

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042821\
 Data File : VL036879.D
 Acq On : 28 Apr 2021 14:42
 Operator : SY/AP
 Sample : M2201-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 29 03:09:19 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Apr 27 16:56:35 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1531876	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3539671	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.11	117	3202898	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2532373	9.85	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

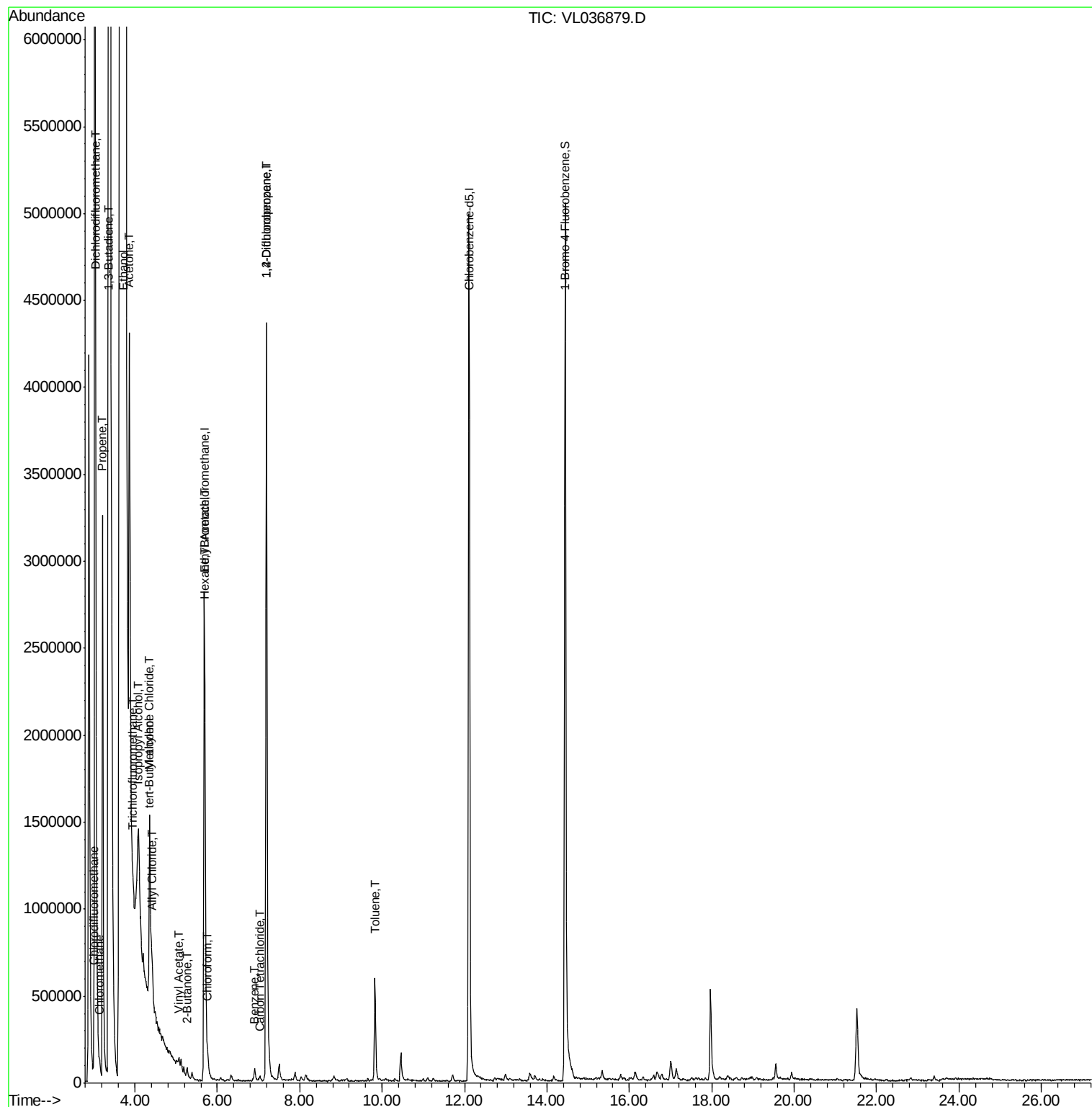
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	51775	0.215	ppbv 91
3) Chlorodifluoromethane	3.00	51	81036	0.290	ppbv # 88
4) Chloromethane	3.15	50	51206	0.558	ppbv # 84
9) Propene	3.21	41	1204188	14.162	ppbv 92
11) Trichlorofluoromethane	3.96	101	42021	0.195	ppbv 89
13) Ethanol	3.73	45	77375945	7135.761	ppbv # 34
15) Acetone	3.86	43	4101050	28.404	ppbv 99
16) 1,3-Butadiene	3.37	39	8913497	96.543	ppbv # 14
17) tert-Butyl alcohol	4.34	59	18471	0.158	ppbv # 72
19) Isopropyl Alcohol	4.08	45	808626	11.303	ppbv # 89
20) Methylene Chloride	4.36	84	393110	5.694	ppbv 94
21) Allyl Chloride	4.42	41	38909	0.363	ppbv # 17
23) Vinyl Acetate	5.08	43	18381	0.094	ppbv # 26
25) Ethyl Acetate	5.70	43	235854	0.669	ppbv # 86
26) Hexane	5.70	57	284264	1.723	ppbv # 45
29) Chloroform	5.76	83	41293	0.161	ppbv 99
34) 2-Butanone	5.26	43	29846	0.192	ppbv # 54
35) Carbon Tetrachloride	7.03	117	8588	0.036	ppbv # 92
36) Benzene	6.91	78	52835	0.177	ppbv # 89
39) 1,2-Dichloropropane	7.19	63	933576	7.814	ppbv # 24
53) Toluene	9.83	91	465173	1.491	ppbv 100

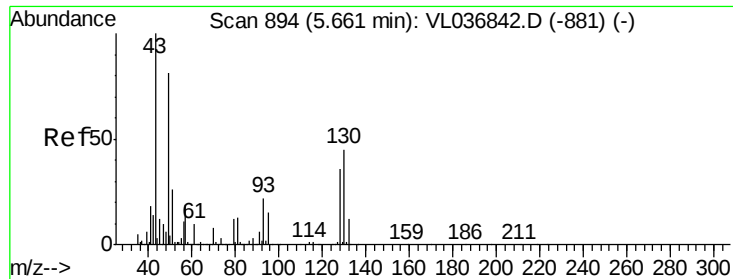
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Apr 27 16:56:35 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.02 min

Lab File: VL036879.D

Acq: 28 Apr 2021 14:42

Instrument :
MSVOA_L
ClientSampleId :

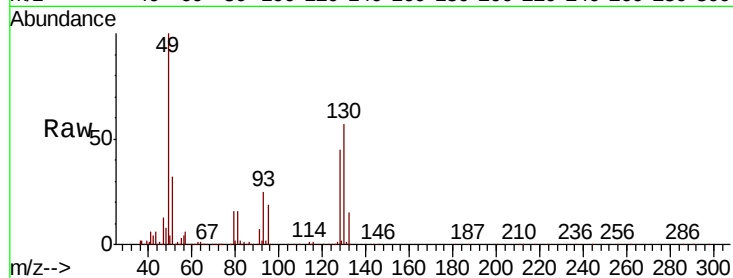
Tot Ion: 49 Resp: 1531876

Ion Ratio Lower Upper

49 100

128 47.0 24.4 73.2

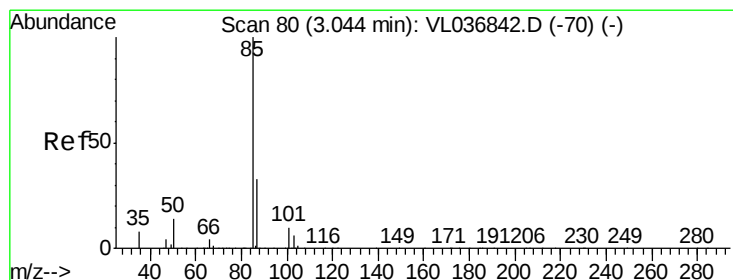
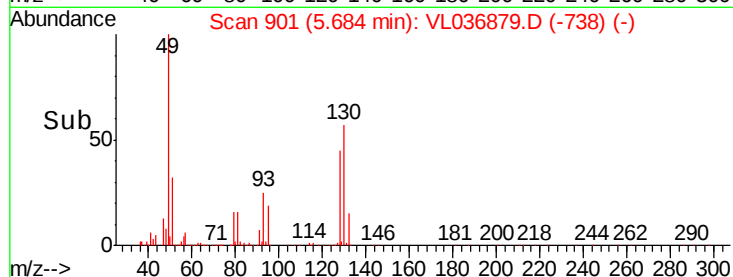
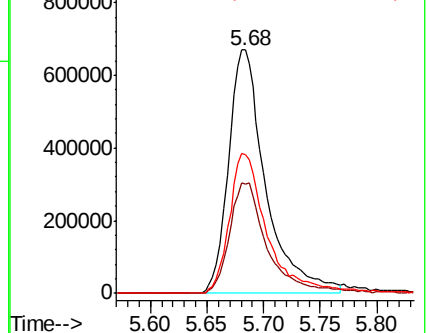
130 59.3 30.3 90.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.215 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL036879.D

