

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031720\
 Data File : VL034917.D
 Acq On : 17 Mar 2020 16:05
 Operator : SY/AP
 Sample : L1952-01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Quant Time: Mar 18 06:59:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	899751	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1941809	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	1898033	10.00	ppbv	0.00

System Monitoring Compounds

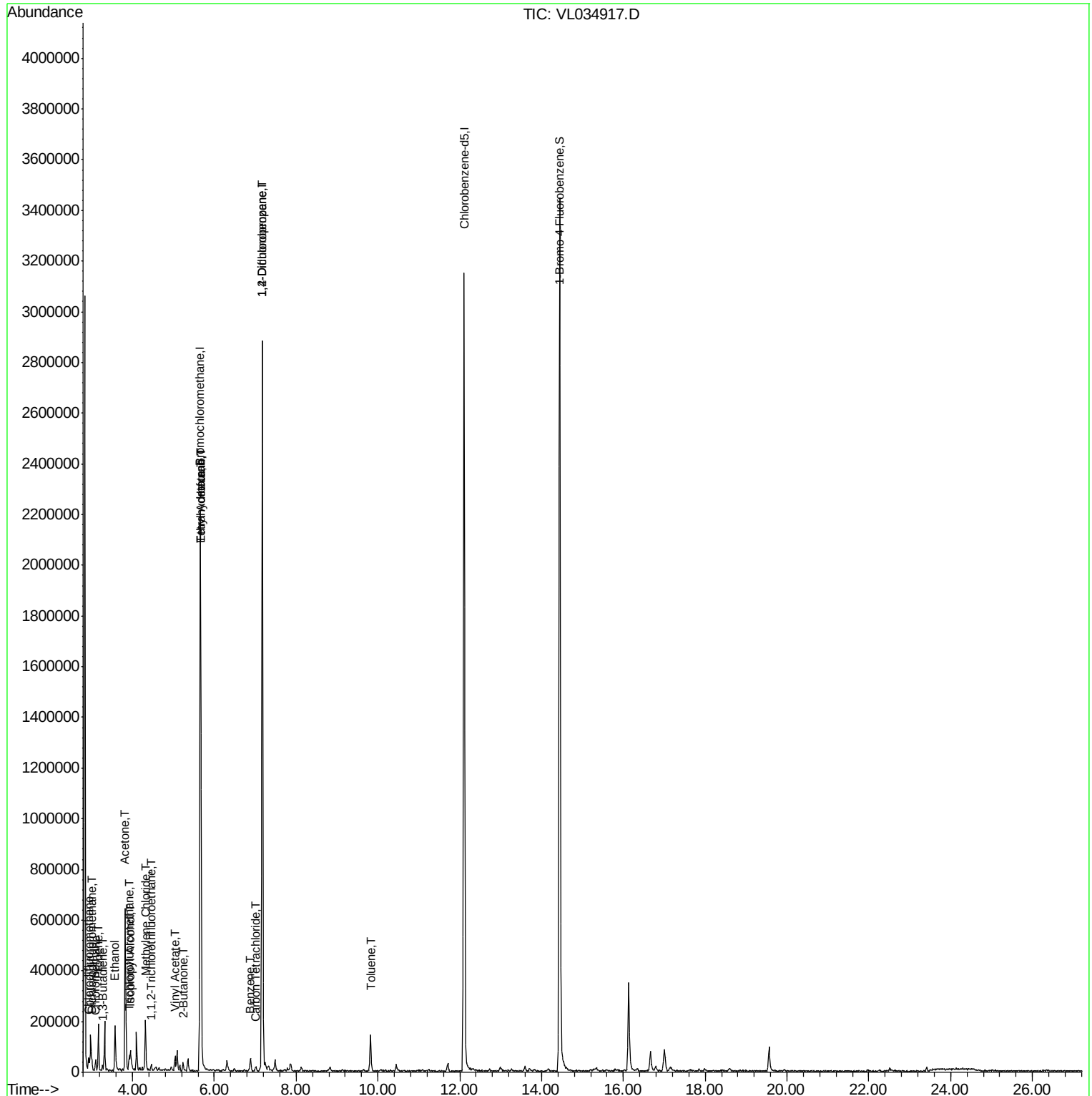
68) 1-Bromo-4-Fluorobenzene	14.44	95	1641312	11.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.90%

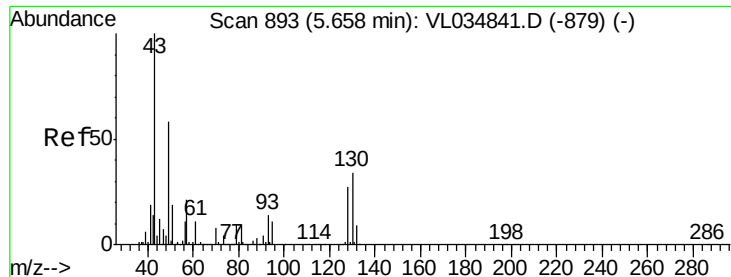
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.01	85	29243	0.237	ppbv #	88
3) Chlorodifluoromethane	2.94	51	63161	0.628	ppbv #	83
4) Chloromethane	3.10	50	35311	0.622	ppbv #	83
9) Propene	3.17	41	34744	0.724	ppbv	83
11) Trichlorofluoromethane	3.92	101	32741	0.250	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.45	101	3258	0.036	ppbv #	11
13) Ethanol	3.57	45	186379	12.775	ppbv	96
15) Acetone	3.82	43	643419	5.517	ppbv	99
16) 1,3-Butadiene	3.27	39	4712	0.089	ppbv #	57
19) Isopropyl Alcohol	3.94	45	73998	1.005	ppbv #	49
20) Methylene Chloride	4.31	84	26327	0.714	ppbv	94
23) Vinyl Acetate	5.04	43	32098	0.186	ppbv #	63
25) Ethyl Acetate	5.67	43	263110	1.266	ppbv #	78
26) Hexane	5.67	57	367405	4.107	ppbv #	40
34) 2-Butanone	5.24	43	33819	0.262	ppbv	98
35) Carbon Tetrachloride	7.02	117	8878	0.074	ppbv	91
36) Benzene	6.87	78	6838	0.040	ppbv	98
39) 1,2-Dichloropropane	7.17	63	531195	7.746	ppbv #	22
41) Tetrahydrofuran	5.67	42	139539	1.998	ppbv #	50
53) Toluene	9.82	91	57524	0.288	ppbv #	20

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL031720\
Data File : VL034917.D
Acq On : 17 Mar 2020 16:05
Operator : SY/AP
Sample : L1952-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 18 06:59:13 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL034917.D

Acq: 17 Mar 2020 16:05

Instrument :

MSVOA_L

ClientSampleId :

AA-1

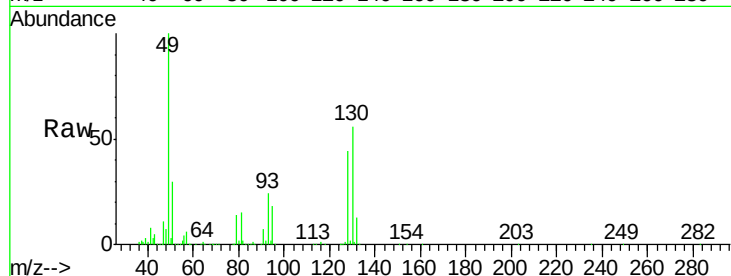
Tgt Ion: 49 Resp: 899751

Ion Ratio Lower Upper

49 100

128 45.7 23.4 70.3

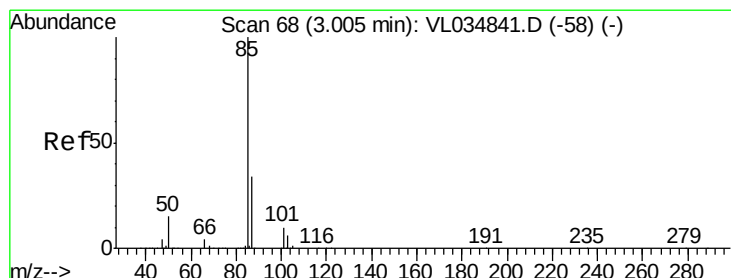
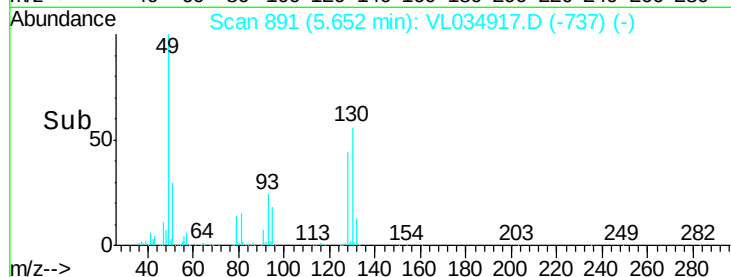
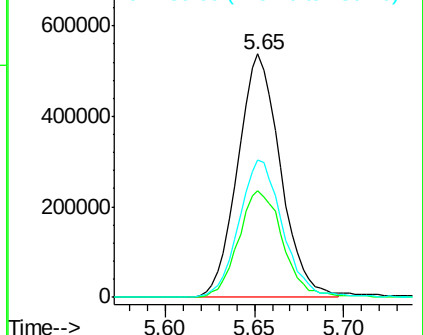
130 58.3 30.0 90.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.237 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL034917.D

