

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036524.D
 Acq On : 26 Mar 2021 21:51
 Operator : SY/AP
 Sample : M1760-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 27 03:31:15 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1414058	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3089748	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2714769	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2140012	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

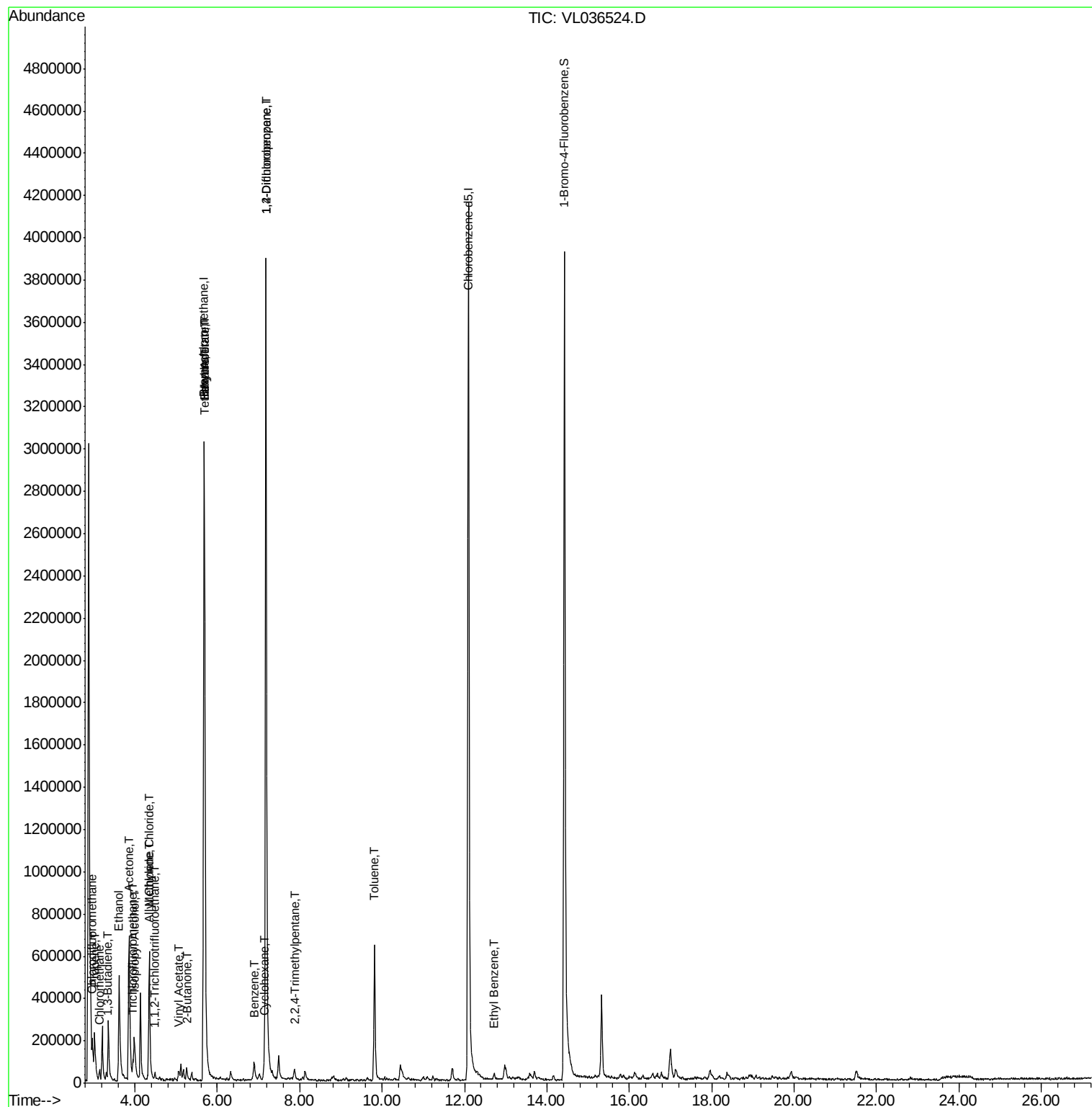
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	206585	0.782	ppbv #	72
4) Chloromethane	3.14	50	46089	0.494	ppbv	94
9) Propene	3.02	41	56626	0.672	ppbv	92
11) Trichlorofluoromethane	3.95	101	49622	0.211	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.49	101	5263	0.035	ppbv #	55
13) Ethanol	3.62	45	625411	62.355	ppbv	98
15) Acetone	3.85	43	947467	6.808	ppbv	97
16) 1,3-Butadiene	3.33	39	3746	0.039	ppbv #	16
19) Isopropyl Alcohol	3.98	45	108749	1.420	ppbv #	79
20) Methylene Chloride	4.35	84	242231	3.717	ppbv	96
21) Allyl Chloride	4.36	41	2405	0.022	ppbv #	60
23) Vinyl Acetate	5.08	43	6723	0.028	ppbv #	77
25) Ethyl Acetate	5.69	43	553792	1.674	ppbv #	80
26) Hexane	5.69	57	704491	4.588	ppbv #	48
30) Cyclohexane	7.13	84	6169	0.050	ppbv #	1
34) 2-Butanone	5.26	43	65024	0.431	ppbv #	80
36) Benzene	6.90	78	52728	0.185	ppbv	95
39) 1,2-Dichloropropane	7.18	63	880454	7.617	ppbv #	23
41) Tetrahydrofuran	5.69	42	310777	4.469	ppbv #	53
44) 2,2,4-Trimethylpentane	7.87	57	14291	0.028	ppbv #	40
53) Toluene	9.82	91	495736	1.634	ppbv	100
58) Ethyl Benzene	12.71	91	11309	0.029	ppbv	92

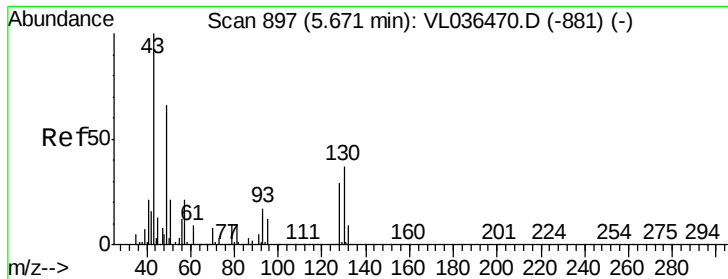
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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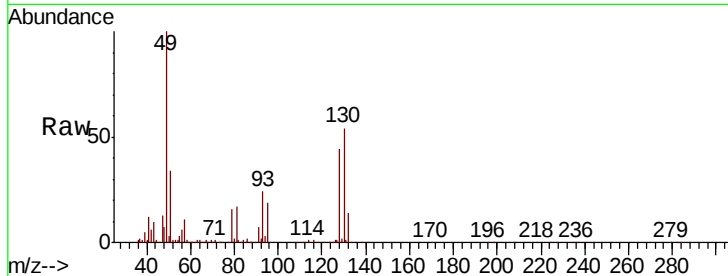


#1

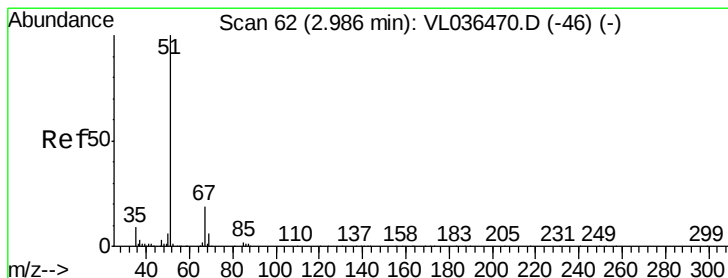
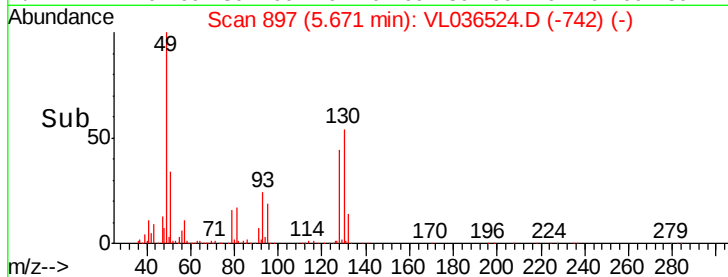
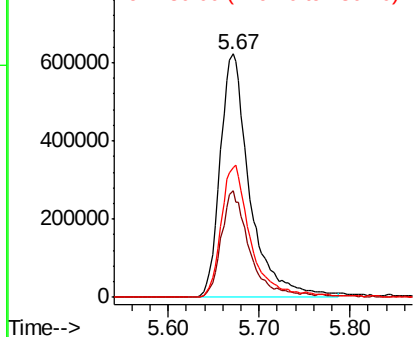
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.00 min
Lab File: VL036524.D
Acq: 26 Mar 2021 21:51

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 49 Resp: 1414058
Ion Ratio Lower Upper
49 100
128 42.9 23.5 70.6
130 54.9 29.1 87.4



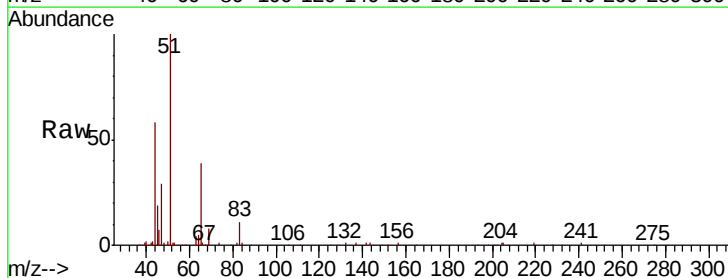
Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



