

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL050219\
 Data File : VL033649.D
 Acq On : 3 May 2019 5:01
 Operator : SY/AP
 Sample : K2628-12DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-12DL

Quant Time: May 03 08:08:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 02 06:29:02 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

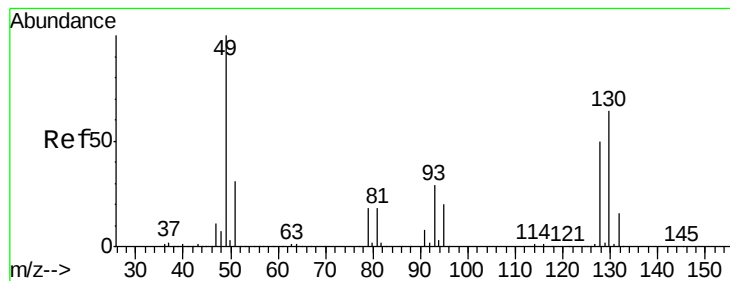
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	932805	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2267741	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2333428	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1918317	10.80	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	10713	0.076	ppbv	96
3) Chlorodifluoromethane	2.99	51	57045	0.511	ppbv #	64
4) Chloromethane	3.18	50	3111	0.051	ppbv #	75
9) Propene	3.24	41	6214	0.195	ppbv	91
13) Ethanol	3.65	45	61421	4.242	ppbv	94
15) Acetone	3.91	43	67727	0.596	ppbv	97
19) Isopropyl Alcohol	4.05	45	11369	0.146	ppbv #	83
20) Methylene Chloride	4.41	84	8372	0.189	ppbv	90
26) Hexane	5.77	57	4347	0.048	ppbv #	1
39) 1,2-Dichloropropane	7.29	63	608350	8.349	ppbv #	24
53) Toluene	9.94	91	73947	0.303	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. 0.00 min

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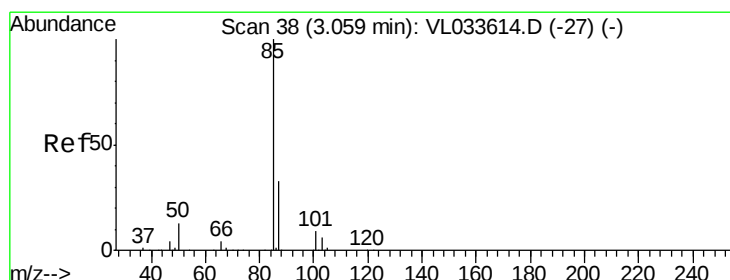
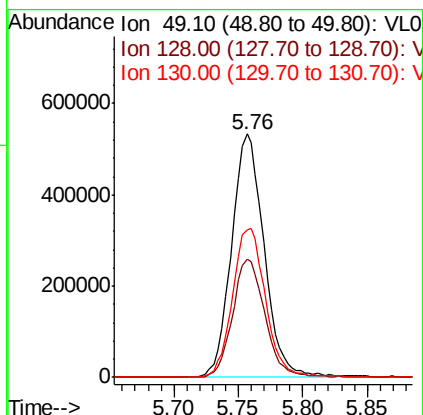
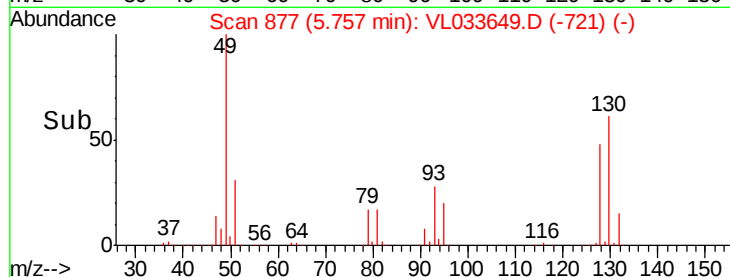
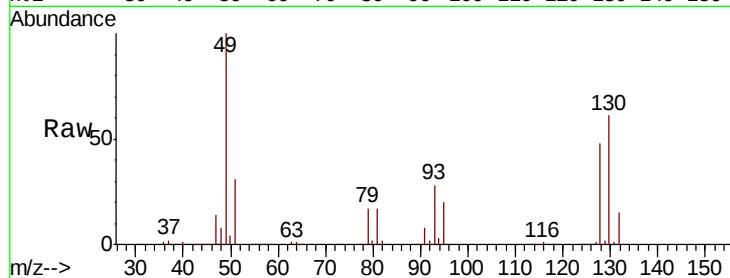
Tgt Ion: 49 Resp: 932805

