

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033021\
 Data File : VL036570.D
 Acq On : 30 Mar 2021 15:00
 Operator : SY/AP
 Sample : M1797-02 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 31 05:15:24 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1275333	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2912536	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	2623901	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2154808	10.30	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

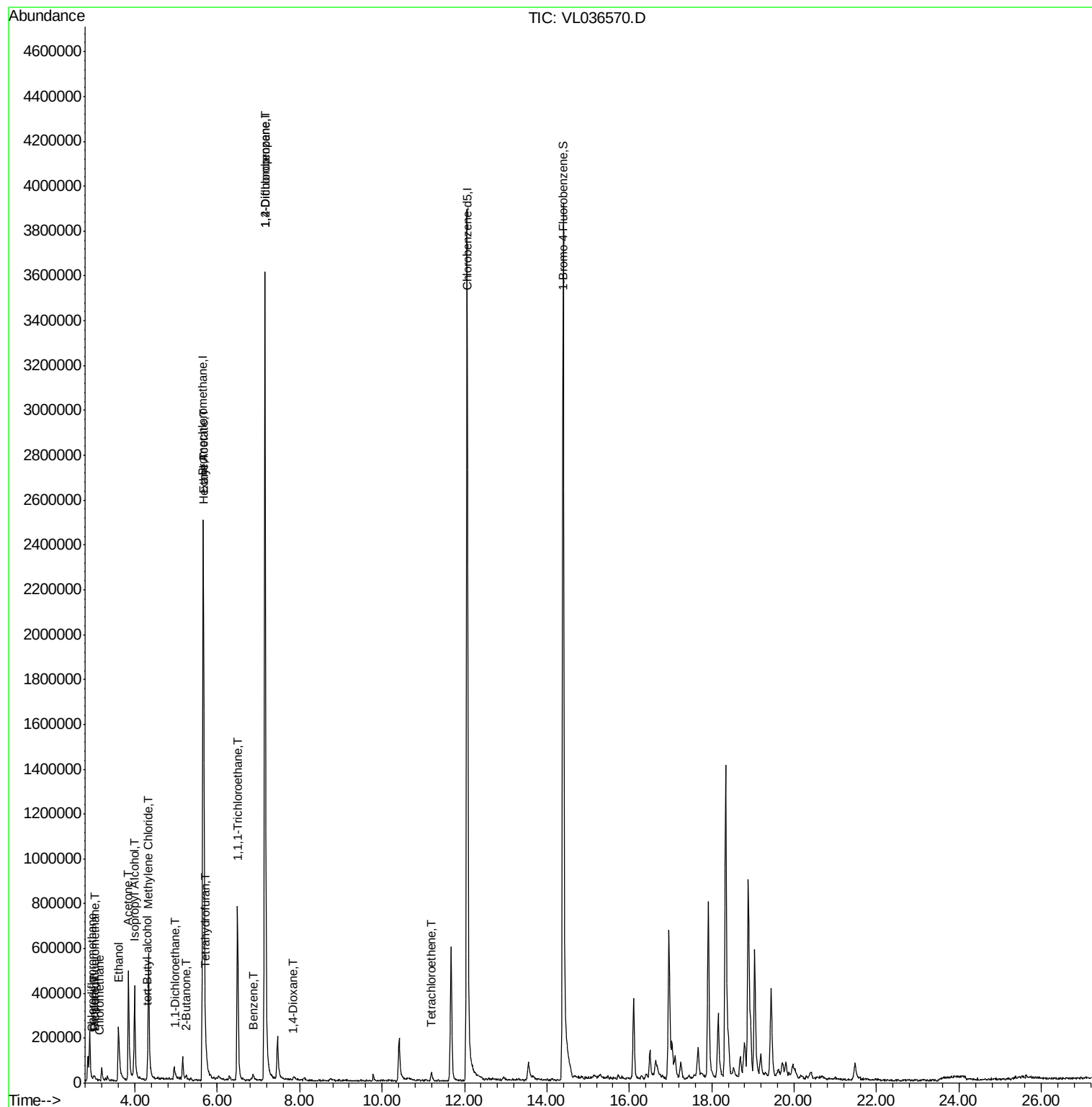
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	6486	0.031	ppbv #	76
3) Chlorodifluoromethane	2.97	51	10882	0.046	ppbv #	85
4) Chloromethane	3.13	50	1803	0.021	ppbv	96
9) Propene	3.00	41	2004	0.026	ppbv #	1
13) Ethanol	3.60	45	352641	38.984	ppbv	95
15) Acetone	3.84	43	631154	5.028	ppbv	97
17) tert-Butyl alcohol	4.30	59	11368	0.104	ppbv	97
19) Isopropyl Alcohol	3.99	45	121688	1.762	ppbv #	1
20) Methylene Chloride	4.33	84	213669	3.636	ppbv	94
24) 1,1-Dichloroethane	4.99	63	4680	0.030	ppbv #	82
25) Ethyl Acetate	5.67	43	351503	1.178	ppbv #	78
26) Hexane	5.67	57	482091	3.481	ppbv #	46
32) 1,1,1-Trichloroethane	6.49	97	529899	2.374	ppbv	99
34) 2-Butanone	5.23	43	5492	0.039	ppbv #	55
36) Benzene	6.87	78	18227	0.068	ppbv	96
39) 1,2-Dichloropropane	7.16	63	797137	7.316	ppbv #	23
40) 1,4-Dioxane	7.83	88	945	0.037	ppbv #	1
41) Tetrahydrofuran	5.71	42	4217	0.064	ppbv #	46
52) Tetrachloroethene	11.20	164	4112	0.042	ppbv #	63

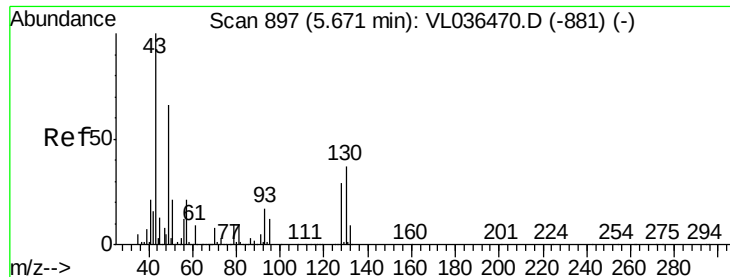
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL036570.D

Acq: 30 Mar 2021 15:00

Instrument :

MSVOA_L

ClientSampleId :

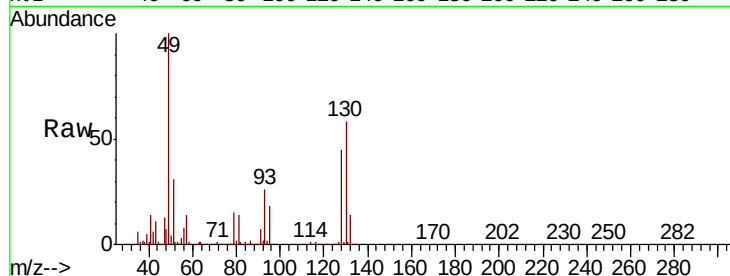
Tot Ion: 49 Resp: 1275333

Ion Ratio Lower Upper

49 100

128 45.3 23.5 70.6

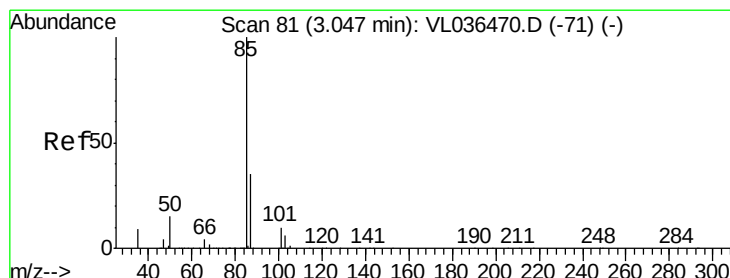
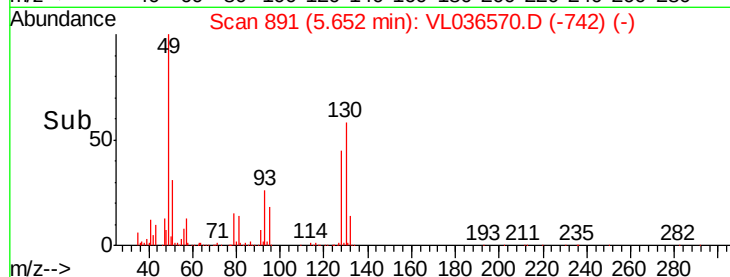
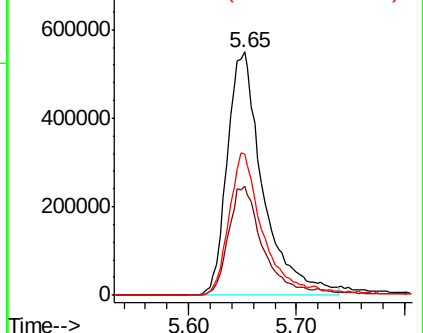
130 57.2 29.1 87.4



