

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036235.D
 Acq On : 13 Jan 2021 21:40
 Operator : SY/AP
 Sample : M1070-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Quant Time: Jan 13 23:21:51 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jan 13 07:53:51 2021
 QLast Update : Wed Jan 13 07:53:51 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1468710	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3064929	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2646465	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2213576	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

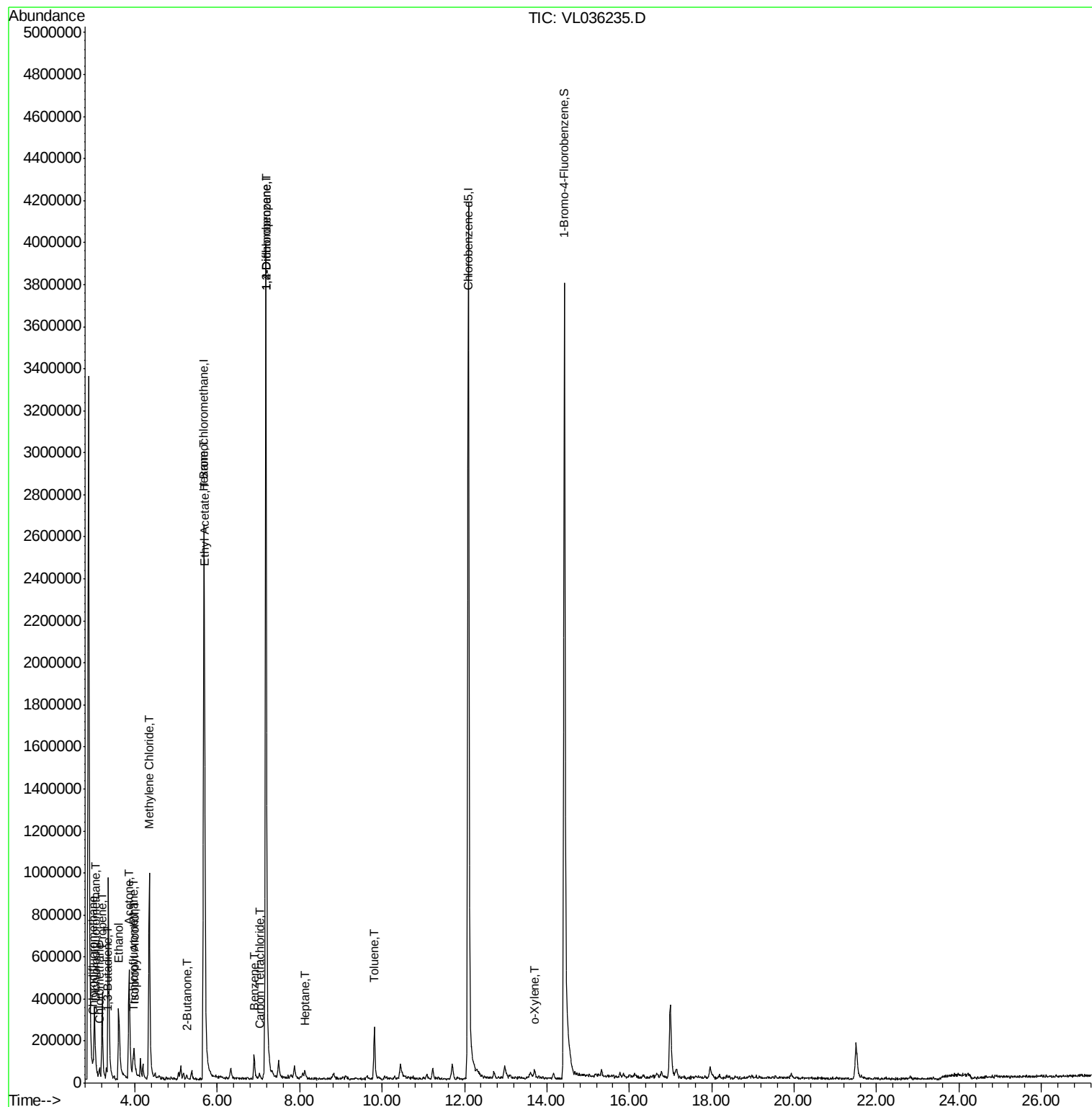
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	36252	0.182 ppbv	89
3) Chlorodifluoromethane	2.99	51	106033	0.582 ppbv #	90
4) Chloromethane	3.14	50	20037	0.222 ppbv #	83
9) Propene	3.20	41	141835	1.633 ppbv	93
10) Heptane	8.12	43	9436	0.044 ppbv #	20
11) Trichlorofluoromethane	3.95	101	26834	0.137 ppbv	95
13) Ethanol	3.61	45	474880	26.047 ppbv	90
15) Acetone	3.85	43	700895	4.018 ppbv	96
16) 1,3-Butadiene	3.33	39	6043	0.073 ppbv #	1
19) Isopropyl Alcohol	3.98	45	152105	1.509 ppbv #	91
20) Methylene Chloride	4.35	84	371661	6.958 ppbv	96
25) Ethyl Acetate	5.69	43	343976	0.968 ppbv #	79
26) Hexane	5.69	57	435608	2.933 ppbv #	39
34) 2-Butanone	5.26	43	26023	0.133 ppbv	91
35) Carbon Tetrachloride	7.01	117	6225	0.032 ppbv #	52
36) Benzene	6.89	78	99578	0.355 ppbv	98
39) 1,2-Dichloropropane	7.18	63	915401	8.028 ppbv #	21
53) Toluene	9.81	91	191296	0.615 ppbv	99
60) o-Xylene	13.70	91	13567	0.042 ppbv #	32

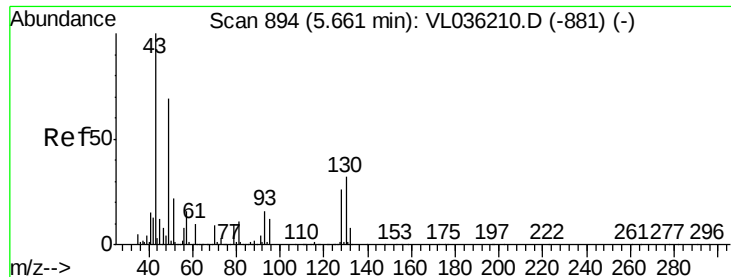
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jan 13 07:53:51 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.01 min

Lab File: VL036235.D

Acq: 13 Jan 2021 21:40

Instrument :

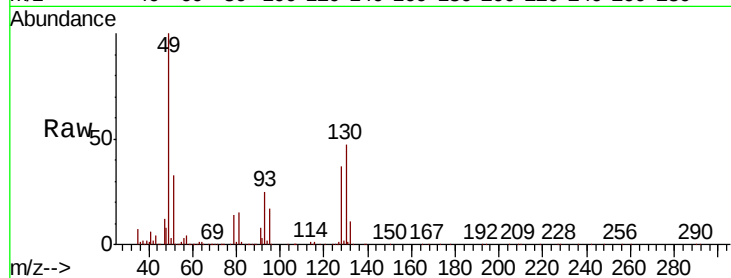
MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion: 49 Resp: 1468710

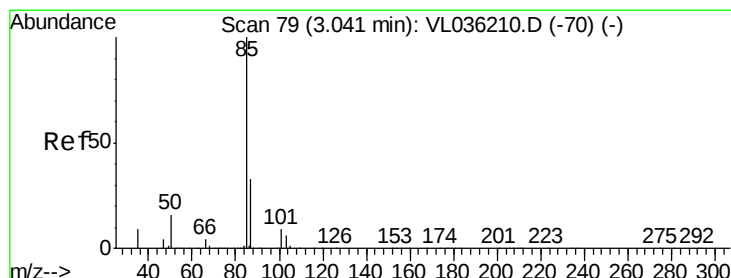
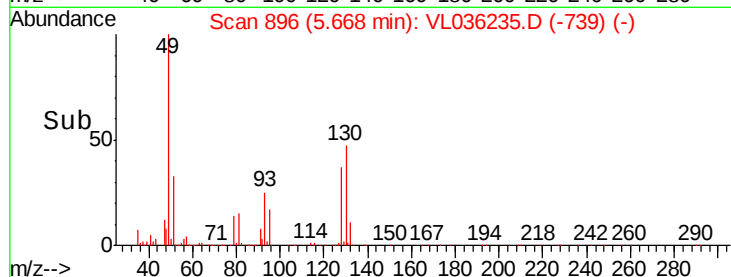
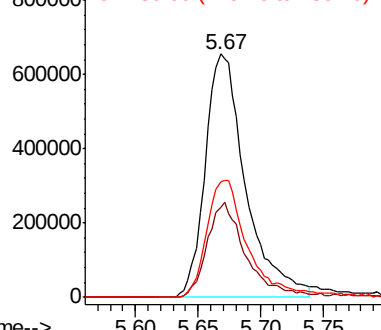
Ion	Ratio	Lower	Upper
49	100		
128	39.2	20.1	60.2
130	50.3	25.3	75.9