Ion Ratio Lower Upper

49 100

128 48.9 25.0 75.0

130 63.1 31.9 95.9



#2

Dichlorodifluoromethane

Concen: 0.076 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.02 min

Lab File: VL033649.D

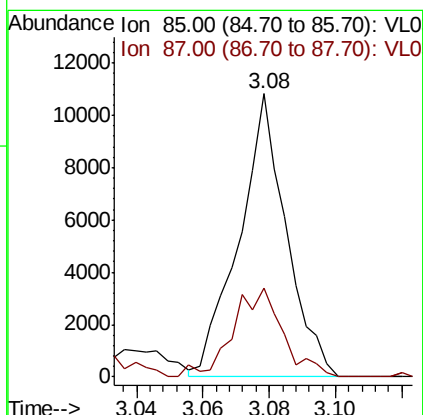
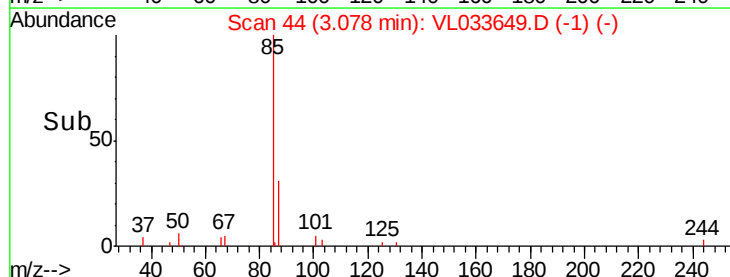
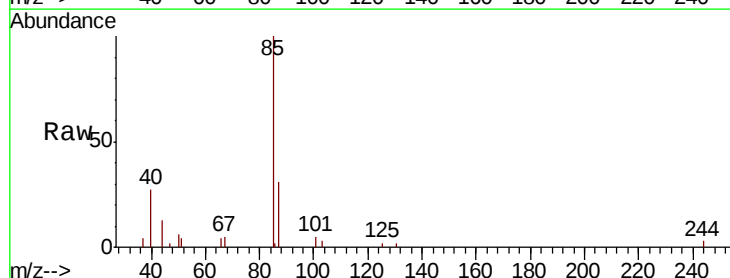
Acq: 3 May 2019 5:01

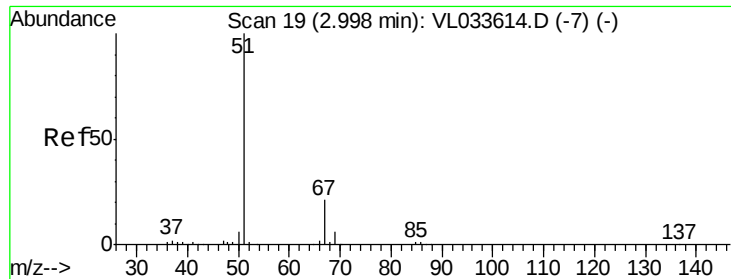
Tgt Ion: 85 Resp: 10713

Ion Ratio Lower Upper

85 100

87 31.5 26.8 40.2





#3

Chlorodifluoromethane

Concen: 0.511 ppbv

RT: 2.99 min Scan# 17

Delta R.T. -0.01 min

Lab File: VL033649.D

Acq: 3 May 2019 5:01

Instrument :

MSVOA_L

ClientSampleId :

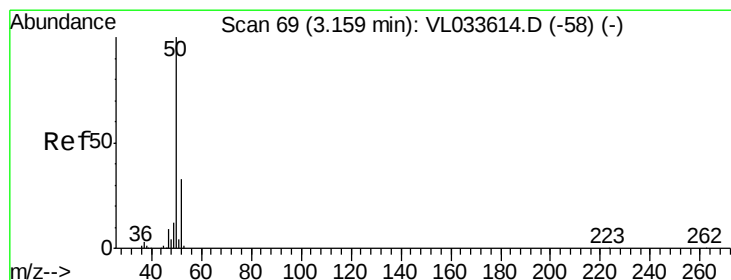
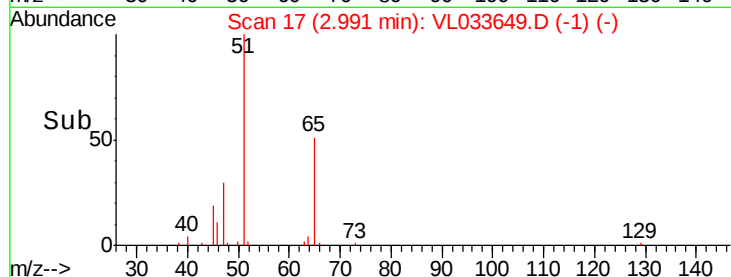
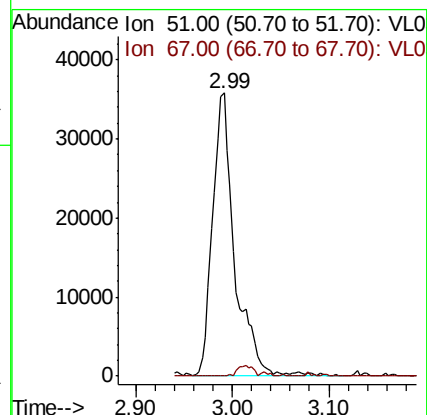
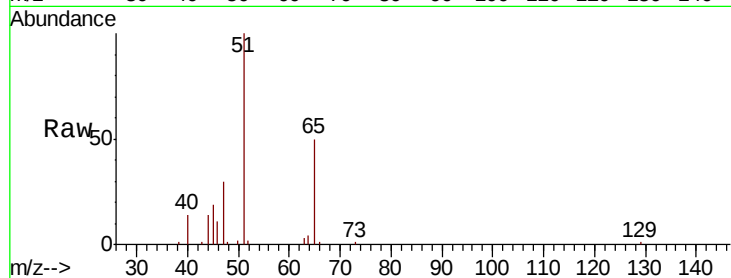
A-12DL