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: 0.031 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL036570.D

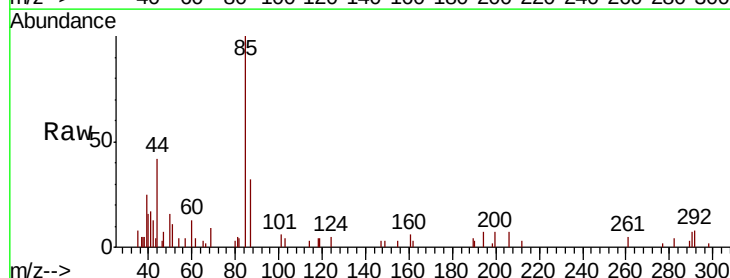
Acq: 30 Mar 2021 15:00

Tgt Ion: 85 Resp: 6486

Ion Ratio Lower Upper

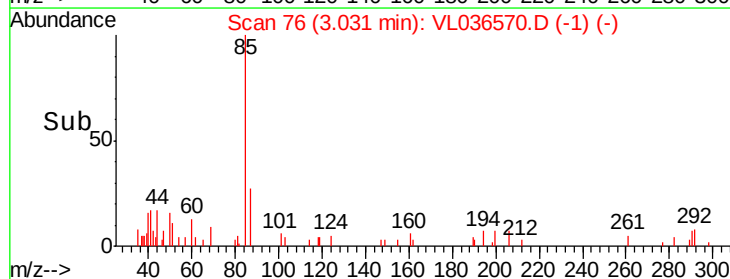
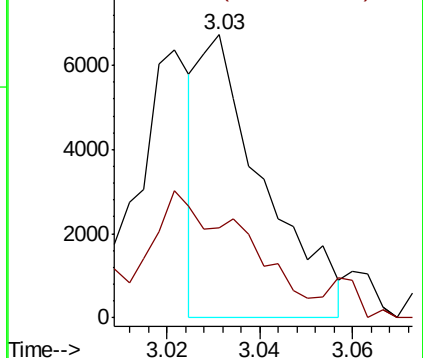
85 100

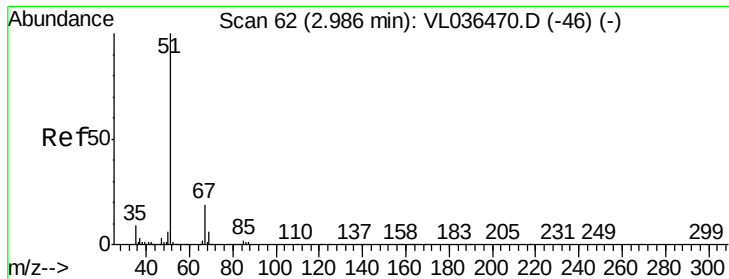
87 20.6 27.8 41.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.046 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.02 min

Lab File: VL036570.D

Acq: 30 Mar 2021 15:00

Instrument :

MSVOA_L

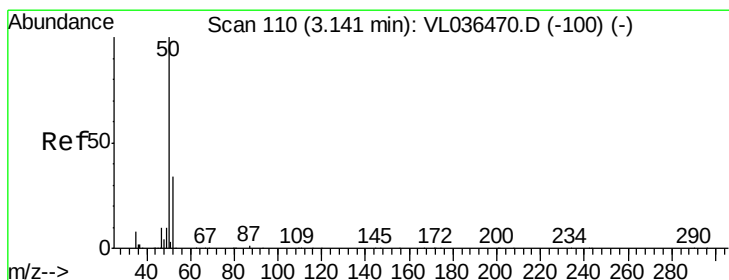
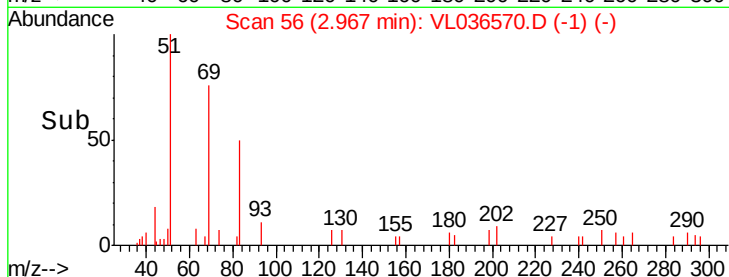
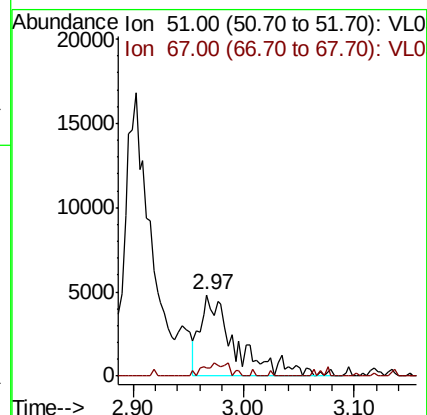
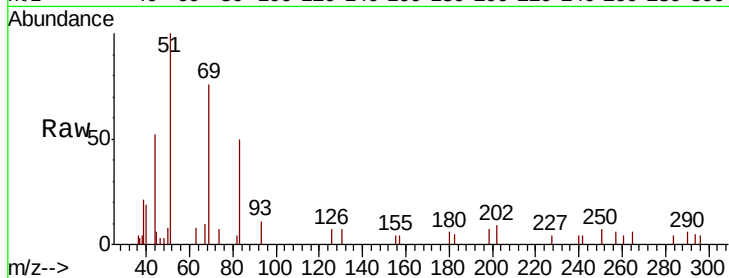
ClientSampleId :

Tot Ion: 51 Resp: 10882

Ion Ratio Lower Upper

51 100

67 11.9 14.7 22.1#



#4

Chloromethane

Concen: 0.021 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL036570.D

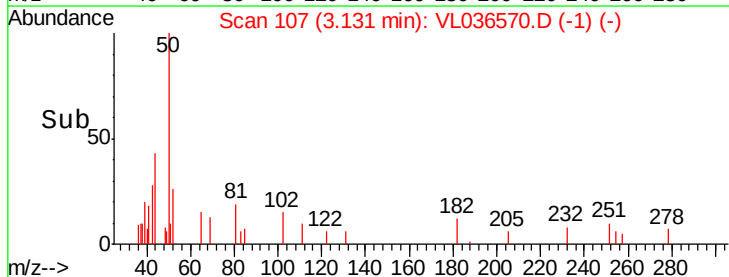
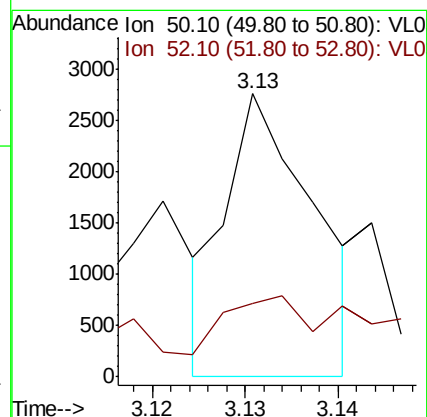
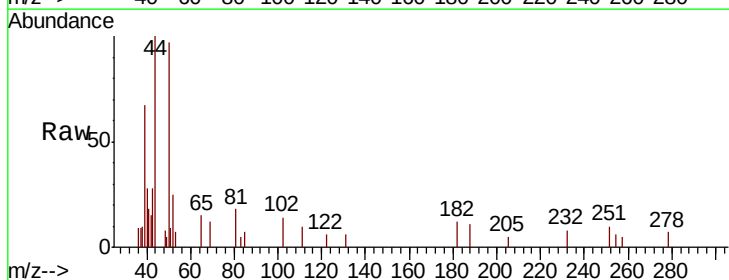
Acq: 30 Mar 2021 15:00

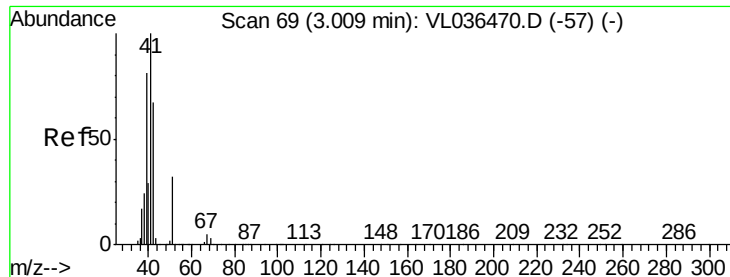
Tgt Ion: 50 Resp: 1803

Ion Ratio Lower Upper

50 100

52 31.4 27.0 40.6





#9

Propene

Concen: 0.026 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL036570.D

Acq: 30 Mar 2021 15:00

Instrument :

