

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062921\
 Data File : VL037258.D
 Acq On : 29 Jun 2021 20:49
 Operator : SY/AP
 Sample : M2887-05DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 30 05:22:53 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	5.66	49	1615033	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	4770832	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	4232364	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	3145394	9.81	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%	

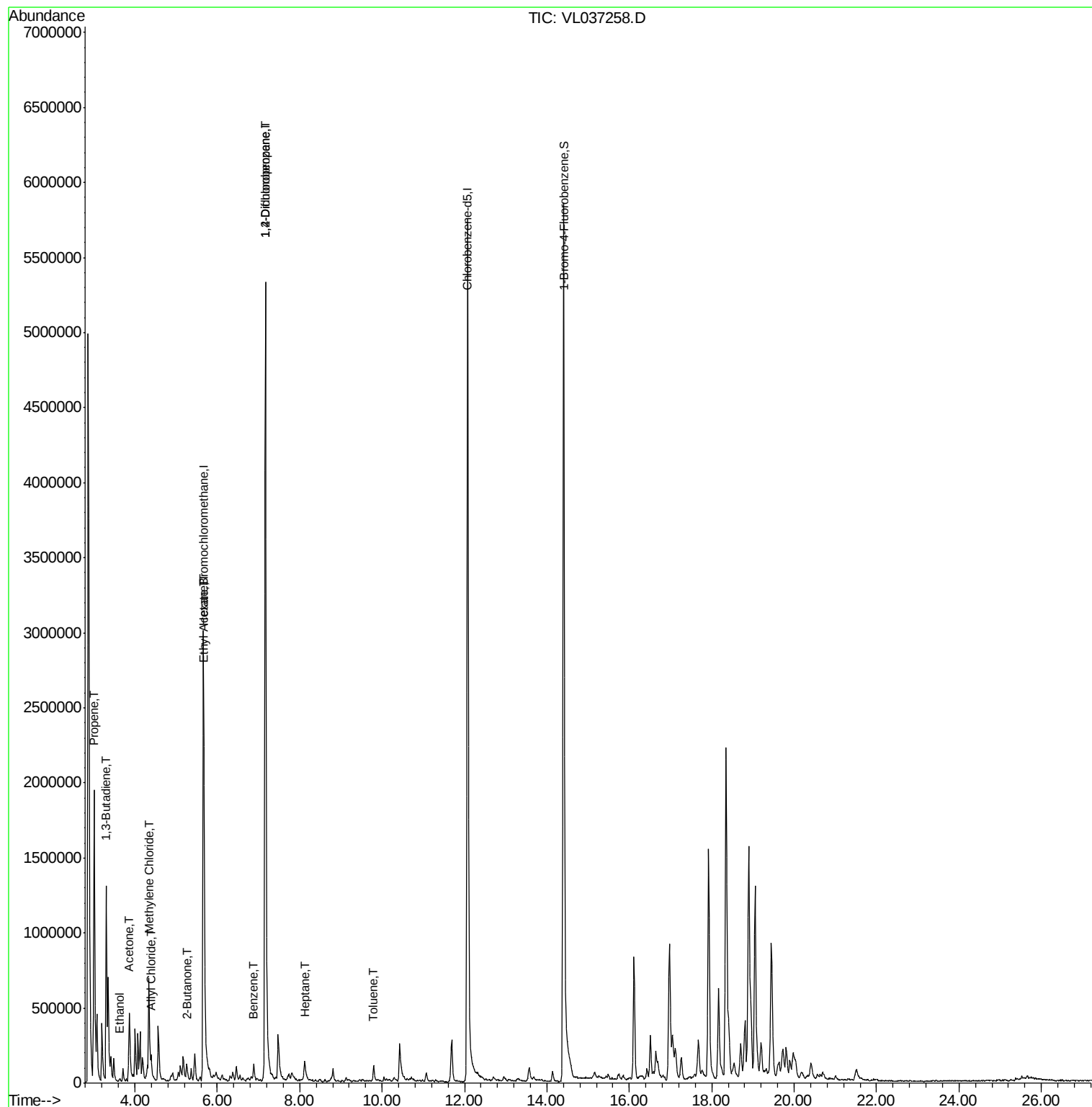
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	1060150	10.558	ppbv	94
10) Heptane	8.11	43	42942	0.177	ppbv #	77
13) Ethanol	3.62	45	8182	0.527	ppbv #	7
15) Acetone	3.85	43	477659	2.623	ppbv	94
16) 1,3-Butadiene	3.30	39	478052	4.440	ppbv #	33
20) Methylene Chloride	4.34	84	287306	2.635	ppbv	93
21) Allyl Chloride	4.39	41	11502	0.084	ppbv #	1
25) Ethyl Acetate	5.68	43	163940	0.416	ppbv #	78
26) Hexane	5.68	57	237941	1.194	ppbv #	43
34) 2-Butanone	5.25	43	60085	0.324	ppbv #	52
36) Benzene	6.88	78	98395	0.255	ppbv	99
39) 1,2-Dichloropropane	7.17	63	1151381	8.032	ppbv #	24
53) Toluene	9.80	91	81062	0.176	ppbv	96

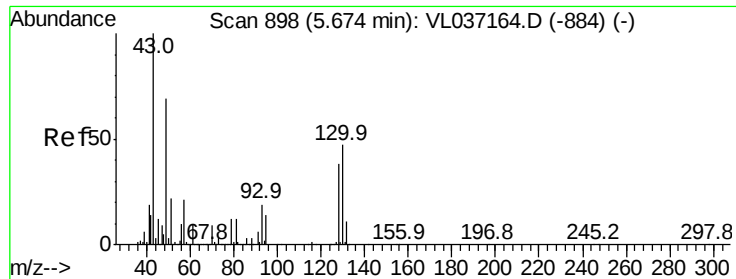
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
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QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.02 min

Lab File: VL037258.D

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MSVOA_L

ClientSampleId :

