

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\
 Data File : VL037240.D
 Acq On : 23 Jun 2021 10:42
 Operator : SY/AP
 Sample : M2797-03DL 200X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 24 03:48:58 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 16 14:06:32 2021
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1537259	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	4439757	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.07	117	3899365	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2876867	9.74	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

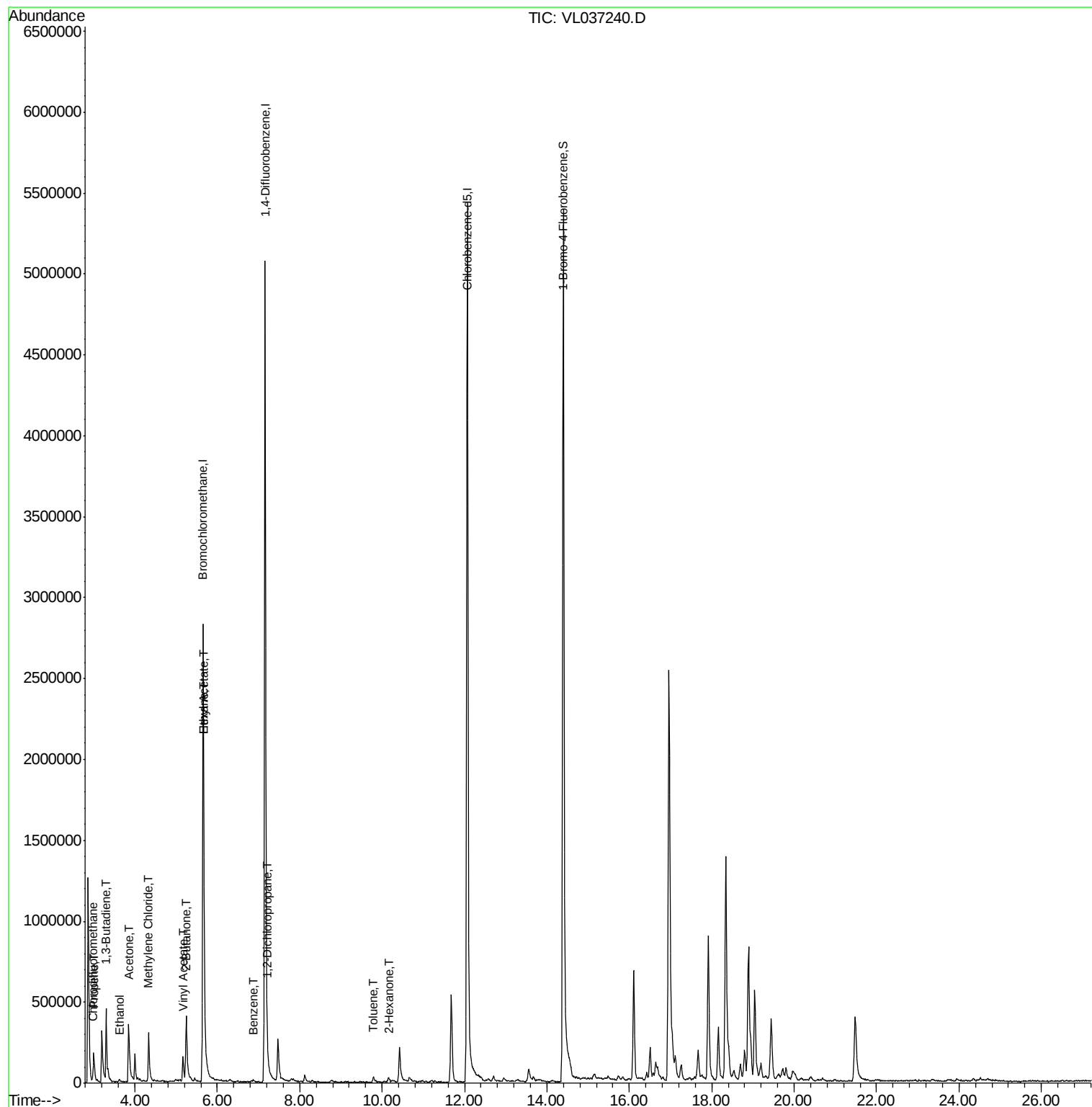
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.98	51	54657	0.183 ppbv	98
9) Propene	3.00	41	93724	0.981 ppbv	97
13) Ethanol	3.62	45	7533	0.510 ppbv #	7
15) Acetone	3.85	43	509288	2.938 ppbv #	85
16) 1,3-Butadiene	3.30	39	126756	1.237 ppbv #	20
20) Methylene Chloride	4.33	84	52285	0.504 ppbv	97
23) Vinyl Acetate	5.16	43	20411	0.082 ppbv #	21
25) Ethyl Acetate	5.68	43	73661	0.196 ppbv #	78
26) Hexane	5.68	57	104656	0.552 ppbv #	45
34) 2-Butanone	5.25	43	645296	3.737 ppbv	99
36) Benzene	6.87	78	7766	0.022 ppbv #	83
39) 1,2-Dichloropropane	7.22	63	12649	0.095 ppbv #	23
51) 2-Hexanone	10.15	43	13049	0.113 ppbv #	29
53) Toluene	9.79	91	22850	0.053 ppbv	85

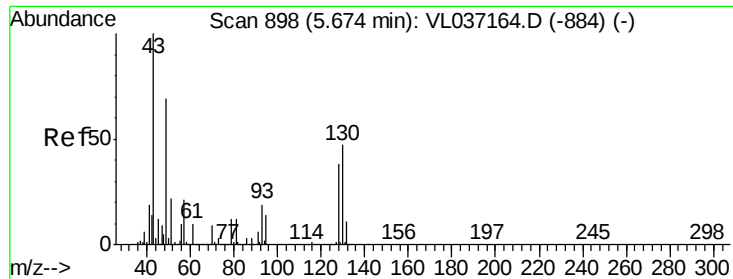
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 16 14:06:32 2021
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL037240.D

Acq: 23 Jun 2021 10:42

Instrument :

MSVOA_L

ClientSampleId :