MSVOA_L

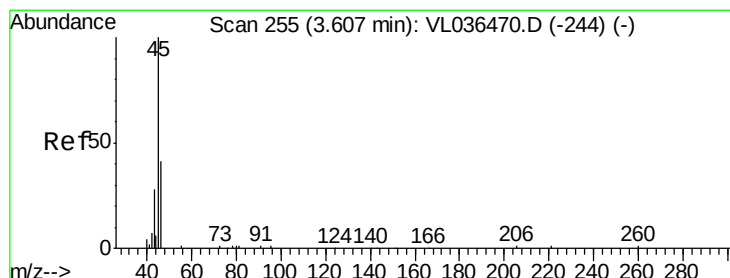
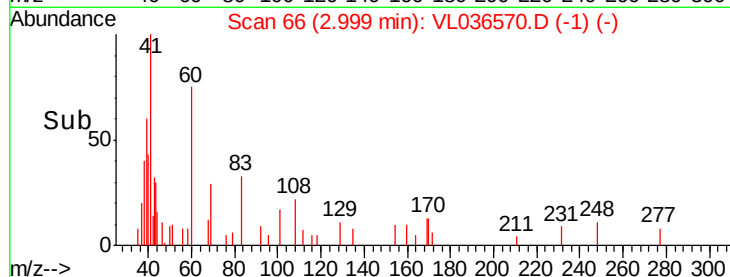
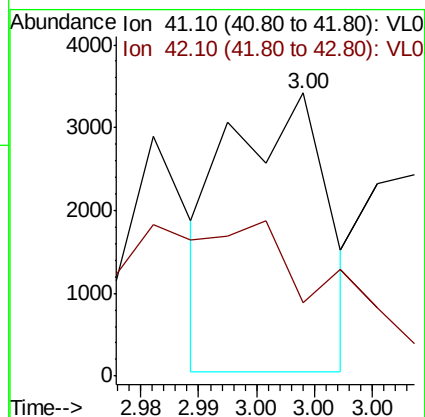
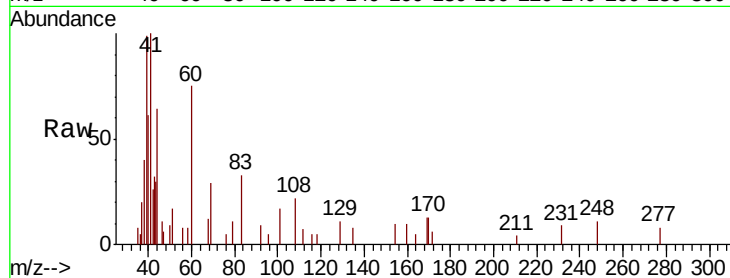
ClientSampleId :

Tot Ion: 41 Resp: 2004

Ion Ratio Lower Upper

41 100

42 209.7 57.0 85.4#



#13

Ethanol

Concen: 38.984 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL036570.D

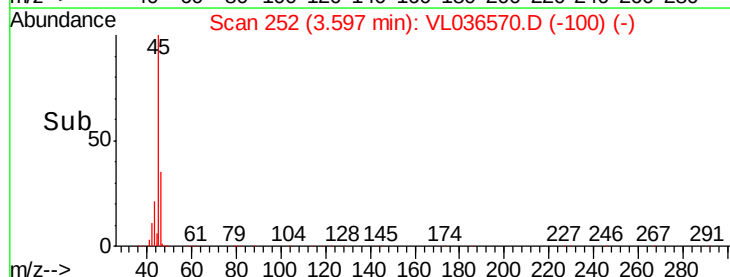
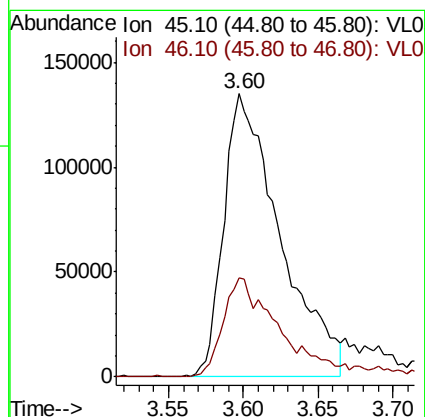
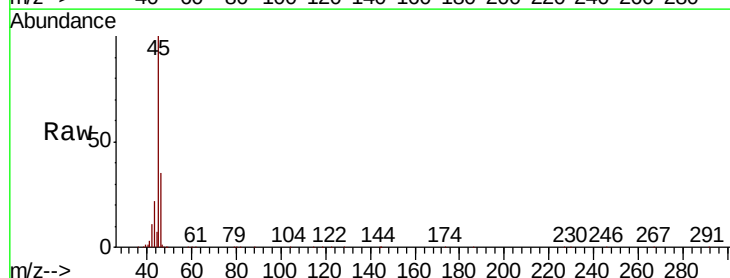
Acq: 30 Mar 2021 15:00

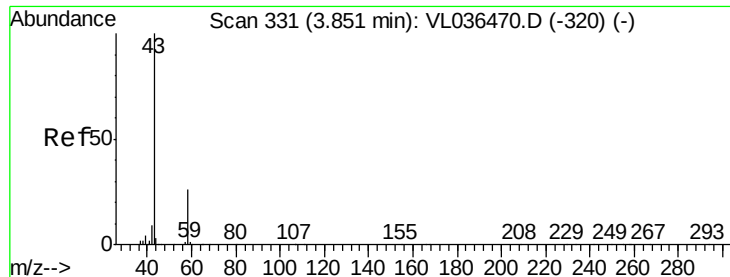
Tgt Ion: 45 Resp: 352641

Ion Ratio Lower Upper

45 100

46 38.1 16.6 66.2





#15

Acetone

Concen: 5.028 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL036570.D

Acq: 30 Mar 2021 15:00

Instrument :

MSVOA_L

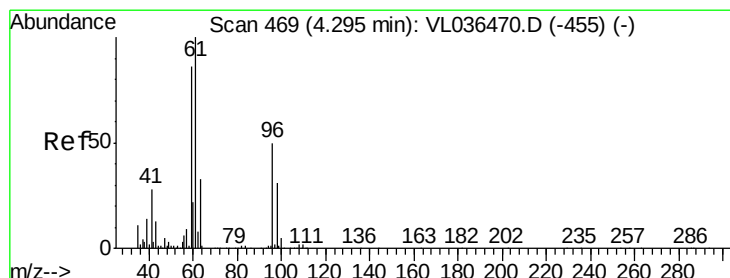
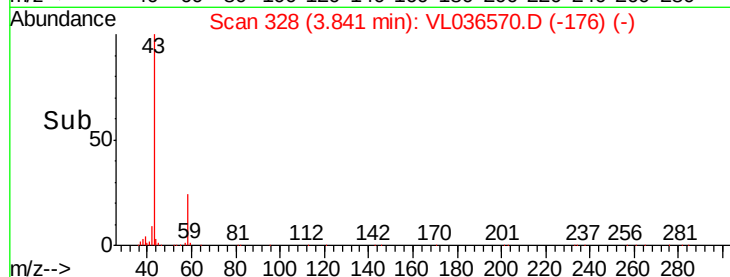
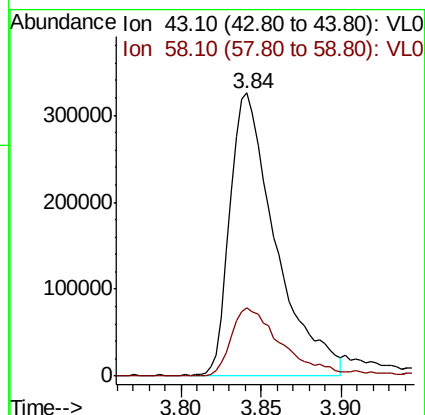
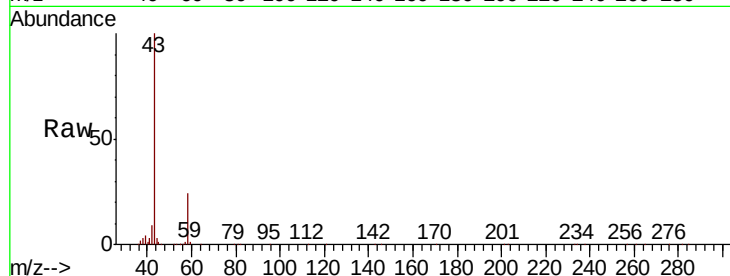
ClientSampleId :

