

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036214.D
 Acq On : 13 Jan 2021 5:07
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Quant Time: Jan 13 05:50:00 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jan 13 05:46:16 2021
 QLast Update : Wed Jan 13 05:46:16 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1677726	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3555532	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3201996	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2662084	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	28559	0.145 ppbv	89
3) Chlorodifluoromethane	2.99	51	25498	0.133 ppbv	95
4) Chloromethane	3.13	50	5249	0.056 ppbv #	82
5) Vinyl Chloride	3.26	62	8455	0.081 ppbv	94
6) Bromomethane	3.47	94	2236	0.042 ppbv	96
7) Chloroethane	3.56	64	2226	0.063 ppbv #	59
8) Dichlorotetrafluoroethane	3.18	85	21817	0.102 ppbv	95
10) Heptane	8.11	43	12923	0.053 ppbv #	12
11) Trichlorofluoromethane	3.94	101	25568	0.113 ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.48	101	7595	0.050 ppbv #	15
16) 1,3-Butadiene	3.33	39	7484	0.075 ppbv #	10
20) Methylene Chloride	4.34	84	11280	0.142 ppbv	96
21) Allyl Chloride	4.41	41	6066	0.047 ppbv #	1
22) trans-1,2-Dichloroethene	4.88	96	4765	0.071 ppbv #	67
23) Vinyl Acetate	5.08	43	12533	0.047 ppbv #	67
25) Ethyl Acetate	5.68	43	23153	0.058 ppbv #	73
26) Hexane	5.68	57	21855	0.122 ppbv	90
27) Carbon Disulfide	4.55	76	8017	0.047 ppbv #	55
28) Methyl tert-Butyl Ether	5.05	73	11917	0.048 ppbv #	50
29) Chloroform	5.75	83	11114	0.047 ppbv	98
30) Cyclohexane	7.13	84	4906	0.037 ppbv #	1
31) cis-1,2-Dichloroethene	5.55	61	8673	0.053 ppbv #	84
37) 1,2-Dichloroethane	6.30	62	12739	0.072 ppbv #	84
38) Trichloroethene	7.83	130	5628	0.050 ppbv #	25
39) 1,2-Dichloropropane	7.21	63	15822	0.132 ppbv #	16
42) Bromodichloromethane	7.79	83	14529	0.062 ppbv #	38
43) Methyl Methacrylate	8.02	69	10064	0.077 ppbv #	64
44) 2,2,4-Trimethylpentane	7.87	57	22310	0.041 ppbv #	1
49) Bromoform	13.03	173	6400	0.047 ppbv #	35
53) Toluene	9.80	91	15166	0.045 ppbv #	20
54) 1,2-Dibromoethane	10.62	107	7620	0.044 ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.12	131	4266	0.032 ppbv #	1
57) Chlorobenzene	12.15	112	16443	0.073 ppbv #	70
60) o-Xylene	13.68	91	14299	0.041 ppbv #	32
61) Styrene	13.52	104	13722	0.060 ppbv #	40
63) 1,1,2,2-Tetrachloroethane	13.68	83	20156	0.085 ppbv #	54
64) n-propylbenzene	15.55	120	6832	0.054 ppbv #	1
65) tert-Butylbenzene	16.74	119	13120	0.031 ppbv #	1
67) sec-Butylbenzene	17.29	105	39884	0.066 ppbv #	60
69) p-Isopropyltoluene	17.65	119	29784	0.062 ppbv #	41
70) n-Butylbenzene	18.55	91	17236	0.036 ppbv #	33

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jan 13 05:46:16 2021
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 Response via : Initial Calibration

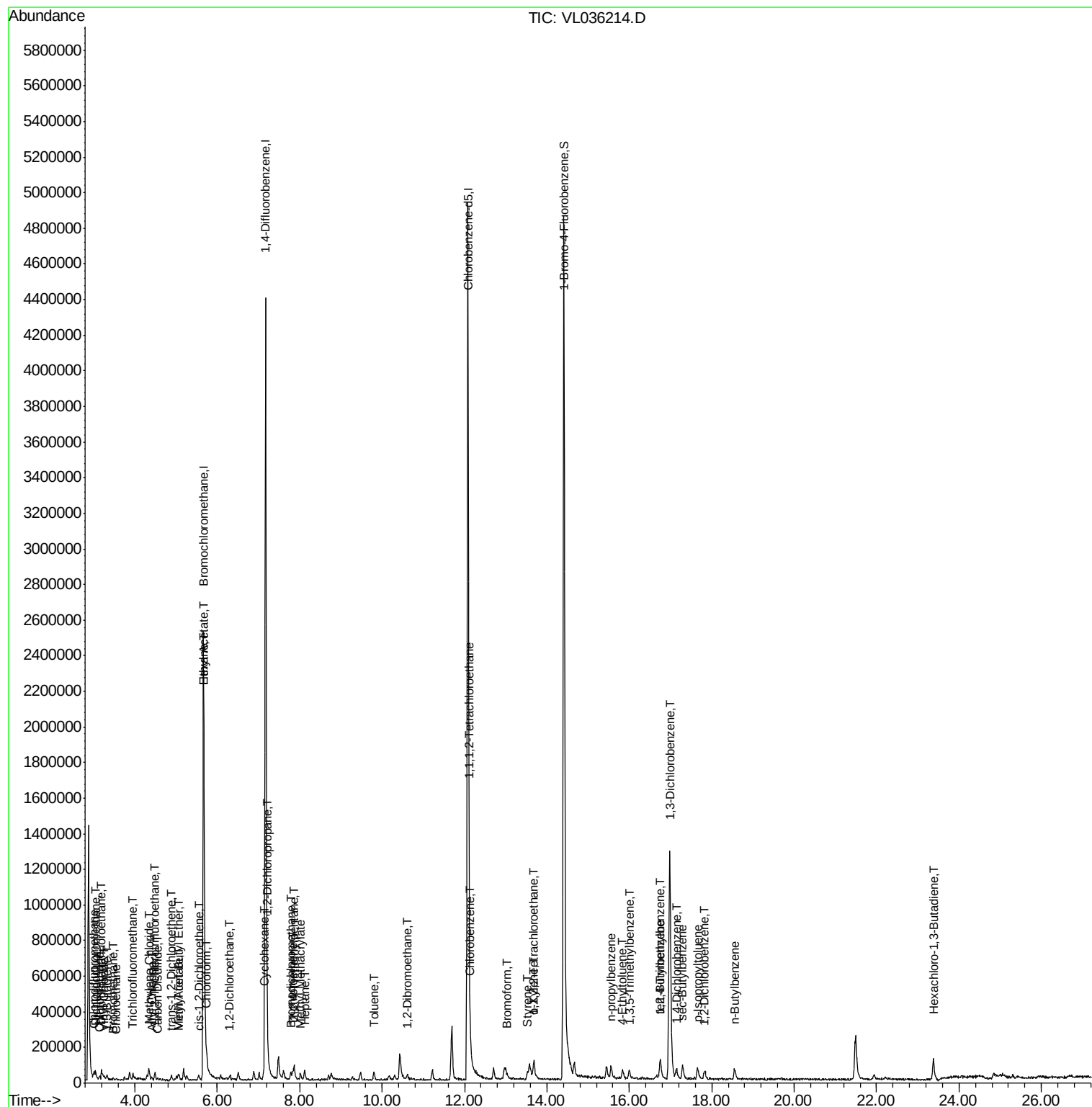
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	15.83	105	19593	0.051	ppbv #	59
73) 1,3,5-Trimethylbenzene	16.00	105	15925	0.043	ppbv #	32
74) 1,2,4-Trimethylbenzene	16.76	105	25629	0.069	ppbv #	81
75) 1,3-Dichlorobenzene	17.00	146	6787	0.036	ppbv #	22
76) 1,4-Dichlorobenzene	17.14	146	6291	0.033	ppbv #	1
77) 1,2-Dichlorobenzene	17.82	146	12005	0.067	ppbv #	10
78) Hexachloro-1,3-Butadiene	23.38	225	14658	0.103	ppbv #	11

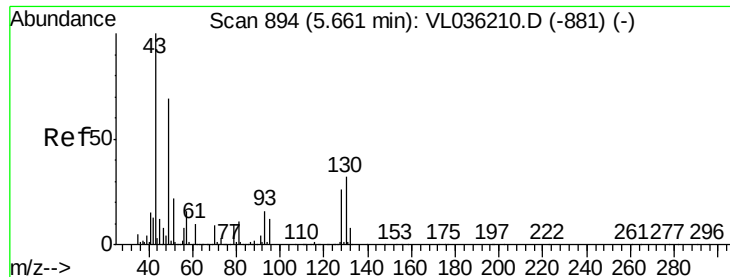
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Instrument :

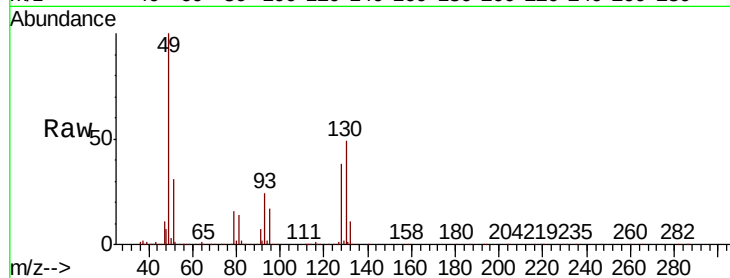
MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1677726

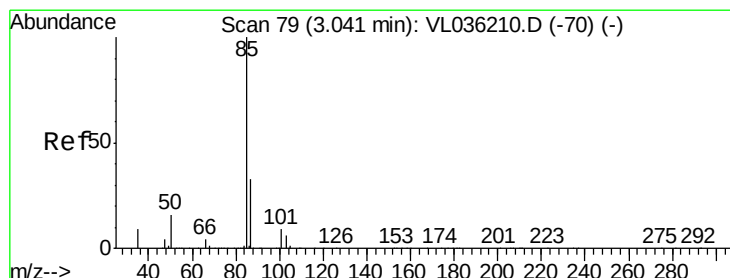
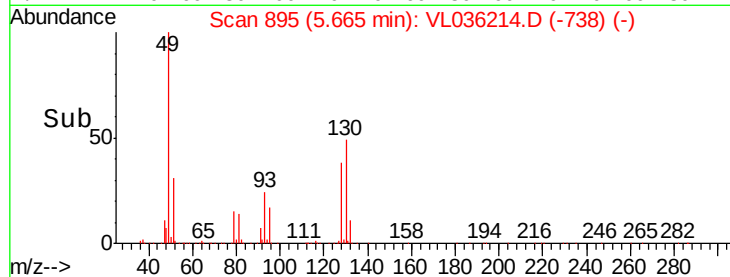
Ion	Ratio	Lower	Upper
49	100		
128	38.8	20.1	60.2
130	50.2	25.3	75.9



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: 0.145 ppbv

RT: 3.04 min Scan# 80

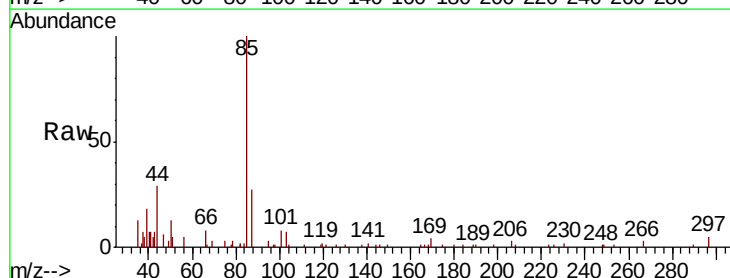
Delta R.T. 0.00 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

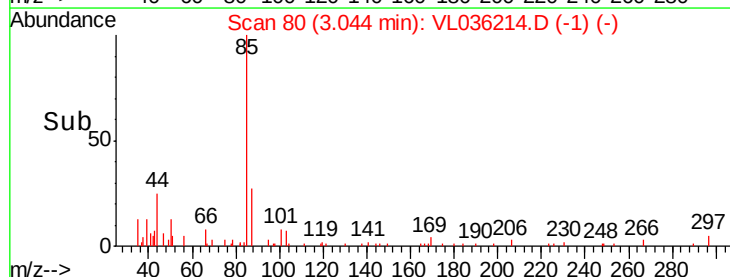
Tgt Ion: 85 Resp: 28559

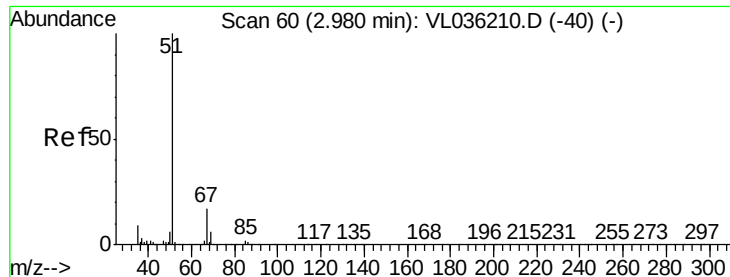
Ion	Ratio	Lower	Upper
85	100		
87	26.7	26.4	39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.133 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.01 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Instrument :

MSVOA_L

ClientSampleId :

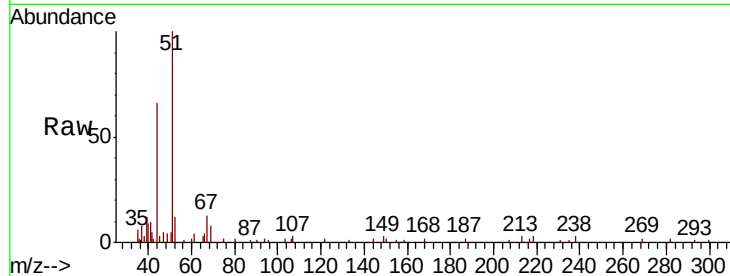
VSTDIC0.1

Tot Ion: 51 Resp: 25498

Ion Ratio Lower Upper

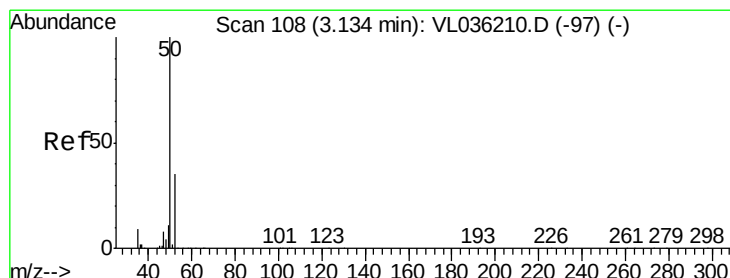
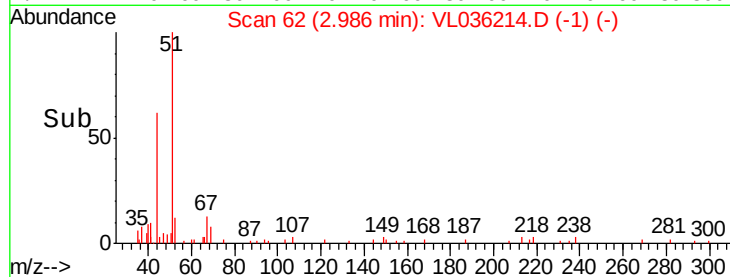
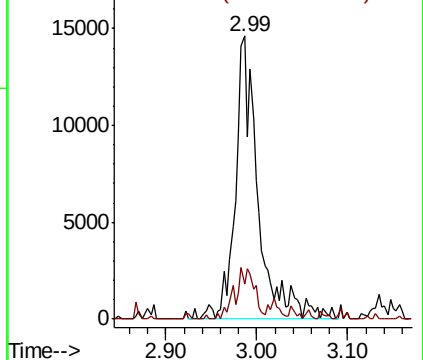
51 100

67 19.6 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.056 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.00 min

Lab File: VL036214.D

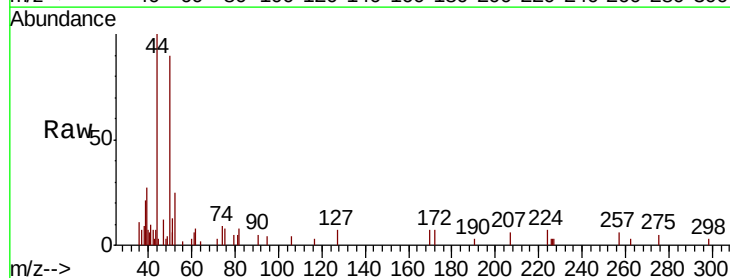
Acq: 13 Jan 2021 5:07

Tgt Ion: 50 Resp: 5249

Ion Ratio Lower Upper

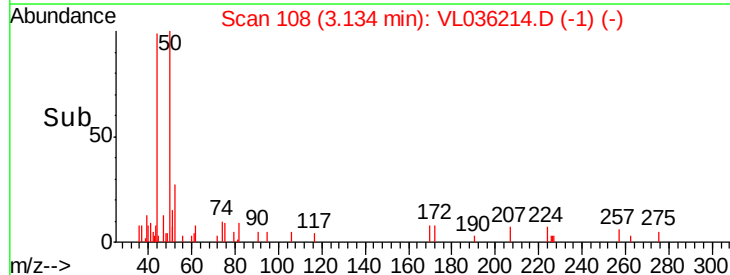
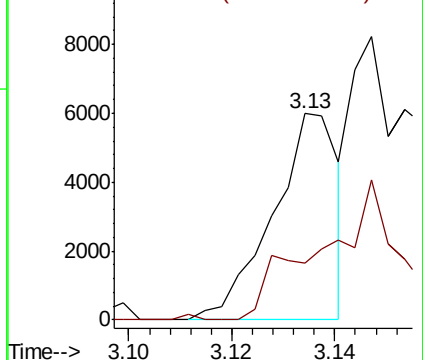
50 100

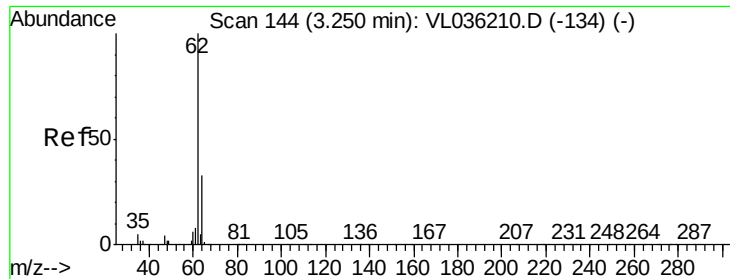
52 24.3 27.8 41.8#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.081 ppbv

RT: 3.26 min Scan# 146

Delta R.T. 0.01 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Instrument :

MSVOA_L

ClientSampleId :

