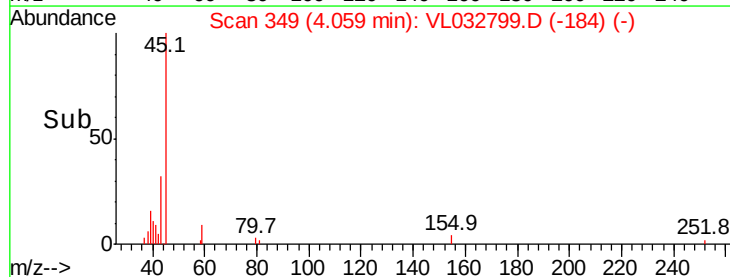
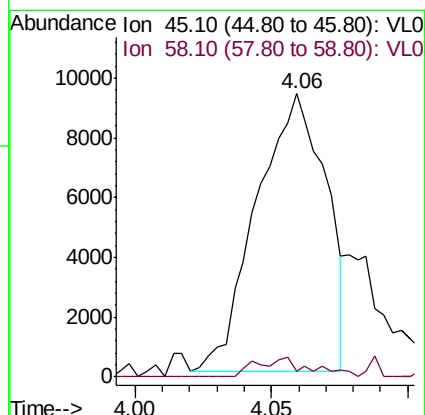
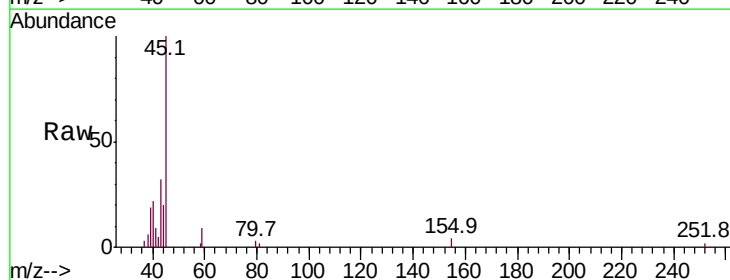
Acq: 21 Nov 2018 4:33