Tot Ion: 43 Resp: 631154

Ion Ratio Lower Upper

43 100

58 28.1 21.2 31.8



#17

tert-Butyl alcohol

Concen: 0.104 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.01 min

Lab File: VL036570.D

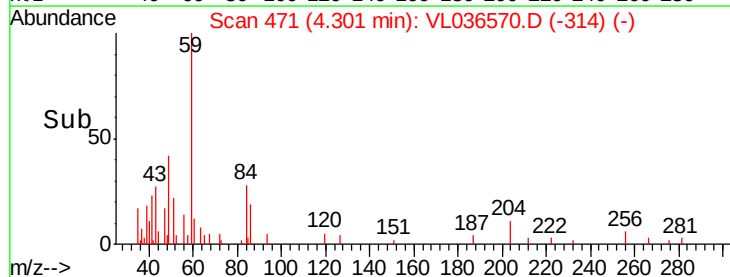
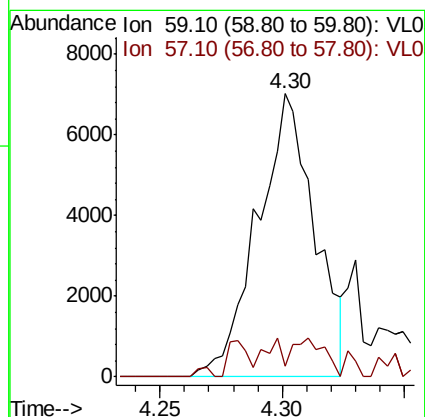
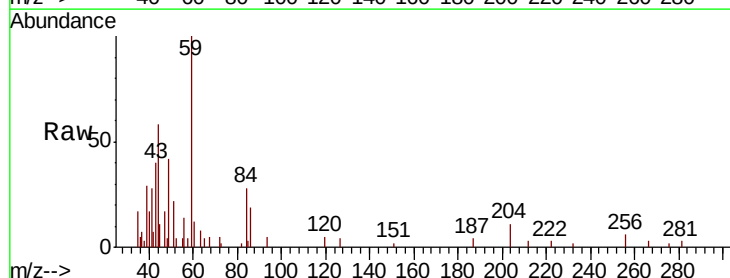
Acq: 30 Mar 2021 15:00

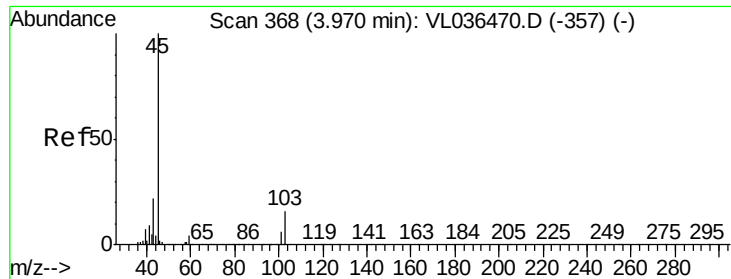
Tgt Ion: 59 Resp: 11368

Ion Ratio Lower Upper

59 100

57 9.5 8.6 12.8





#19

Isopropyl Alcohol

Concen: 1.762 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL036570.D

Acq: 30 Mar 2021 15:00

Instrument :

MSVOA_L

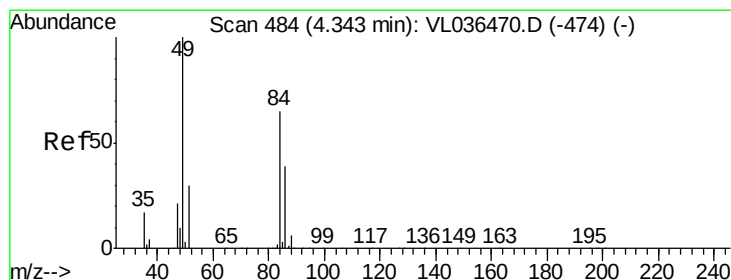
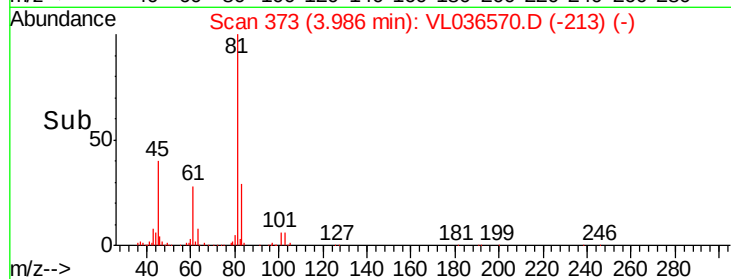
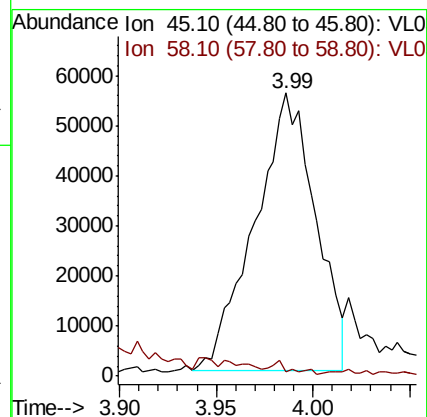
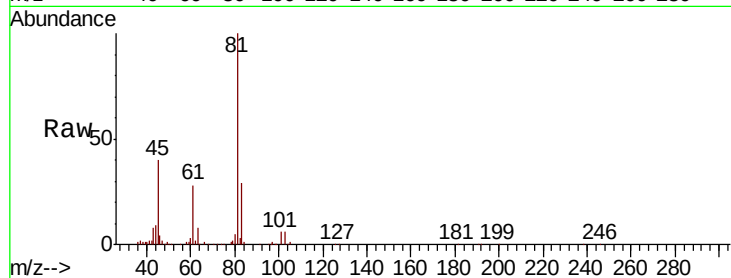
ClientSampleId :

Tot Ion: 45 Resp: 121688

Ion Ratio Lower Upper

45 100

58 152.5 2.9 4.3#



#20

Methylene Chloride

Concen: 3.636 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.01 min

Lab File: VL036570.D

Acq: 30 Mar 2021 15:00

Tgt Ion: 84 Resp: 213669

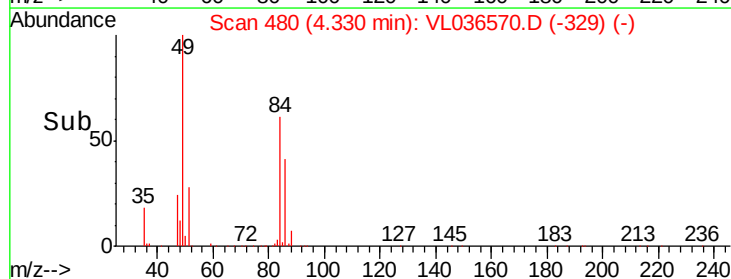
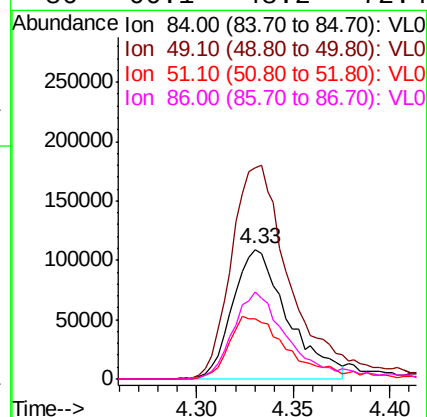
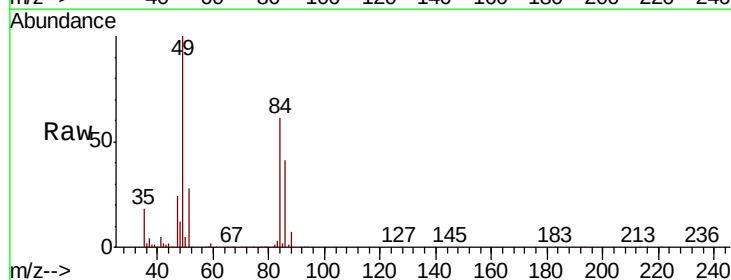
Ion Ratio Lower Upper

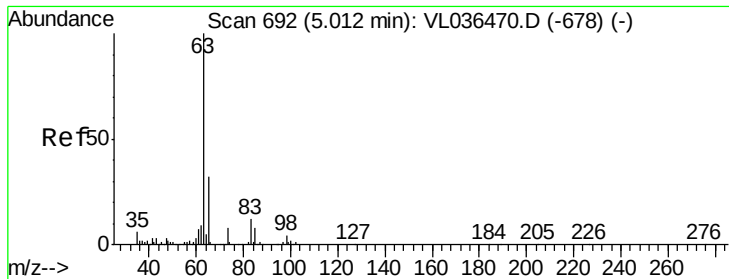
84 100

49 162.9 122.9 184.3

51 46.0 36.9 55.3

86 66.1 48.2 72.4





#24

1,1-Dichloroethane

Concen: 0.030 ppbv

RT: 4.99 min Scan# 685

Delta R.T. -0.02 min

Lab File: VL036570.D

Acq: 30 Mar 2021 15:00

Instrument :

MSVOA_L

ClientSampleId :

