

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061721\
 Data File : VL037210.D
 Acq On : 17 Jun 2021 20:39
 Operator : SY/AP
 Sample : M2742-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Jun 18 01:24:19 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	5.67	49	1422037	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4322768	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3690190	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	1429699	5.11	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	51.10%#	

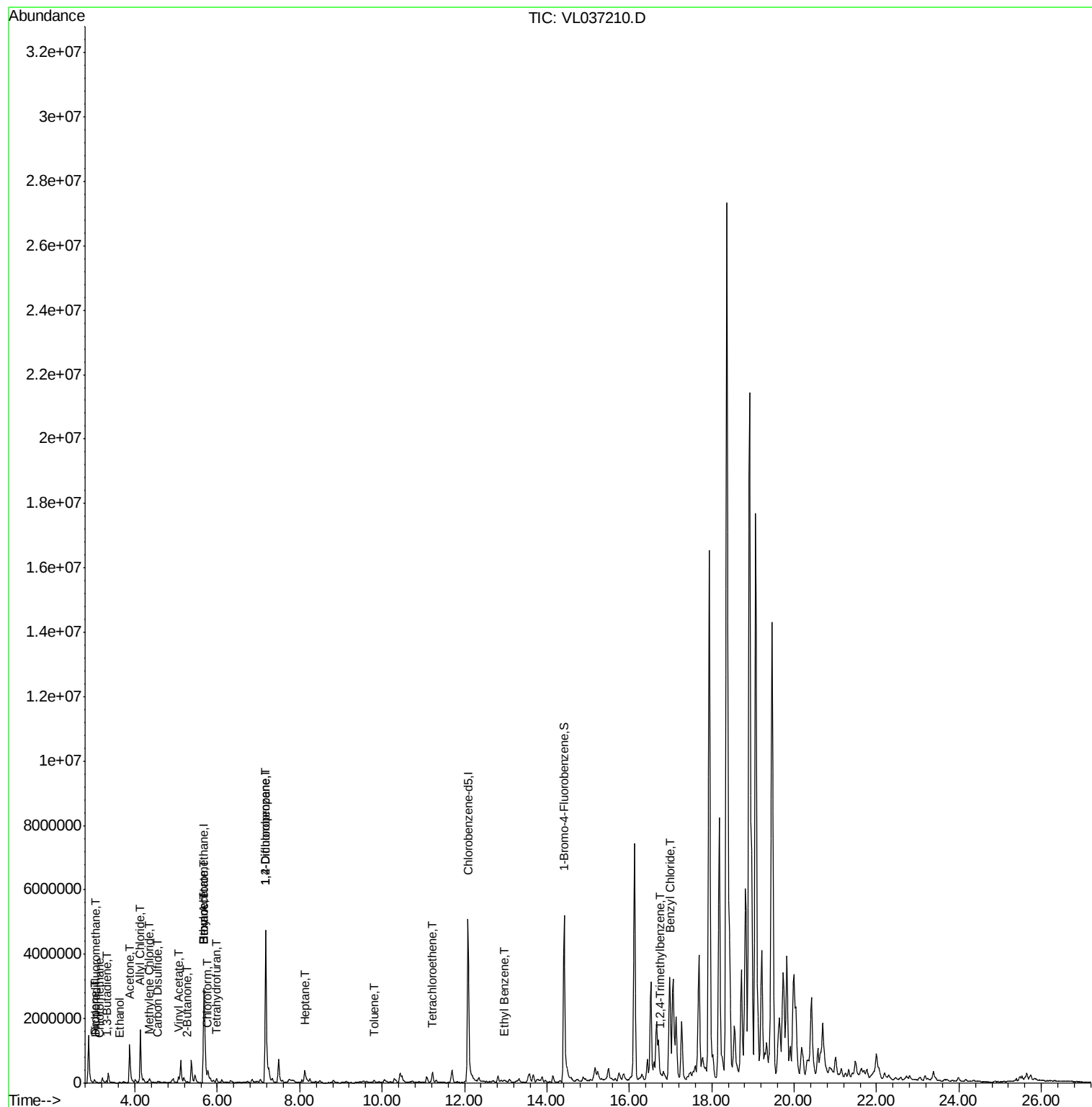
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	15142	0.061	ppbv #	82
4) Chloromethane	3.14	50	3297	0.036	ppbv #	78
9) Propene	3.01	41	7952	0.090	ppbv #	16
10) Heptane	8.12	43	187276	0.875	ppbv	95
13) Ethanol	3.62	45	4927	0.360	ppbv #	7
15) Acetone	3.87	43	793372	4.947	ppbv #	83
16) 1,3-Butadiene	3.31	39	17597	0.186	ppbv #	24
20) Methylene Chloride	4.35	84	40131	0.418	ppbv	87
21) Allyl Chloride	4.13	41	584657	4.837	ppbv #	49
23) Vinyl Acetate	5.06	43	55798	0.243	ppbv #	1
25) Ethyl Acetate	5.69	43	439346	1.266	ppbv #	76
26) Hexane	5.69	57	643317	3.666	ppbv #	47
27) Carbon Disulfide	4.56	76	57316	0.333	ppbv #	72
29) Chloroform	5.75	83	7285	0.027	ppbv	88
34) 2-Butanone	5.27	43	15873	0.094	ppbv #	1
39) 1,2-Dichloropropane	7.17	63	1021964	7.868	ppbv #	23
41) Tetrahydrofuran	5.99	42	7426	0.095	ppbv #	39
52) Tetrachloroethene	11.22	164	84540	0.520	ppbv	97
53) Toluene	9.80	91	24257	0.058	ppbv #	20
58) Ethyl Benzene	12.96	91	30930	0.061	ppbv	98
66) Benzyl Chloride	16.98	91	965	0.044	ppbv #	63
74) 1,2,4-Trimethylbenzene	16.76	105	37187	0.080	ppbv #	67

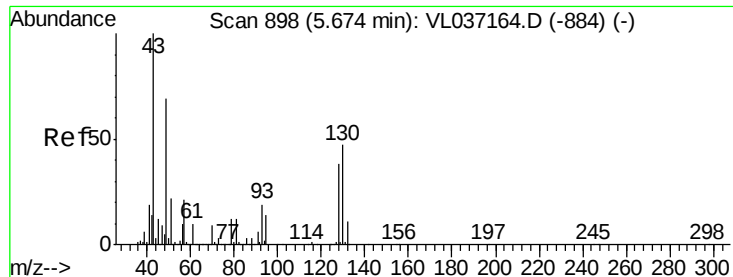
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL037210.D

Acq: 17 Jun 2021 20:39

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

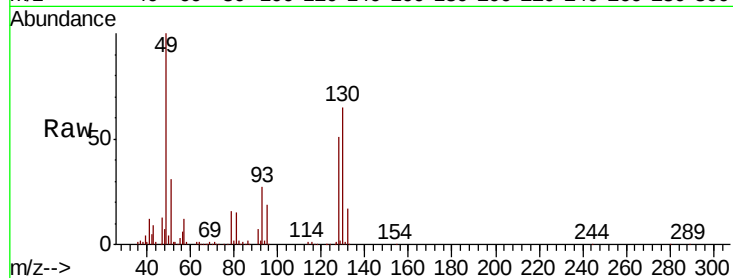
Tot Ion: 49 Resp: 1422037

Ion Ratio Lower Upper

49 100

128 56.6 29.3 88.0

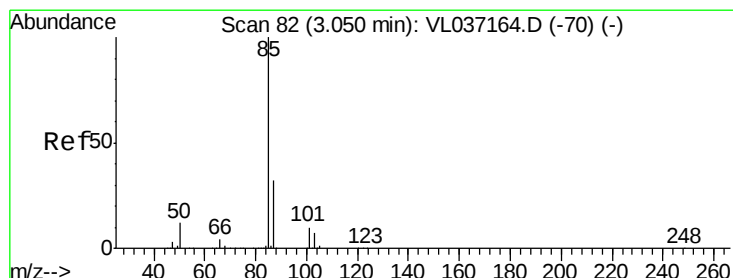
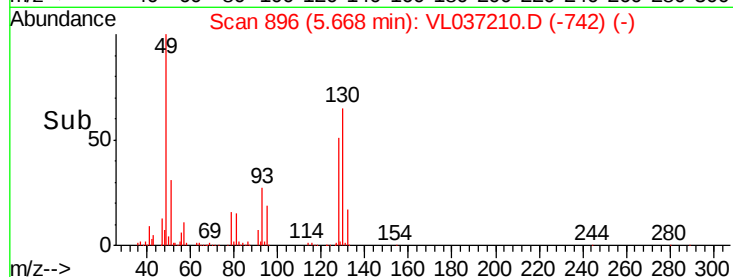
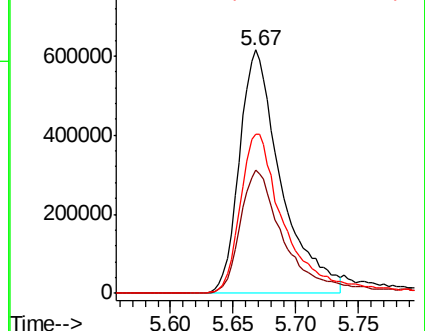
130 73.7 35.9 107.8



