

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091621\
 Data File : VL037630.D
 Acq On : 17 Sep 2021 00:42
 Operator : SY/AP
 Sample : M3780-04DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 17 05:29:54 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1575990	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4445412	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3859482	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2689021	9.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%

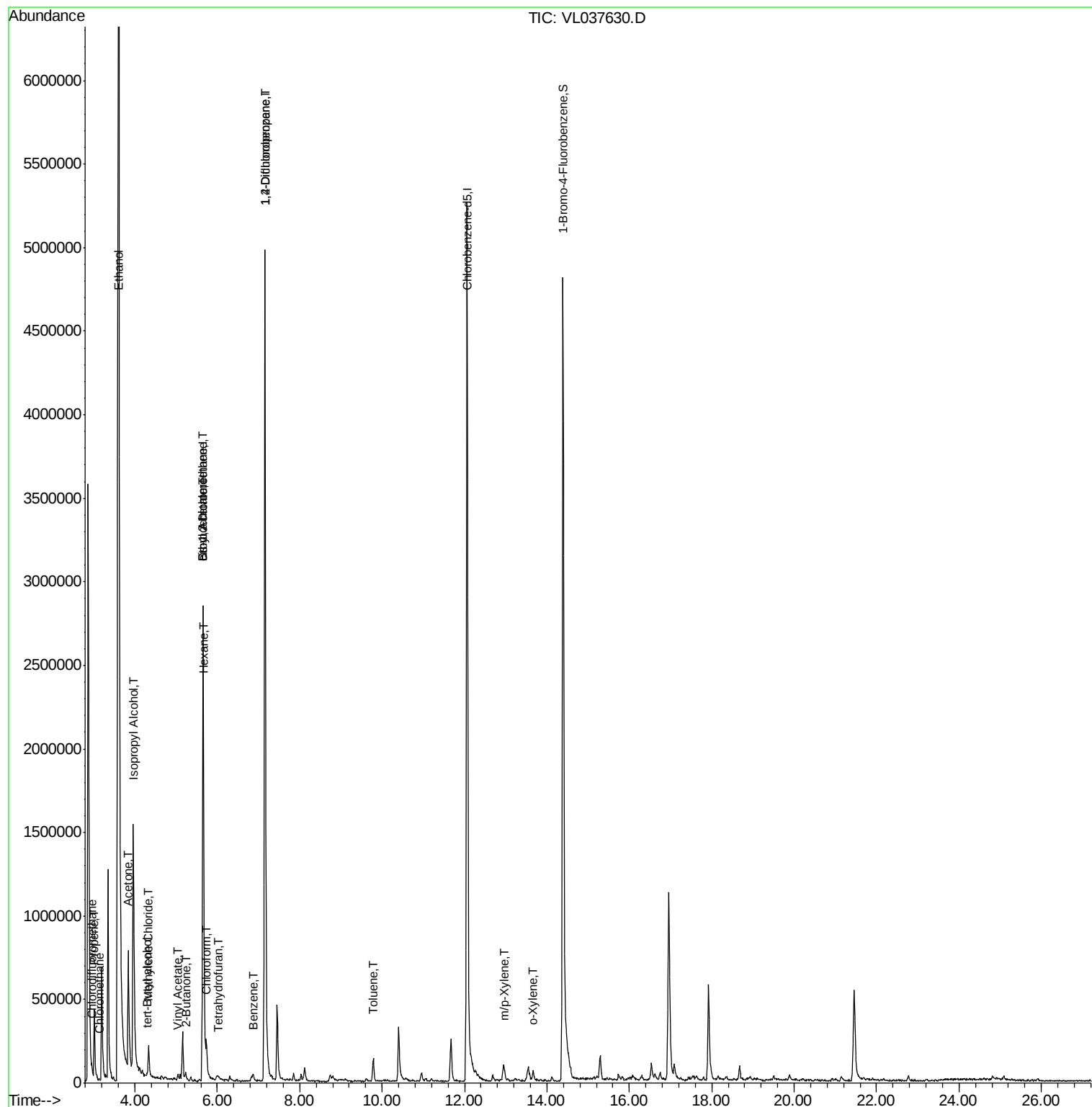
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.95	51	65140	0.219	ppbv #	67
4) Chloromethane	3.13	50	7131	0.065	ppbv #	73
9) Propene	3.01	41	107592	1.026	ppbv #	70
13) Ethanol	3.59	45	13754826	1341.064	ppbv	94
15) Acetone	3.83	43	901225	5.504	ppbv	98
17) tert-Butyl alcohol	4.28	59	4218	0.030	ppbv #	9
19) Isopropyl Alcohol	3.96	45	2135562	23.970	ppbv #	94
20) Methylene Chloride	4.33	84	62903	0.805	ppbv #	95
23) Vinyl Acetate	5.05	43	8890	0.039	ppbv #	82
25) Ethyl Acetate	5.66	43	100105	0.252	ppbv #	71
26) Hexane	5.67	57	67822	0.360	ppbv #	80
29) Chloroform	5.74	83	89109	0.324	ppbv	94
31) cis-1,2-Dichloroethene	5.66	61	12849	0.075	ppbv #	27
34) 2-Butanone	5.23	43	52439	0.290	ppbv #	74
36) Benzene	6.87	78	27154	0.073	ppbv #	92
39) 1,2-Dichloropropane	7.15	63	1036036	7.297	ppbv #	28
41) Tetrahydrofuran	6.04	42	3581	0.042	ppbv #	48
53) Toluene	9.78	91	70660	0.171	ppbv #	58
59) m/p-Xylene	12.96	91	39117	0.088	ppbv #	31
60) o-Xylene	13.66	91	24097	0.057	ppbv #	24

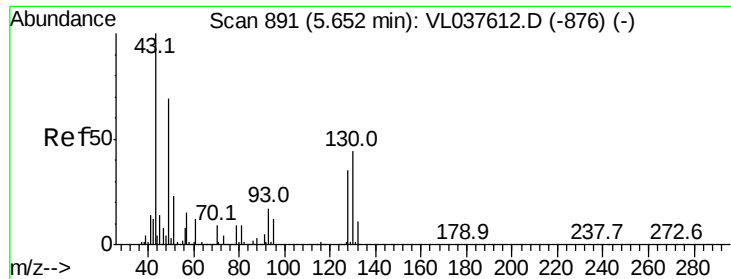
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL037630.D

Acq: 17 Sep 2021 00:42

Instrument :

MSVOA_L

ClientSampleId :

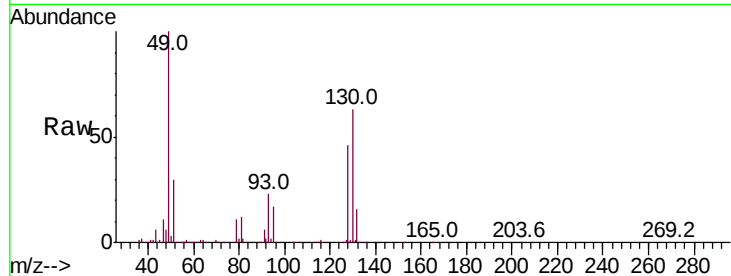
Tot Ion: 49 Resp: 1575990

Ion Ratio Lower Upper

49 100

128 52.3 27.9 83.6

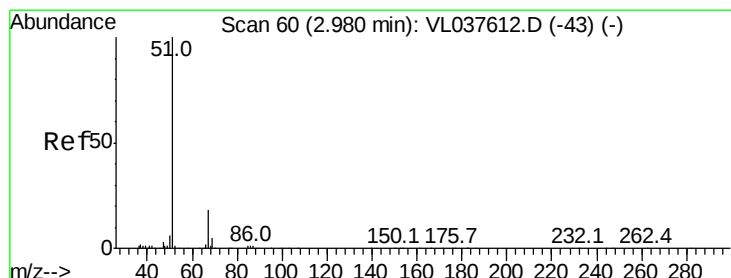
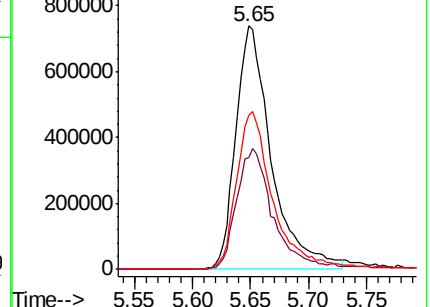
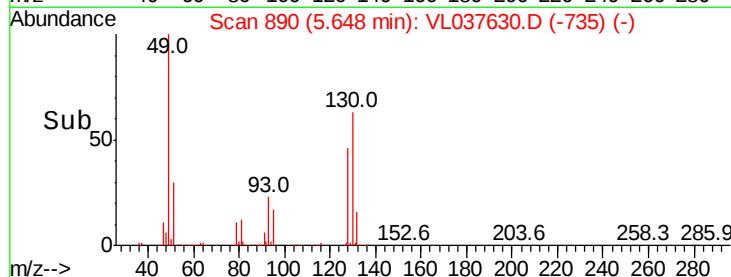
130 66.8 33.9 101.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.219 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.03 min