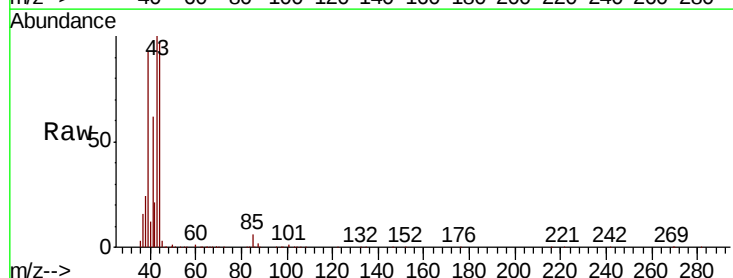
Acq: 28 Apr 2021 14:42

Tgt Ion: 85 Resp: 51775

Ion Ratio Lower Upper

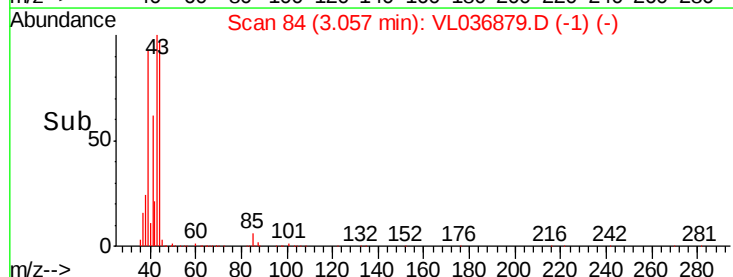
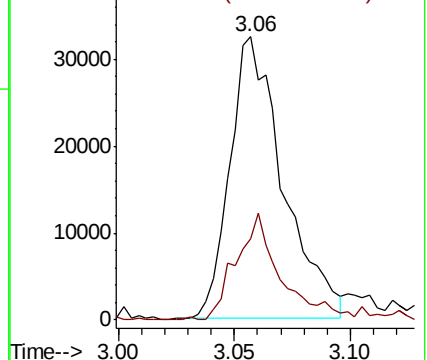
85 100

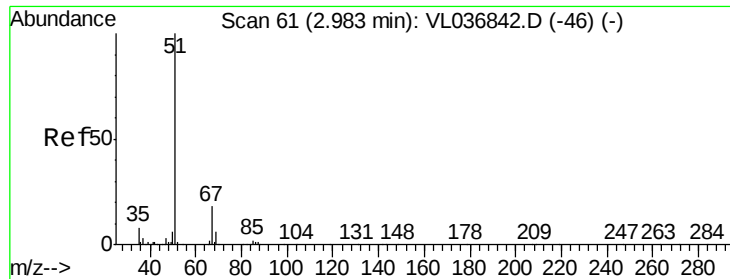
87 27.6 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.290 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.02 min

Lab File: VL036879.D

Acq: 28 Apr 2021 14:42

Instrument :

MSVOA_L

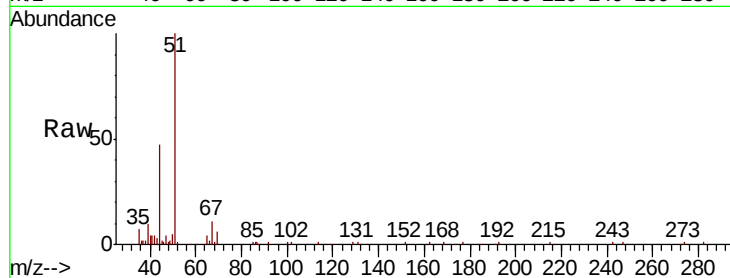
ClientSampleId :

Tot Ion: 51 Resp: 81036

Ion Ratio Lower Upper

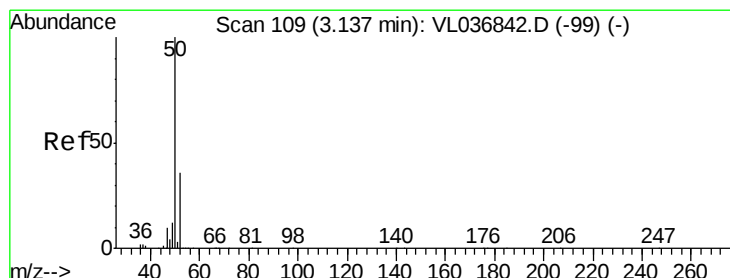
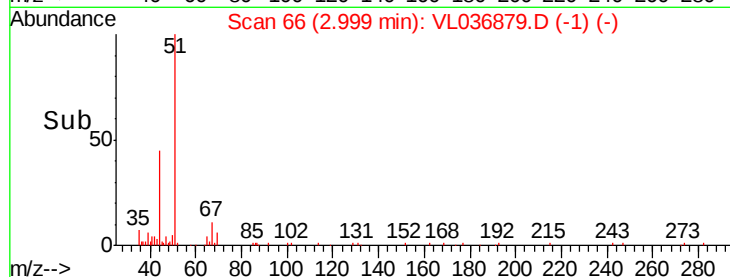
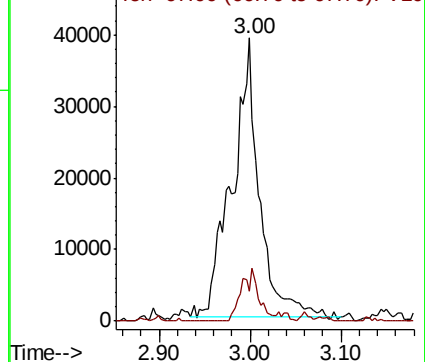
51 100

67 13.0 14.8 22.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.558 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL036879.D

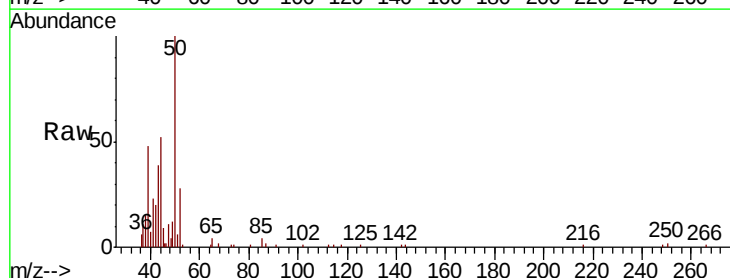
Acq: 28 Apr 2021 14:42

Tgt Ion: 50 Resp: 51206

Ion Ratio Lower Upper

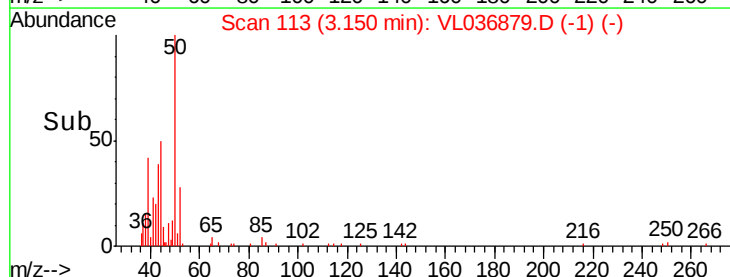
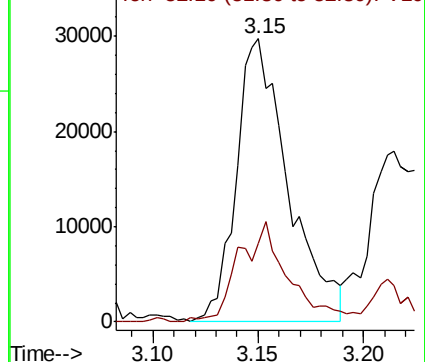
50 100

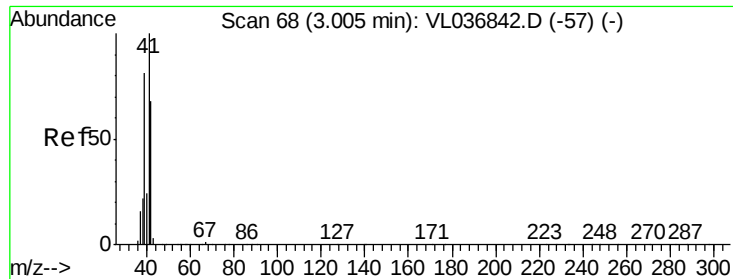
52 26.1 28.5 42.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 14.162 ppbv

RT: 3.21 min Scan# 133

Delta R.T. 0.21 min

Lab File: VL036879.D

Acq: 28 Apr 2021 14:42

Instrument :

MSVOA_L

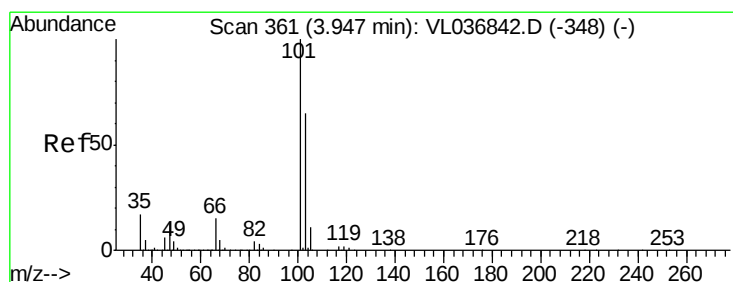
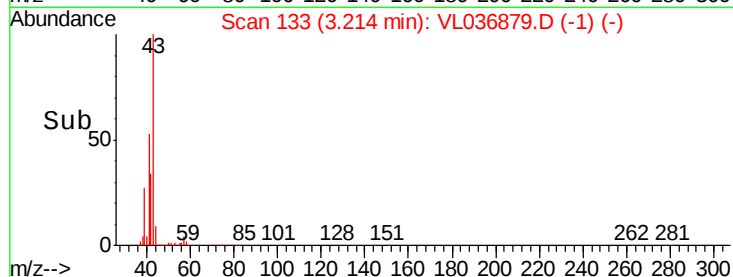
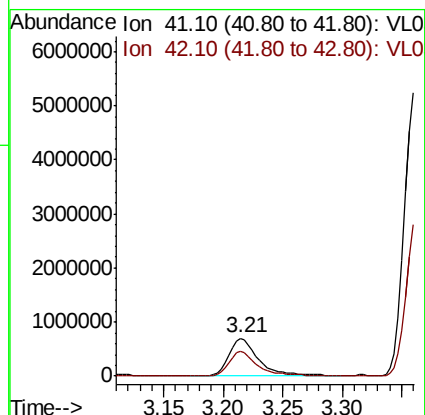
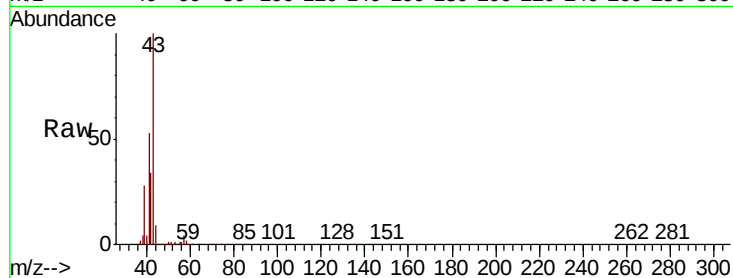
ClientSampleId :

