

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012021\
 Data File : VL036247.D
 Acq On : 20 Jan 2021 15:13
 Operator : SY/AP
 Sample : M1171-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1DUP

Quant Time: Jan 21 01:35:14 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 16:13:38 2021
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1388016	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2912510	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2571913	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2132940	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

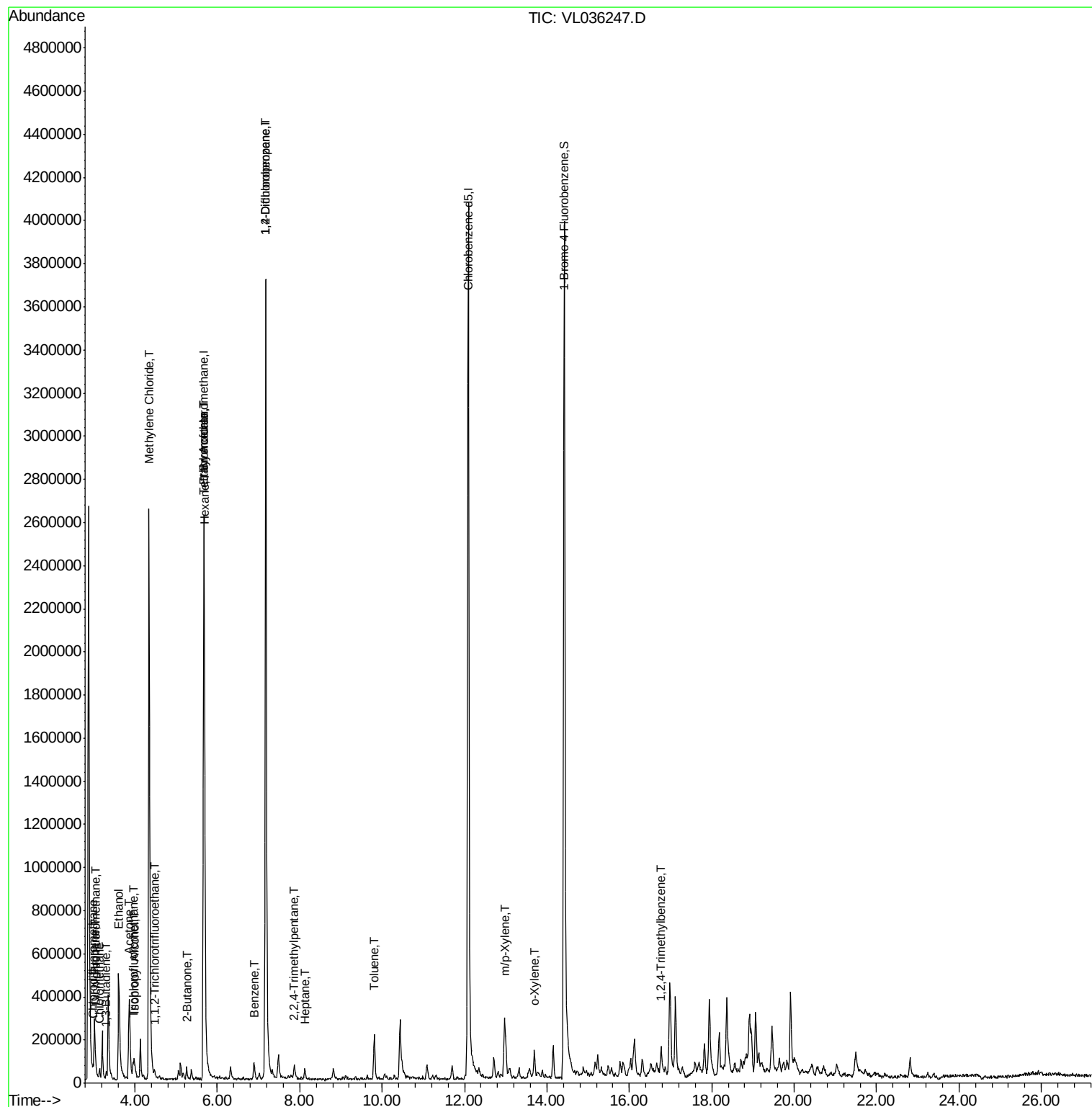
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	36197	0.195 ppbv	96
3) Chlorodifluoromethane	2.99	51	77491	0.455 ppbv #	86
4) Chloromethane	3.14	50	38214	0.454 ppbv	93
9) Propene	3.02	41	76572	0.943 ppbv	85
10) Heptane	8.13	43	6976	0.035 ppbv #	29
11) Trichlorofluoromethane	3.95	101	27602	0.146 ppbv	86
12) 1,1,2-Trichlorotrifluoroet	4.49	101	4985	0.043 ppbv #	9
13) Ethanol	3.61	45	692951	54.363 ppbv	87
15) Acetone	3.86	43	440959	2.594 ppbv	97
16) 1,3-Butadiene	3.31	39	4362	0.053 ppbv	86
19) Isopropyl Alcohol	3.99	45	29845	0.291 ppbv #	93
20) Methylene Chloride	4.34	84	989109	18.231 ppbv	91
25) Ethyl Acetate	5.68	43	369416	1.082 ppbv #	79
26) Hexane	5.69	57	498776	3.510 ppbv #	38
34) 2-Butanone	5.25	43	59357	0.277 ppbv #	85
36) Benzene	6.89	78	68327	0.256 ppbv	98
39) 1,2-Dichloropropane	7.18	63	867104	8.003 ppbv #	21
41) Tetrahydrofuran	5.69	42	206129	1.663 ppbv #	50
44) 2,2,4-Trimethylpentane	7.87	57	43667	0.089 ppbv #	54
53) Toluene	9.81	91	105040	0.352 ppbv #	58
59) m/p-Xylene	12.99	91	127759	0.390 ppbv #	33
60) o-Xylene	13.70	91	89806	0.284 ppbv	96
74) 1,2,4-Trimethylbenzene	16.77	105	45374	0.130 ppbv #	48

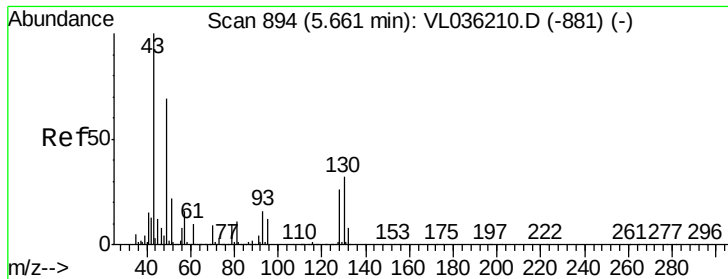
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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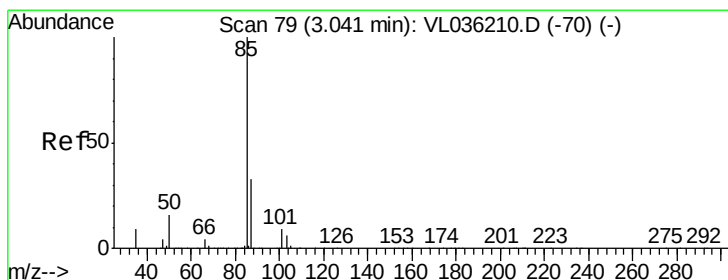
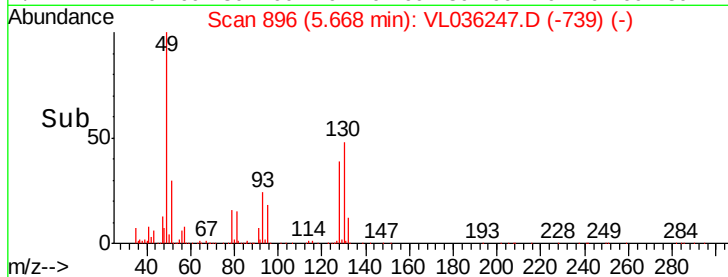
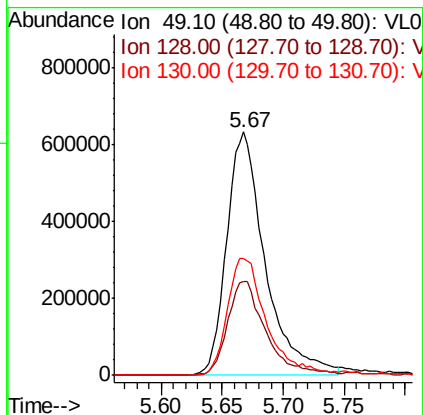
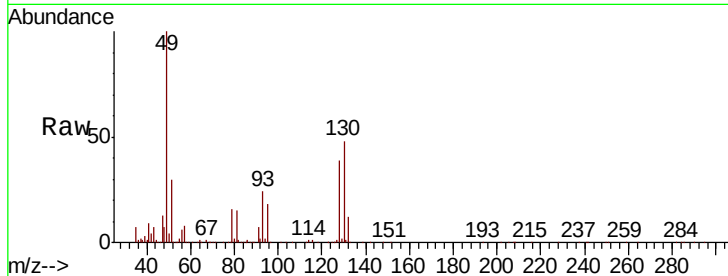




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 896
 Delta R.T. 0.01 min
 Lab File: VL036247.D
 Acq: 20 Jan 2021 15:13

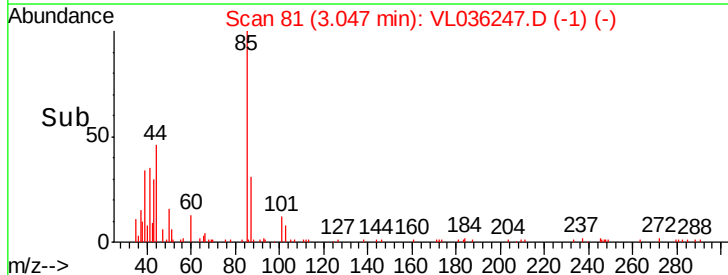
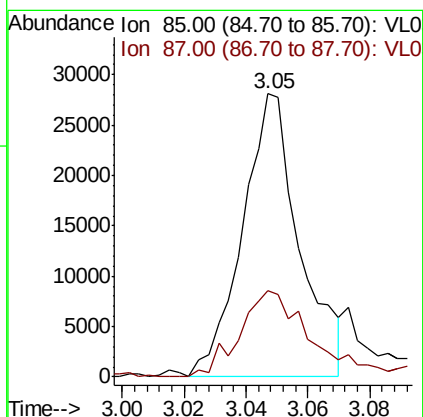
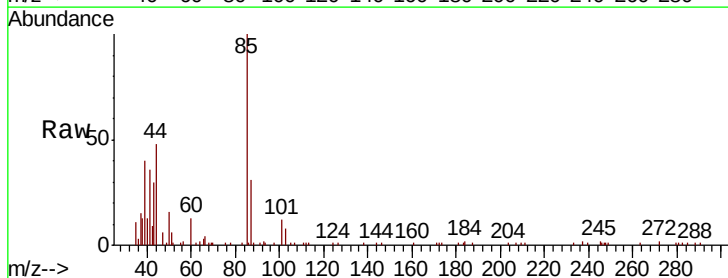
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1DUP