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



#2

Dichlorodifluoromethane

Concen: 0.061 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037210.D

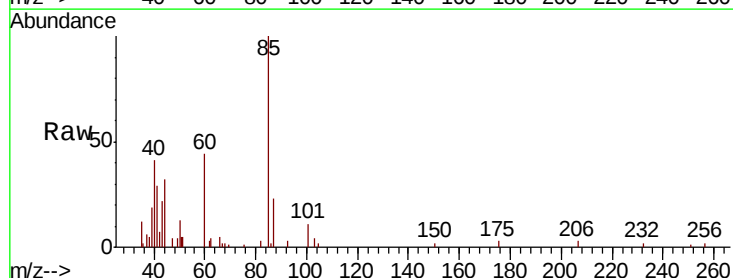
Acq: 17 Jun 2021 20:39

Tgt Ion: 85 Resp: 15142

Ion Ratio Lower Upper

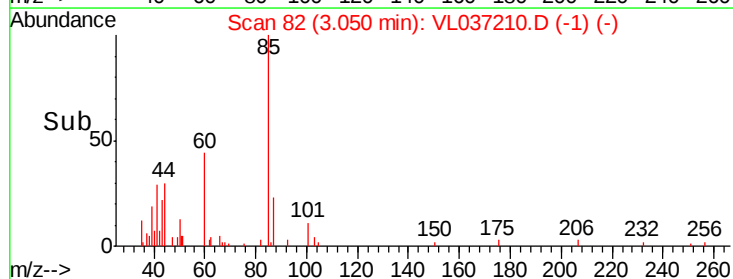
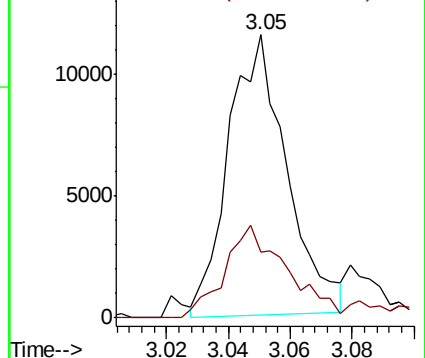
85 100

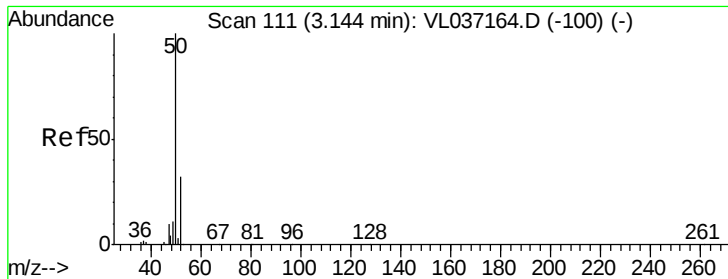
87 22.3 25.8 38.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.036 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037210.D

Acq: 17 Jun 2021 20:39

Instrument :

MSVOA_L

ClientSampleID :

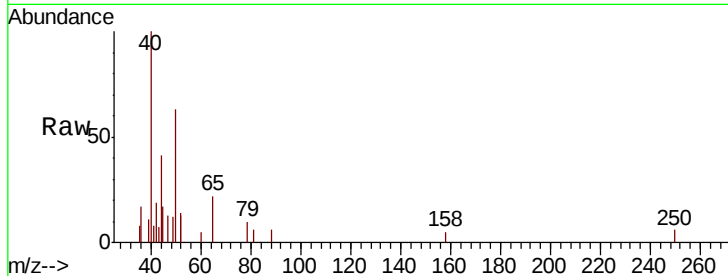
SV1DL

Tot Ion: 50 Resp: 3297

Ion Ratio Lower Upper

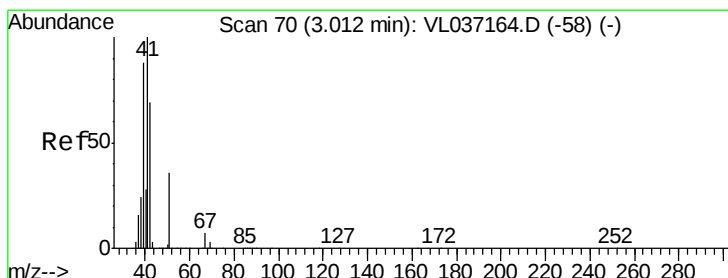
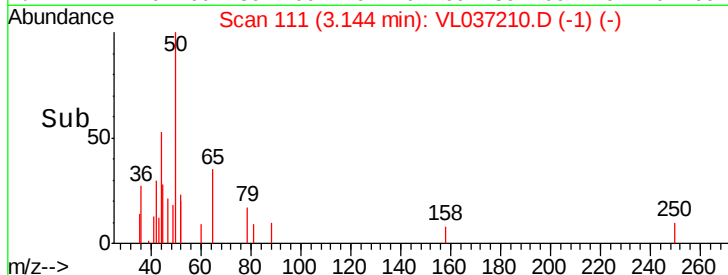
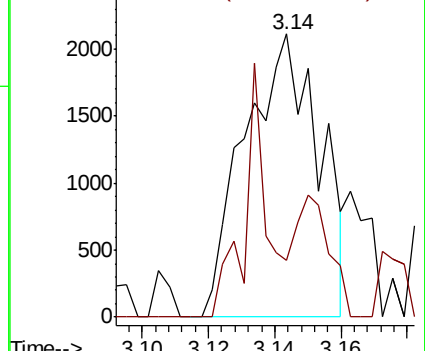
50 100

52 20.1 25.8 38.8#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.090 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037210.D

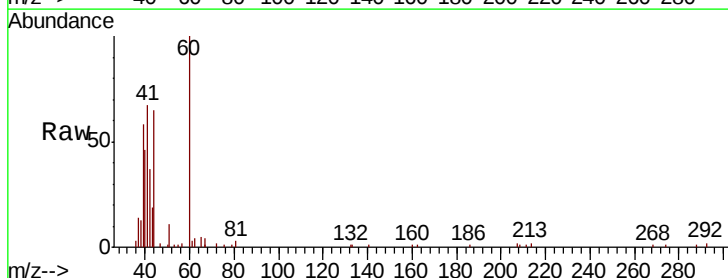
Acq: 17 Jun 2021 20:39

Tgt Ion: 41 Resp: 7952

Ion Ratio Lower Upper

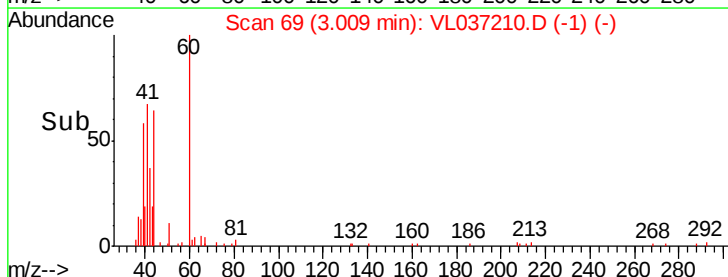
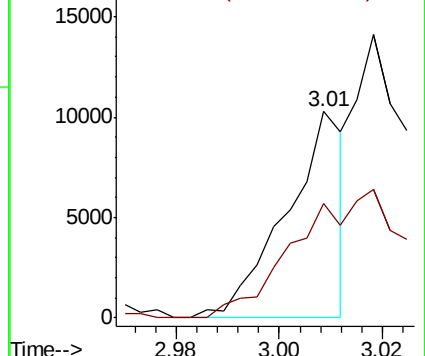
41 100

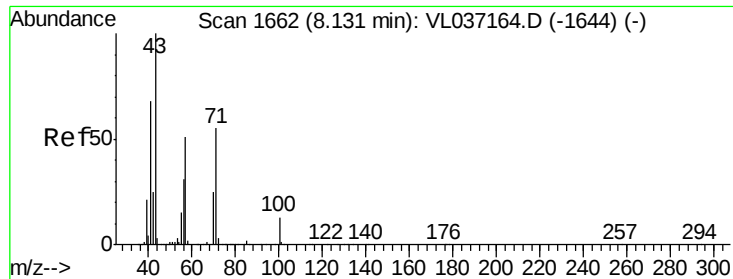
42 0.0 54.5 81.7#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.875 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL037210.D

Acq: 17 Jun 2021 20:39

Instrument :

MSVOA_L

ClientSampleId :

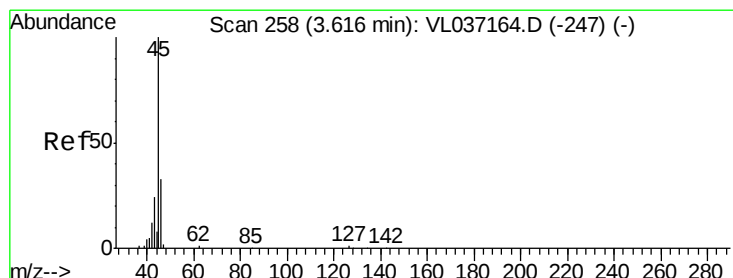
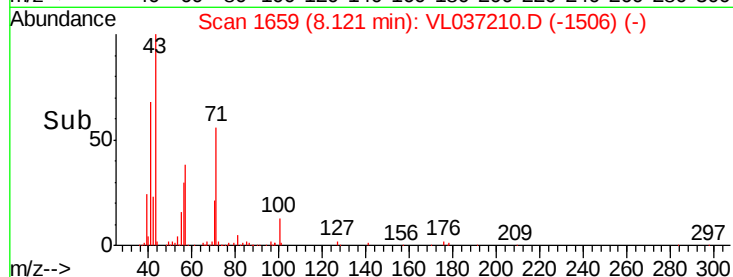
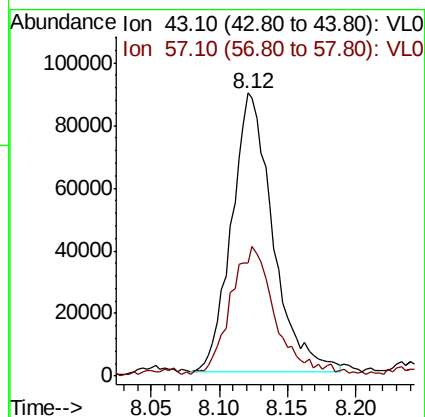
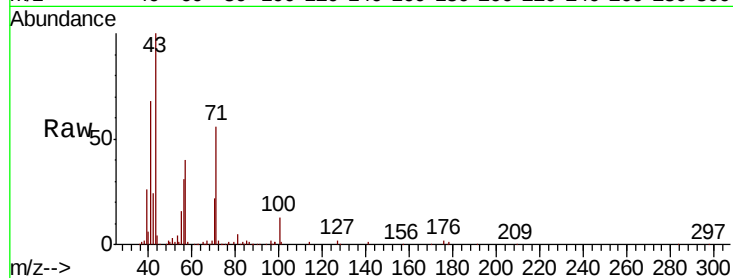
SV1DL

