

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060221\
 Data File : VL037120.D
 Acq On : 3 Jun 2021 3:33
 Operator : SY/AP
 Sample : M2548-17
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 03 07:40:29 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1312637	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3921385	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3527122	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2715533	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

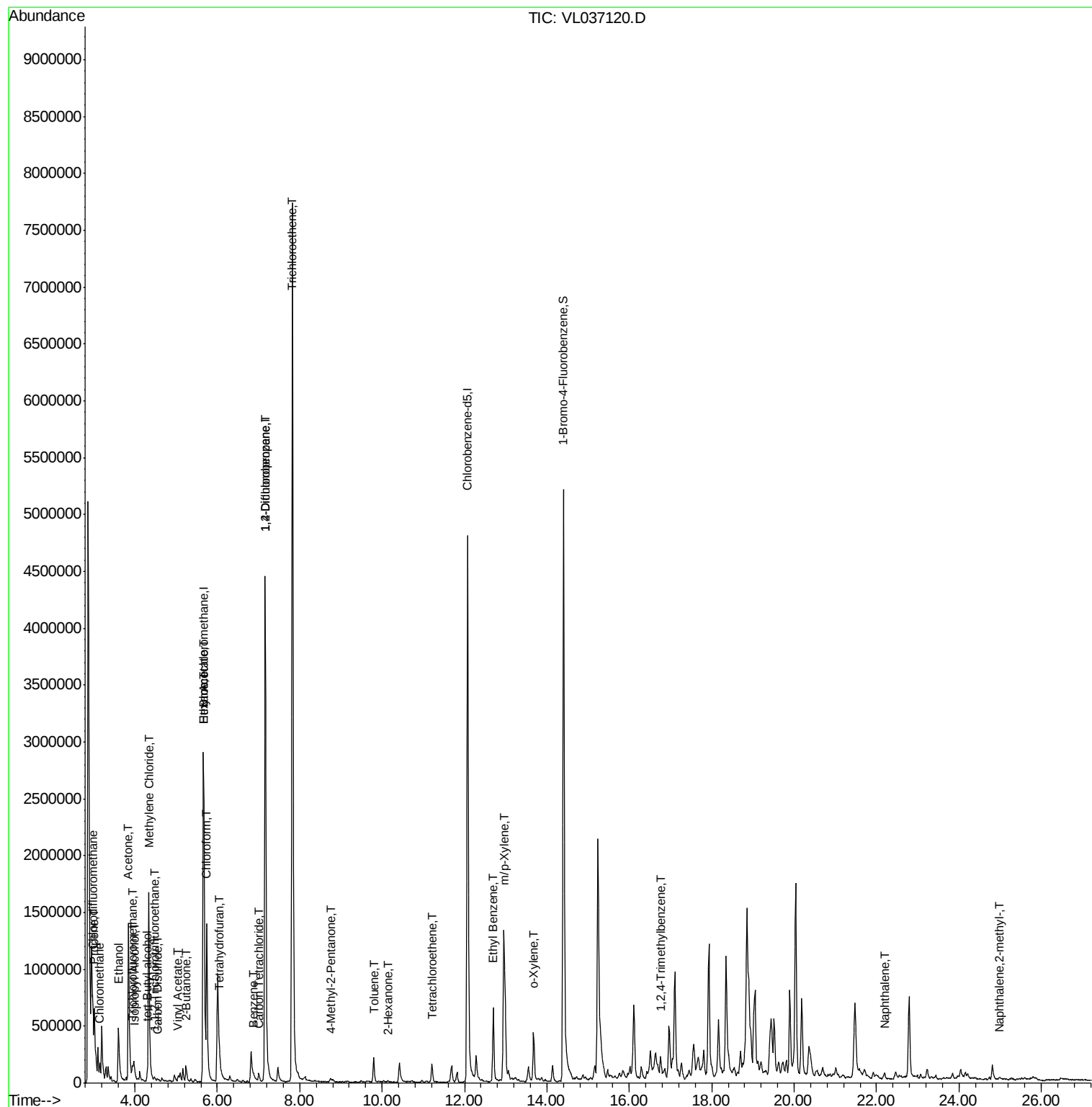
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	254991	1.060	ppbv #	69
4) Chloromethane	3.13	50	5811	0.071	ppbv #	73
9) Propene	3.00	41	13111	0.152	ppbv #	16
11) Trichlorofluoromethane	3.94	101	78412	0.380	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	8096	0.055	ppbv #	44
13) Ethanol	3.60	45	617785	53.770	ppbv	97
15) Acetone	3.84	43	1870851	13.915	ppbv	99
17) tert-Butyl alcohol	4.30	59	61006	0.495	ppbv	97
19) Isopropyl Alcohol	4.01	45	8520	0.118	ppbv #	30
20) Methylene Chloride	4.34	84	724953	10.059	ppbv	99
23) Vinyl Acetate	5.06	43	50743	0.238	ppbv #	79
25) Ethyl Acetate	5.68	43	403078	1.248	ppbv #	78
26) Hexane	5.68	57	580299	3.516	ppbv #	46
27) Carbon Disulfide	4.55	76	9106	0.055	ppbv #	1
29) Chloroform	5.74	83	1068748	4.583	ppbv	97
34) 2-Butanone	5.24	43	192409	1.348	ppbv	94
35) Carbon Tetrachloride	7.01	117	22239	0.085	ppbv	94
36) Benzene	6.88	78	13319	0.039	ppbv #	88
38) Trichloroethene	7.83	130	2925410	20.246	ppbv	96
39) 1,2-Dichloropropane	7.16	63	930135	7.148	ppbv #	26
41) Tetrahydrofuran	6.05	42	110828	1.363	ppbv #	86
50) 4-Methyl-2-Pentanone	8.75	43	16796	0.071	ppbv #	69
51) 2-Hexanone	10.14	43	8803	0.071	ppbv #	39
52) Tetrachloroethene	11.21	164	40467	0.301	ppbv	91
53) Toluene	9.80	91	168151	0.418	ppbv	98
58) Ethyl Benzene	12.70	91	591791	1.189	ppbv	96
59) m/p-Xylene	12.95	91	1560361	3.792	ppbv	99
60) o-Xylene	13.68	91	347994	0.887	ppbv	98
74) 1,2,4-Trimethylbenzene	16.75	105	24667	0.055	ppbv #	64
79) Naphthalene	22.20	128	14857	0.042	ppbv #	94
80) Naphthalene,2-methyl-	24.97	142	6917	0.090	ppbv #	65

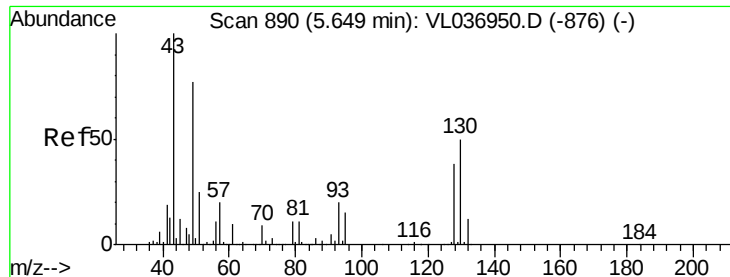
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060221\
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Instrument :
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.01 min

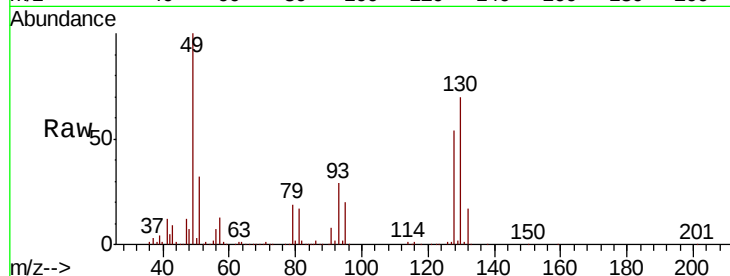
Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 49 Resp: 1312637

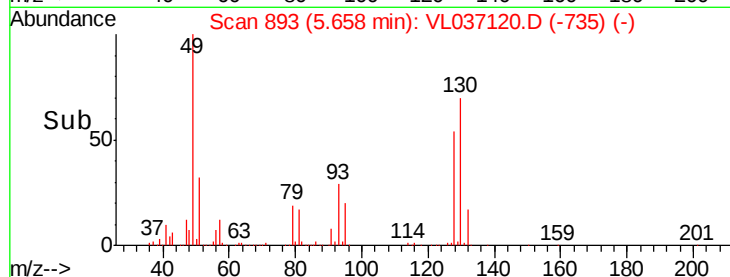
Ion	Ratio	Lower	Upper
49	100		
128	56.5	26.9	80.7
130	74.0	33.8	101.4



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: 1.060 ppbv

RT: 2.98 min Scan# 60

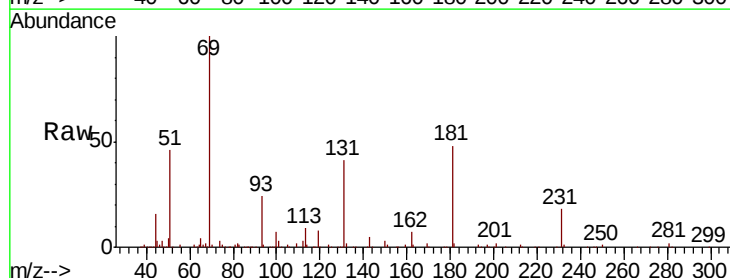
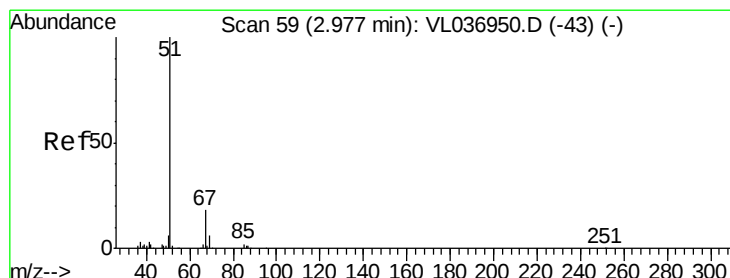
Delta R.T. 0.00 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

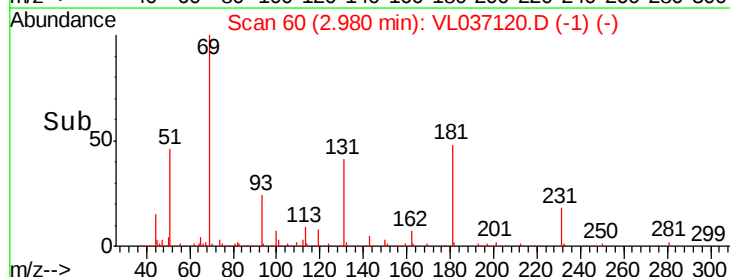
Tgt Ion: 51 Resp: 254991

Ion	Ratio	Lower	Upper
51	100		
67	4.3	14.6	21.8#

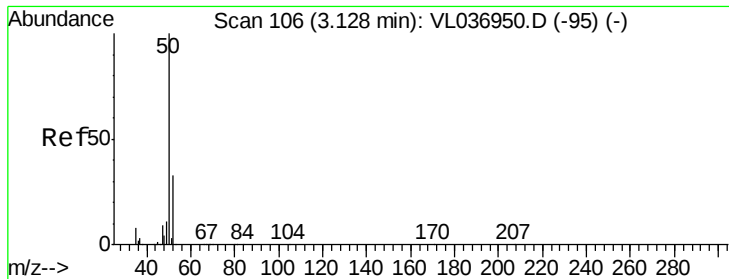


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.071 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

Instrument :

MSVOA_L

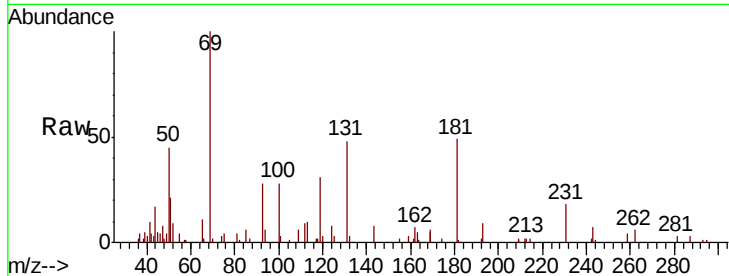
ClientSampled :