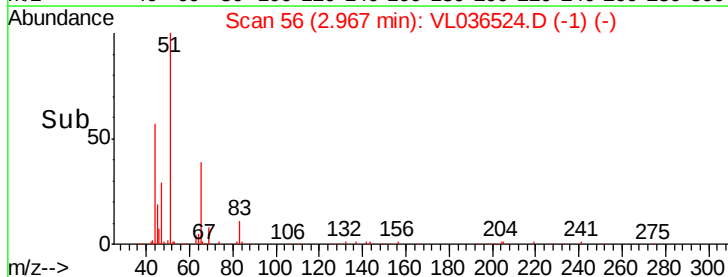
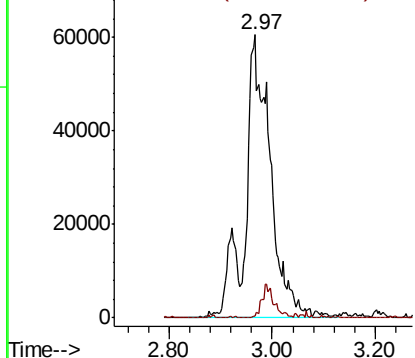
#3

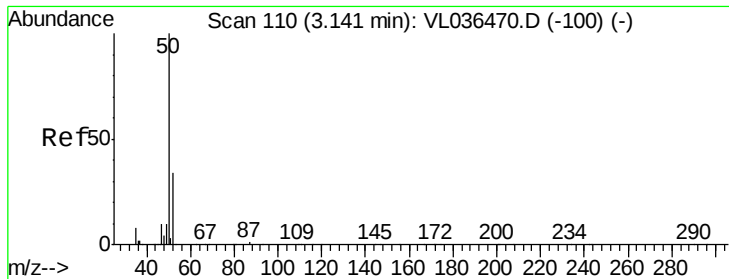
Chlorodifluoromethane
Concen: 0.782 ppbv
RT: 2.97 min Scan# 56
Delta R.T. -0.02 min
Lab File: VL036524.D
Acq: 26 Mar 2021 21:51

Tgt Ion: 51 Resp: 206585
Ion Ratio Lower Upper
51 100
67 6.1 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.494 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL036524.D

Acq: 26 Mar 2021 21:51

Instrument :

MSVOA_L

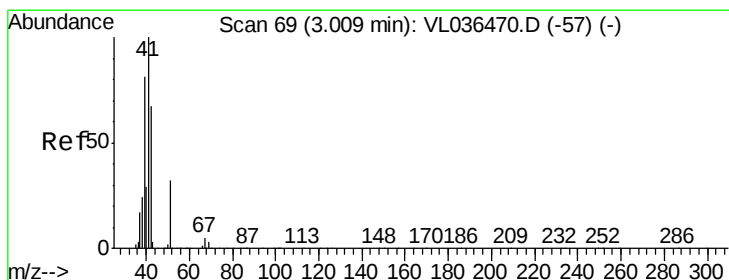
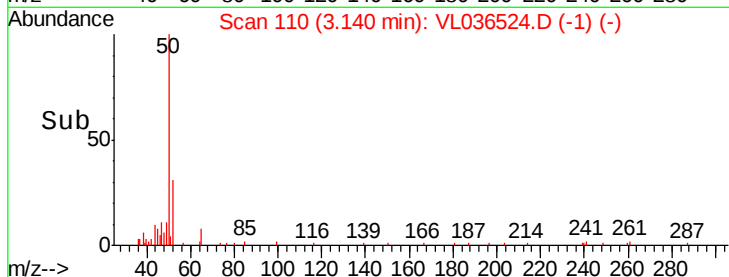
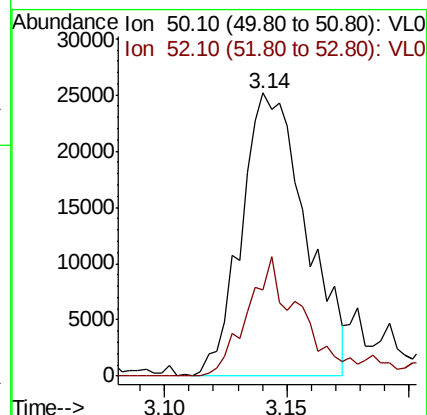
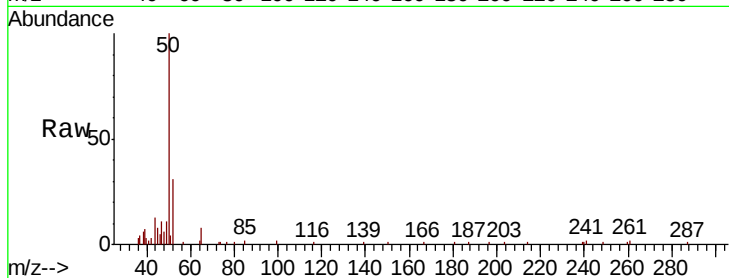
ClientSampleId :

Tot Ion: 50 Resp: 46089

Ion Ratio Lower Upper

50 100

52 30.6 27.0 40.6



#9

Propene

Concen: 0.672 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL036524.D

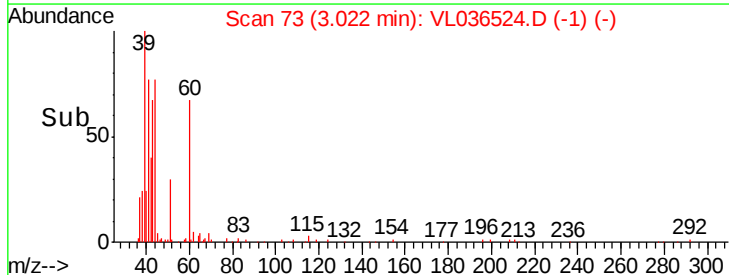
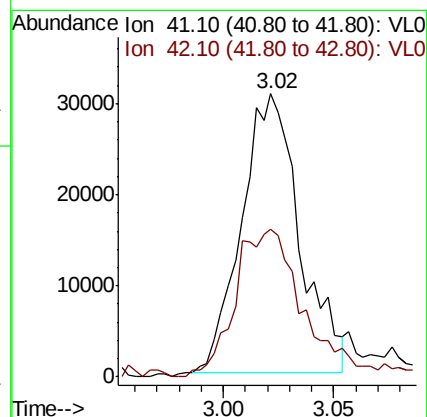
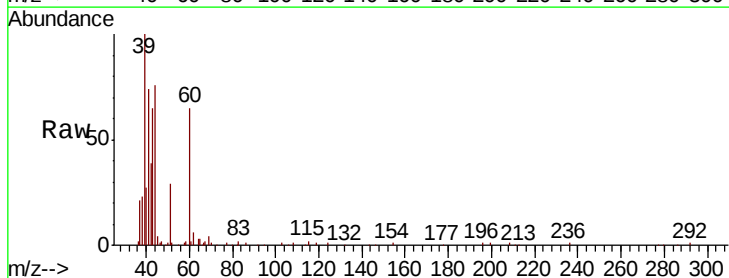
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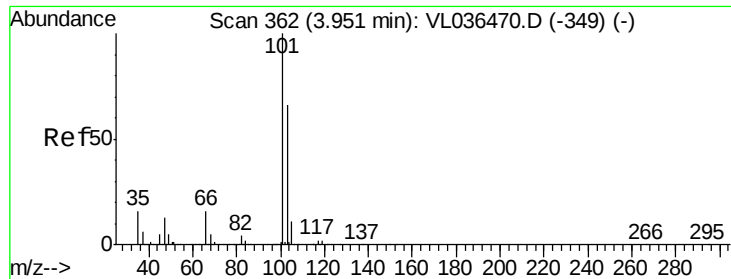
Tgt Ion: 41 Resp: 56626

Ion Ratio Lower Upper

41 100

42 64.9 57.0 85.4

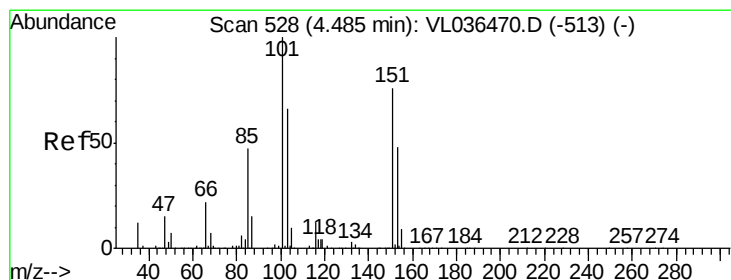
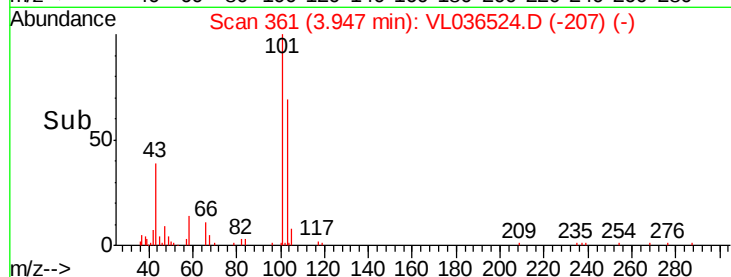
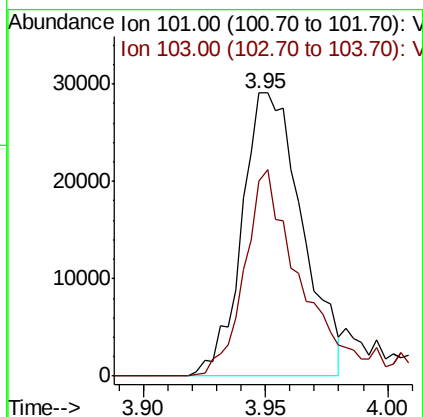
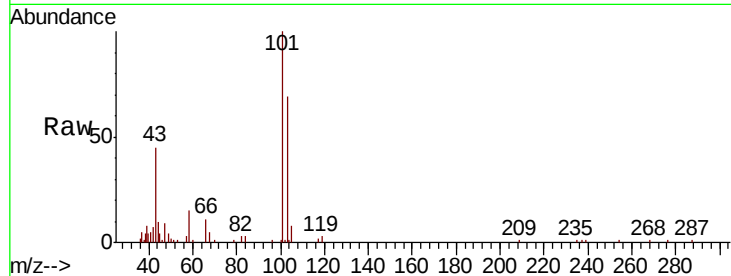




