

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120820\
 Data File : VL036118.D
 Acq On : 9 Dec 2020 6:06
 Operator : SY/AP
 Sample : L4948-13 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2BDL

Quant Time: Dec 09 07:25:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1127474	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.18	114	2359069	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2072240	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	1764093	10.72	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.20%

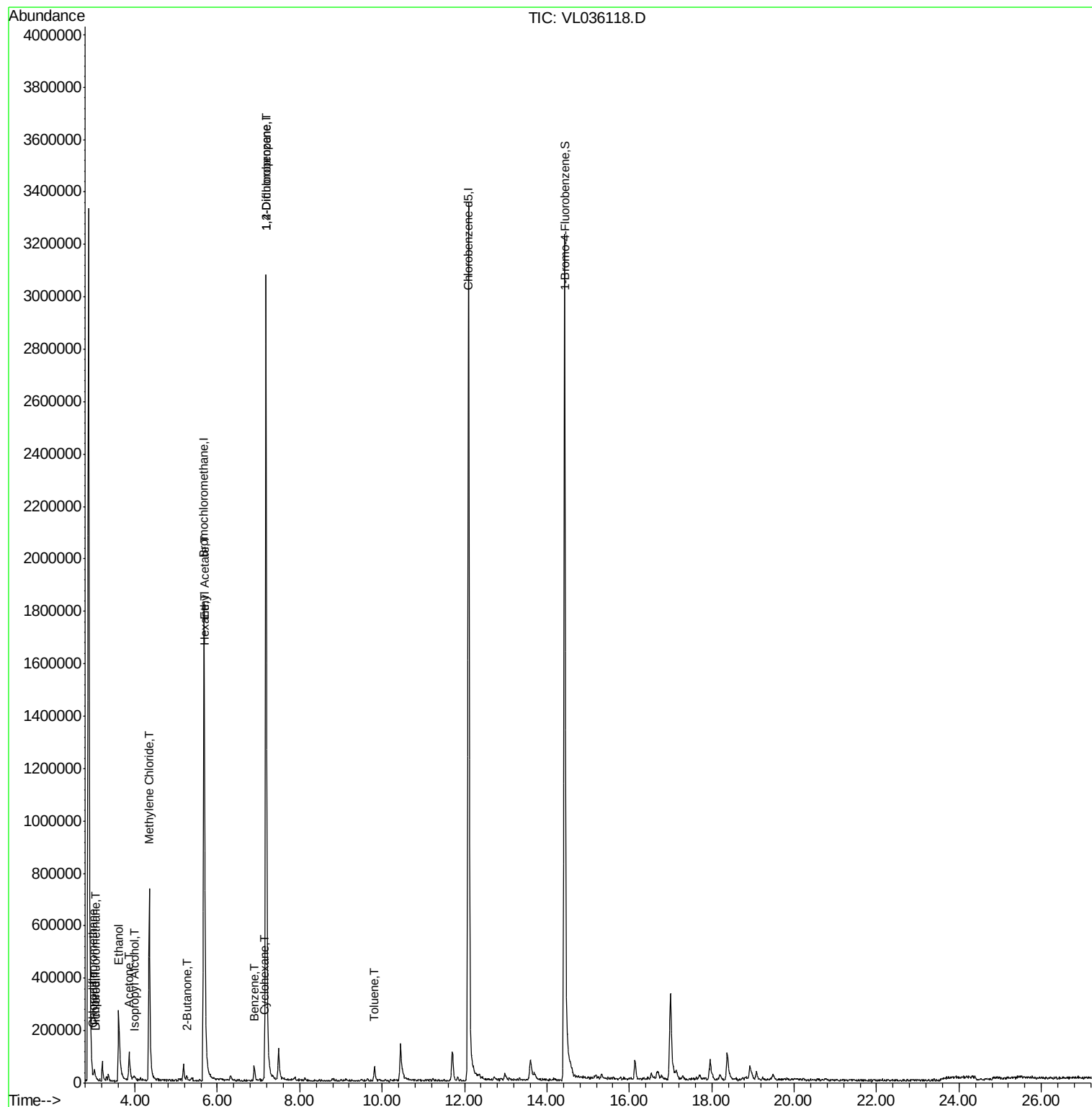
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	4488	0.034	ppbv #	72
3) Chlorodifluoromethane	2.98	51	10524	0.082	ppbv	94
9) Propene	3.01	41	5354	0.083	ppbv #	1
13) Ethanol	3.61	45	306661	34.520	ppbv	99
15) Acetone	3.86	43	122830	0.906	ppbv #	74
19) Isopropyl Alcohol	3.98	45	6180	0.075	ppbv #	100
20) Methylene Chloride	4.35	84	297181	5.352	ppbv	96
25) Ethyl Acetate	5.69	43	66480	0.246	ppbv #	80
26) Hexane	5.69	57	164481	1.350	ppbv #	40
30) Cyclohexane	7.14	84	2823	0.032	ppbv #	1
34) 2-Butanone	5.25	43	6923	0.044	ppbv #	56
36) Benzene	6.90	78	41990	0.210	ppbv	97
39) 1,2-Dichloropropane	7.18	63	707820	8.965	ppbv #	25
53) Toluene	9.82	91	34960	0.156	ppbv	93

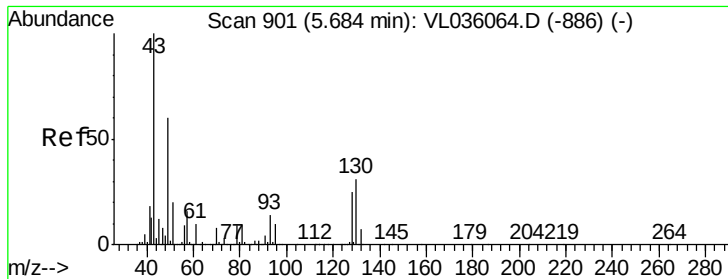
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL036118.D

Acq: 9 Dec 2020 6:06

Instrument :

MSVOA_L

ClientSampleId :

