

Data File : VL033376.D
Acq On : 19 Mar 2019 2:36
Operator : SY/AP
Sample : K1805-04DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA3DL

Quant Time: Mar 19 06:58:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	747436	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1665373	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	1592141	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 1198625 10.16 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 101.60%

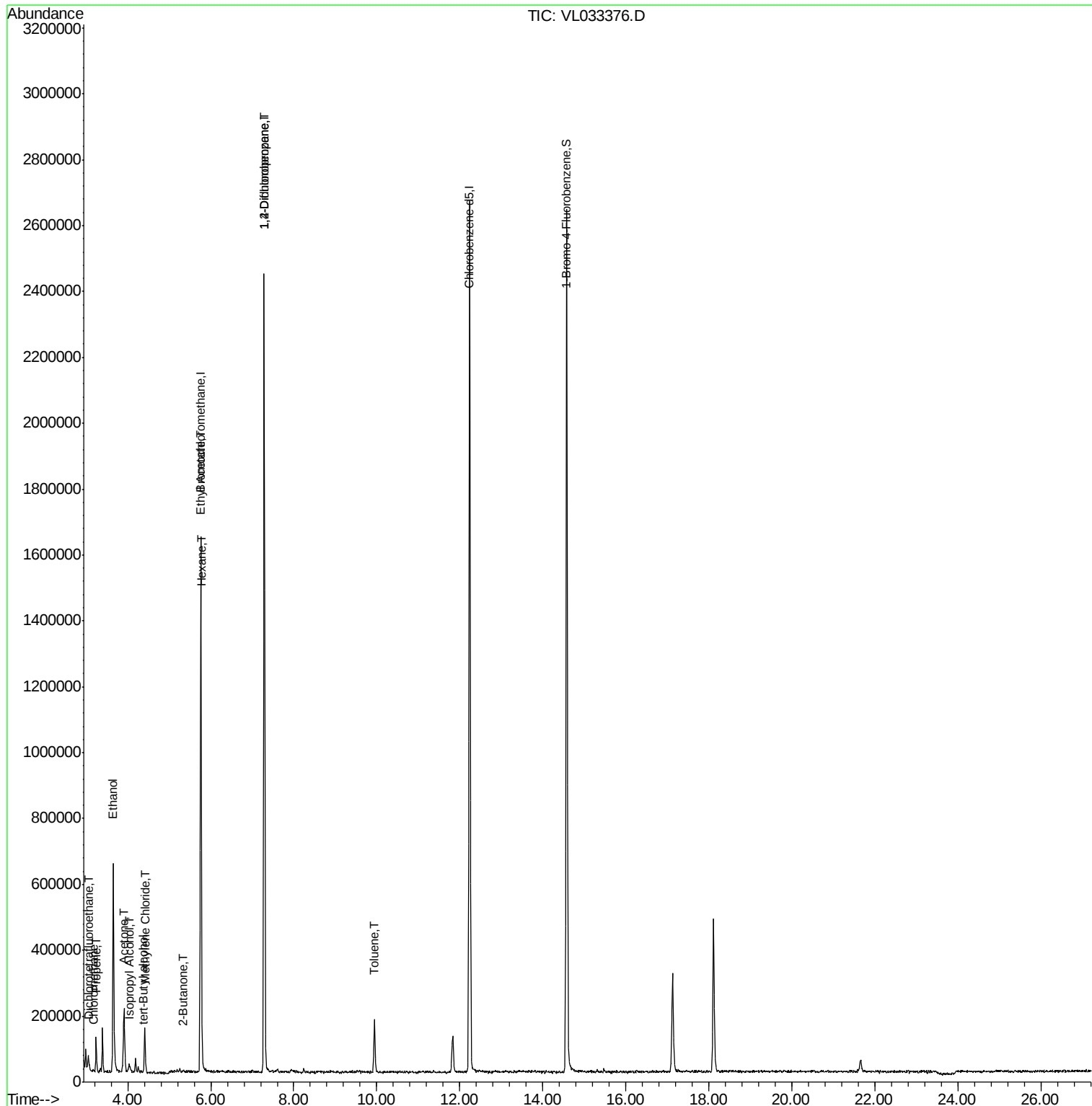
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.17	50	1671	0.036	ppbv	93
8) Dichlorotetrafluoroethane	3.07	85	9695	0.087	ppbv #	17
9) Propene	3.24	41	22200	0.580	ppbv	91
13) Ethanol	3.65	45	666302	36.496	ppbv	97
15) Acetone	3.90	43	199343	1.716	ppbv	95
17) tert-Butyl alcohol	4.37	59	621	0.038	ppbv #	74
19) Isopropyl Alcohol	4.03	45	9074	0.164	ppbv #	51
20) Methylene Chloride	4.41	84	46960	1.239	ppbv	97
25) Ethyl Acetate	5.77	43	10964	0.065	ppbv #	80
26) Hexane	5.78	57	23776	0.315	ppbv #	43
34) 2-Butanone	5.34	43	4101	0.037	ppbv #	63
39) 1,2-Dichloropropane	7.29	63	451331	8.086	ppbv #	24
53) Toluene	9.94	91	119300	0.704	ppbv	99

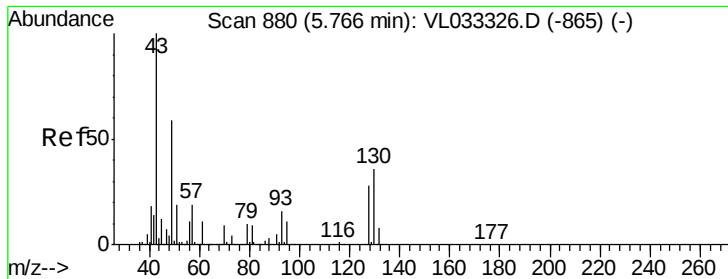
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

