

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035045.D
 Acq On : 19 May 2020 15:40
 Operator : SY/AP
 Sample : L2683-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 20 04:44:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

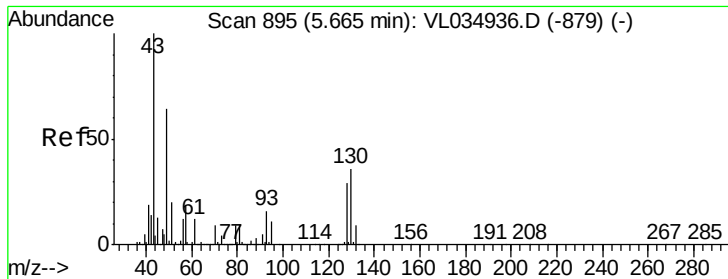
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1119461	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2524709	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2359200	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2020751	10.58	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.94	51	75755	0.593	ppbv #	83
4) Chloromethane	3.09	50	37087	0.506	ppbv	97
9) Propene	2.97	41	39405	0.710	ppbv #	79
11) Trichlorofluoromethane	3.91	101	40122	0.245	ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.45	101	3515	0.030	ppbv #	14
13) Ethanol	3.56	45	239133	13.067	ppbv	97
15) Acetone	3.81	43	861717	5.822	ppbv	99
16) 1,3-Butadiene	3.26	39	2601	0.041	ppbv #	41
19) Isopropyl Alcohol	3.94	45	44624	0.452	ppbv #	94
20) Methylene Chloride	4.31	84	101984	2.082	ppbv #	94
23) Vinyl Acetate	5.03	43	20792	0.111	ppbv #	79
25) Ethyl Acetate	5.66	43	102996	0.414	ppbv #	80
26) Hexane	5.66	57	138303	1.283	ppbv #	40
31) cis-1,2-Dichloroethene	5.52	61	4204	0.040	ppbv #	65
34) 2-Butanone	5.23	43	37051	0.236	ppbv	98
36) Benzene	6.87	78	13461	0.065	ppbv #	89
39) 1,2-Dichloropropane	7.16	63	711004	8.521	ppbv #	25
52) Tetrachloroethene	11.23	164	136411	1.843	ppbv	95
53) Toluene	9.81	91	358503	1.625	ppbv	95

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.02 min

Lab File: VL035045.D

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MSVOA_L
ClientSampleId :

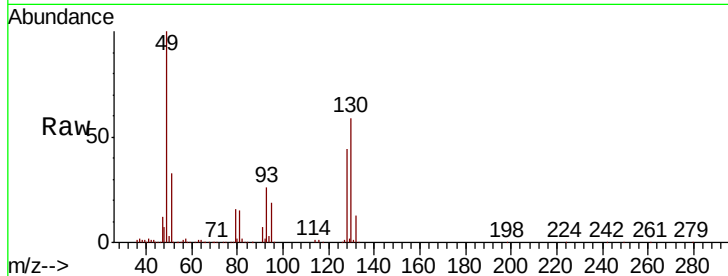
Tot Ion: 49 Resp: 1119461

Ion Ratio Lower Upper

49 100

128 44.7 22.1 66.5

130 58.3 29.1 87.3



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

800000

600000

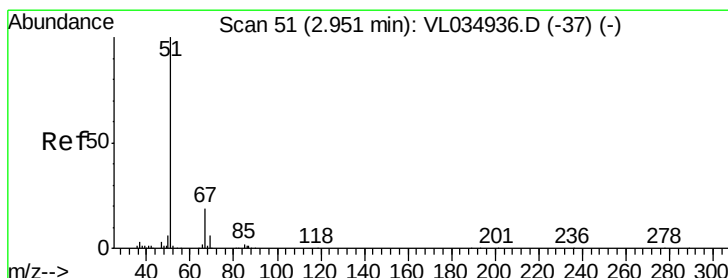
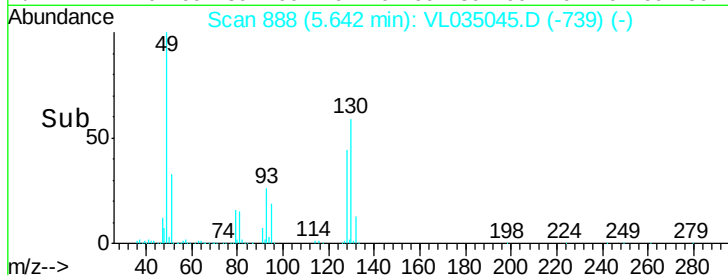
400000

200000

0

5.55 5.60 5.65 5.70 5.75

Time-->



#3

Chlorodifluoromethane

Concen: 0.593 ppbv

RT: 2.94 min Scan# 47

Delta R.T. -0.01 min

Lab File: VL035045.D

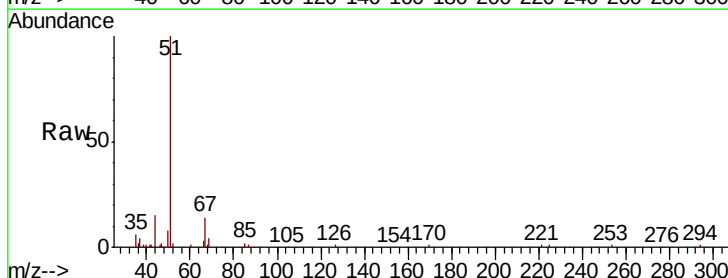
Acq: 19 May 2020 15:40

Tgt Ion: 51 Resp: 75755

Ion Ratio Lower Upper

51 100

67 11.2 15.0 22.6#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

50000

40000

30000

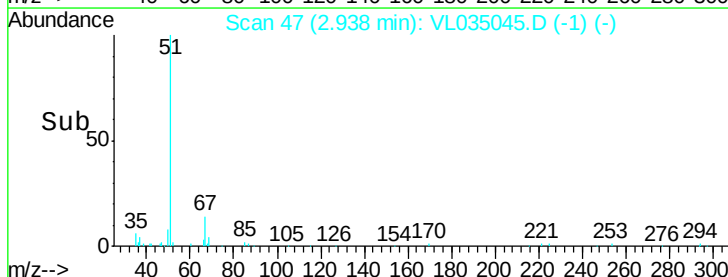
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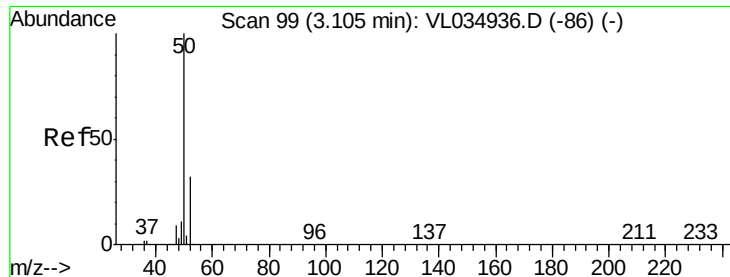
10000

