

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022421\
 Data File : VL036371.D
 Acq On : 25 Feb 2021 4:48
 Operator : SY/AP
 Sample : M1463-11DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

Quant Time: Feb 25 07:56:58 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1587171	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	3512028	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3203038	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2639833	10.02	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

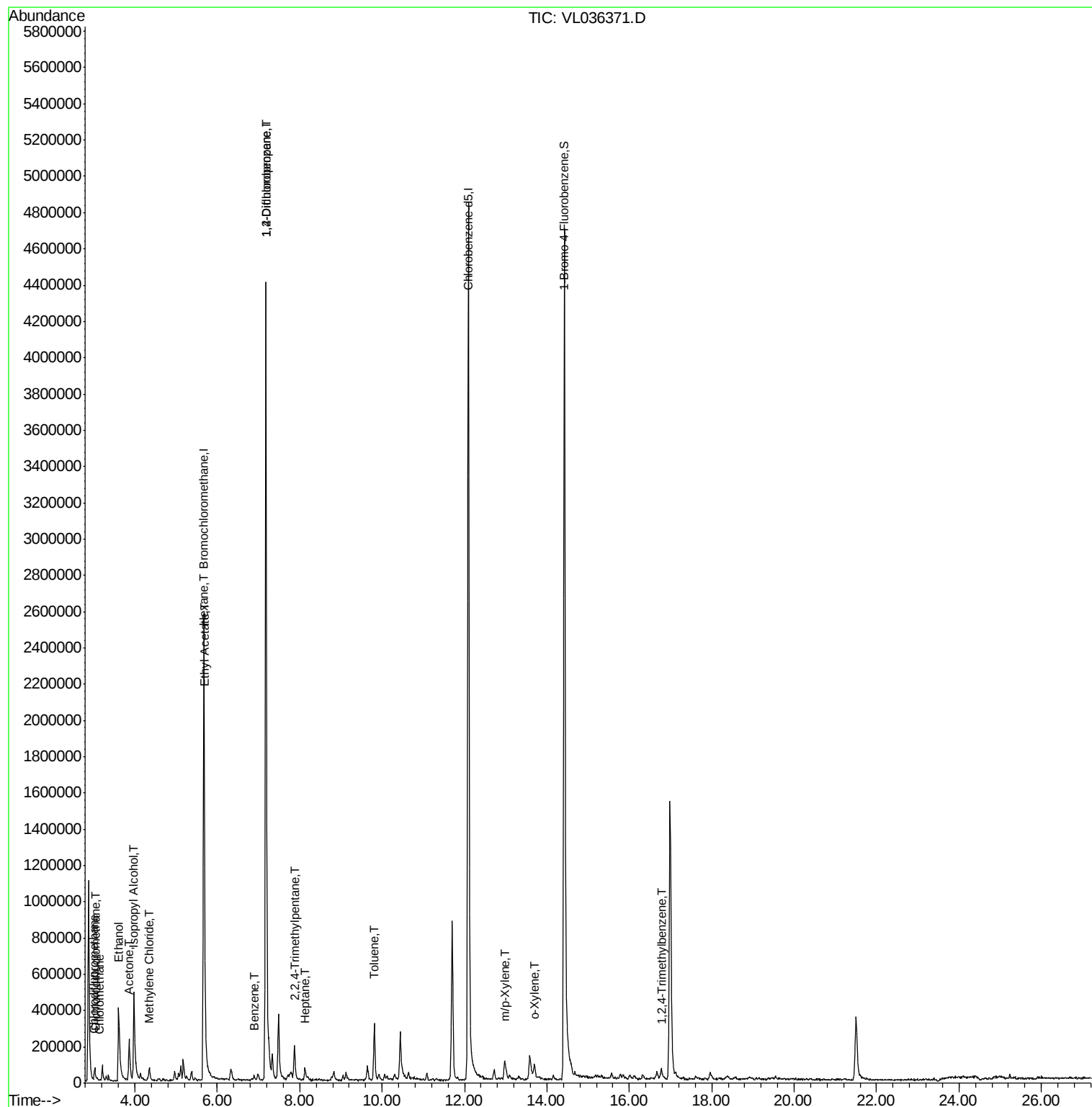
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	10172	0.043	ppbv #	72
3) Chlorodifluoromethane	2.99	51	10865	0.055	ppbv #	90
4) Chloromethane	3.15	50	4360	0.046	ppbv #	56
10) Heptane	8.13	43	16132	0.074	ppbv #	58
13) Ethanol	3.61	45	549514	39.790	ppbv	97
15) Acetone	3.85	43	300971	1.551	ppbv #	89
19) Isopropyl Alcohol	3.97	45	636236	5.919	ppbv	100
20) Methylene Chloride	4.34	84	10649	0.170	ppbv	96
25) Ethyl Acetate	5.69	43	30948	0.083	ppbv	98
26) Hexane	5.69	57	16183	0.105	ppbv #	61
36) Benzene	6.89	78	10234	0.034	ppbv #	64
39) 1,2-Dichloropropane	7.18	63	996040	8.219	ppbv #	24
44) 2,2,4-Trimethylpentane	7.87	57	96004	0.177	ppbv #	42
53) Toluene	9.81	91	204274	0.632	ppbv	99
59) m/p-Xylene	13.00	91	14167	0.037	ppbv #	33
60) o-Xylene	13.70	91	35289	0.096	ppbv	78
74) 1,2,4-Trimethylbenzene	16.78	105	21923	0.054	ppbv #	65

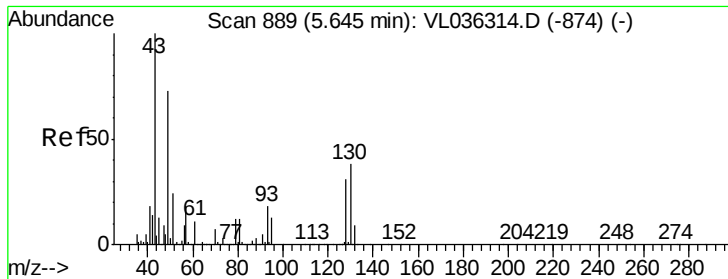
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
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QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.02 min

Lab File: VL036371.D

Acq: 25 Feb 2021 4:48

Instrument :

MSVOA_L

ClientSampled :

BFB

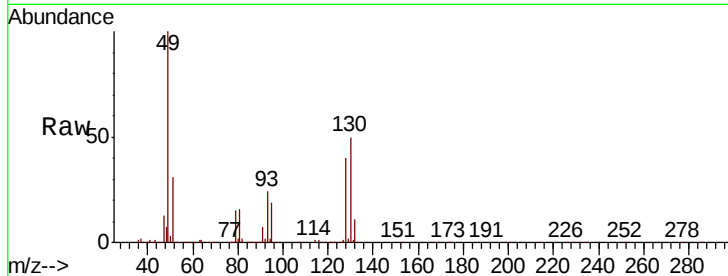
Tot Ion: 49 Resp: 1587171

Ion Ratio Lower Upper

49 100

128 42.5 20.8 62.5

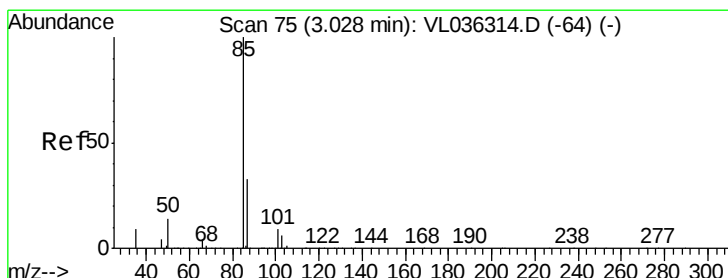
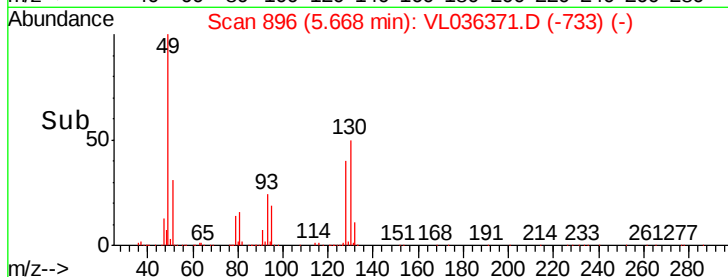
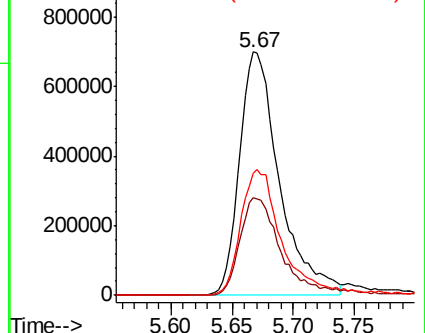
130 53.7 26.7 80.1