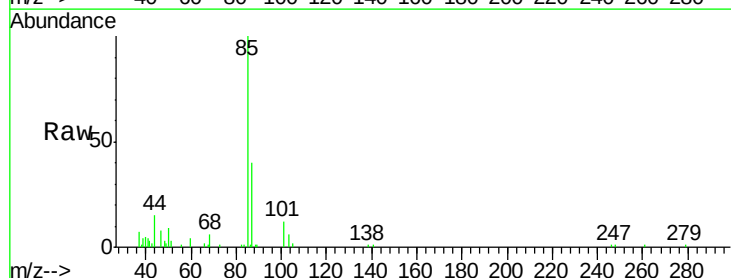
Acq: 17 Mar 2020 16:05

Tgt Ion: 85 Resp: 29243

Ion Ratio Lower Upper

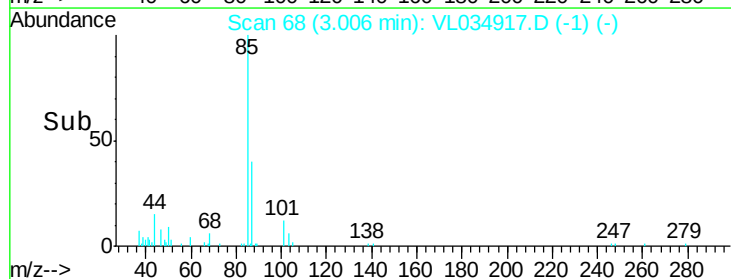
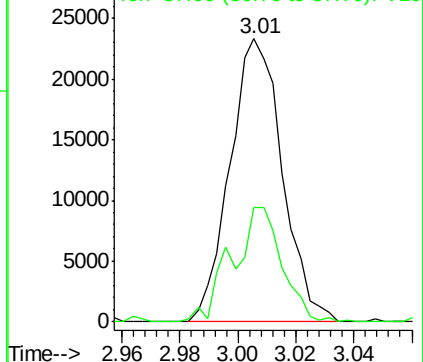
85 100

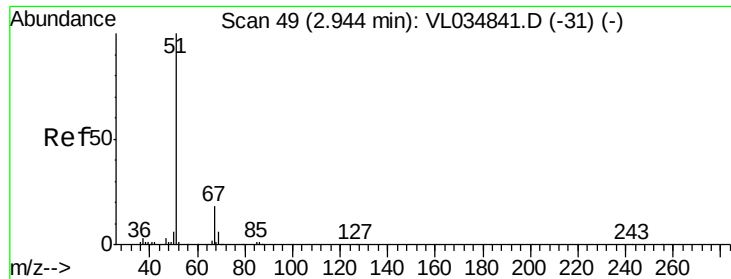
87 40.5 26.9 40.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

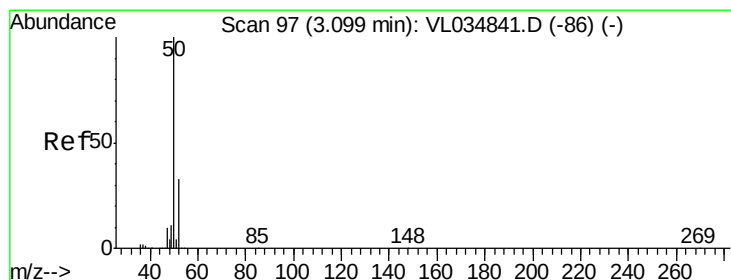
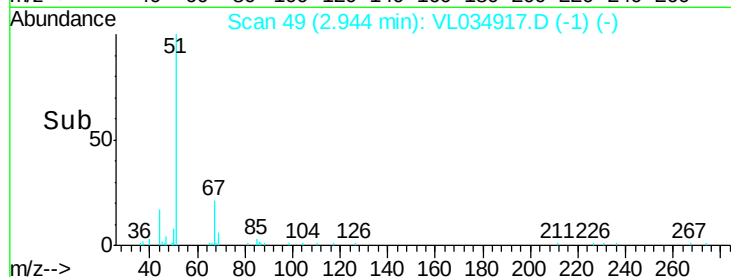
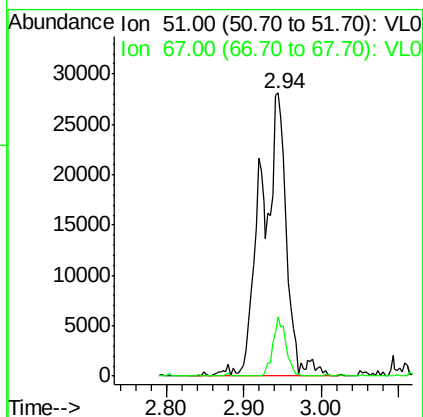
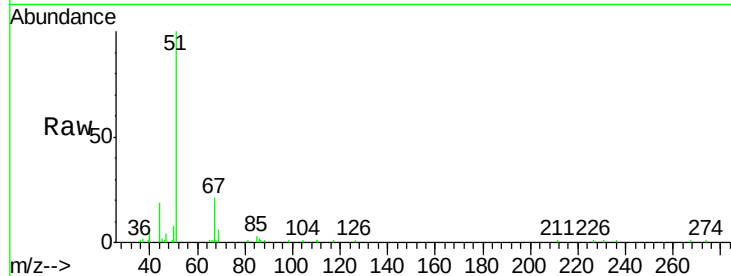




#3
 Chlorodifluoromethane
 Concen: 0.628 ppbv
 RT: 2.94 min Scan# 49
 Delta R.T. 0.00 min
 Lab File: VL034917.D
 Acq: 17 Mar 2020 16:05

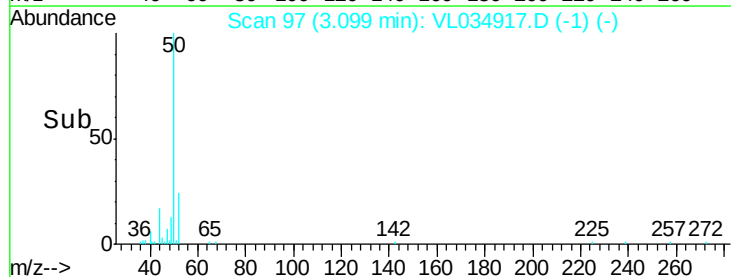
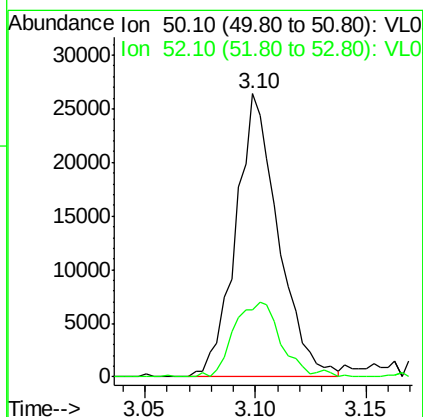
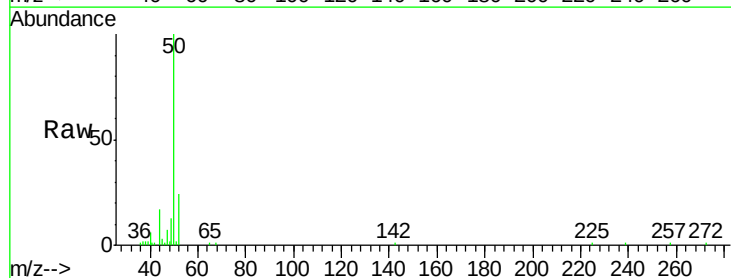
Instrument :
 MSVOA_L
 ClientSampled :
 AA-1

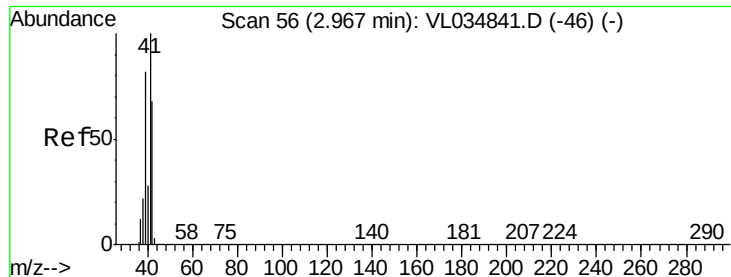
Tgt Ion: 51 Resp: 63161
 Ion Ratio Lower Upper
 51 100
 67 10.5 14.3 21.5#



#4
 Chloromethane
 Concen: 0.622 ppbv
 RT: 3.10 min Scan# 97
 Delta R.T. 0.00 min
 Lab File: VL034917.D
 Acq: 17 Mar 2020 16:05

Tgt Ion: 50 Resp: 35311
 Ion Ratio Lower Upper
 50 100
 52 23.6 26.8 40.2#





#9

Propene

Concen: 0.724 ppbv

RT: 3.17 min Scan# 118

Delta R.T. 0.20 min

Lab File: VL034917.D

Acq: 17 Mar 2020 16:05

Instrument :

MSVOA_L

ClientSampleId :

