

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101419\
 Data File : VL034281.D
 Acq On : 14 Oct 2019 14:39
 Operator : SY/AP
 Sample : K5353-01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Quant Time: Oct 15 02:48:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 18 12:53:31 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	983651	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.21	114	1654476	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1589103	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1420317	10.29	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

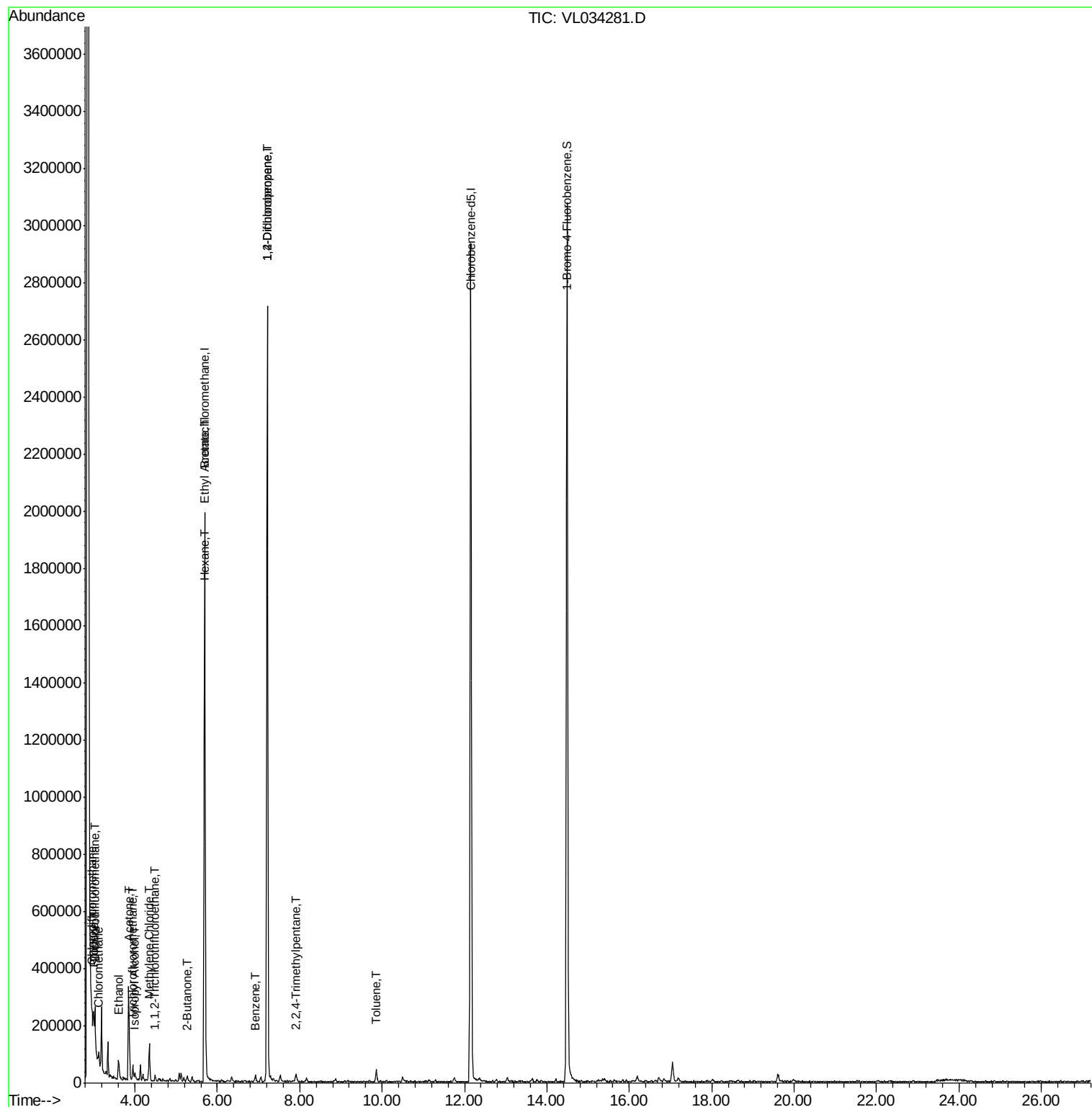
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	86599	0.596	ppbv	92
3) Chlorodifluoromethane	2.97	51	44491	0.386	ppbv #	89
4) Chloromethane	3.12	50	29426	0.434	ppbv	93
9) Propene	3.00	41	16716	0.294	ppbv	98
11) Trichlorofluoromethane	3.95	101	30937	0.234	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	2765	0.032	ppbv #	18
13) Ethanol	3.61	45	71095	5.160	ppbv	97
15) Acetone	3.85	43	324302	2.460	ppbv	96
19) Isopropyl Alcohol	3.97	45	3732	0.046	ppbv #	95
20) Methylene Chloride	4.35	84	37440	0.985	ppbv #	89
25) Ethyl Acetate	5.70	43	65424	0.262	ppbv #	92
26) Hexane	5.71	57	28795	0.278	ppbv #	64
34) 2-Butanone	5.26	43	10895	0.064	ppbv #	58
36) Benzene	6.92	78	7972	0.044	ppbv	93
39) 1,2-Dichloropropane	7.21	63	548633	6.682	ppbv #	20
44) 2,2,4-Trimethylpentane	7.91	57	13355	0.038	ppbv #	51
53) Toluene	9.85	91	10923	0.055	ppbv #	20

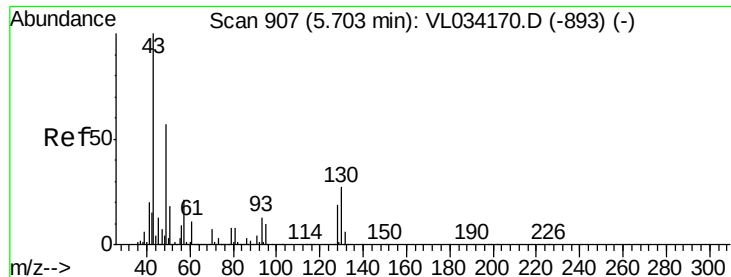
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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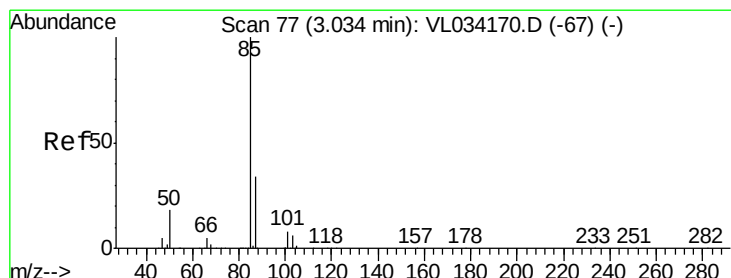
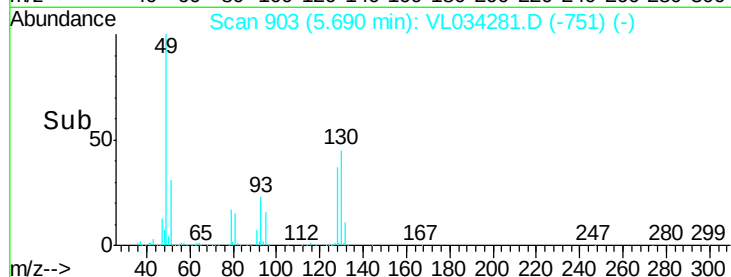
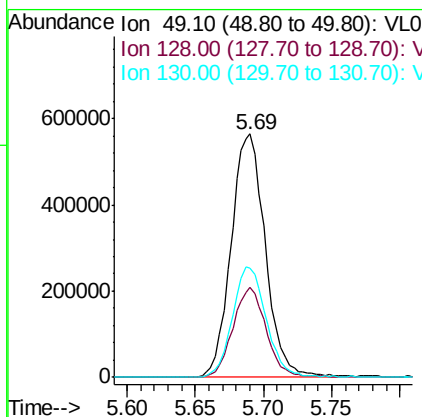
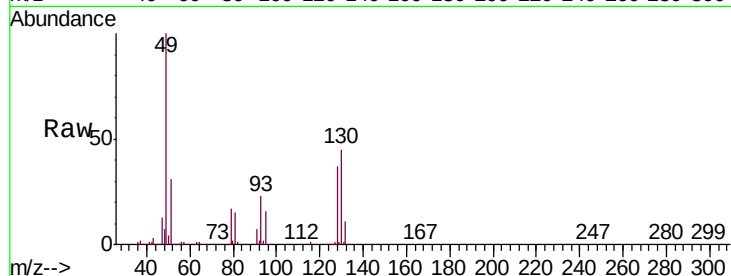




