

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092821\
 Data File : VL037721.D
 Acq On : 29 Sep 2021 2:55
 Operator : SY/AP
 Sample : M3948-06DL2 80X
 Misc : 400mL/MSVOA L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 29 06:07:00 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	5.67	49	1340507	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4041508	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3426649	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2391413	9.66	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

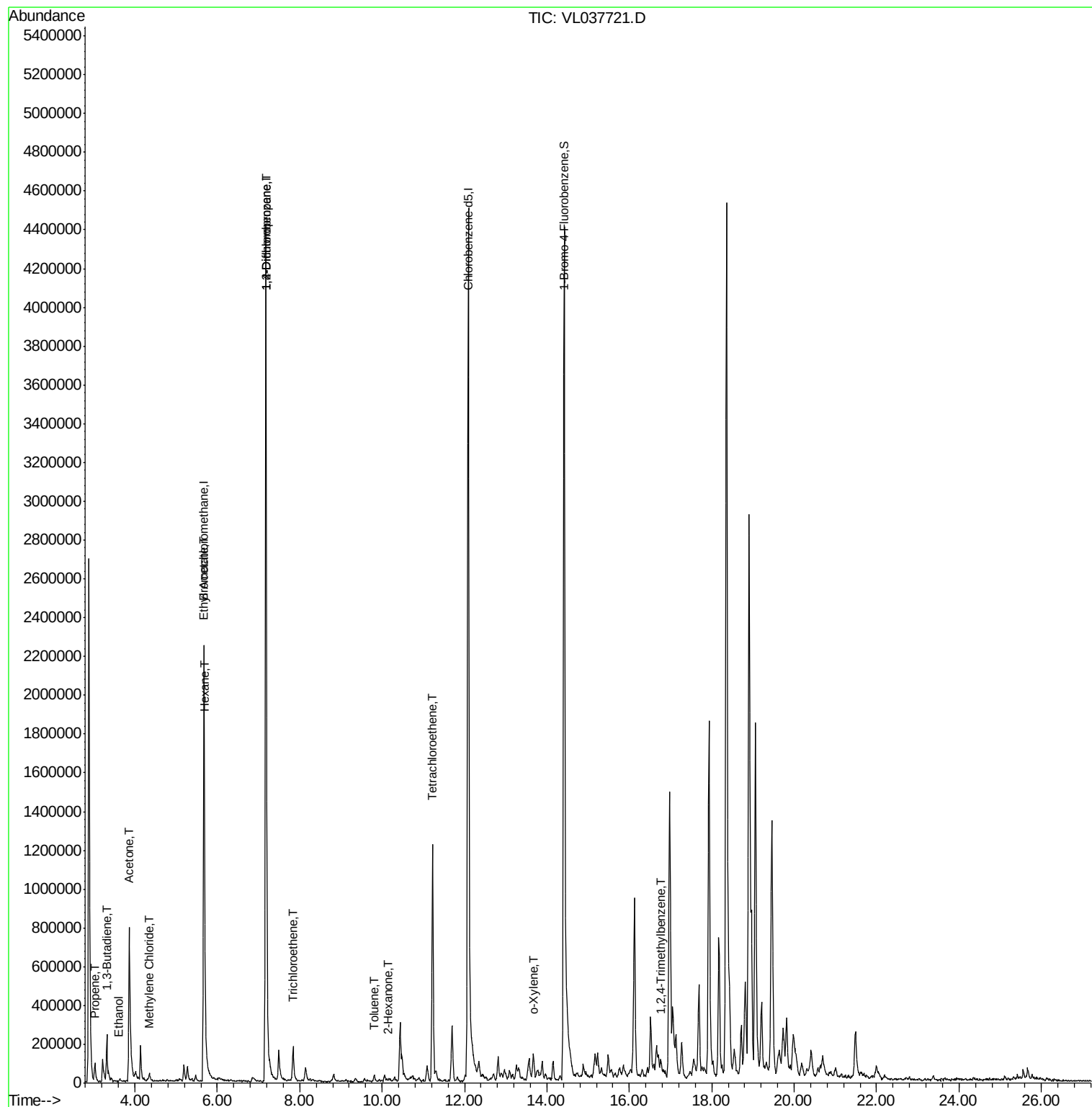
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.03	41	41631	0.467	ppbv	83
13) Ethanol	3.61	45	378	0.043	ppbv #	33
15) Acetone	3.86	43	1315132	9.443	ppbv	99
16) 1,3-Butadiene	3.31	39	65260	0.750	ppbv #	19
20) Methylene Chloride	4.34	84	4238	0.064	ppbv #	78
25) Ethyl Acetate	5.69	43	15315	0.045	ppbv #	76
26) Hexane	5.69	57	42329	0.264	ppbv #	46
38) Trichloroethene	7.84	130	25109	0.178	ppbv	95
39) 1,2-Dichloropropane	7.18	63	905159	7.012	ppbv #	27
51) 2-Hexanone	10.15	43	5031	0.055	ppbv #	18
52) Tetrachloroethene	11.23	164	331140	2.559	ppbv	98
53) Toluene	9.81	91	17310	0.046	ppbv #	84
60) o-Xylene	13.69	91	21609	0.057	ppbv	90
74) 1,2,4-Trimethylbenzene	16.76	105	43616	0.103	ppbv #	72

