

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060821\
 Data File : VL037139.D
 Acq On : 8 Jun 2021 19:38
 Operator : SY/AP
 Sample : M2614-05DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 09 01:21:25 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	5.67	49	1299095	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.17	114	3796545	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.08	117	3468730	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2466022	9.46	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.60%

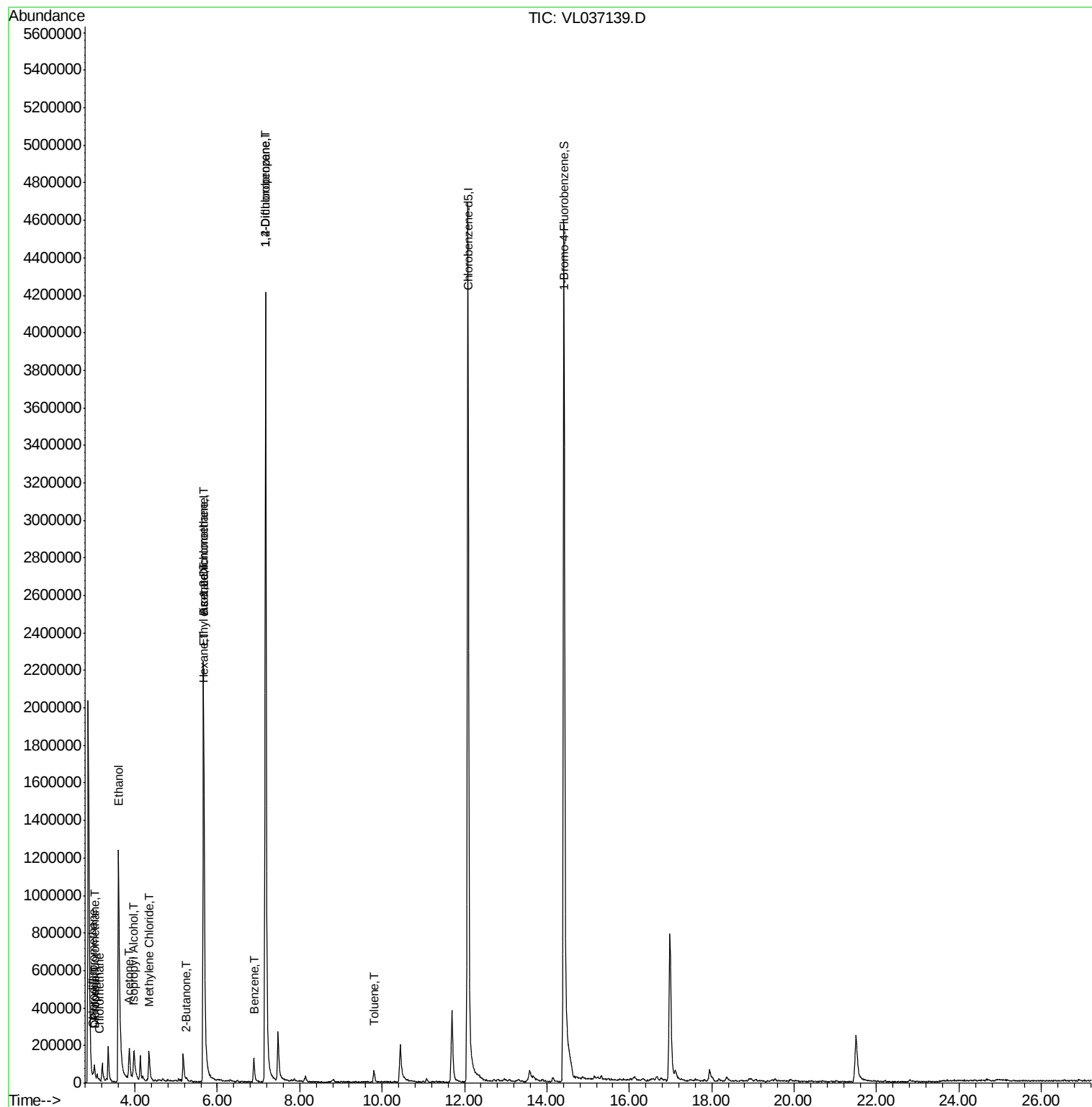
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	14816	0.067 ppbv #	83
3) Chlorodifluoromethane	2.98	51	59634	0.251 ppbv	93
4) Chloromethane	3.14	50	3839	0.047 ppbv #	65
9) Propene	3.02	41	17106	0.201 ppbv #	60
13) Ethanol	3.60	45	1791441	157.548 ppbv	99
15) Acetone	3.85	43	197420	1.484 ppbv #	80
19) Isopropyl Alcohol	3.97	45	77783	1.087 ppbv #	50
20) Methylene Chloride	4.34	84	59397	0.833 ppbv	97
25) Ethyl Acetate	5.68	43	52691	0.165 ppbv #	85
26) Hexane	5.68	57	27518	0.168 ppbv #	64
31) cis-1,2-Dichloroethene	5.68	61	6389	0.044 ppbv #	45
34) 2-Butanone	5.23	43	4150	0.030 ppbv #	52
36) Benzene	6.88	78	113395	0.347 ppbv	96
39) 1,2-Dichloropropane	7.17	63	891628	7.078 ppbv #	25
53) Toluene	9.81	91	36797	0.095 ppbv #	76

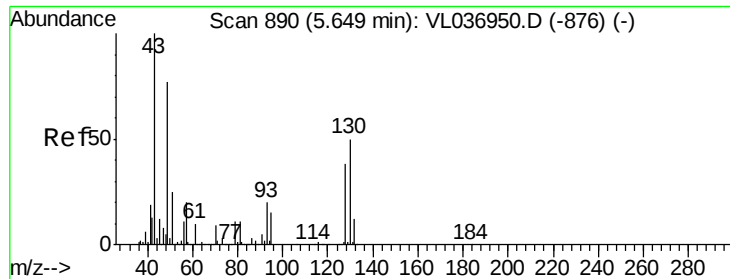
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.02 min

Lab File: VL037139.D

Acq: 8 Jun 2021 19:38

Instrument :

MSVOA_L

ClientSampleId :