Tot Ion: 43 Resp: 187276

Ion Ratio Lower Upper

43 100

57 54.4 40.6 61.0



#13

Ethanol

Concen: 0.360 ppbv

RT: 3.62 min Scan# 260

Delta R.T. 0.01 min

Lab File: VL037210.D

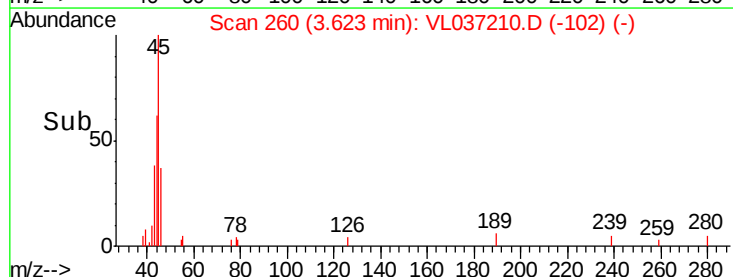
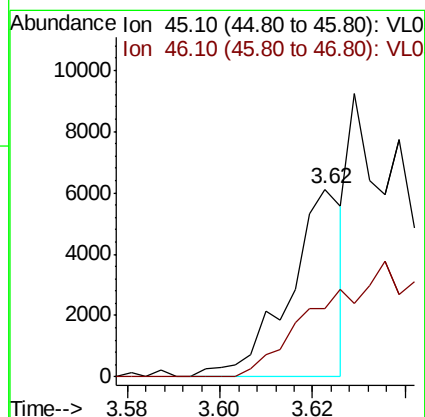
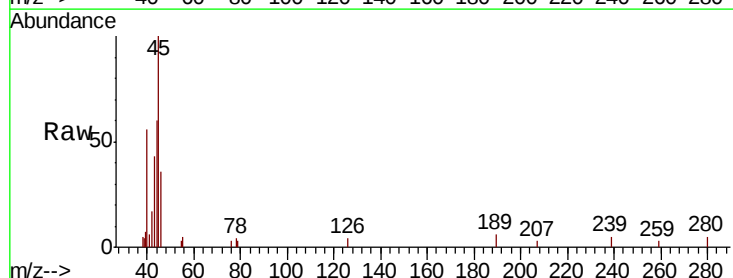
Acq: 17 Jun 2021 20:39

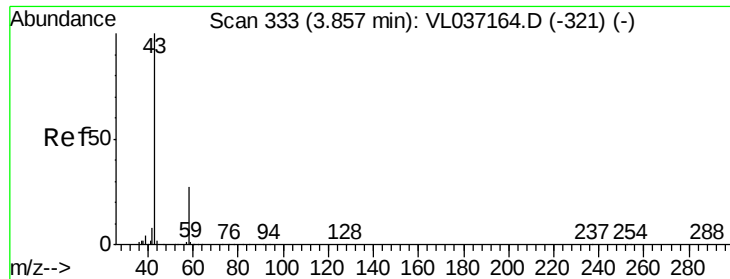
Tgt Ion: 45 Resp: 4927

Ion Ratio Lower Upper

45 100

46 0.0 34.2 137.0#

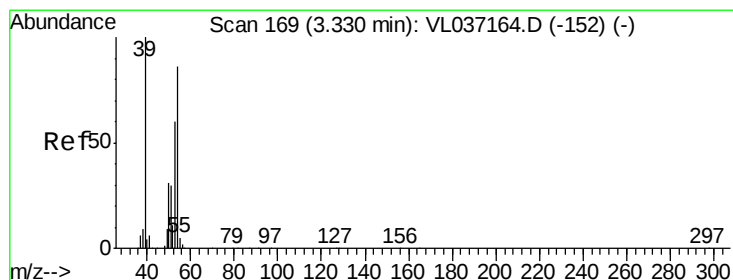
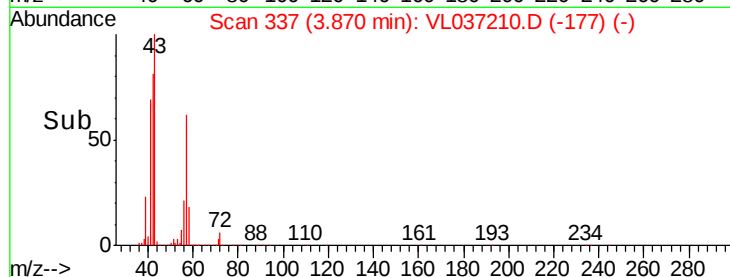
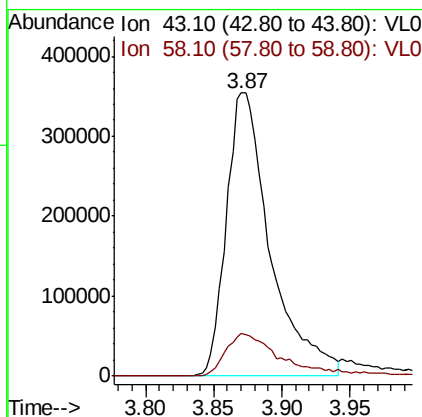
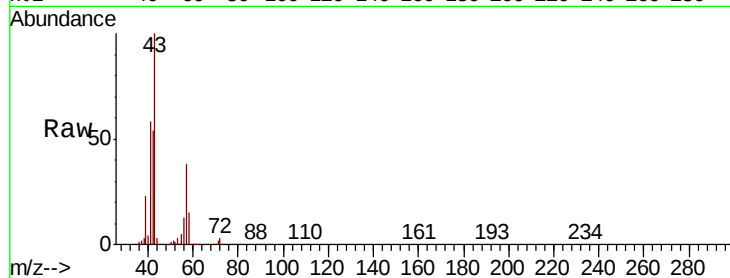




#15
Acetone
Concen: 4.947 ppbv
RT: 3.87 min Scan# 337
Delta R.T. 0.01 min
Lab File: VL037210.D
Acq: 17 Jun 2021 20:39

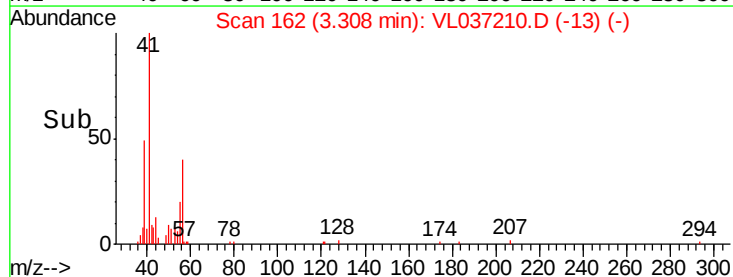
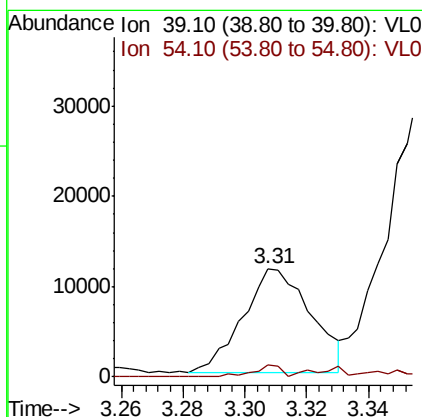
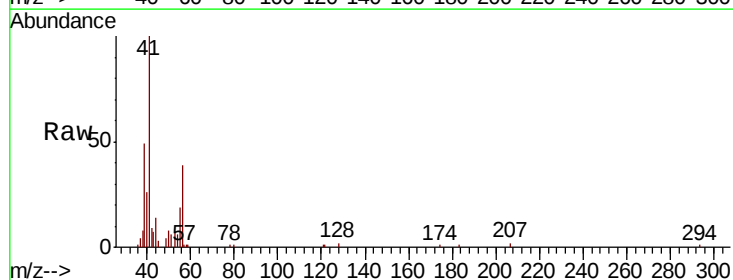
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

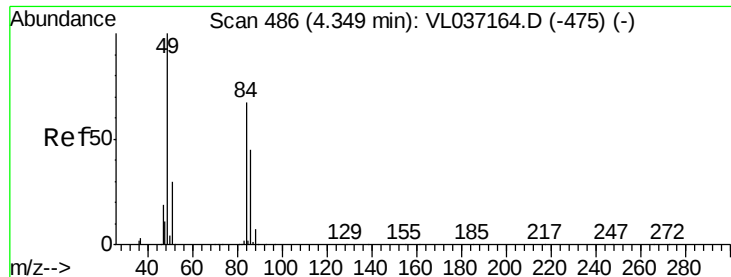
Tot Ion: 43 Resp: 793372
Ion Ratio Lower Upper
43 100
58 20.3 23.7 35.5#



#16
1,3-Butadiene
Concen: 0.186 ppbv
RT: 3.31 min Scan# 162
Delta R.T. -0.02 min
Lab File: VL037210.D
Acq: 17 Jun 2021 20:39

