

Data File : VL033374.D
Acq On : 19 Mar 2019 1:17
Operator : SY/AP
Sample : K1952-04DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA2DL

Quant Time: Mar 19 06:57:55 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	772669	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1723087	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	1670395	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 1273407 10.29 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.90%

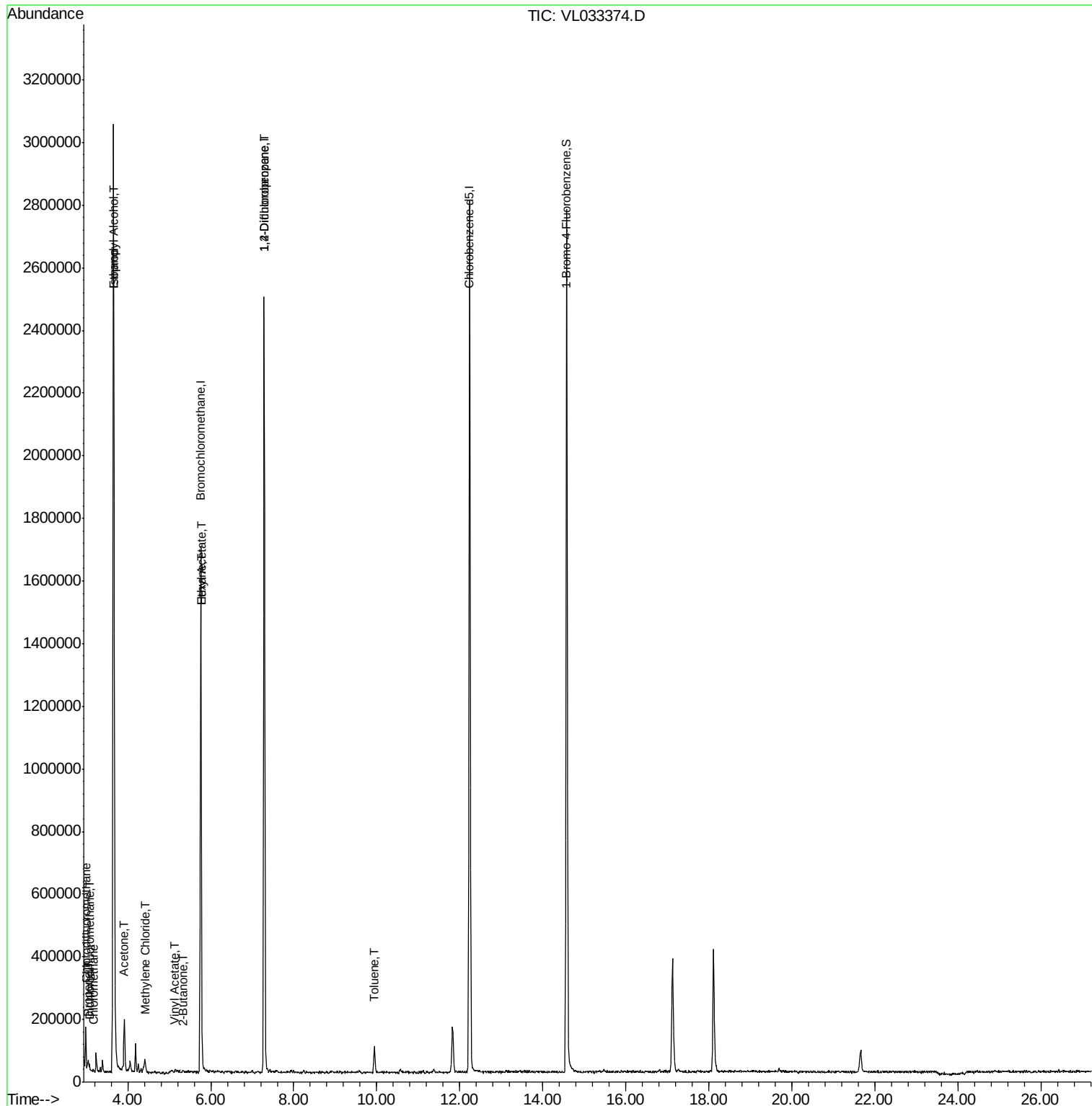
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	9357	0.069	ppbv	98
3) Chlorodifluoromethane	2.99	51	11989	0.135	ppbv #	79
4) Chloromethane	3.17	50	1705	0.036	ppbv	96
9) Propene	3.03	41	1255	0.032	ppbv #	15
13) Ethanol	3.66	45	3863667	204.718	ppbv	98
15) Acetone	3.91	43	163322	1.360	ppbv	91
19) Isopropyl Alcohol	3.66	45	3863667	67.625	ppbv #	95
20) Methylene Chloride	4.41	84	11585	0.296	ppbv #	85
23) Vinyl Acetate	5.15	43	5480	0.039	ppbv #	95
25) Ethyl Acetate	5.78	43	13368	0.077	ppbv #	88
26) Hexane	5.78	57	8763	0.112	ppbv #	69
34) 2-Butanone	5.34	43	4988	0.044	ppbv #	84
39) 1,2-Dichloropropane	7.28	63	454223	7.865	ppbv #	26
53) Toluene	9.95	91	60152	0.343	ppbv	96

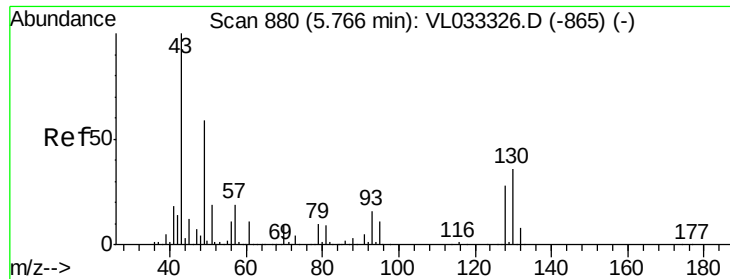
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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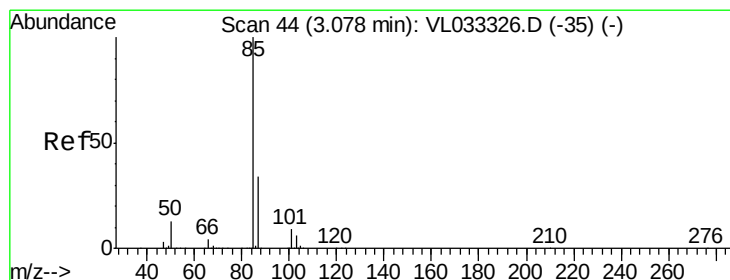
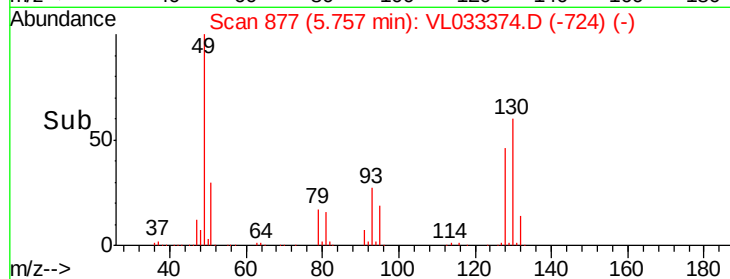
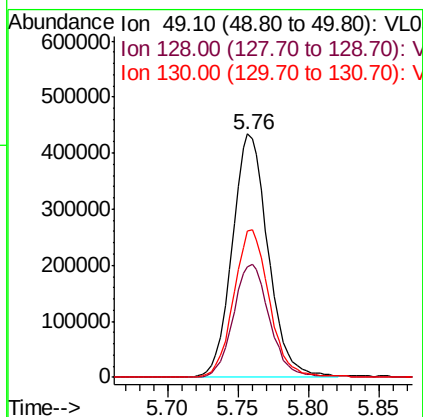
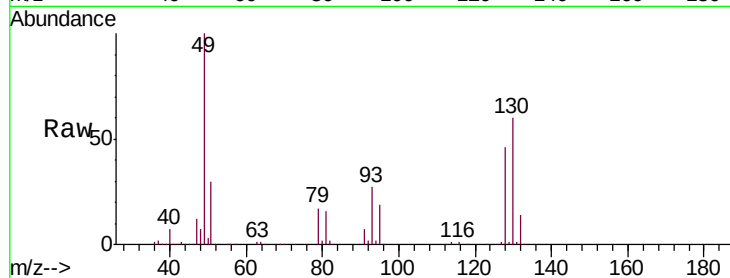