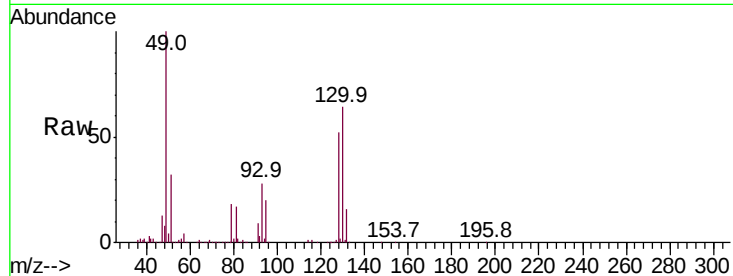
Tot Ion: 49 Resp: 1615033

Ion Ratio Lower Upper

49 100

128 55.8 29.3 88.0

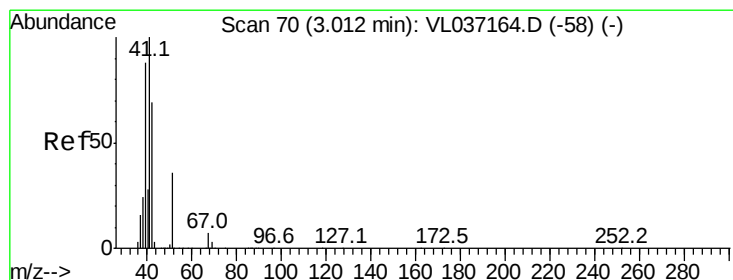
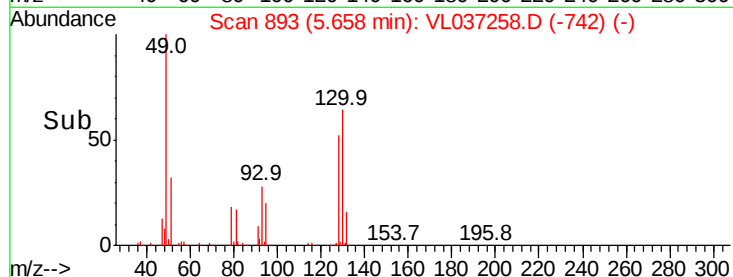
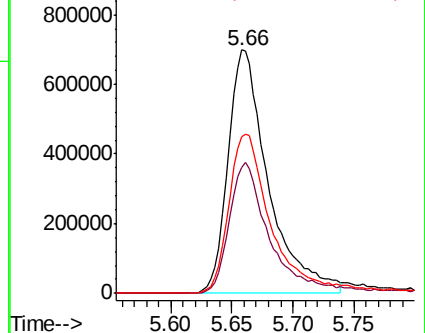
130 72.9 35.9 107.8



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



#9

Propene

Concen: 10.558 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL037258.D

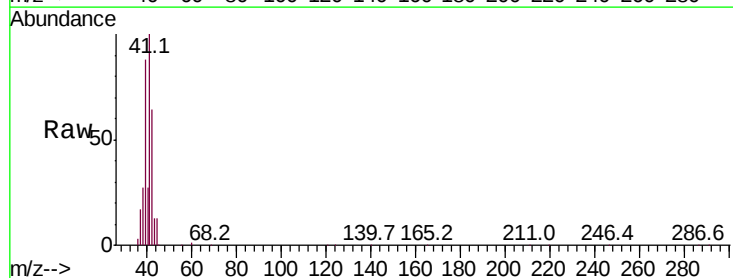
Acq: 29 Jun 2021 20:49

Tgt Ion: 41 Resp: 1060150

Ion Ratio Lower Upper

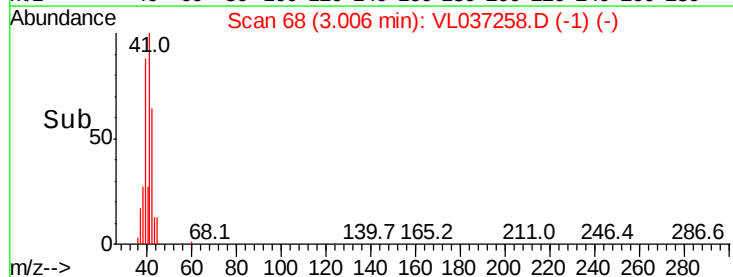
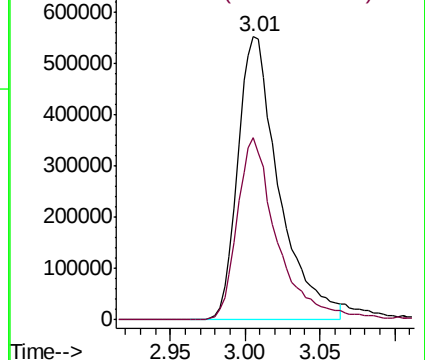
41 100

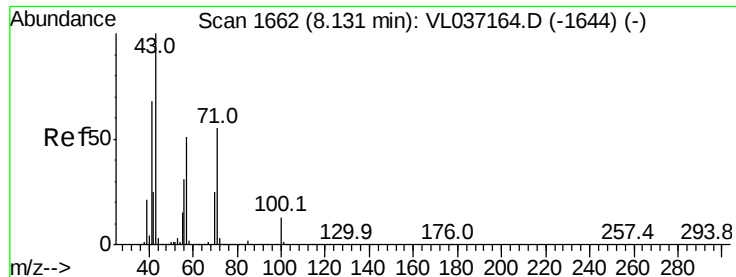
42 63.4 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.177 ppbv

RT: 8.11 min Scan# 1656

Delta R.T. -0.02 min

Lab File: VL037258.D

Acq: 29 Jun 2021 20:49

Instrument :

MSVOA_L

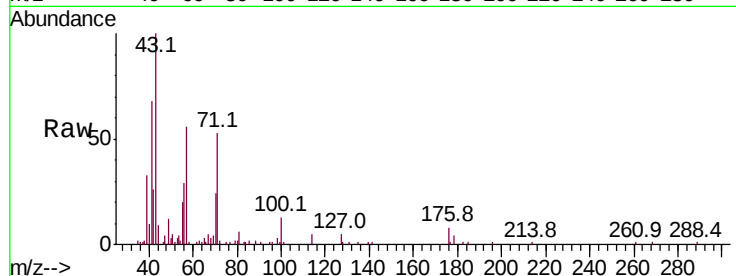
ClientSampleId :

Tot Ion: 43 Resp: 42942

Ion Ratio Lower Upper

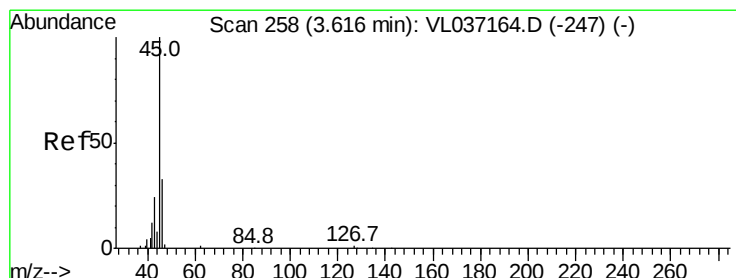
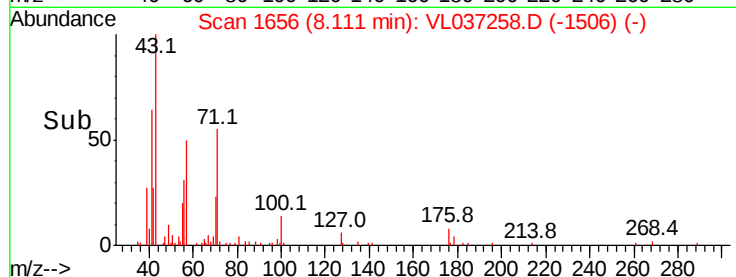
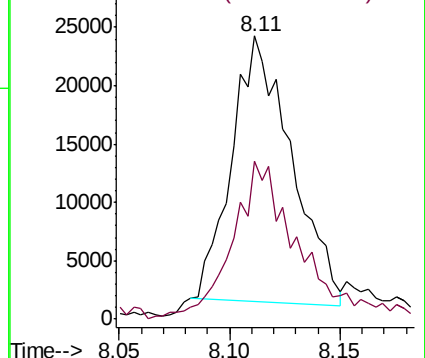
43 100