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: 0.043 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.02 min

Lab File: VL036371.D

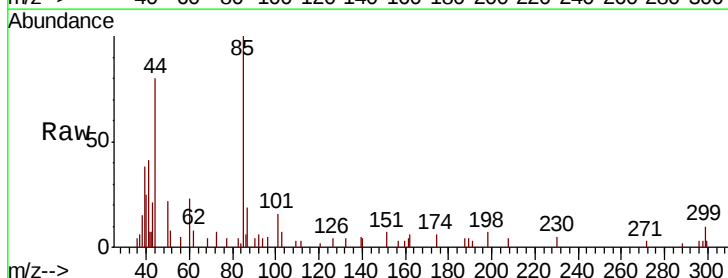
Acq: 25 Feb 2021 4:48

Tgt Ion: 85 Resp: 10172

Ion Ratio Lower Upper

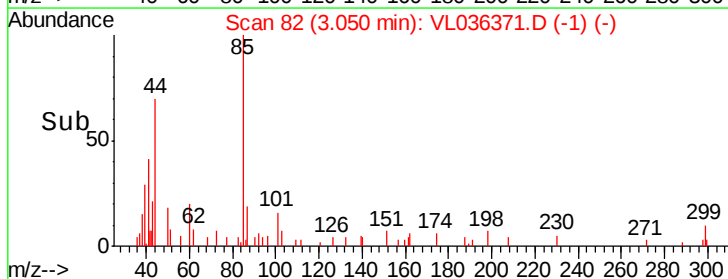
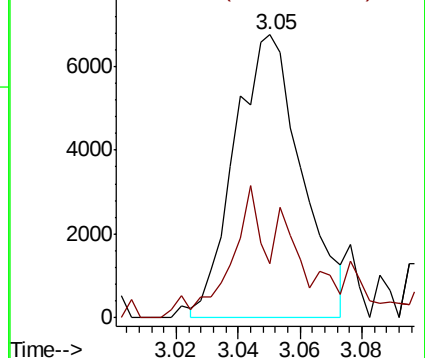
85 100

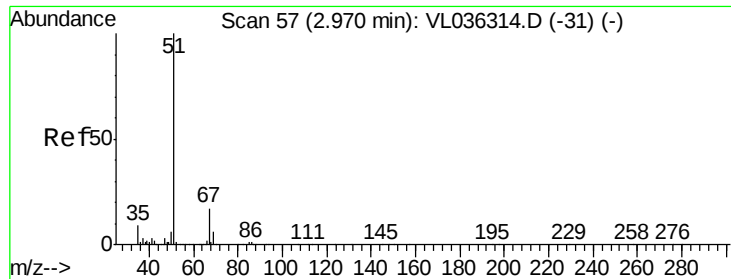
87 17.1 26.5 39.7#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

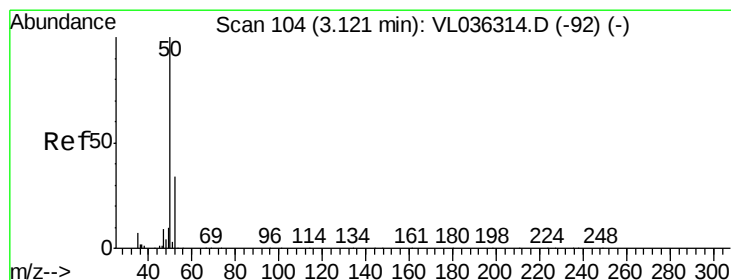
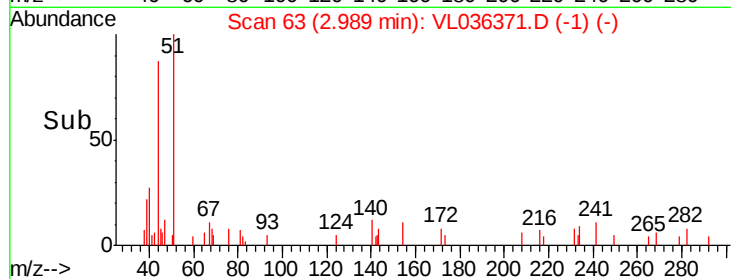
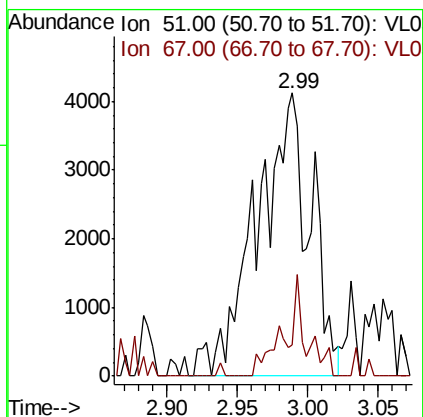
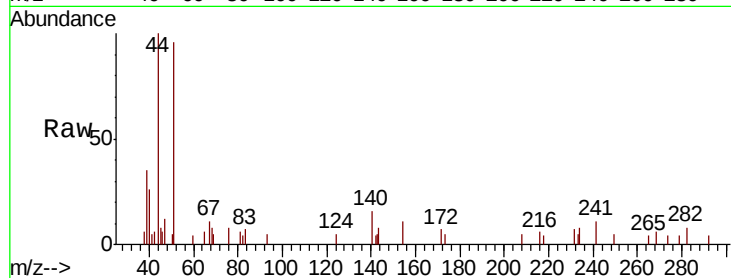




#3
Chlorodifluoromethane
Concen: 0.055 ppbv
RT: 2.99 min Scan# 63
Delta R.T. 0.02 min
Lab File: VL036371.D
Acq: 25 Feb 2021 4:48

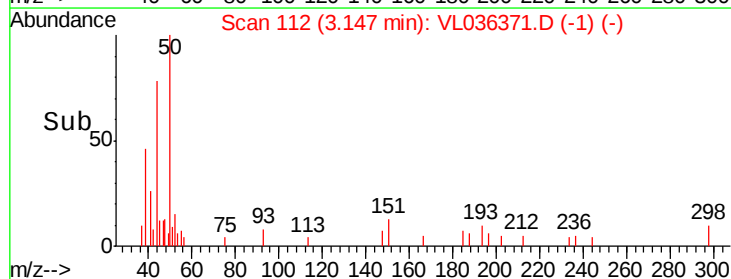
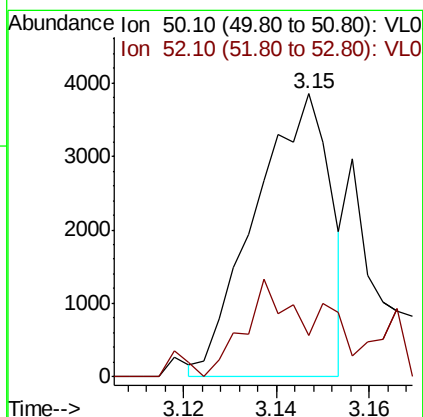
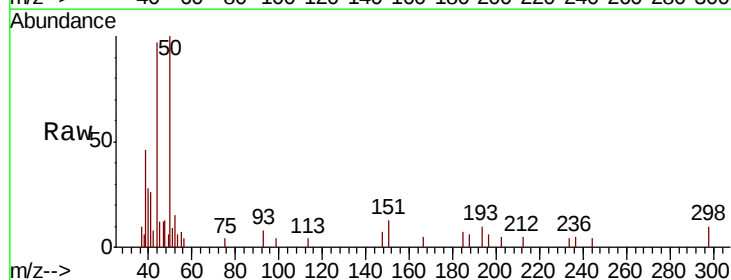
Instrument :
MSVOA_L
ClientSampleId :
BFB