#11
 Trichlorofluoromethane
 Concen: 0.211 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. -0.00 min
 Lab File: VL036524.D
 Acq: 26 Mar 2021 21:51

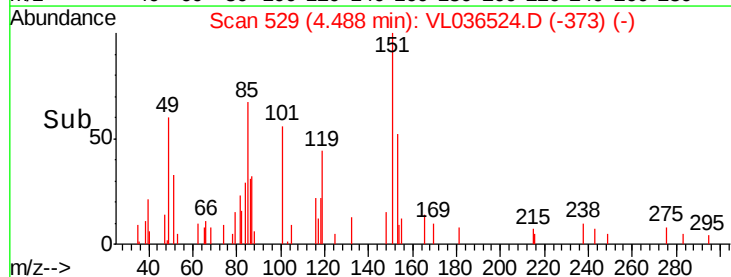
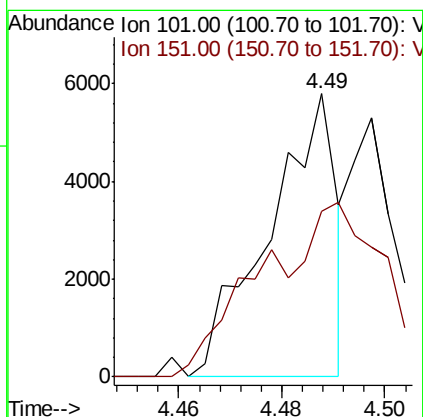
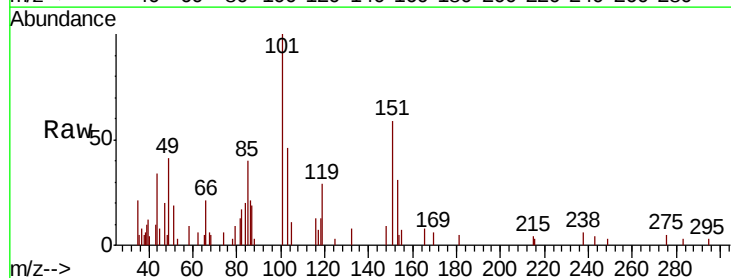
Instrument :
 MSVOA_L
 ClientSampleId :

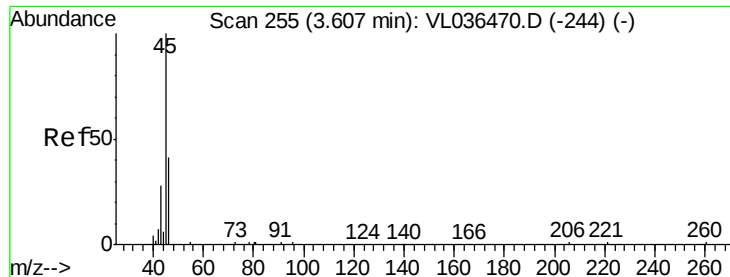
Tot Ion:101 Resp: 49622
 Ion Ratio Lower Upper
 101 100
 103 68.8 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.035 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. 0.00 min
 Lab File: VL036524.D
 Acq: 26 Mar 2021 21:51

Tgt Ion:101 Resp: 5263
 Ion Ratio Lower Upper
 101 100
 151 114.6 60.9 91.3#





#13

Ethanol

Concen: 62.355 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.01 min

Lab File: VL036524.D

Acq: 26 Mar 2021 21:51

Instrument :

MSVOA_L

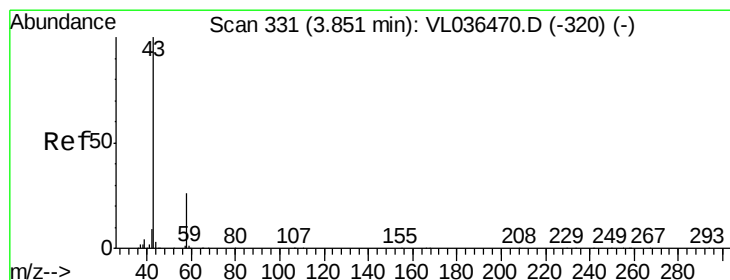
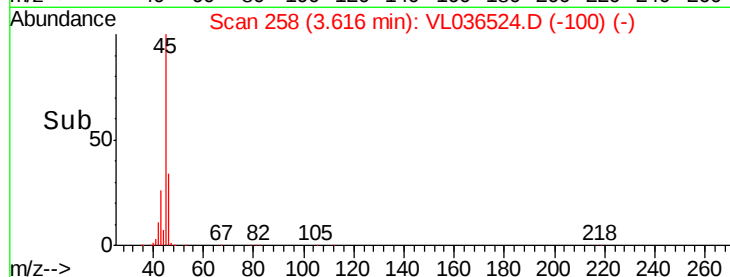
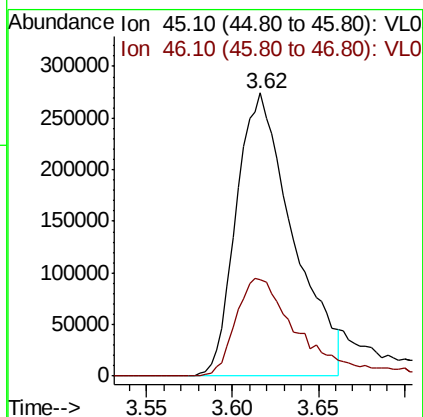
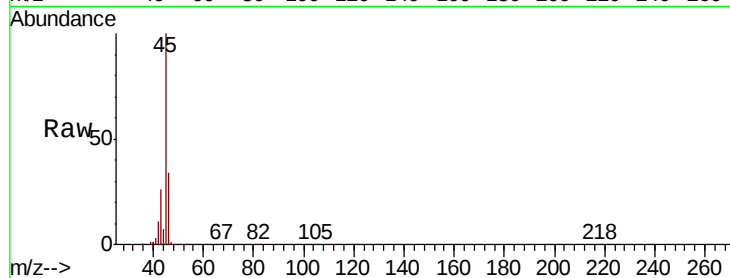
ClientSampleId :

Tot Ion: 45 Resp: 625411

Ion Ratio Lower Upper

45 100

46 40.3 16.6 66.2



#15

Acetone

Concen: 6.808 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL036524.D

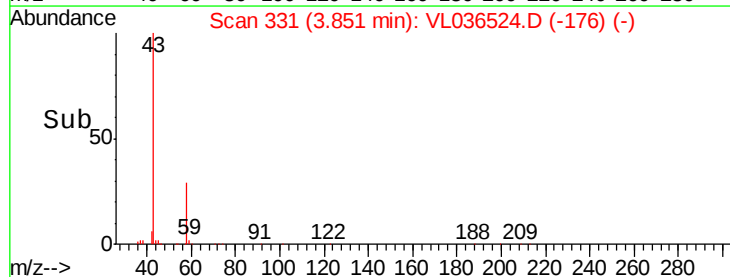
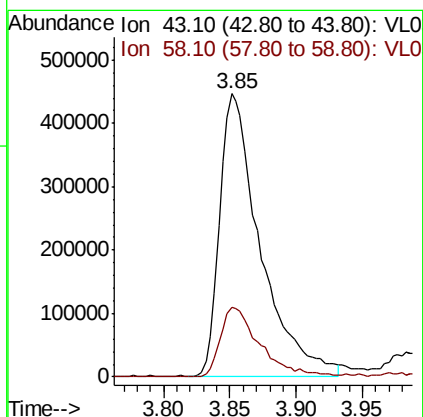
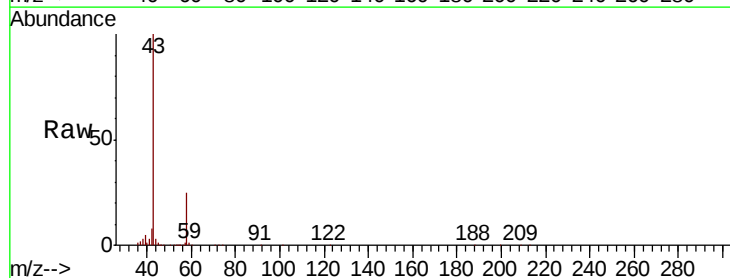
Acq: 26 Mar 2021 21:51