Tot Ion: 50 Resp: 5811

Ion Ratio Lower Upper

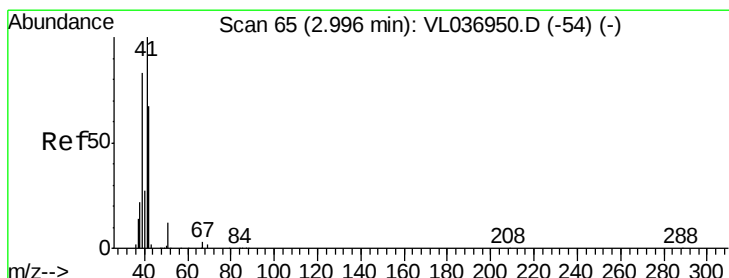
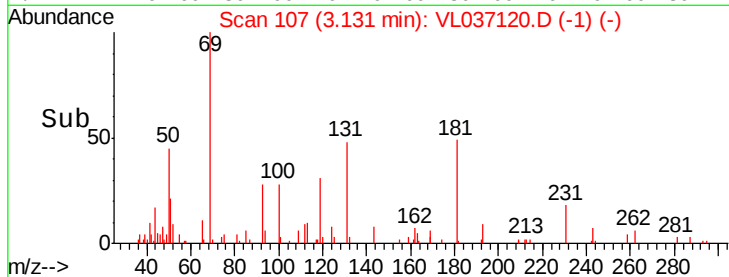
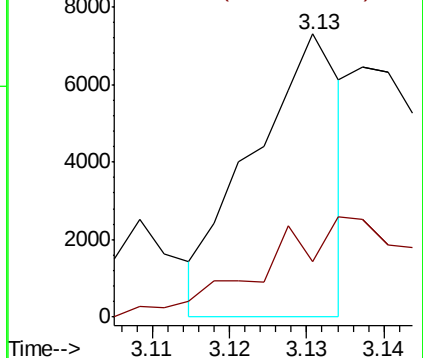
50 100

52 17.3 26.1 39.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.152 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.01 min

Lab File: VL037120.D

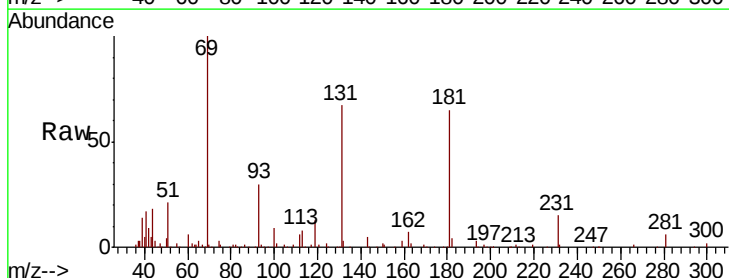
Acq: 3 Jun 2021 3:33

Tgt Ion: 41 Resp: 13111

Ion Ratio Lower Upper

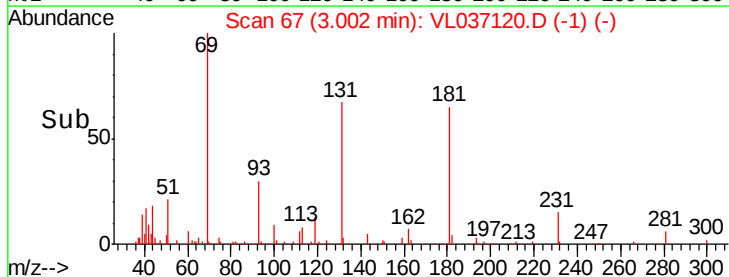
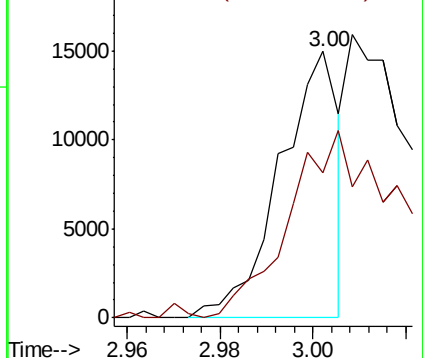
41 100

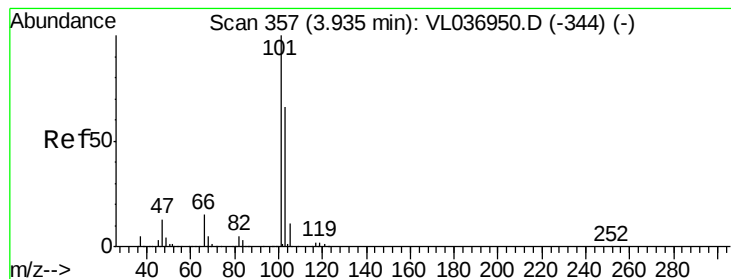
42 0.0 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#11

Trichlorofluoromethane

Concen: 0.380 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.01 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

Instrument :

MSVOA_L

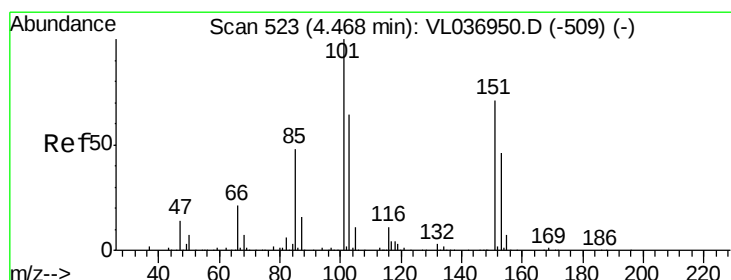
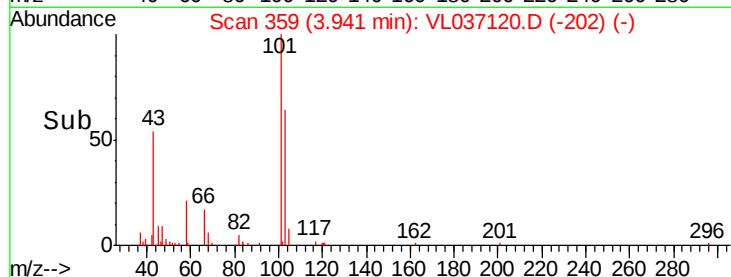
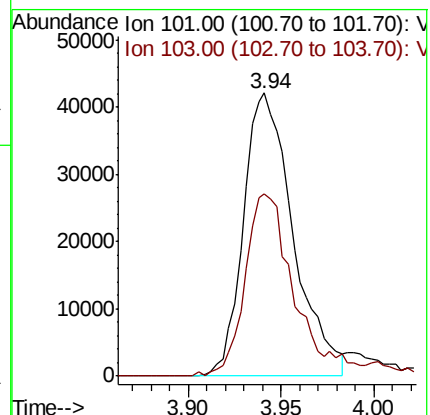
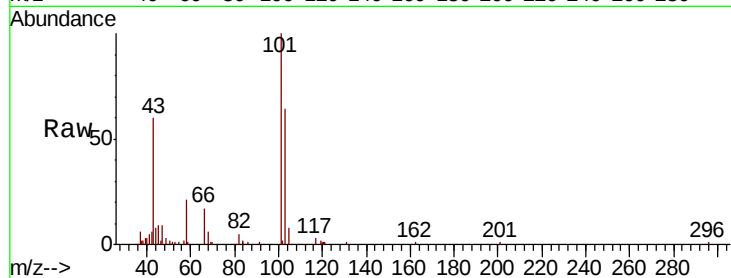
ClientSampleId :

Tot Ion:101 Resp: 78412

Ion Ratio Lower Upper

101 100

103 64.4 52.6 79.0



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.055 ppbv

RT: 4.47 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL037120.D

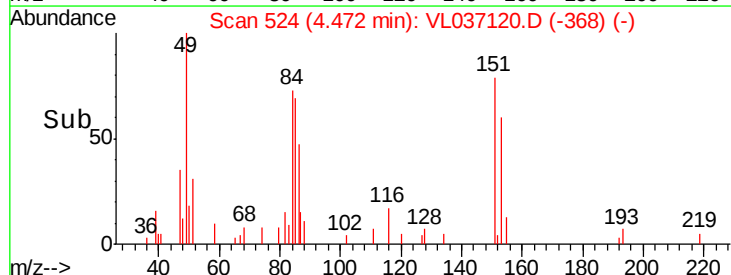
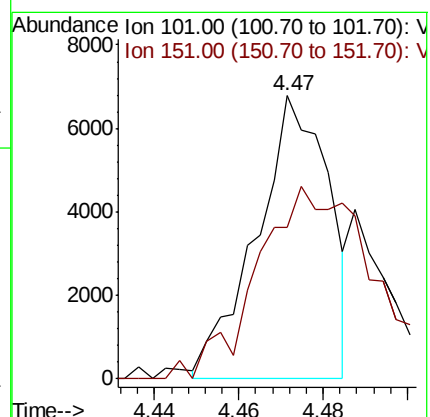
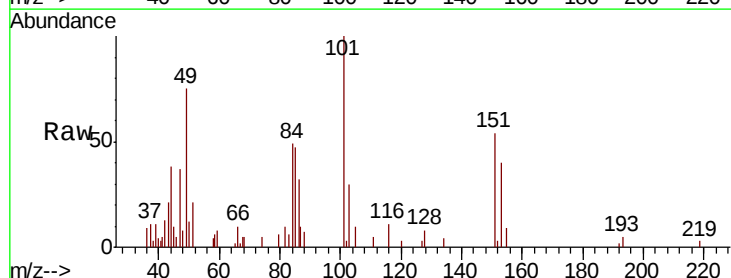
Acq: 3 Jun 2021 3:33

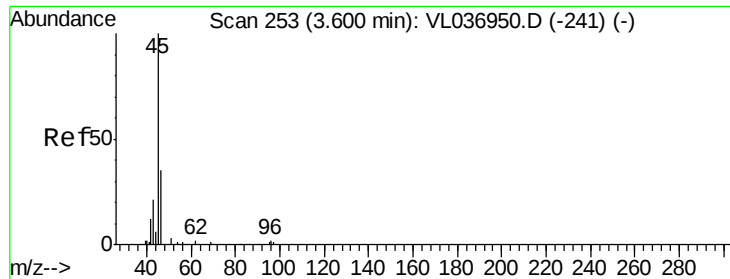
Tgt Ion:101 Resp: 8096

Ion Ratio Lower Upper

101 100

151 118.5 57.7 86.5#

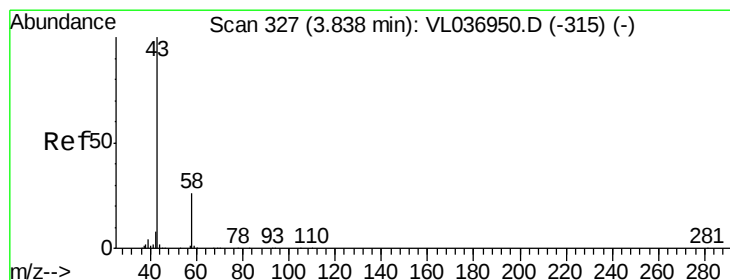
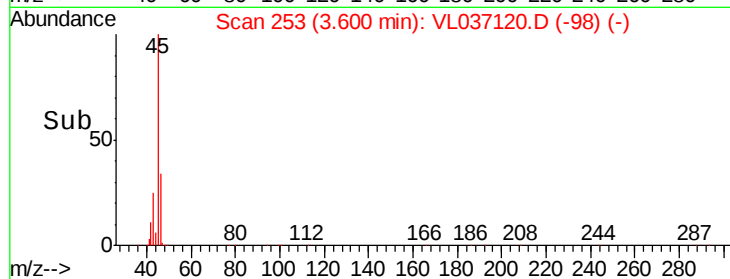
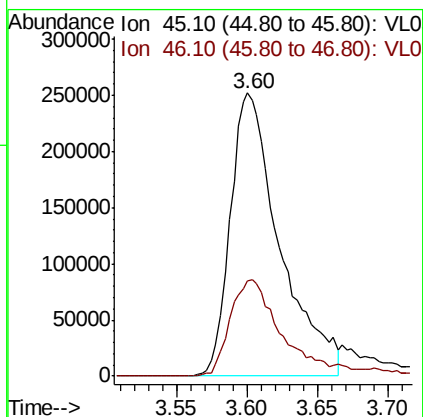
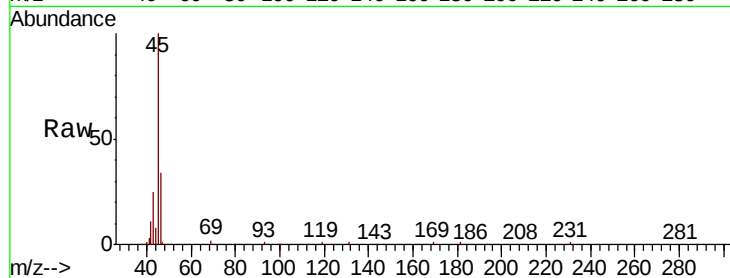




#13
Ethanol
Concen: 53.770 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.00 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