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 877
 Delta R.T. -0.01 min
 Lab File: VL033374.D
 Acq: 19 Mar 2019 1:17

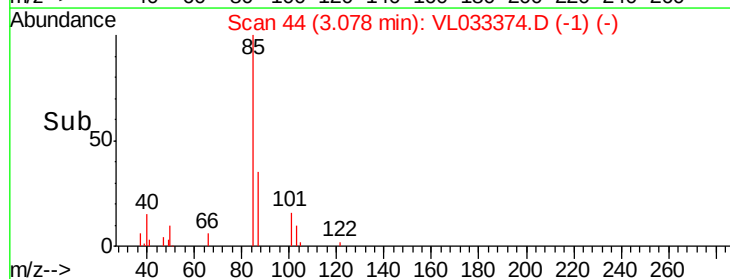
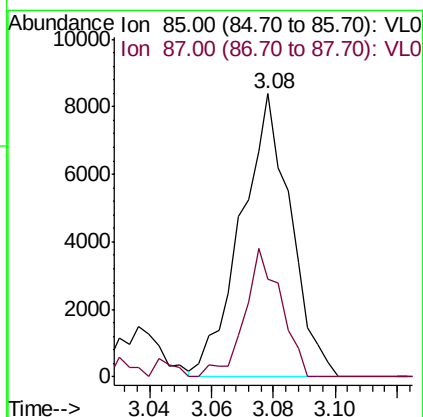
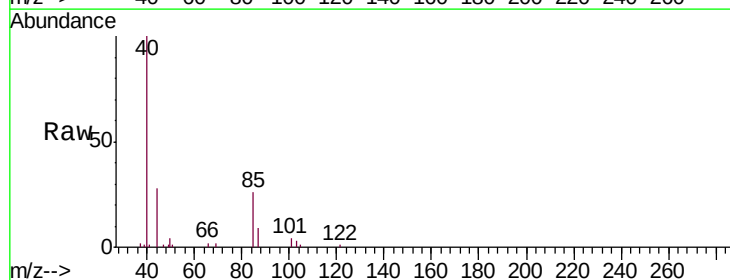
Instrument :
 MSVOA_L
 ClientSampleID :
 L1HA-IA2DL

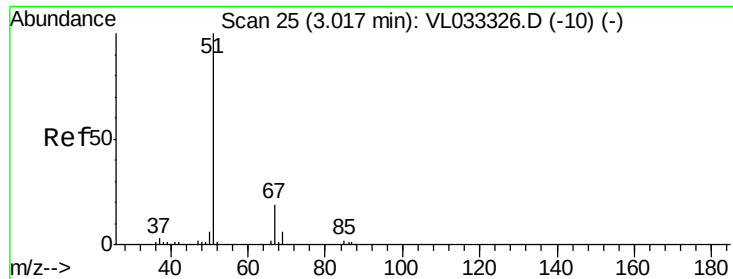
Tgt Ion: 49 Resp: 772669
 Ion Ratio Lower Upper
 49 100
 128 47.1 23.5 70.6
 130 60.7 30.1 90.3



#2
 Dichlorodifluoromethane
 Concen: 0.069 ppbv
 RT: 3.08 min Scan# 44
 Delta R.T. -0.00 min
 Lab File: VL033374.D
 Acq: 19 Mar 2019 1:17

Tgt Ion: 85 Resp: 9357
 Ion Ratio Lower Upper
 85 100
 87 34.8 26.9 40.3





#3

Chlorodifluoromethane

Concen: 0.135 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.03 min

Lab File: VL033374.D

Acq: 19 Mar 2019 1:17

Instrument :

MSVOA_L

ClientSampleId :

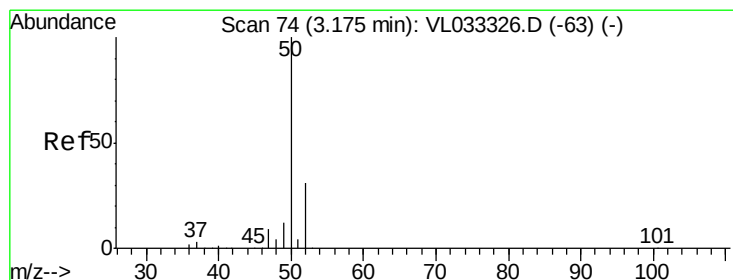
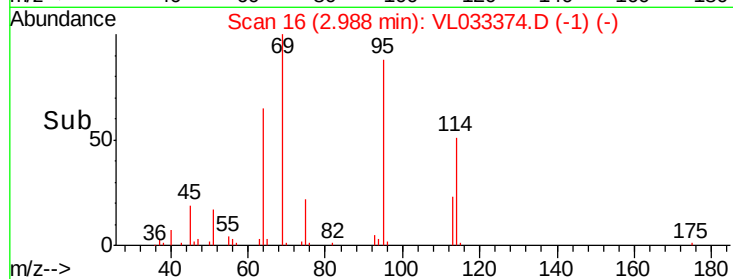
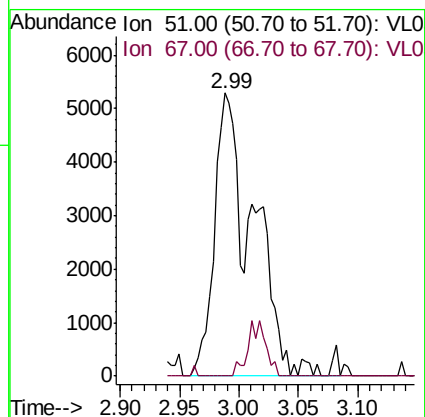
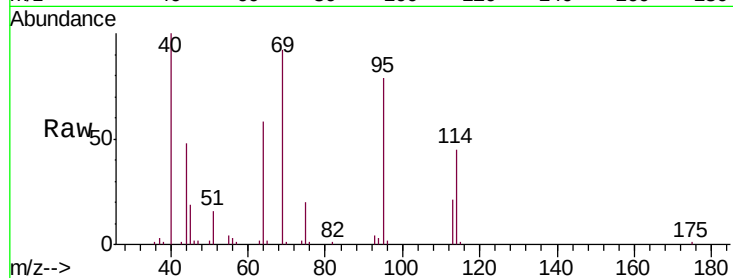
L1HA-IA2DL