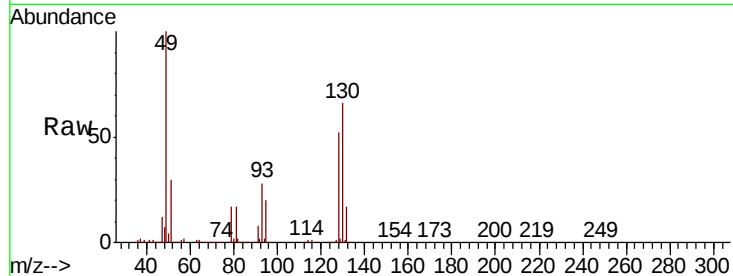
Tot Ion: 49 Resp: 1537259

Ion Ratio Lower Upper

49 100

128 56.5 29.3 88.0

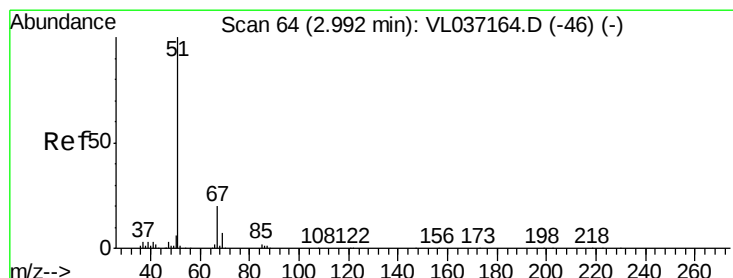
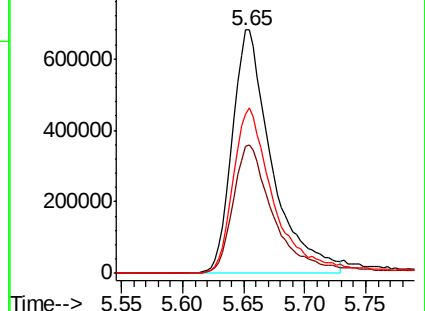
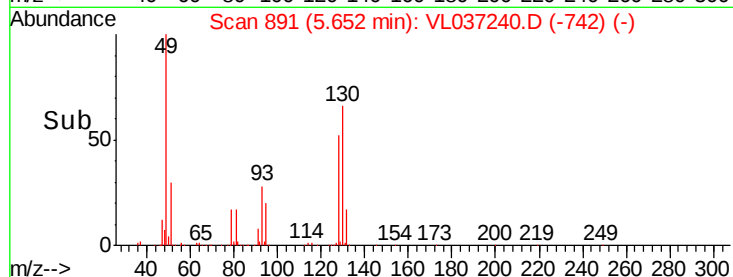
130 74.0 35.9 107.8



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



#3

Chlorodifluoromethane

Concen: 0.183 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL037240.D

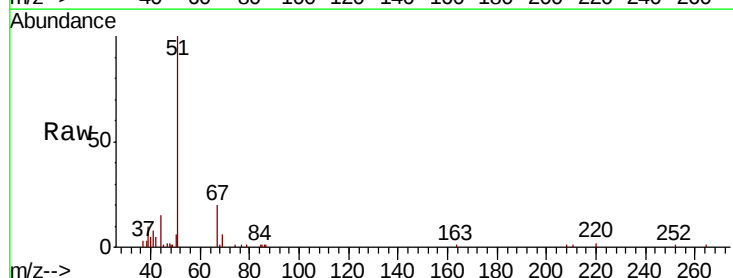
Acq: 23 Jun 2021 10:42

Tgt Ion: 51 Resp: 54657

Ion Ratio Lower Upper

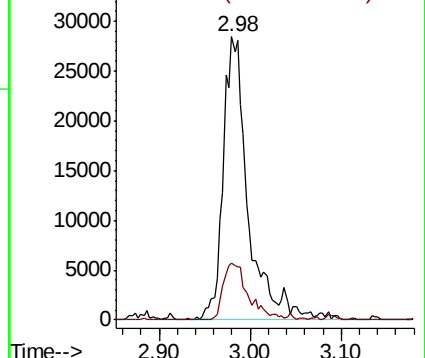
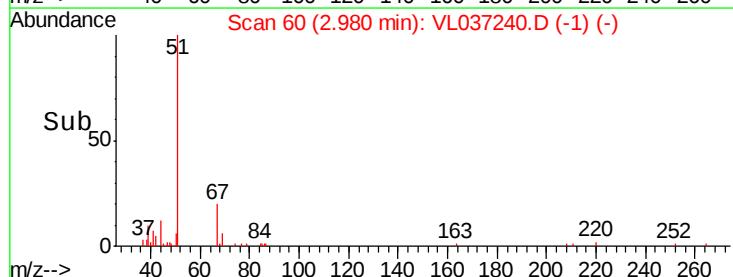
51 100

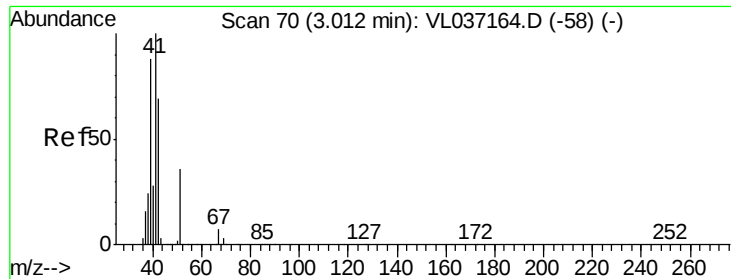
67 20.4 15.8 23.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.981 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL037240.D

Acq: 23 Jun 2021 10:42

Instrument :

MSVOA_L

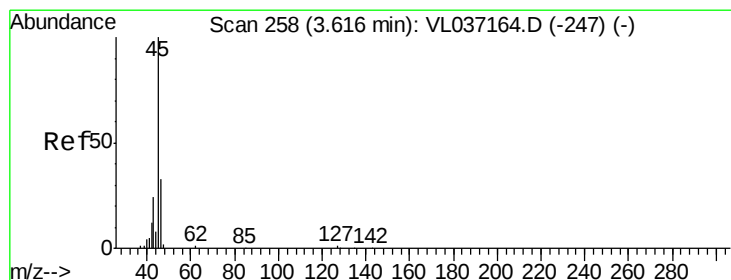
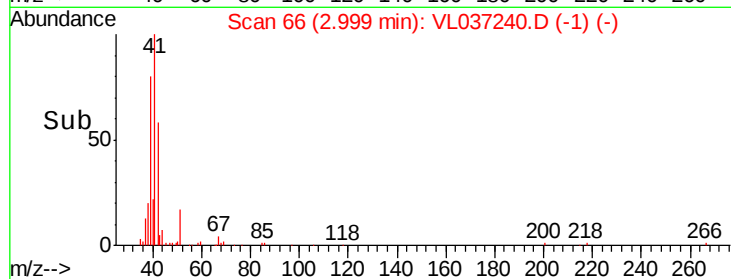
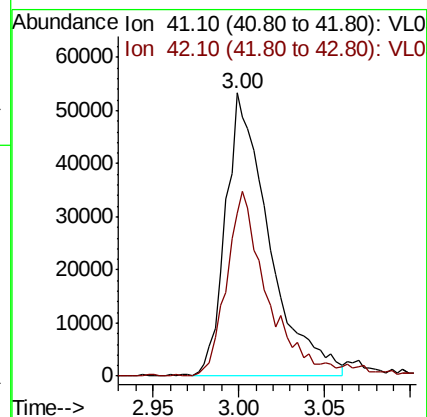
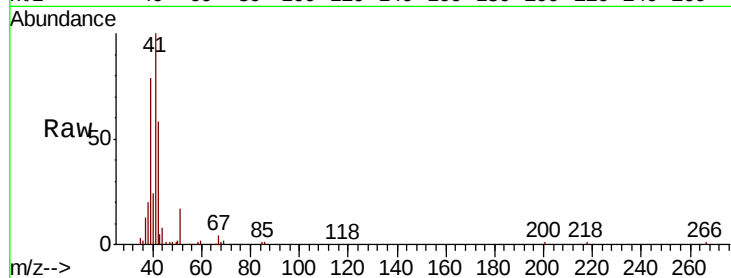
ClientSampled :

