

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111820\
 Data File : VL035981.D
 Acq On : 18 Nov 2020 20:04
 Operator : SY/AP
 Sample : L4781-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: Nov 19 08:12:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04 02:40:06 2020
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.63	49	1072468	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.13	114	3804496	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.04	117	3641146	10.00	ppbv	-0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.37	95	2666077	10.31	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

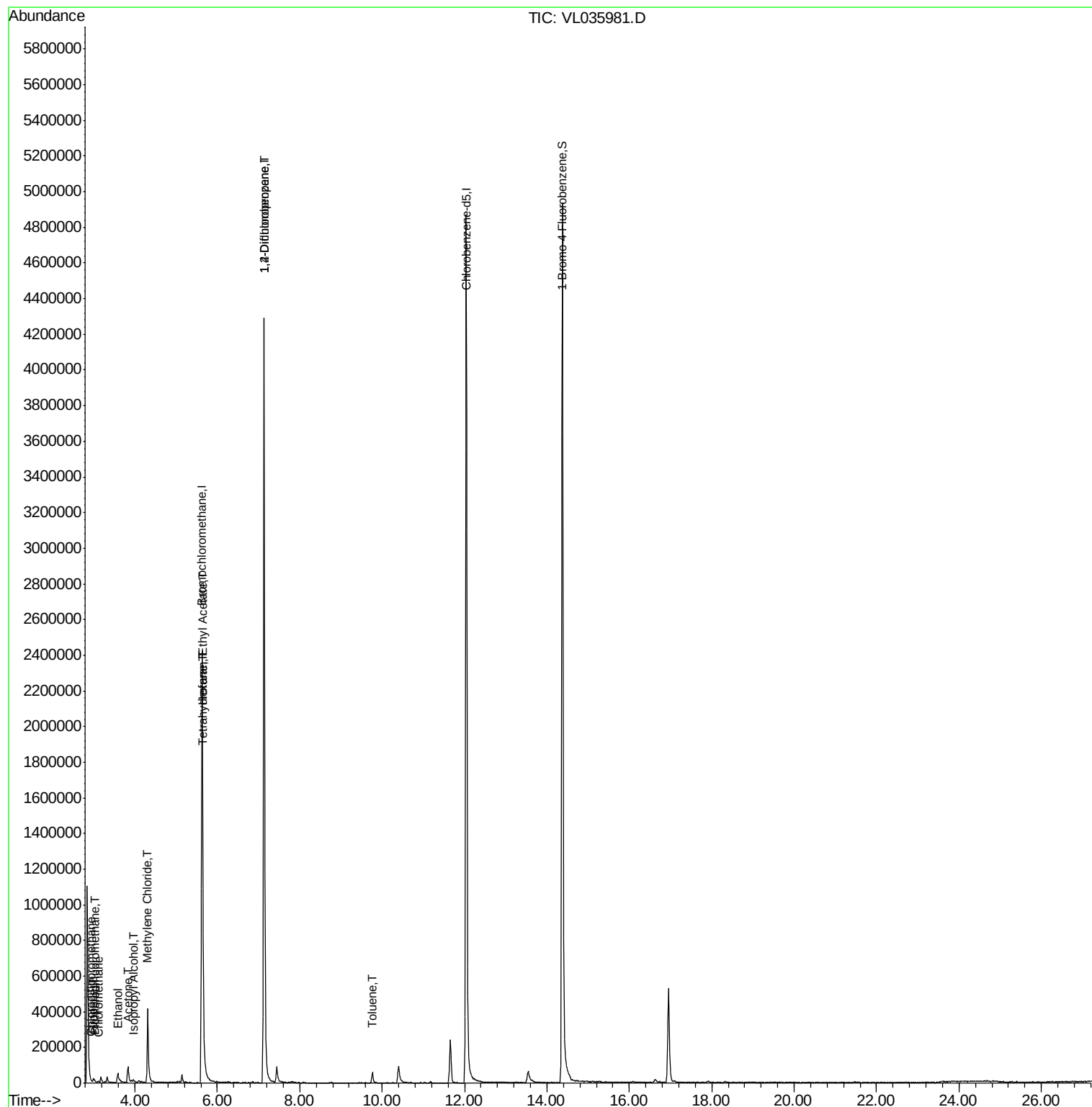
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	9599	0.048	ppbv	89
3) Chlorodifluoromethane	2.95	51	8610	0.067	ppbv #	84
4) Chloromethane	3.12	50	2406	0.039	ppbv #	69
9) Propene	2.99	41	7109	0.151	ppbv	96
13) Ethanol	3.58	45	32488	3.186	ppbv #	35
15) Acetone	3.83	43	109769	0.957	ppbv	90
19) Isopropyl Alcohol	3.95	45	5541	0.079	ppbv #	90
20) Methylene Chloride	4.31	84	233358	2.891	ppbv	95
25) Ethyl Acetate	5.65	43	62456	0.277	ppbv #	74
26) Hexane	5.65	57	103180	0.828	ppbv #	43
39) 1,2-Dichloropropane	7.13	63	784328	8.237	ppbv #	31
41) Tetrahydrofuran	5.65	42	22695	0.324	ppbv #	43
53) Toluene	9.76	91	53529	0.157	ppbv	93

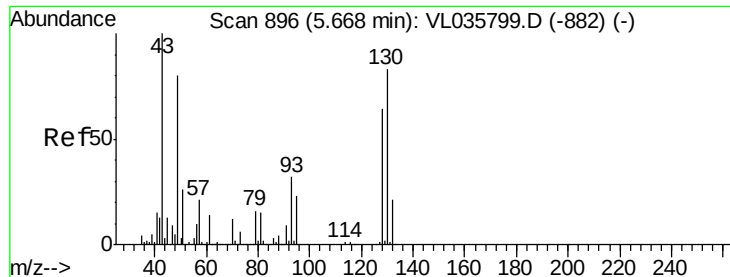
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 04 02:40:06 2020
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration

