

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022521\
 Data File : VL036391.D
 Acq On : 25 Feb 2021 21:19
 Operator : SY/AP
 Sample : M1458-13 0.1LOD
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 26 00:39:26 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1473307	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3234664	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2929432	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2368875	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.03	85	33658	0.153	ppbv 90
3) Chlorodifluoromethane	2.97	51	27106	0.148	ppbv 96
4) Chloromethane	3.13	50	6582	0.074	ppbv # 79
5) Vinyl Chloride	3.25	62	9153	0.111	ppbv 99
6) Bromomethane	3.46	94	4279	0.087	ppbv # 75
7) Chloroethane	3.55	64	2555	0.087	ppbv # 73
8) Dichlorotetrafluoroethane	3.17	85	29084	0.145	ppbv 96
9) Propene	2.99	41	5424	0.079	ppbv # 15
10) Heptane	8.10	43	8420	0.042	ppbv # 1
11) Trichlorofluoromethane	3.93	101	23880	0.111	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	10403	0.078	ppbv # 13
14) Bromoethene	3.73	108	3013	0.054	ppbv # 1
15) Acetone	3.86	43	27276	0.151	ppbv # 50
16) 1,3-Butadiene	3.31	39	2891	0.034	ppbv # 1
18) 1,1-Dichloroethene	4.27	96	4114	0.068	ppbv # 61
20) Methylene Chloride	4.33	84	12270	0.211	ppbv # 76
21) Allyl Chloride	4.40	41	7811	0.078	ppbv # 16
22) trans-1,2-Dichloroethene	4.87	96	1859	0.034	ppbv # 1
23) Vinyl Acetate	5.06	43	6705	0.032	ppbv # 80
25) Ethyl Acetate	5.66	43	11980	0.034	ppbv # 46
26) Hexane	5.67	57	13448	0.094	ppbv # 52
27) Carbon Disulfide	4.53	76	4948	0.038	ppbv # 1
28) Methyl tert-Butyl Ether	5.03	73	6939	0.037	ppbv # 1
29) Chloroform	5.74	83	24638	0.107	ppbv 95
30) Cyclohexane	7.11	84	4123	0.035	ppbv # 1
32) 1,1,1-Trichloroethane	6.49	97	22201	0.103	ppbv # 78
35) Carbon Tetrachloride	7.00	117	22111	0.102	ppbv 94
37) 1,2-Dichloroethane	6.29	62	10897	0.064	ppbv # 71
38) Trichloroethene	7.82	130	8424	0.086	ppbv # 54
39) 1,2-Dichloropropane	7.16	63	936749	8.392	ppbv # 23
43) Methyl Methacrylate	8.01	69	5498	0.047	ppbv # 17
47) 1,1,2-Trichloroethane	9.45	97	3759	0.033	ppbv # 54
52) Tetrachloroethene	11.20	164	3737	0.037	ppbv # 51
53) Toluene	9.78	91	12432	0.042	ppbv # 23
56) 1,1,1,2-Tetrachloroethane	12.11	131	9268	0.069	ppbv # 1
57) Chlorobenzene	12.13	112	23610	0.104	ppbv # 73
60) o-Xylene	13.67	91	32762	0.097	ppbv 94
62) Isopropylbenzene	14.65	105	47892	0.095	ppbv 99
63) 1,1,2,2-Tetrachloroethane	13.66	83	20267	0.076	ppbv # 39
69) p-Isopropyltoluene	17.65	119	17139	0.036	ppbv # 30
72) 4-Ethyltoluene	15.83	105	11957	0.032	ppbv # 8

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QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration

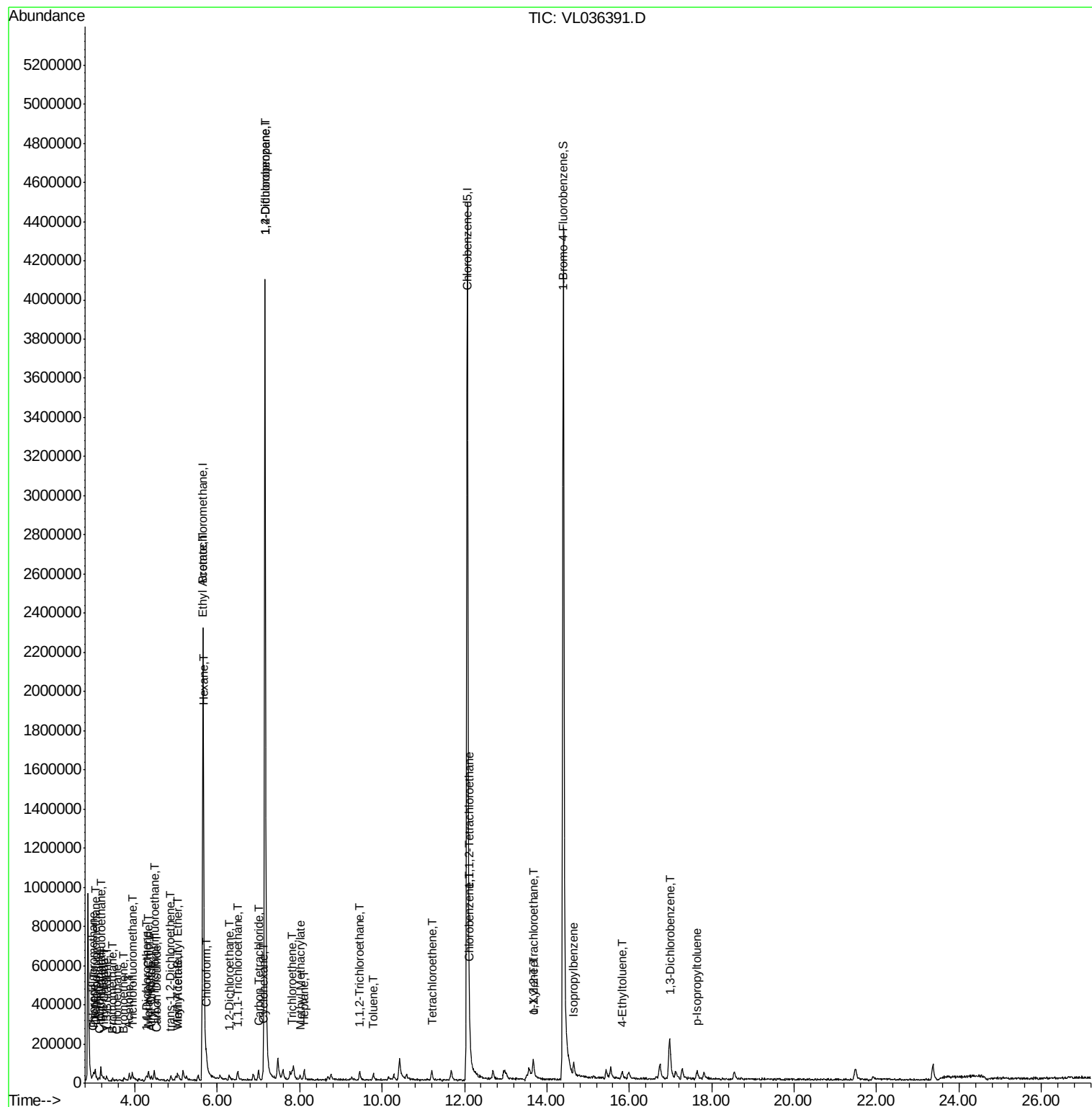
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 1,3-Dichlorobenzene	16.99	146	6648	0.033	ppbv	# 22

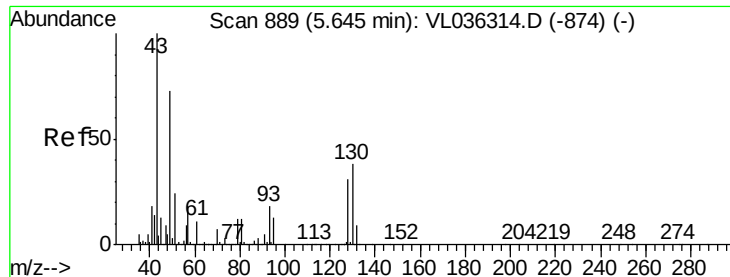
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.01 min

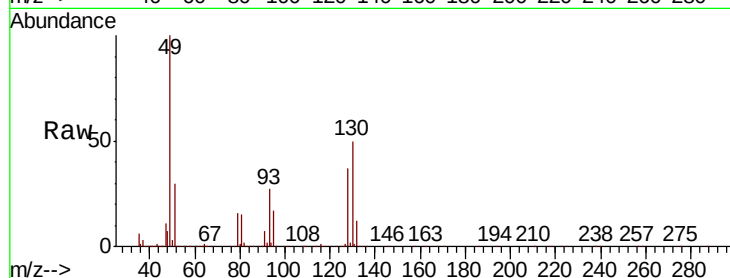
Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1473307

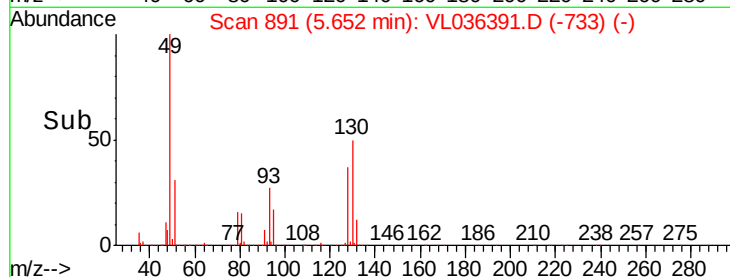
Ion	Ratio	Lower	Upper
49	100		
128	41.9	20.8	62.5
130	54.3	26.7	80.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

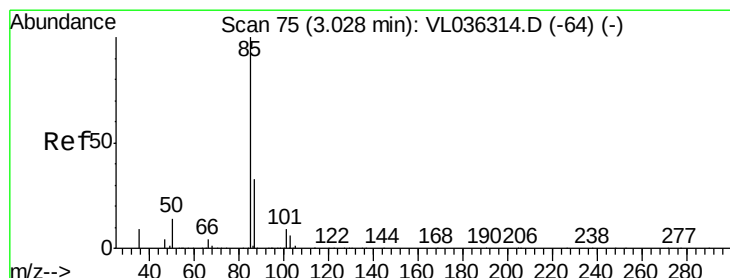
Ion 130.00 (129.70 to 130.70): V



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: 0.153 ppbv

RT: 3.03 min Scan# 77

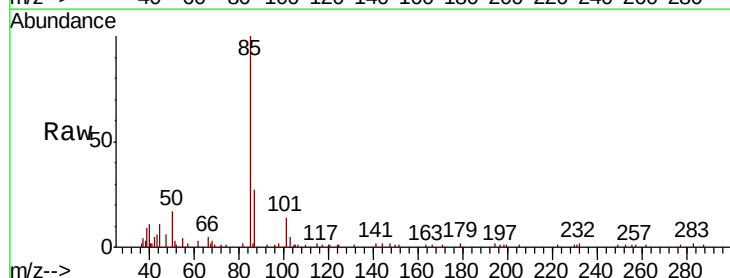
Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

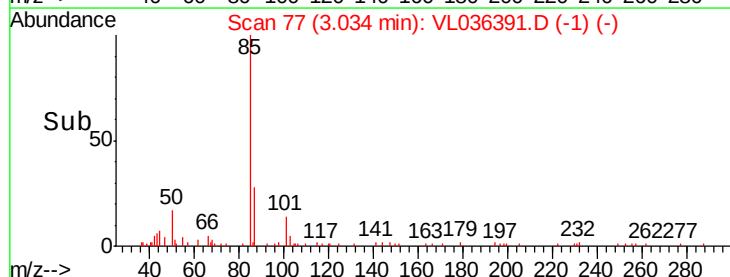
Tgt Ion: 85 Resp: 33658

Ion	Ratio	Lower	Upper
85	100		
87	27.5	26.5	39.7



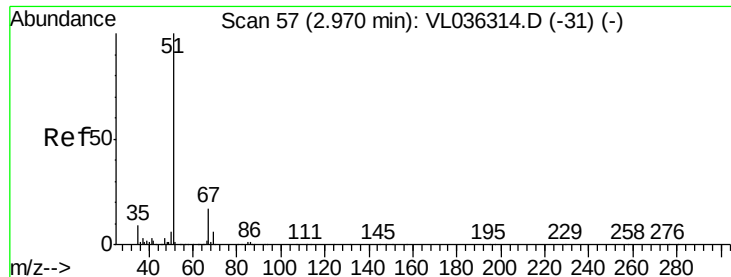
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



#3

Chlorodifluoromethane

Concen: 0.148 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

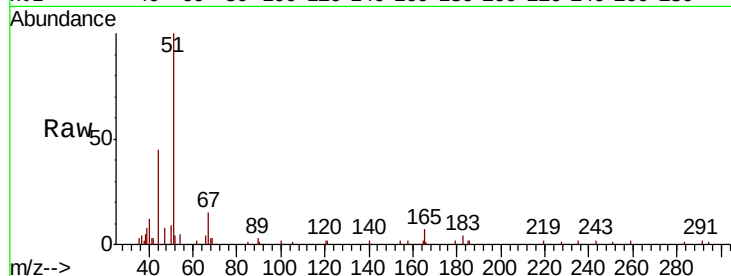
ClientSampleId :

Tot Ion: 51 Resp: 27106

Ion Ratio Lower Upper

51 100

67 20.4 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.97

15000

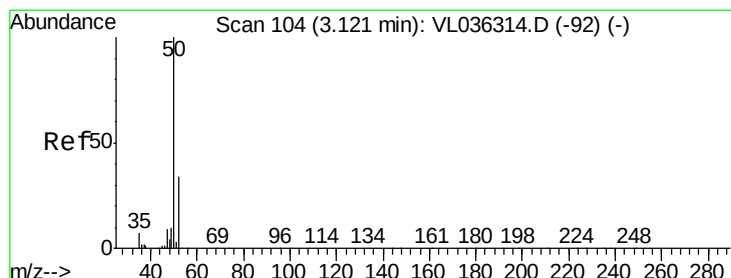
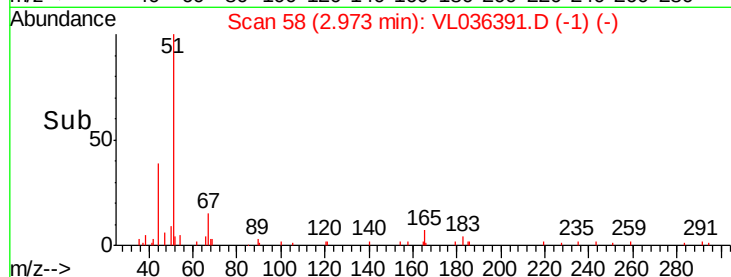
10000

5000

0

2.90 3.00 3.10

Time-->



#4

Chloromethane

Concen: 0.074 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.01 min

Lab File: VL036391.D

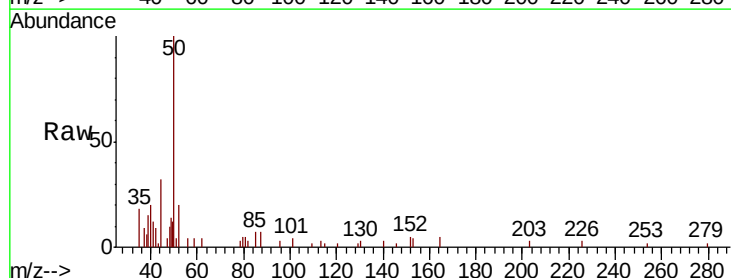
Acq: 25 Feb 2021 21:19

Tgt Ion: 50 Resp: 6582

Ion Ratio Lower Upper

50 100

52 21.4 27.0 40.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.13

8000

6000

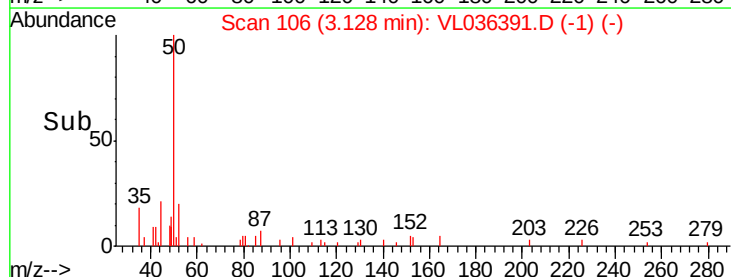
4000

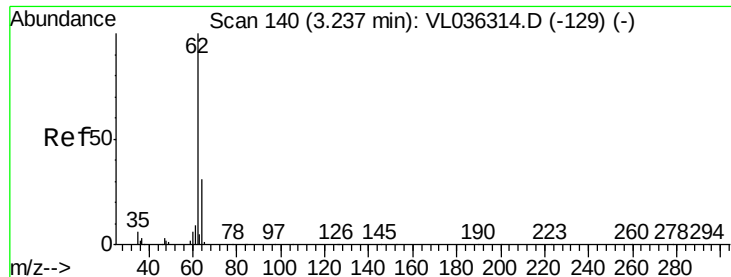
2000

0

3.10 3.12 3.14

Time-->





#5

Vinyl Chloride

Concen: 0.111 ppbv

RT: 3.25 min Scan# 144

Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

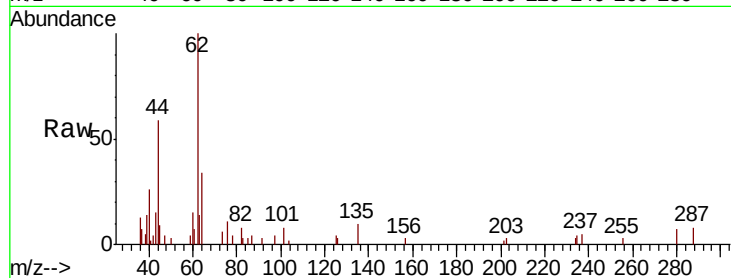
ClientSampleId :