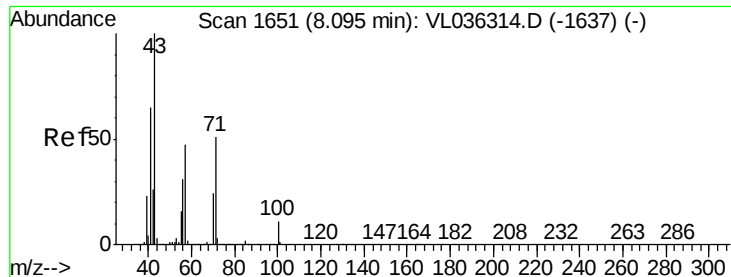
Tot Ion: 51 Resp: 10865
Ion Ratio Lower Upper
51 100
67 14.1 14.7 22.1#



#4
Chloromethane
Concen: 0.046 ppbv
RT: 3.15 min Scan# 112
Delta R.T. 0.03 min
Lab File: VL036371.D
Acq: 25 Feb 2021 4:48

Tgt Ion: 50 Resp: 4360
Ion Ratio Lower Upper
50 100
52 8.8 27.0 40.4#

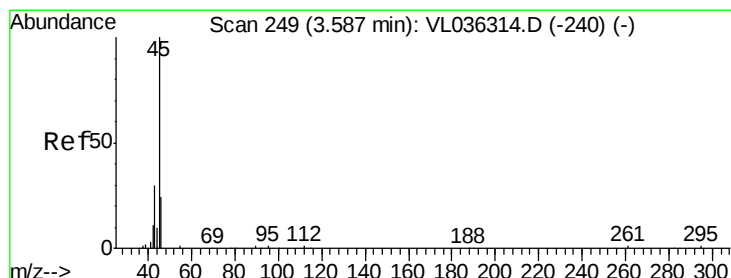
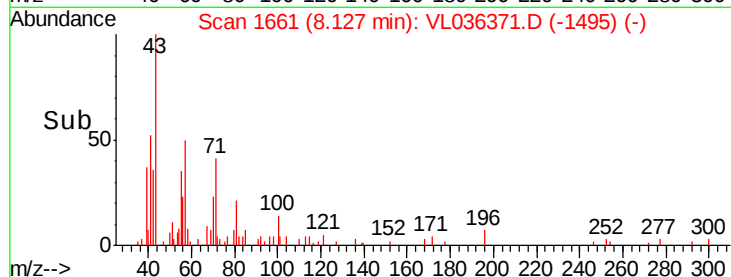
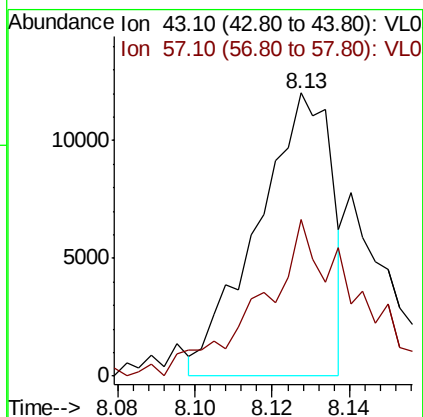
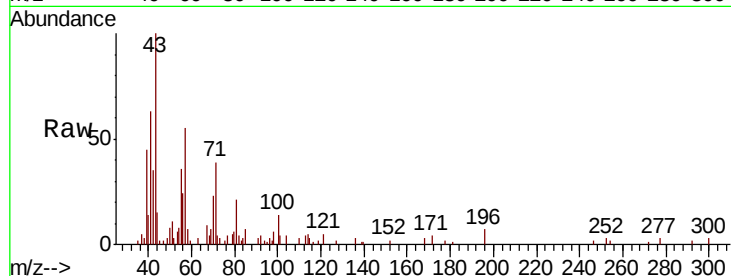




#10
Heptane
Concen: 0.074 ppbv
RT: 8.13 min Scan# 1661
Delta R.T. 0.03 min
Lab File: VL036371.D
Acq: 25 Feb 2021 4:48

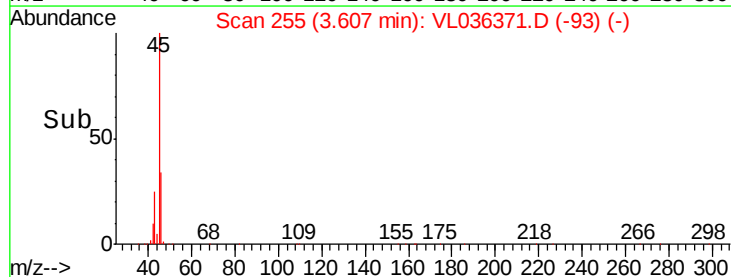
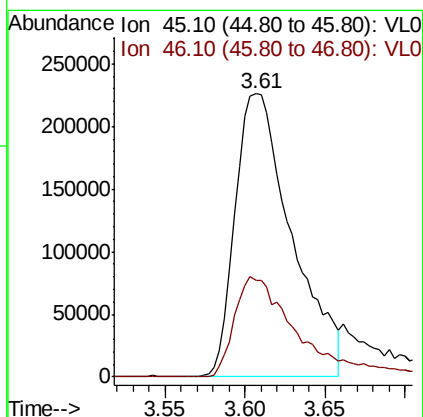
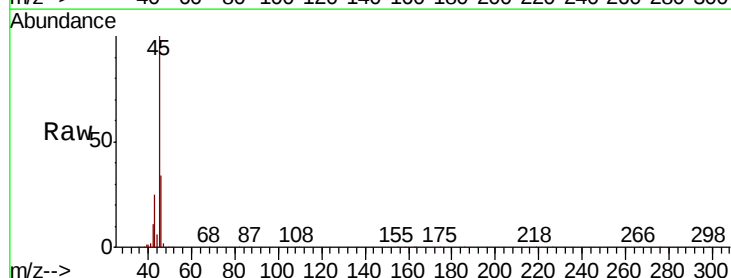
Instrument :
MSVOA_L
ClientSampleId :
BFB

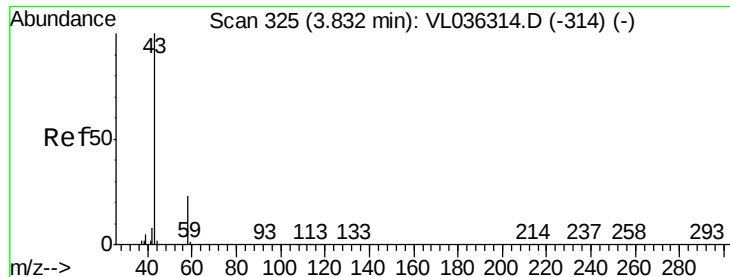
Tot Ion: 43 Resp: 16132
Ion Ratio Lower Upper
43 100
57 78.4 39.4 59.2#



#13
Ethanol
Concen: 39.790 ppbv
RT: 3.61 min Scan# 255
Delta R.T. 0.02 min
Lab File: VL036371.D
Acq: 25 Feb 2021 4:48