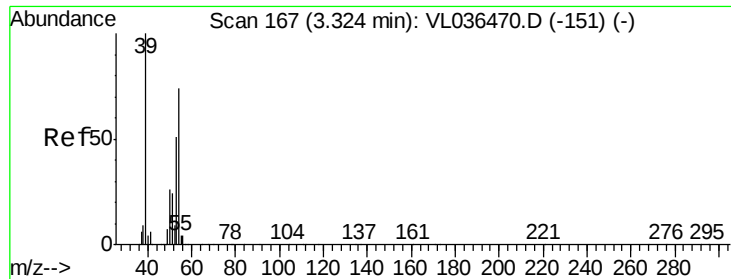
Tgt Ion: 43 Resp: 947467

Ion Ratio Lower Upper

43 100

58 24.7 21.2 31.8

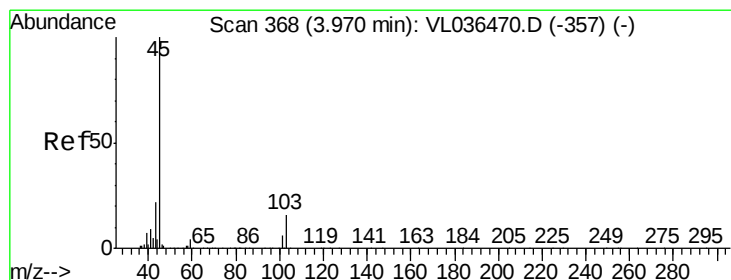
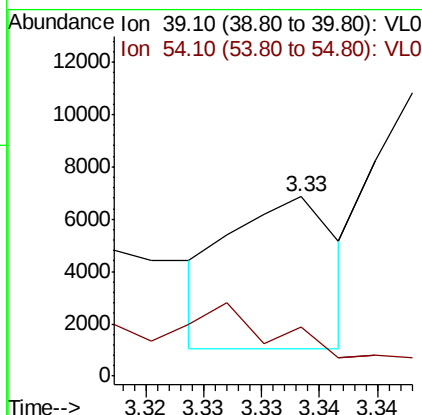
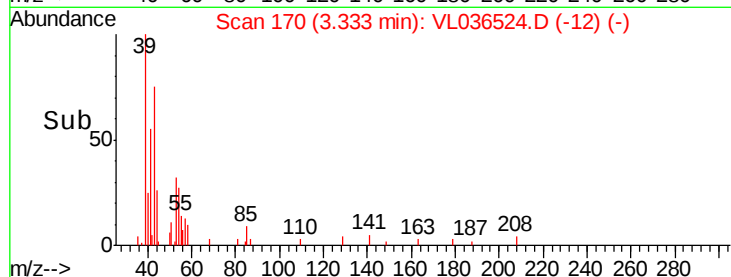
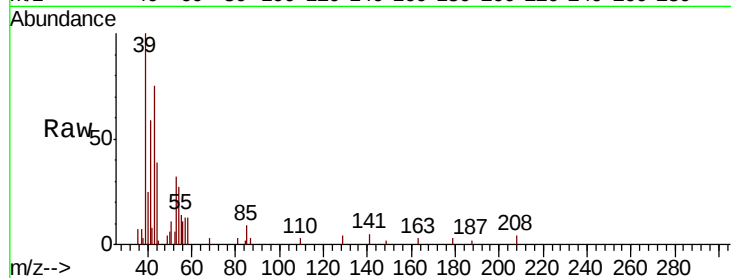




#16
 1,3-Butadiene
 Concen: 0.039 ppbv
 RT: 3.33 min Scan# 170
 Delta R.T. 0.01 min
 Lab File: VL036524.D
 Acq: 26 Mar 2021 21:51

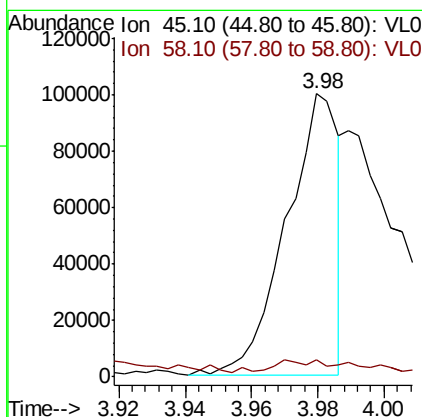
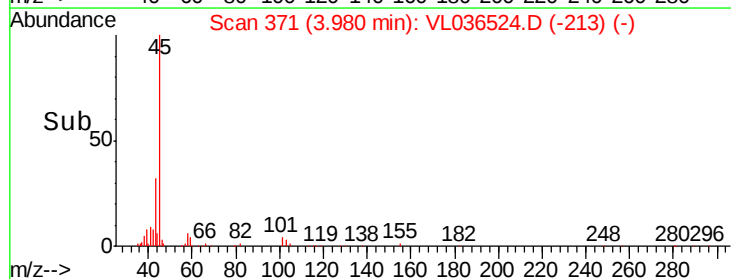
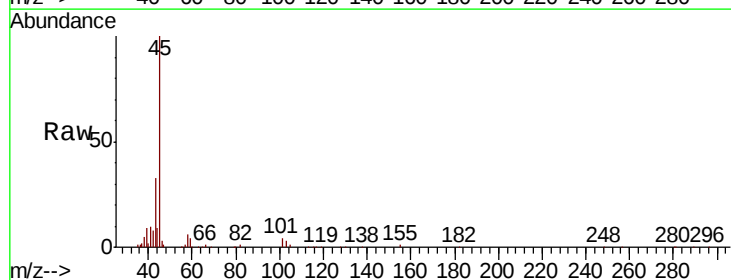
Instrument :
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 ClientSampleId :

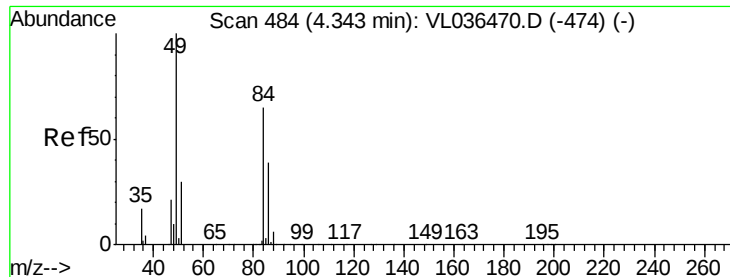
Tot Ion: 39 Resp: 3746
 Ion Ratio Lower Upper
 39 100
 54 144.2 58.8 88.2#



#19
 Isopropyl Alcohol
 Concen: 1.420 ppbv
 RT: 3.98 min Scan# 371
 Delta R.T. 0.01 min
 Lab File: VL036524.D
 Acq: 26 Mar 2021 21:51

Tgt Ion: 45 Resp: 108749
 Ion Ratio Lower Upper
 45 100
 58 10.4 2.9 4.3#

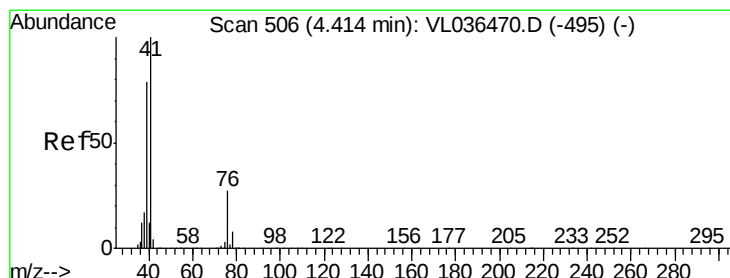
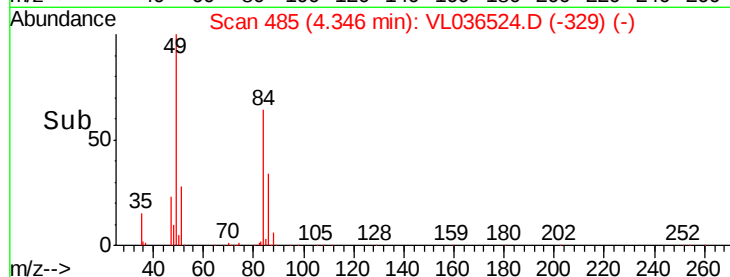
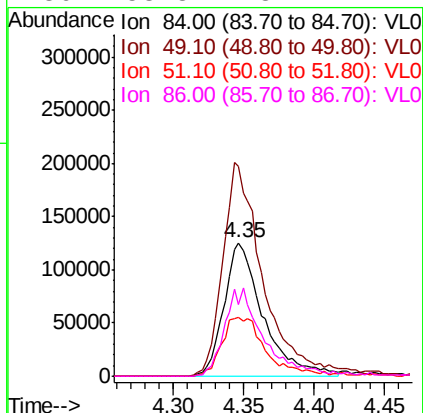
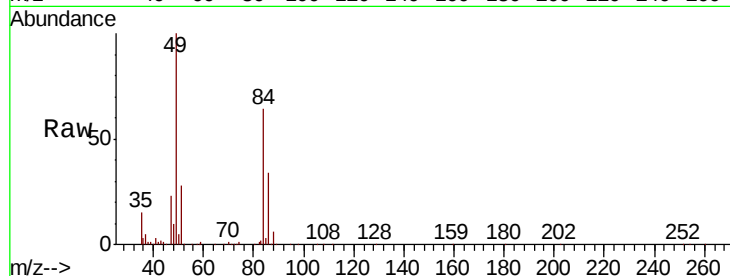




#20
Methylene Chloride
Concen: 3.717 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.00 min
Lab File: VL036524.D
Acq: 26 Mar 2021 21:51

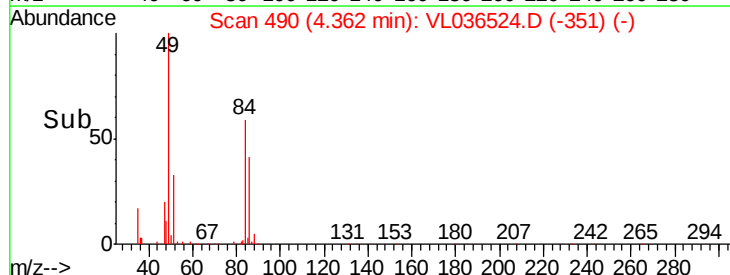
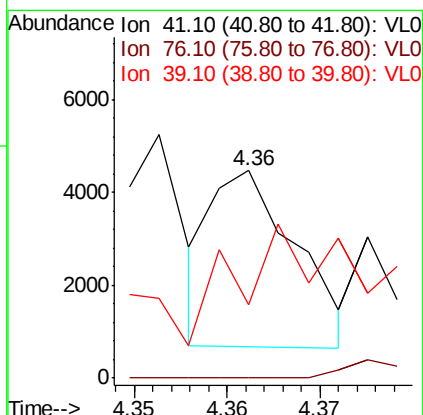
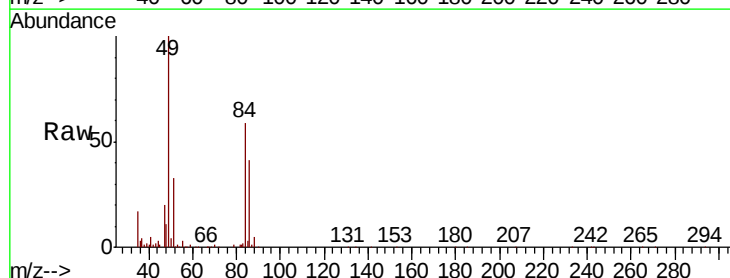
Instrument :
MSVOA_L
ClientSampled :