Tot Ion: 62 Resp: 9153

Ion Ratio Lower Upper

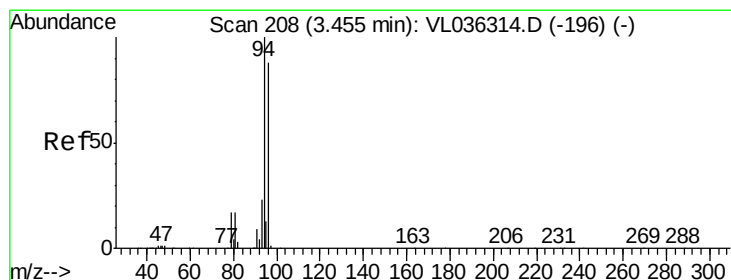
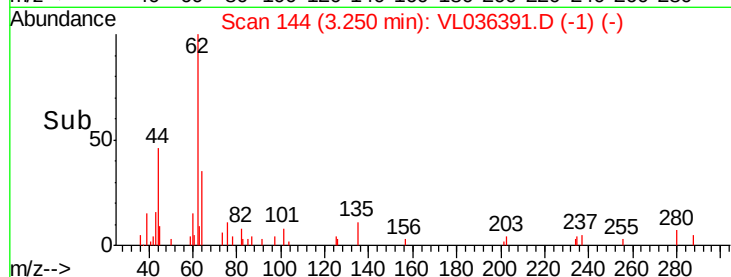
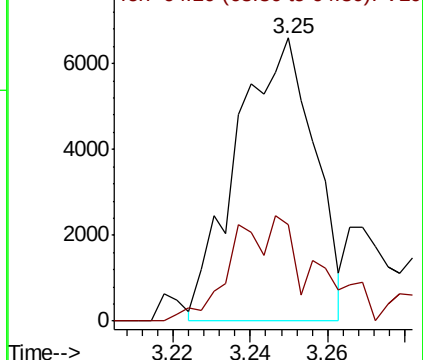
62 100

64 30.1 24.4 36.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.087 ppbv

RT: 3.46 min Scan# 209

Delta R.T. 0.00 min

Lab File: VL036391.D

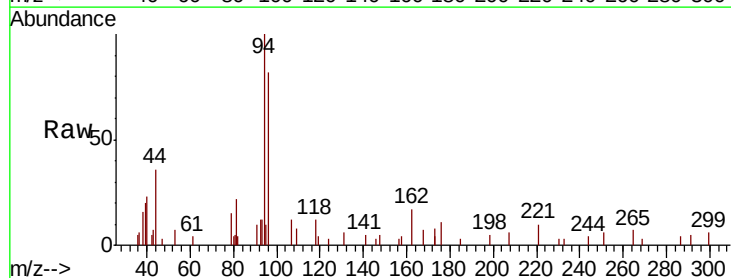
Acq: 25 Feb 2021 21:19

Tgt Ion: 94 Resp: 4279

Ion Ratio Lower Upper

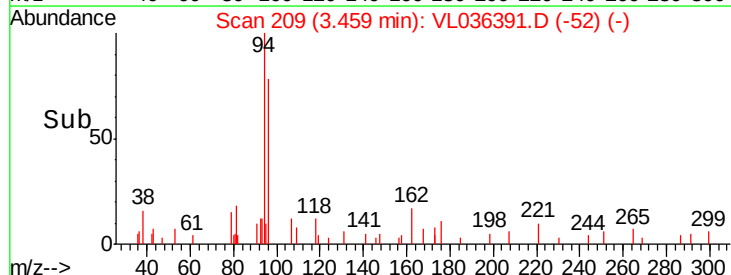
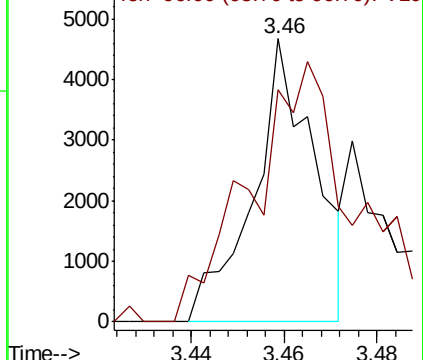
94 100

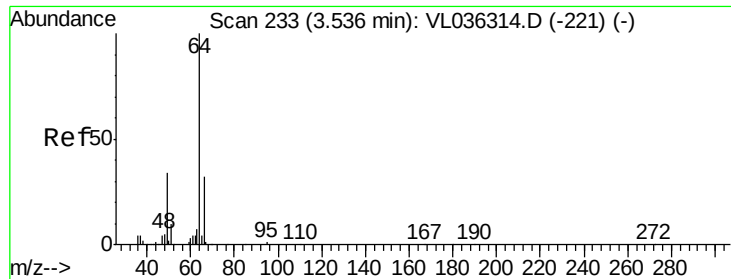
96 65.5 70.8 106.2#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.087 ppbv

RT: 3.55 min Scan# 236

Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

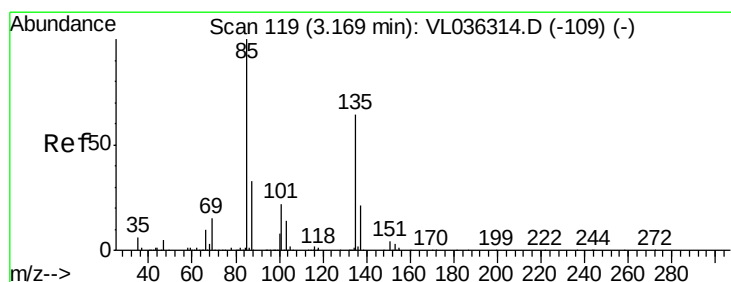
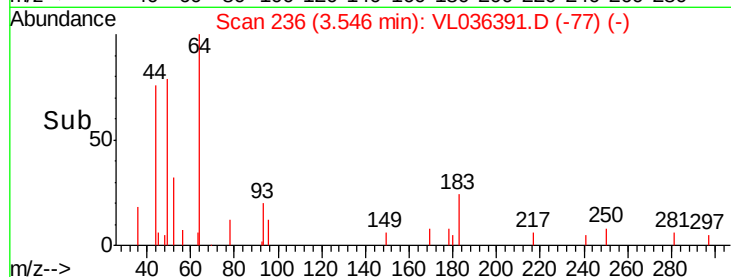
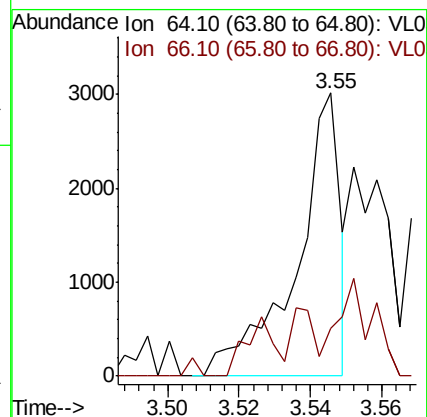
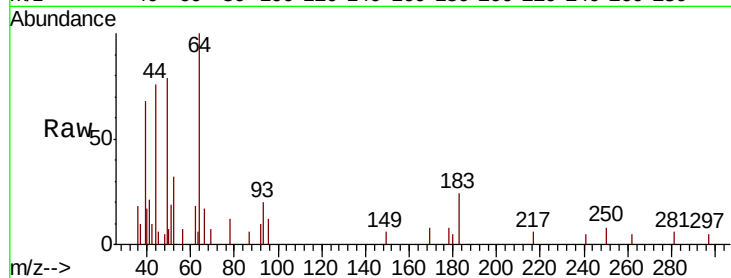
ClientSampleId :

Tot Ion: 64 Resp: 2555

Ion Ratio Lower Upper

64 100

66 17.0 25.6 38.4#



#8

Dichlorotetrafluoroethane

Concen: 0.145 ppbv

RT: 3.17 min Scan# 120

Delta R.T. 0.00 min

Lab File: VL036391.D

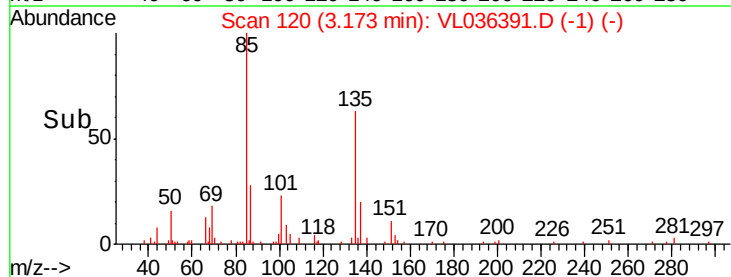
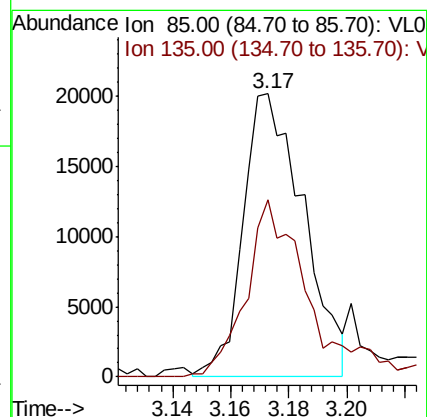
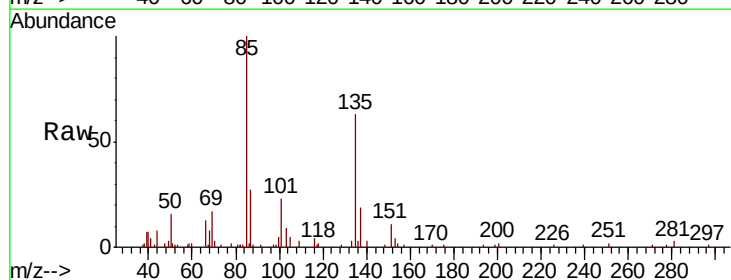
Acq: 25 Feb 2021 21:19

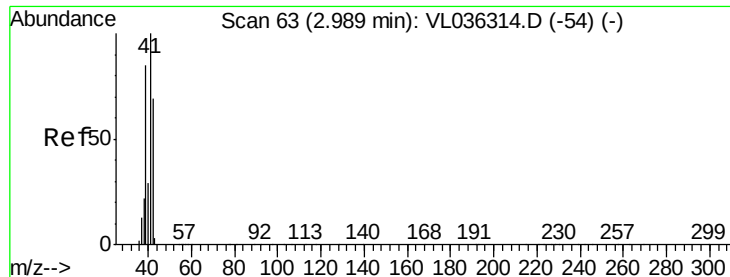
Tgt Ion: 85 Resp: 29084

Ion Ratio Lower Upper

85 100

135 66.8 51.1 76.7





#9

Propene

Concen: 0.079 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

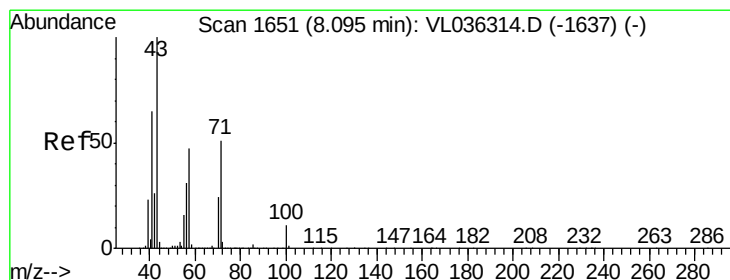
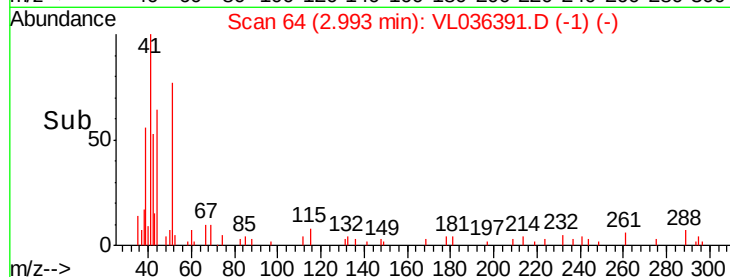
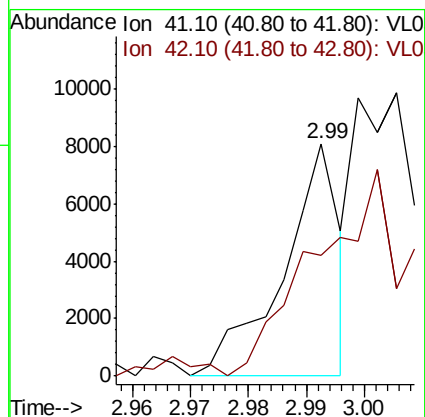
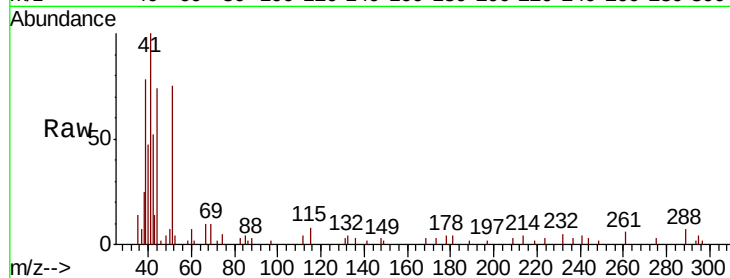
ClientSampleId :

Tot Ion: 41 Resp: 5424

Ion Ratio Lower Upper

41 100

42 0.0 56.2 84.2#



#10

Heptane

Concen: 0.042 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. 0.01 min

Lab File: VL036391.D

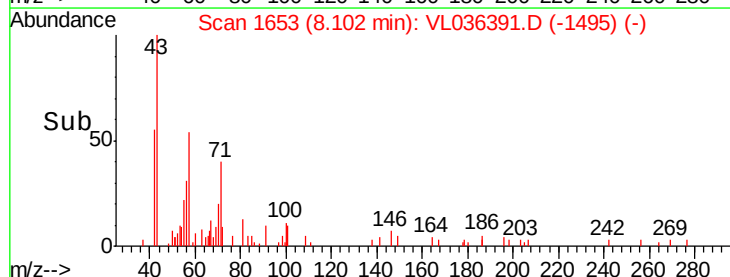
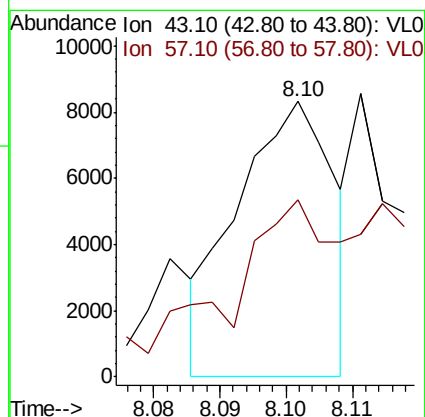
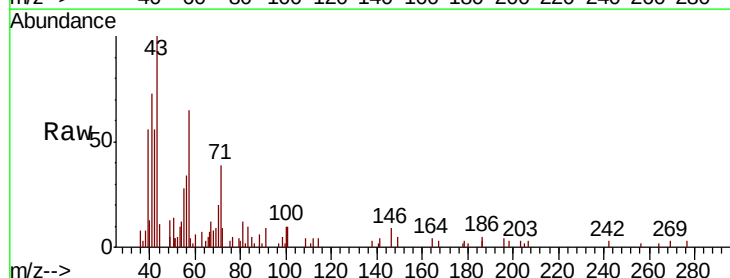
Acq: 25 Feb 2021 21:19