L1HA-IA3DL

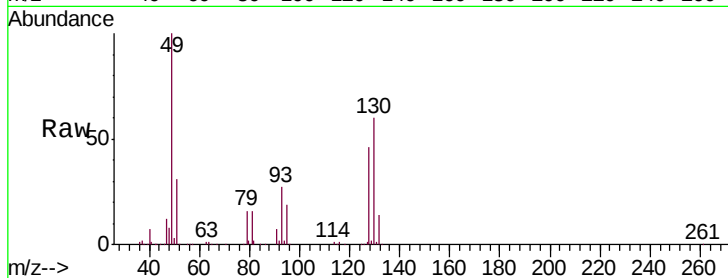
Tgt Ion: 49 Resp: 747436

Ion Ratio Lower Upper

49 100

128 46.8 23.5 70.6

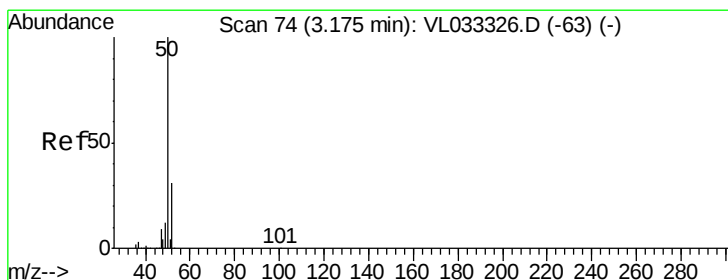
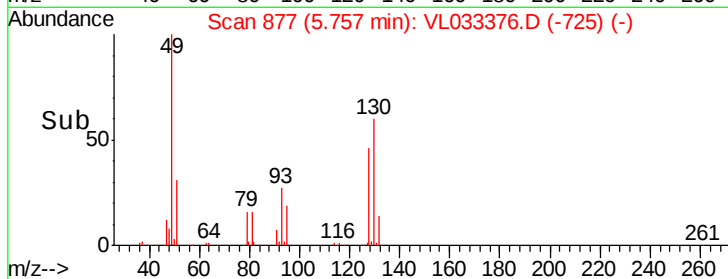
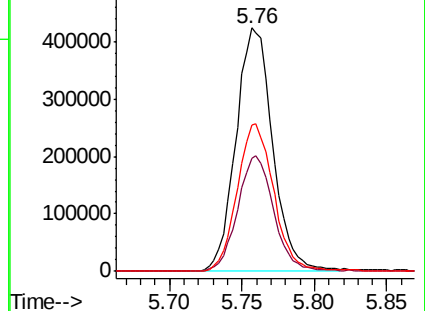
130 60.7 30.1 90.3



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



#4

Chloromethane

Concen: 0.036 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.01 min

Lab File: VL033376.D

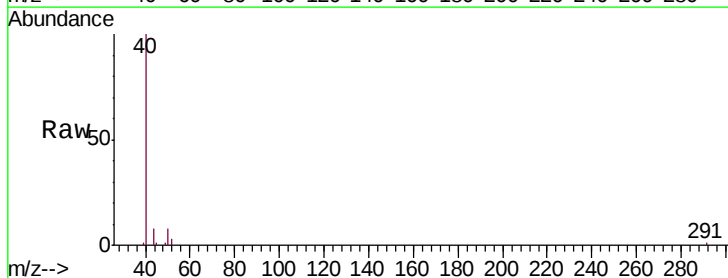
Acq: 19 Mar 2019 2:36

Tgt Ion: 50 Resp: 1671

Ion Ratio Lower Upper

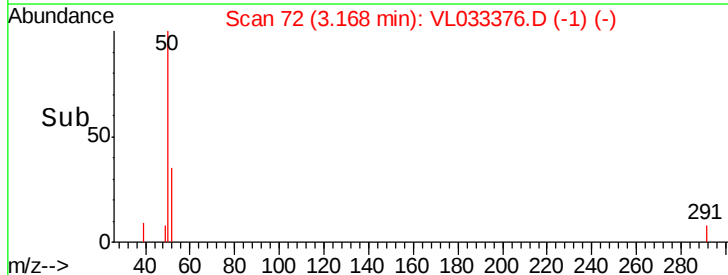
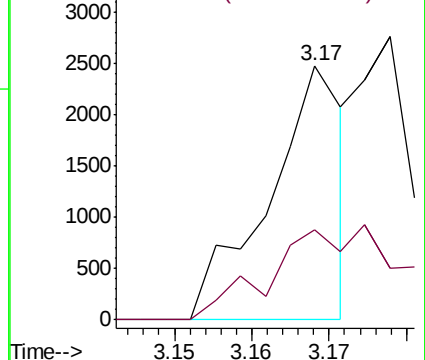
50 100

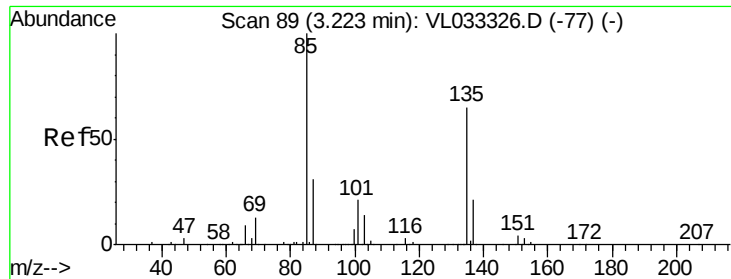
52 35.2 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.087 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.15 min

Lab File: VL033376.D

Acq: 19 Mar 2019 2:36

Instrument :

MSVOA_L

ClientSampleId :

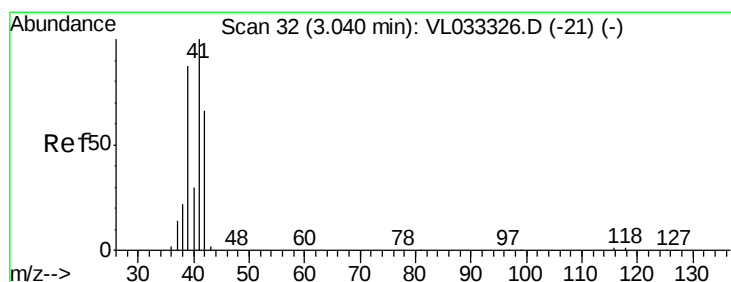
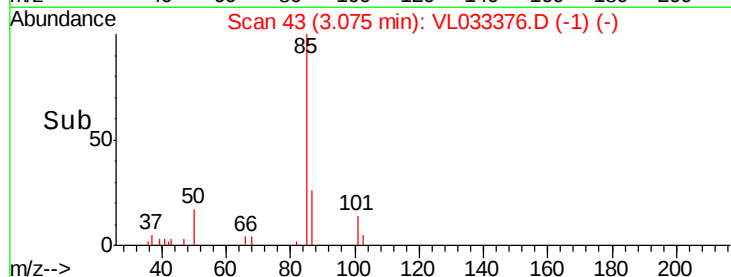
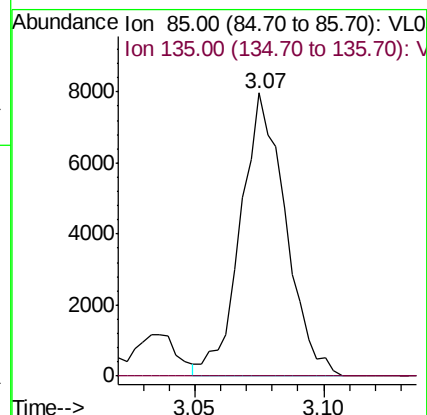
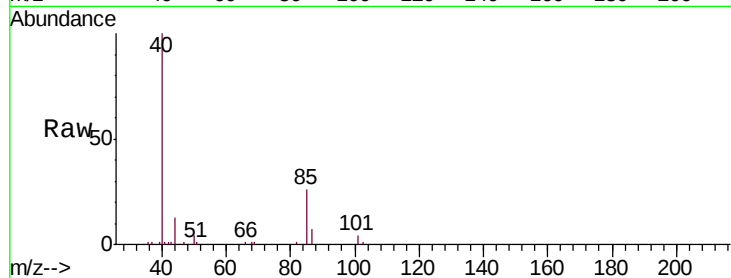
L1HA-IA3DL