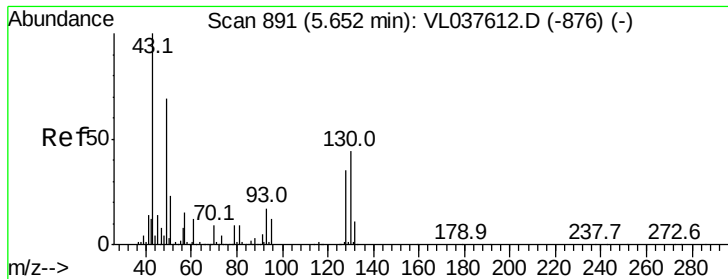
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Sep 2021 2:55

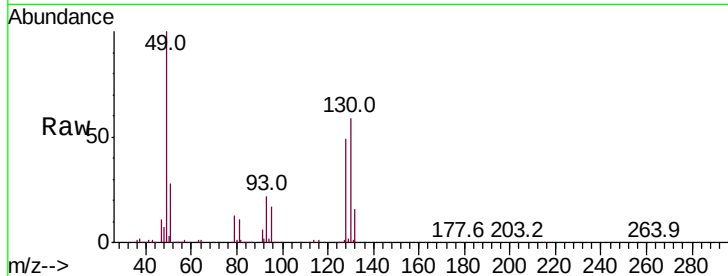
Tot Ion: 49 Resp: 1340507

Ion Ratio Lower Upper

49 100

128 53.0 27.9 83.6

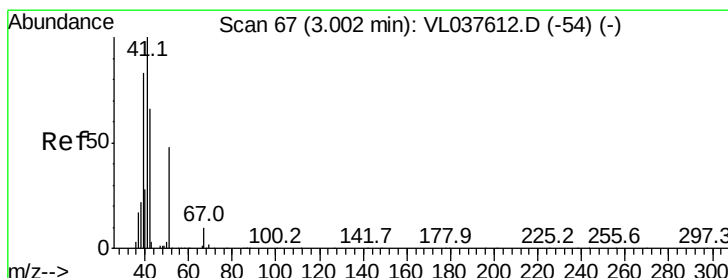
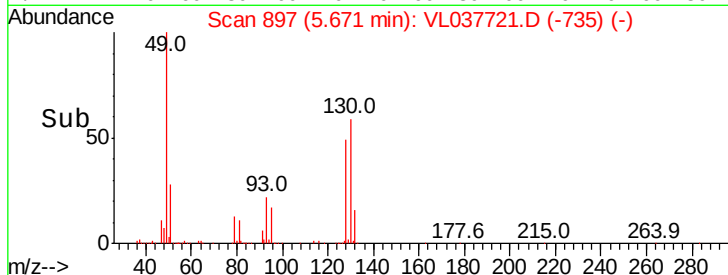
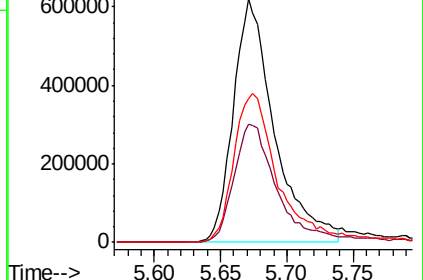
130 68.9 33.9 101.7