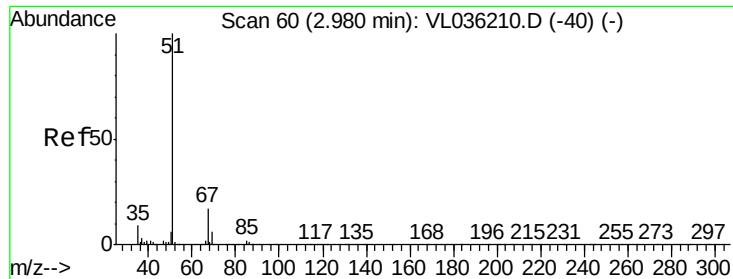
Tot Ion: 49 Resp: 1388016
 Ion Ratio Lower Upper
 49 100
 128 39.9 20.1 60.2
 130 51.1 25.3 75.9



#2
 Dichlorodifluoromethane
 Concen: 0.195 ppbv
 RT: 3.05 min Scan# 81
 Delta R.T. 0.01 min
 Lab File: VL036247.D
 Acq: 20 Jan 2021 15:13

Tgt Ion: 85 Resp: 36197
 Ion Ratio Lower Upper
 85 100
 87 30.5 26.4 39.6





#3

Chlorodifluoromethane

Concen: 0.455 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.01 min

Lab File: VL036247.D

Acq: 20 Jan 2021 15:13

Instrument :

MSVOA_L

ClientSampleId :

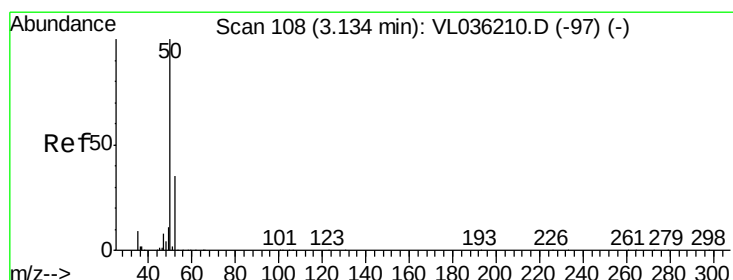
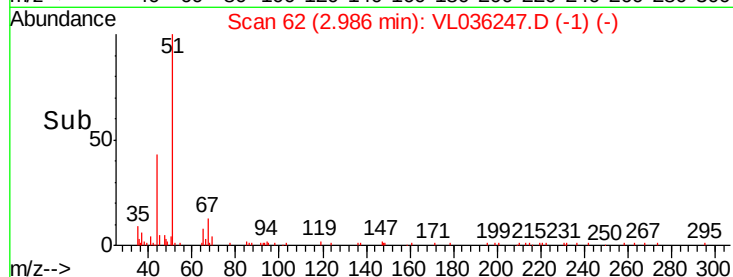
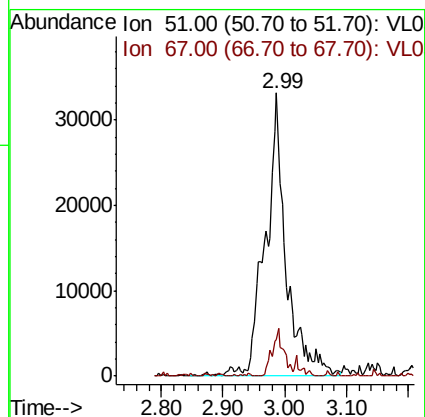
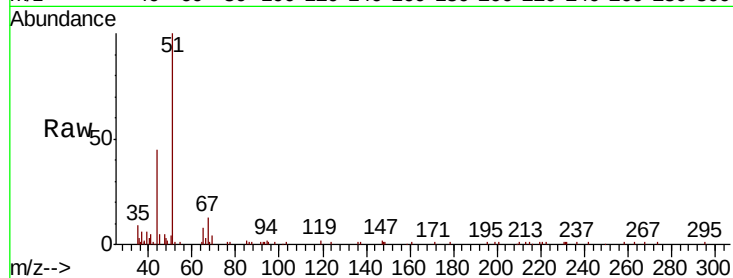
AA-1DUP

Tot Ion: 51 Resp: 77491

Ion Ratio Lower Upper

51 100

67 11.3 14.0 21.0#



#4

Chloromethane

Concen: 0.454 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL036247.D

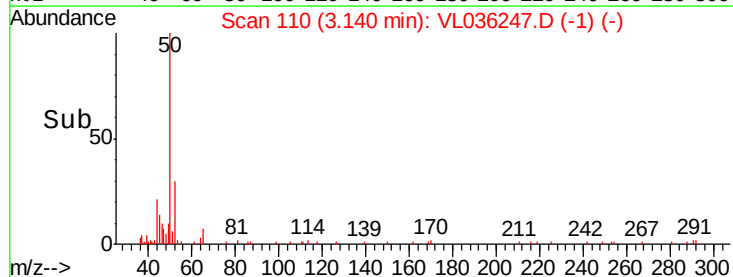
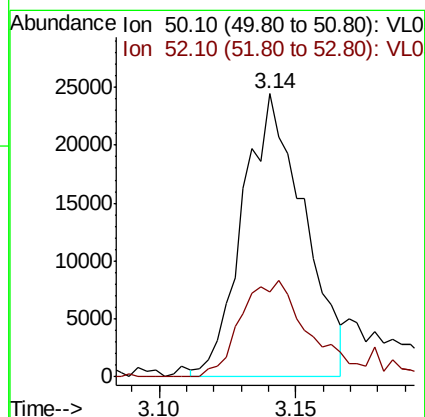
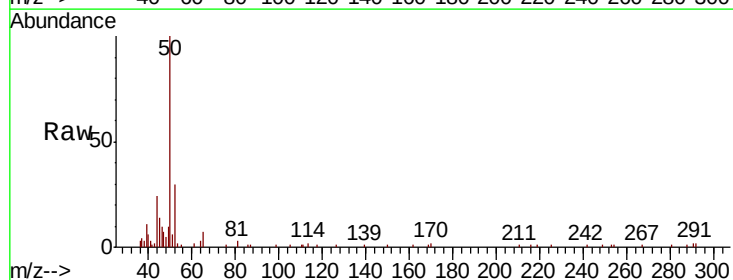
Acq: 20 Jan 2021 15:13

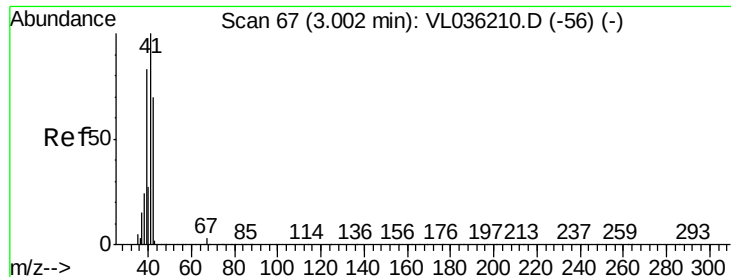
Tgt Ion: 50 Resp: 38214

Ion Ratio Lower Upper

50 100

52 30.6 27.8 41.8





#9

Propene

Concen: 0.943 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.02 min

Lab File: VL036247.D

Acq: 20 Jan 2021 15:13

Instrument :

MSVOA_L

ClientSampleId :

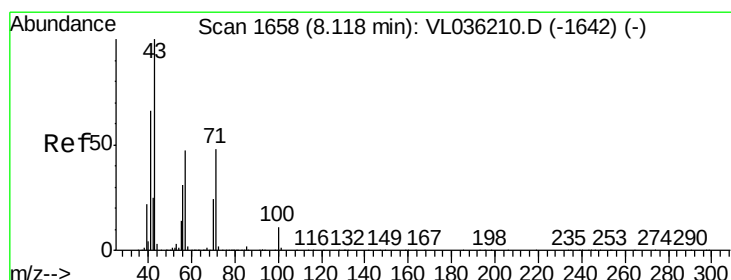
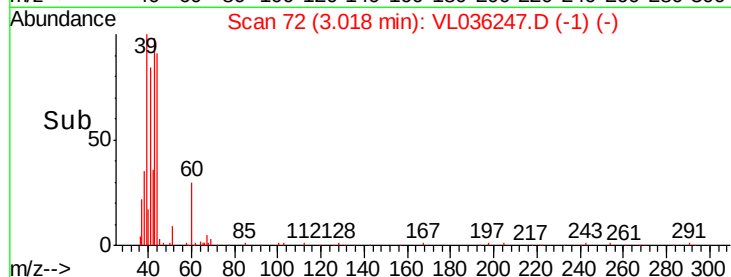
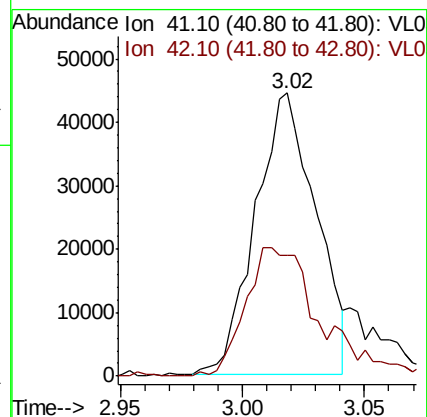
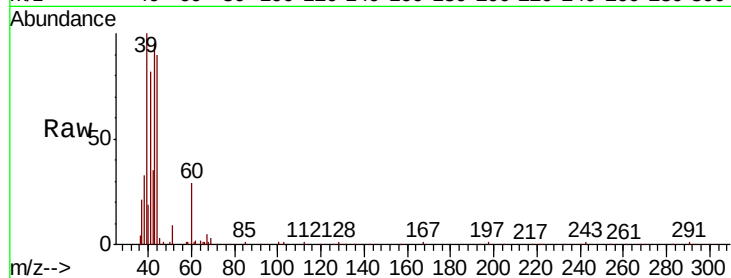
AA-1DUP