Lab File: VL037630.D

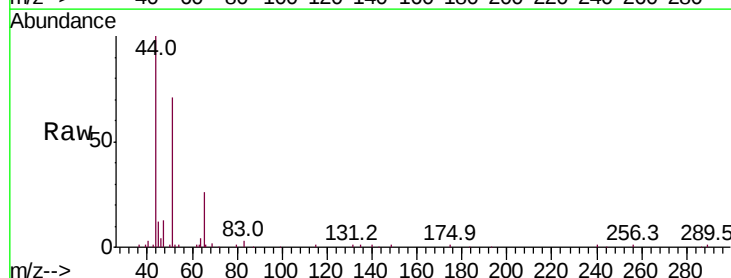
Acq: 17 Sep 2021 00:42

Tgt Ion: 51 Resp: 65140

Ion Ratio Lower Upper

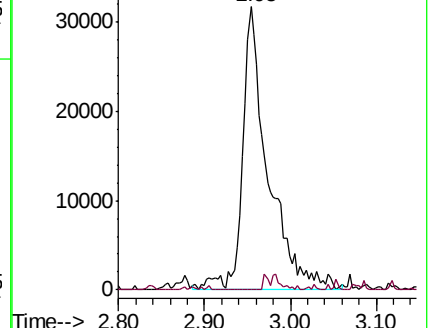
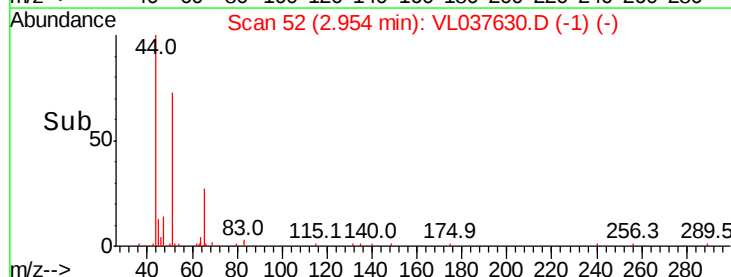
51 100

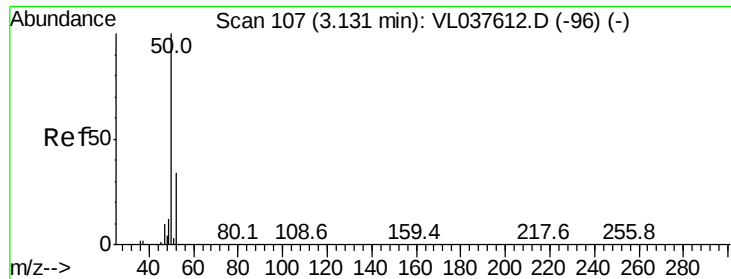
67 3.0 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.065 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.00 min

Lab File: VL037630.D

Acq: 17 Sep 2021 00:42

Instrument :

MSVOA_L

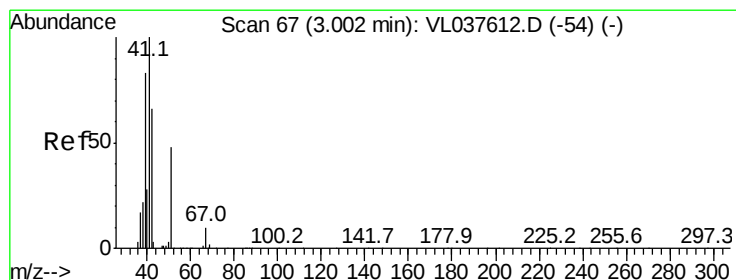
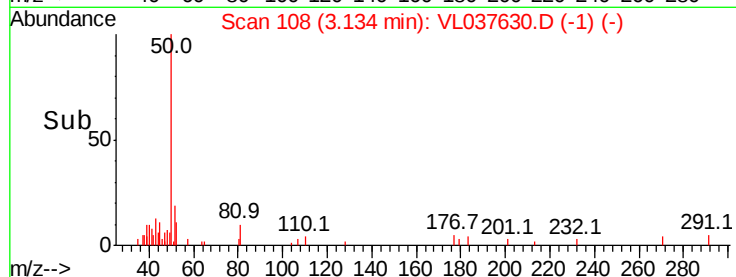
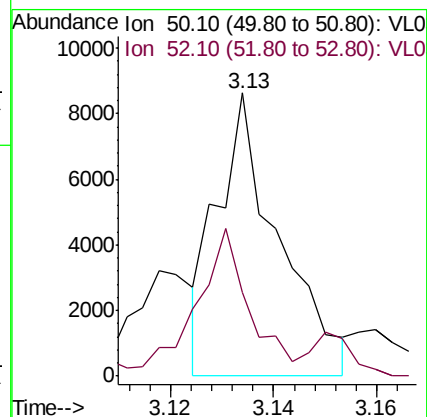
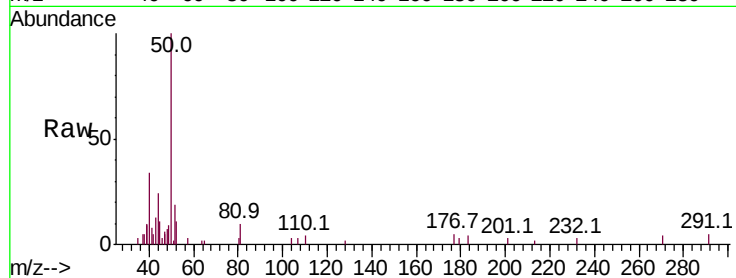
ClientSampleId :

Tot Ion: 50 Resp: 7131

Ion Ratio Lower Upper

50 100

52 18.7 27.1 40.7#



#9

Propene

Concen: 1.026 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL037630.D

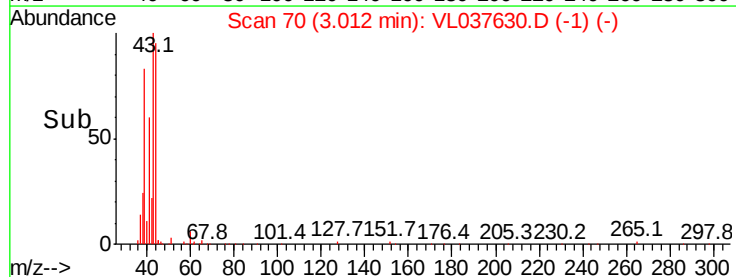
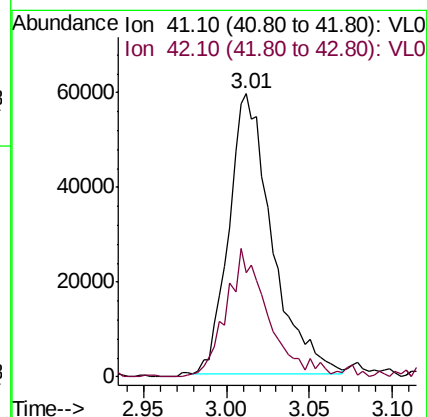
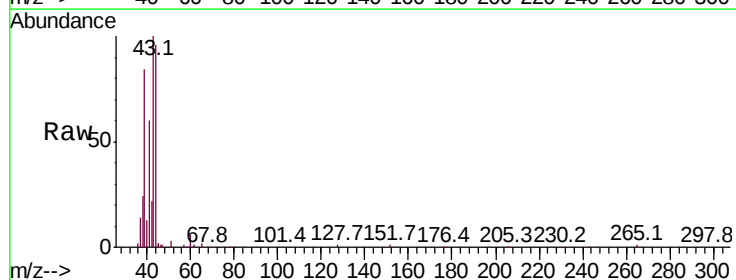
Acq: 17 Sep 2021 00:42