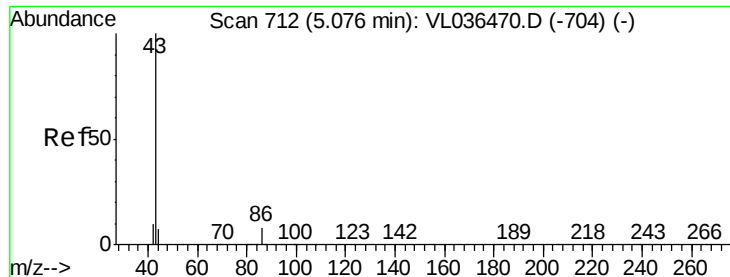
Tot Ion:	84	Resp:	242231
Ion	Ratio	Lower	Upper
84	100		
49	156.8	122.9	184.3
51	43.7	36.9	55.3
86	53.8	48.2	72.4



#21
Allyl Chloride
Concen: 0.022 ppbv
RT: 4.36 min Scan# 490
Delta R.T. -0.05 min
Lab File: VL036524.D
Acq: 26 Mar 2021 21:51

Tgt Ion:	41	Resp:	2405
Ion	Ratio	Lower	Upper
41	100		
76	6.7	22.9	34.3#
39	119.4	67.3	100.9#

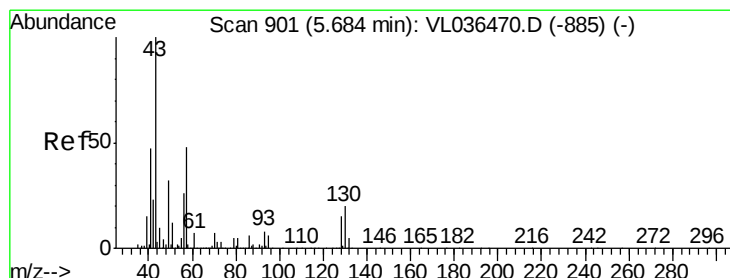
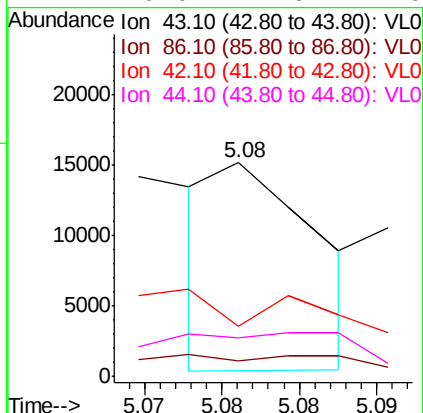
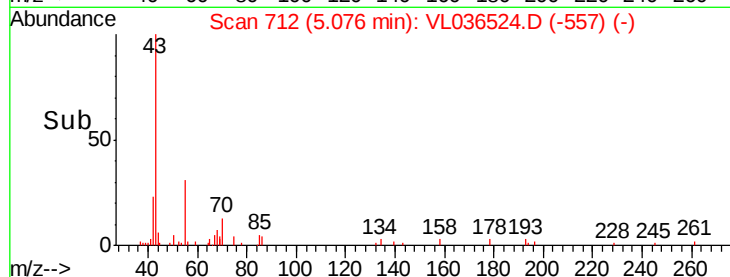
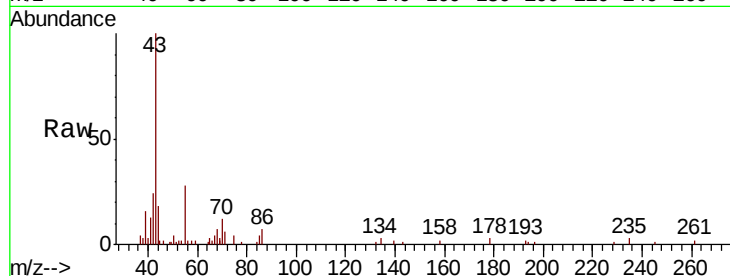




#23
 Vinyl Acetate
 Concen: 0.028 ppbv
 RT: 5.08 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VL036524.D
 Acq: 26 Mar 2021 21:51

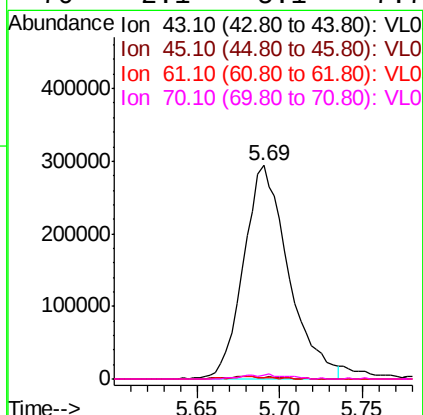
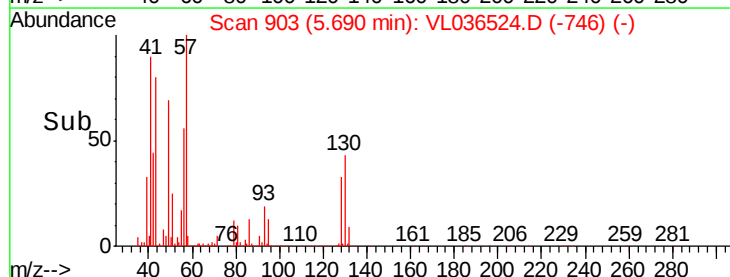
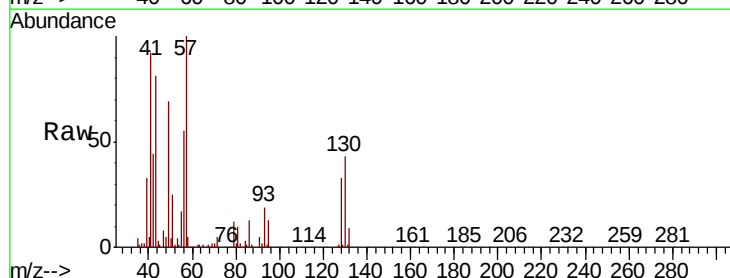
Instrument :
 MSVOA_L
 ClientSampleId :

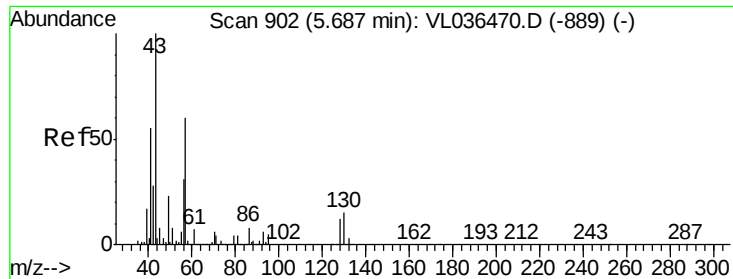
Tot Ion:	43	Resp:	6723
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.4	8.0#
42	0.0	8.5	12.7#
44	0.0	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 1.674 ppbv
 RT: 5.69 min Scan# 903
 Delta R.T. 0.01 min
 Lab File: VL036524.D
 Acq: 26 Mar 2021 21:51

Tgt Ion:	43	Resp:	553792
Ion	Ratio	Lower	Upper
43	100		
45	1.8	7.9	11.9#
61	1.1	7.4	11.2#
70	2.1	5.1	7.7#

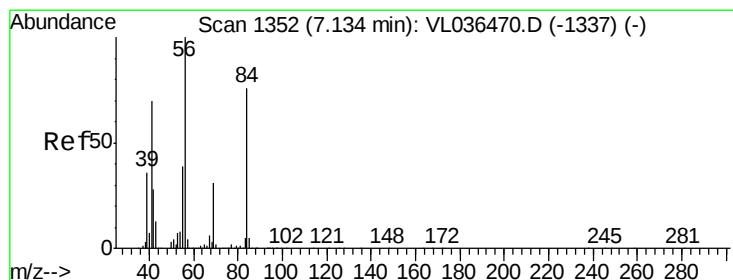
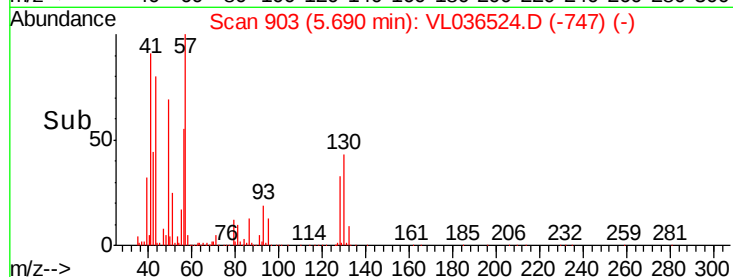
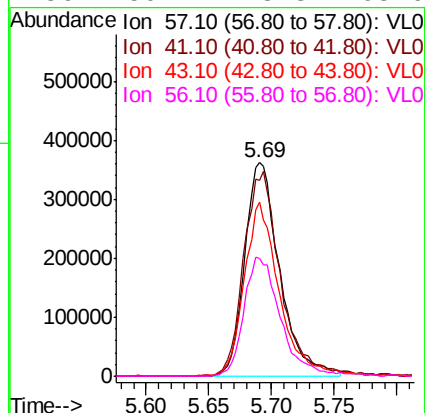
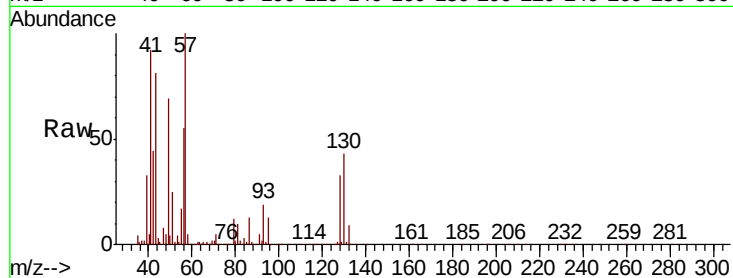