Tot Ion: 41 Resp: 1204188

Ion Ratio Lower Upper

41 100

42 63.3 56.0 84.0



#11

Trichlorofluoromethane

Concen: 0.195 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VL036879.D

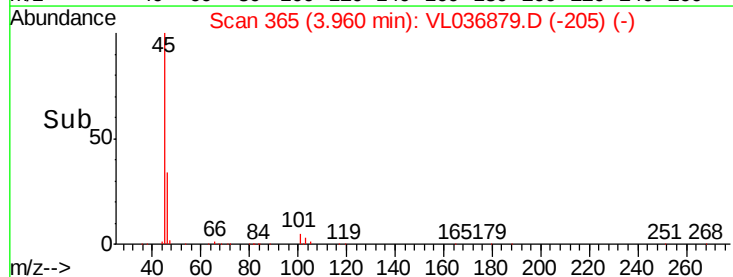
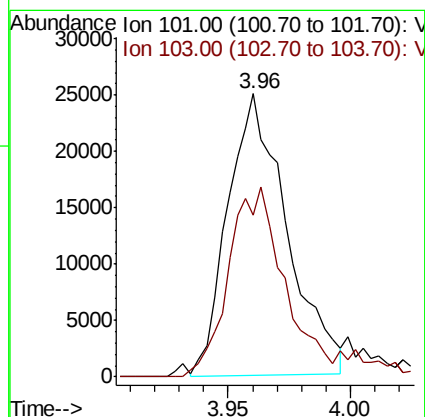
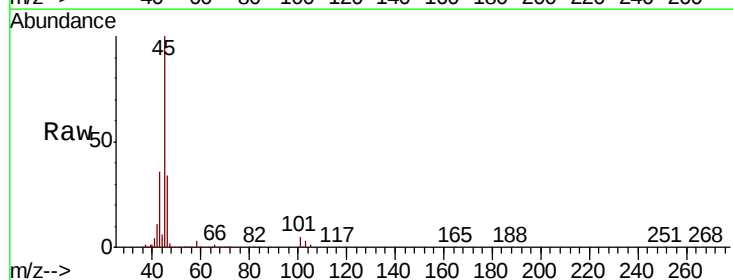
Acq: 28 Apr 2021 14:42

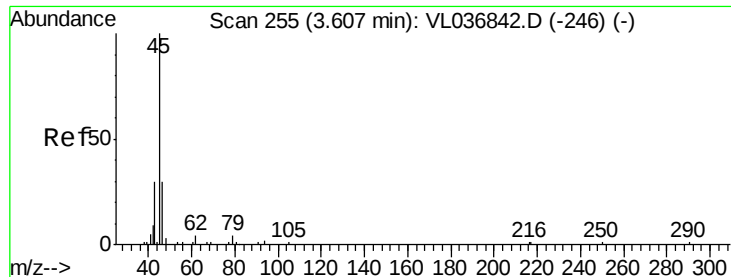
Tgt Ion: 101 Resp: 42021

Ion Ratio Lower Upper

101 100

103 55.6 51.6 77.4

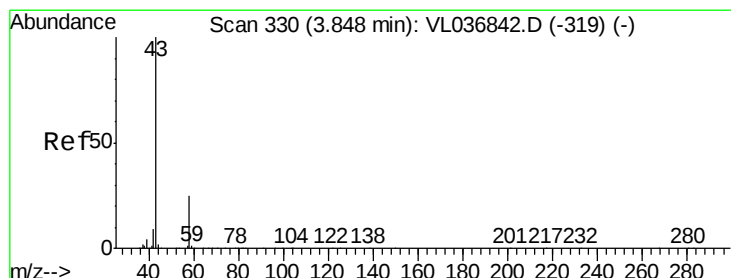
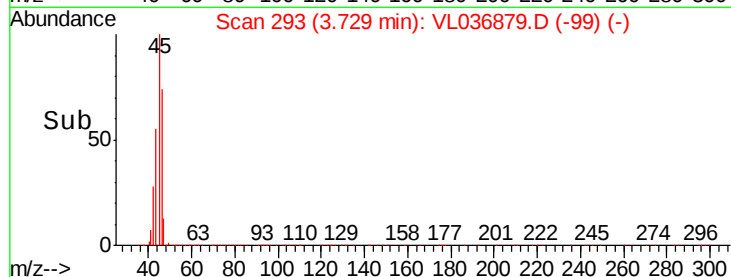
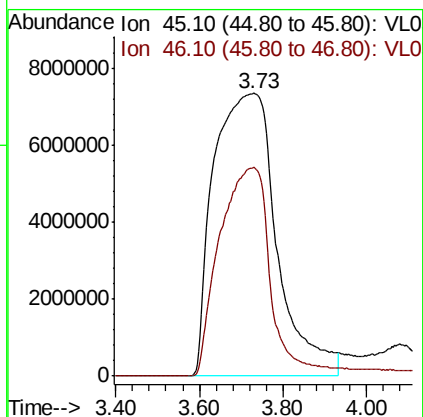
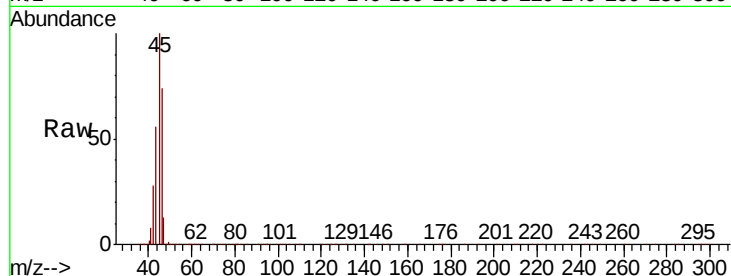




#13
Ethanol
Concen: 7135.761 ppbv
RT: 3.73 min Scan# 293
Delta R.T. 0.12 min
Lab File: VL036879.D
Acq: 28 Apr 2021 14:42

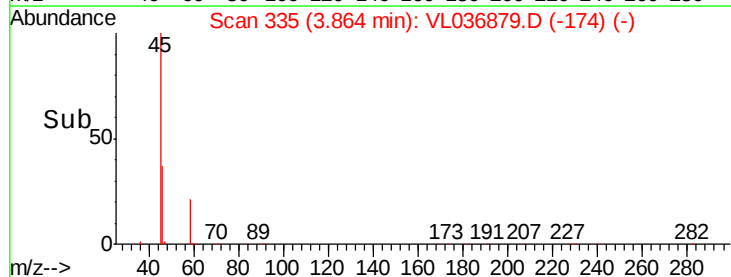
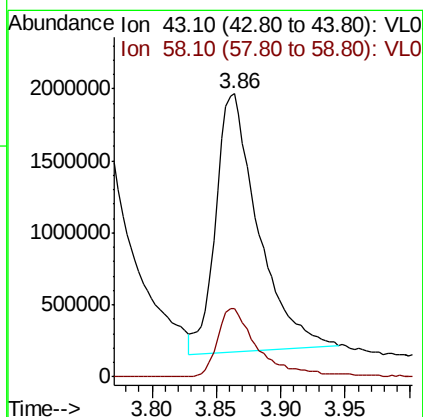
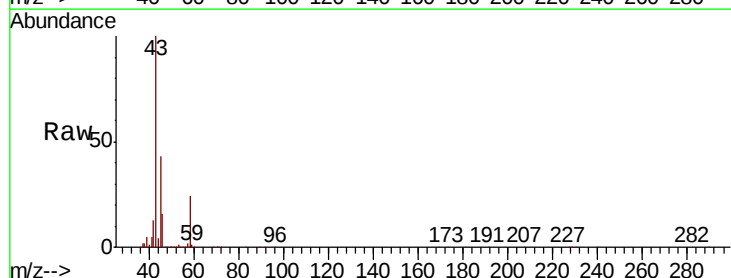
Instrument :
MSVOA_L
ClientSampleId :

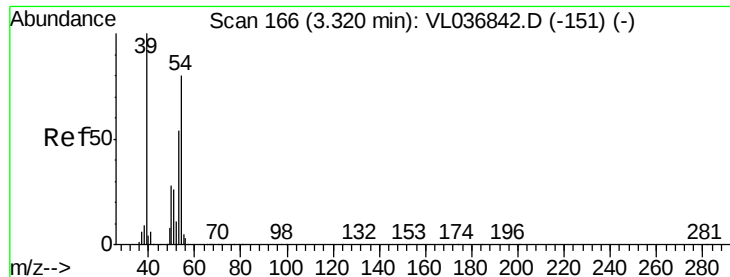
Tot Ion: 45 Resp: 77375945
Ion Ratio Lower Upper
45 100
46 0.0 16.8 67.4#