57 66.9 40.6 61.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#13

Ethanol

Concen: 0.527 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.00 min

Lab File: VL037258.D

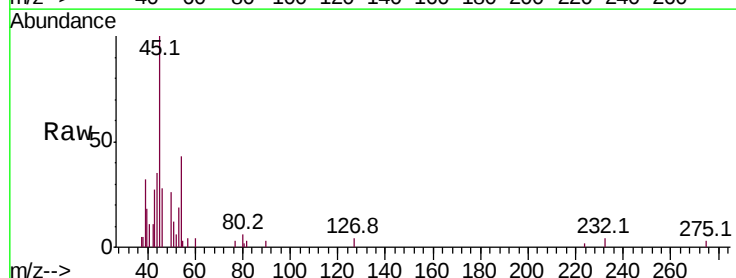
Acq: 29 Jun 2021 20:49

Tgt Ion: 45 Resp: 8182

Ion Ratio Lower Upper

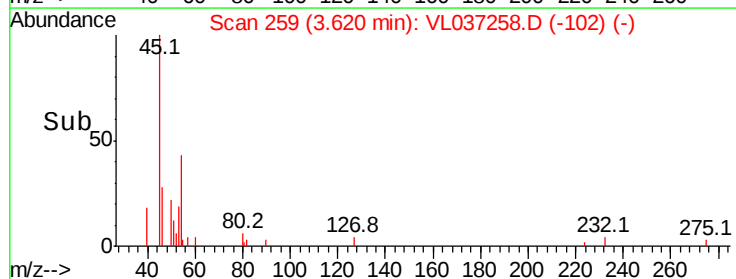
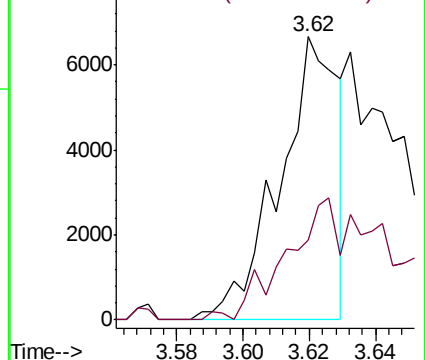
45 100

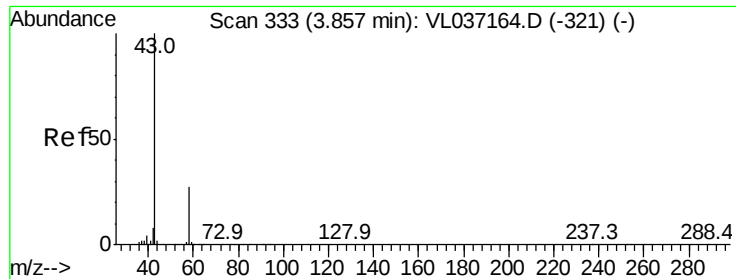
46 0.0 34.2 137.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 2.623 ppbv

RT: 3.85 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL037258.D

Acq: 29 Jun 2021 20:49

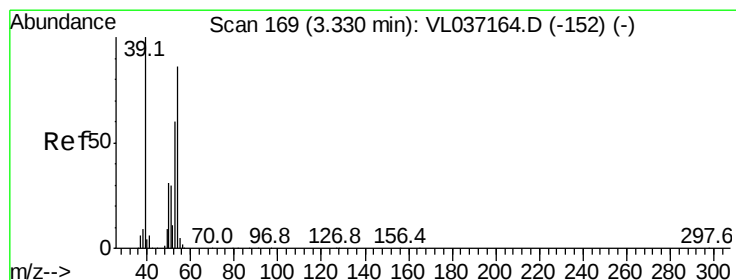
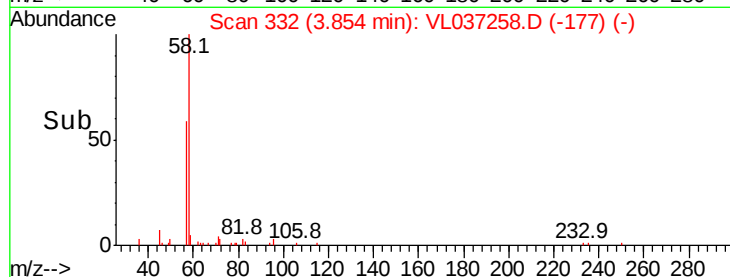
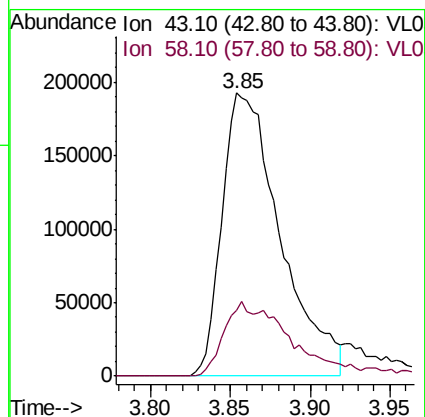
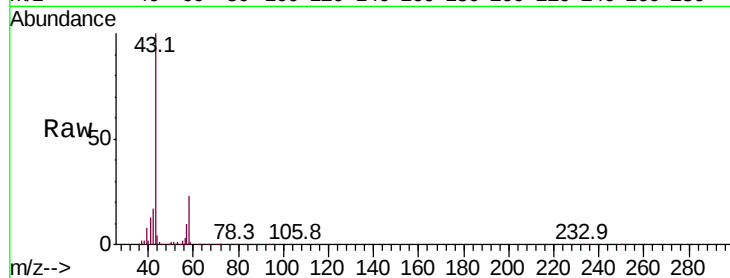
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 477659

