

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036237.D
 Acq On : 13 Jan 2021 23:04
 Operator : SY/AP
 Sample : M1070-02
 Misc : 400ml/MSVOA L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Quant Time: Jan 14 00:34:07 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	1496123	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3074192	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2644515	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2223749	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

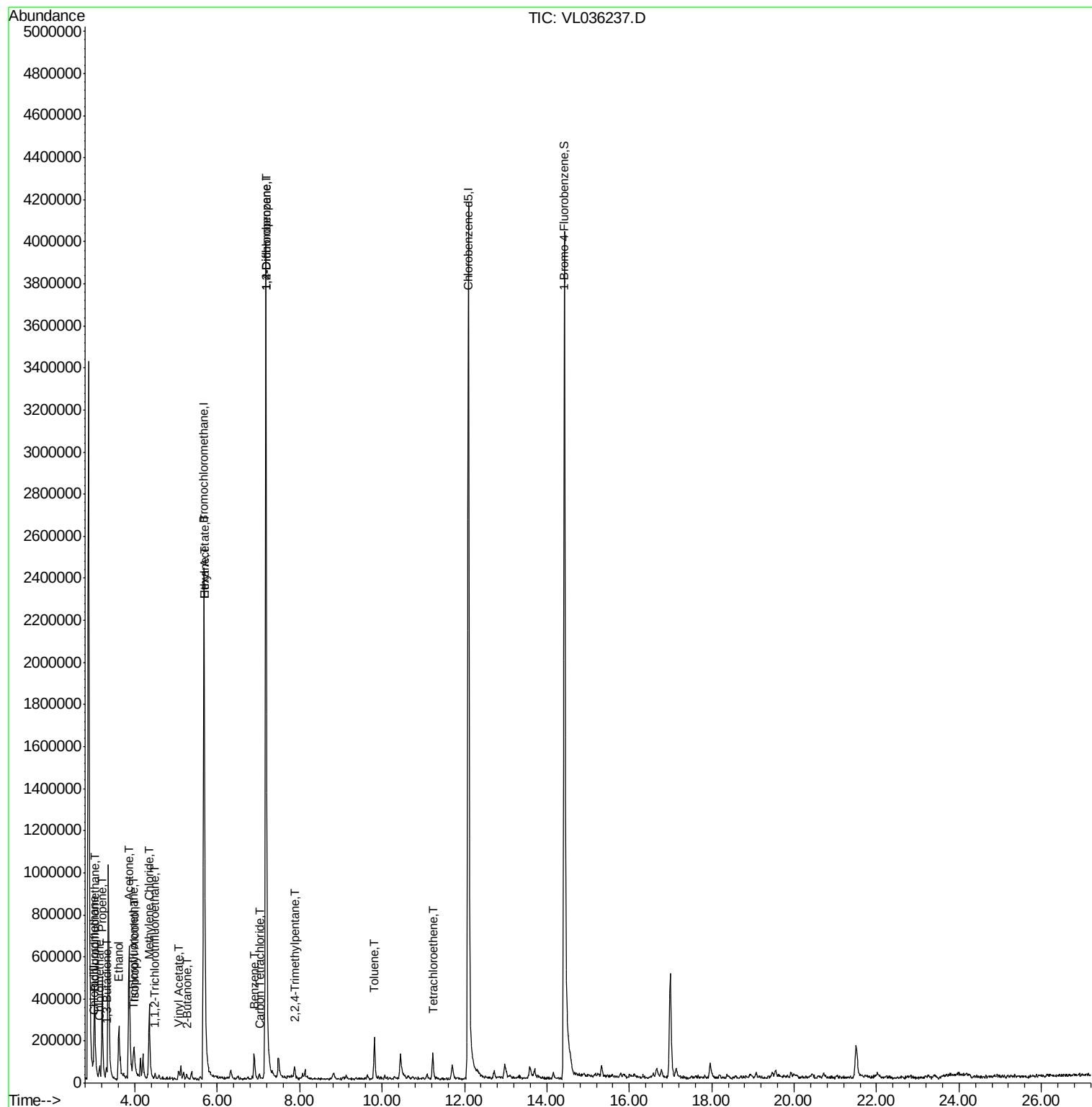
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	39437	0.194	ppbv #	85
3) Chlorodifluoromethane	2.99	51	101478	0.547	ppbv #	89
4) Chloromethane	3.14	50	46832	0.510	ppbv #	87
9) Propene	3.20	41	146557	1.657	ppbv	94
11) Trichlorofluoromethane	3.95	101	43063	0.217	ppbv	90
12) 1,1,2-Trichlorotrifluoroet	4.48	101	6896	0.055	ppbv	86
13) Ethanol	3.61	45	229808	12.374	ppbv	66
15) Acetone	3.85	43	894080	5.032	ppbv	95
16) 1,3-Butadiene	3.32	39	4278	0.051	ppbv #	1
19) Isopropyl Alcohol	3.98	45	166476	1.621	ppbv #	94
20) Methylene Chloride	4.34	84	55151	1.014	ppbv	92
23) Vinyl Acetate	5.07	43	12336	0.055	ppbv #	37
25) Ethyl Acetate	5.69	43	143551	0.397	ppbv #	87
26) Hexane	5.69	57	92518	0.611	ppbv #	42
34) 2-Butanone	5.26	43	17638	0.090	ppbv #	39
35) Carbon Tetrachloride	7.02	117	8084	0.042	ppbv	96
36) Benzene	6.89	78	94344	0.335	ppbv	96
39) 1,2-Dichloropropane	7.18	63	926189	8.098	ppbv #	21
44) 2,2,4-Trimethylpentane	7.87	57	26606	0.051	ppbv #	41
52) Tetrachloroethene	11.25	164	5570	0.054	ppbv	93
53) Toluene	9.82	91	128375	0.412	ppbv	96

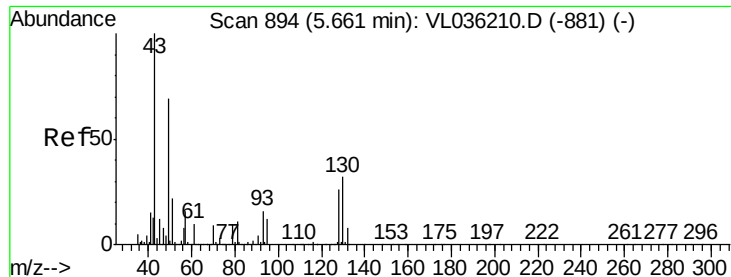
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VL036237.D

Acq: 13 Jan 2021 23:04

Instrument :

MSVOA_L

ClientSampleId :

IA2

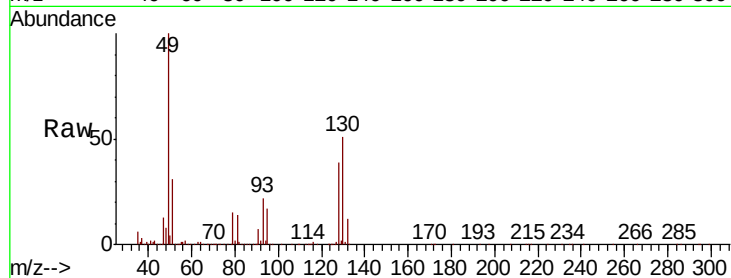
Tot Ion: 49 Resp: 1496123

Ion Ratio Lower Upper

49 100

128 39.3 20.1 60.2

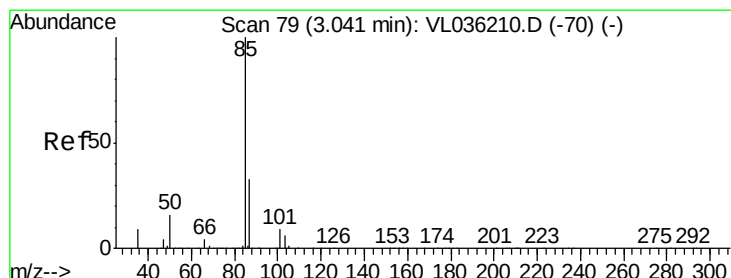
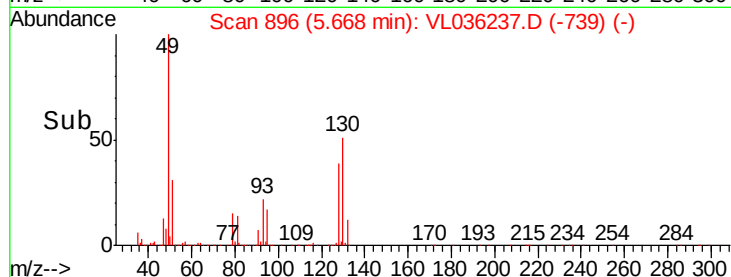
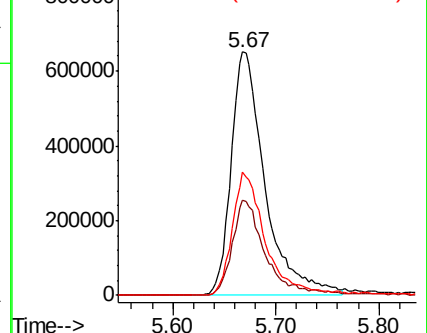
130 50.9 25.3 75.9



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: 0.194 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL036237.D