Tot Ion: 41 Resp: 93724

Ion Ratio Lower Upper

41 100

42 65.8 54.5 81.7



#13

Ethanol

Concen: 0.510 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.00 min

Lab File: VL037240.D

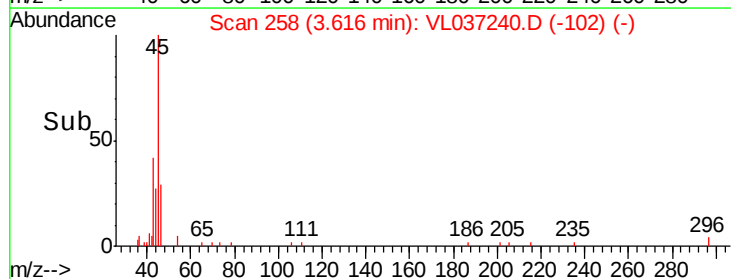
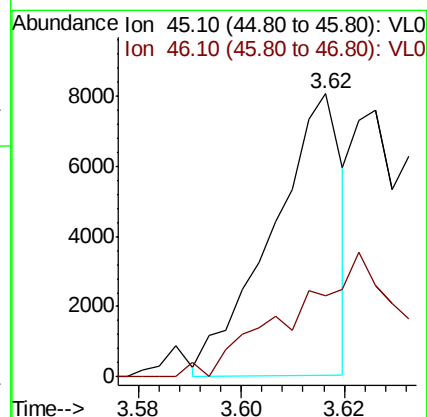
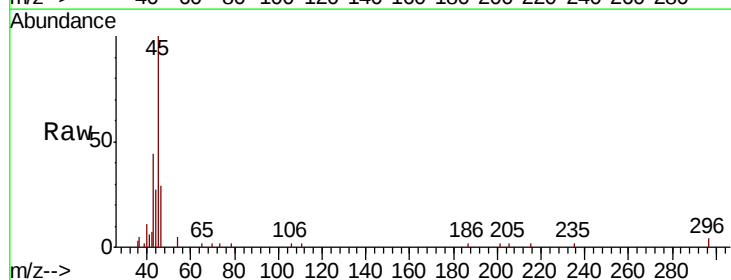
Acq: 23 Jun 2021 10:42

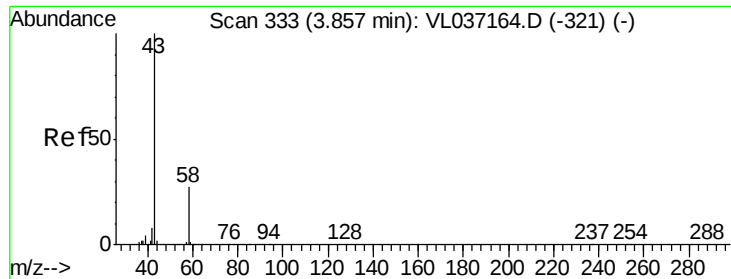
Tgt Ion: 45 Resp: 7533

Ion Ratio Lower Upper

45 100

46 0.0 34.2 137.0#





#15

Acetone

Concen: 2.938 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL037240.D

Acq: 23 Jun 2021 10:42

Instrument :

MSVOA_L

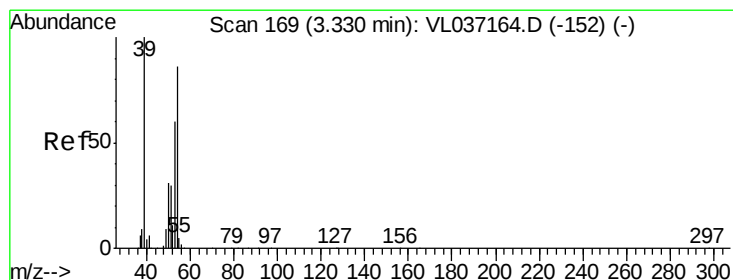
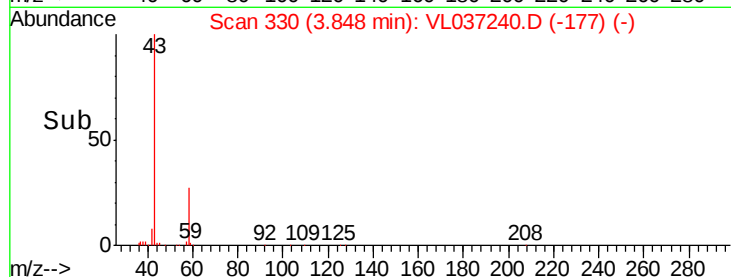
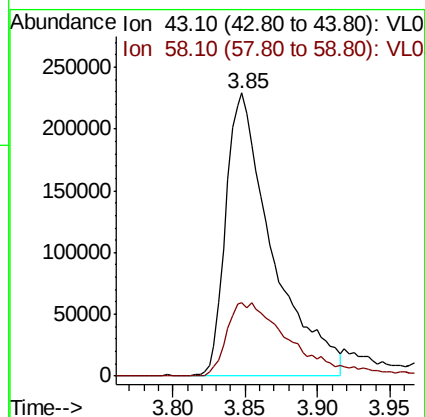
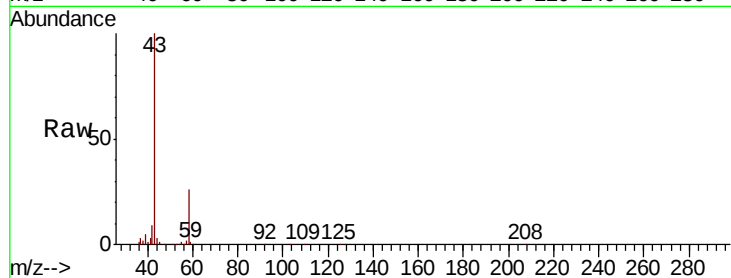
ClientSampled :