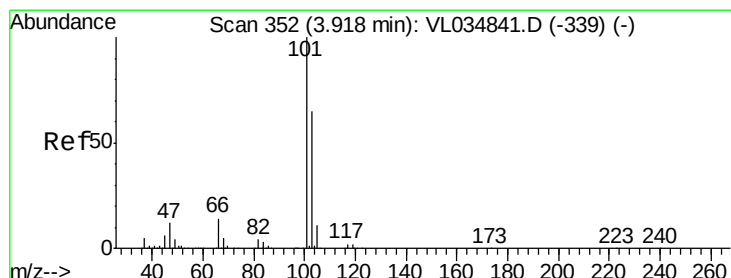
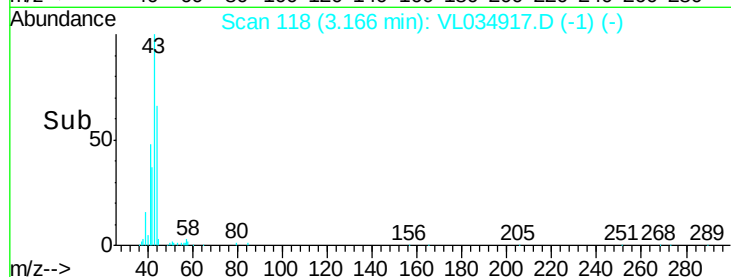
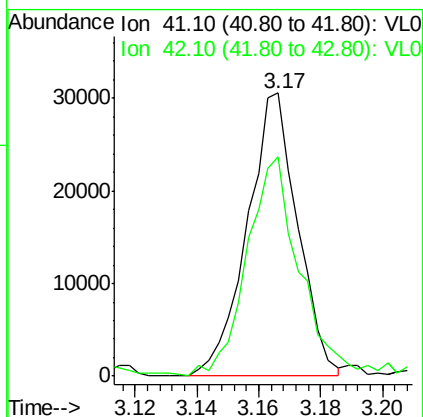
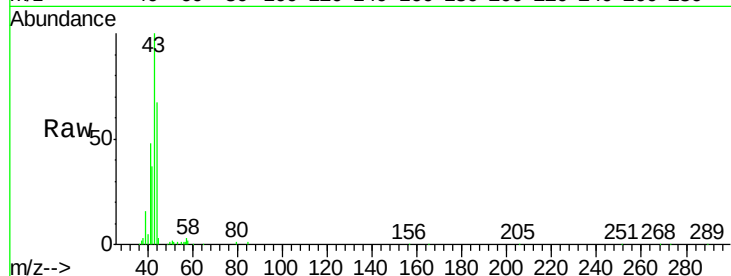
AA-1

Tgt Ion: 41 Resp: 34744

Ion Ratio Lower Upper

41 100

42 82.6 55.2 82.8



#11

Trichlorofluoromethane

Concen: 0.250 ppbv

RT: 3.92 min Scan# 352

Delta R.T. 0.00 min

Lab File: VL034917.D

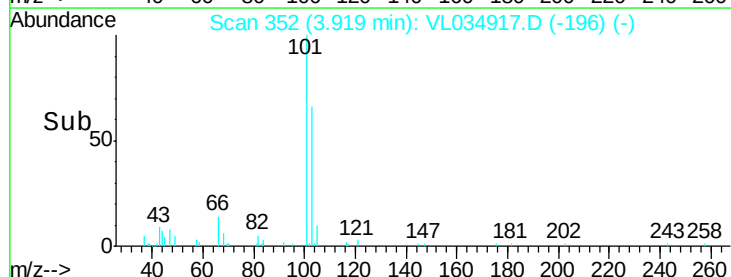
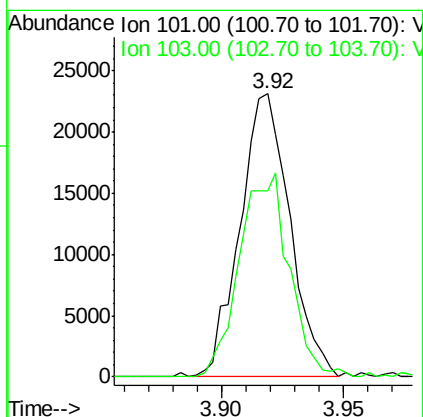
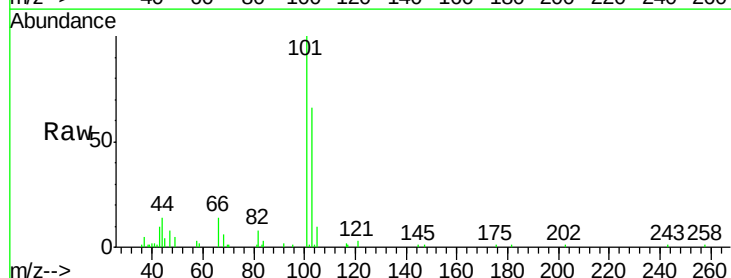
Acq: 17 Mar 2020 16:05

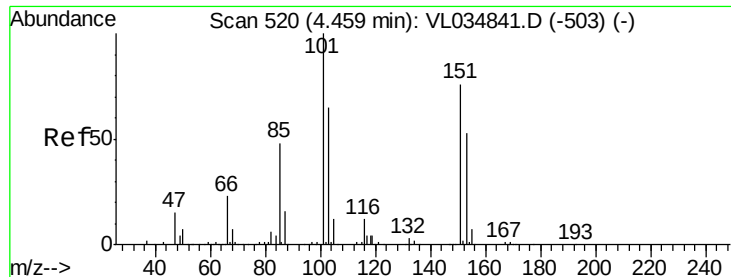
Tgt Ion: 101 Resp: 32741

Ion Ratio Lower Upper

101 100

103 65.6 51.8 77.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.036 ppbv

RT: 4.45 min Scan# 517

Delta R.T. -0.01 min

Lab File: VL034917.D

Acq: 17 Mar 2020 16:05

Instrument :

MSVOA_L

ClientSampleId :

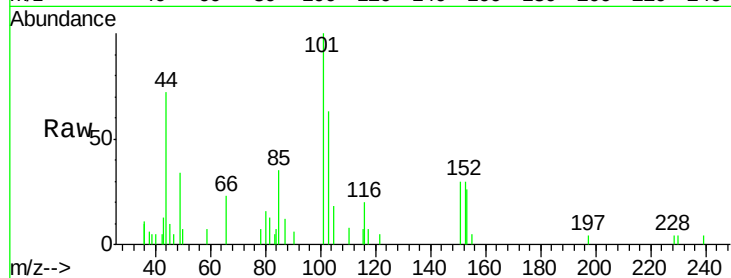
AA-1

Tgt Ion:101 Resp: 3258

Ion Ratio Lower Upper

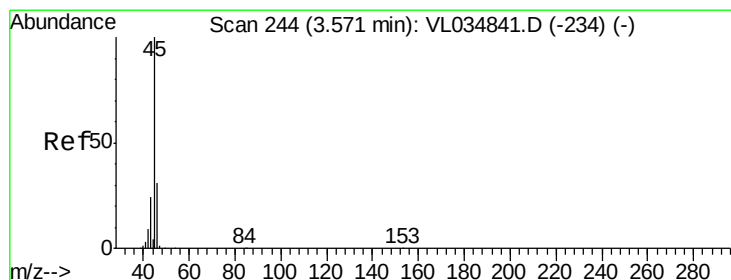
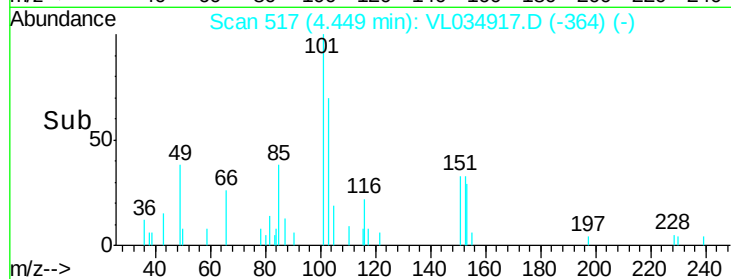
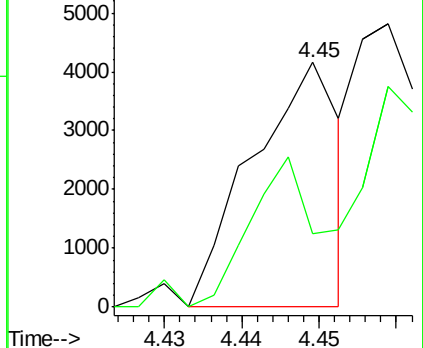
101 100

151 0.0 60.8 91.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 12.775 ppbv