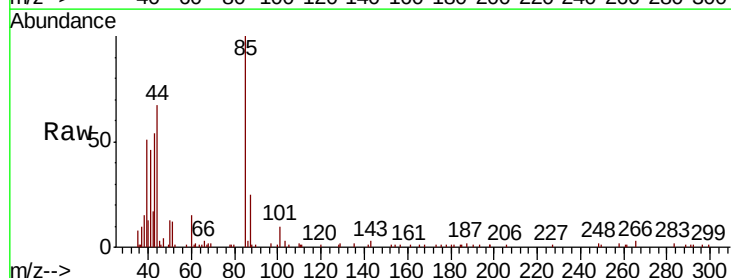
Acq: 13 Jan 2021 23:04

Tgt Ion: 85 Resp: 39437

Ion Ratio Lower Upper

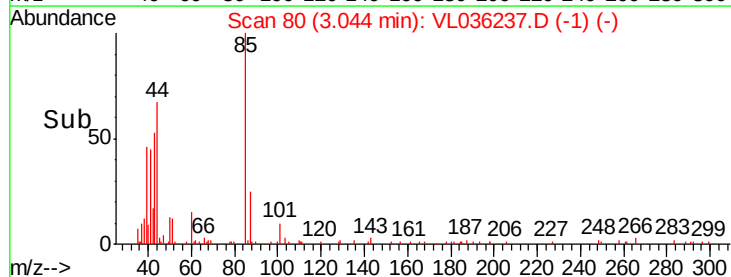
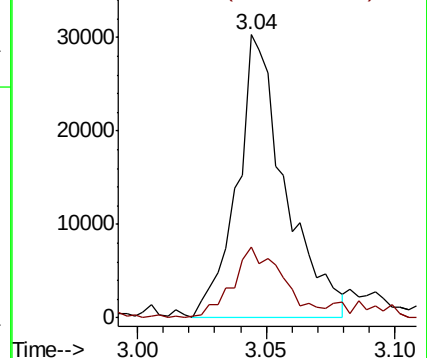
85 100

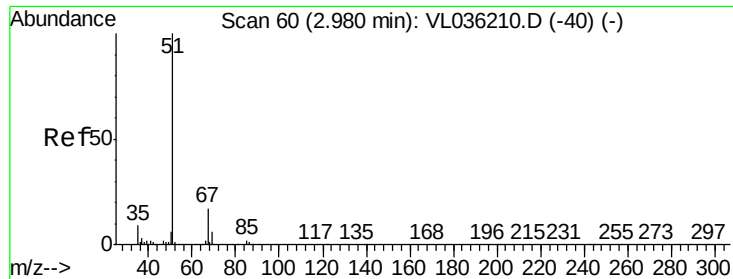
87 24.3 26.4 39.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

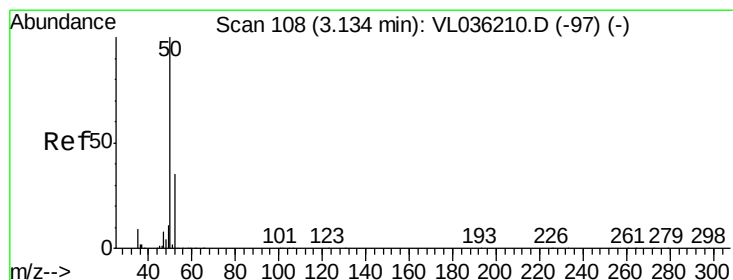
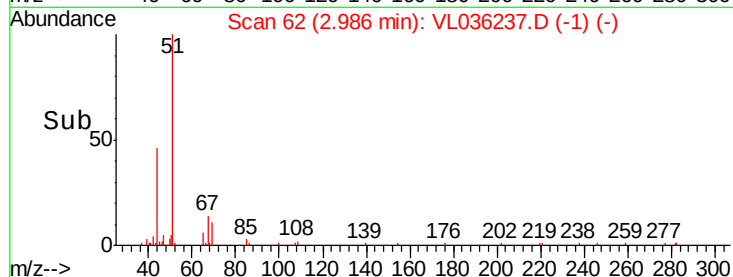
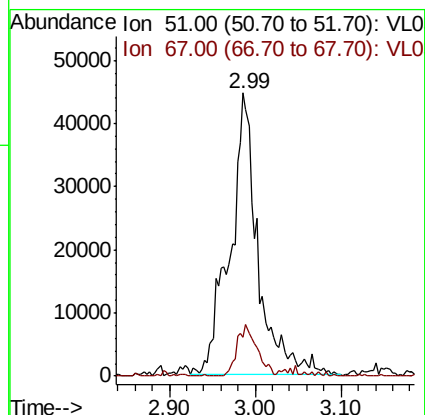
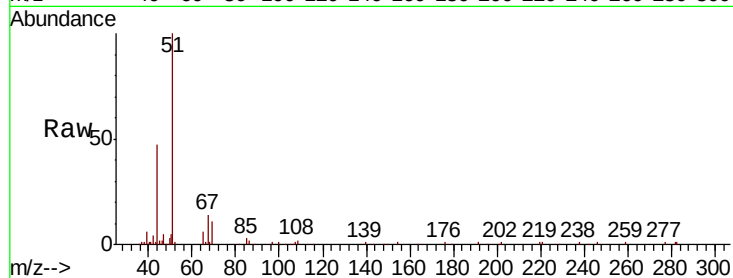




#3
Chlorodifluoromethane
Concen: 0.547 ppbv
RT: 2.99 min Scan# 62
Delta R.T. 0.01 min
Lab File: VL036237.D
Acq: 13 Jan 2021 23:04

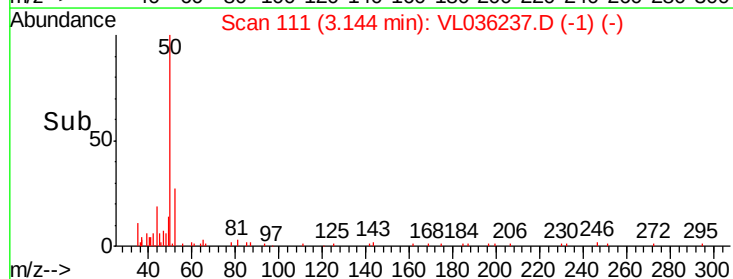
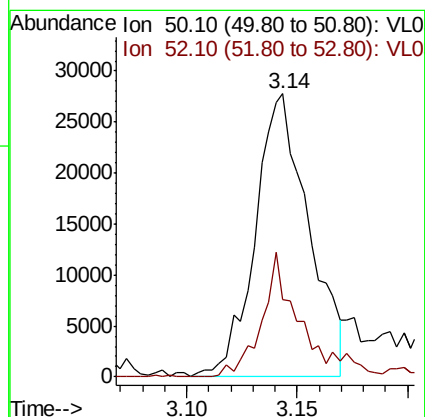
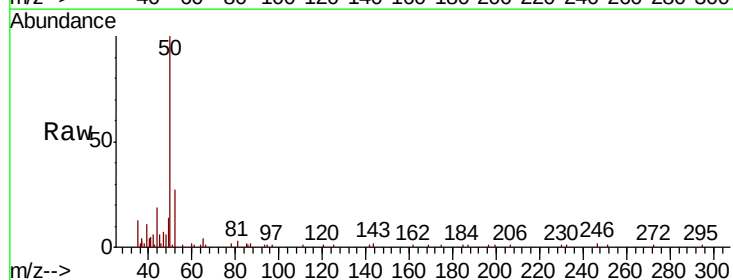
Instrument :
MSVOA_L
ClientSampleId :
IA2

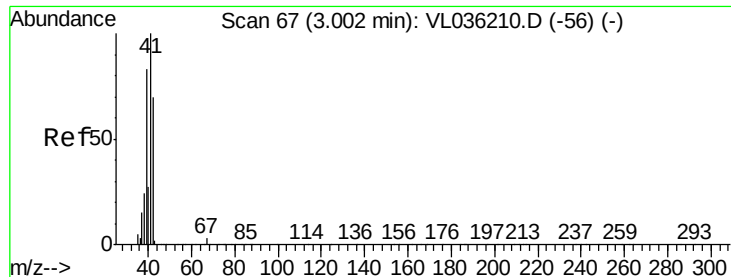
Tot Ion: 51 Resp: 101478
Ion Ratio Lower Upper
51 100
67 12.8 14.0 21.0#



#4
Chloromethane
Concen: 0.510 ppbv
RT: 3.14 min Scan# 111
Delta R.T. 0.01 min
Lab File: VL036237.D
Acq: 13 Jan 2021 23:04

Tgt Ion: 50 Resp: 46832
Ion Ratio Lower Upper
50 100
52 27.3 27.8 41.8#





#9

Propene

Concen: 1.657 ppbv

RT: 3.20 min Scan# 130

Delta R.T. 0.20 min

Lab File: VL036237.D

Acq: 13 Jan 2021 23:04

Instrument :

MSVOA_L

ClientSampleId :