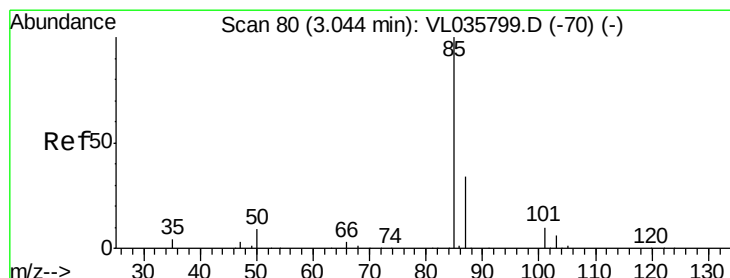
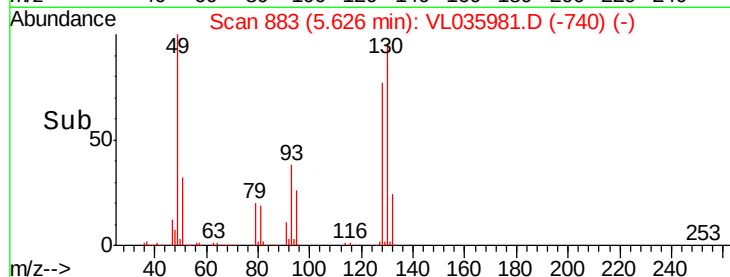
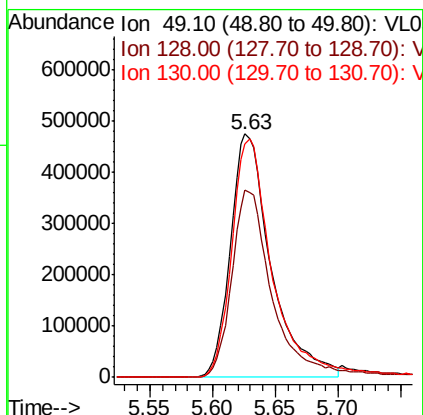
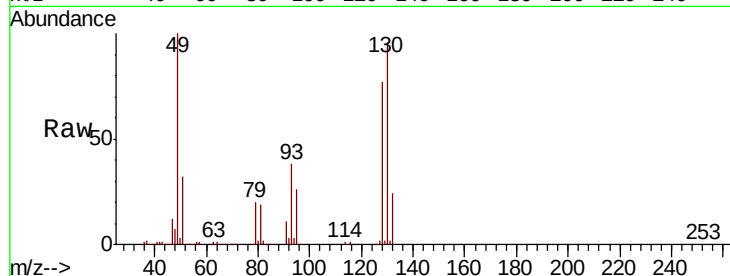




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.63 min Scan# 883
Delta R.T. -0.04 min
Lab File: VL035981.D
Acq: 18 Nov 2020 20:04

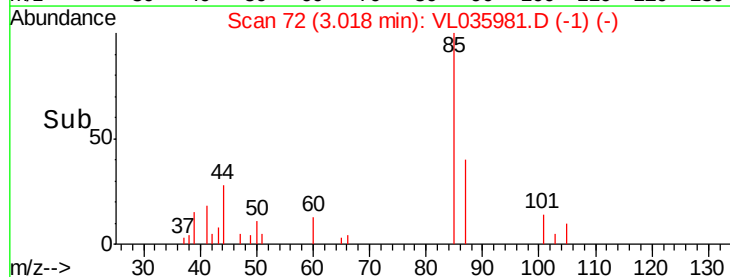
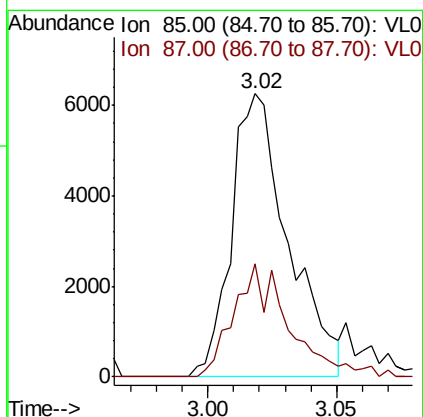
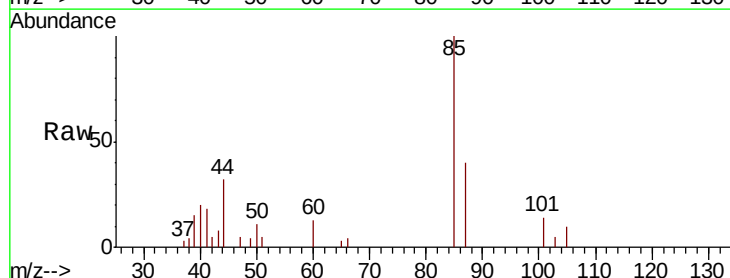
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

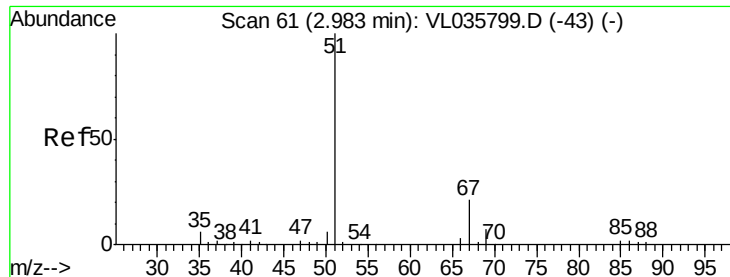
Tot Ion: 49 Resp: 1072468
Ion Ratio Lower Upper
49 100
128 79.3 41.5 124.6
130 101.2 53.7 161.1



#2
Dichlorodifluoromethane
Concen: 0.048 ppbv
RT: 3.02 min Scan# 72
Delta R.T. -0.03 min
Lab File: VL035981.D
Acq: 18 Nov 2020 20:04

Tgt Ion: 85 Resp: 9599
Ion Ratio Lower Upper
85 100
87 40.1 27.1 40.7





#3

Chlorodifluoromethane

Concen: 0.067 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.03 min

Lab File: VL035981.D

Acq: 18 Nov 2020 20:04

Instrument :

MSVOA_L

ClientSampleId :