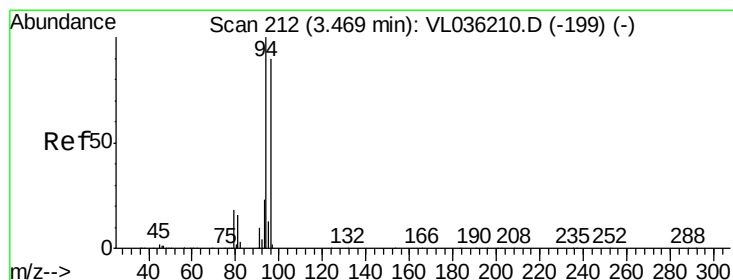
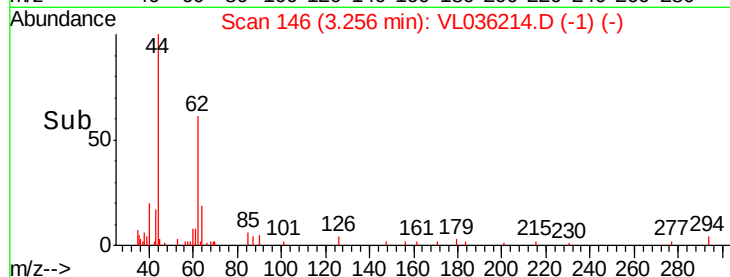
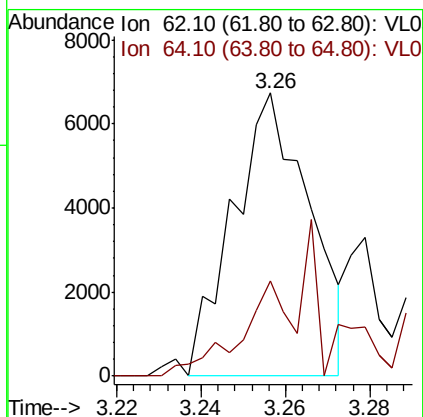
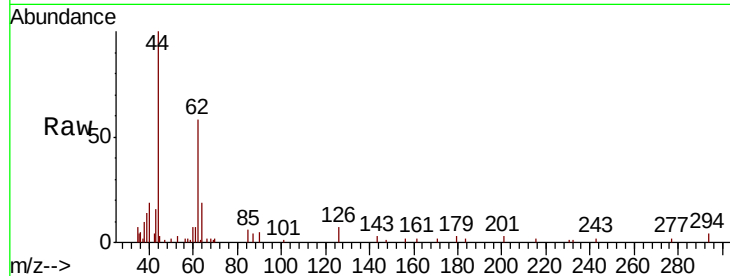
VSTDIC0.1

Tot Ion: 62 Resp: 8455

Ion Ratio Lower Upper

62 100

64 29.2 26.2 39.2



#6

Bromomethane

Concen: 0.042 ppbv

RT: 3.47 min Scan# 213

Delta R.T. 0.00 min

Lab File: VL036214.D

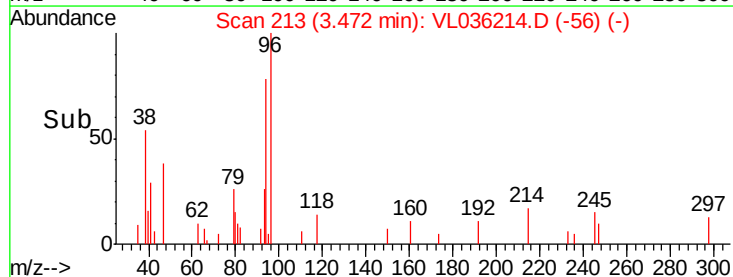
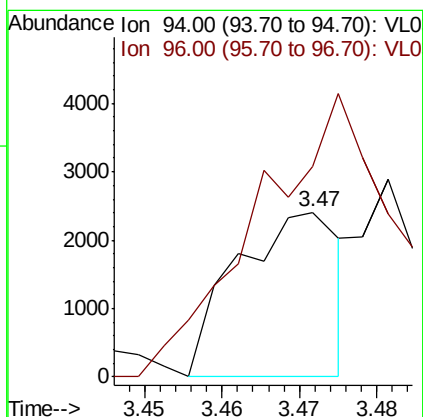
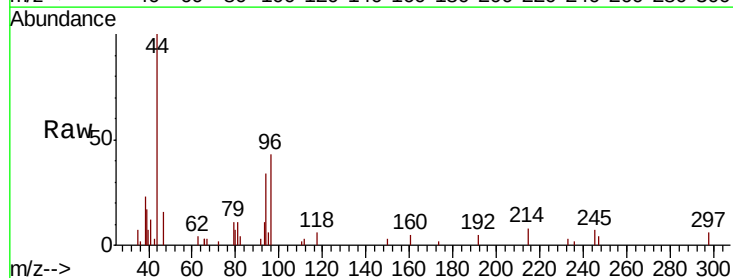
Acq: 13 Jan 2021 5:07

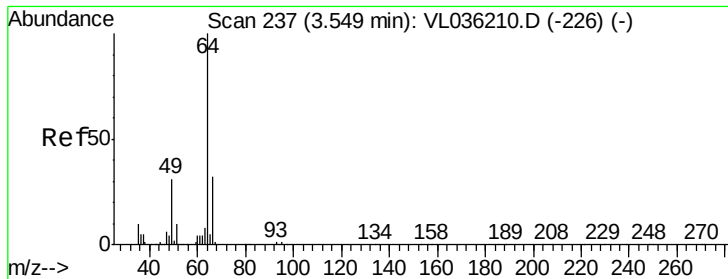
Tgt Ion: 94 Resp: 2236

Ion Ratio Lower Upper

94 100

96 93.6 71.9 107.9





#7

Chloroethane

Concen: 0.063 ppbv

RT: 3.56 min Scan# 239

Delta R.T. 0.01 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Instrument :

MSVOA_L

ClientSampleId :

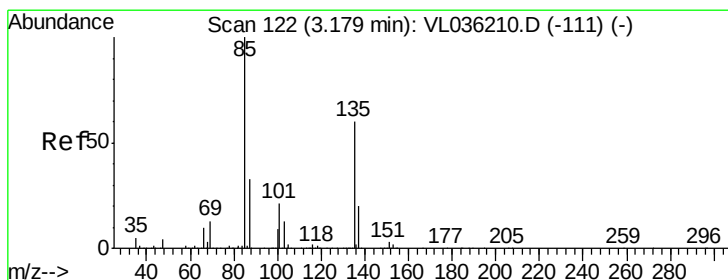
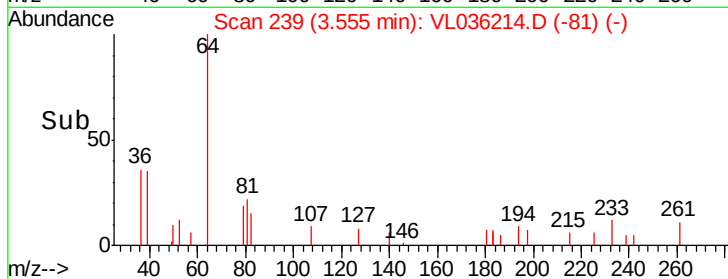
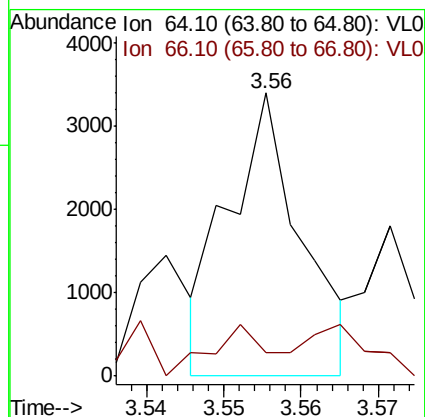
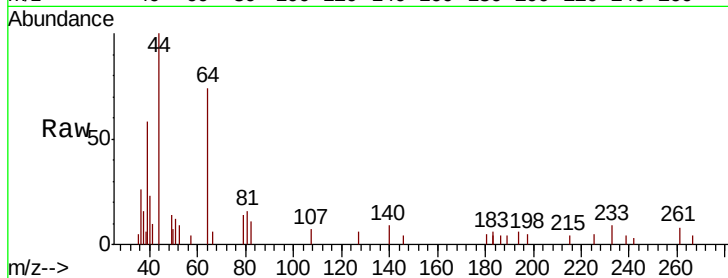
VSTDIC0.1

Tot Ion: 64 Resp: 2226

Ion Ratio Lower Upper

64 100

66 8.5 25.2 37.8#



#8

Dichlorotetrafluoroethane

Concen: 0.102 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.00 min

Lab File: VL036214.D

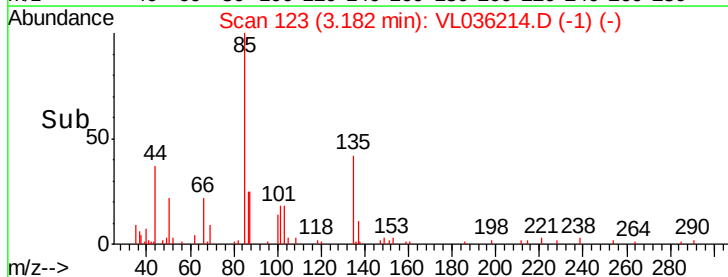
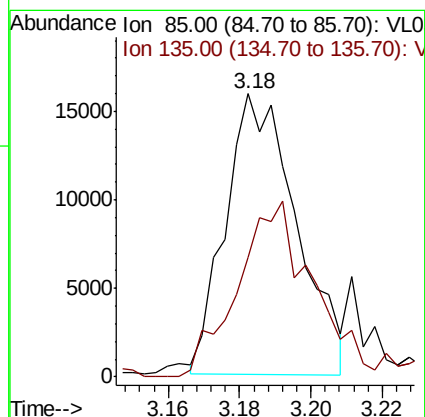
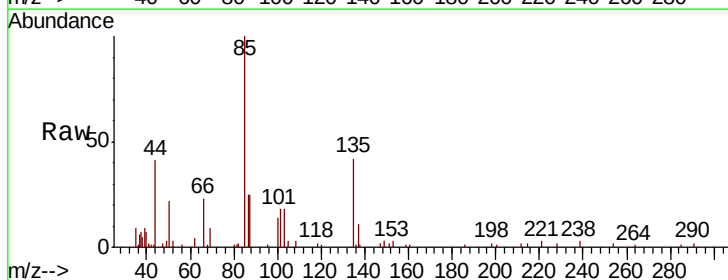
Acq: 13 Jan 2021 5:07

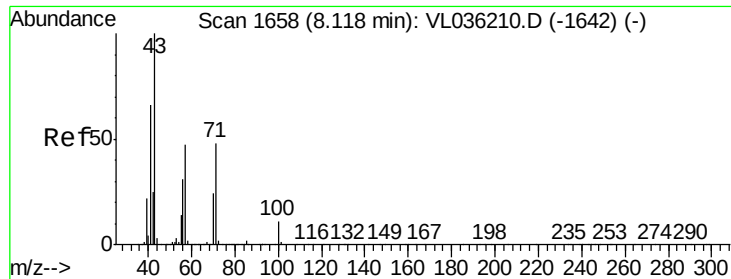
Tgt Ion: 85 Resp: 21817

Ion Ratio Lower Upper

85 100

135 68.1 51.5 77.3





#10

Heptane

Concen: 0.053 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Instrument :

MSVOA_L

ClientSampleId :

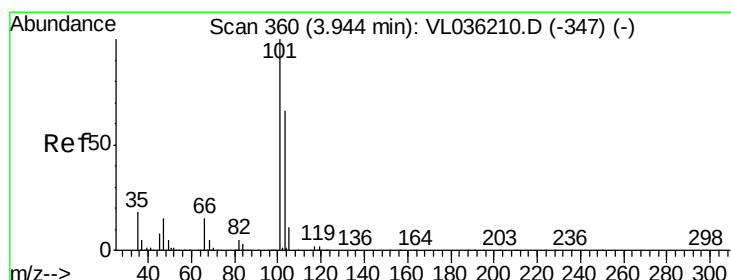
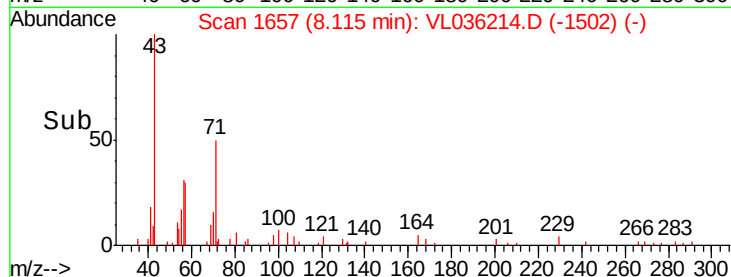
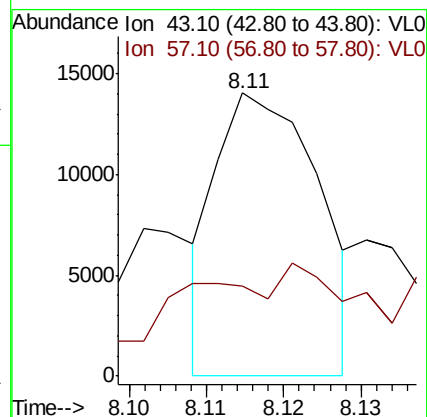
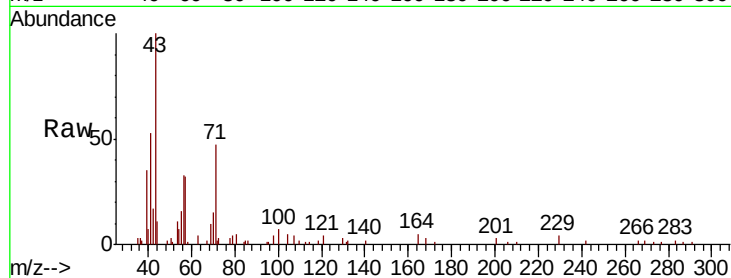
VSTDIC0.1

Tot Ion: 43 Resp: 12923

Ion Ratio Lower Upper

43 100

57 106.8 38.1 57.1#



#11

Trichlorofluoromethane

Concen: 0.113 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.00 min

Lab File: VL036214.D

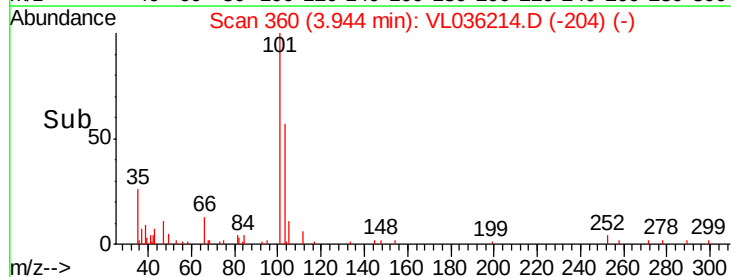
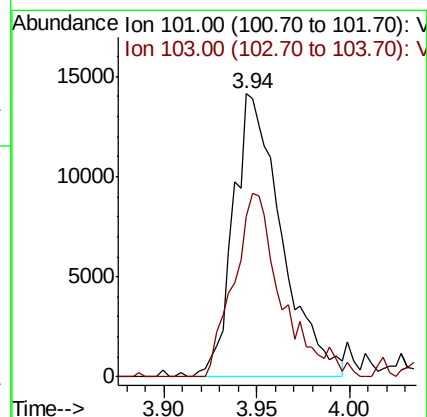
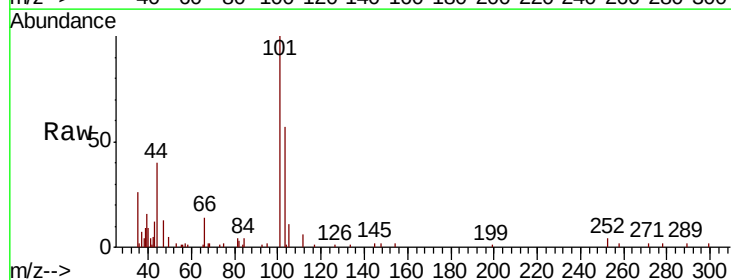
Acq: 13 Jan 2021 5:07

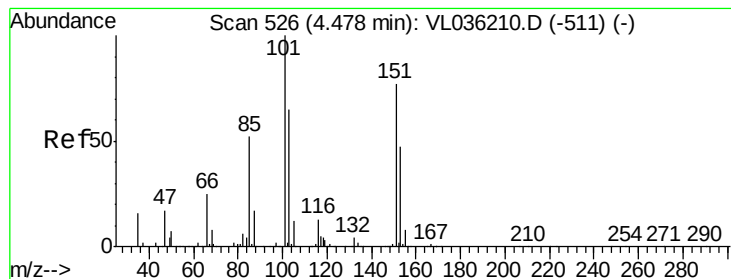
Tgt Ion: 101 Resp: 25568

Ion Ratio Lower Upper

101 100

103 56.7 52.6 78.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.050 ppbv

RT: 4.48 min Scan# 526

Delta R.T. 0.00 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Instrument :

MSVOA_L

ClientSampleId :

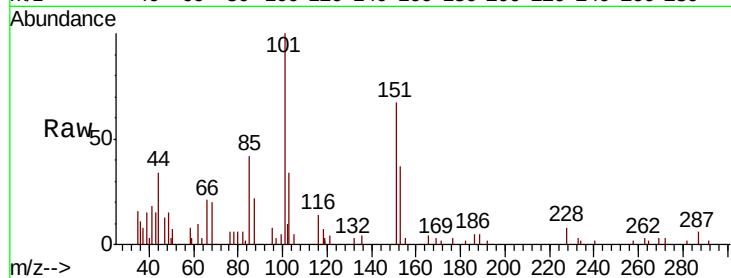
VSTDIC0.1

Tot Ion:101 Resp: 7595

Ion Ratio Lower Upper

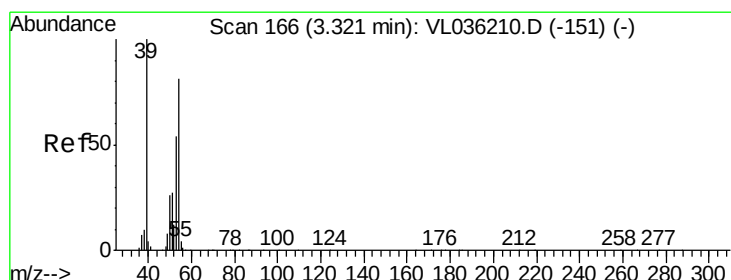
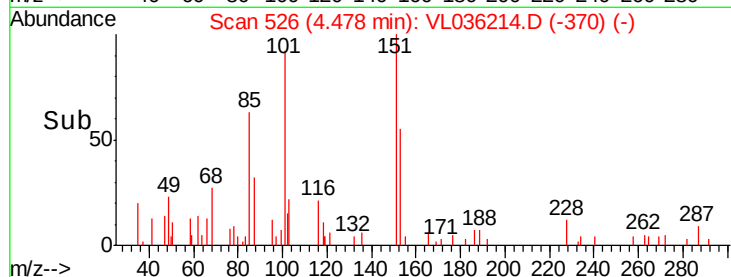
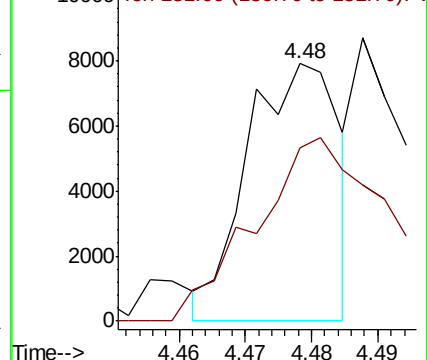
101 100