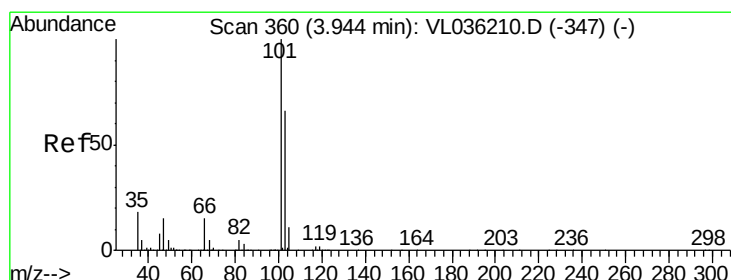
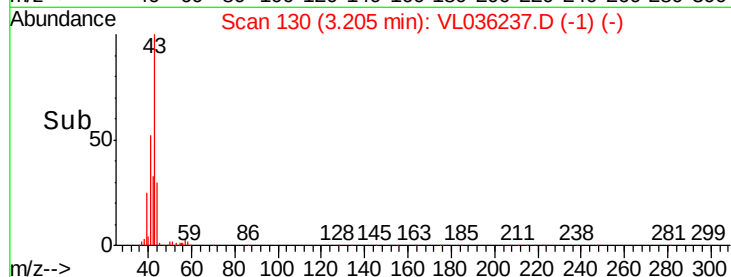
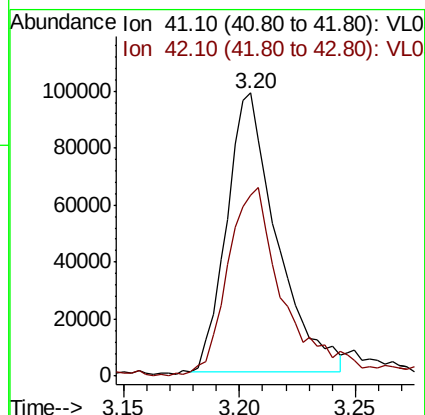
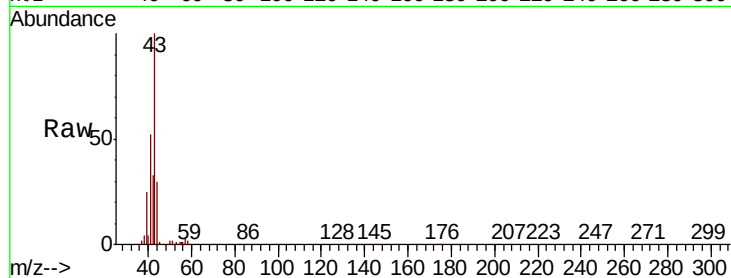
IA2

Tot Ion: 41 Resp: 146557

Ion Ratio Lower Upper

41 100

42 76.6 57.1 85.7



#11

Trichlorofluoromethane

Concen: 0.217 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.01 min

Lab File: VL036237.D

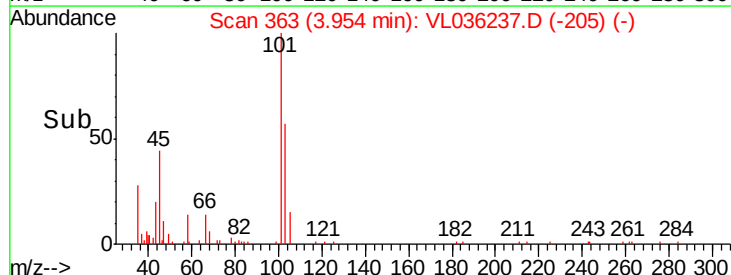
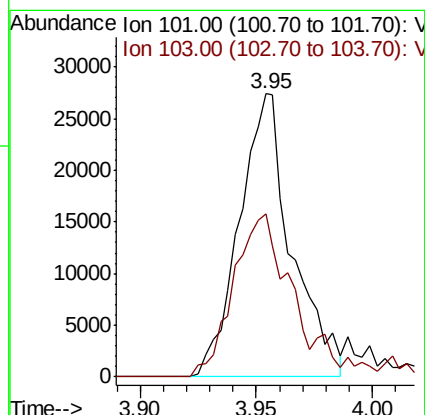
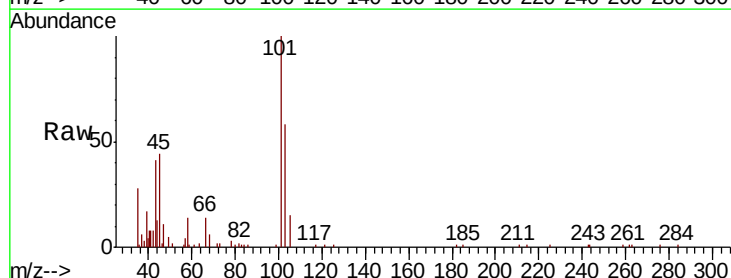
Acq: 13 Jan 2021 23:04

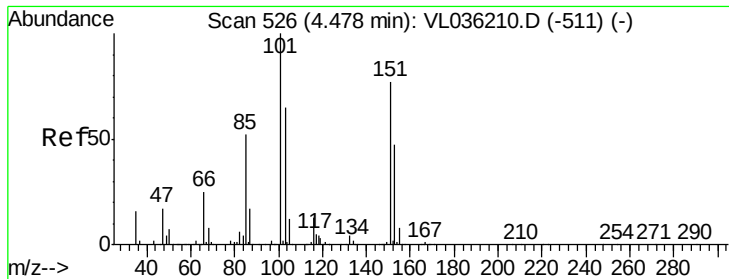
Tgt Ion: 101 Resp: 43063

Ion Ratio Lower Upper

101 100

103 57.5 52.6 78.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.055 ppbv

RT: 4.48 min Scan# 528

Delta R.T. 0.01 min

Lab File: VL036237.D

Acq: 13 Jan 2021 23:04

Instrument :

MSVOA_L

ClientSampleId :

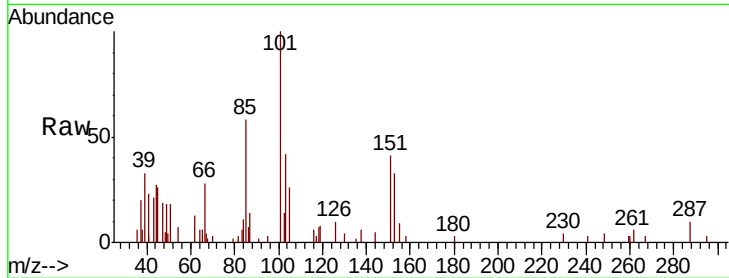
IA2

Tot Ion:101 Resp: 6896

Ion Ratio Lower Upper

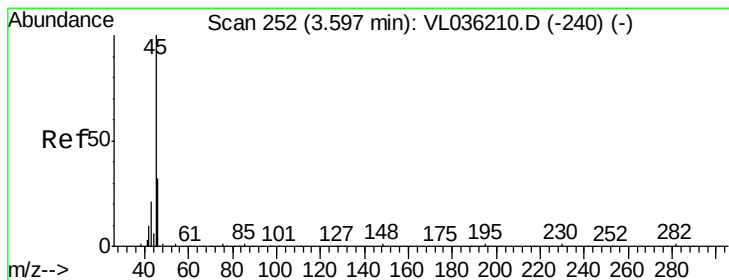
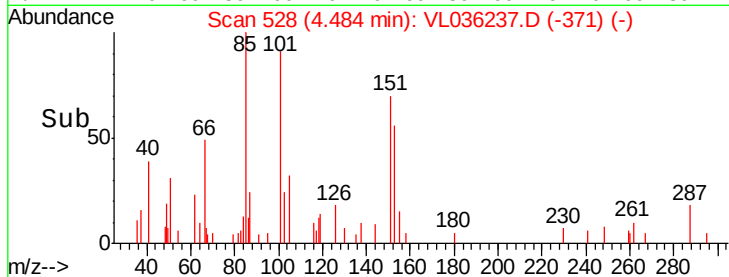
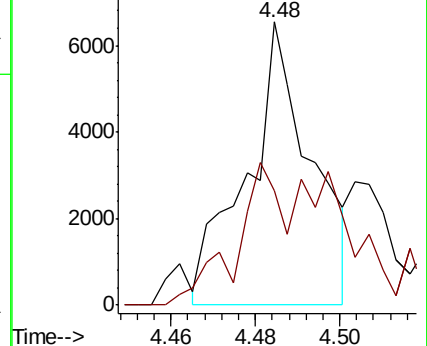
101 100

151 86.8 59.8 89.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 12.374 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.01 min

Lab File: VL036237.D

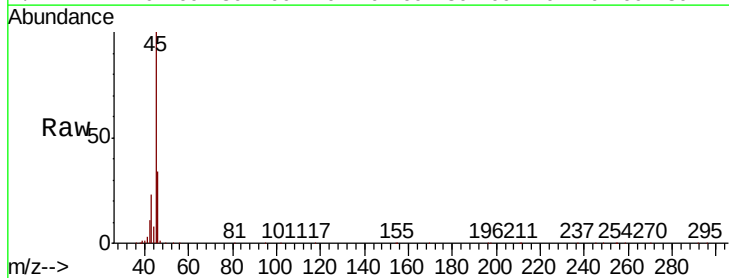
Acq: 13 Jan 2021 23:04

Tgt Ion: 45 Resp: 229808

Ion Ratio Lower Upper

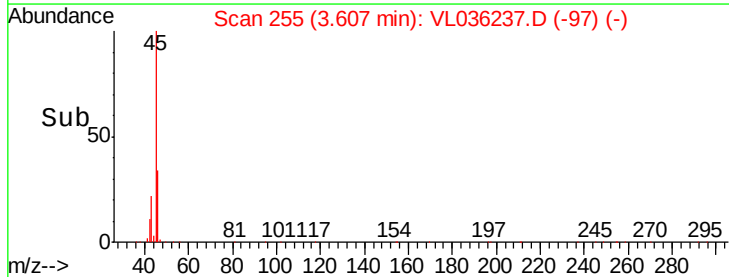
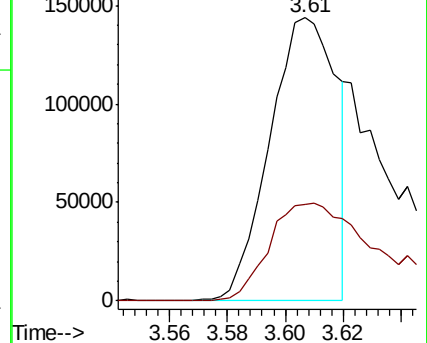
45 100