SS-2BDL

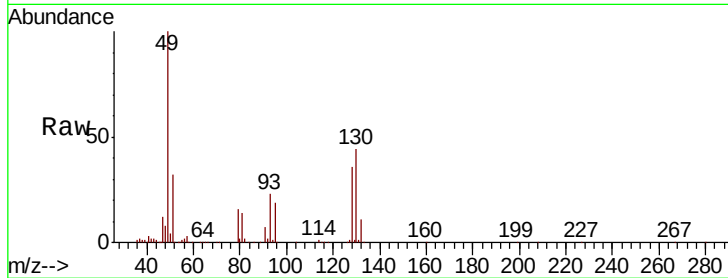
Tot Ion: 49 Resp: 1127474

Ion Ratio Lower Upper

49 100

128 37.1 21.1 63.1

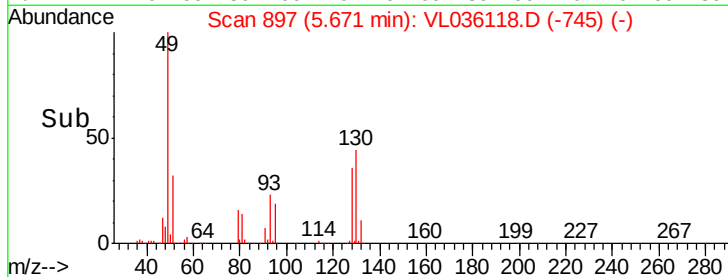
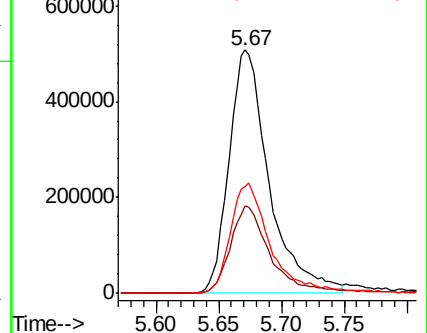
130 45.7 27.1 81.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.034 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL036118.D

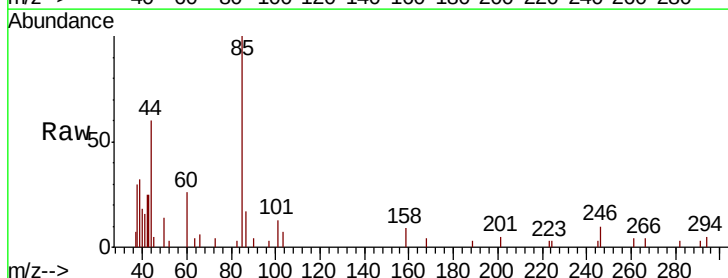
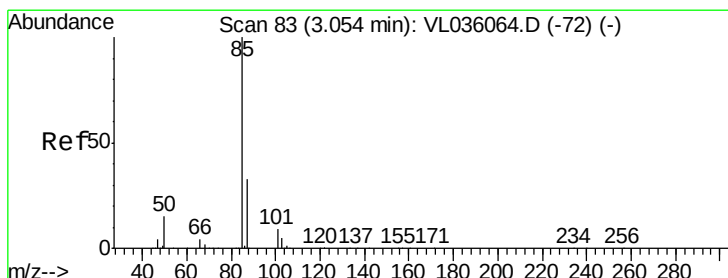
Acq: 9 Dec 2020 6:06

Tgt Ion: 85 Resp: 4488

Ion Ratio Lower Upper

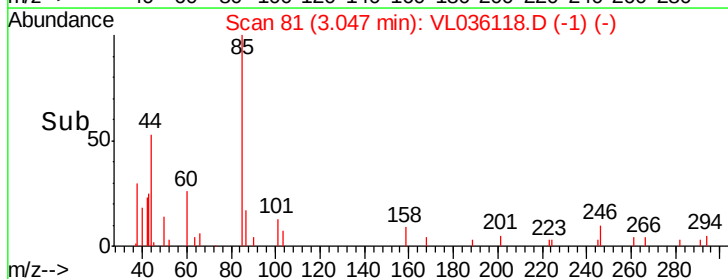
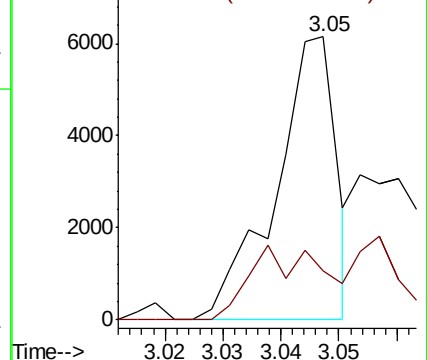
85 100

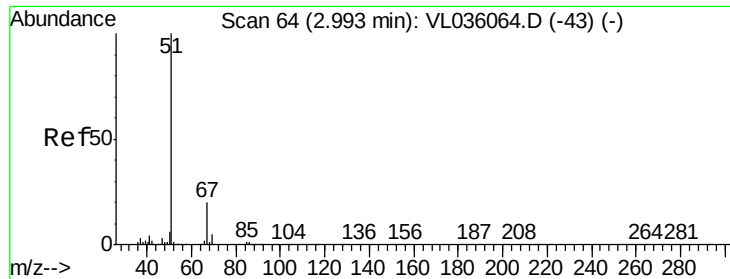
87 17.3 26.5 39.7#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

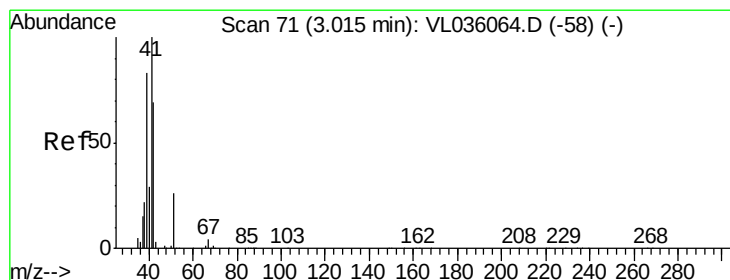
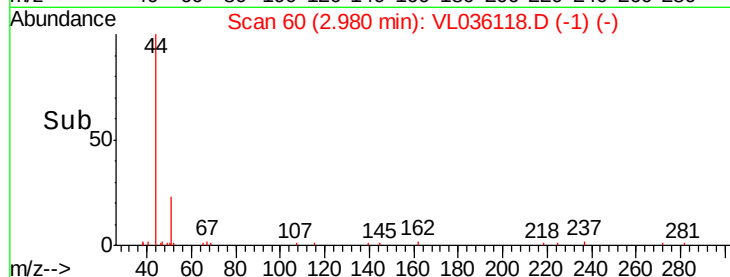
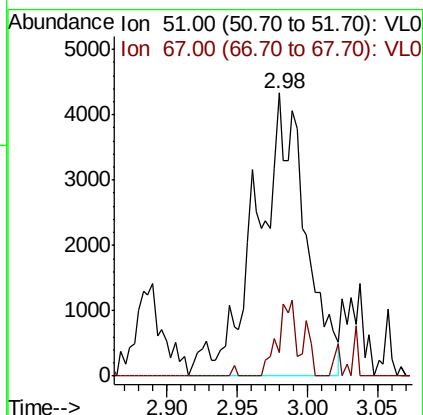
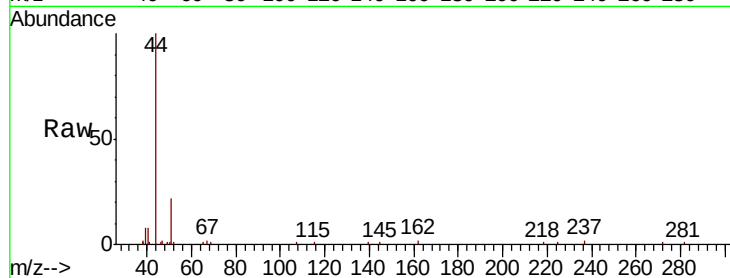