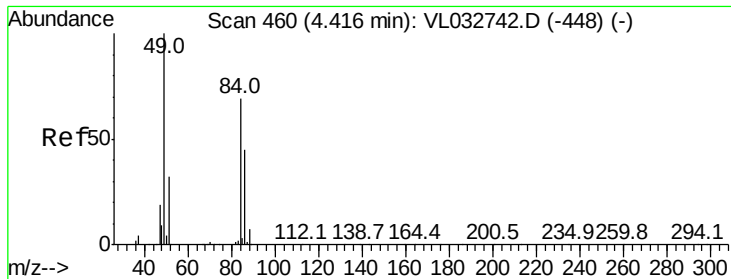
Tgt Ion: 45 Resp: 16409

Ion Ratio Lower Upper

45 100

58 3.5 1.4 2.0#

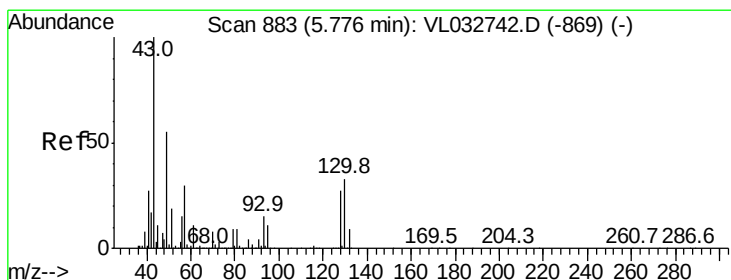
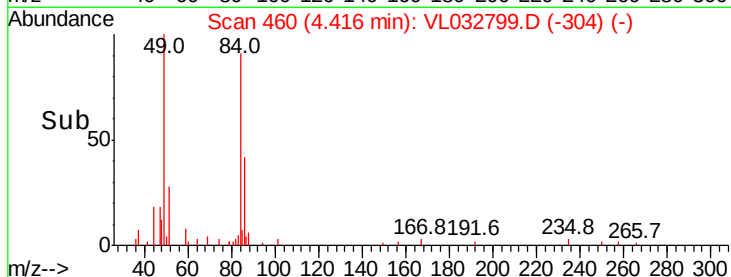
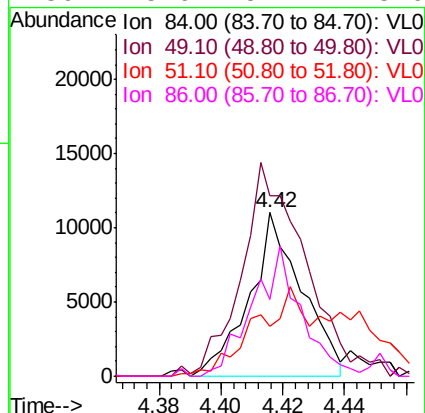
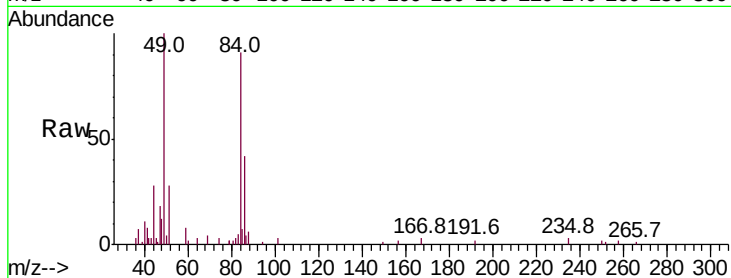




#20
Methylene Chloride
Concen: 0.211 ppbv
RT: 4.42 min Scan# 460
Delta R.T. 0.00 min
Lab File: VL032799.D
Acq: 21 Nov 2018 4:33

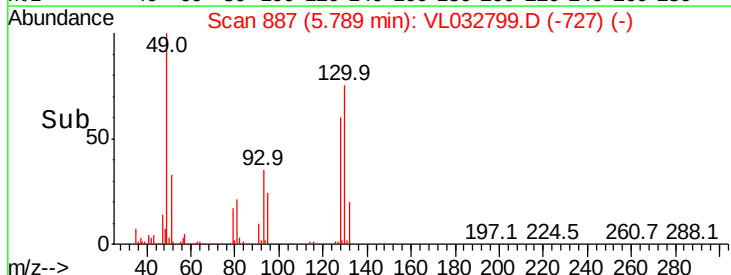
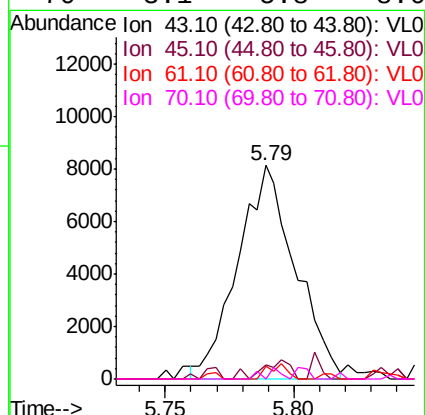
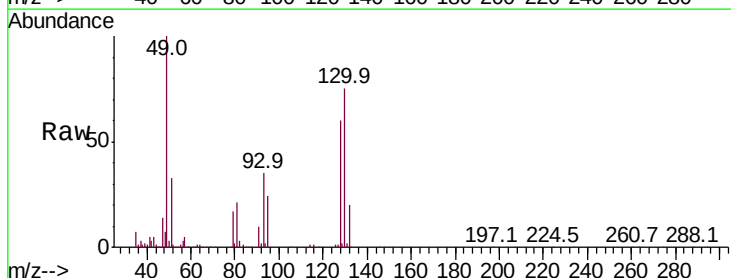
Instrument :
MSVOA_L
ClientSampleId :

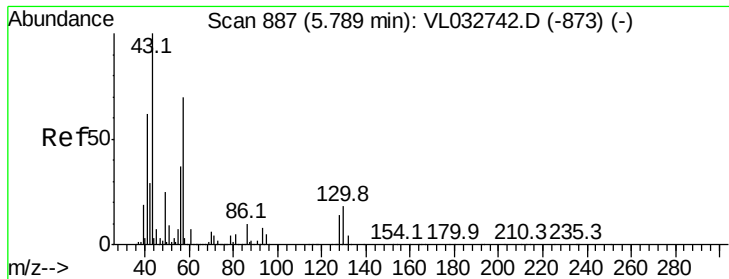
Tot Ion: 84 Resp: 13051
Ion Ratio Lower Upper
84 100
49 101.0 115.8 173.6#
51 26.7 36.9 55.3#
86 43.6 52.4 78.6#