Tgt Ion: 39 Resp: 17597
Ion Ratio Lower Upper
39 100
54 10.7 61.2 91.8#





#20

Methylene Chloride

Concen: 0.418 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.00 min

Lab File: VL037210.D

Acq: 17 Jun 2021 20:39

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tot Ion: 84 Resp: 40131

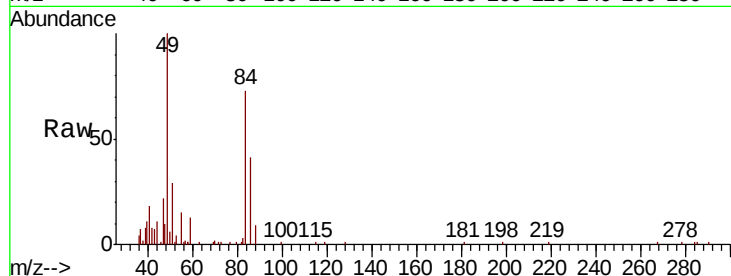
Ion Ratio Lower Upper

84 100

49 132.9 119.7 179.5

51 37.9 36.1 54.1

86 56.1 53.7 80.5

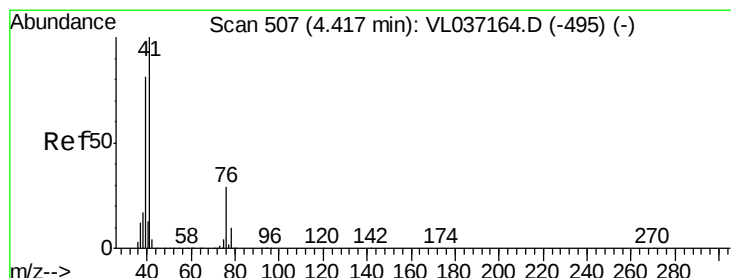
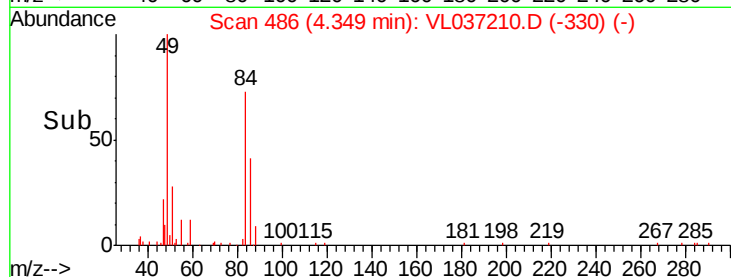
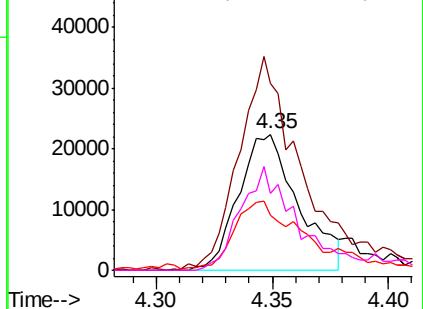


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#21

Allyl Chloride

Concen: 4.837 ppbv

RT: 4.13 min Scan# 419

Delta R.T. -0.28 min

Lab File: VL037210.D

Acq: 17 Jun 2021 20:39

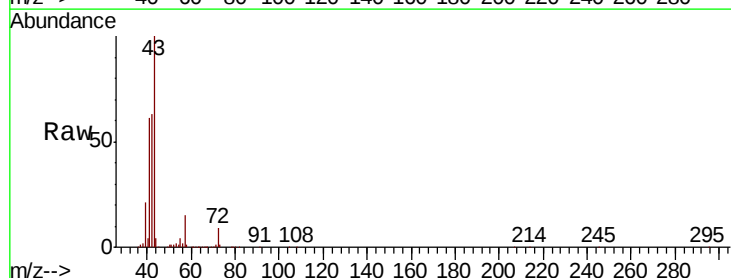
Tgt Ion: 41 Resp: 584657

Ion Ratio Lower Upper

41 100

76 0.0 24.6 37.0#

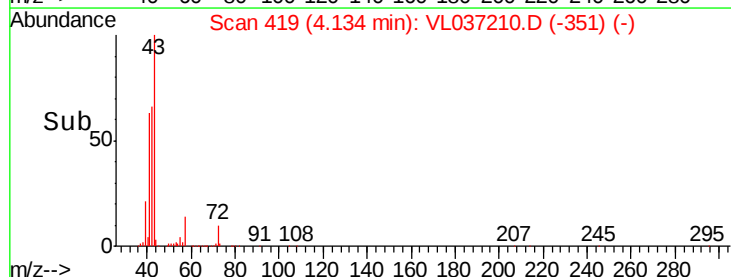
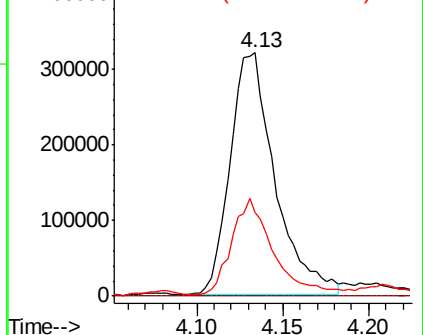
39 37.6 65.4 98.0#

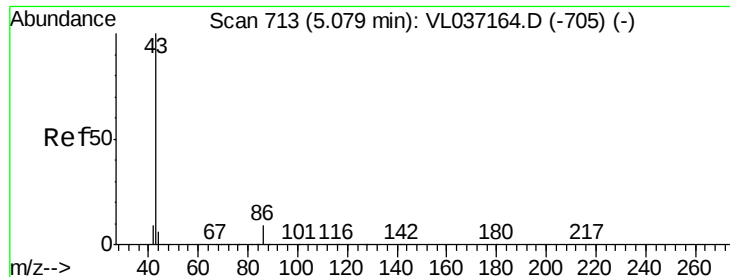


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.243 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.02 min

Lab File: VL037210.D

Acq: 17 Jun 2021 20:39

Instrument :

MSVOA_L

ClientSampled :

SV1DL

Tot Ion: 43 Resp: 55798

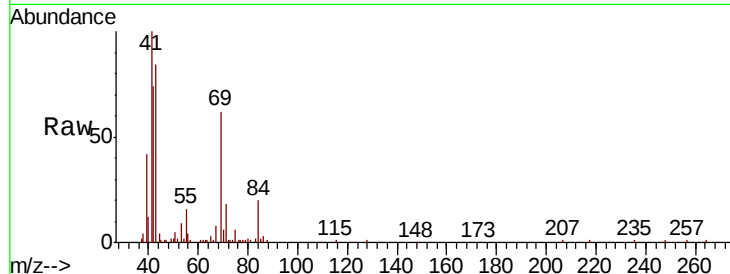
Ion Ratio Lower Upper

43 100

86 3.4 5.8 8.8#

42 88.7 8.2 12.2#

44 0.0 4.2 6.4#

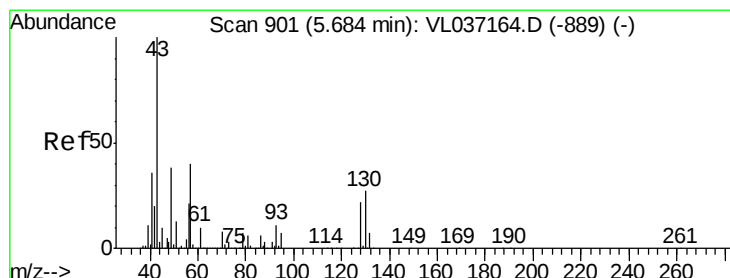
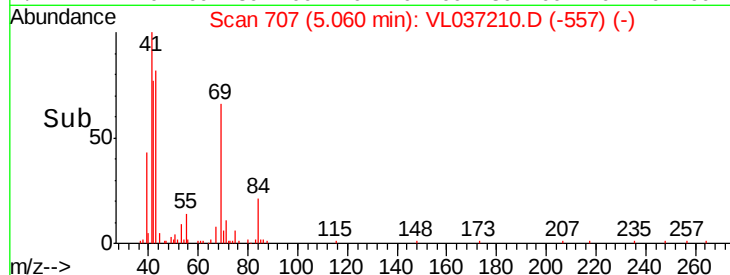
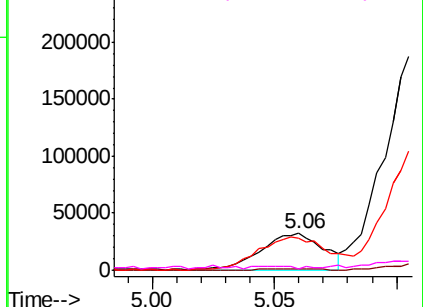


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.266 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL037210.D

Acq: 17 Jun 2021 20:39

Tgt Ion: 43 Resp: 439346

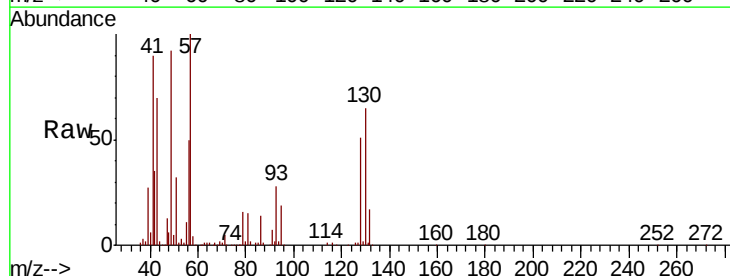
Ion Ratio Lower Upper

43 100

45 0.1 8.0 12.0#

61 0.1 8.1 12.1#

70 2.0 5.5 8.3#

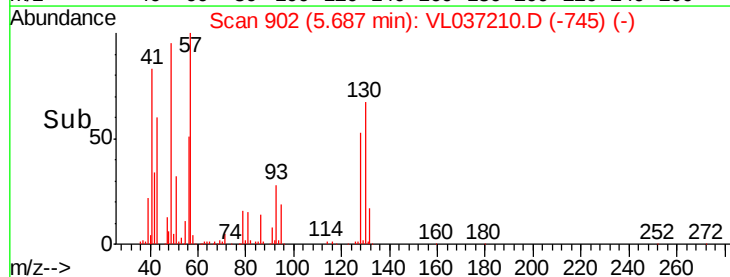
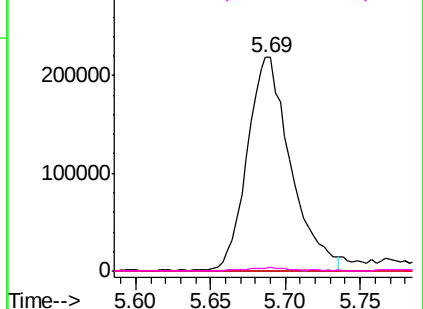