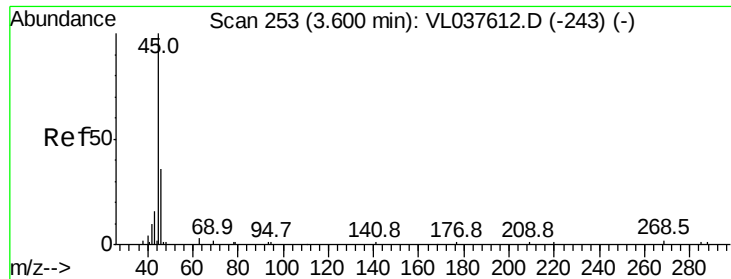
Tgt Ion: 41 Resp: 107592

Ion Ratio Lower Upper

41 100

42 46.4 57.2 85.8#

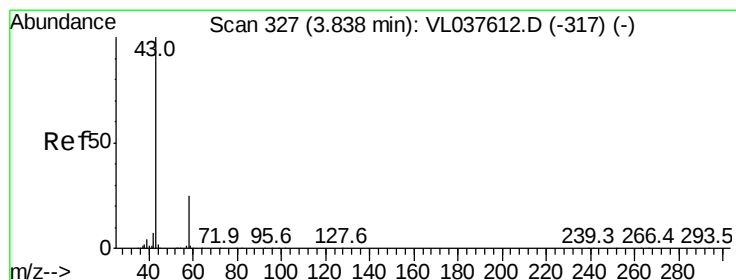
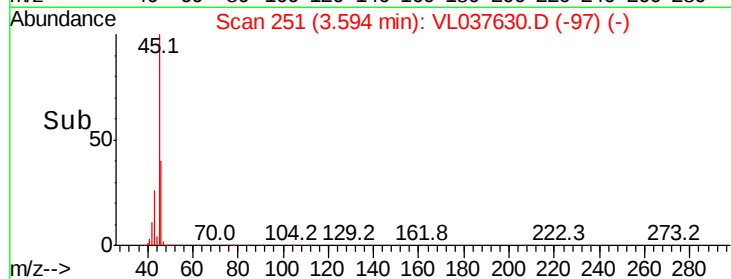
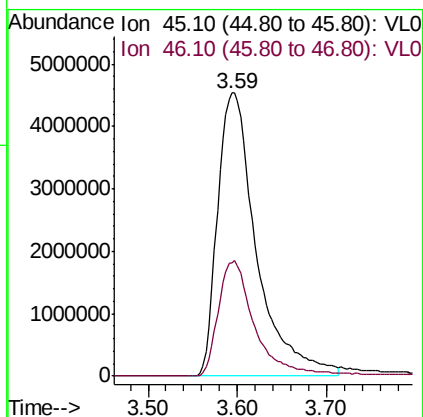
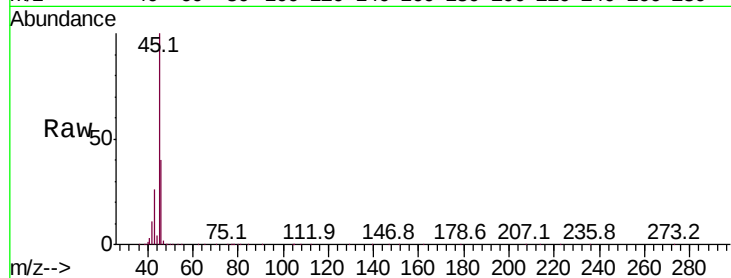




#13
Ethanol
Concen: 1341.064 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL037630.D
Acq: 17 Sep 2021 00:42

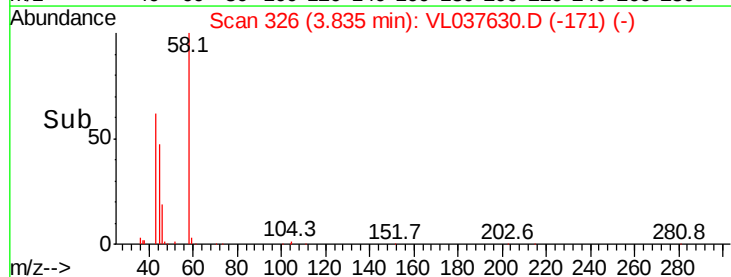
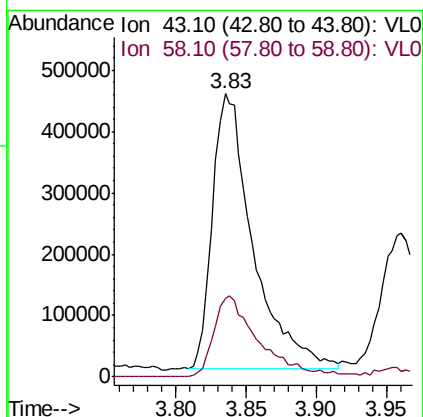
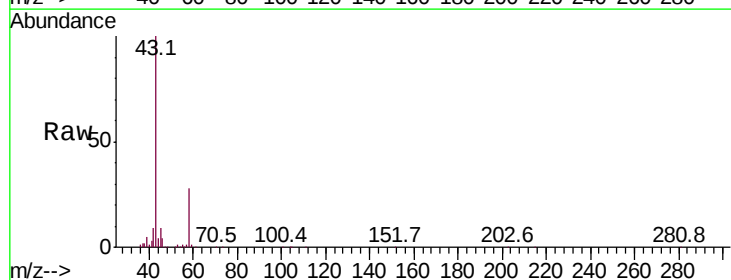
Instrument :
MSVOA_L
ClientSampleId :

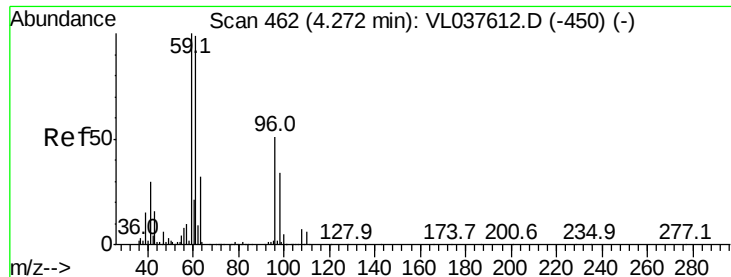
Tot Ion: 45 Resp:13754826
Ion Ratio Lower Upper
45 100
46 38.9 17.2 68.8



#15
Acetone
Concen: 5.504 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL037630.D
Acq: 17 Sep 2021 00:42

Tgt Ion: 43 Resp: 901225
Ion Ratio Lower Upper
43 100
58 32.4 24.9 37.3



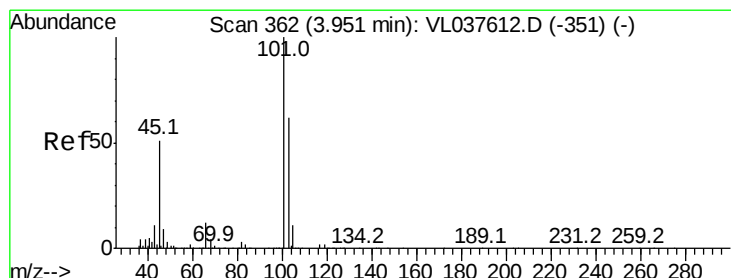
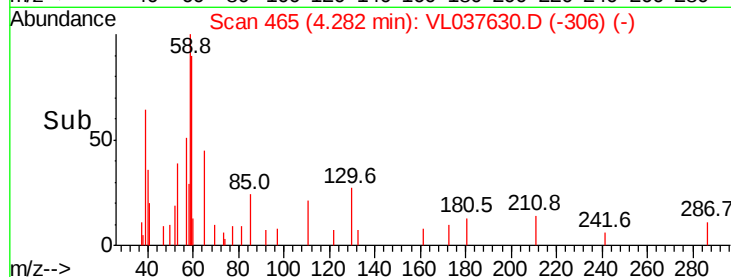
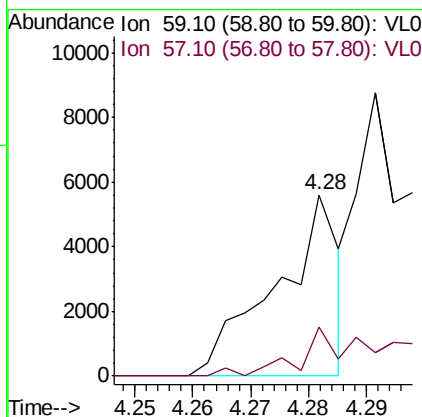
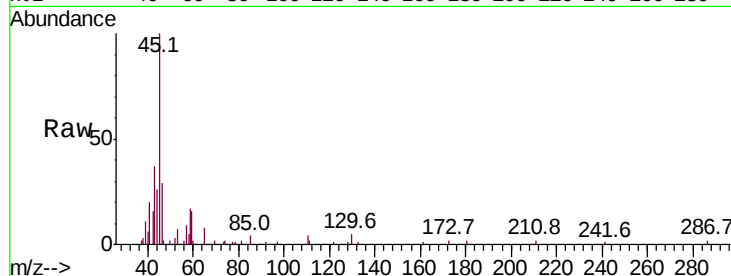


#17

tert-Butyl alcohol
Concen: 0.030 ppbv
RT: 4.28 min Scan# 465
Delta R.T. 0.01 min
Lab File: VL037630.D
Acq: 17 Sep 2021 00:42

Instrument :
MSVOA_L
ClientSampled :

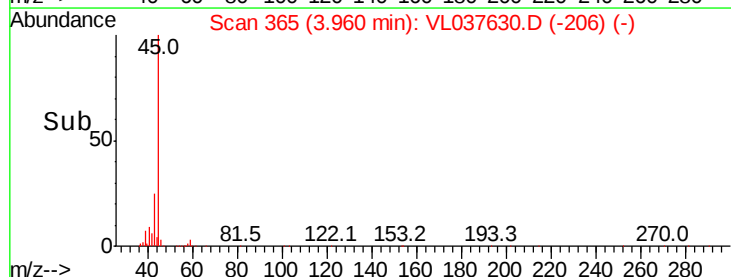
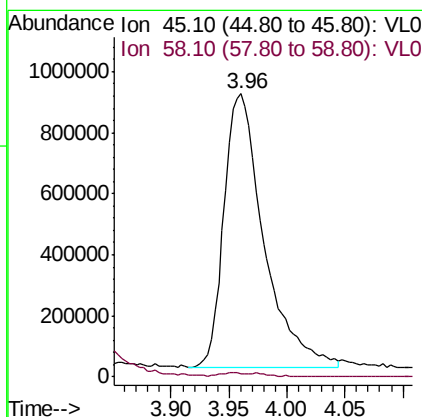
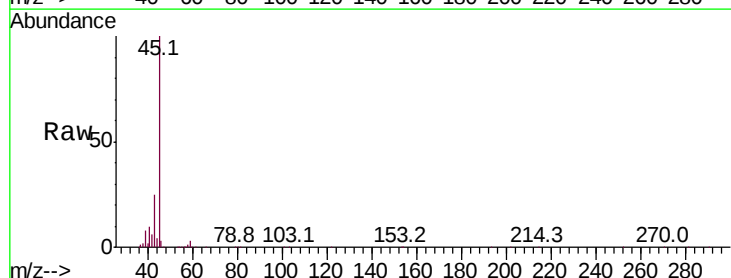
Tot Ion: 59 Resp: 4218
Ion Ratio Lower Upper
59 100
57 44.8 8.4 12.6#