Tgt Ion: 45 Resp: 549514
Ion Ratio Lower Upper
45 100
46 42.5 17.7 70.7

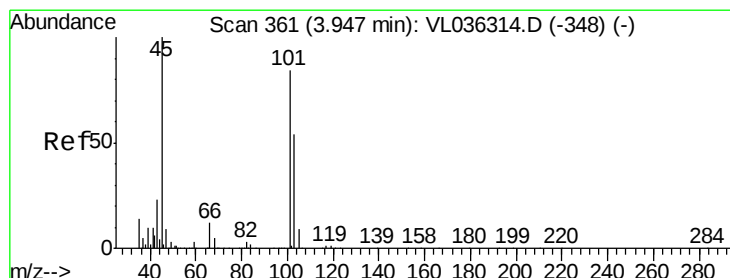
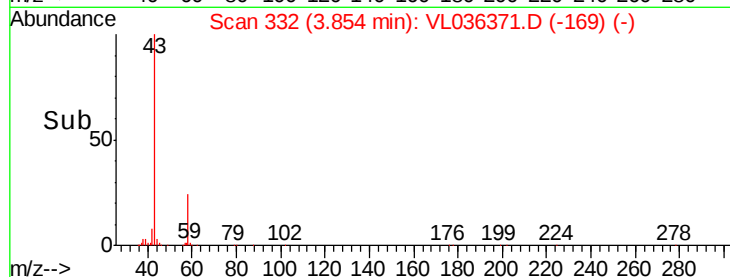
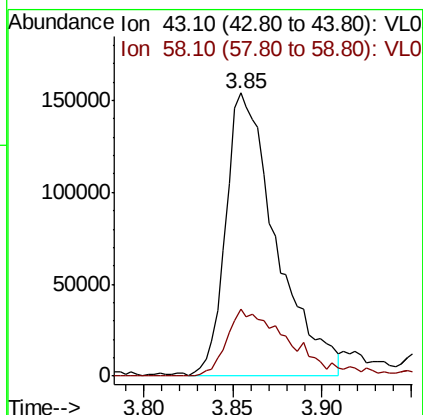
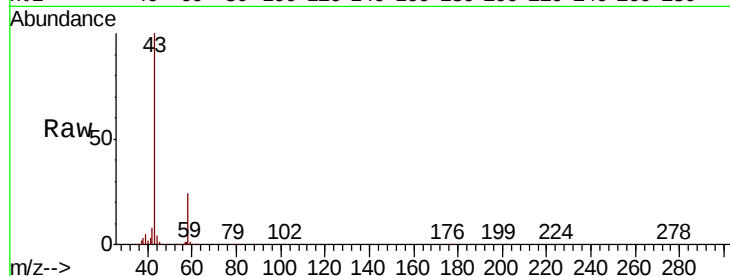




#15
Acetone
Concen: 1.551 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.02 min
Lab File: VL036371.D
Acq: 25 Feb 2021 4:48

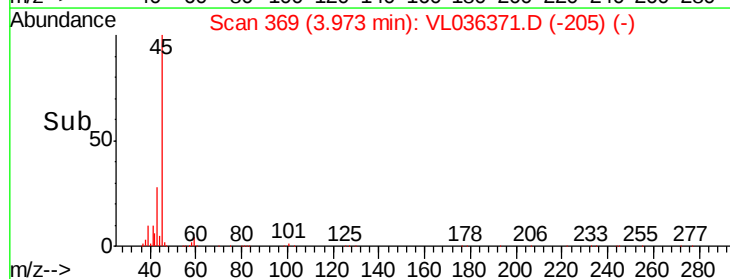
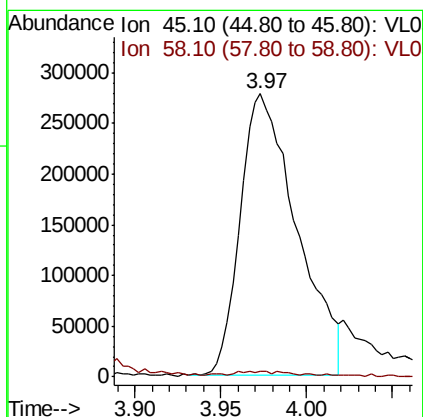
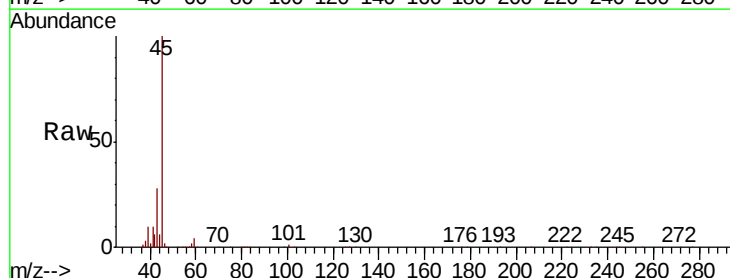
Instrument :
MSVOA_L
ClientSampleId :
BFB

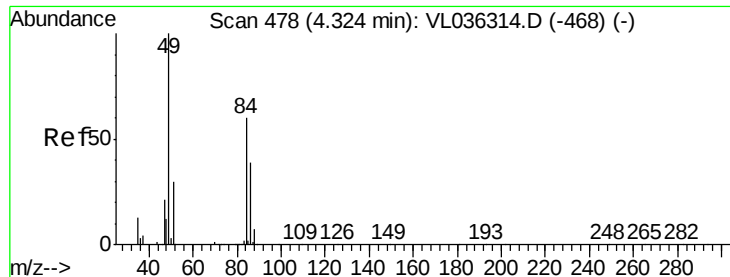
Tot Ion: 43 Resp: 300971
Ion Ratio Lower Upper
43 100
58 31.0 20.3 30.5#



#19
Isopropyl Alcohol
Concen: 5.919 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.03 min
Lab File: VL036371.D
Acq: 25 Feb 2021 4:48

Tgt Ion: 45 Resp: 636236
Ion Ratio Lower Upper
45 100
58 2.5 1.9 2.9

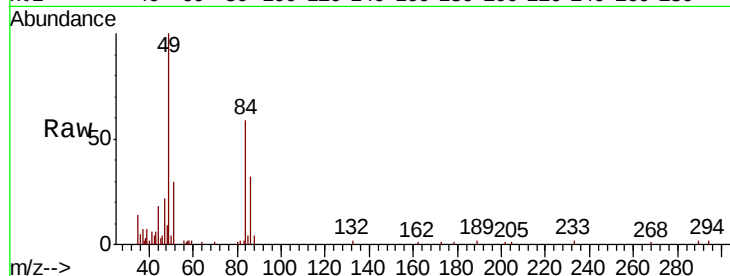




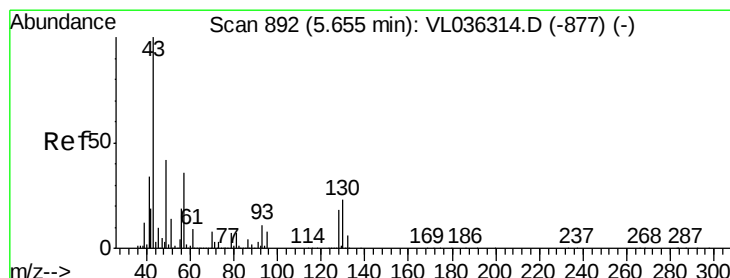
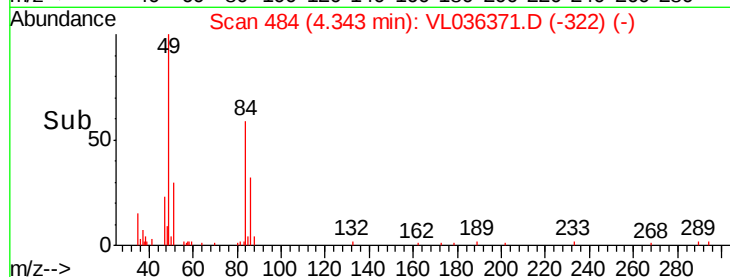
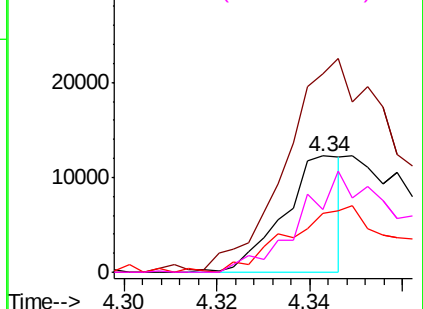
#20
Methylene Chloride
Concen: 0.170 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.02 min
Lab File: VL036371.D
Acq: 25 Feb 2021 4:48

Instrument :
MSVOA_L
ClientSampled :
BFB

Tot Ion:	84	Resp:	10649
Ion	Ratio	Lower	Upper
84	100		
49	166.5	133.8	200.8
51	47.6	41.4	62.0
86	54.0	51.5	77.3