Tot Ion: 41 Resp: 76572

Ion Ratio Lower Upper

41 100

42 59.3 57.1 85.7



#10

Heptane

Concen: 0.035 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. 0.02 min

Lab File: VL036247.D

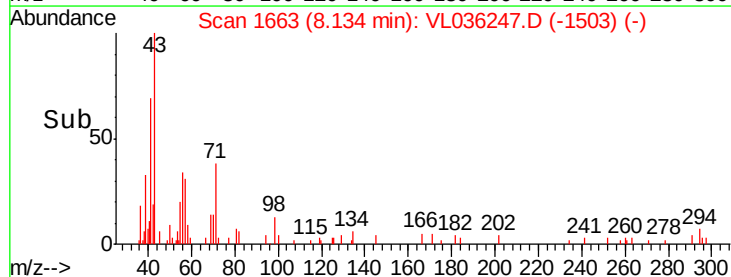
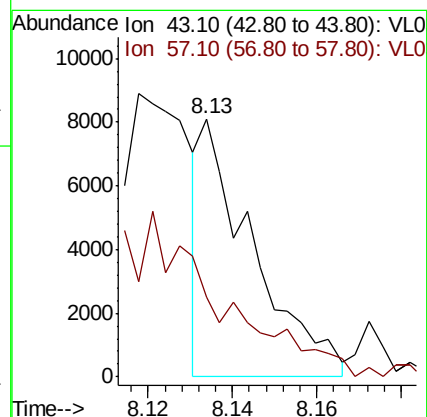
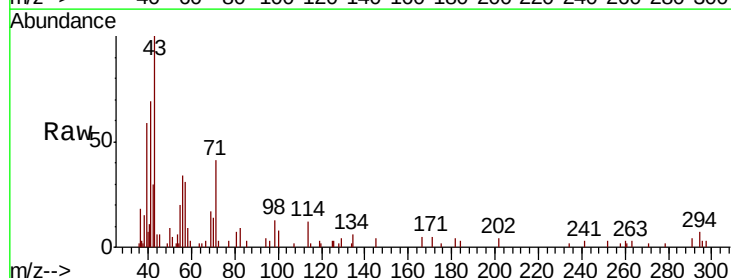
Acq: 20 Jan 2021 15:13

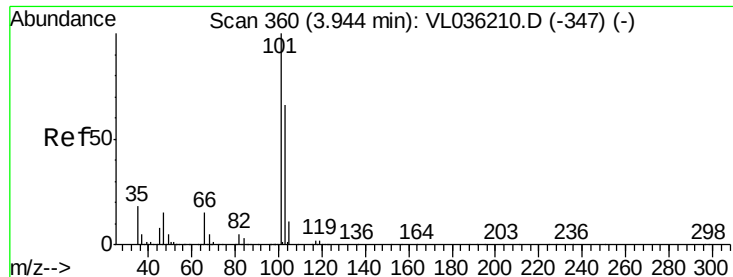
Tgt Ion: 43 Resp: 6976

Ion Ratio Lower Upper

43 100

57 0.0 38.1 57.1#





#11

Trichlorofluoromethane

Concen: 0.146 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL036247.D

Acq: 20 Jan 2021 15:13

Instrument :

MSVOA_L

ClientSampleId :

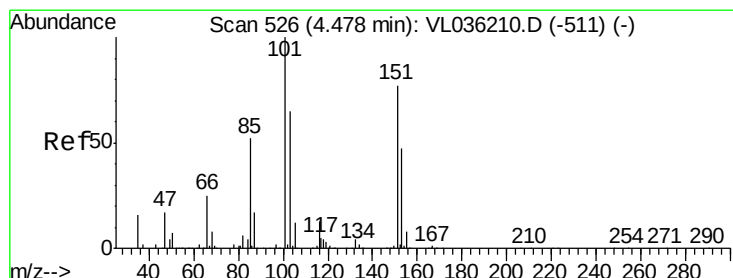
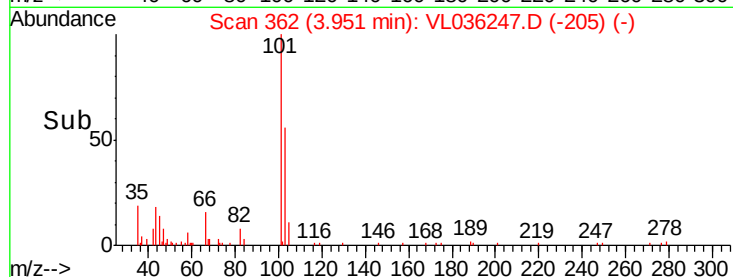
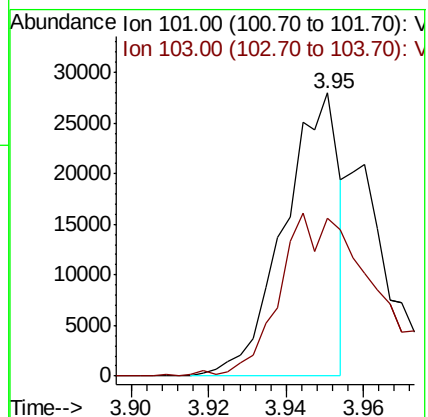
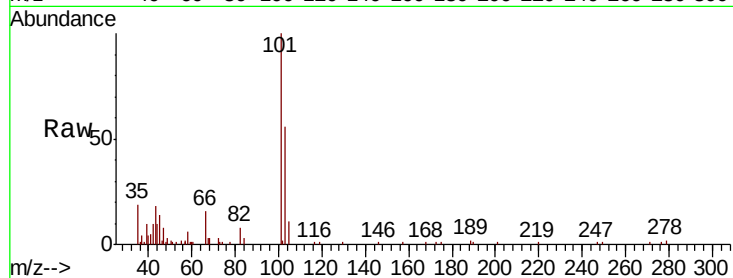
AA-1DUP

Tot Ion:101 Resp: 27602

Ion Ratio Lower Upper

101 100

103 54.9 52.6 78.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.043 ppbv

RT: 4.49 min Scan# 529

Delta R.T. 0.01 min

Lab File: VL036247.D

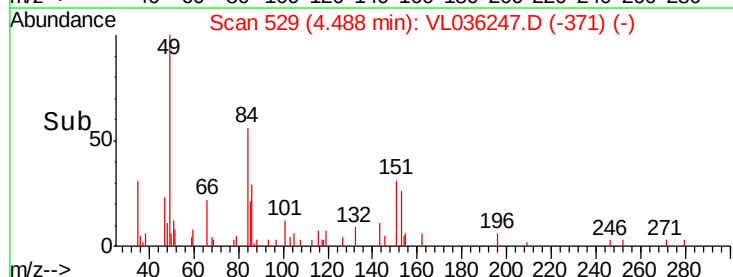
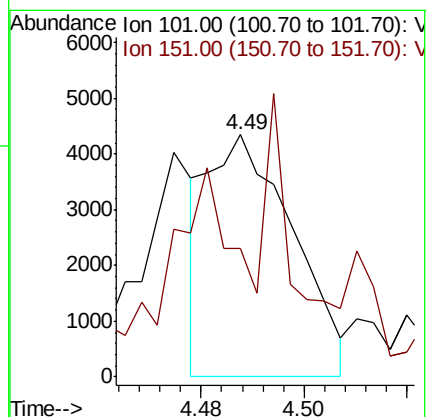
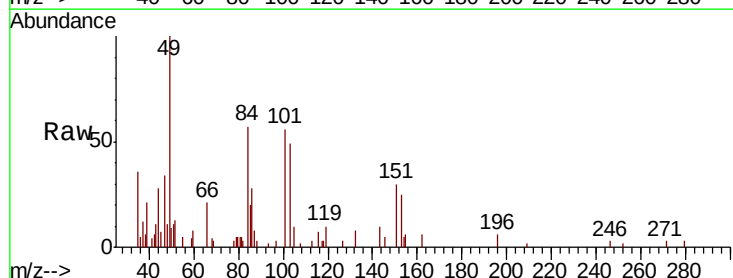
Acq: 20 Jan 2021 15:13

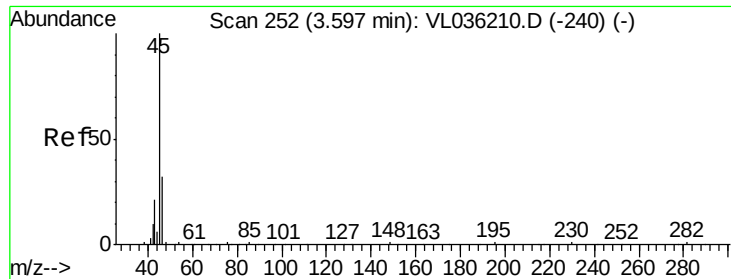
Tgt Ion:101 Resp: 4985

Ion Ratio Lower Upper

101 100

151 152.3 59.8 89.6#





#13

Ethanol

Concen: 54.363 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.01 min

Lab File: VL036247.D

Acq: 20 Jan 2021 15:13

Instrument :

MSVOA_L

ClientSampleId :

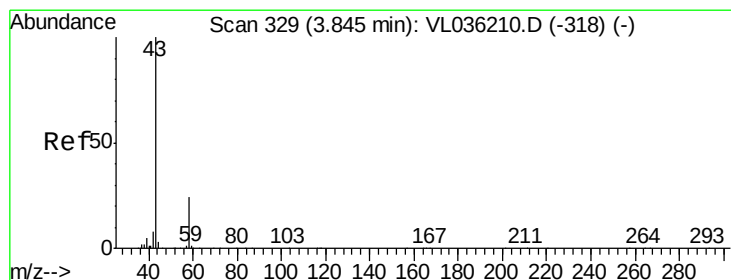
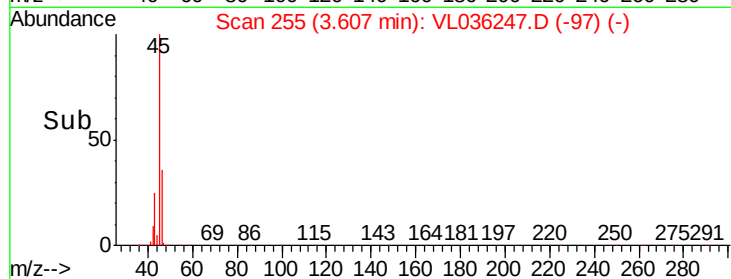
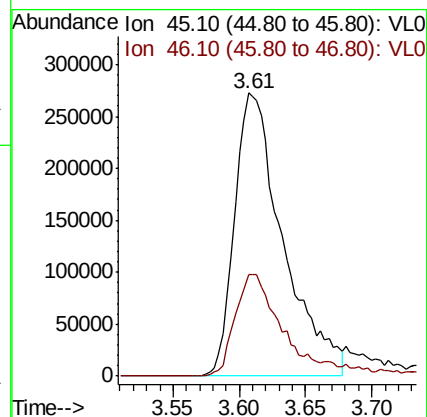
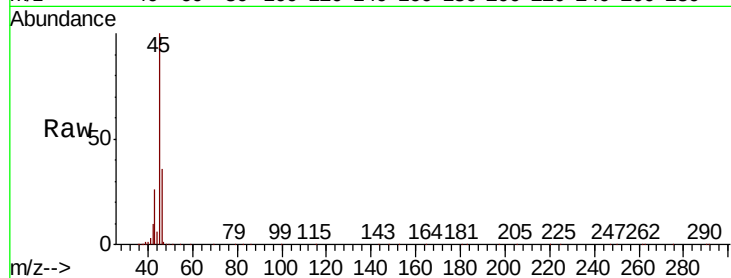
AA-1DUP