Tgt Ion: 51 Resp: 11989

Ion Ratio Lower Upper

51 100

67 9.0 14.9 22.3#



#4

Chloromethane

Concen: 0.036 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL033374.D

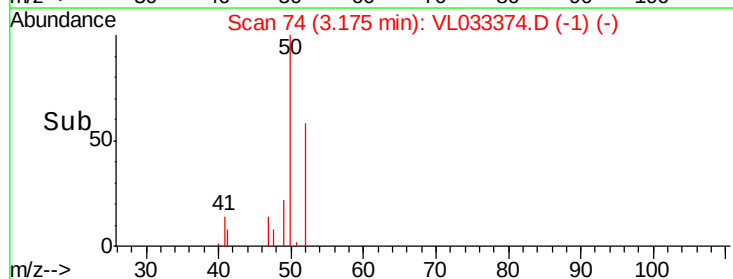
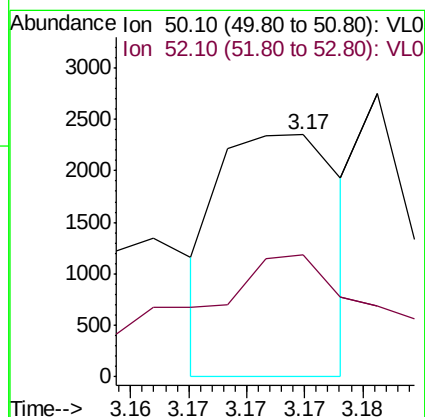
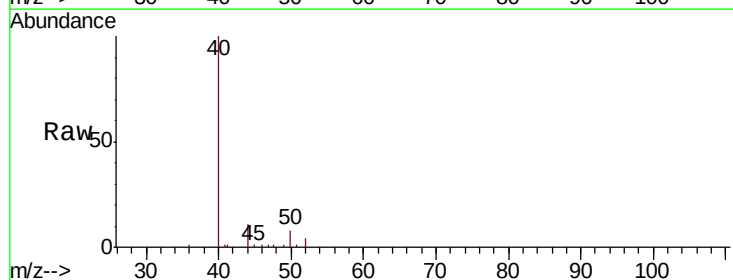
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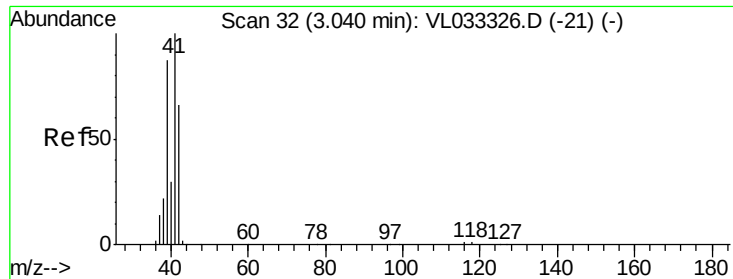
Tgt Ion: 50 Resp: 1705

Ion Ratio Lower Upper

50 100

52 33.8 25.0 37.6





#9

Propene

Concen: 0.032 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL033374.D

Acq: 19 Mar 2019 1:17

Instrument :

MSVOA_L

ClientSampleId :

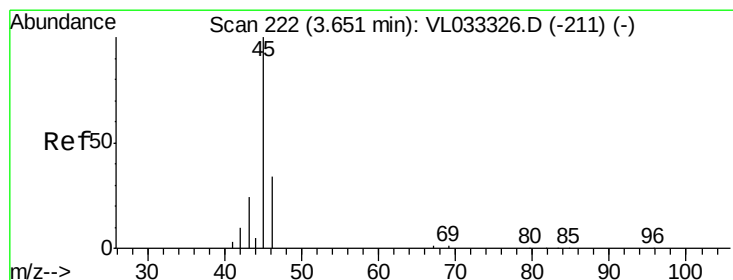
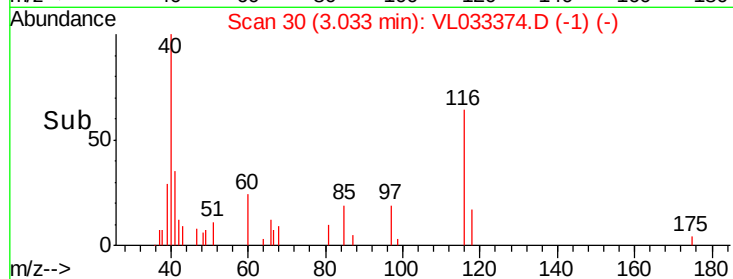
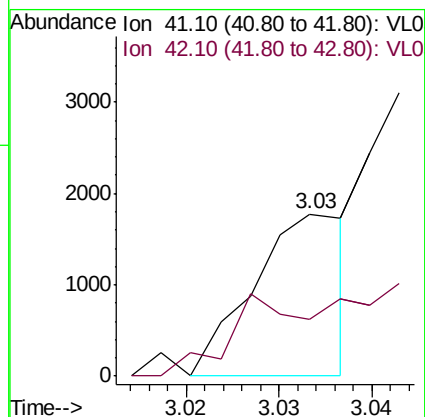
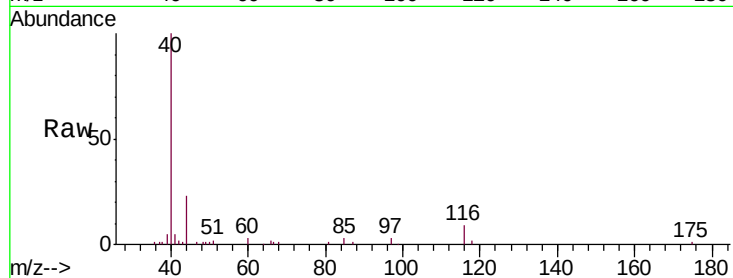
L1HA-IA2DL