RT: 3.57 min Scan# 242

Delta R.T. -0.01 min

Lab File: VL034917.D

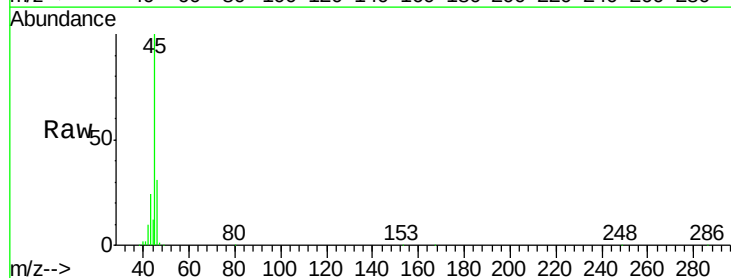
Acq: 17 Mar 2020 16:05

Tgt Ion: 45 Resp: 186379

Ion Ratio Lower Upper

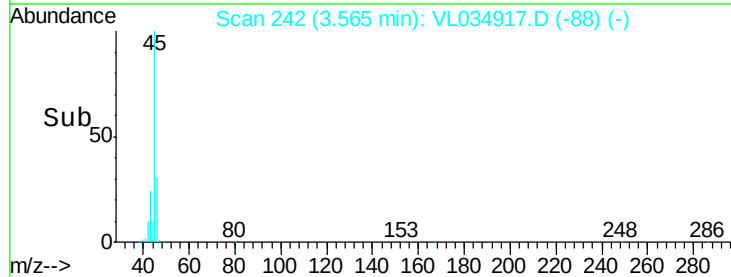
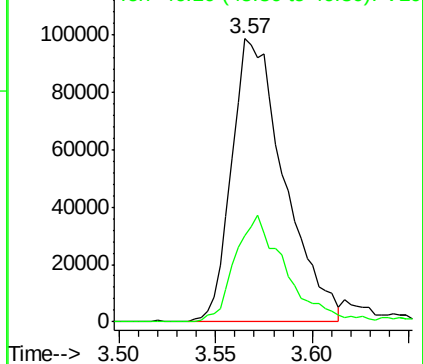
45 100

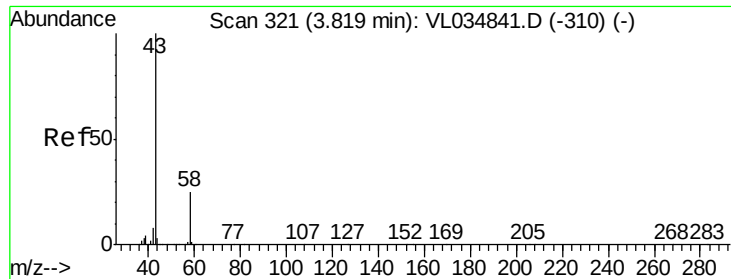
46 37.8 16.0 64.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

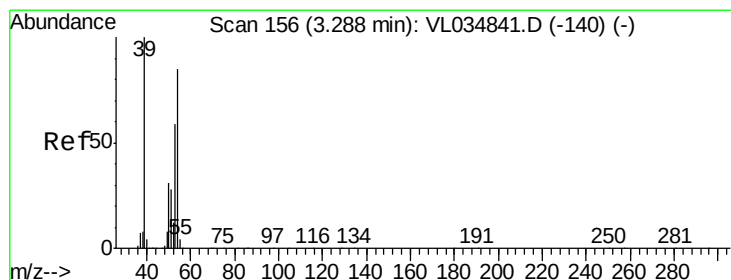
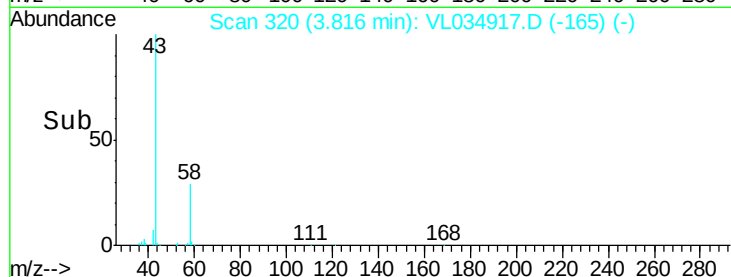
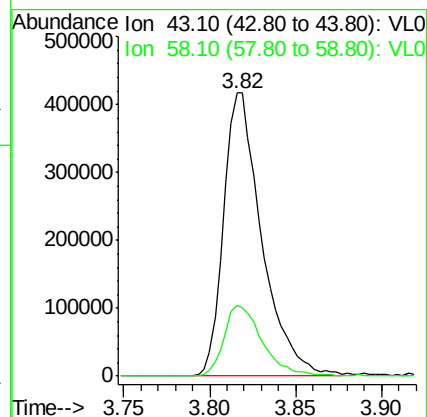
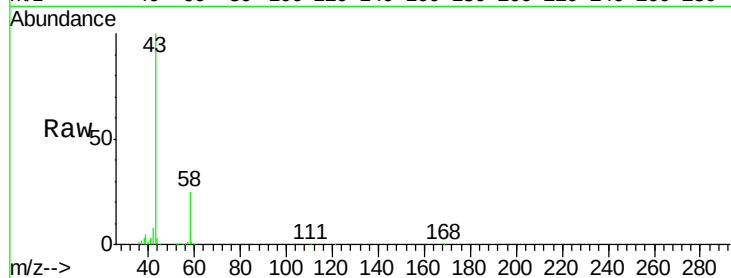




#15
Acetone
Concen: 5.517 ppbv
RT: 3.82 min Scan# 320
Delta R.T. -0.00 min
Lab File: VL034917.D
Acq: 17 Mar 2020 16:05

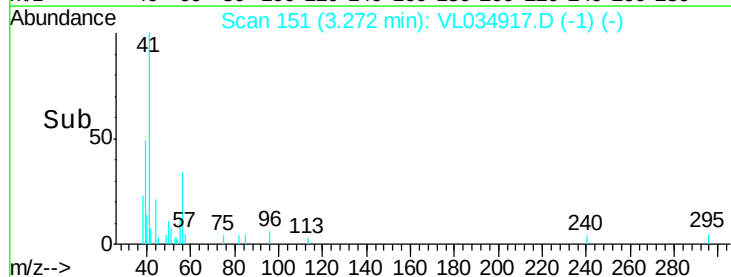
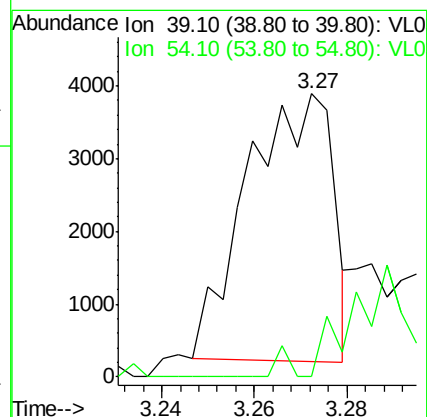
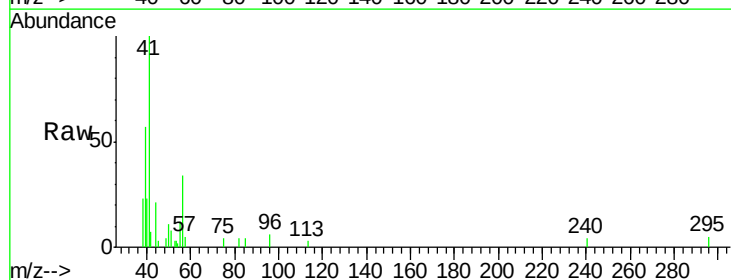
Instrument :
MSVOA_L
ClientSampleId :
AA-1

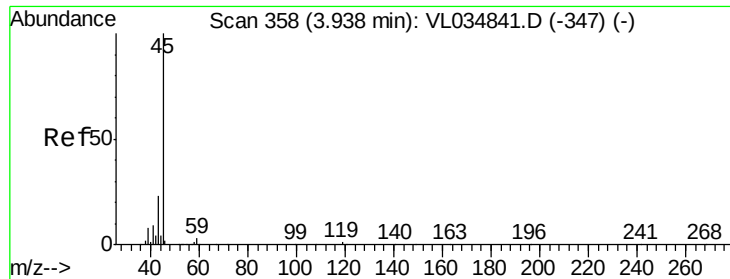
Tgt Ion: 43 Resp: 643419
Ion Ratio Lower Upper
43 100
58 25.6 21.0 31.6



#16
1,3-Butadiene
Concen: 0.089 ppbv
RT: 3.27 min Scan# 151
Delta R.T. -0.02 min
Lab File: VL034917.D
Acq: 17 Mar 2020 16:05