Tot Ion: 43 Resp: 509288

Ion Ratio Lower Upper

43 100

58 37.6 23.7 35.5#



#16

1,3-Butadiene

Concen: 1.237 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.03 min

Lab File: VL037240.D

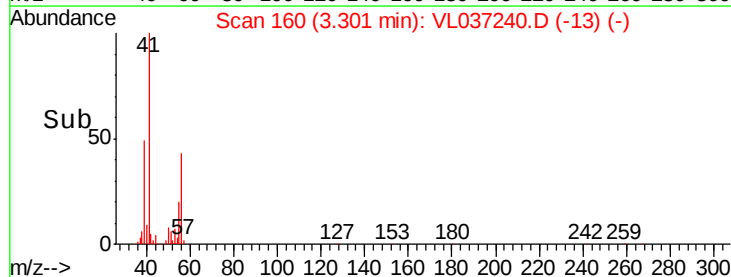
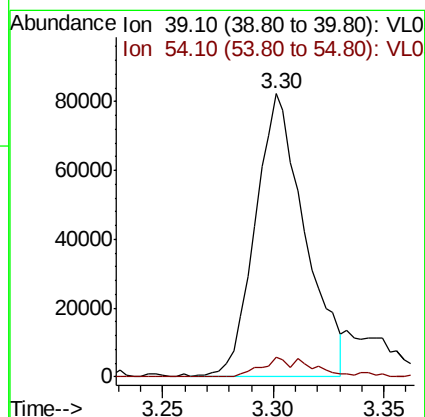
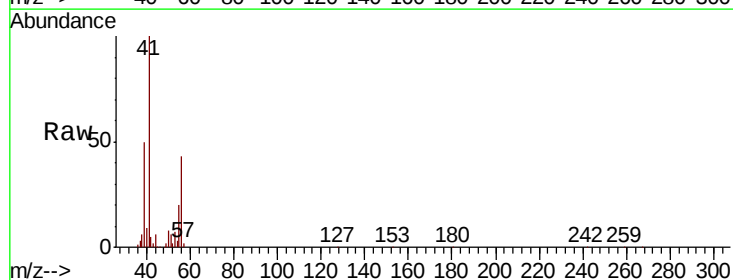
Acq: 23 Jun 2021 10:42

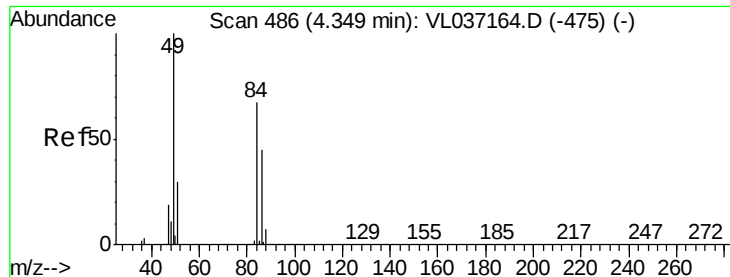
Tgt Ion: 39 Resp: 126756

Ion Ratio Lower Upper

39 100

54 7.7 61.2 91.8#

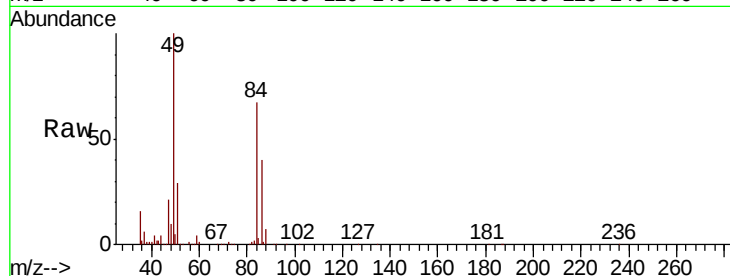




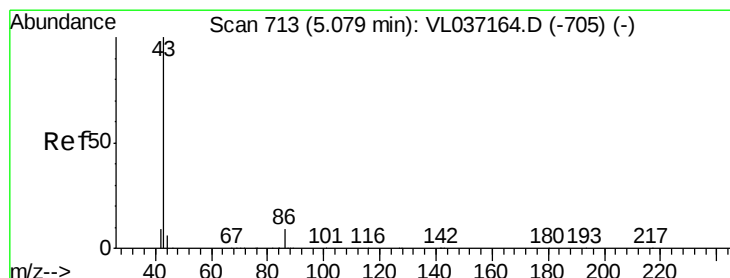
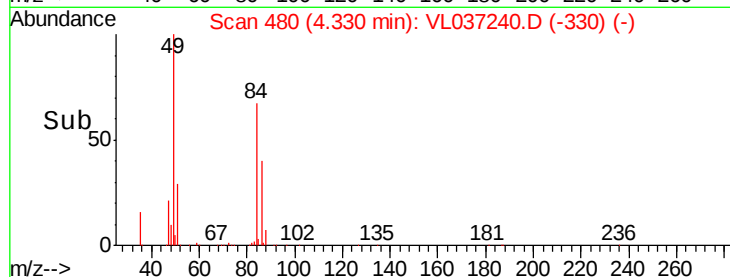
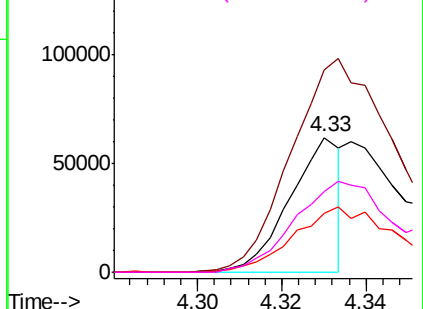
#20
Methvlene Chloride
Concen: 0.504 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.02 min
Lab File: VL037240.D
Acq: 23 Jun 2021 10:42

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	84	Resp:	52285
Ion	Ratio	Lower	Upper
84	100		
49	149.5	119.7	179.5
51	43.8	36.1	54.1
86	59.4	53.7	80.5

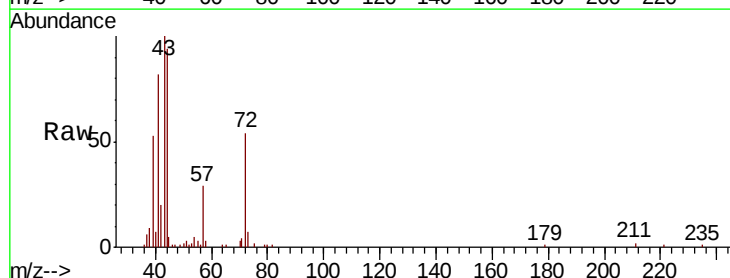


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

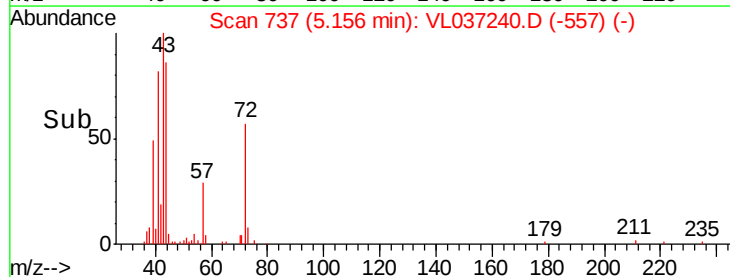
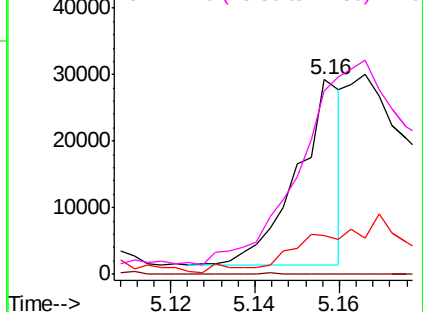