#3
Chlorodifluoromethane
Concen: 0.082 ppbv
RT: 2.98 min Scan# 60
Delta R.T. -0.01 min
Lab File: VL036118.D
Acq: 9 Dec 2020 6:06

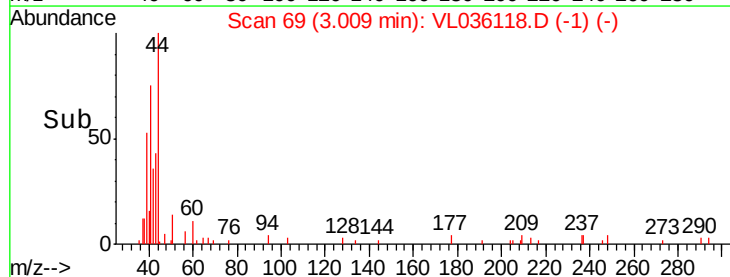
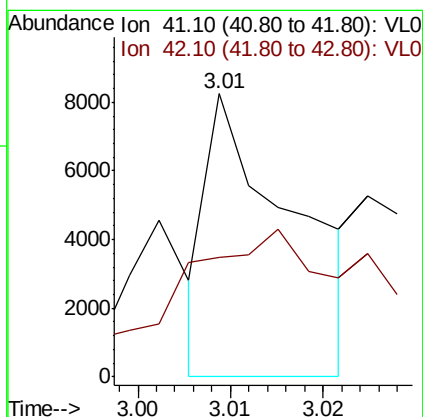
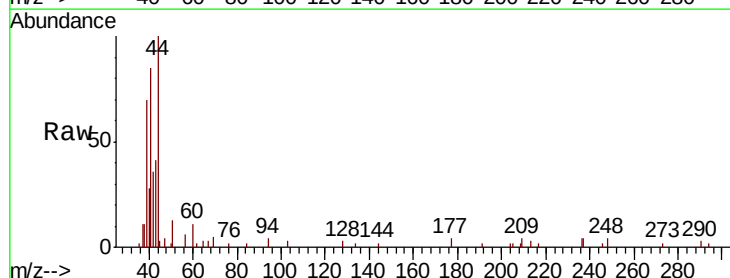
Instrument :
MSVOA_L
ClientSampled :
SS-2BDL

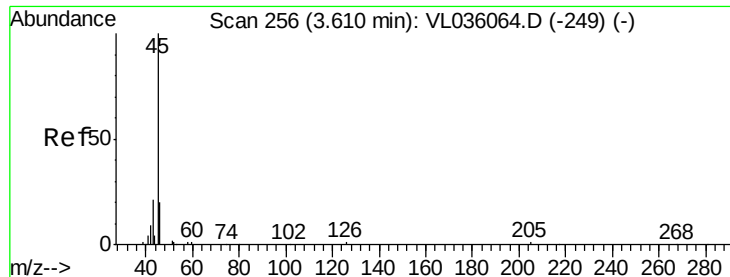
Tot Ion: 51 Resp: 10524
Ion Ratio Lower Upper
51 100
67 15.4 14.3 21.5



#9
Propene
Concen: 0.083 ppbv
RT: 3.01 min Scan# 69
Delta R.T. -0.01 min
Lab File: VL036118.D
Acq: 9 Dec 2020 6:06

Tgt Ion: 41 Resp: 5354
Ion Ratio Lower Upper
41 100
42 155.4 57.0 85.6#





#13

Ethanol

Concen: 34.520 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL036118.D

Acq: 9 Dec 2020 6:06

Instrument :

MSVOA_L

ClientSampleId :

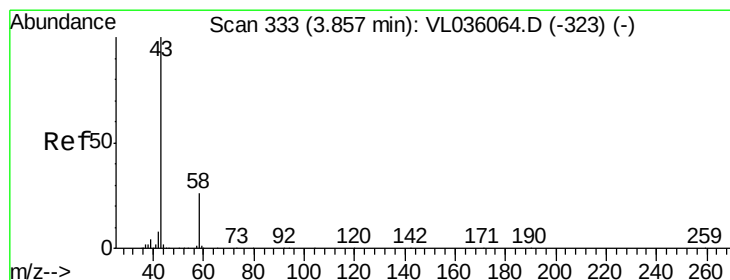
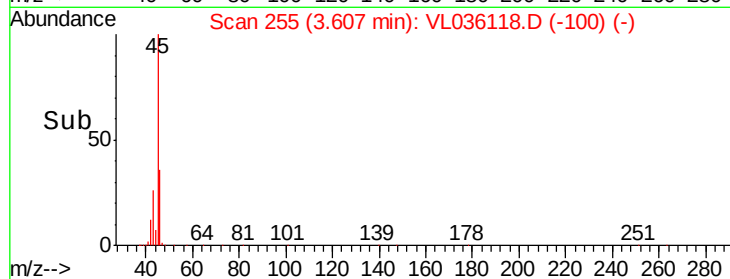
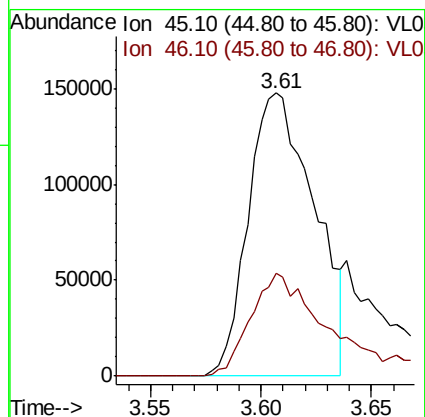
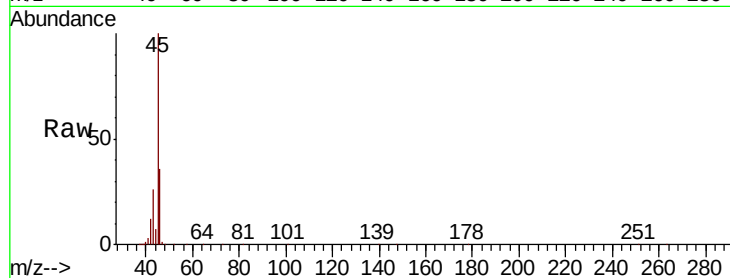
SS-2BDL