Tot Ion: 45 Resp: 692951

Ion Ratio Lower Upper

45 100

46 39.3 19.2 77.0



#15

Acetone

Concen: 2.594 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL036247.D

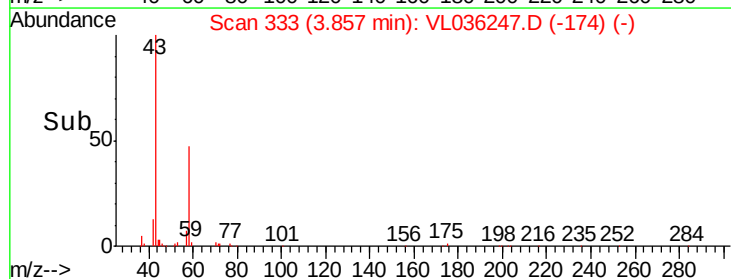
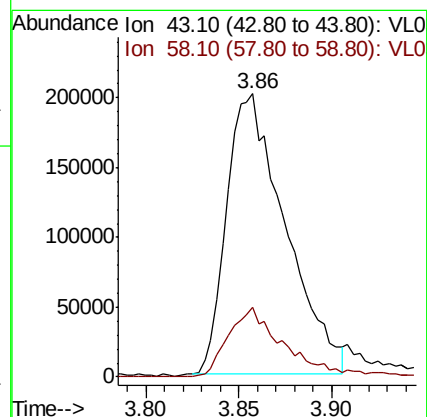
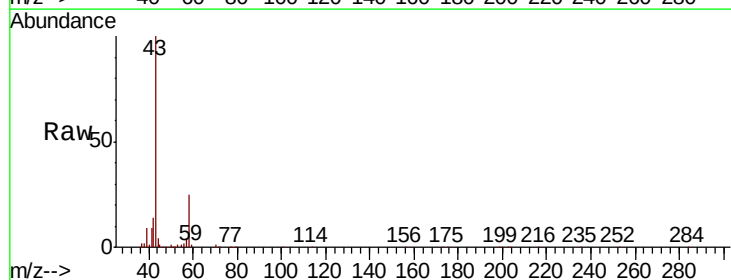
Acq: 20 Jan 2021 15:13

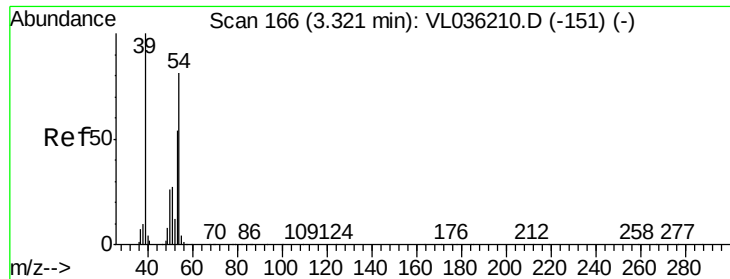
Tgt Ion: 43 Resp: 440959

Ion Ratio Lower Upper

43 100

58 24.3 20.9 31.3

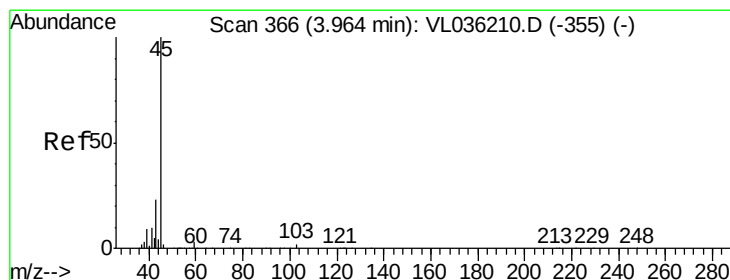
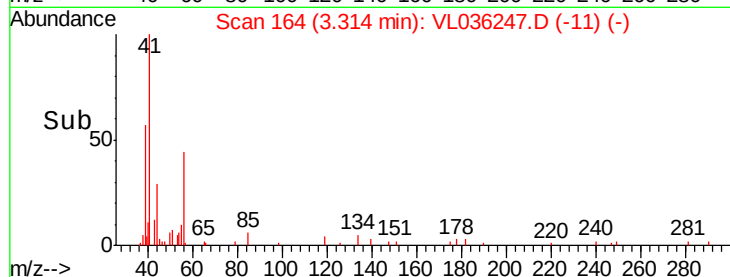
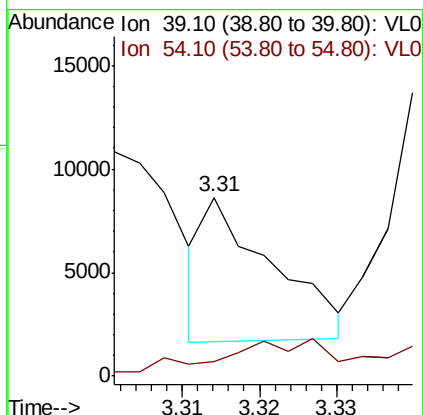
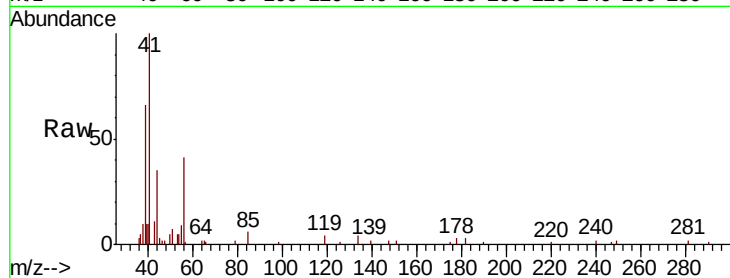




#16
1,3-Butadiene
Concen: 0.053 ppbv
RT: 3.31 min Scan# 164
Delta R.T. -0.01 min
Lab File: VL036247.D
Acq: 20 Jan 2021 15:13

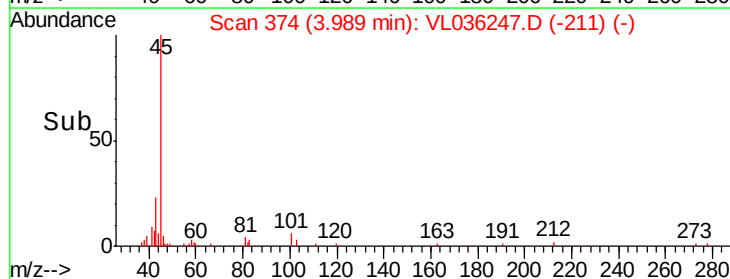
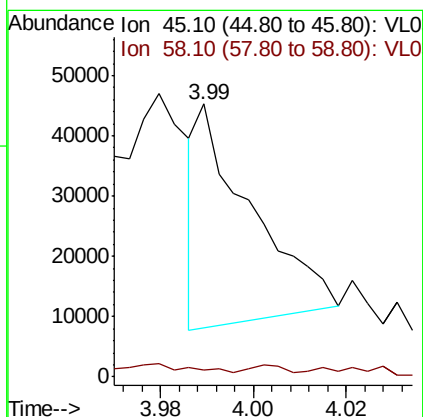
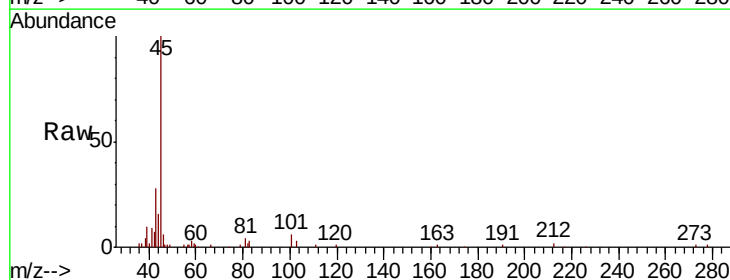
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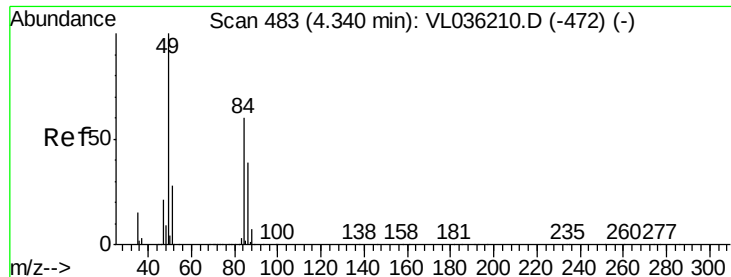
Tot Ion: 39 Resp: 4362
Ion Ratio Lower Upper
39 100
54 65.6 62.5 93.7



#19
Isopropyl Alcohol
Concen: 0.291 ppbv
RT: 3.99 min Scan# 374
Delta R.T. 0.03 min
Lab File: VL036247.D
Acq: 20 Jan 2021 15:13