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: 0.182 ppbv

RT: 3.05 min Scan# 81

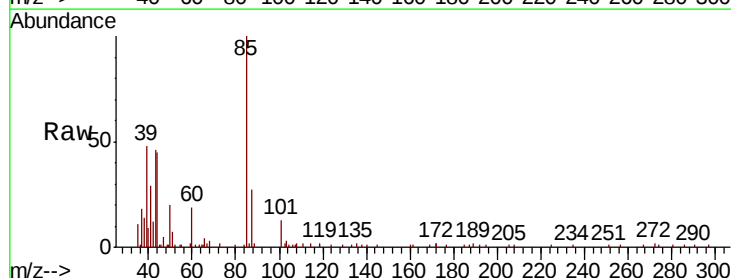
Delta R.T. 0.01 min

Lab File: VL036235.D

Acq: 13 Jan 2021 21:40

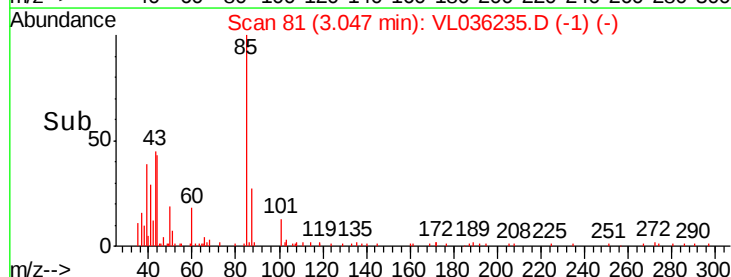
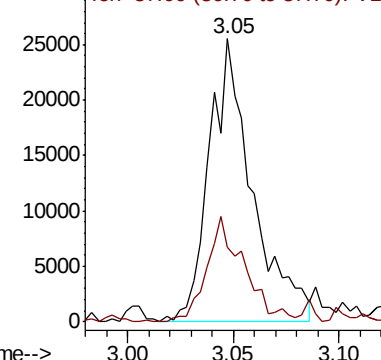
Tgt Ion: 85 Resp: 36252

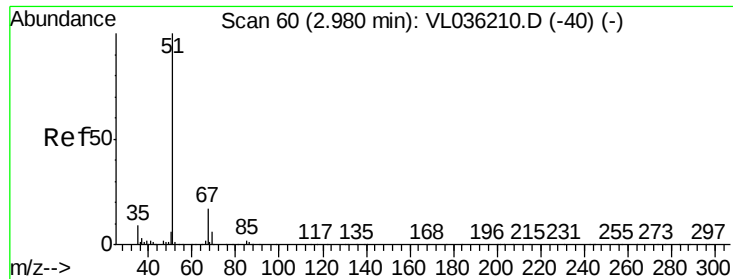
Ion	Ratio	Lower	Upper
85	100		
87	26.6	26.4	39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

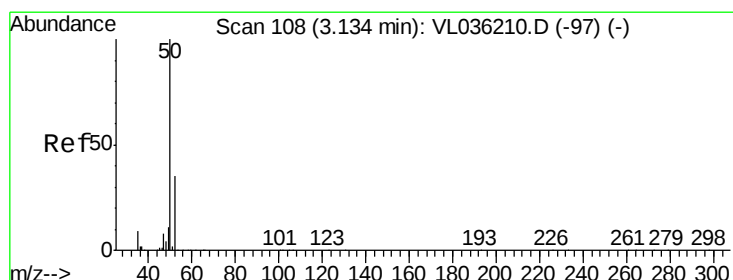
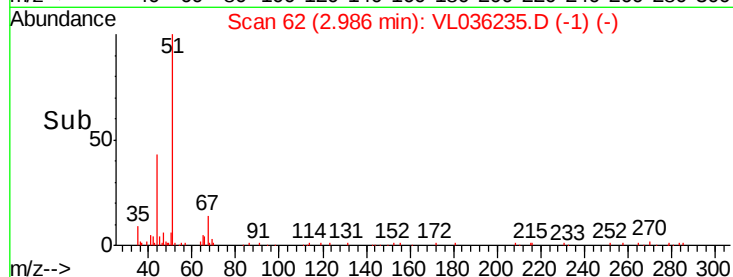
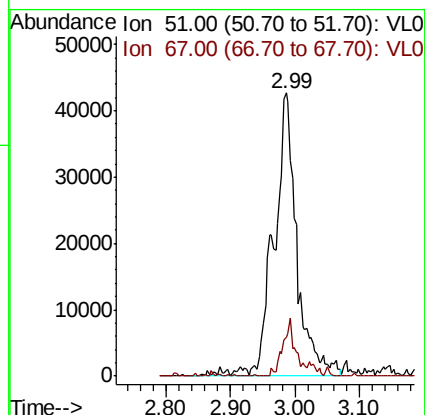
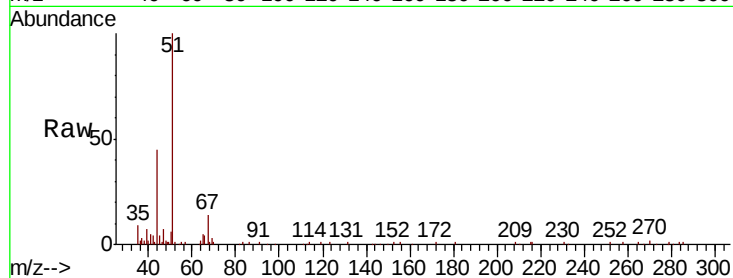




#3
Chlorodifluoromethane
Concen: 0.582 ppbv
RT: 2.99 min Scan# 62
Delta R.T. 0.01 min
Lab File: VL036235.D
Acq: 13 Jan 2021 21:40

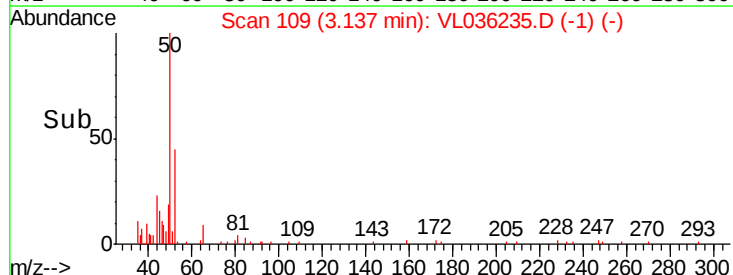
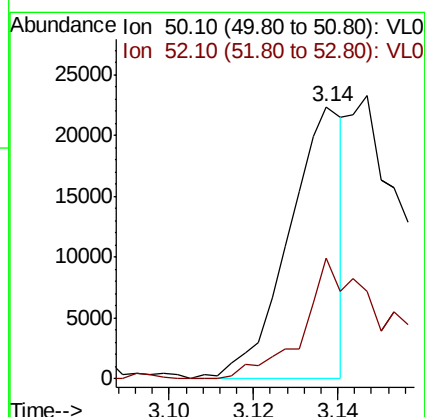
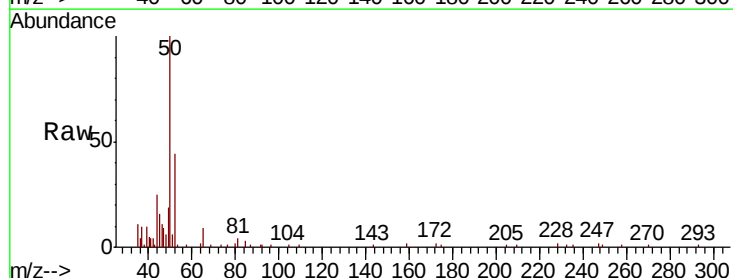
Instrument :
MSVOA_L
ClientSampleID :
IA1DUP

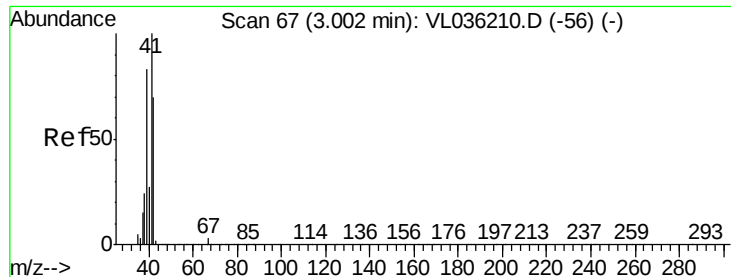
Tot Ion: 51 Resp: 106033
Ion Ratio Lower Upper
51 100
67 13.0 14.0 21.0#



#4
Chloromethane
Concen: 0.222 ppbv
RT: 3.14 min Scan# 109
Delta R.T. 0.00 min
Lab File: VL036235.D
Acq: 13 Jan 2021 21:40

Tgt Ion: 50 Resp: 20037
Ion Ratio Lower Upper
50 100
52 44.5 27.8 41.8#





#9

Propene

Concen: 1.633 ppbv

RT: 3.20 min Scan# 129

Delta R.T. 0.20 min

Lab File: VL036235.D

Acq: 13 Jan 2021 21:40

Instrument :