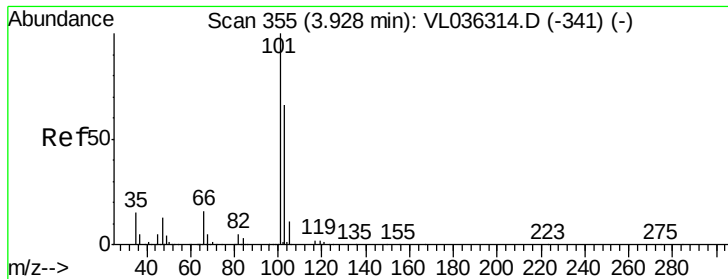
Tgt Ion: 43 Resp: 8420

Ion Ratio Lower Upper

43 100

57 141.7 39.4 59.2#

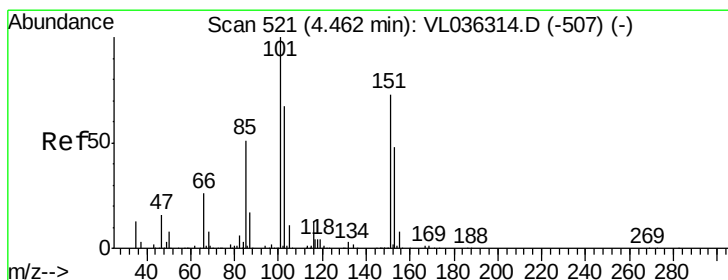
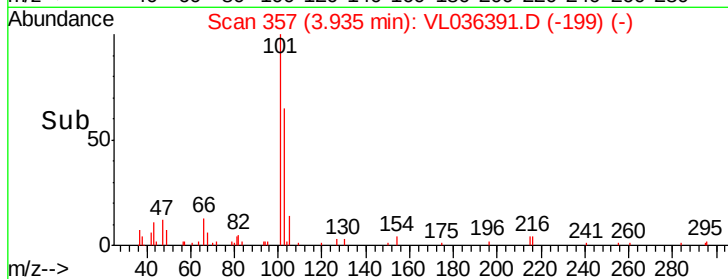
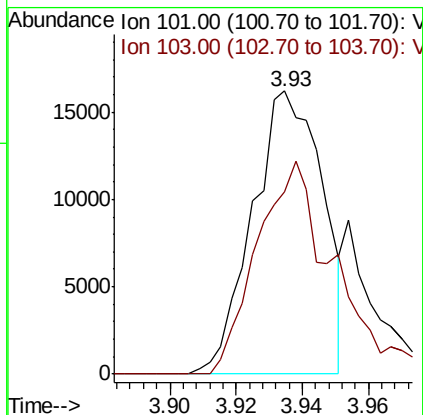
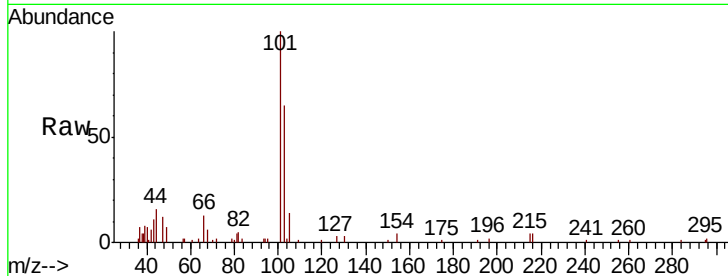




#11
 Trichlorofluoromethane
 Concen: 0.111 ppbv
 RT: 3.93 min Scan# 357
 Delta R.T. 0.01 min
 Lab File: VL036391.D
 Acq: 25 Feb 2021 21:19

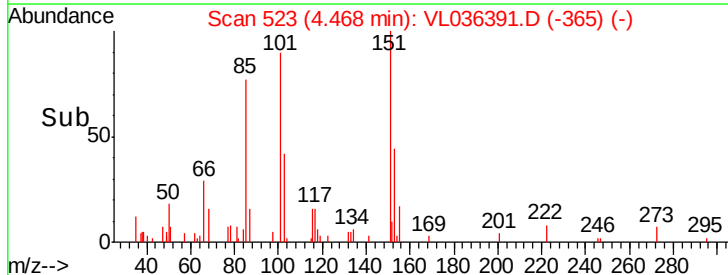
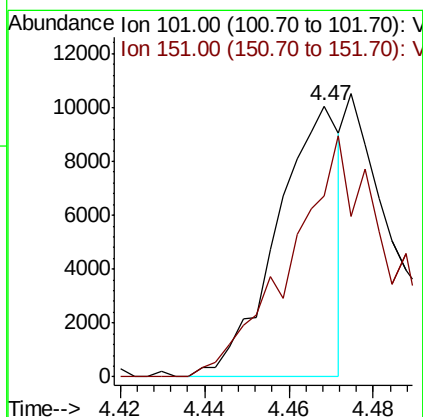
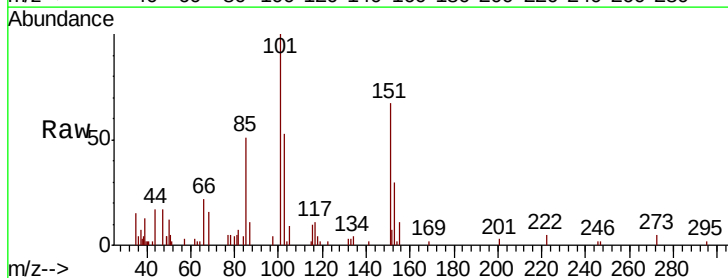
Instrument :
 MSVOA_L
 ClientSampleId :

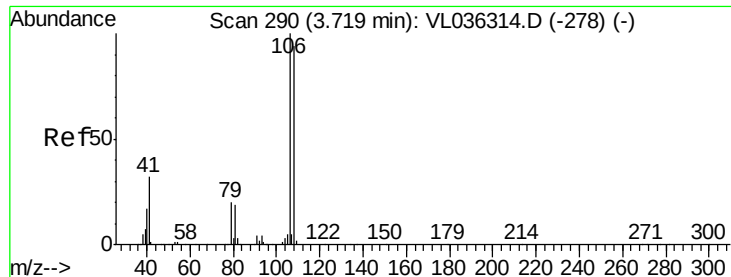
Tot Ion:101 Resp: 23880
 Ion Ratio Lower Upper
 101 100
 103 64.6 52.9 79.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.078 ppbv
 RT: 4.47 min Scan# 523
 Delta R.T. 0.01 min
 Lab File: VL036391.D
 Acq: 25 Feb 2021 21:19

Tgt Ion:101 Resp: 10403
 Ion Ratio Lower Upper
 101 100
 151 0.0 58.2 87.4#





#14

Bromoethene

Concen: 0.054 ppbv

RT: 3.73 min Scan# 292

Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

ClientSampleId :

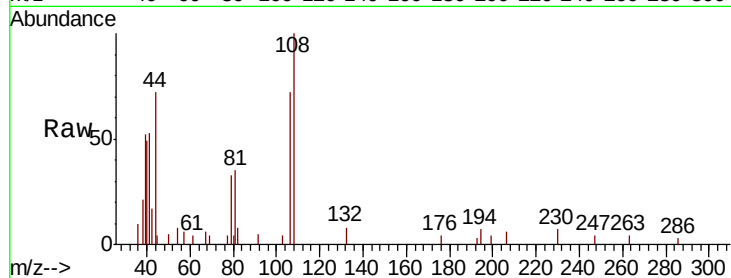
Tot Ion:108 Resp: 3013

Ion Ratio Lower Upper

108 100

106 0.0 89.8 134.8#

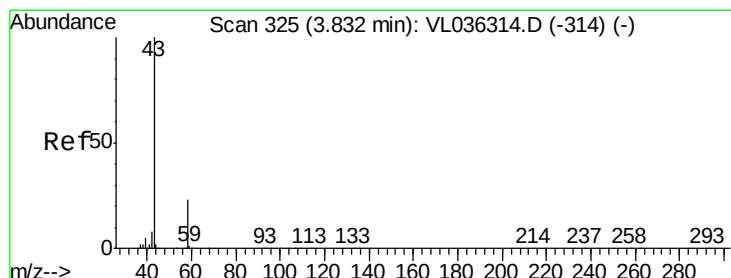
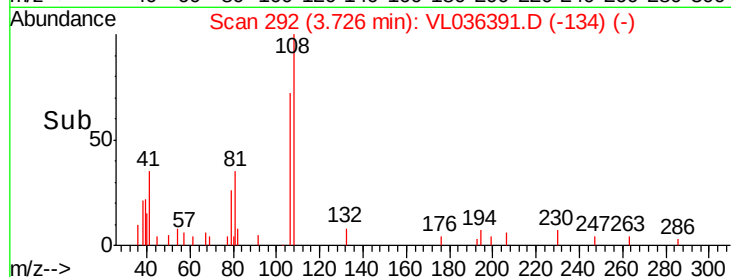
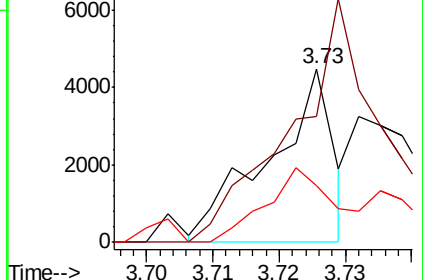
79 102.8 17.1 25.7#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): V



#15

Acetone

Concen: 0.151 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.03 min

Lab File: VL036391.D

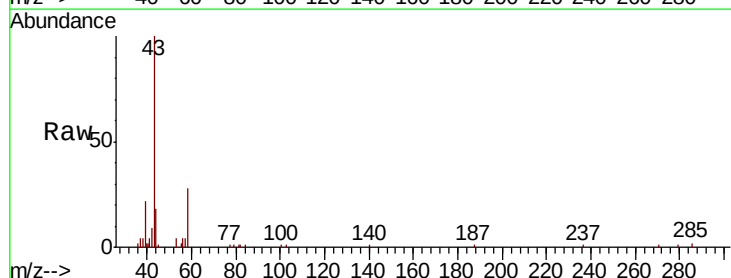
Acq: 25 Feb 2021 21:19

Tgt Ion: 43 Resp: 27276

Ion Ratio Lower Upper

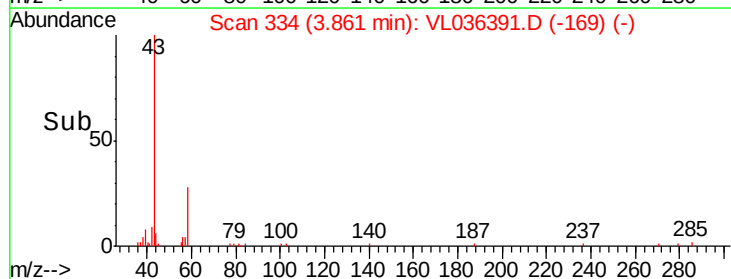
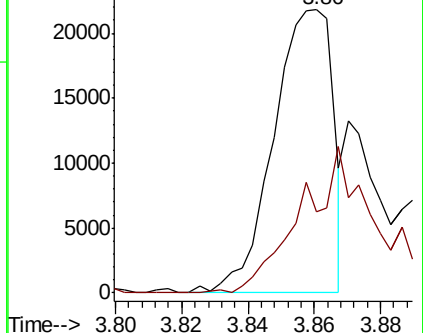
43 100

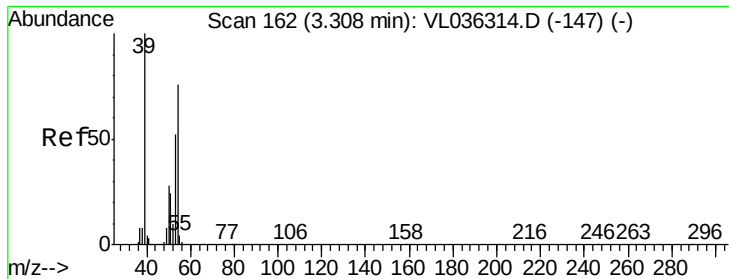
58 0.0 20.3 30.5#



Abundance Ion 43.10 (42.80 to 43.80): V

Ion 58.10 (57.80 to 58.80): V





#16

1,3-Butadiene

Concen: 0.034 ppbv

RT: 3.31 min Scan# 164

Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

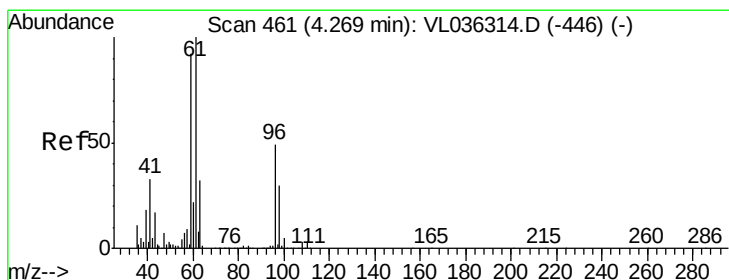
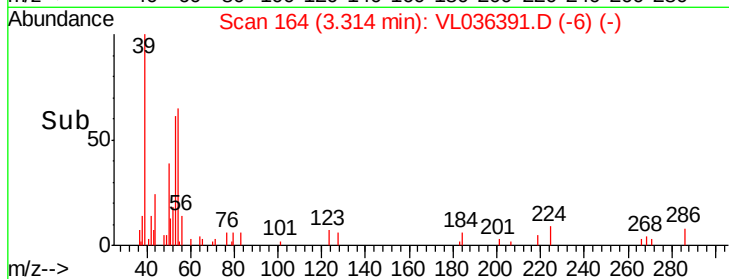
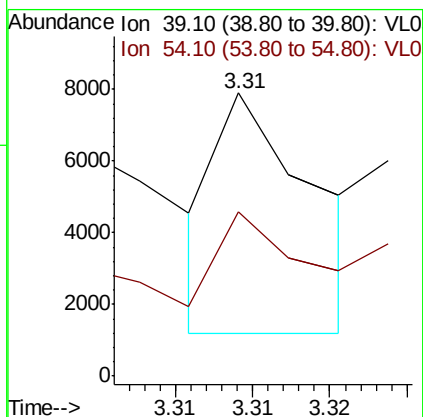
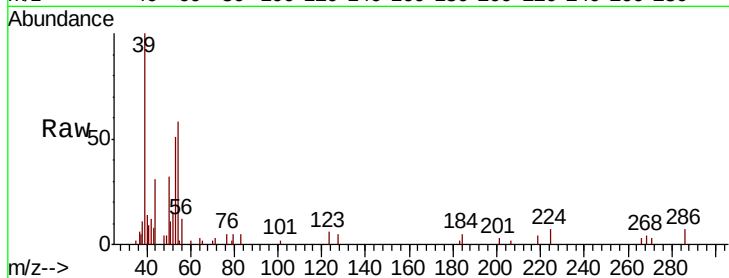
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 39 Resp: 2891

Ion Ratio Lower Upper

39 100

54 233.1 64.4 96.6#



#18

1,1-Dichloroethene

Concen: 0.068 ppbv

RT: 4.27 min Scan# 462

Delta R.T. 0.00 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

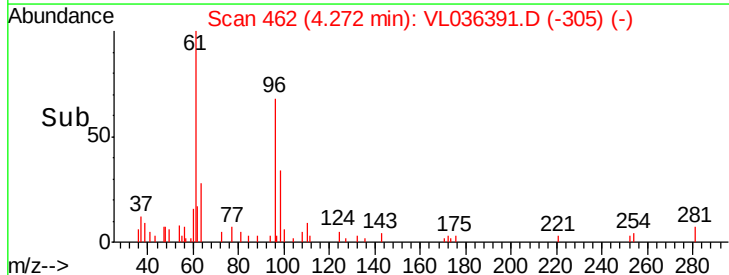
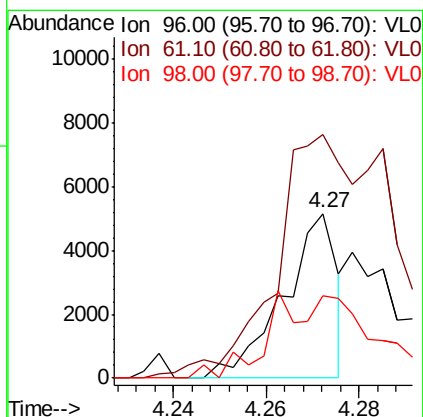
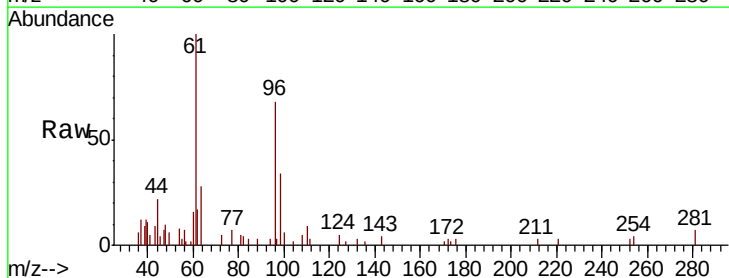
Tgt Ion: 96 Resp: 4114