Tgt Ion: 85 Resp: 9695

Ion Ratio Lower Upper

85 100

135 0.0 53.4 80.2#



#9

Propene

Concen: 0.580 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.20 min

Lab File: VL033376.D

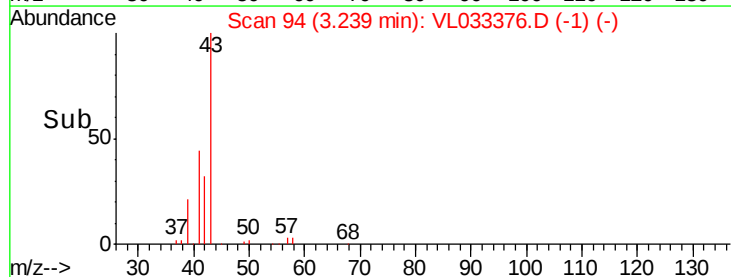
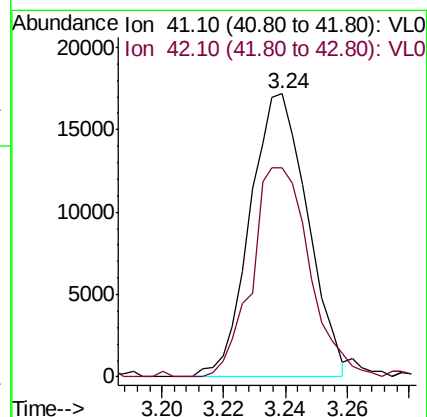
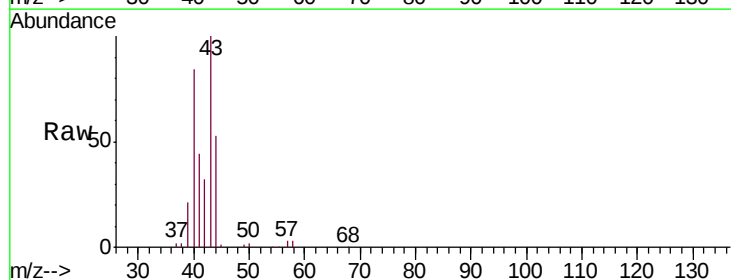
Acq: 19 Mar 2019 2:36

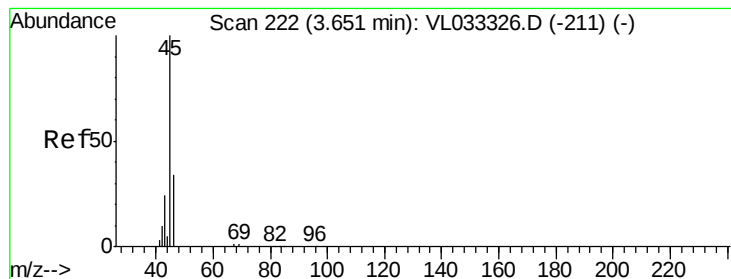
Tgt Ion: 41 Resp: 22200

Ion Ratio Lower Upper

41 100

42 75.9 55.2 82.8





#13

Ethanol

Concen: 36.496 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033376.D

Acq: 19 Mar 2019 2:36

Instrument :

MSVOA_L

ClientSampleId :

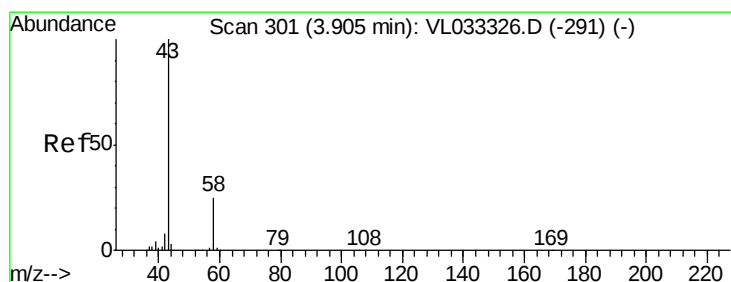
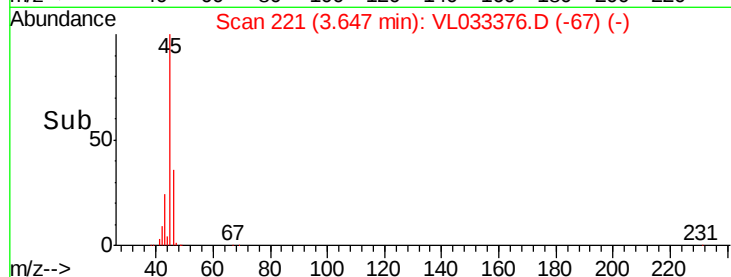
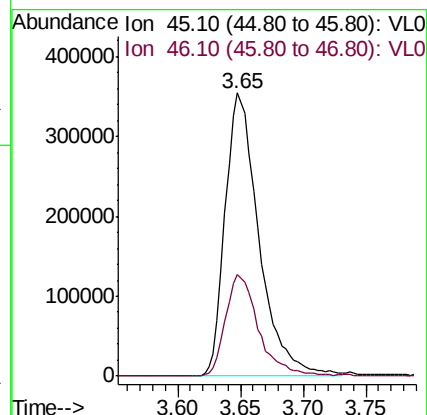
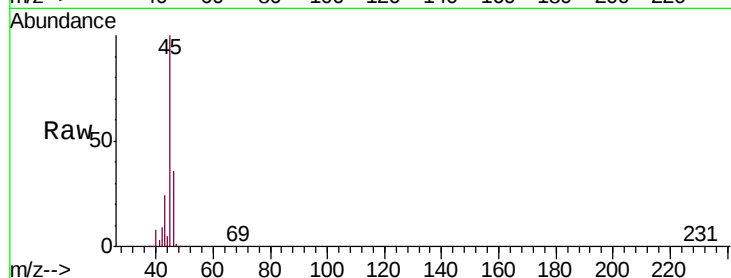
L1HA-IA3DL