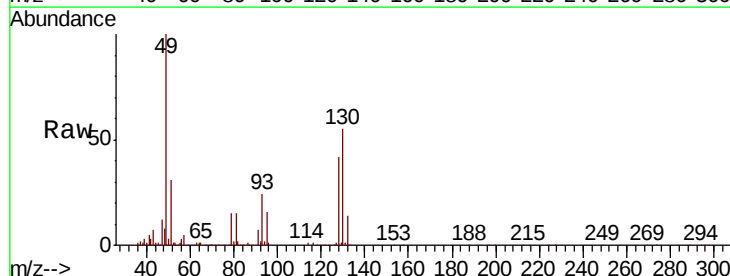


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

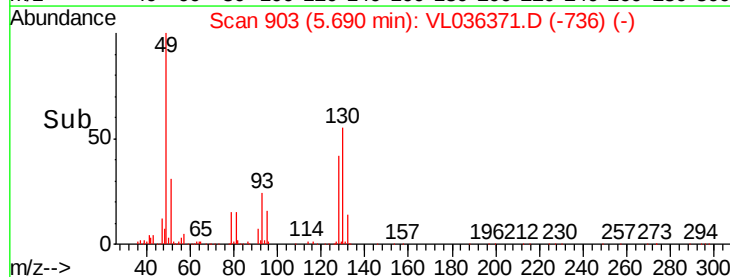
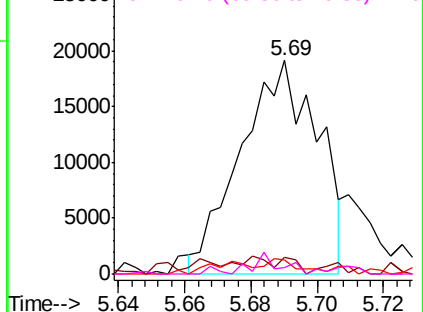


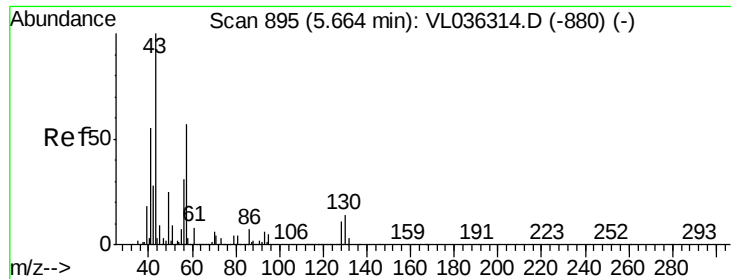
#25
Ethyl Acetate
Concen: 0.083 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.04 min
Lab File: VL036371.D
Acq: 25 Feb 2021 4:48

Tgt Ion:	43	Resp:	30948
Ion	Ratio	Lower	Upper
43	100		
45	9.7	8.3	12.5
61	8.1	7.3	10.9
70	5.8	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: 0.105 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.02 min

Lab File: VL036371.D

Acq: 25 Feb 2021 4:48

Instrument :

MSVOA_L

ClientSampleId :

BFB

Tot Ion: 57 Resp: 16183

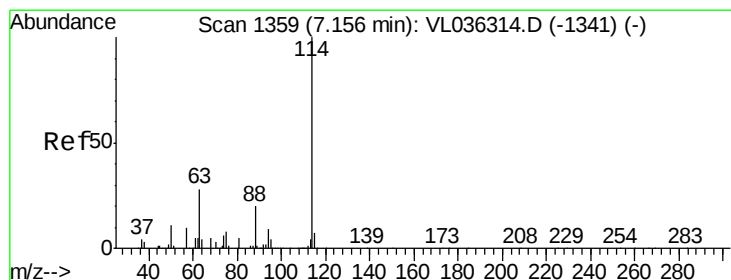
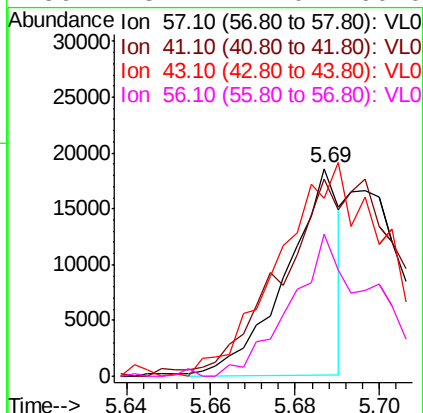
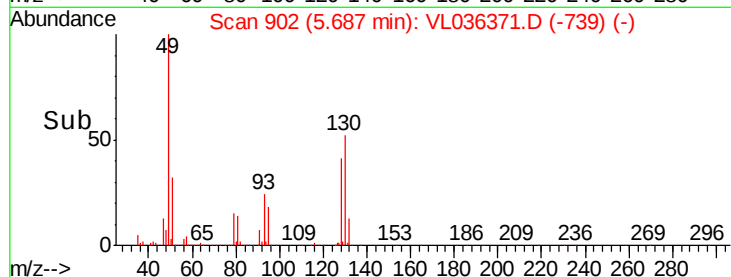
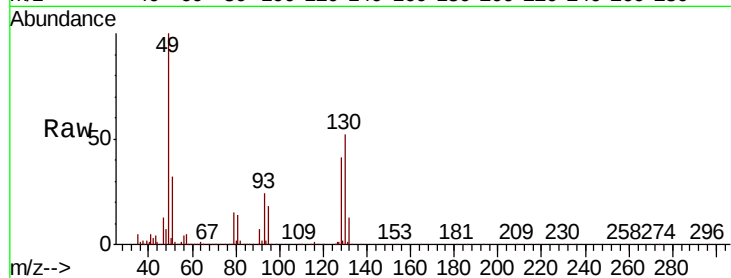
Ion Ratio Lower Upper

57 100

41 0.0 81.7 122.5#

43 248.2 199.1 298.7

56 128.4 44.0 66.0#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. 0.02 min

Lab File: VL036371.D

Acq: 25 Feb 2021 4:48

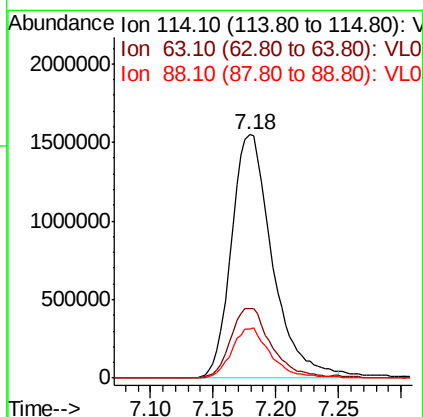
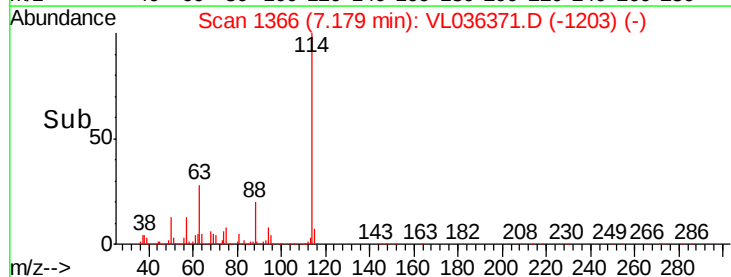
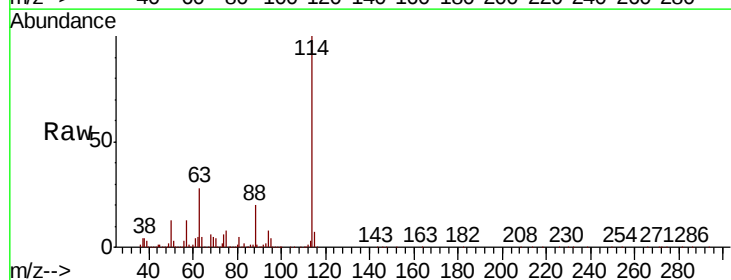
Tgt Ion: 114 Resp: 3512028

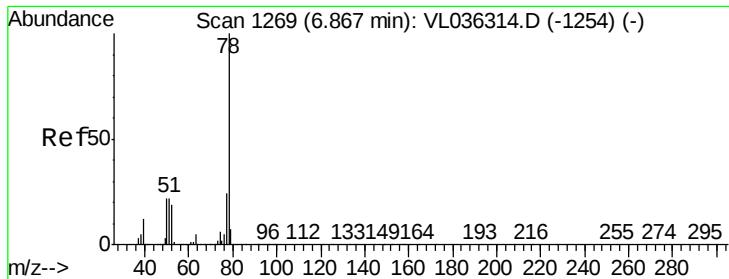
Ion Ratio Lower Upper

114 100

63 29.2 24.1 36.1

88 20.0 16.0 24.0





#36

Benzene

Concen: 0.034 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. 0.03 min

Lab File: VL036371.D

Acq: 25 Feb 2021 4:48

Instrument :