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.69 min Scan# 903
 Delta R.T. -0.01 min
 Lab File: VL034281.D
 Acq: 14 Oct 2019 14:39

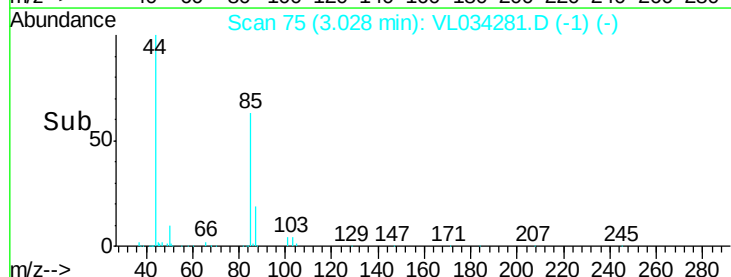
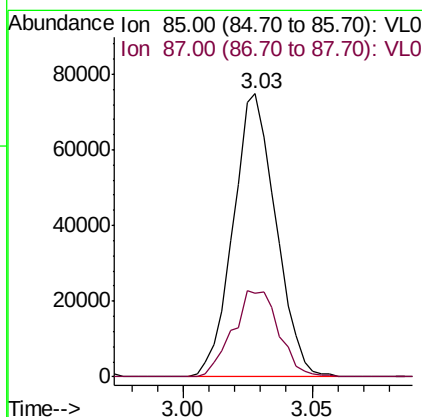
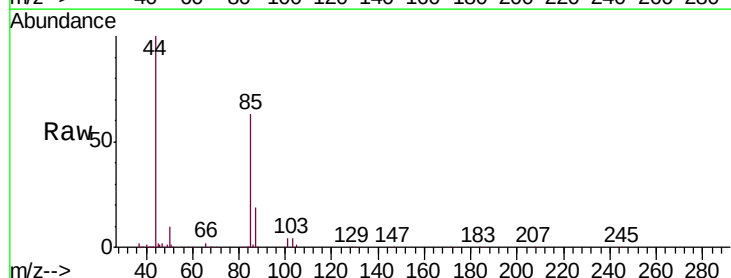
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

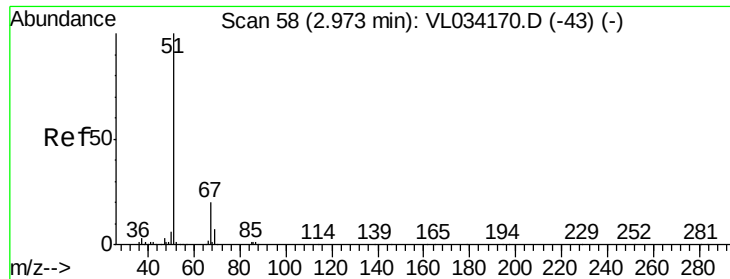
Tgt Ion: 49 Resp: 983651
 Ion Ratio Lower Upper
 49 100
 128 36.3 17.6 52.9
 130 45.2 22.3 66.9



#2
 Dichlorodifluoromethane
 Concen: 0.596 ppbv
 RT: 3.03 min Scan# 75
 Delta R.T. -0.01 min
 Lab File: VL034281.D
 Acq: 14 Oct 2019 14:39

Tgt Ion: 85 Resp: 86599
 Ion Ratio Lower Upper
 85 100
 87 29.4 27.2 40.8





#3

Chlorodifluoromethane

Concen: 0.386 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL034281.D

Acq: 14 Oct 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

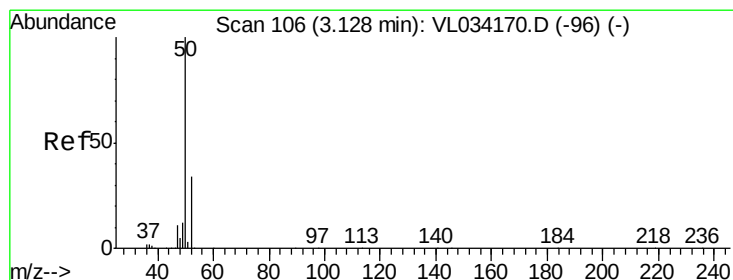
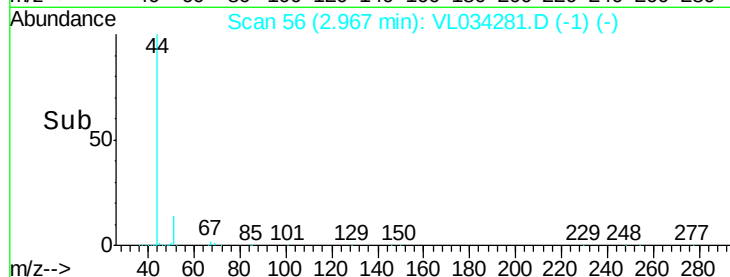
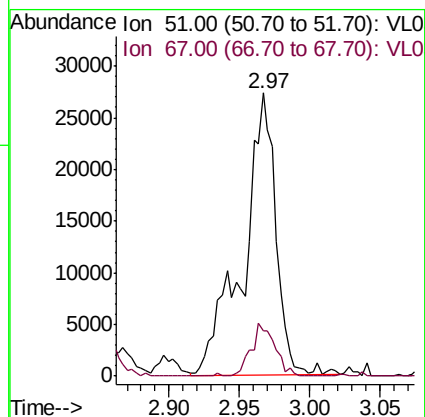
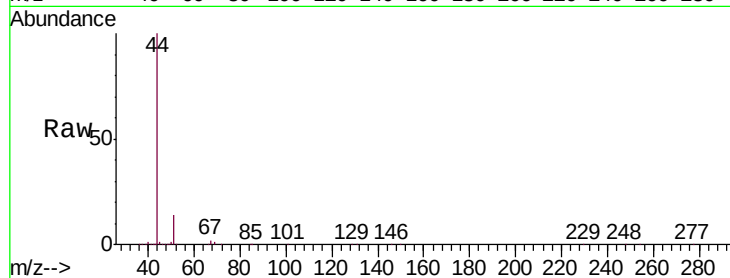
AA-1

Tgt Ion: 51 Resp: 44491

Ion Ratio Lower Upper

51 100

67 13.6 14.8 22.2#



#4

Chloromethane

Concen: 0.434 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL034281.D

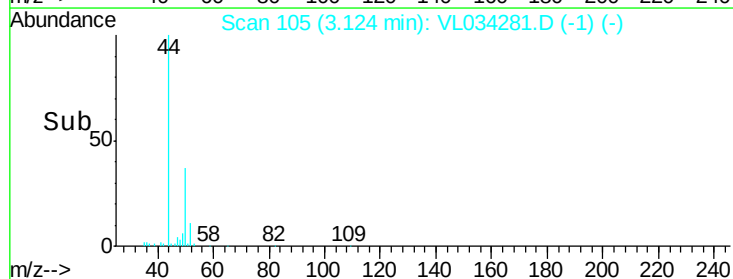
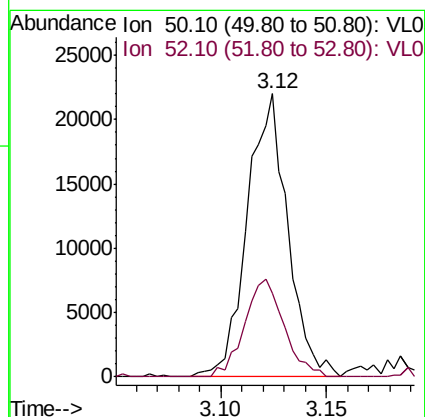
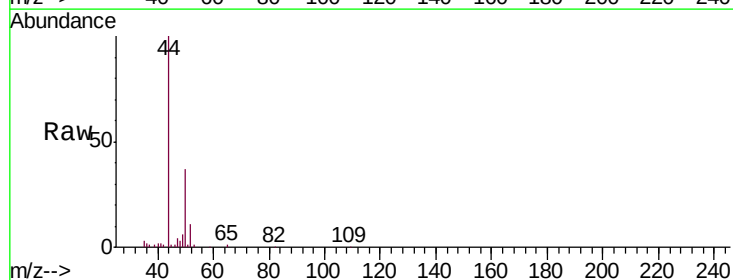
Acq: 14 Oct 2019 14:39