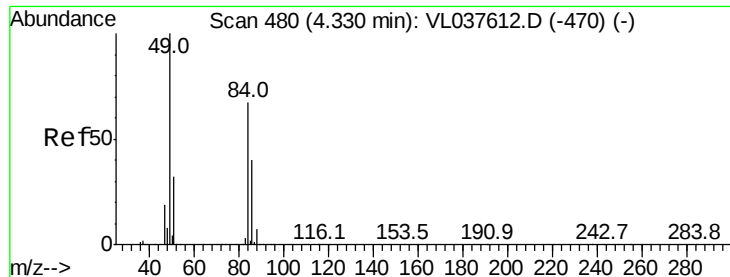


#19

Isopropyl Alcohol
Concen: 23.970 ppbv
RT: 3.96 min Scan# 365
Delta R.T. 0.01 min
Lab File: VL037630.D
Acq: 17 Sep 2021 00:42

Tgt Ion: 45 Resp: 2135562
Ion Ratio Lower Upper
45 100
58 1.7 2.9 4.3#

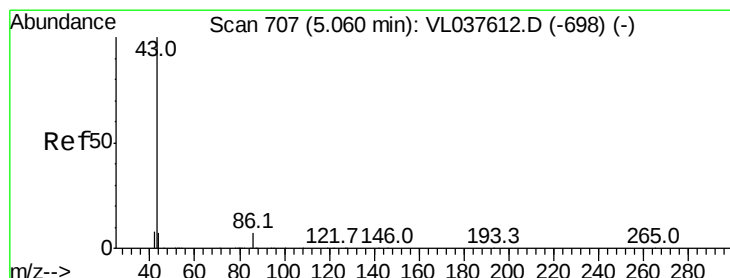
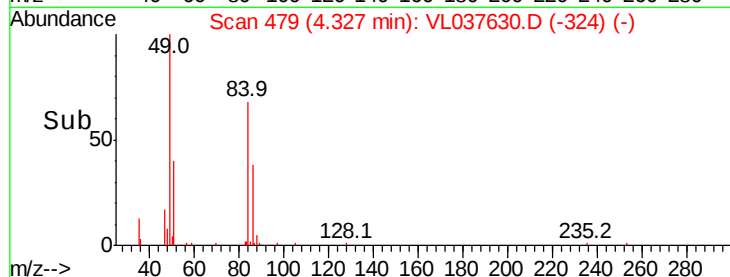
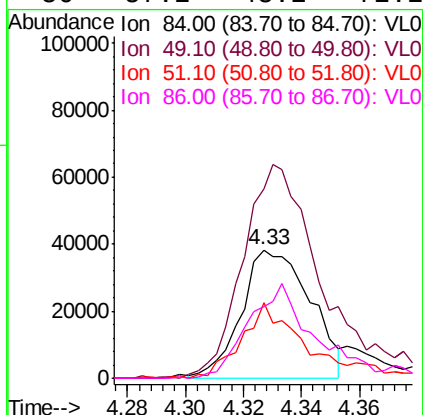
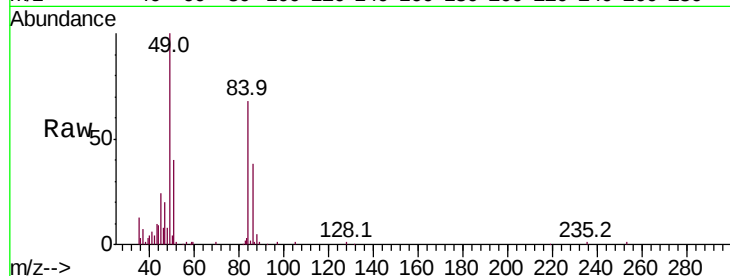




#20
Methvlene Chloride
Concen: 0.805 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL037630.D
Acq: 17 Sep 2021 00:42

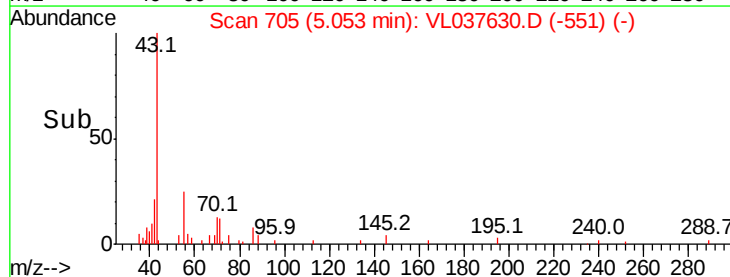
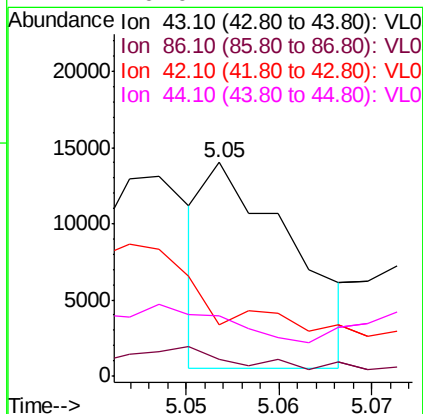
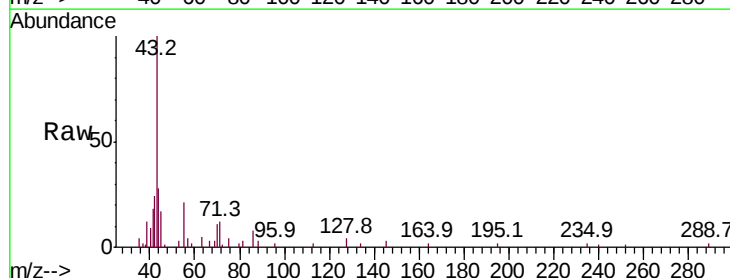
Instrument :
MSVOA_L
ClientSampled :

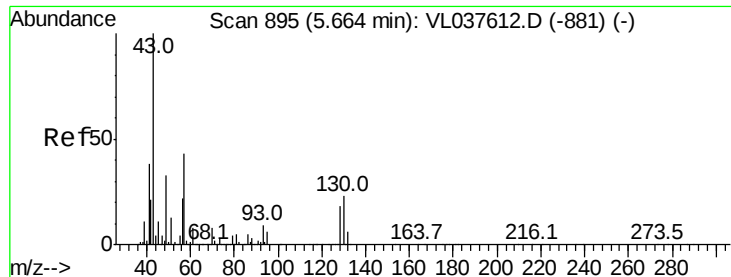
Tot Ion:	84	Resp:	62903
Ion	Ratio	Lower	Upper
84	100		
49	148.1	120.0	180.0
51	60.5	38.0	57.0#
86	57.2	48.2	72.2



#23
Vinyl Acetate
Concen: 0.039 ppbv
RT: 5.05 min Scan# 705
Delta R.T. -0.01 min
Lab File: VL037630.D
Acq: 17 Sep 2021 00:42

Tgt Ion:	43	Resp:	8890
Ion	Ratio	Lower	Upper
43	100		
86	2.4	5.0	7.6#
42	0.0	7.5	11.3#
44	10.0	4.7	7.1#

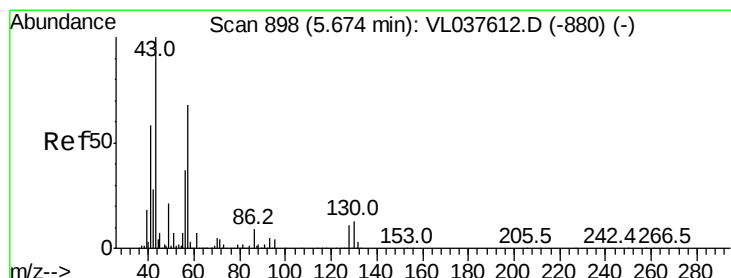
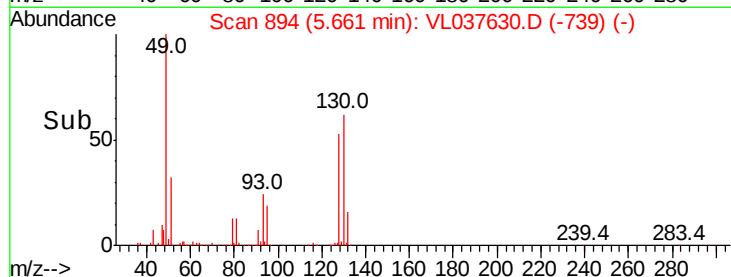
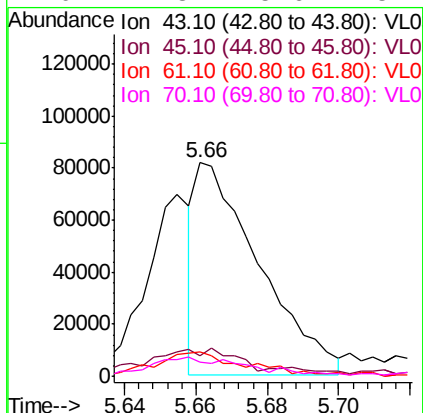
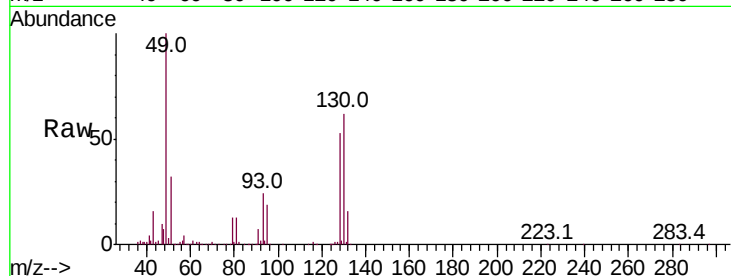