Tgt Ion: 45 Resp: 29845
Ion Ratio Lower Upper
45 100
58 0.0 1.9 2.9#

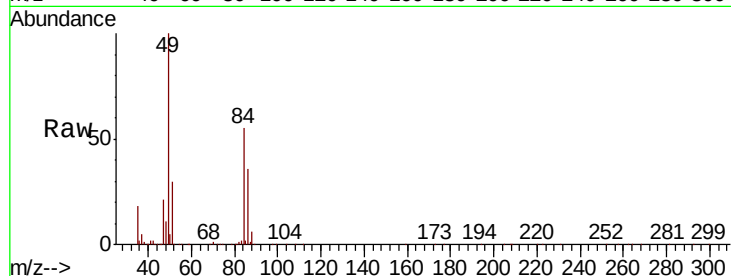




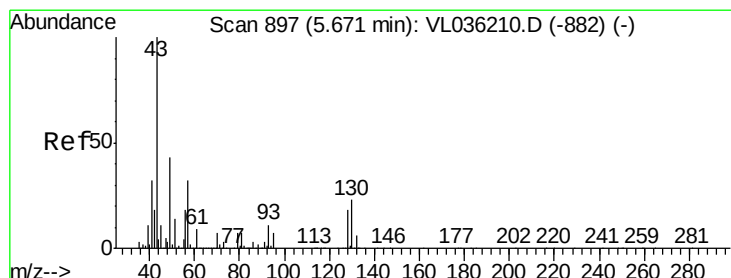
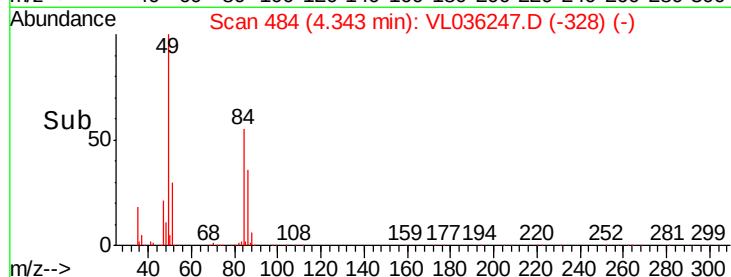
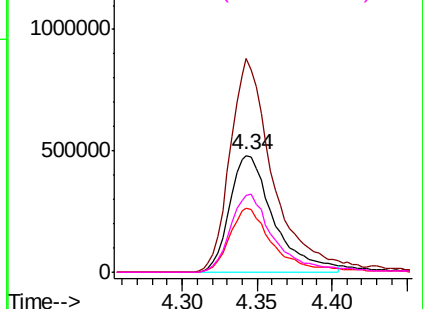
#20
Methylene Chloride
Concen: 18.231 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.00 min
Lab File: VL036247.D
Acq: 20 Jan 2021 15:13

Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

Tot Ion:	84	Resp:	989109
Ion	Ratio	Lower	Upper
84	100		
49	183.0	134.1	201.1
51	54.7	37.4	56.0
86	65.4	52.6	78.8

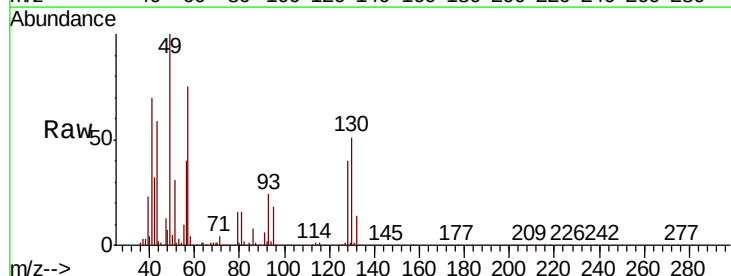


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

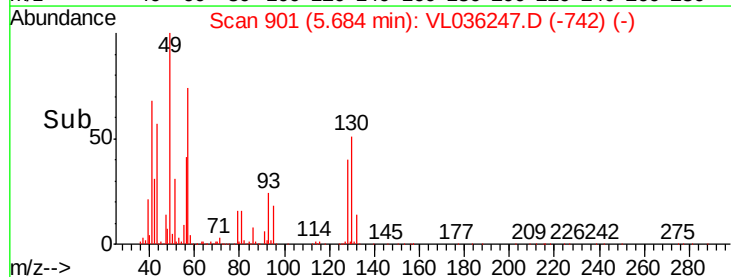
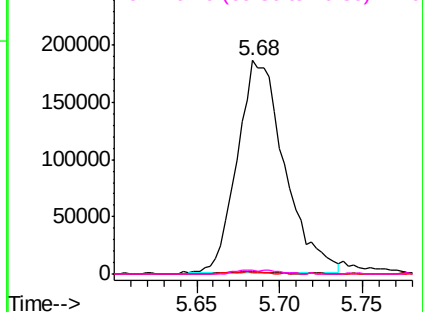


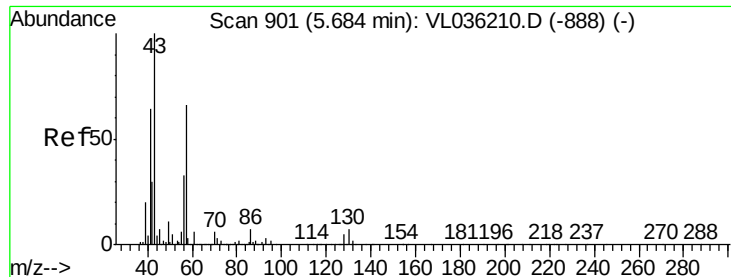
#25
Ethyl Acetate
Concen: 1.082 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.01 min
Lab File: VL036247.D
Acq: 20 Jan 2021 15:13

Tgt Ion:	43	Resp:	369416
Ion	Ratio	Lower	Upper
43	100		
45	1.3	8.3	12.5#
61	1.1	7.4	11.2#
70	1.8	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

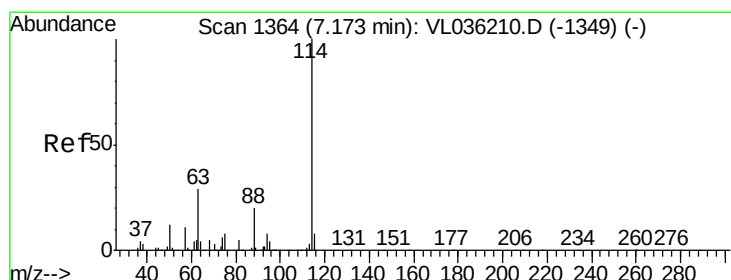
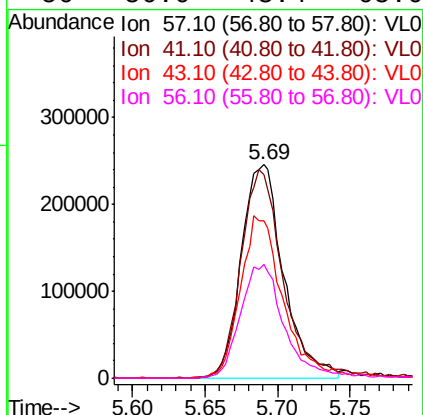
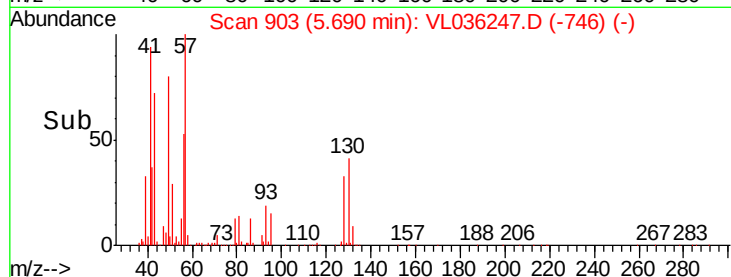
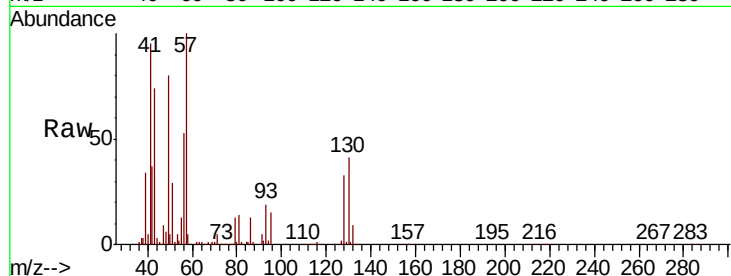




#26
Hexane
Concen: 3.510 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL036247.D
Acq: 20 Jan 2021 15:13

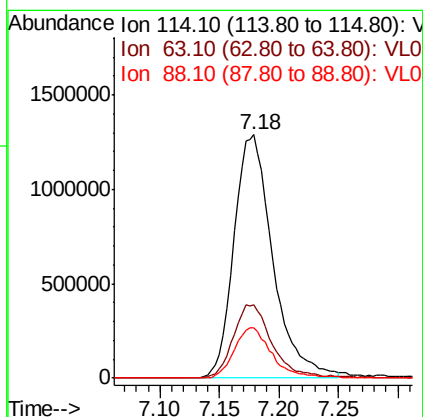
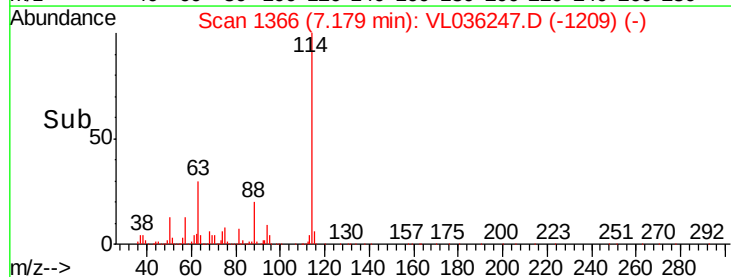
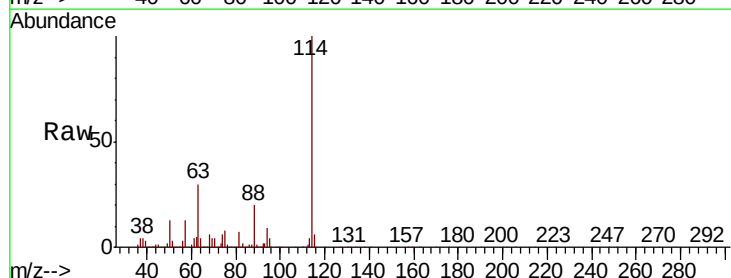
Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

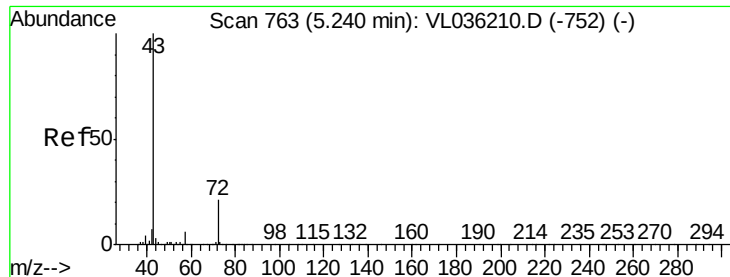
Tot Ion:	57	Resp:	498776
Ion	Ratio	Lower	Upper
57	100		
41	100.5	83.0	124.6
43	78.0	202.4	303.6#
56	56.0	43.4	65.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VL036247.D
Acq: 20 Jan 2021 15:13