0

2.80 2.90 3.00

Time-->





#4

Chloromethane

Concen: 0.506 ppbv

RT: 3.09 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL035045.D

Acq: 19 May 2020 15:40

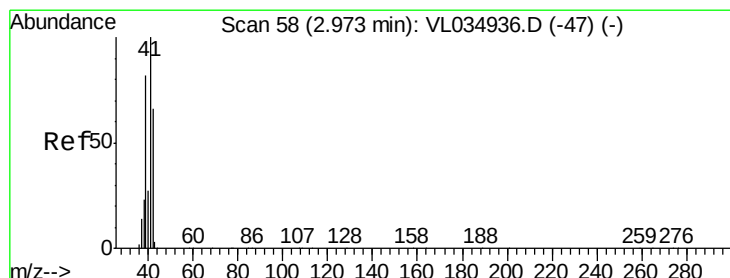
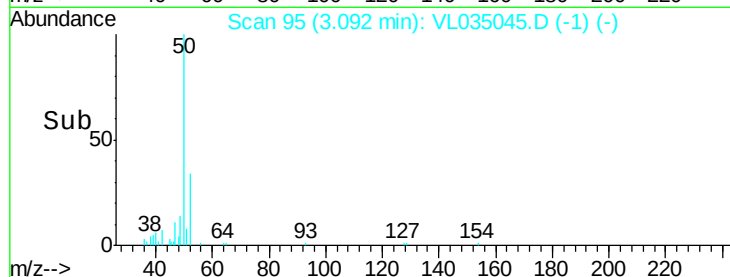
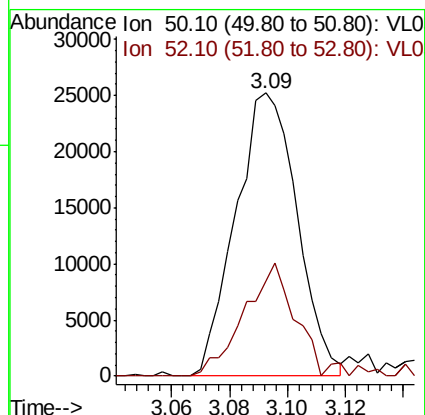
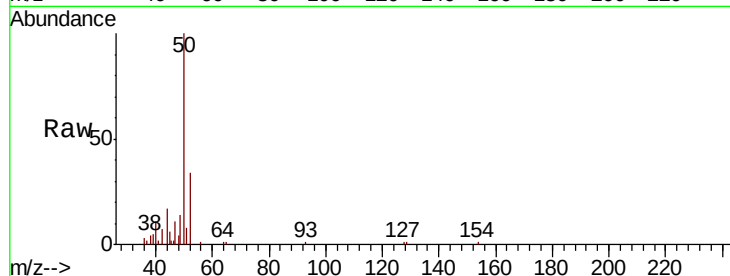
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 50 Resp: 37087

Ion Ratio Lower Upper

50 100

52 33.6 25.4 38.2



#9

Propene

Concen: 0.710 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL035045.D

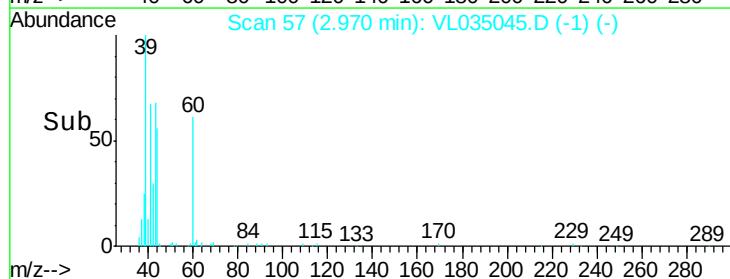
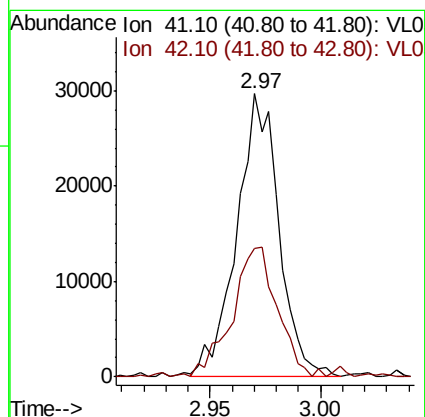
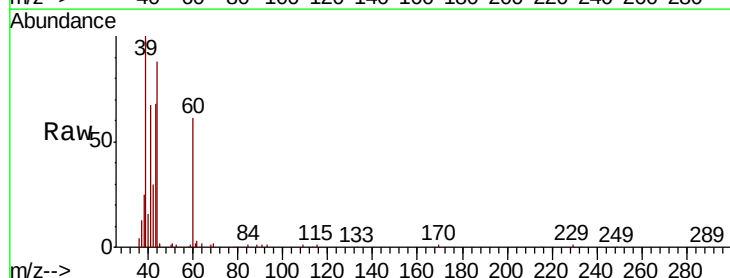
Acq: 19 May 2020 15:40

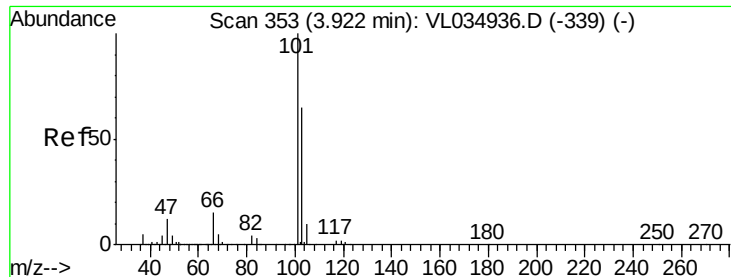
Tgt Ion: 41 Resp: 39405

Ion Ratio Lower Upper

41 100

42 51.4 54.5 81.7#

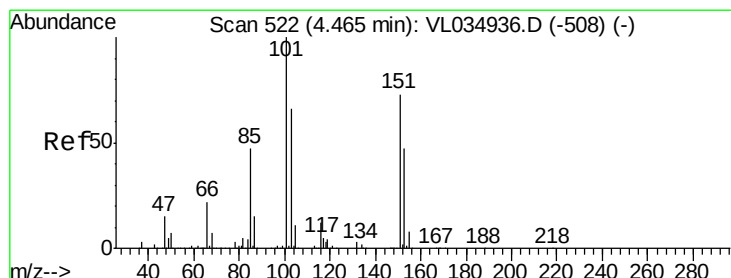
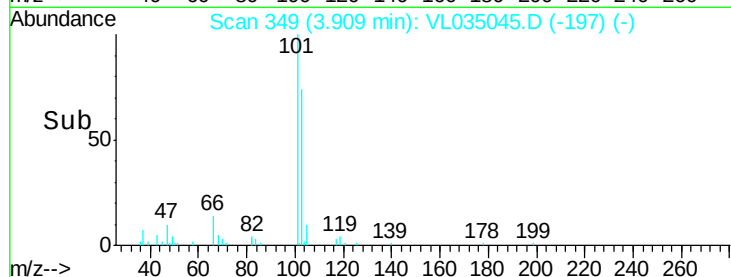
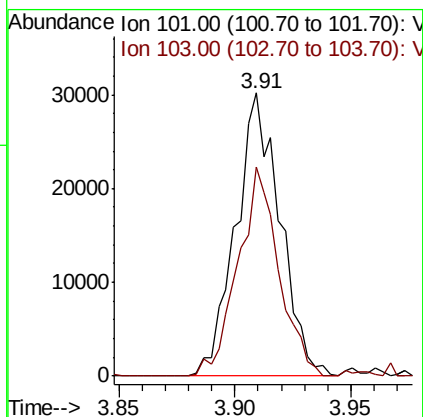
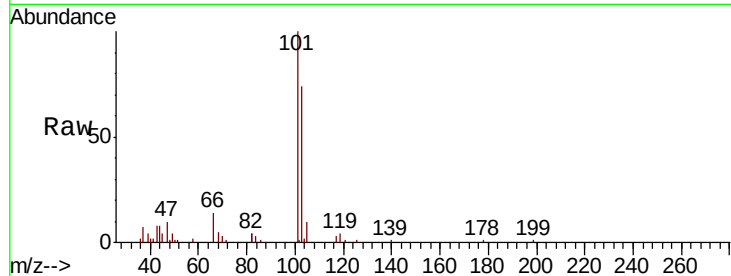




#11
 Trichlorofluoromethane
 Concen: 0.245 ppbv
 RT: 3.91 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VL035045.D
 Acq: 19 May 2020 15:40

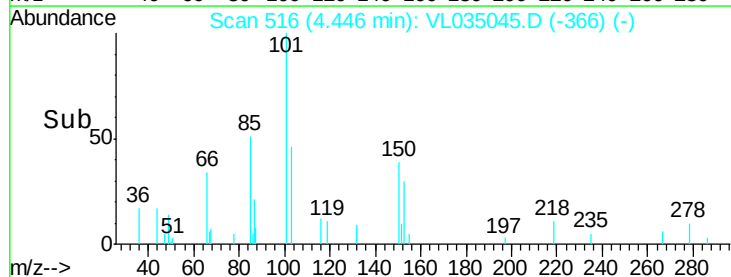
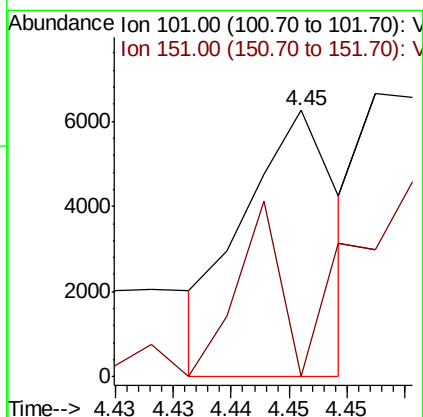
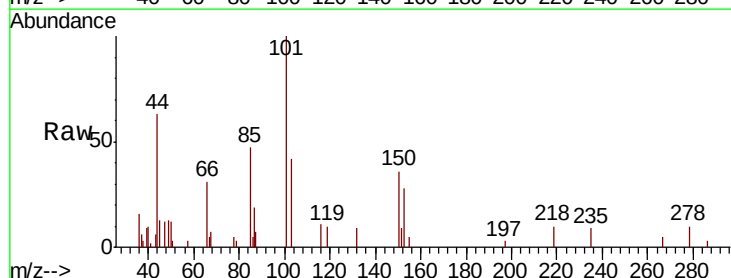
Instrument :
 MSVOA_L
 ClientSampleId :