Tgt Ion: 45 Resp: 666302

Ion Ratio Lower Upper

45 100

46 35.4 14.9 59.7



#15

Acetone

Concen: 1.716 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL033376.D

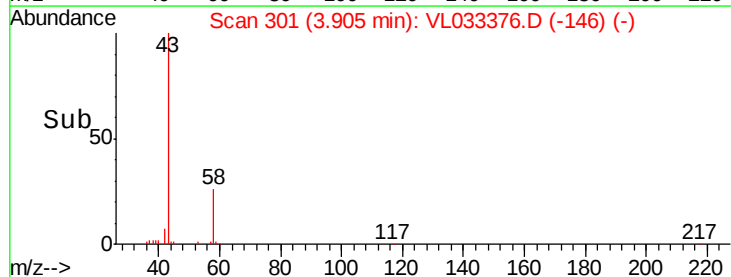
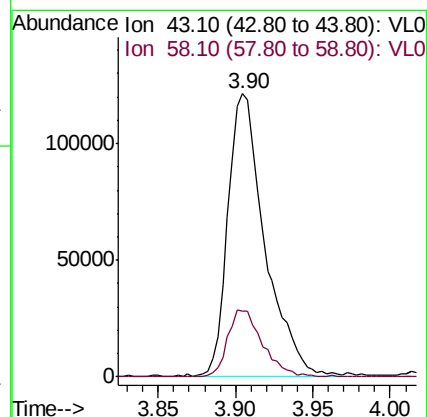
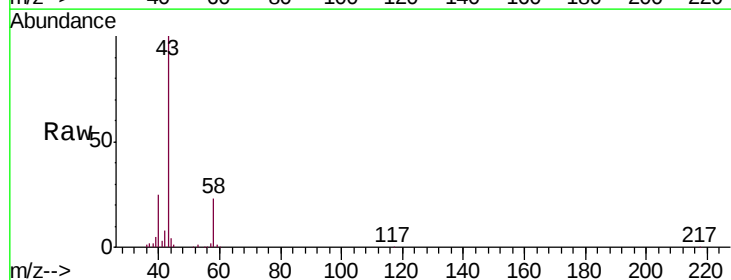
Acq: 19 Mar 2019 2:36

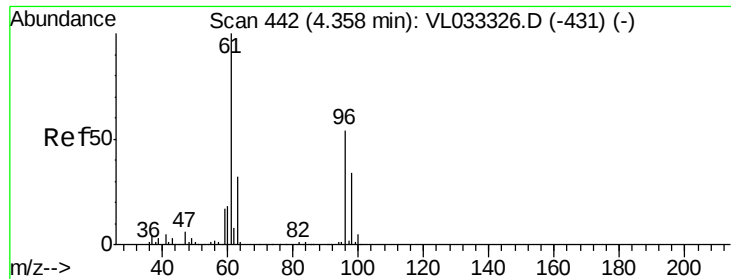
Tgt Ion: 43 Resp: 199343

Ion Ratio Lower Upper

43 100

58 22.9 20.4 30.6



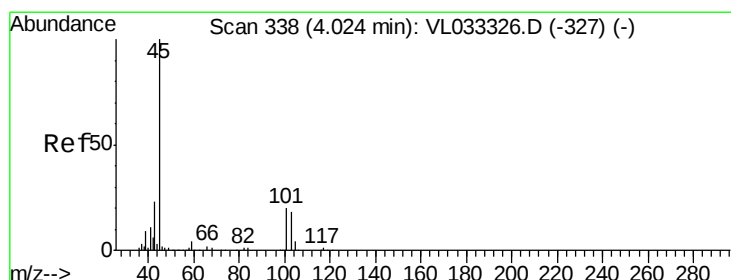
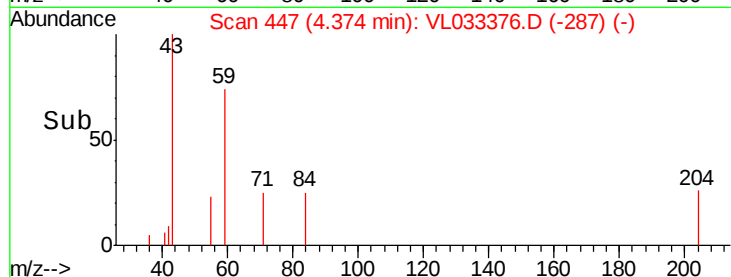
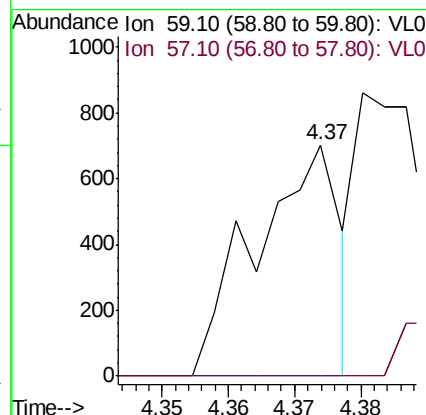
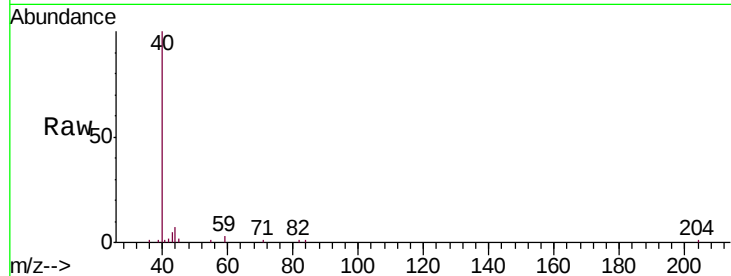


#17

tert-Butyl alcohol
Concen: 0.038 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.02 min
Lab File: VL033376.D
Acq: 19 Mar 2019 2:36

Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA3DL

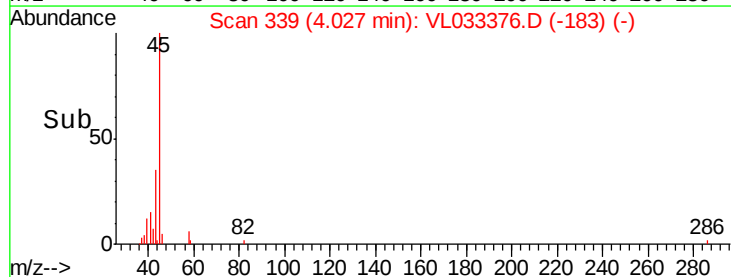
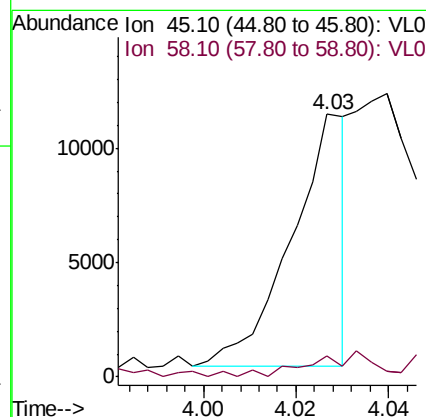
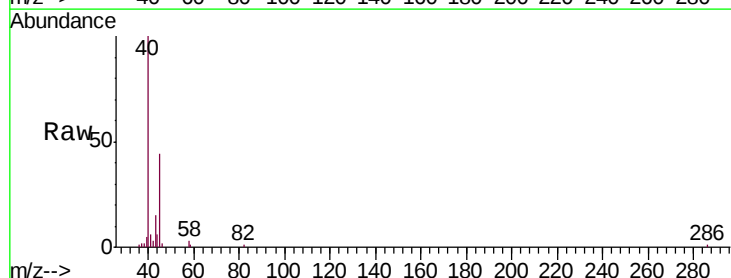
Tgt Ion: 59 Resp: 621
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#

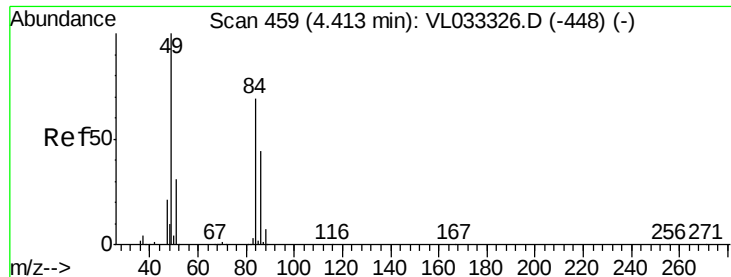


#19

Isopropyl Alcohol
Concen: 0.164 ppbv
RT: 4.03 min Scan# 339
Delta R.T. 0.00 min
Lab File: VL033376.D
Acq: 19 Mar 2019 2:36

Tgt Ion: 45 Resp: 9074
Ion Ratio Lower Upper
45 100
58 19.4 1.5 2.3#

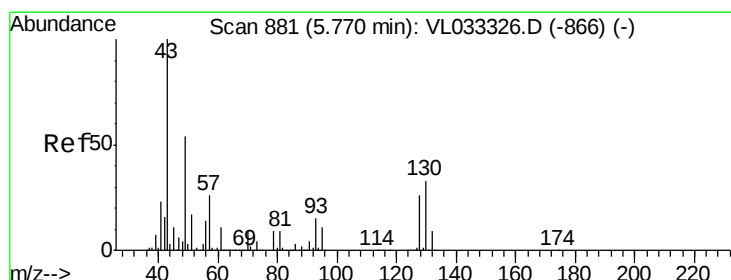
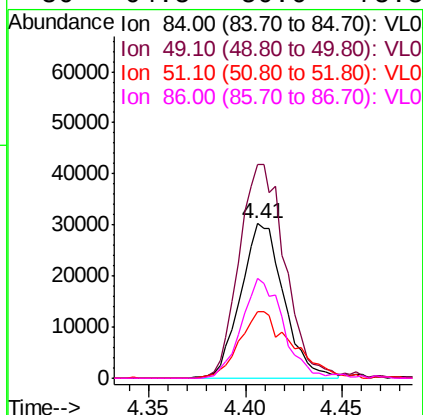
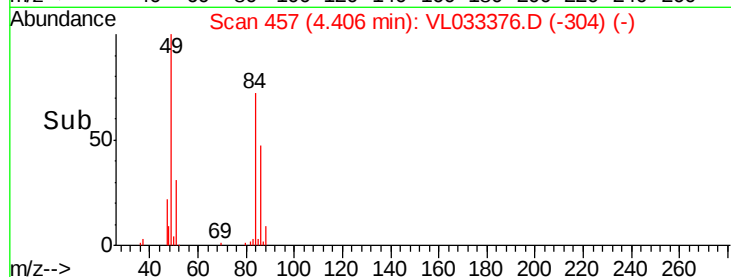
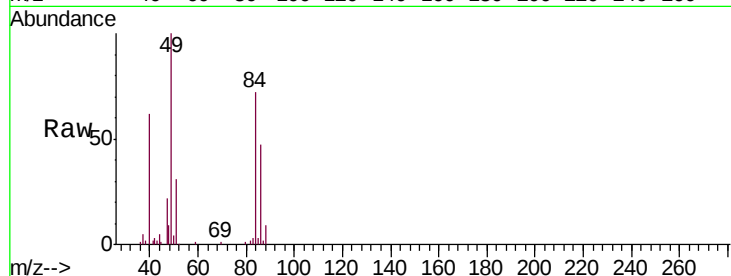




#20
Methylene Chloride
Concen: 1.239 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.01 min
Lab File: VL033376.D
Acq: 19 Mar 2019 2:36

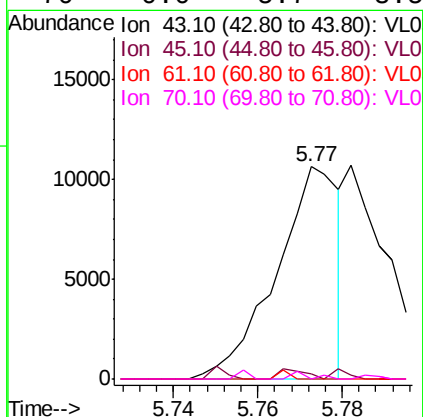
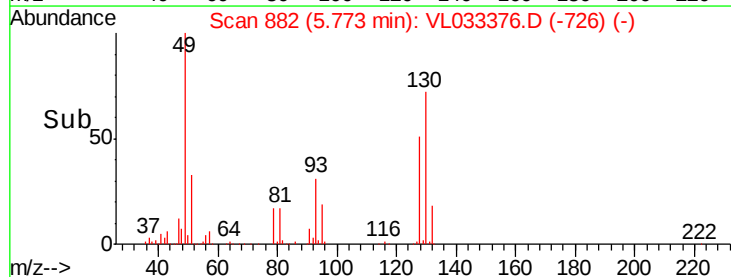
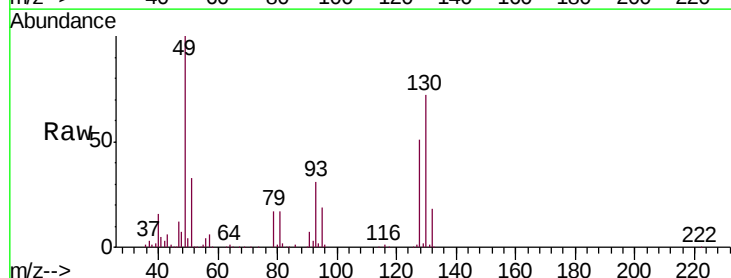
Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA3DL