#26
Hexane
Concen: 4.588 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.00 min
Lab File: VL036524.D
Acq: 26 Mar 2021 21:51

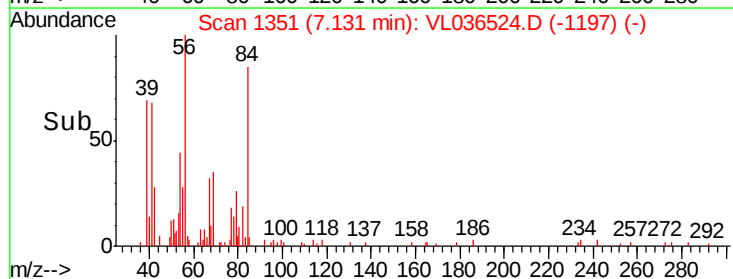
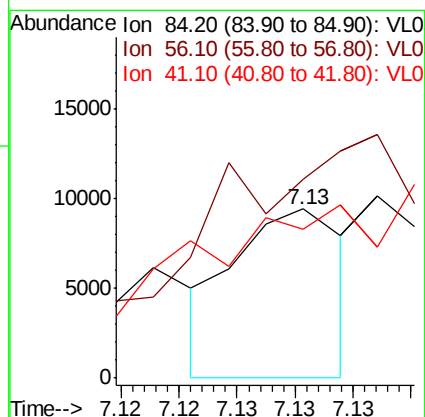
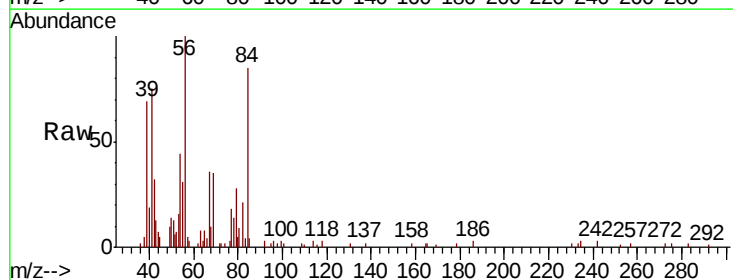
Instrument :
MSVOA_L
ClientSampleId :

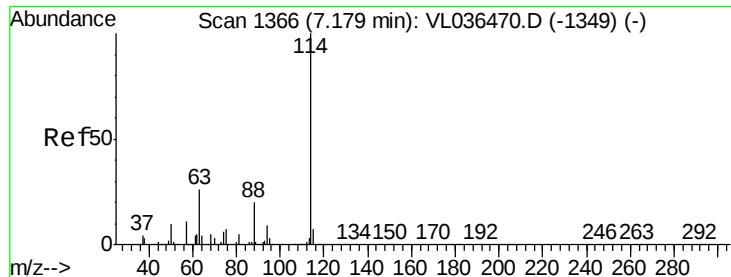
Tot Ion: 57 Resp: 704491
Ion Ratio Lower Upper
57 100
41 102.2 77.2 115.8
43 81.8 173.8 260.6#
56 59.1 43.8 65.6



#30
Cyclohexane
Concen: 0.050 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.00 min
Lab File: VL036524.D
Acq: 26 Mar 2021 21:51

Tgt Ion: 84 Resp: 6169
Ion Ratio Lower Upper
84 100
56 0.0 114.6 171.8#
41 0.0 75.3 112.9#



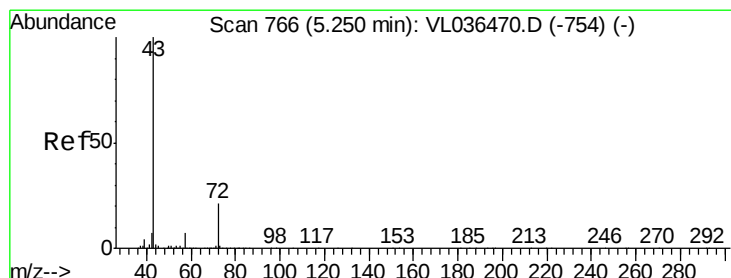
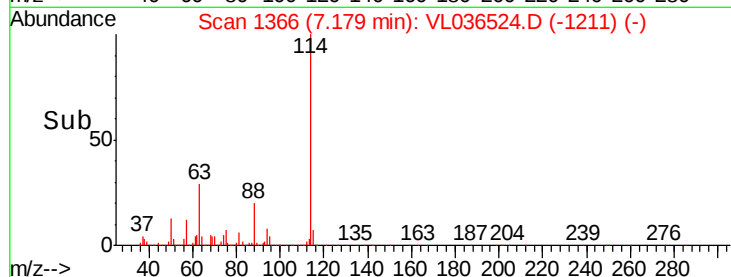
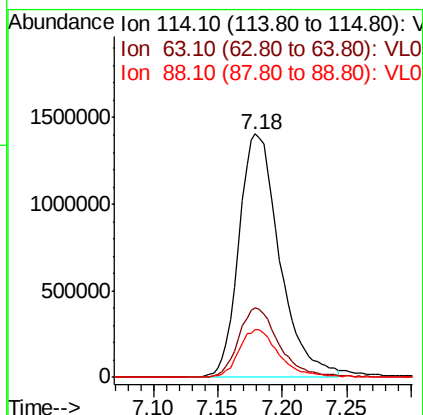
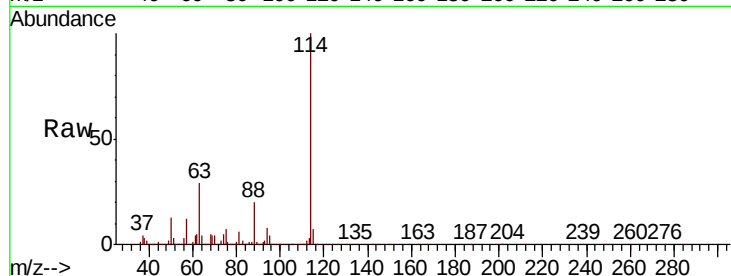


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.00 min
 Lab File: VL036524.D
 Acq: 26 Mar 2021 21:51

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3089748

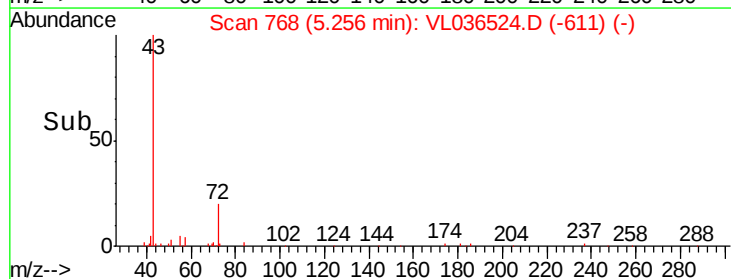
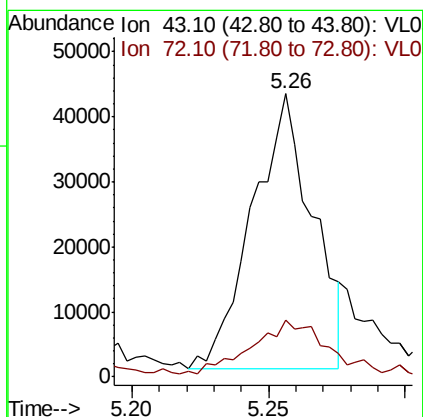
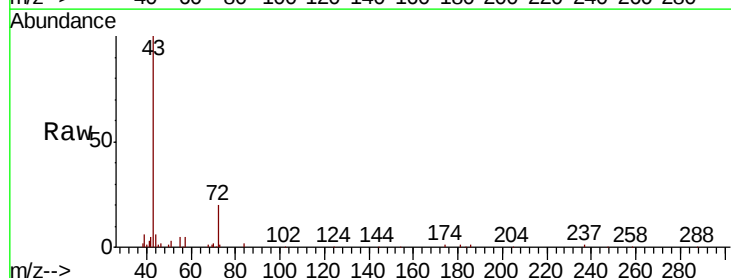
Ion	Ratio	Lower	Upper
114	100		
63	29.1	22.4	33.6
88	19.6	15.4	23.0

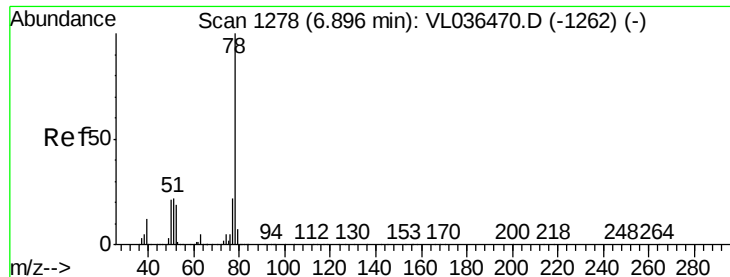


#34
 2-Butanone
 Concen: 0.431 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.01 min
 Lab File: VL036524.D
 Acq: 26 Mar 2021 21:51