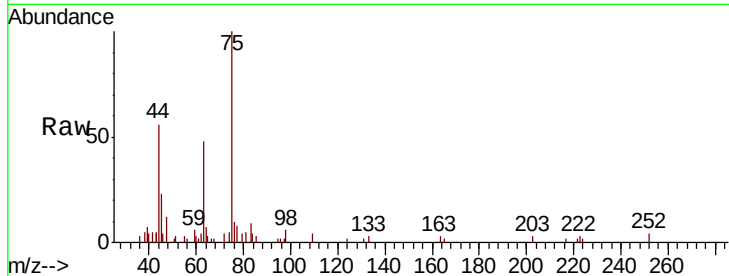
Tot Ion: 63 Resp: 4680

Ion Ratio Lower Upper

63 100

98 12.1 2.1 6.2#

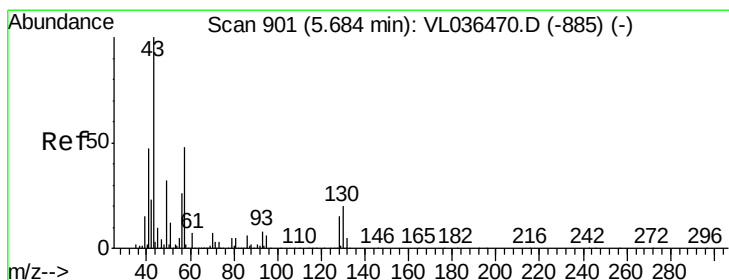
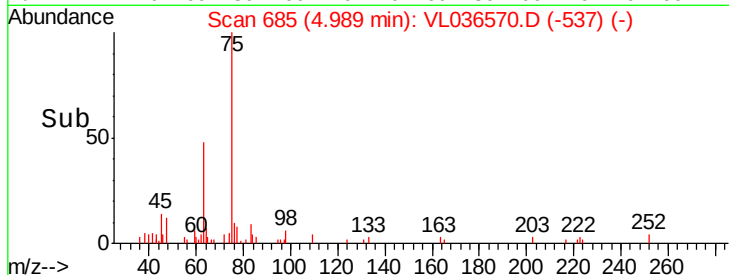
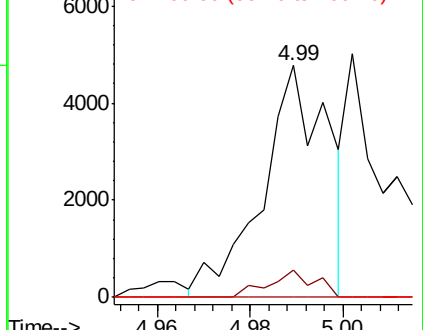
100 0.0 0.9 2.8#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 1.178 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.02 min

Lab File: VL036570.D

Acq: 30 Mar 2021 15:00

Tgt Ion: 43 Resp: 351503

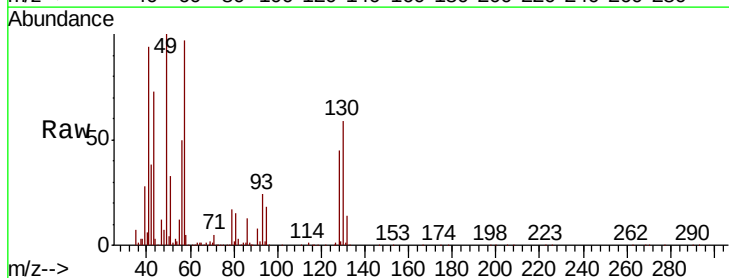
Ion Ratio Lower Upper

43 100

45 0.6 7.9 11.9#

61 0.3 7.4 11.2#

70 1.6 5.1 7.7#

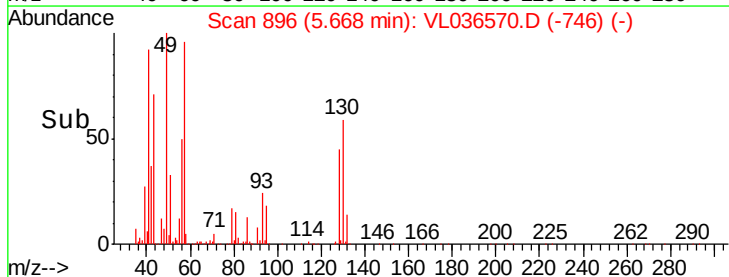
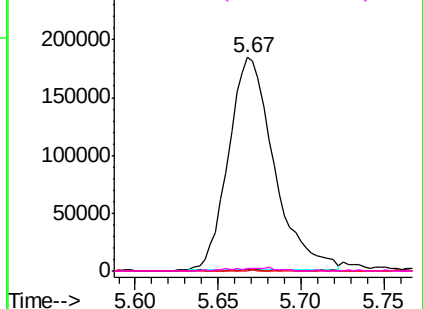


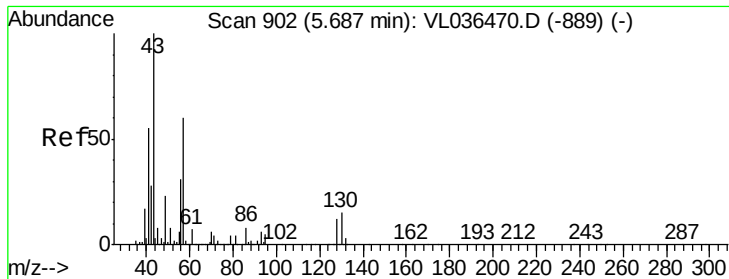
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

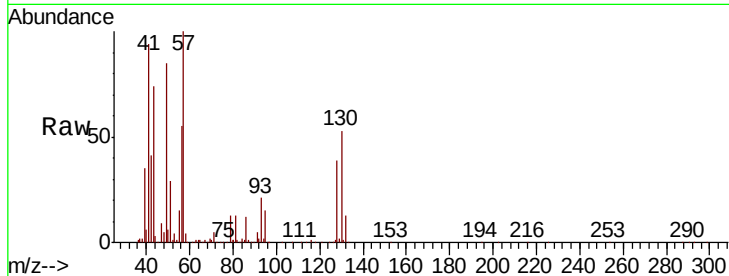




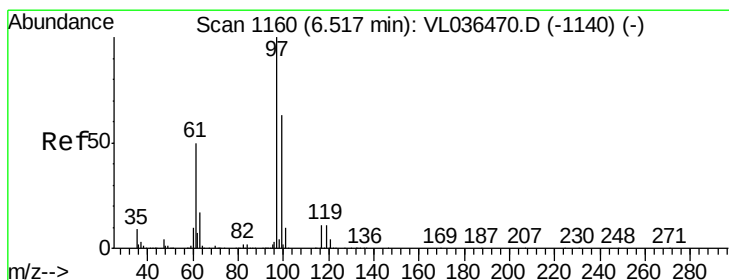
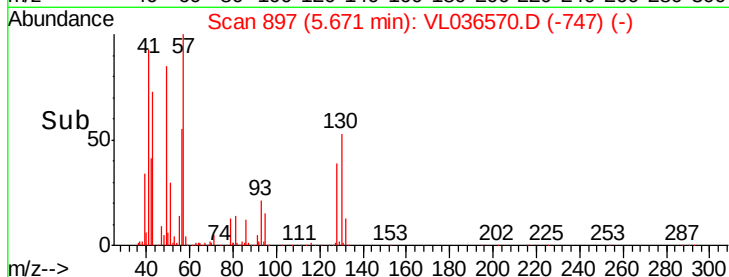
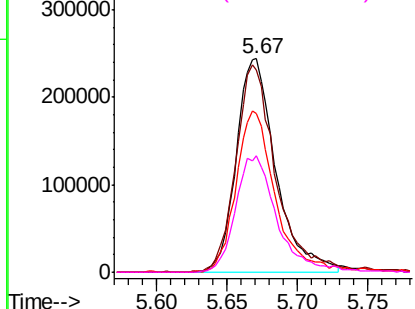
#26
Hexane
Concen: 3.481 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.02 min
Lab File: VL036570.D
Acq: 30 Mar 2021 15:00

Instrument :
MSVOA_L
ClientSampled :

Tot Ion	57	Resp	482091
Ion	Ratio	Lower	Upper
57	100		
41	100.5	77.2	115.8
43	76.5	173.8	260.6#
56	57.3	43.8	65.6