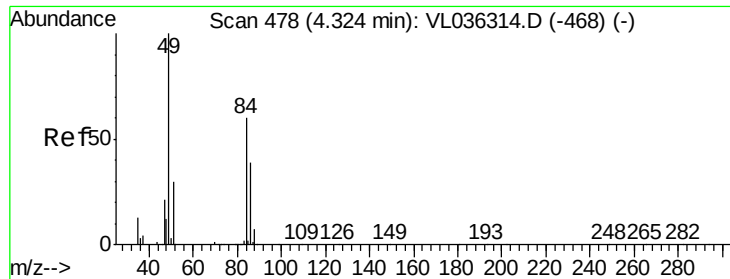
Ion Ratio Lower Upper

96 100

61 134.0 162.5 243.7#

98 48.3 48.5 72.7#

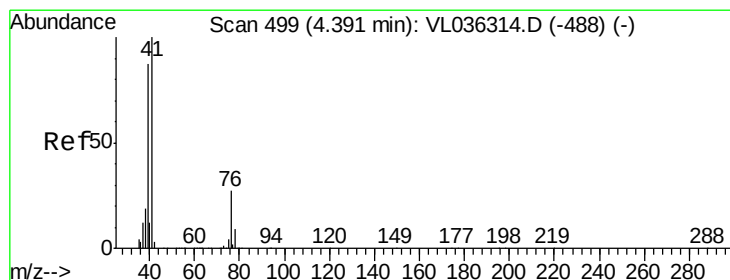
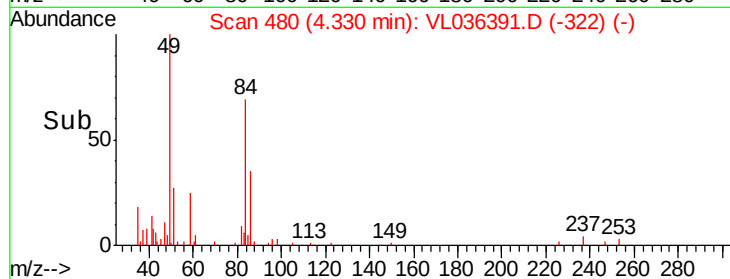
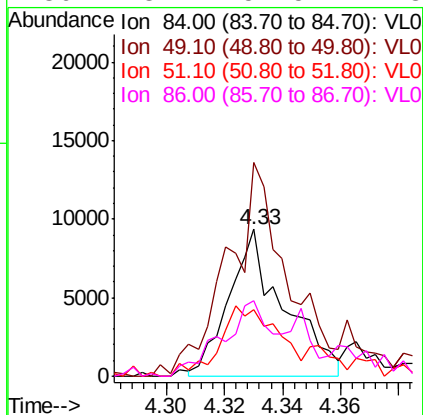
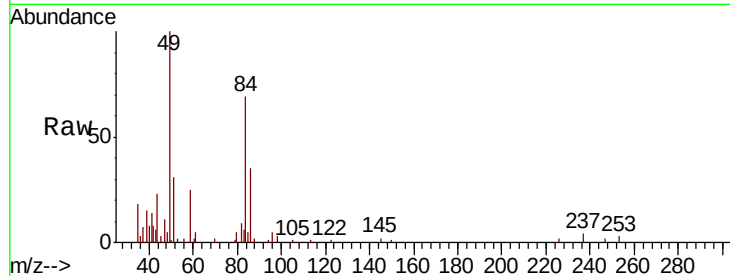




#20
Methylene Chloride
Concen: 0.211 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.01 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

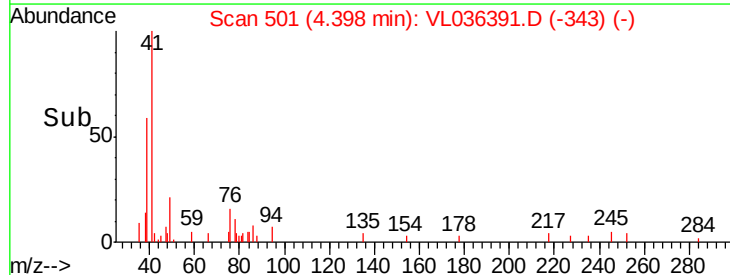
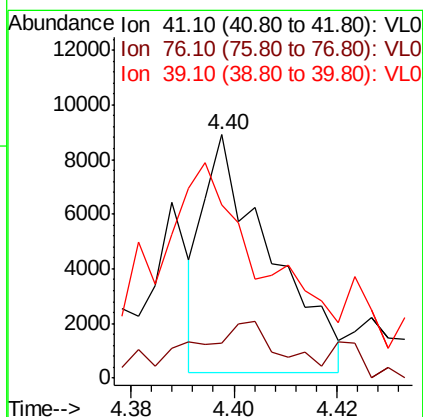
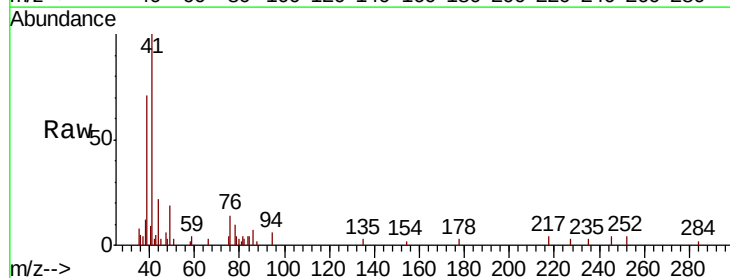
Instrument :
MSVOA_L
ClientSampleId :

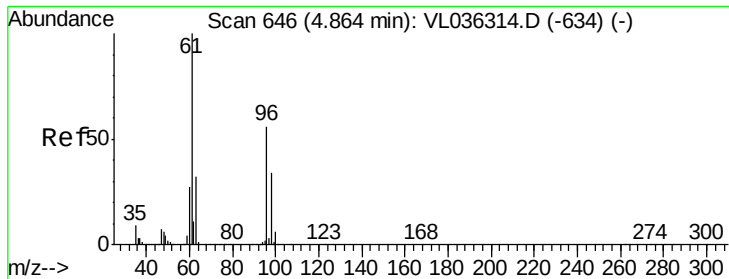
Tot Ion: 84 Resp: 12270
Ion Ratio Lower Upper
84 100
49 131.2 133.8 200.8#
51 42.0 41.4 62.0
86 43.2 51.5 77.3#



#21
Allyl Chloride
Concen: 0.078 ppbv
RT: 4.40 min Scan# 501
Delta R.T. 0.01 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tgt Ion: 41 Resp: 7811
Ion Ratio Lower Upper
41 100
76 41.7 22.0 33.0#
39 182.8 70.2 105.2#





#22

trans-1,2-Dichloroethene

Concen: 0.034 ppbv

RT: 4.87 min Scan# 647

Delta R.T. 0.00 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

ClientSampled :

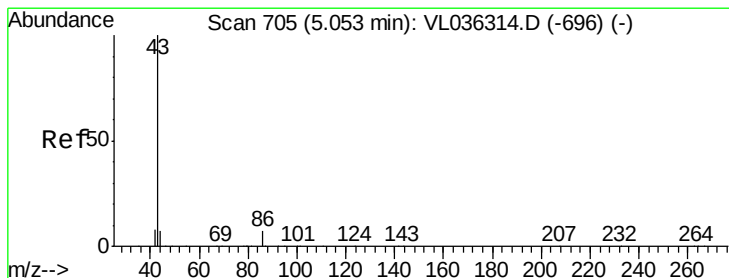
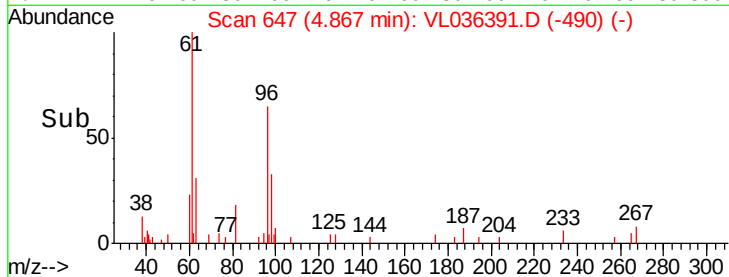
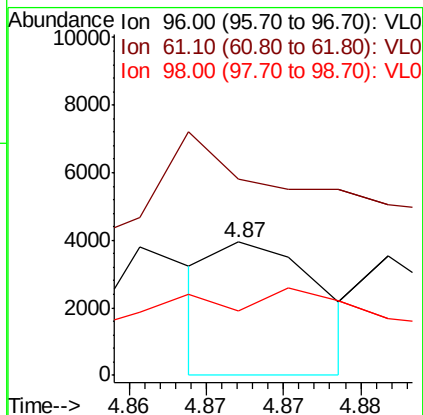
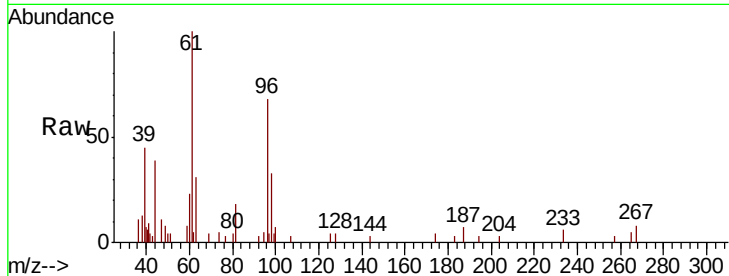
Tot Ion: 96 Resp: 1859

Ion Ratio Lower Upper

96 100

61 18.4 143.7 215.5#

98 0.0 48.5 72.7#



#23

Vinyl Acetate

Concen: 0.032 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Tgt Ion: 43 Resp: 6705

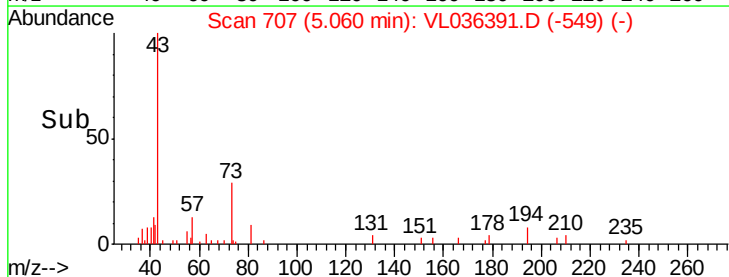
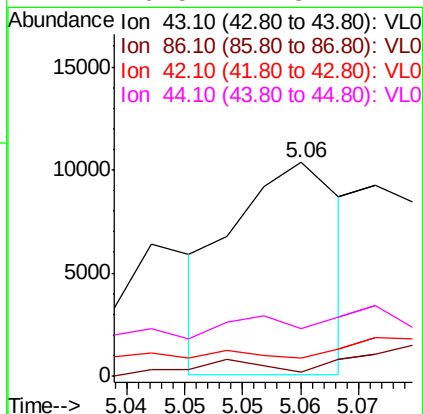
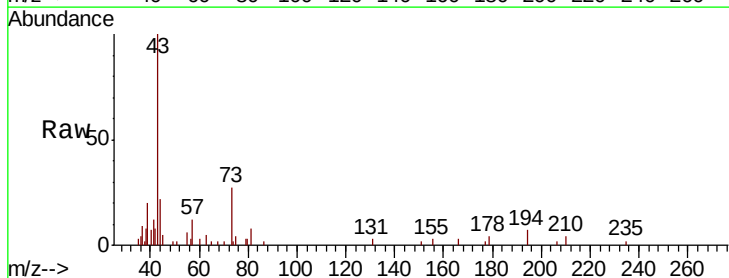
Ion Ratio Lower Upper

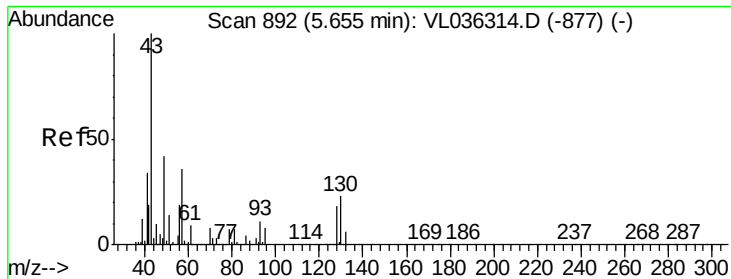
43 100

86 0.0 4.8 7.2#

42 0.0 7.4 11.0#

44 10.5 4.8 7.2#





#25

Ethyl Acetate

Concen: 0.034 ppbv

RT: 5.66 min Scan# 895

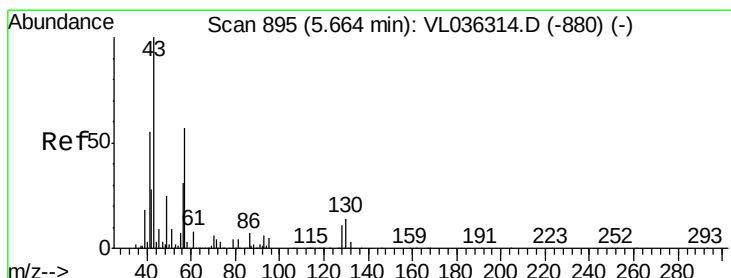
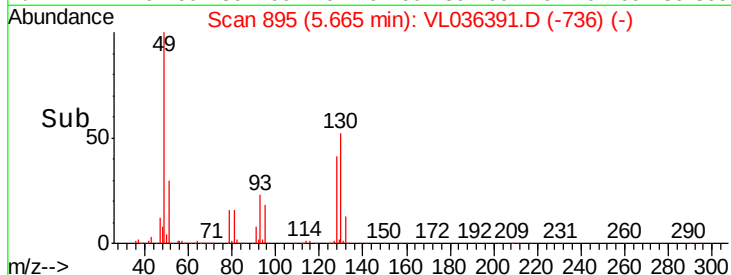
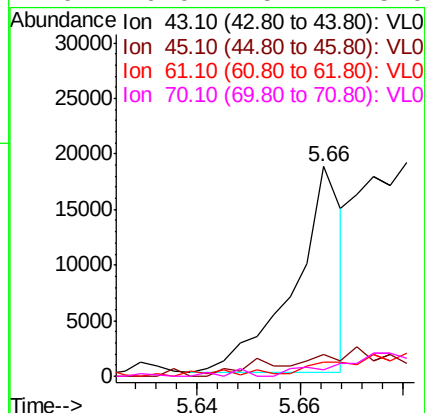
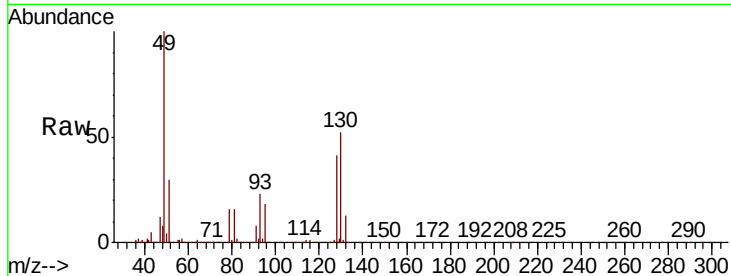
Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	43	Resp:	11980
Ion	Ratio	Lower	Upper
43	100		
45	48.3	8.3	12.5#
61	0.0	7.3	10.9#
70	0.0	5.4	8.0#



#26

Hexane

Concen: 0.094 ppbv

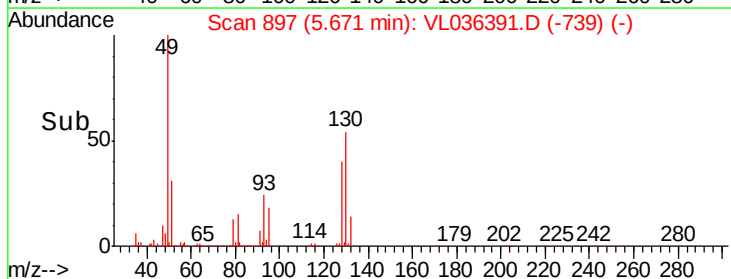
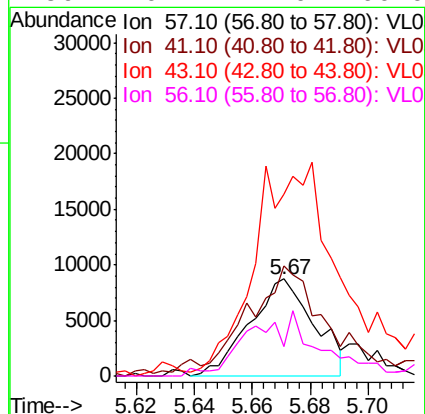
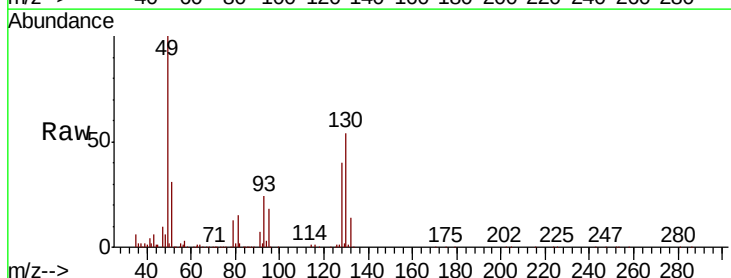
RT: 5.67 min Scan# 897