MSVOA_L

ClientSampleId :

BFB

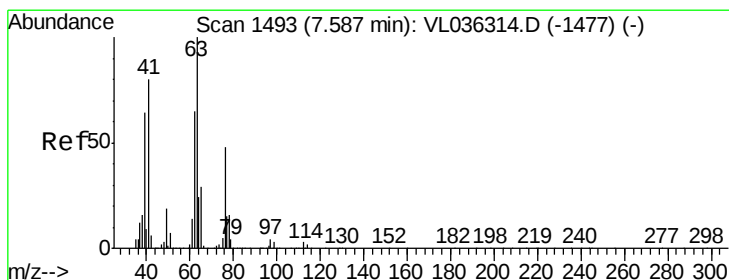
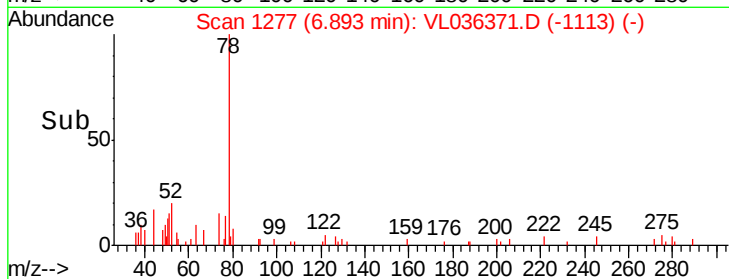
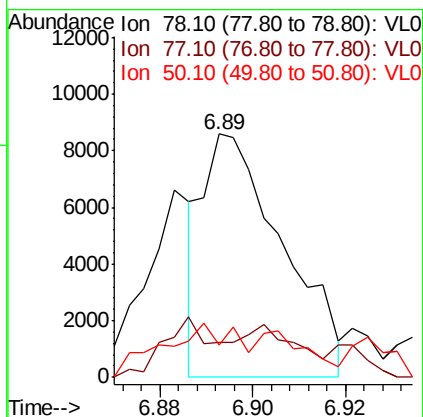
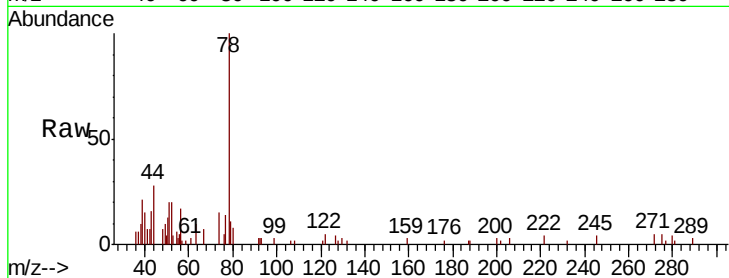
Tot Ion: 78 Resp: 10234

Ion Ratio Lower Upper

78 100

77 0.9 18.9 28.3#

50 10.4 17.3 25.9#



#39

1,2-Dichloropropane

Concen: 8.219 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.41 min

Lab File: VL036371.D

Acq: 25 Feb 2021 4:48

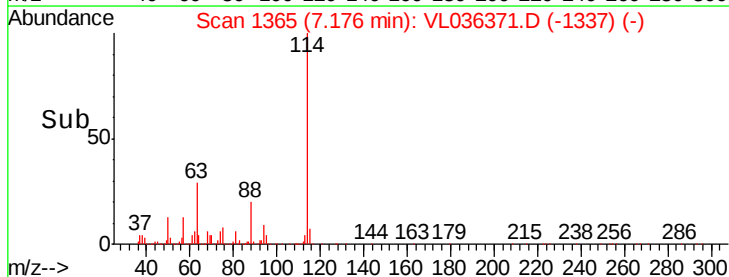
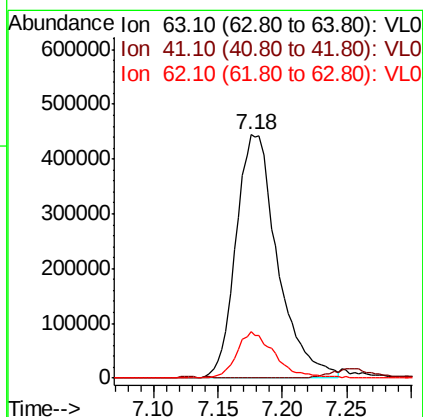
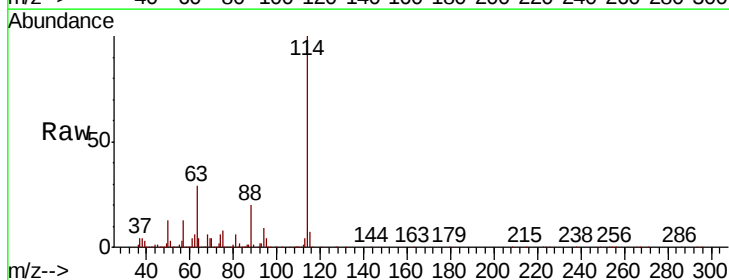
Tgt Ion: 63 Resp: 996040

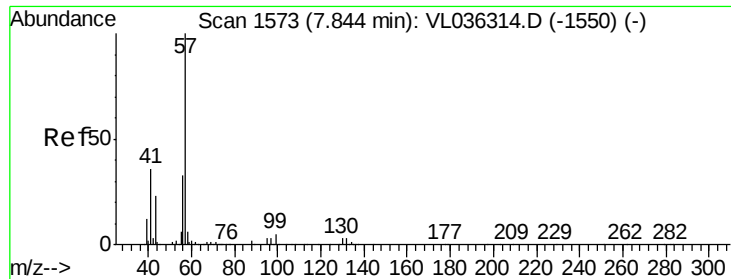
Ion Ratio Lower Upper

63 100

41 0.0 63.8 95.6#

62 19.2 52.3 78.5#

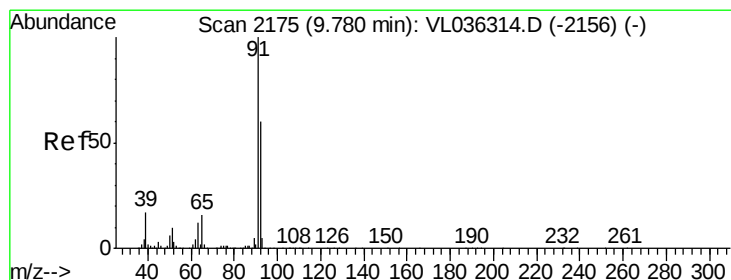
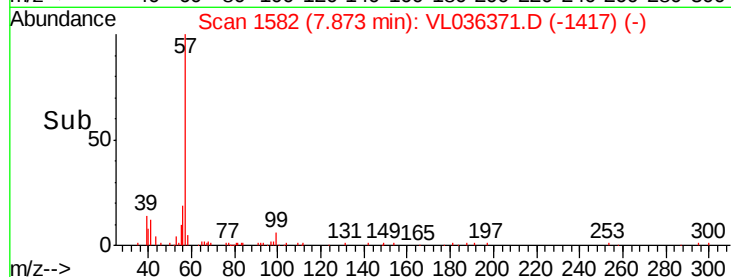
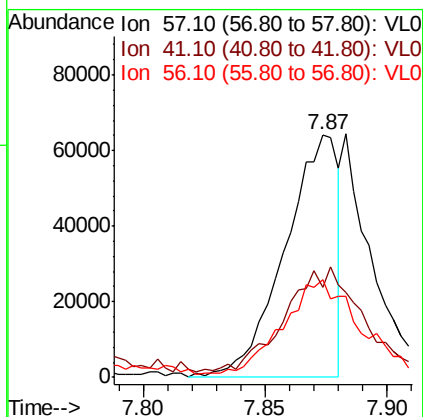
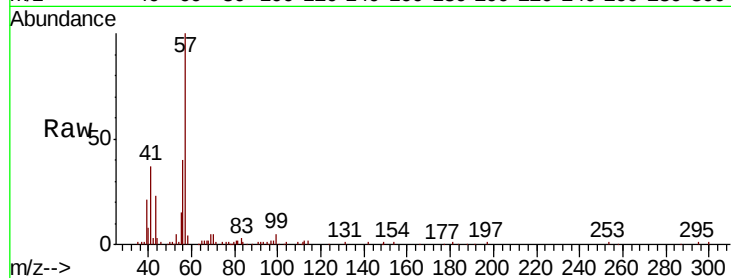