Tgt Ion: 41 Resp: 1255

Ion Ratio Lower Upper

41 100

42 0.0 55.2 82.8#



#13

Ethanol

Concen: 204.718 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033374.D

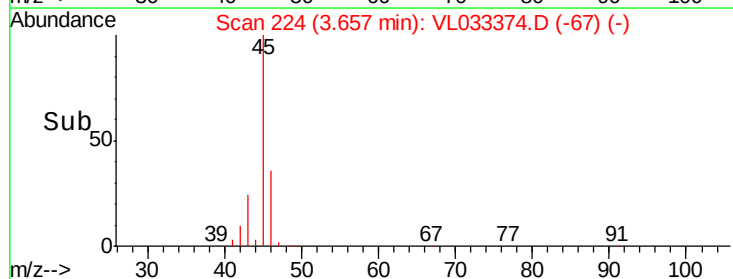
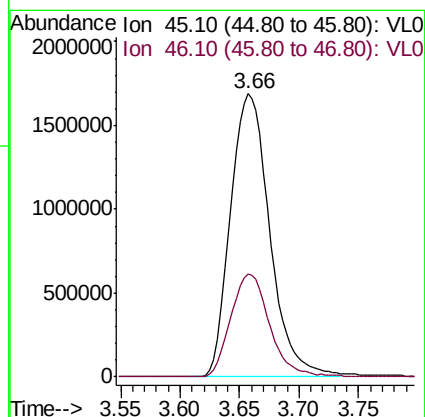
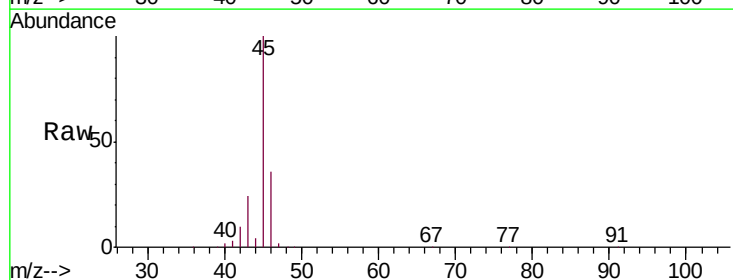
Acq: 19 Mar 2019 1:17

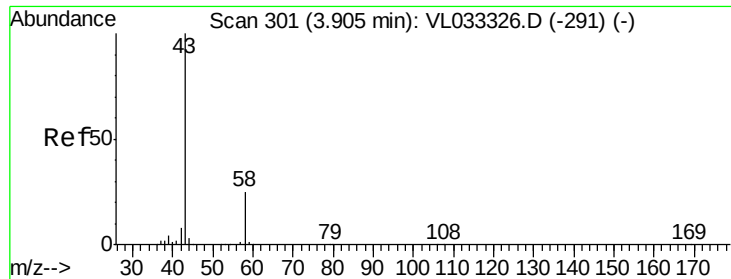
Tgt Ion: 45 Resp: 3863667

Ion Ratio Lower Upper

45 100

46 36.3 14.9 59.7





#15

Acetone

Concen: 1.360 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL033374.D

Acq: 19 Mar 2019 1:17

Instrument :

MSVOA_L

ClientSampleId :

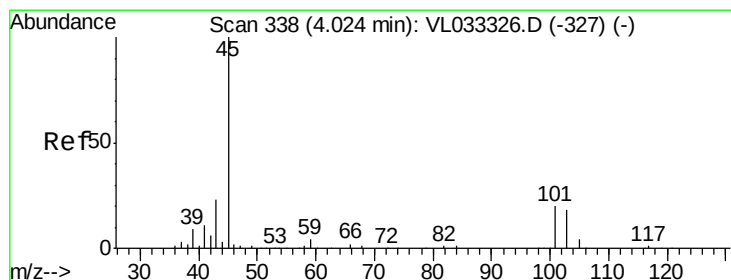
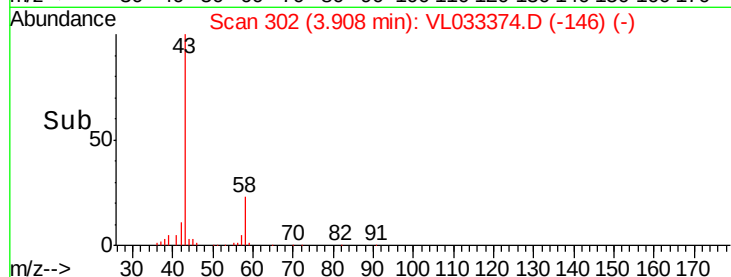
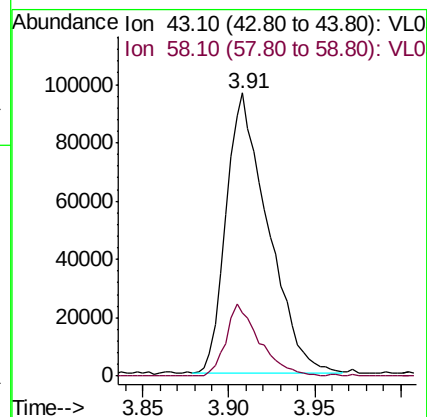
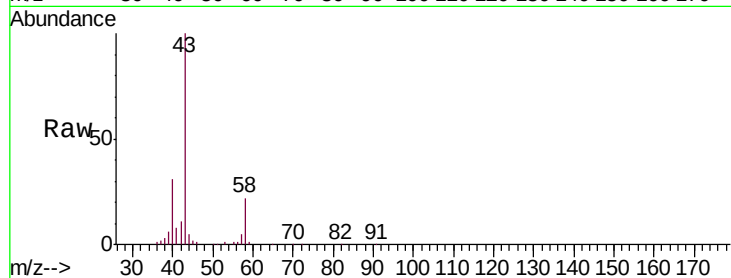
L1HA-IA2DL

Tgt Ion: 43 Resp: 163322

Ion Ratio Lower Upper

43 100

58 21.0 20.4 30.6



#19

Isopropyl Alcohol

Concen: 67.625 ppbv

RT: 3.66 min Scan# 224

Delta R.T. -0.37 min

Lab File: VL033374.D

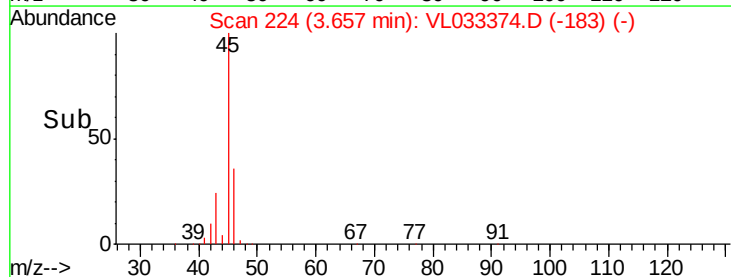
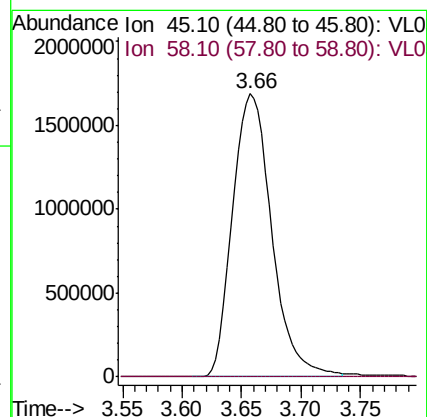
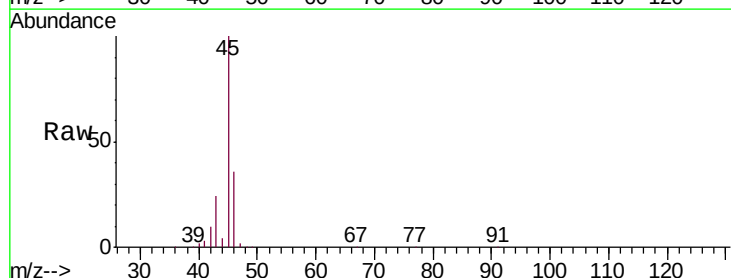
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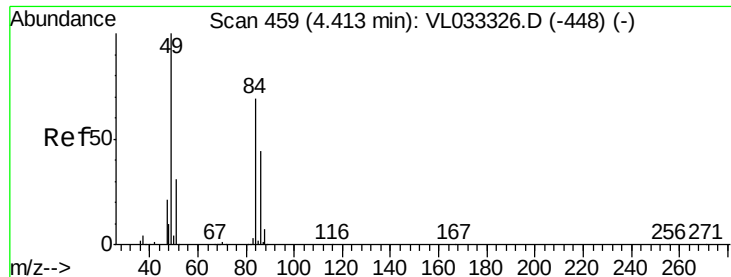
Tgt Ion: 45 Resp: 3863667