#25
Ethyl Acetate
Concen: 0.252 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL037630.D
Acq: 17 Sep 2021 00:42

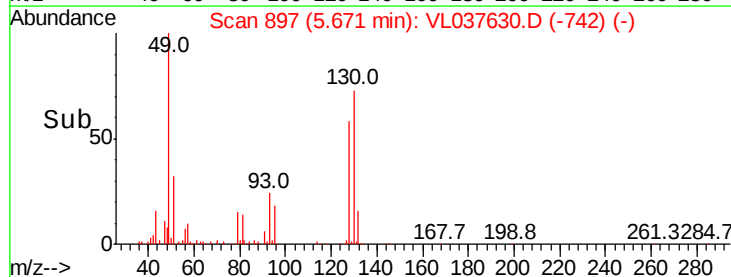
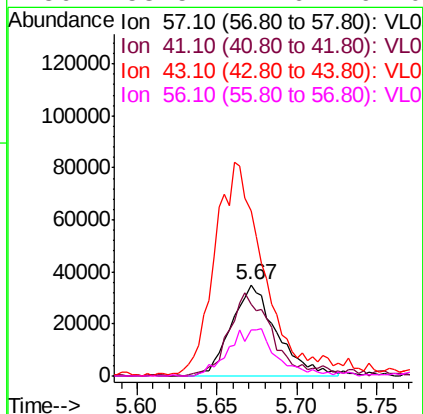
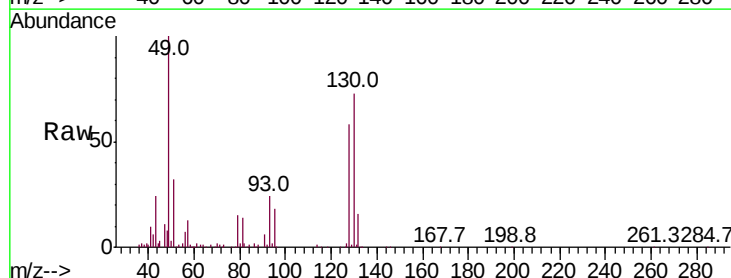
Instrument :
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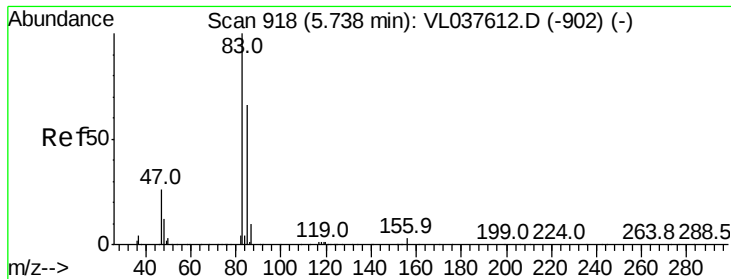
Tot Ion:	43	Resp:	100105
Ion	Ratio	Lower	Upper
43	100		
45	24.6	8.0	12.0#
61	18.1	7.5	11.3#
70	14.8	5.6	8.4#



#26
Hexane
Concen: 0.360 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.00 min
Lab File: VL037630.D
Acq: 17 Sep 2021 00:42

Tgt Ion:	57	Resp:	67822
Ion	Ratio	Lower	Upper
57	100		
41	92.3	70.9	106.3
43	261.8	170.4	255.6#
56	53.5	42.6	64.0

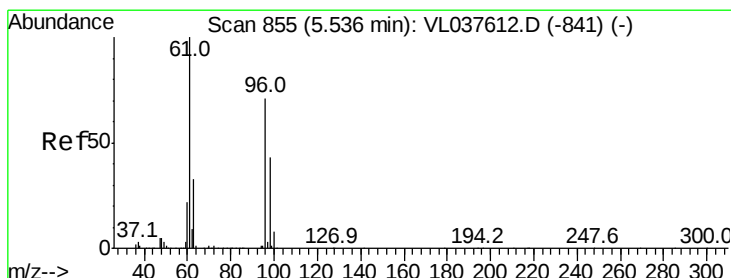
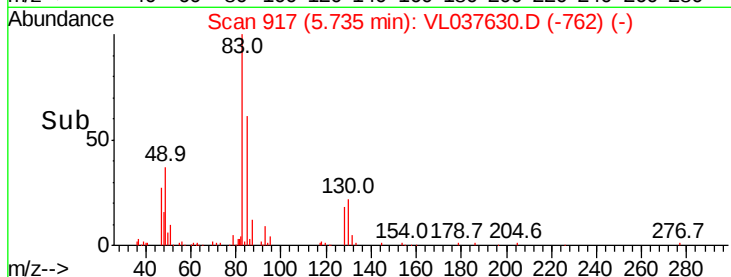
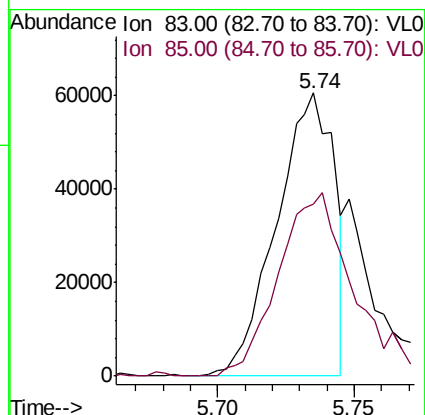
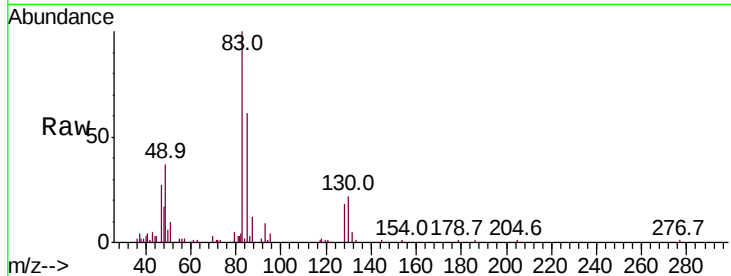




#29
Chloroform
Concen: 0.324 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.00 min
Lab File: VL037630.D
Acq: 17 Sep 2021 00:42

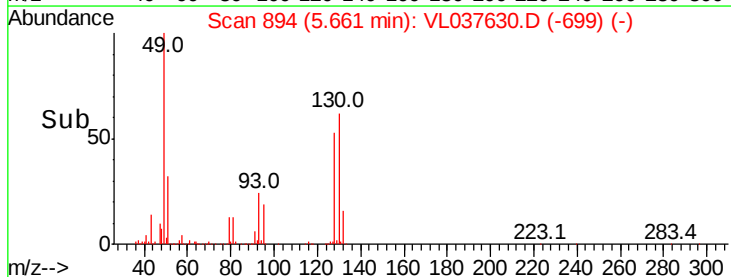
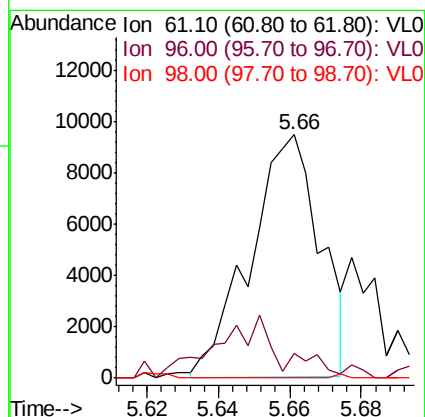
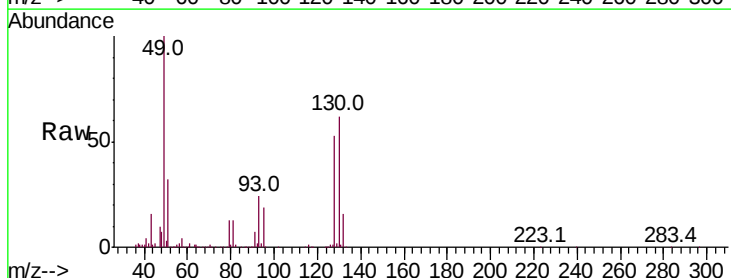
Instrument :
MSVOA_L
ClientSampleId :