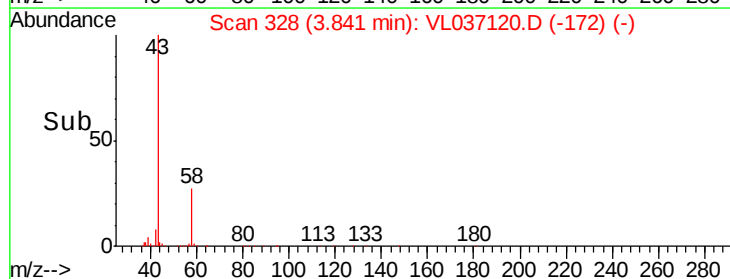
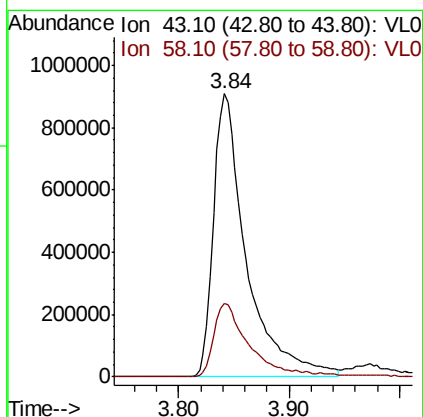
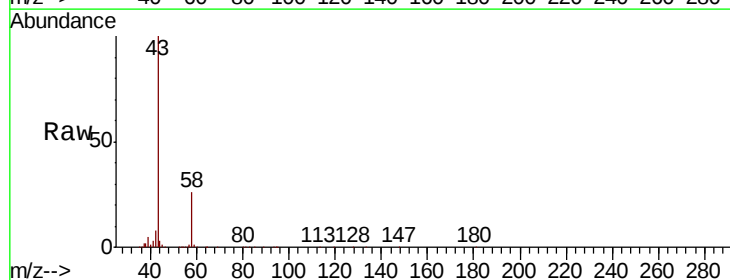
Instrument :
MSVOA_L
ClientSampleId :

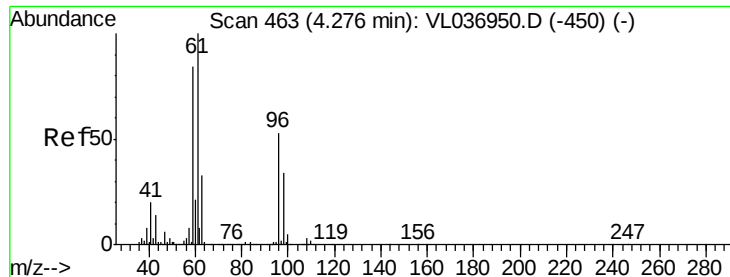
Tot Ion: 45 Resp: 617785
Ion Ratio Lower Upper
45 100
46 38.9 16.3 65.3



#15
Acetone
Concen: 13.915 ppbv
RT: 3.84 min Scan# 328
Delta R.T. 0.00 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

Tgt Ion: 43 Resp: 1870851
Ion Ratio Lower Upper
43 100
58 29.5 24.0 36.0



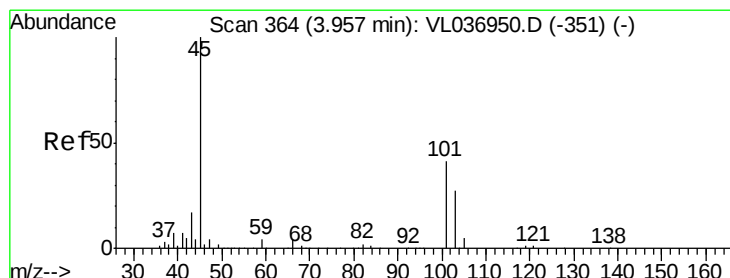
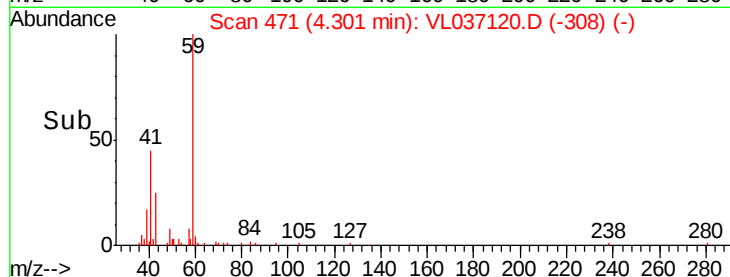
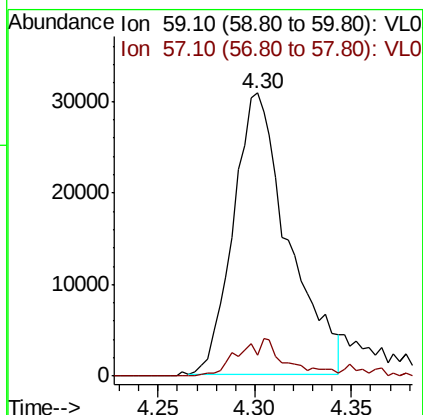
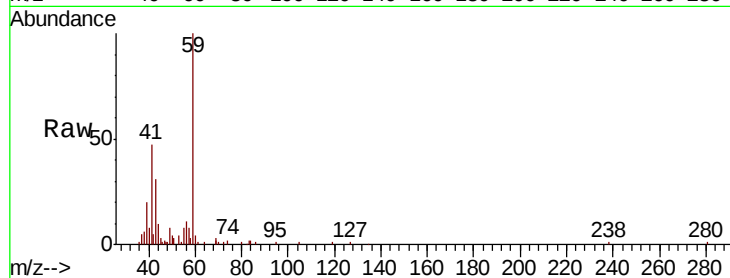


#17

tert-Butyl alcohol
 Concen: 0.495 ppbv
 RT: 4.30 min Scan# 471
 Delta R.T. 0.03 min
 Lab File: VL037120.D
 Acq: 3 Jun 2021 3:33

Instrument :
 MSVOA_L
 ClientSampled :

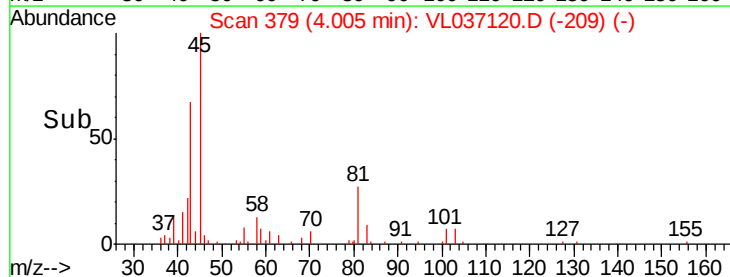
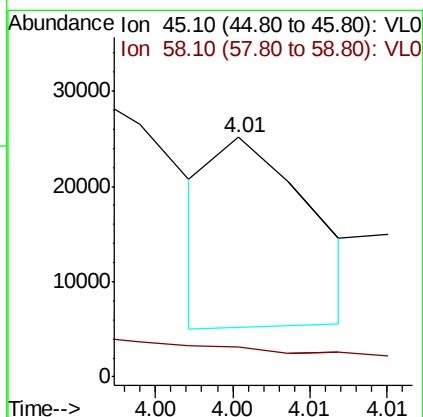
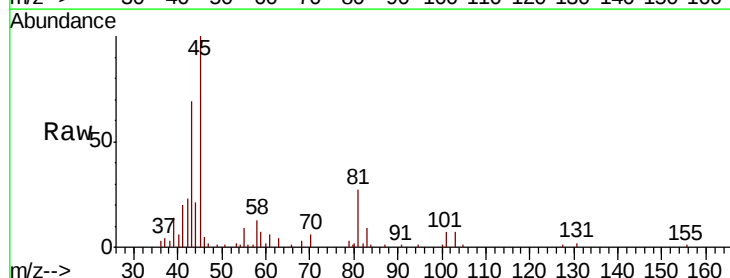
Tot Ion: 59 Resp: 61006
 Ion Ratio Lower Upper
 59 100
 57 11.5 8.3 12.5

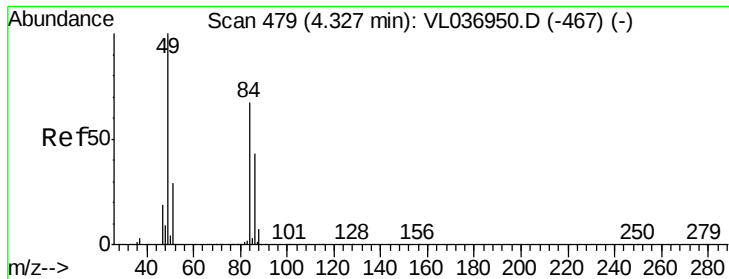


#19

Isopropyl Alcohol
 Concen: 0.118 ppbv
 RT: 4.01 min Scan# 379
 Delta R.T. 0.05 min
 Lab File: VL037120.D
 Acq: 3 Jun 2021 3:33

Tgt Ion: 45 Resp: 8520
 Ion Ratio Lower Upper
 45 100
 58 0.0 37.2 55.8#

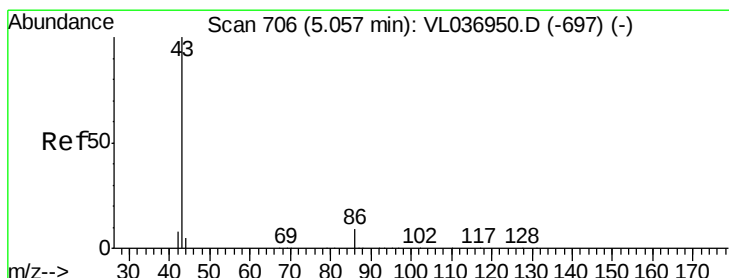
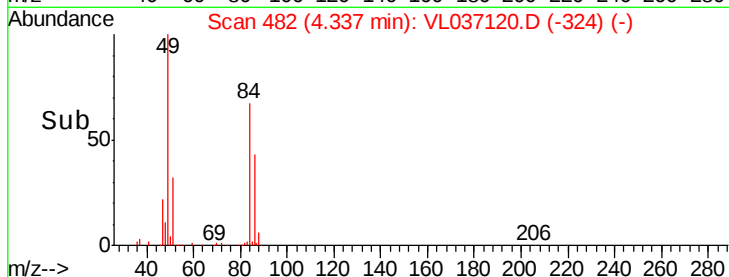
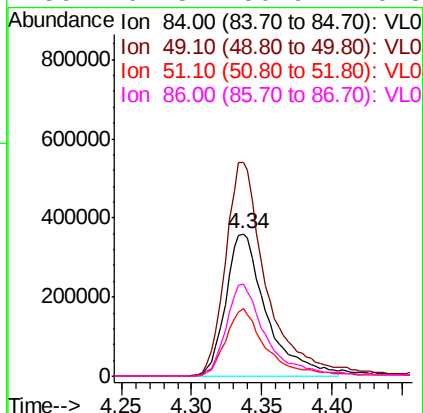
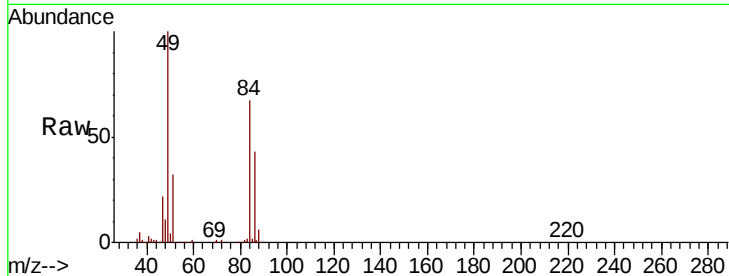




#20
Methylene Chloride
Concen: 10.059 ppbv
RT: 4.34 min Scan# 482
Delta R.T. 0.01 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

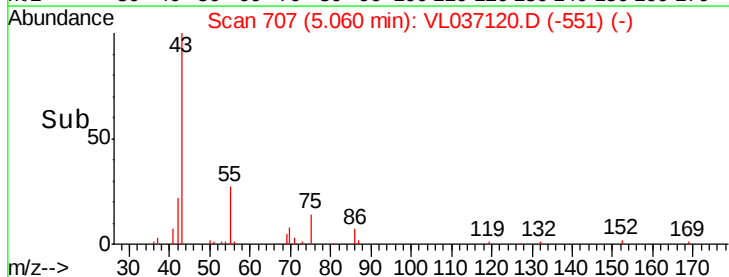
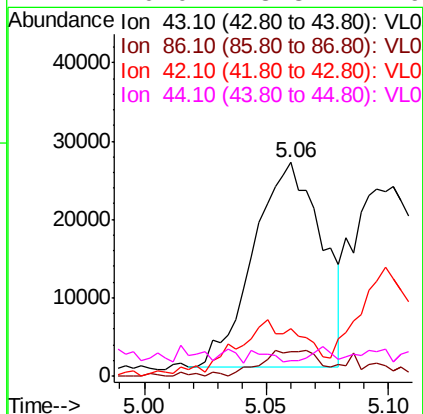
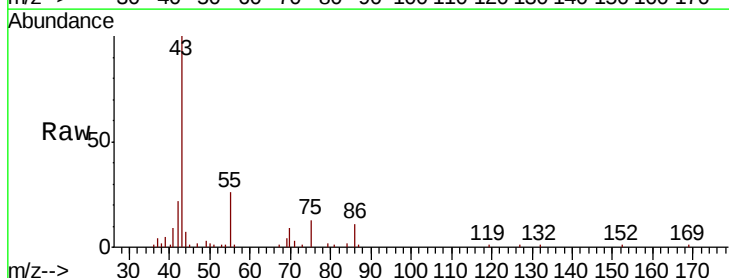
Instrument :
MSVOA_L
ClientSampleId :