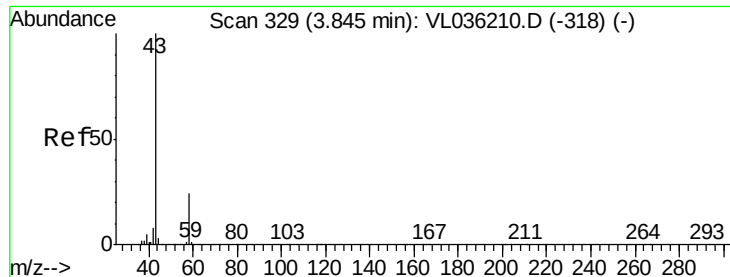
46 71.1 19.2 77.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

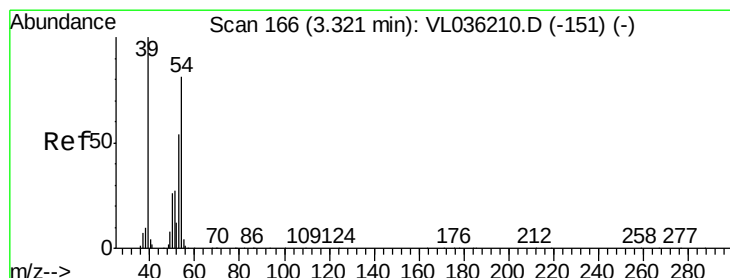
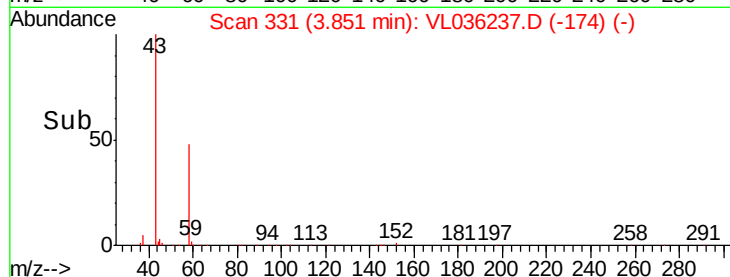
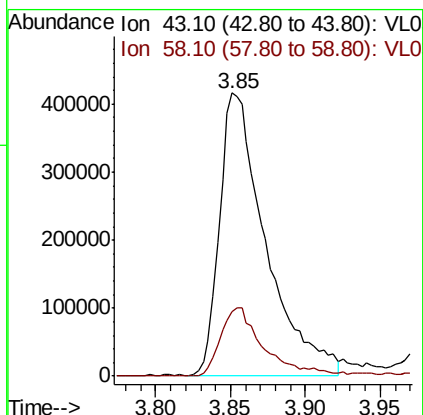
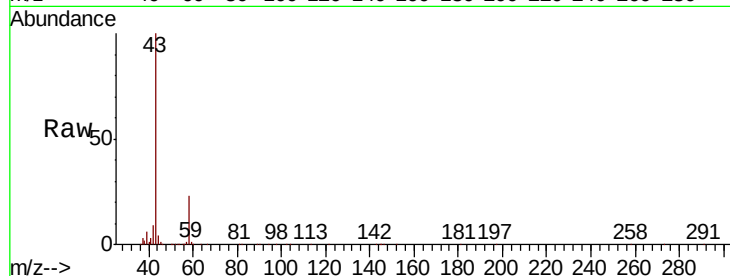




#15
Acetone
Concen: 5.032 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL036237.D
Acq: 13 Jan 2021 23:04

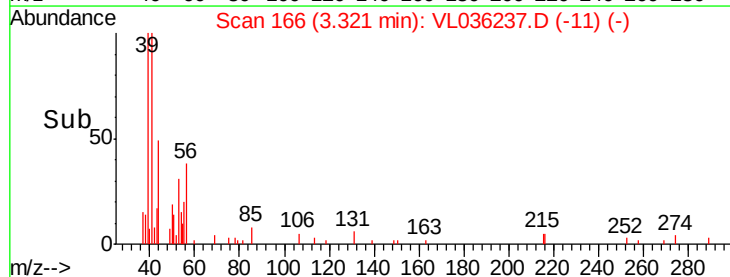
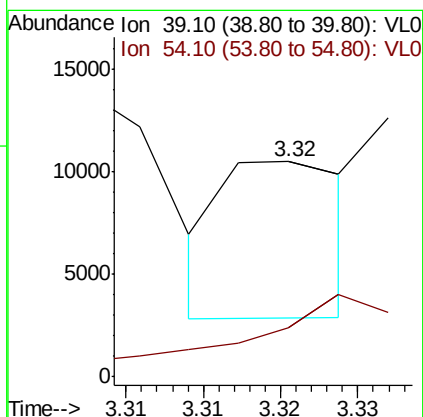
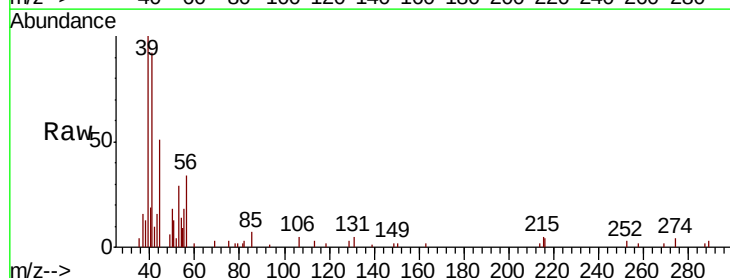
Instrument :
MSVOA_L
ClientSampleId :
IA2

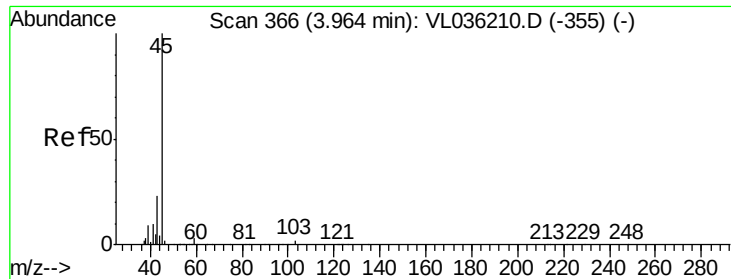
Tot Ion: 43 Resp: 894080
Ion Ratio Lower Upper
43 100
58 23.4 20.9 31.3



#16
1,3-Butadiene
Concen: 0.051 ppbv
RT: 3.32 min Scan# 166
Delta R.T. -0.00 min
Lab File: VL036237.D
Acq: 13 Jan 2021 23:04

Tgt Ion: 39 Resp: 4278
Ion Ratio Lower Upper
39 100
54 246.8 62.5 93.7#





#19

Isopropyl Alcohol

Concen: 1.621 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL036237.D

Acq: 13 Jan 2021 23:04

Instrument :

MSVOA_L

ClientSampleId :

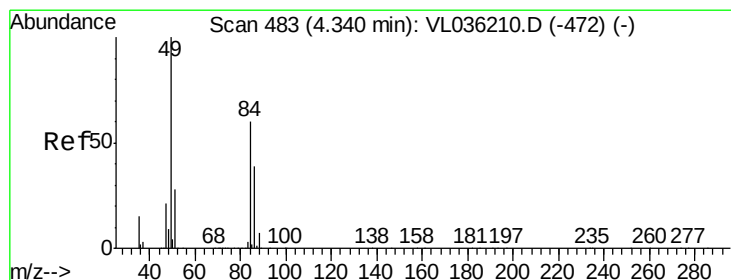
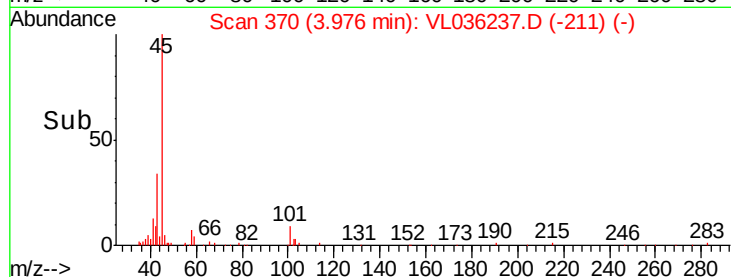
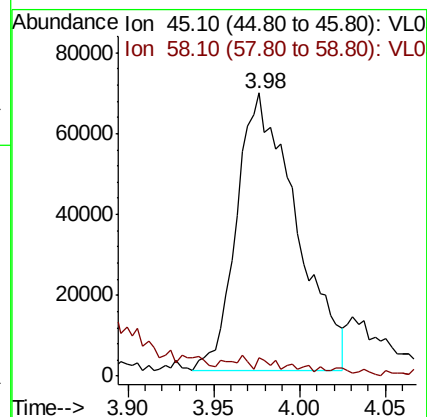
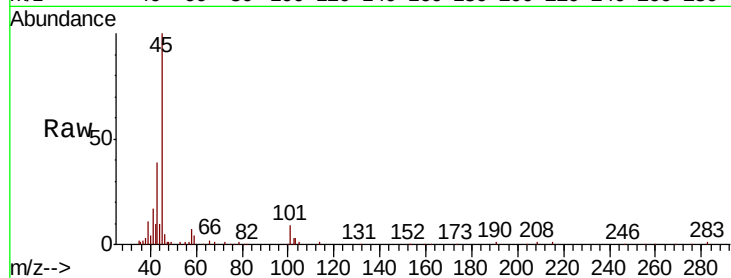
IA2