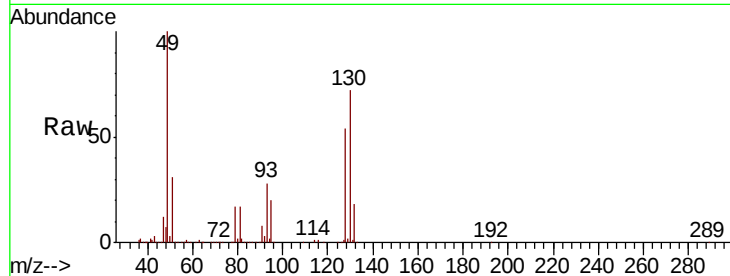
Tot Ion: 49 Resp: 1299095

Ion Ratio Lower Upper

49 100

128 57.2 26.9 80.7

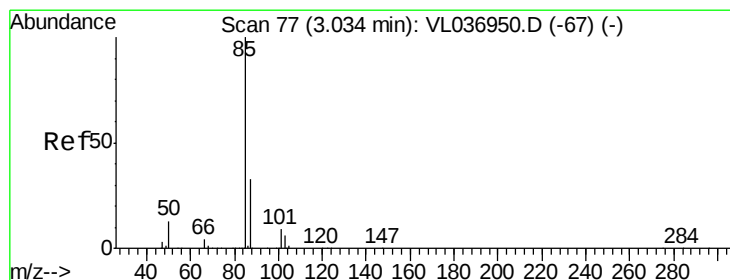
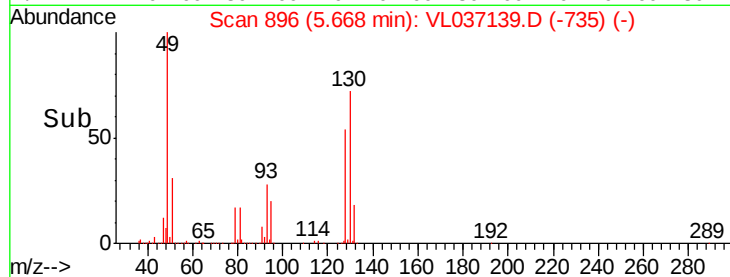
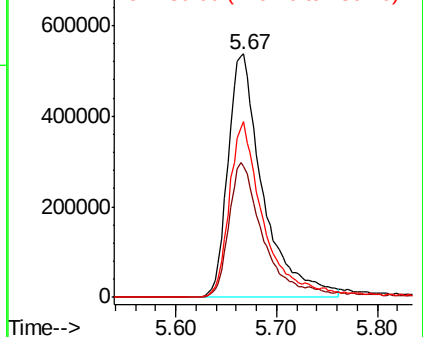
130 73.3 33.8 101.4



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



#2

Dichlorodifluoromethane

Concen: 0.067 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.01 min

Lab File: VL037139.D

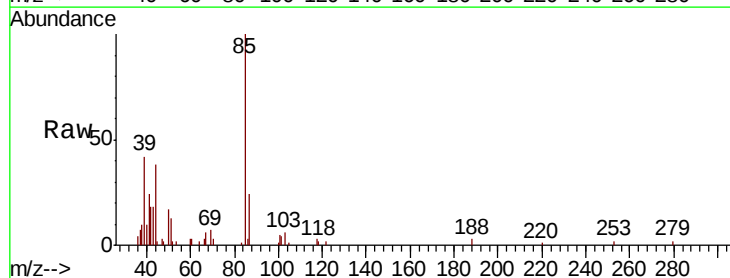
Acq: 8 Jun 2021 19:38

Tgt Ion: 85 Resp: 14816

Ion Ratio Lower Upper

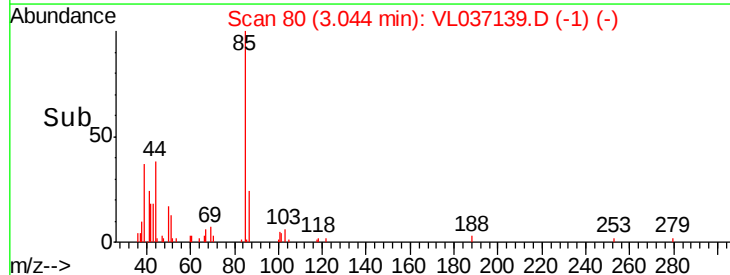
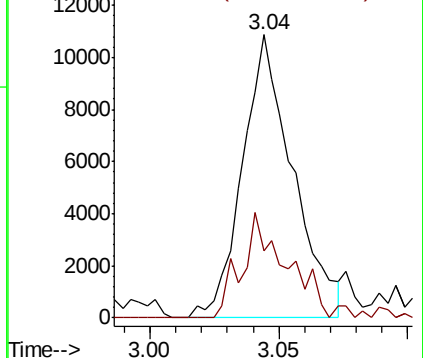
85 100

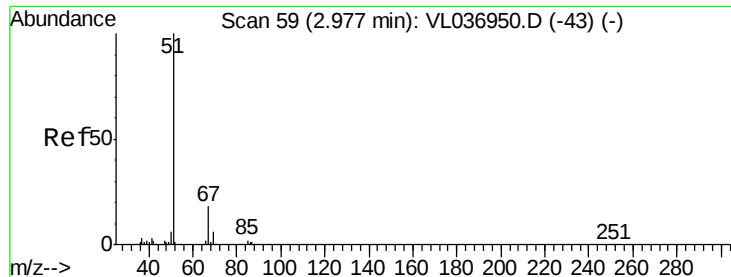
87 23.5 26.6 39.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.251 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.01 min

Lab File: VL037139.D

Acq: 8 Jun 2021 19:38

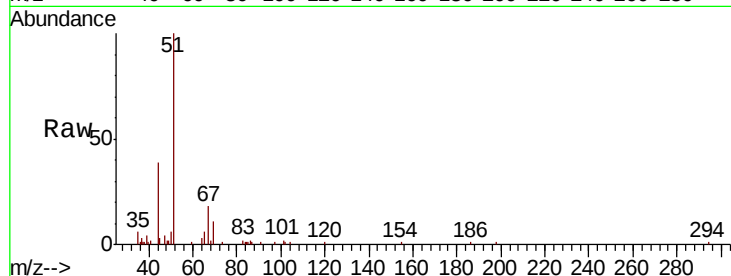
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 51 Resp: 59634

Ion Ratio Lower Upper

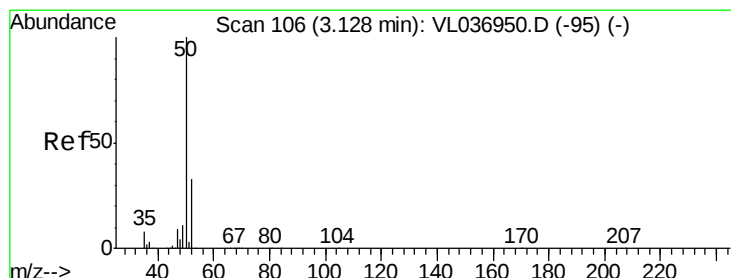
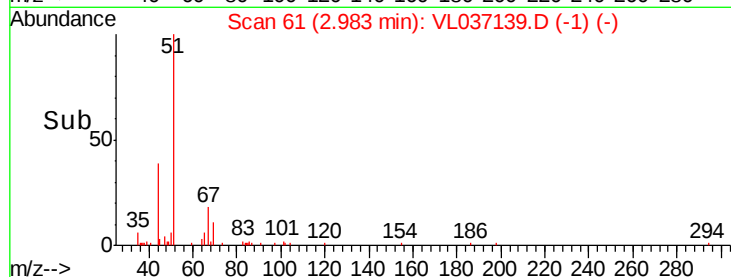
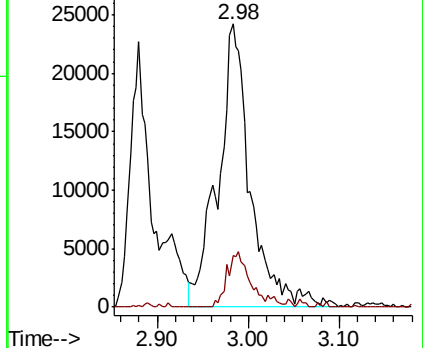
51 100