Tot Ion: 45 Resp: 306661

Ion Ratio Lower Upper

45 100

46 47.7 19.0 75.8



#15

Acetone

Concen: 0.906 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL036118.D

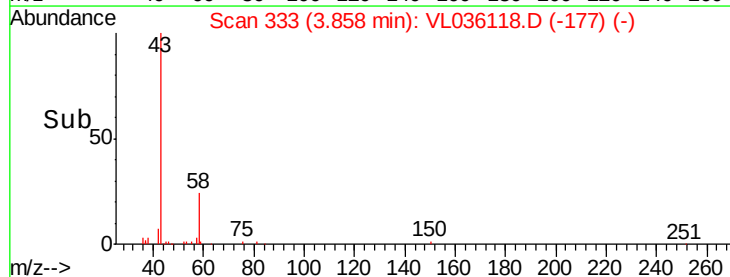
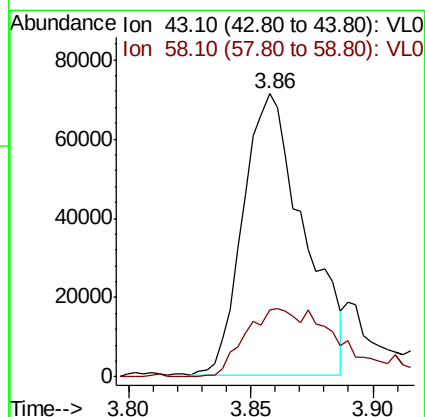
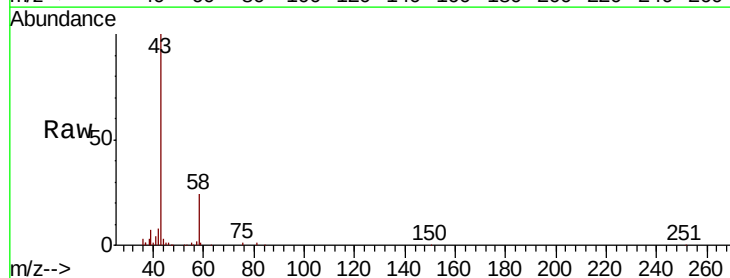
Acq: 9 Dec 2020 6:06

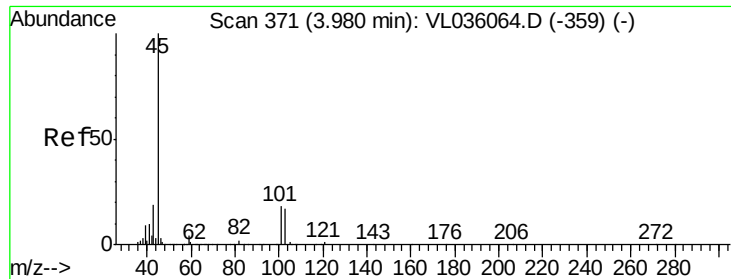
Tgt Ion: 43 Resp: 122830

Ion Ratio Lower Upper

43 100

58 39.4 20.9 31.3#





#19

Isopropyl Alcohol

Concen: 0.075 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.00 min

Lab File: VL036118.D

Acq: 9 Dec 2020 6:06

Instrument :

MSVOA_L

ClientSampleId :

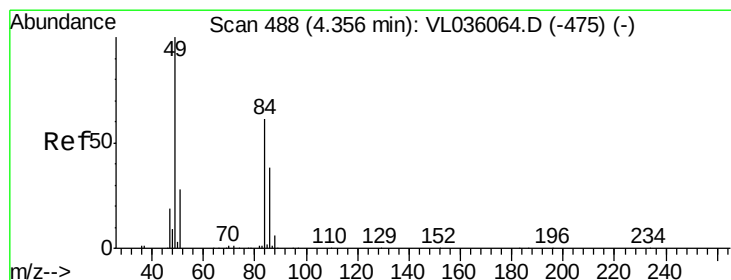
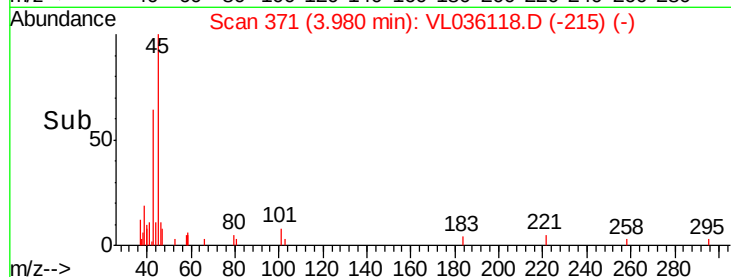
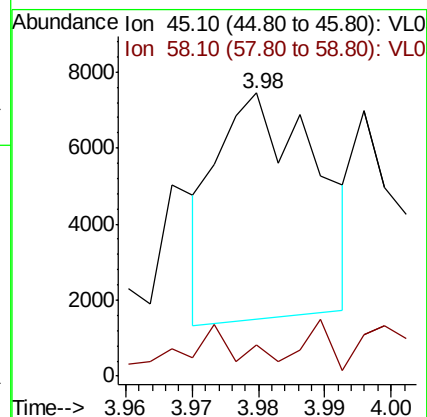
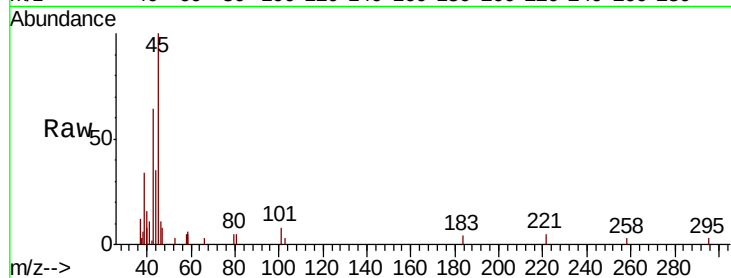
SS-2BDL

Tot Ion: 45 Resp: 6180

Ion Ratio Lower Upper

45 100

58 806.9 0.0 0.0#



#20

Methylene Chloride

Concen: 5.352 ppbv

RT: 4.35 min Scan# 486

Delta R.T. -0.01 min

Lab File: VL036118.D

Acq: 9 Dec 2020 6:06

Tgt Ion: 84 Resp: 297181

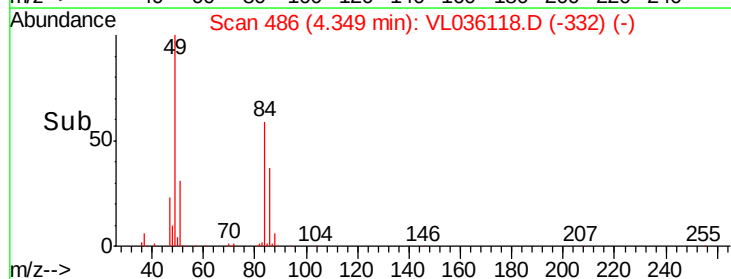
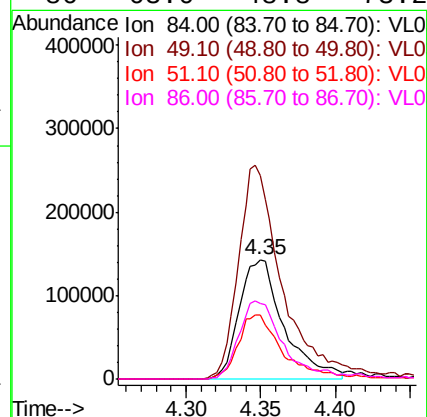
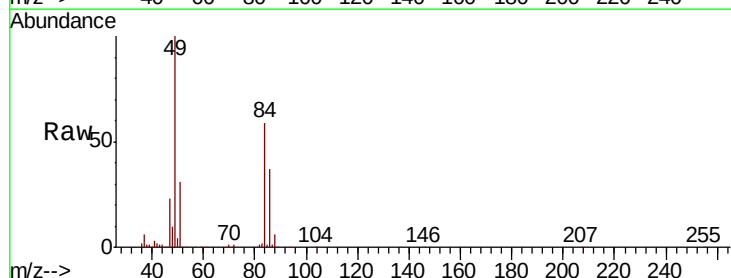
Ion Ratio Lower Upper