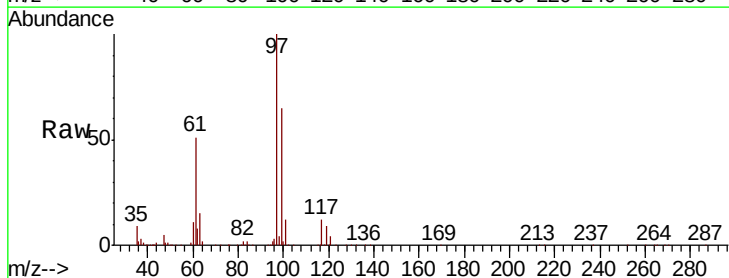


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

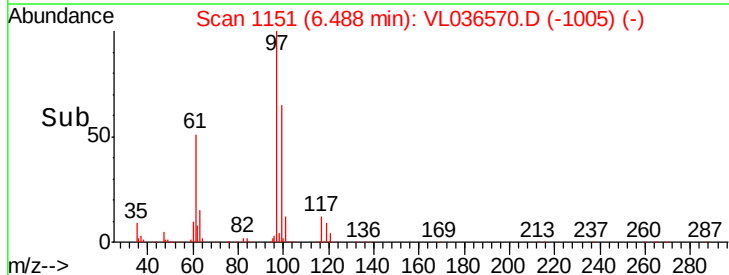
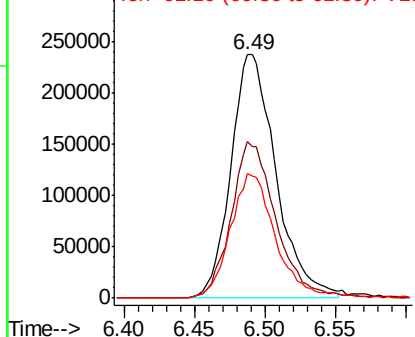


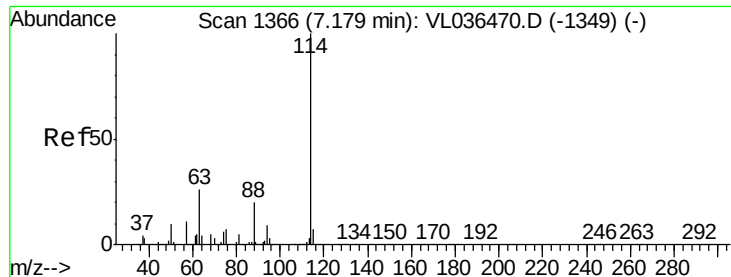
#32
1,1,1-Trichloroethane
Concen: 2.374 ppbv
RT: 6.49 min Scan# 1151
Delta R.T. -0.03 min
Lab File: VL036570.D
Acq: 30 Mar 2021 15:00

Tgt Ion	97	Resp	529899
Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.4	77.0
61	51.7	40.6	60.8



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0

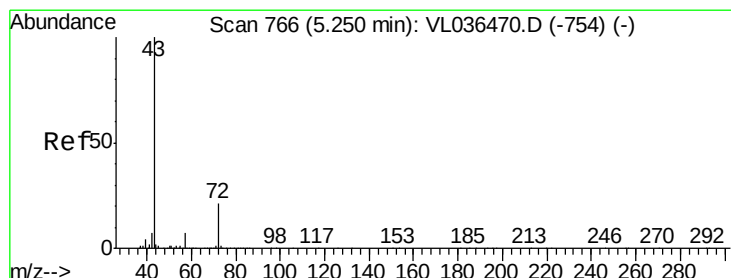
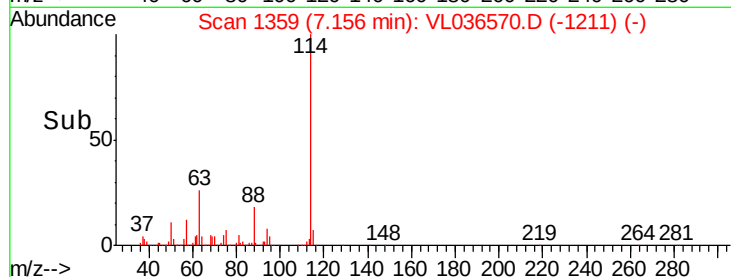
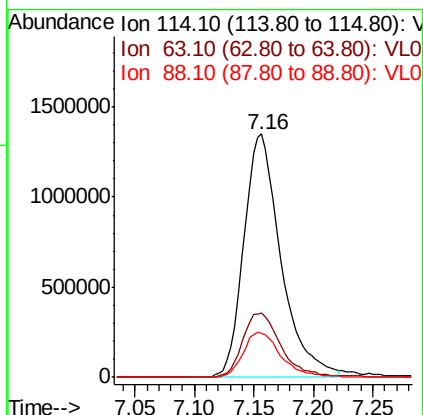
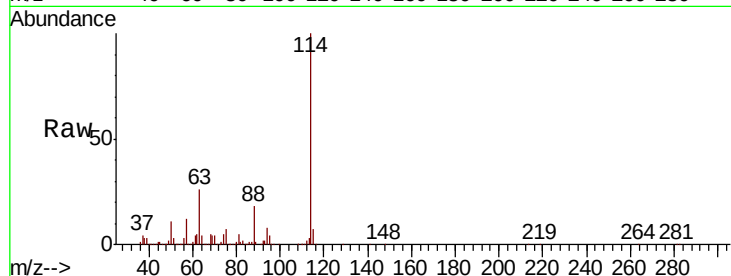




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.02 min
 Lab File: VL036570.D
 Acq: 30 Mar 2021 15:00

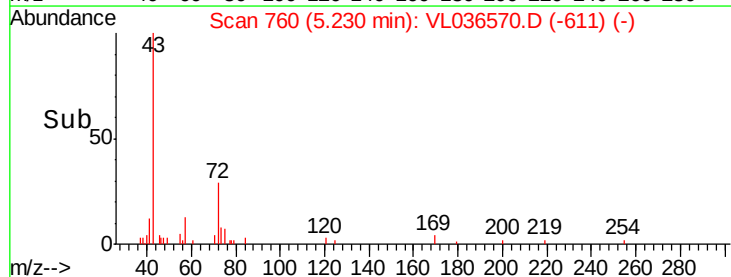
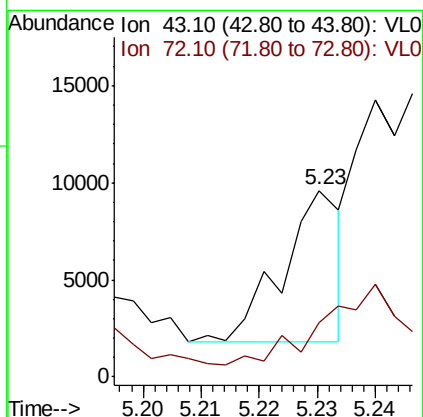
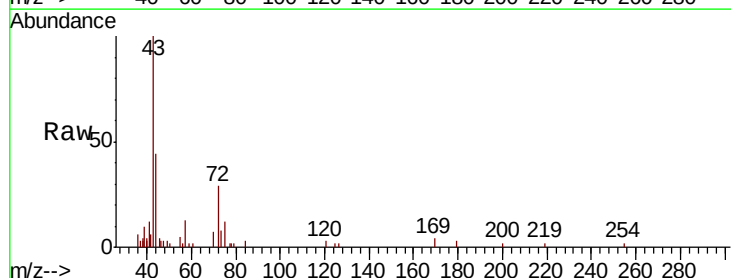
Instrument :
 MSVOA_L
 ClientSampleId :

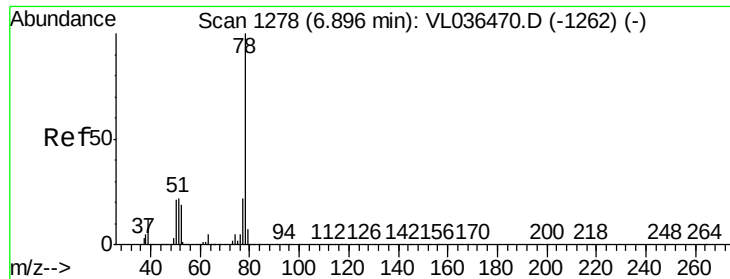
Tot Ion:114 Resp: 2912536
 Ion Ratio Lower Upper
 114 100
 63 28.0 22.4 33.6
 88 19.3 15.4 23.0



#34
 2-Butanone
 Concen: 0.039 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.02 min
 Lab File: VL036570.D
 Acq: 30 Mar 2021 15:00

Tgt Ion: 43 Resp: 5492
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.0 25.6#





#36

Benzene

Concen: 0.068 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.03 min

Lab File: VL036570.D

Acq: 30 Mar 2021 15:00

Instrument :

MSVOA_L

ClientSampleId :