Tgt Ion:	114	Resp:	2912510
Ion	Ratio	Lower	Upper
114	100		
63	30.7	24.7	37.1
88	20.4	16.6	24.8

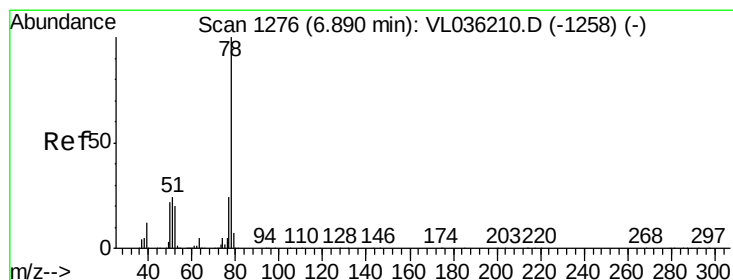
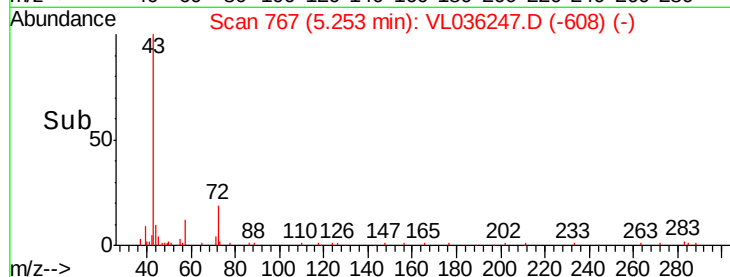
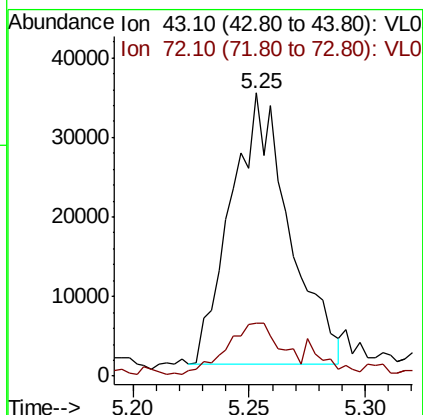
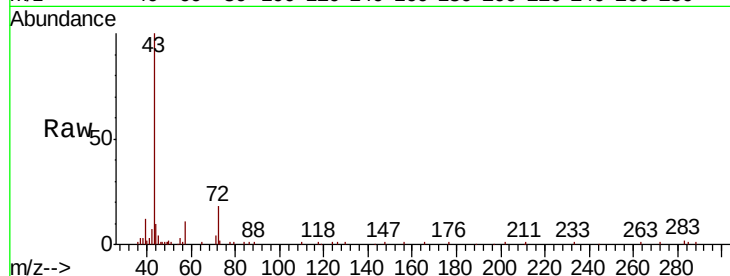




#34
2-Butanone
Concen: 0.277 ppbv
RT: 5.25 min Scan# 767
Delta R.T. 0.01 min
Lab File: VL036247.D
Acq: 20 Jan 2021 15:13

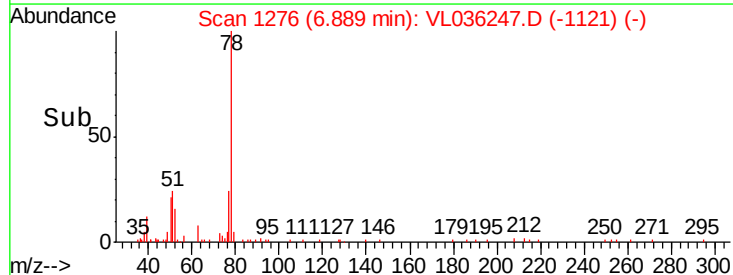
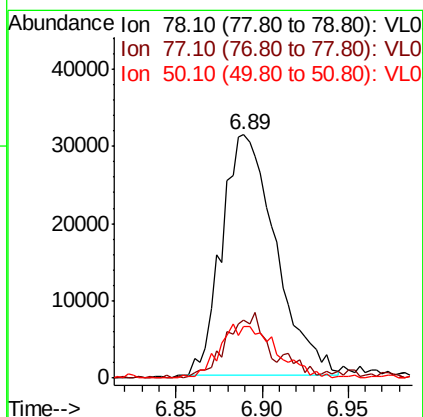
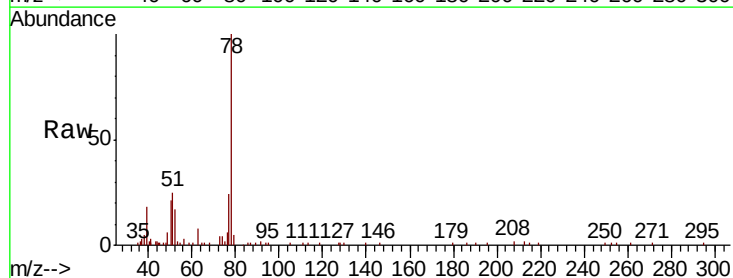
Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

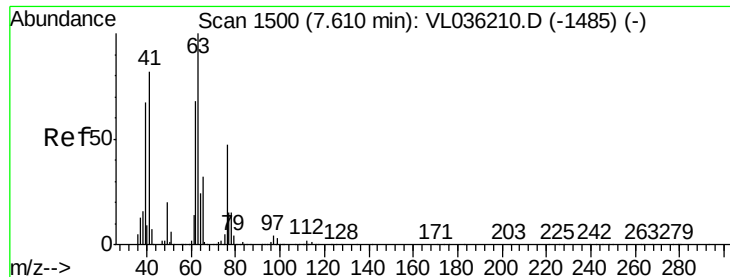
Tot Ion: 43 Resp: 59357
Ion Ratio Lower Upper
43 100
72 26.8 16.1 24.1#



#36
Benzene
Concen: 0.256 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.00 min
Lab File: VL036247.D
Acq: 20 Jan 2021 15:13

Tgt Ion: 78 Resp: 68327
Ion Ratio Lower Upper
78 100
77 23.6 19.4 29.0
50 20.8 17.4 26.2





#39

1,2-Dichloropropane

Concen: 8.003 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.43 min

Lab File: VL036247.D

Acq: 20 Jan 2021 15:13

Instrument :

MSVOA_L

ClientSampled :

AA-1DUP

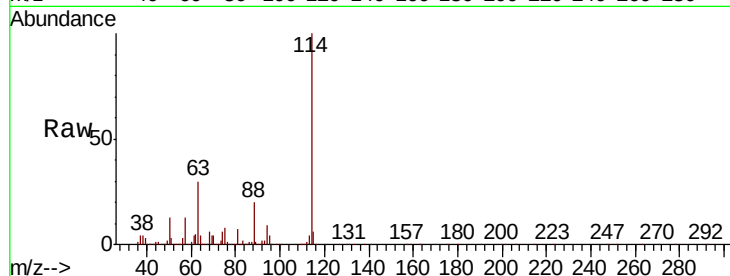
Tot Ion: 63 Resp: 867104

Ion Ratio Lower Upper

63 100

41 0.0 66.1 99.1#

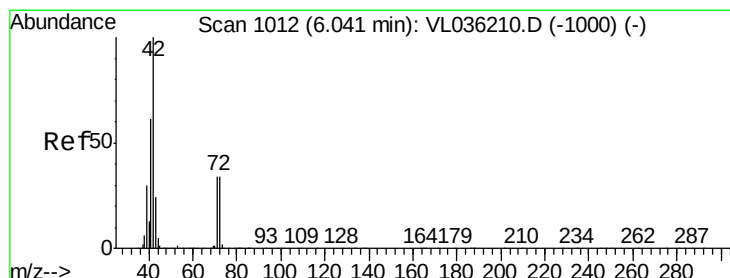
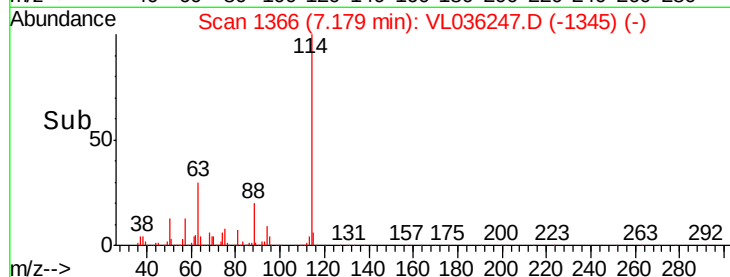
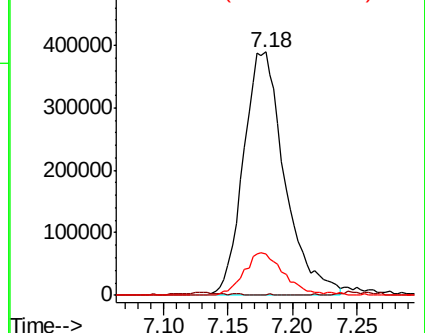
62 17.3 54.8 82.2#



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



#41

Tetrahydrofuran

Concen: 1.663 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.35 min

Lab File: VL036247.D

Acq: 20 Jan 2021 15:13

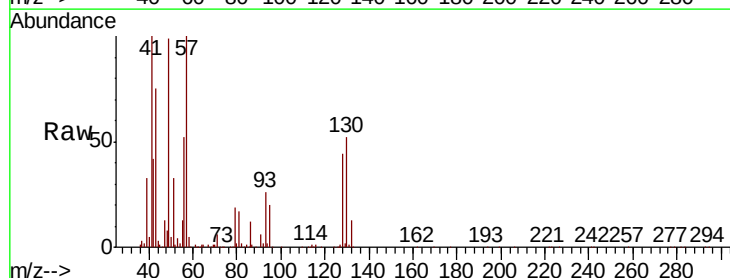
Tgt Ion: 42 Resp: 206129

Ion Ratio Lower Upper

42 100

72 1.0 29.5 44.3#

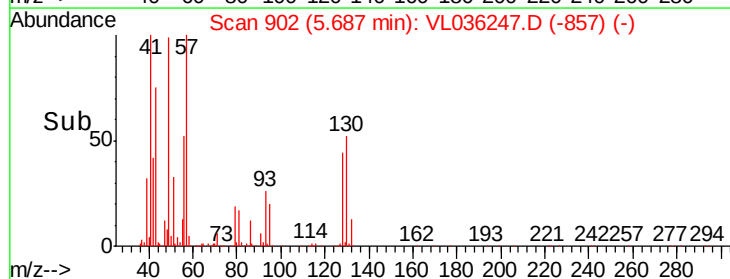
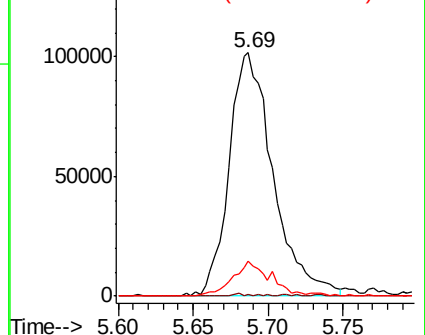
71 13.0 29.1 43.7#