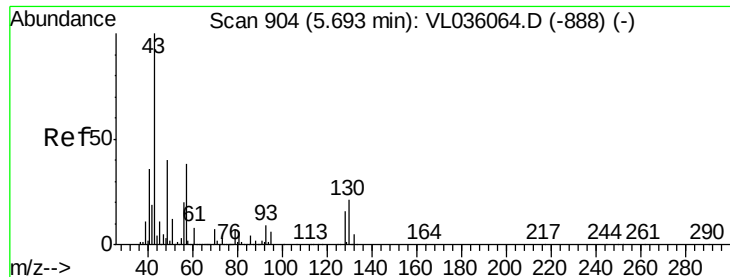
84 100

49 170.5 133.0 199.4

51 53.6 38.9 58.3

86 63.0 48.8 73.2





#25

Ethyl Acetate

Concen: 0.246 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.00 min

Lab File: VL036118.D

Acq: 9 Dec 2020 6:06

Instrument :

MSVOA_L

ClientSampled :

SS-2BDL

Tot Ion: 43 Resp: 66480

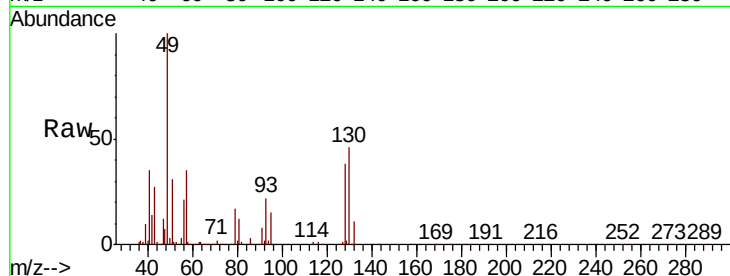
Ion Ratio Lower Upper

43 100

45 1.2 8.2 12.4#

61 0.8 7.4 11.2#

70 3.5 5.4 8.0#

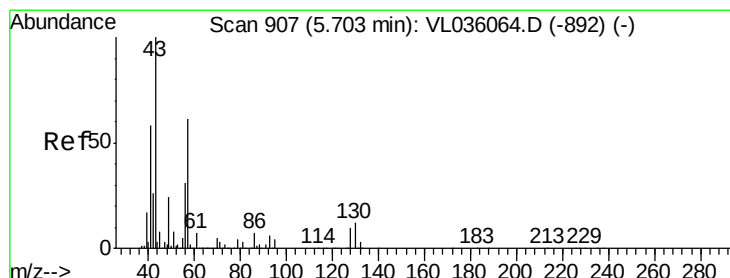
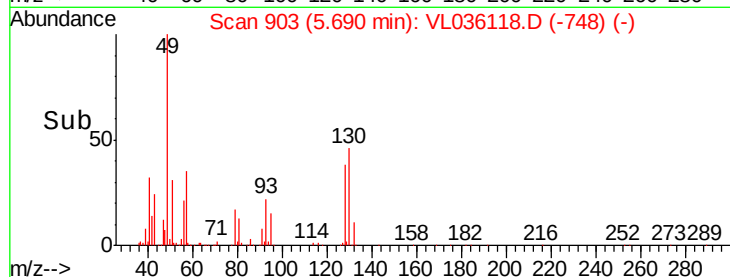
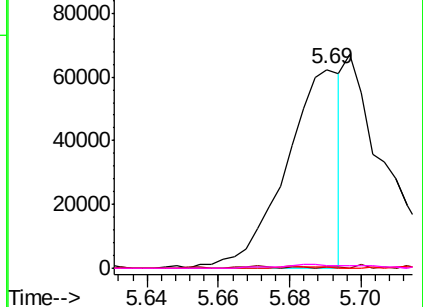


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.350 ppbv

RT: 5.69 min Scan# 904

Delta R.T. -0.01 min

Lab File: VL036118.D

Acq: 9 Dec 2020 6:06

Tgt Ion: 57 Resp: 164481

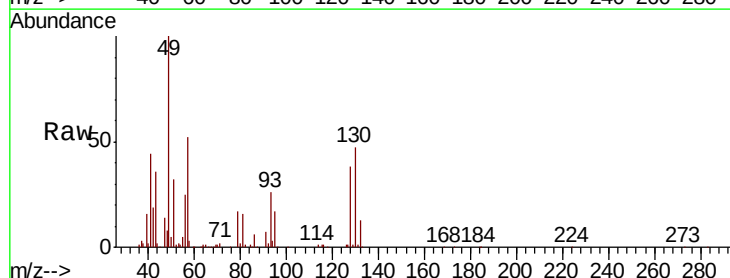
Ion Ratio Lower Upper

57 100

41 103.1 82.9 124.3

43 79.7 199.9 299.9#

56 56.0 43.1 64.7

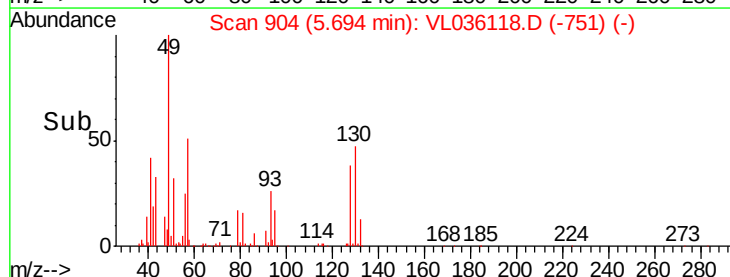
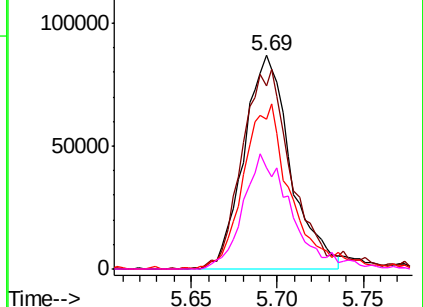


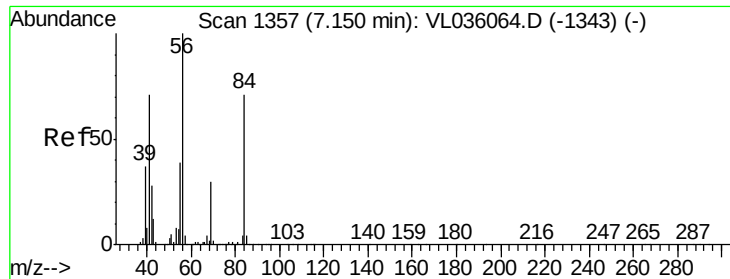
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