151 147.3 59.8 89.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#16

1,3-Butadiene

Concen: 0.075 ppbv

RT: 3.33 min Scan# 169

Delta R.T. 0.01 min

Lab File: VL036214.D

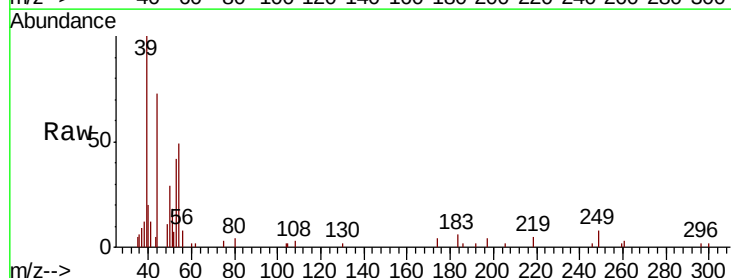
Acq: 13 Jan 2021 5:07

Tgt Ion: 39 Resp: 7484

Ion Ratio Lower Upper

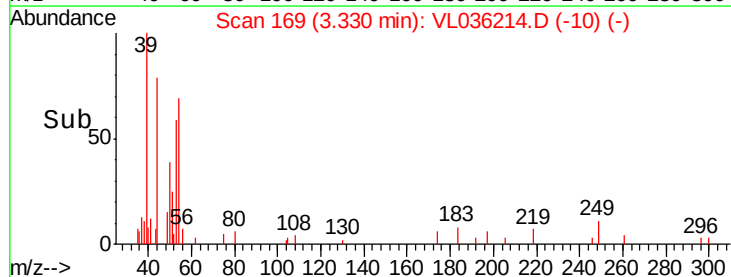
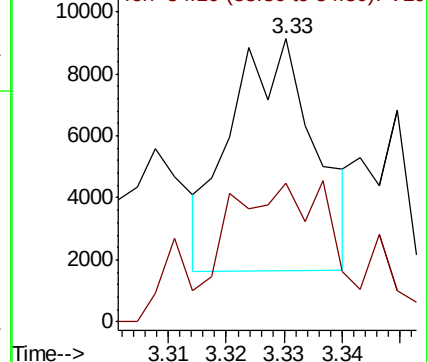
39 100

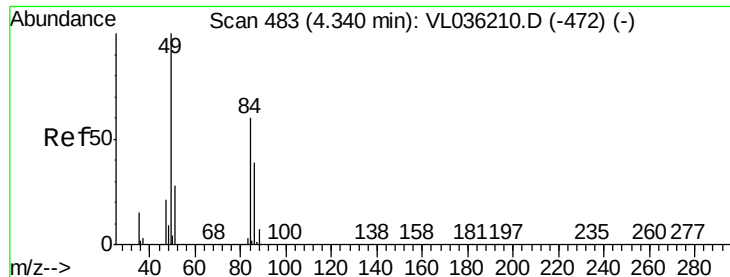
54 0.0 62.5 93.7#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

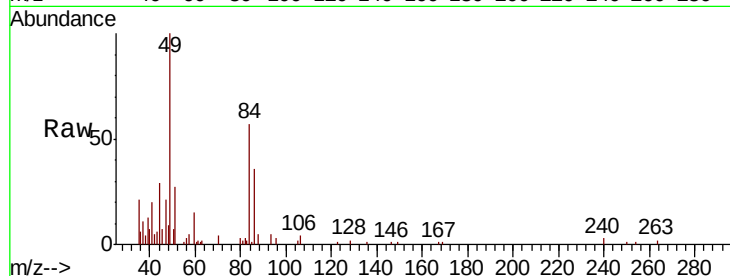




#20
Methylene Chloride
Concen: 0.142 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.00 min
Lab File: VL036214.D
Acq: 13 Jan 2021 5:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tot Ion:	84	Resp:	11280
Ion	Ratio	Lower	Upper
84	100		
49	174.3	134.1	201.1
51	46.4	37.4	56.0
86	63.8	52.6	78.8



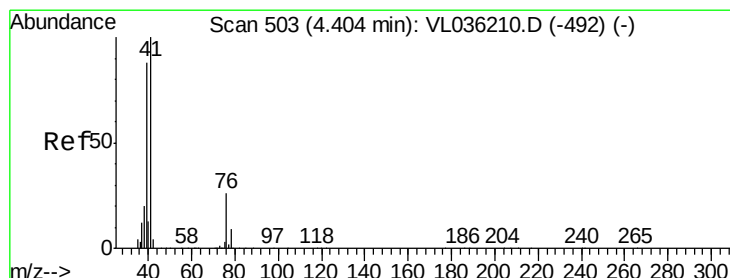
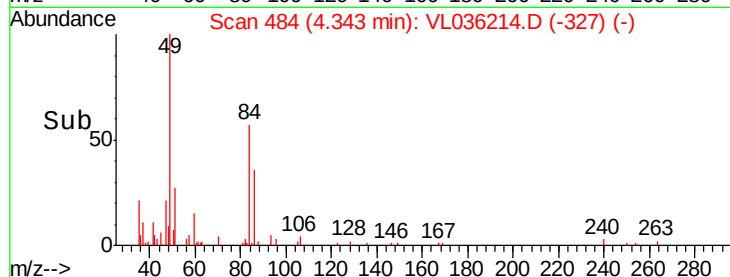
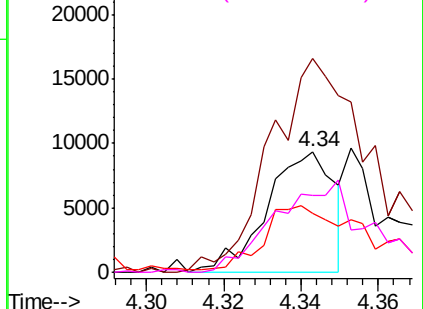
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

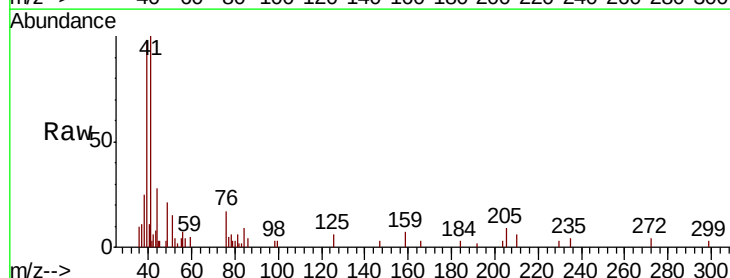
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21
Allyl Chloride
Concen: 0.047 ppbv
RT: 4.41 min Scan# 505
Delta R.T. 0.01 min
Lab File: VL036214.D
Acq: 13 Jan 2021 5:07

Tgt Ion:	41	Resp:	6066
Ion	Ratio	Lower	Upper
41	100		
76	0.0	20.5	30.7#
39	194.1	67.8	101.8#

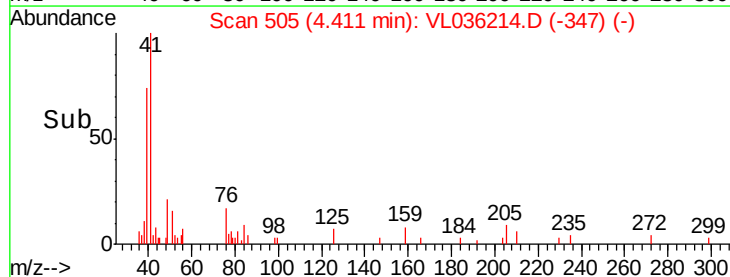
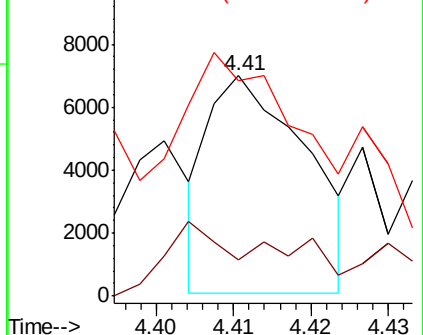


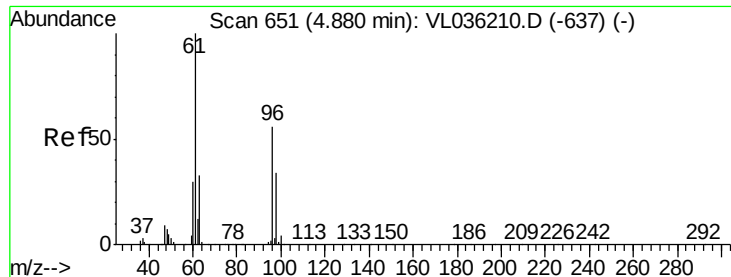
Abundance

Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.071 ppbv

RT: 4.88 min Scan# 652

Delta R.T. 0.00 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

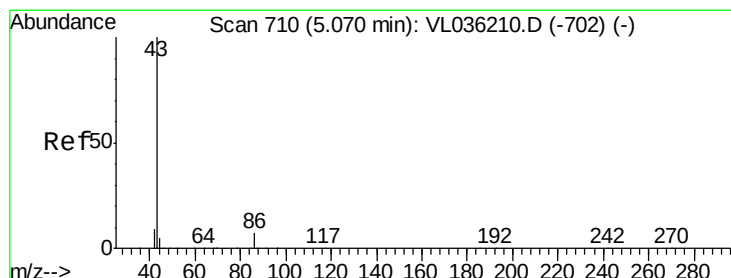
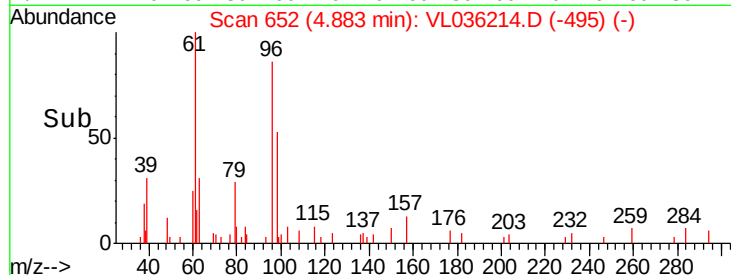
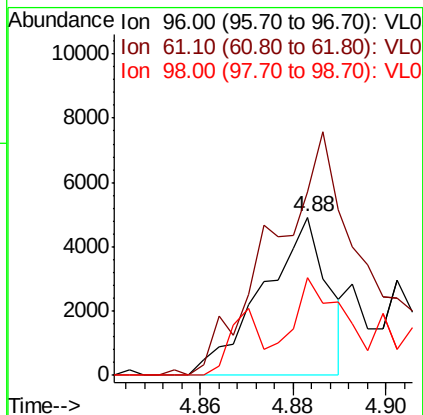
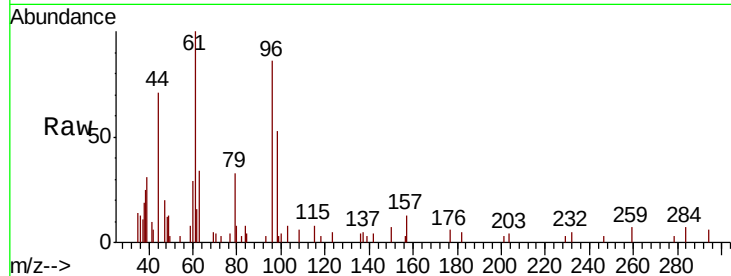
Tot Ion: 96 Resp: 4765

Ion Ratio Lower Upper

96 100

61 116.1 142.7 214.1#

98 61.9 48.7 73.1



#23

Vinyl Acetate

Concen: 0.047 ppbv

RT: 5.08 min Scan# 712

Delta R.T. 0.01 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Tgt Ion: 43 Resp: 12533

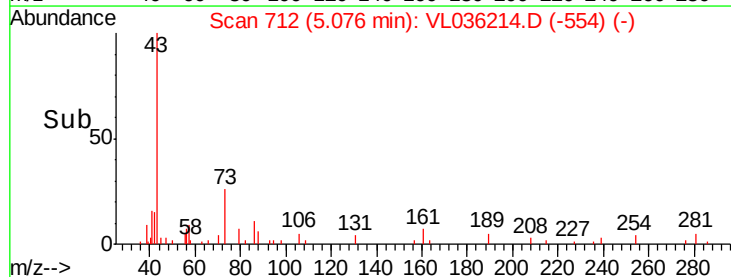
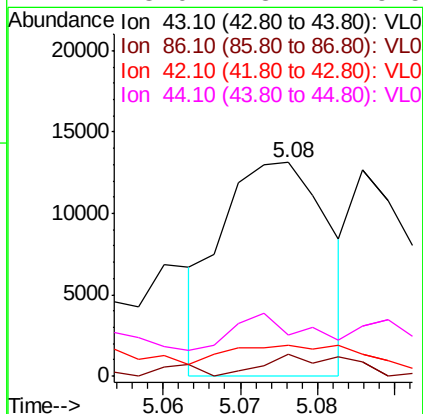
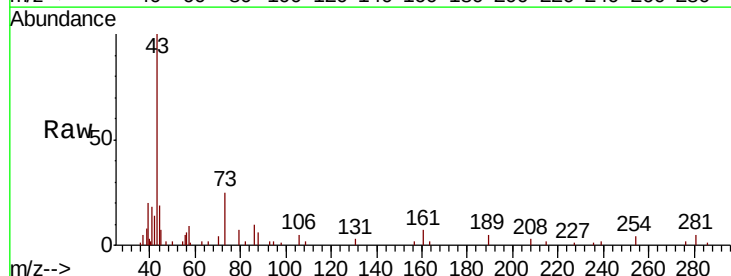
Ion Ratio Lower Upper

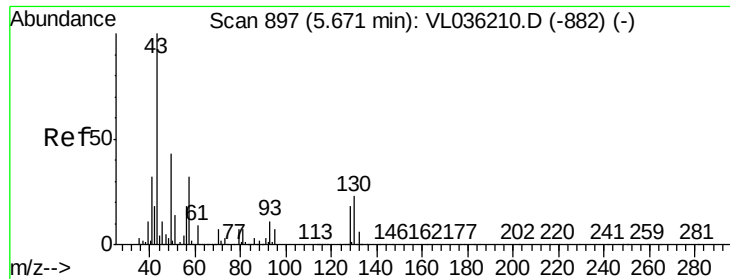
43 100

86 13.0 4.9 7.3#

42 23.3 7.8 11.6#

44 18.0 3.7 5.5#

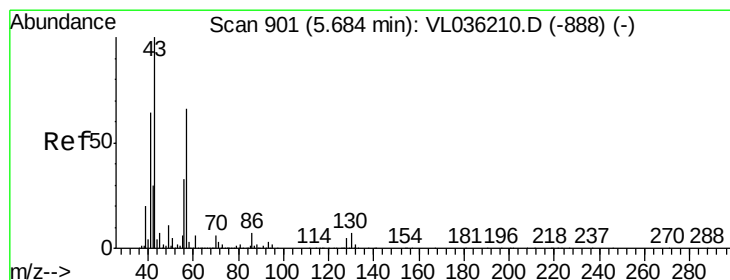
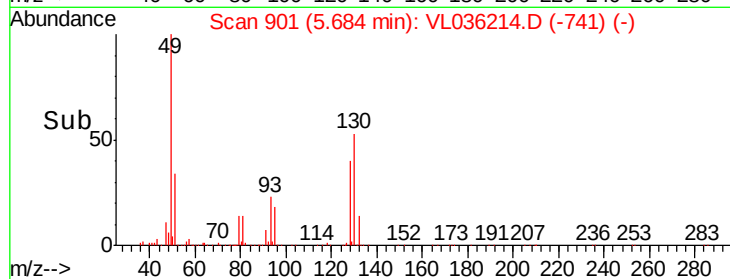
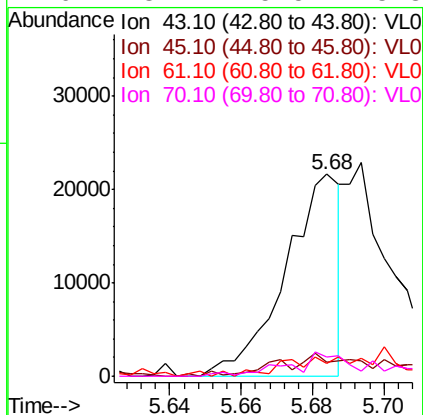
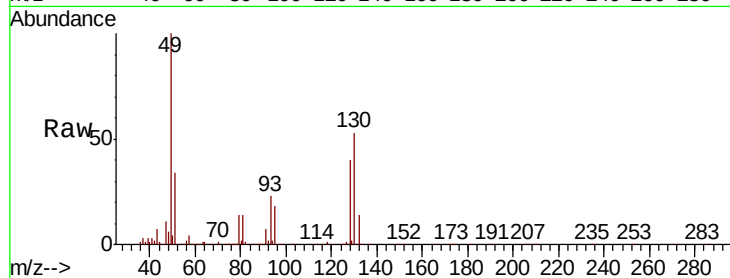




#25
Ethyl Acetate
Concen: 0.058 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.01 min
Lab File: VL036214.D
Acq: 13 Jan 2021 5:07

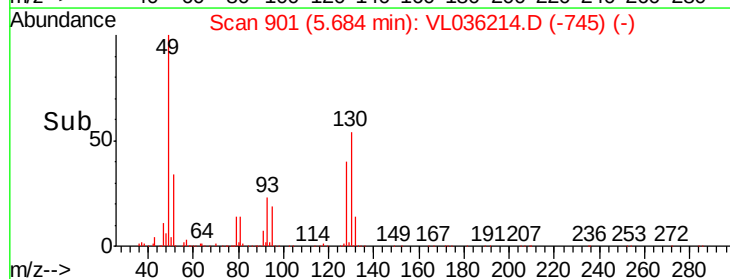
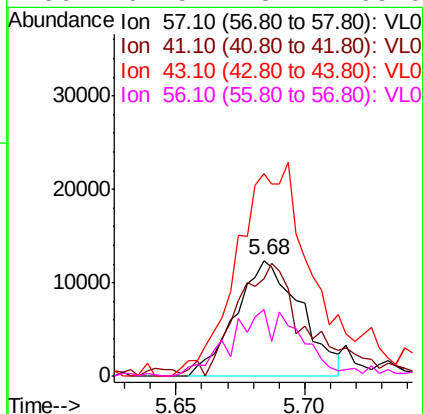
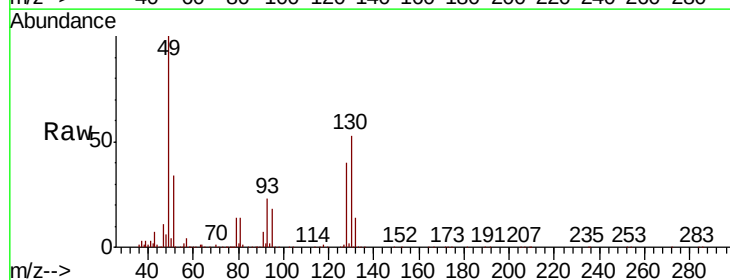
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

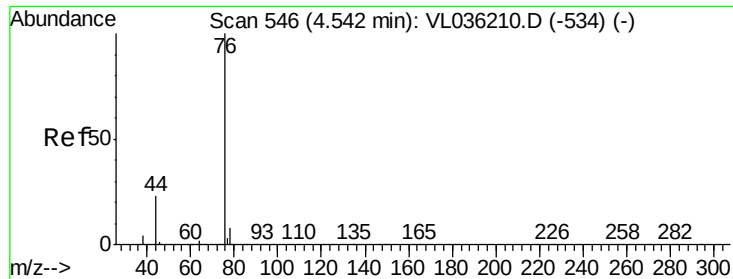
Tot Ion:	43	Resp:	23153
Ion	Ratio	Lower	Upper
43	100		
45	20.0	8.3	12.5#
61	0.0	7.4	11.2#
70	18.2	5.5	8.3#