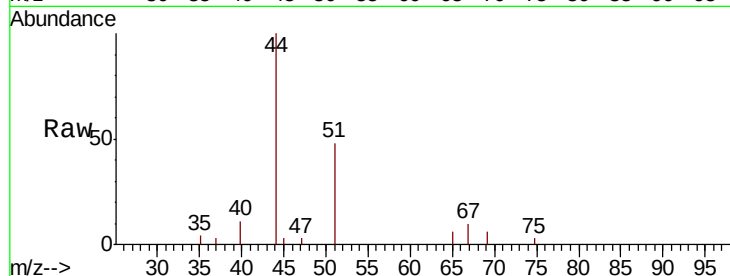
IA1DL

Tot Ion: 51 Resp: 8610

Ion Ratio Lower Upper

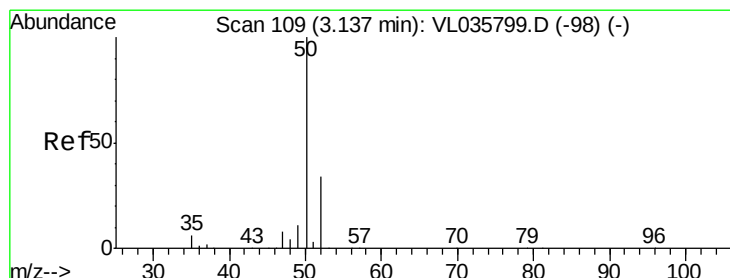
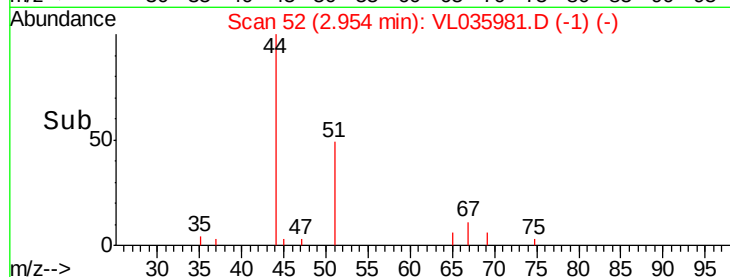
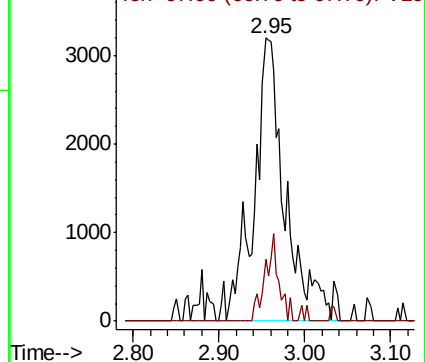
51 100

67 13.6 17.0 25.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.039 ppbv

RT: 3.12 min Scan# 103

Delta R.T. -0.02 min

Lab File: VL035981.D

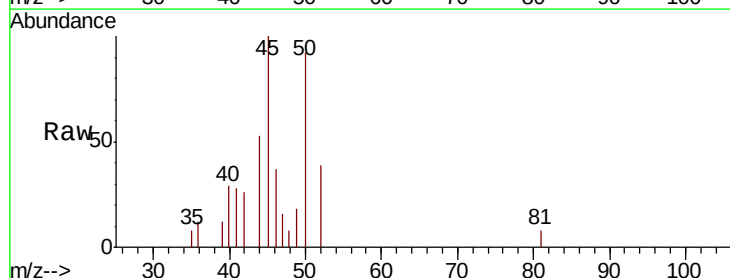
Acq: 18 Nov 2020 20:04

Tgt Ion: 50 Resp: 2406

Ion Ratio Lower Upper

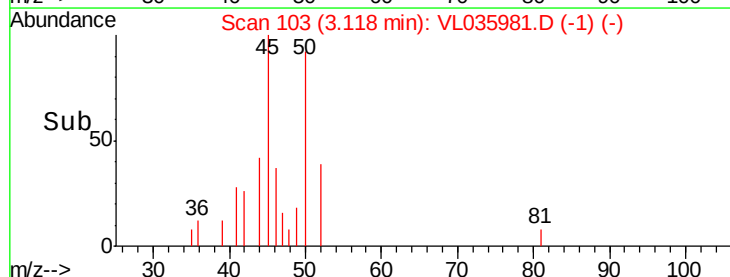
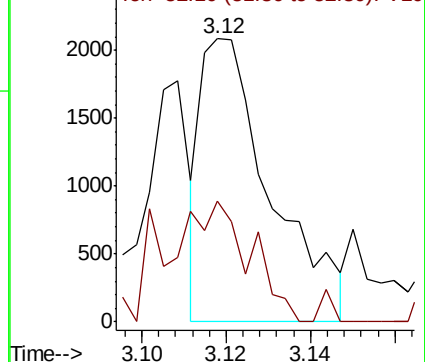
50 100

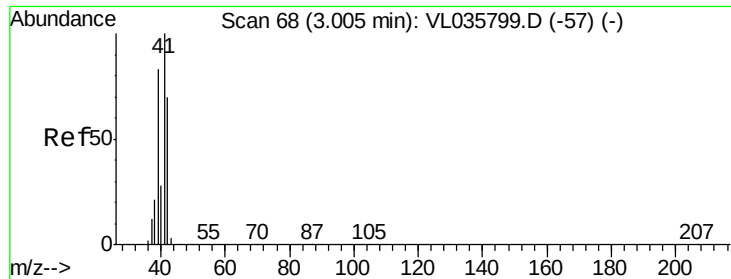
52 51.9 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.151 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.02 min

Lab File: VL035981.D

Acq: 18 Nov 2020 20:04

Instrument :

MSVOA_L

ClientSampleId :

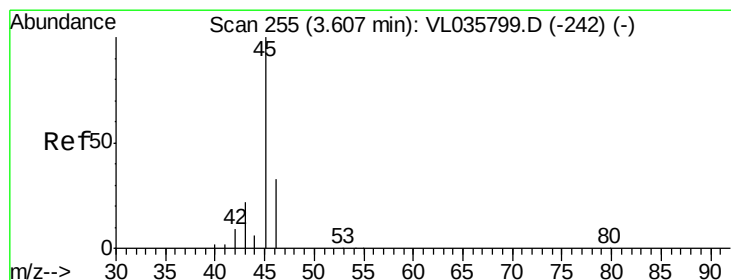
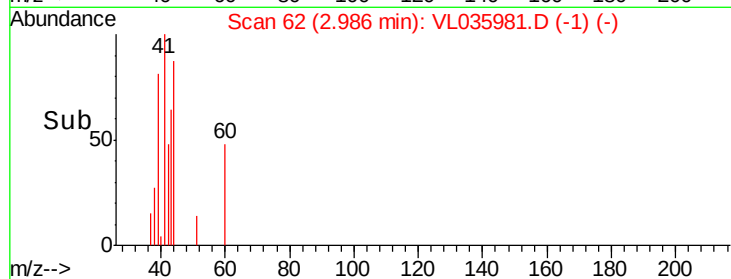
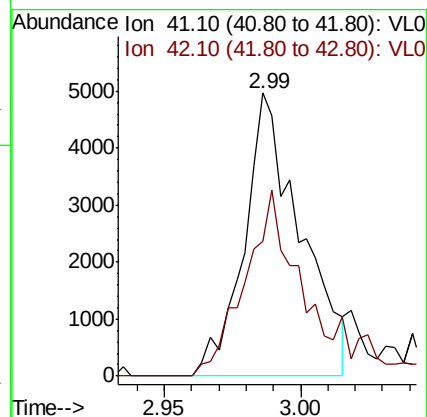
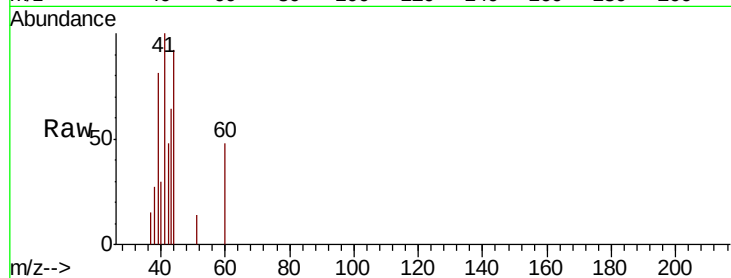
IA1DL