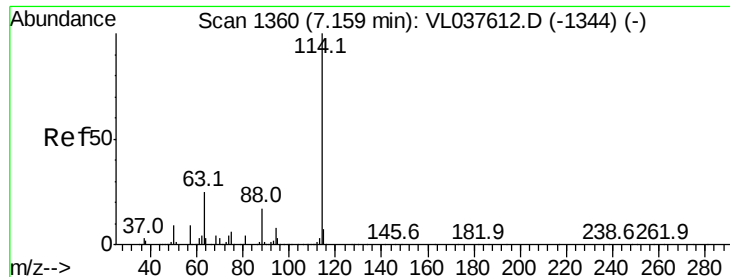
Tot Ion: 83 Resp: 89109
Ion Ratio Lower Upper
83 100
85 60.7 52.6 79.0



#31
cis-1,2-Dichloroethene
Concen: 0.075 ppbv
RT: 5.66 min Scan# 894
Delta R.T. 0.13 min
Lab File: VL037630.D
Acq: 17 Sep 2021 00:42

Tgt Ion: 61 Resp: 12849
Ion Ratio Lower Upper
61 100
96 8.4 56.7 85.1#
98 0.0 34.6 52.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.00 min

Lab File: VL037630.D

Acq: 17 Sep 2021 00:42

Instrument :

MSVOA_L

ClientSampleId :

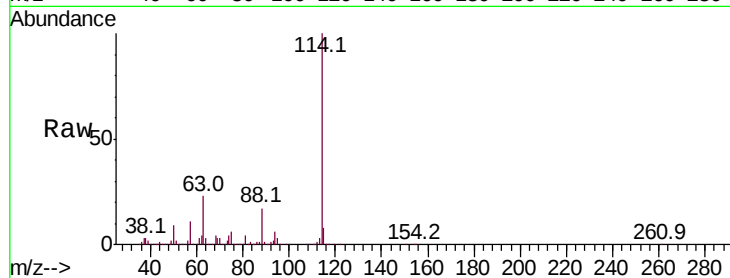
Tot Ion:114 Resp: 4445412

Ion Ratio Lower Upper

114 100

63 24.2 19.6 29.4

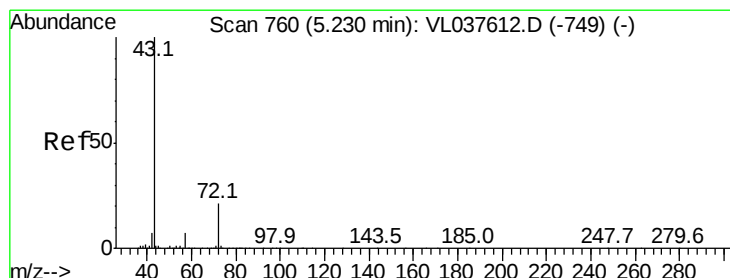
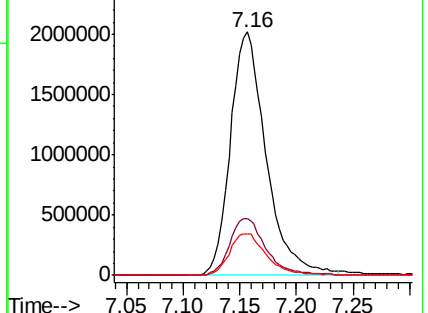
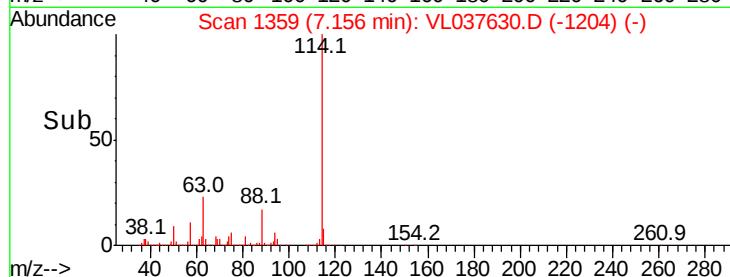
88 18.3 14.2 21.4



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.290 ppbv

RT: 5.23 min Scan# 760

Delta R.T. 0.00 min

Lab File: VL037630.D

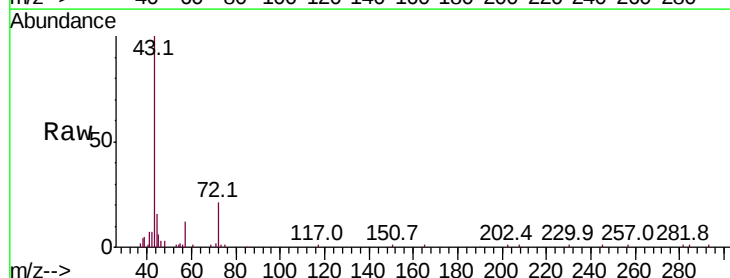
Acq: 17 Sep 2021 00:42

Tgt Ion: 43 Resp: 52439

Ion Ratio Lower Upper

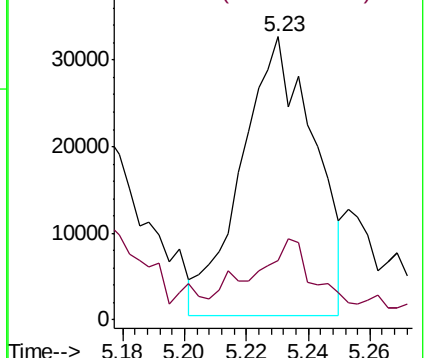
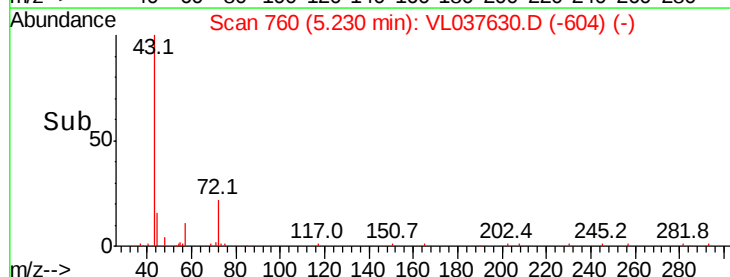
43 100

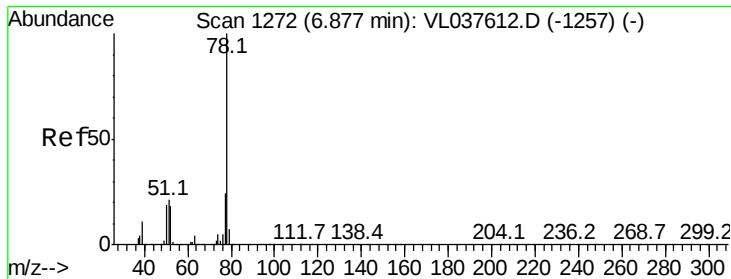
72 35.5 18.4 27.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.073 ppbv

RT: 6.87 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VL037630.D

Acq: 17 Sep 2021 00:42

Instrument :

MSVOA_L

ClientSampleId :

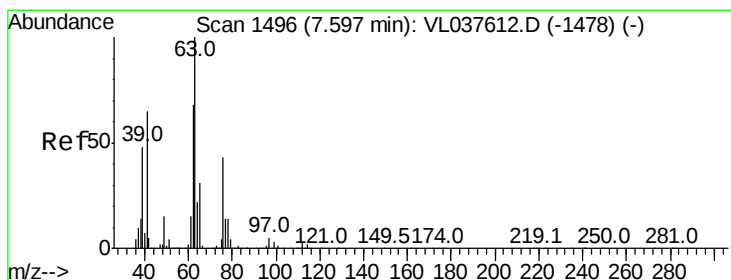
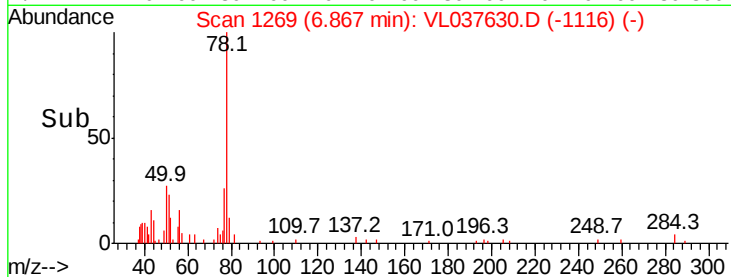
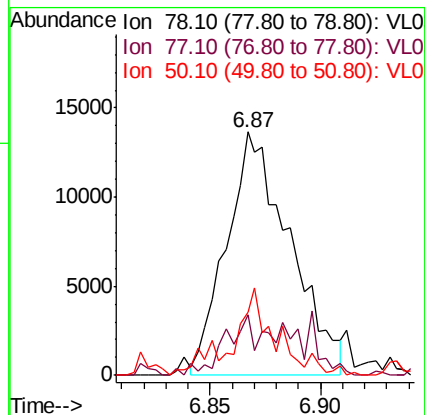
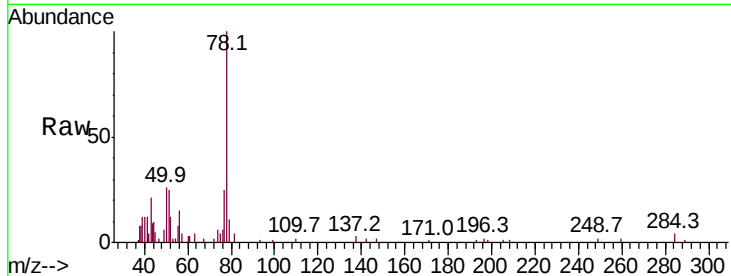
Tot Ion: 78 Resp: 27154