MSVOA_L

ClientSampleId :

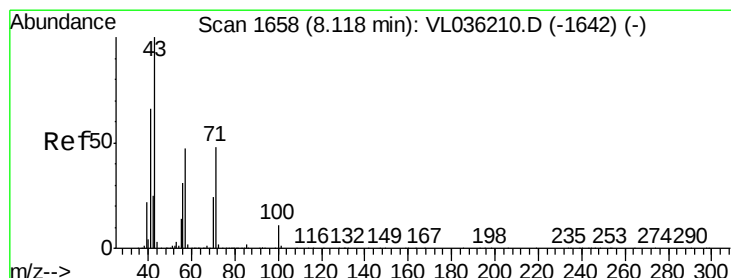
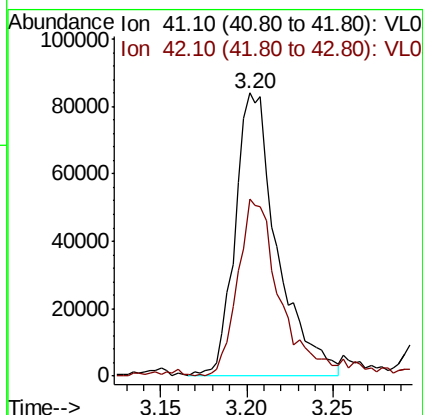
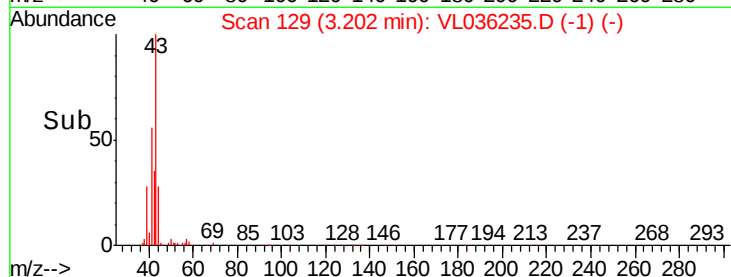
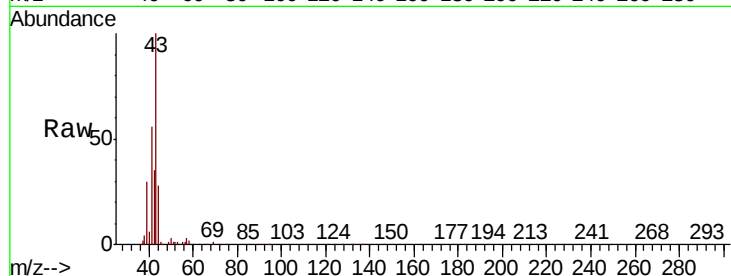
IA1DUP

Tot Ion: 41 Resp: 141835

Ion Ratio Lower Upper

41 100

42 65.6 57.1 85.7



#10

Heptane

Concen: 0.044 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. 0.01 min

Lab File: VL036235.D

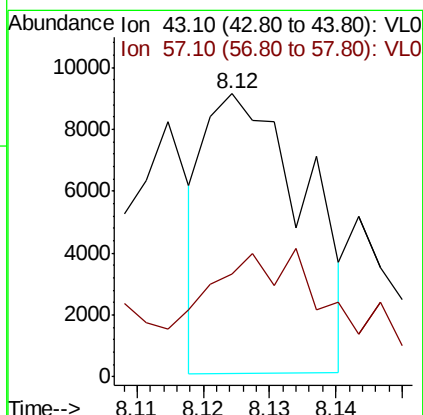
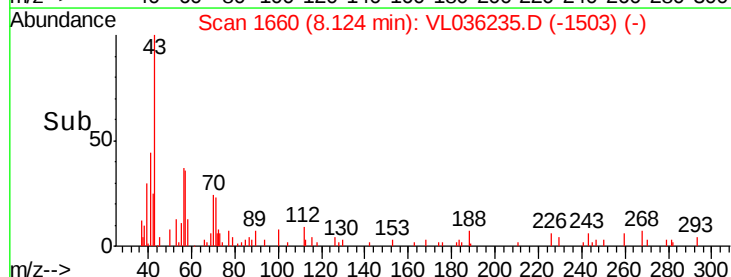
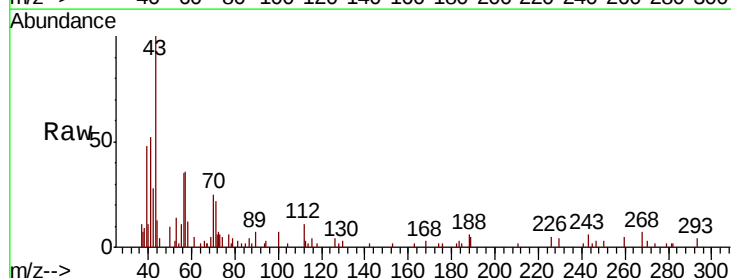
Acq: 13 Jan 2021 21:40

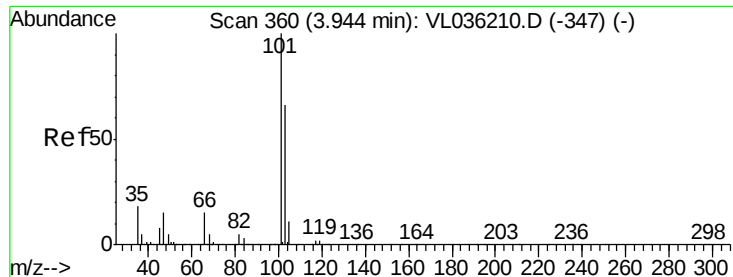
Tgt Ion: 43 Resp: 9436

Ion Ratio Lower Upper

43 100

57 101.5 38.1 57.1#

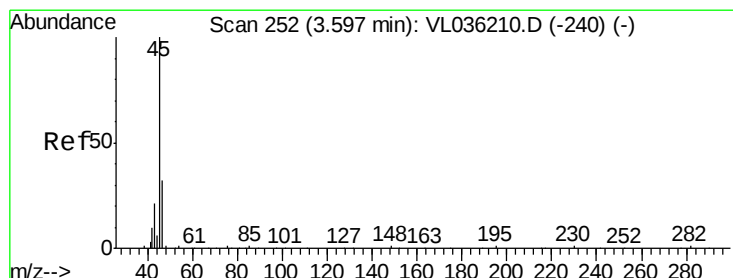
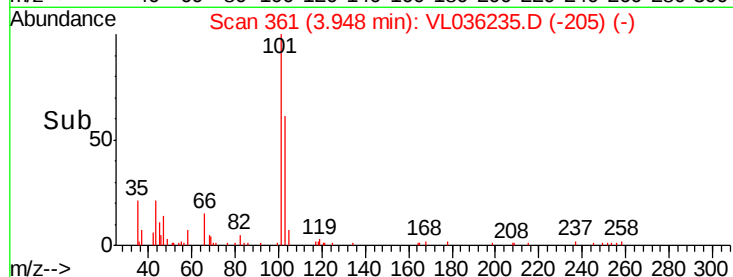
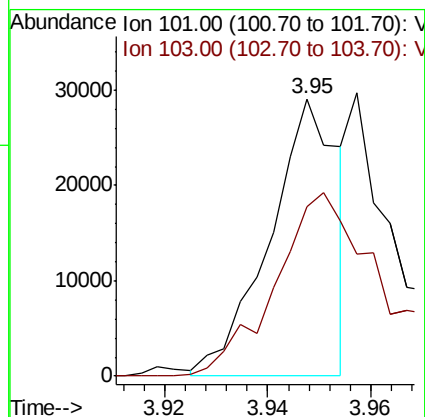
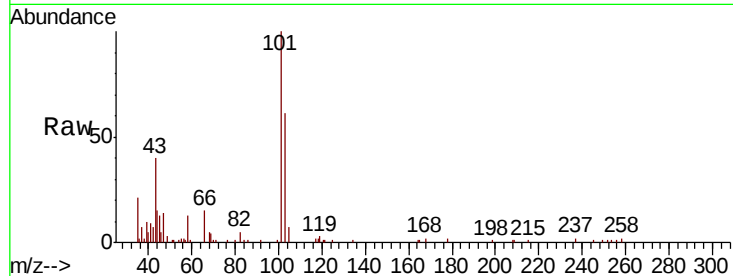




#11
Trichlorofluoromethane
Concen: 0.137 ppbv
RT: 3.95 min Scan# 361
Delta R.T. 0.00 min
Lab File: VL036235.D
Acq: 13 Jan 2021 21:40