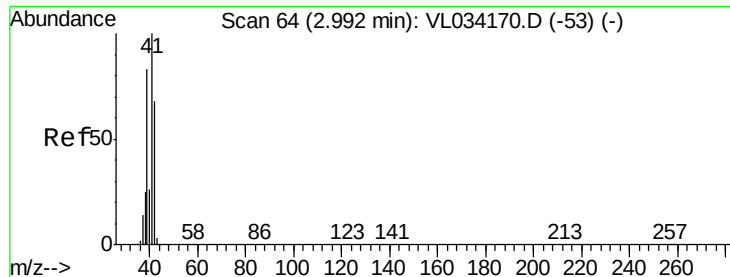
Tgt Ion: 50 Resp: 29426

Ion Ratio Lower Upper

50 100

52 29.7 27.1 40.7





#9

Propene

Concen: 0.294 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.00 min

Lab File: VL034281.D

Acq: 14 Oct 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

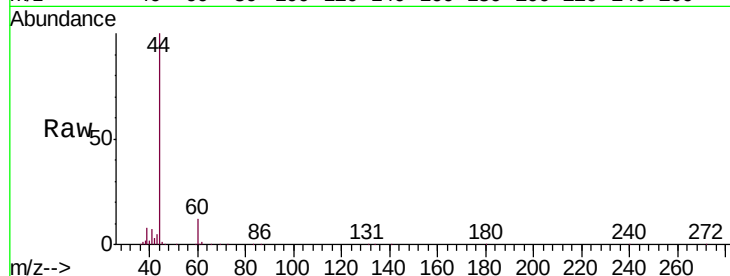
AA-1

Tgt Ion: 41 Resp: 16716

Ion Ratio Lower Upper

41 100

42 68.1 55.8 83.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

12000

10000

8000

6000

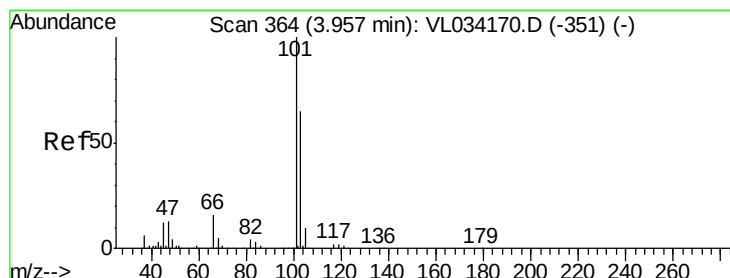
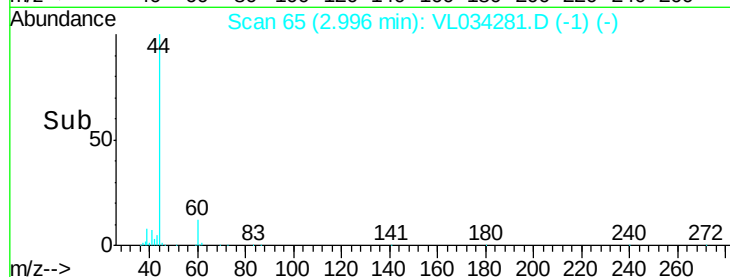
4000