#26
Hexane
Concen: 0.122 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL036214.D
Acq: 13 Jan 2021 5:07

Tgt Ion:	57	Resp:	21855
Ion	Ratio	Lower	Upper
57	100		
41	108.5	83.0	124.6
43	231.9	202.4	303.6
56	64.5	43.4	65.0





#27

Carbon Disulfide

Concen: 0.047 ppbv

RT: 4.55 min Scan# 549

Delta R.T. 0.01 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

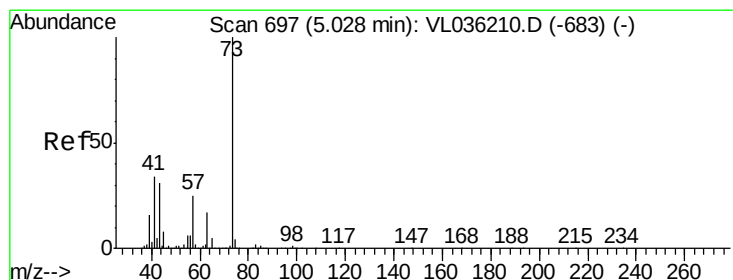
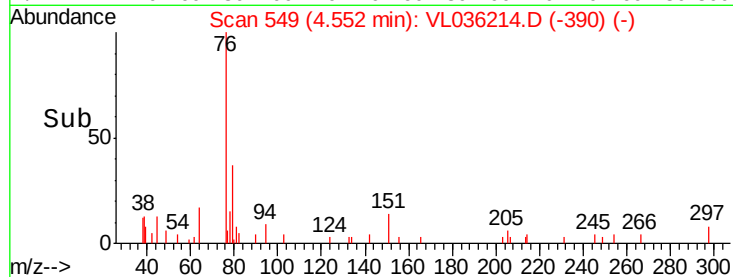
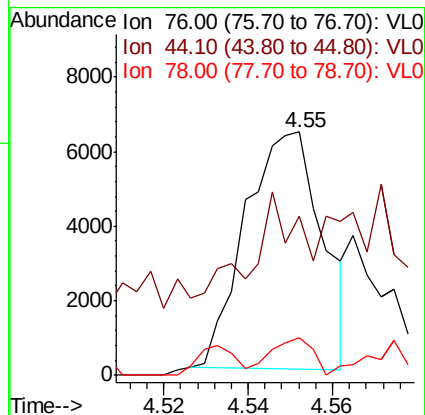
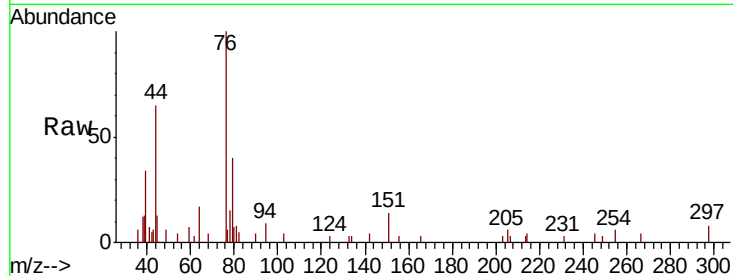
Tot Ion: 76 Resp: 8017

Ion Ratio Lower Upper

76 100

44 0.0 19.0 28.6#

78 23.6 8.0 12.0#



#28

Methyl tert-Butyl Ether

Concen: 0.048 ppbv

RT: 5.05 min Scan# 703

Delta R.T. 0.02 min

Lab File: VL036214.D

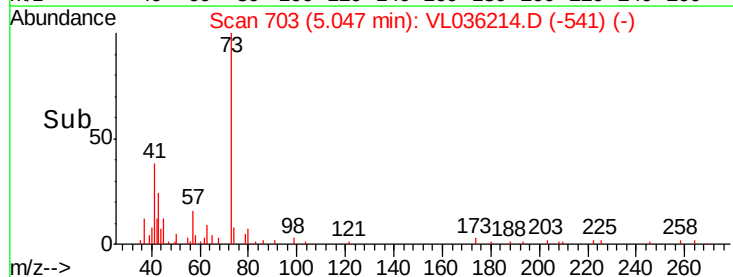
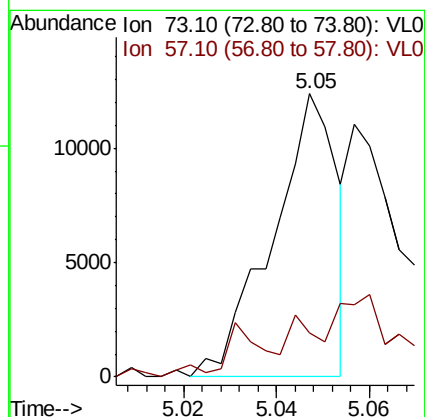
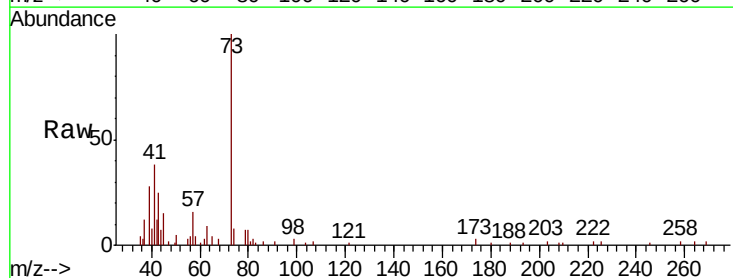
Acq: 13 Jan 2021 5:07

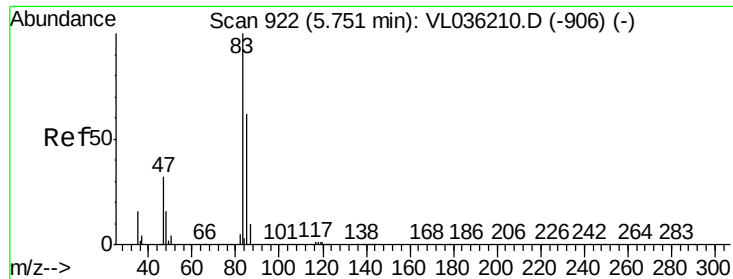
Tgt Ion: 73 Resp: 11917

Ion Ratio Lower Upper

73 100

57 0.0 20.4 30.6#

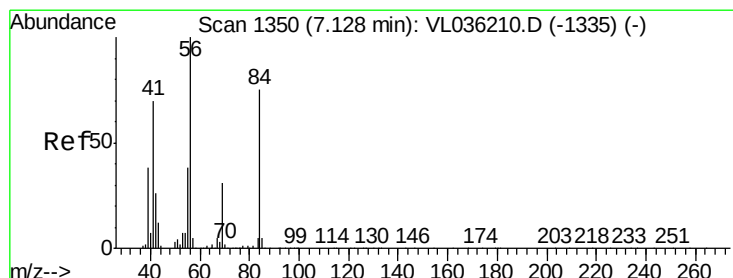
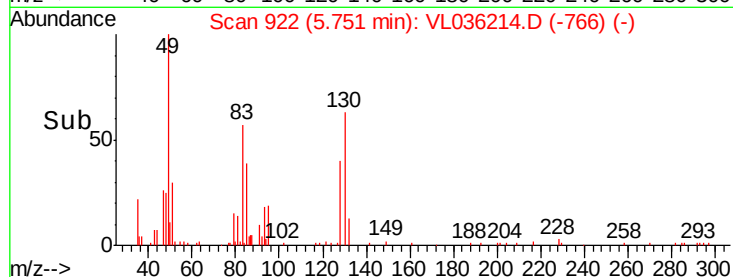
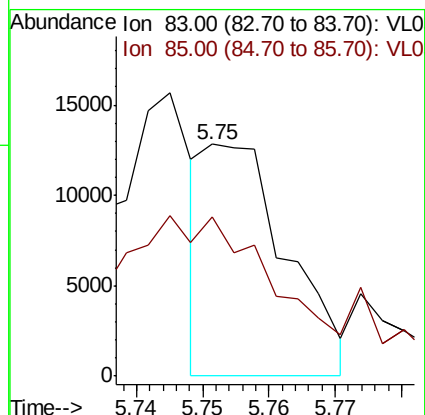
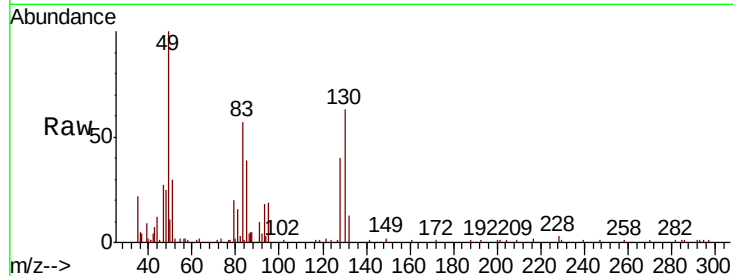




#29
Chloroform
Concen: 0.047 ppbv
RT: 5.75 min Scan# 922
Delta R.T. 0.00 min
Lab File: VL036214.D
Acq: 13 Jan 2021 5:07

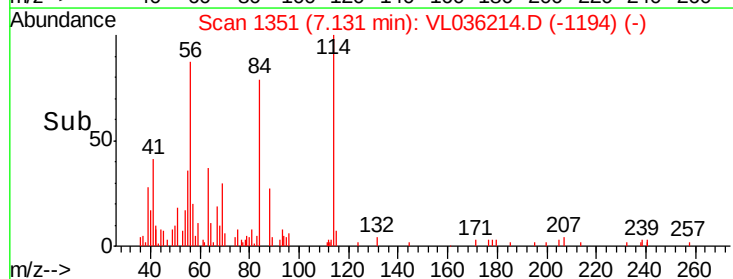
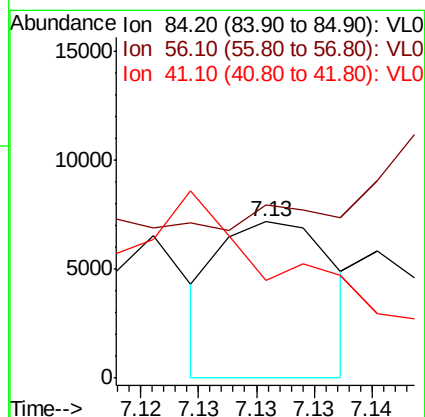
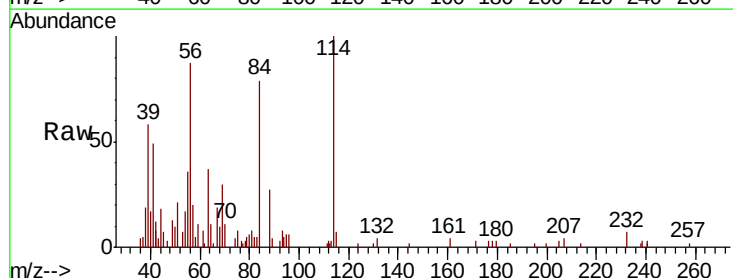
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

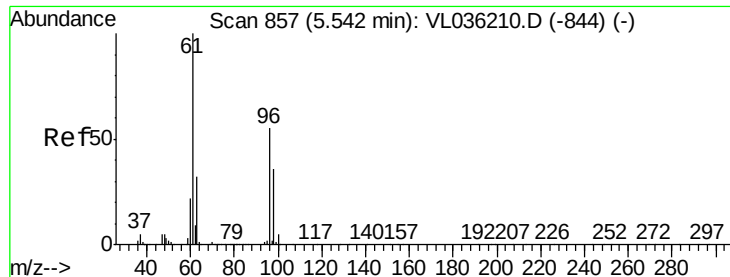
Tot Ion: 83 Resp: 11114
Ion Ratio Lower Upper
83 100
85 60.4 49.3 73.9



#30
Cyclohexane
Concen: 0.037 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. 0.00 min
Lab File: VL036214.D
Acq: 13 Jan 2021 5:07

Tgt Ion: 84 Resp: 4906
Ion Ratio Lower Upper
84 100
56 0.0 119.4 179.0#
41 0.0 79.4 119.0#





#31

cis-1,2-Dichloroethene

Concen: 0.053 ppbv

RT: 5.55 min Scan# 858

Delta R.T. 0.00 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

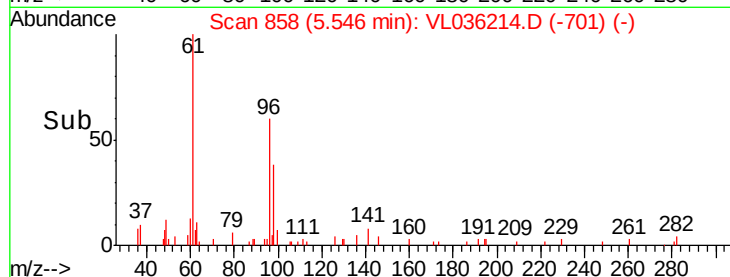
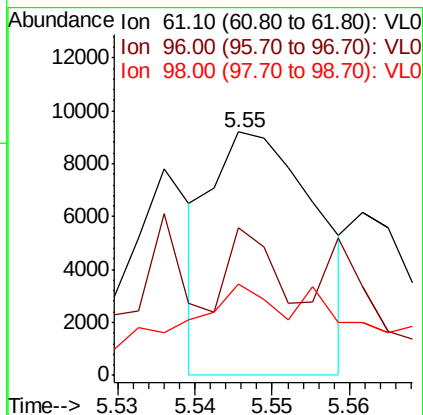
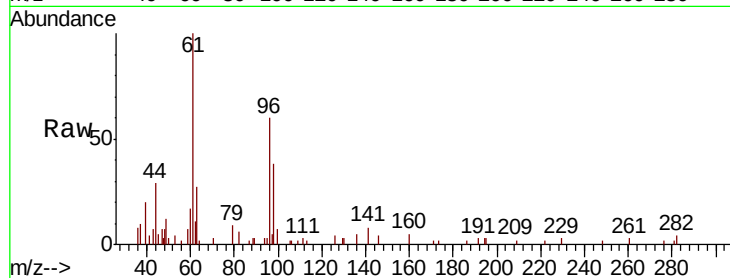
Tot Ion: 61 Resp: 8673

Ion Ratio Lower Upper

61 100

96 72.9 44.1 66.1#

98 37.3 28.6 42.8



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

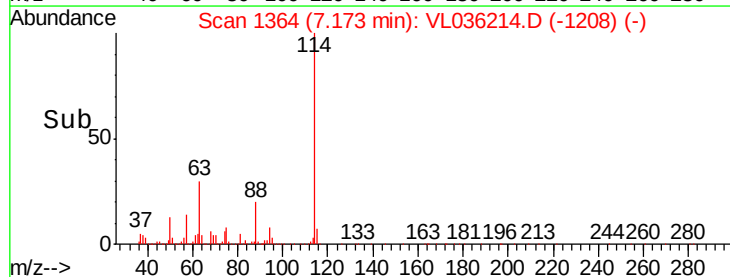
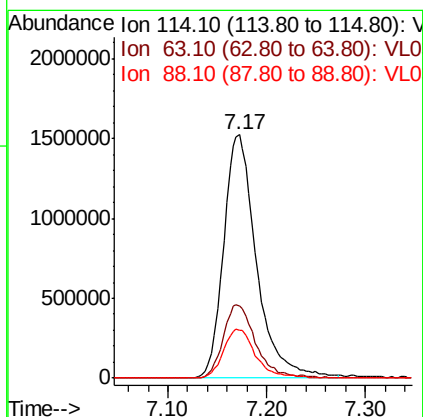
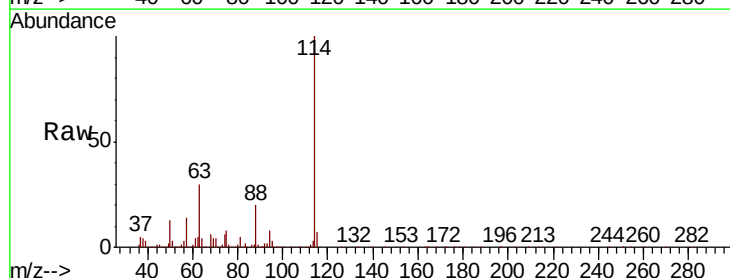
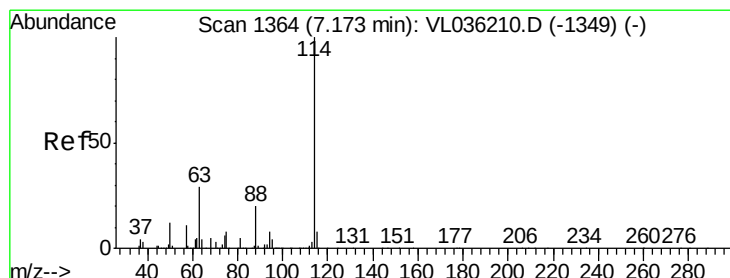
Tgt Ion: 114 Resp: 3555532

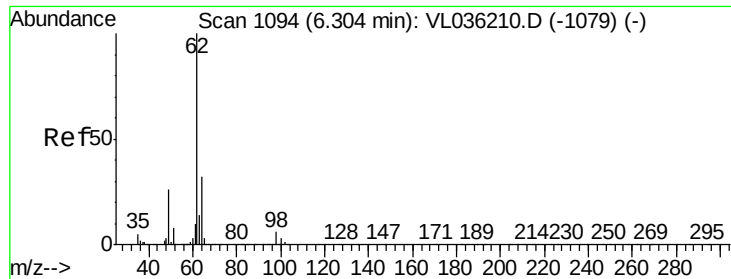
Ion Ratio Lower Upper

114 100

63 30.6 24.7 37.1

88 20.3 16.6 24.8

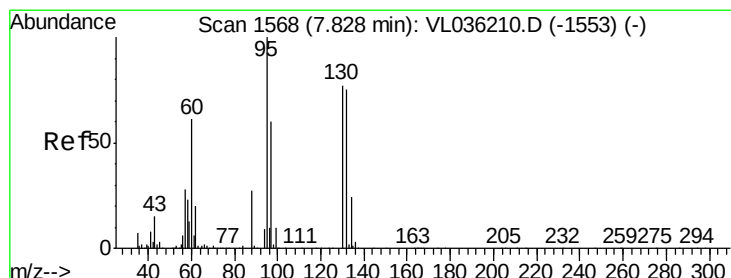
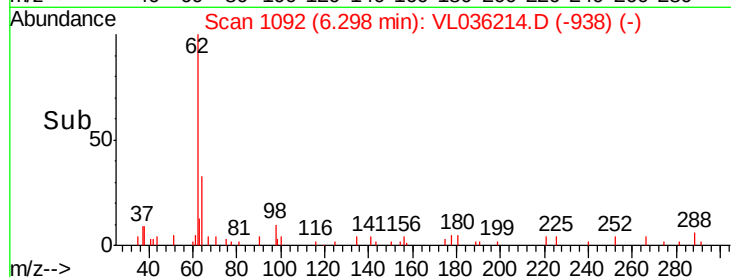
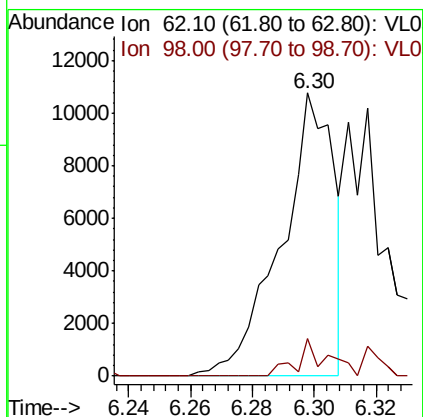
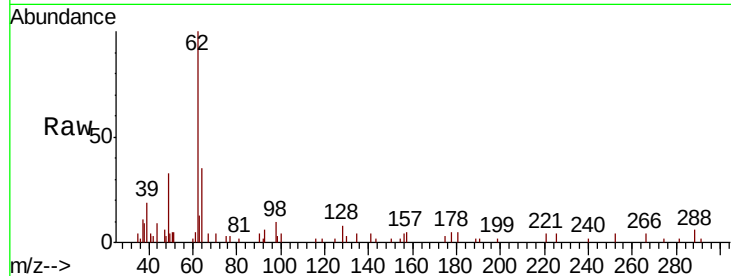