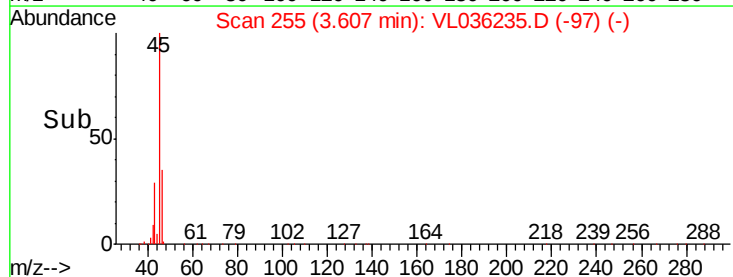
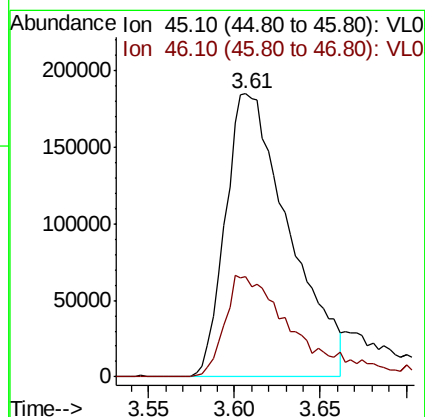
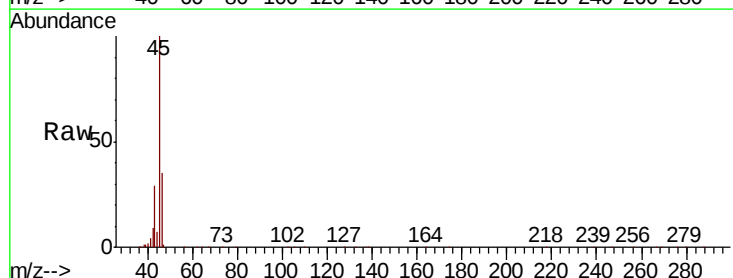
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

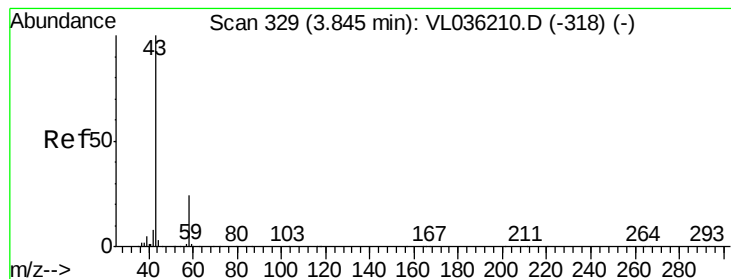
Tot Ion:101 Resp: 26834
Ion Ratio Lower Upper
101 100
103 61.8 52.6 78.8



#13
Ethanol
Concen: 26.047 ppbv
RT: 3.61 min Scan# 255
Delta R.T. 0.01 min
Lab File: VL036235.D
Acq: 13 Jan 2021 21:40

Tgt Ion: 45 Resp: 474880
Ion Ratio Lower Upper
45 100
46 41.2 19.2 77.0





#15

Acetone

Concen: 4.018 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.01 min

Lab File: VL036235.D

Acq: 13 Jan 2021 21:40

Instrument :

MSVOA_L

ClientSampleId :

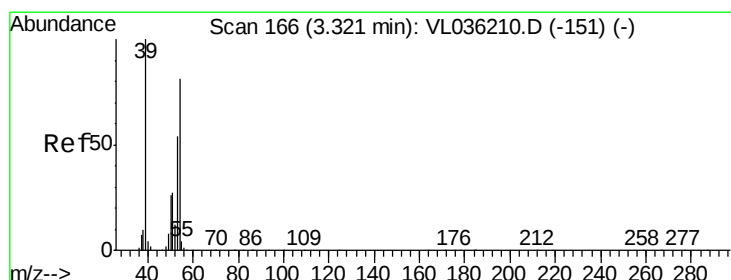
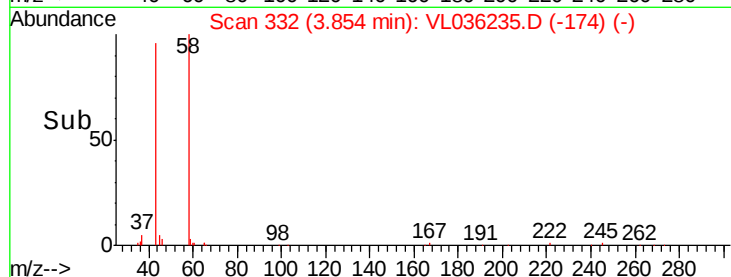
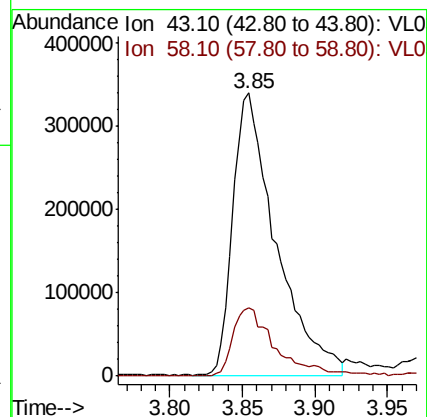
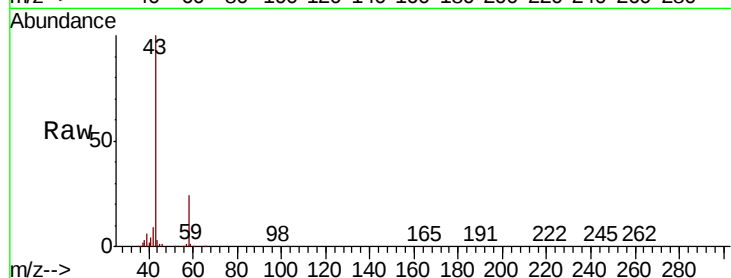
IA1DUP

Tot Ion: 43 Resp: 700895

Ion Ratio Lower Upper

43 100

58 24.1 20.9 31.3



#16

1,3-Butadiene

Concen: 0.073 ppbv

RT: 3.33 min Scan# 168

Delta R.T. 0.01 min

Lab File: VL036235.D

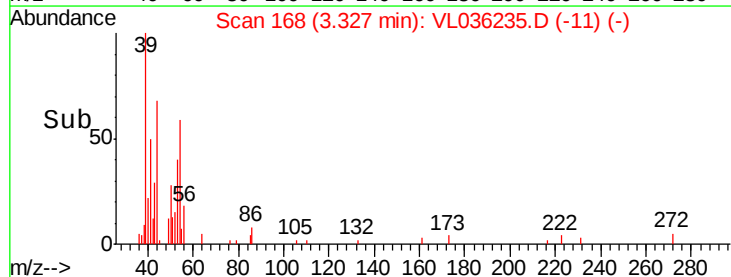
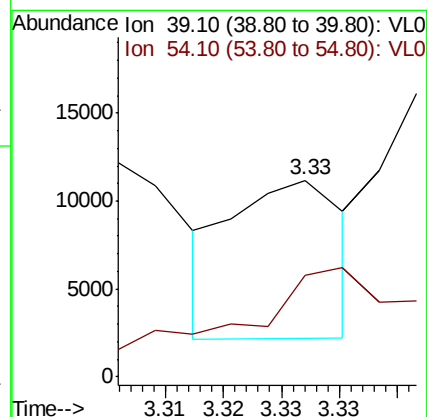
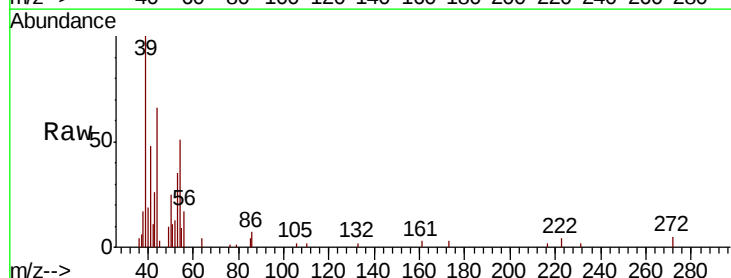
Acq: 13 Jan 2021 21:40

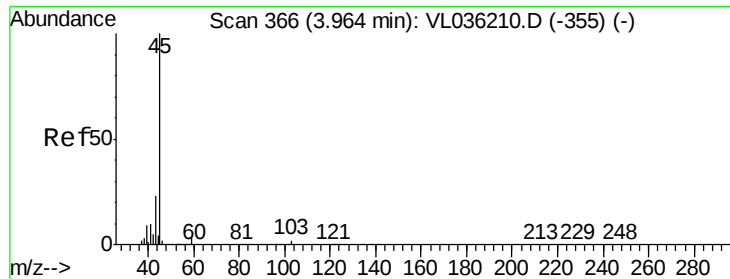
Tgt Ion: 39 Resp: 6043

Ion Ratio Lower Upper

39 100

54 207.7 62.5 93.7#





#19

Isopropyl Alcohol

Concen: 1.509 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL036235.D

Acq: 13 Jan 2021 21:40

Instrument :

MSVOA_L

ClientSampleId :