Tot Ion: 41 Resp: 7109

Ion Ratio Lower Upper

41 100

42 73.5 56.2 84.4



#13

Ethanol

Concen: 3.186 ppbv

RT: 3.58 min Scan# 246

Delta R.T. -0.03 min

Lab File: VL035981.D

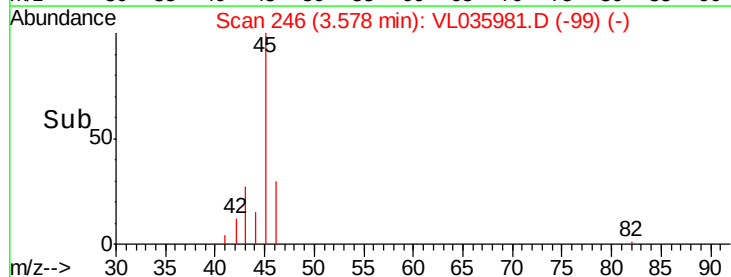
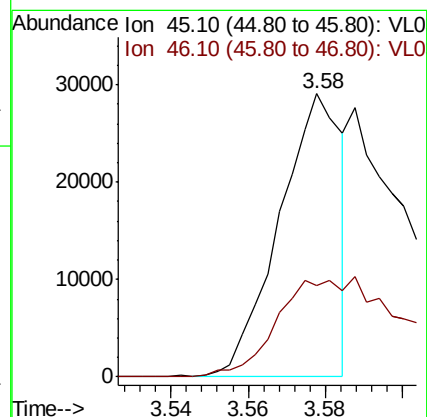
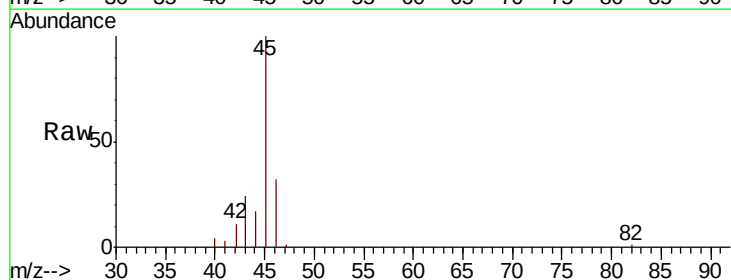
Acq: 18 Nov 2020 20:04

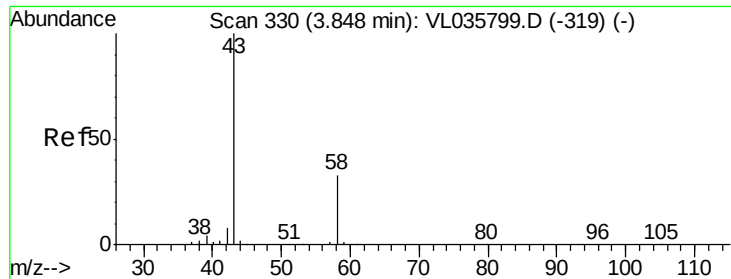
Tgt Ion: 45 Resp: 32488

Ion Ratio Lower Upper

45 100

46 0.0 16.1 64.5#





#15

Acetone

Concen: 0.957 ppbv

RT: 3.83 min Scan# 323

Delta R.T. -0.02 min

Lab File: VL035981.D

Acq: 18 Nov 2020 20:04

Instrument :

MSVOA_L

ClientSampleId :

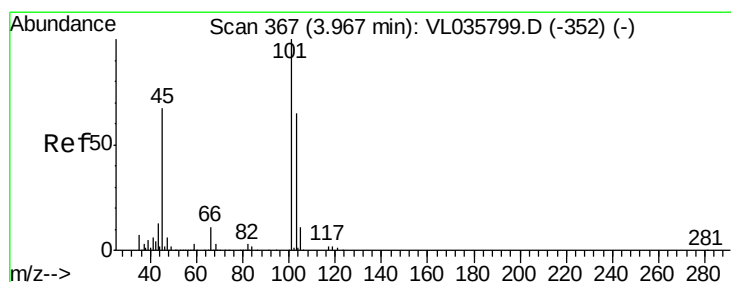
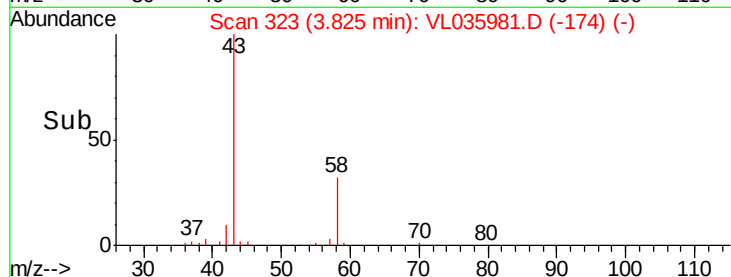
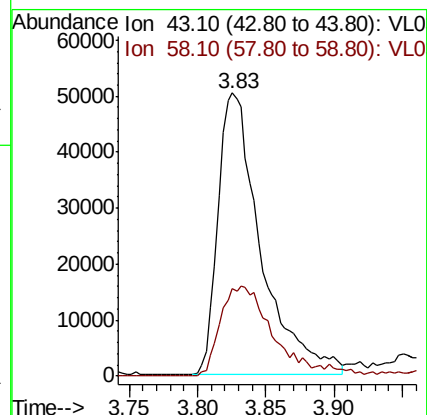
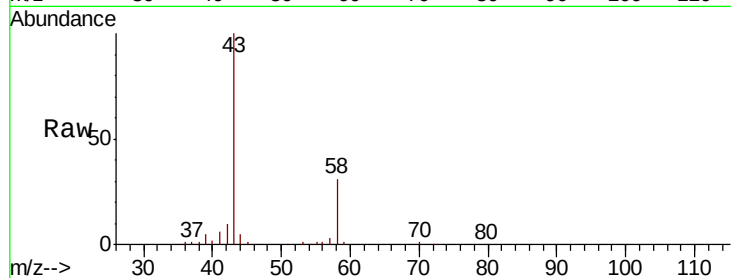
IA1DL