Tot Ion: 45 Resp: 166476

Ion Ratio Lower Upper

45 100

58 4.4 1.9 2.9#



#20

Methylene Chloride

Concen: 1.014 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL036237.D

Acq: 13 Jan 2021 23:04

Tgt Ion: 84 Resp: 55151

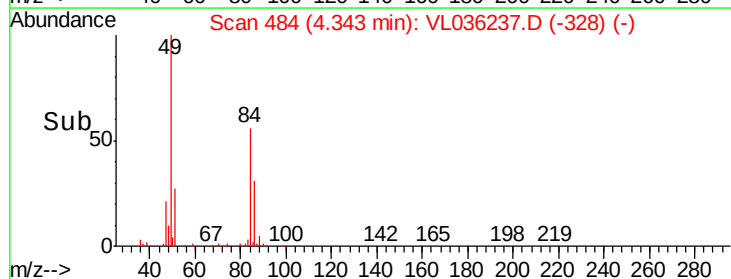
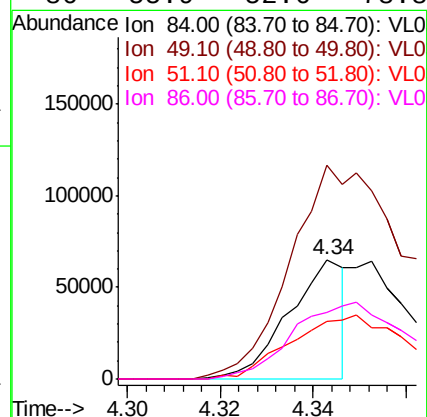
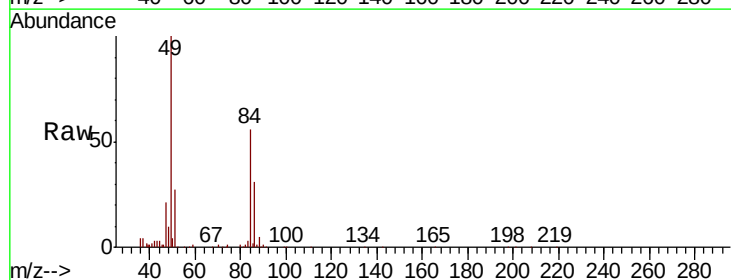
Ion Ratio Lower Upper

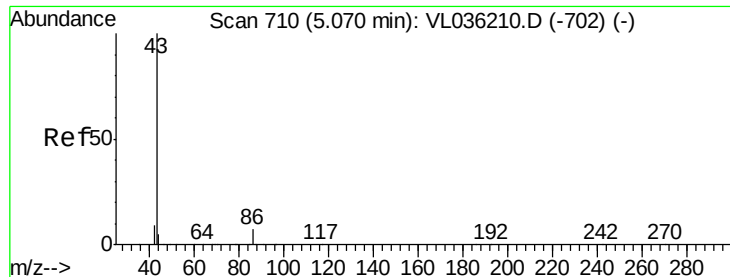
84 100

49 179.4 134.1 201.1

51 47.5 37.4 56.0

86 55.9 52.6 78.8





#23

Vinyl Acetate

Concen: 0.055 ppbv

RT: 5.07 min Scan# 709

Delta R.T. -0.00 min

Lab File: VL036237.D

Acq: 13 Jan 2021 23:04

Instrument :

MSVOA_L

ClientSampled :

IA2

Tot Ion: 43 Resp: 12336

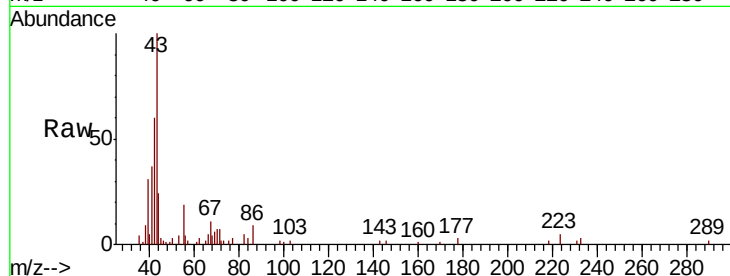
Ion Ratio Lower Upper

43 100

86 5.3 4.9 7.3

42 45.3 7.8 11.6#

44 28.7 3.7 5.5#

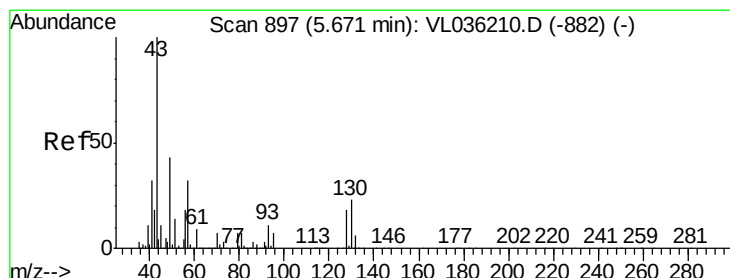
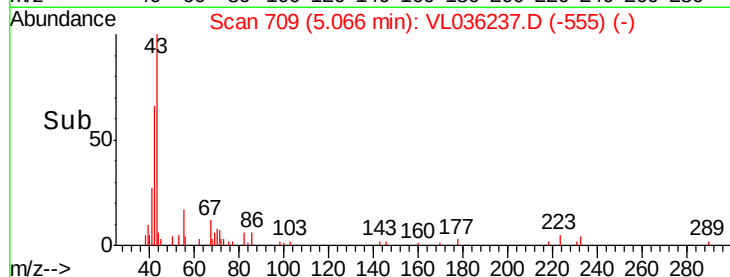
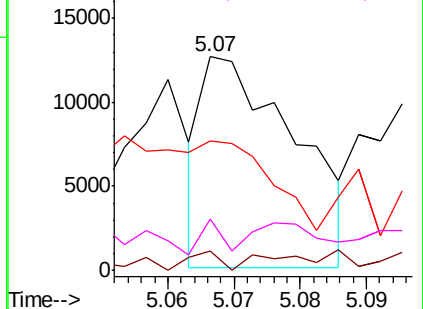


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.397 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.02 min

Lab File: VL036237.D

Acq: 13 Jan 2021 23:04

Tgt Ion: 43 Resp: 143551

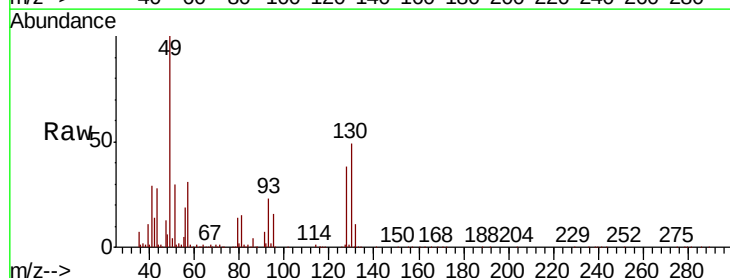
Ion Ratio Lower Upper

43 100

45 5.1 8.3 12.5#

61 3.5 7.4 11.2#

70 4.0 5.5 8.3#

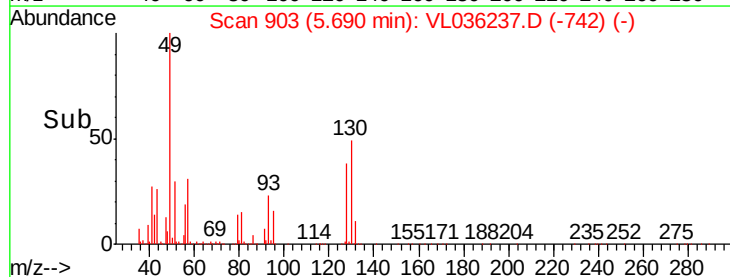
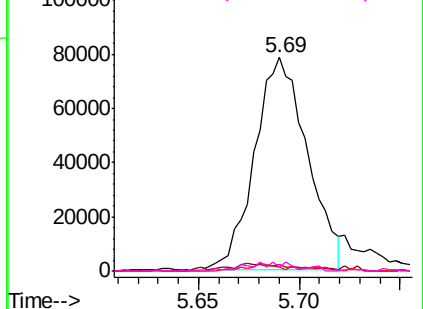


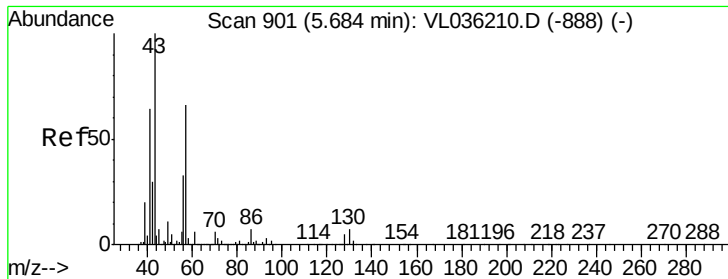
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

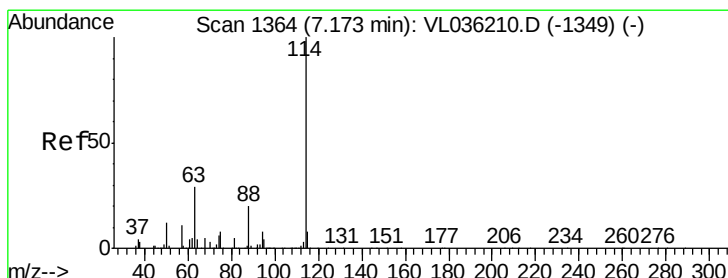
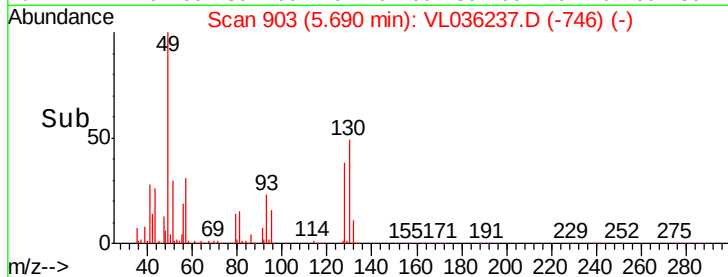
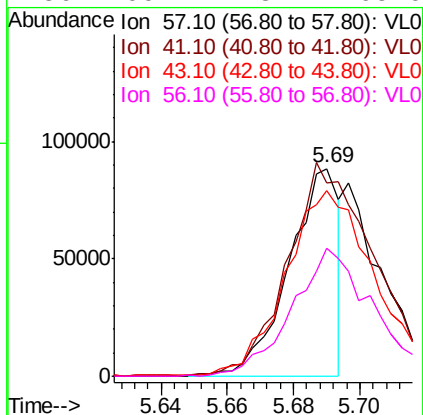
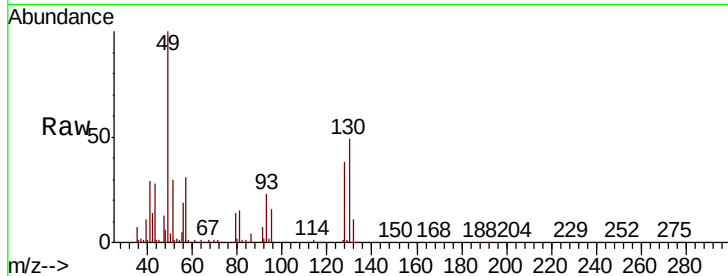