Ion Ratio Lower Upper

78 100

77 21.9 19.0 28.4

50 24.5 14.8 22.2#



#39

1,2-Dichloropropane

Concen: 7.297 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.44 min

Lab File: VL037630.D

Acq: 17 Sep 2021 00:42

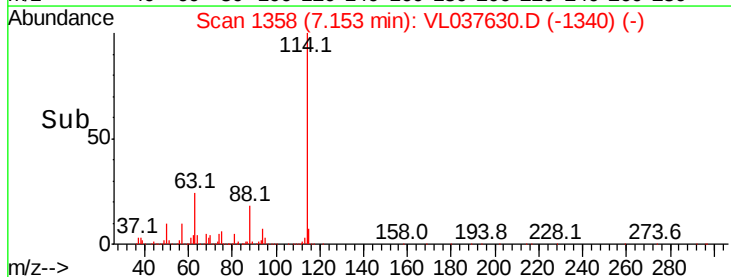
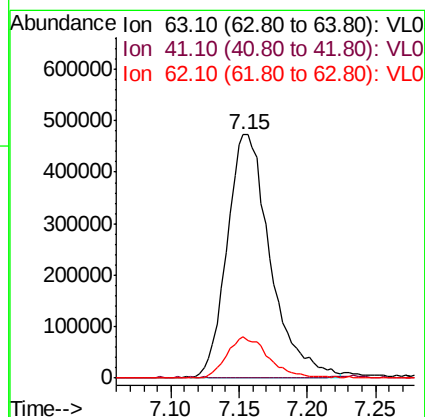
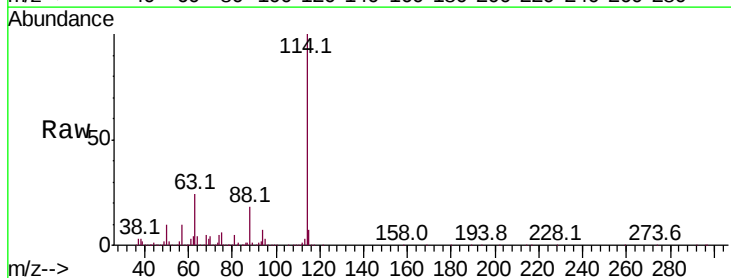
Tgt Ion: 63 Resp: 1036036

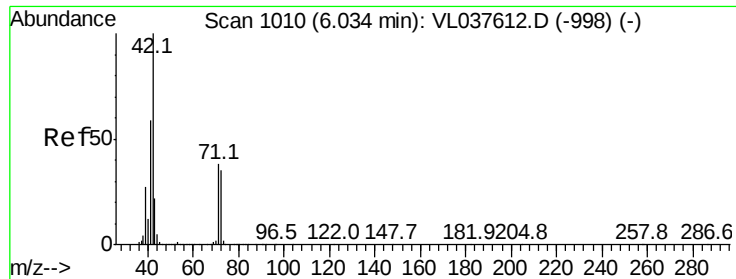
Ion Ratio Lower Upper

63 100

41 0.0 51.6 77.4#

62 17.1 54.6 81.8#





#41

Tetrahydrofuran

Concen: 0.042 ppbv

RT: 6.04 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VL037630.D

Acq: 17 Sep 2021 00:42

Instrument :

MSVOA_L

ClientSampled :

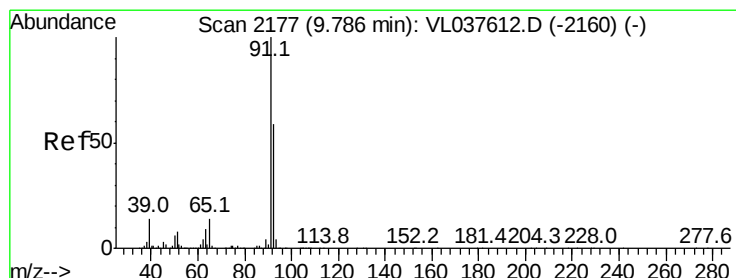
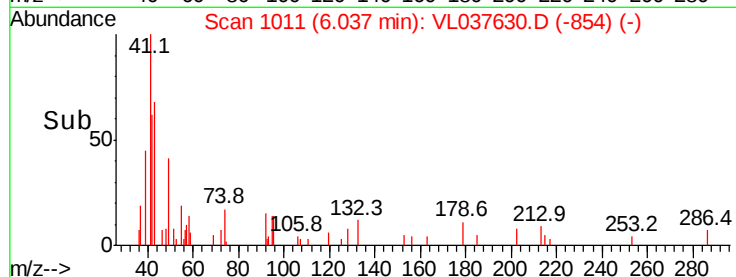
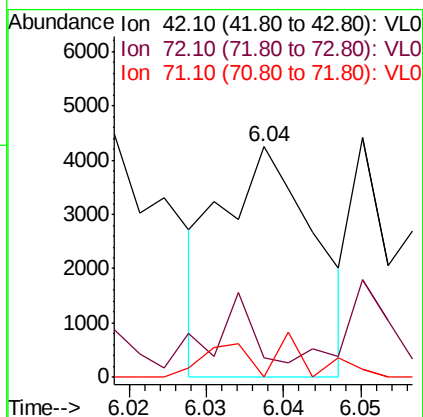
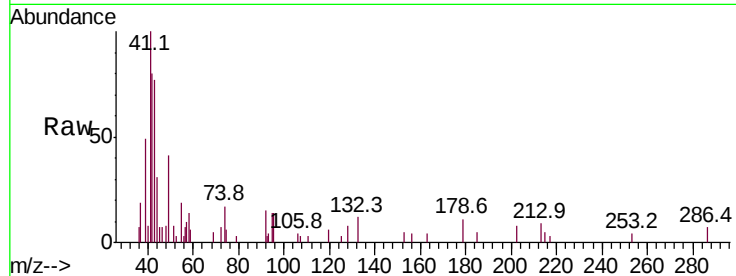
Tot Ion: 42 Resp: 3581

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.2#

71 14.4 30.6 46.0#



#53

Toluene

Concen: 0.171 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL037630.D

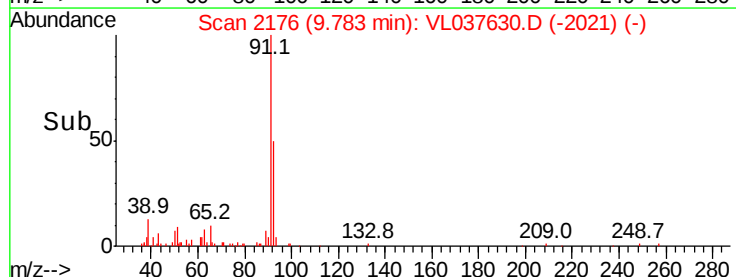
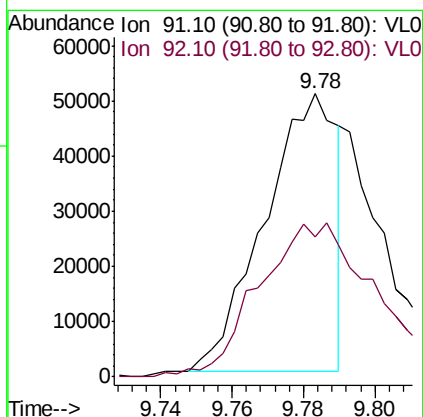
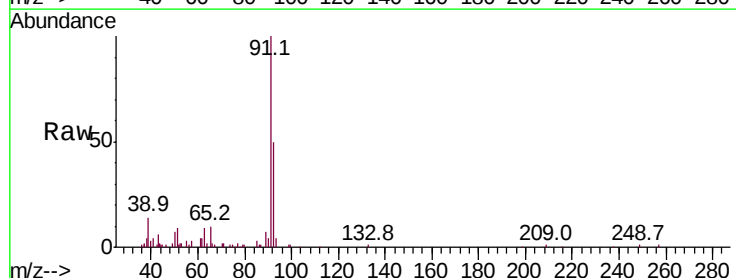
Acq: 17 Sep 2021 00:42

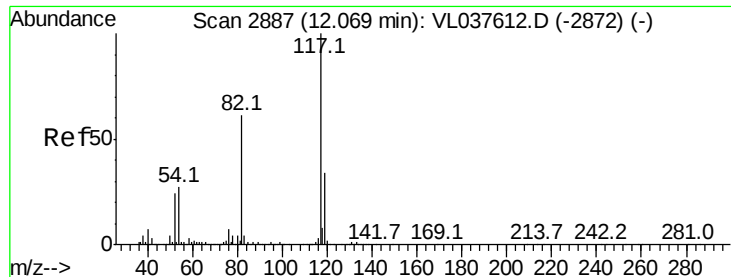
Tgt Ion: 91 Resp: 70660

Ion Ratio Lower Upper

91 100

92 92.9 48.9 73.3#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.01 min

Lab File: VL037630.D

Acq: 17 Sep 2021 00:42

Instrument :