#15
Acetone
Concen: 28.404 ppbv
RT: 3.86 min Scan# 335
Delta R.T. 0.02 min
Lab File: VL036879.D
Acq: 28 Apr 2021 14:42

Tgt Ion: 43 Resp: 4101050
Ion Ratio Lower Upper
43 100
58 26.4 21.7 32.5

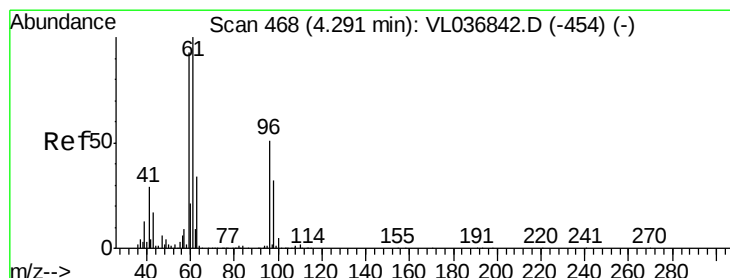
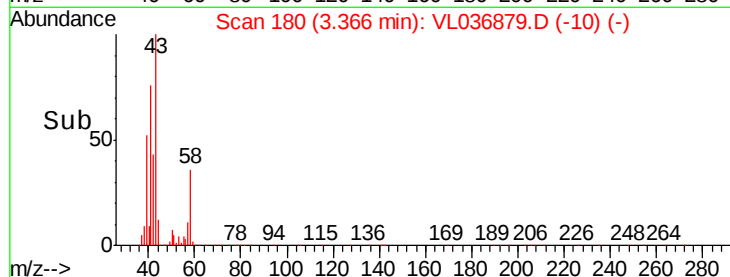
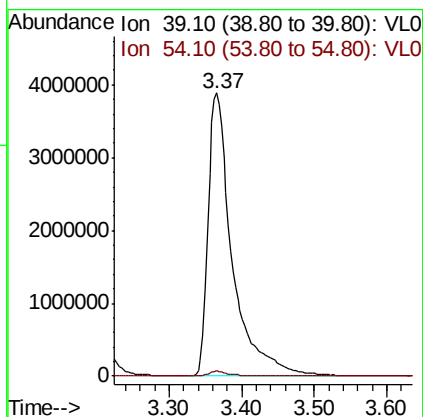
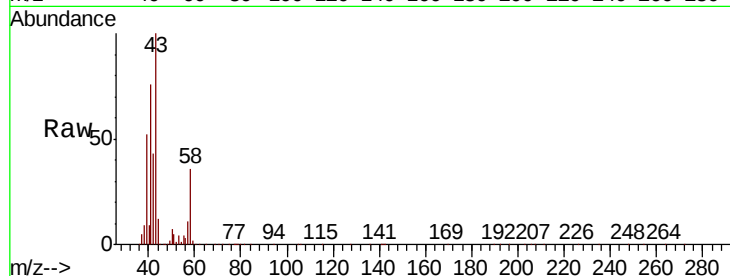




#16
 1,3-Butadiene
 Concen: 96.543 ppbv
 RT: 3.37 min Scan# 180
 Delta R.T. 0.05 min
 Lab File: VL036879.D
 Acq: 28 Apr 2021 14:42

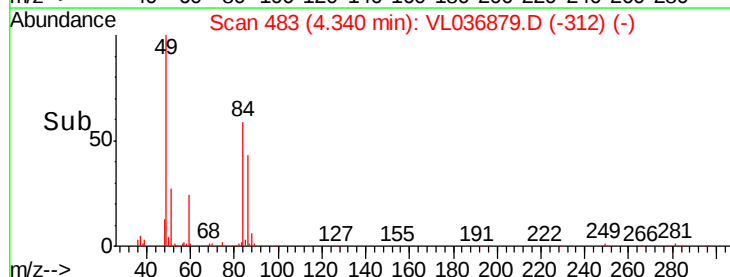
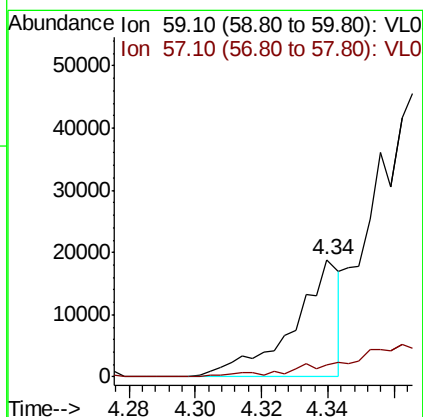
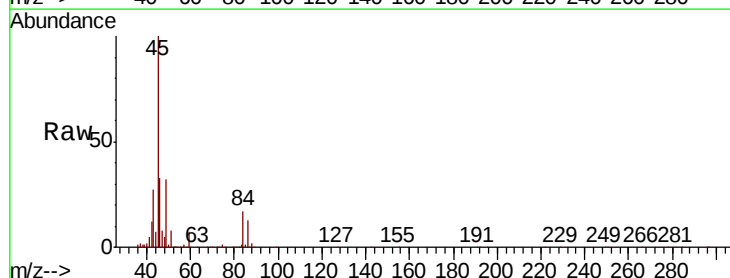
Instrument :
 MSVOA_L
 ClientSampleId :

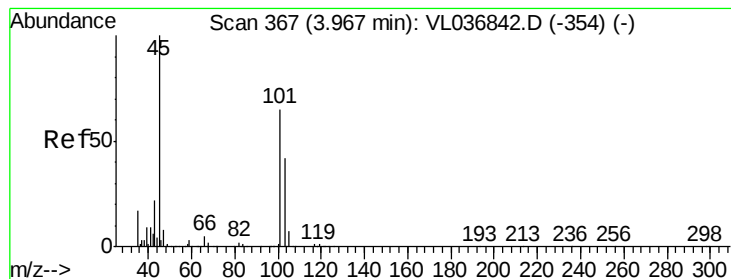
Tot Ion: 39 Resp: 8913497
 Ion Ratio Lower Upper
 39 100
 54 1.7 59.6 89.4#



#17
 tert-Butyl alcohol
 Concen: 0.158 ppbv
 RT: 4.34 min Scan# 483
 Delta R.T. 0.05 min
 Lab File: VL036879.D
 Acq: 28 Apr 2021 14:42

Tgt Ion: 59 Resp: 18471
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#





#19

Isopropyl Alcohol

Concen: 11.303 ppbv

RT: 4.08 min Scan# 402

Delta R.T. 0.11 min

Lab File: VL036879.D

Acq: 28 Apr 2021 14:42

Instrument :

MSVOA_L

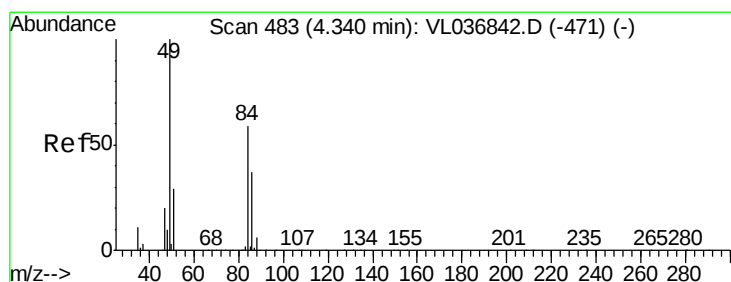
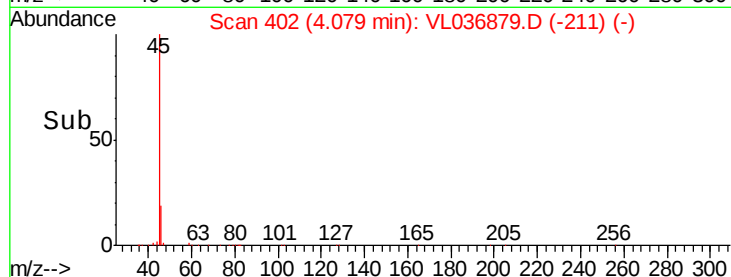
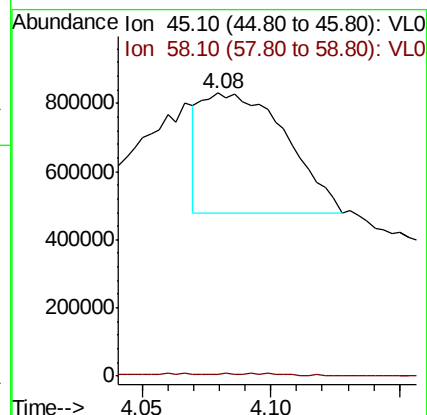
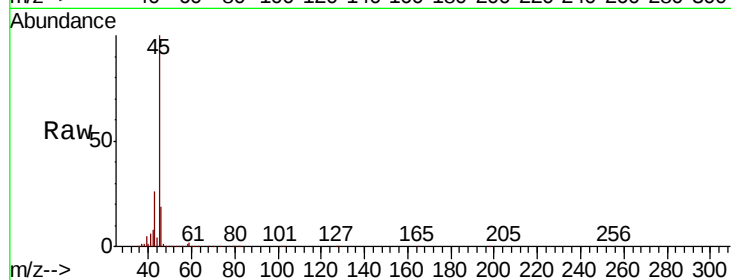
ClientSampleId :