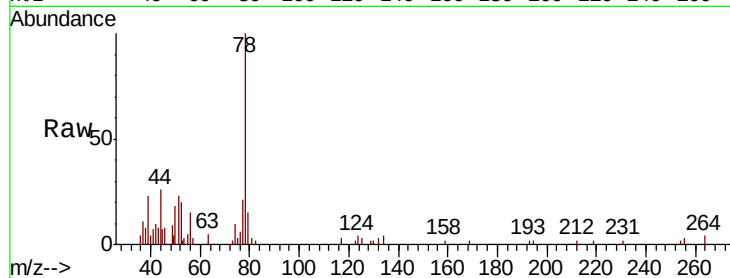
Tot Ion: 78 Resp: 18227

Ion Ratio Lower Upper

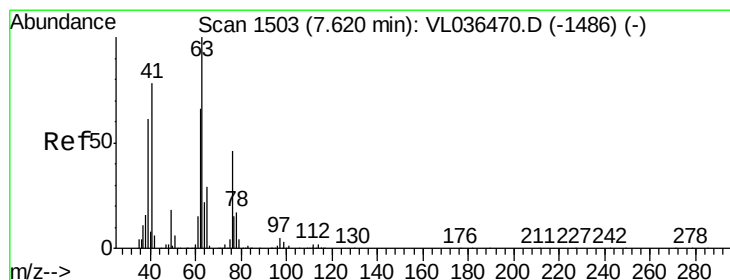
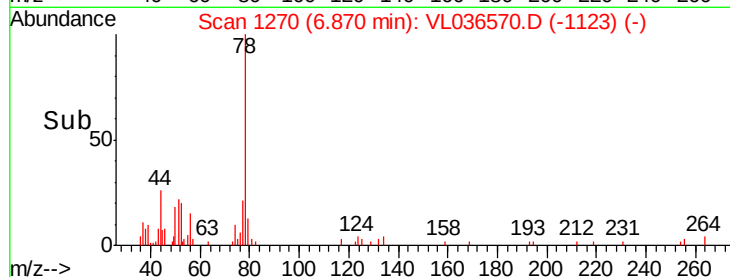
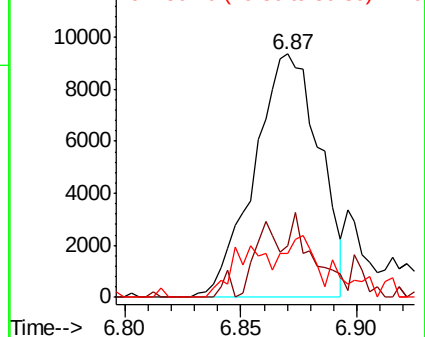
78 100

77 21.4 18.0 27.0

50 18.2 16.5 24.7



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: 7.316 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.46 min

Lab File: VL036570.D

Acq: 30 Mar 2021 15:00

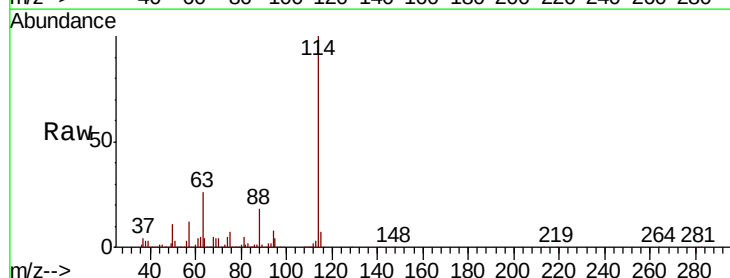
Tgt Ion: 63 Resp: 797137

Ion Ratio Lower Upper

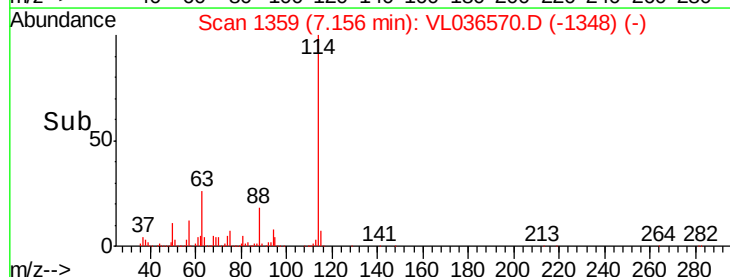
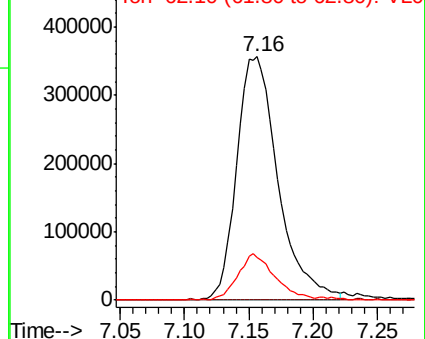
63 100

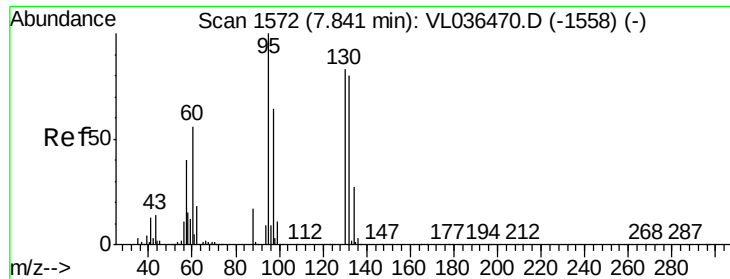
41 0.2 62.4 93.6#

62 17.2 52.8 79.2#



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

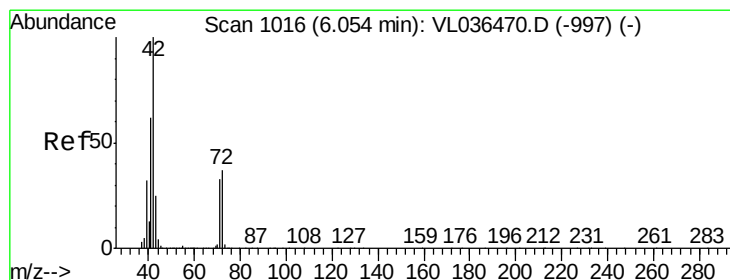
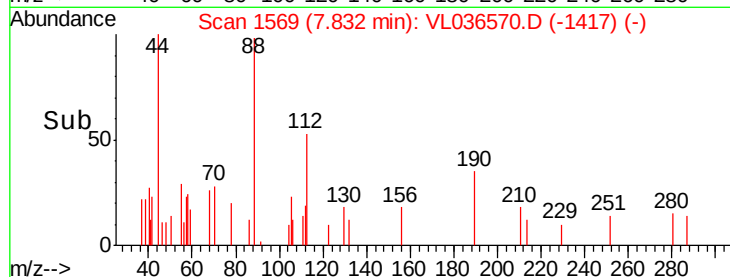
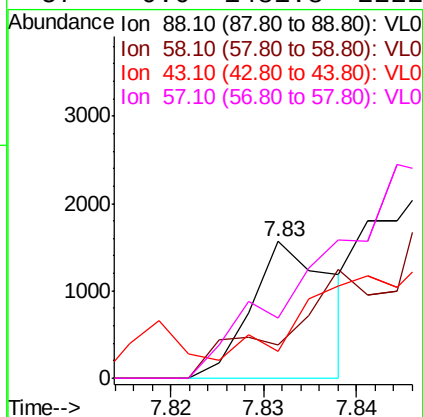
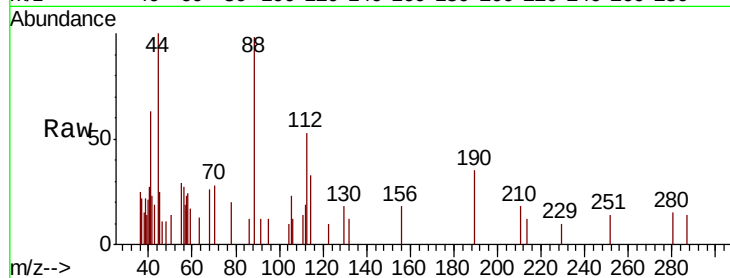




#40
1,4-Dioxane
Concen: 0.037 ppbv
RT: 7.83 min Scan# 1569
Delta R.T. -0.01 min
Lab File: VL036570.D
Acq: 30 Mar 2021 15:00

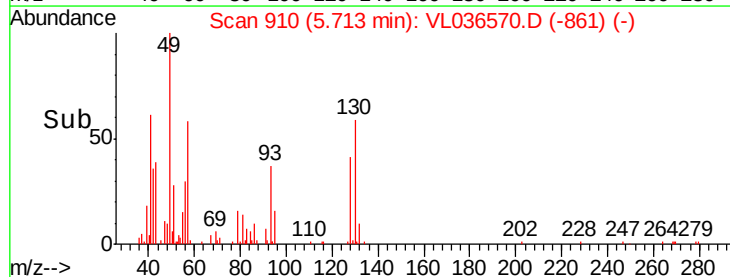
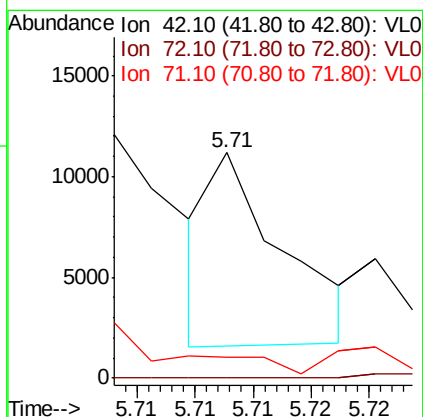
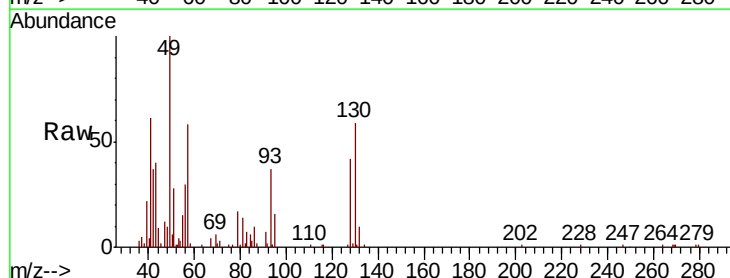
Instrument :
MSVOA_L
ClientSampleId :