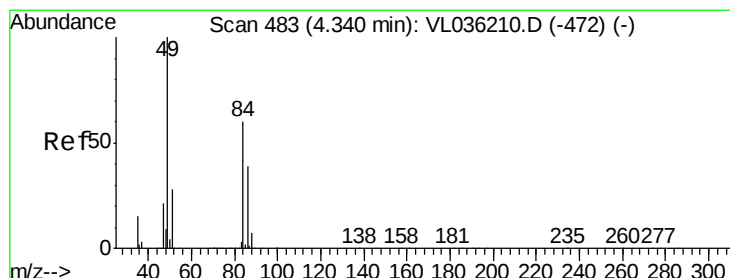
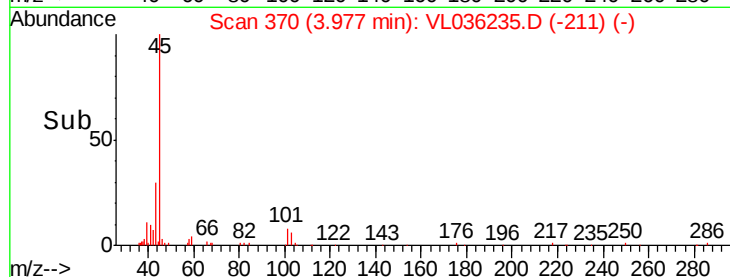
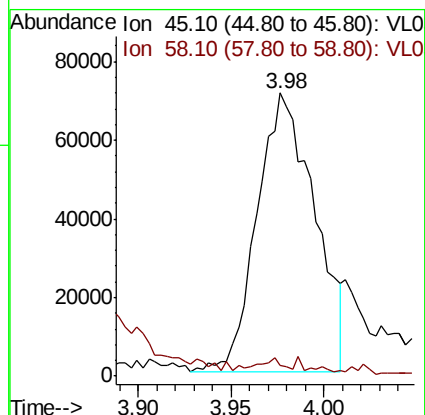
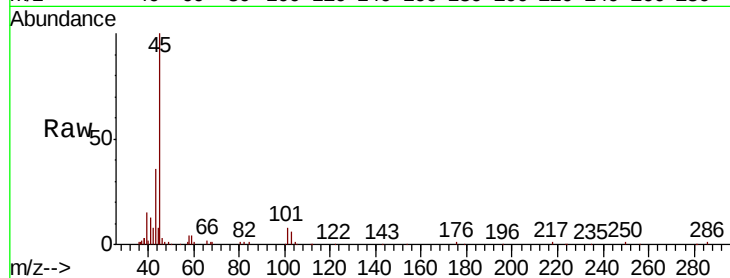
IA1DUP

Tot Ion: 45 Resp: 152105

Ion Ratio Lower Upper

45 100

58 5.5 1.9 2.9#



#20

Methylene Chloride

Concen: 6.958 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.01 min

Lab File: VL036235.D

Acq: 13 Jan 2021 21:40

Tgt Ion: 84 Resp: 371661

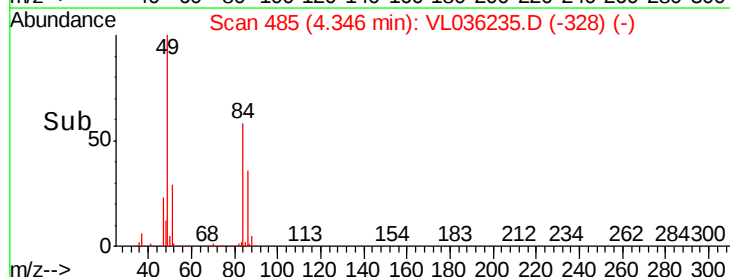
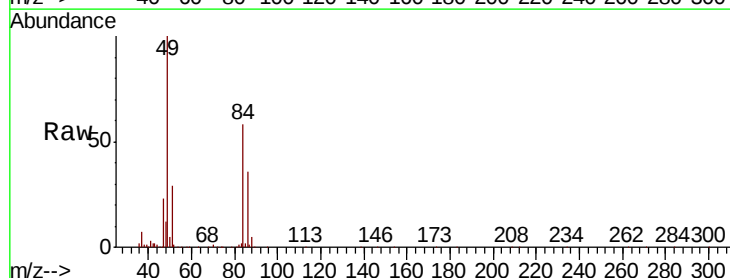
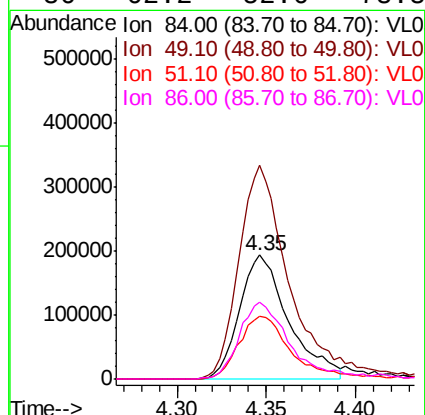
Ion Ratio Lower Upper

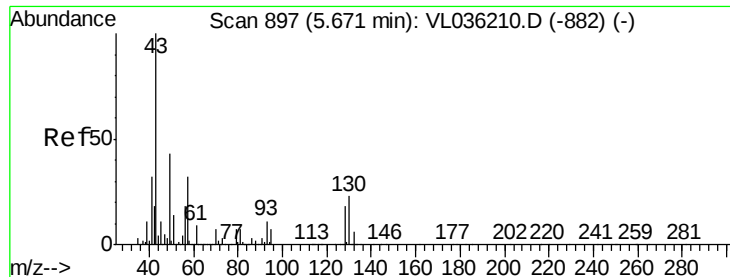
84 100

49 172.5 134.1 201.1

51 50.5 37.4 56.0

86 62.2 52.6 78.8

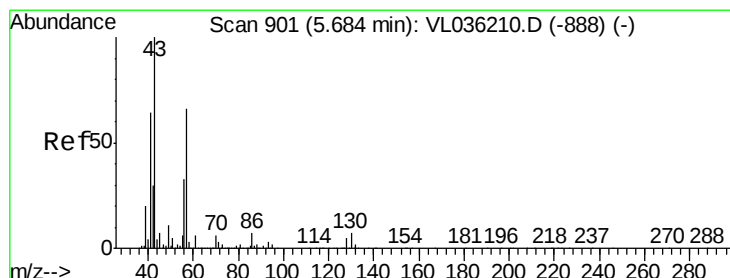
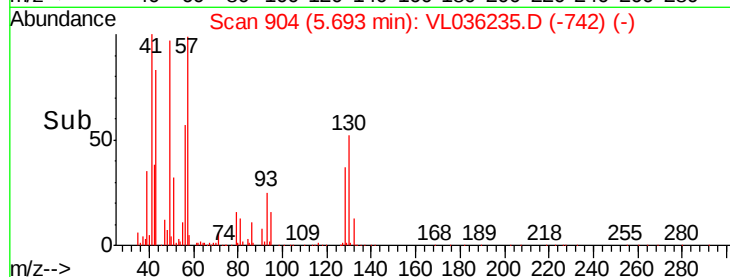
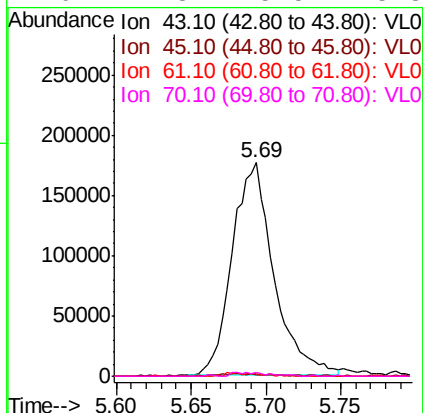
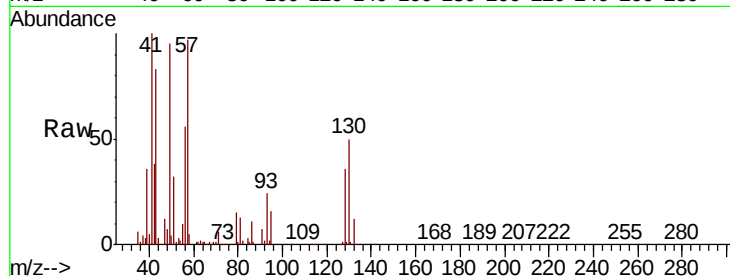




#25
Ethyl Acetate
Concen: 0.968 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.02 min
Lab File: VL036235.D
Acq: 13 Jan 2021 21:40