Tot Ion: 45 Resp: 808626

Ion Ratio Lower Upper

45 100

58 0.0 2.8 4.2#



#20

Methylene Chloride

Concen: 5.694 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.02 min

Lab File: VL036879.D

Acq: 28 Apr 2021 14:42

Tgt Ion: 84 Resp: 393110

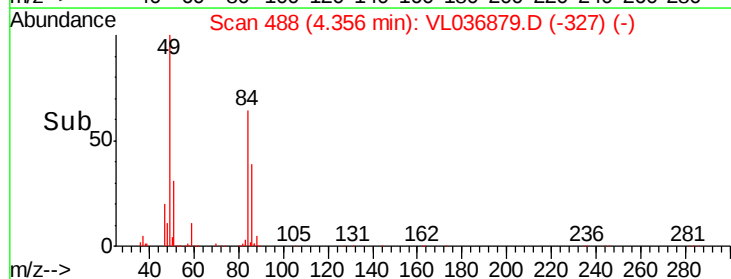
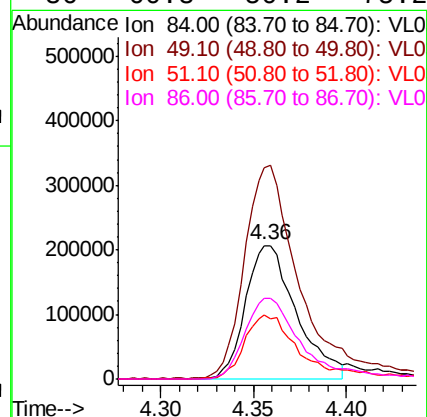
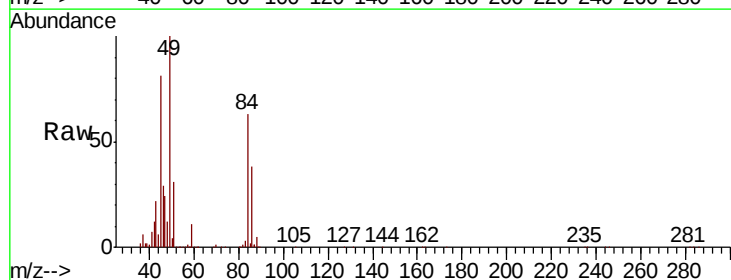
Ion Ratio Lower Upper

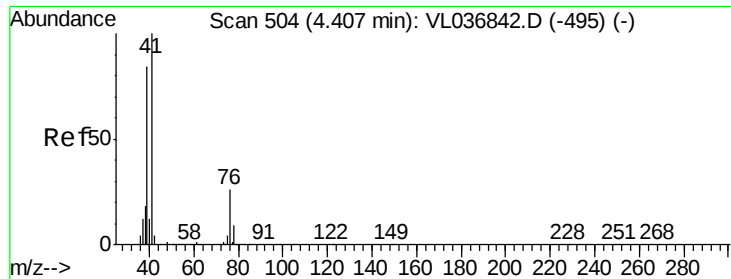
84 100

49 157.4 135.4 203.0

51 48.2 39.3 58.9

86 60.8 50.2 75.2





#21

Allvl Chloride

Concen: 0.363 ppbv

RT: 4.42 min Scan# 509

Delta R.T. 0.02 min

Lab File: VL036879.D

Acq: 28 Apr 2021 14:42

Instrument :

MSVOA_L

ClientSampleId :

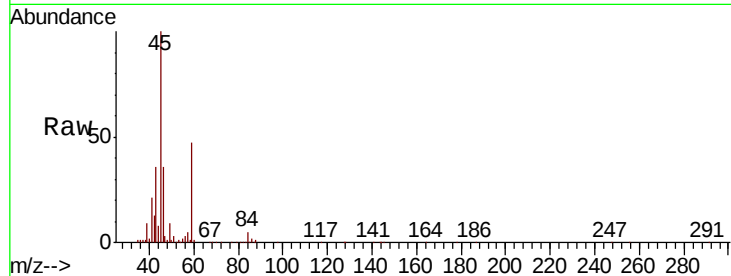
Tot Ion: 41 Resp: 38909

Ion Ratio Lower Upper

41 100

76 0.8 22.4 33.6#

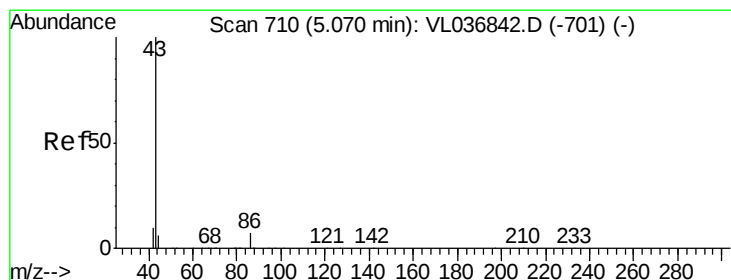
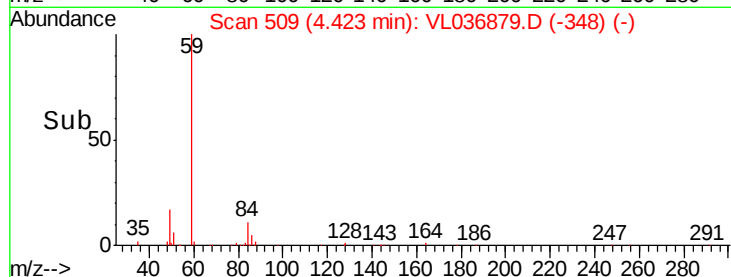
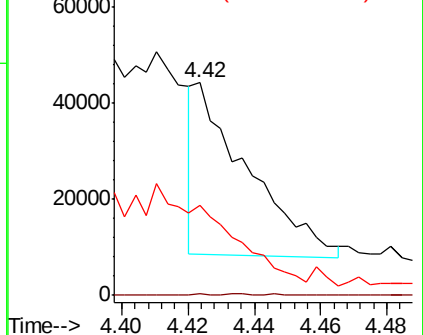
39 0.0 68.4 102.6#



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



#23

Vinyl Acetate

Concen: 0.094 ppbv

RT: 5.08 min Scan# 712

Delta R.T. 0.01 min

Lab File: VL036879.D

Acq: 28 Apr 2021 14:42

Tgt Ion: 43 Resp: 18381

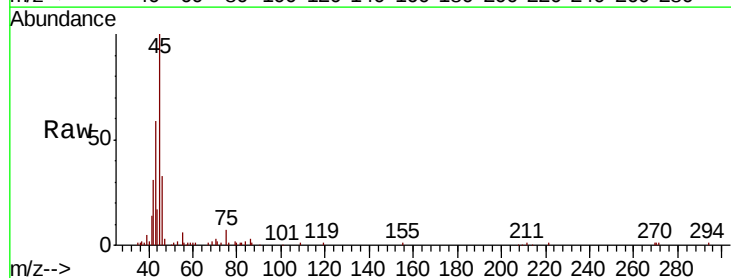
Ion Ratio Lower Upper

43 100

86 9.9 5.3 7.9#

42 63.6 8.7 13.1#

44 0.0 3.9 5.9#

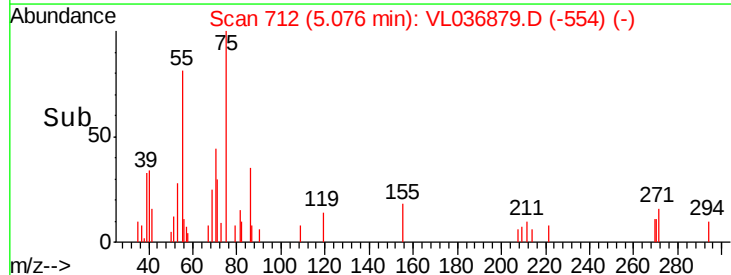
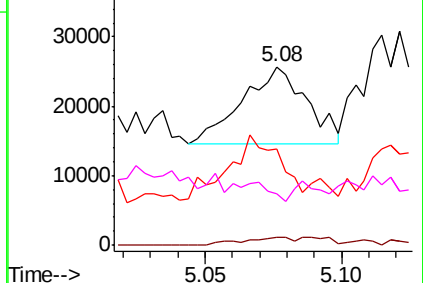


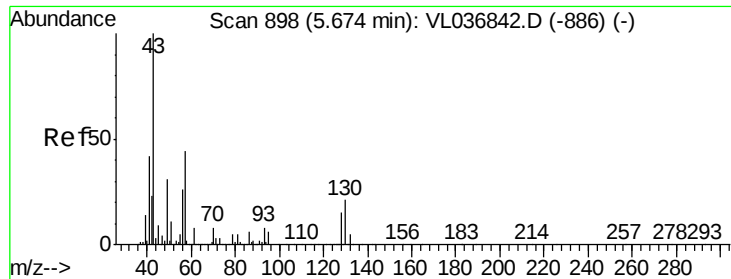
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0