2000

0

Time-->

2.95 3.00 3.05



#11

Trichlorofluoromethane

Concen: 0.234 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL034281.D

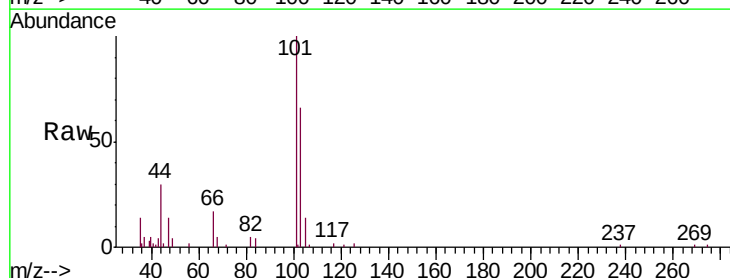
Acq: 14 Oct 2019 14:39

Tgt Ion: 101 Resp: 30937

Ion Ratio Lower Upper

101 100

103 65.7 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

25000

20000

15000

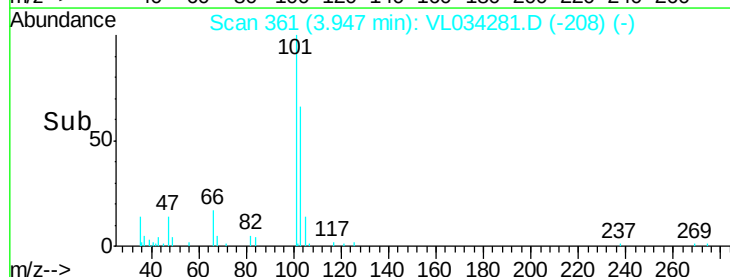
10000

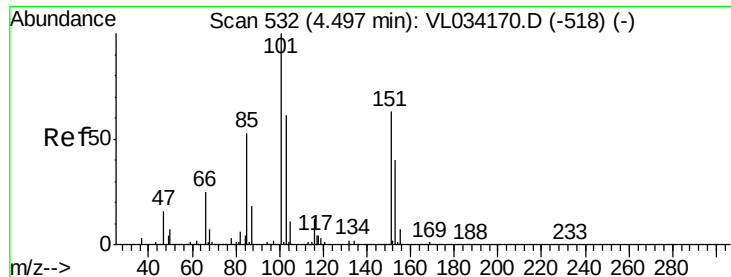
5000

0

Time-->

3.90 3.95 4.00





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.032 ppbv

RT: 4.48 min Scan# 528

Delta R.T. -0.01 min

Lab File: VL034281.D

Acq: 14 Oct 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

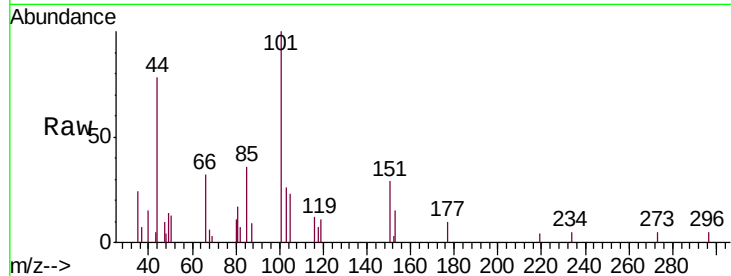
AA-1

Tgt Ion: 101 Resp: 2765

Ion Ratio Lower Upper

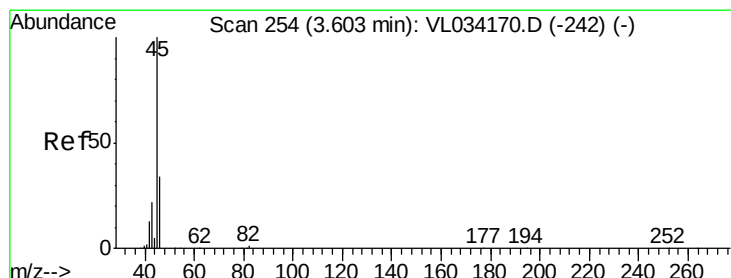
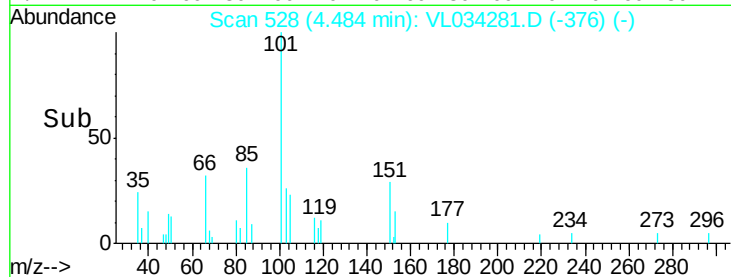
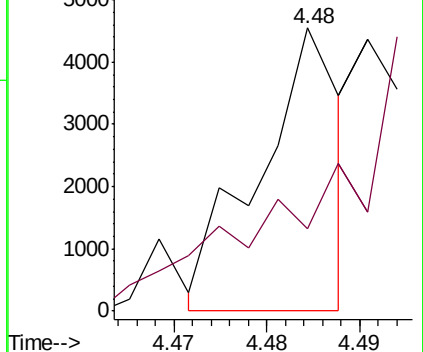
101 100

151 0.0 51.8 77.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 5.160 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.00 min

Lab File: VL034281.D

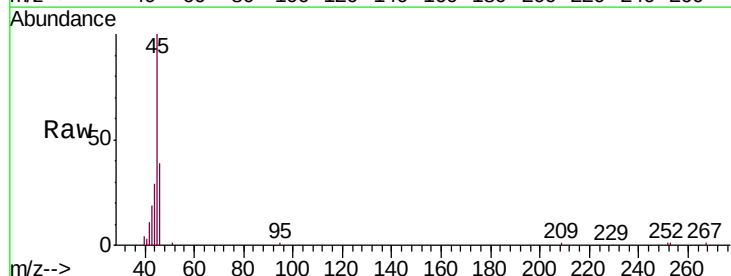
Acq: 14 Oct 2019 14:39

Tgt Ion: 45 Resp: 71095

Ion Ratio Lower Upper

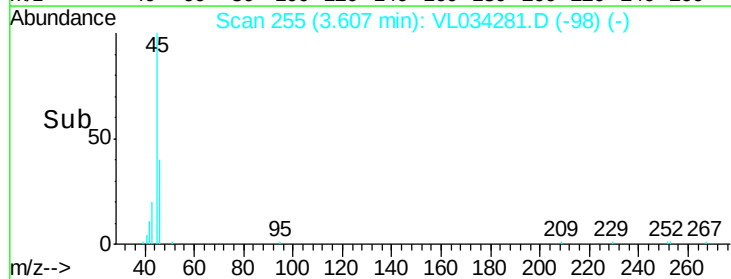
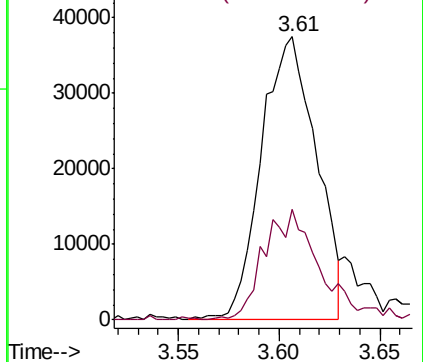
45 100

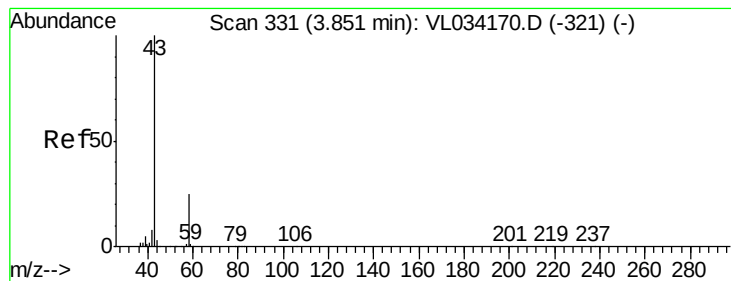
46 40.7 15.5 61.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 2.460 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL034281.D

Acq: 14 Oct 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

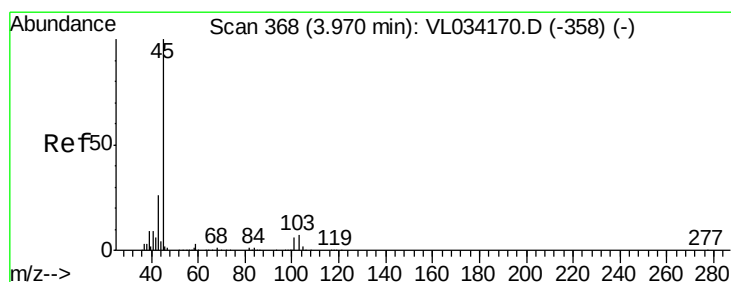
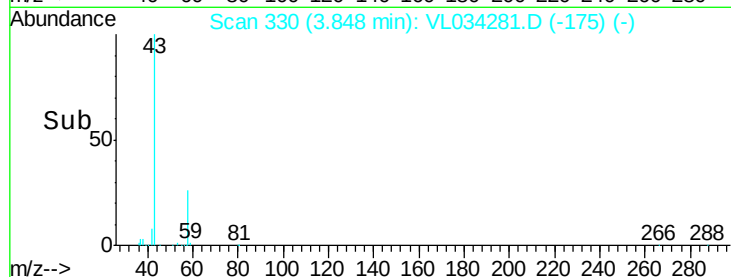
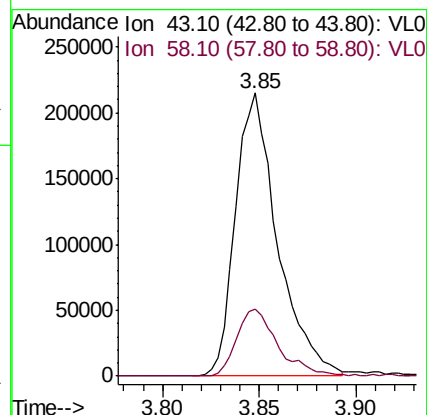
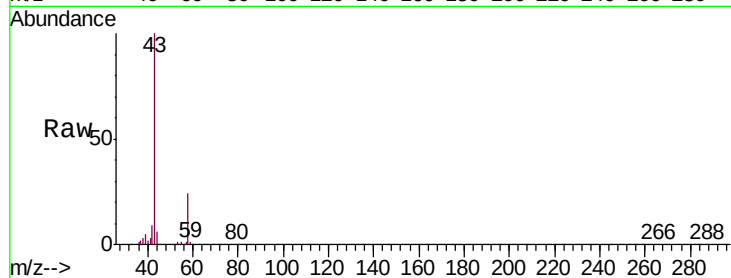
AA-1