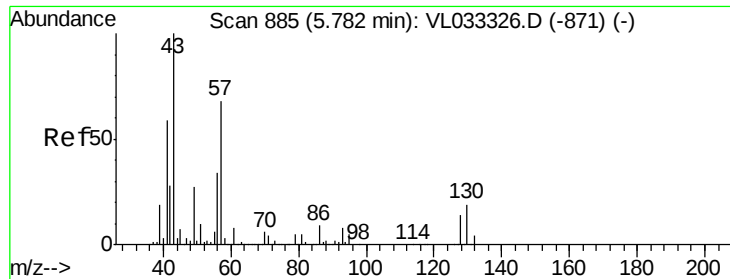
Tgt Ion: 84 Resp: 46960
Ion Ratio Lower Upper
84 100
49 138.4 115.4 173.0
51 43.4 35.8 53.6
86 64.5 50.6 75.8



#25
Ethyl Acetate
Concen: 0.065 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033376.D
Acq: 19 Mar 2019 2:36

Tgt Ion: 43 Resp: 10964
Ion Ratio Lower Upper
43 100
45 4.7 7.9 11.9#
61 0.0 7.4 11.2#
70 0.0 5.7 8.5#

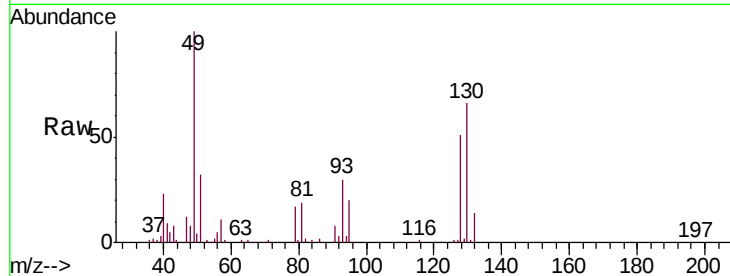




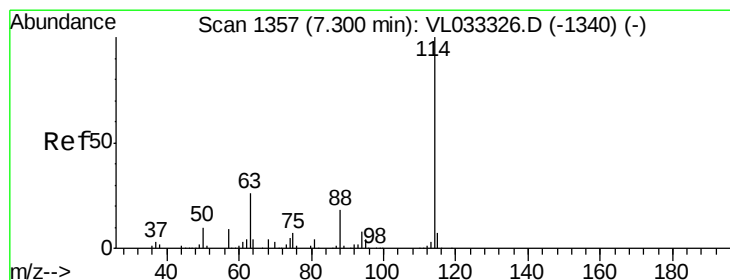
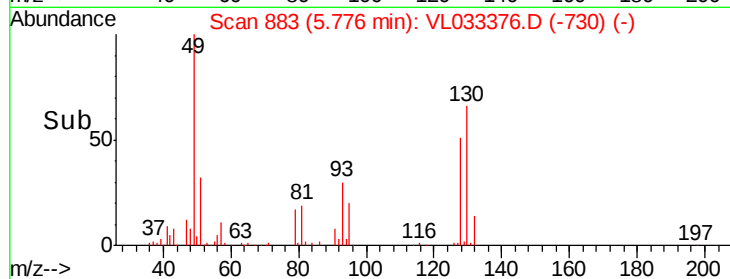
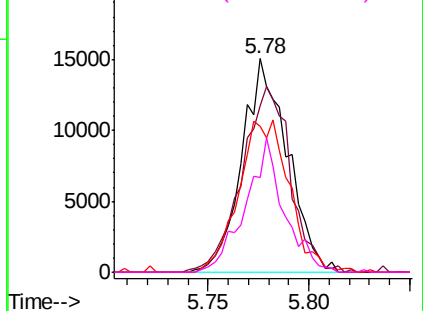
#26
Hexane
Concen: 0.315 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033376.D
Acq: 19 Mar 2019 2:36

Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA3DL

Tgt Ion: 57 Resp: 23776
Ion Ratio Lower Upper
57 100
41 92.7 70.5 105.7
43 79.2 181.8 272.8#
56 52.9 42.2 63.2

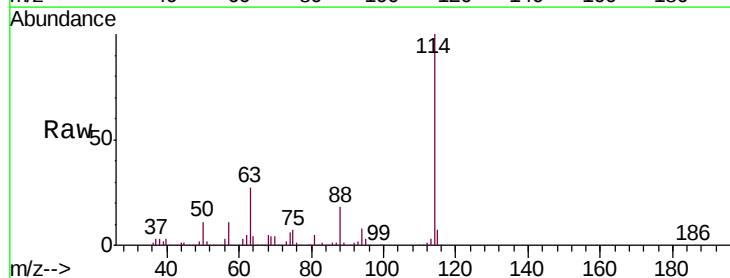


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

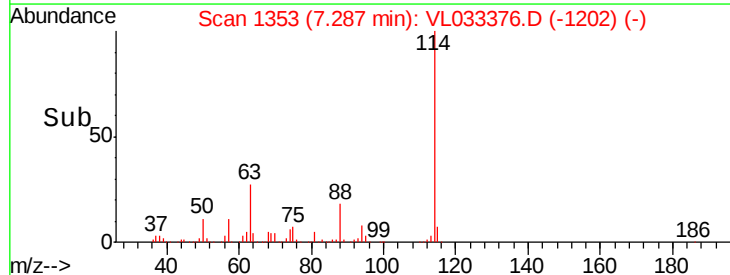
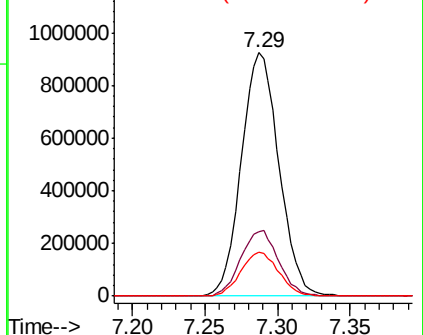


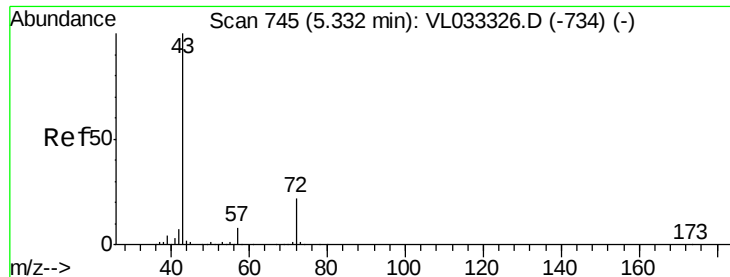
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033376.D
Acq: 19 Mar 2019 2:36