Ion Ratio Lower Upper

43 100

58 32.9 23.7 35.5



#16

1,3-Butadiene

Concen: 4.440 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.03 min

Lab File: VL037258.D

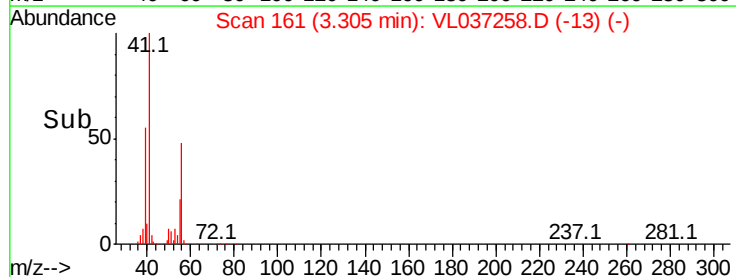
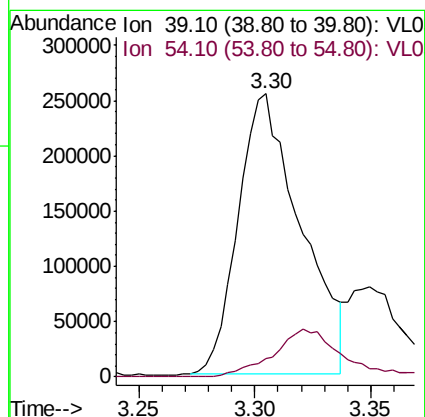
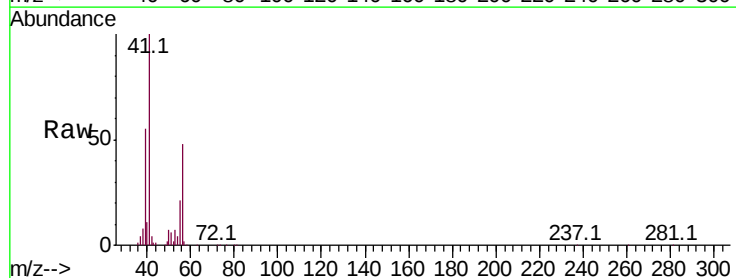
Acq: 29 Jun 2021 20:49

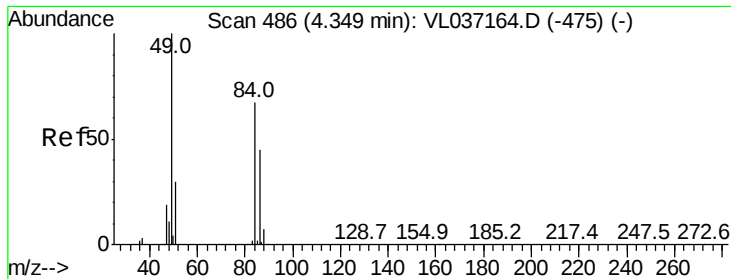
Tgt Ion: 39 Resp: 478052

Ion Ratio Lower Upper

39 100

54 18.9 61.2 91.8#

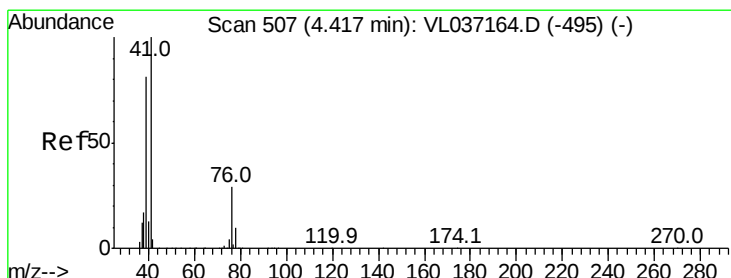
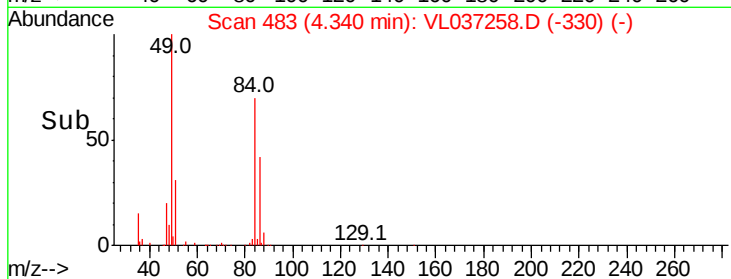
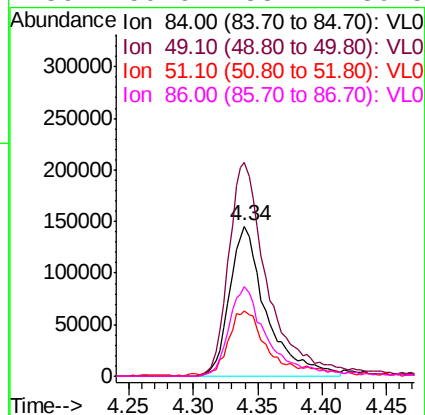
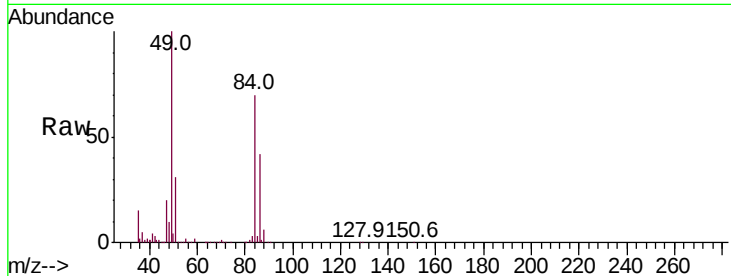




#20
Methylene Chloride
Concen: 2.635 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.01 min
Lab File: VL037258.D
Acq: 29 Jun 2021 20:49