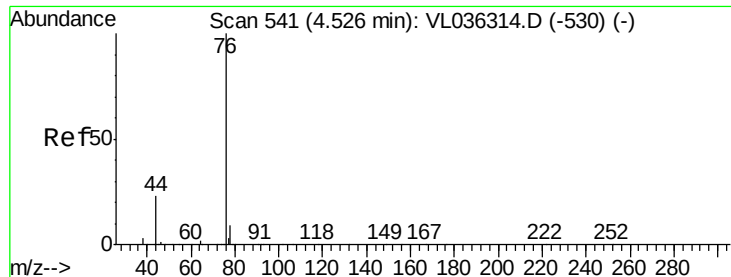
Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Tgt Ion:	57	Resp:	13448
Ion	Ratio	Lower	Upper
57	100		
41	159.2	81.7	122.5#
43	334.1	199.1	298.7#
56	76.7	44.0	66.0#





#27

Carbon Disulfide

Concen: 0.038 ppbv

RT: 4.53 min Scan# 543

Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

ClientSampleId :

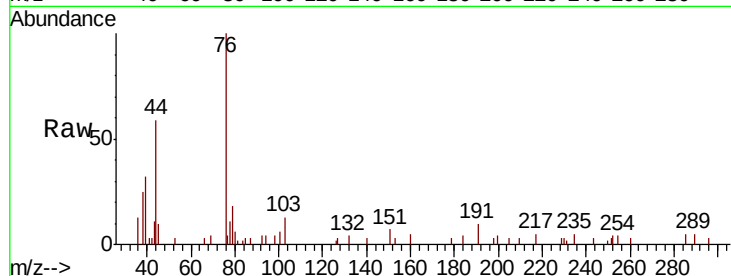
Tot Ion: 76 Resp: 4948

Ion Ratio Lower Upper

76 100

44 126.2 18.4 27.6#

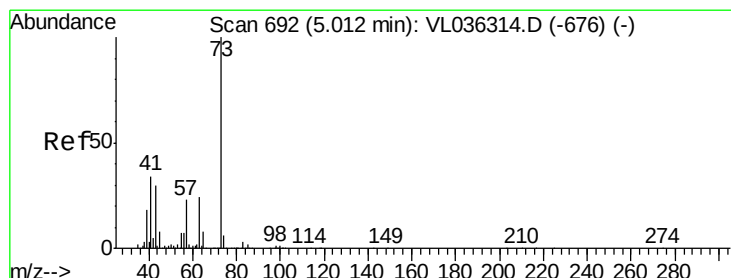
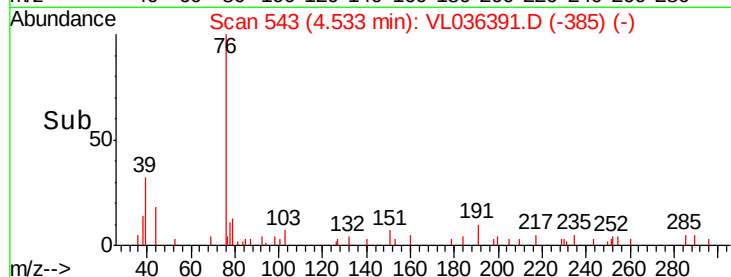
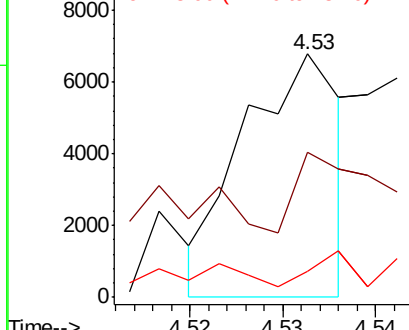
78 45.0 8.0 12.0#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.037 ppbv

RT: 5.03 min Scan# 698

Delta R.T. 0.02 min

Lab File: VL036391.D

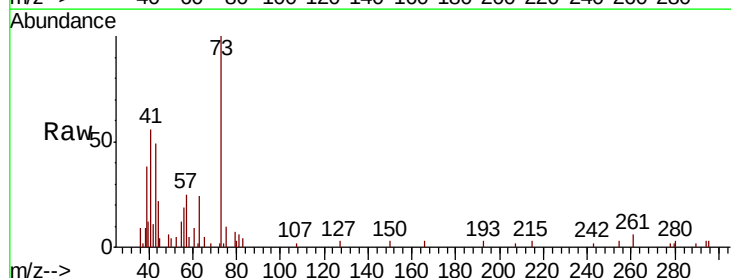
Acq: 25 Feb 2021 21:19

Tgt Ion: 73 Resp: 6939

Ion Ratio Lower Upper

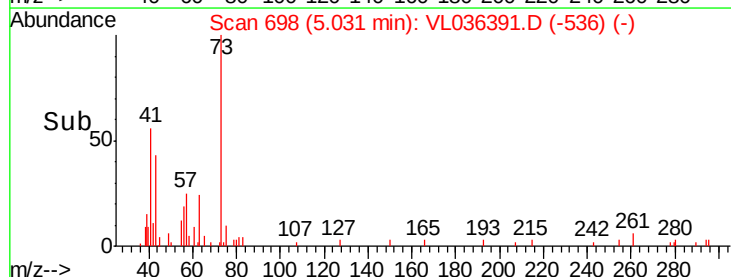
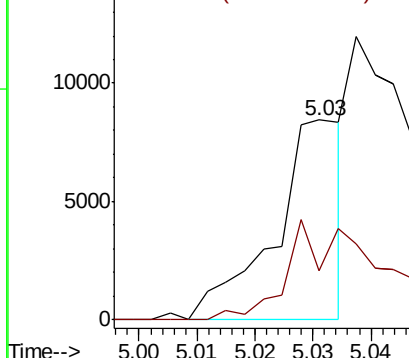
73 100

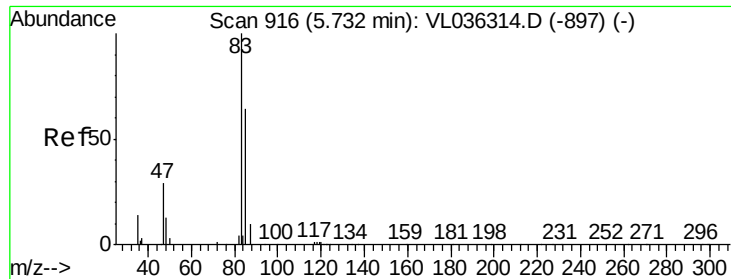
57 90.4 19.2 28.8#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

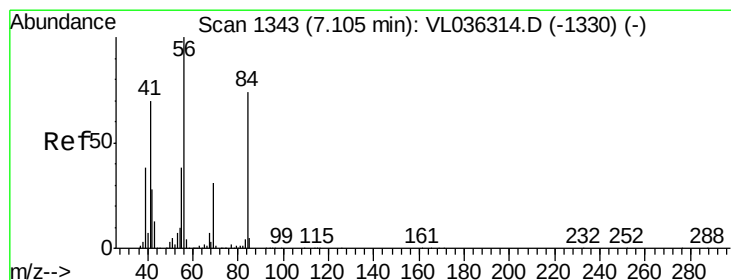
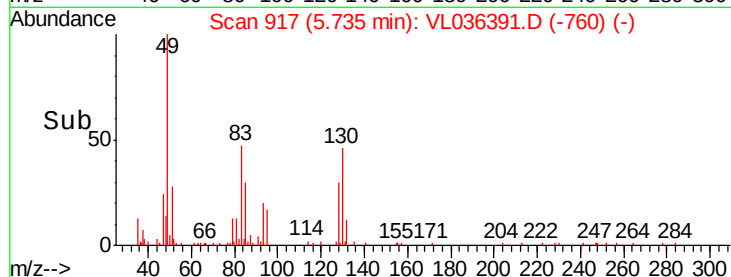
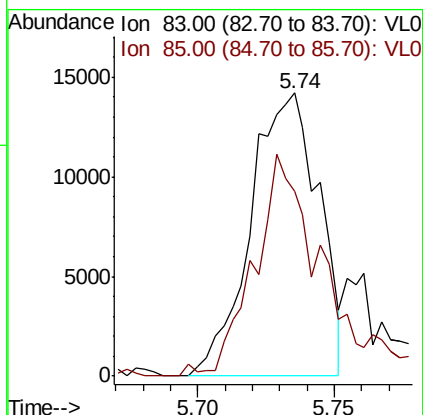
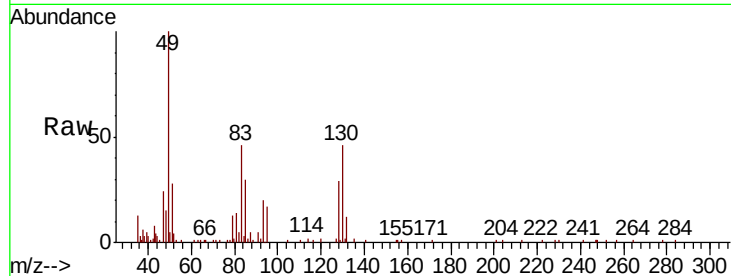




#29
Chloroform
Concen: 0.107 ppbv
RT: 5.74 min Scan# 917
Delta R.T. 0.00 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

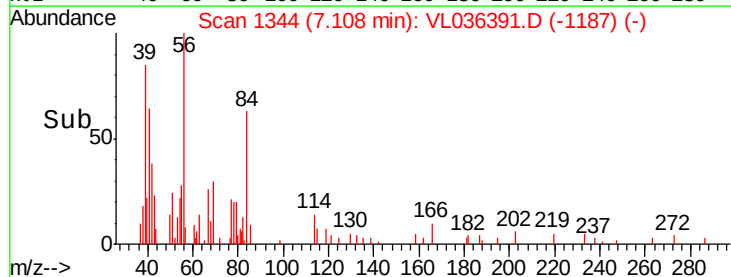
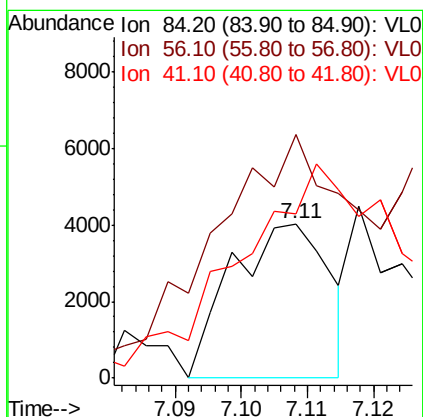
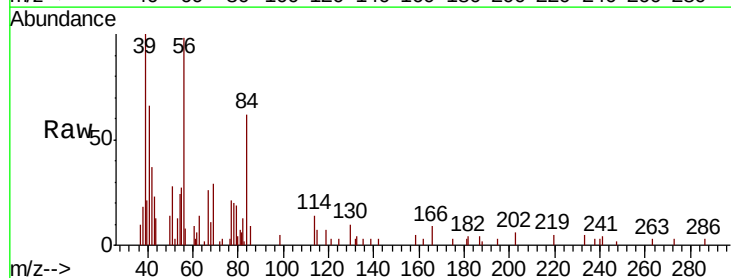
Instrument :
MSVOA_L
ClientSampleId :

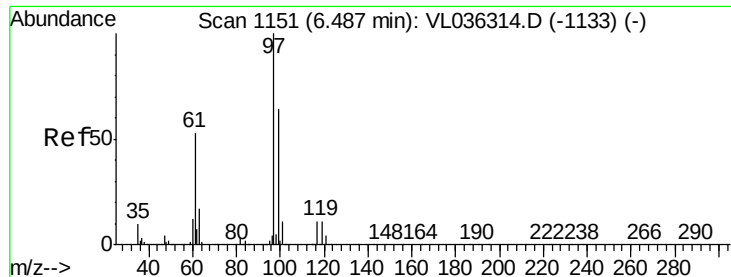
Tot Ion: 83 Resp: 24638
Ion Ratio Lower Upper
83 100
85 60.6 51.4 77.2



#30
Cyclohexane
Concen: 0.035 ppbv
RT: 7.11 min Scan# 1344
Delta R.T. 0.00 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tgt Ion: 84 Resp: 4123
Ion Ratio Lower Upper
84 100
56 0.0 120.2 180.4#
41 330.7 79.7 119.5#





#32

1,1,1-Trichloroethane

Concen: 0.103 ppbv

RT: 6.49 min Scan# 1151

Delta R.T. 0.00 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

ClientSampleId :

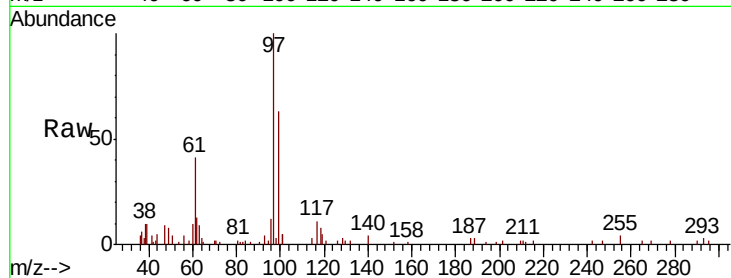
Tot Ion: 97 Resp: 22201

Ion Ratio Lower Upper

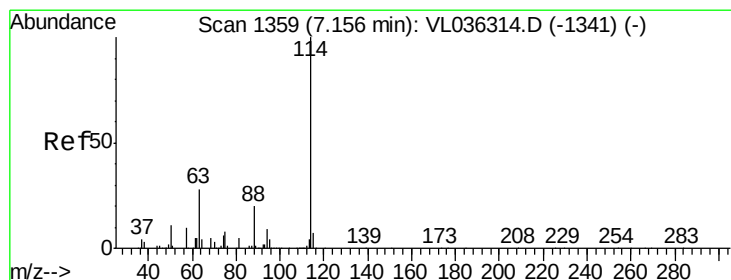
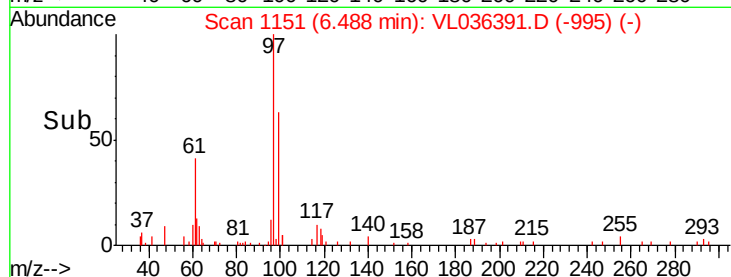
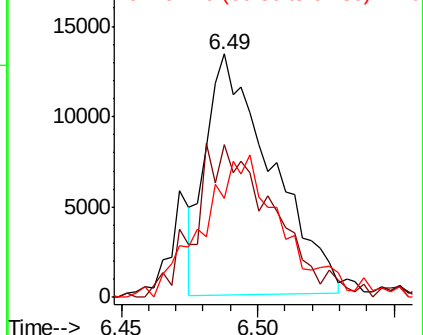
97 100

99 78.8 52.2 78.4#

61 74.8 43.3 64.9#



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: 7.15 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

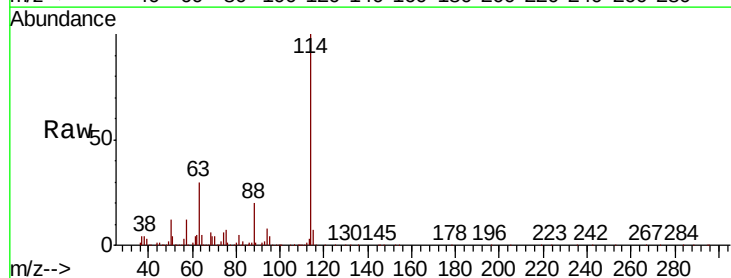
Tgt Ion: 114 Resp: 3234664

Ion Ratio Lower Upper

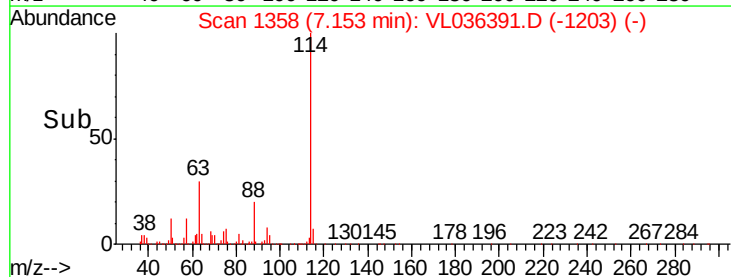
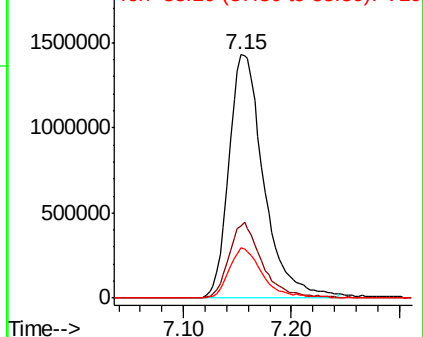
114 100