67 14.9 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.047 ppbv

RT: 3.14 min Scan# 109

Delta R.T. 0.01 min

Lab File: VL037139.D

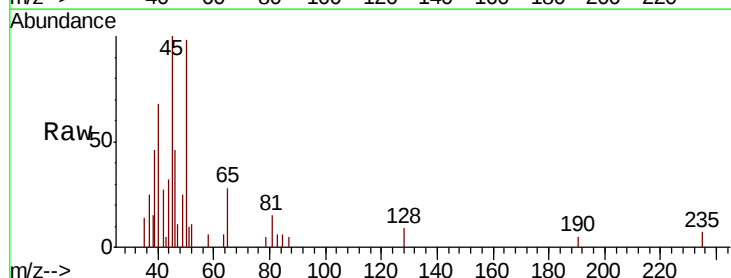
Acq: 8 Jun 2021 19:38

Tgt Ion: 50 Resp: 3839

Ion Ratio Lower Upper

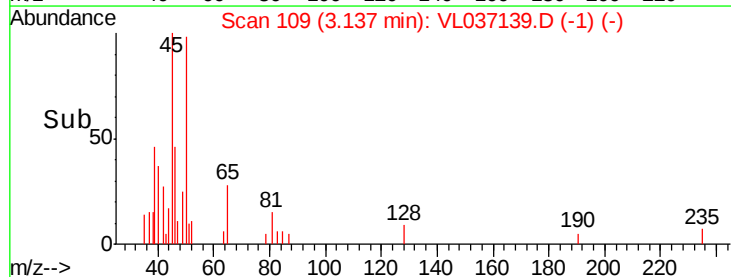
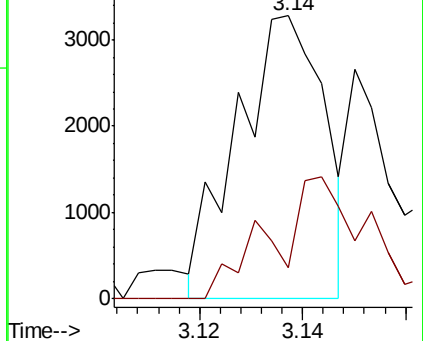
50 100

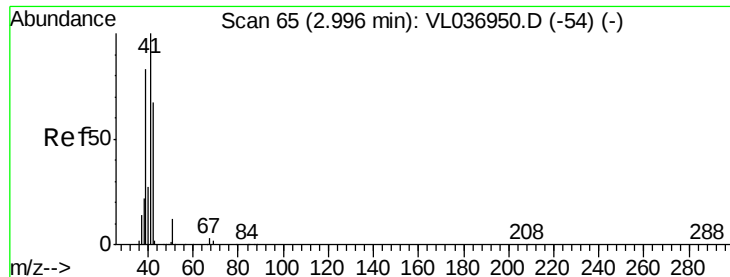
52 13.0 26.1 39.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.201 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.02 min

Lab File: VL037139.D

Acq: 8 Jun 2021 19:38

Instrument :

MSVOA_L

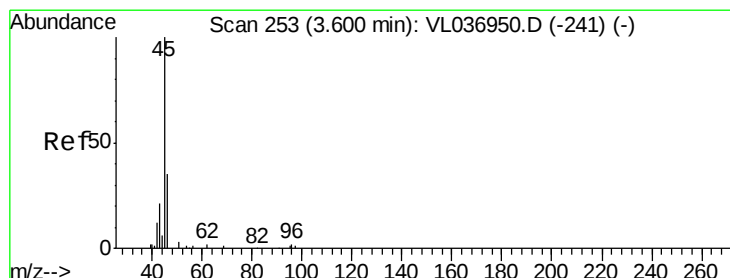
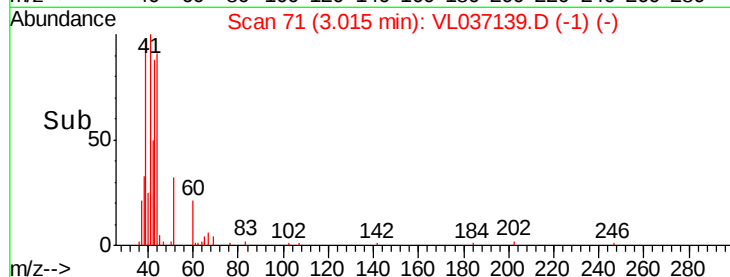
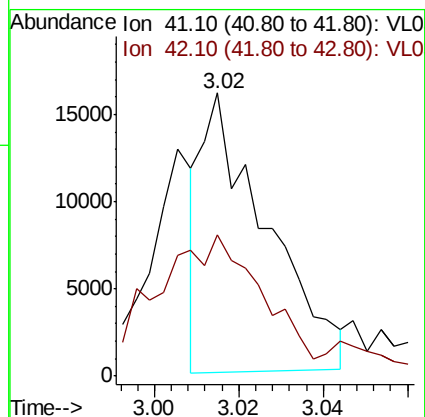
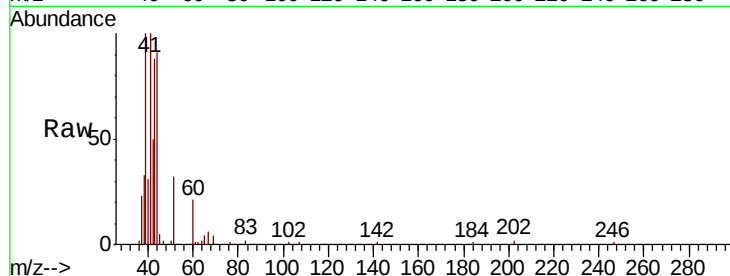
ClientSampleId :

Tot Ion: 41 Resp: 17106

Ion Ratio Lower Upper

41 100

42 99.7 53.9 80.9#



#13

Ethanol

Concen: 157.548 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.00 min

Lab File: VL037139.D

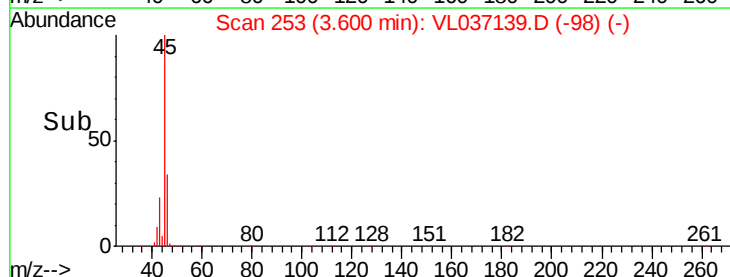
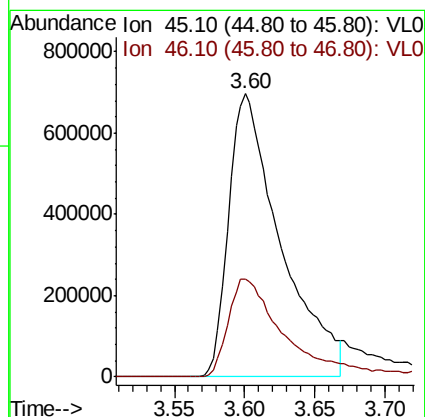
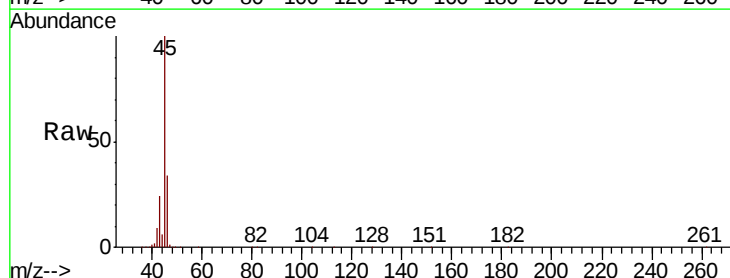
Acq: 8 Jun 2021 19:38