Tgt Ion: 114 Resp: 1665373
Ion Ratio Lower Upper
114 100
63 27.1 21.4 32.2
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

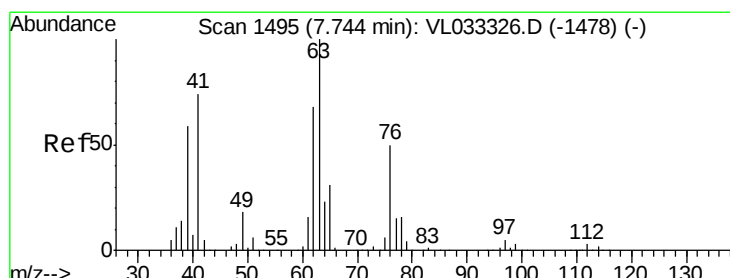
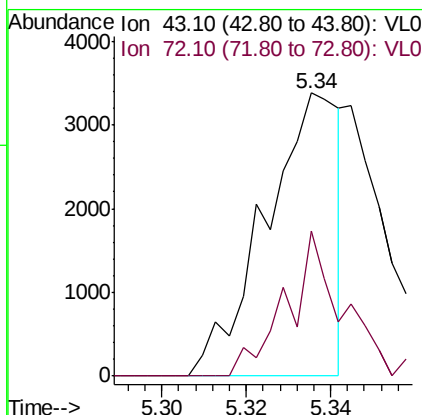
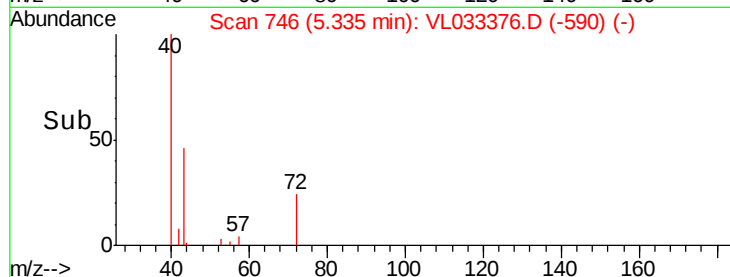
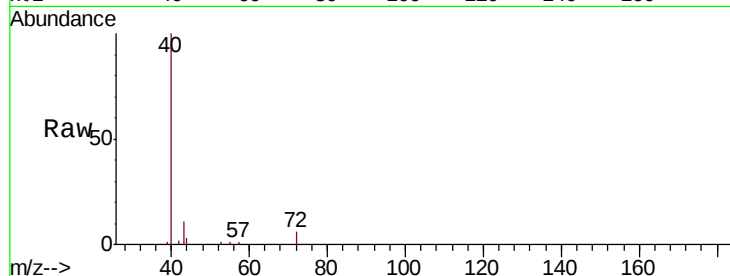




#34
2-Butanone
Concen: 0.037 ppbv
RT: 5.34 min Scan# 746
Delta R.T. 0.00 min
Lab File: VL033376.D
Acq: 19 Mar 2019 2:36

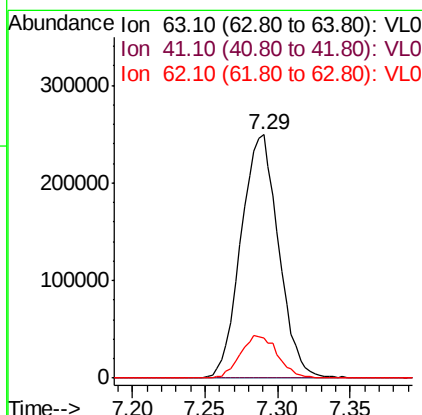
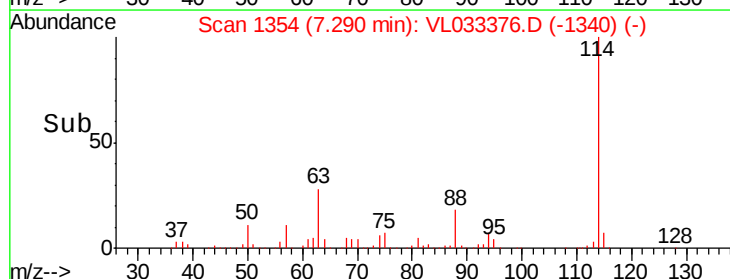
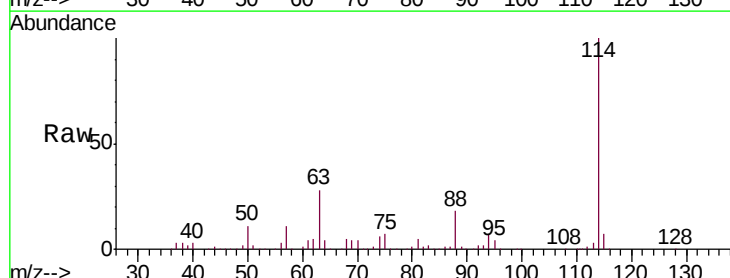
Instrument :
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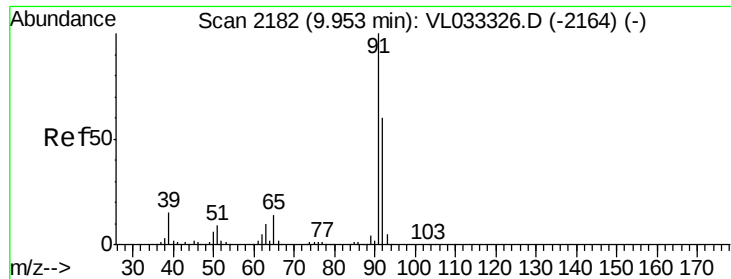
Tgt Ion: 43 Resp: 4101
Ion Ratio Lower Upper
43 100
72 39.8 17.7 26.5#



#39
1,2-Dichloropropane
Concen: 8.086 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.45 min
Lab File: VL033376.D
Acq: 19 Mar 2019 2:36

Tgt Ion: 63 Resp: 451331
Ion Ratio Lower Upper
63 100
41 0.0 59.5 89.3#
62 16.5 54.7 82.1#





#53

Toluene

Concen: 0.704 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033376.D

Acq: 19 Mar 2019 2:36

Instrument :

MSVOA_L

ClientSampleId :