#26
Hexane
Concen: 0.611 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL036237.D
Acq: 13 Jan 2021 23:04

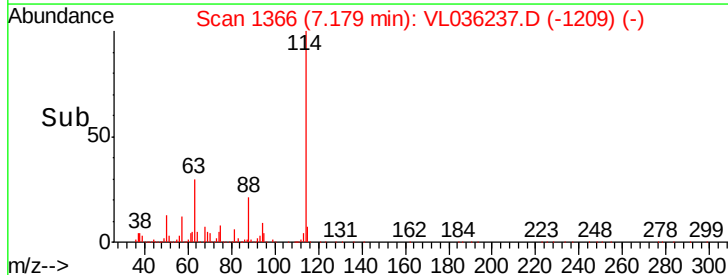
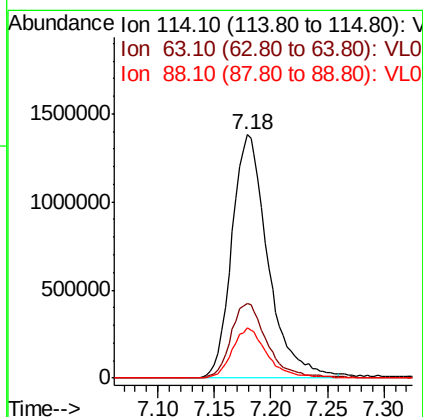
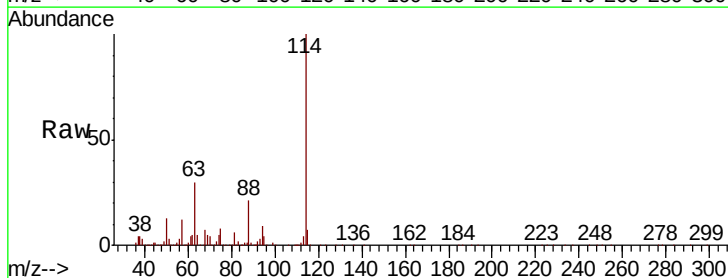
Instrument :
MSVOA_L
ClientSampleId :
IA2

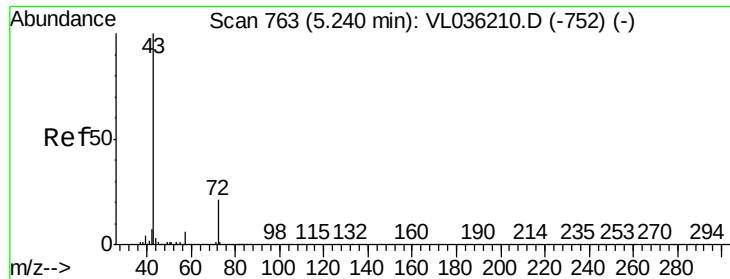
Tot Ion: 57 Resp: 92518
Ion Ratio Lower Upper
57 100
41 192.2 83.0 124.6#
43 177.7 202.4 303.6#
56 109.1 43.4 65.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VL036237.D
Acq: 13 Jan 2021 23:04

Tgt Ion: 114 Resp: 3074192
Ion Ratio Lower Upper
114 100
63 31.2 24.7 37.1
88 20.4 16.6 24.8

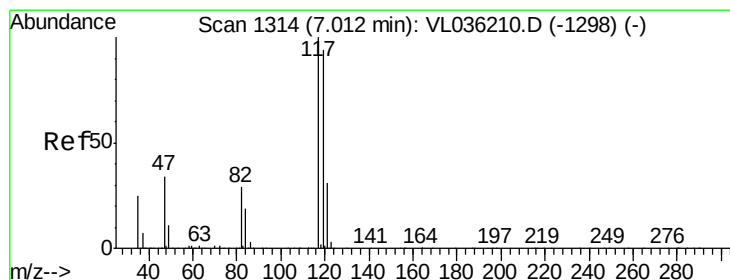
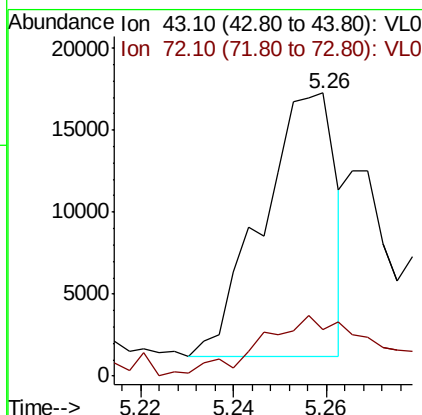
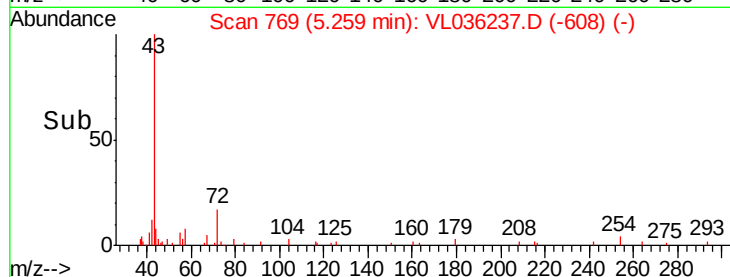
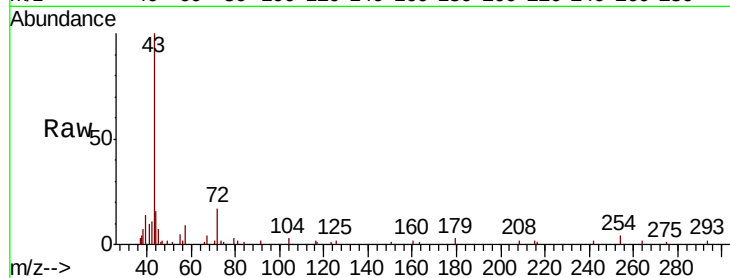




#34
2-Butanone
Concen: 0.090 ppbv
RT: 5.26 min Scan# 769
Delta R.T. 0.02 min
Lab File: VL036237.D
Acq: 13 Jan 2021 23:04

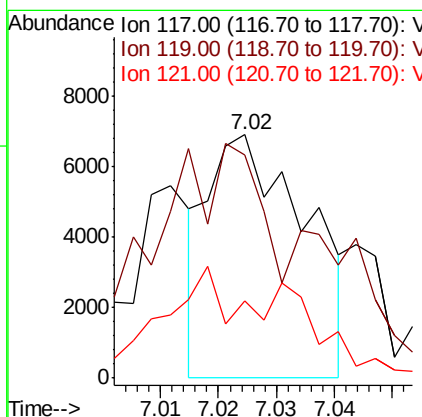
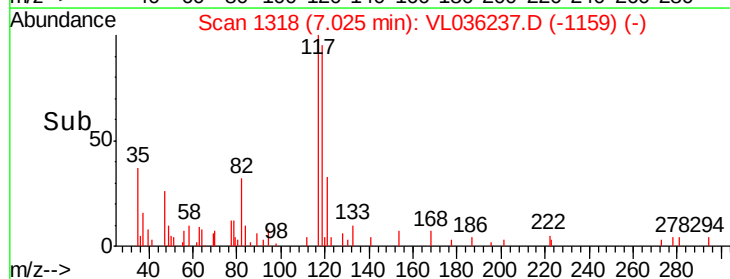
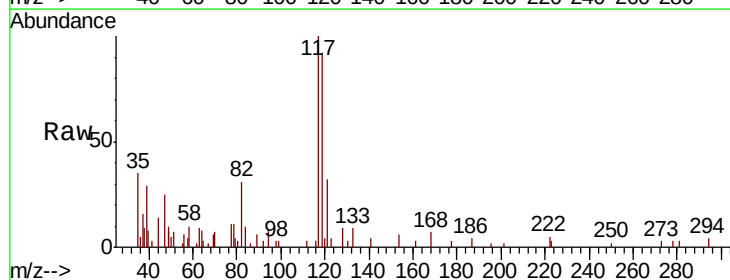
Instrument :
MSVOA_L
ClientSampleId :
IA2

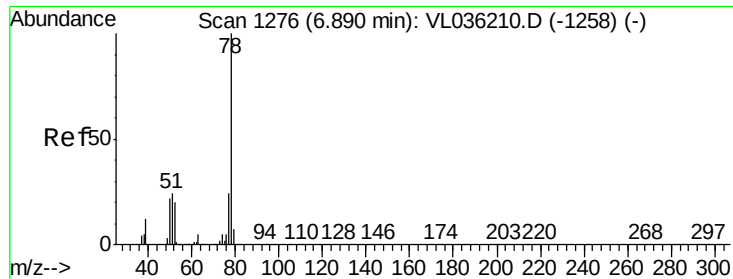
Tot Ion: 43 Resp: 17638
Ion Ratio Lower Upper
43 100
72 48.2 16.1 24.1#