Tgt Ion: 43 Resp: 65024

Ion	Ratio	Lower	Upper
43	100		
72	30.7	17.0	25.6

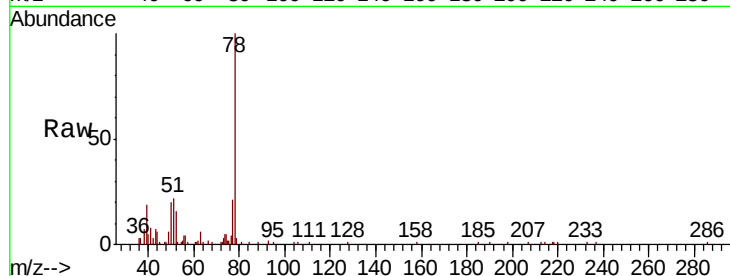




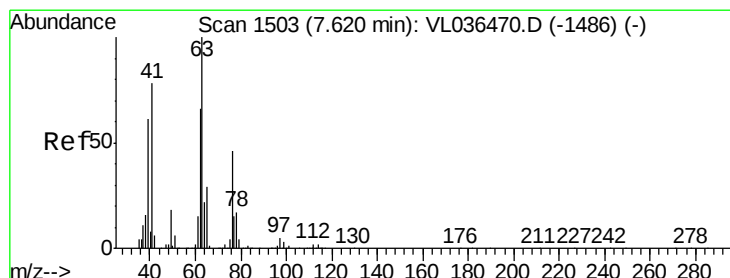
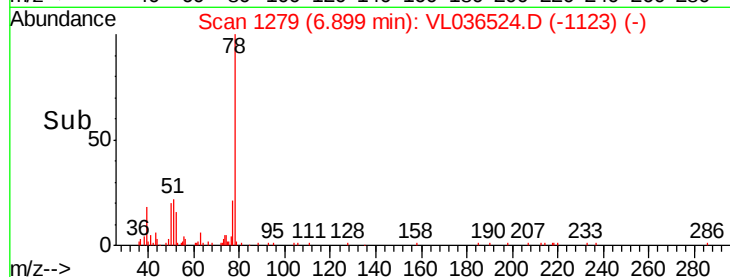
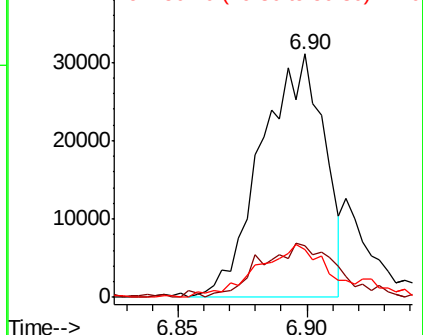
#36
Benzene
Concen: 0.185 ppbv
RT: 6.90 min Scan# 1279
Delta R.T. 0.00 min
Lab File: VL036524.D
Acq: 26 Mar 2021 21:51

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
78	100		
77	18.5	18.0	27.0
50	19.7	16.5	24.7

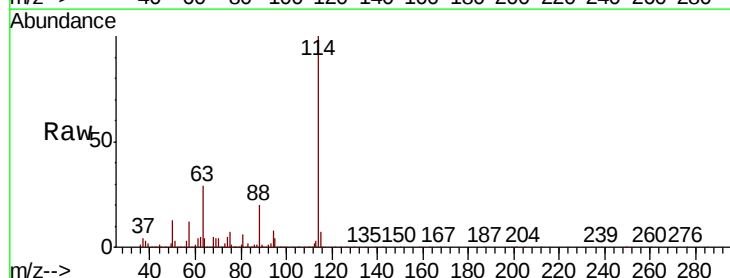


Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

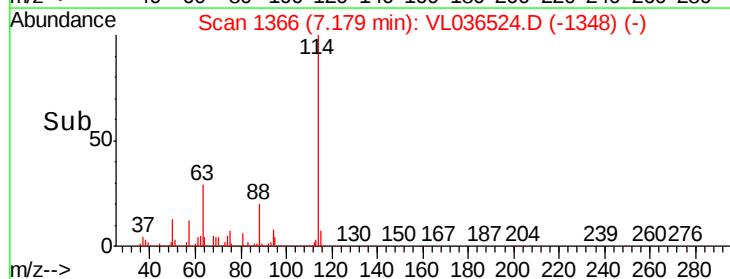
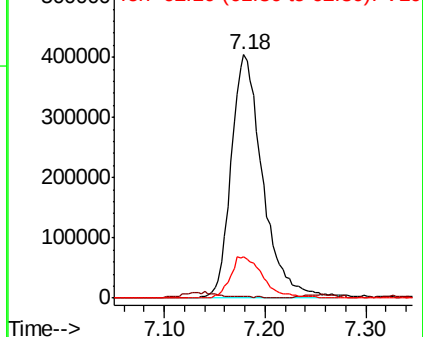


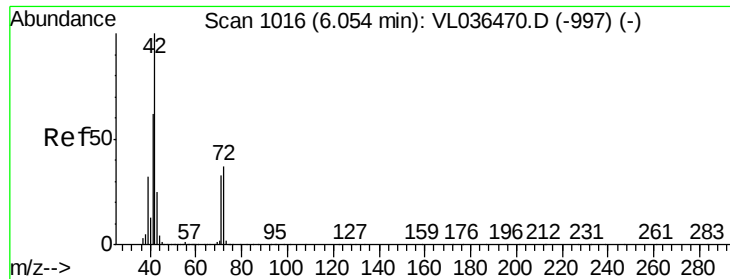
#39
1,2-Dichloropropane
Concen: 7.617 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.44 min
Lab File: VL036524.D
Acq: 26 Mar 2021 21:51

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.4	93.6#
62	17.0	52.8	79.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0

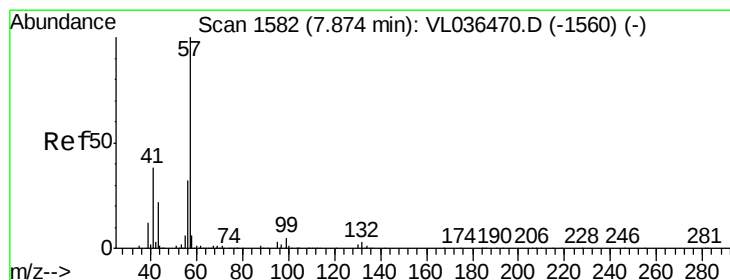
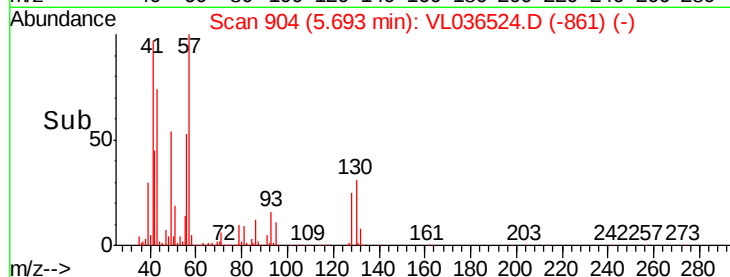
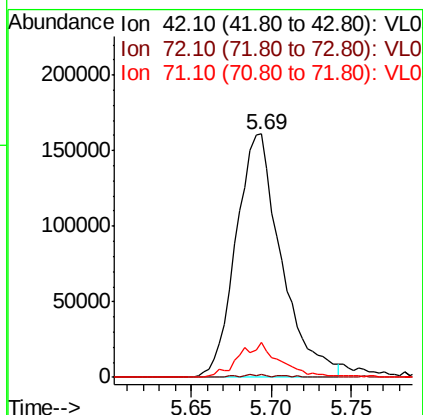
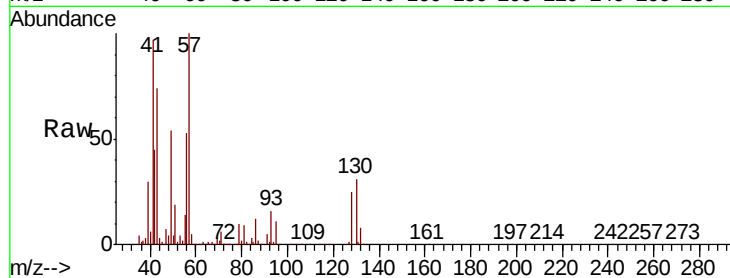




#41
Tetrahydrofuran
Concen: 4.469 ppbv
RT: 5.69 min Scan# 904
Delta R.T. -0.36 min
Lab File: VL036524.D
Acq: 26 Mar 2021 21:51

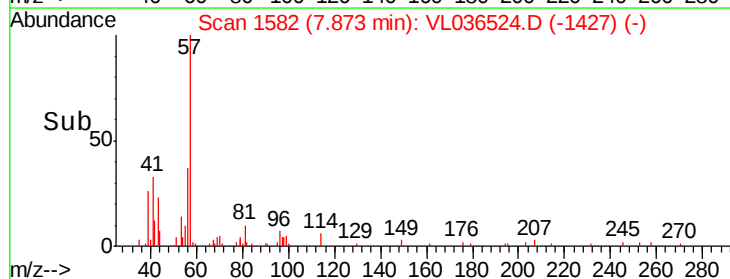
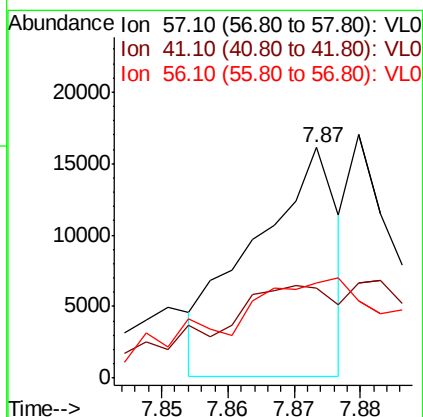
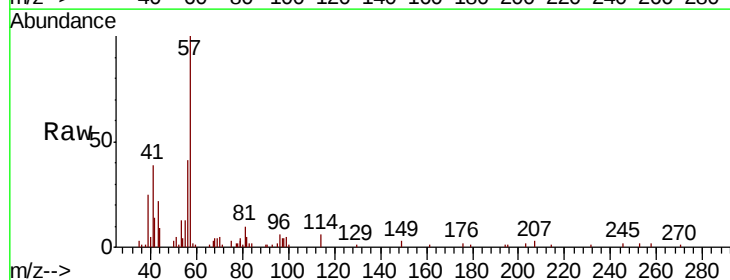
Instrument :
MSVOA_L
ClientSampleId :