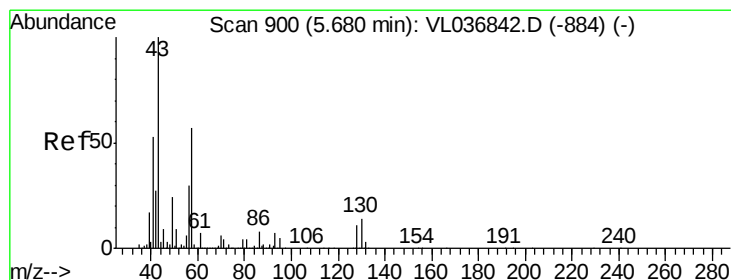
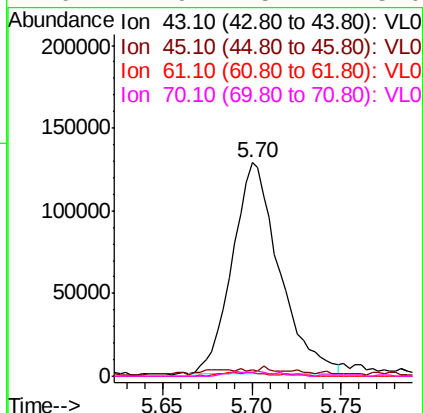
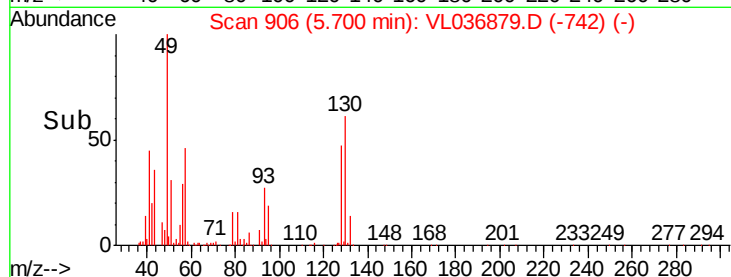
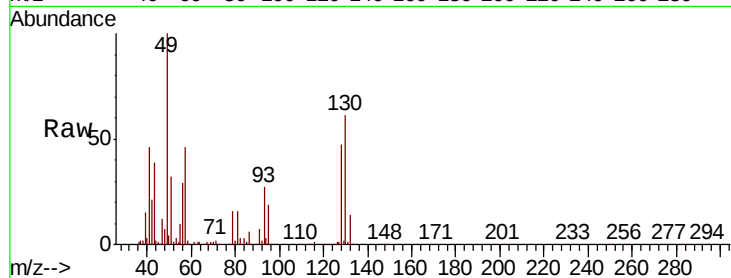




#25
Ethyl Acetate
Concen: 0.669 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.03 min
Lab File: VL036879.D
Acq: 28 Apr 2021 14:42

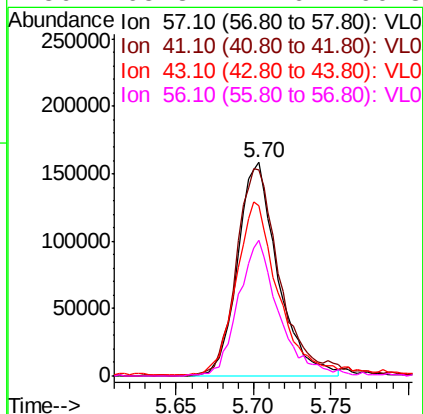
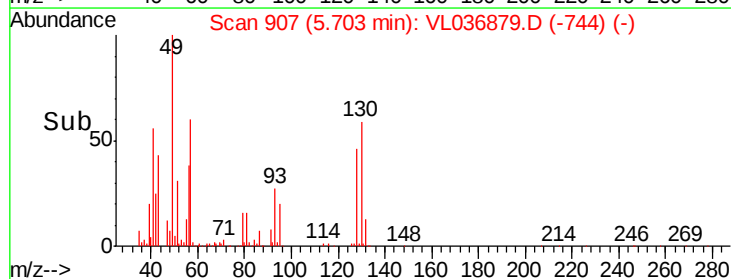
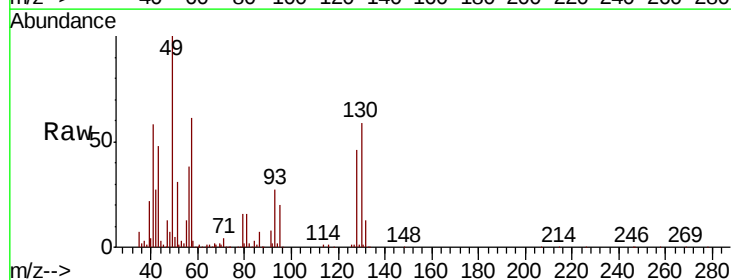
Instrument :
MSVOA_L
ClientSampleId :

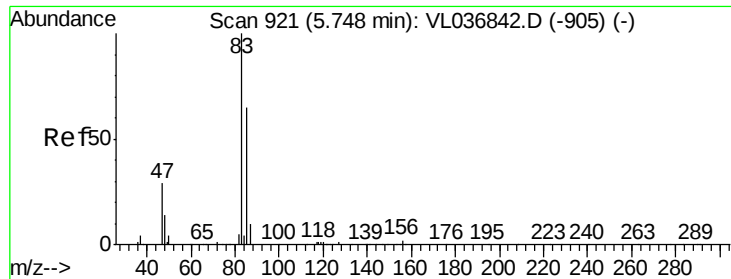
Tot Ion:	43	Resp:	235854
Ion	Ratio	Lower	Upper
43	100		
45	6.0	7.8	11.8#
61	2.2	7.4	11.0#
70	2.9	5.4	8.0#



#26
Hexane
Concen: 1.723 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.02 min
Lab File: VL036879.D
Acq: 28 Apr 2021 14:42

Tgt Ion:	57	Resp:	284264
Ion	Ratio	Lower	Upper
57	100		
41	108.1	77.7	116.5
43	88.1	180.5	270.7#
56	65.3	44.6	66.8





#29

Chloroform

Concen: 0.161 ppbv

RT: 5.76 min Scan# 926

Delta R.T. 0.02 min

Lab File: VL036879.D

Acq: 28 Apr 2021 14:42

Instrument :

MSVOA_L

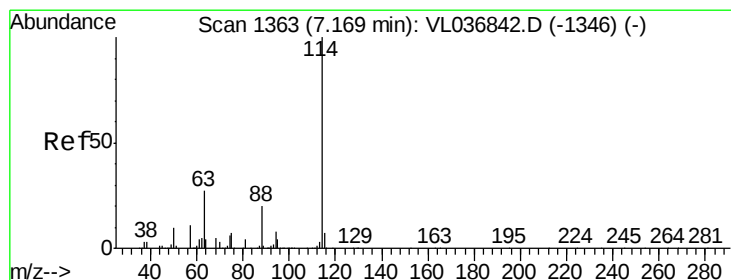
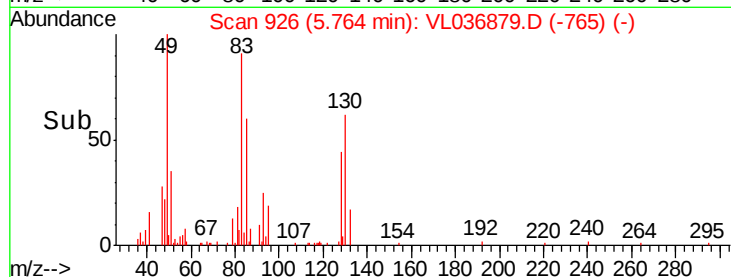
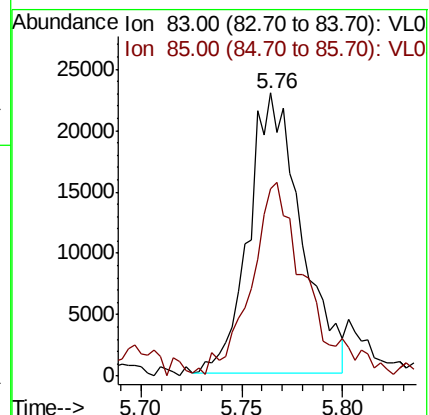
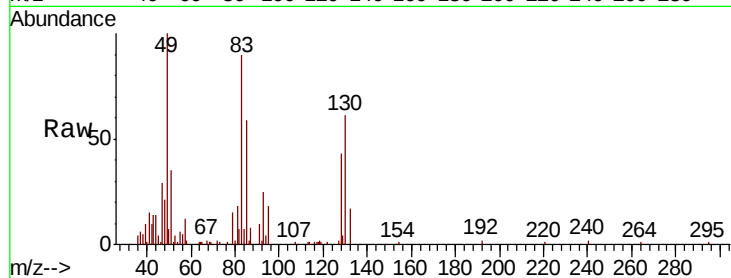
ClientSampled :

Tot Ion: 83 Resp: 41293

Ion Ratio Lower Upper

83 100

85 65.9 52.2 78.4



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. 0.02 min

Lab File: VL036879.D

Acq: 28 Apr 2021 14:42

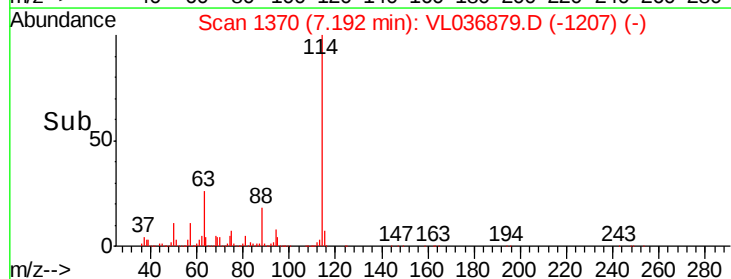
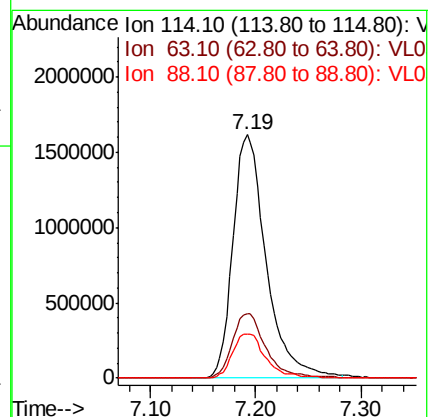
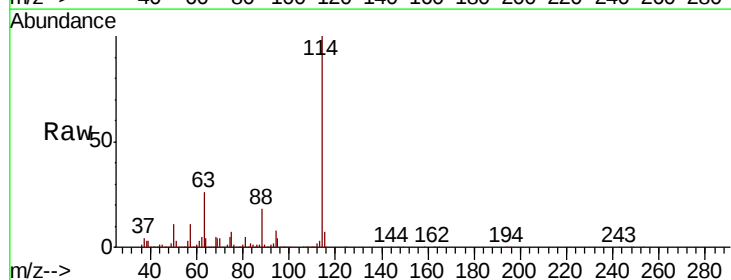
Tgt Ion: 114 Resp: 3539671