Tgt Ion: 39 Resp: 4712
Ion Ratio Lower Upper
39 100
54 43.0 65.0 97.6#

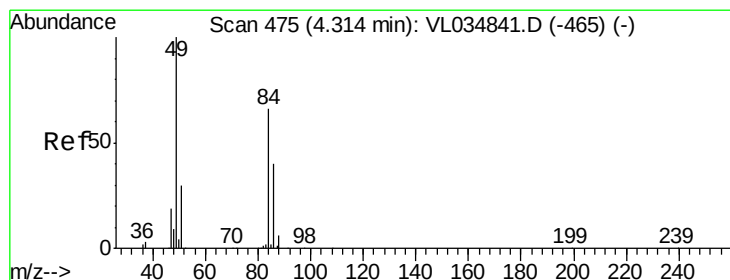
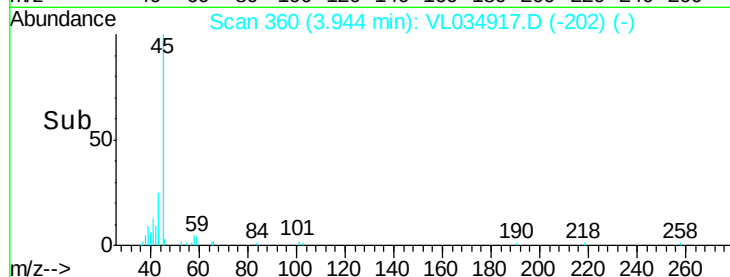
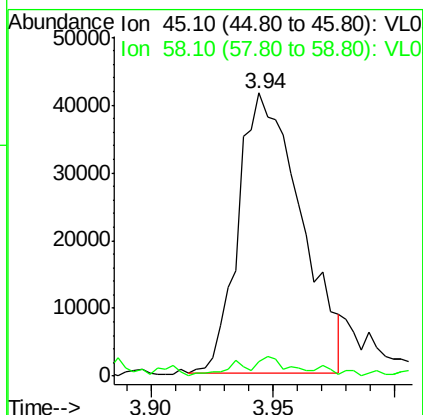
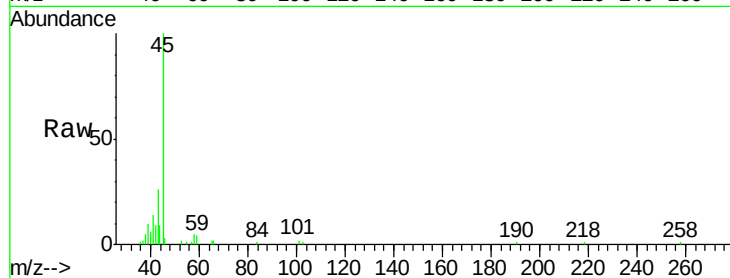




#19
Isopropyl Alcohol
Concen: 1.005 ppbv
RT: 3.94 min Scan# 360
Delta R.T. 0.01 min
Lab File: VL034917.D
Acq: 17 Mar 2020 16:05

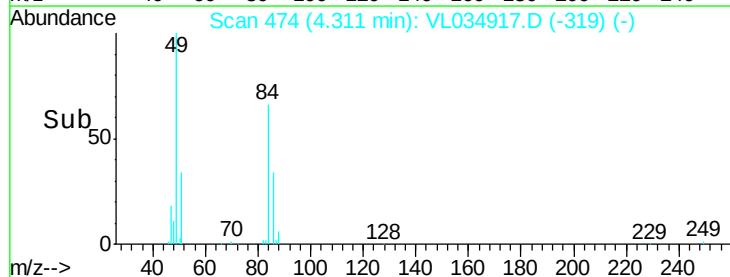
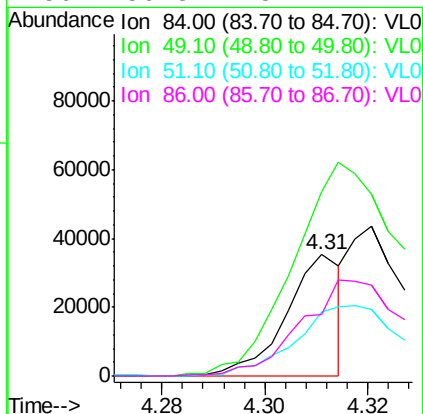
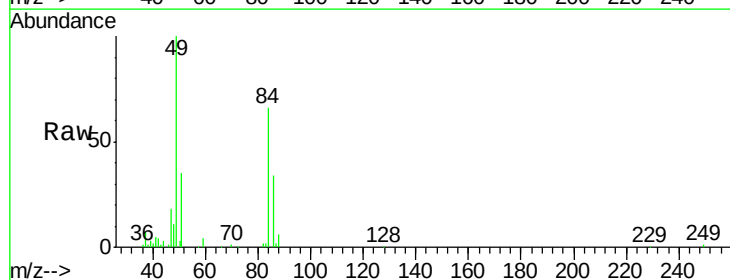
Instrument :
MSVOA_L
ClientSampleId :
AA-1

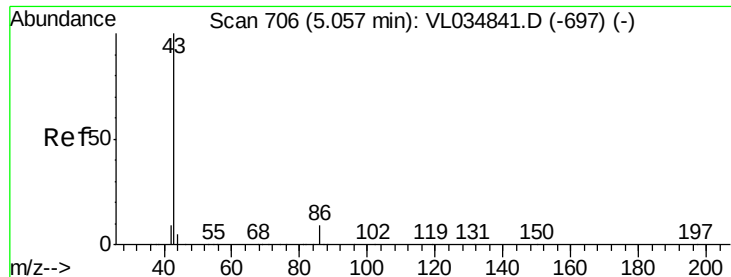
Tgt Ion: 45 Resp: 73998
Ion Ratio Lower Upper
45 100
58 7.4 30.5 45.7#



#20
Methylene Chloride
Concen: 0.714 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.00 min
Lab File: VL034917.D
Acq: 17 Mar 2020 16:05

Tgt Ion: 84 Resp: 26327
Ion Ratio Lower Upper
84 100
49 149.6 121.5 182.3
51 52.5 36.6 55.0
86 50.3 48.2 72.2





#23

Vinyl Acetate

Concen: 0.186 ppbv

RT: 5.04 min Scan# 701

Delta R.T. -0.02 min

Lab File: VL034917.D

Acq: 17 Mar 2020 16:05

Instrument :

MSVOA_L

ClientSampleId :

AA-1

Tgt Ion: 43 Resp: 32098

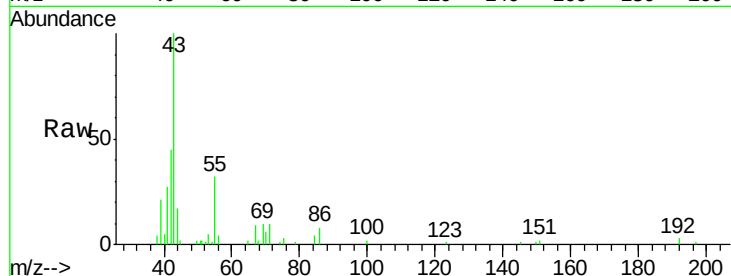
Ion Ratio Lower Upper

43 100

86 7.6 6.3 9.5

42 40.6 7.8 11.8#

44 6.3 4.0 6.0#

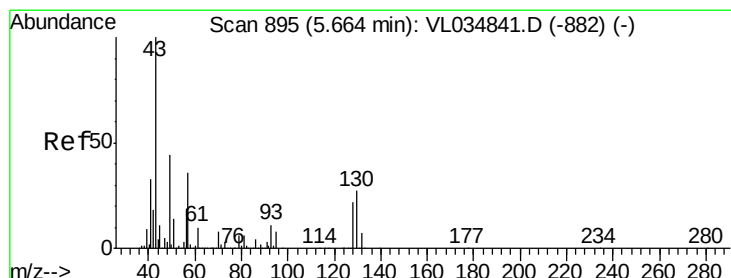
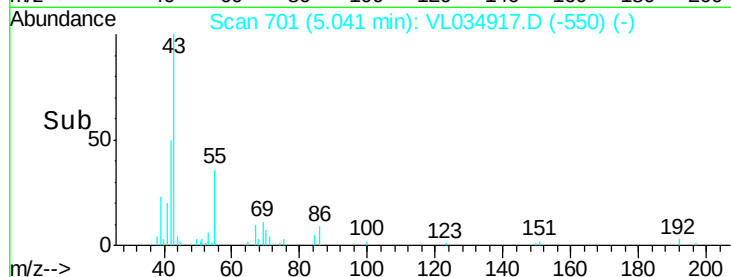
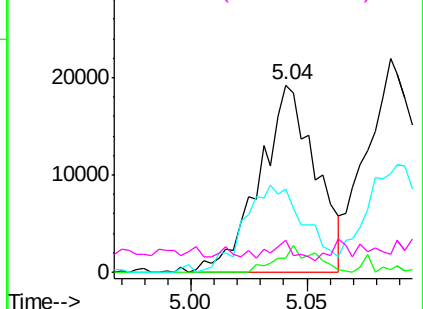


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 1.266 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.01 min

Lab File: VL034917.D

Acq: 17 Mar 2020 16:05

Tgt Ion: 43 Resp: 263110

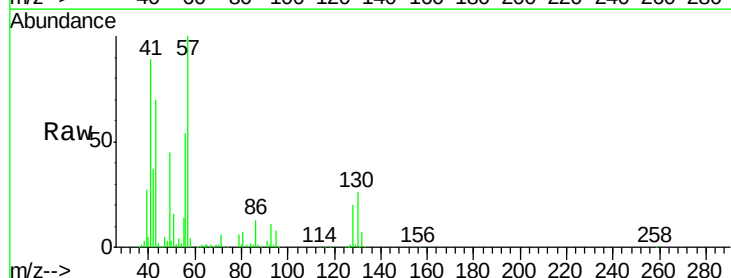
Ion Ratio Lower Upper

43 100

45 1.0 8.2 12.2#

61 0.6 7.8 11.6#

70 1.9 5.8 8.8#

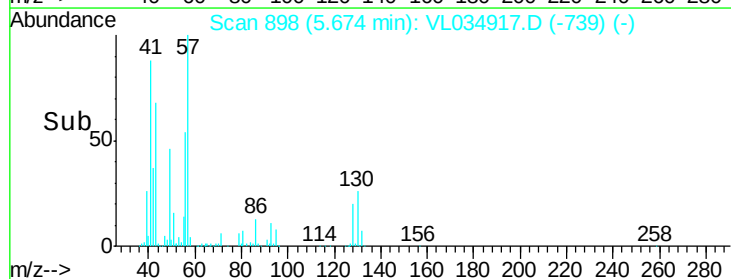
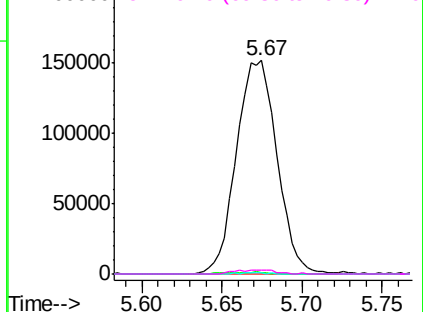