Ion Ratio Lower Upper

45 100

58 0.0 1.5 2.3#

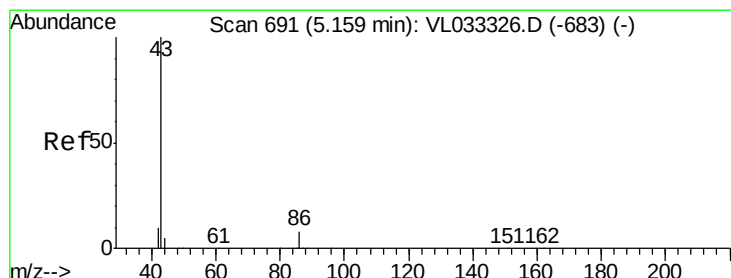
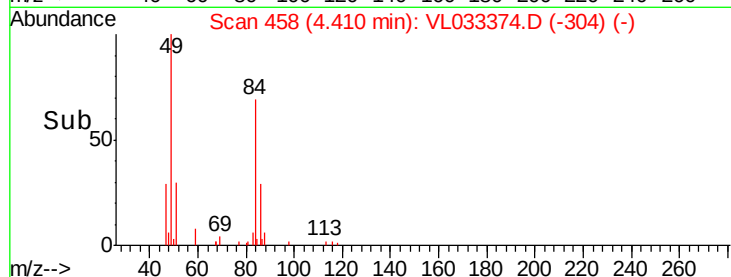
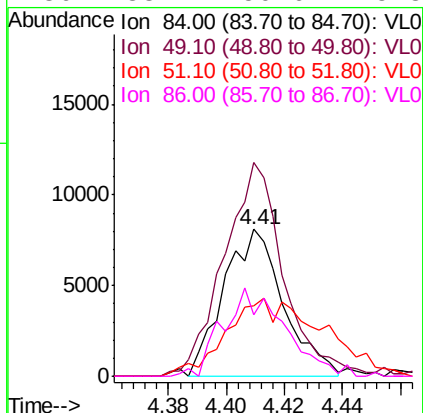
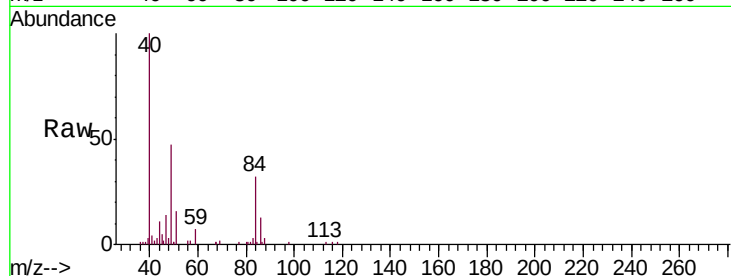




#20
Methylene Chloride
Concen: 0.296 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033374.D
Acq: 19 Mar 2019 1:17

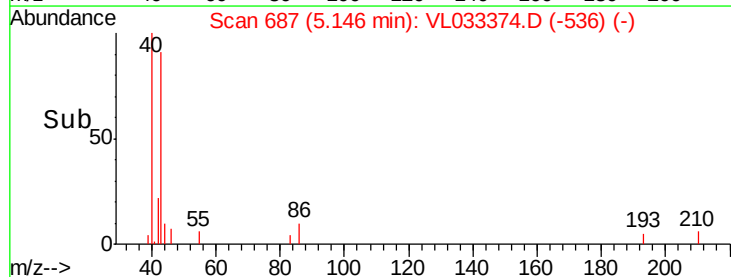
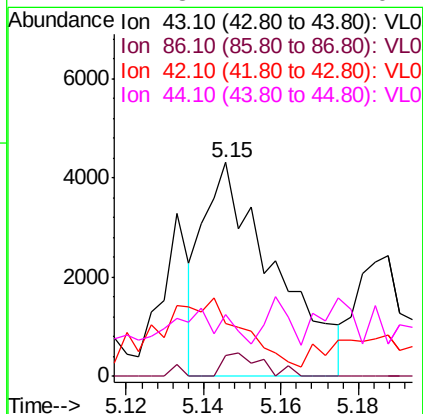
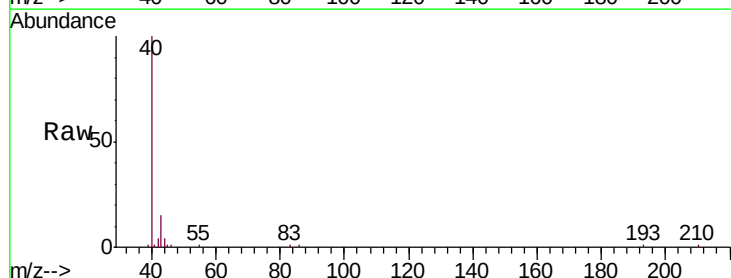
Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA2DL

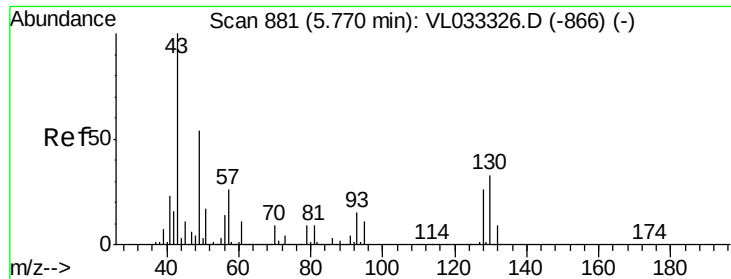
Tgt Ion: 84 Resp: 11585
Ion Ratio Lower Upper
84 100
49 133.8 115.4 173.0
51 37.7 35.8 53.6
86 38.1 50.6 75.8#