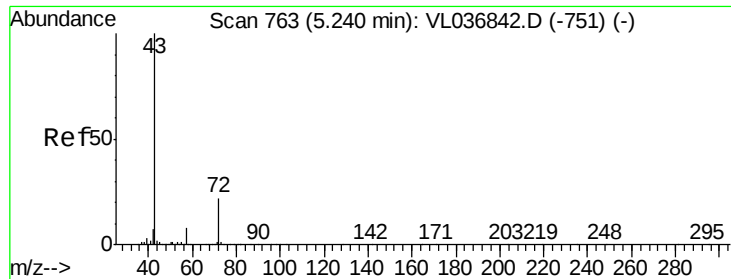
Ion Ratio Lower Upper

114 100

63 26.8 21.9 32.9

88 18.5 15.1 22.7

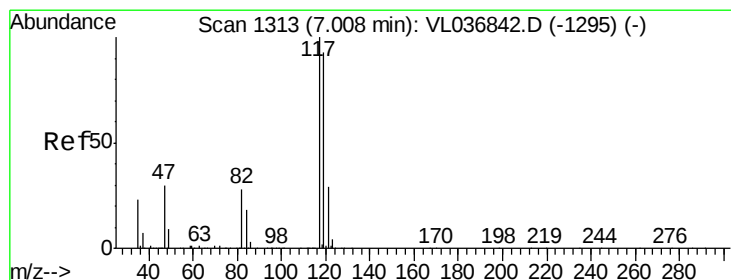
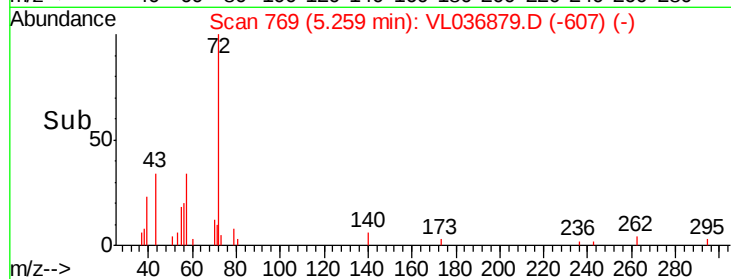
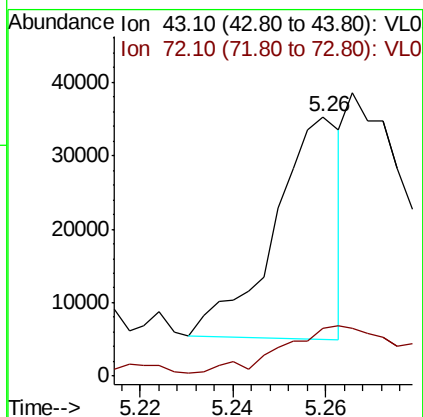
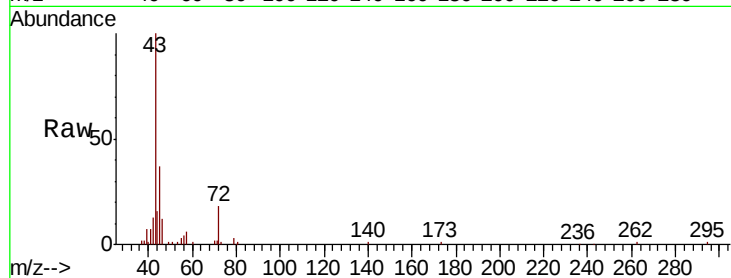




#34
2-Butanone
Concen: 0.192 ppbv
RT: 5.26 min Scan# 769
Delta R.T. 0.02 min
Lab File: VL036879.D
Acq: 28 Apr 2021 14:42

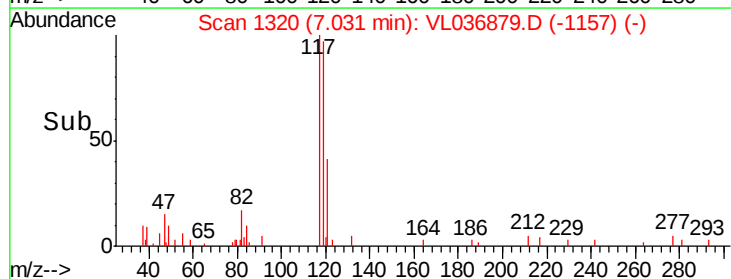
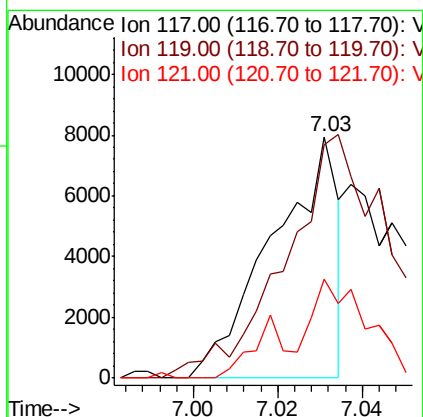
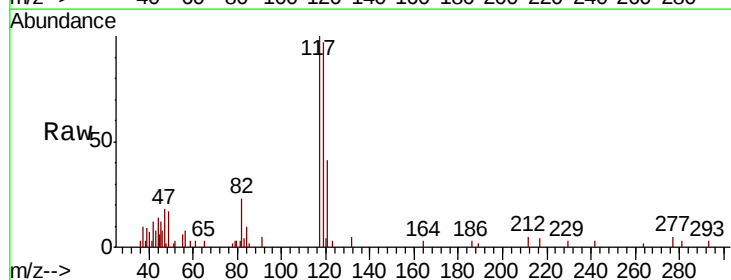
Instrument :
MSVOA_L
ClientSampleId :

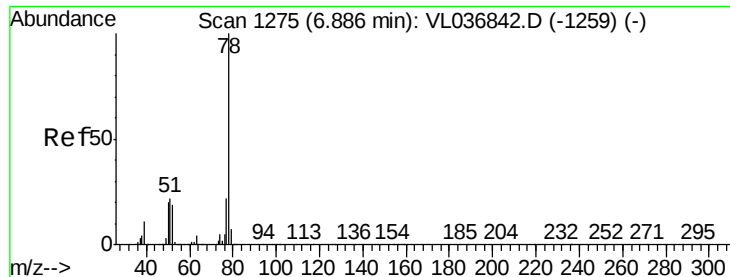
Tot Ion: 43 Resp: 29846
Ion Ratio Lower Upper
43 100
72 0.0 17.6 26.4#



#35
Carbon Tetrachloride
Concen: 0.036 ppbv
RT: 7.03 min Scan# 1320
Delta R.T. 0.02 min
Lab File: VL036879.D
Acq: 28 Apr 2021 14:42

Tgt Ion: 117 Resp: 8588
Ion Ratio Lower Upper
117 100
119 90.3 74.6 111.8
121 40.9 23.3 34.9#

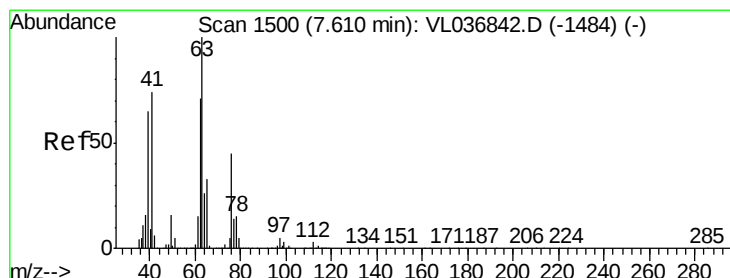
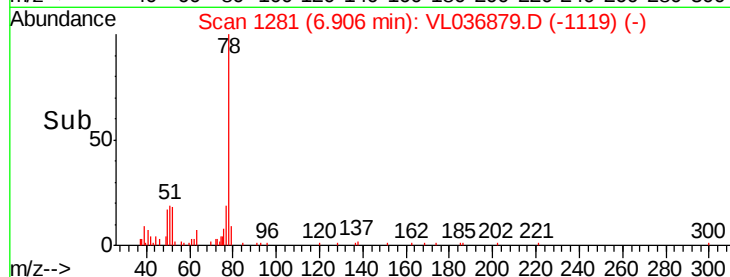
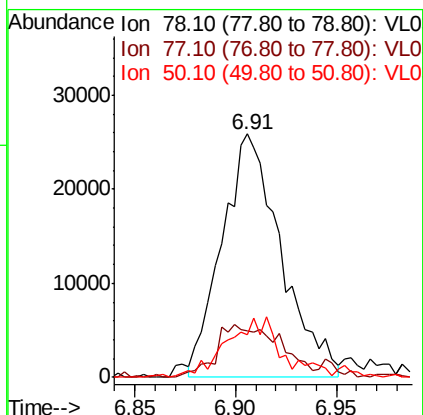
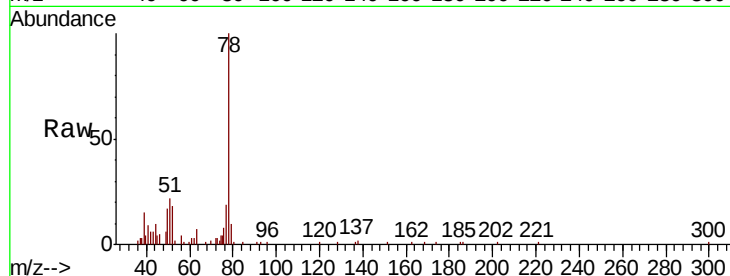




#36
Benzene
Concen: 0.177 ppbv
RT: 6.91 min Scan# 1281
Delta R.T. 0.02 min
Lab File: VL036879.D
Acq: 28 Apr 2021 14:42