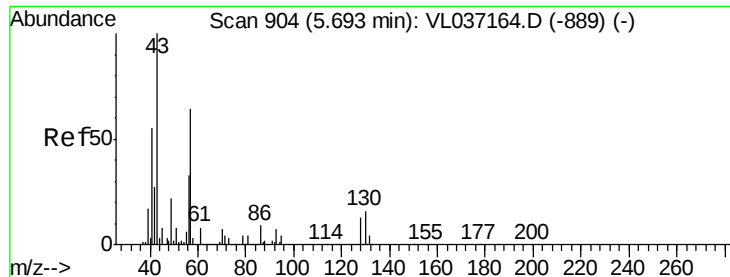
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

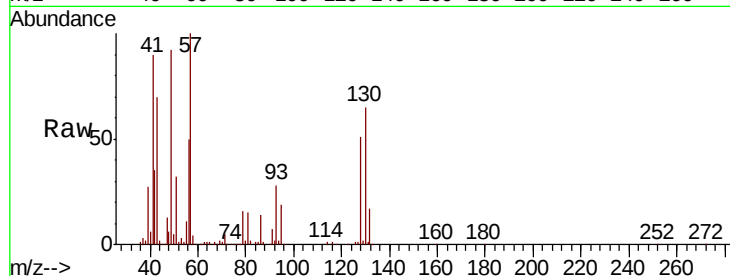




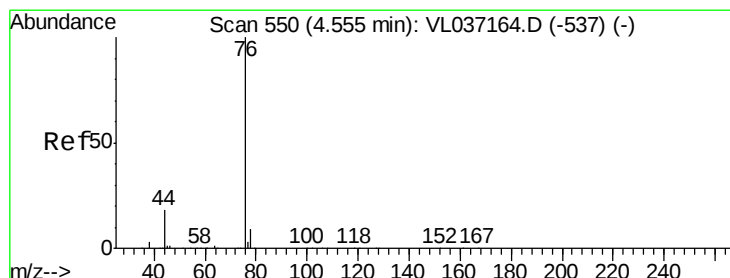
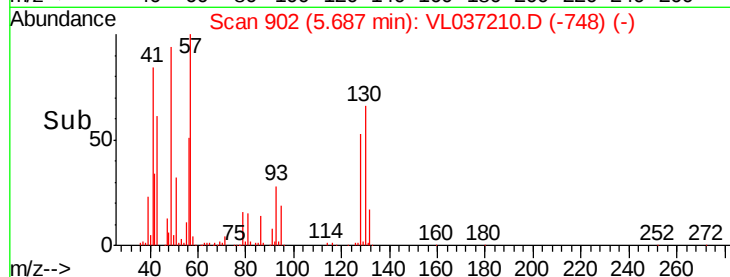
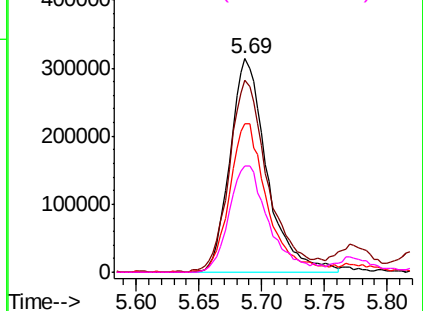
#26
Hexane
Concen: 3.666 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL037210.D
Acq: 17 Jun 2021 20:39

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tot Ion:	57	Resp:	643317
Ion	Ratio	Lower	Upper
57	100		
41	94.9	73.5	110.3
43	75.2	170.7	256.1#
56	52.7	42.4	63.6

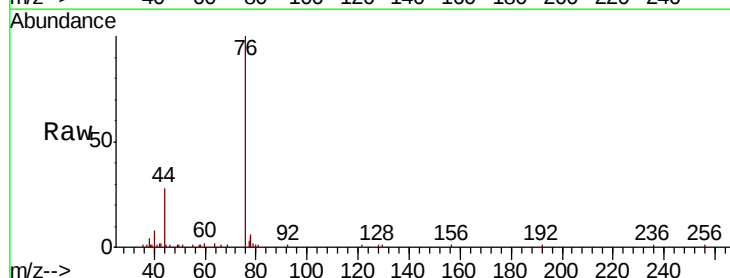


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

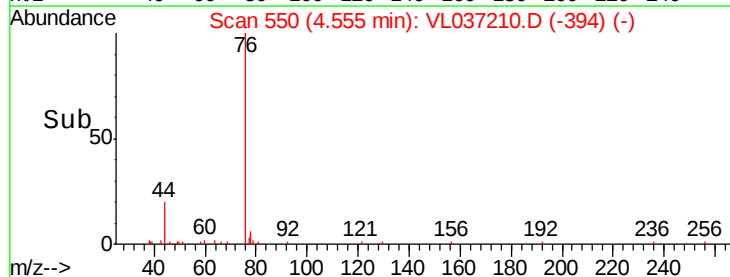
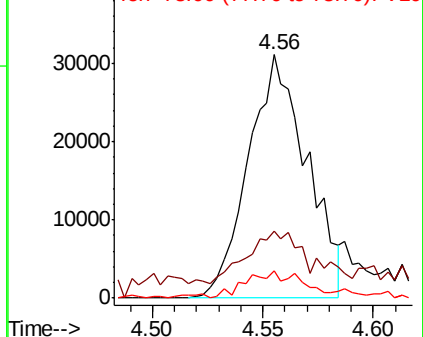


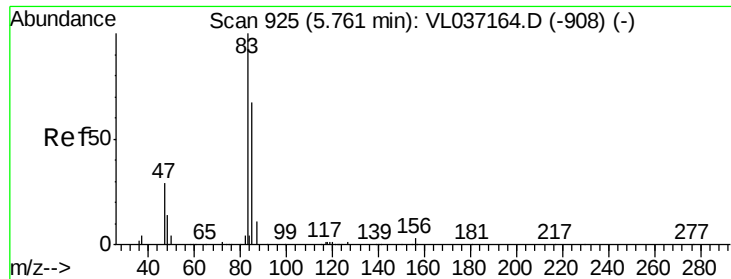
#27
Carbon Disulfide
Concen: 0.333 ppbv
RT: 4.56 min Scan# 550
Delta R.T. 0.00 min
Lab File: VL037210.D
Acq: 17 Jun 2021 20:39

Tgt Ion:	76	Resp:	57316
Ion	Ratio	Lower	Upper
76	100		
44	36.3	15.4	23.2#
78	13.4	8.0	12.0#



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: 0.027 ppbv

RT: 5.75 min Scan# 923

Delta R.T. -0.01 min

Lab File: VL037210.D

Acq: 17 Jun 2021 20:39

Instrument :

MSVOA_L

ClientSampleId :

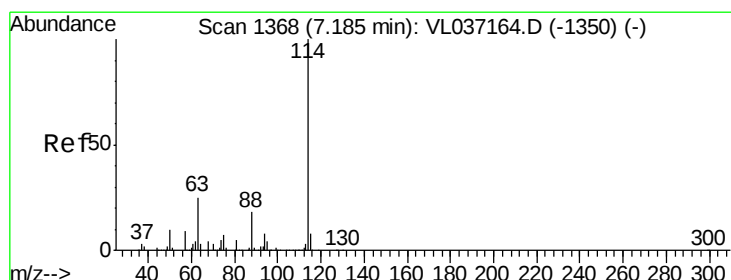
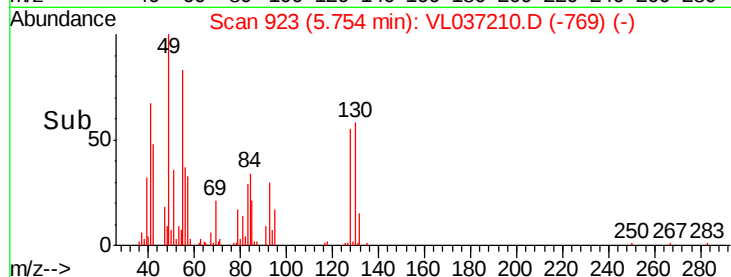
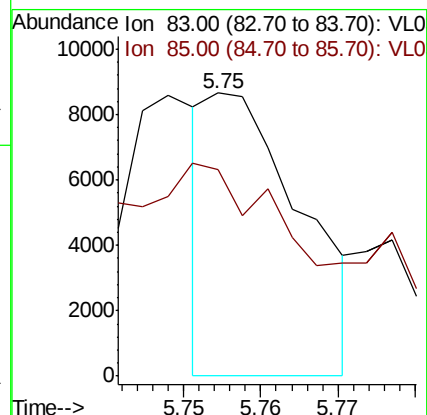
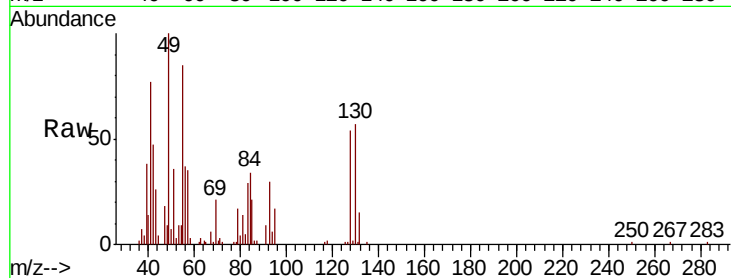
SV1DL