#23
Vinyl Acetate
Concen: 0.039 ppbv
RT: 5.15 min Scan# 687
Delta R.T. -0.01 min
Lab File: VL033374.D
Acq: 19 Mar 2019 1:17

Tgt Ion: 43 Resp: 5480
Ion Ratio Lower Upper
43 100
86 12.3 6.2 9.2#
42 10.2 8.1 12.1
44 4.8 4.1 6.1

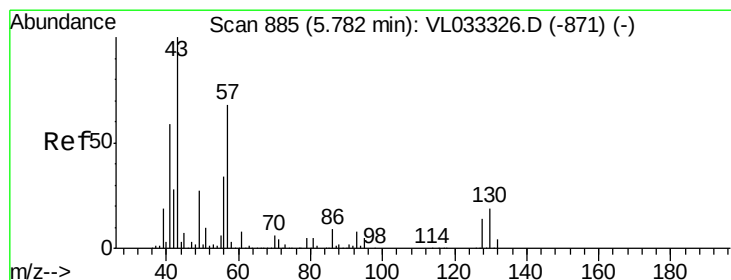
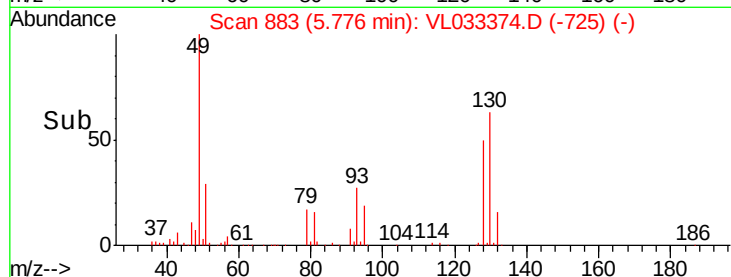
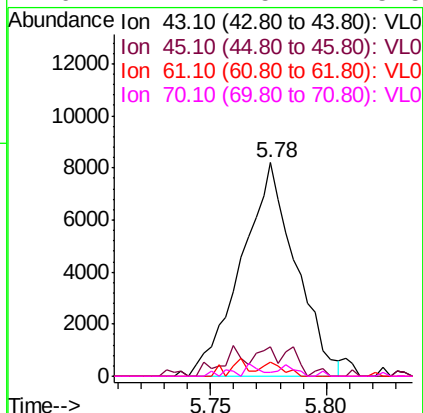
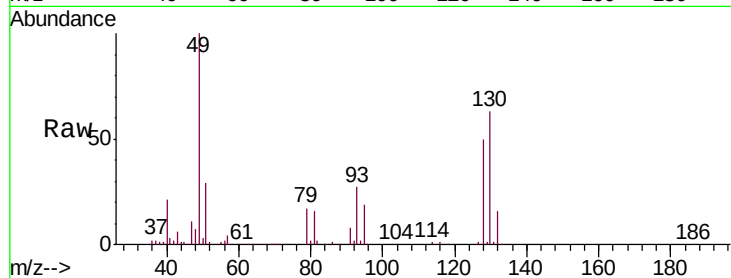




#25
Ethyl Acetate
Concen: 0.077 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033374.D
Acq: 19 Mar 2019 1:17

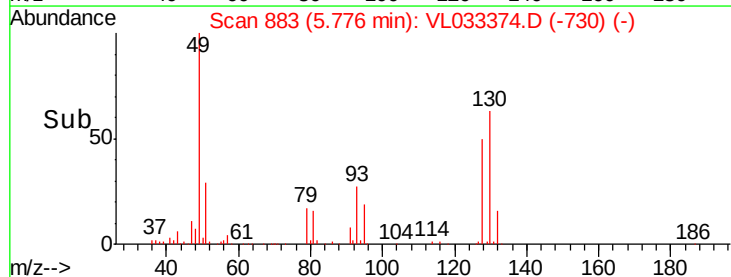
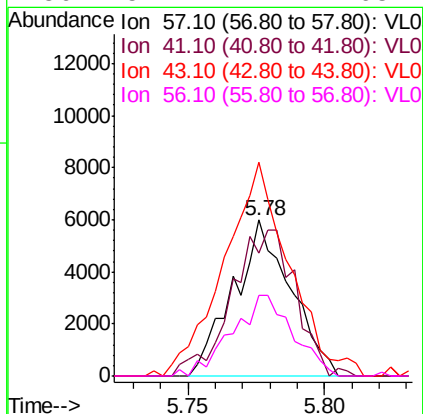
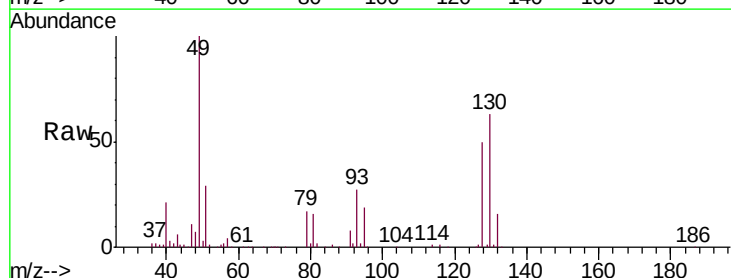
Instrument :
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L1HA-IA2DL

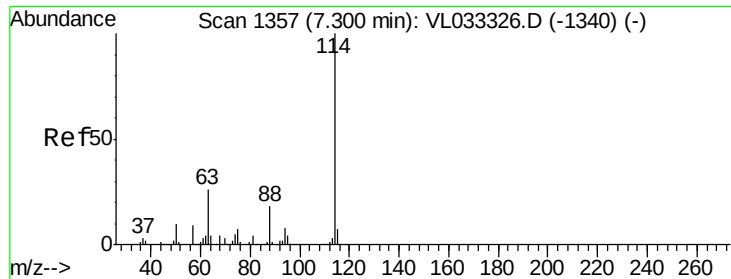
Tgt Ion:	43	Resp:	13368
Ion	Ratio	Lower	Upper
43	100		
45	15.9	7.9	11.9#
61	5.3	7.4	11.2#
70	4.2	5.7	8.5#



#26
Hexane
Concen: 0.112 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033374.D
Acq: 19 Mar 2019 1:17

Tgt Ion:	57	Resp:	8763
Ion	Ratio	Lower	Upper
57	100		
41	103.9	70.5	105.7
43	155.7	181.8	272.8#
56	54.7	42.2	63.2