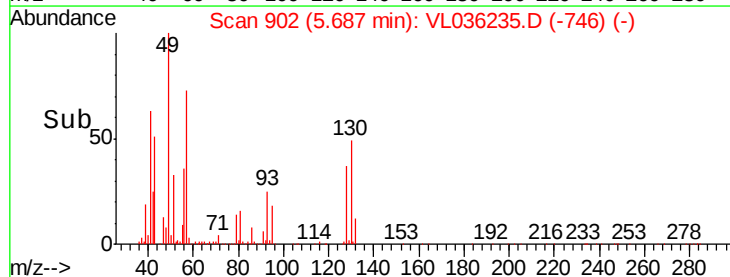
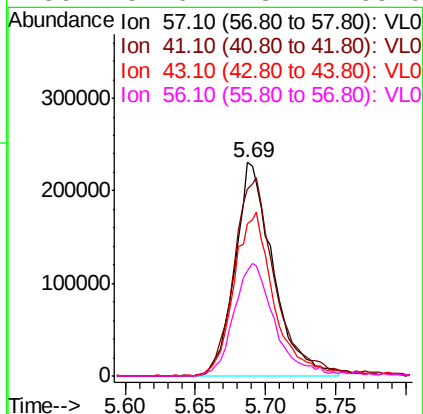
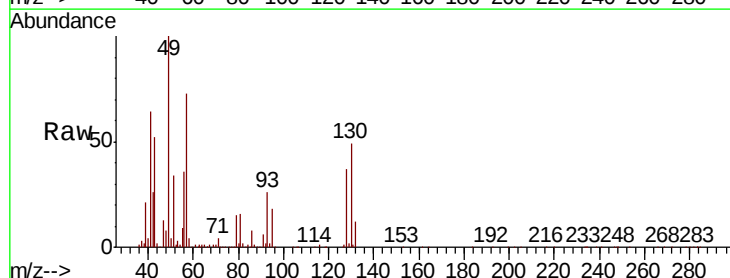
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

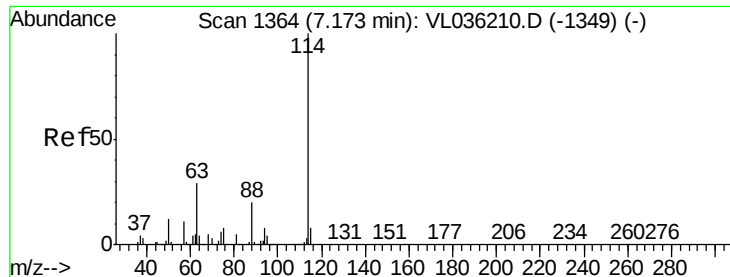
Tot Ion:	43	Resp:	343976
Ion	Ratio	Lower	Upper
43	100		
45	1.6	8.3	12.5#
61	1.5	7.4	11.2#
70	1.8	5.5	8.3#



#26
Hexane
Concen: 2.933 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL036235.D
Acq: 13 Jan 2021 21:40

Tgt Ion:	57	Resp:	435608
Ion	Ratio	Lower	Upper
57	100		
41	102.9	83.0	124.6
43	82.3	202.4	303.6#
56	57.6	43.4	65.0

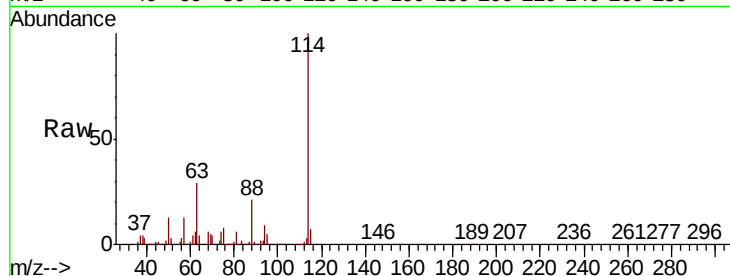




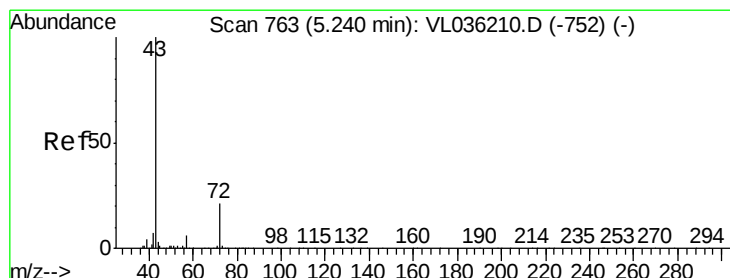
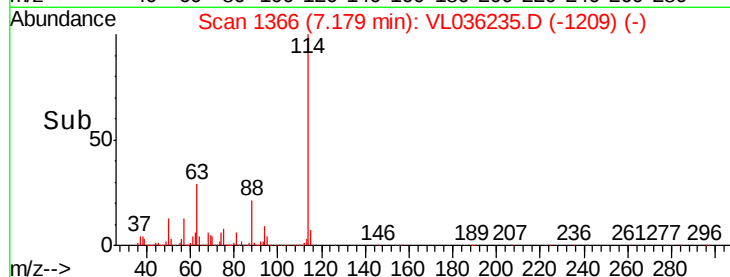
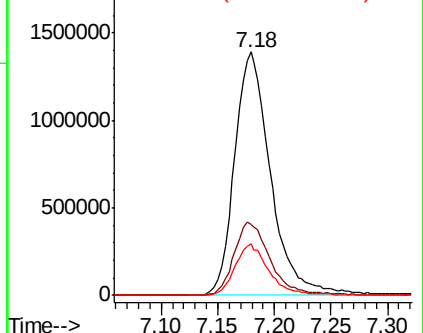
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.01 min
 Lab File: VL036235.D
 Acq: 13 Jan 2021 21:40

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Tot Ion:114 Resp: 3064929
 Ion Ratio Lower Upper
 114 100
 63 30.8 24.7 37.1
 88 20.4 16.6 24.8

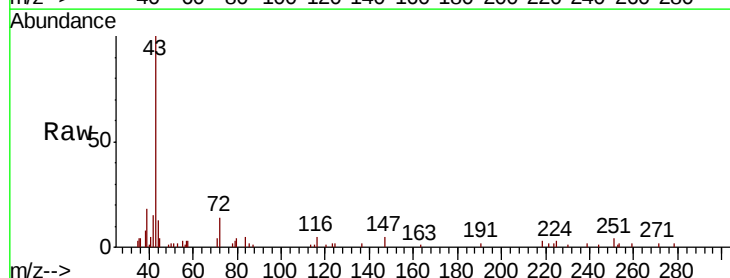


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

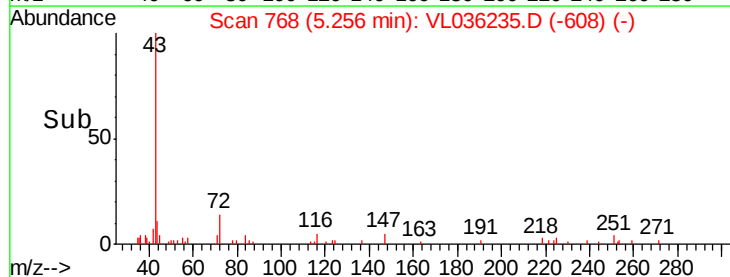
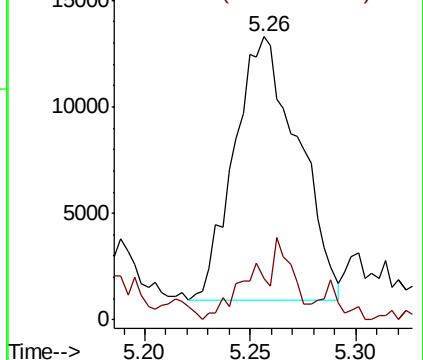


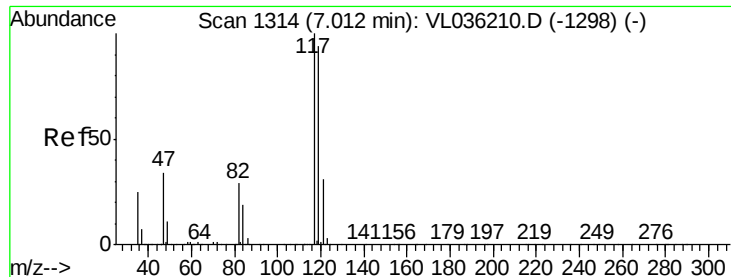
#34
 2-Butanone
 Concen: 0.133 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.02 min
 Lab File: VL036235.D
 Acq: 13 Jan 2021 21:40