#44
2,2,4-Trimethylpentane
Concen: 0.177 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. 0.03 min
Lab File: VL036371.D
Acq: 25 Feb 2021 4:48

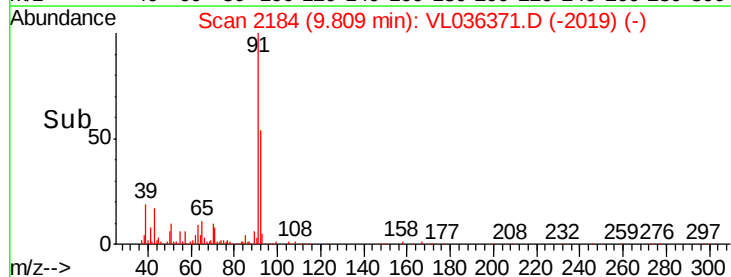
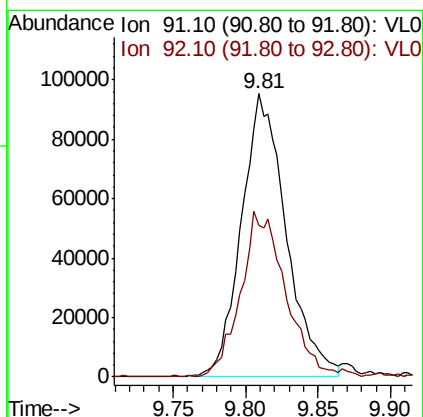
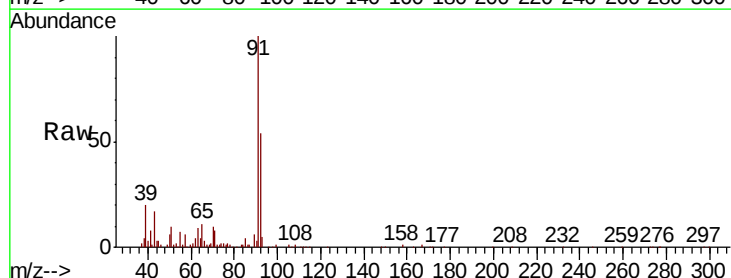
Instrument :
MSVOA_L
ClientSampleId :
BFB

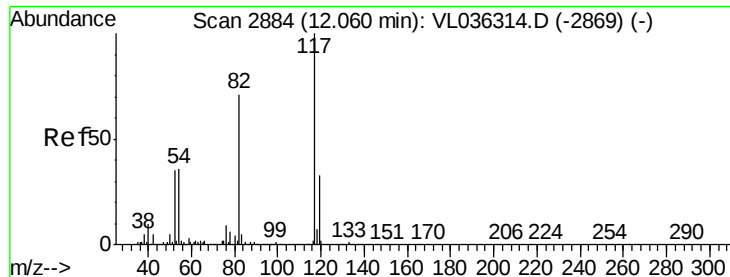
Tot Ion: 57 Resp: 96004
Ion Ratio Lower Upper
57 100
41 70.2 28.8 43.2#
56 64.2 25.8 38.6#



#53
Toluene
Concen: 0.632 ppbv
RT: 9.81 min Scan# 2184
Delta R.T. 0.03 min
Lab File: VL036371.D
Acq: 25 Feb 2021 4:48

Tgt Ion: 91 Resp: 204274
Ion Ratio Lower Upper
91 100
92 59.9 48.6 72.8

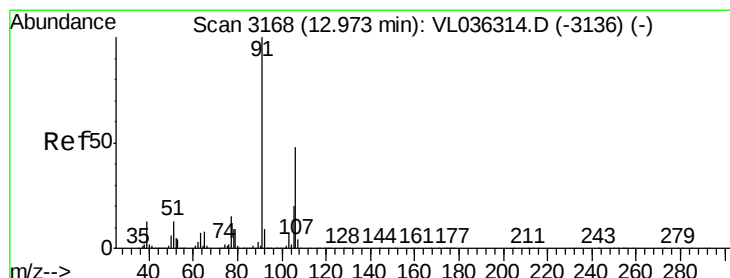
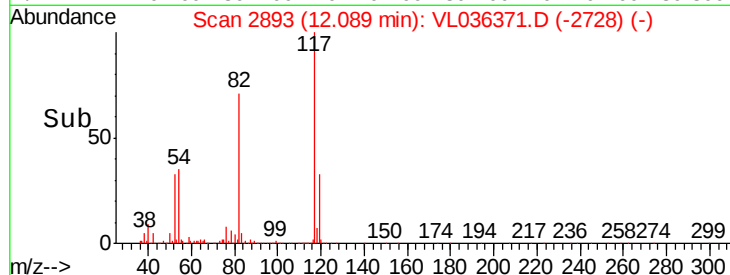
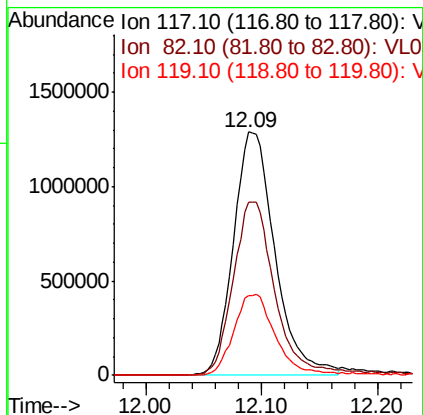
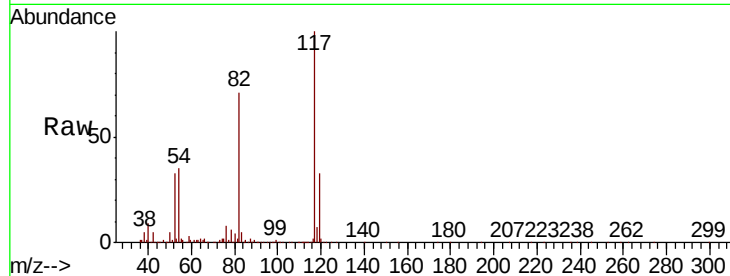




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. 0.03 min
Lab File: VL036371.D
Acq: 25 Feb 2021 4:48

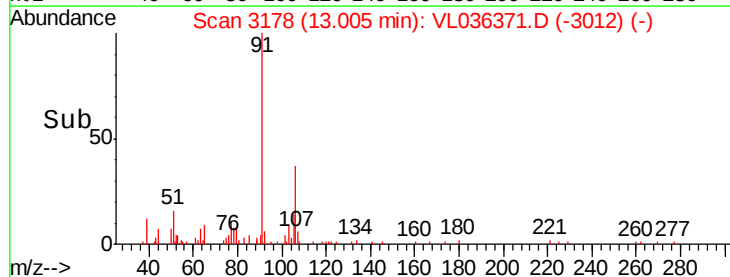
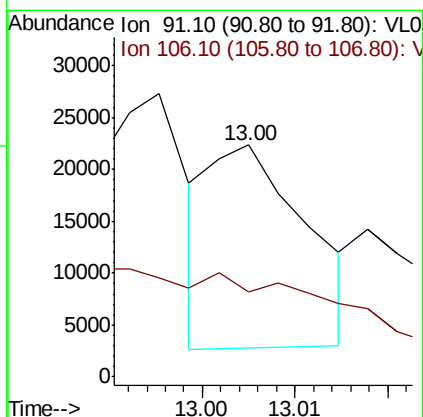
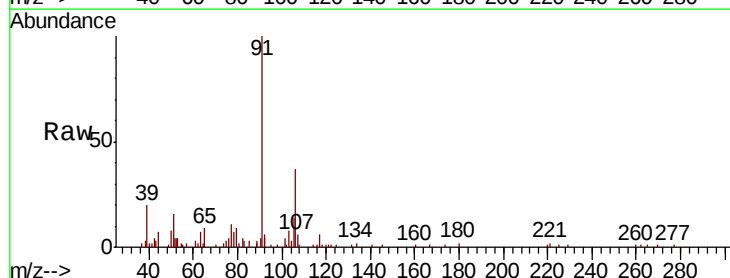
Instrument :
MSVOA_L
ClientSampleId :
BFB