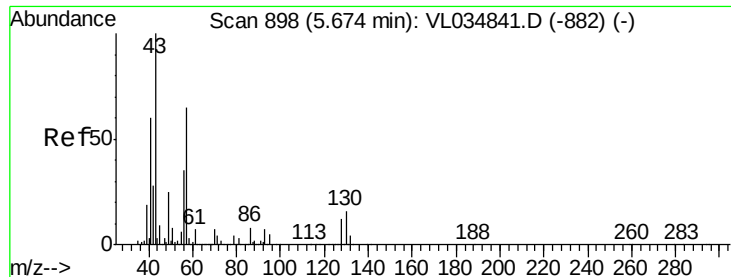
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

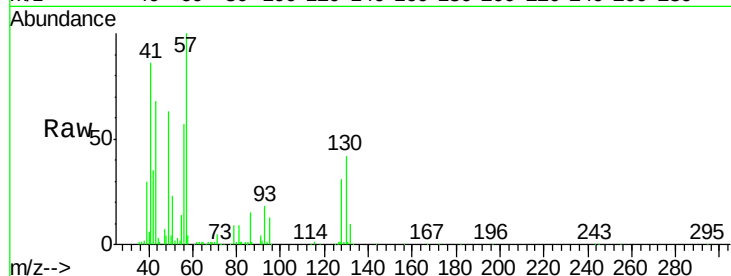




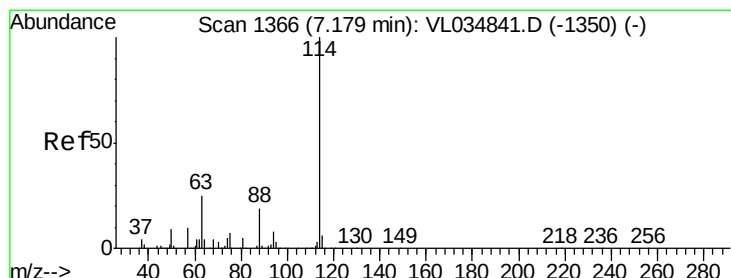
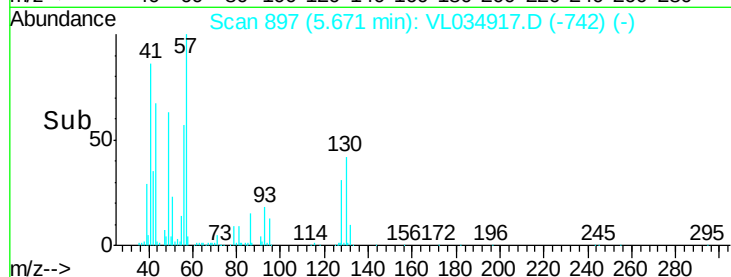
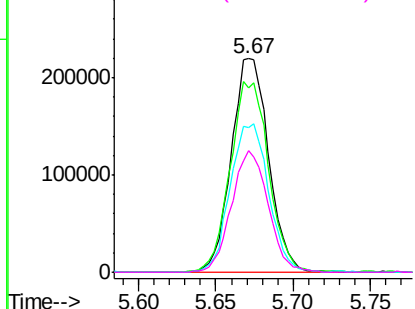
#26
Hexane
Concen: 4.107 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.00 min
Lab File: VL034917.D
Acq: 17 Mar 2020 16:05

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion:	57	Resp:	367405
Ion	Ratio	Lower	Upper
57	100		
41	92.8	72.6	109.0
43	72.2	183.8	275.6#
56	56.0	41.9	62.9

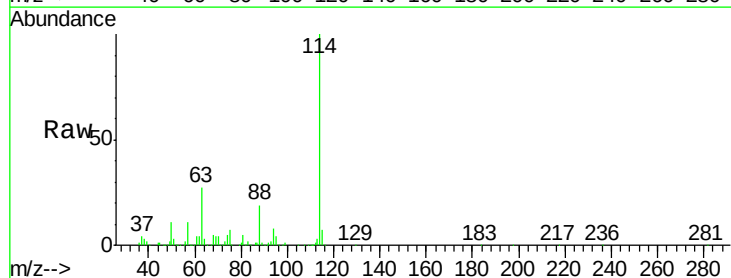


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

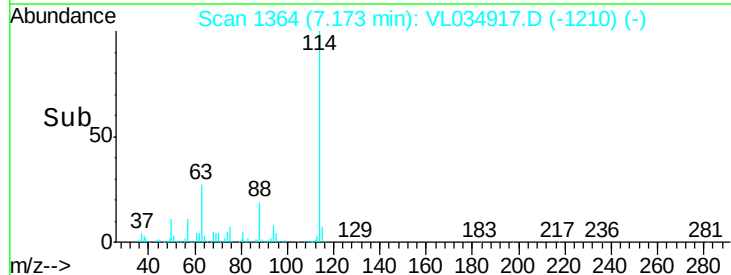
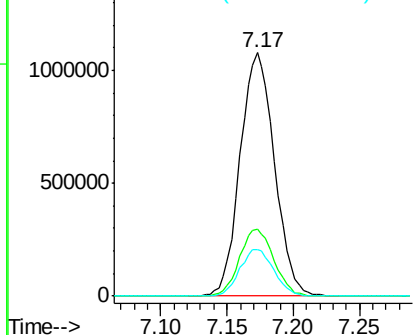


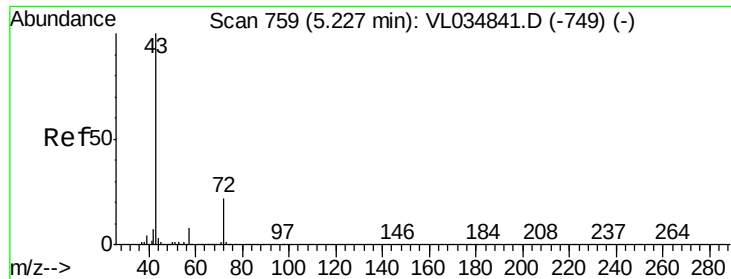
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL034917.D
Acq: 17 Mar 2020 16:05

Tgt Ion:	114	Resp:	1941809
Ion	Ratio	Lower	Upper
114	100		
63	27.5	20.6	31.0
88	19.2	15.0	22.6



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: 0.262 ppbv

RT: 5.24 min Scan# 762

Delta R.T. 0.01 min

Lab File: VL034917.D

Acq: 17 Mar 2020 16:05

Instrument :

MSVOA_L

ClientSampleId :

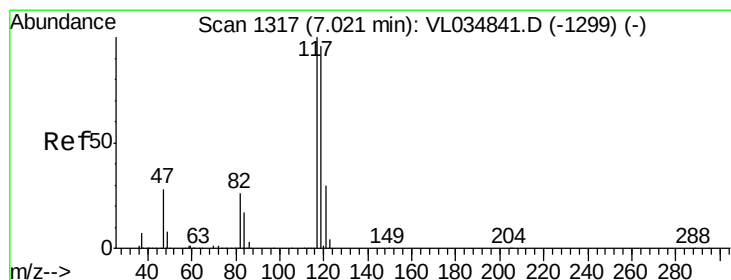
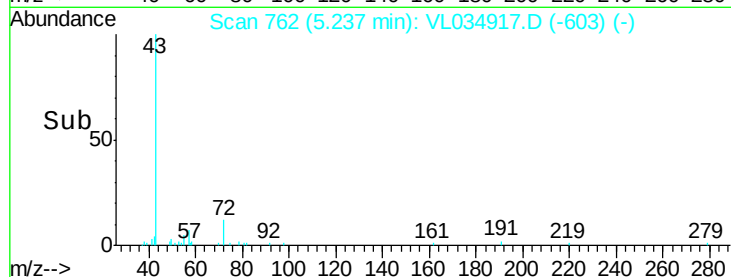
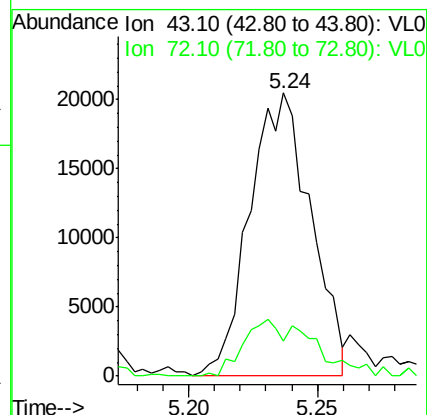
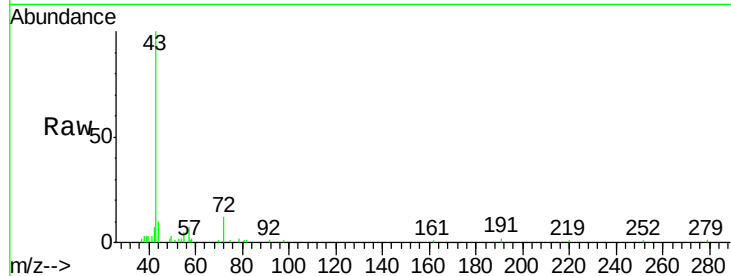
AA-1