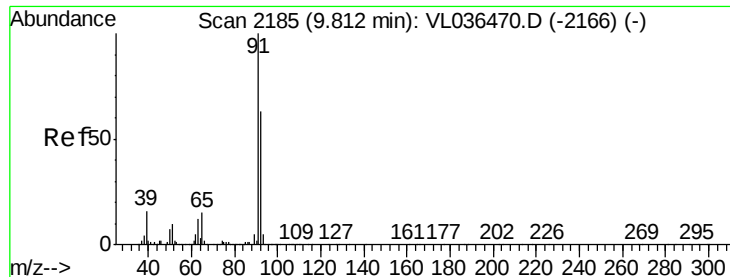
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.9	27.6	41.4#
71	13.5	27.0	40.4#



#44
2,2,4-Trimethylpentane
Concen: 0.028 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. -0.00 min
Lab File: VL036524.D
Acq: 26 Mar 2021 21:51

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.8	43.2#
56	0.0	26.1	39.1#





#53

Toluene

Concen: 1.634 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL036524.D

Acq: 26 Mar 2021 21:51

Instrument :

MSVOA_L

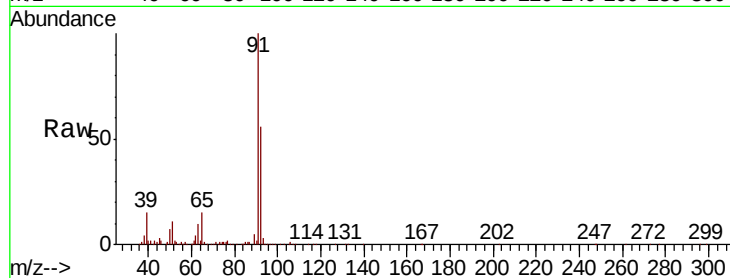
ClientSampleId :

Tot Ion: 91 Resp: 495736

Ion Ratio Lower Upper

91 100

92 61.0 48.8 73.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

250000

200000

150000

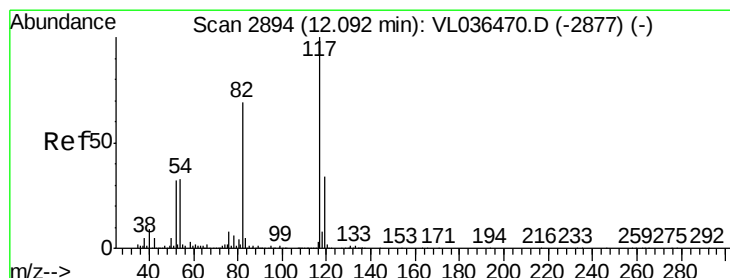
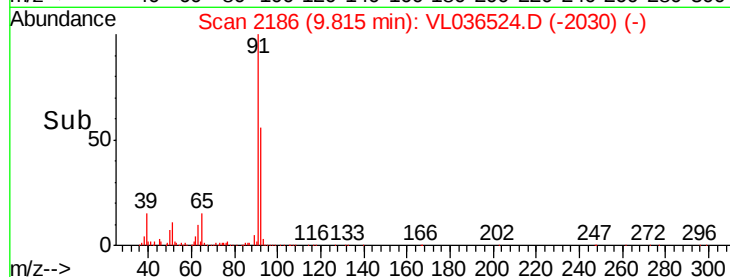
100000

50000

0

9.75 9.80 9.85 9.90

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VL036524.D

Acq: 26 Mar 2021 21:51

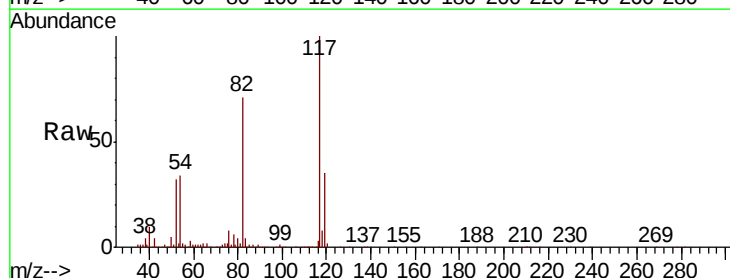
Tgt Ion: 117 Resp: 2714769

Ion Ratio Lower Upper

117 100

82 71.6 57.4 86.0

119 33.6 47.4 71.0#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

1500000

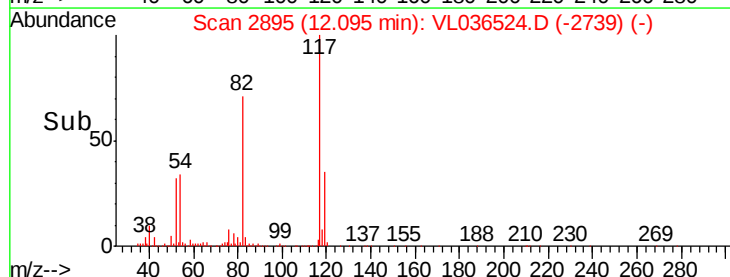
1000000

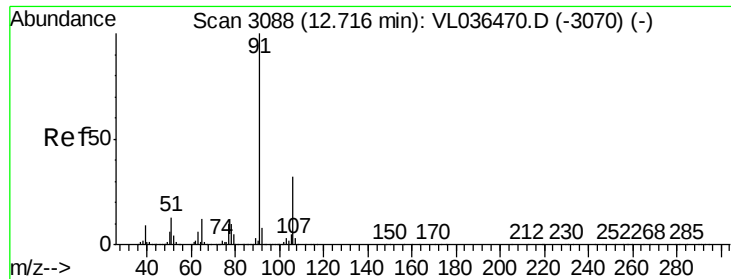
500000

0

12.00 12.10 12.20

Time-->





#58

Ethyl Benzene

Concen: 0.029 ppbv

RT: 12.71 min Scan# 3087

Delta R.T. -0.00 min

Lab File: VL036524.D

Acq: 26 Mar 2021 21:51

Instrument :

MSVOA_L

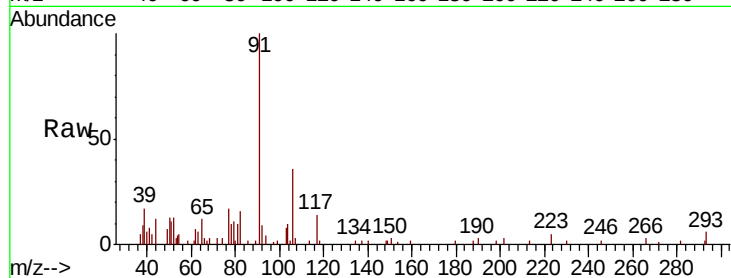
ClientSampleId :

Tot Ion: 91 Resp: 11309

Ion Ratio Lower Upper

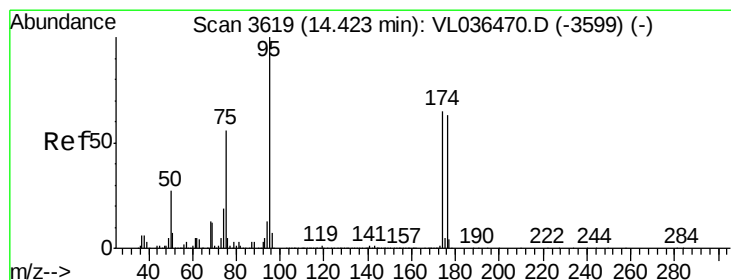
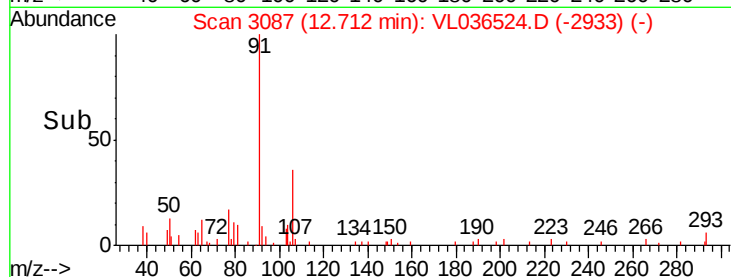
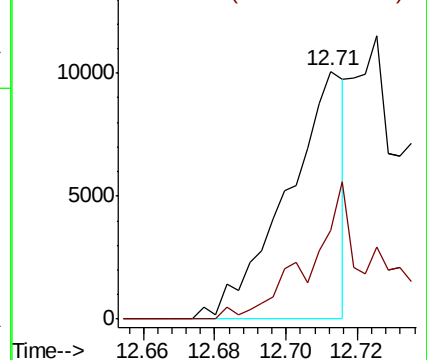
91 100

106 35.9 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.891 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL036524.D

Acq: 26 Mar 2021 21:51

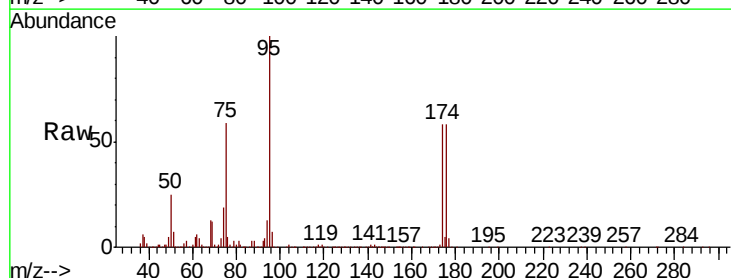
Tgt Ion: 95 Resp: 2140012

Ion Ratio Lower Upper

95 100

174 64.8 51.0 76.6

175 4.6 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