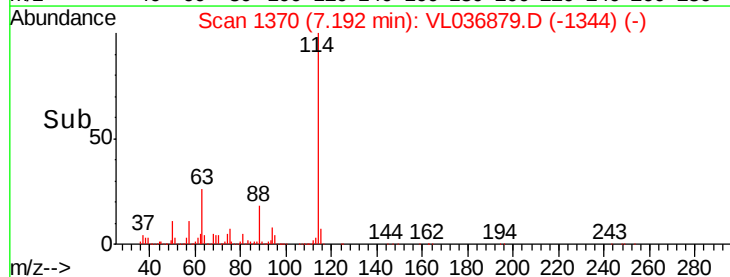
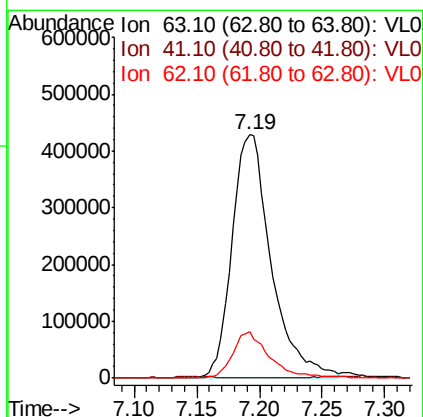
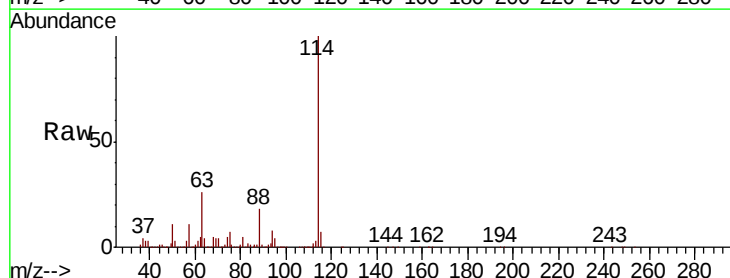
Instrument :
MSVOA_L
ClientSampleId :

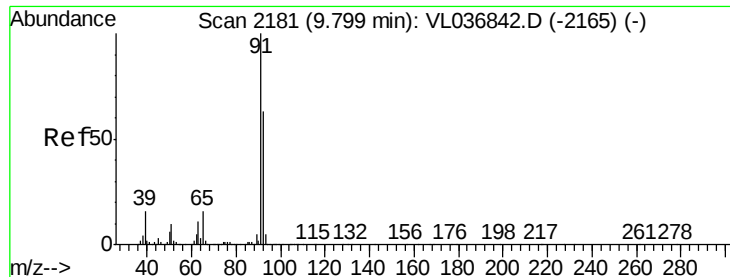
Tot Ion: 78 Resp: 52835
Ion Ratio Lower Upper
78 100
77 17.4 17.6 26.4#
50 14.9 16.3 24.5#



#39
1,2-Dichloropropane
Concen: 7.814 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. -0.42 min
Lab File: VL036879.D
Acq: 28 Apr 2021 14:42

Tgt Ion: 63 Resp: 933576
Ion Ratio Lower Upper
63 100
41 0.0 59.1 88.7#
62 18.8 56.9 85.3#





#53

Toluene

Concen: 1.491 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.03 min

Lab File: VL036879.D

Acq: 28 Apr 2021 14:42

Instrument :

MSVOA_L

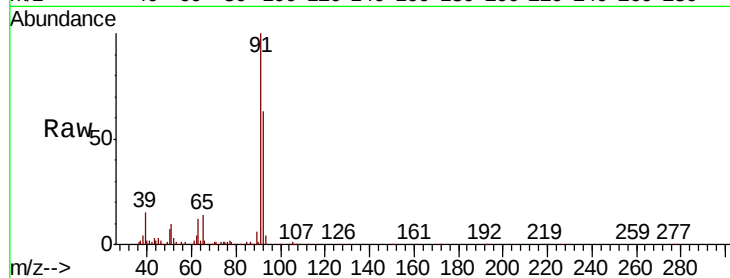
ClientSampleId :

Tot Ion: 91 Resp: 465173

Ion Ratio Lower Upper

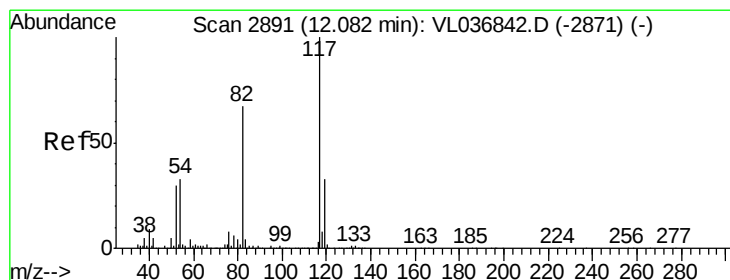
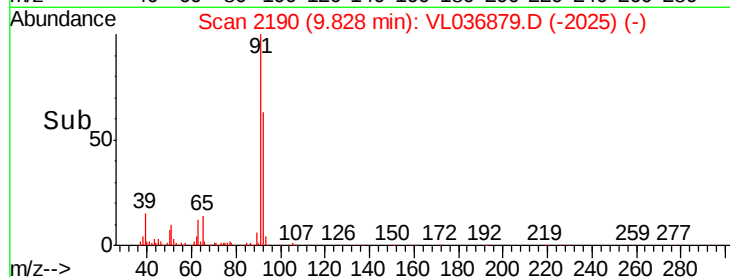
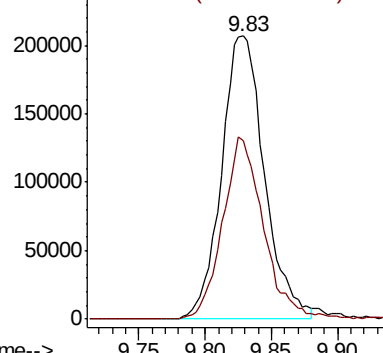
91 100

92 61.5 49.0 73.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. 0.03 min

Lab File: VL036879.D

Acq: 28 Apr 2021 14:42

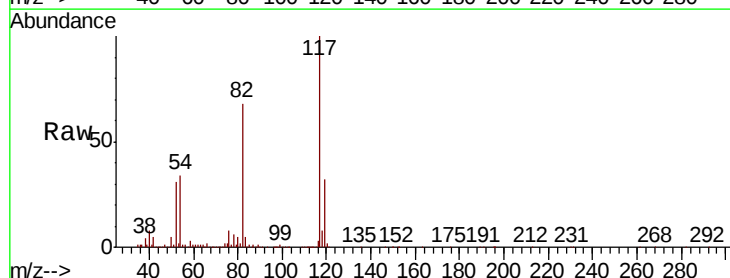
Tgt Ion: 117 Resp: 3202898

Ion Ratio Lower Upper

117 100

82 68.2 53.5 80.3

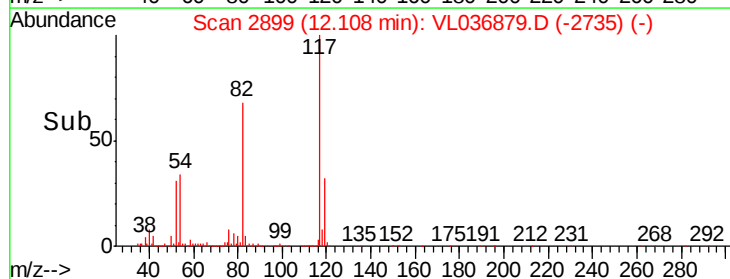
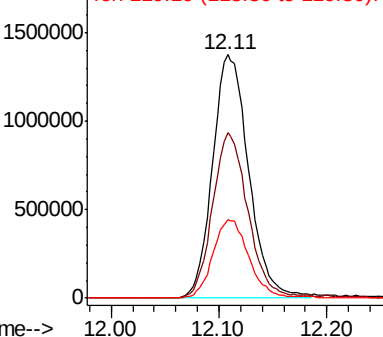
119 32.5 25.6 38.4

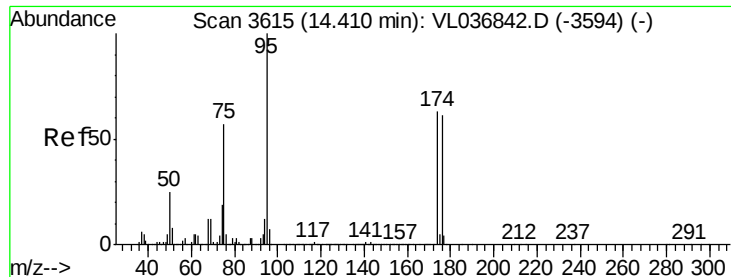


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.849 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. 0.03 min

Lab File: VL036879.D

Acq: 28 Apr 2021 14:42

Instrument :

MSVOA_L

ClientSampleId :

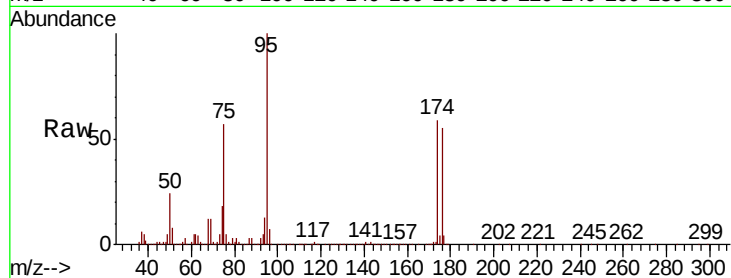
Tot Ion: 95 Resp: 2532373

Ion Ratio Lower Upper

95 100

174 64.5 52.2 78.2

175 4.8 4.0 6.0



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