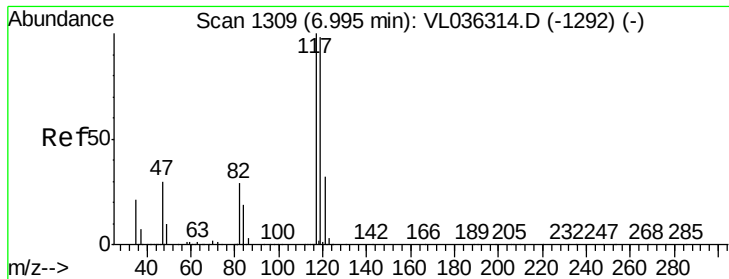
63 29.7 24.1 36.1

88 19.9 16.0 24.0



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





#35

Carbon Tetrachloride

Concen: 0.102 ppbv

RT: 7.00 min Scan# 1310

Delta R.T. 0.00 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

ClientSampleId :

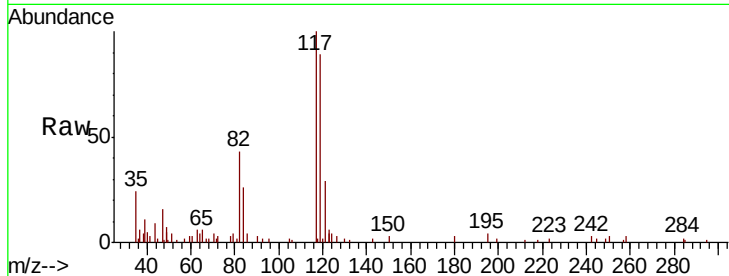
Tot Ion:117 Resp: 22111

Ion Ratio Lower Upper

117 100

119 90.1 78.1 117.1

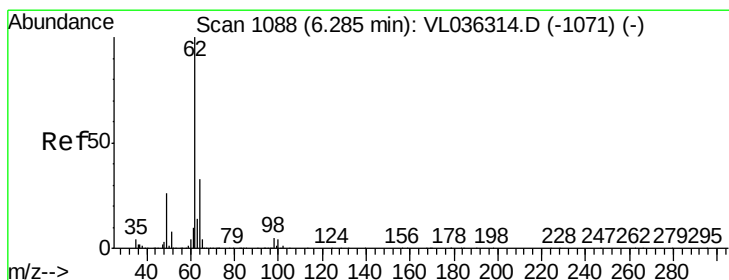
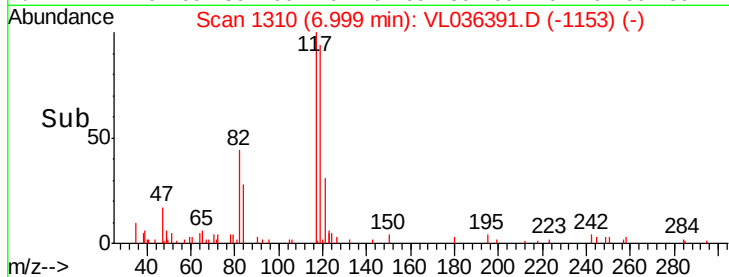
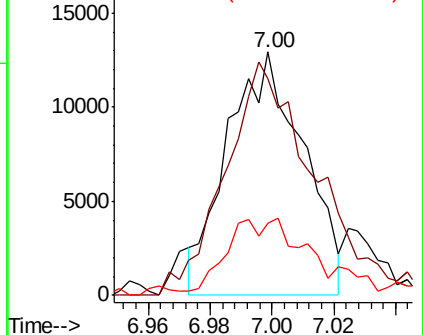
121 33.3 25.8 38.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#37

1,2-Dichloroethane

Concen: 0.064 ppbv

RT: 6.29 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VL036391.D

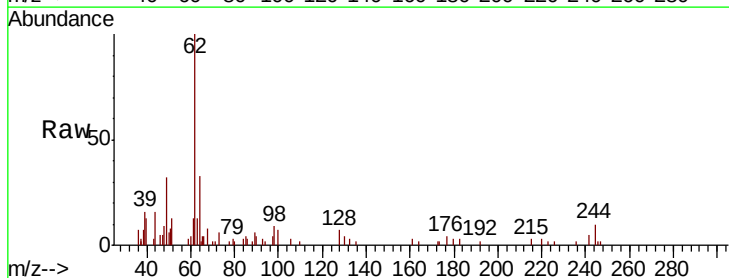
Acq: 25 Feb 2021 21:19

Tgt Ion: 62 Resp: 10897

Ion Ratio Lower Upper

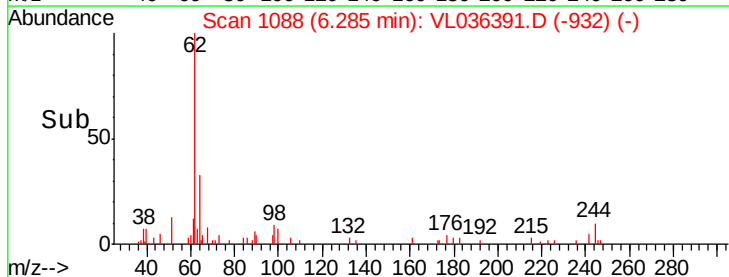
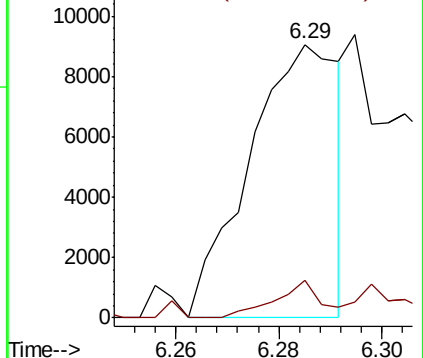
62 100

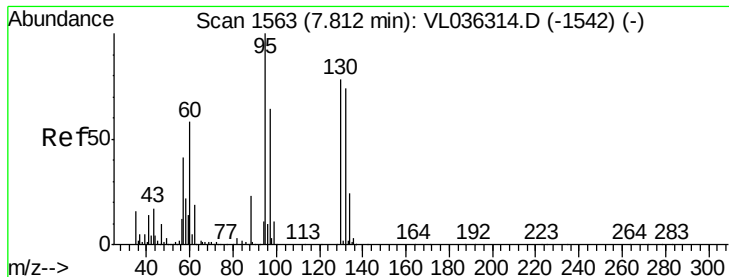
98 15.4 4.5 6.7#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.086 ppbv

RT: 7.82 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VL036391.D

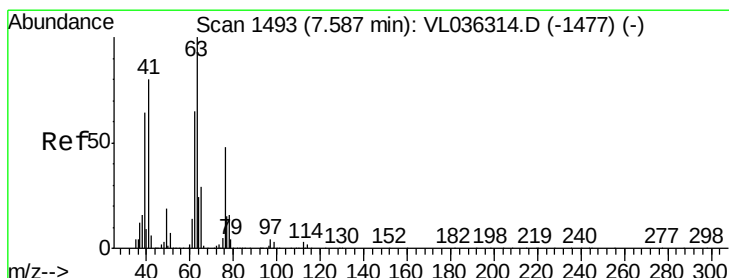
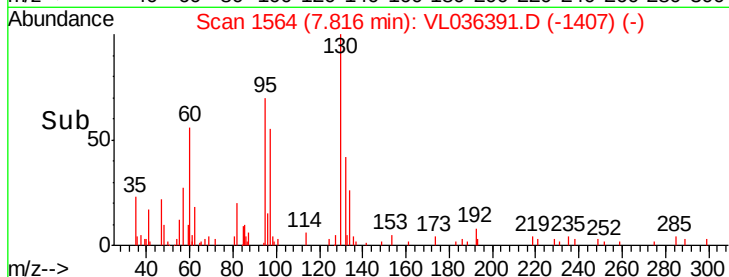
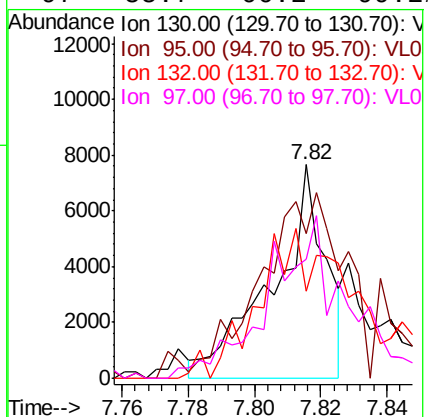
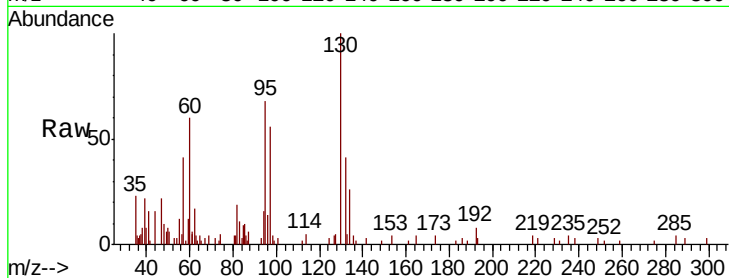
Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:	130	Resp:	8424
Ion	Ratio	Lower	Upper
130	100		
95	71.1	102.8	154.2#
132	42.2	75.7	113.5#
97	55.7	66.2	99.2#



#39

1,2-Dichloropropane

Concen: 8.392 ppbv

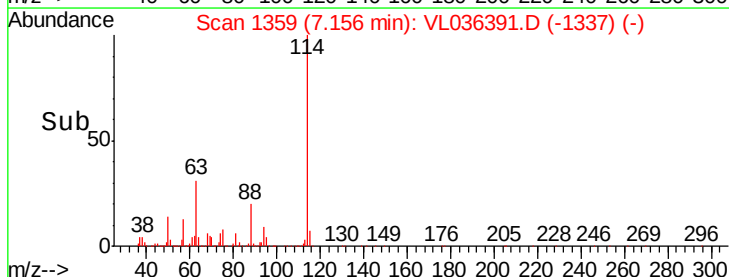
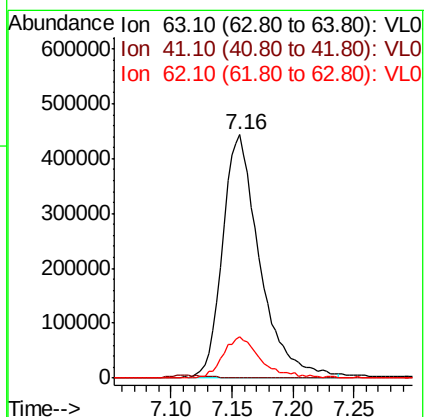
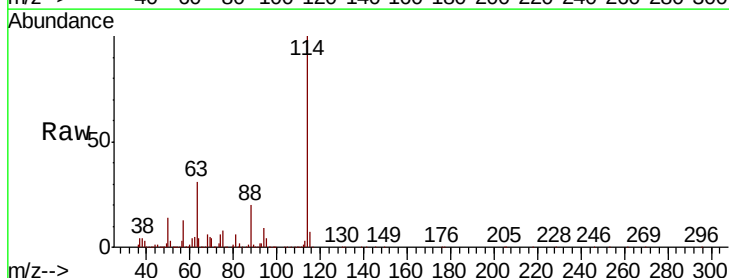
RT: 7.16 min Scan# 1359

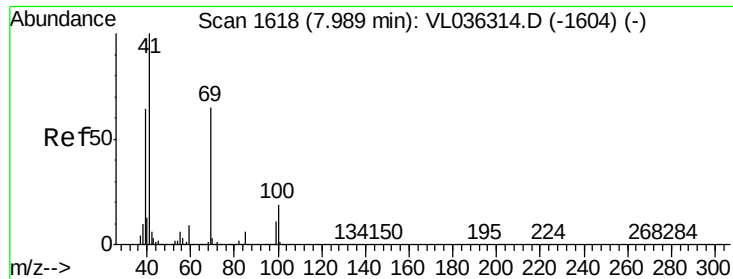
Delta R.T. -0.43 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Tgt Ion:	63	Resp:	936749
Ion	Ratio	Lower	Upper
63	100		
41	0.1	63.8	95.6#
62	17.0	52.3	78.5#

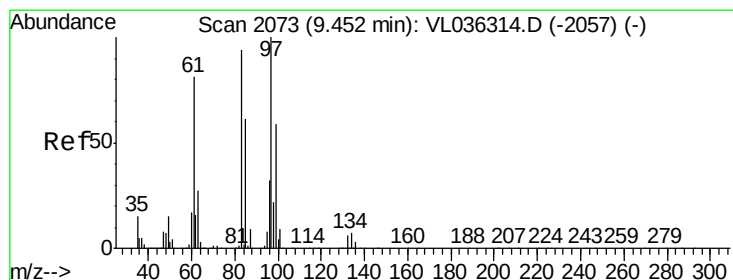
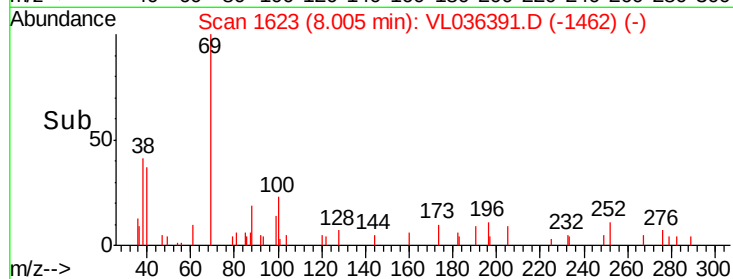
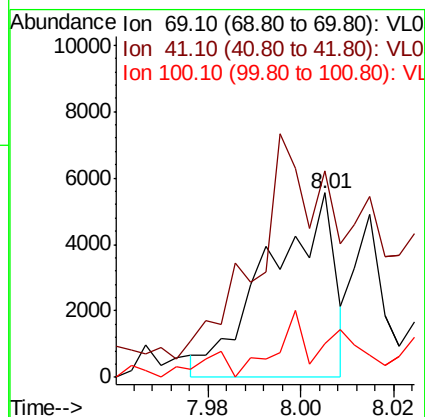
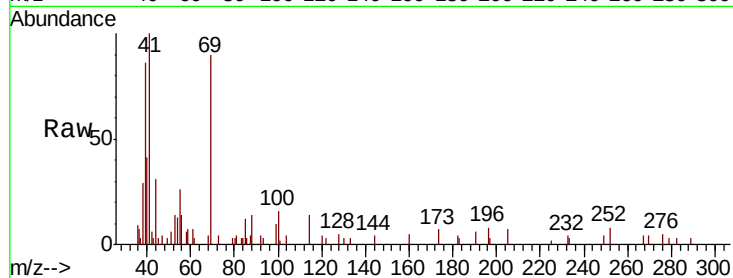




#43
Methyl Methacrylate
Concen: 0.047 ppbv
RT: 8.01 min Scan# 1623
Delta R.T. 0.02 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

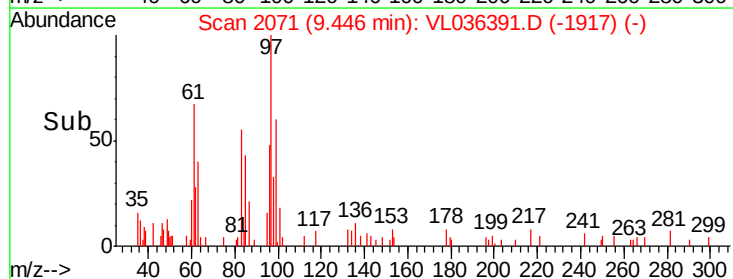
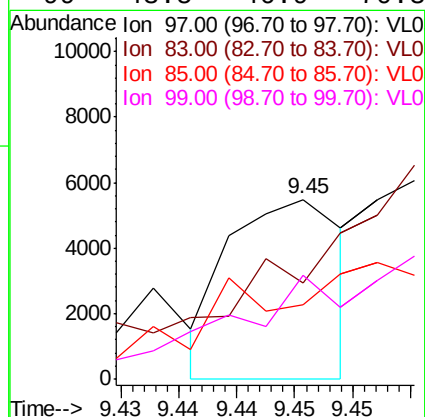
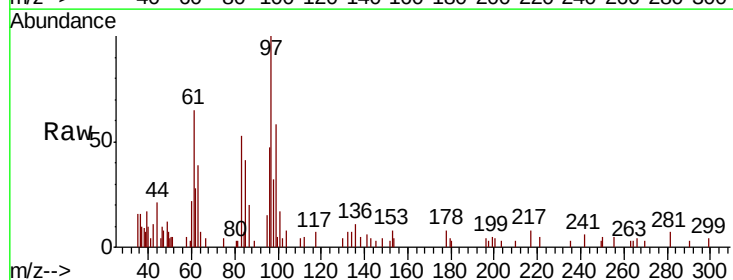
Instrument :
MSVOA_L
ClientSampled :