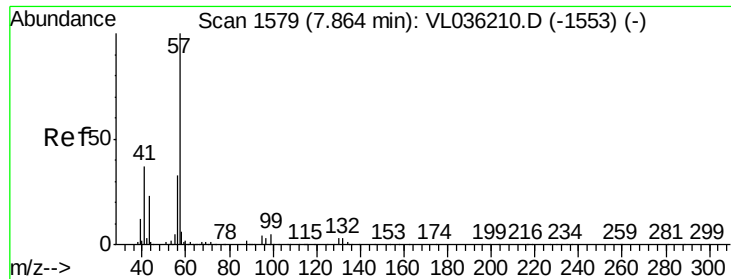


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0

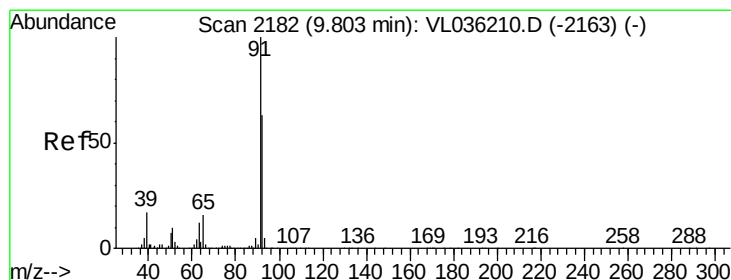
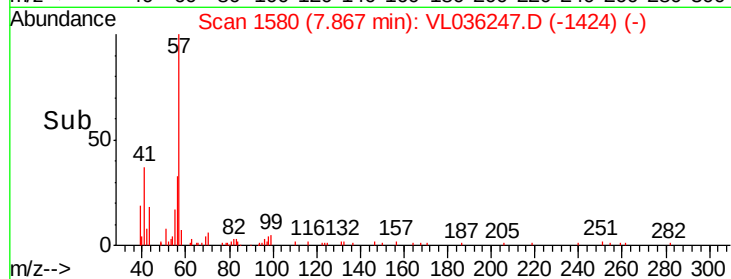
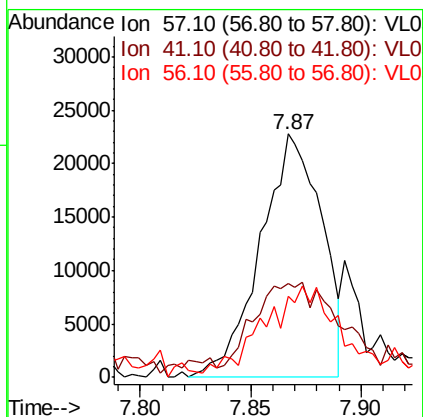
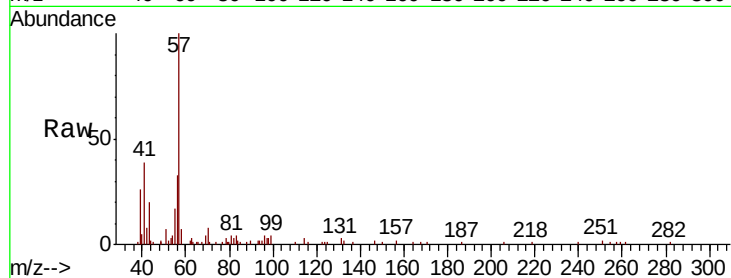




#44
 2,2,4-Trimethylpentane
 Concen: 0.089 ppbv
 RT: 7.87 min Scan# 1580
 Delta R.T. 0.00 min
 Lab File: VL036247.D
 Acq: 20 Jan 2021 15:13

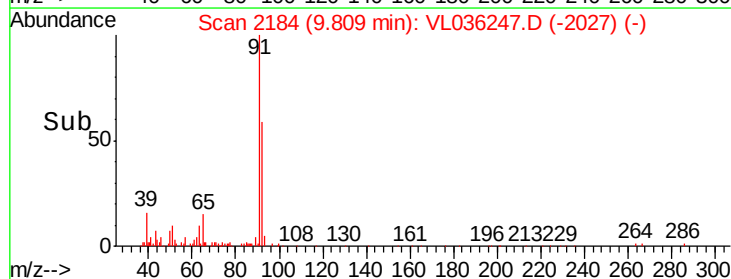
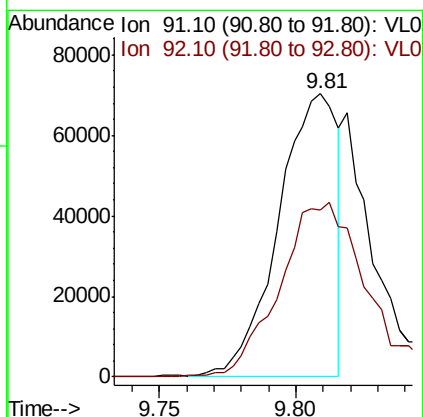
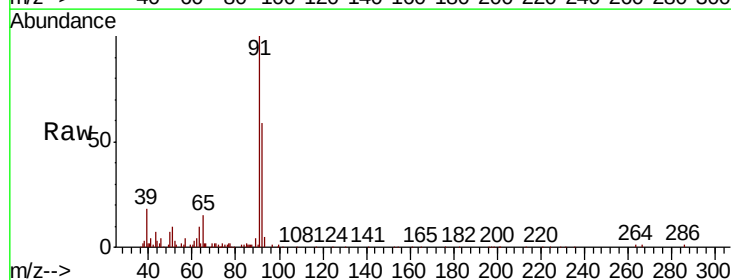
Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1DUP

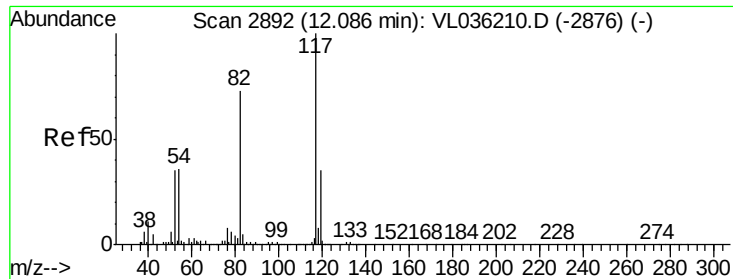
Tot Ion	57	Resp	43667
Ion Ratio	Lower	Upper	
57	100		
41	67.1	28.5	42.7#
56	52.2	25.5	38.3#



#53
 Toluene
 Concen: 0.352 ppbv
 RT: 9.81 min Scan# 2184
 Delta R.T. 0.01 min
 Lab File: VL036247.D
 Acq: 20 Jan 2021 15:13

Tgt Ion	91	Resp	105040
Ion Ratio	Lower	Upper	
91	100		
92	92.8	48.5	72.7#

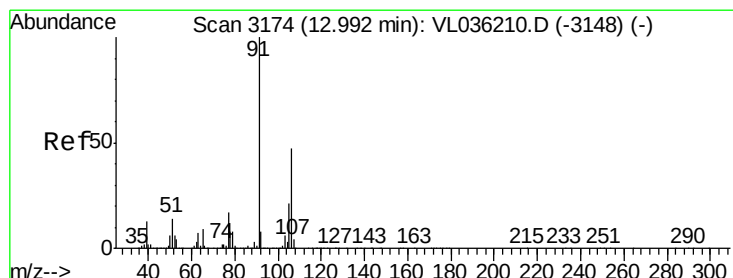
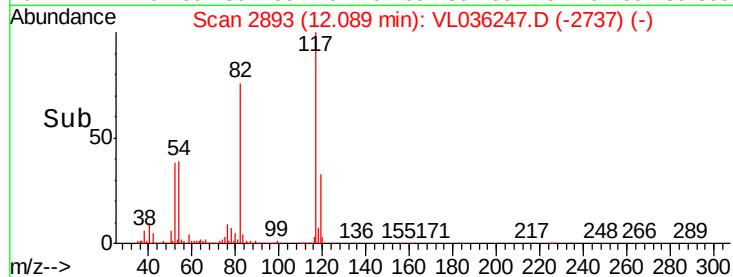
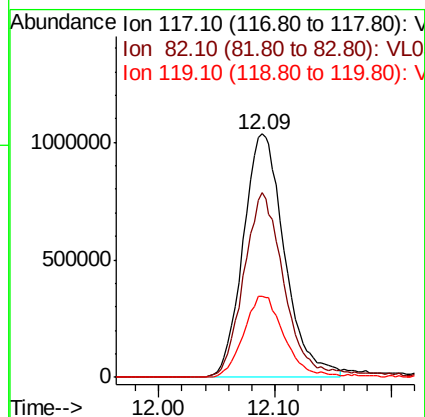
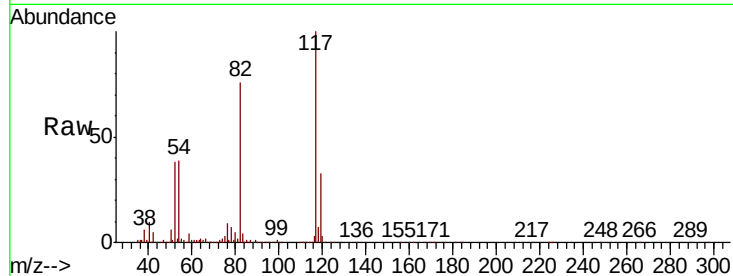




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. 0.00 min
Lab File: VL036247.D
Acq: 20 Jan 2021 15:13