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



#9

Propene

Concen: 0.467 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.03 min

Lab File: VL037721.D

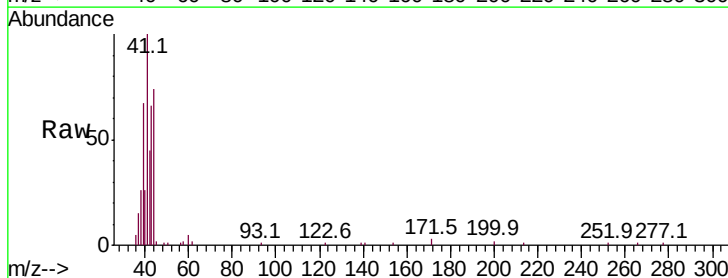
Acq: 29 Sep 2021 2:55

Tgt Ion: 41 Resp: 41631

Ion Ratio Lower Upper

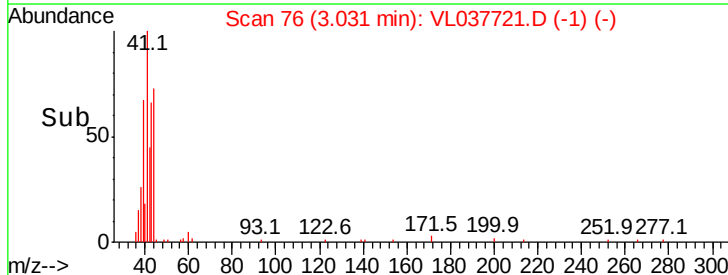
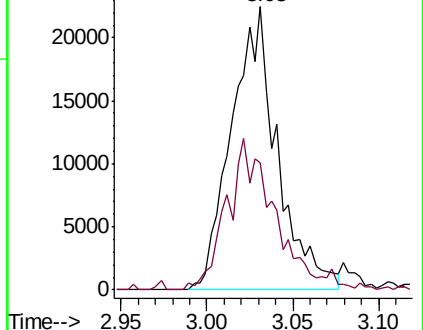
41 100

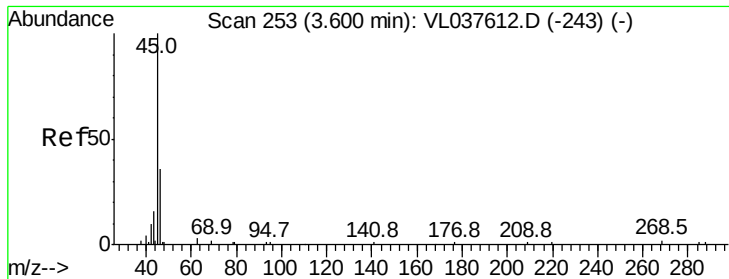
42 57.4 57.2 85.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

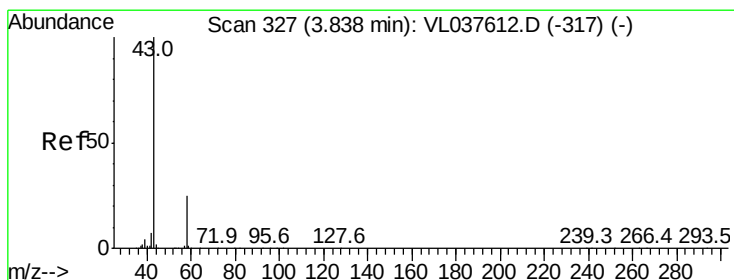
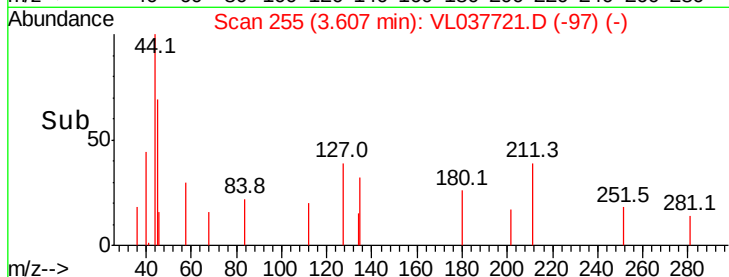
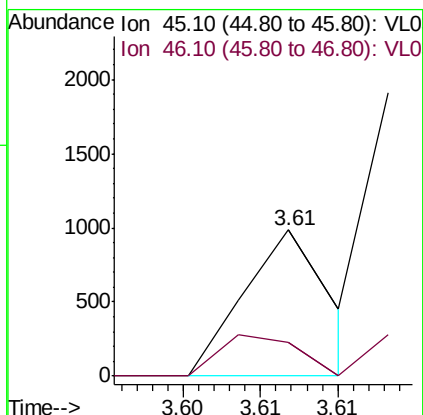
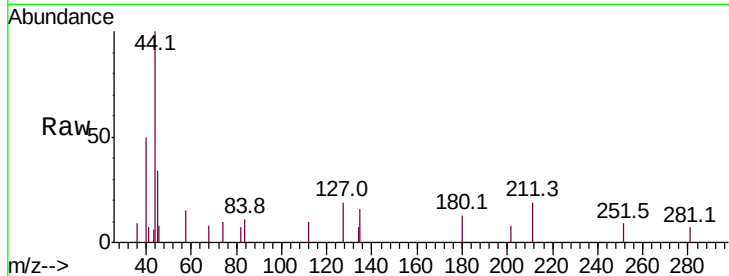
Ion 42.10 (41.80 to 42.80): VL0