#35
Carbon Tetrachloride
Concen: 0.042 ppbv
RT: 7.02 min Scan# 1318
Delta R.T. 0.01 min
Lab File: VL036237.D
Acq: 13 Jan 2021 23:04

Tgt Ion: 117 Resp: 8084
Ion Ratio Lower Upper
117 100
119 91.1 74.9 112.3
121 26.4 25.0 37.6

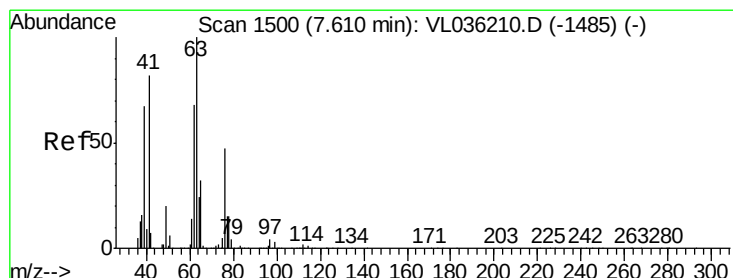
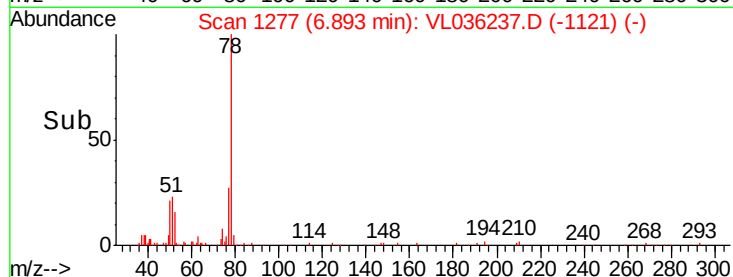
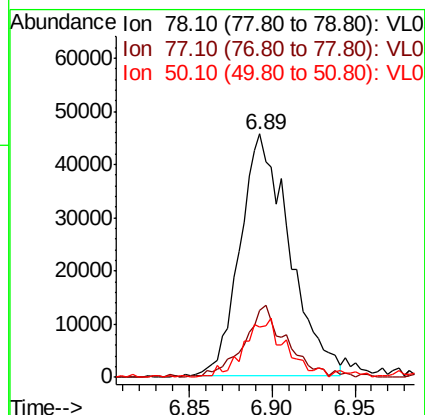
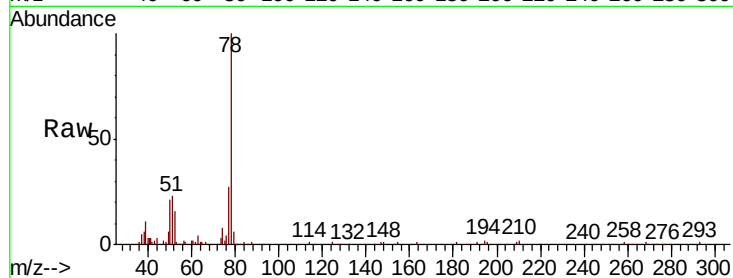




#36
Benzene
Concen: 0.335 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. 0.00 min
Lab File: VL036237.D
Acq: 13 Jan 2021 23:04

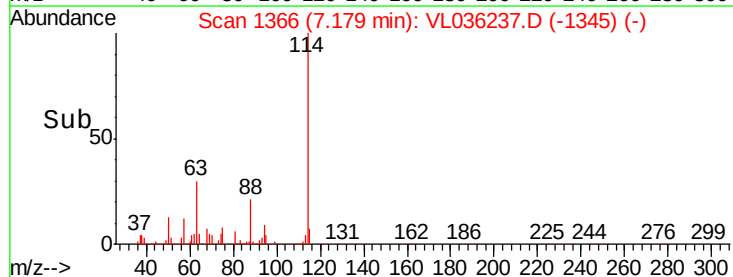
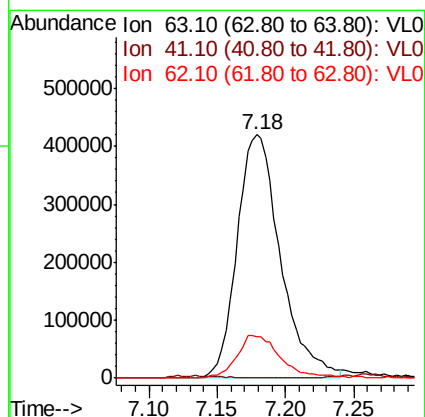
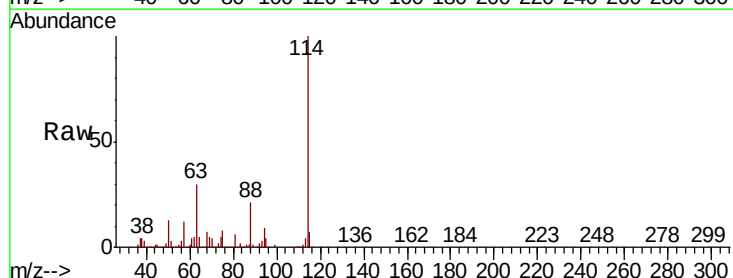
Instrument :
MSVOA_L
ClientSampleId :
IA2

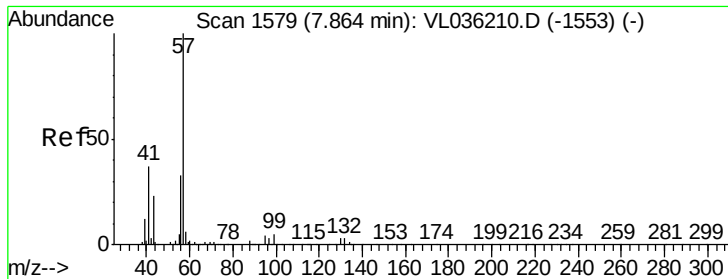
Tot Ion: 78 Resp: 94344
Ion Ratio Lower Upper
78 100
77 26.8 19.4 29.0
50 21.1 17.4 26.2



#39
1,2-Dichloropropane
Concen: 8.098 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.43 min
Lab File: VL036237.D
Acq: 13 Jan 2021 23:04

Tgt Ion: 63 Resp: 926189
Ion Ratio Lower Upper
63 100
41 0.0 66.1 99.1#
62 16.8 54.8 82.2#

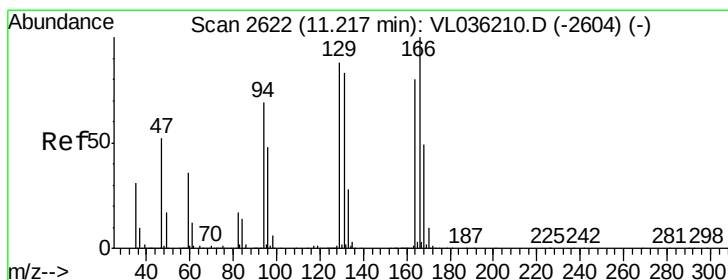
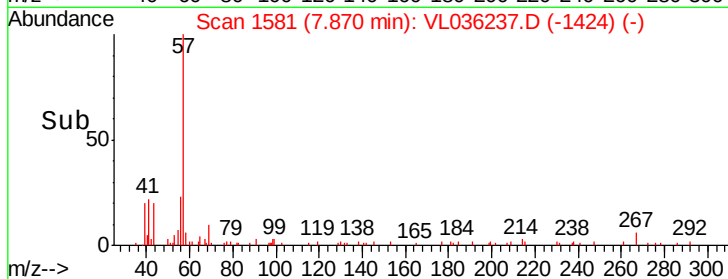
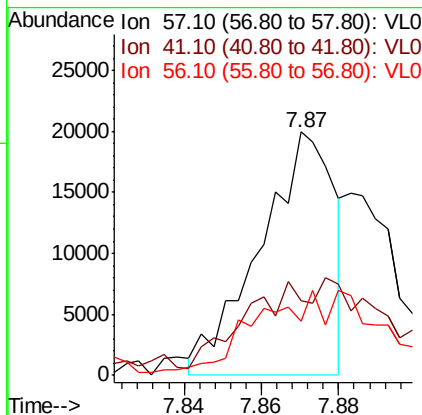
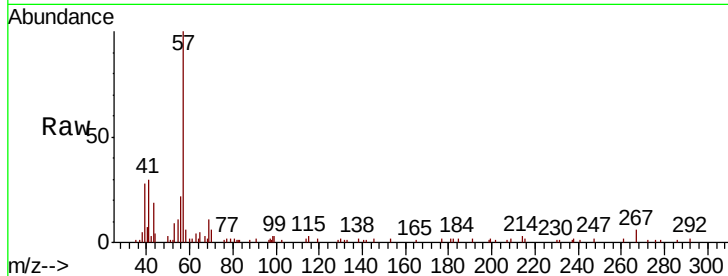




#44
2,2,4-Trimethylpentane
Concen: 0.051 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. 0.01 min
Lab File: VL036237.D
Acq: 13 Jan 2021 23:04