Tgt Ion: 43 Resp: 324302

Ion Ratio Lower Upper

43 100

58 23.7 20.5 30.7



#19

Isopropyl Alcohol

Concen: 0.046 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.00 min

Lab File: VL034281.D

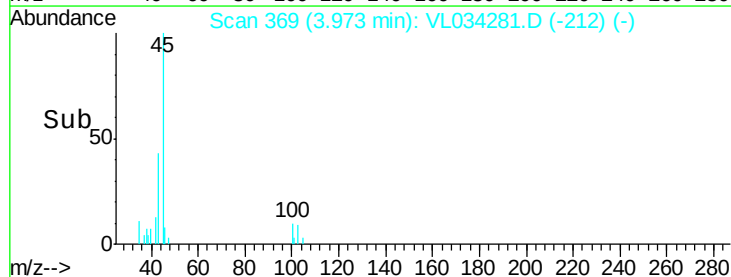
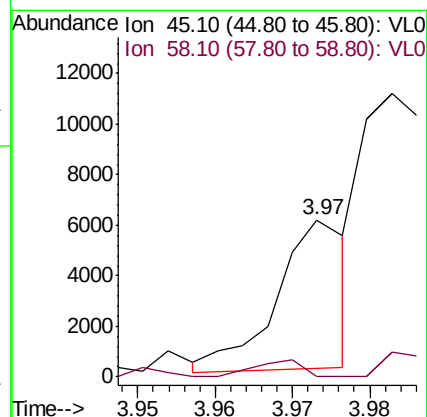
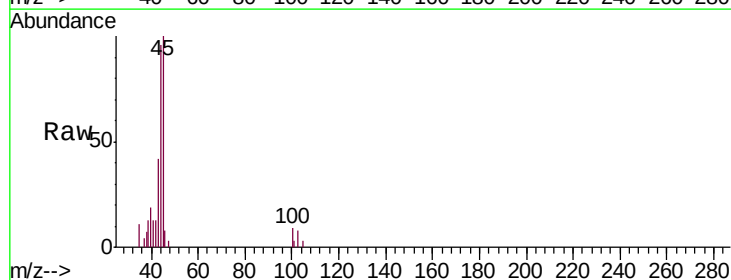
Acq: 14 Oct 2019 14:39

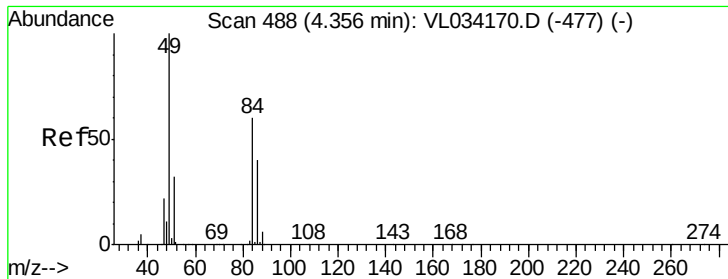
Tgt Ion: 45 Resp: 3732

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#

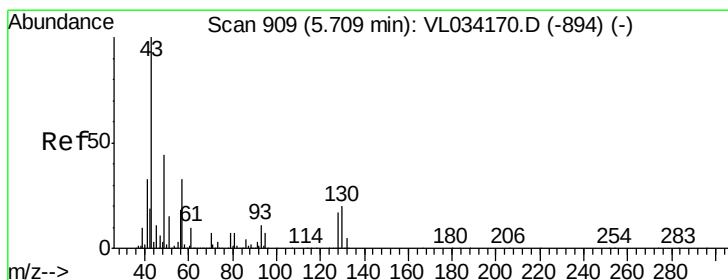
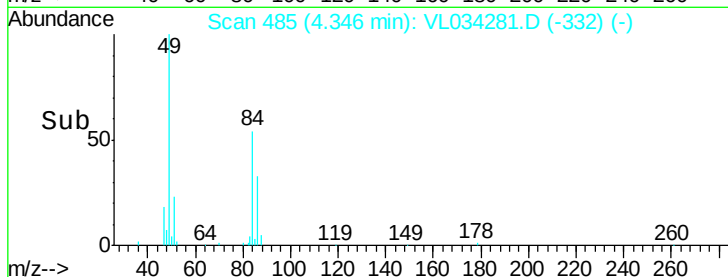
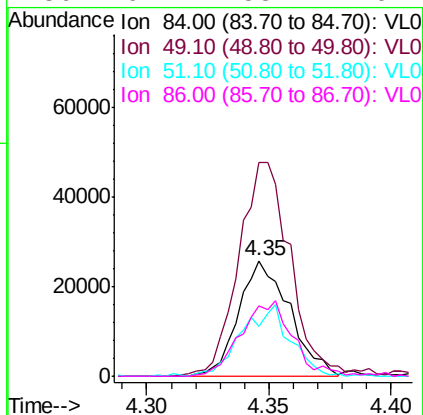
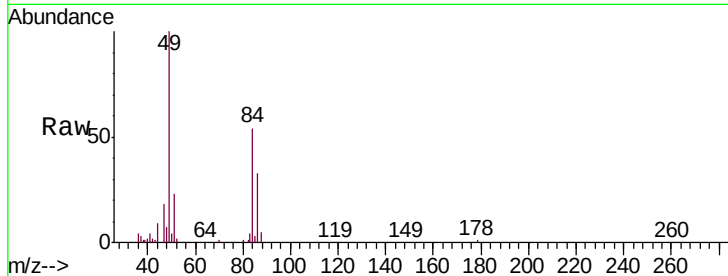




#20
Methylene Chloride
Concen: 0.985 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.01 min
Lab File: VL034281.D
Acq: 14 Oct 2019 14:39

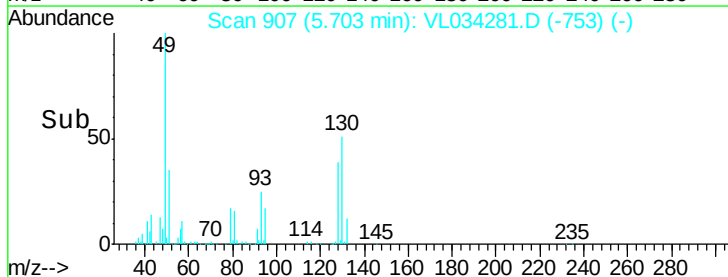
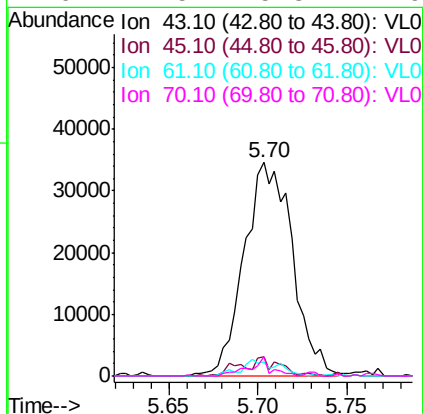
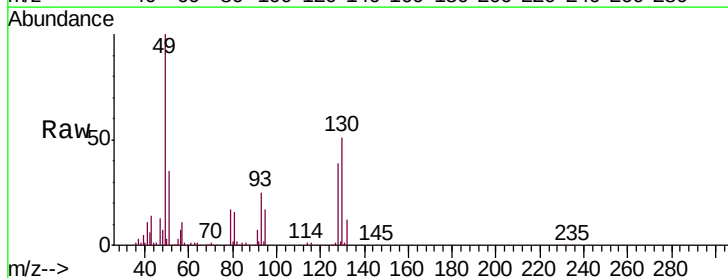
Instrument :
MSVOA_L
ClientSampleId :
AA-1

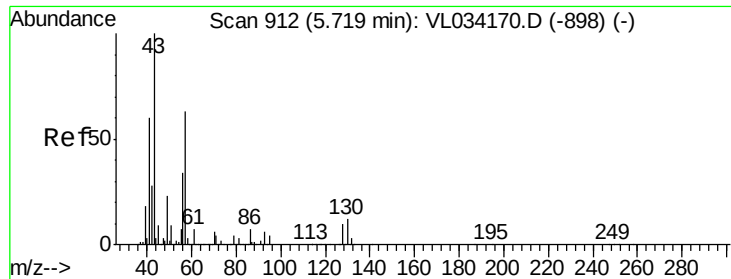
Tgt Ion: 84 Resp: 37440
Ion Ratio Lower Upper
84 100
49 182.8 133.8 200.8
51 43.0 43.6 65.4#
86 61.2 53.1 79.7



#25
Ethyl Acetate
Concen: 0.262 ppbv
RT: 5.70 min Scan# 907
Delta R.T. -0.01 min
Lab File: VL034281.D
Acq: 14 Oct 2019 14:39