Tot Ion: 43 Resp: 109769

Ion Ratio Lower Upper

43 100

58 40.2 27.5 41.3



#19

Isopropyl Alcohol

Concen: 0.079 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.02 min

Lab File: VL035981.D

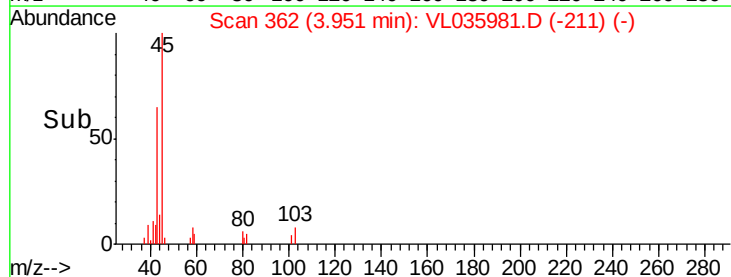
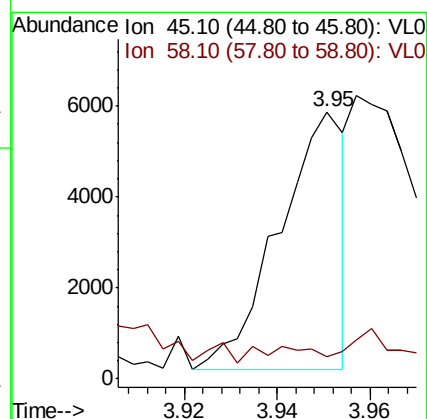
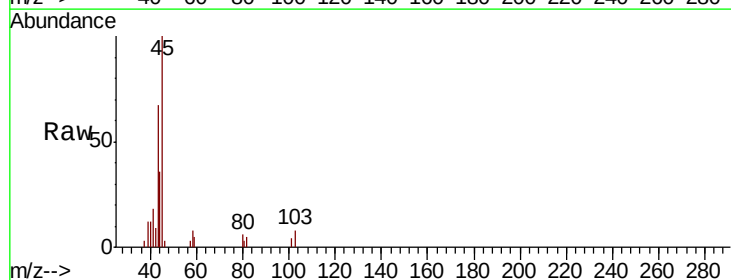
Acq: 18 Nov 2020 20:04

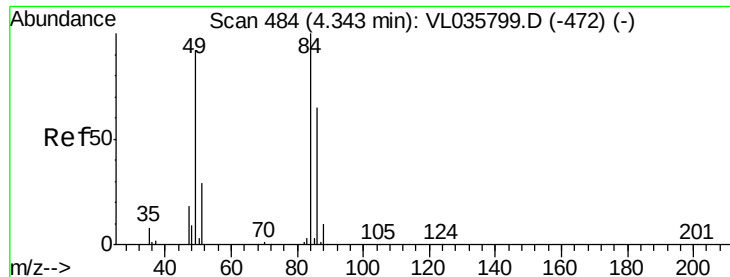
Tgt Ion: 45 Resp: 5541

Ion Ratio Lower Upper

45 100

58 0.0 2.6 3.8#

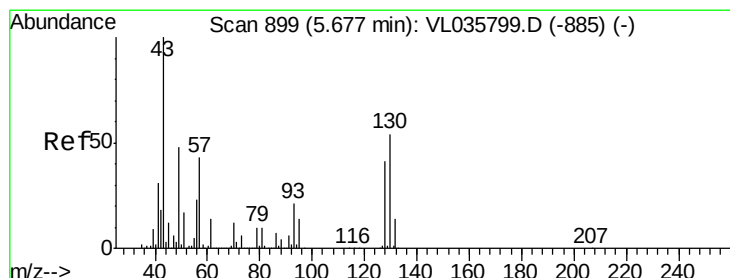
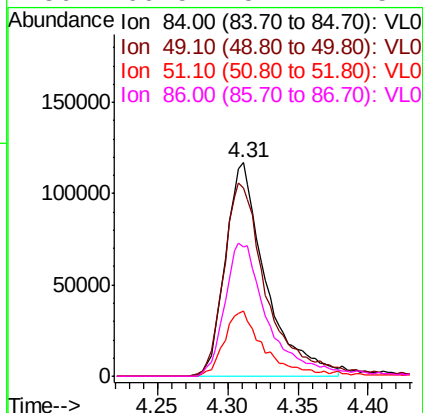
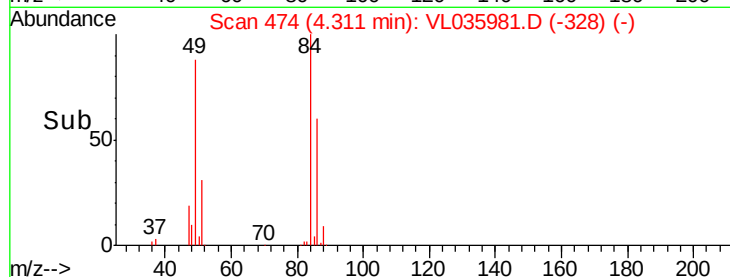
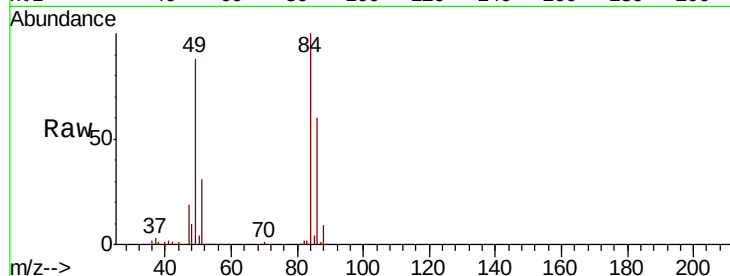




#20
Methylene Chloride
Concen: 2.891 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.03 min
Lab File: VL035981.D
Acq: 18 Nov 2020 20:04