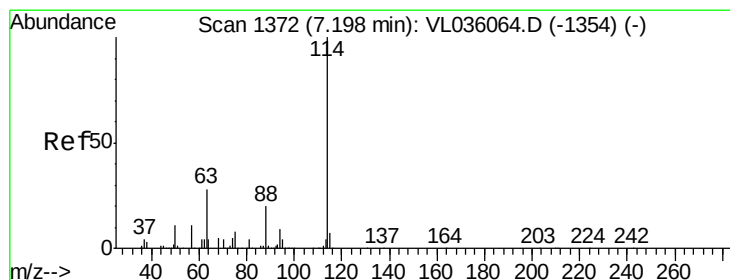
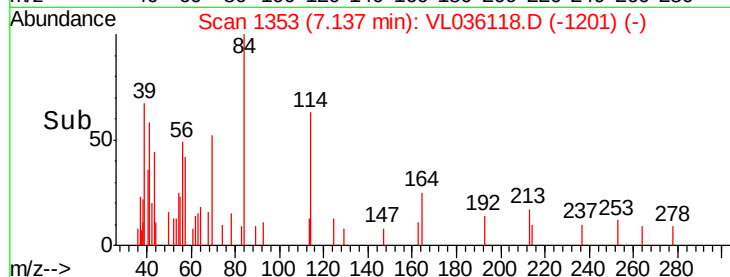
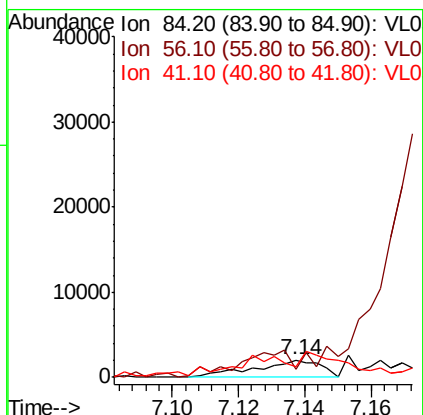
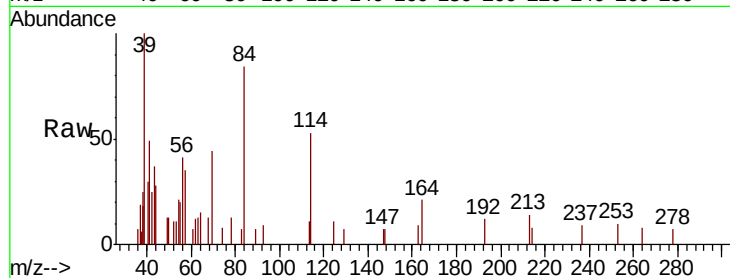




#30
Cyclohexane
Concen: 0.032 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL036118.D
Acq: 9 Dec 2020 6:06

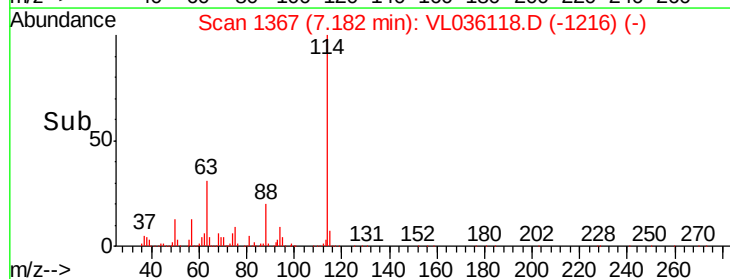
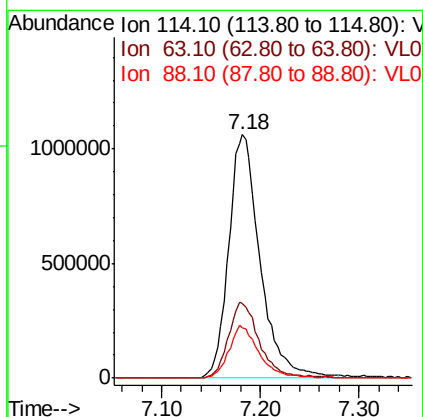
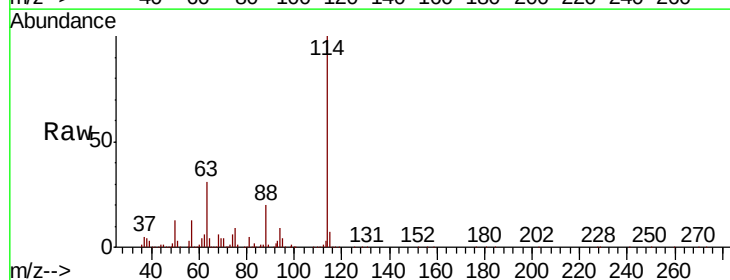
Instrument :
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SS-2BDL

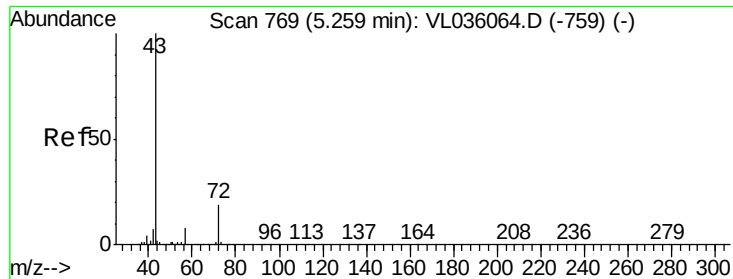
Tot Ion	84	Resp	2823
Ion Ratio	Lower	Upper	
84	100		
56	0.0	128.0	192.0#
41	185.5	81.3	121.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. -0.02 min
Lab File: VL036118.D
Acq: 9 Dec 2020 6:06

Tgt Ion	114	Resp	2359069
Ion Ratio	Lower	Upper	
114	100		
63	31.3	23.6	35.4
88	20.8	15.8	23.6