#37
 1,2-Dichloroethane
 Concen: 0.072 ppbv
 RT: 6.30 min Scan# 1092
 Delta R.T. -0.01 min
 Lab File: VL036214.D
 Acq: 13 Jan 2021 5:07

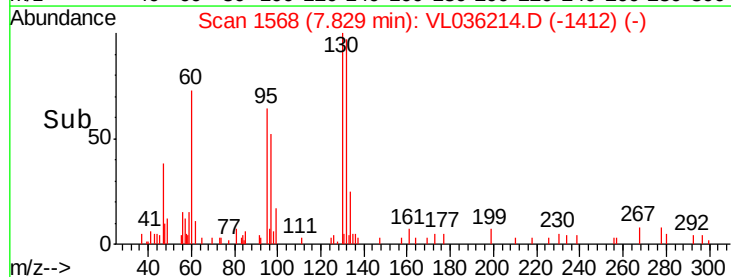
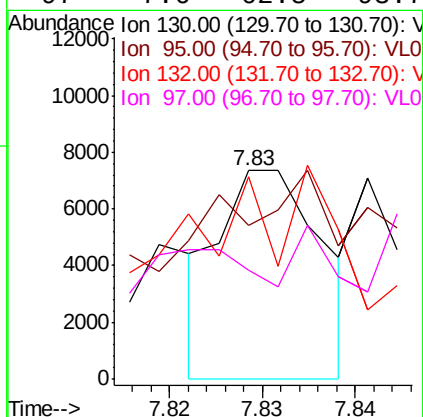
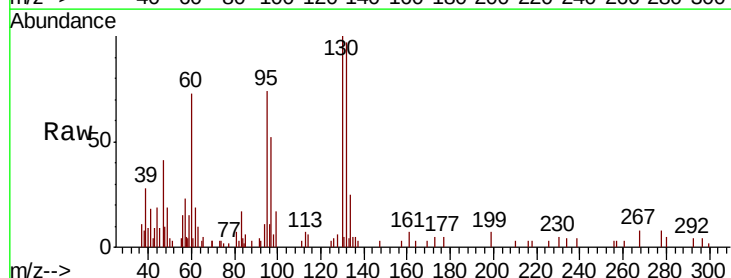
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

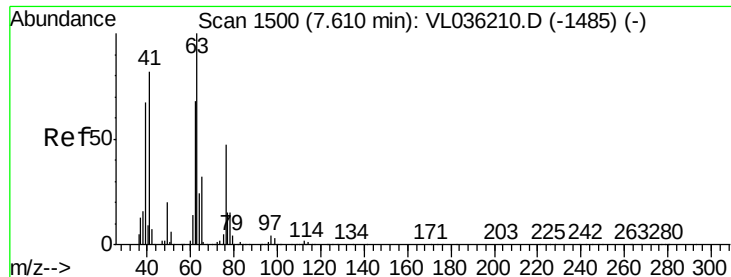
Tot Ion: 62 Resp: 12739
 Ion Ratio Lower Upper
 62 100
 98 10.7 4.4 6.6#



#38
 Trichloroethene
 Concen: 0.050 ppbv
 RT: 7.83 min Scan# 1568
 Delta R.T. 0.00 min
 Lab File: VL036214.D
 Acq: 13 Jan 2021 5:07

Tgt Ion: 130 Resp: 5628
 Ion Ratio Lower Upper
 130 100
 95 20.3 103.9 155.9#
 132 53.2 77.4 116.2#
 97 7.6 62.5 93.7#





#39

1,2-Dichloropropane

Concen: 0.132 ppbv

RT: 7.21 min Scan# 1377

Delta R.T. -0.40 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

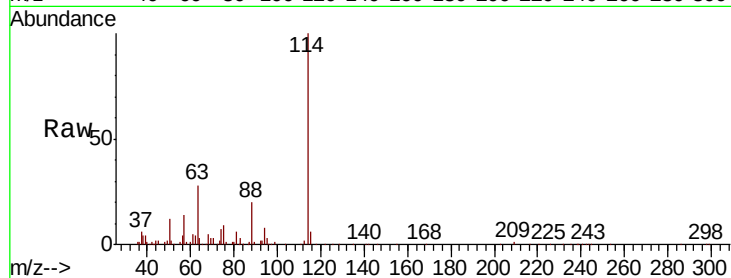
Tot Ion: 63 Resp: 15822

Ion Ratio Lower Upper

63 100

41 2.7 66.1 99.1#

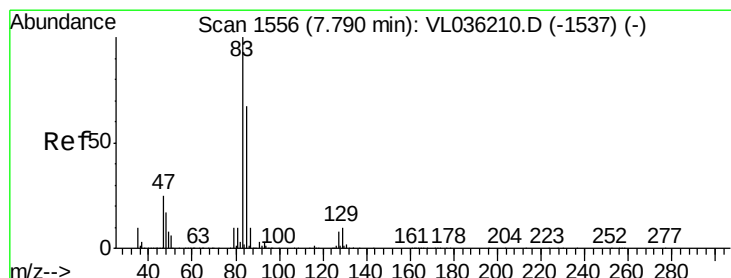
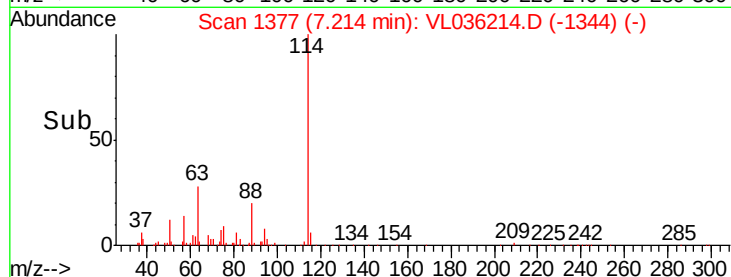
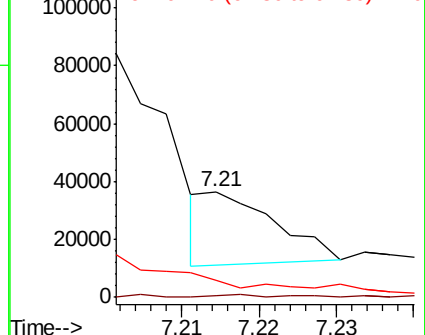
62 5.1 54.8 82.2#



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



#42

Bromodichloromethane

Concen: 0.062 ppbv

RT: 7.79 min Scan# 1556

Delta R.T. 0.00 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

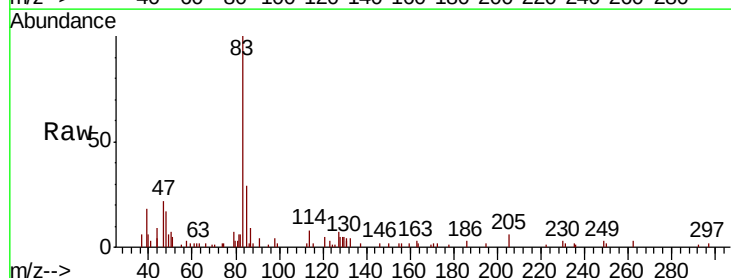
Tgt Ion: 83 Resp: 14529

Ion Ratio Lower Upper

83 100

85 12.5 53.4 80.2#

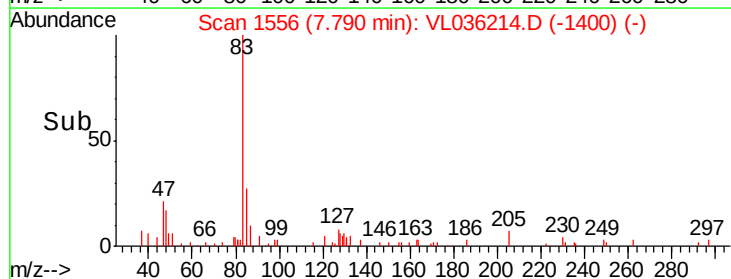
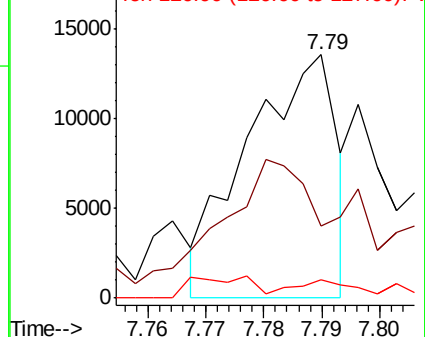
127 2.6 6.2 9.2#

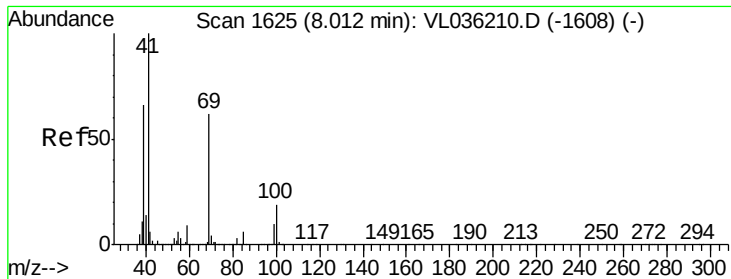


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 0.077 ppbv

RT: 8.02 min Scan# 1627

Delta R.T. 0.01 min

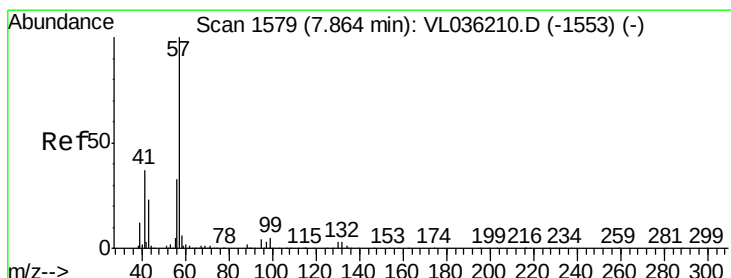
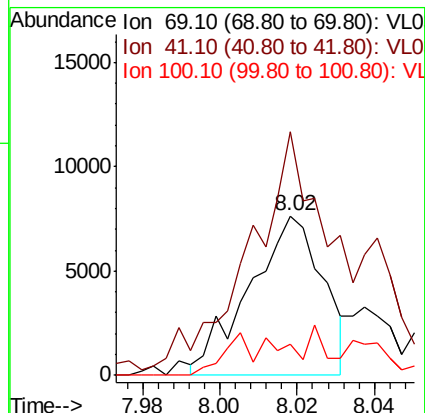
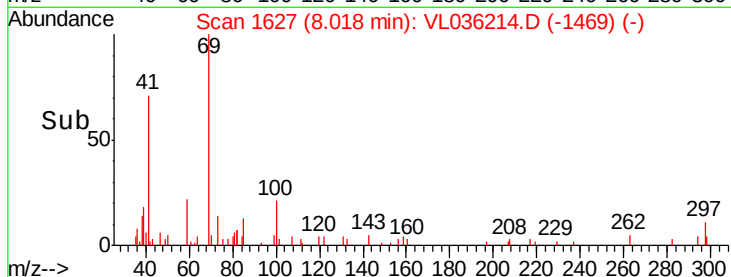
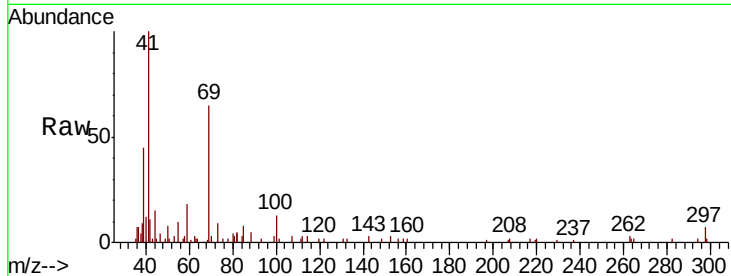
Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tot Ion: 69 Resp: 10064

Ion	Ratio	Lower	Upper
69	100		
41	217.5	133.4	200.2#
100	46.4	24.3	36.5#



#44

2,2,4-Trimethylpentane

Concen: 0.041 ppbv

RT: 7.87 min Scan# 1581

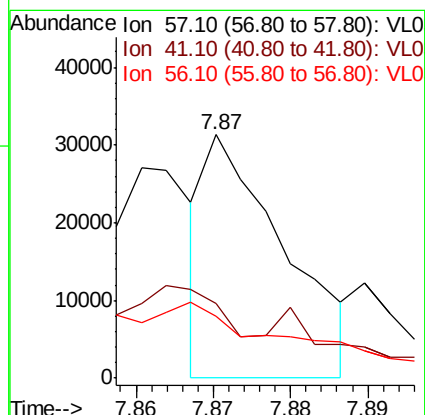
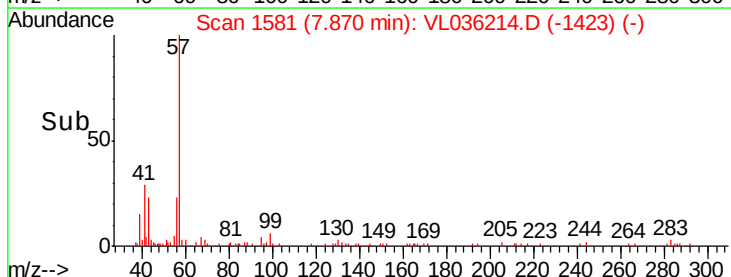
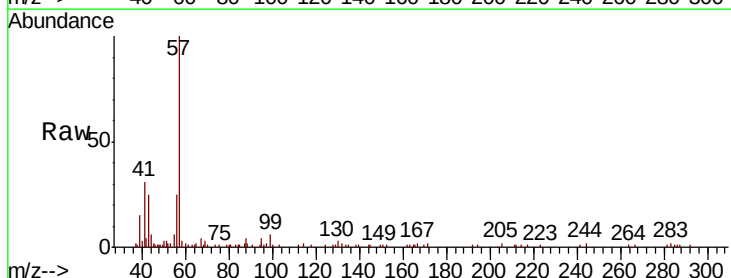
Delta R.T. 0.01 min

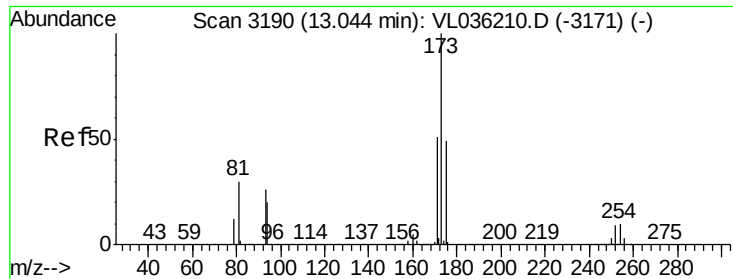
Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Tgt Ion: 57 Resp: 22310

Ion	Ratio	Lower	Upper
57	100		
41	114.3	28.5	42.7#
56	96.7	25.5	38.3#





#49

Bromoform

Concen: 0.047 ppbv

RT: 13.03 min Scan# 3187

Delta R.T. -0.01 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

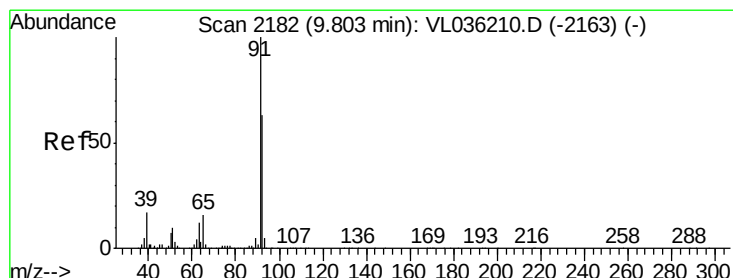
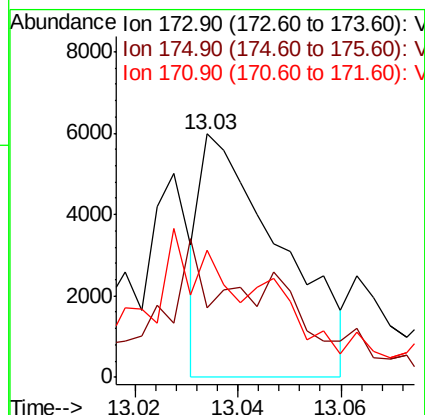
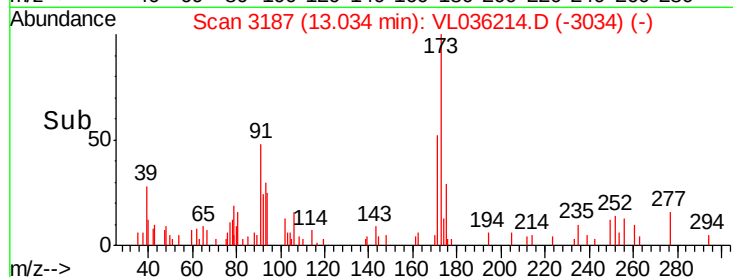
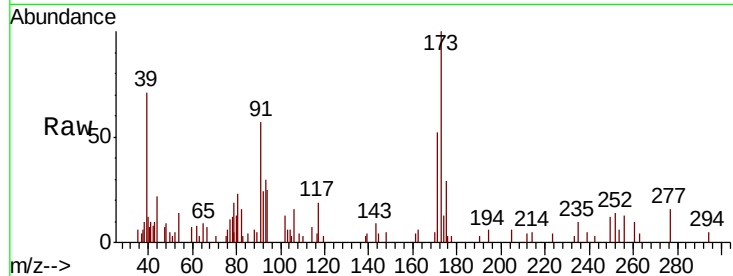
Tot Ion:173 Resp: 6400