#25
Ethyl Acetate
Concen: 0.046 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.01 min
Lab File: VL032799.D
Acq: 21 Nov 2018 4:33

Tgt Ion: 43 Resp: 12678
Ion Ratio Lower Upper
43 100
45 7.9 7.9 11.9#
61 5.1 7.8 11.6#
70 3.1 5.8 8.6#

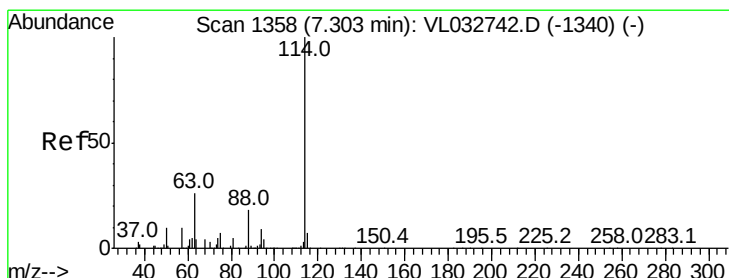
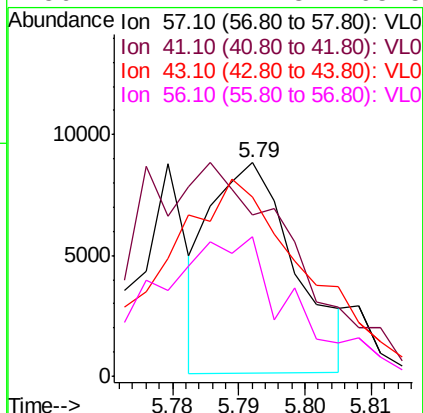
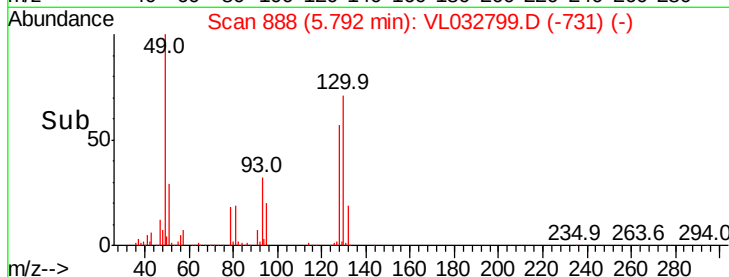
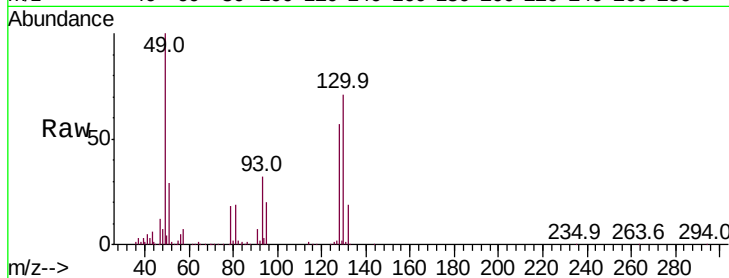




#26
Hexane
Concen: 0.063 ppbv
RT: 5.79 min Scan# 888
Delta R.T. 0.00 min
Lab File: VL032799.D
Acq: 21 Nov 2018 4:33