Tgt Ion: 43 Resp: 33819

Ion Ratio Lower Upper

43 100

72 23.0 17.6 26.4



#35

Carbon Tetrachloride

Concen: 0.074 ppbv

RT: 7.02 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VL034917.D

Acq: 17 Mar 2020 16:05

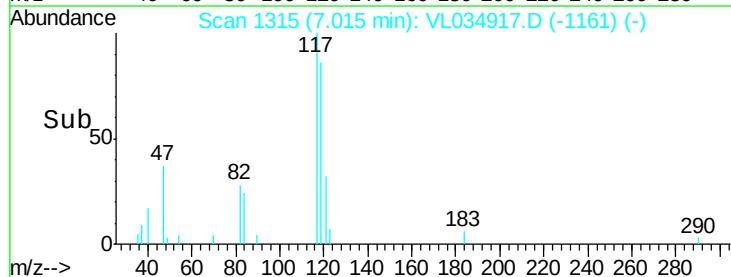
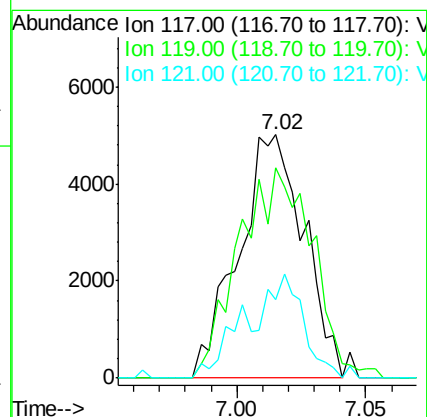
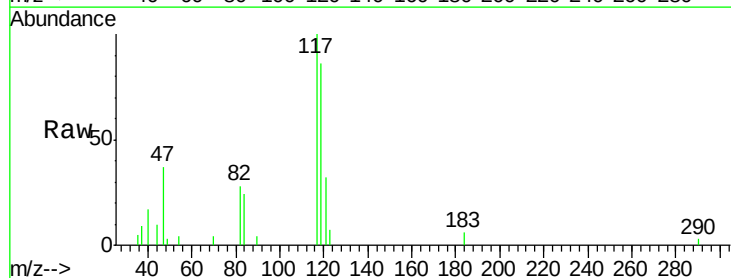
Tgt Ion: 117 Resp: 8878

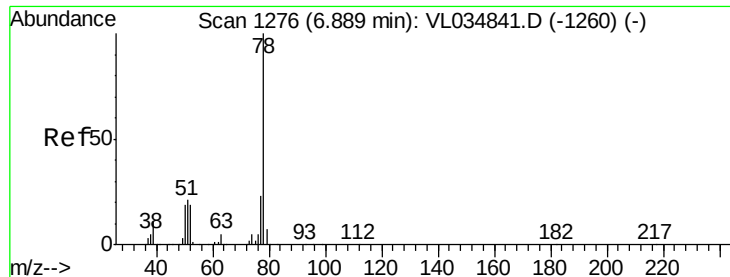
Ion Ratio Lower Upper

117 100

119 86.3 77.0 115.4

121 32.3 24.0 36.0





#36

Benzene

Concen: 0.040 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.02 min

Lab File: VL034917.D

Acq: 17 Mar 2020 16:05

Instrument :

MSVOA_L

ClientSampleId :

AA-1

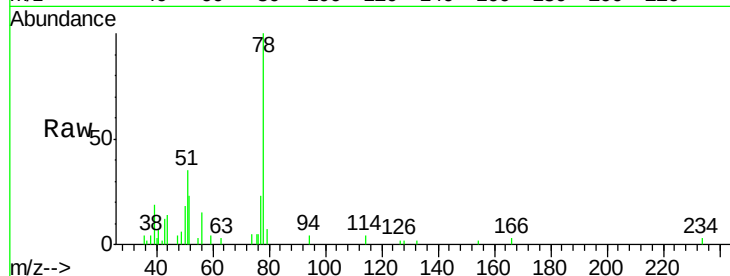
Tgt Ion: 78 Resp: 6838

Ion Ratio Lower Upper

78 100

77 21.5 18.2 27.2

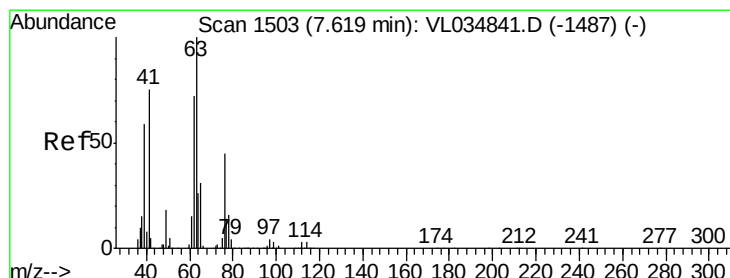
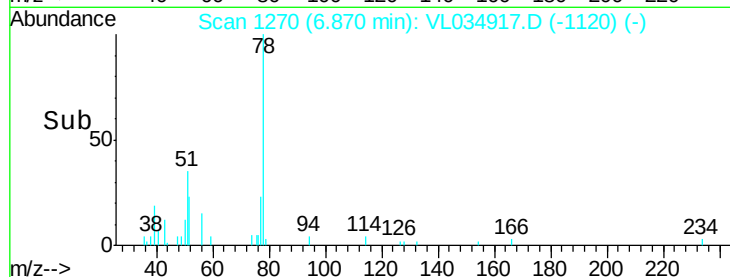
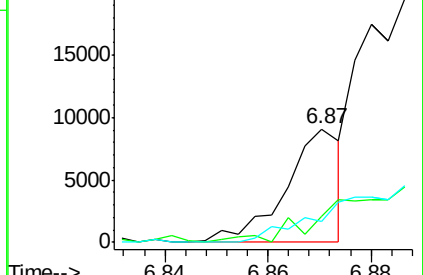
50 18.2 15.2 22.8



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 7.746 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.45 min

Lab File: VL034917.D

Acq: 17 Mar 2020 16:05

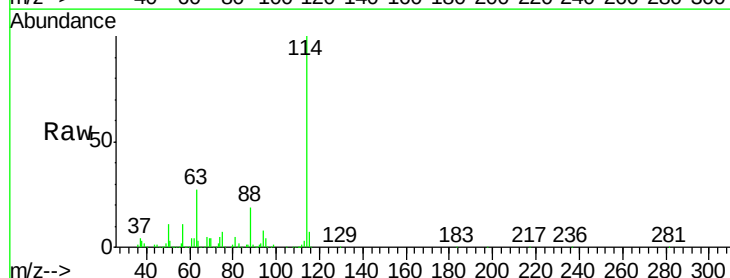
Tgt Ion: 63 Resp: 531195

Ion Ratio Lower Upper

63 100

41 0.0 59.8 89.8#

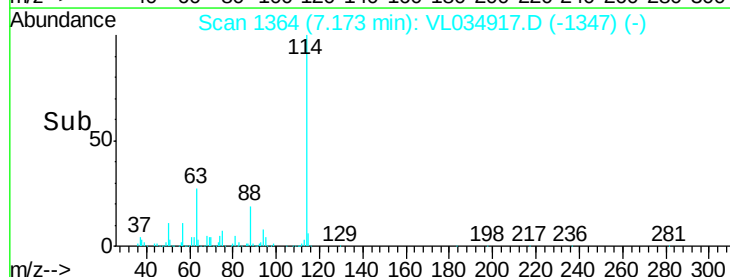
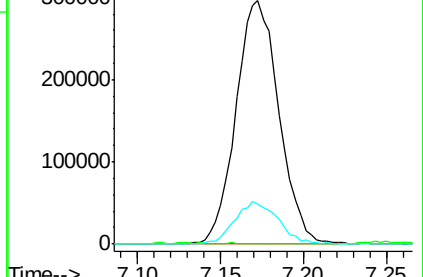
62 16.3 57.6 86.4#