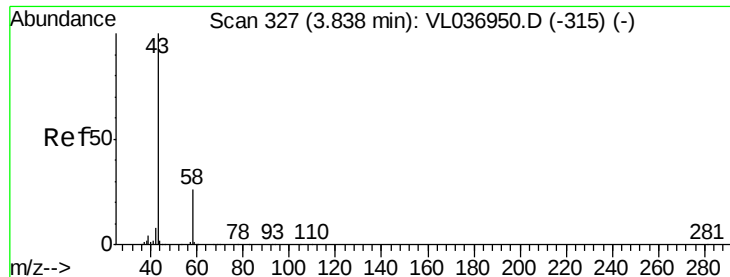
Tgt Ion: 45 Resp: 1791441

Ion Ratio Lower Upper

45 100

46 40.3 16.3 65.3





#15

Acetone

Concen: 1.484 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.02 min

Lab File: VL037139.D

Acq: 8 Jun 2021 19:38

Instrument :

MSVOA_L

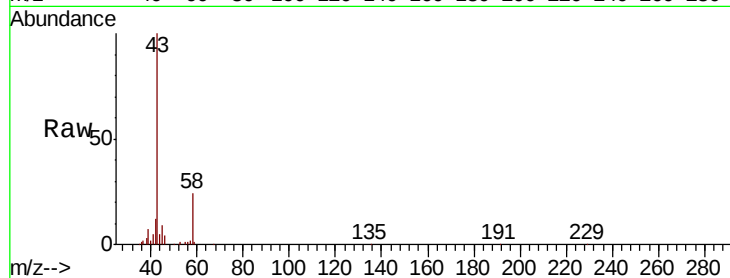
ClientSampleId :

Tot Ion: 43 Resp: 197420

Ion Ratio Lower Upper

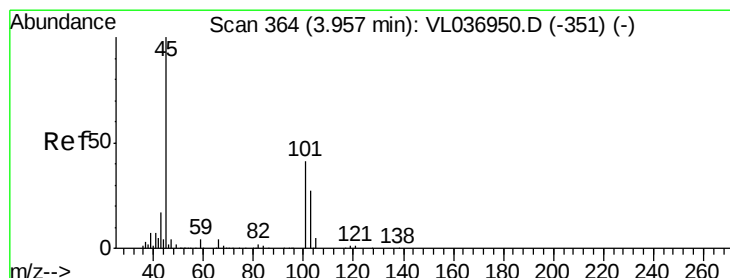
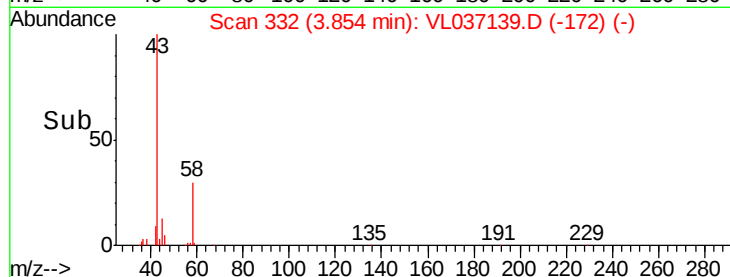
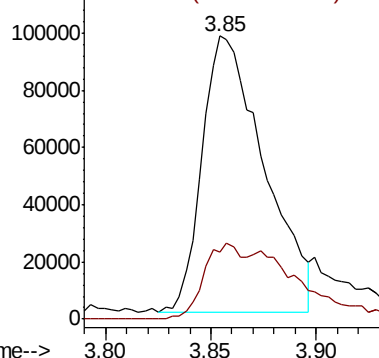
43 100

58 40.7 24.0 36.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 1.087 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL037139.D

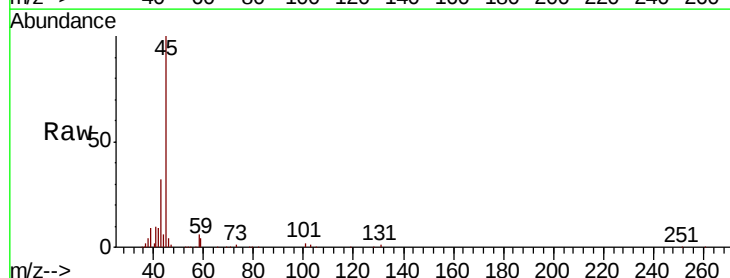
Acq: 8 Jun 2021 19:38

Tgt Ion: 45 Resp: 77783

Ion Ratio Lower Upper

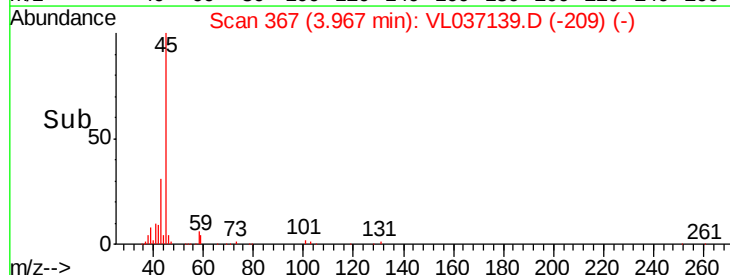
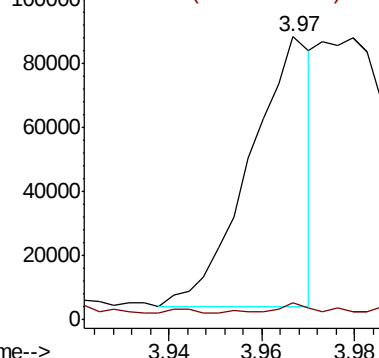
45 100

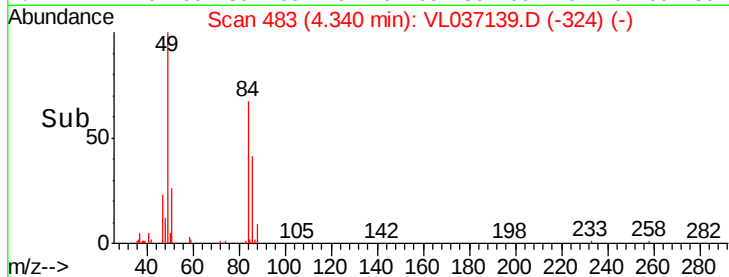
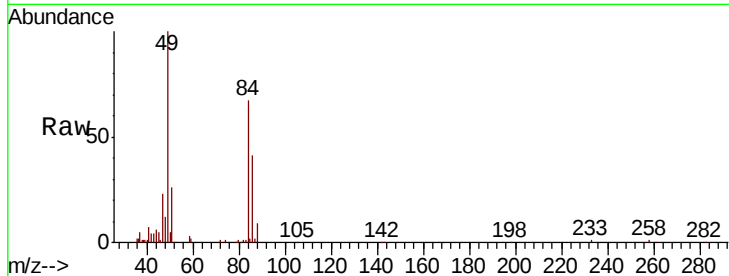
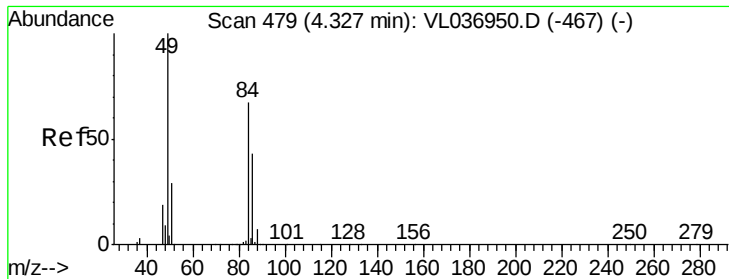
58 13.5 37.2 55.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