Ion Ratio Lower Upper

173 100

175 89.3 40.7 61.1#

171 0.0 43.0 64.6#



#53

Toluene

Concen: 0.045 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL036214.D

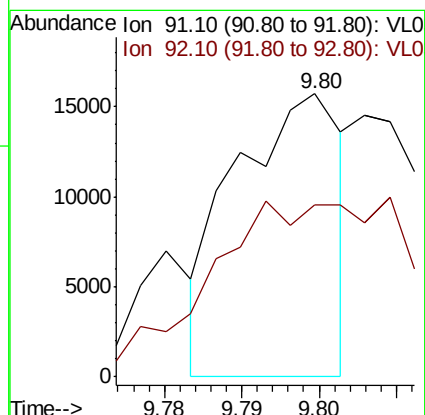
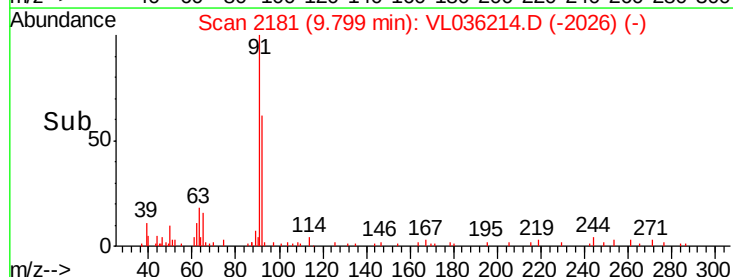
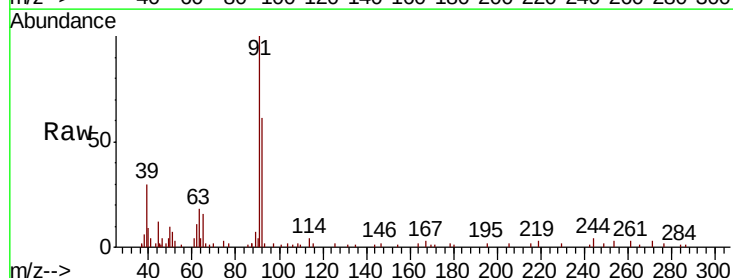
Acq: 13 Jan 2021 5:07

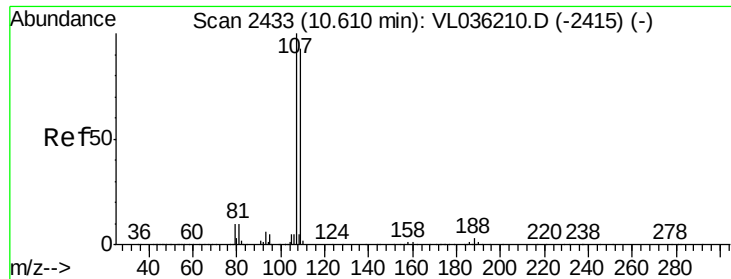
Tgt Ion: 91 Resp: 15166

Ion Ratio Lower Upper

91 100

92 0.0 48.5 72.7#

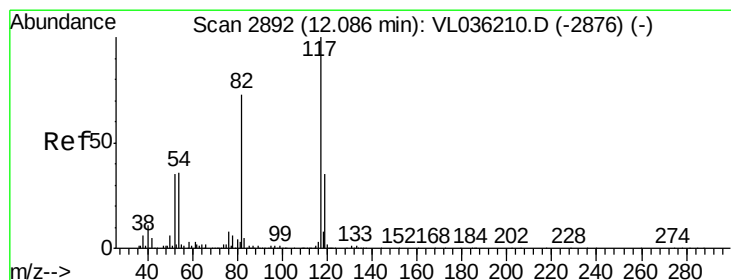
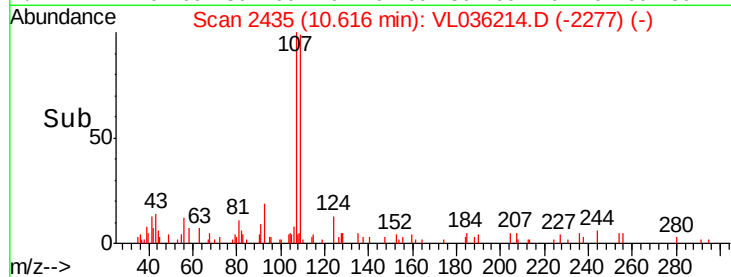
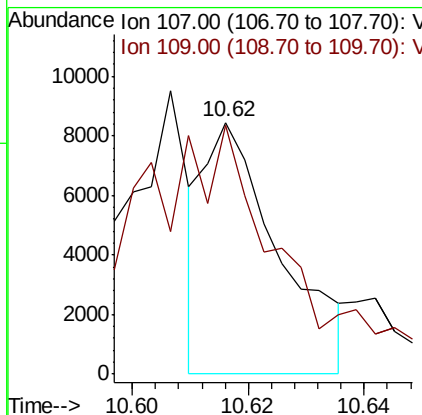
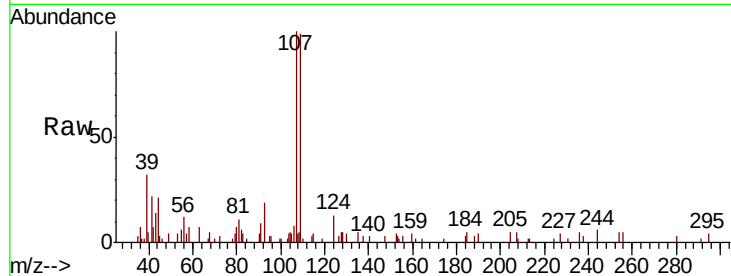




#54
 1,2-Dibromoethane
 Concen: 0.044 ppbv
 RT: 10.62 min Scan# 2435
 Delta R.T. 0.01 min
 Lab File: VL036214.D
 Acq: 13 Jan 2021 5:07

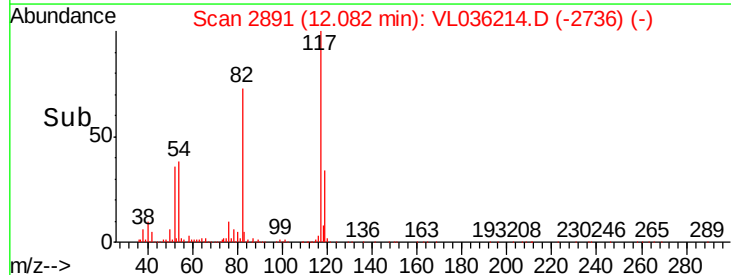
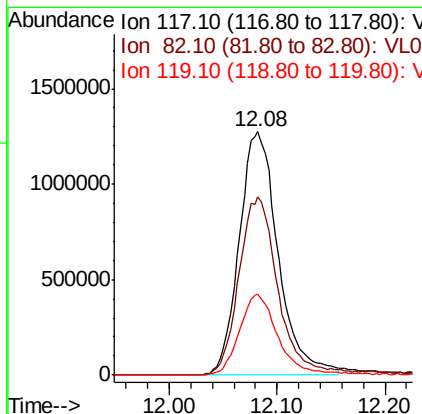
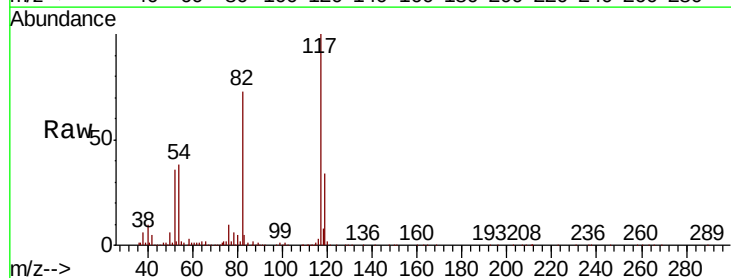
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

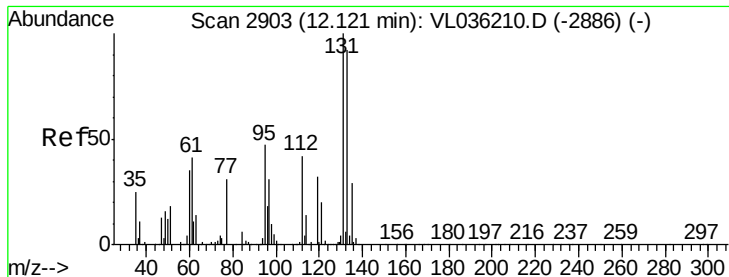
Tot Ion:107 Resp: 7620
 Ion Ratio Lower Upper
 107 100
 109 100.1 74.5 111.7



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.08 min Scan# 2891
 Delta R.T. -0.00 min
 Lab File: VL036214.D
 Acq: 13 Jan 2021 5:07

Tgt Ion:117 Resp: 3201996
 Ion Ratio Lower Upper
 117 100
 82 74.8 59.7 89.5
 119 33.6 28.6 43.0

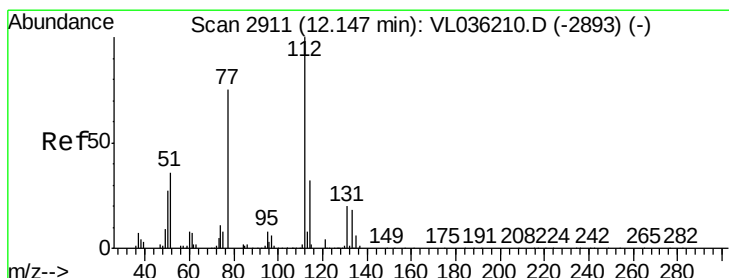
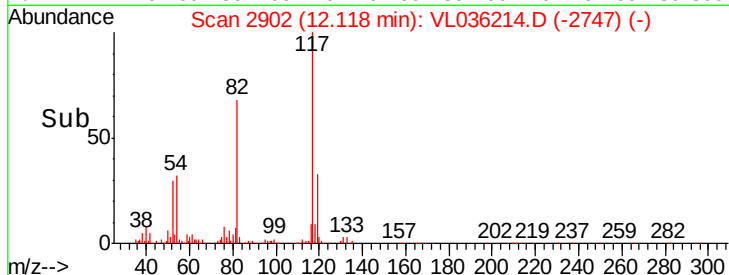
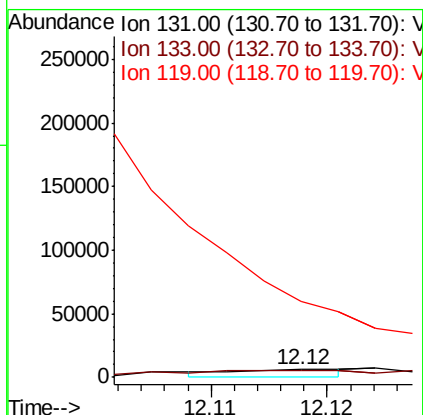
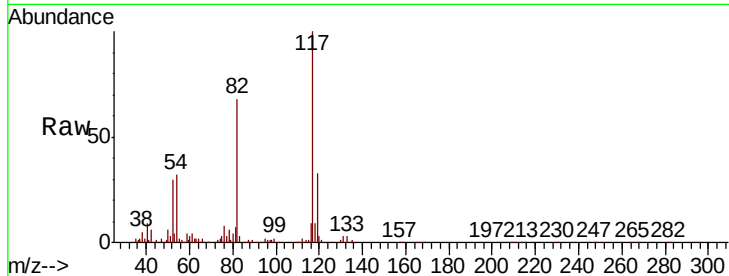




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.032 ppbv
 RT: 12.12 min Scan# 2902
 Delta R.T. -0.00 min
 Lab File: VL036214.D
 Acq: 13 Jan 2021 5:07

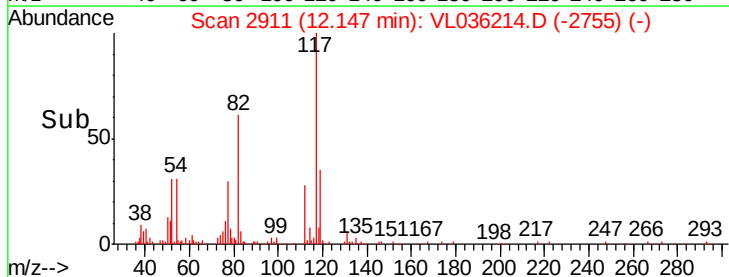
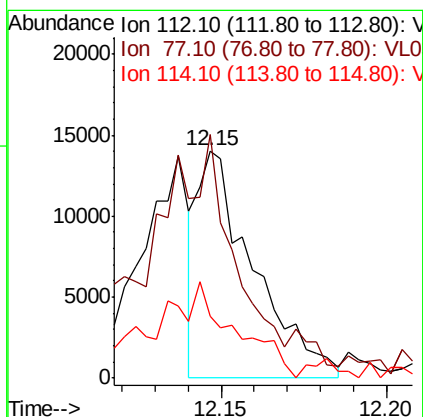
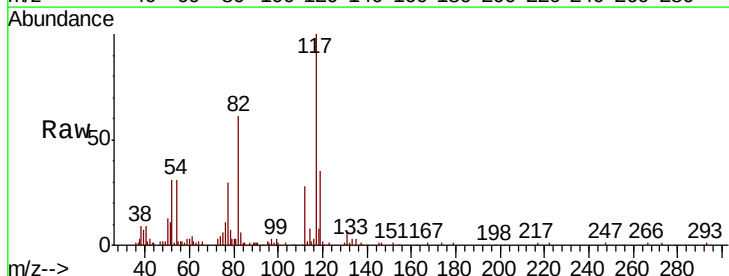
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

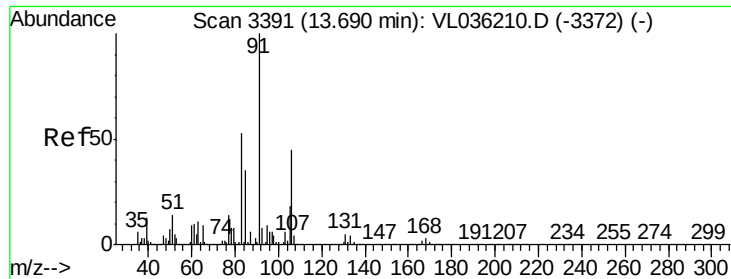
Tot Ion:131 Resp: 4266
 Ion Ratio Lower Upper
 131 100
 133 312.2 76.5 114.7#
 119 0.0 45.4 68.0#



#57
 Chlorobenzene
 Concen: 0.073 ppbv
 RT: 12.15 min Scan# 2911
 Delta R.T. 0.00 min
 Lab File: VL036214.D
 Acq: 13 Jan 2021 5:07

Tgt Ion:112 Resp: 16443
 Ion Ratio Lower Upper
 112 100
 77 106.6 59.6 89.4#
 114 25.7 28.7 35.1#

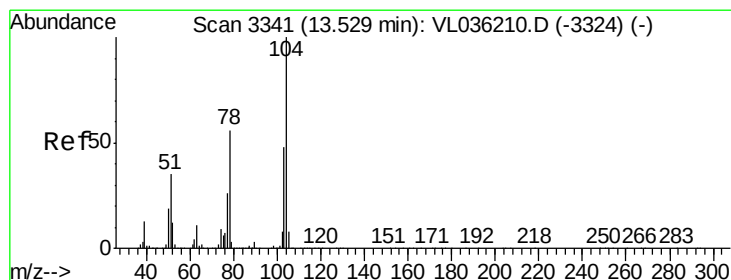
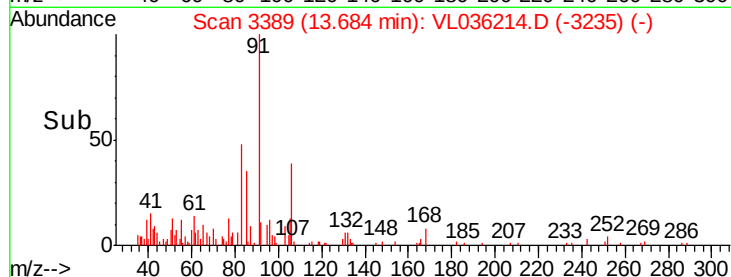
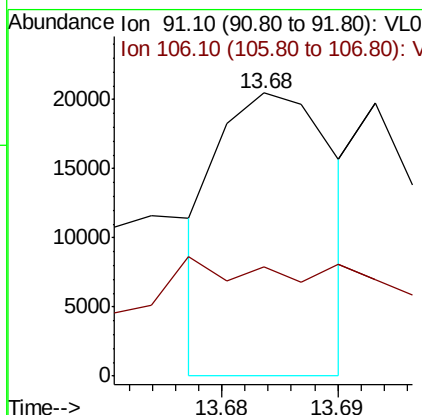
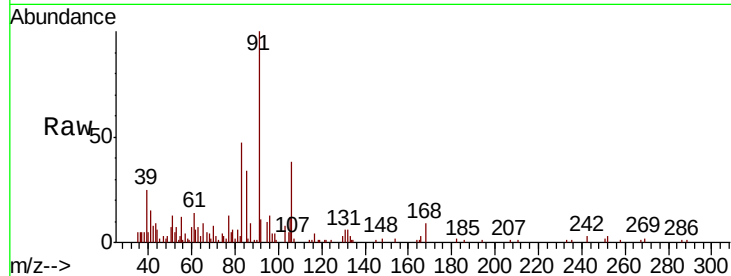




#60
o-Xylene
Concen: 0.041 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. -0.01 min
Lab File: VL036214.D
Acq: 13 Jan 2021 5:07

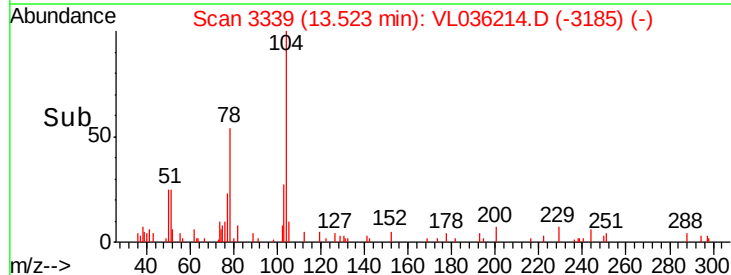
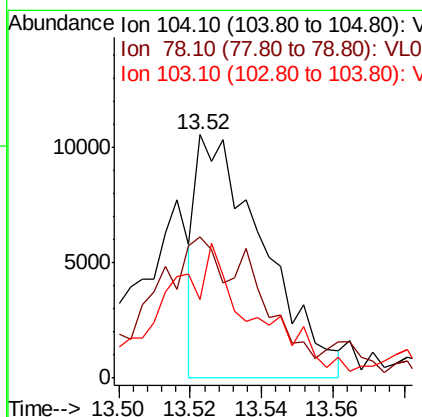
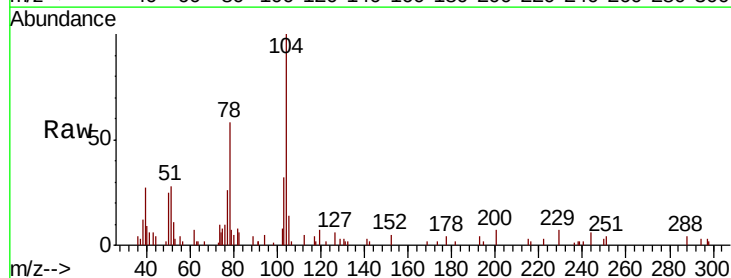
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

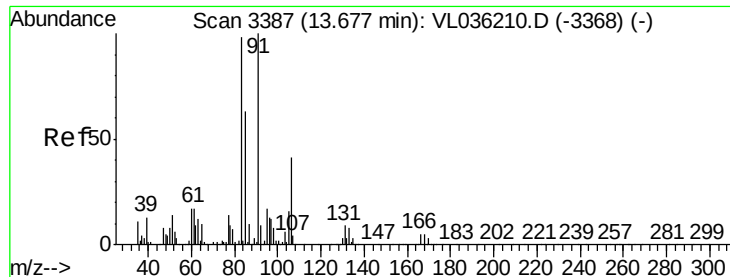
Tot Ion: 91 Resp: 14299
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.8#



#61
Styrene
Concen: 0.060 ppbv
RT: 13.52 min Scan# 3339
Delta R.T. -0.01 min
Lab File: VL036214.D
Acq: 13 Jan 2021 5:07