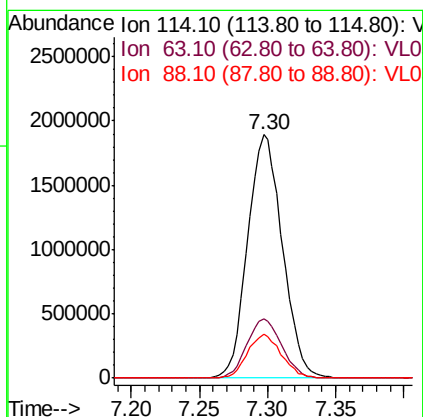
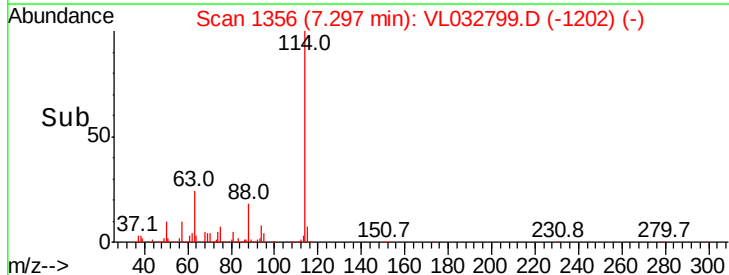
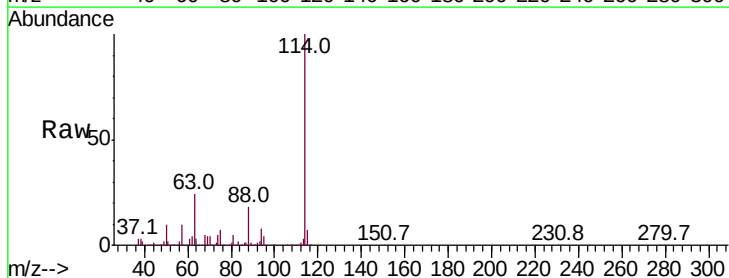
Instrument :
MSVOA_L
ClientSampleId :

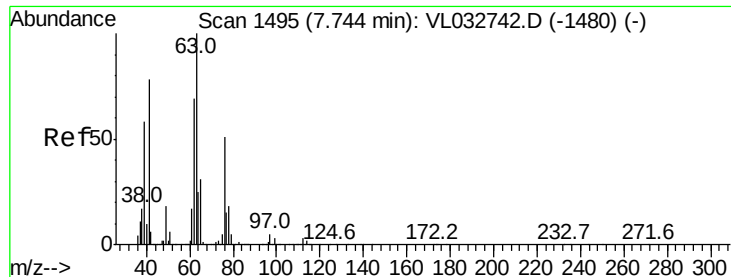
Tot Ion: 57 Resp: 7763
Ion Ratio Lower Upper
57 100
41 201.4 70.3 105.5#
43 170.2 174.0 261.0#
56 117.1 42.3 63.5#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.01 min
Lab File: VL032799.D
Acq: 21 Nov 2018 4:33

Tgt Ion: 114 Resp: 3354232
Ion Ratio Lower Upper
114 100
63 24.6 20.9 31.3
88 17.6 14.4 21.6





#39

1,2-Dichloropropane

Concen: 8.065 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL032799.D

Acq: 21 Nov 2018 4:33

Instrument :

MSVOA_L

ClientSampleId :