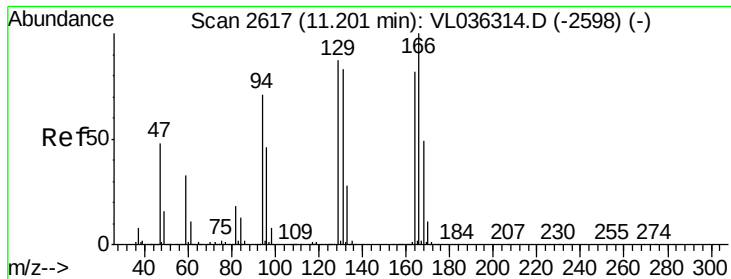
Tot Ion: 69 Resp: 5498
Ion Ratio Lower Upper
69 100
41 275.4 126.5 189.7#
100 55.5 23.1 34.7#



#47
1,1,2-Trichloroethane
Concen: 0.033 ppbv
RT: 9.45 min Scan# 2071
Delta R.T. -0.01 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tgt Ion: 97 Resp: 3759
Ion Ratio Lower Upper
97 100
83 26.4 75.4 113.0#
85 34.4 48.9 73.3#
99 43.5 46.9 70.3#





#52

Tetrachloroethene

Concen: 0.037 ppbv

RT: 11.20 min Scan# 2617

Delta R.T. 0.00 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 3737

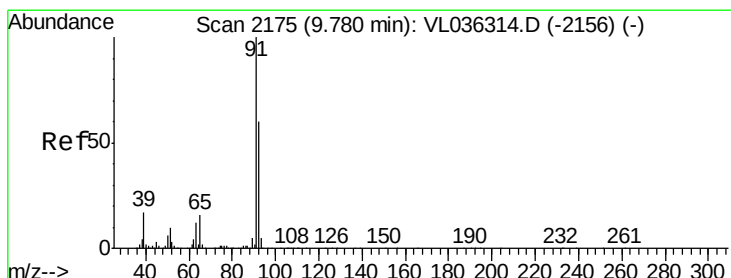
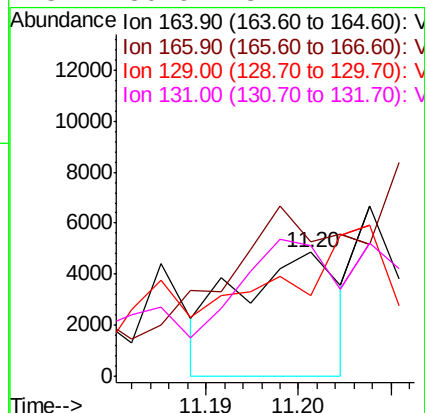
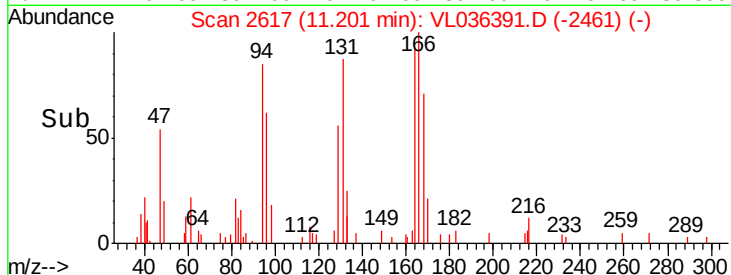
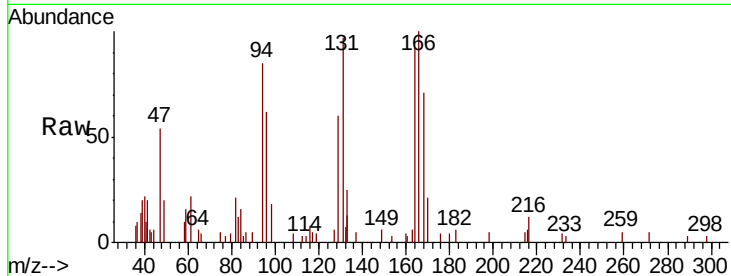
Ion Ratio Lower Upper

164 100

166 74.1 97.8 146.8#

129 33.3 84.9 127.3#

131 136.9 81.4 122.2#



#53

Toluene

Concen: 0.042 ppbv

RT: 9.78 min Scan# 2175

Delta R.T. 0.00 min

Lab File: VL036391.D

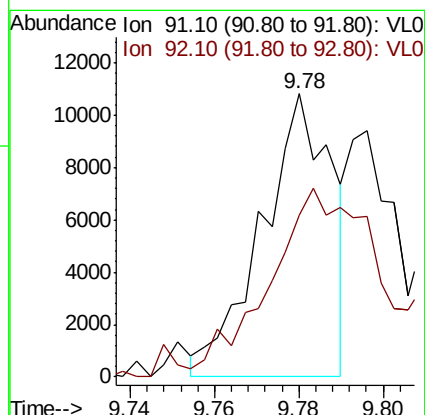
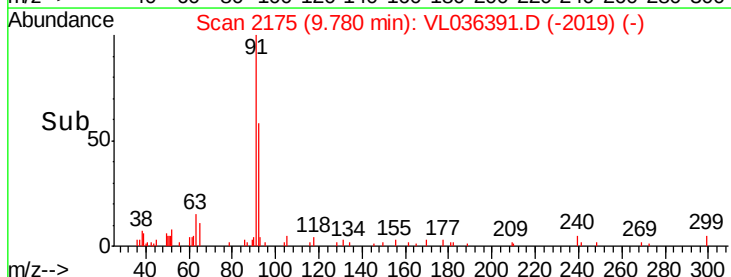
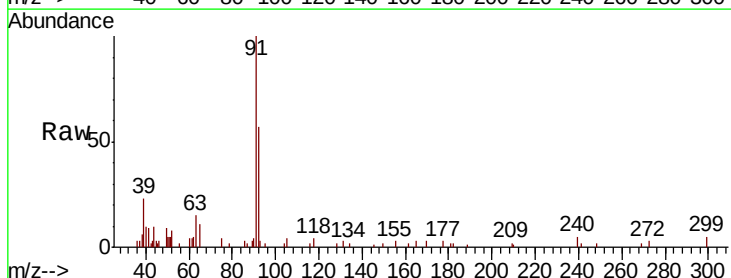
Acq: 25 Feb 2021 21:19

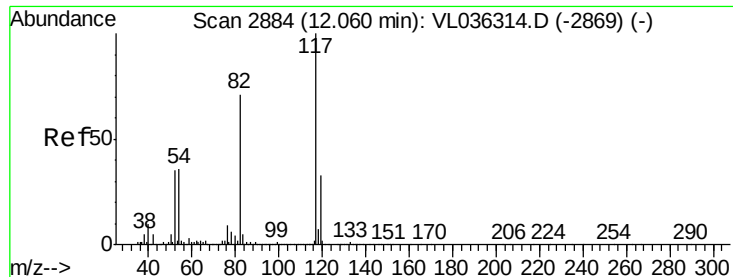
Tgt Ion: 91 Resp: 12432

Ion Ratio Lower Upper

91 100

92 119.5 48.6 72.8#

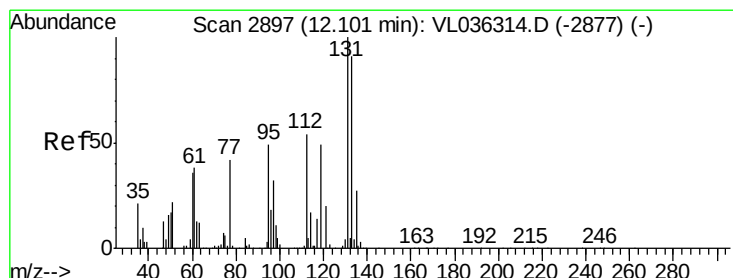
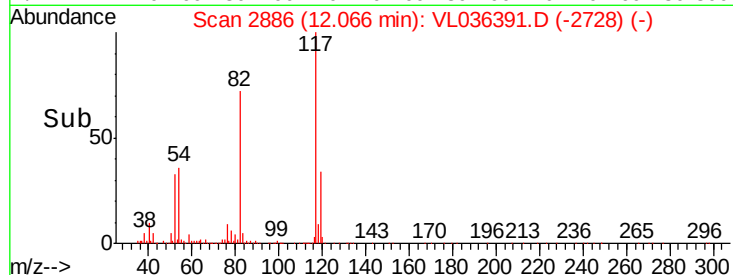
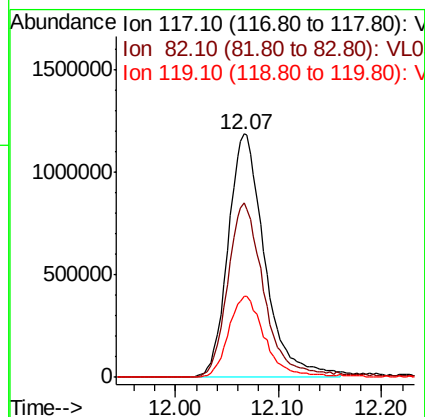
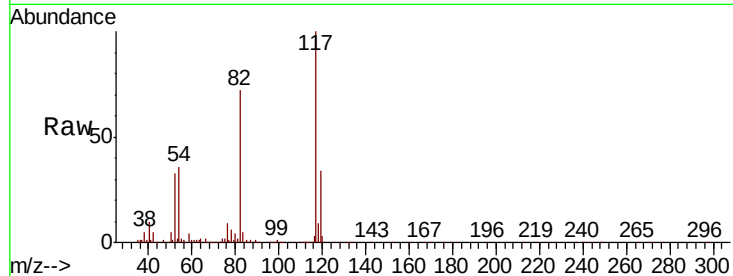




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. 0.01 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

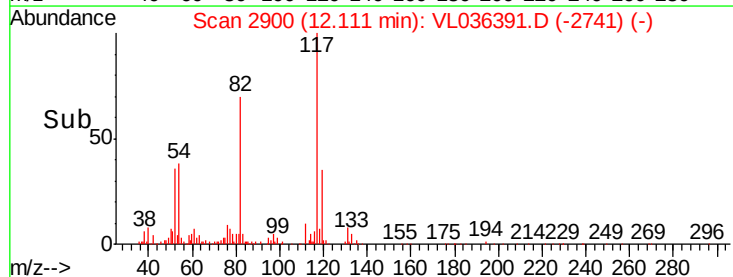
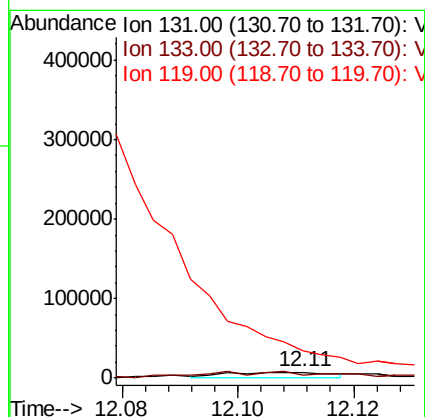
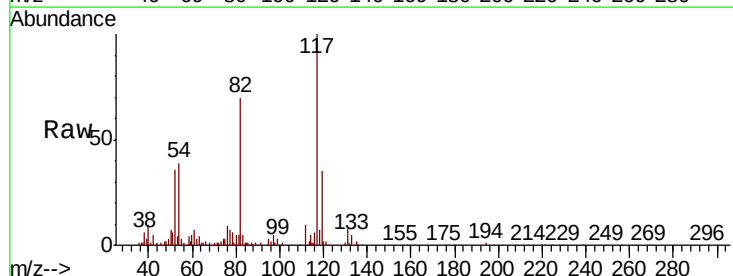
Instrument :
MSVOA_L
ClientSampleId :

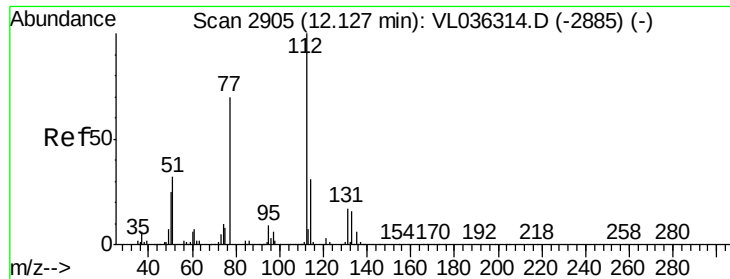
Tot Ion:117 Resp: 2929432
Ion Ratio Lower Upper
117 100
82 72.7 59.1 88.7
119 34.0 46.3 69.5#



#56
1,1,1,2-Tetrachloroethane
Concen: 0.069 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.01 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tgt Ion:131 Resp: 9268
Ion Ratio Lower Upper
131 100
133 0.0 76.0 114.0#
119 0.0 115.1 172.7#





#57

Chlorobenzene

Concen: 0.104 ppbv

RT: 12.13 min Scan# 2905

Delta R.T. 0.00 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

ClientSampled :

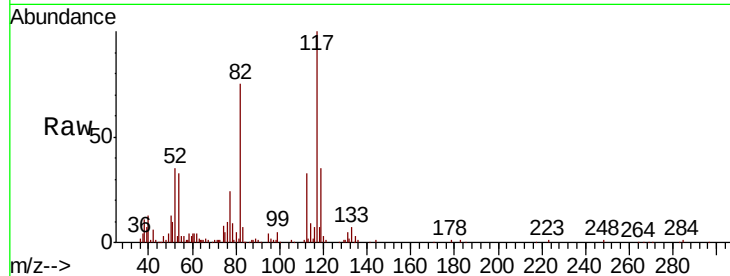
Tot Ion:112 Resp: 23610

Ion Ratio Lower Upper

112 100

77 45.0 56.1 84.1#

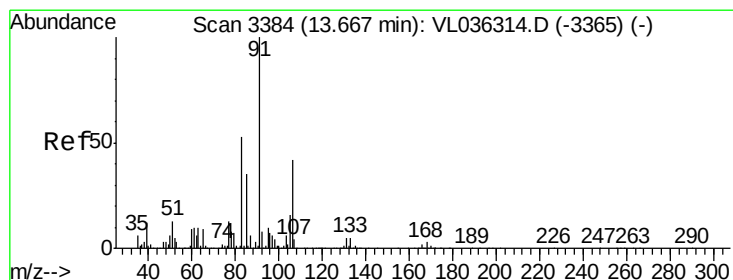
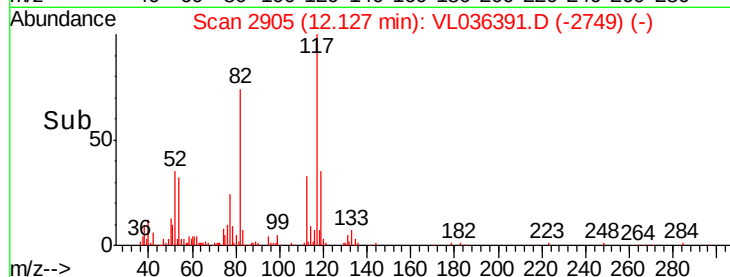
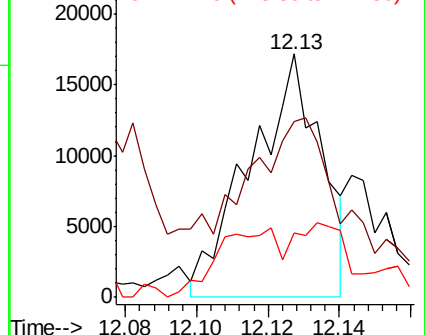
114 20.1 28.3 34.5#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#60

o-Xylene

Concen: 0.097 ppbv

RT: 13.67 min Scan# 3385

Delta R.T. 0.00 min

Lab File: VL036391.D

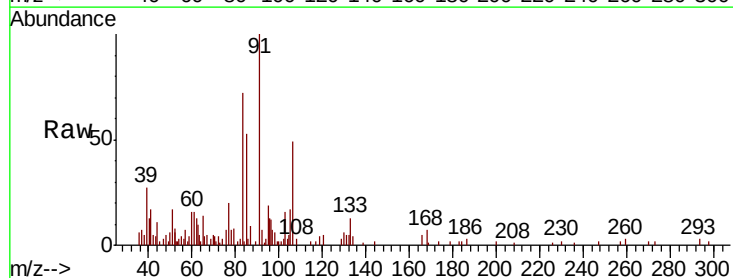
Acq: 25 Feb 2021 21:19

Tgt Ion: 91 Resp: 32762

Ion Ratio Lower Upper

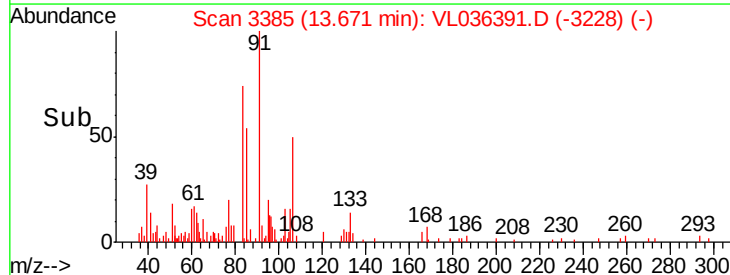
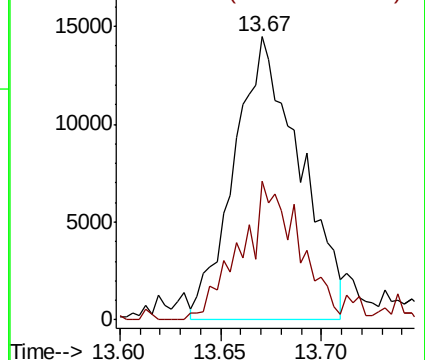
91 100