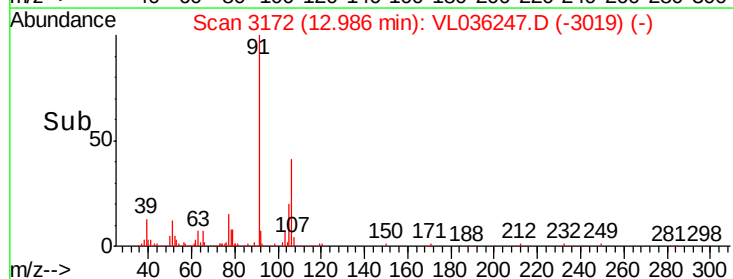
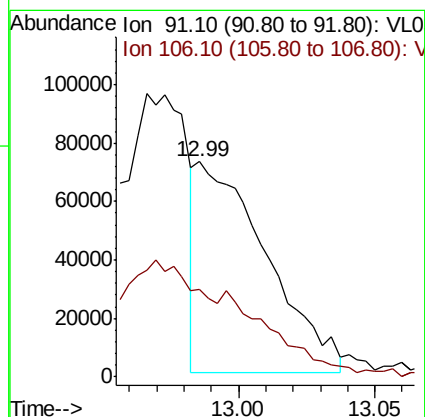
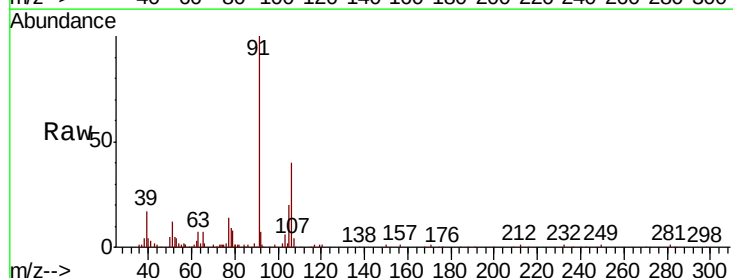
Instrument :
MSVOA_L
ClientSampleId :
AA-1DUP

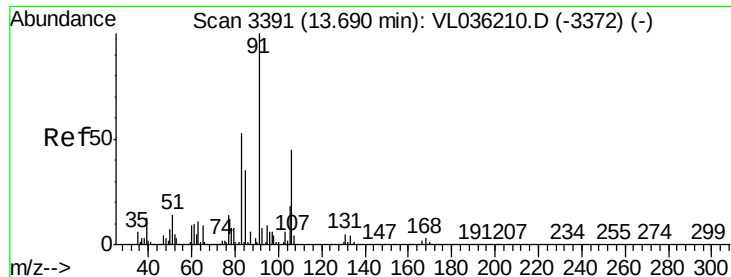
Tot Ion:117 Resp: 2571913
Ion Ratio Lower Upper
117 100
82 76.0 59.7 89.5
119 33.7 28.6 43.0



#59
m/p-Xylene
Concen: 0.390 ppbv
RT: 12.99 min Scan# 3172
Delta R.T. -0.01 min
Lab File: VL036247.D
Acq: 20 Jan 2021 15:13

Tgt Ion: 91 Resp: 127759
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#





#60

o-Xylene

Concen: 0.284 ppbv

RT: 13.70 min Scan# 3393

Delta R.T. 0.01 min

Lab File: VL036247.D

Acq: 20 Jan 2021 15:13

Instrument :

MSVOA_L

ClientSampleId :

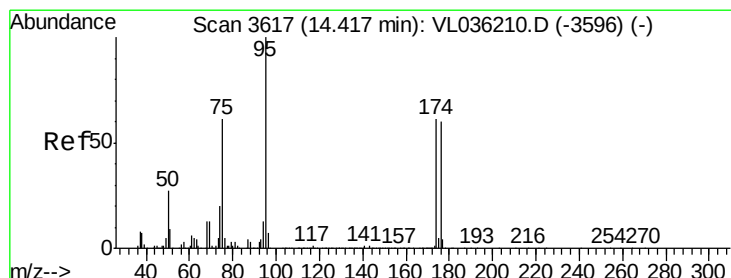
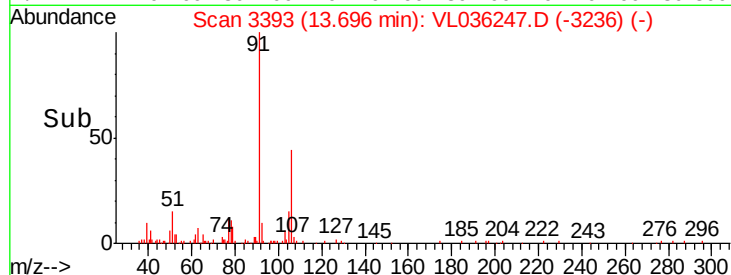
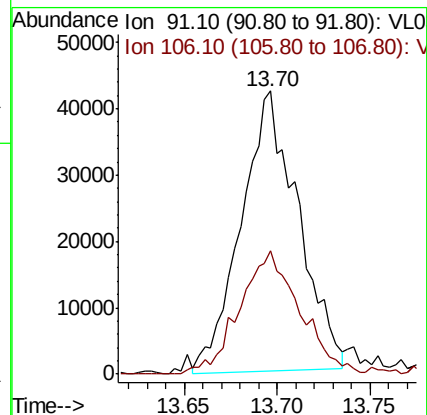
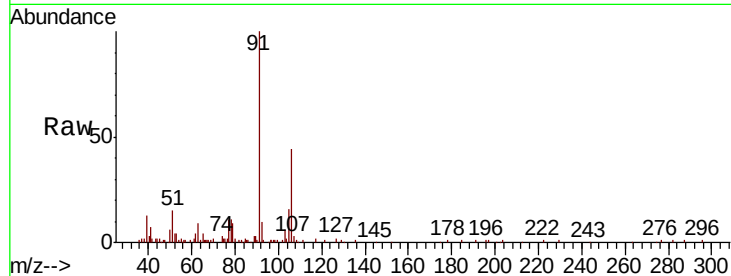
AA-1DUP

Tot Ion: 91 Resp: 89806

Ion Ratio Lower Upper

91 100

106 46.5 21.9 65.8



#68

1-Bromo-4-Fluorobenzene

Concen: 10.019 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. 0.00 min

Lab File: VL036247.D

Acq: 20 Jan 2021 15:13

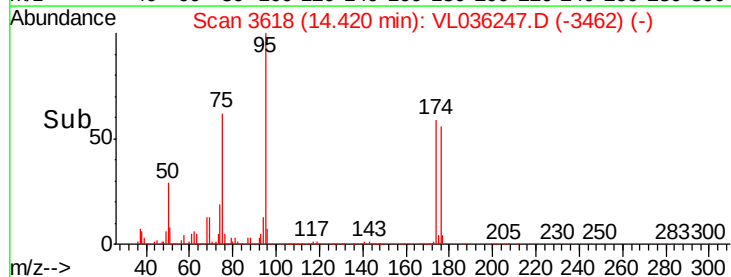
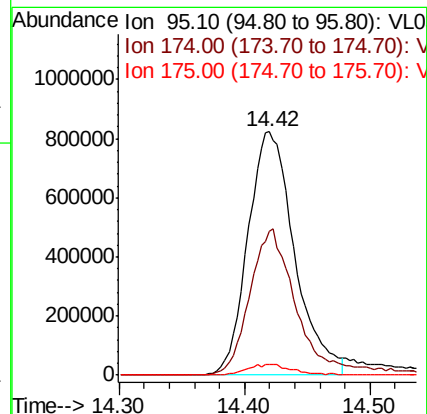
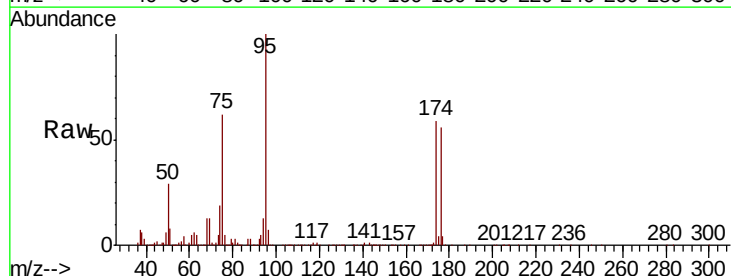
Tgt Ion: 95 Resp: 2132940

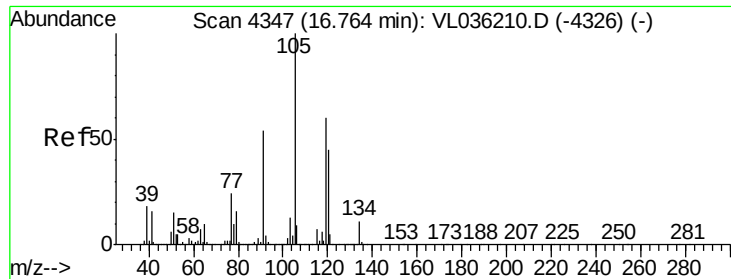
Ion Ratio Lower Upper

95 100

174 63.3 49.4 74.0

175 4.5 3.8 5.8





#74

1,2,4-Trimethylbenzene

Concen: 0.130 ppbv

RT: 16.77 min Scan# 4350

Delta R.T. 0.01 min

Lab File: VL036247.D

Acq: 20 Jan 2021 15:13

Instrument :

MSVOA_L

ClientSampleId :

AA-1DUP

Tot Ion:105 Resp: 45374

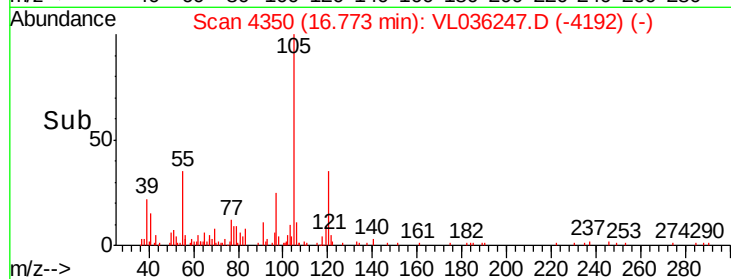
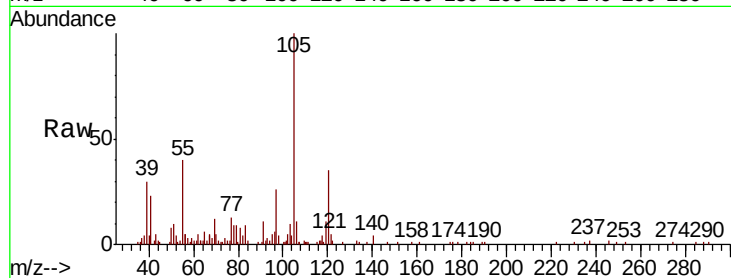
Ion Ratio Lower Upper

105 100

120 23.5 36.2 54.2#

91 5.0 43.3 64.9#

77 0.3 19.1 28.7#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