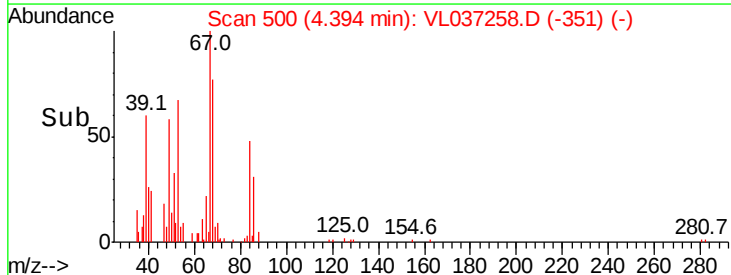
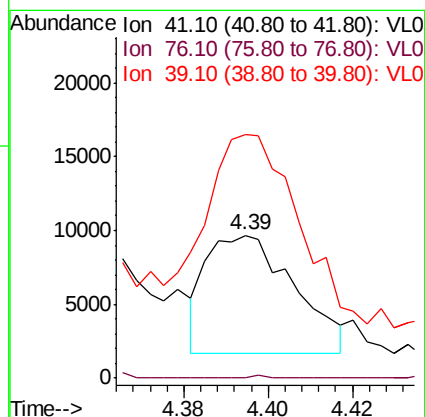
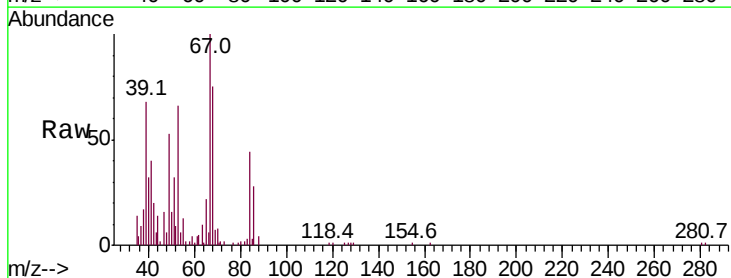
Instrument :
MSVOA_L
ClientSampleId :

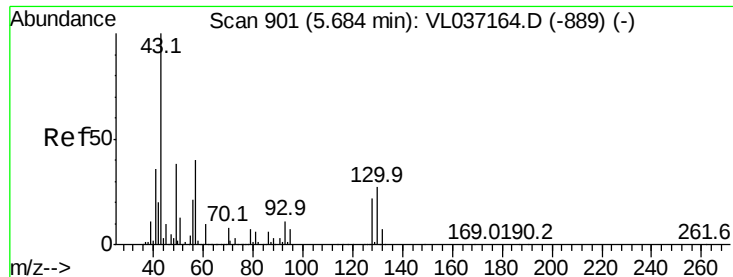
Tot Ion:	84	Resp:	287306
Ion	Ratio	Lower	Upper
84	100		
49	141.7	119.7	179.5
51	41.9	36.1	54.1
86	59.6	53.7	80.5



#21
Allyl Chloride
Concen: 0.084 ppbv
RT: 4.39 min Scan# 500
Delta R.T. -0.02 min
Lab File: VL037258.D
Acq: 29 Jun 2021 20:49

Tgt Ion:	41	Resp:	11502
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.6	37.0#
39	405.5	65.4	98.0#

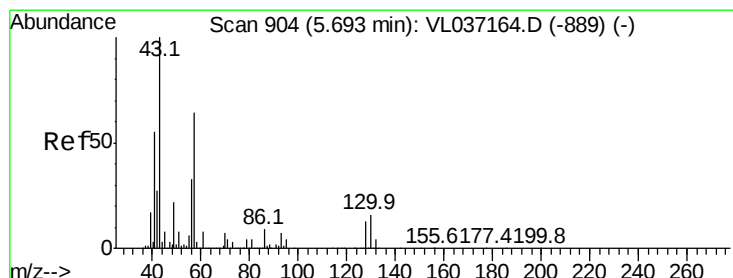
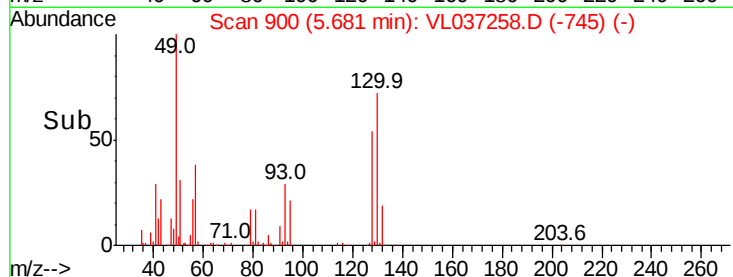
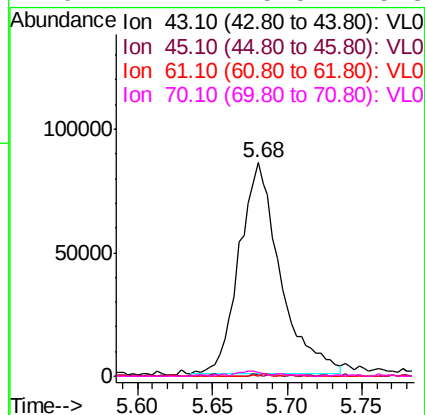
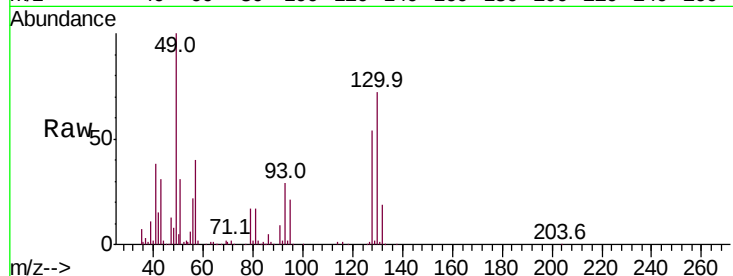




#25
Ethyl Acetate
Concen: 0.416 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL037258.D
Acq: 29 Jun 2021 20:49

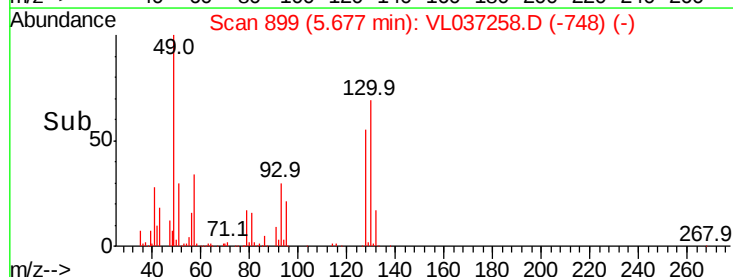
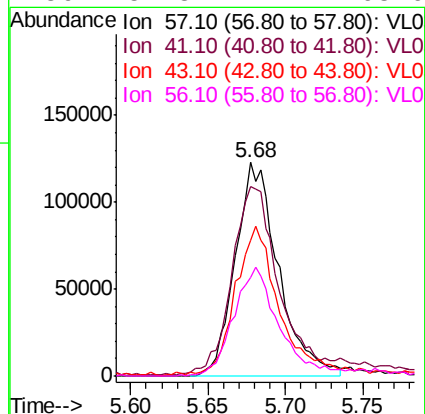
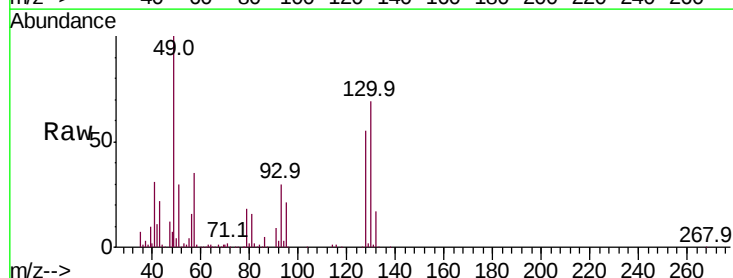
Instrument :
MSVOA_L
ClientSampleId :