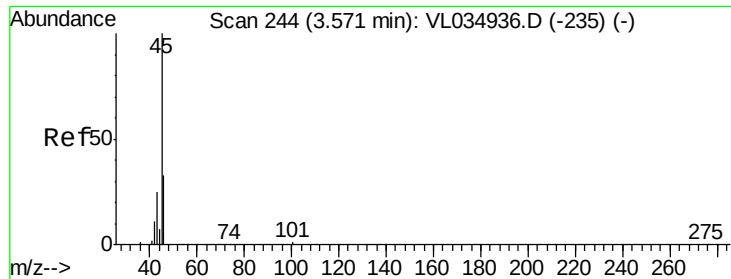
Tot Ion:101 Resp: 40122
 Ion Ratio Lower Upper
 101 100
 103 73.9 51.9 77.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.030 ppbv
 RT: 4.45 min Scan# 516
 Delta R.T. -0.02 min
 Lab File: VL035045.D
 Acq: 19 May 2020 15:40

Tgt Ion:101 Resp: 3515
 Ion Ratio Lower Upper
 101 100
 151 0.0 57.6 86.4#

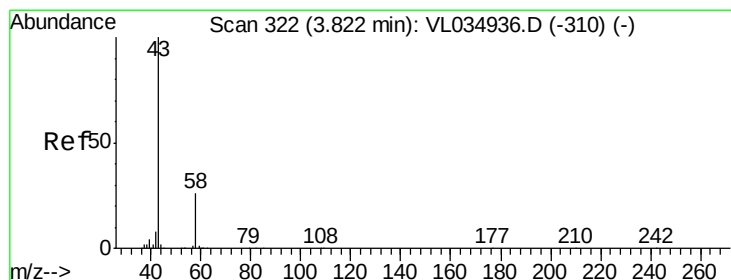
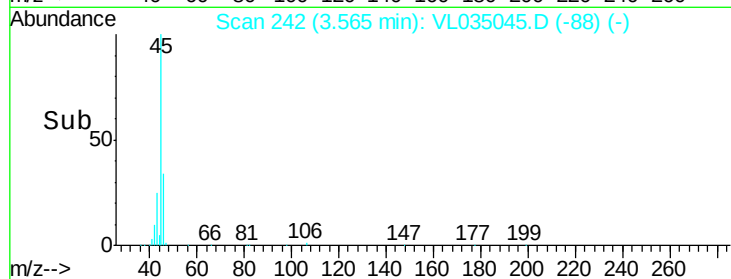
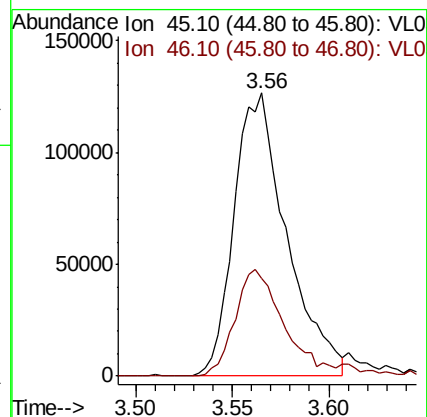
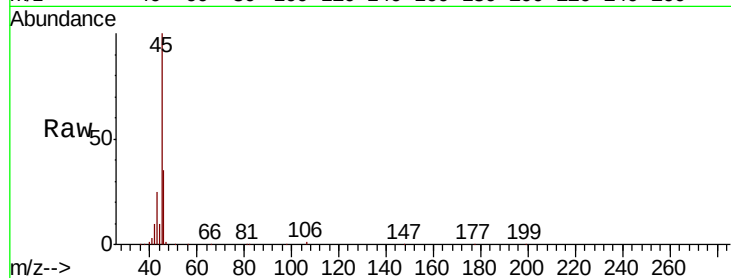




#13
Ethanol
Concen: 13.067 ppbv
RT: 3.56 min Scan# 242
Delta R.T. -0.01 min
Lab File: VL035045.D
Acq: 19 May 2020 15:40

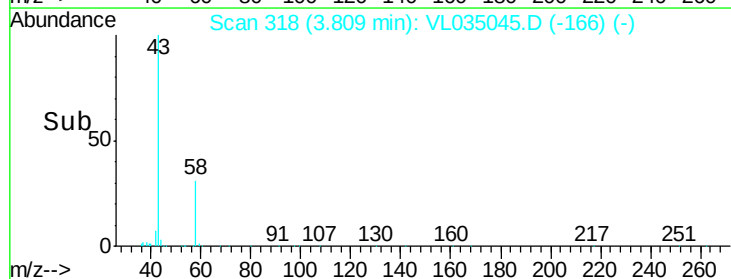
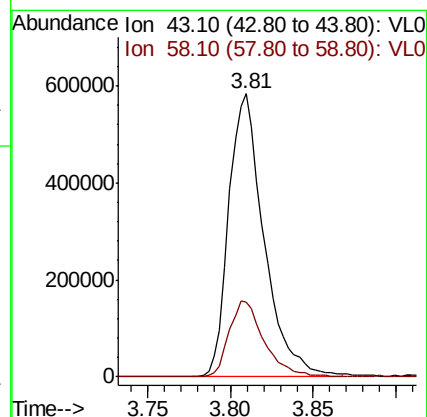
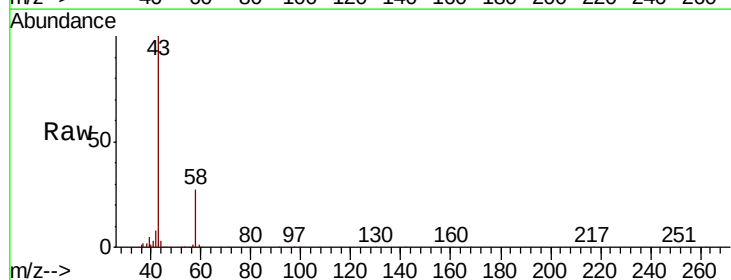
Instrument :
MSVOA_L
ClientSampled :

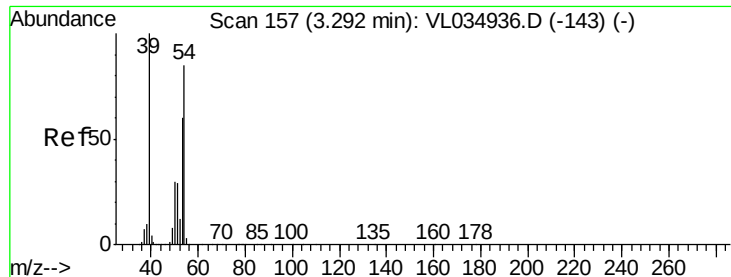
Tot Ion: 45 Resp: 239133
Ion Ratio Lower Upper
45 100
46 37.5 14.3 57.3



#15
Acetone
Concen: 5.822 ppbv
RT: 3.81 min Scan# 318
Delta R.T. -0.01 min
Lab File: VL035045.D
Acq: 19 May 2020 15:40