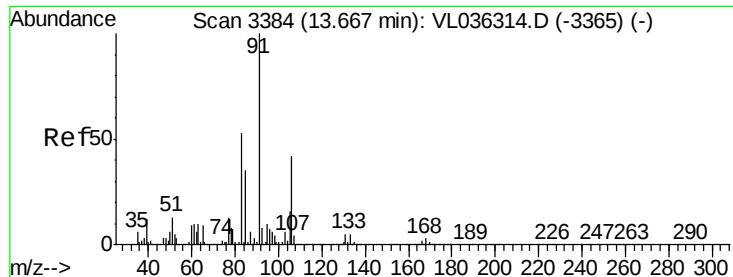
Tot Ion:117 Resp: 3203038
Ion Ratio Lower Upper
117 100
82 74.0 59.1 88.7
119 33.8 46.3 69.5#



#59
m/p-Xylene
Concen: 0.037 ppbv
RT: 13.00 min Scan# 3178
Delta R.T. 0.03 min
Lab File: VL036371.D
Acq: 25 Feb 2021 4:48

Tgt Ion: 91 Resp: 14167
Ion Ratio Lower Upper
91 100
106 0.0 34.2 51.2#

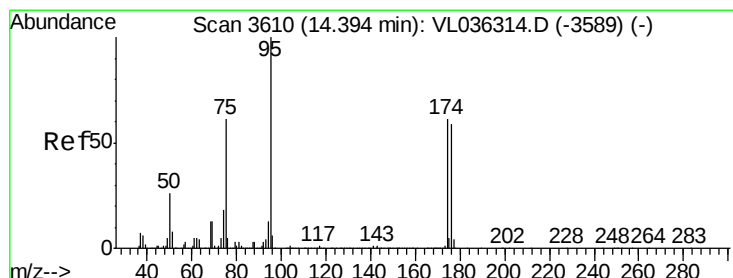
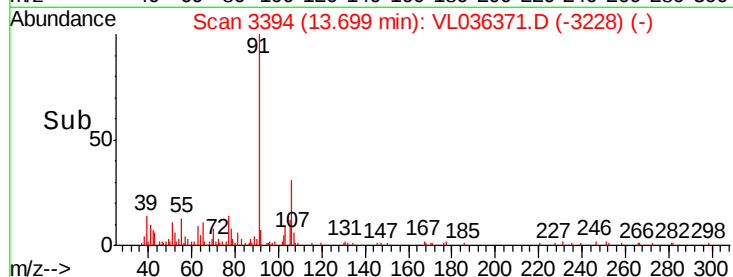
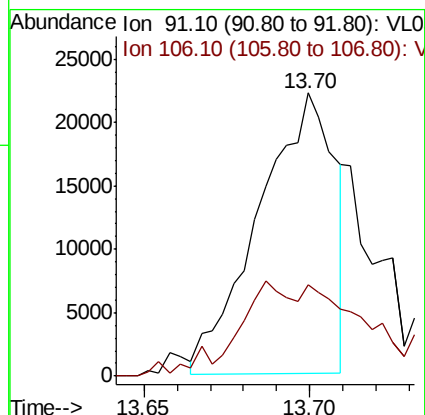
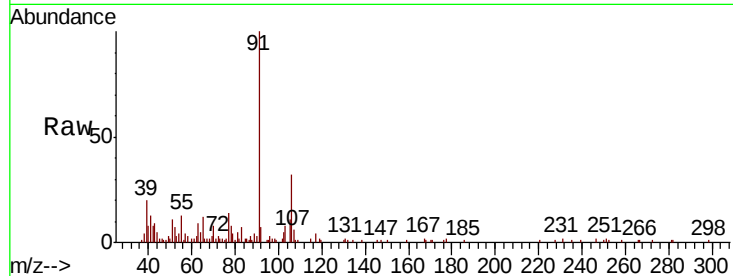




#60
o-Xylene
Concen: 0.096 ppbv
RT: 13.70 min Scan# 3394
Delta R.T. 0.03 min
Lab File: VL036371.D
Acq: 25 Feb 2021 4:48

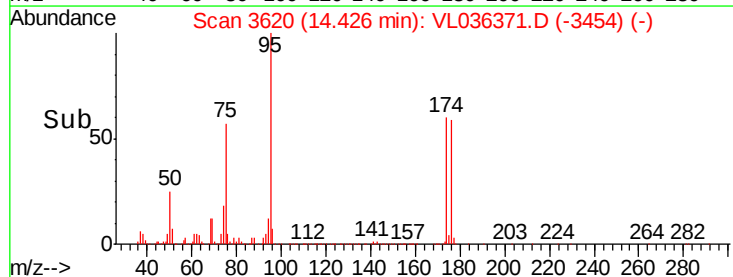
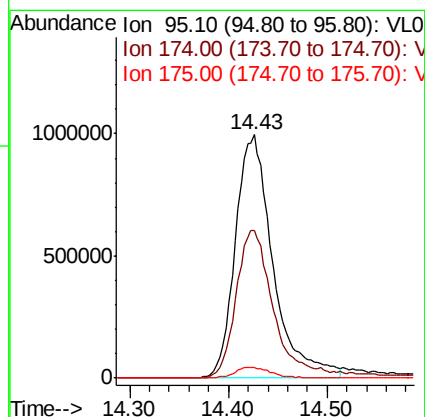
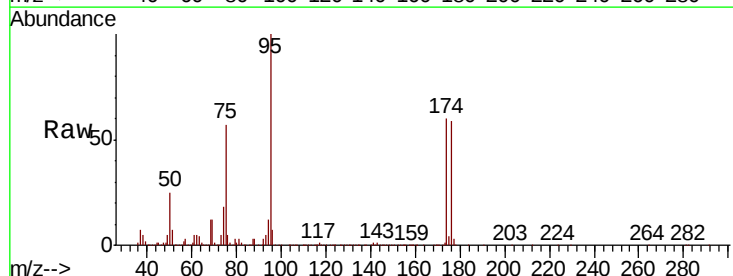
Instrument :
MSVOA_L
ClientSampled :
BFB

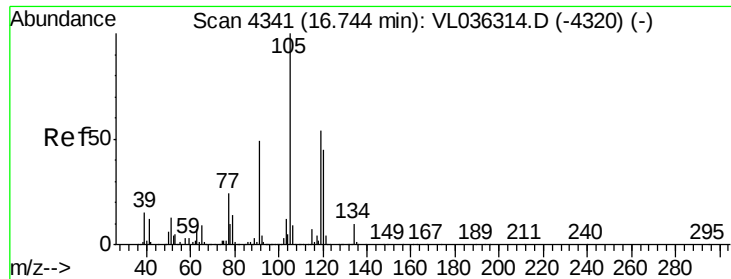
Tot Ion: 91 Resp: 35289
Ion Ratio Lower Upper
91 100
106 58.5 22.0 66.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.017 ppbv
RT: 14.43 min Scan# 3620
Delta R.T. 0.03 min
Lab File: VL036371.D
Acq: 25 Feb 2021 4:48

Tgt Ion: 95 Resp: 2639833
Ion Ratio Lower Upper
95 100
174 64.0 49.8 74.6
175 4.7 3.7 5.5





#74

1,2,4-Trimethylbenzene

Concen: 0.054 ppbv

RT: 16.78 min Scan# 4351

Delta R.T. 0.03 min

Lab File: VL036371.D

Acq: 25 Feb 2021 4:48

Instrument :

MSVOA_L

ClientSampleId :

BFB

Tot Ion:105 Resp: 21923

Ion Ratio Lower Upper

105 100

120 28.1 35.8 53.6#

91 18.5 39.8 59.6#

77 7.5 19.1 28.7#