Tgt Ion: 51 Resp: 57045

Ion Ratio Lower Upper

51 100

67 3.2 15.6 23.4#



#4

Chloromethane

Concen: 0.051 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL033649.D

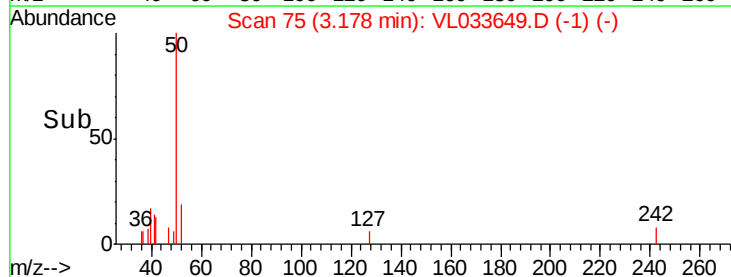
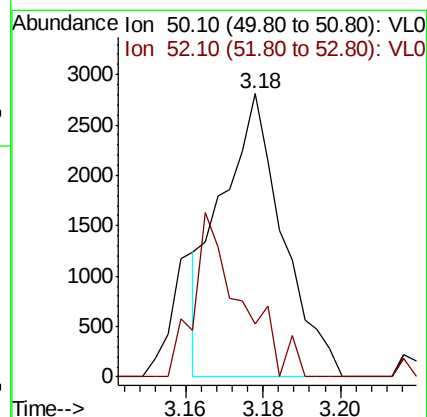
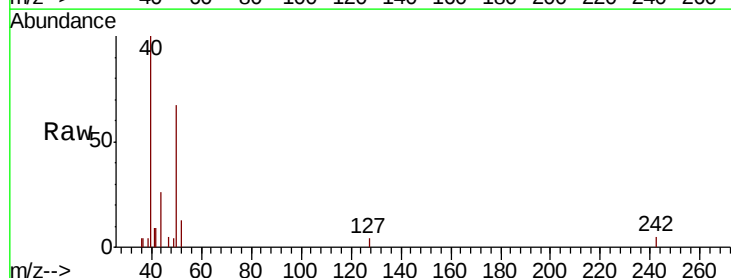
Acq: 3 May 2019 5:01

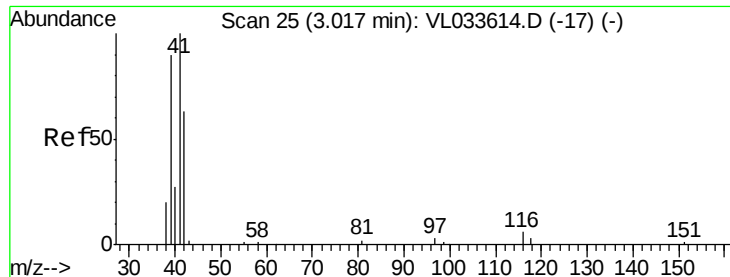
Tgt Ion: 50 Resp: 3111

Ion Ratio Lower Upper

50 100

52 18.7 26.0 39.0#





#9

Propene

Concen: 0.195 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.22 min

Lab File: VL033649.D

Acq: 3 May 2019 5:01

Instrument :

MSVOA_L

ClientSampleId :

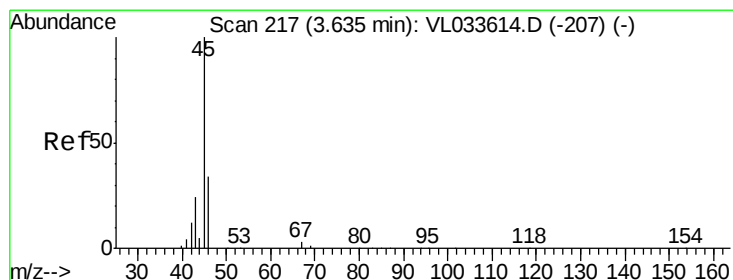
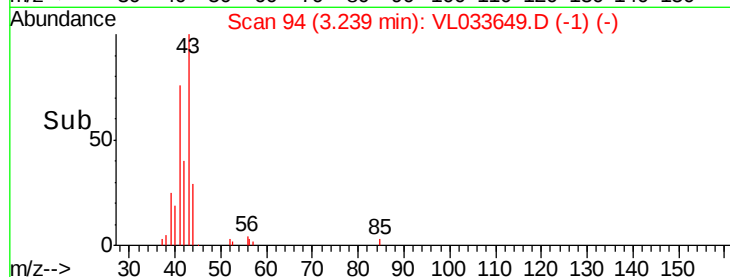
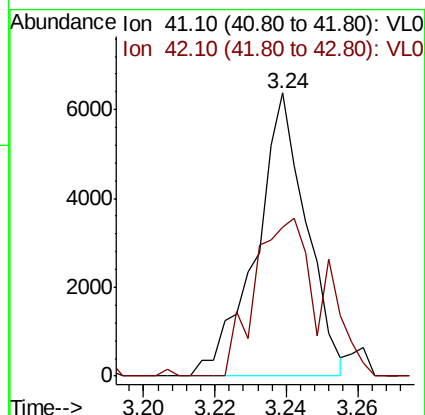
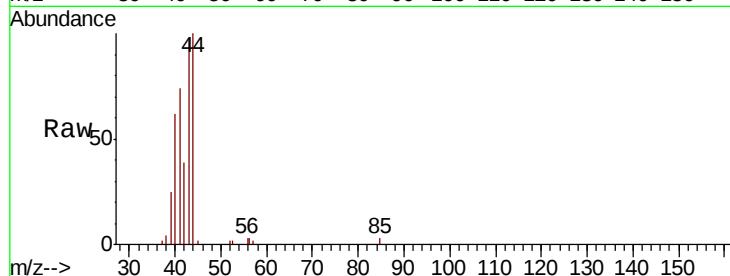
A-12DL