Tgt Ion: 43 Resp: 861717
Ion Ratio Lower Upper
43 100
58 26.7 21.7 32.5

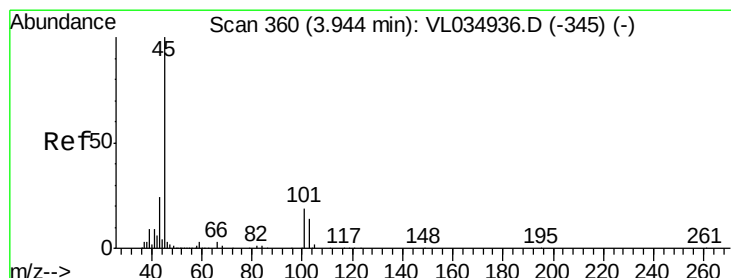
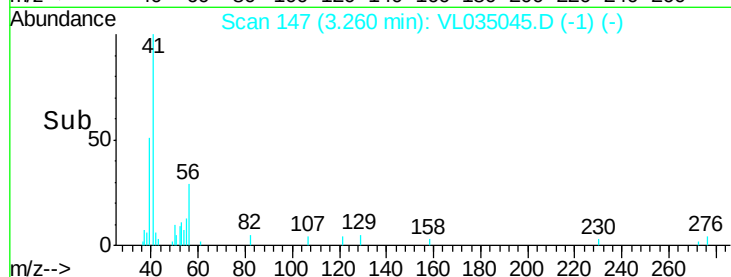
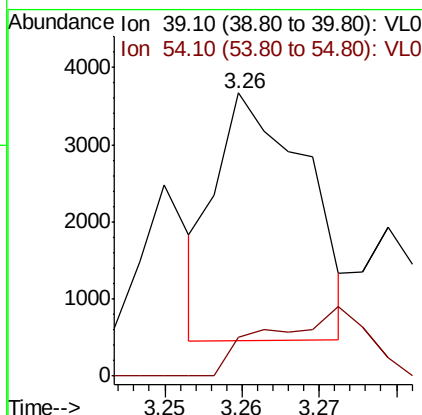
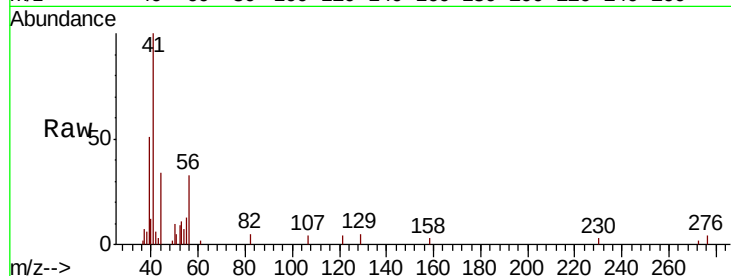




#16
 1,3-Butadiene
 Concen: 0.041 ppbv
 RT: 3.26 min Scan# 147
 Delta R.T. -0.03 min
 Lab File: VL035045.D
 Acq: 19 May 2020 15:40

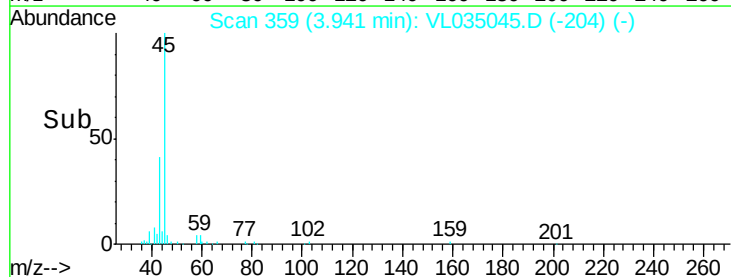
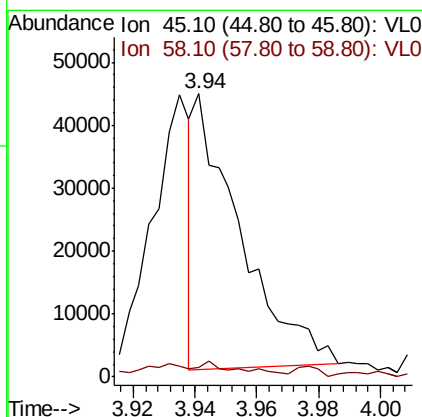
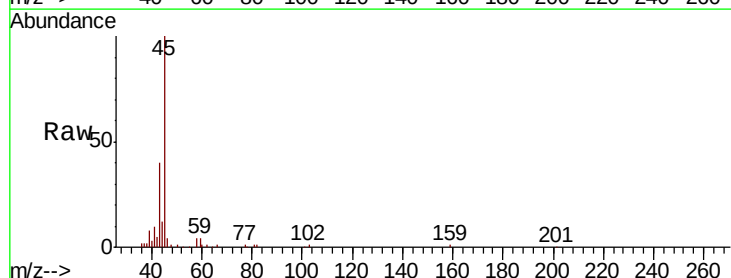
Instrument :
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 ClientSampleId :

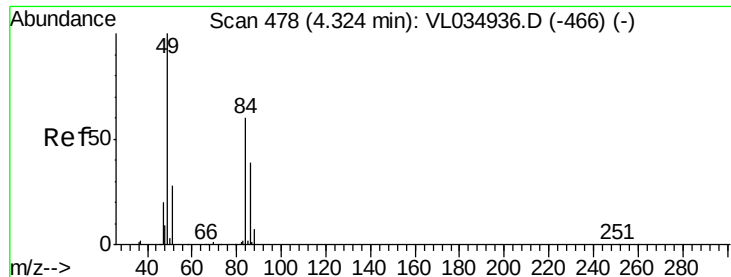
Tot Ion: 39 Resp: 2601
 Ion Ratio Lower Upper
 39 100
 54 30.1 66.6 100.0#



#19
 Isopropyl Alcohol
 Concen: 0.452 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. -0.00 min
 Lab File: VL035045.D
 Acq: 19 May 2020 15:40

Tgt Ion: 45 Resp: 44624
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.7 2.5#

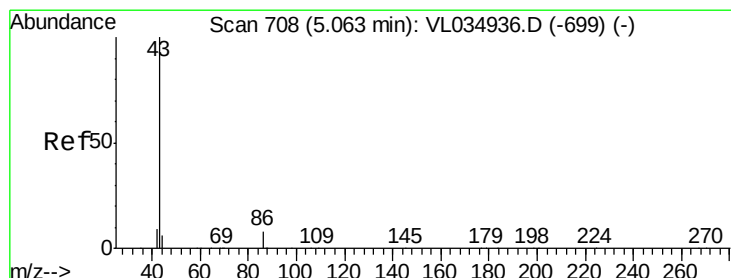
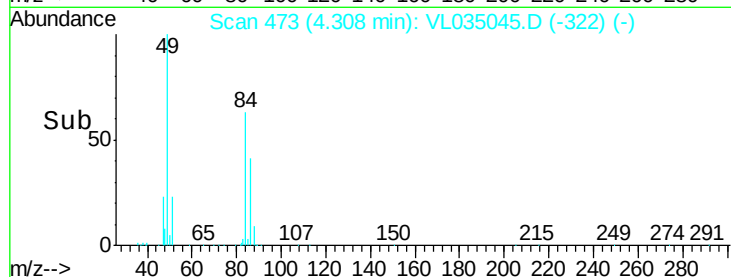
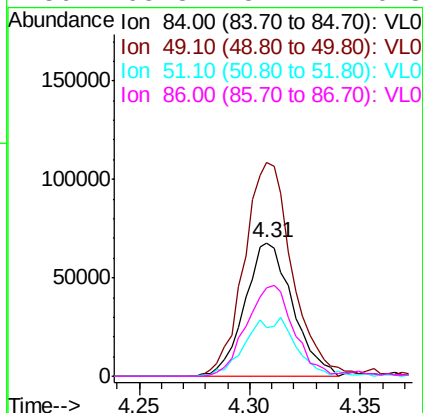
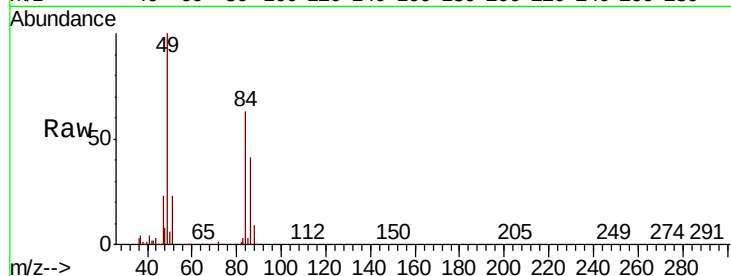




#20
Methylene Chloride
Concen: 2.082 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.02 min
Lab File: VL035045.D
Acq: 19 May 2020 15:40