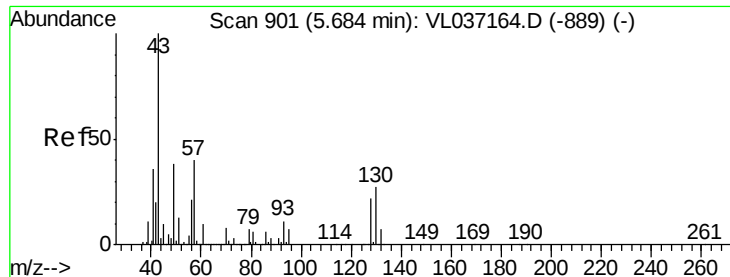
#23
Vinyl Acetate
Concen: 0.082 ppbv
RT: 5.16 min Scan# 737
Delta R.T. 0.08 min
Lab File: VL037240.D
Acq: 23 Jun 2021 10:42

Tgt Ion:	43	Resp:	20411
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.8	8.8#
42	19.3	8.2	12.2#
44	92.6	4.2	6.4#



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

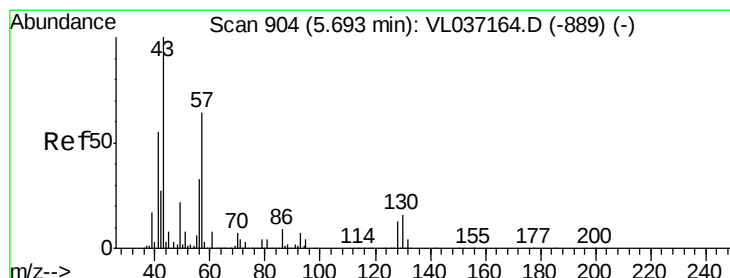
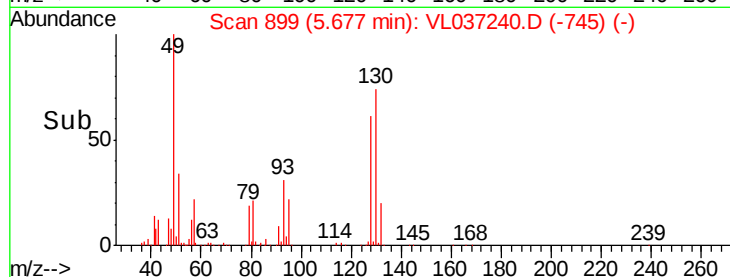
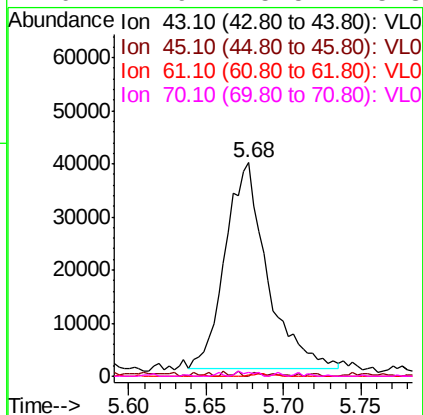
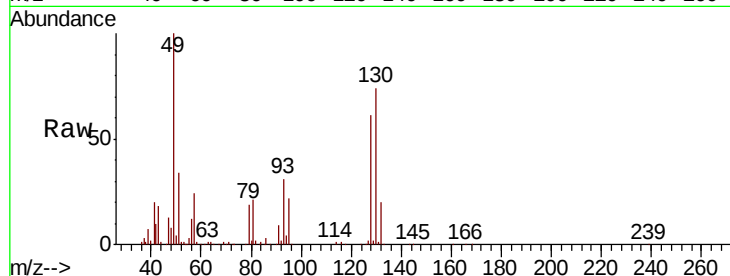




#25
Ethyl Acetate
Concen: 0.196 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL037240.D
Acq: 23 Jun 2021 10:42

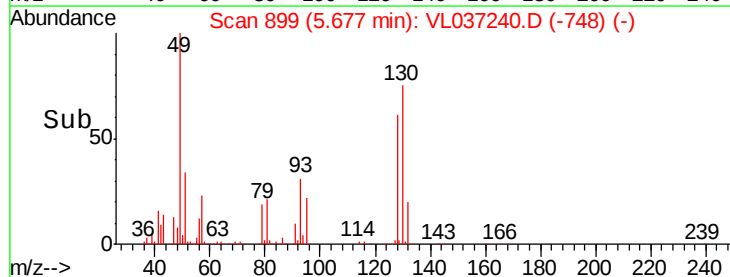
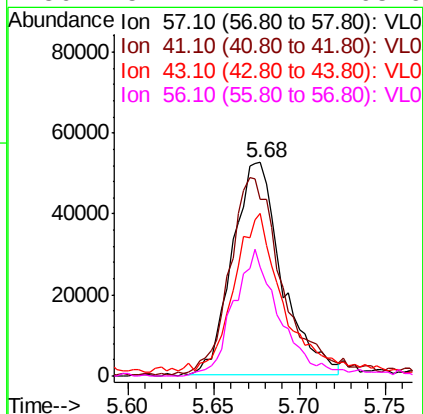
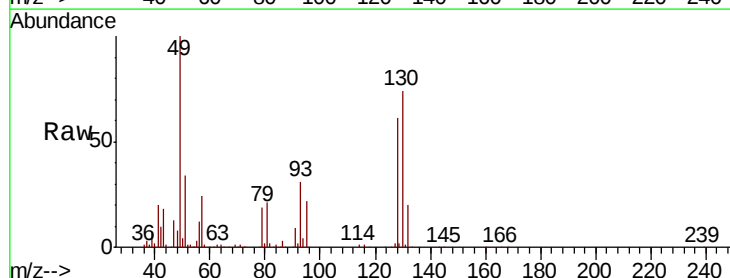
Instrument :
MSVOA_L
ClientSampleId :

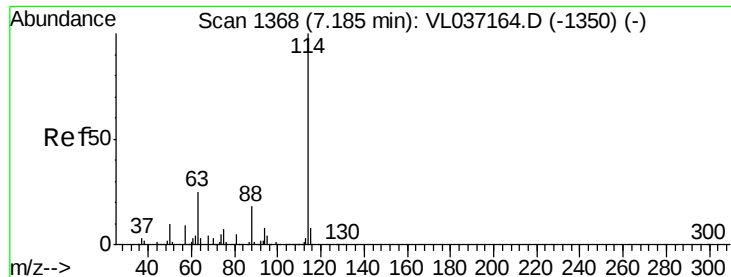
Tot Ion:	43	Resp:	73661
Ion	Ratio	Lower	Upper
43	100		
45	1.6	8.0	12.0#
61	0.5	8.1	12.1#
70	1.9	5.5	8.3#



#26
Hexane
Concen: 0.552 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.02 min
Lab File: VL037240.D
Acq: 23 Jun 2021 10:42