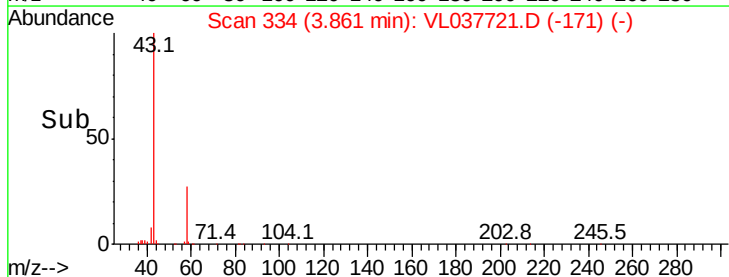
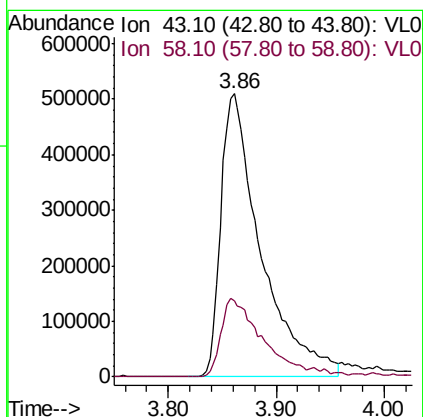
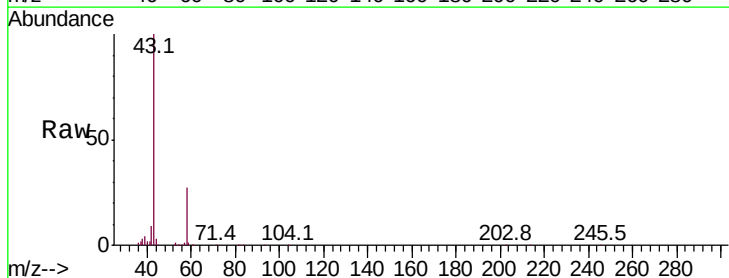
#13
Ethanol
Concen: 0.043 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 29 Sep 2021 2:55

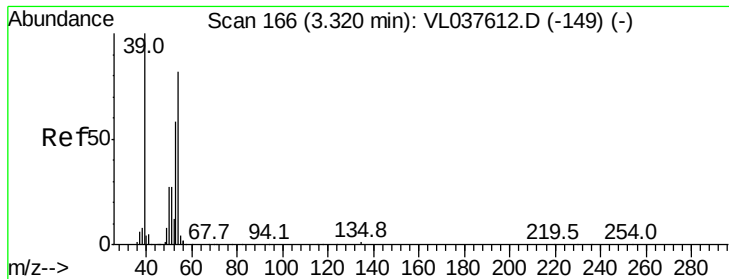
Tot Ion: 45 Resp: 378
Ion Ratio Lower Upper
45 100
46 0.0 17.2 68.8#



#15
Acetone
Concen: 9.443 ppbv
RT: 3.86 min Scan# 334
Delta R.T. 0.02 min
Lab File: VL037721.D
Acq: 29 Sep 2021 2:55