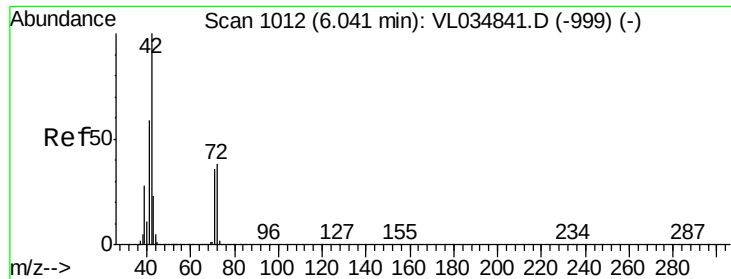


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

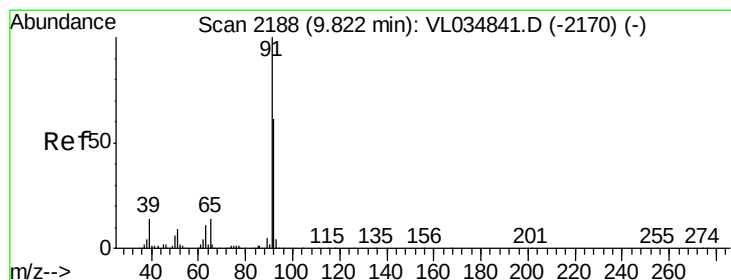
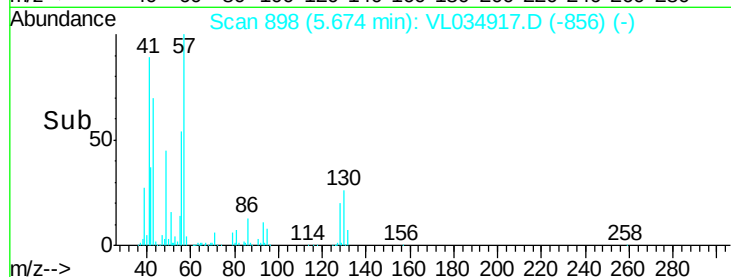
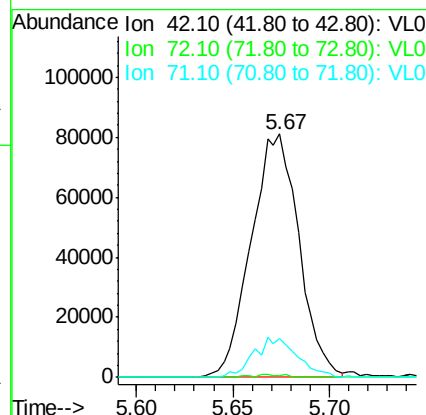
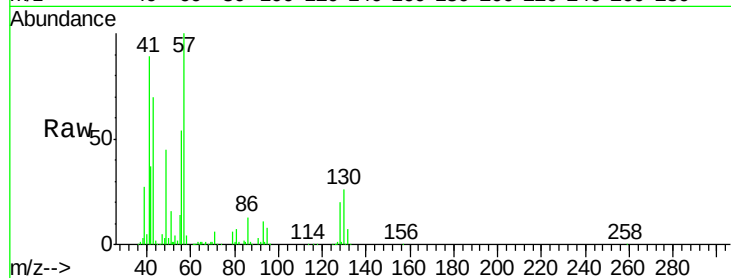




#41
Tetrahydrofuran
Concen: 1.998 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.37 min
Lab File: VL034917.D
Acq: 17 Mar 2020 16:05

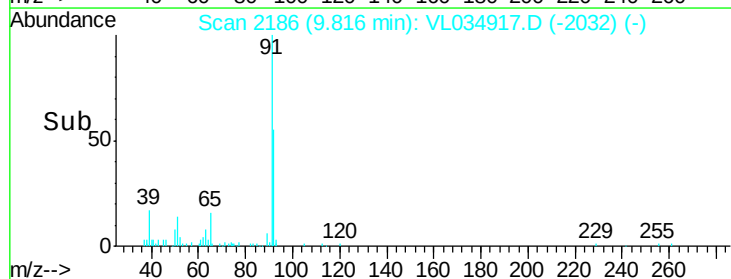
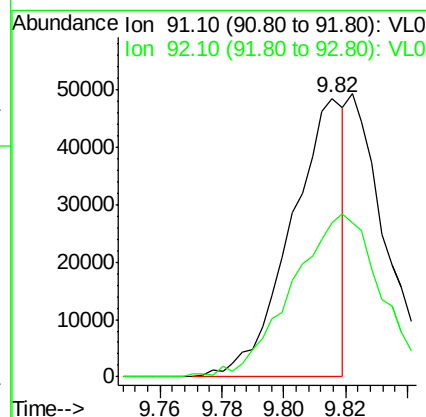
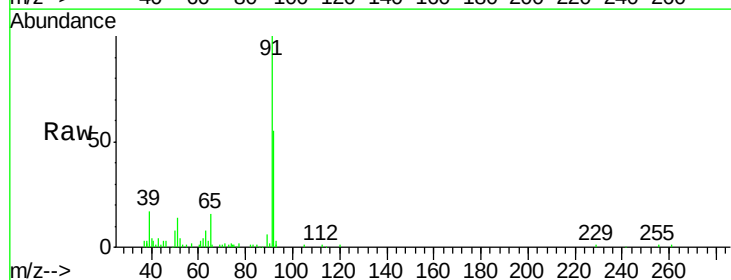
Instrument :
MSVOA_L
ClientSampleId :
AA-1

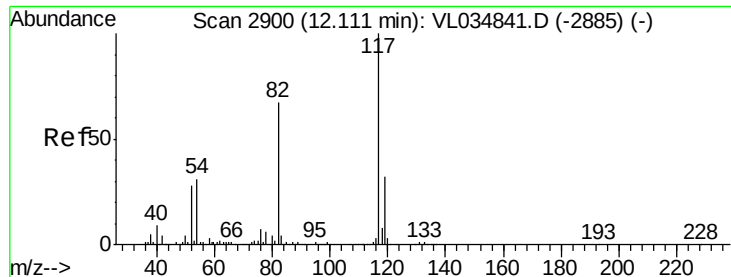
Tgt Ion: 42 Resp: 139539
Ion Ratio Lower Upper
42 100
72 0.9 30.8 46.2#
71 15.1 30.1 45.1#



#53
Toluene
Concen: 0.288 ppbv
RT: 9.82 min Scan# 2186
Delta R.T. -0.01 min
Lab File: VL034917.D
Acq: 17 Mar 2020 16:05

Tgt Ion: 91 Resp: 57524
Ion Ratio Lower Upper
91 100
92 0.0 48.6 72.8#

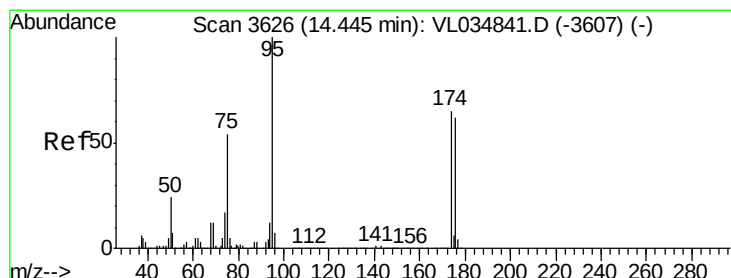
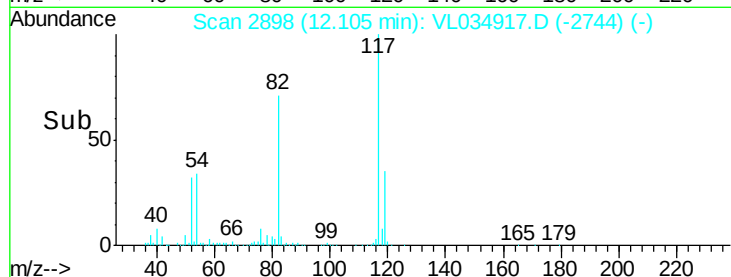
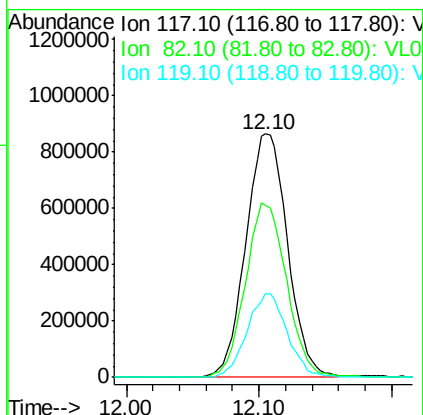
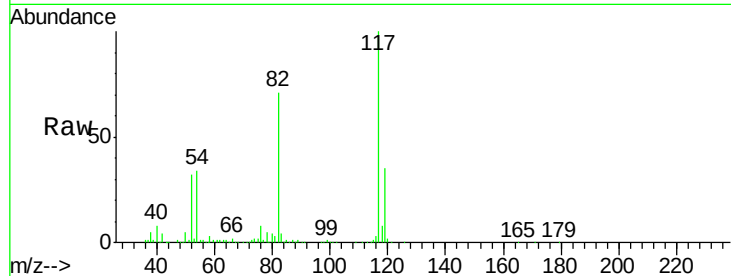




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL034917.D
Acq: 17 Mar 2020 16:05

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tgt Ion: 117 Resp: 1898033
Ion Ratio Lower Upper
117 100
82 71.1 51.1 76.7
119 33.3 27.3 40.9



#68
1-Bromo-4-Fluorobenzene
Concen: 11.088 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. -0.00 min
Lab File: VL034917.D
Acq: 17 Mar 2020 16:05

Tgt Ion: 95 Resp: 1641312
Ion Ratio Lower Upper
95 100
174 63.8 55.2 82.8
175 4.8 4.3 6.5