Tot Ion: 83 Resp: 7285

Ion Ratio Lower Upper

83 100

85 57.4 53.6 80.4



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VL037210.D

Acq: 17 Jun 2021 20:39

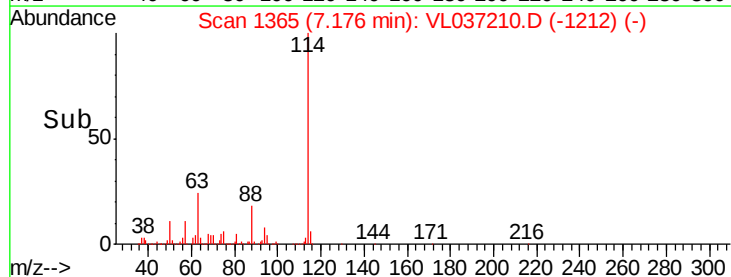
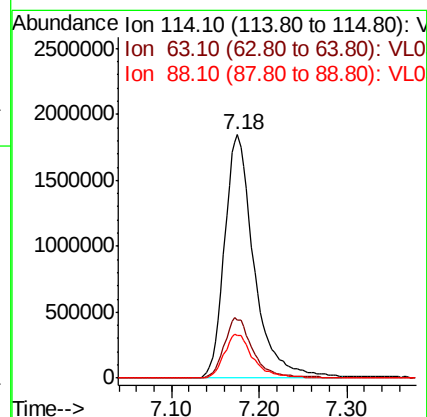
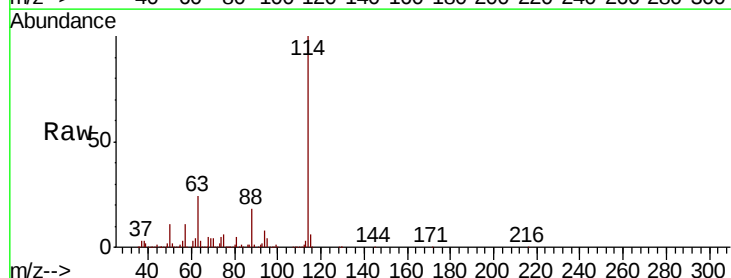
Tgt Ion: 114 Resp: 4322768

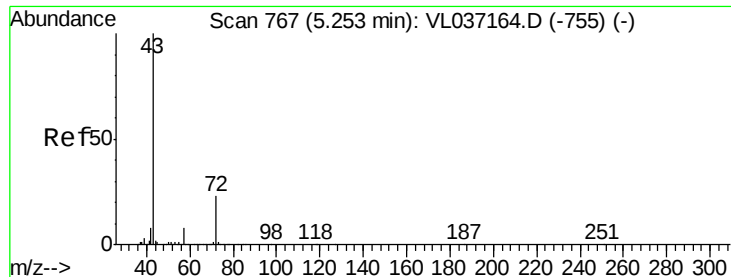
Ion Ratio Lower Upper

114 100

63 24.5 19.6 29.4

88 18.1 14.2 21.2

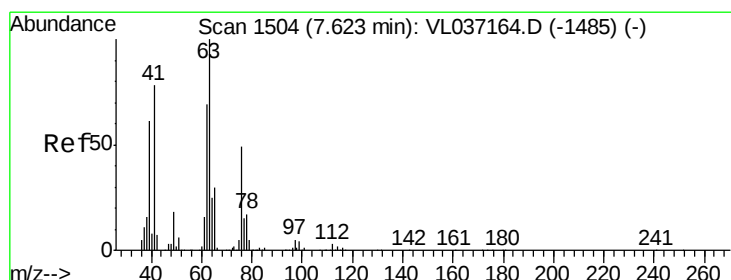
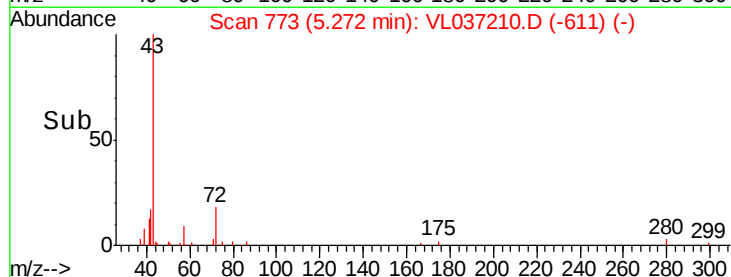
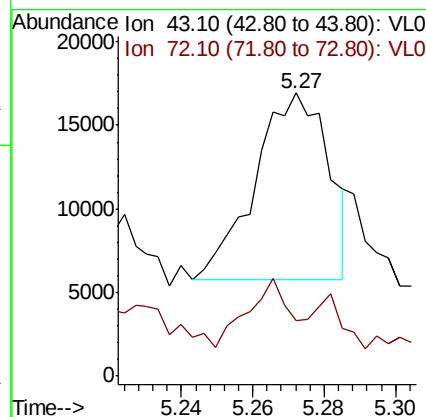
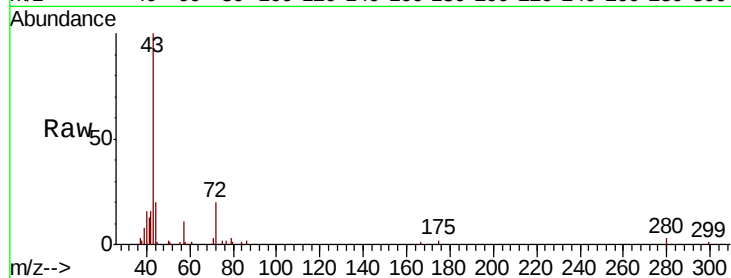




#34
2-Butanone
Concen: 0.094 ppbv
RT: 5.27 min Scan# 773
Delta R.T. 0.02 min
Lab File: VL037210.D
Acq: 17 Jun 2021 20:39

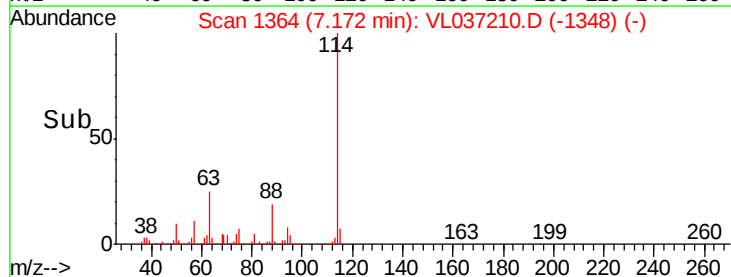
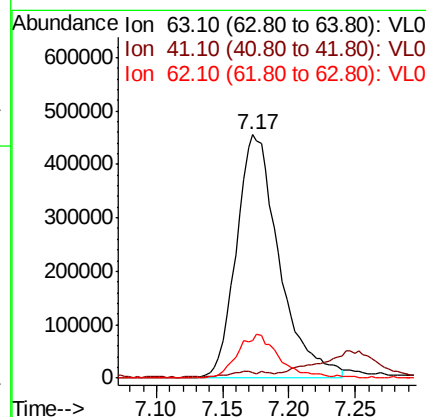
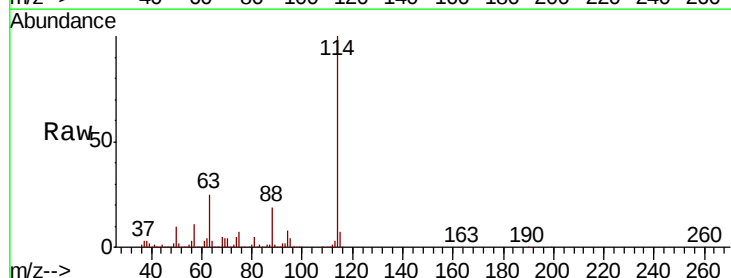
Instrument :
MSVOA_L
ClientSampleID :
SV1DL

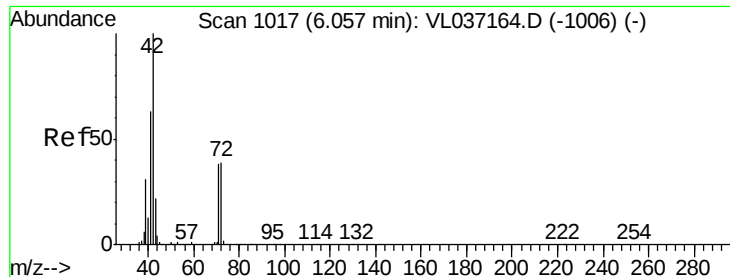
Tot Ion: 43 Resp: 15873
Ion Ratio Lower Upper
43 100
72 84.2 18.9 28.3#



#39
1,2-Dichloropropane
Concen: 7.868 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.45 min
Lab File: VL037210.D
Acq: 17 Jun 2021 20:39

Tgt Ion: 63 Resp: 1021964
Ion Ratio Lower Upper
63 100
41 1.7 62.0 93.0#
62 15.3 54.9 82.3#