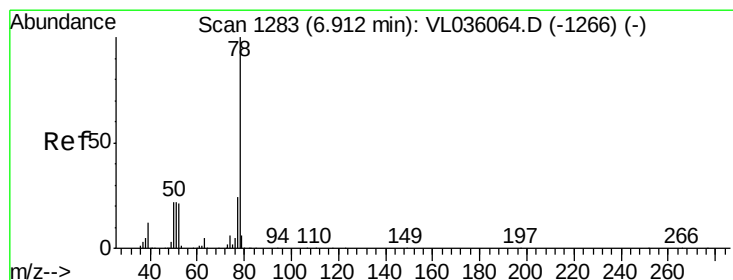
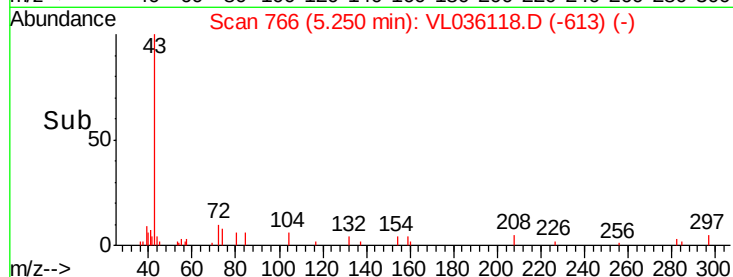
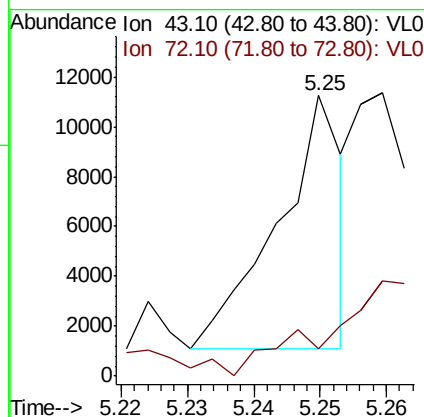
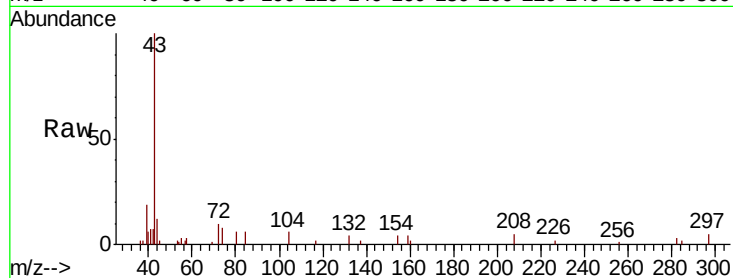




#34
2-Butanone
Concen: 0.044 ppbv
RT: 5.25 min Scan# 766
Delta R.T. -0.01 min
Lab File: VL036118.D
Acq: 9 Dec 2020 6:06

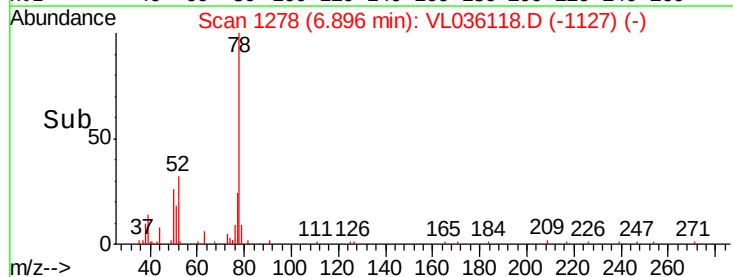
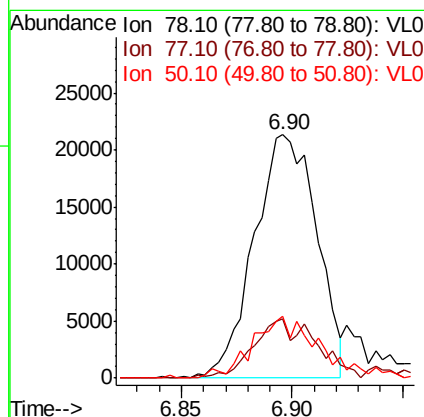
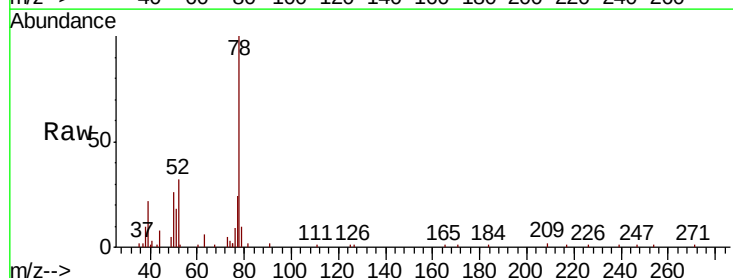
Instrument :
MSVOA_L
ClientSampleId :
SS-2BDL

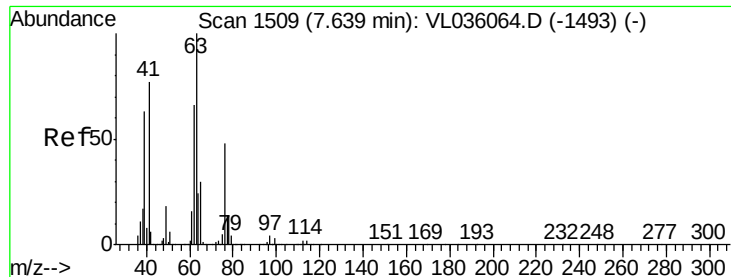
Tot Ion: 43 Resp: 6923
Ion Ratio Lower Upper
43 100
72 0.0 16.5 24.7#



#36
Benzene
Concen: 0.210 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. -0.02 min
Lab File: VL036118.D
Acq: 9 Dec 2020 6:06

Tgt Ion: 78 Resp: 41990
Ion Ratio Lower Upper
78 100
77 24.3 19.4 29.2
50 25.6 17.8 26.8





#39

1,2-Dichloropropane

Concen: 8.965 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.46 min

Lab File: VL036118.D

Acq: 9 Dec 2020 6:06

Instrument :

MSVOA_L

ClientSampleId :

SS-2BDL

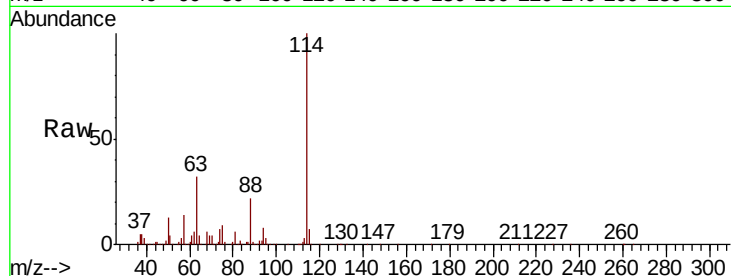
Tot Ion: 63 Resp: 707820

Ion Ratio Lower Upper

63 100

41 0.0 61.9 92.9#

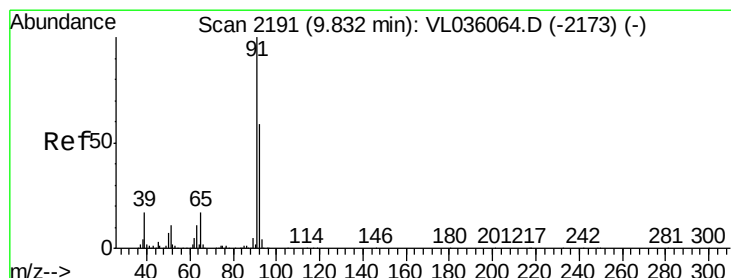
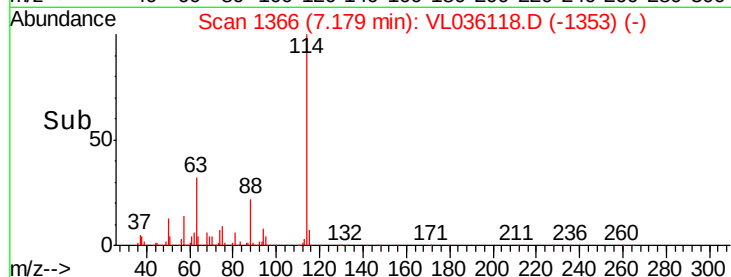
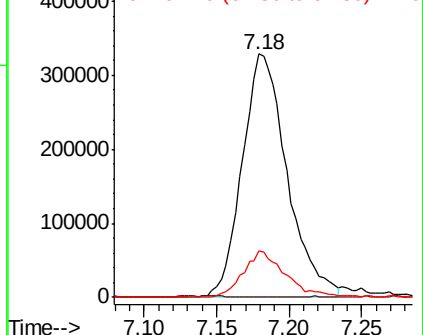
62 18.9 52.5 78.7#