Tgt Ion: 41 Resp: 6214

Ion Ratio Lower Upper

41 100

42 74.4 66.0 99.0



#13

Ethanol

Concen: 4.242 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.02 min

Lab File: VL033649.D

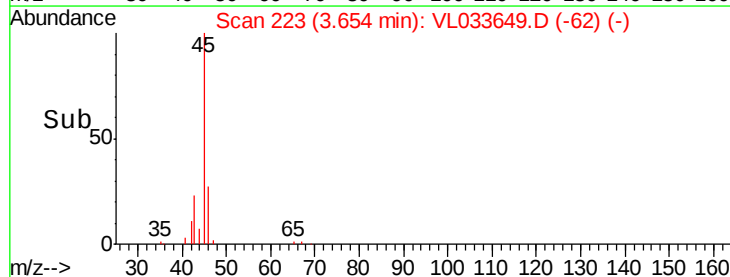
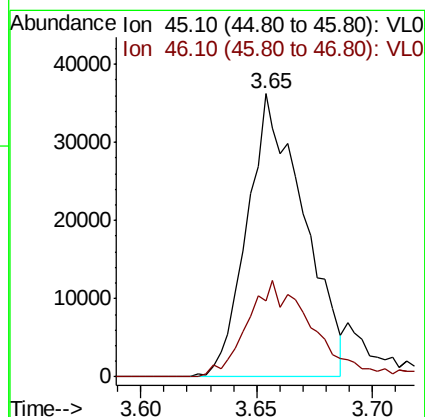
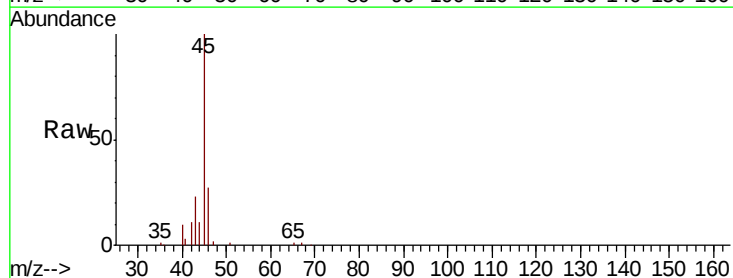
Acq: 3 May 2019 5:01

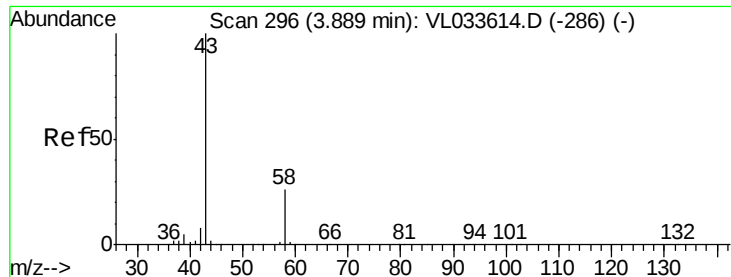
Tgt Ion: 45 Resp: 61421

Ion Ratio Lower Upper

45 100

46 40.1 14.6 58.2





#15

Acetone

Concen: 0.596 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.02 min

Lab File: VL033649.D

Acq: 3 May 2019 5:01

Instrument :

MSVOA_L

ClientSampleId :

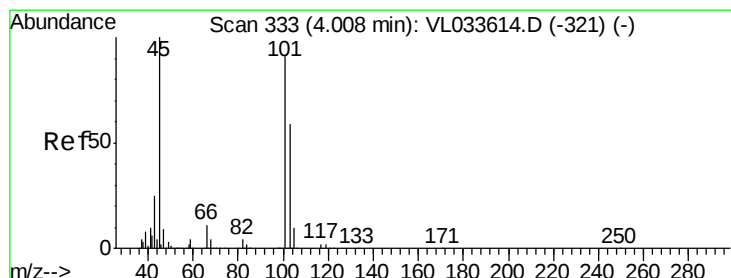
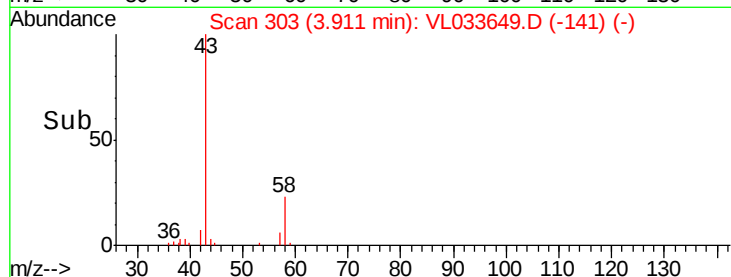
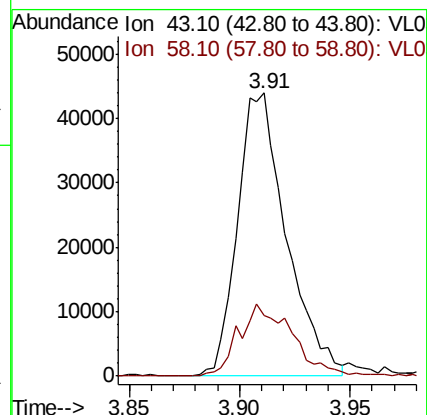
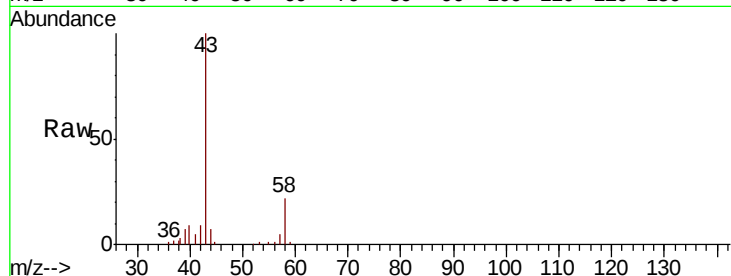
A-12DL