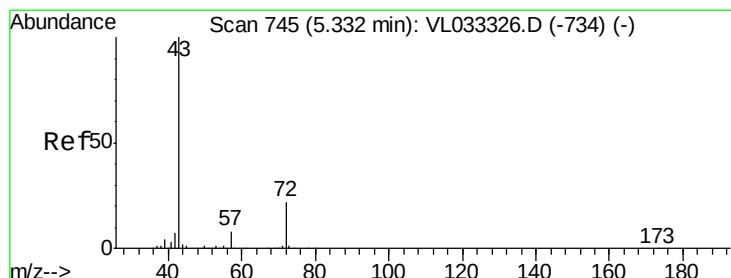
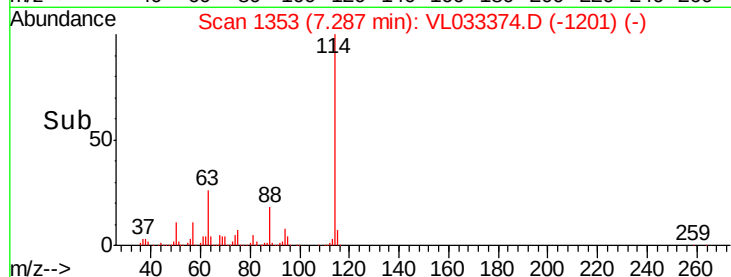
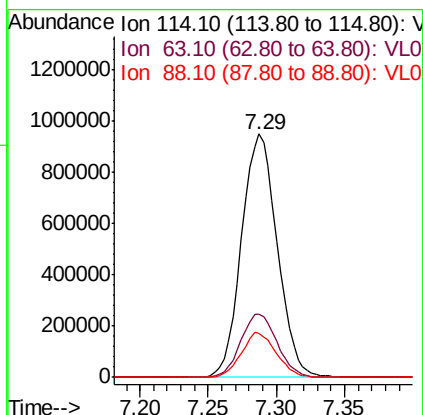
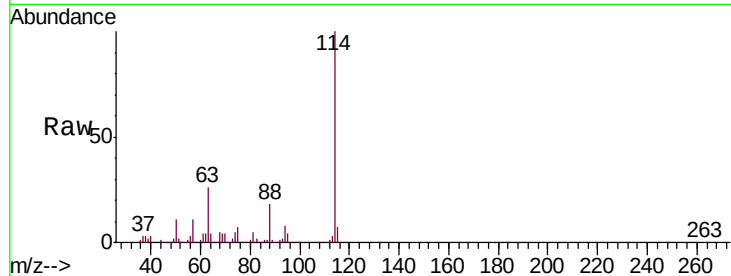




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033374.D
 Acq: 19 Mar 2019 1:17

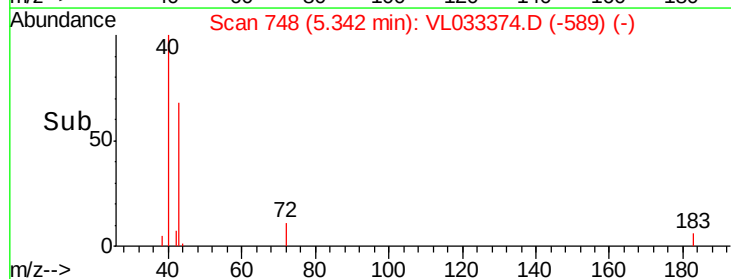
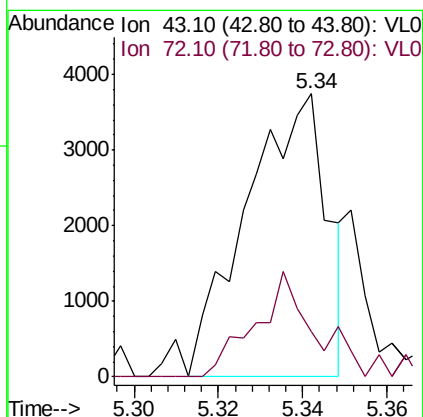
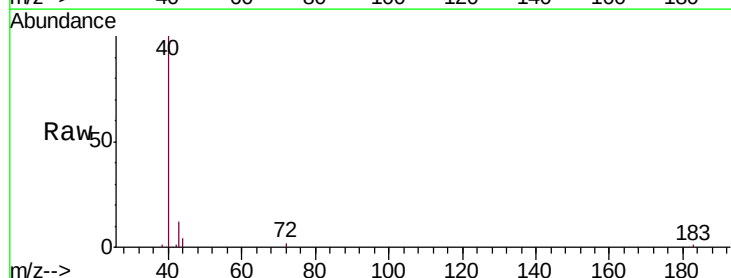
Instrument :
 MSVOA_L
 ClientSampleId :
 L1HA-IA2DL

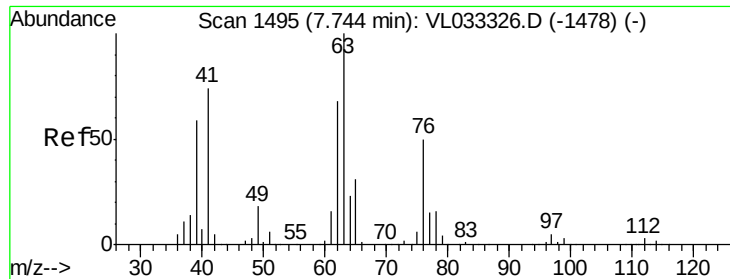
Tgt Ion:114 Resp: 1723087
 Ion Ratio Lower Upper
 114 100
 63 26.5 21.4 32.2
 88 18.1 14.5 21.7



#34
 2-Butanone
 Concen: 0.044 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.01 min
 Lab File: VL033374.D
 Acq: 19 Mar 2019 1:17

Tgt Ion: 43 Resp: 4988
 Ion Ratio Lower Upper
 43 100
 72 30.0 17.7 26.5#





#39

1,2-Dichloropropane

Concen: 7.865 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.46 min

Lab File: VL033374.D

Acq: 19 Mar 2019 1:17

Instrument :

MSVOA_L

ClientSampleId :