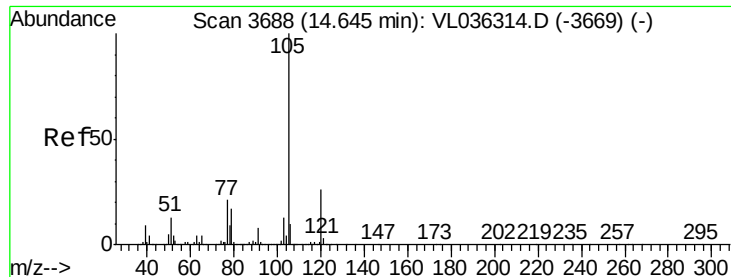
106 48.2 22.0 66.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#62

Isopropylbenzene

Concen: 0.095 ppbv

RT: 14.65 min Scan# 3690

Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

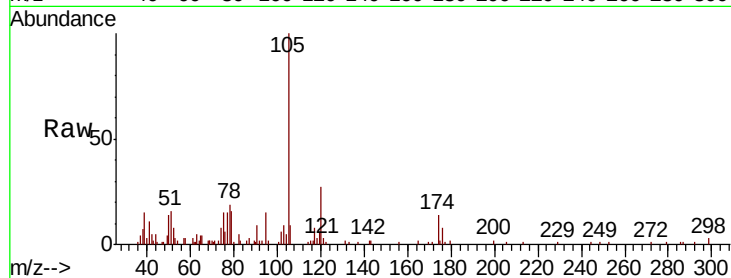
ClientSampled :

Tot Ion:105 Resp: 47892

Ion Ratio Lower Upper

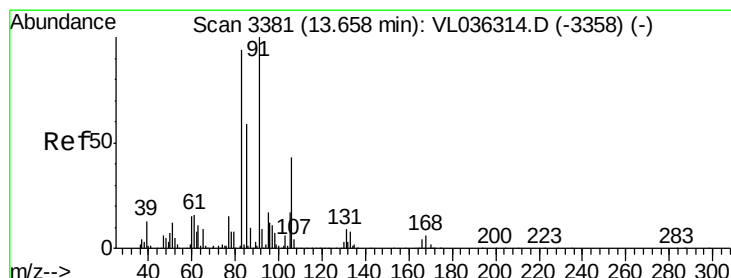
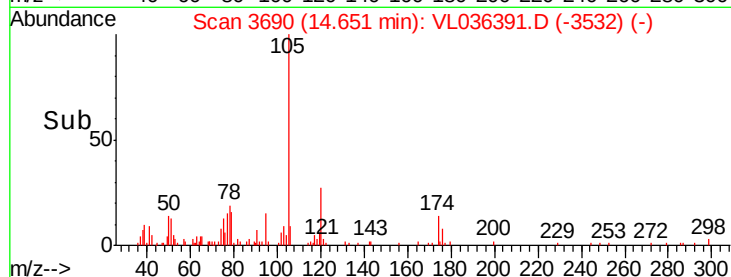
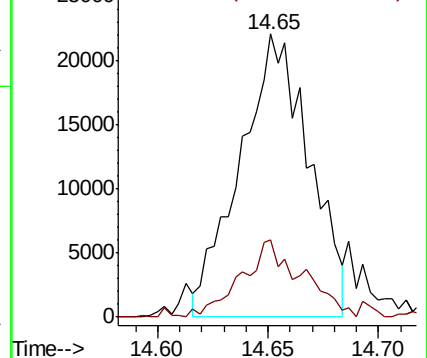
105 100

120 26.0 20.6 30.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.076 ppbv

RT: 13.66 min Scan# 3382

Delta R.T. 0.00 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

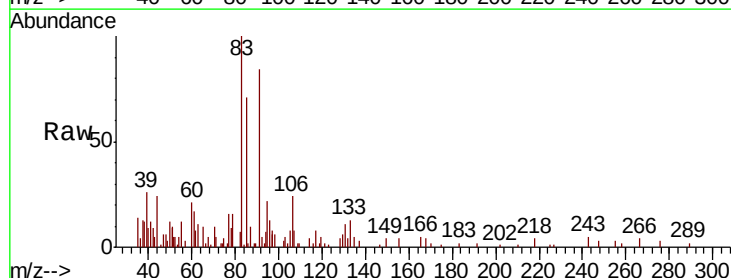
Tgt Ion: 83 Resp: 20267

Ion Ratio Lower Upper

83 100

131 0.0 4.7 14.0#

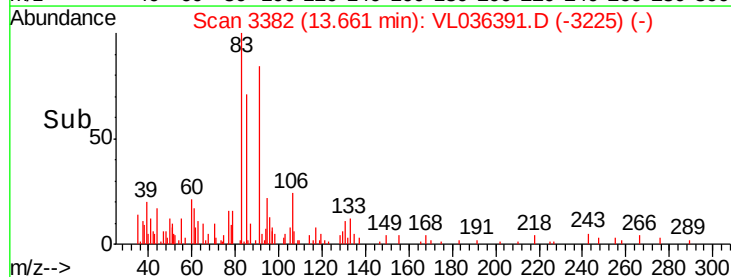
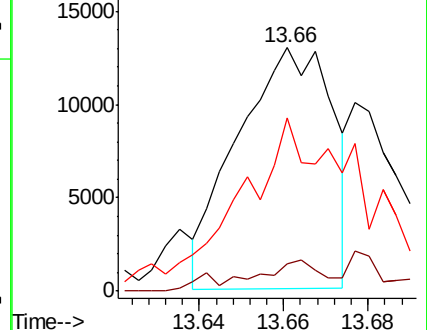
85 118.7 33.0 98.9#

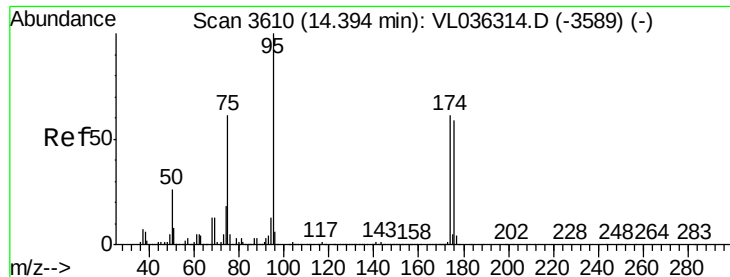


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0

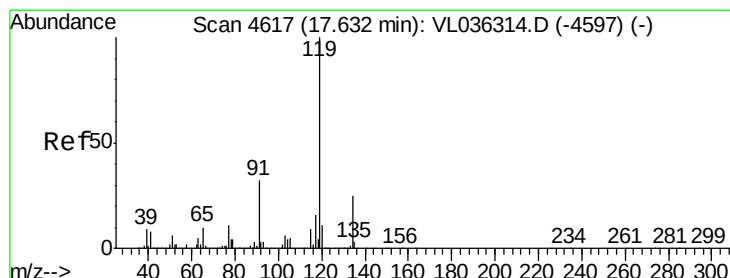
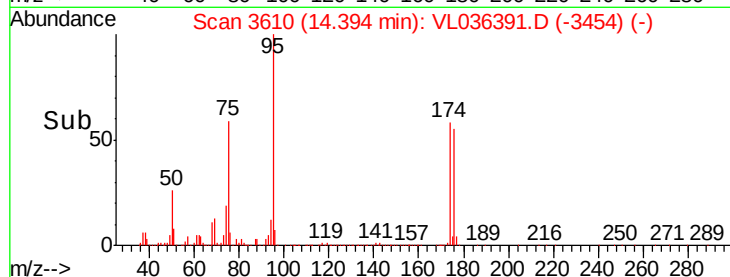
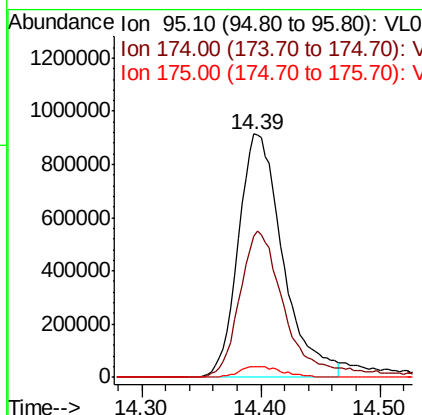
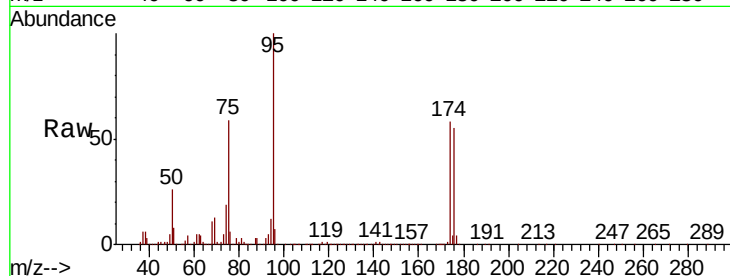




#68
1-Bromo-4-Fluorobenzene
Concen: 9.828 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. 0.00 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

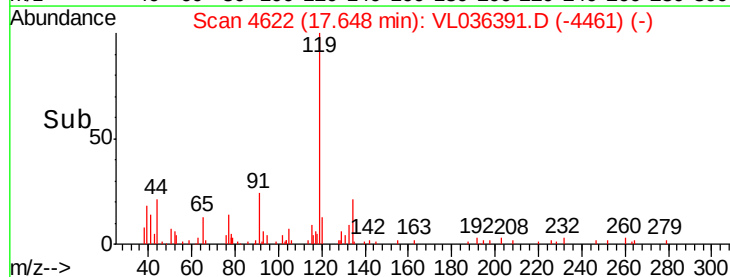
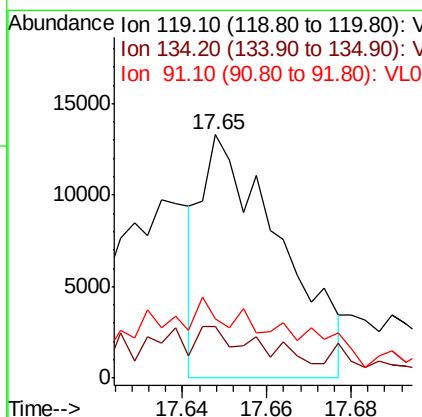
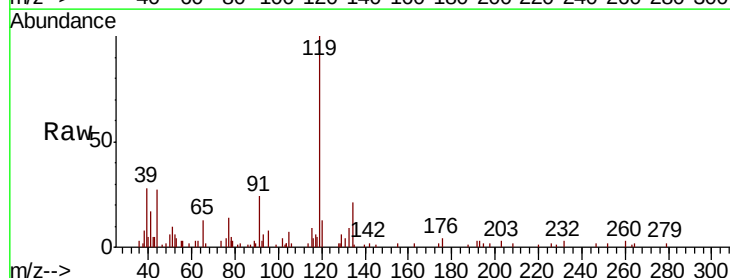
Instrument :
MSVOA_L
ClientSampled :

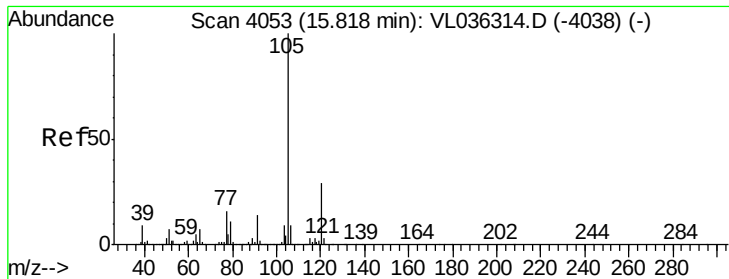
Tot Ion: 95 Resp: 2368875
Ion Ratio Lower Upper
95 100
174 64.0 49.8 74.6
175 4.9 3.7 5.5



#69
p-Isopropyltoluene
Concen: 0.036 ppbv
RT: 17.65 min Scan# 4622
Delta R.T. 0.02 min
Lab File: VL036391.D
Acq: 25 Feb 2021 21:19

Tgt Ion: 119 Resp: 17139
Ion Ratio Lower Upper
119 100
134 46.9 20.1 30.1#
91 83.0 25.8 38.6#





#72

4-Ethyltoluene

Concen: 0.032 ppbv

RT: 15.83 min Scan# 4056

Delta R.T. 0.01 min

Lab File: VL036391.D

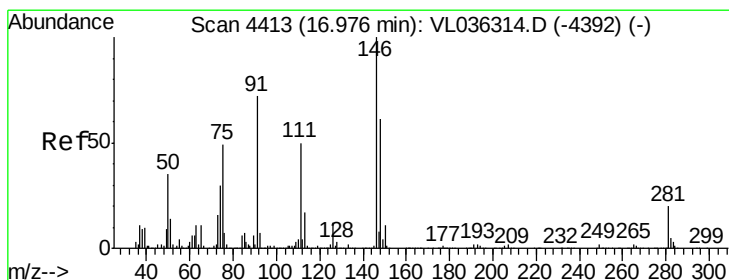
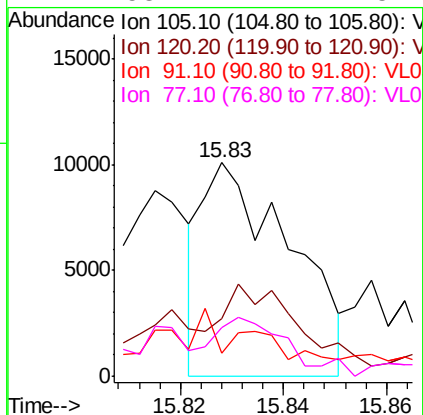
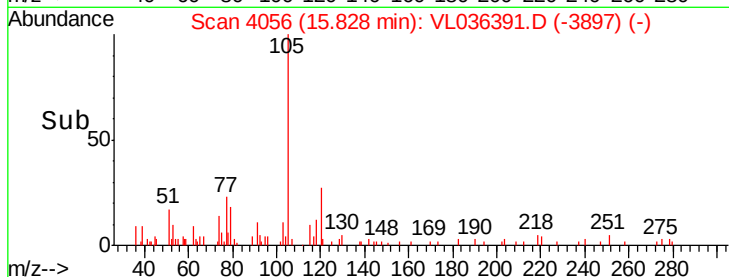
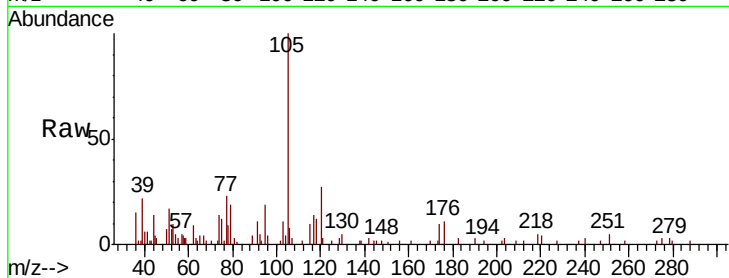
Acq: 25 Feb 2021 21:19

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:	105	Resp:	11957
Ion	Ratio	Lower	Upper
105	100		
120	79.2	23.2	34.8#
91	49.4	11.0	16.4#
77	53.4	12.2	18.4#



#75

1,3-Dichlorobenzene

Concen: 0.033 ppbv

RT: 16.99 min Scan# 4417

Delta R.T. 0.01 min

Lab File: VL036391.D

Acq: 25 Feb 2021 21:19

Tgt Ion:	146	Resp:	6648
Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.9	74.6#
148	0.0	31.9	95.9#