Tgt Ion: 43 Resp: 65424
Ion Ratio Lower Upper
43 100
45 7.4 8.4 12.6#
61 6.0 7.2 10.8#
70 4.5 5.3 7.9#





#26

Hexane

Concen: 0.278 ppbv

RT: 5.71 min Scan# 908

Delta R.T. -0.01 min

Lab File: VL034281.D

Acq: 14 Oct 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tgt Ion: 57 Resp: 28795

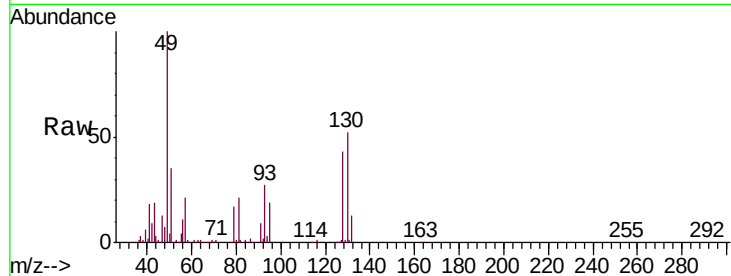
Ion Ratio Lower Upper

57 100

41 0.0 78.5 117.7#

43 230.6 189.5 284.3

56 99.5 43.2 64.8#

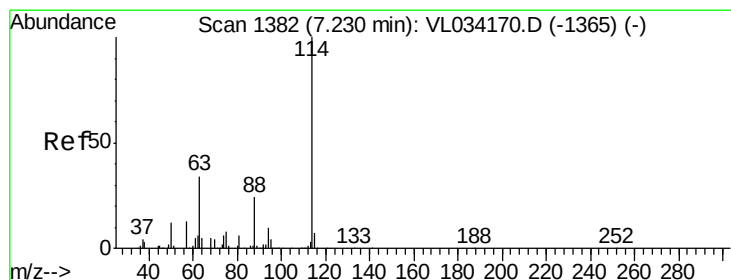
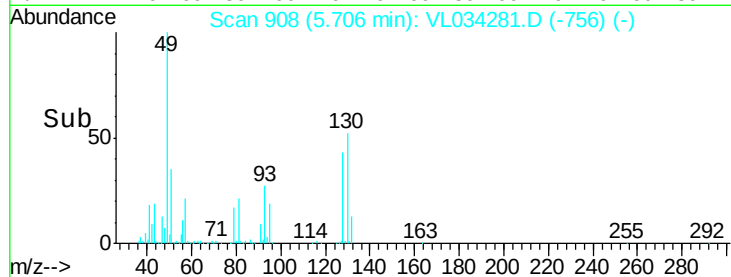
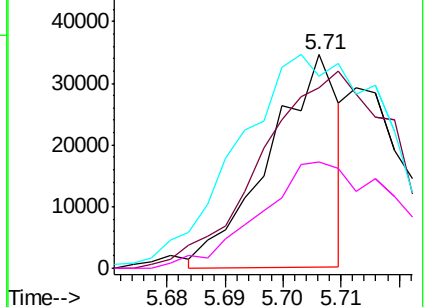


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 7.21 min Scan# 1376

Delta R.T. -0.02 min

Lab File: VL034281.D

Acq: 14 Oct 2019 14:39

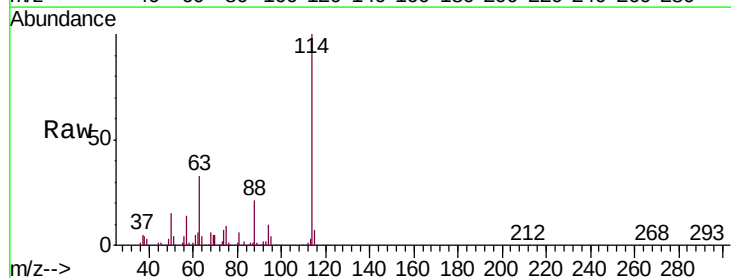
Tgt Ion: 114 Resp: 1654476

Ion Ratio Lower Upper

114 100

63 33.3 27.8 41.6

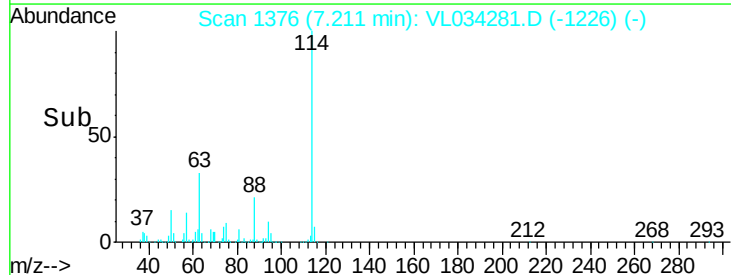
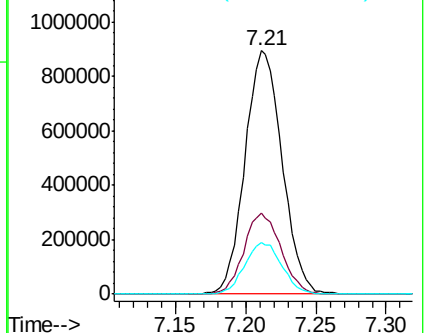
88 21.1 17.1 25.7

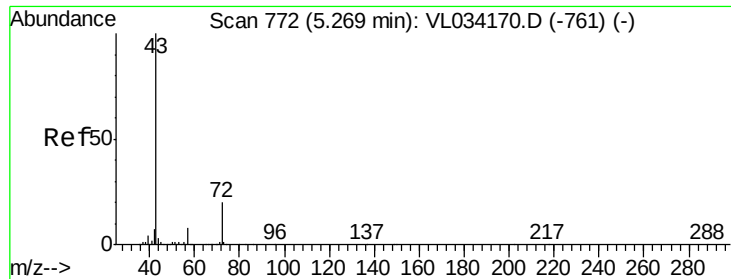


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

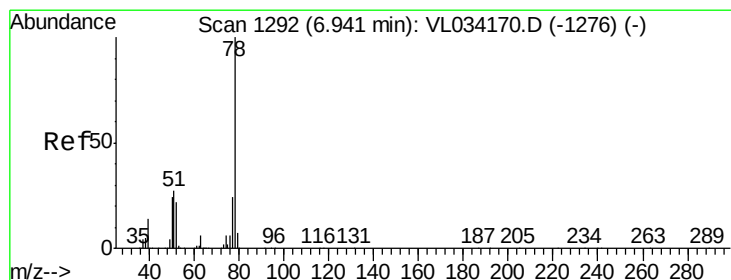
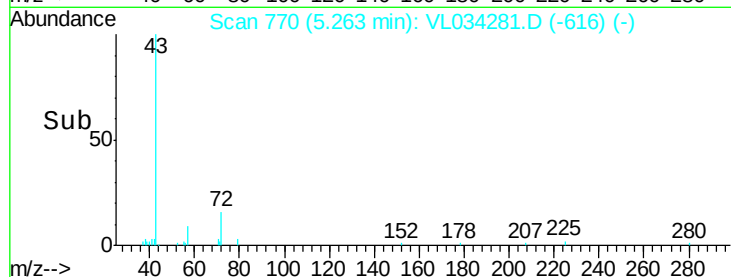
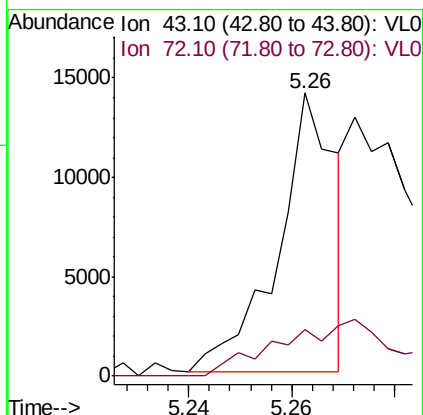
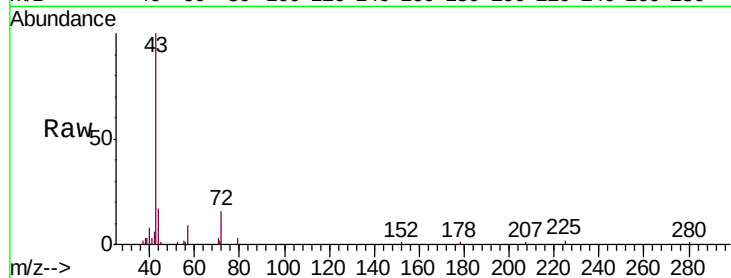