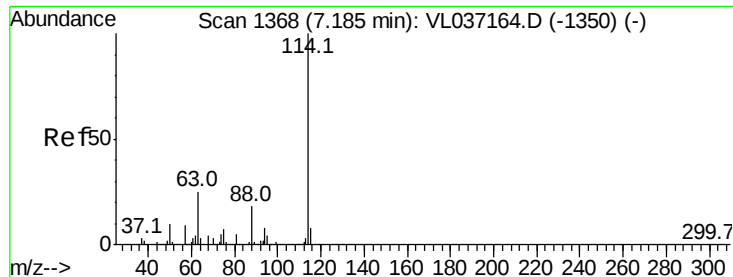
Tot Ion:	43	Resp:	163940
Ion	Ratio	Lower	Upper
43	100		
45	0.4	8.0	12.0#
61	0.6	8.1	12.1#
70	2.4	5.5	8.3#



#26
Hexane
Concen: 1.194 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.02 min
Lab File: VL037258.D
Acq: 29 Jun 2021 20:49

Tgt Ion:	57	Resp:	237941
Ion	Ratio	Lower	Upper
57	100		
41	102.9	73.5	110.3
43	73.2	170.7	256.1#
56	57.8	42.4	63.6

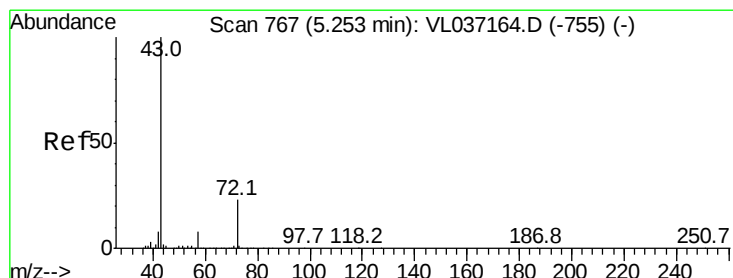
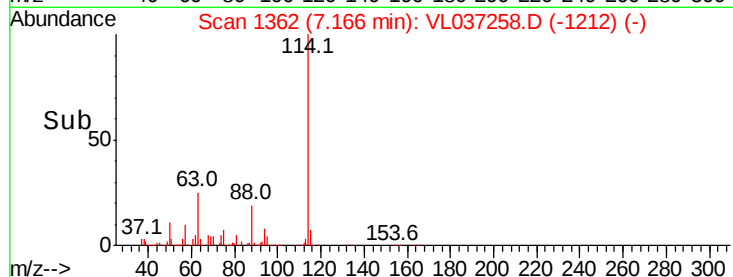
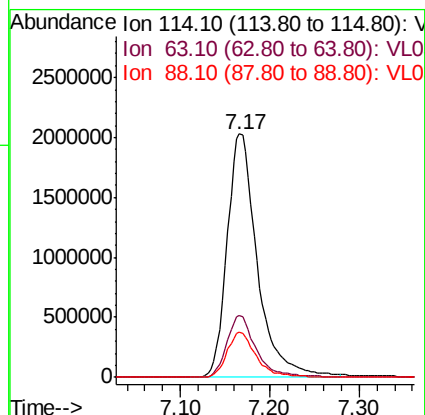
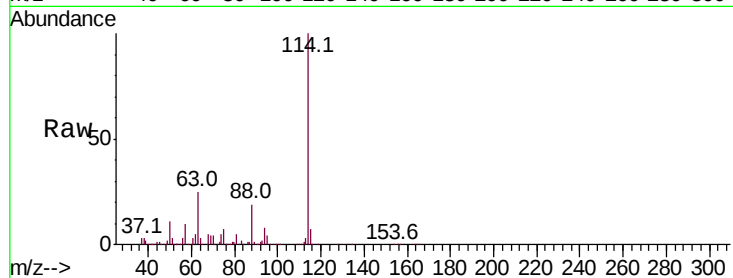




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.02 min
 Lab File: VL037258.D
 Acq: 29 Jun 2021 20:49

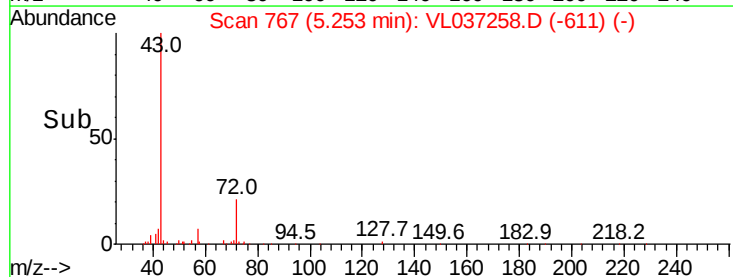
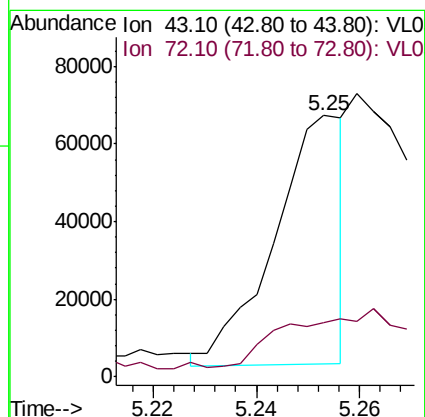
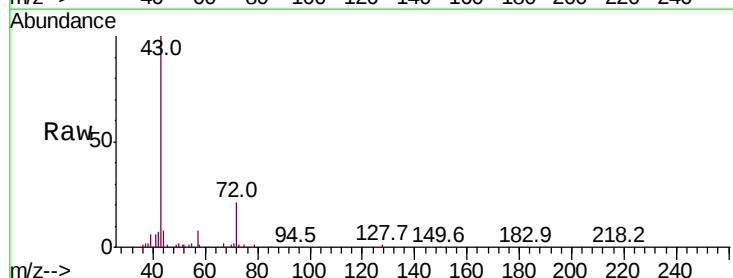
Instrument :
 MSVOA_L
 ClientSampleId :