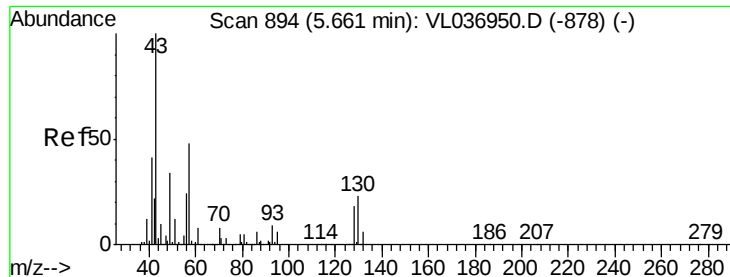
Tot Ion:	84	Resp:	724953
Ion	Ratio	Lower	Upper
84	100		
49	149.9	119.8	179.6
51	47.6	35.1	52.7
86	64.8	50.9	76.3



#23
Vinyl Acetate
Concen: 0.238 ppbv
RT: 5.06 min Scan# 707
Delta R.T. 0.00 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

Tgt Ion:	43	Resp:	50743
Ion	Ratio	Lower	Upper
43	100		
86	12.5	5.8	8.8#
42	20.0	7.4	11.2#
44	0.0	3.3	4.9#

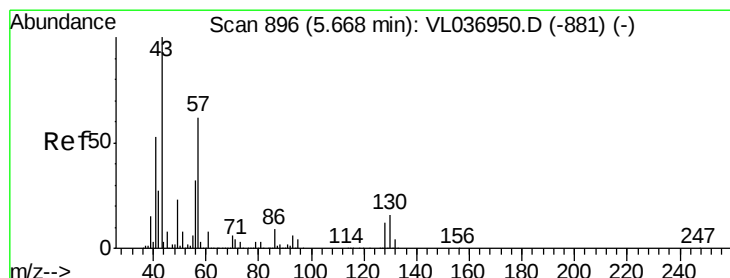
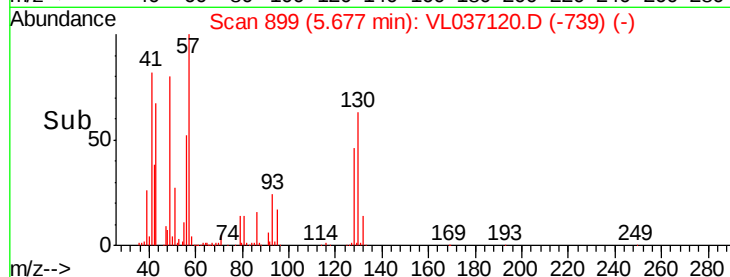
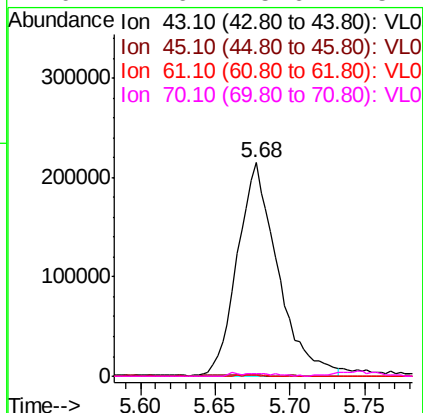
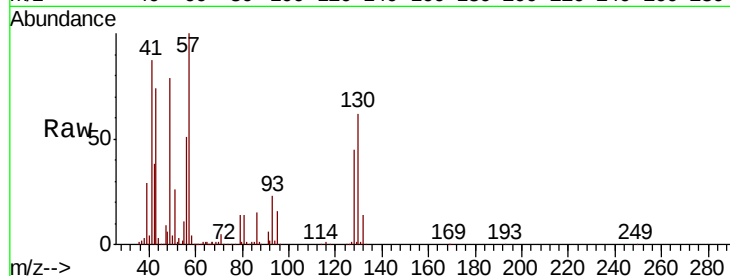




#25
Ethyl Acetate
Concen: 1.248 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.02 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

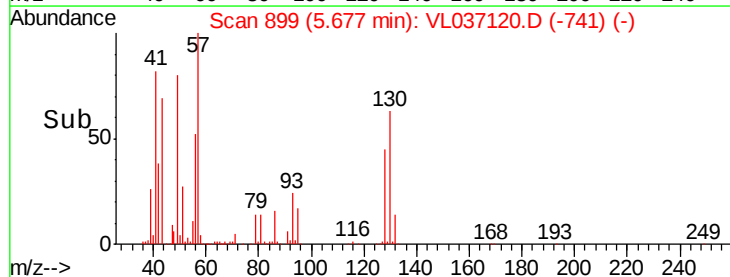
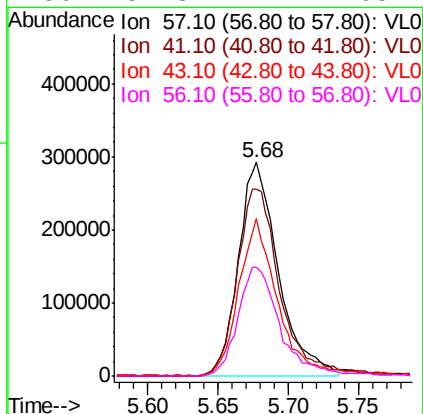
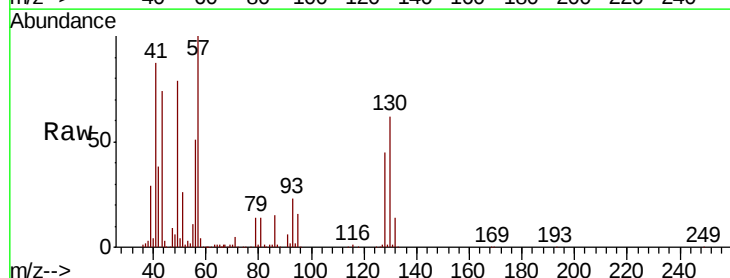
Instrument :
MSVOA_L
ClientSampleId :

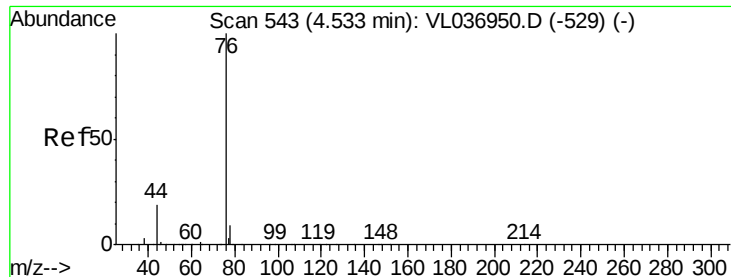
Tot Ion:	43	Resp:	403078
Ion	Ratio	Lower	Upper
43	100		
45	0.9	7.8	11.8#
61	0.5	7.8	11.8#
70	1.6	5.6	8.4#



#26
Hexane
Concen: 3.516 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

Tgt Ion:	57	Resp:	580299
Ion	Ratio	Lower	Upper
57	100		
41	95.4	70.5	105.7
43	71.6	165.8	248.8#
56	54.3	42.2	63.4





#27

Carbon Disulfide

Concen: 0.055 ppbv

RT: 4.55 min Scan# 547

Delta R.T. 0.01 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

Instrument :

MSVOA_L

ClientSampleId :

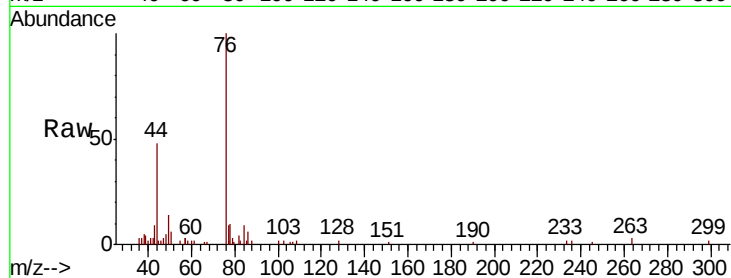
Tot Ion: 76 Resp: 9106

Ion Ratio Lower Upper

76 100

44 91.0 15.5 23.3#

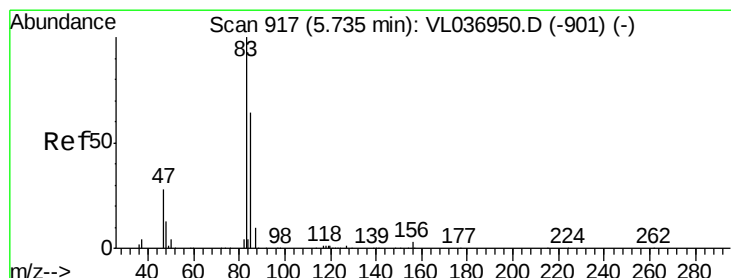
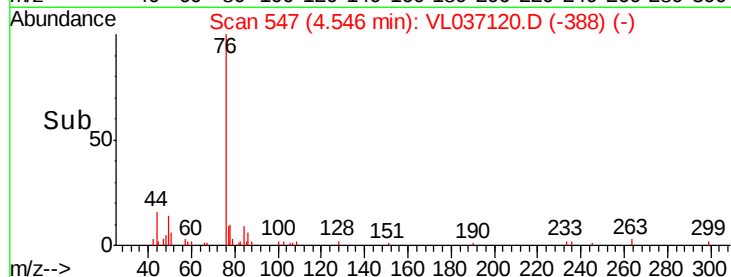
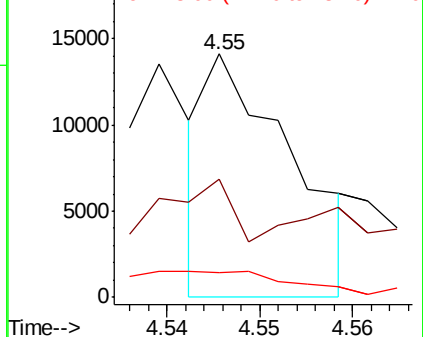
78 0.0 7.8 11.6#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#29

Chloroform

Concen: 4.583 ppbv

RT: 5.74 min Scan# 919

Delta R.T. 0.01 min

Lab File: VL037120.D

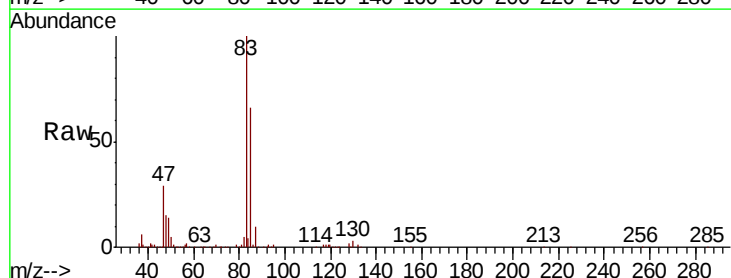
Acq: 3 Jun 2021 3:33

Tgt Ion: 83 Resp: 1068748

Ion Ratio Lower Upper

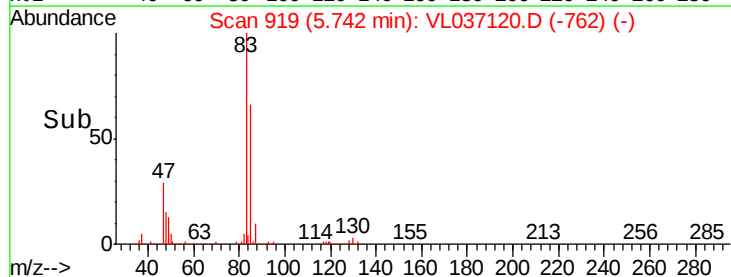
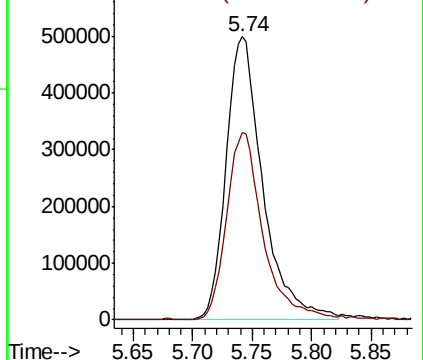
83 100

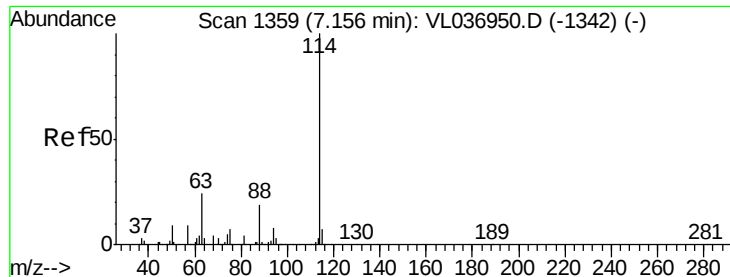
85 65.9 51.1 76.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