Tgt Ion:	57	Resp:	104656
Ion	Ratio	Lower	Upper
57	100		
41	102.8	73.5	110.3
43	78.9	170.7	256.1#
56	57.7	42.4	63.6

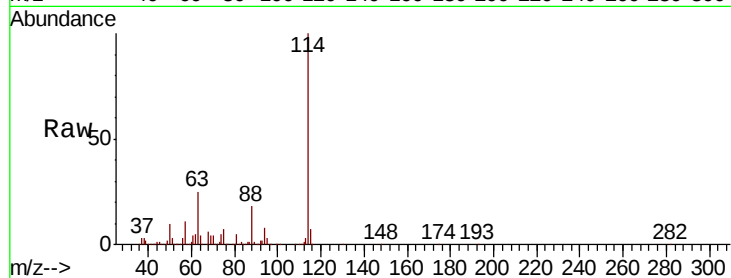




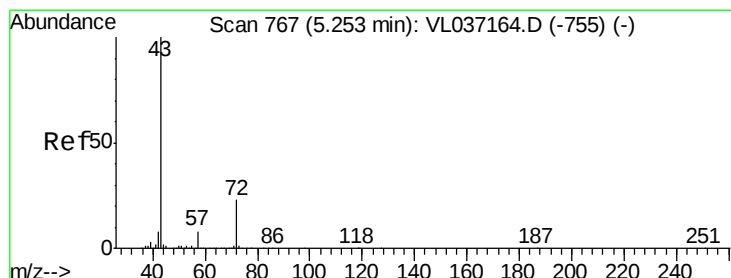
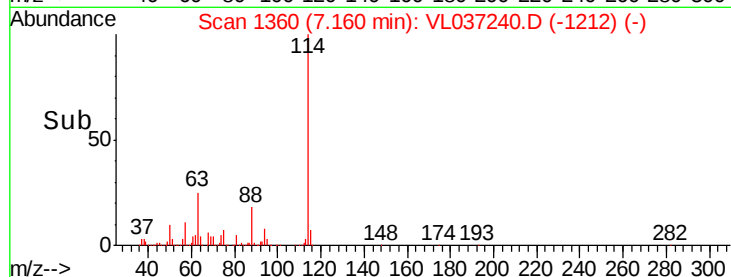
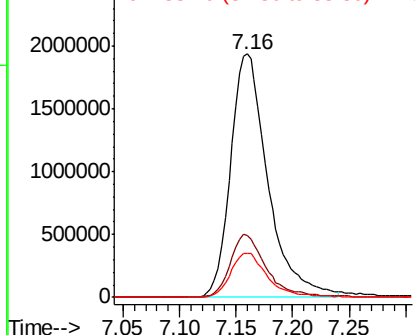
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.03 min
 Lab File: VL037240.D
 Acq: 23 Jun 2021 10:42

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:114 Resp: 4439757
 Ion Ratio Lower Upper
 114 100
 63 25.4 19.6 29.4
 88 18.5 14.2 21.2

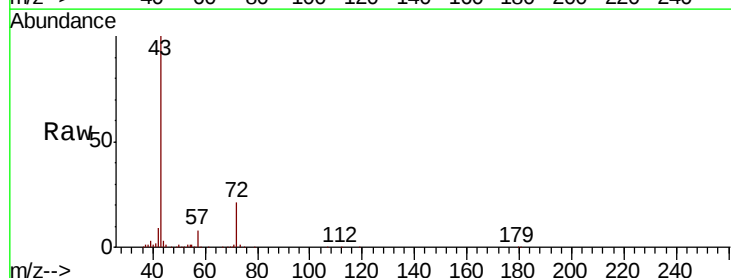


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

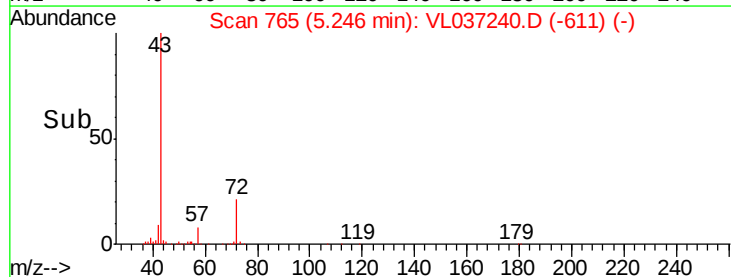
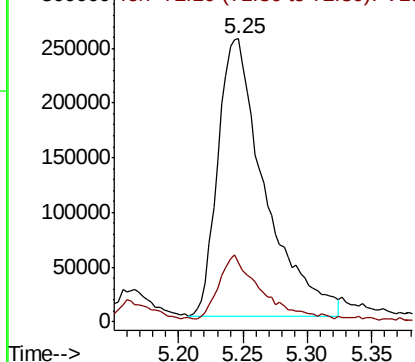


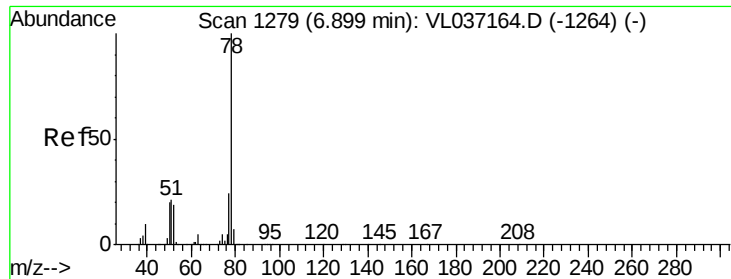
#34
 2-Butanone
 Concen: 3.737 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. -0.01 min
 Lab File: VL037240.D
 Acq: 23 Jun 2021 10:42