Tgt Ion: 104 Resp: 13722
Ion Ratio Lower Upper
104 100
78 106.5 46.8 70.2#
103 84.2 38.4 57.6#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.085 ppbv

RT: 13.68 min Scan# 3387

Delta R.T. 0.00 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

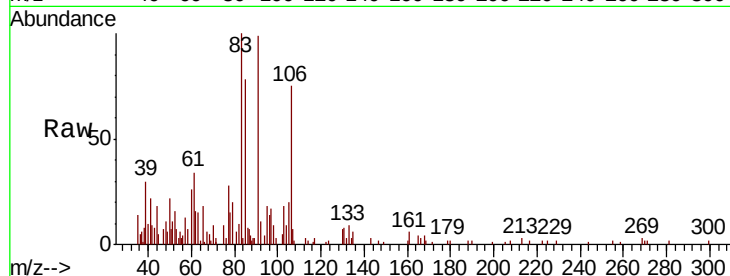
Tot Ion: 83 Resp: 20156

Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.5#

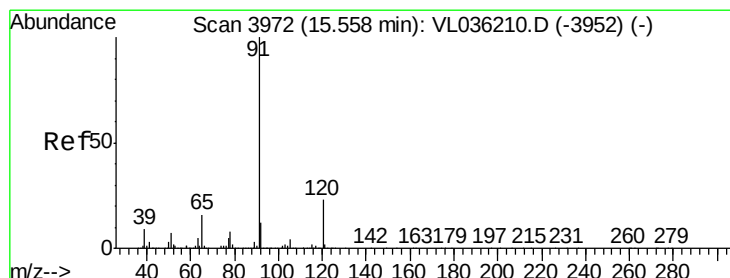
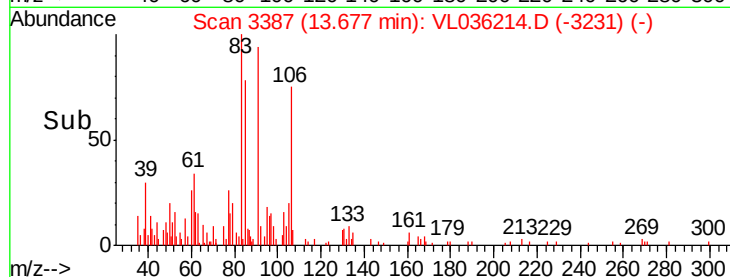
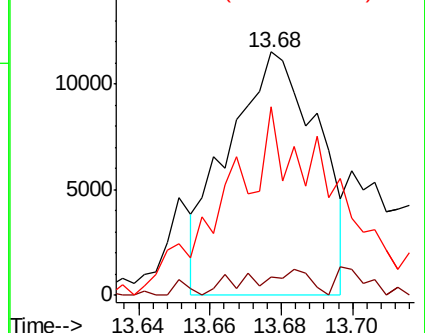
85 104.9 33.1 99.3#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.054 ppbv

RT: 15.55 min Scan# 3970

Delta R.T. -0.01 min

Lab File: VL036214.D

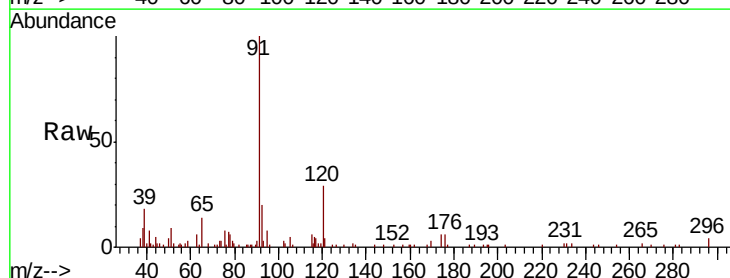
Acq: 13 Jan 2021 5:07

Tgt Ion: 120 Resp: 6832

Ion Ratio Lower Upper

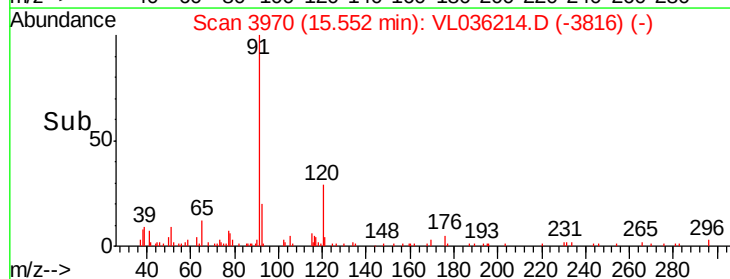
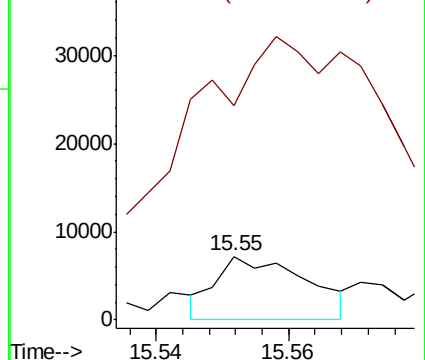
120 100

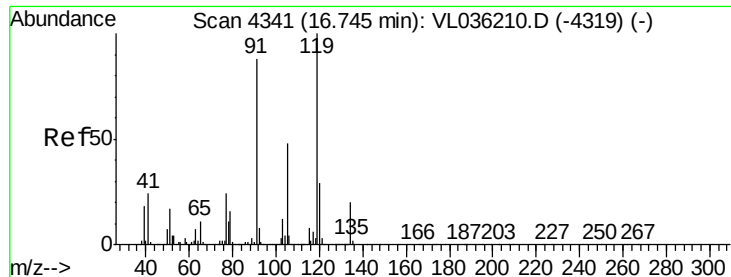
91 1260.0 391.8 587.6#



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.031 ppbv

RT: 16.74 min Scan# 4340

Delta R.T. -0.00 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

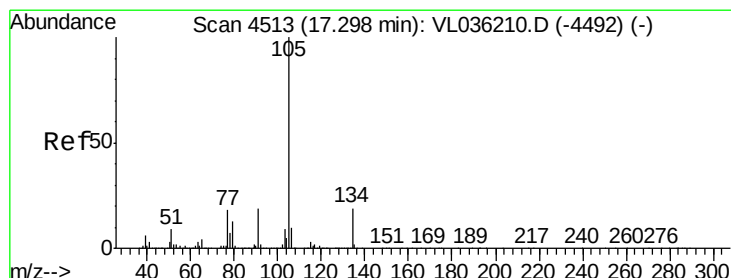
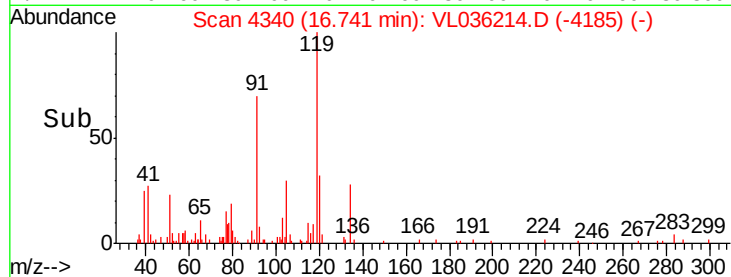
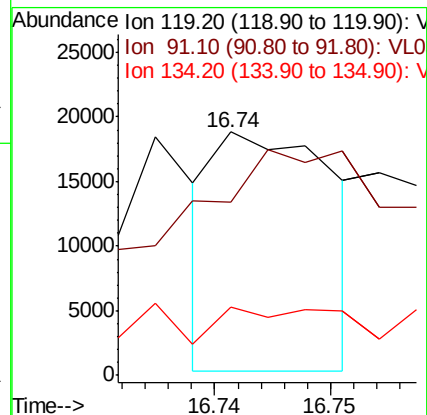
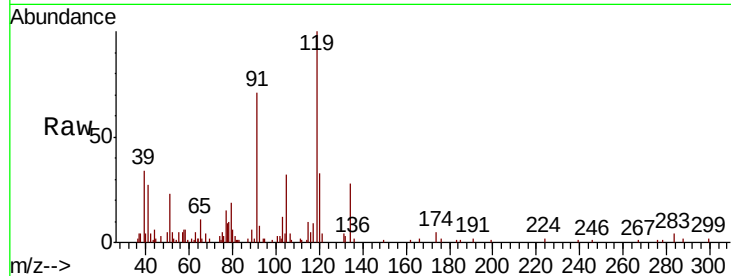
Tot Ion:119 Resp: 13120

Ion Ratio Lower Upper

119 100

91 364.0 71.0 106.6#

134 0.0 15.8 23.6#



#67

sec-Butylbenzene

Concen: 0.066 ppbv

RT: 17.29 min Scan# 4512

Delta R.T. -0.00 min

Lab File: VL036214.D

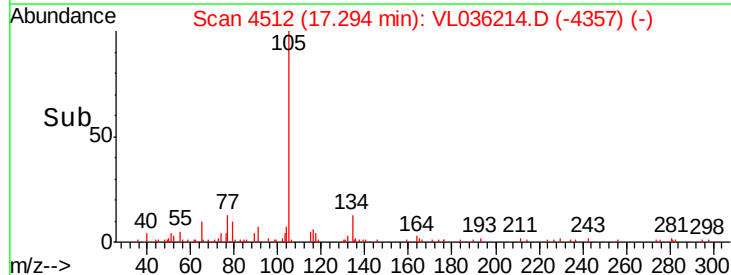
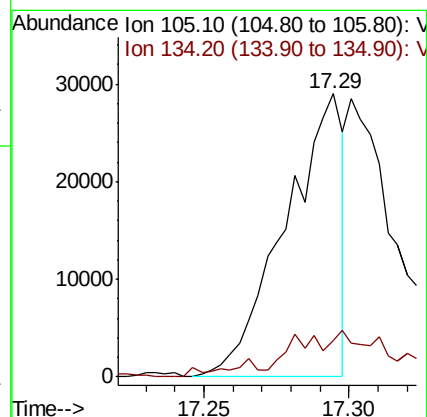
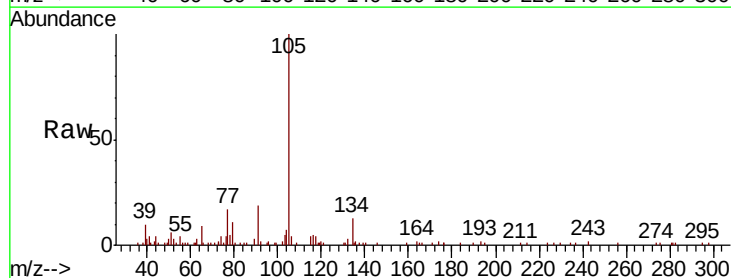
Acq: 13 Jan 2021 5:07

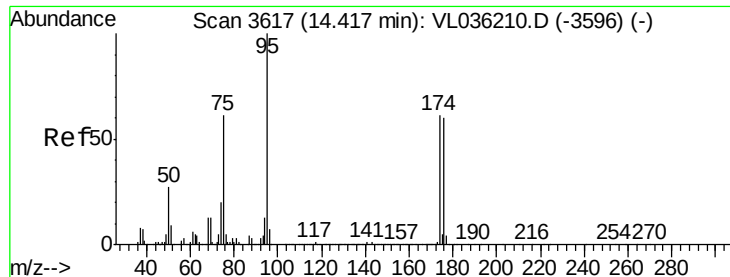
Tgt Ion:105 Resp: 39884

Ion Ratio Lower Upper

105 100

134 0.0 14.2 21.4#

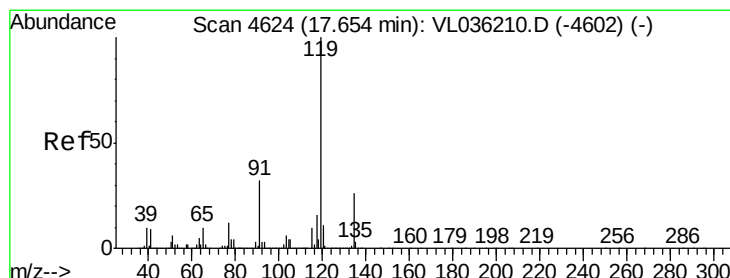
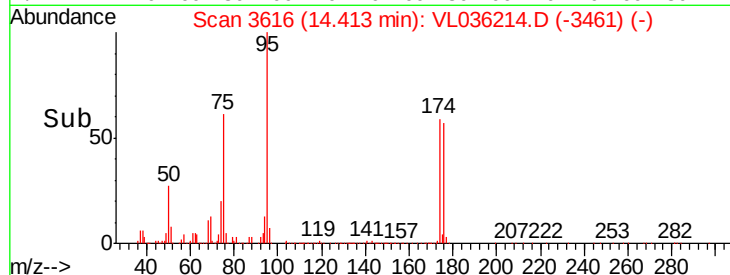
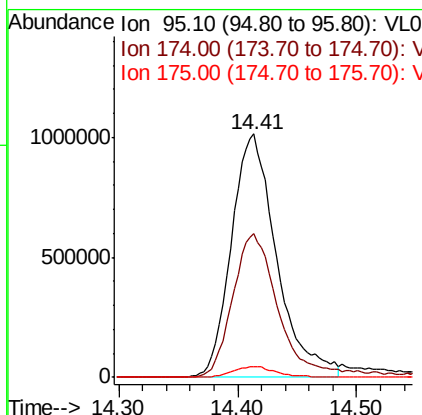
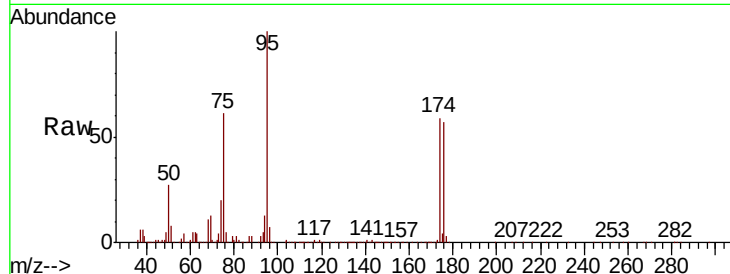




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.363 ppbv
 RT: 14.41 min Scan# 3616
 Delta R.T. -0.00 min
 Lab File: VL036214.D
 Acq: 13 Jan 2021 5:07

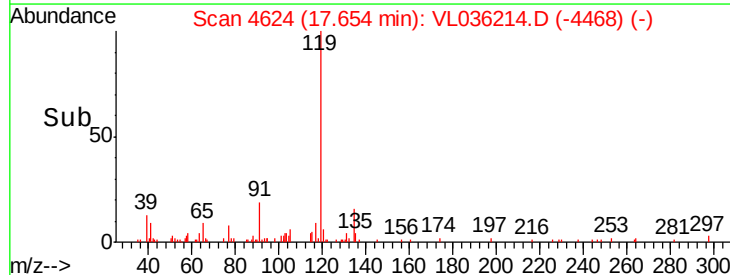
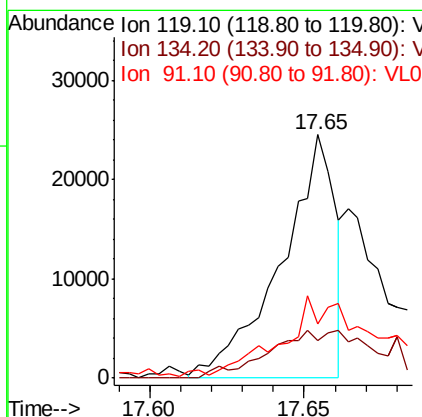
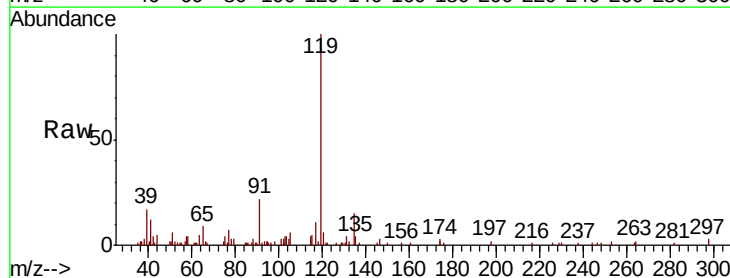
Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC0.1

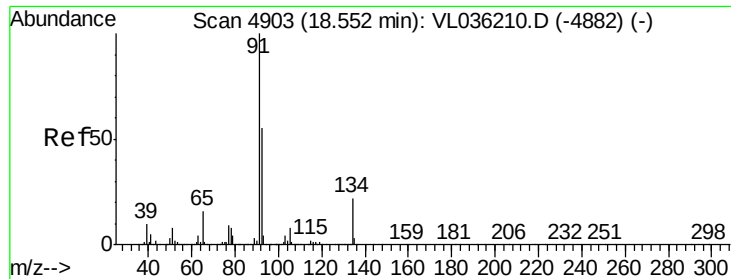
Tot Ion: 95 Resp: 2662084
 Ion Ratio Lower Upper
 95 100
 174 62.9 49.4 74.0
 175 4.6 3.8 5.8



#69
 p-Isopropyltoluene
 Concen: 0.062 ppbv
 RT: 17.65 min Scan# 4624
 Delta R.T. 0.00 min
 Lab File: VL036214.D
 Acq: 13 Jan 2021 5:07

Tgt Ion: 119 Resp: 29784
 Ion Ratio Lower Upper
 119 100
 134 49.3 20.2 30.4#
 91 70.9 26.0 39.0#





#70

n-Butylbenzene

Concen: 0.036 ppbv

RT: 18.55 min Scan# 4902

Delta R.T. -0.00 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

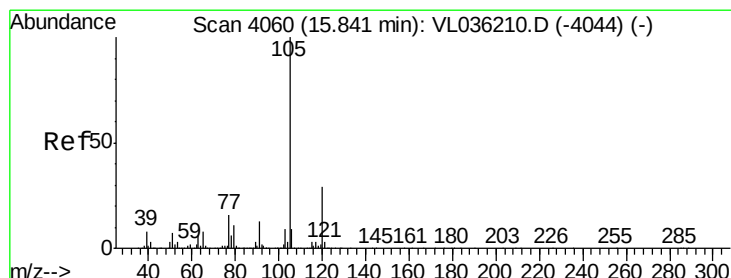
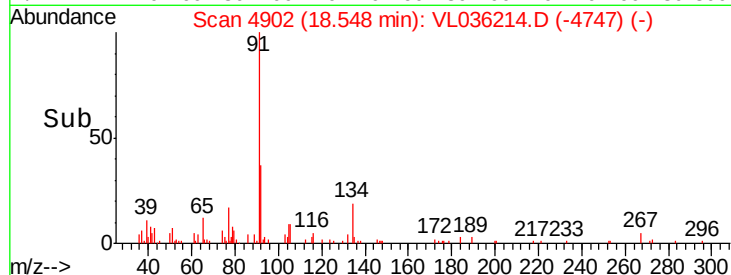
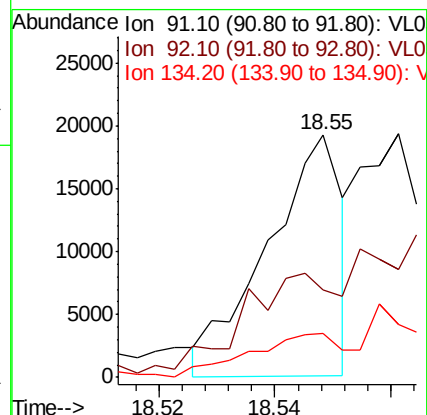
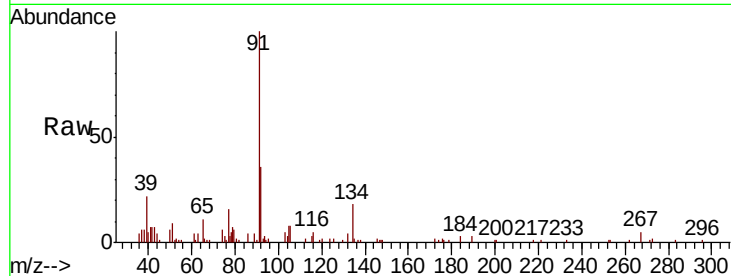
Tot Ion: 91 Resp: 17236