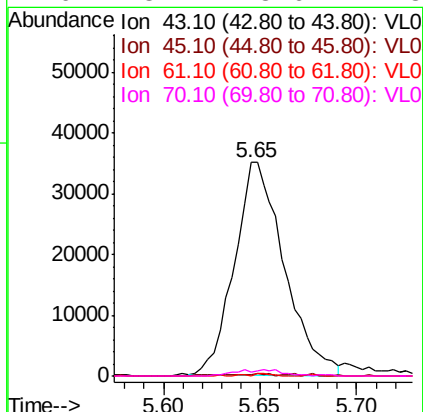
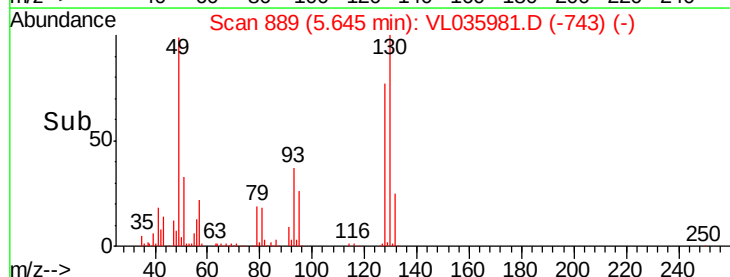
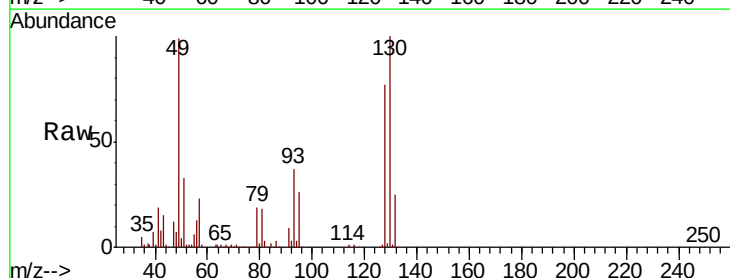
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

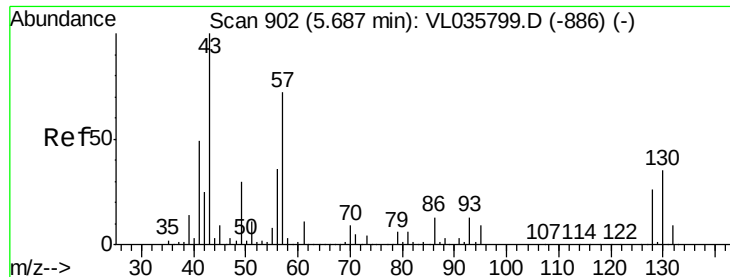
Tot Ion:	84	Resp:	233358
Ion	Ratio	Lower	Upper
84	100		
49	88.2	73.8	110.8
51	30.5	23.0	34.4
86	60.5	52.1	78.1



#25
Ethyl Acetate
Concen: 0.277 ppbv
RT: 5.65 min Scan# 889
Delta R.T. -0.03 min
Lab File: VL035981.D
Acq: 18 Nov 2020 20:04

Tgt Ion:	43	Resp:	62456
Ion	Ratio	Lower	Upper
43	100		
45	1.2	8.5	12.7#
61	0.6	10.7	16.1#
70	3.1	8.6	12.8#

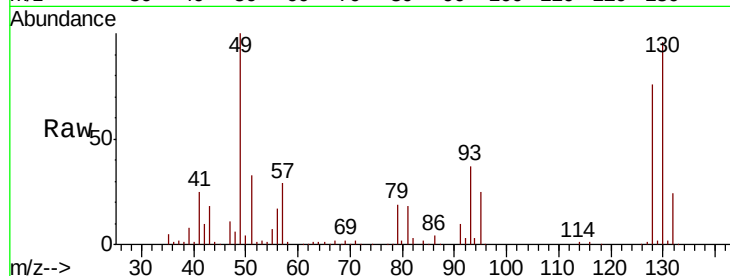




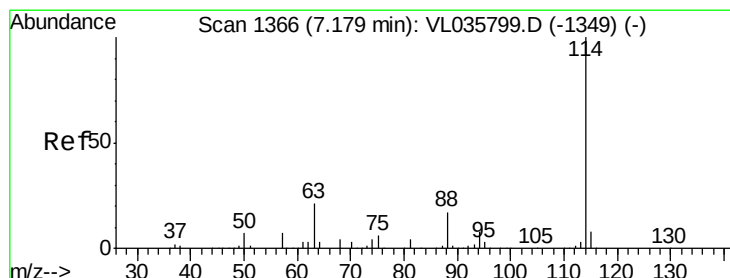
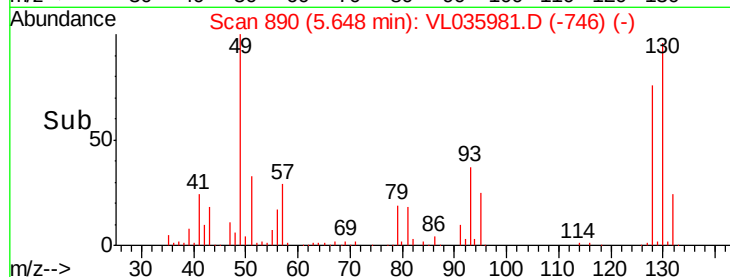
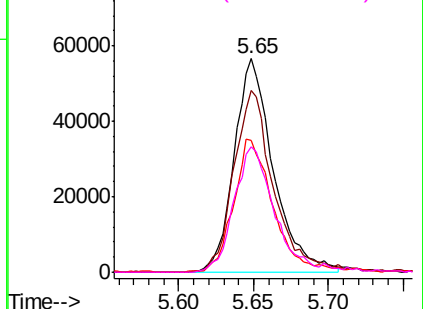
#26
Hexane
Concen: 0.828 ppbv
RT: 5.65 min Scan# 890
Delta R.T. -0.04 min
Lab File: VL035981.D
Acq: 18 Nov 2020 20:04

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tot Ion: 57 Resp: 103180
Ion Ratio Lower Upper
57 100
41 88.4 58.9 88.3#
43 64.8 150.2 225.2#
56 61.9 42.4 63.6

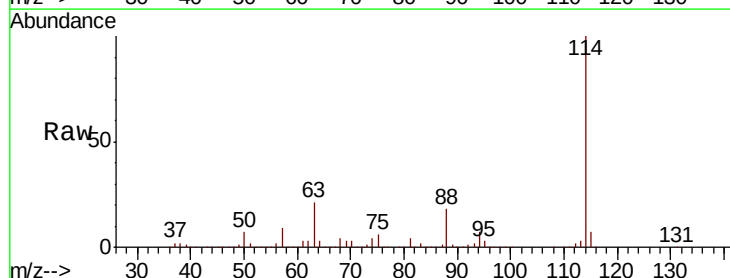


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

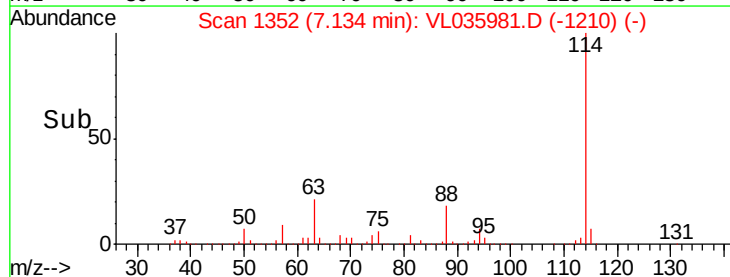
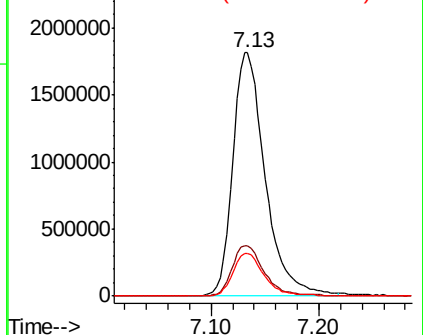