#34
 2-Butanone
 Concen: 0.064 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. -0.01 min
 Lab File: VL034281.D
 Acq: 14 Oct 2019 14:39

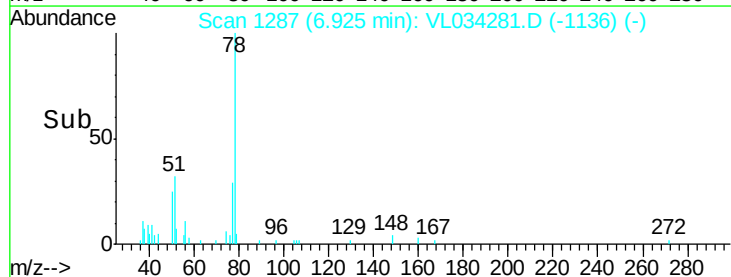
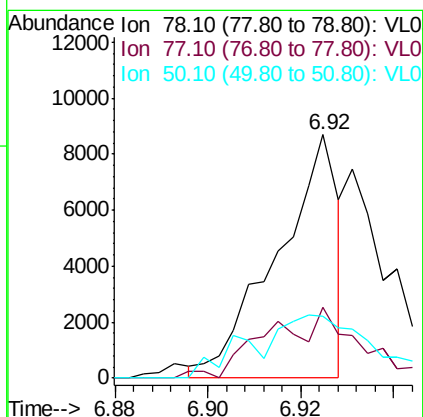
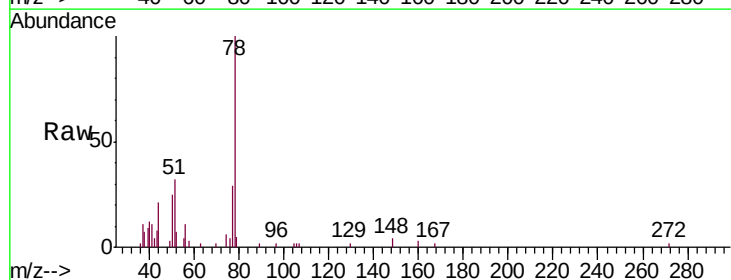
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

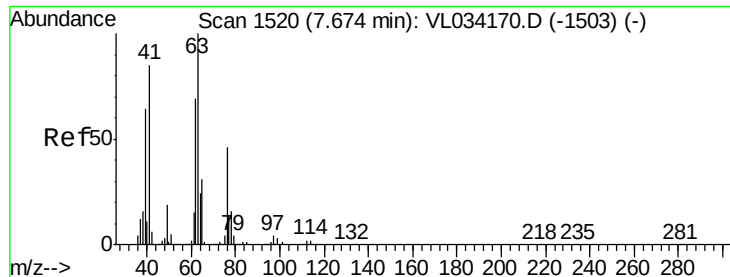
Tgt Ion: 43 Resp: 10895
 Ion Ratio Lower Upper
 43 100
 72 0.0 15.0 22.6#



#36
 Benzene
 Concen: 0.044 ppbv
 RT: 6.92 min Scan# 1287
 Delta R.T. -0.02 min
 Lab File: VL034281.D
 Acq: 14 Oct 2019 14:39

Tgt Ion: 78 Resp: 7972
 Ion Ratio Lower Upper
 78 100
 77 27.8 19.0 28.4
 50 26.5 18.9 28.3





#39

1,2-Dichloropropane

Concen: 6.682 ppbv

RT: 7.21 min Scan# 1376

Delta R.T. -0.46 min

Lab File: VL034281.D

Acq: 14 Oct 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

AA-1

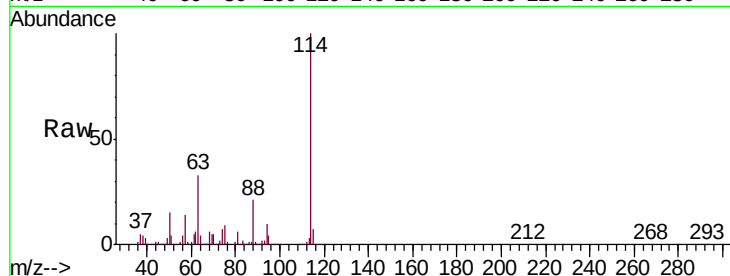
Tgt Ion: 63 Resp: 548633

Ion Ratio Lower Upper

63 100

41 0.0 68.4 102.6#

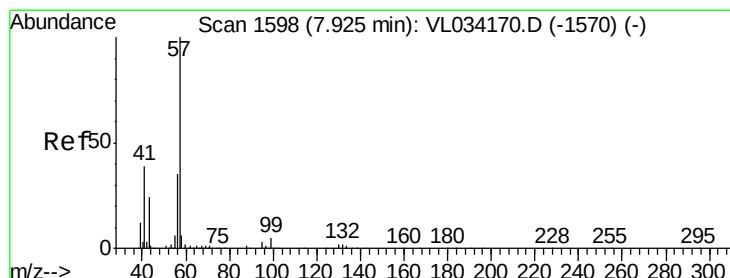
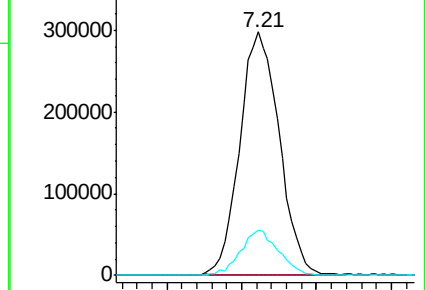
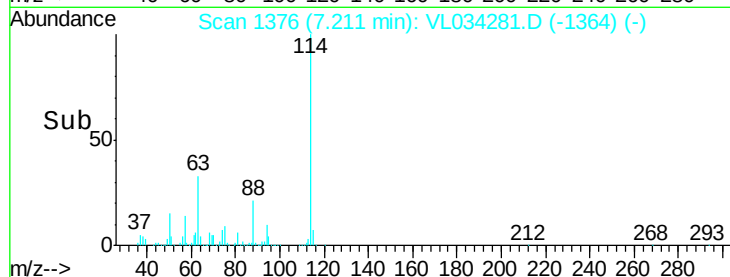
62 18.2 55.4 83.2#



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



#44

2,2,4-Trimethylpentane

Concen: 0.038 ppbv

RT: 7.91 min Scan# 1592

Delta R.T. -0.02 min

Lab File: VL034281.D

Acq: 14 Oct 2019 14:39

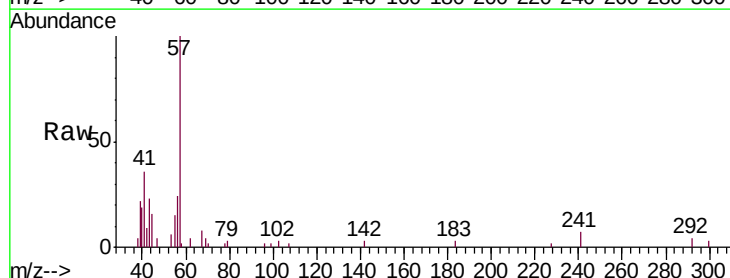
Tgt Ion: 57 Resp: 13355

Ion Ratio Lower Upper

57 100

41 66.8 29.8 44.6#

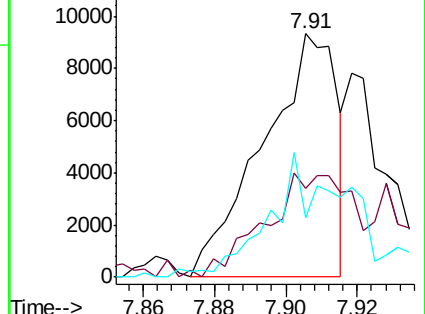
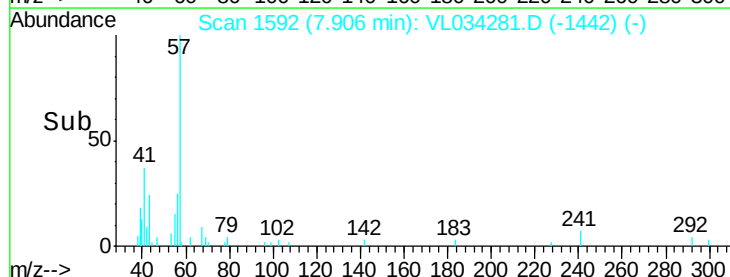
56 60.0 25.9 38.9#