Tgt Ion: 43 Resp: 67727

Ion Ratio Lower Upper

43 100

58 28.0 21.2 31.8



#19

Isopropyl Alcohol

Concen: 0.146 ppbv

RT: 4.05 min Scan# 346

Delta R.T. 0.04 min

Lab File: VL033649.D

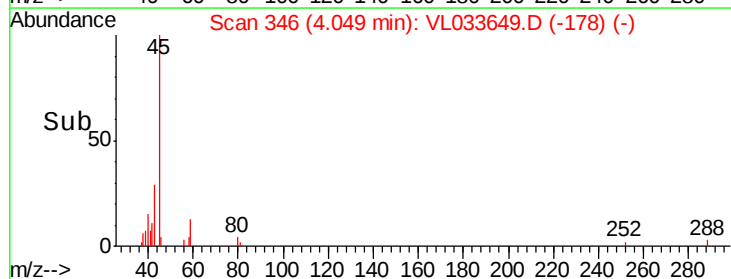
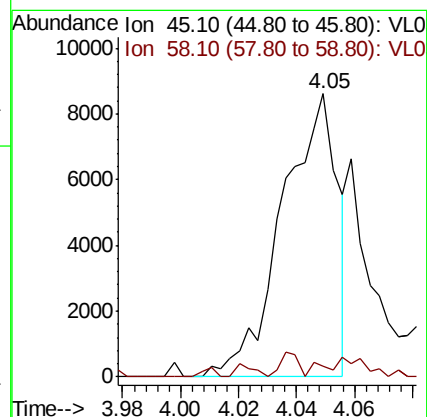
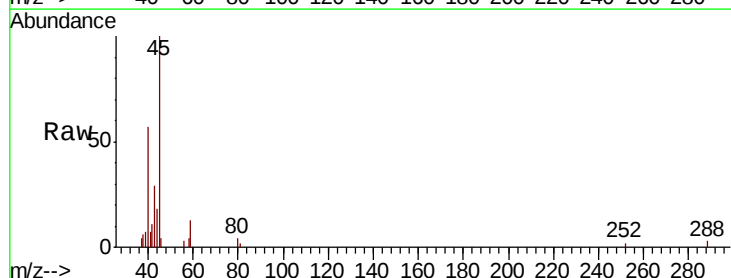
Acq: 3 May 2019 5:01

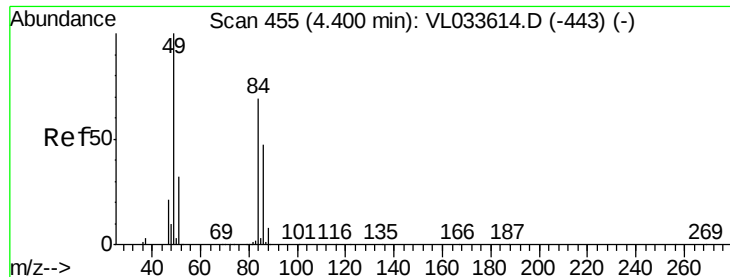
Tgt Ion: 45 Resp: 11369

Ion Ratio Lower Upper

45 100

58 8.2 1.8 2.6#

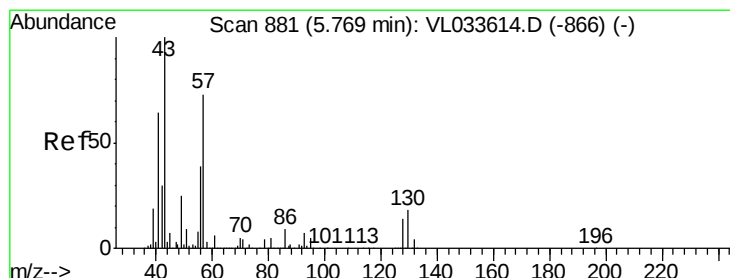
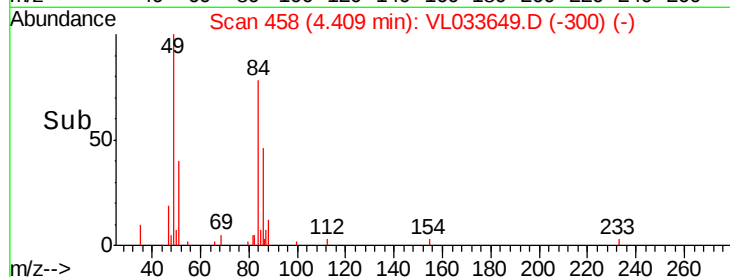
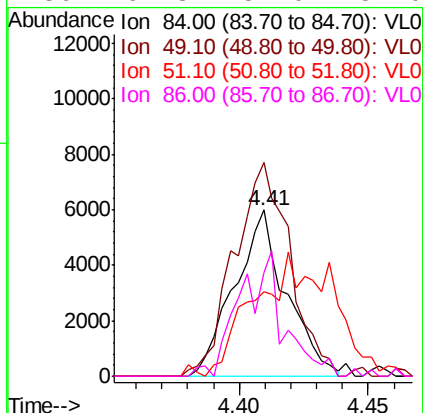
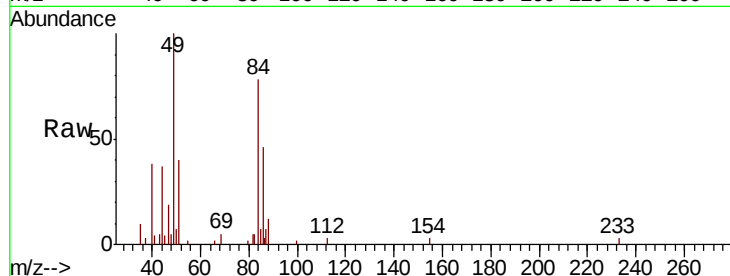