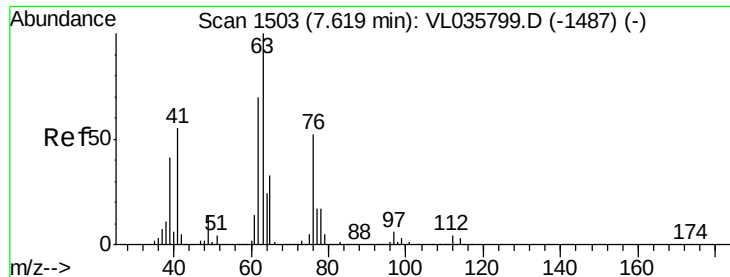
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. -0.04 min
Lab File: VL035981.D
Acq: 18 Nov 2020 20:04

Tgt Ion:114 Resp: 3804496
Ion Ratio Lower Upper
114 100
63 20.9 16.1 24.1
88 17.3 13.7 20.5



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: 8.237 ppbv

RT: 7.13 min Scan# 1351

Delta R.T. -0.49 min

Lab File: VL035981.D

Acq: 18 Nov 2020 20:04

Instrument :

MSVOA_L

ClientSampled :

IA1DL

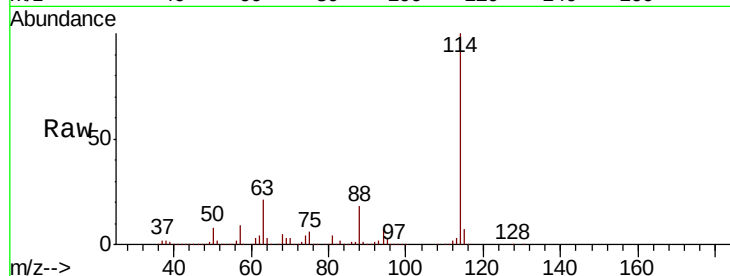
Tot Ion: 63 Resp: 784328

Ion Ratio Lower Upper

63 100

41 0.0 43.8 65.6#

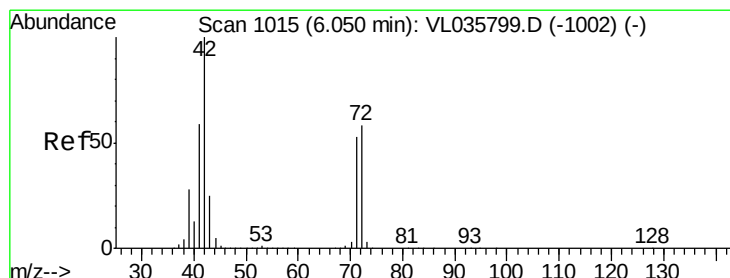
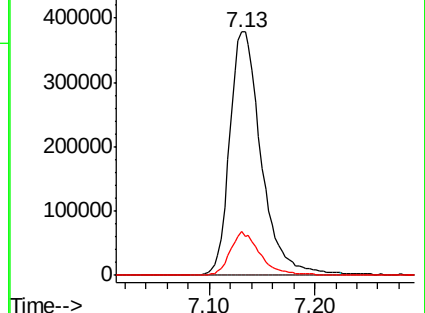
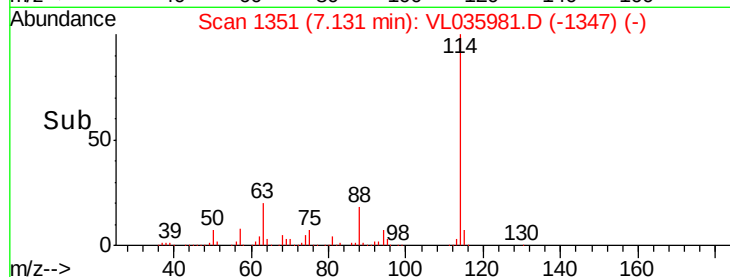
62 18.2 56.2 84.2#



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



#41

Tetrahydrofuran

Concen: 0.324 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.40 min

Lab File: VL035981.D

Acq: 18 Nov 2020 20:04

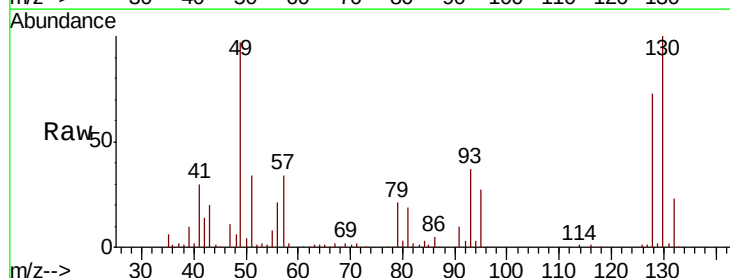
Tgt Ion: 42 Resp: 22695

Ion Ratio Lower Upper

42 100

72 0.9 45.4 68.0#

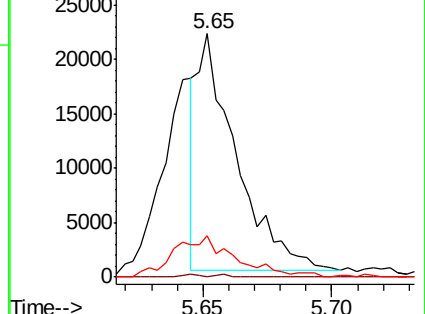
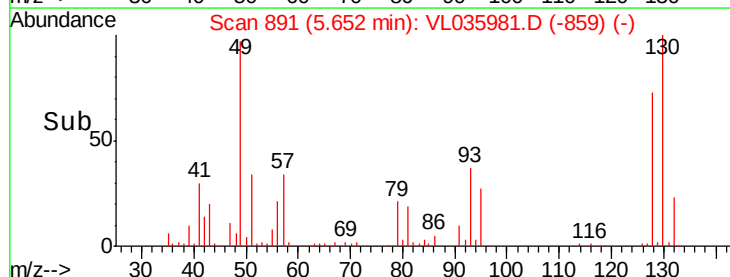
71 28.3 43.4 65.2#