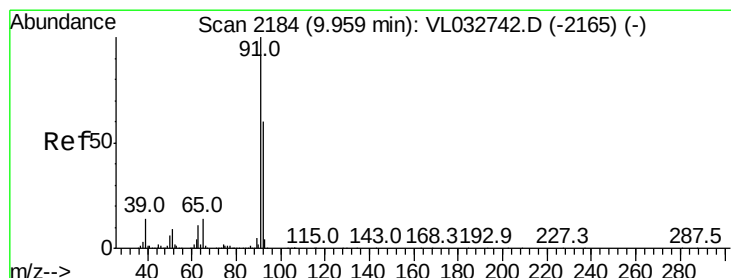
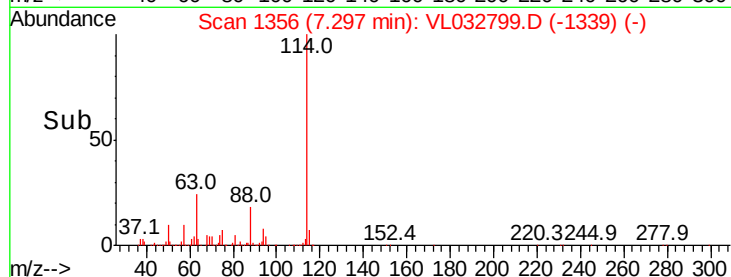
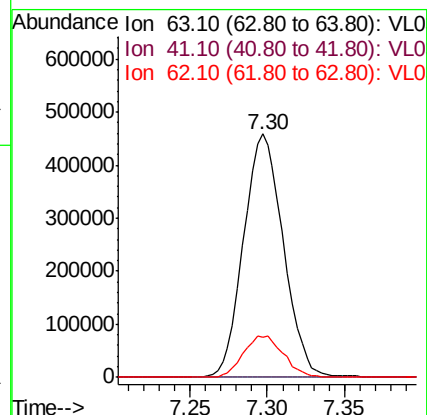
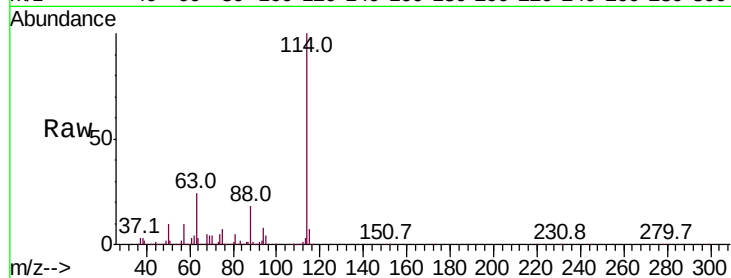
Tot Ion: 63 Resp: 820771

Ion Ratio Lower Upper

63 100

41 0.1 62.0 93.0#

62 16.6 55.4 83.2#



#53

Toluene

Concen: 0.885 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032799.D

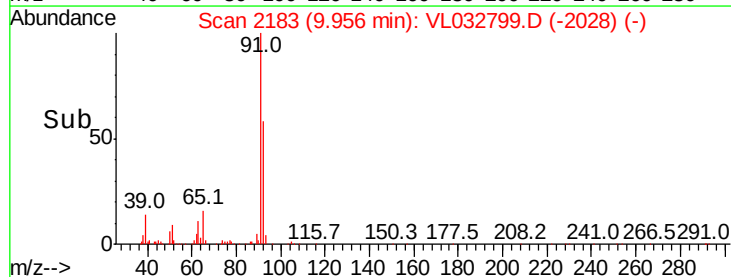
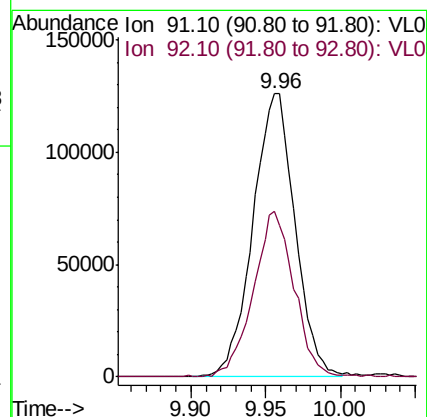
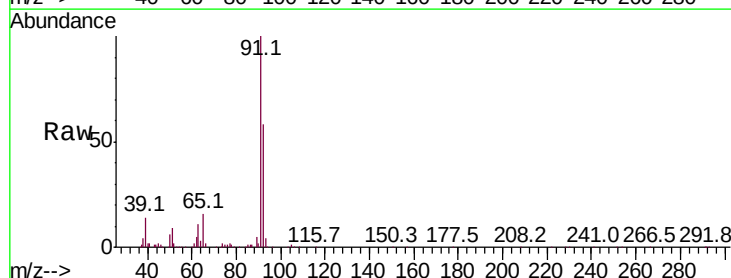
Acq: 21 Nov 2018 4:33