#20
Methylene Chloride
Concen: 0.189 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.01 min
Lab File: VL033649.D
Acq: 3 May 2019 5:01

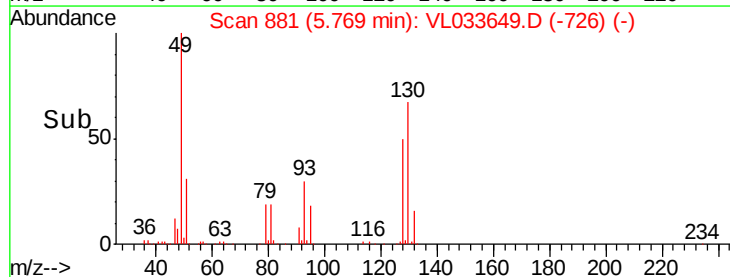
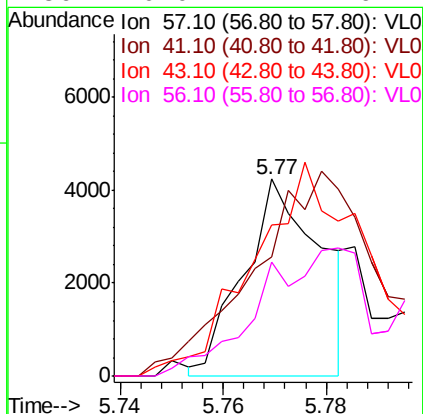
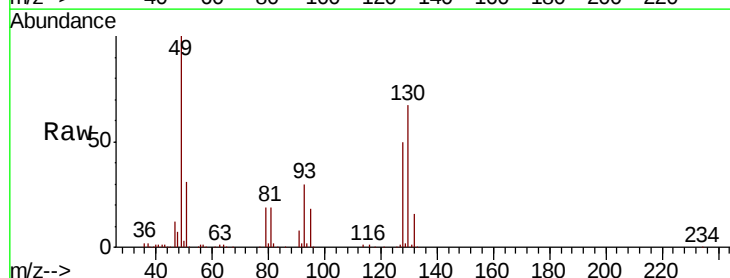
Instrument :
MSVOA_L
ClientSampleId :
A-12DL

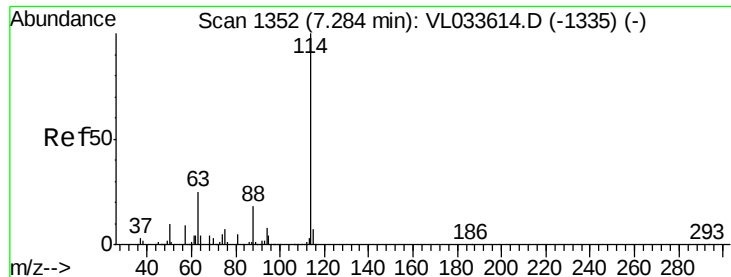
Tgt Ion: 84 Resp: 8372
Ion Ratio Lower Upper
84 100
49 128.6 116.2 174.2
51 44.6 37.0 55.6
86 62.3 54.0 81.0



#26
Hexane
Concen: 0.048 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.00 min
Lab File: VL033649.D
Acq: 3 May 2019 5:01

Tgt Ion: 57 Resp: 4347
Ion Ratio Lower Upper
57 100
41 0.0 70.6 106.0#
43 0.0 186.0 279.0#
56 0.0 42.7 64.1#

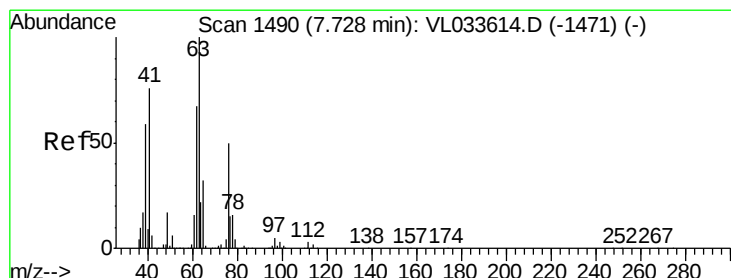
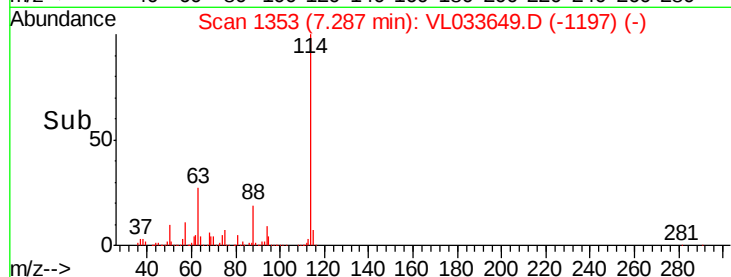
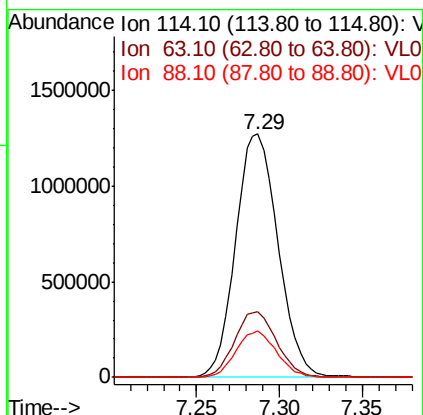
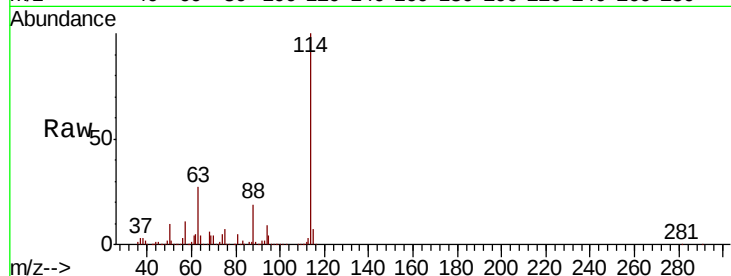