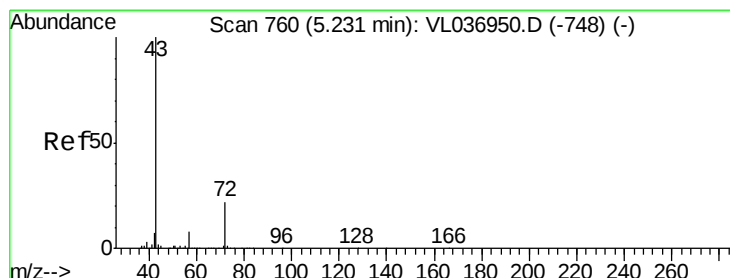
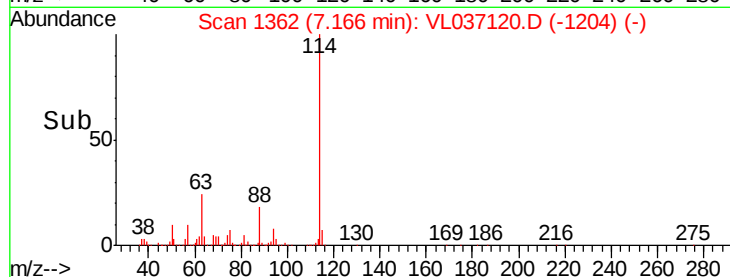
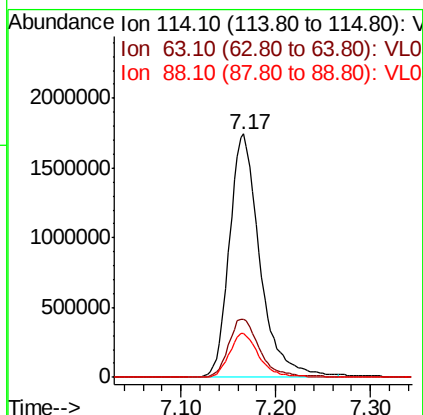
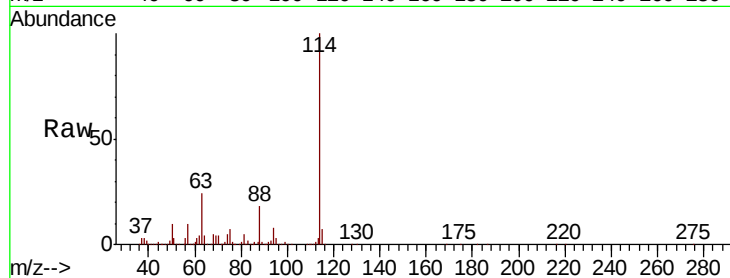




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. 0.01 min
 Lab File: VL037120.D
 Acq: 3 Jun 2021 3:33

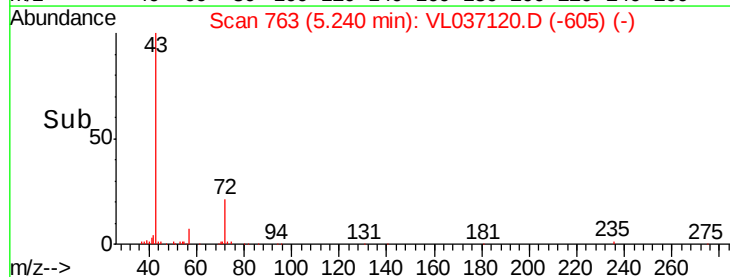
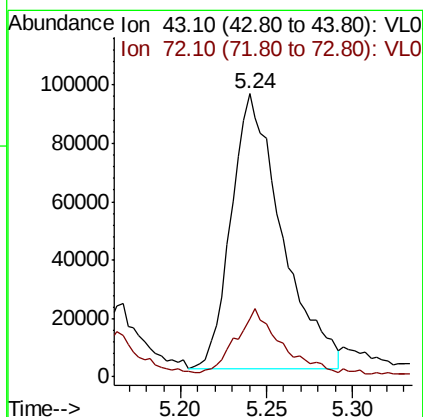
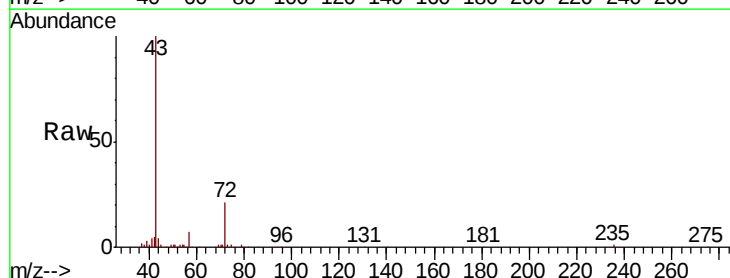
Instrument :
 MSVOA_L
 ClientSampleId :

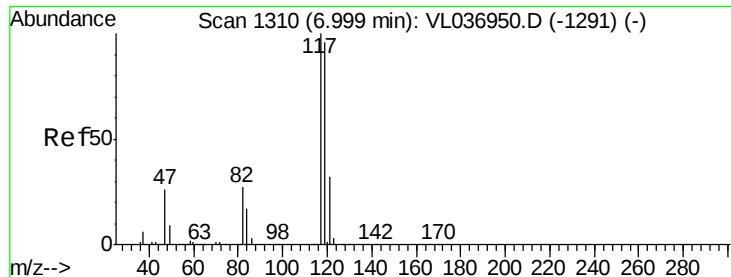
Tot Ion:114 Resp: 3921385
 Ion Ratio Lower Upper
 114 100
 63 24.6 19.6 29.4
 88 17.9 14.6 21.8



#34
 2-Butanone
 Concen: 1.348 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: VL037120.D
 Acq: 3 Jun 2021 3:33

Tgt Ion: 43 Resp: 192409
 Ion Ratio Lower Upper
 43 100
 72 26.8 19.0 28.4





#35

Carbon Tetrachloride

Concen: 0.085 ppbv

RT: 7.01 min Scan# 1313

Delta R.T. 0.01 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

Instrument :

MSVOA_L

ClientSampleId :

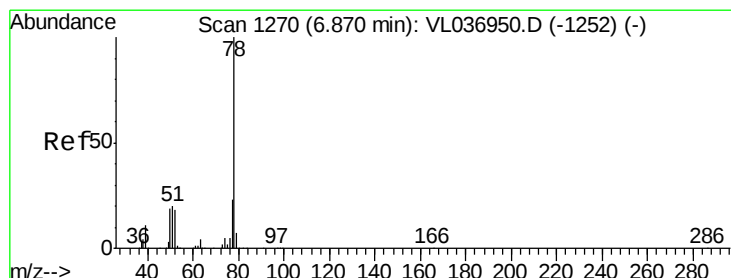
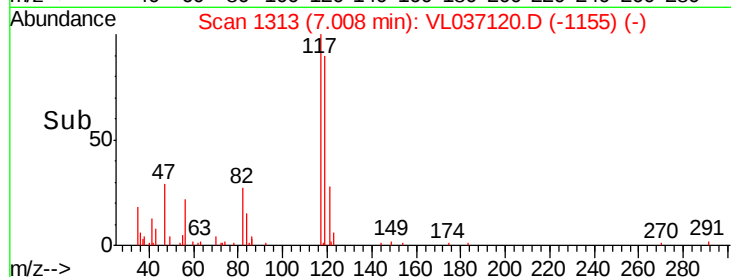
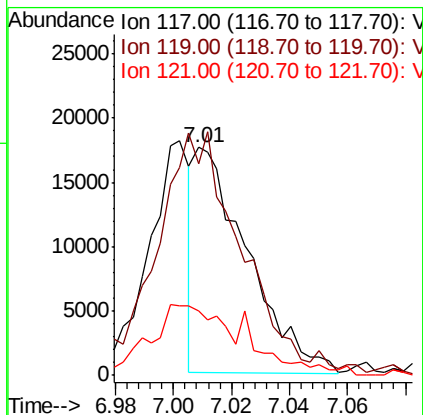
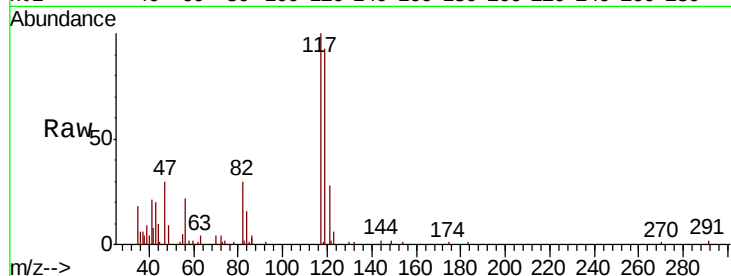
Tot Ion:117 Resp: 22239

Ion Ratio Lower Upper

117 100

119 91.9 76.6 114.8

121 26.2 25.8 38.6



#36

Benzene

Concen: 0.039 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

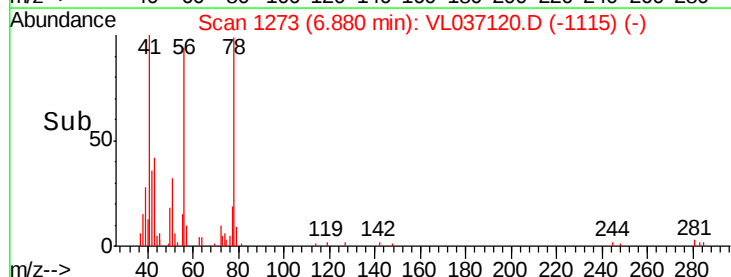
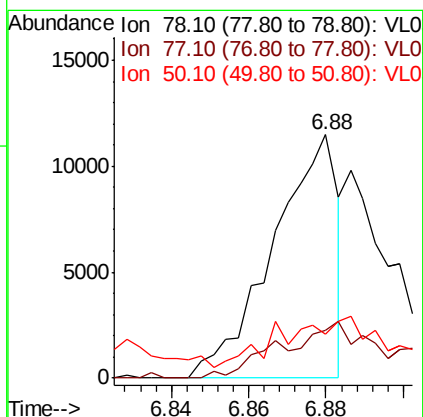
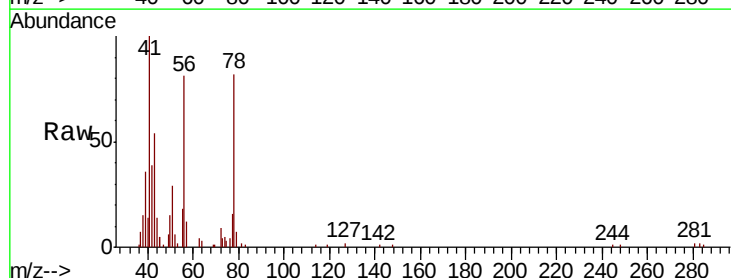
Tgt Ion: 78 Resp: 13319

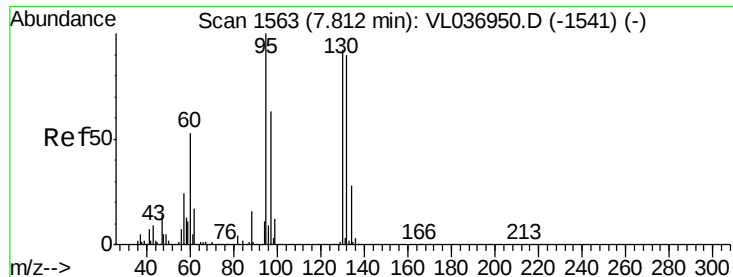
Ion Ratio Lower Upper

78 100

77 19.5 18.6 28.0

50 10.5 15.0 22.4#



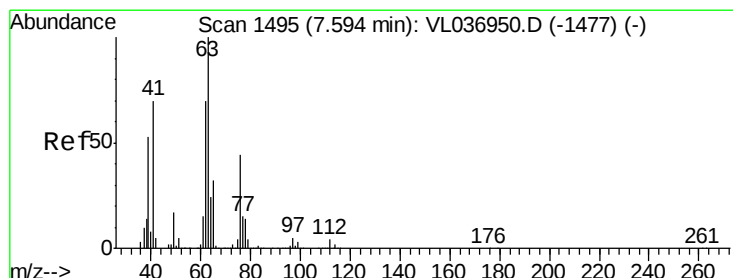
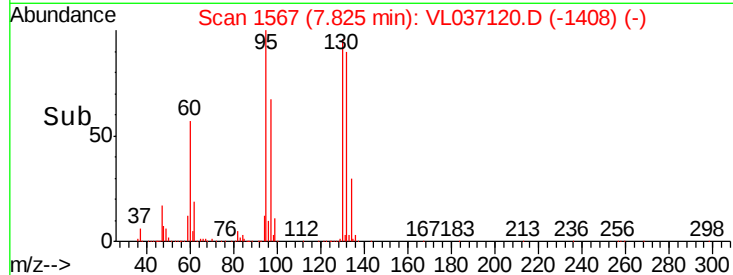
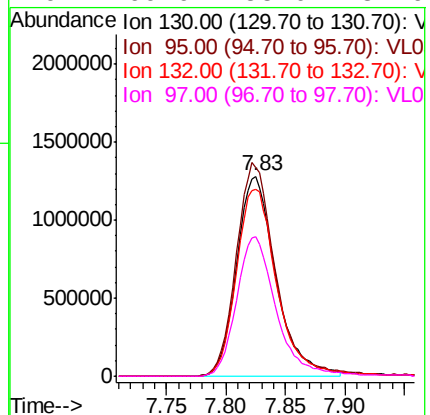
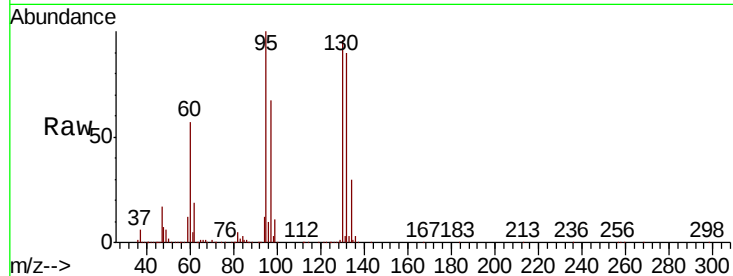