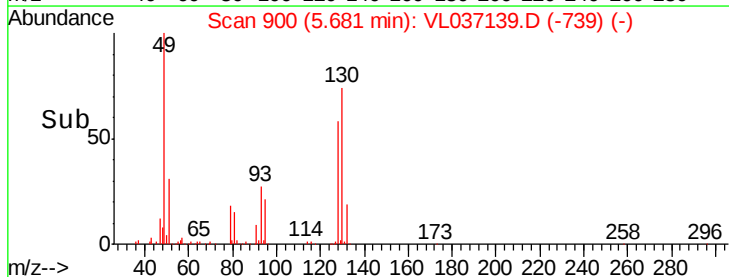
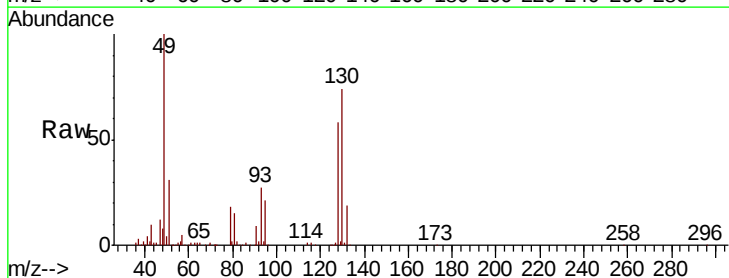
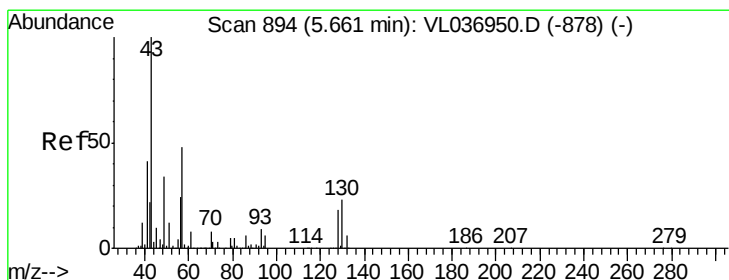
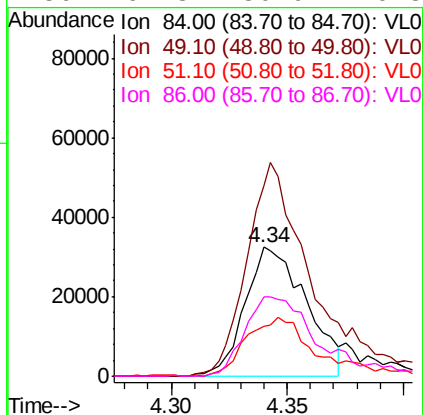




#20
Methvlene Chloride
Concen: 0.833 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.01 min
Lab File: VL037139.D
Acq: 8 Jun 2021 19:38

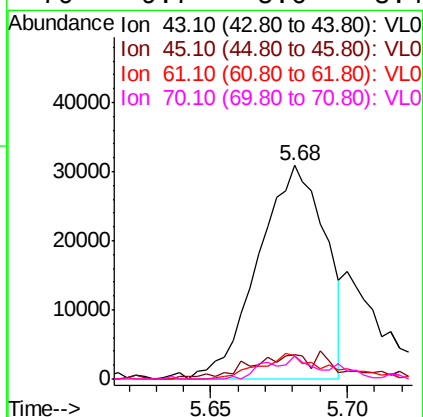
Instrument :
MSVOA_L
ClientSampled :

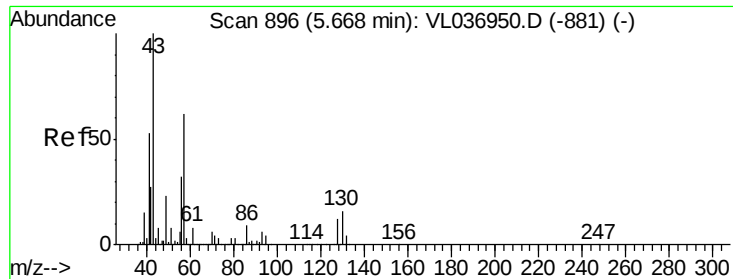
Tot Ion:	84	Resp:	59397
Ion	Ratio	Lower	Upper
84	100		
49	148.2	119.8	179.6
51	38.9	35.1	52.7
86	61.3	50.9	76.3



#25
Ethyl Acetate
Concen: 0.165 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.02 min
Lab File: VL037139.D
Acq: 8 Jun 2021 19:38

Tgt Ion:	43	Resp:	52691
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.8#
61	12.7	7.8	11.8#
70	9.7	5.6	8.4#

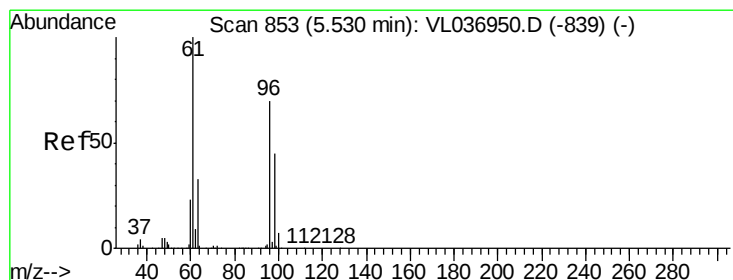
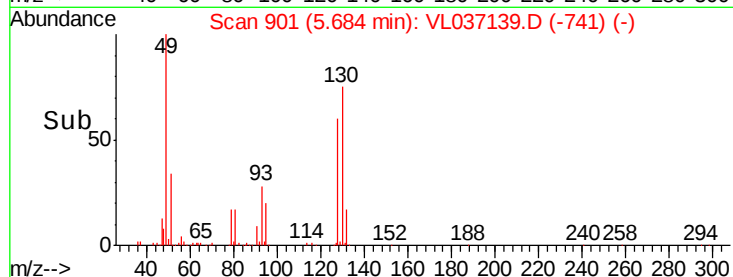
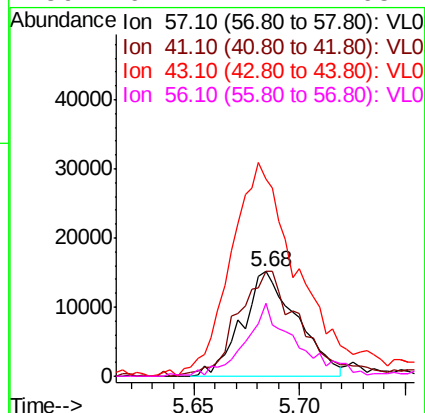
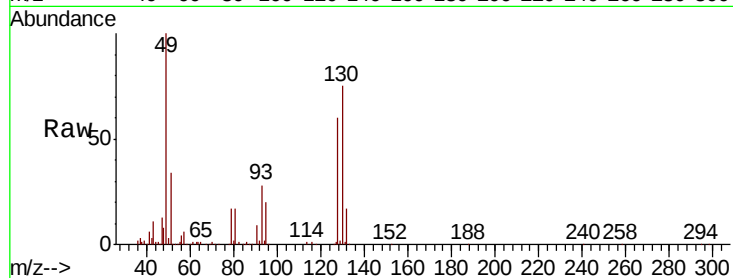