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. 0.00 min
 Lab File: VL033649.D
 Acq: 3 May 2019 5:01

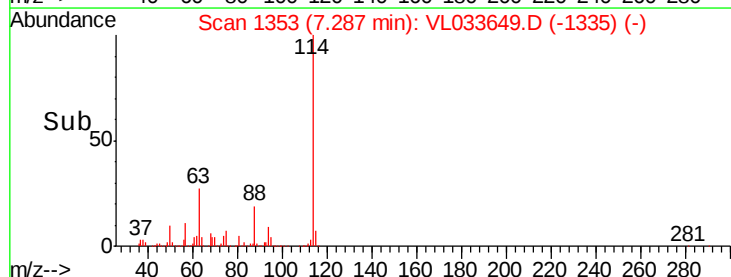
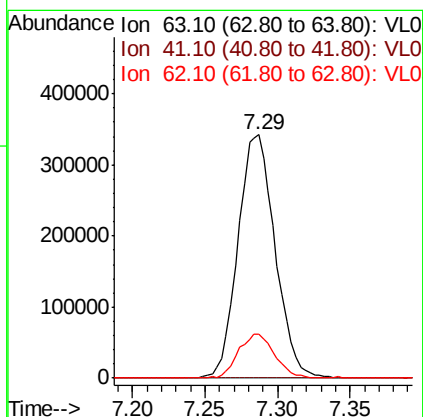
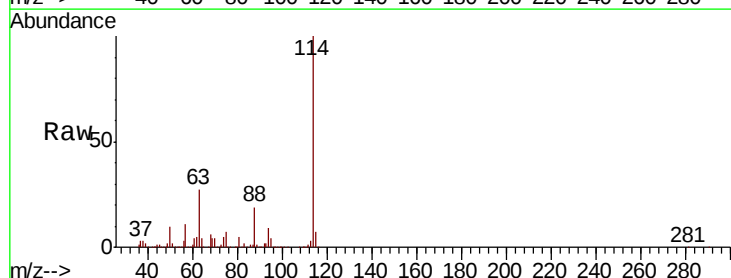
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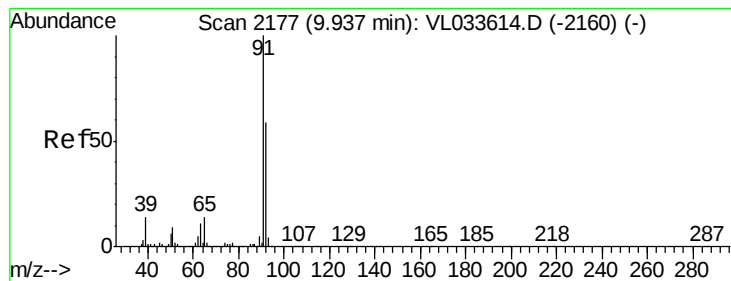
Tgt Ion: 114 Resp: 2267741
 Ion Ratio Lower Upper
 114 100
 63 26.9 21.1 31.7
 88 18.3 14.2 21.4



#39
 1,2-Dichloropropane
 Concen: 8.349 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.44 min
 Lab File: VL033649.D
 Acq: 3 May 2019 5:01

Tgt Ion: 63 Resp: 608350
 Ion Ratio Lower Upper
 63 100
 41 0.0 60.9 91.3#
 62 17.8 53.3 79.9#





#53

Toluene

Concen: 0.303 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. 0.01 min

Lab File: VL033649.D

Acq: 3 May 2019 5:01

Instrument :

MSVOA_L

ClientSampleId :