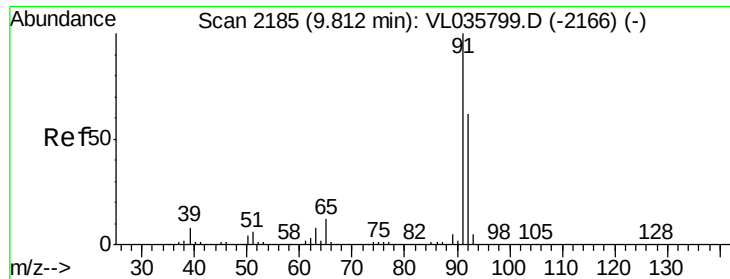


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#53

Toluene

Concen: 0.157 ppbv

RT: 9.76 min Scan# 2169

Delta R.T. -0.05 min

Lab File: VL035981.D

Acq: 18 Nov 2020 20:04

Instrument :

MSVOA_L

ClientSampleId :

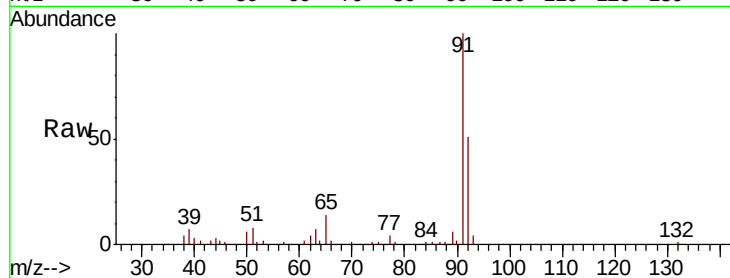
IA1DL

Tot Ion: 91 Resp: 53529

Ion Ratio Lower Upper

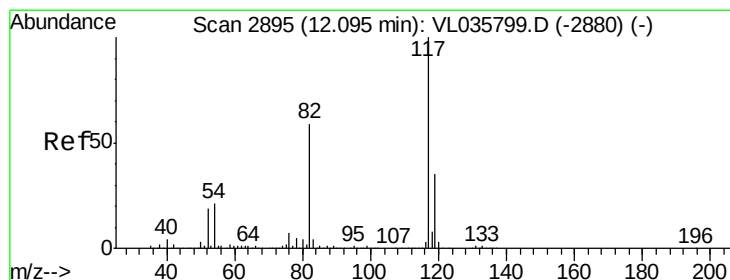
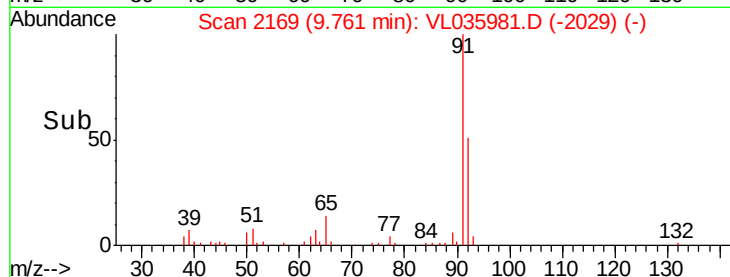
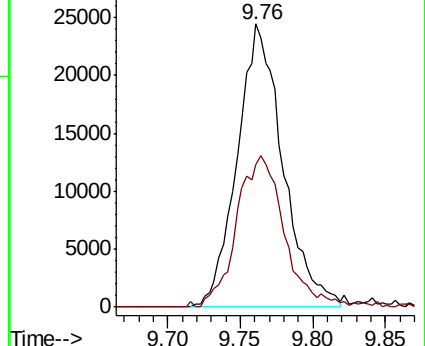
91 100

92 56.6 49.8 74.6



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: 12.04 min Scan# 2878

Delta R.T. -0.05 min

Lab File: VL035981.D

Acq: 18 Nov 2020 20:04

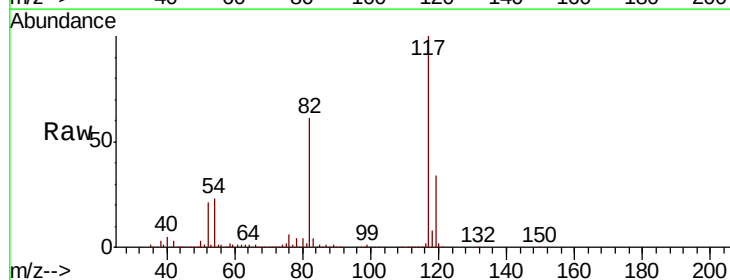
Tgt Ion: 117 Resp: 3641146

Ion Ratio Lower Upper

117 100

82 61.7 50.6 76.0

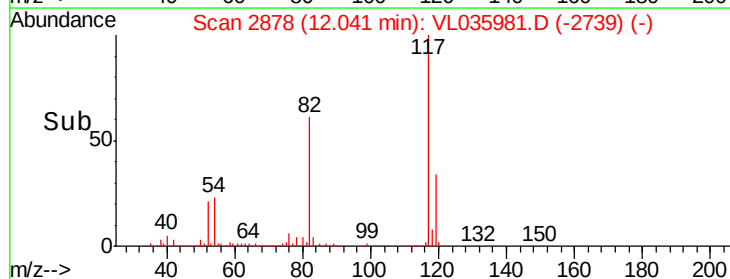
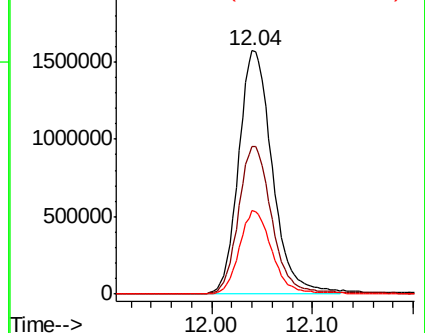
119 33.9 52.6 78.8#

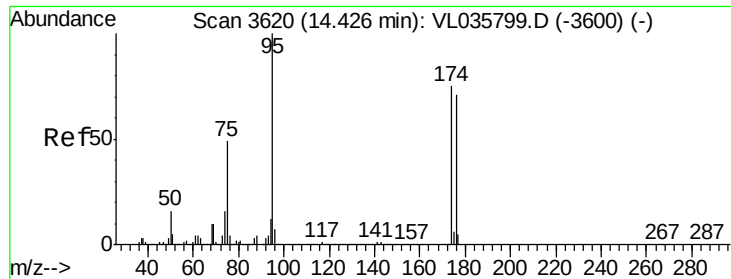


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.306 ppbv
 RT: 14.37 min Scan# 3604
 Delta R.T. -0.05 min
 Lab File: VL035981.D
 Acq: 18 Nov 2020 20:04

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Tot Ion: 95 Resp: 2666077

Ion	Ratio	Lower	Upper
95	100		
174	71.6	59.8	89.6
175	5.0	4.3	6.5