#26
Hexane
Concen: 0.168 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.02 min
Lab File: VL037139.D
Acq: 8 Jun 2021 19:38

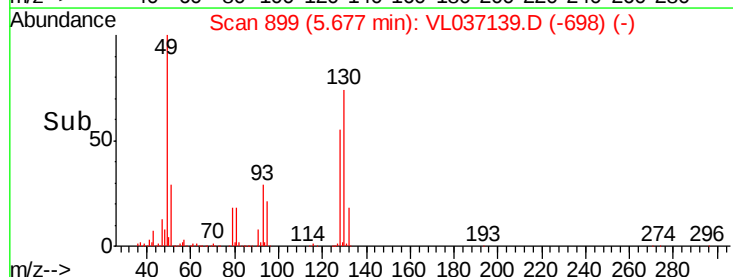
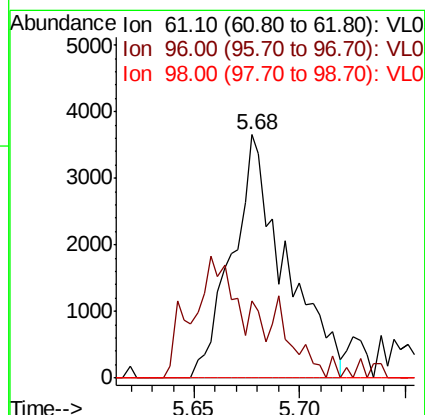
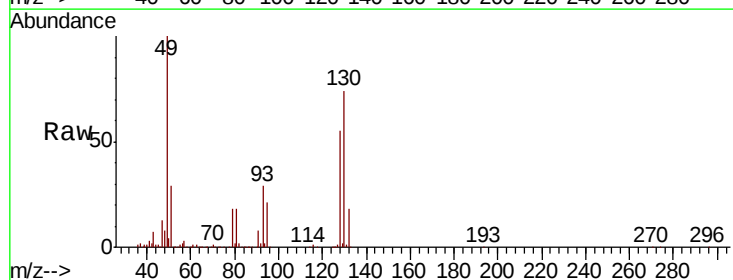
Instrument :
MSVOA_L
ClientSampleId :

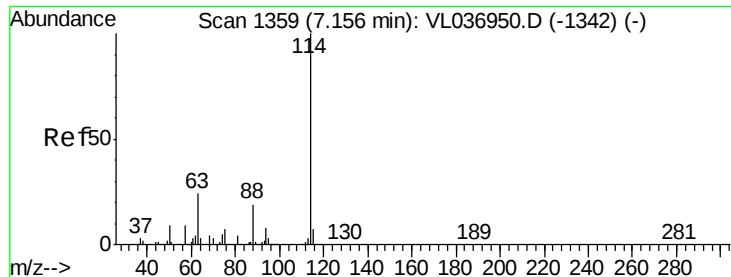
Tot Ion: 57 Resp: 27518
Ion Ratio Lower Upper
57 100
41 121.7 70.5 105.7#
43 269.5 165.8 248.8#
56 64.7 42.2 63.4#



#31
cis-1,2-Dichloroethene
Concen: 0.044 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.15 min
Lab File: VL037139.D
Acq: 8 Jun 2021 19:38

Tgt Ion: 61 Resp: 6389
Ion Ratio Lower Upper
61 100
96 31.8 55.9 83.9#
98 0.0 35.6 53.4#

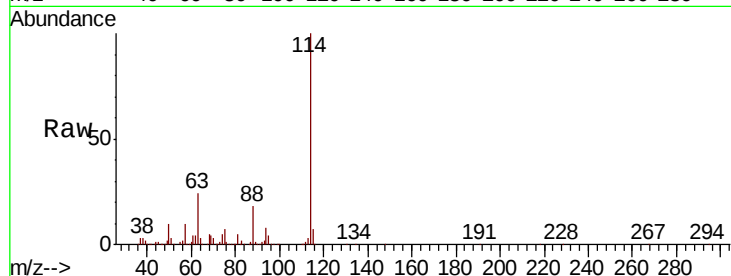




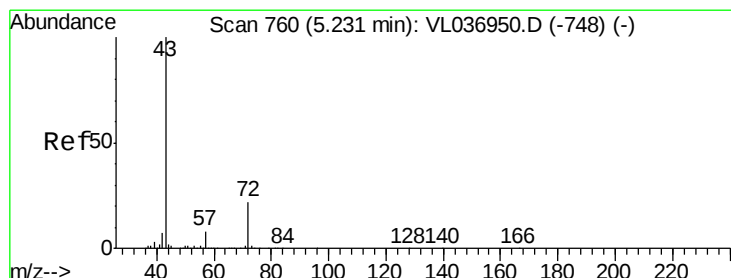
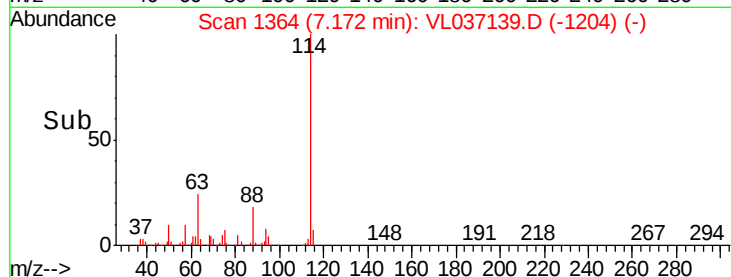
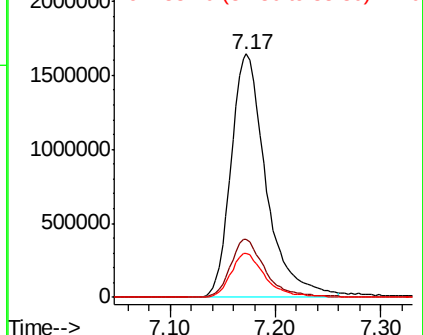
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. 0.02 min
Lab File: VL037139.D
Acq: 8 Jun 2021 19:38

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:114 Resp: 3796545
Ion Ratio Lower Upper
114 100
63 24.1 19.6 29.4
88 17.9 14.6 21.8

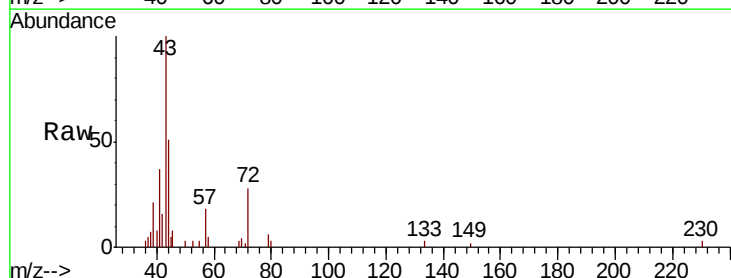


Abundance Ion 114.10 (113.80 to 114.80): VL0
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0