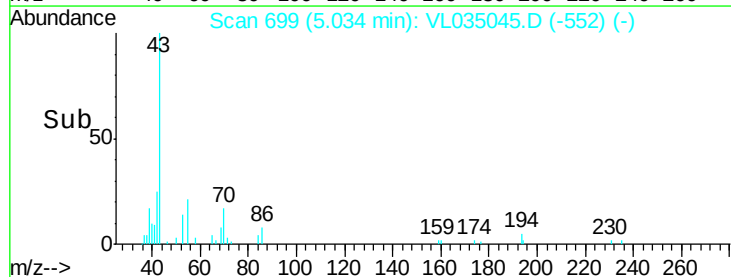
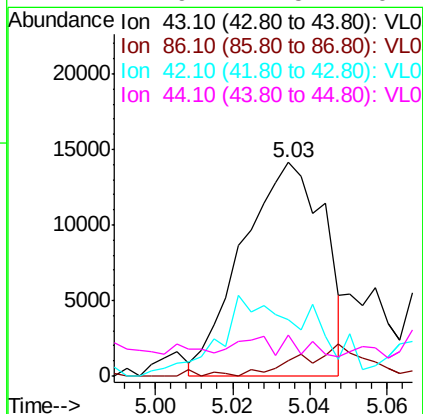
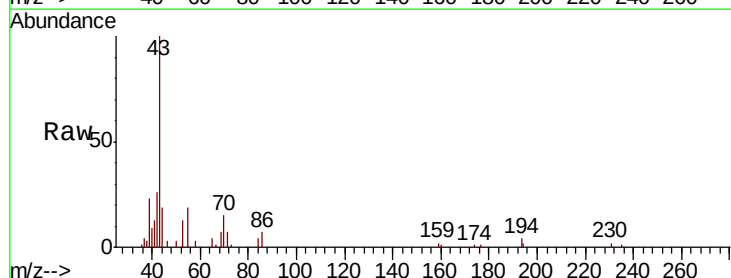
Instrument :
MSVOA_L
ClientSampleId :

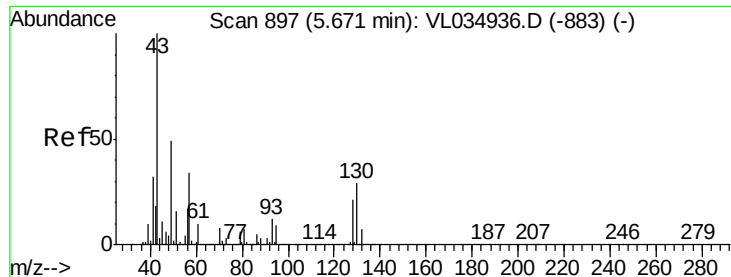
Tot Ion:	84	Resp:	101984
Ion	Ratio	Lower	Upper
84	100		
49	159.9	132.5	198.7
51	37.3	38.4	57.6#
86	65.8	51.2	76.8



#23
Vinyl Acetate
Concen: 0.111 ppbv
RT: 5.03 min Scan# 699
Delta R.T. -0.03 min
Lab File: VL035045.D
Acq: 19 May 2020 15:40

Tgt Ion:	43	Resp:	20792
Ion	Ratio	Lower	Upper
43	100		
86	4.9	5.5	8.3#
42	21.9	8.0	12.0#
44	11.9	4.5	6.7#

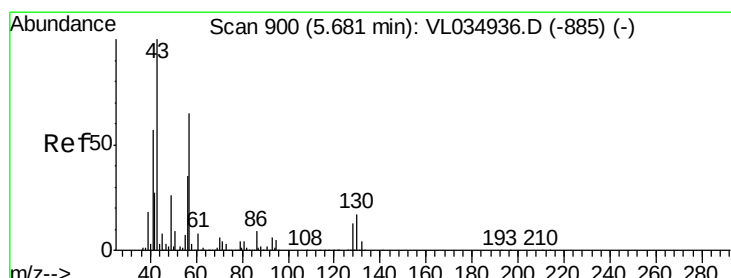
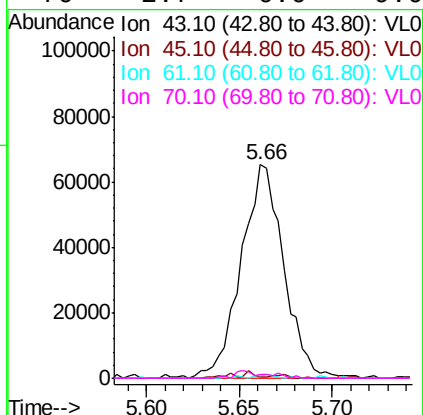
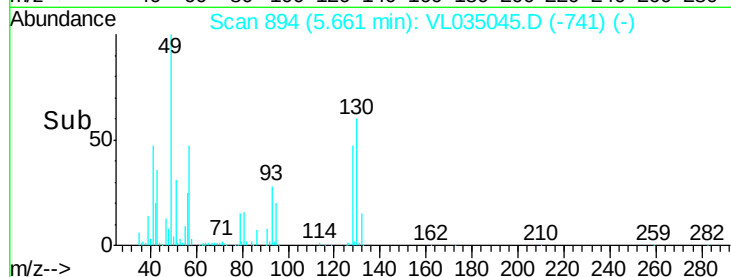
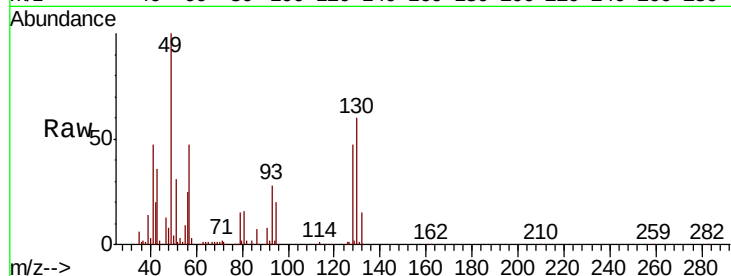




#25
Ethyl Acetate
Concen: 0.414 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.01 min
Lab File: VL035045.D
Acq: 19 May 2020 15:40

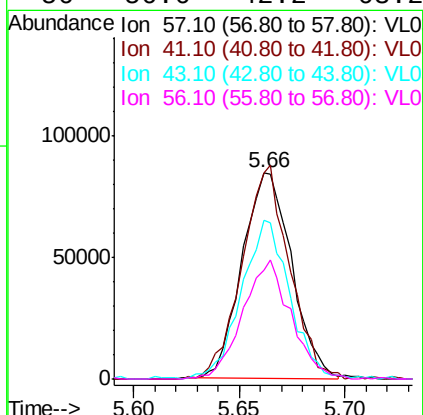
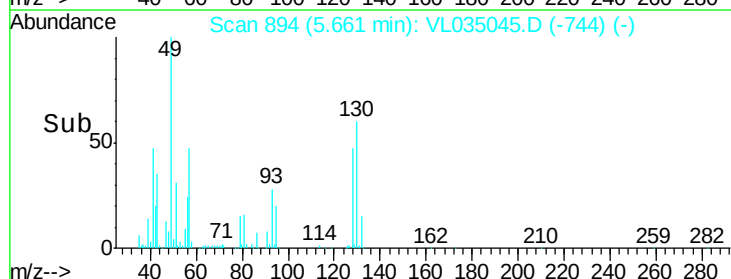
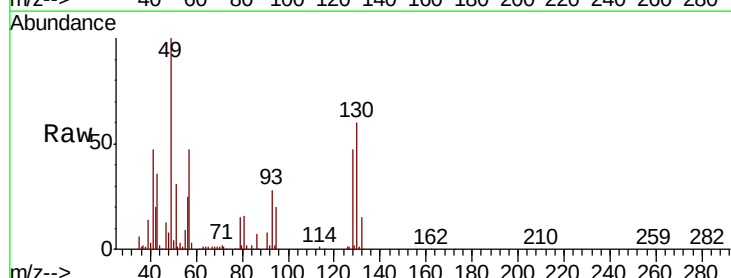
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MSVOA_L
ClientSampled :