Tgt Ion: 43 Resp: 1315132
Ion Ratio Lower Upper
43 100
58 30.5 24.9 37.3





#16

1,3-Butadiene

Concen: 0.750 ppbv

RT: 3.31 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

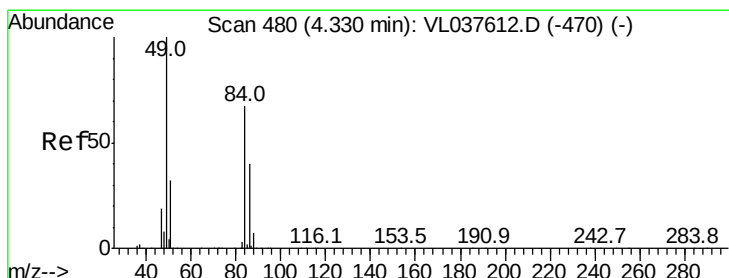
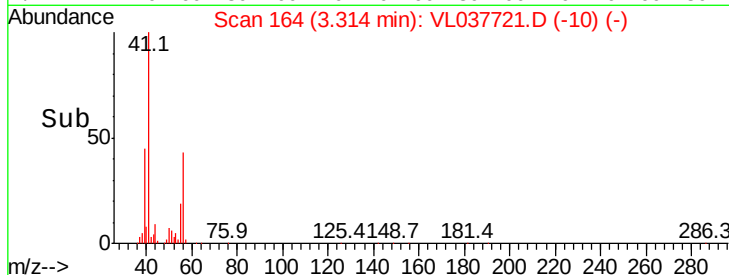
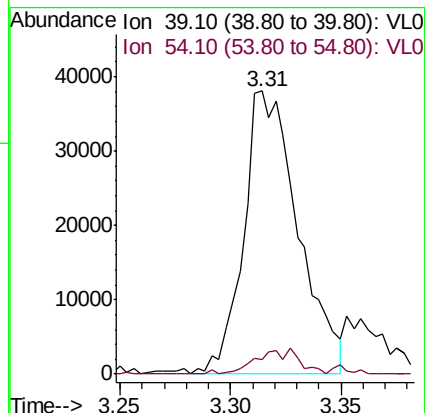
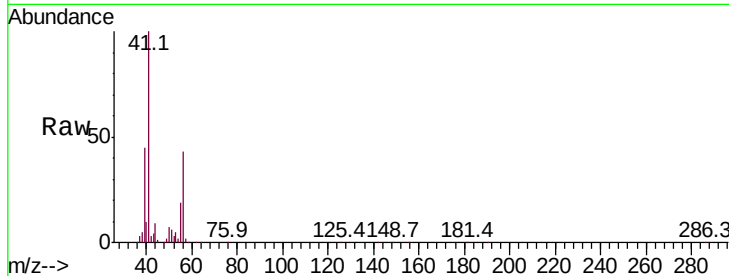
Acq: 29 Sep 2021 2:55

Tot Ion: 39 Resp: 65260

Ion Ratio Lower Upper

39 100

54 8.0 62.6 93.8#



#20

Methylene Chloride

Concen: 0.064 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.01 min

Lab File: VL037721.D

Acq: 29 Sep 2021 2:55

Tgt Ion: 84 Resp: 4238

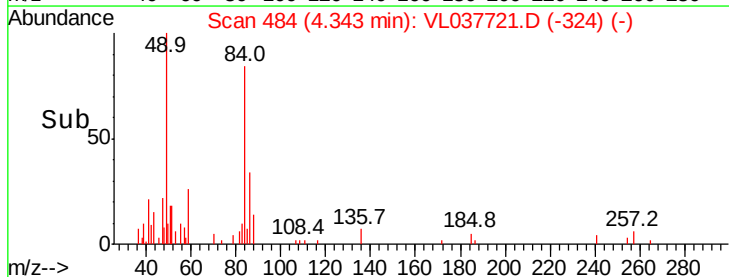
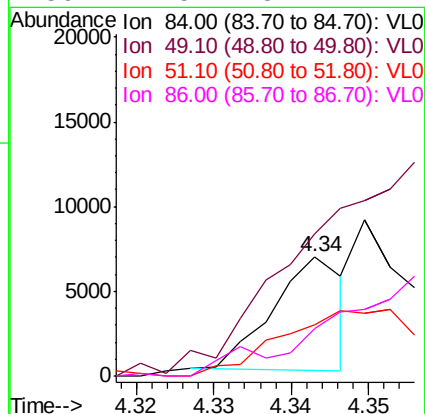
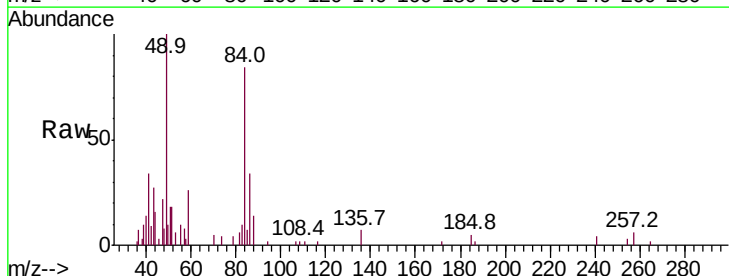
Ion Ratio Lower Upper