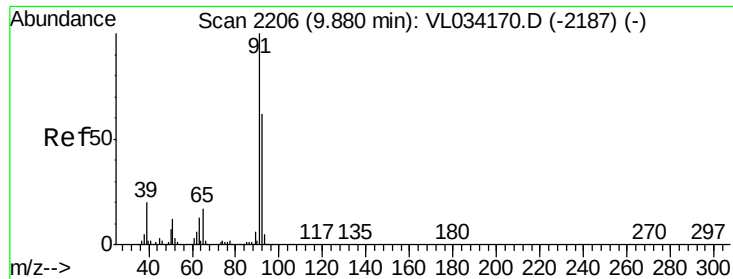


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 0.055 ppbv

RT: 9.85 min Scan# 2198

Delta R.T. -0.03 min

Lab File: VL034281.D

Acq: 14 Oct 2019 14:39

Instrument :

MSVOA_L

ClientSampled :

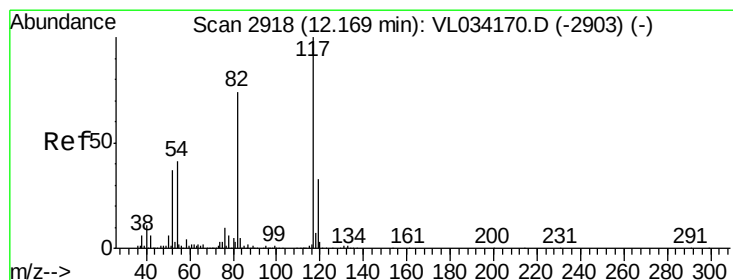
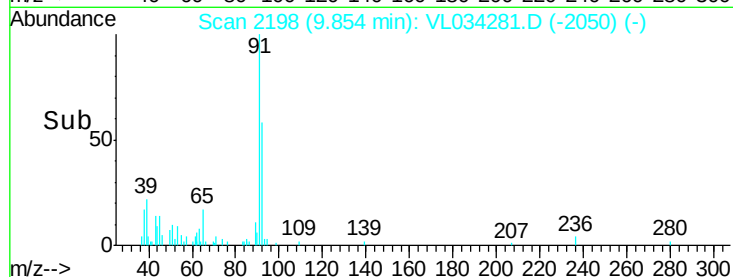
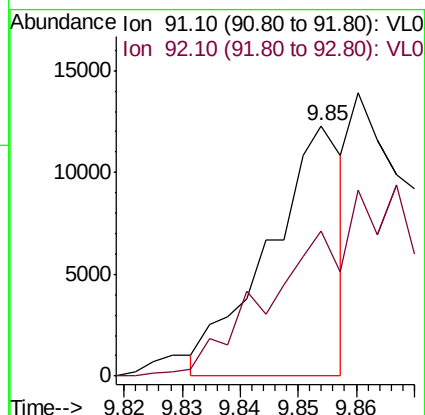
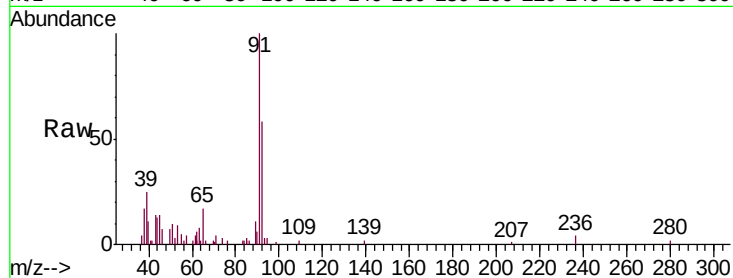
AA-1

Tgt Ion: 91 Resp: 10923

Ion Ratio Lower Upper

91 100

92 0.0 49.0 73.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. -0.02 min

Lab File: VL034281.D

Acq: 14 Oct 2019 14:39

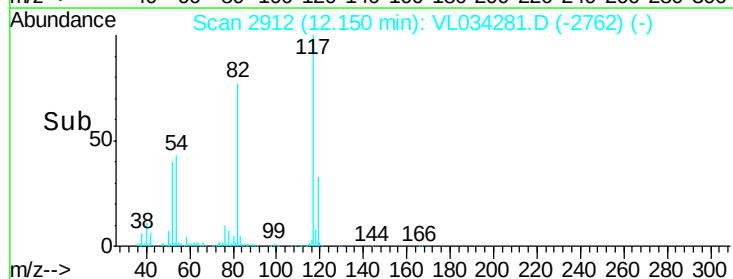
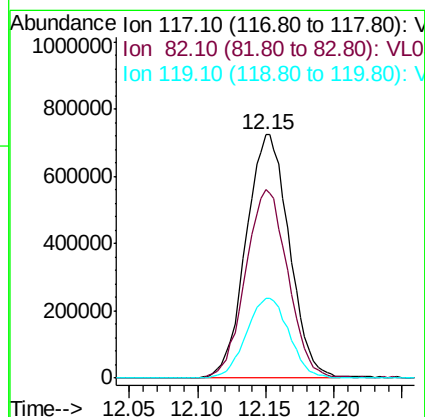
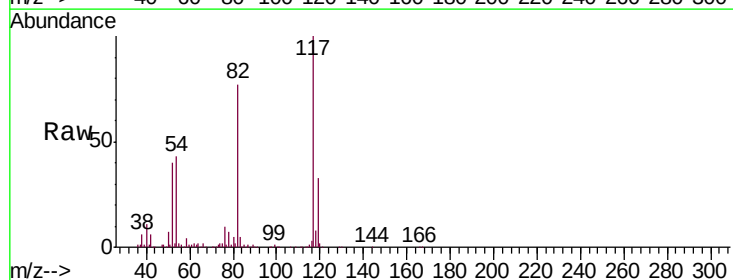
Tgt Ion: 117 Resp: 1589103

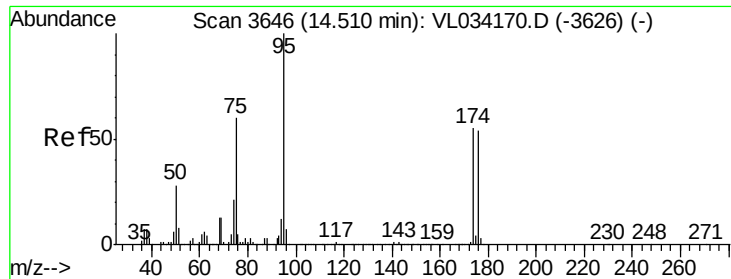
Ion Ratio Lower Upper

117 100

82 76.4 58.2 87.4

119 32.7 23.7 35.5





#68

1-Bromo-4-Fluorobenzene

Concen: 10.286 ppbv

RT: 14.49 min Scan# 3640

Delta R.T. -0.02 min

Lab File: VL034281.D

Acq: 14 Oct 2019 14:39

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tgt Ion: 95 Resp: 1420317

Ion Ratio Lower Upper

95 100

174 55.9 45.1 67.7

175 3.9 3.3 4.9