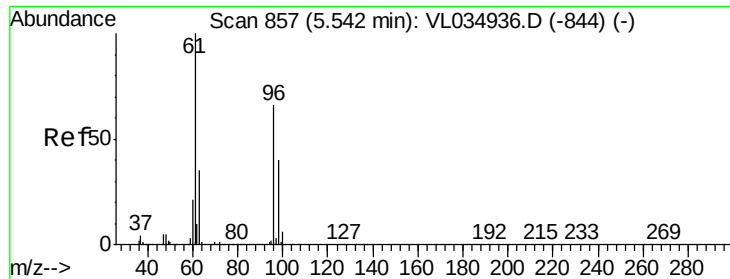
Tot Ion:	43	Resp:	102996
Ion	Ratio	Lower	Upper
43	100		
45	2.3	8.1	12.1#
61	1.3	7.8	11.8#
70	2.7	6.0	9.0#



#26
Hexane
Concen: 1.283 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.02 min
Lab File: VL035045.D
Acq: 19 May 2020 15:40

Tgt Ion:	57	Resp:	138303
Ion	Ratio	Lower	Upper
57	100		
41	99.6	72.7	109.1
43	76.1	182.1	273.1#
56	56.6	42.2	63.2



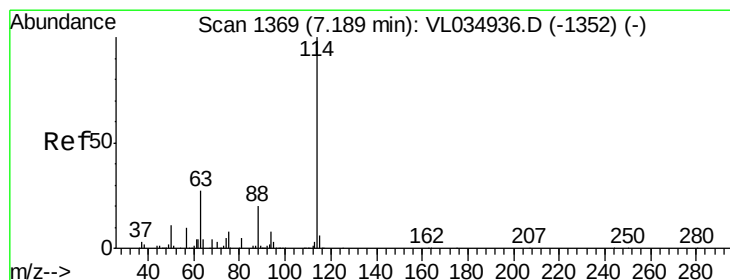
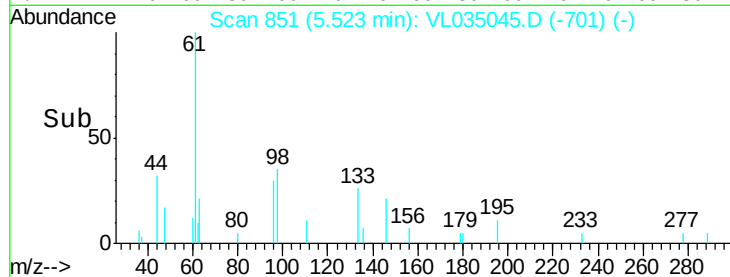
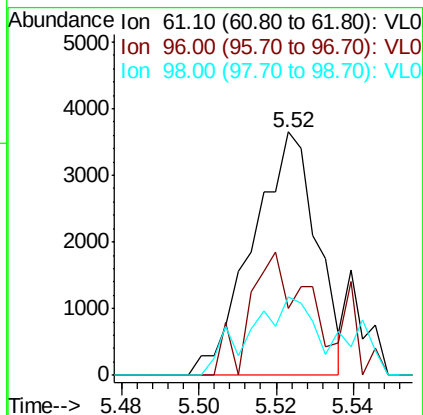
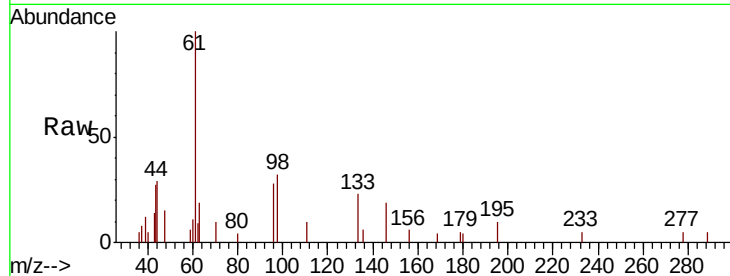


#31

cis-1,2-Dichloroethene
 Concen: 0.040 ppbv
 RT: 5.52 min Scan# 851
 Delta R.T. -0.02 min
 Lab File: VL035045.D
 Acq: 19 May 2020 15:40

Instrument :
 MSVOA_L
 ClientSampled :

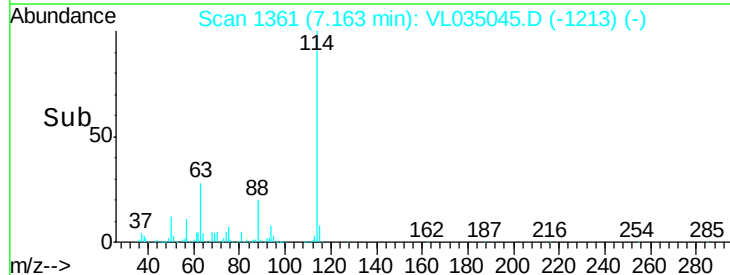
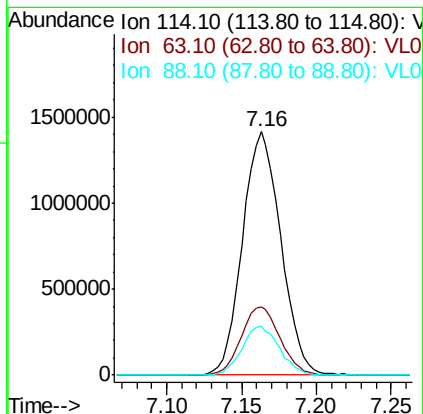
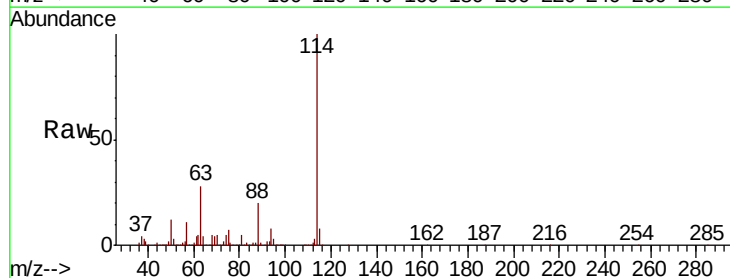
Tot Ion	Ratio	Lower	Upper
61	100		
96	27.6	53.0	79.6#
98	32.1	32.2	48.2#

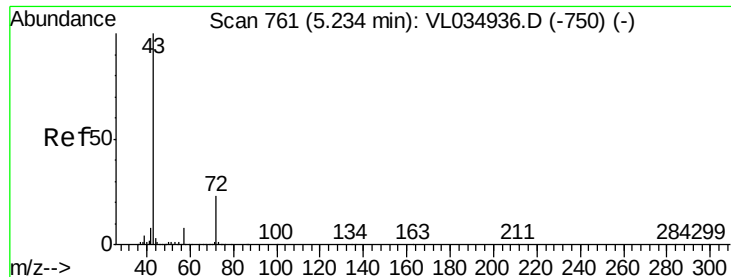


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.03 min
 Lab File: VL035045.D
 Acq: 19 May 2020 15:40

Tgt Ion	Ratio	Lower	Upper
114	100		
63	28.4	22.2	33.4
88	19.8	15.5	23.3

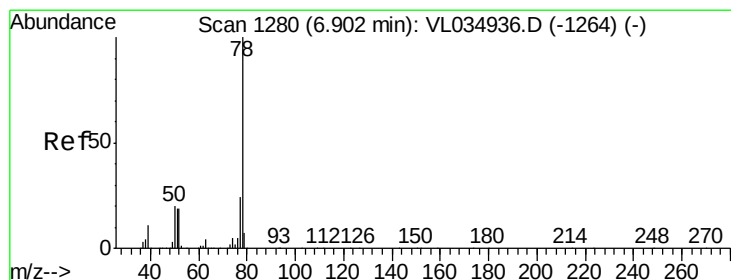
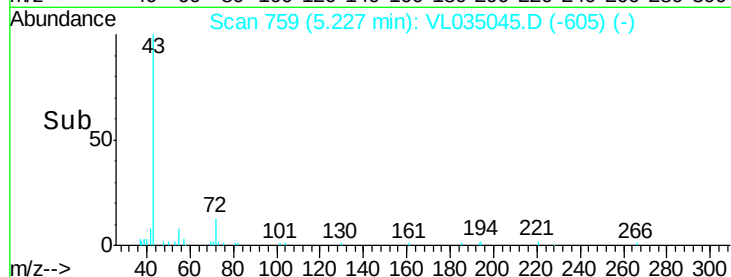
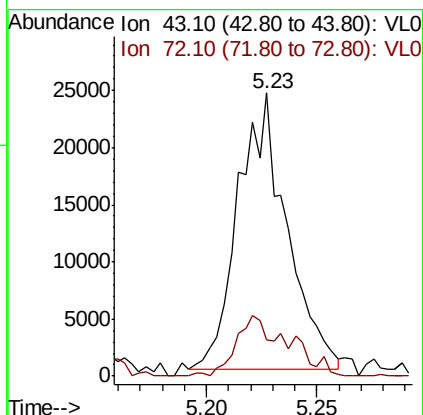
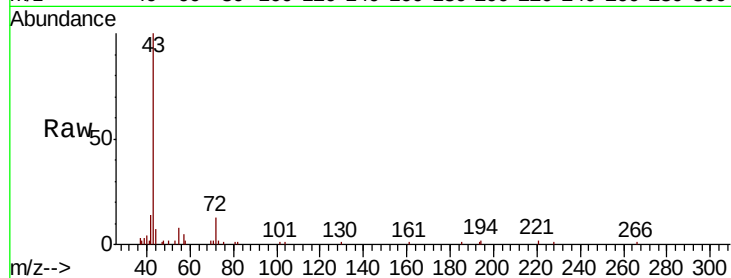