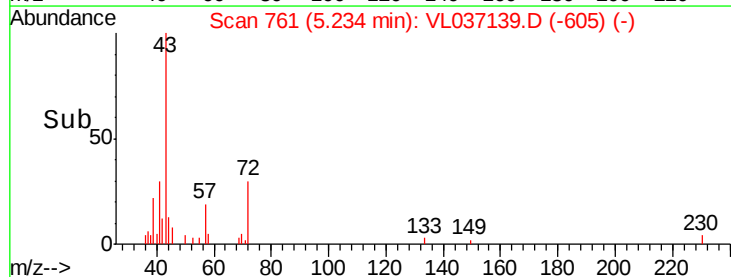
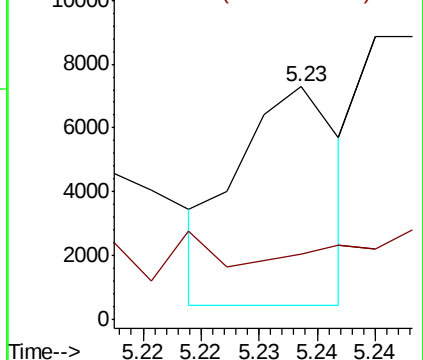


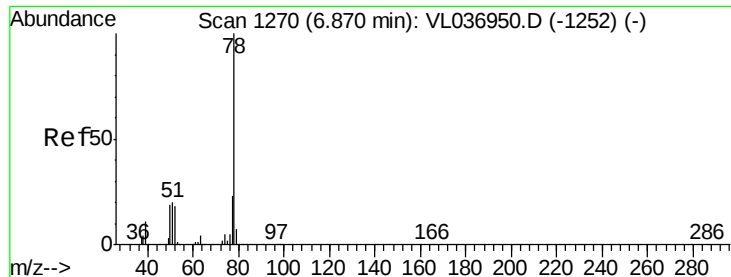
#34
2-Butanone
Concen: 0.030 ppbv
RT: 5.23 min Scan# 761
Delta R.T. 0.00 min
Lab File: VL037139.D
Acq: 8 Jun 2021 19:38

Tgt Ion: 43 Resp: 4150
Ion Ratio Lower Upper
43 100
72 0.0 19.0 28.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 72.10 (71.80 to 72.80): VL0

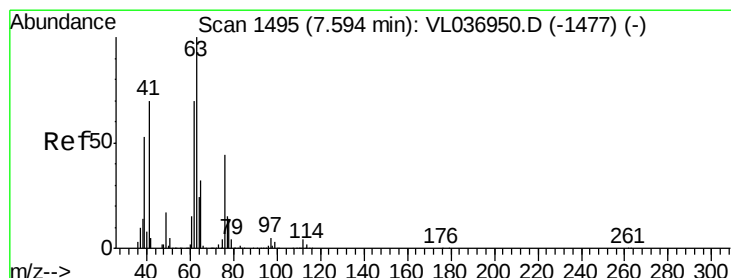
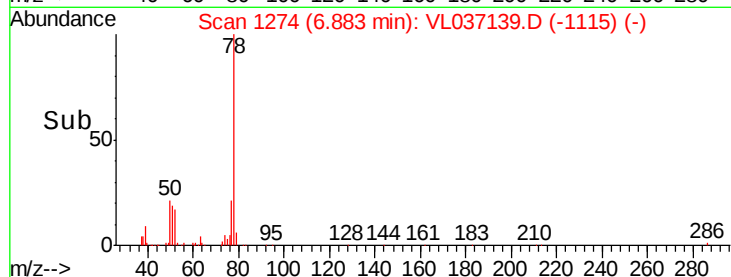
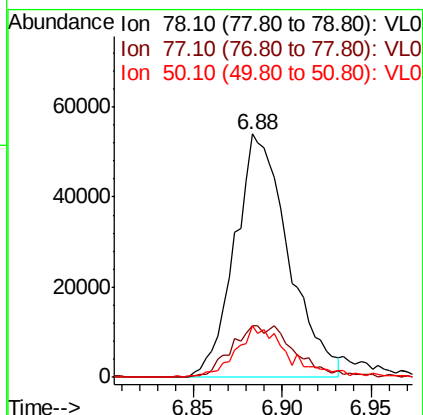
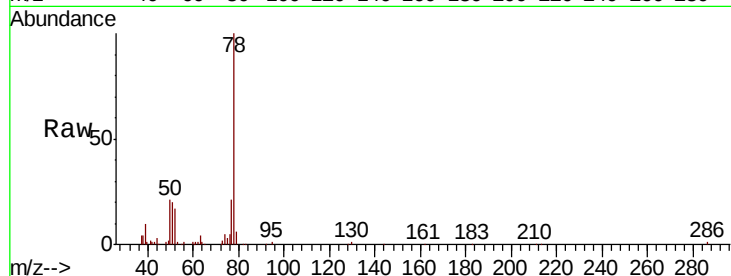




#36
Benzene
Concen: 0.347 ppbv
RT: 6.88 min Scan# 1274
Delta R.T. 0.01 min
Lab File: VL037139.D
Acq: 8 Jun 2021 19:38

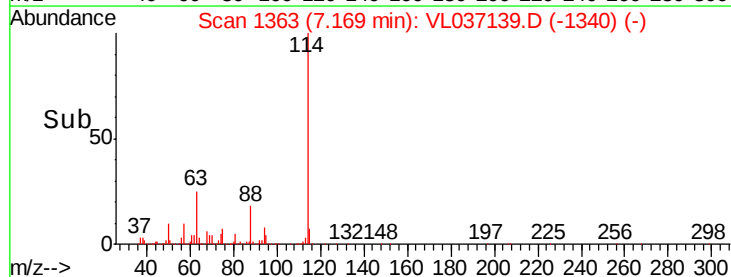
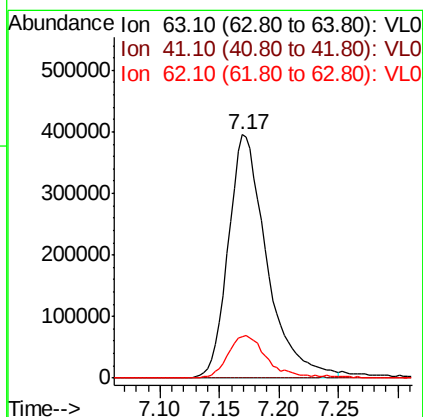
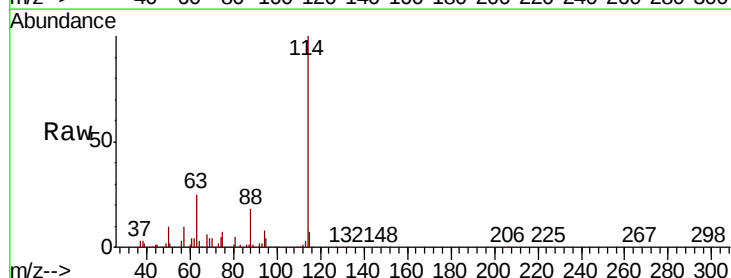
Instrument :
MSVOA_L
ClientSampleId :