Tgt Ion: 43 Resp: 26023
 Ion Ratio Lower Upper
 43 100
 72 24.0 16.1 24.1



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

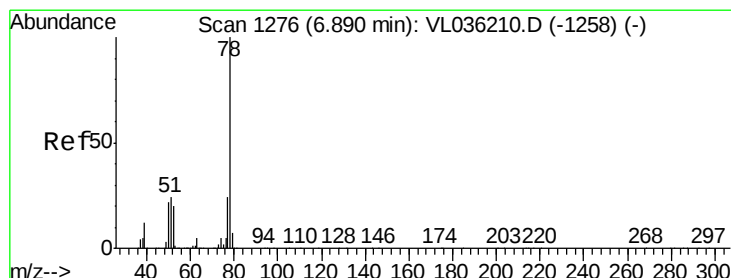
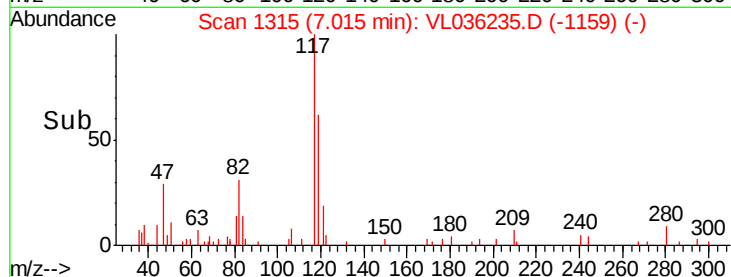
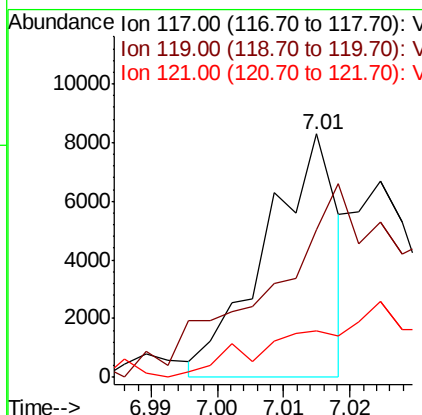
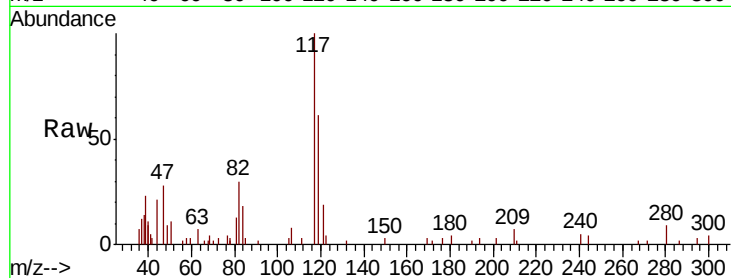




#35
Carbon Tetrachloride
Concen: 0.032 ppbv
RT: 7.01 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VL036235.D
Acq: 13 Jan 2021 21:40

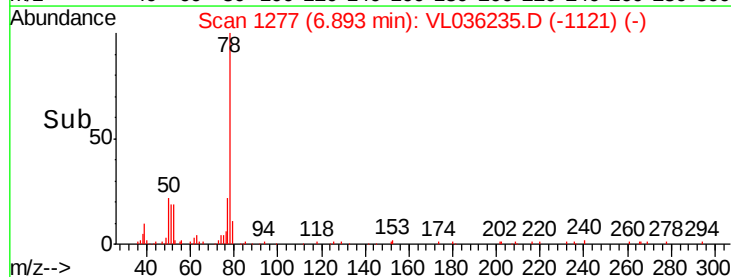
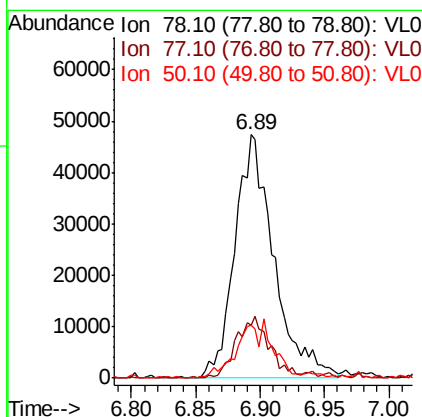
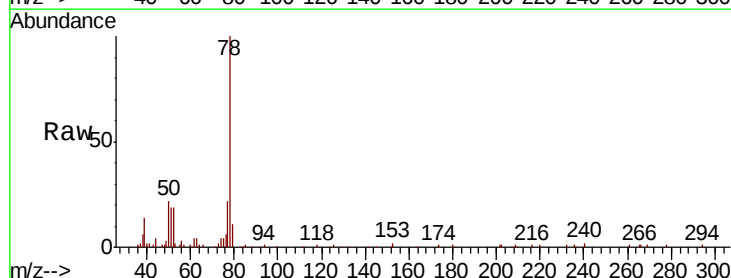
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

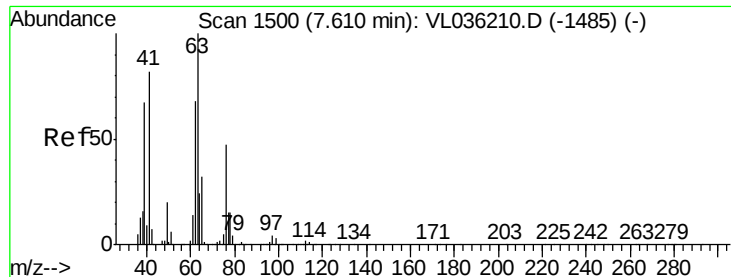
Tot Ion:117 Resp: 6225
Ion Ratio Lower Upper
117 100
119 39.9 74.9 112.3#
121 17.8 25.0 37.6#



#36
Benzene
Concen: 0.355 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. 0.00 min
Lab File: VL036235.D
Acq: 13 Jan 2021 21:40

Tgt Ion: 78 Resp: 99578
Ion Ratio Lower Upper
78 100
77 21.9 19.4 29.0
50 21.9 17.4 26.2

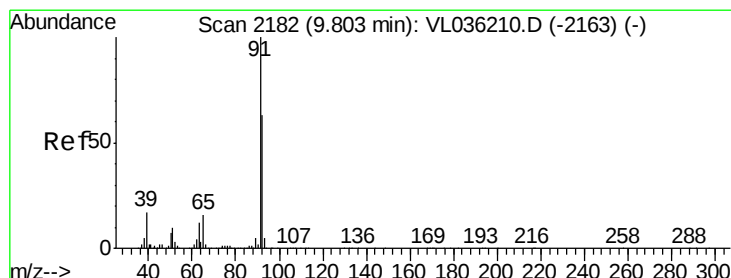
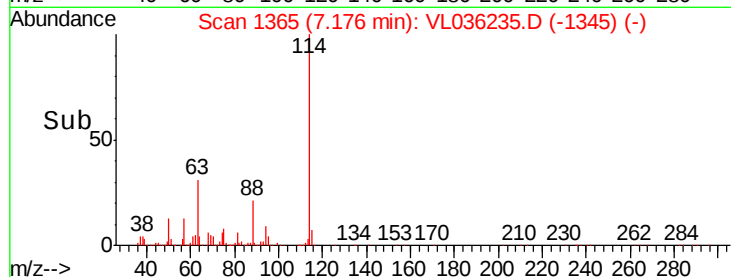
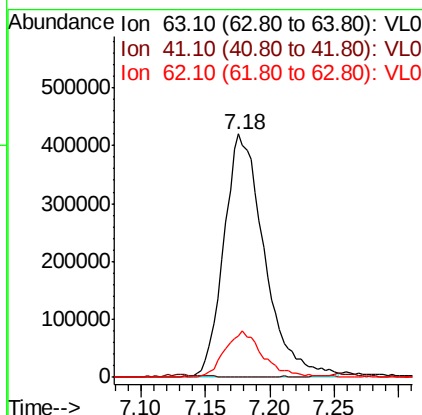
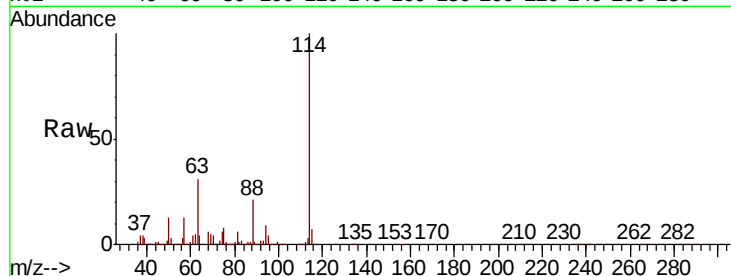




#39
 1,2-Dichloropropane
 Concen: 8.028 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.43 min
 Lab File: VL036235.D
 Acq: 13 Jan 2021 21:40

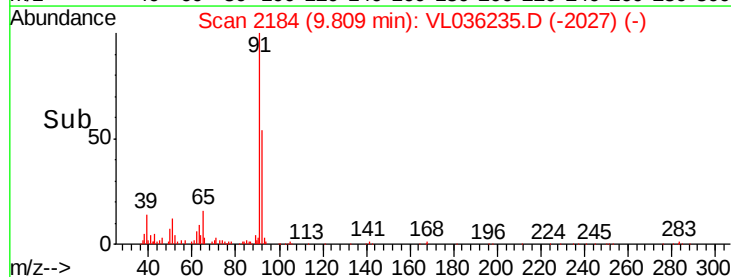
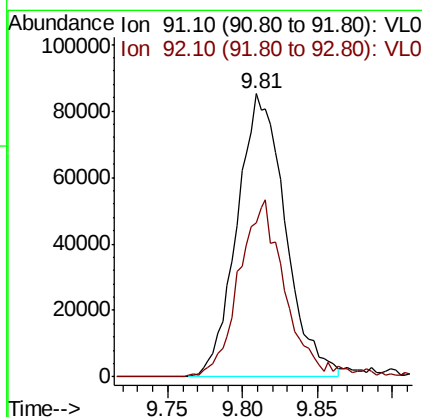
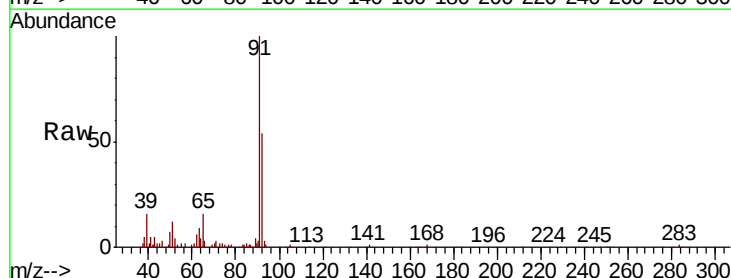
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