#34
2-Butanone
Concen: 0.236 ppbv
RT: 5.23 min Scan# 759
Delta R.T. -0.01 min
Lab File: VL035045.D
Acq: 19 May 2020 15:40

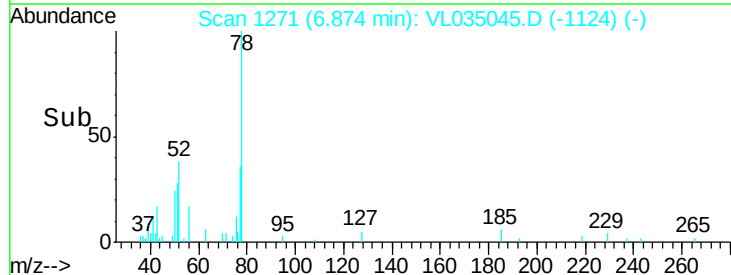
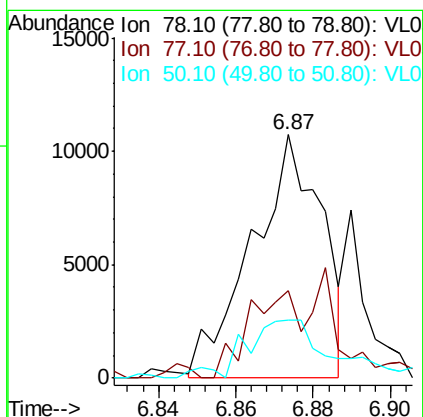
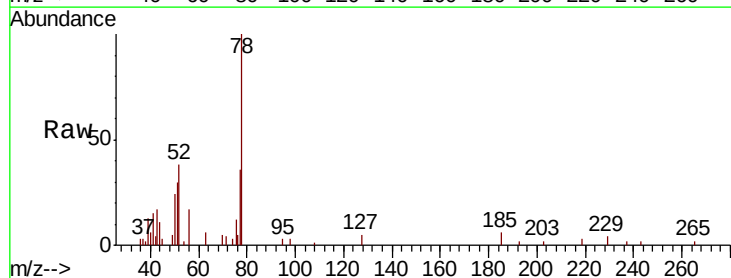
Instrument :
MSVOA_L
ClientSampleId :

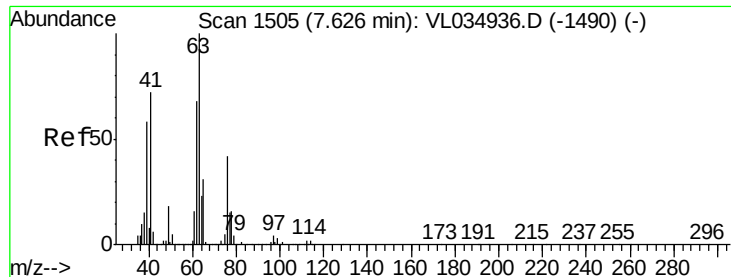
Tot Ion: 43 Resp: 37051
Ion Ratio Lower Upper
43 100
72 23.4 18.0 27.0



#36
Benzene
Concen: 0.065 ppbv
RT: 6.87 min Scan# 1271
Delta R.T. -0.03 min
Lab File: VL035045.D
Acq: 19 May 2020 15:40

Tgt Ion: 78 Resp: 13461
Ion Ratio Lower Upper
78 100
77 31.9 19.0 28.6#
50 21.6 15.8 23.8

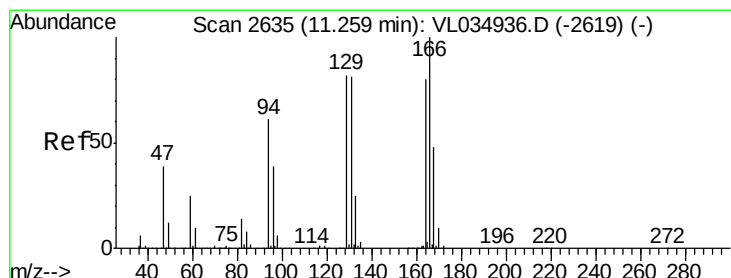
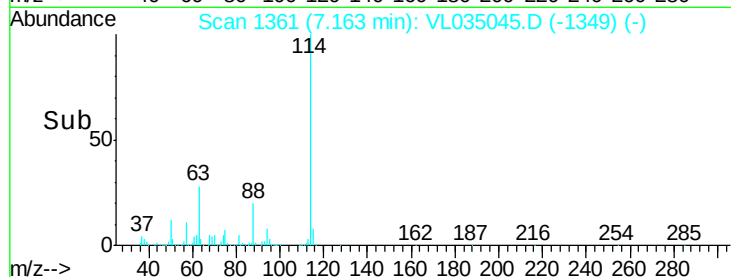
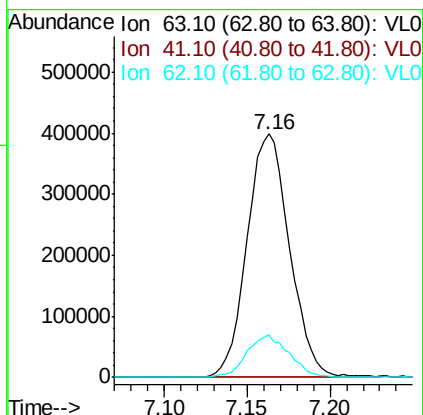
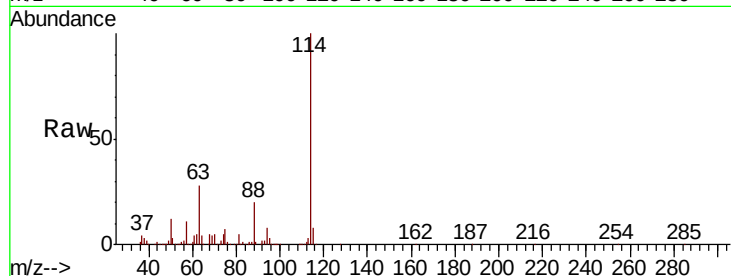




#39
 1,2-Dichloropropane
 Concen: 8.521 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.46 min
 Lab File: VL035045.D
 Acq: 19 May 2020 15:40

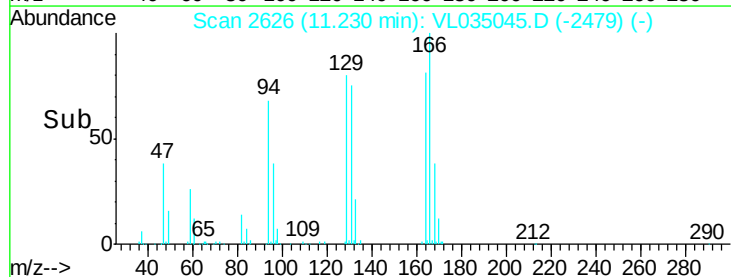
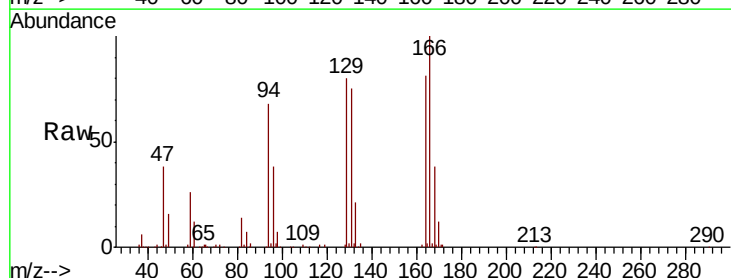
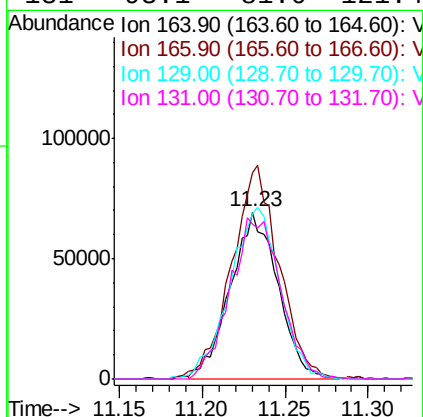
Instrument :
 MSVOA_L
 ClientSampled :