L1HA-IA2DL

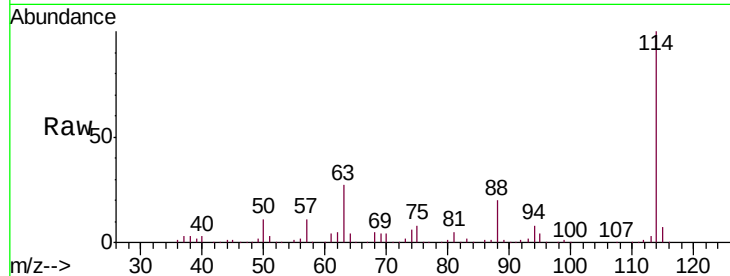
Tgt Ion: 63 Resp: 454223

Ion Ratio Lower Upper

63 100

41 0.0 59.5 89.3#

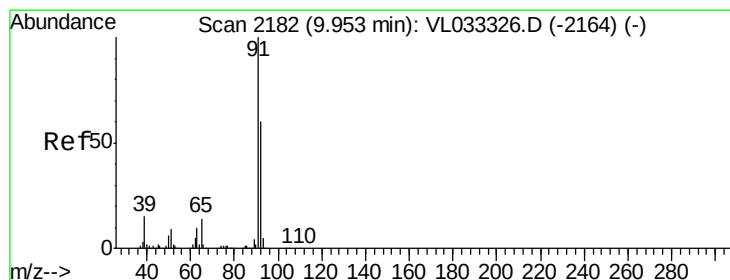
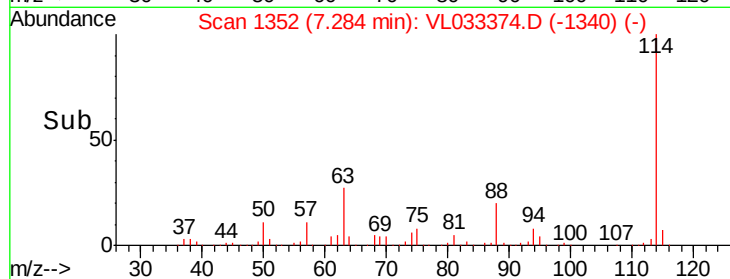
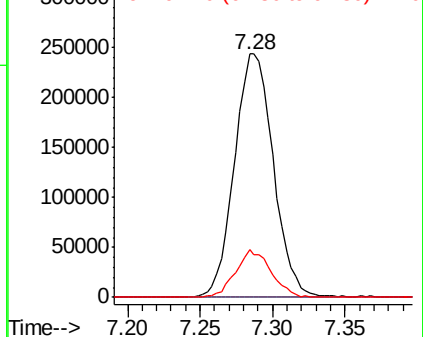
62 19.8 54.7 82.1#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#53

Toluene

Concen: 0.343 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033374.D

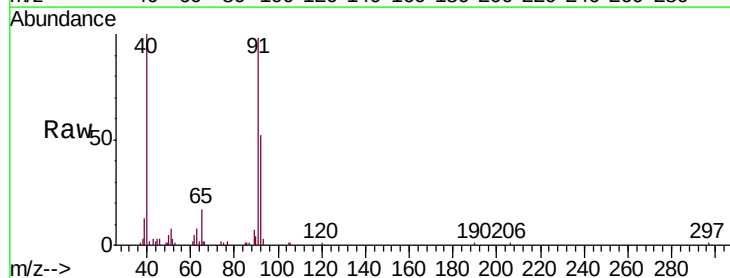
Acq: 19 Mar 2019 1:17

Tgt Ion: 91 Resp: 60152

Ion Ratio Lower Upper

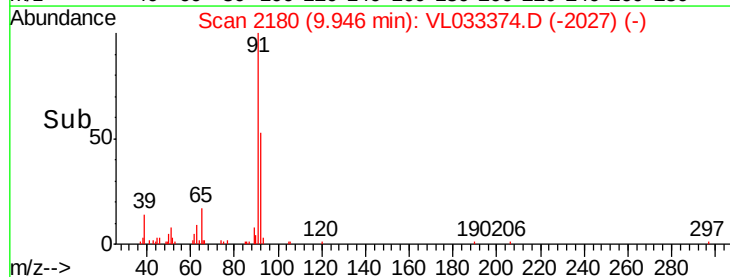
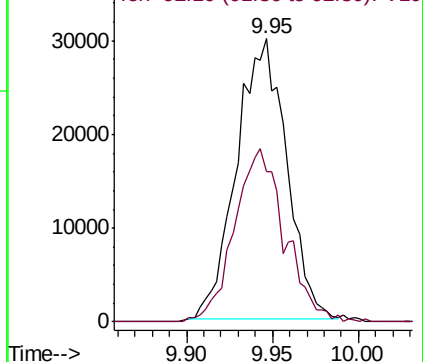
91 100

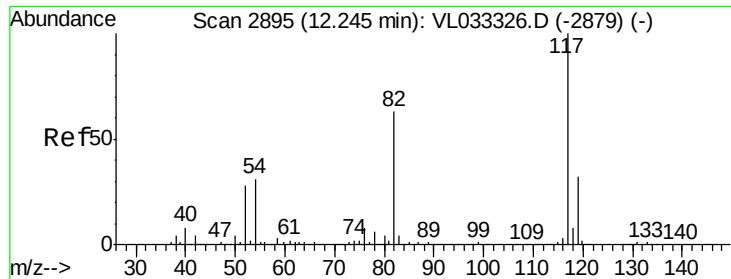
92 62.3 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

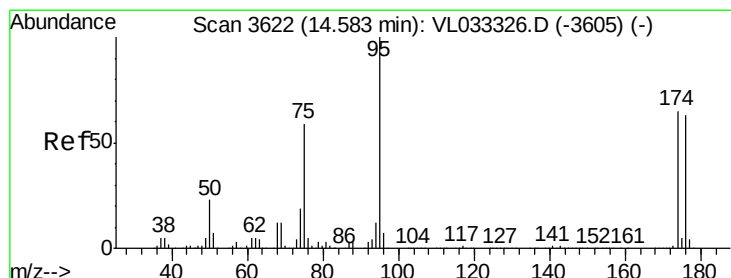
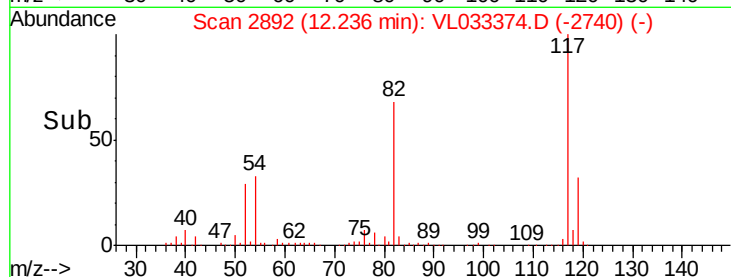
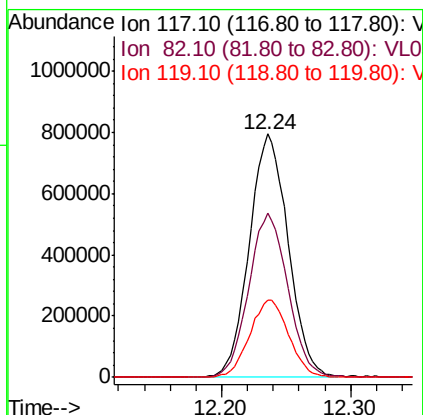
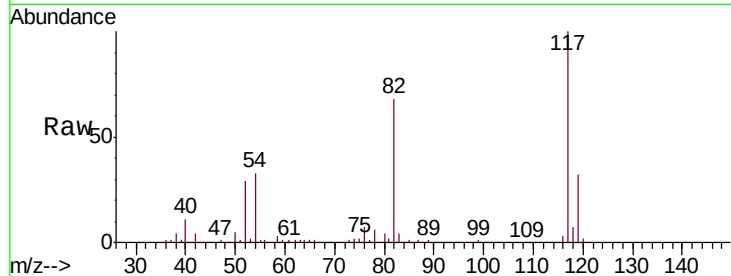




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033374.D
Acq: 19 Mar 2019 1:17

Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA2DL

Tgt Ion:117 Resp: 1670395
Ion Ratio Lower Upper
117 100
82 67.9 53.4 80.2
119 32.1 27.3 40.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.288 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033374.D
Acq: 19 Mar 2019 1:17

Tgt Ion: 95 Resp: 1273407
Ion Ratio Lower Upper
95 100
174 65.2 51.5 77.3
175 4.7 3.8 5.6