Tgt Ion: 43 Resp: 645296
 Ion Ratio Lower Upper
 43 100
 72 24.0 18.9 28.3



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





#36

Benzene

Concen: 0.022 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.03 min

Lab File: VL037240.D

Acq: 23 Jun 2021 10:42

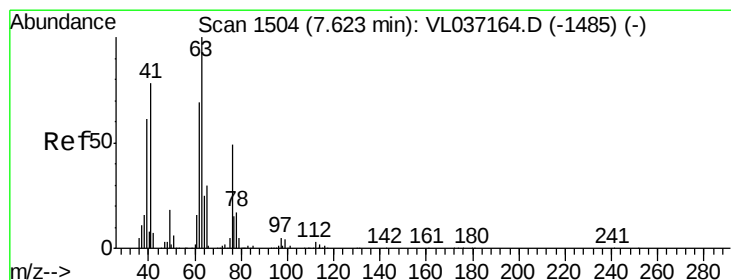
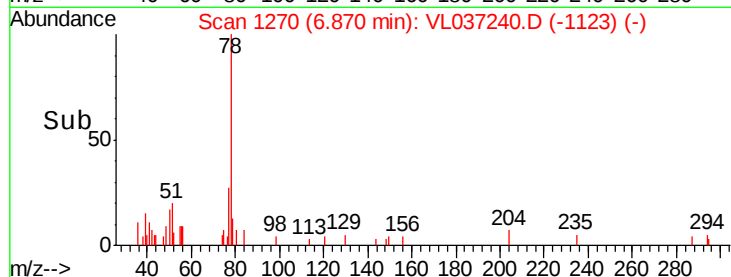
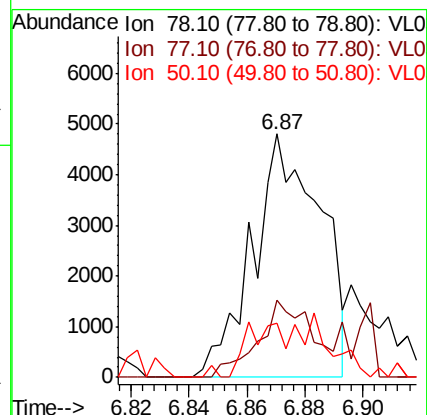
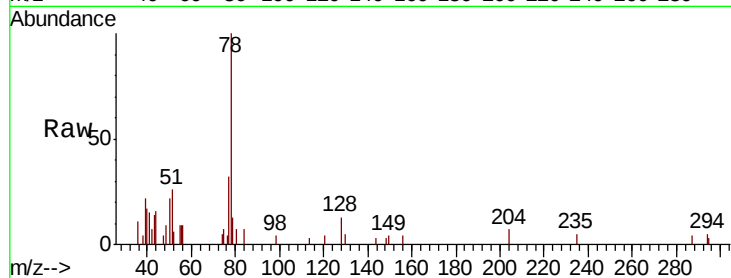
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 78 Resp: 7766

Ion	Ratio	Lower	Upper
78	100		
77	28.3	19.0	28.6
50	7.9	15.7	23.5#



#39

1,2-Dichloropropane

Concen: 0.095 ppbv

RT: 7.22 min Scan# 1378

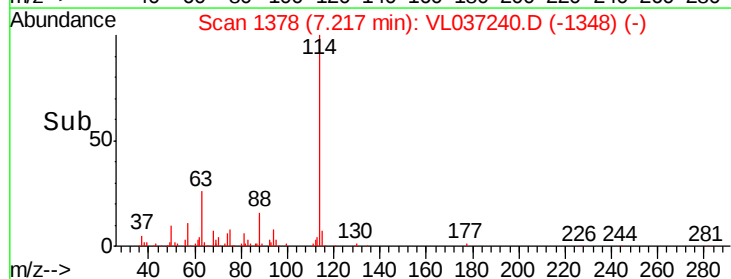
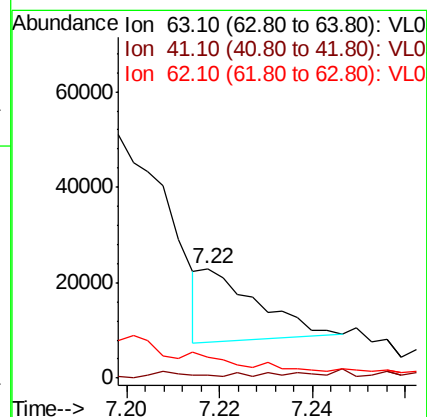
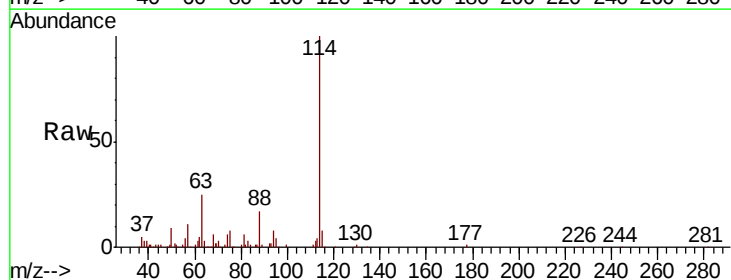
Delta R.T. -0.41 min

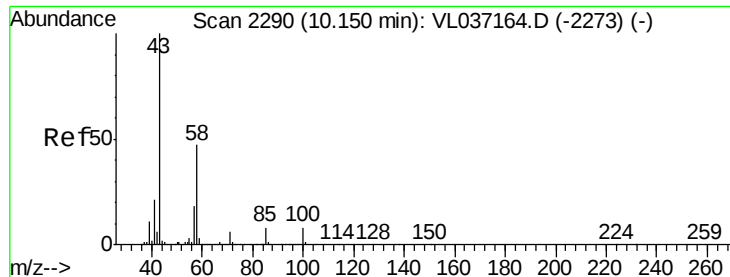
Lab File: VL037240.D

Acq: 23 Jun 2021 10:42

Tgt Ion: 63 Resp: 12649

Ion	Ratio	Lower	Upper
63	100		
41	0.6	62.0	93.0#
62	17.5	54.9	82.3#

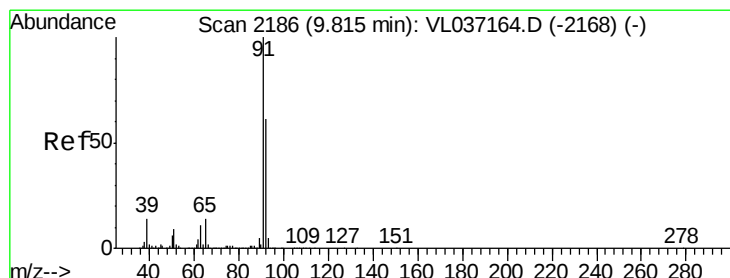
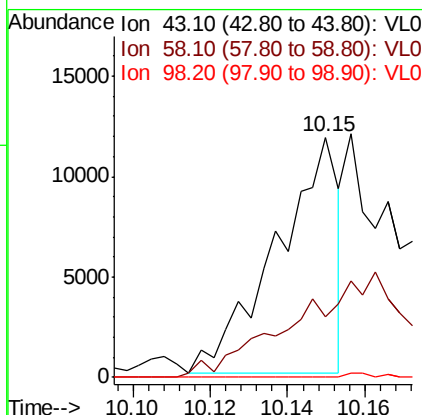
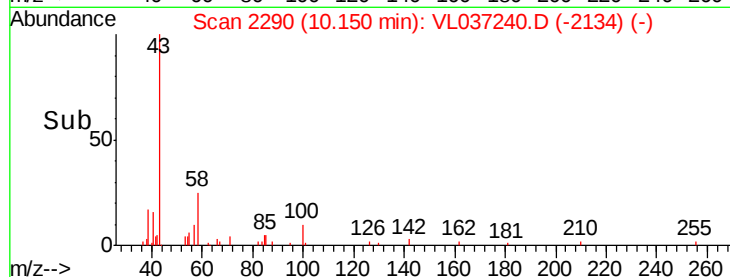
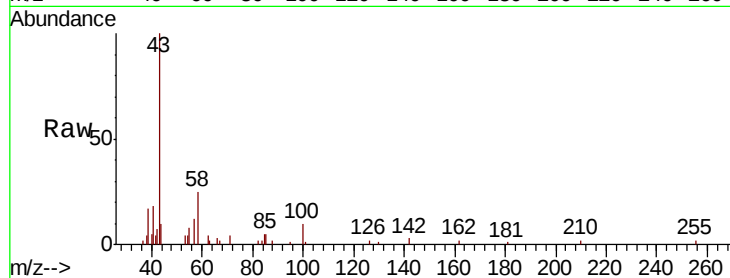