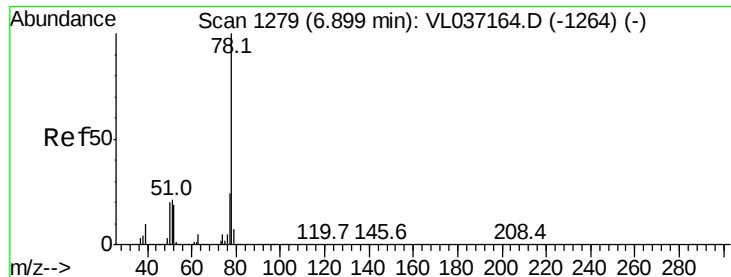
Tot Ion:114 Resp: 4770832
 Ion Ratio Lower Upper
 114 100
 63 24.8 19.6 29.4
 88 18.1 14.2 21.2



#34
 2-Butanone
 Concen: 0.324 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.00 min
 Lab File: VL037258.D
 Acq: 29 Jun 2021 20:49

Tgt Ion: 43 Resp: 60085
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.9 28.3#





#36

Benzene

Concen: 0.255 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. -0.02 min

Lab File: VL037258.D

Acq: 29 Jun 2021 20:49

Instrument :

MSVOA_L

ClientSampleId :

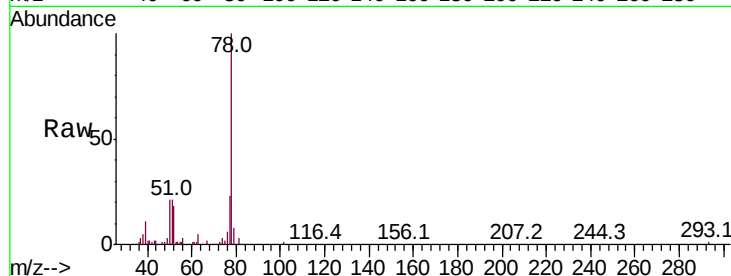
Tot Ion: 78 Resp: 98395

Ion Ratio Lower Upper

78 100

77 23.5 19.0 28.6

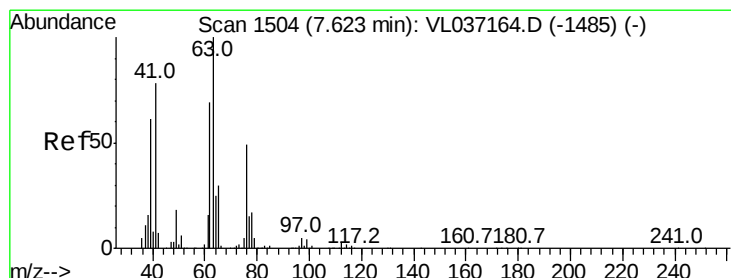
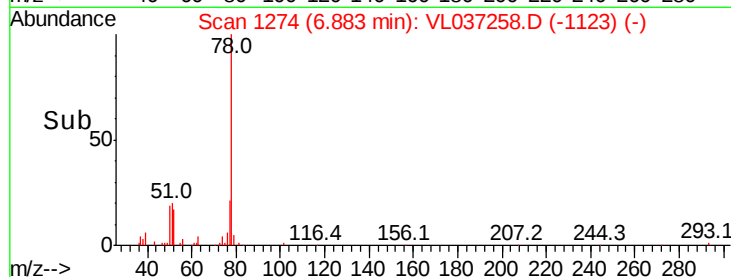
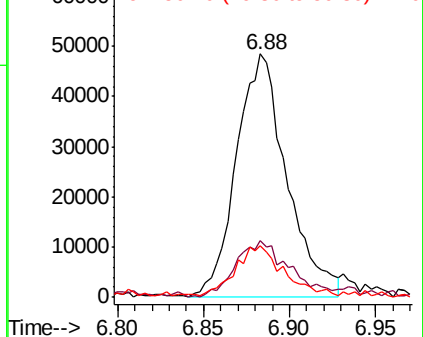
50 20.1 15.7 23.5



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 8.032 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.46 min

Lab File: VL037258.D

Acq: 29 Jun 2021 20:49

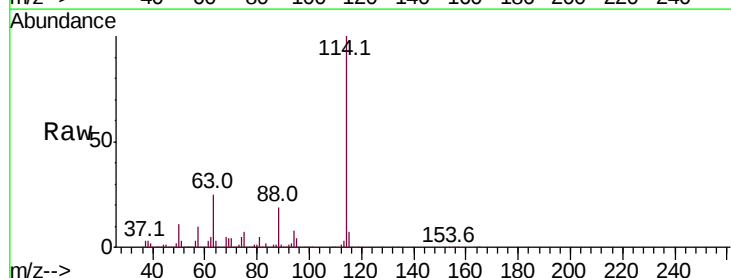
Tgt Ion: 63 Resp: 1151381

Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

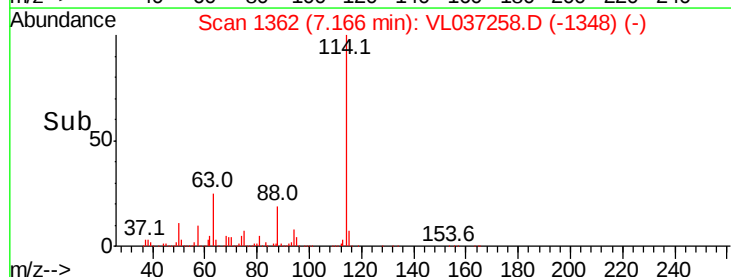
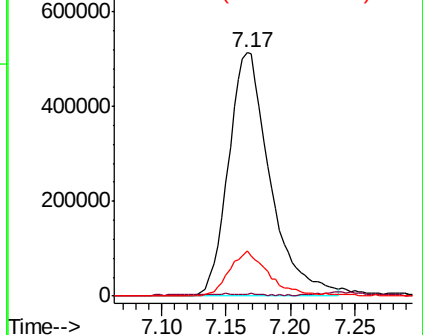
62 18.6 54.9 82.3#

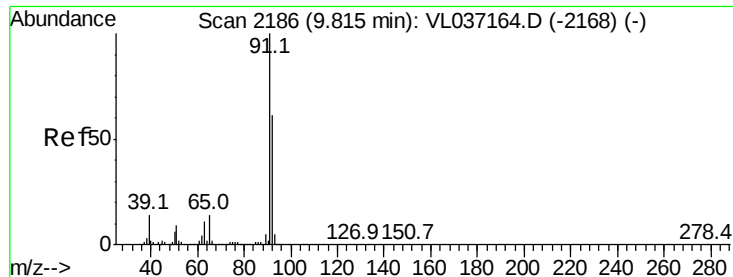


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.176 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.02 min

Lab File: VL037258.D

Acq: 29 Jun 2021 20:49

Instrument :