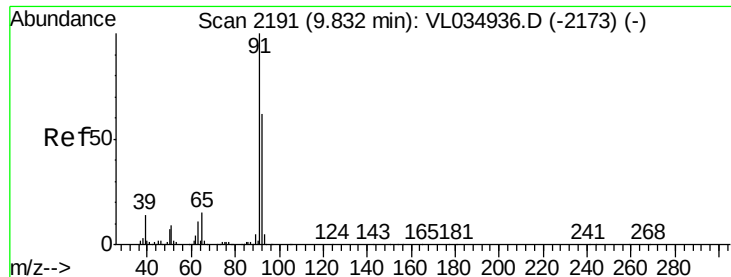
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	57.8	86.8#
62	17.3	54.2	81.2#



#52
 Tetrachloroethene
 Concen: 1.843 ppbv
 RT: 11.23 min Scan# 2626
 Delta R.T. -0.03 min
 Lab File: VL035045.D
 Acq: 19 May 2020 15:40

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.2	100.7	151.1
129	99.2	83.0	124.4
131	93.1	81.0	121.4





#53

Toluene

Concen: 1.625 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.02 min

Lab File: VL035045.D

Acq: 19 May 2020 15:40

Instrument :

MSVOA_L

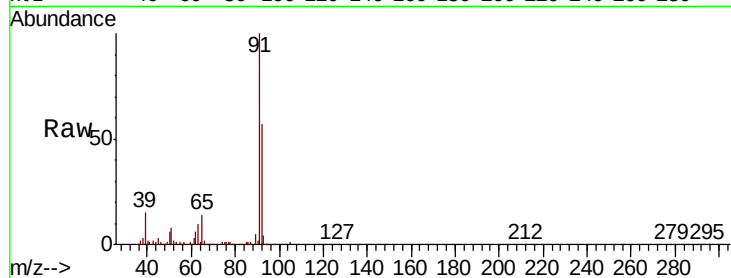
ClientSampleId :

Tot Ion: 91 Resp: 358503

Ion Ratio Lower Upper

91 100

92 56.9 48.6 73.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.81

200000

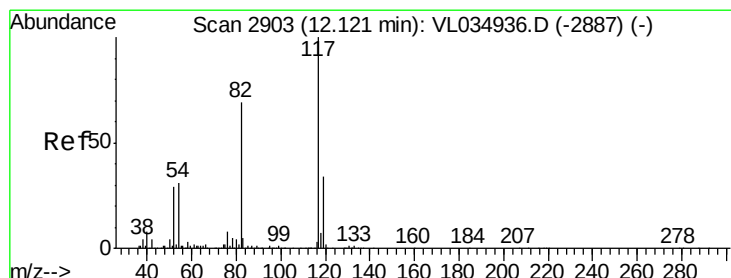
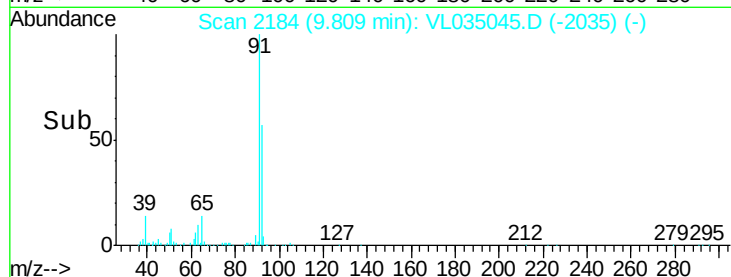
150000

100000

50000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. -0.03 min

Lab File: VL035045.D

Acq: 19 May 2020 15:40

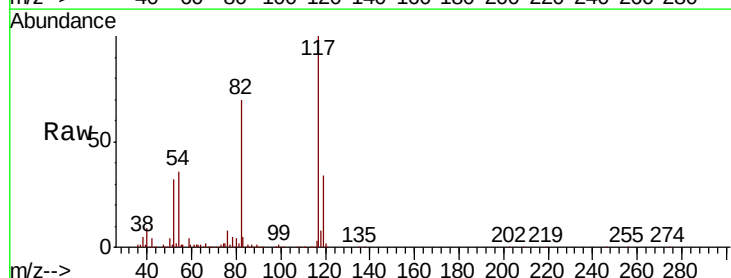
Tgt Ion: 117 Resp: 2359200

Ion Ratio Lower Upper

117 100

82 70.9 53.1 79.7

119 33.1 26.7 40.1



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

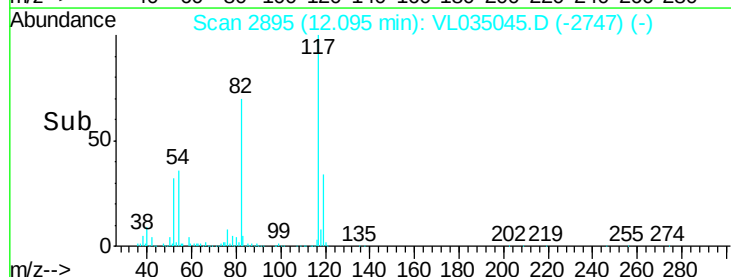
1500000

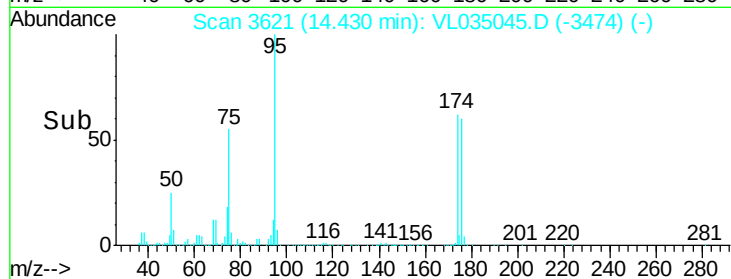
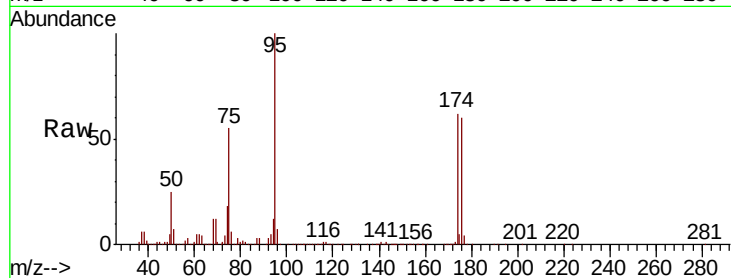
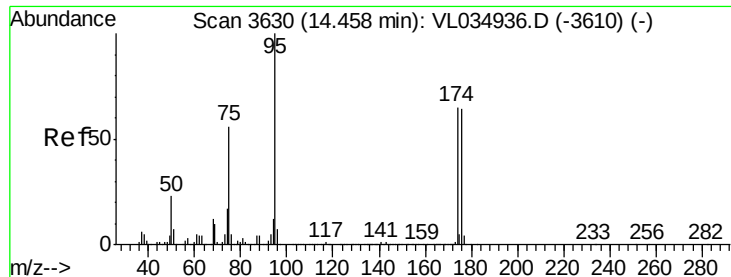
1000000

500000

0

Time-->





#68

1-Bromo-4-Fluorobenzene

Concen: 10.582 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. -0.03 min

Lab File: VL035045.D

Acq: 19 May 2020 15:40

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2020751

Ion Ratio Lower Upper

95 100

174 64.2 51.5 77.3

175 4.8 3.8 5.8