#38
 Trichloroethene
 Concen: 20.246 ppbv
 RT: 7.83 min Scan# 1567
 Delta R.T. 0.01 min
 Lab File: VL037120.D
 Acq: 3 Jun 2021 3:33

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:130 Resp: 2925410

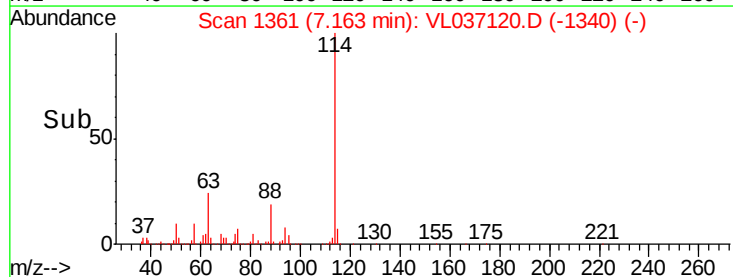
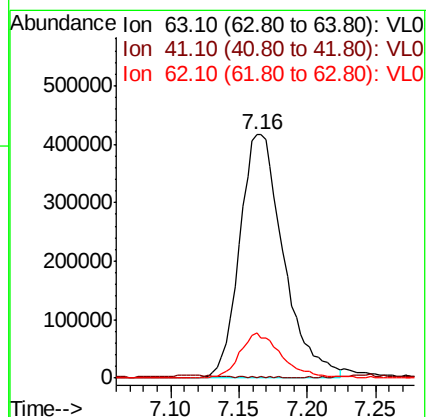
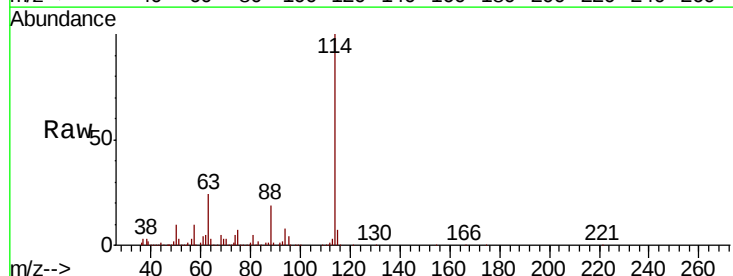
Ion	Ratio	Lower	Upper
130	100		
95	104.2	86.9	130.3
132	93.6	78.4	117.6
97	69.9	55.0	82.6

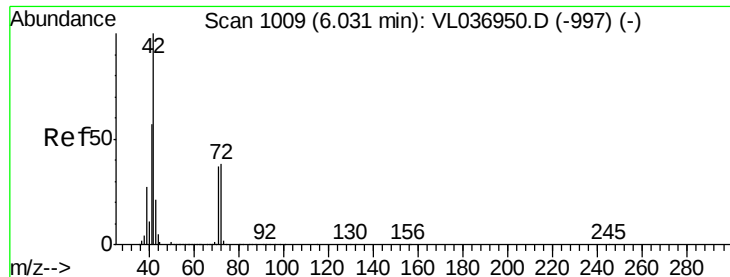


#39
 1,2-Dichloropropane
 Concen: 7.148 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.43 min
 Lab File: VL037120.D
 Acq: 3 Jun 2021 3:33

Tgt Ion: 63 Resp: 930135

Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.7	83.5#
62	18.8	56.2	84.4#





#41

Tetrahydrofuran

Concen: 1.363 ppbv

RT: 6.05 min Scan# 1014

Delta R.T. 0.02 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

Instrument :

MSVOA_L

ClientSampled :

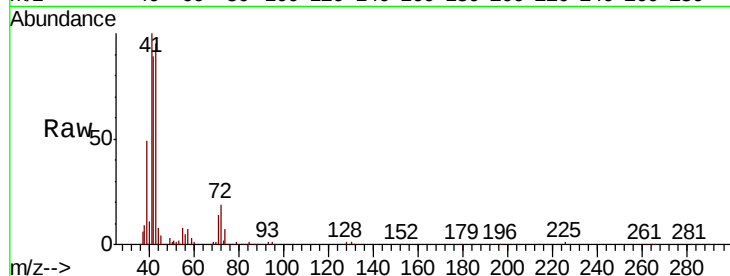
Tot Ion: 42 Resp: 110828

Ion Ratio Lower Upper

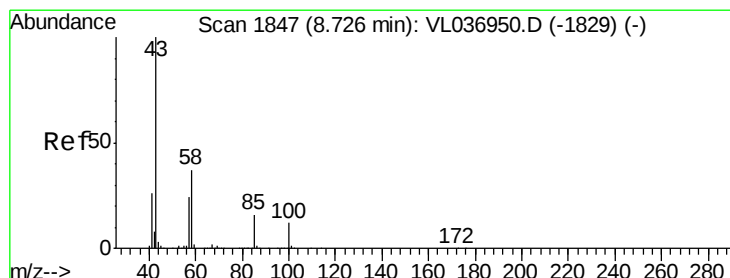
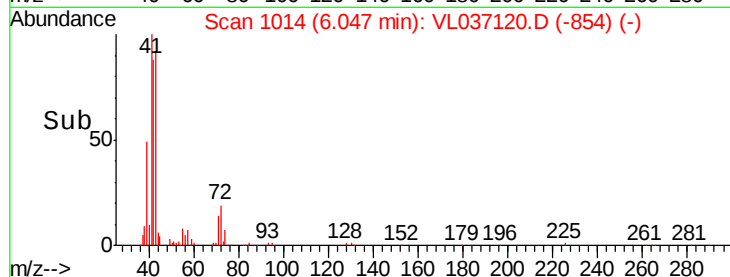
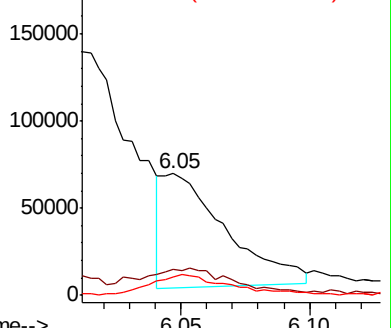
42 100

72 43.2 31.4 47.2

71 25.1 30.4 45.6#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#50

4-Methyl-2-Pentanone

Concen: 0.071 ppbv

RT: 8.75 min Scan# 1855

Delta R.T. 0.03 min

Lab File: VL037120.D

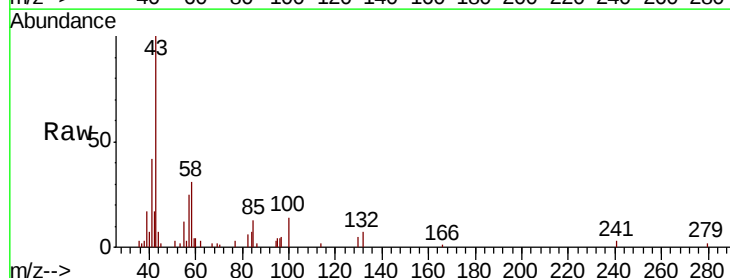
Acq: 3 Jun 2021 3:33

Tgt Ion: 43 Resp: 16796

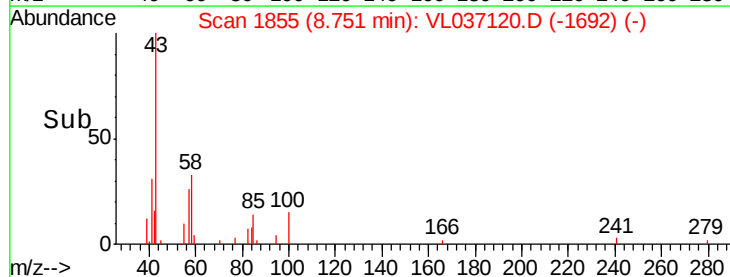
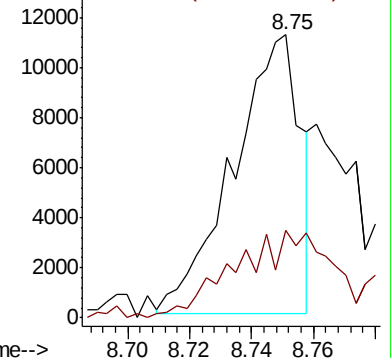
Ion Ratio Lower Upper

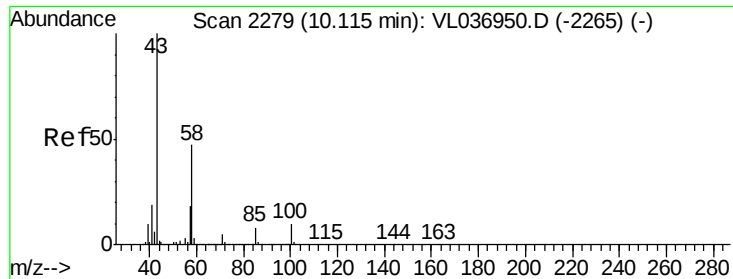
43 100

58 55.4 29.4 44.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0

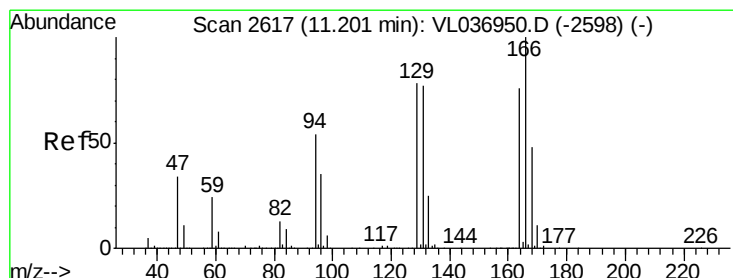
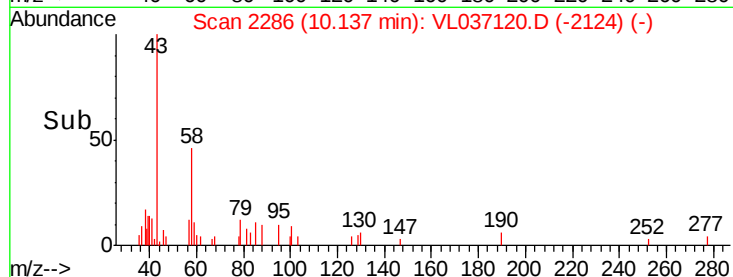
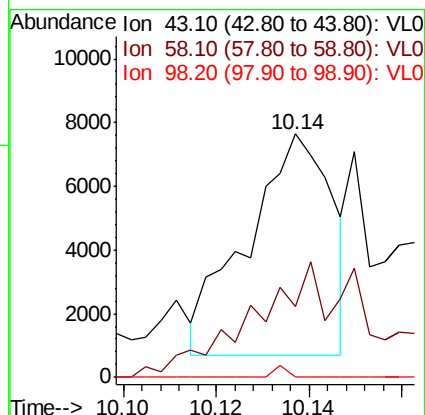
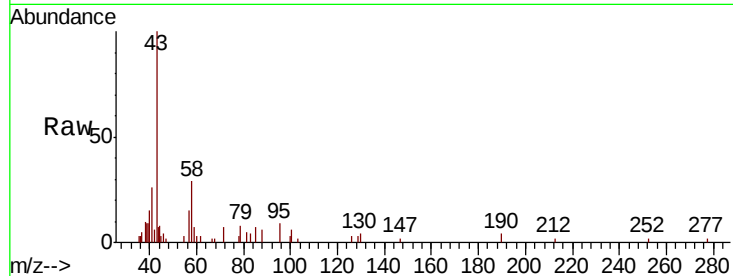




#51
2-Hexanone
Concen: 0.071 ppbv
RT: 10.14 min Scan# 2286
Delta R.T. 0.02 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