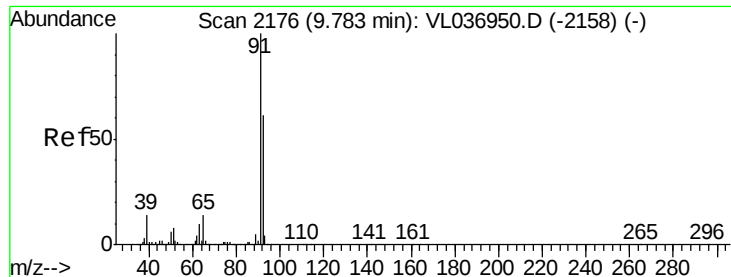
Tot Ion	Ratio	Lower	Upper
78	100		
77	21.3	18.6	28.0
50	20.8	15.0	22.4



#39
1,2-Dichloropropane
Concen: 7.078 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.42 min
Lab File: VL037139.D
Acq: 8 Jun 2021 19:38

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.1	55.7	83.5#
62	17.1	56.2	84.4#





#53

Toluene

Concen: 0.095 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. 0.02 min

Lab File: VL037139.D

Acq: 8 Jun 2021 19:38

Instrument :

MSVOA_L

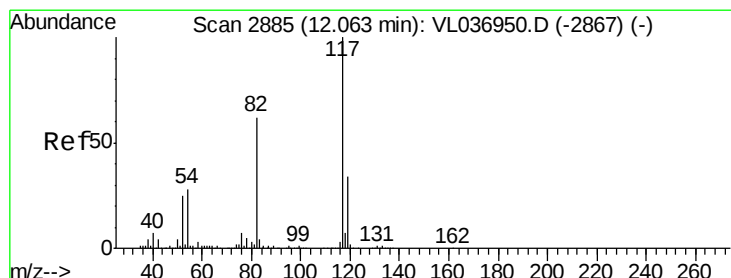
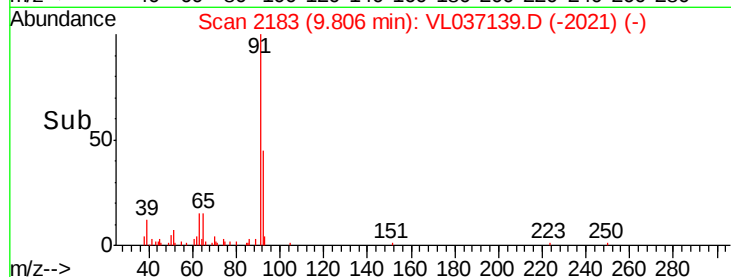
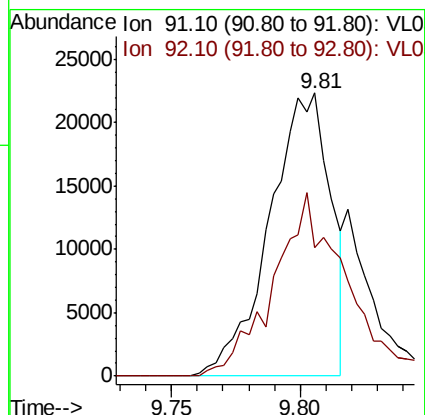
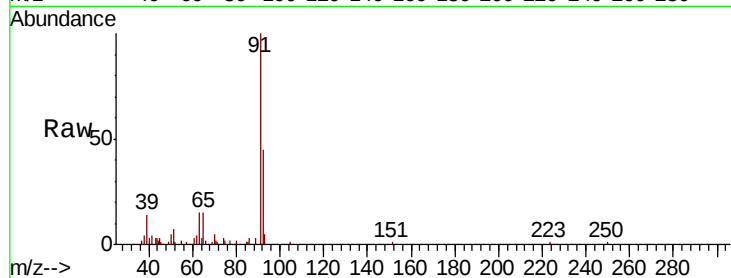
ClientSampled :

Tot Ion: 91 Resp: 36797

Ion Ratio Lower Upper

91 100

92 80.0 49.5 74.3#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. 0.02 min

Lab File: VL037139.D

Acq: 8 Jun 2021 19:38

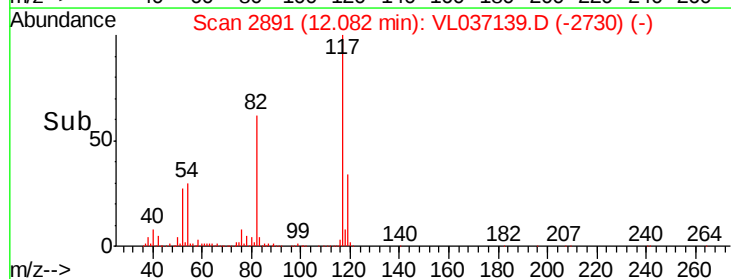
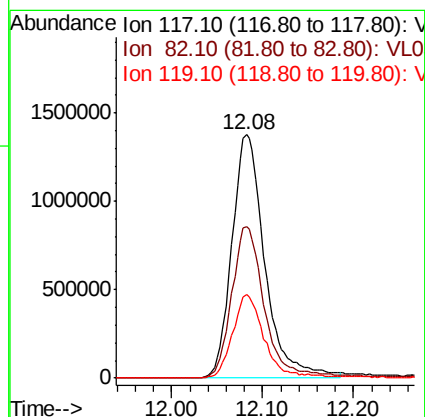
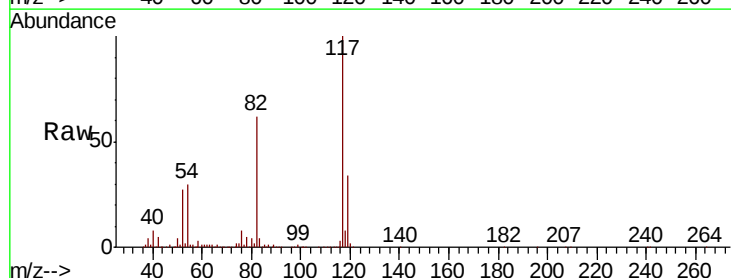
Tgt Ion: 117 Resp: 3468730

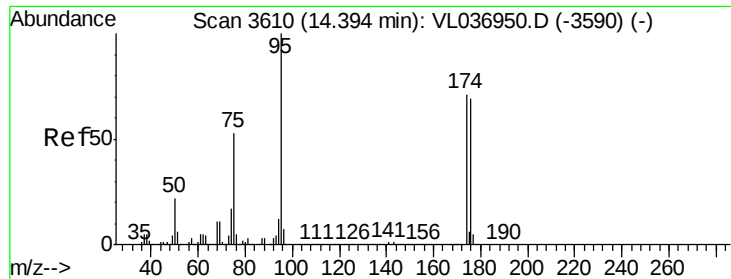
Ion Ratio Lower Upper

117 100

82 63.1 52.6 79.0

119 33.7 46.6 70.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.464 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. 0.02 min

Lab File: VL037139.D

Acq: 8 Jun 2021 19:38

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2466022

Ion Ratio Lower Upper

95 100

174 76.7 58.4 87.6

175 5.5 4.4 6.6