#51
2-Hexanone
Concen: 0.113 ppbv
RT: 10.15 min Scan# 2290
Delta R.T. 0.00 min
Lab File: VL037240.D
Acq: 23 Jun 2021 10:42

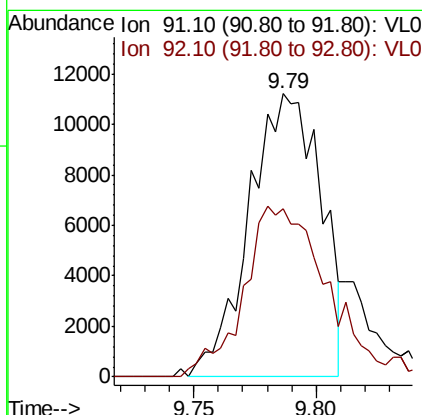
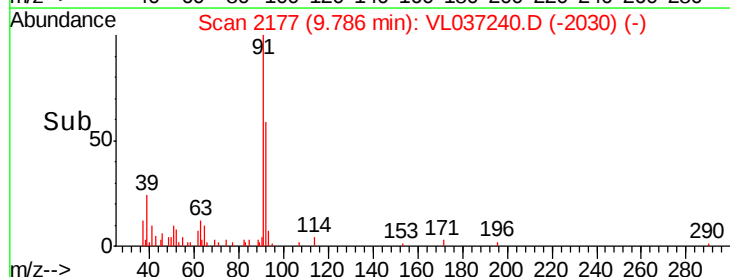
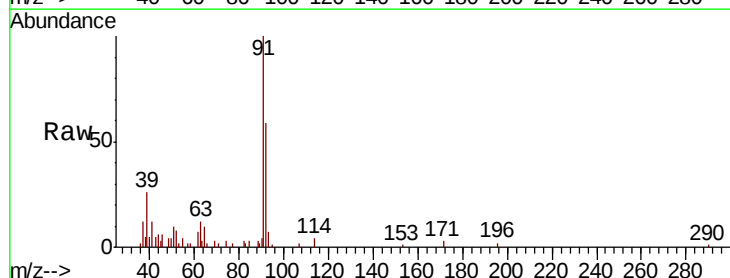
Instrument :
MSVOA_L
ClientSampleId :

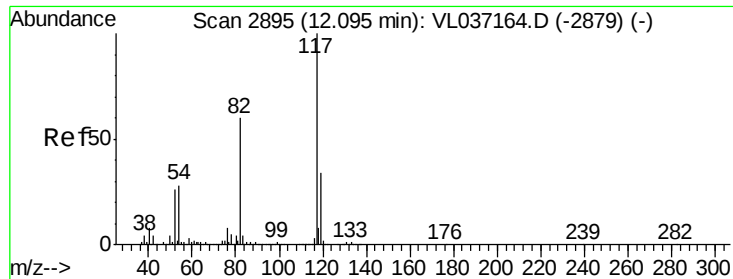
Tot Ion: 43 Resp: 13049
Ion Ratio Lower Upper
43 100
58 0.0 38.4 57.6#
98 0.0 0.3 0.5#



#53
Toluene
Concen: 0.053 ppbv
RT: 9.79 min Scan# 2177
Delta R.T. -0.03 min
Lab File: VL037240.D
Acq: 23 Jun 2021 10:42

Tgt Ion: 91 Resp: 22850
Ion Ratio Lower Upper
91 100
92 71.8 48.3 72.5

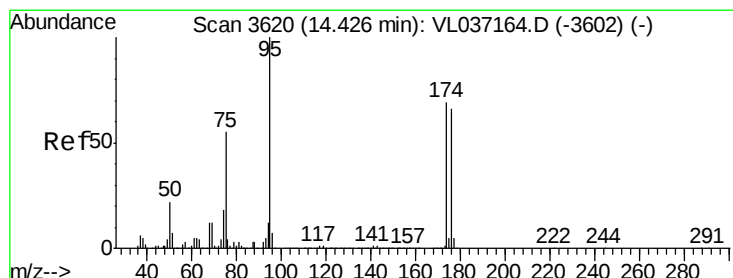
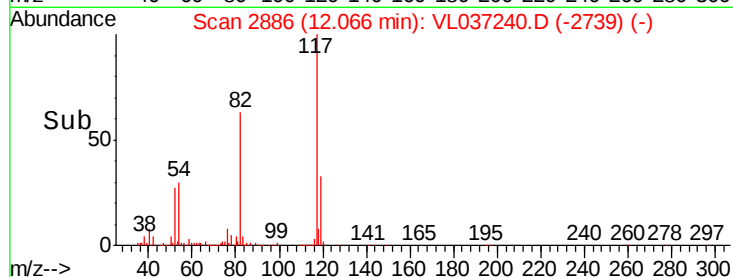
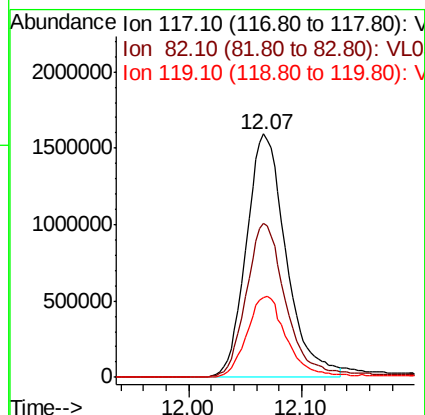
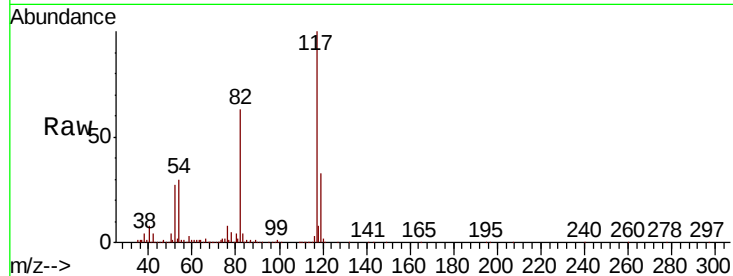




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. -0.03 min
Lab File: VL037240.D
Acq: 23 Jun 2021 10:42

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3899365
Ion Ratio Lower Upper
117 100
82 66.0 51.7 77.5
119 34.6 47.6 71.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.736 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. -0.03 min
Lab File: VL037240.D
Acq: 23 Jun 2021 10:42

Tgt Ion: 95 Resp: 2876867
Ion Ratio Lower Upper
95 100
174 75.2 57.0 85.4
175 5.2 4.4 6.6