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: 0.156 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.02 min

Lab File: VL036118.D

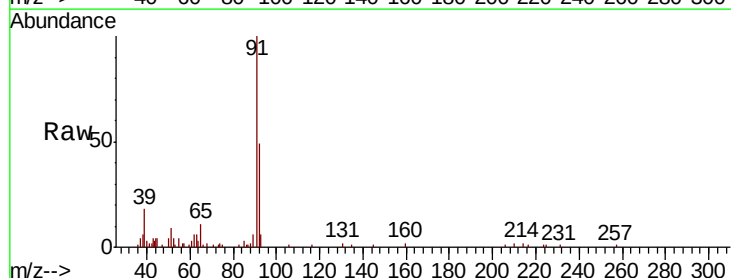
Acq: 9 Dec 2020 6:06

Tgt Ion: 91 Resp: 34960

Ion Ratio Lower Upper

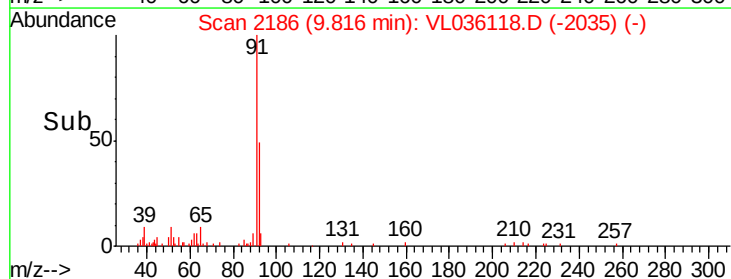
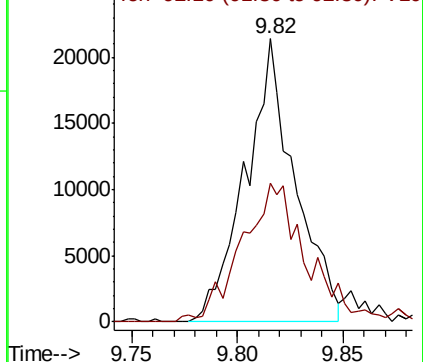
91 100

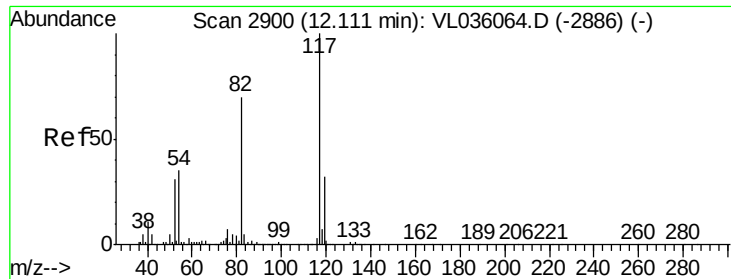
92 65.6 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

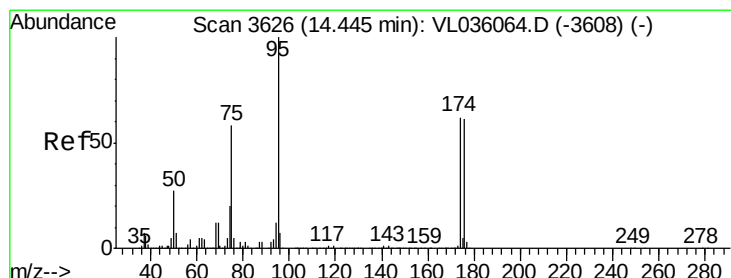
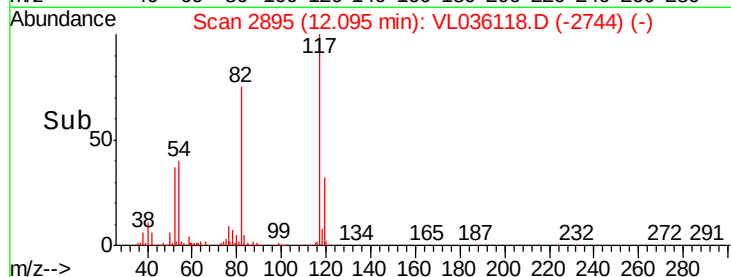
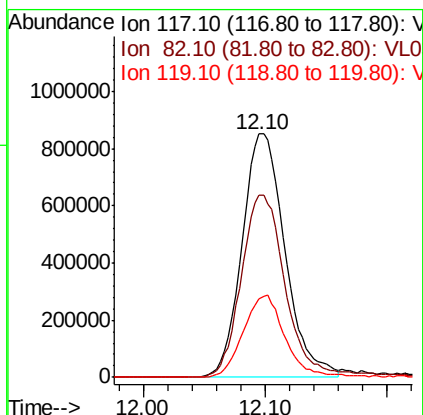
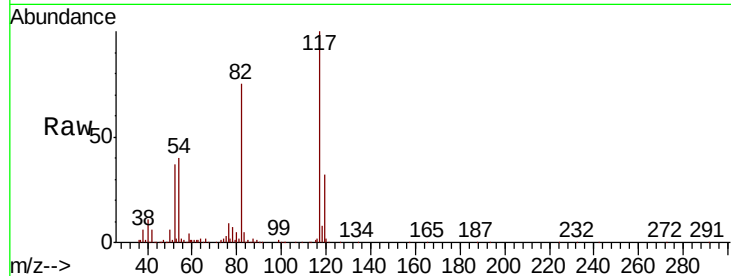




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. -0.02 min
Lab File: VL036118.D
Acq: 9 Dec 2020 6:06

Instrument :
MSVOA_L
ClientSampleId :
SS-2BDL

Tot Ion:117 Resp: 2072240
Ion Ratio Lower Upper
117 100
82 78.2 0.0 0.0#
119 33.4 0.0 0.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.721 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. -0.02 min
Lab File: VL036118.D
Acq: 9 Dec 2020 6:06

Tgt Ion: 95 Resp: 1764093
Ion Ratio Lower Upper
95 100
174 56.2 50.7 76.1
175 4.1 4.0 6.0