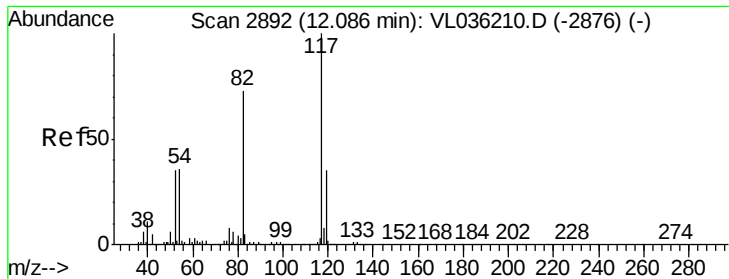
Tot Ion: 63 Resp: 915401
 Ion Ratio Lower Upper
 63 100
 41 0.0 66.1 99.1#
 62 17.0 54.8 82.2#



#53
 Toluene
 Concen: 0.615 ppbv
 RT: 9.81 min Scan# 2184
 Delta R.T. 0.01 min
 Lab File: VL036235.D
 Acq: 13 Jan 2021 21:40

Tgt Ion: 91 Resp: 191296
 Ion Ratio Lower Upper
 91 100
 92 60.1 48.5 72.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. 0.01 min

Lab File: VL036235.D

Acq: 13 Jan 2021 21:40

Instrument :

MSVOA_L

ClientSampled :

IA1DUP

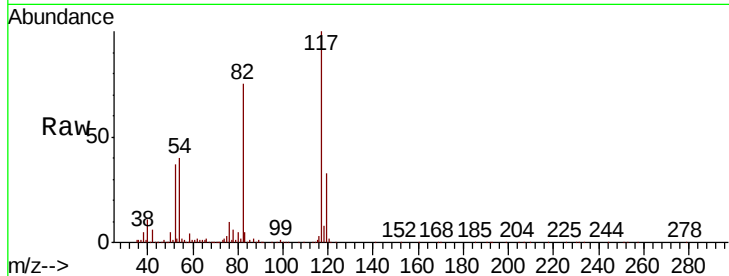
Tot Ion:117 Resp: 2646465

Ion Ratio Lower Upper

117 100

82 76.7 59.7 89.5

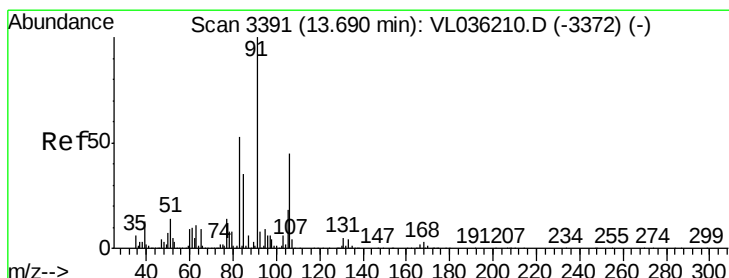
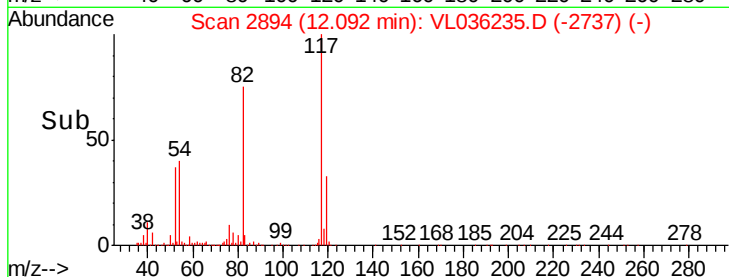
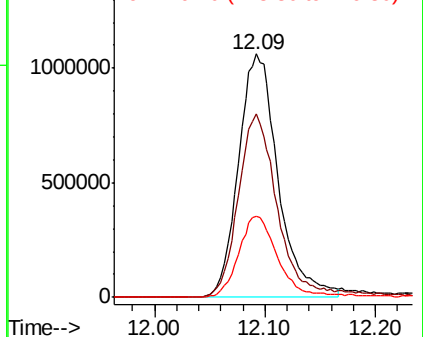
119 34.1 28.6 43.0



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#60

o-Xylene

Concen: 0.042 ppbv

RT: 13.70 min Scan# 3393

Delta R.T. 0.01 min

Lab File: VL036235.D

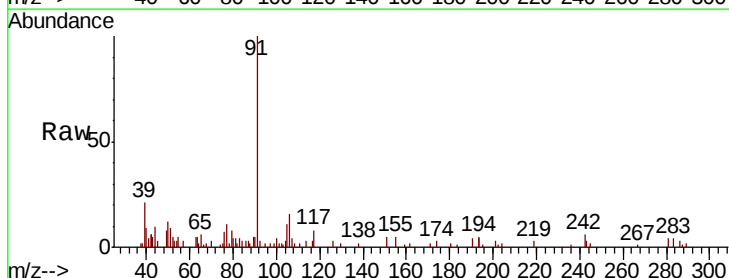
Acq: 13 Jan 2021 21:40

Tgt Ion: 91 Resp: 13567

Ion Ratio Lower Upper

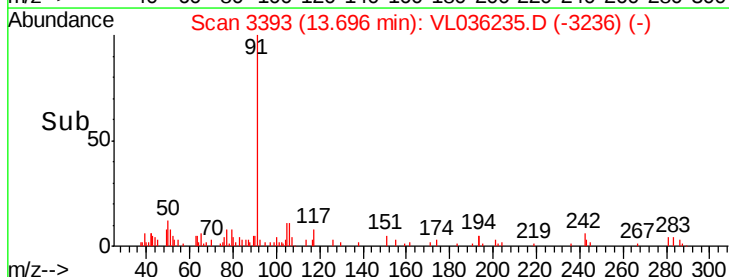
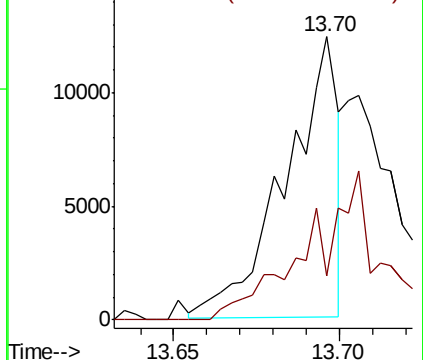
91 100

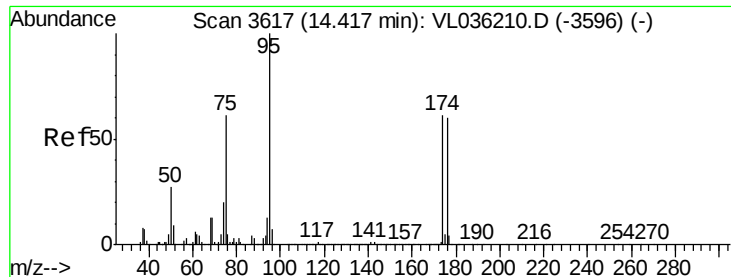
106 0.0 21.9 65.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.105 ppbv

RT: 14.43 min Scan# 3620

Delta R.T. 0.01 min

Lab File: VL036235.D

Acq: 13 Jan 2021 21:40

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

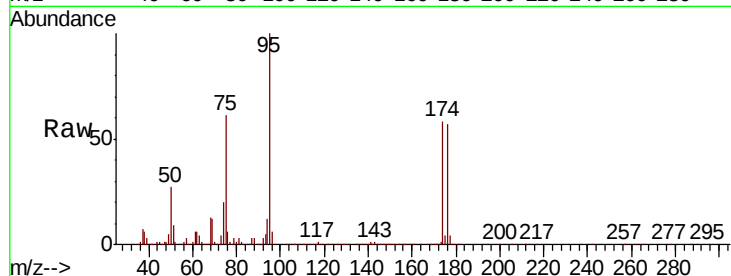
Tot Ion: 95 Resp: 2213576

Ion Ratio Lower Upper

95 100

174 59.3 49.4 74.0

175 4.4 3.8 5.8



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