Ion Ratio Lower Upper

91 100

92 0.0 44.0 66.0#

134 0.0 17.0 25.4#



#72

4-Ethyltoluene

Concen: 0.051 ppbv

RT: 15.83 min Scan# 4058

Delta R.T. -0.01 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Tgt Ion: 105 Resp: 19593

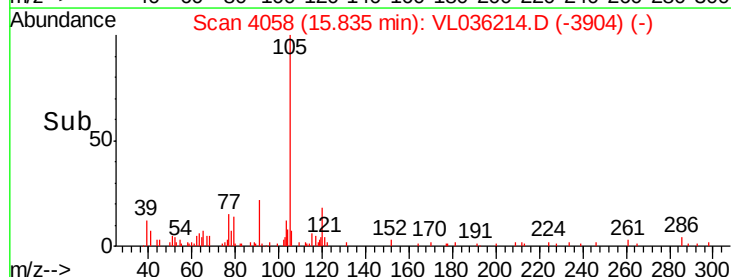
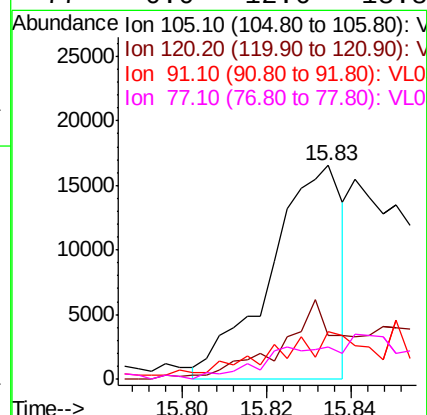
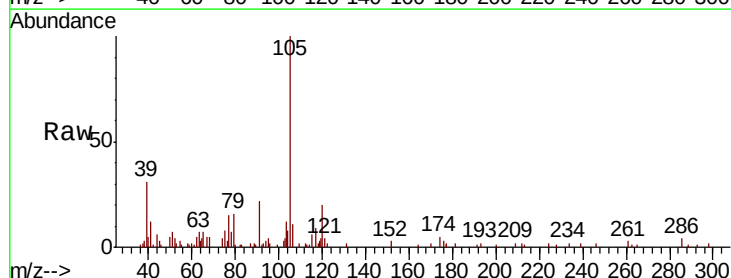
Ion Ratio Lower Upper

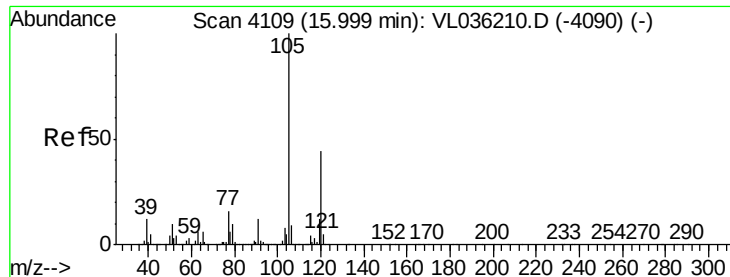
105 100

120 54.3 23.7 35.5#

91 0.0 11.9 17.9#

77 0.0 12.6 18.8#





#73

1,3,5-Trimethylbenzene

Concen: 0.043 ppbv

RT: 16.00 min Scan# 4109

Delta R.T. 0.00 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Instrument :

MSVOA_L

ClientSampleId :

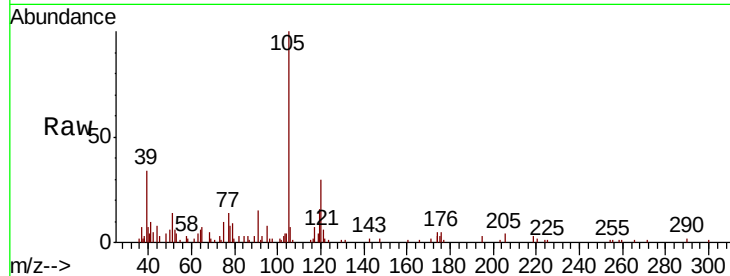
VSTDIC0.1

Tot Ion:105 Resp: 15925

Ion Ratio Lower Upper

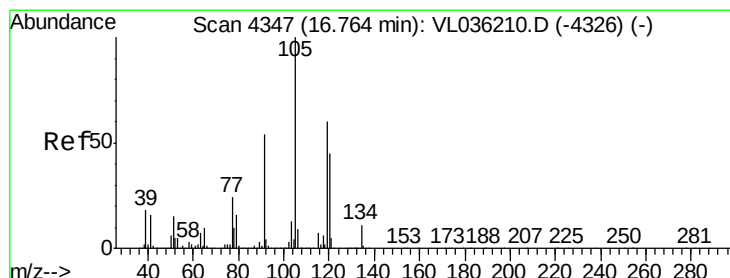
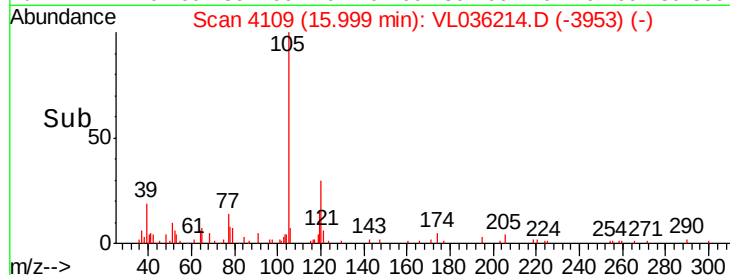
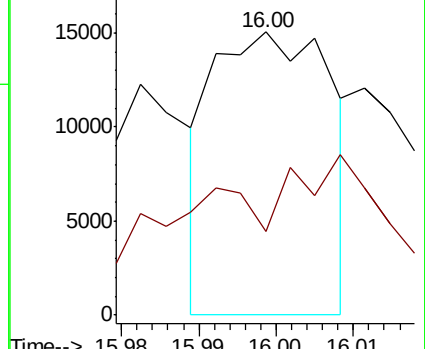
105 100

120 0.0 35.5 53.3#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.069 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. -0.00 min

Lab File: VL036214.D

Acq: 13 Jan 2021 5:07

Tgt Ion:105 Resp: 25629

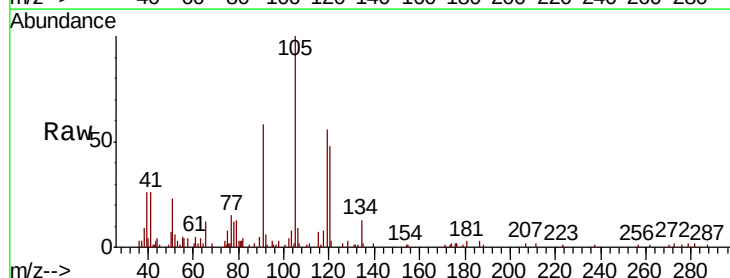
Ion Ratio Lower Upper

105 100

120 45.3 36.2 54.2

91 33.5 43.3 64.9#

77 8.2 19.1 28.7#

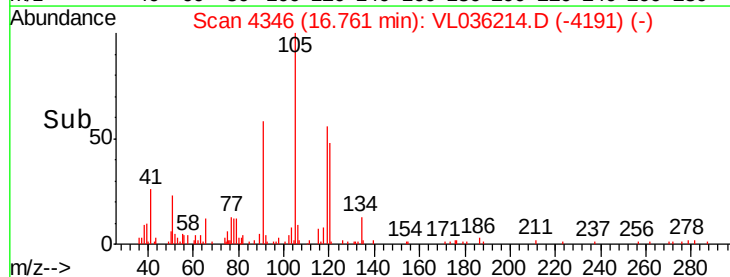
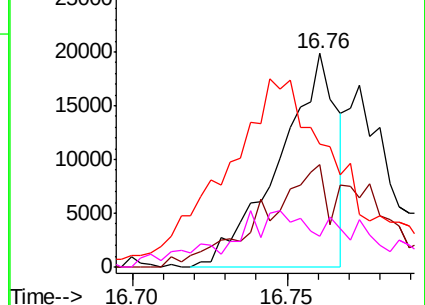


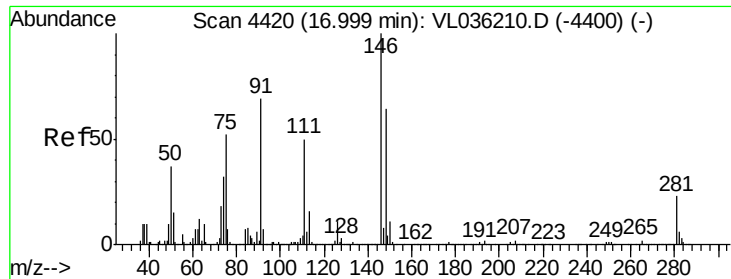
Abundance Ion 105.10 (104.80 to 105.80): V

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

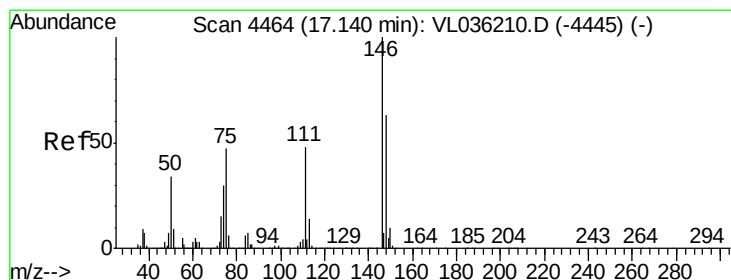
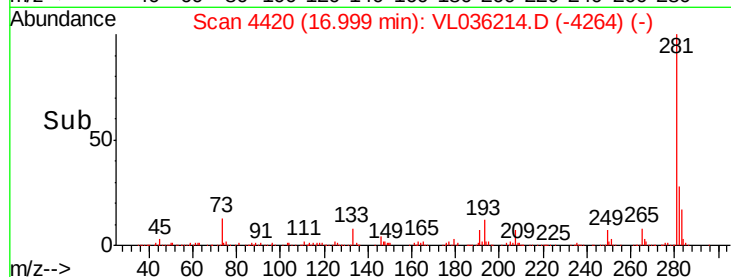
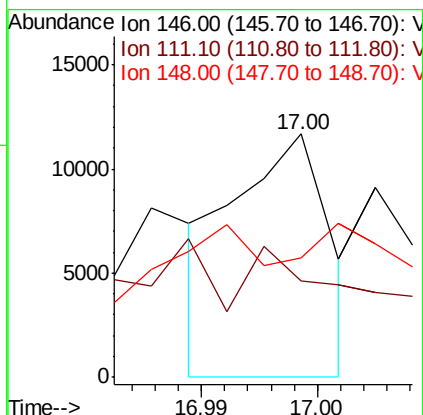
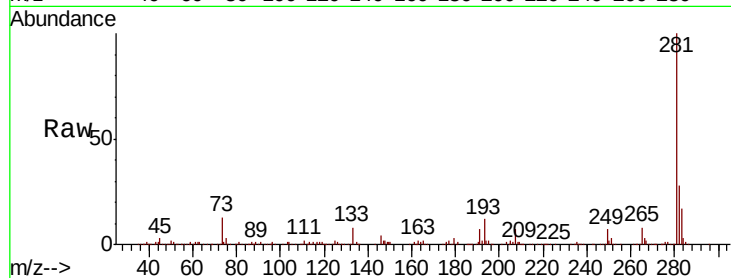




#75
 1,3-Dichlorobenzene
 Concen: 0.036 ppbv
 RT: 17.00 min Scan# 4420
 Delta R.T. 0.00 min
 Lab File: VL036214.D
 Acq: 13 Jan 2021 5:07

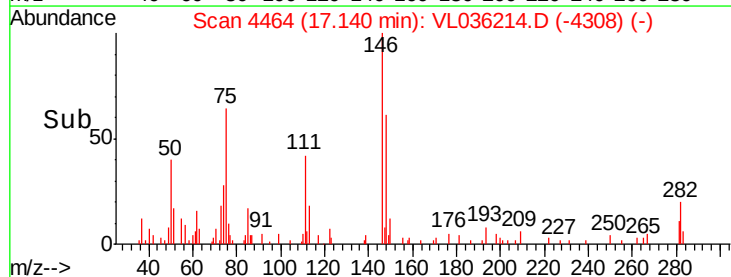
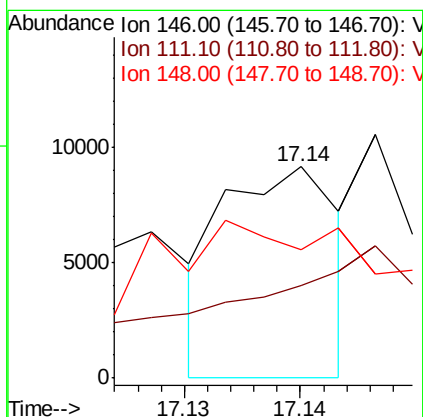
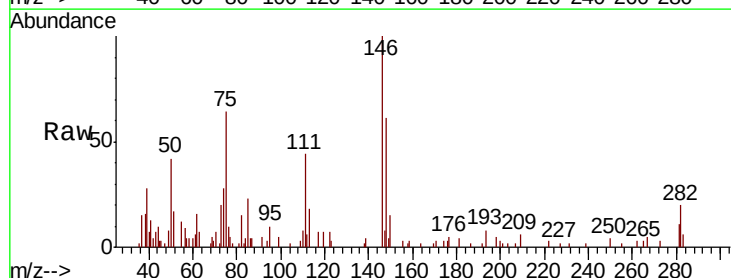
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

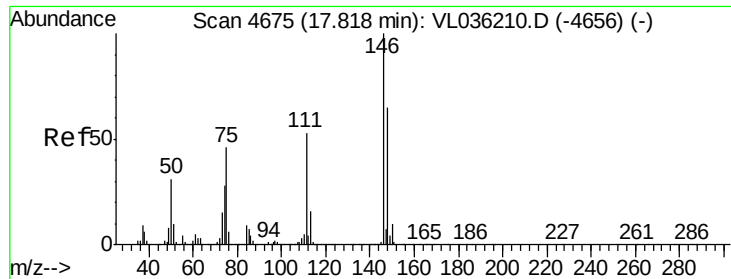
Tot Ion:146 Resp: 6787
 Ion Ratio Lower Upper
 146 100
 111 0.0 25.5 76.5#
 148 0.0 32.4 97.2#



#76
 1,4-Dichlorobenzene
 Concen: 0.033 ppbv
 RT: 17.14 min Scan# 4464
 Delta R.T. 0.00 min
 Lab File: VL036214.D
 Acq: 13 Jan 2021 5:07

Tgt Ion:146 Resp: 6291
 Ion Ratio Lower Upper
 146 100
 111 0.0 25.4 76.0#
 148 280.2 33.3 99.9#

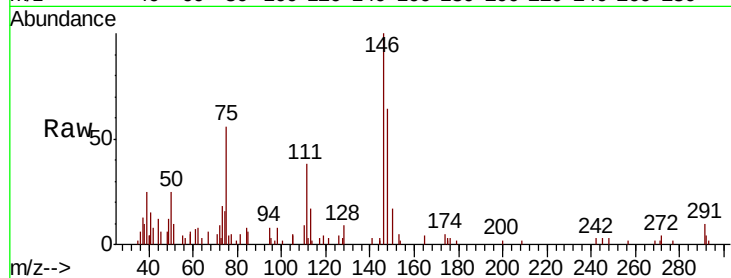




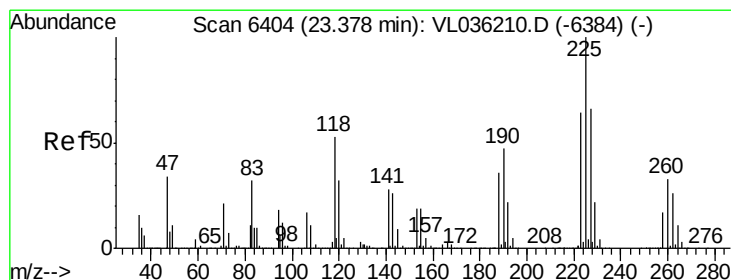
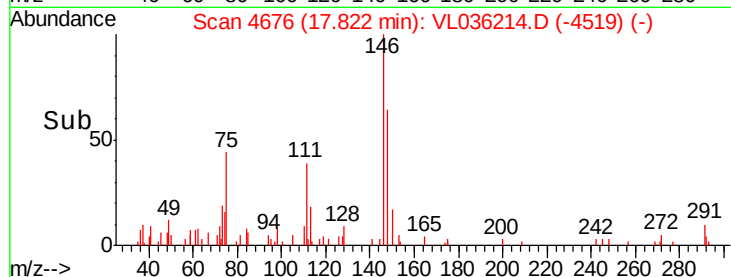
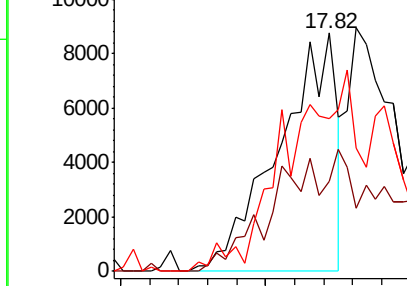
#77
 1,2-Dichlorobenzene
 Concen: 0.067 ppbv
 RT: 17.82 min Scan# 4676
 Delta R.T. 0.00 min
 Lab File: VL036214.D
 Acq: 13 Jan 2021 5:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tot Ion:146 Resp: 12005
 Ion Ratio Lower Upper
 146 100
 111 123.6 26.5 79.4#
 148 0.0 32.8 98.4#

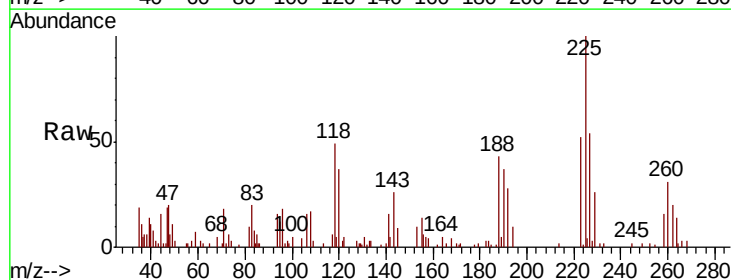


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.103 ppbv
 RT: 23.38 min Scan# 6406
 Delta R.T. 0.01 min
 Lab File: VL036214.D
 Acq: 13 Jan 2021 5:07

Tgt Ion:225 Resp: 14658
 Ion Ratio Lower Upper
 225 100
 223 0.0 50.5 75.7#
 227 141.0 51.7 77.5#



Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V