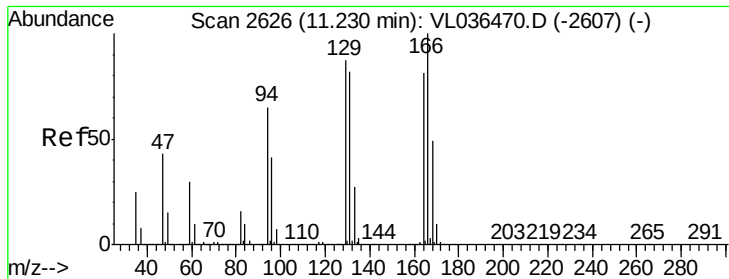
Tot Ion: 88 Resp: 945
Ion Ratio Lower Upper
88 100
58 0.0 134.1 201.1#
43 0.0 346.6 520.0#
57 0.0 1481.8 2222.8#



#41
Tetrahydrofuran
Concen: 0.064 ppbv
RT: 5.71 min Scan# 910
Delta R.T. -0.34 min
Lab File: VL036570.D
Acq: 30 Mar 2021 15:00

Tgt Ion: 42 Resp: 4217
Ion Ratio Lower Upper
42 100
72 6.2 27.6 41.4#
71 0.0 27.0 40.4#





#52

Tetrachloroethene

Concen: 0.042 ppbv

RT: 11.20 min Scan# 2616

Delta R.T. -0.03 min

Lab File: VL036570.D

Acq: 30 Mar 2021 15:00

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 4112

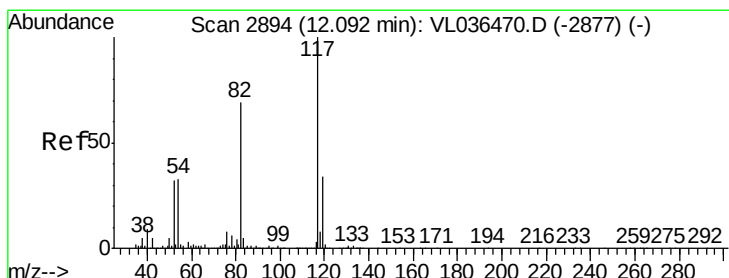
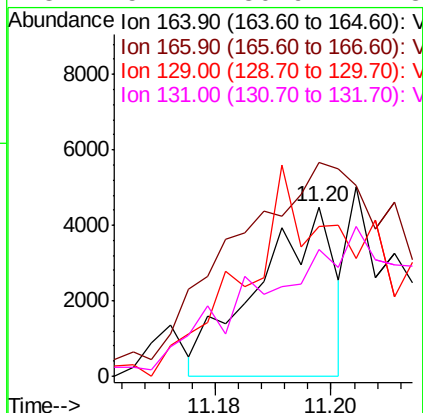
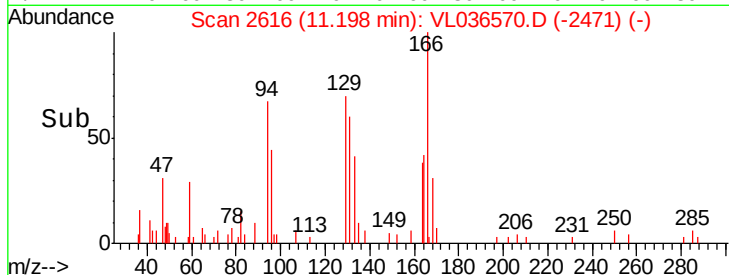
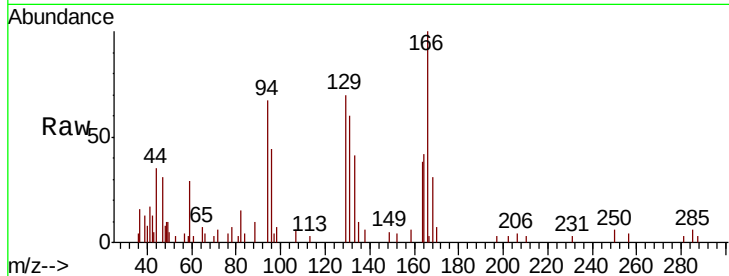
Ion Ratio Lower Upper

164 100

166 83.8 98.3 147.5#

129 71.2 85.8 128.8#

131 57.2 80.9 121.3#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.03 min

Lab File: VL036570.D

Acq: 30 Mar 2021 15:00

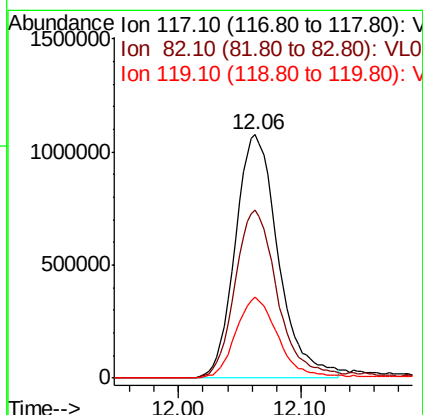
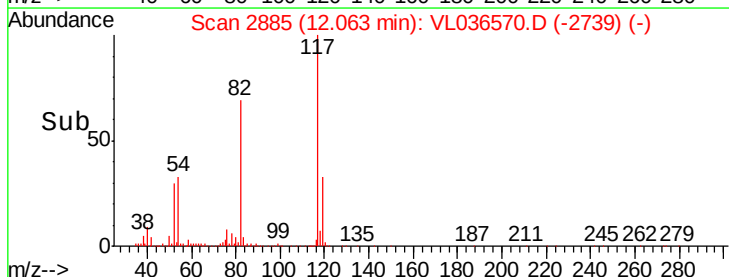
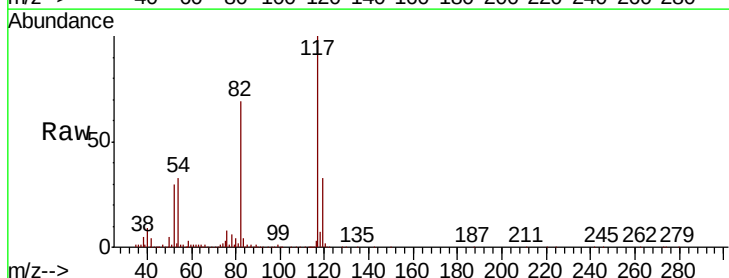
Tgt Ion:117 Resp: 2623901

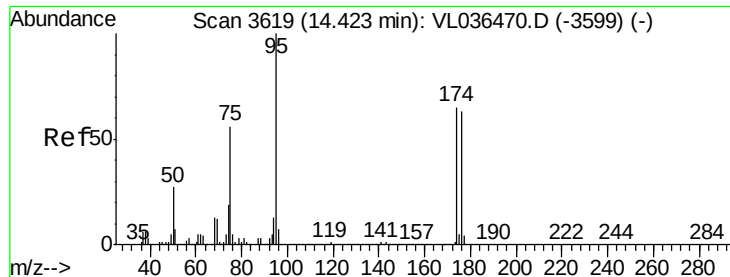
Ion Ratio Lower Upper

117 100

82 71.2 57.4 86.0

119 33.5 47.4 71.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.304 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.03 min

Lab File: VL036570.D

Acq: 30 Mar 2021 15:00

Instrument :

MSVOA_L

ClientSampleId :

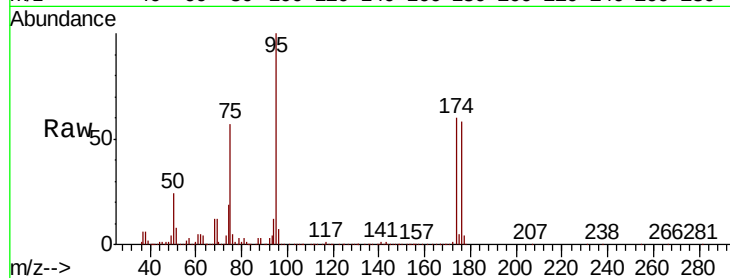
Tot Ion: 95 Resp: 2154808

Ion Ratio Lower Upper

95 100

174 61.6 51.0 76.6

175 4.6 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