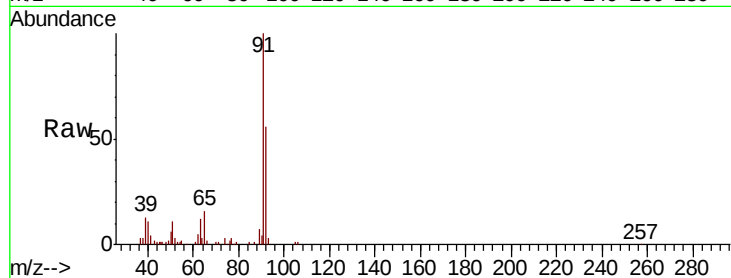
A-12DL

Tgt Ion: 91 Resp: 73947

Ion Ratio Lower Upper

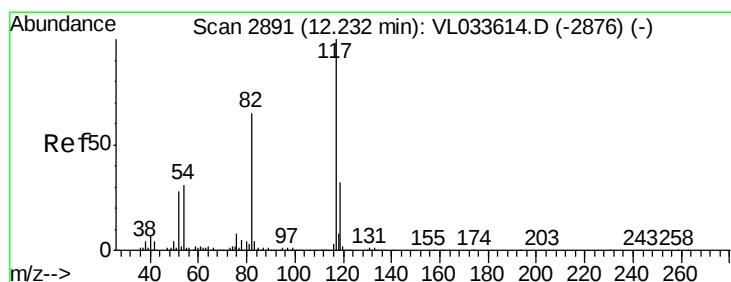
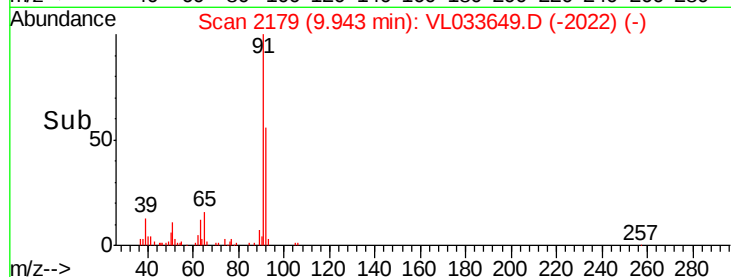
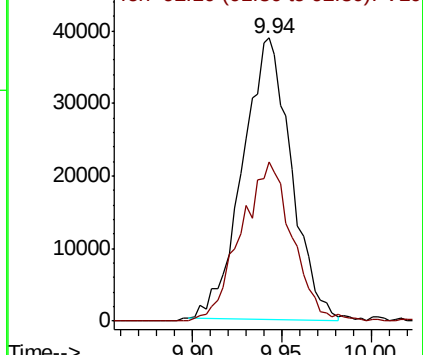
91 100

92 59.9 47.8 71.6



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: 12.23 min Scan# 2891

Delta R.T. -0.00 min

Lab File: VL033649.D

Acq: 3 May 2019 5:01

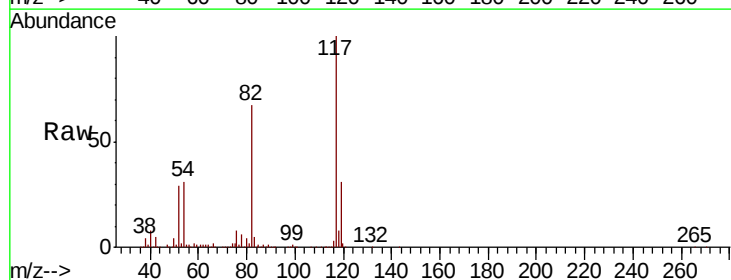
Tgt Ion: 117 Resp: 2333428

Ion Ratio Lower Upper

117 100

82 68.5 52.6 78.8

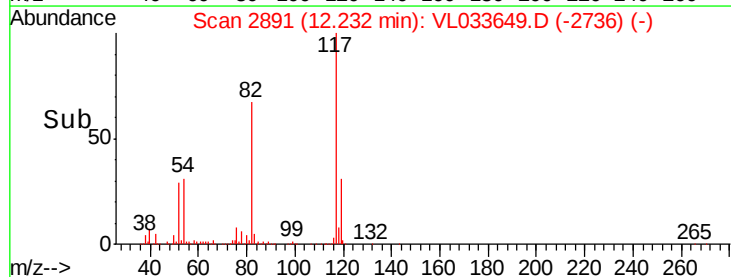
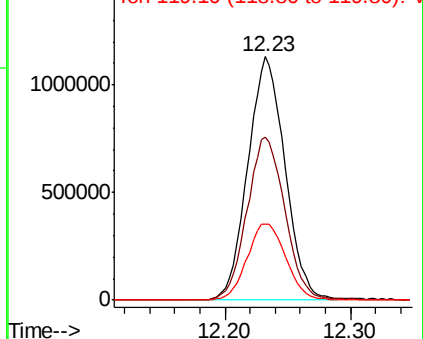
119 33.0 28.3 42.5

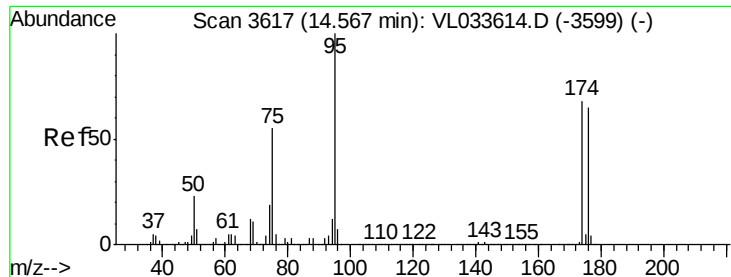


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.799 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. 0.00 min

Lab File: VL033649.D

Acq: 3 May 2019 5:01

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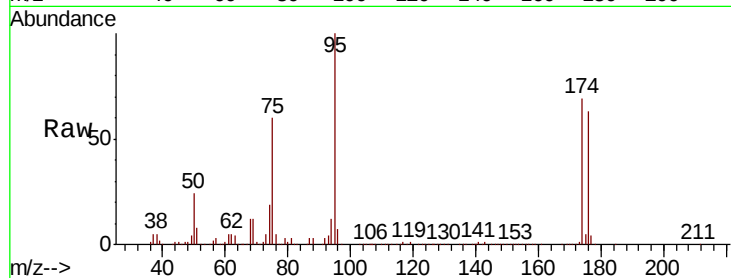
Tgt Ion: 95 Resp: 1918317

Ion Ratio Lower Upper

95 100

174 67.1 53.9 80.9

175 4.7 4.0 6.0



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