#41

Tetrahydrofuran

Concen: 0.095 ppbv

RT: 5.99 min Scan# 996

Delta R.T. -0.07 min

Lab File: VL037210.D

Acq: 17 Jun 2021 20:39

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

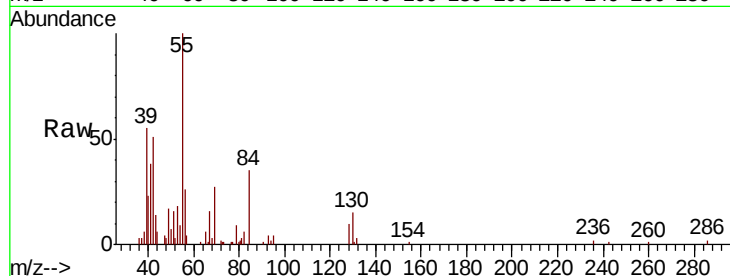
Tot Ion: 42 Resp: 7426

Ion Ratio Lower Upper

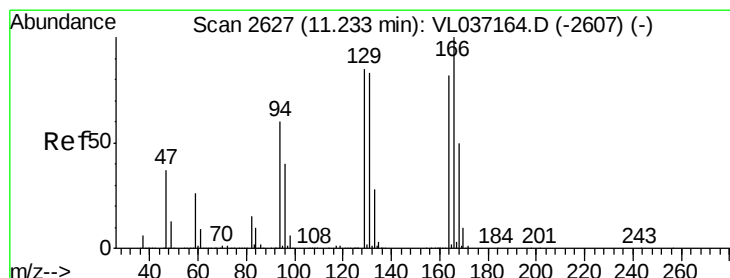
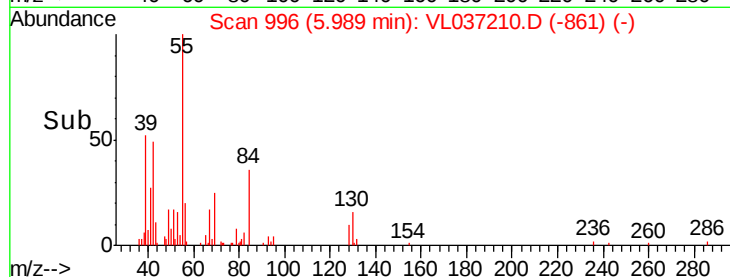
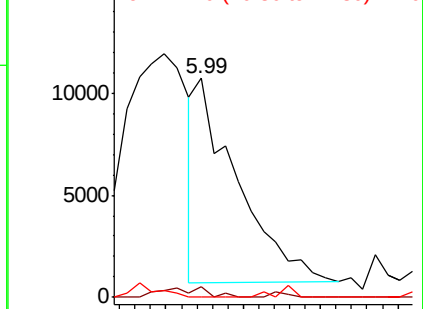
42 100

72 5.1 33.0 49.4#

71 0.0 31.0 46.6#



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



#52

Tetrachloroethene

Concen: 0.520 ppbv

RT: 11.22 min Scan# 2623

Delta R.T. -0.01 min

Lab File: VL037210.D

Acq: 17 Jun 2021 20:39

Tgt Ion: 164 Resp: 84540

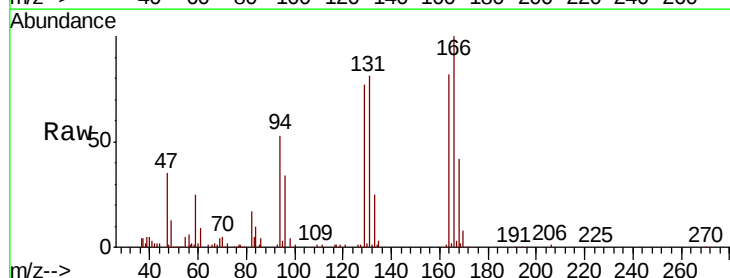
Ion Ratio Lower Upper

164 100

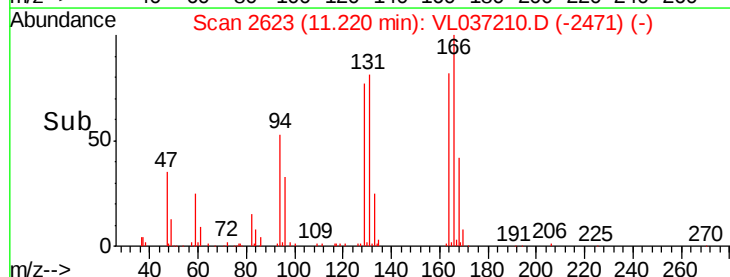
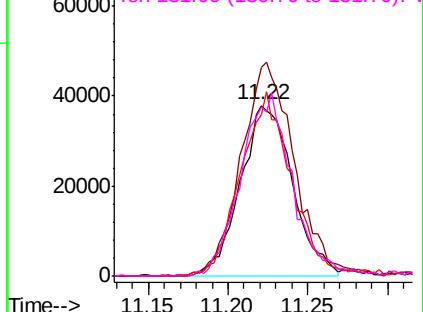
166 121.9 97.6 146.4

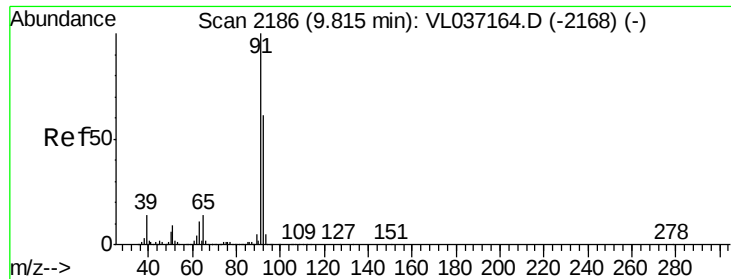
129 94.5 82.9 124.3

131 99.4 80.6 120.8



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.058 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL037210.D

Acq: 17 Jun 2021 20:39

Instrument :

MSVOA_L

ClientSampleId :

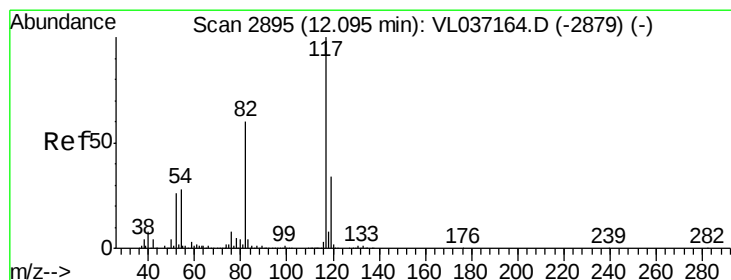
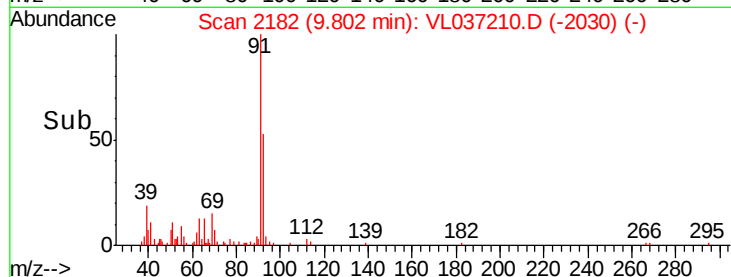
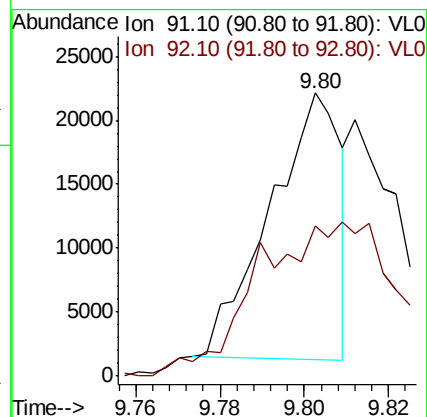
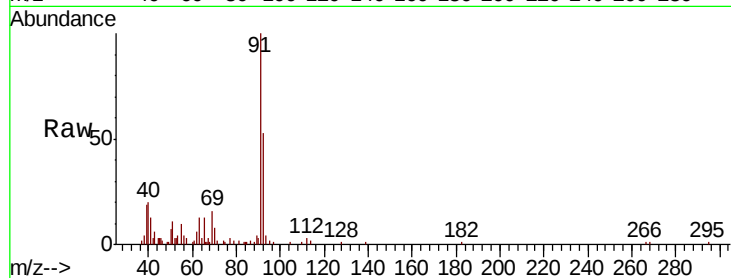
SV1DL

Tot Ion: 91 Resp: 24257

Ion Ratio Lower Upper

91 100

92 0.0 48.3 72.5#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL037210.D

Acq: 17 Jun 2021 20:39

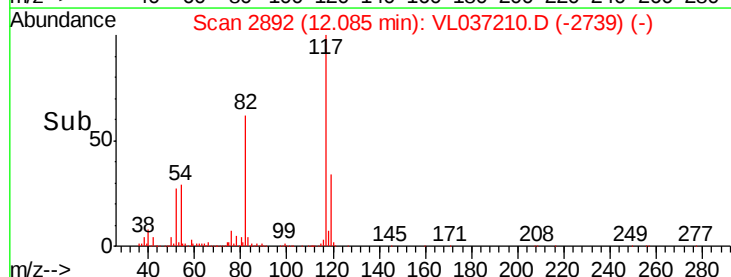
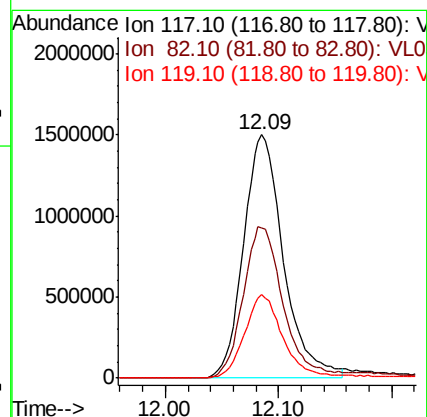
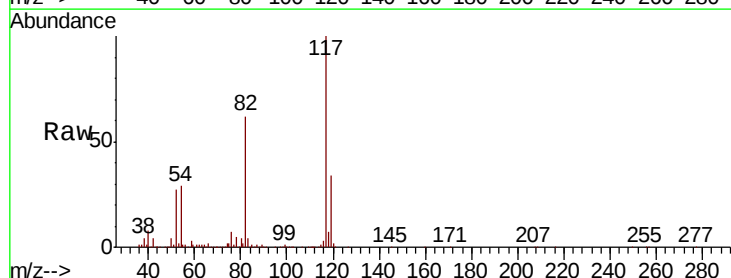
Tgt Ion: 117 Resp: 3690190