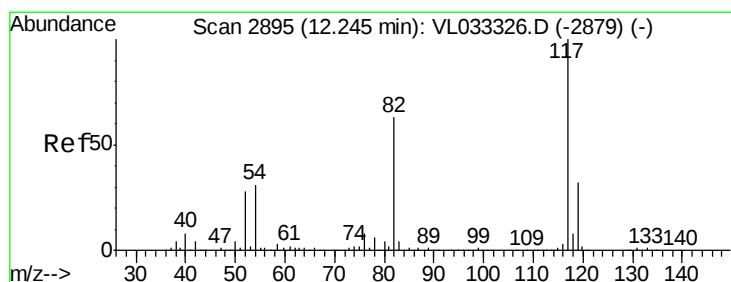
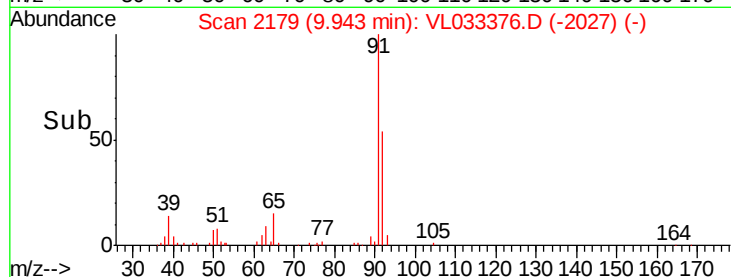
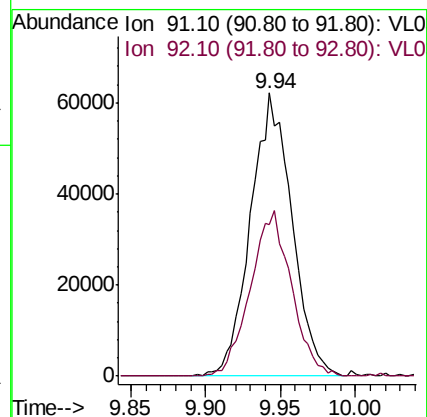
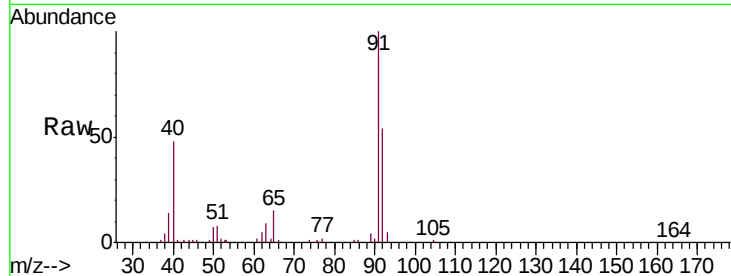
L1HA-IA3DL

Tgt Ion: 91 Resp: 119300

Ion Ratio Lower Upper

91 100

92 58.1 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033376.D

Acq: 19 Mar 2019 2:36

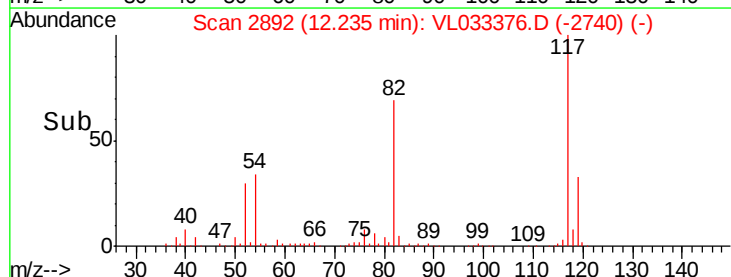
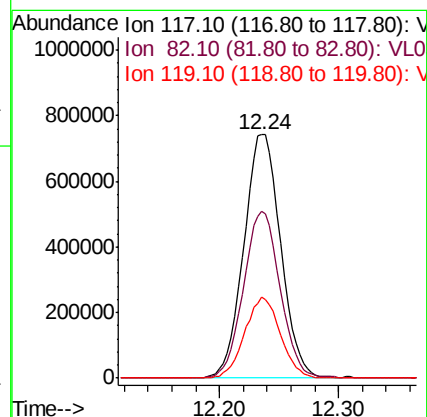
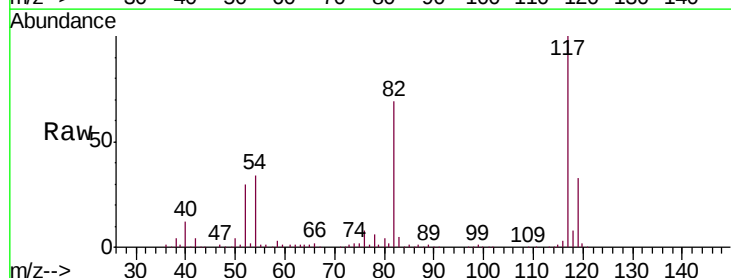
Tgt Ion: 117 Resp: 1592141

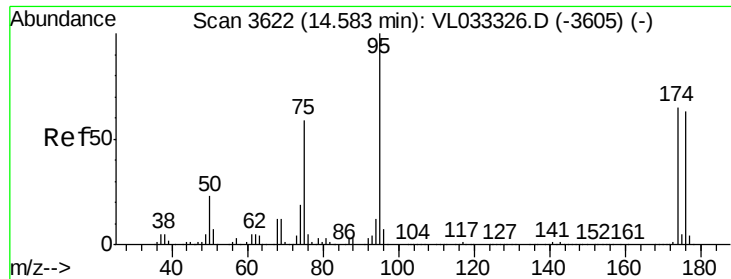
Ion Ratio Lower Upper

117 100

82 68.6 53.4 80.2

119 32.3 27.3 40.9





#68

1-Bromo-4-Fluorobenzene

Concen: 10.160 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033376.D

Acq: 19 Mar 2019 2:36

Instrument :

MSVOA_L

ClientSampleId :

L1HA-IA3DL

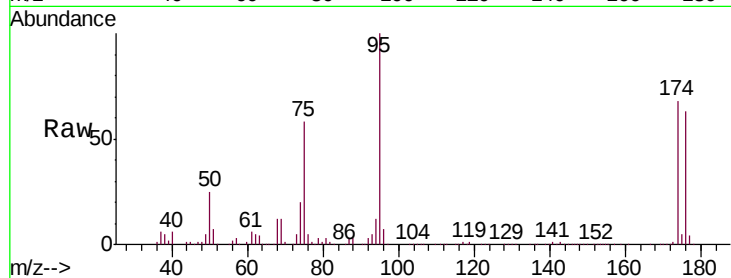
Tgt Ion: 95 Resp: 1198625

Ion Ratio Lower Upper

95 100

174 65.4 51.5 77.3

175 4.7 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