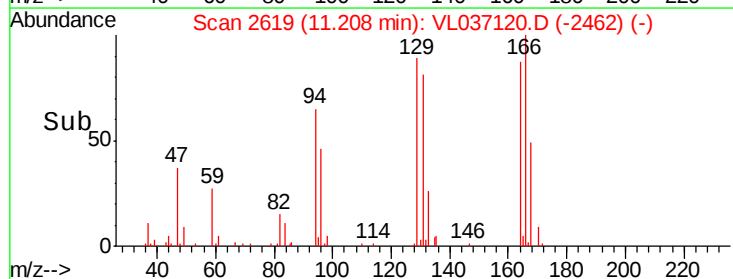
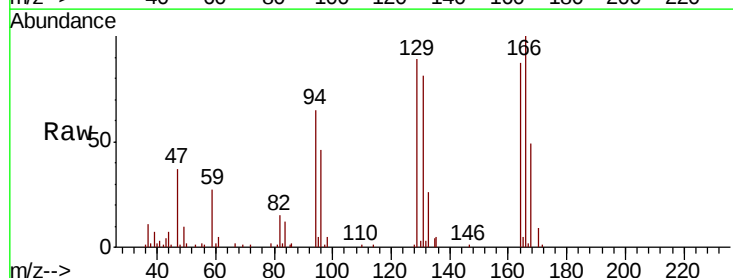
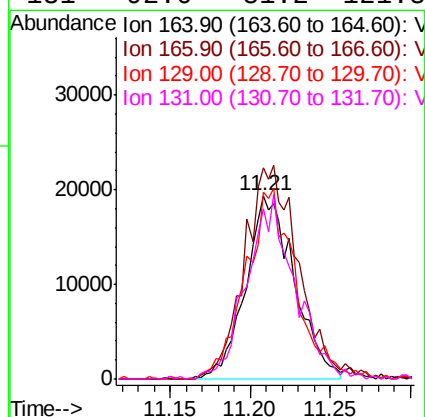
Instrument :
MSVOA_L
ClientSampleId :

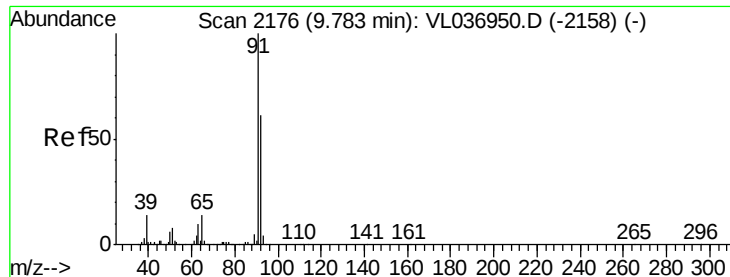
Tot Ion: 43 Resp: 8803
Ion Ratio Lower Upper
43 100
58 94.4 41.1 61.7#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.301 ppbv
RT: 11.21 min Scan# 2619
Delta R.T. 0.01 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

Tgt Ion: 164 Resp: 40467
Ion Ratio Lower Upper
164 100
166 115.0 105.5 158.3
129 101.9 81.8 122.8
131 92.0 81.2 121.8





#53

Toluene

Concen: 0.418 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. 0.02 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

Instrument :

MSVOA_L

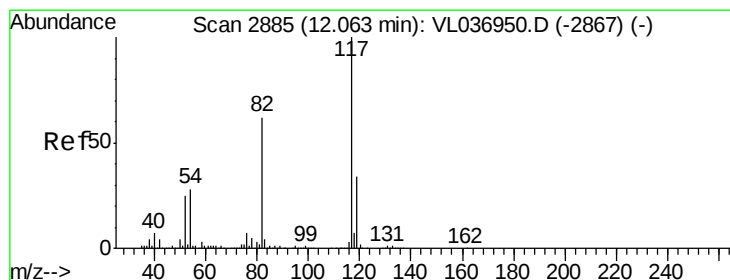
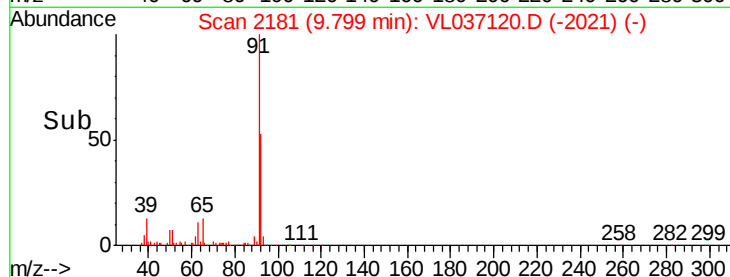
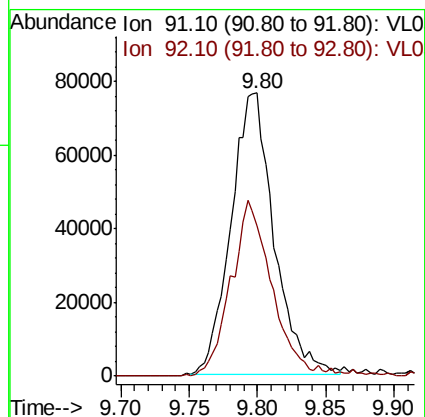
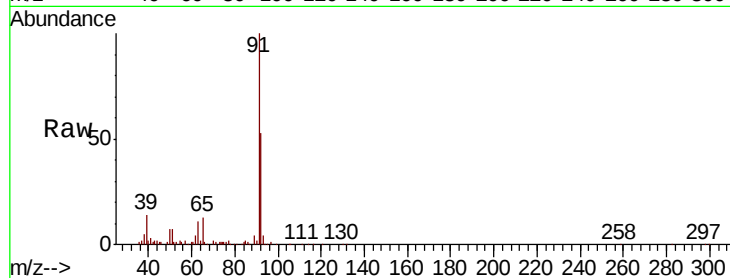
ClientSampleId :

Tot Ion: 91 Resp: 168151

Ion Ratio Lower Upper

91 100

92 60.3 49.5 74.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. 0.01 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

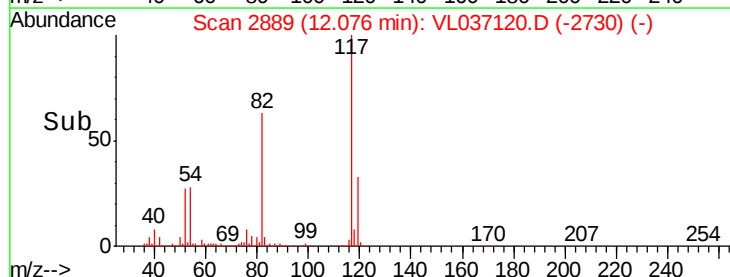
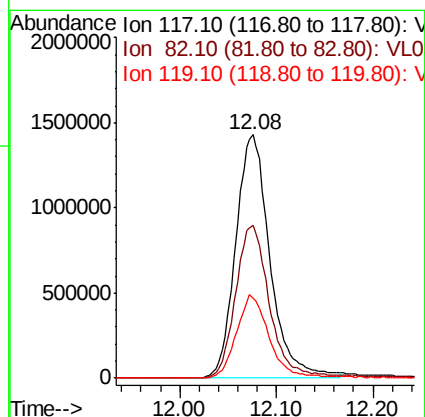
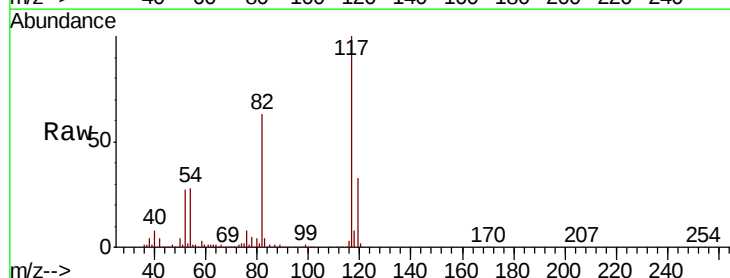
Tgt Ion: 117 Resp: 3527122

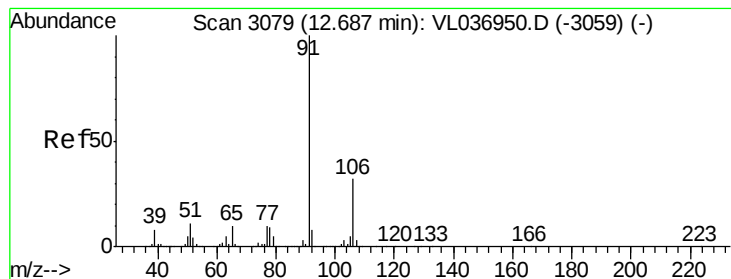
Ion Ratio Lower Upper

117 100

82 63.5 52.6 79.0

119 33.3 46.6 70.0#





#58

Ethyl Benzene

Concen: 1.189 ppbv

RT: 12.70 min Scan# 3083

Delta R.T. 0.01 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

Instrument :

MSVOA_L

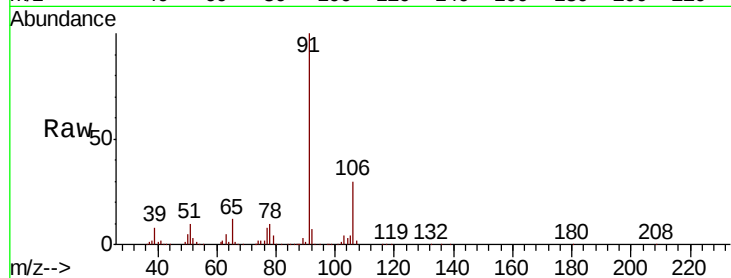
ClientSampleId :

Tot Ion: 91 Resp: 591791

Ion Ratio Lower Upper

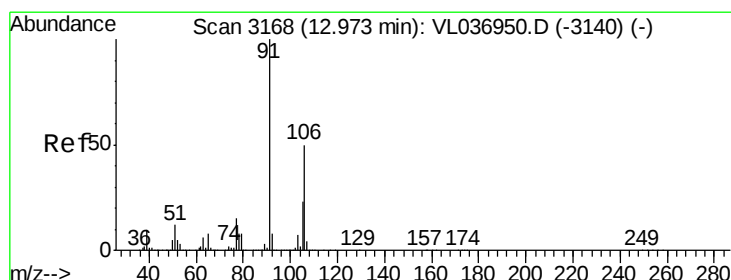
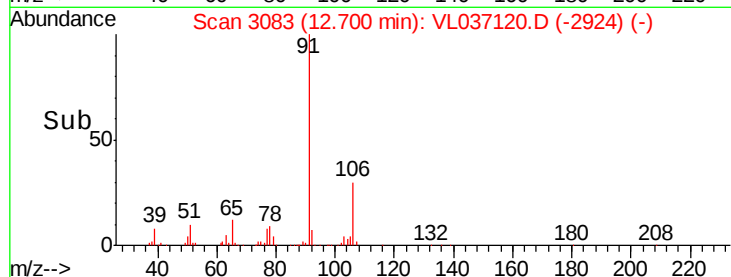
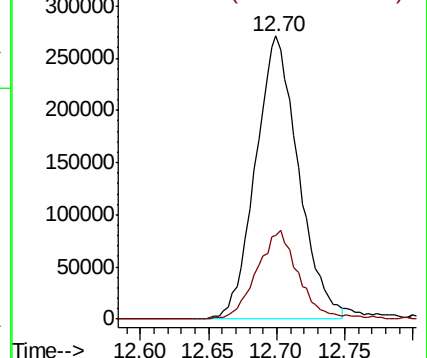
91 100

106 29.8 25.6 38.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 3.792 ppbv

RT: 12.95 min Scan# 3162

Delta R.T. -0.02 min

Lab File: VL037120.D

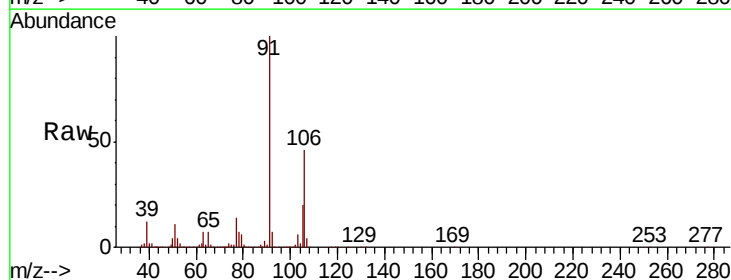
Acq: 3 Jun 2021 3:33

Tgt Ion: 91 Resp: 1560361

Ion Ratio Lower Upper

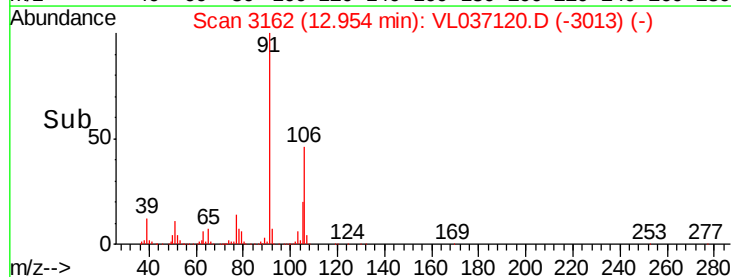
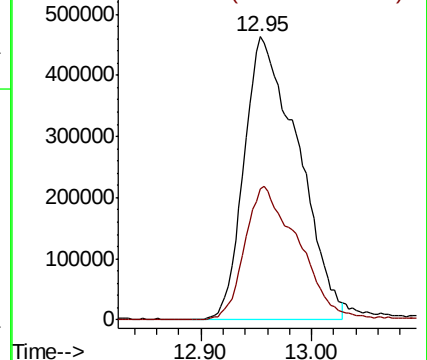
91 100