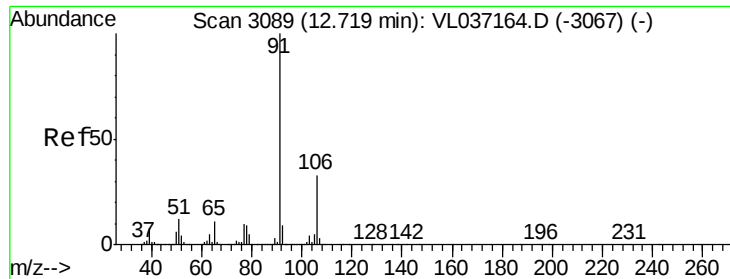
Ion Ratio Lower Upper

117 100

82 66.0 51.7 77.5

119 34.6 47.6 71.4#





#58

Ethyl Benzene

Concen: 0.061 ppbv

RT: 12.96 min Scan# 3165

Delta R.T. 0.24 min

Lab File: VL037210.D

Acq: 17 Jun 2021 20:39

Instrument :

MSVOA_L

ClientSampleID :

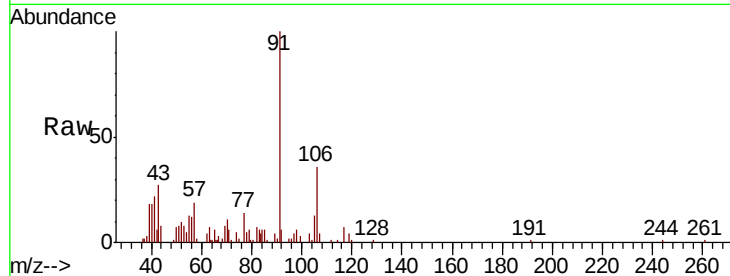
SV1DL

Tot Ion: 91 Resp: 30930

Ion Ratio Lower Upper

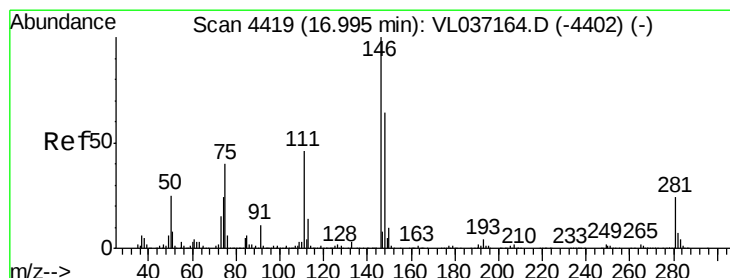
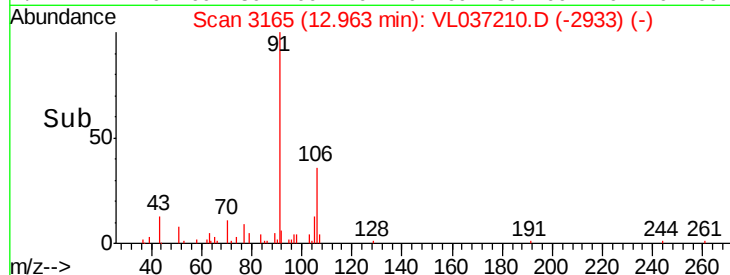
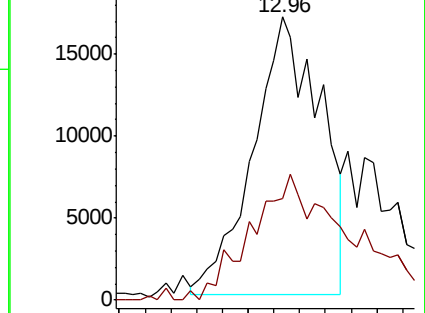
91 100

106 34.1 26.3 39.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#66

Benzyl Chloride

Concen: 0.044 ppbv

RT: 16.98 min Scan# 4414

Delta R.T. -0.02 min

Lab File: VL037210.D

Acq: 17 Jun 2021 20:39

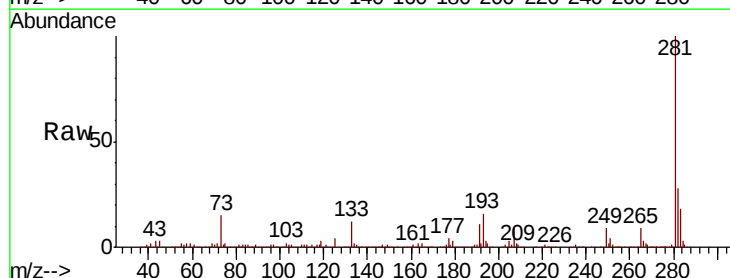
Tgt Ion: 91 Resp: 965

Ion Ratio Lower Upper

91 100

126 0.0 15.5 23.3#

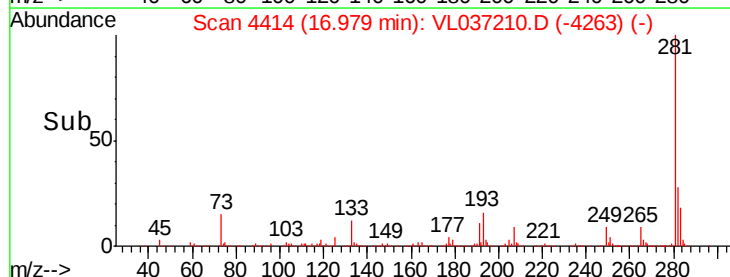
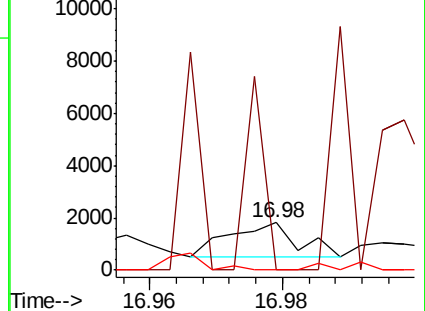
128 0.0 5.7 8.5#

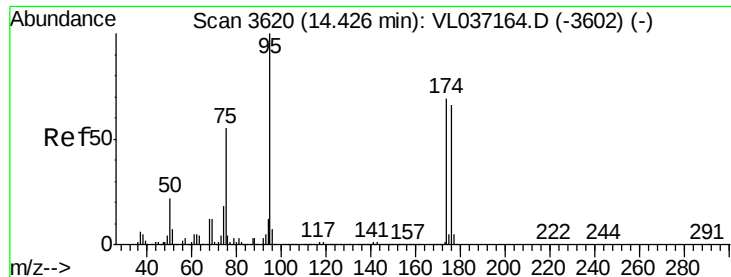


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

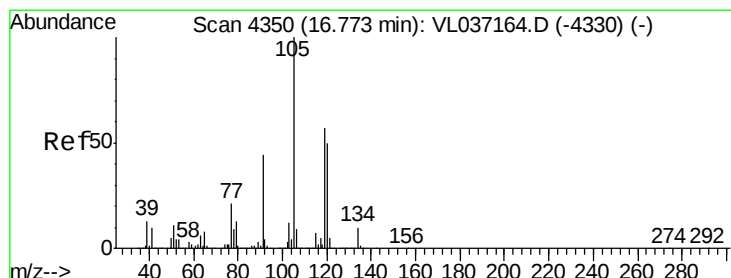
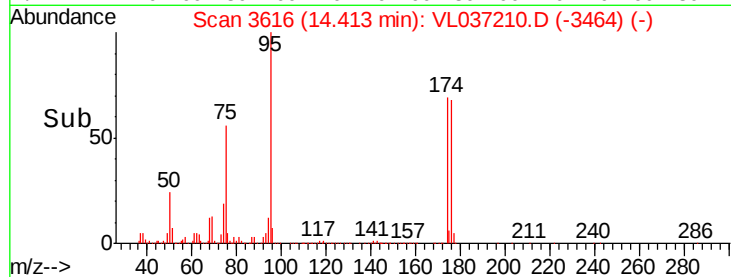
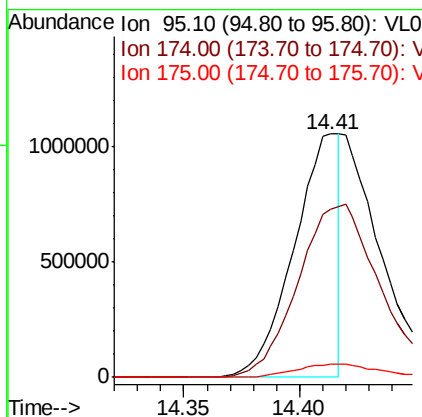
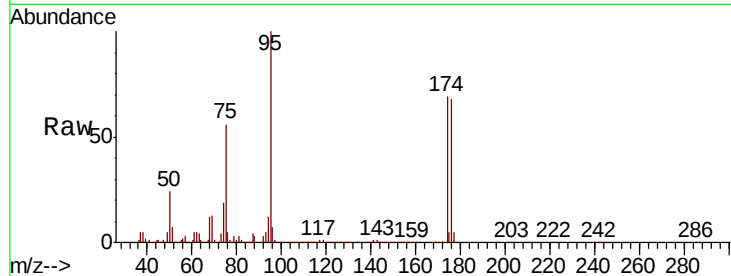




#68
 1-Bromo-4-Fluorobenzene
 Concen: 5.113 ppbv
 RT: 14.41 min Scan# 3616
 Delta R.T. -0.01 min
 Lab File: VL037210.D
 Acq: 17 Jun 2021 20:39

Instrument :
 MSVOA_L
 ClientSampleID :
 SV1DL

Tot Ion: 95 Resp: 1429699
 Ion Ratio Lower Upper
 95 100
 174 146.3 57.0 85.4#
 175 11.0 4.4 6.6#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.080 ppbv
 RT: 16.76 min Scan# 4346
 Delta R.T. -0.01 min
 Lab File: VL037210.D
 Acq: 17 Jun 2021 20:39

Tgt Ion: 105 Resp: 37187
 Ion Ratio Lower Upper
 105 100
 120 45.8 39.8 59.8
 91 4.0 37.0 55.4#
 77 7.7 17.0 25.4#