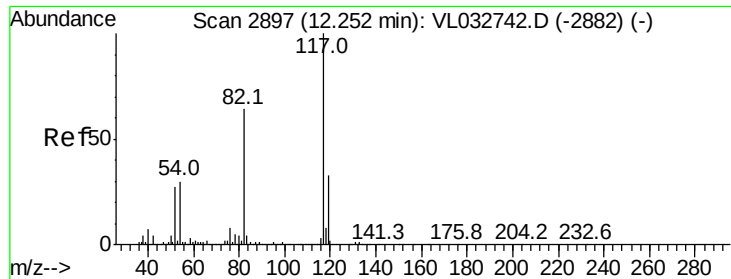
Tgt Ion: 91 Resp: 246560

Ion Ratio Lower Upper

91 100

92 56.9 47.9 71.9

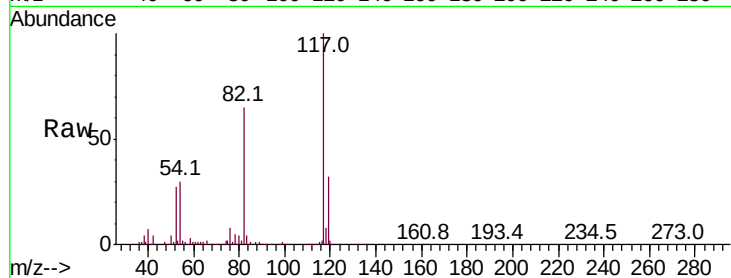




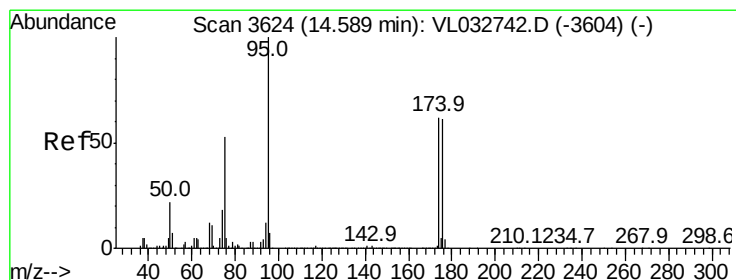
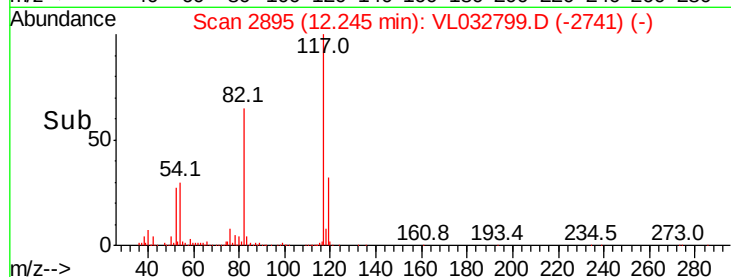
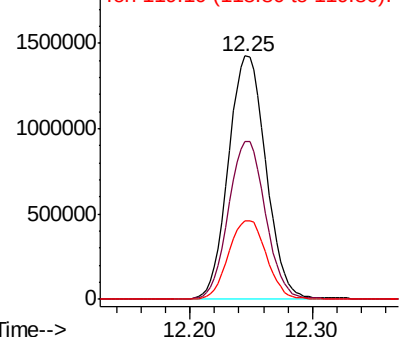
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL032799.D
Acq: 21 Nov 2018 4:33

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3030824
Ion Ratio Lower Upper
117 100
82 64.5 51.0 76.6
119 33.1 28.0 42.0

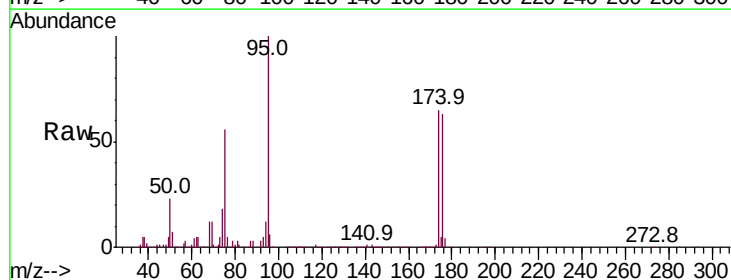


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.545 ppbv
RT: 14.58 min Scan# 3622
Delta R.T. -0.01 min
Lab File: VL032799.D
Acq: 21 Nov 2018 4:33

Tgt Ion: 95 Resp: 2390369
Ion Ratio Lower Upper
95 100
174 67.4 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