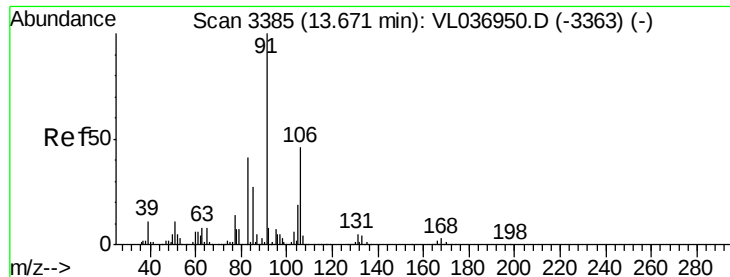
106 47.7 37.4 56.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

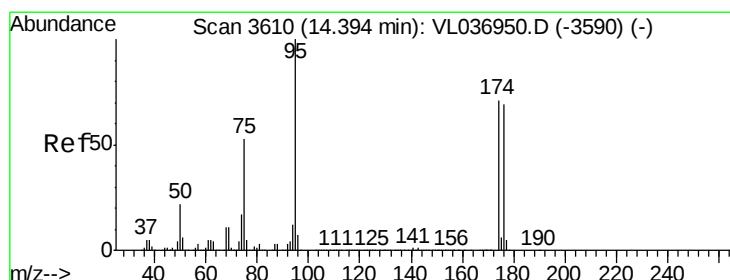
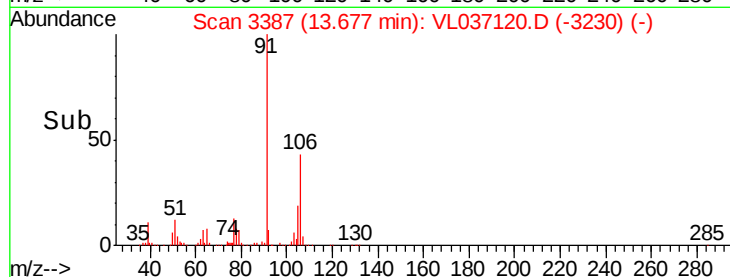
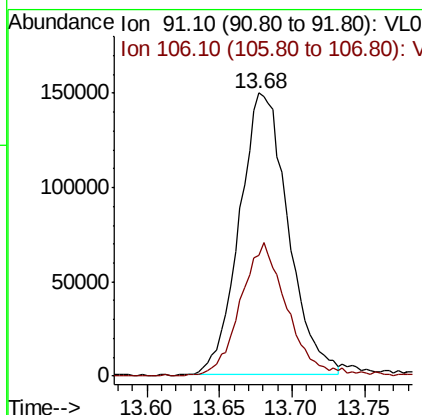
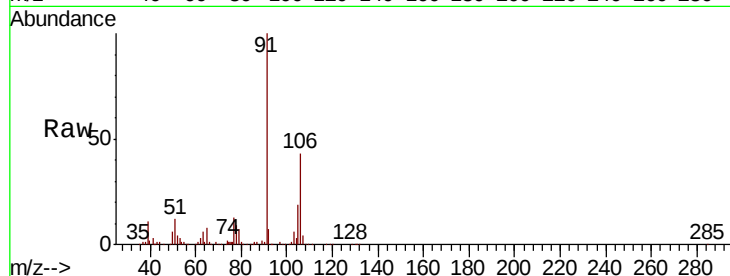




#60
o-Xylene
Concen: 0.887 ppbv
RT: 13.68 min Scan# 3387
Delta R.T. 0.01 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

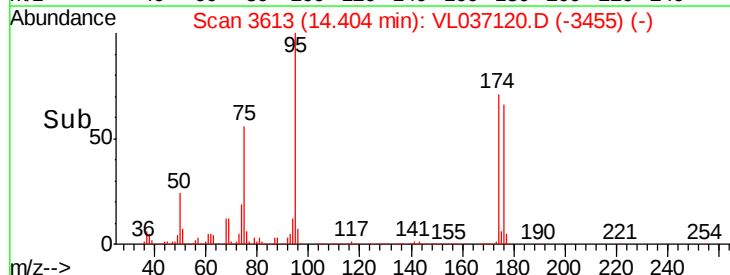
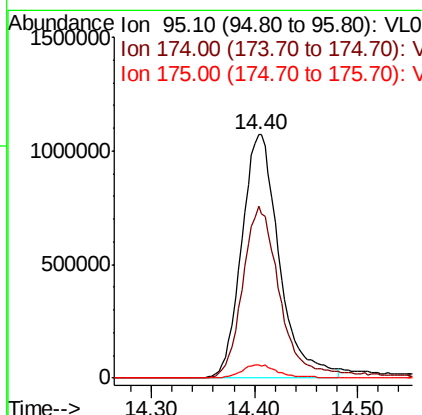
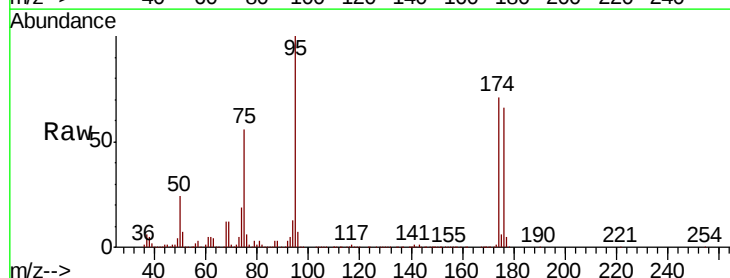
Instrument :
MSVOA_L
ClientSampleId :

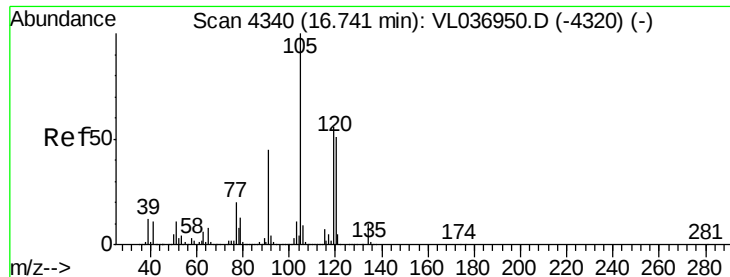
Tot Ion: 91 Resp: 347994
Ion Ratio Lower Upper
91 100
106 45.8 23.4 70.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.249 ppbv
RT: 14.40 min Scan# 3613
Delta R.T. 0.01 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

Tgt Ion: 95 Resp: 2715533
Ion Ratio Lower Upper
95 100
174 73.1 58.4 87.6
175 5.3 4.4 6.6





#74

1,2,4-Trimethylbenzene

Concen: 0.055 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. 0.01 min

Lab File: VL037120.D

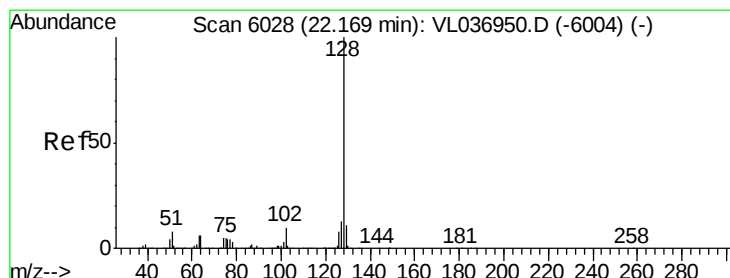
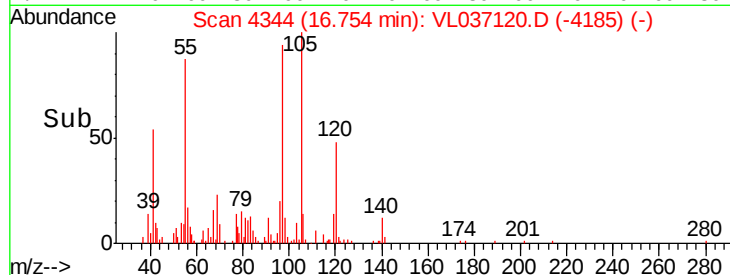
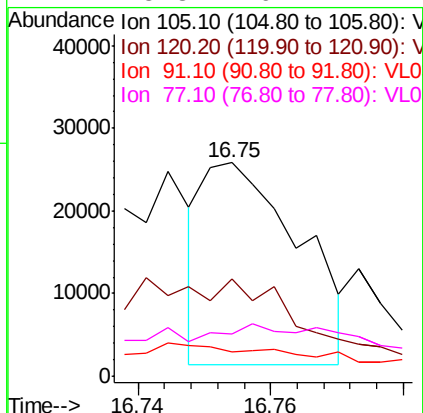
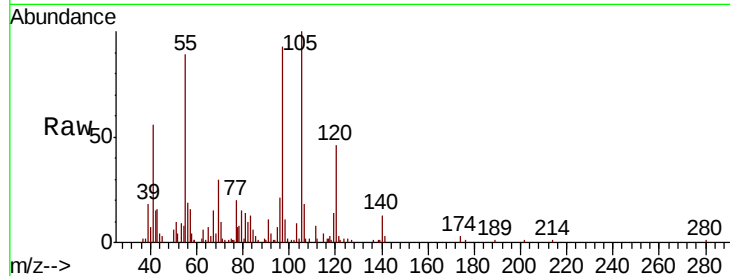
Acq: 3 Jun 2021 3:33

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105	Resp:	24667
Ion Ratio	Lower	Upper
105	100	
120	46.1	40.6 61.0
91	0.4	37.4 56.0#
77	5.3	16.2 24.4#



#79

Naphthalene

Concen: 0.042 ppbv

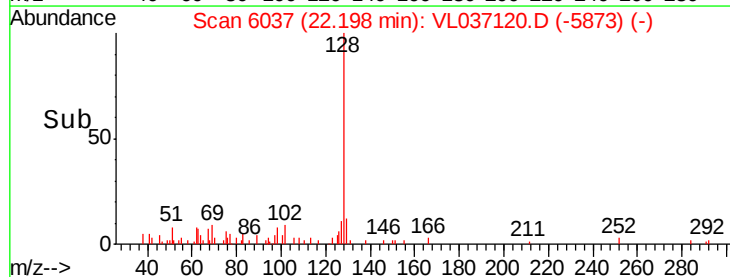
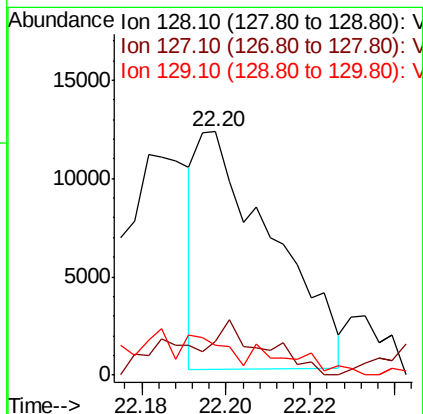
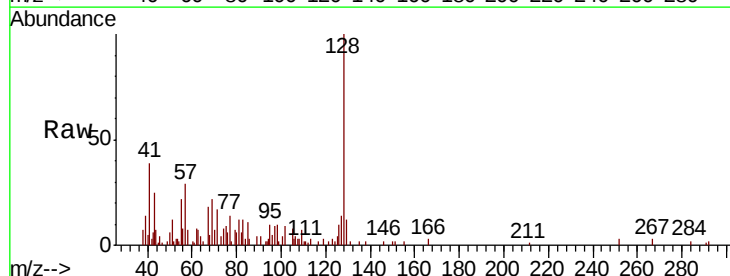
RT: 22.20 min Scan# 6037

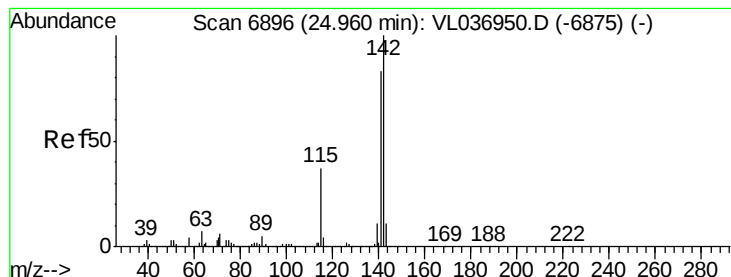
Delta R.T. 0.03 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

Tgt Ion:128	Resp:	14857
Ion Ratio	Lower	Upper
128	100	
127	16.7	10.4 15.6#
129	10.1	9.0 13.6





#80

Naphthalene, 2-methyl-

Concen: 0.090 ppbv

RT: 24.97 min Scan# 6900

Delta R.T. 0.01 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

Instrument :

MSVOA_L

ClientSampleId :

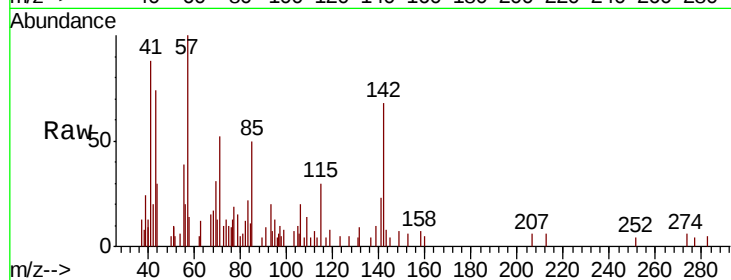
Tot Ion:142 Resp: 6917

Ion Ratio Lower Upper

142 100

141 62.8 69.3 103.9#

115 70.4 29.1 43.7#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