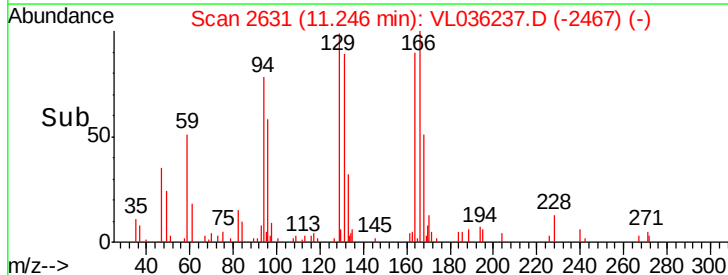
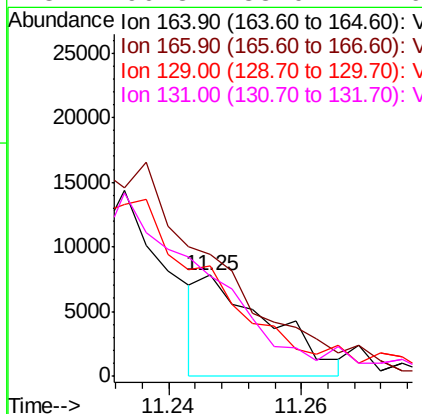
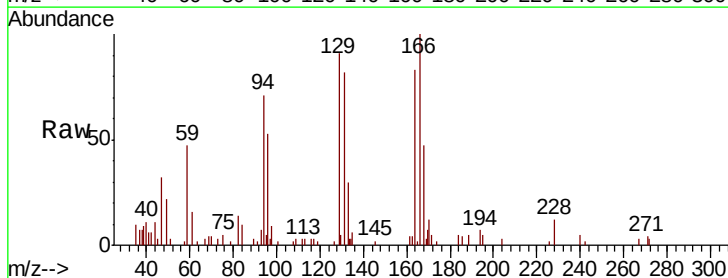
Instrument :
MSVOA_L
ClientSampleId :
IA2

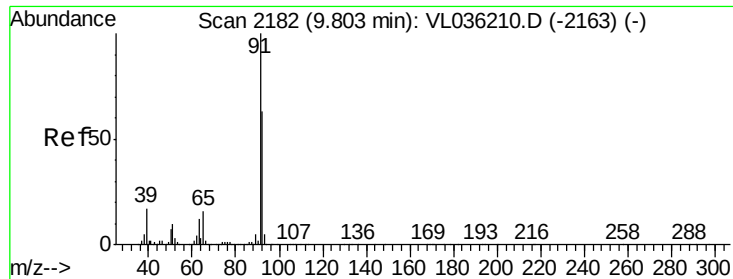
Tot Ion	57	Resp	26606
Ion Ratio	100	Lower	Upper
41	0.0	28.5	42.7#
56	0.0	25.5	38.3#



#52
Tetrachloroethene
Concen: 0.054 ppbv
RT: 11.25 min Scan# 2631
Delta R.T. 0.03 min
Lab File: VL036237.D
Acq: 13 Jan 2021 23:04

Tgt Ion	164	Resp	5570
Ion Ratio	100	Lower	Upper
166	126.2	99.9	149.9
129	101.7	88.2	132.4
131	90.3	83.0	124.6





#53

Toluene

Concen: 0.412 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.01 min

Lab File: VL036237.D

Acq: 13 Jan 2021 23:04

Instrument :

MSVOA_L

ClientSampleId :

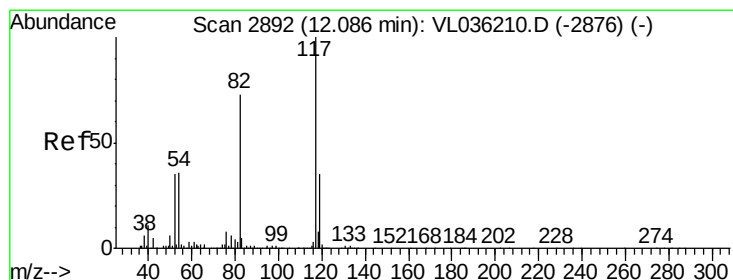
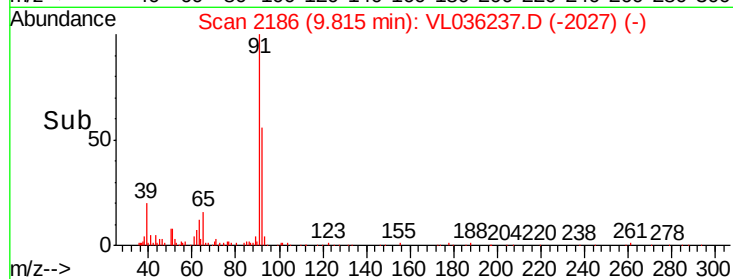
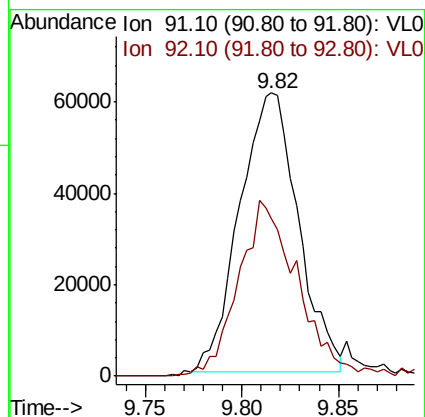
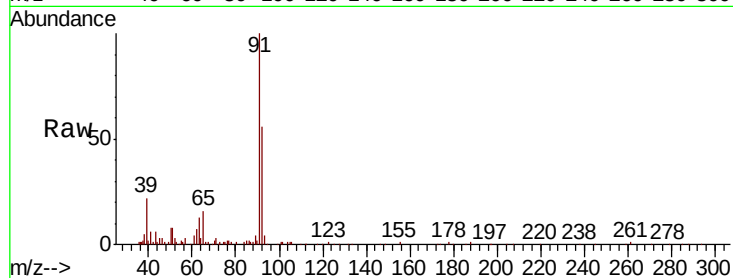
IA2

Tot Ion: 91 Resp: 128375

Ion Ratio Lower Upper

91 100

92 63.5 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: VL036237.D

Acq: 13 Jan 2021 23:04

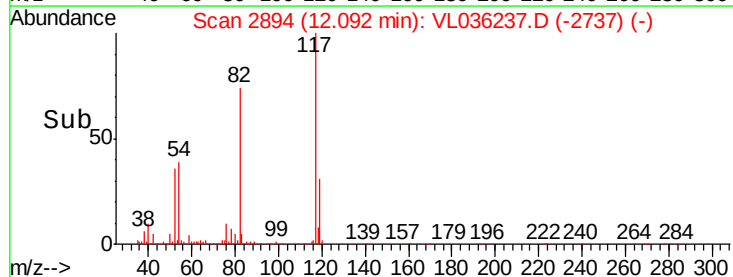
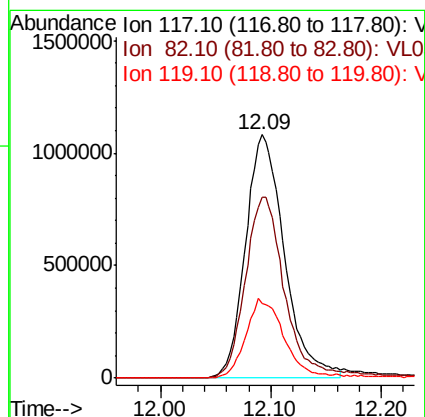
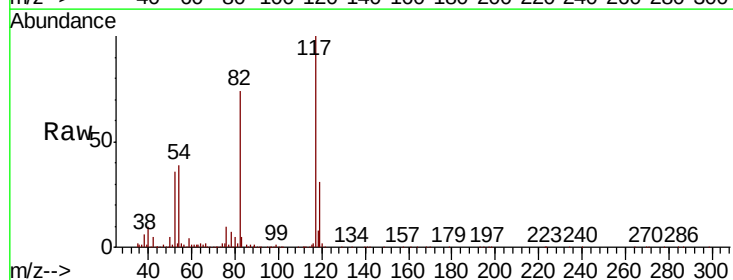
Tgt Ion: 117 Resp: 2644515

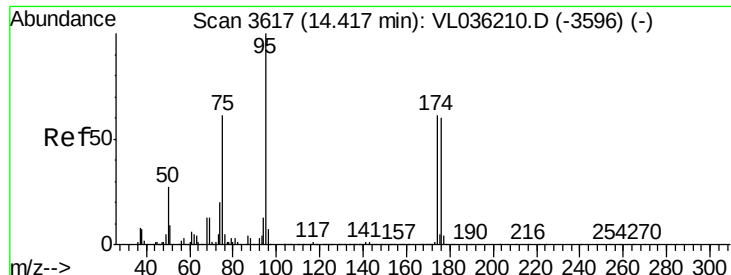
Ion Ratio Lower Upper

117 100

82 78.2 59.7 89.5

119 33.5 28.6 43.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.159 ppbv

RT: 14.43 min Scan# 3620

Delta R.T. 0.01 min

Lab File: VL036237.D

Acq: 13 Jan 2021 23:04

Instrument :

MSVOA_L

ClientSampleId :

IA2

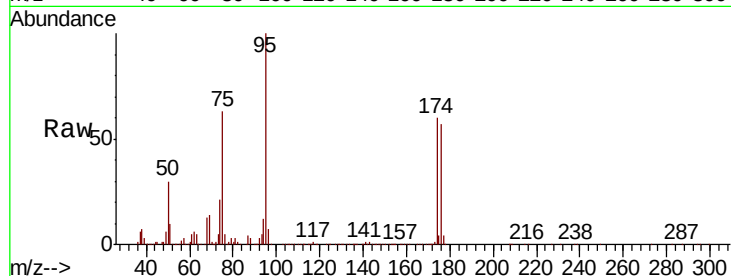
Tot Ion: 95 Resp: 2223749

Ion Ratio Lower Upper

95 100

174 61.9 49.4 74.0

175 4.6 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