MSVOA_L

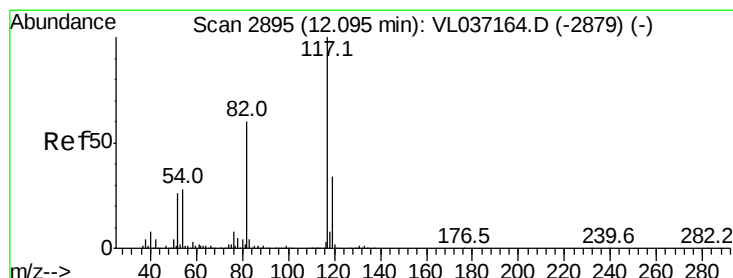
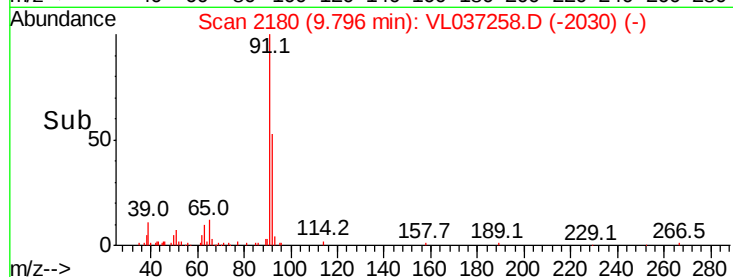
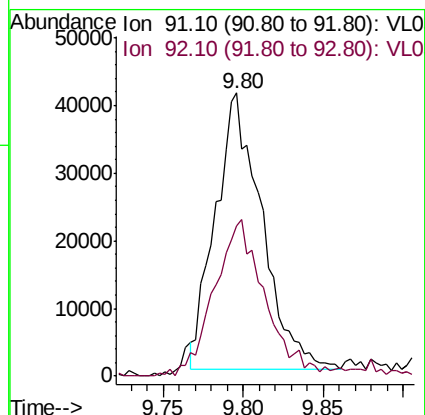
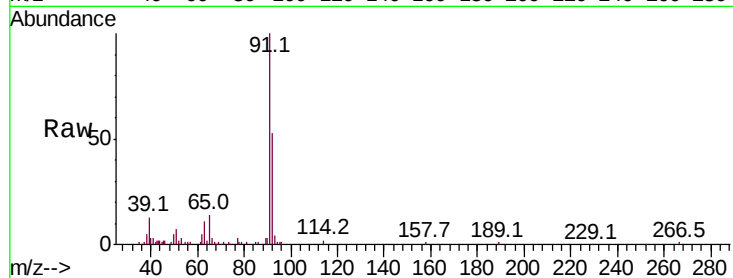
ClientSampleId :

Tot Ion: 91 Resp: 81062

Ion Ratio Lower Upper

91 100

92 63.6 48.3 72.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.02 min

Lab File: VL037258.D

Acq: 29 Jun 2021 20:49

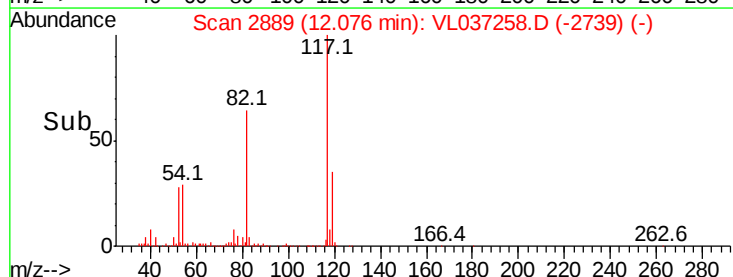
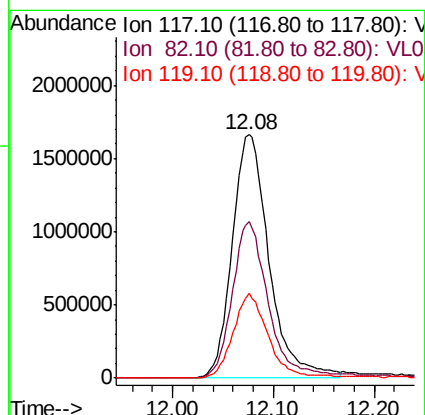
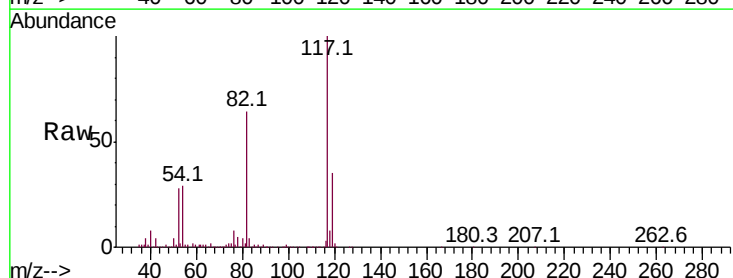
Tgt Ion: 117 Resp: 4232364

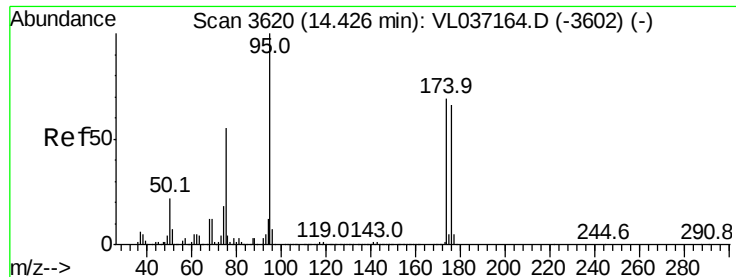
Ion Ratio Lower Upper

117 100

82 64.9 51.7 77.5

119 34.3 47.6 71.4#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.808 ppbv

RT: 14.41 min Scan# 3614

Delta R.T. -0.02 min

Lab File: VL037258.D

Acq: 29 Jun 2021 20:49

Instrument :

MSVOA_L

ClientSampleId :

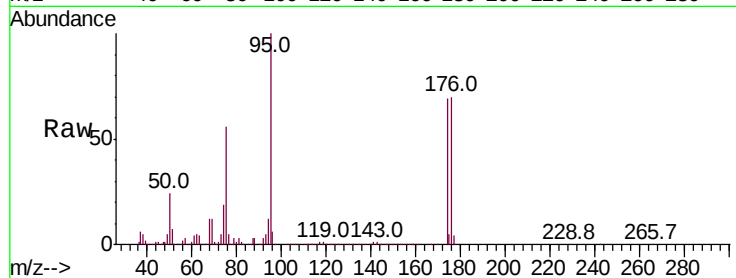
Tot Ion: 95 Resp: 3145394

Ion Ratio Lower Upper

95 100

174 75.8 57.0 85.4

175 5.5 4.4 6.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