MSVOA_L

ClientSampleId :

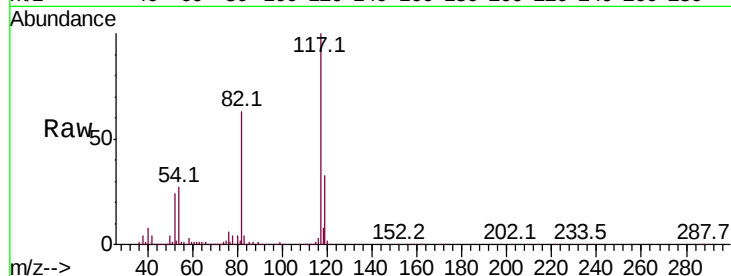
Tot Ion:117 Resp: 3859482

Ion Ratio Lower Upper

117 100

82 64.9 50.6 75.8

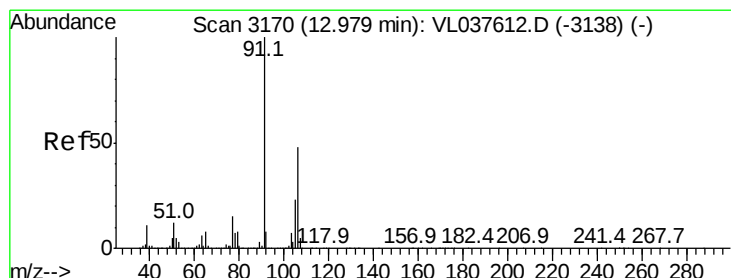
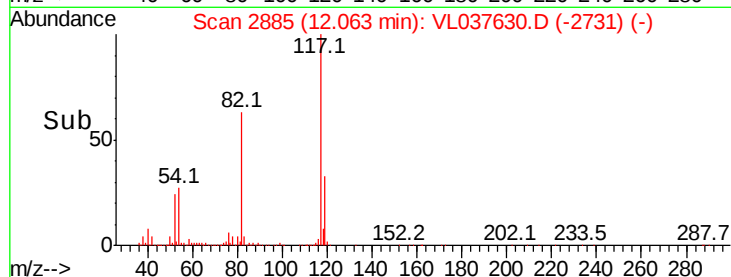
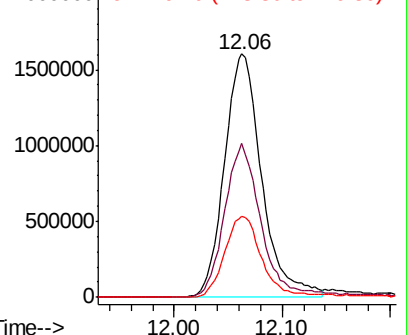
119 34.6 26.2 39.2



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



#59

m/p-Xylene

Concen: 0.088 ppbv

RT: 12.96 min Scan# 3164

Delta R.T. -0.02 min

Lab File: VL037630.D

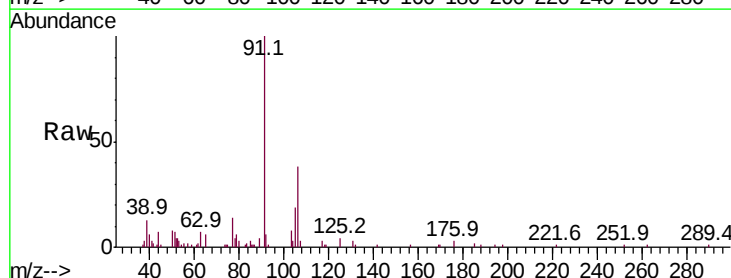
Acq: 17 Sep 2021 00:42

Tgt Ion: 91 Resp: 39117

Ion Ratio Lower Upper

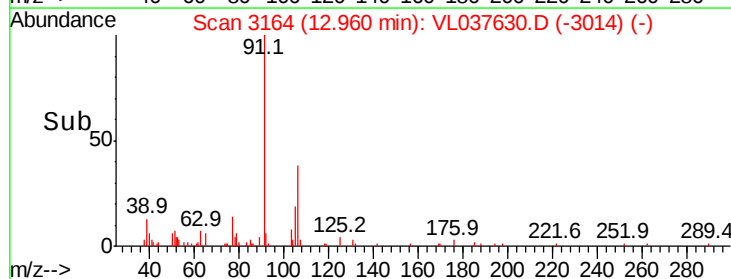
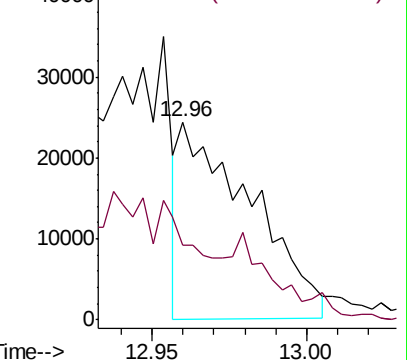
91 100

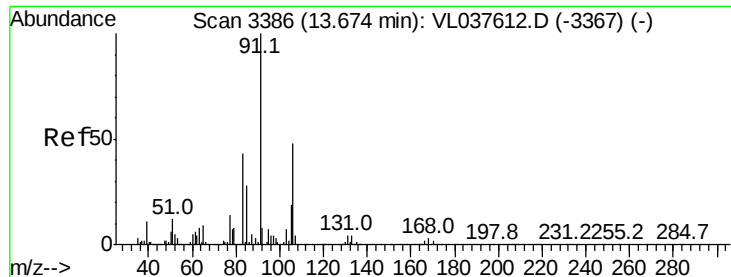
106 0.0 36.6 55.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#60

o-Xylene

Concen: 0.057 ppbv

RT: 13.66 min Scan# 3383

Delta R.T. -0.01 min

Lab File: VL037630.D

Acq: 17 Sep 2021 00:42

Instrument :

MSVOA_L

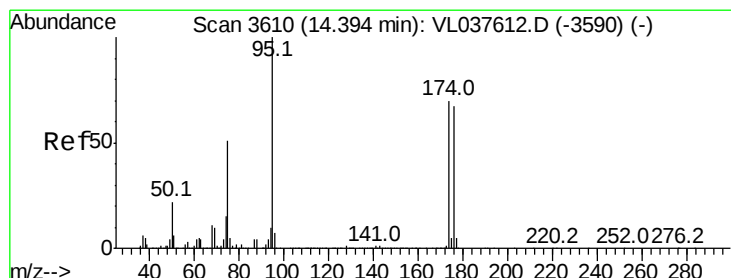
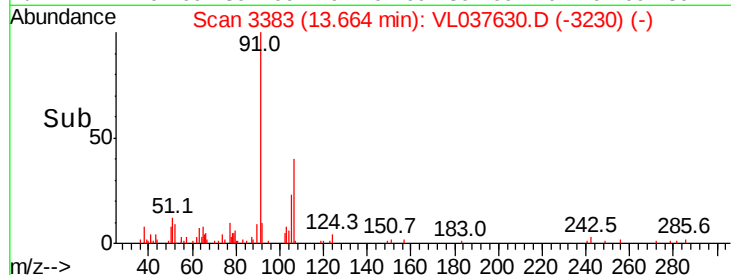
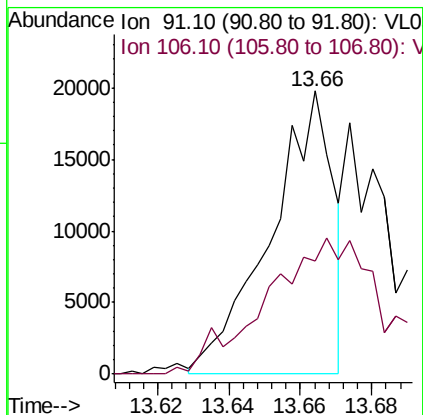
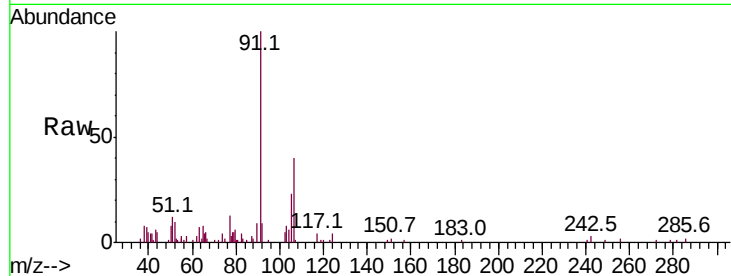
ClientSampled :

Tot Ion: 91 Resp: 24097

Ion Ratio Lower Upper

91 100

106 96.2 23.0 69.0#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.641 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. 0.00 min

Lab File: VL037630.D

Acq: 17 Sep 2021 00:42

Tgt Ion: 95 Resp: 2689021

Ion Ratio Lower Upper

95 100

174 77.2 56.3 84.5

175 5.7 4.4 6.6