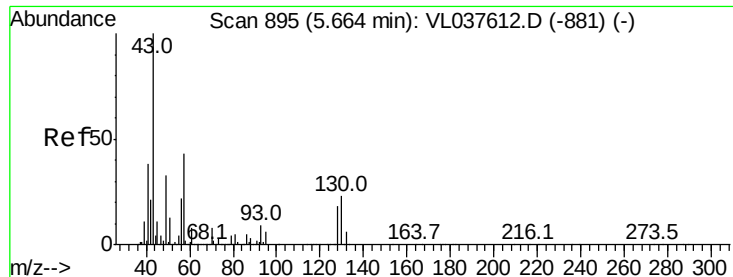
84 100

49 116.1 120.0 180.0#

51 45.4 38.0 57.0

86 42.5 48.2 72.2#





#25

Ethyl Acetate

Concen: 0.045 ppbv

RT: 5.69 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Sep 2021 2:55

Tot Ion: 43 Resp: 15315

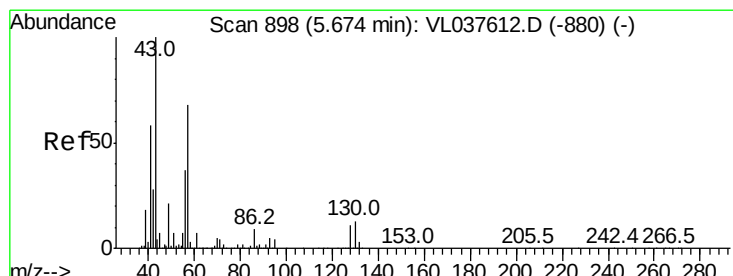
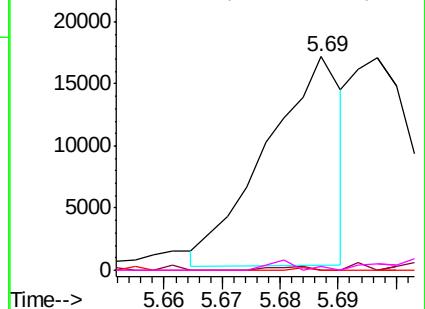
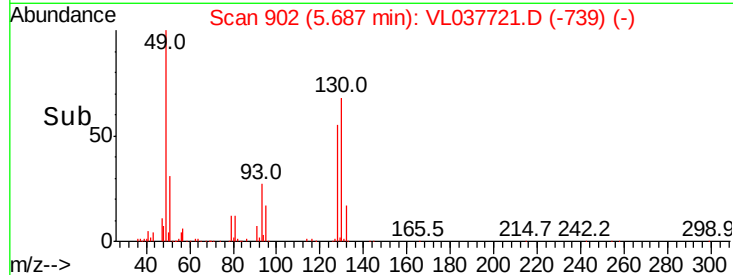
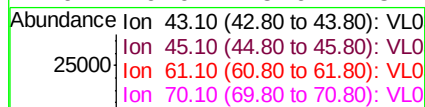
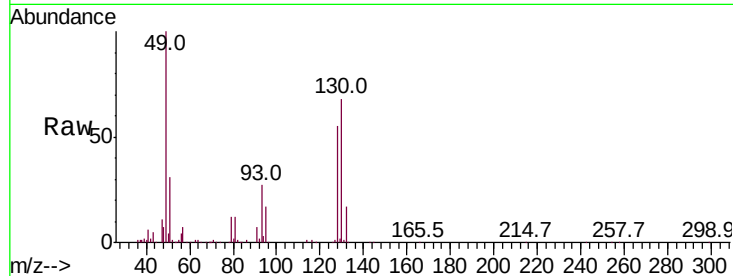
Ion Ratio Lower Upper

43 100

45 0.0 8.0 12.0#

61 0.4 7.5 11.3#

70 0.0 5.6 8.4#



#26

Hexane

Concen: 0.264 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.02 min

Lab File: VL037721.D

Acq: 29 Sep 2021 2:55

Tgt Ion: 57 Resp: 42329

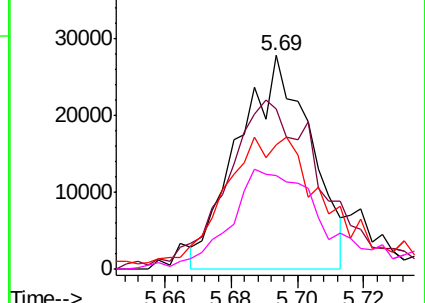
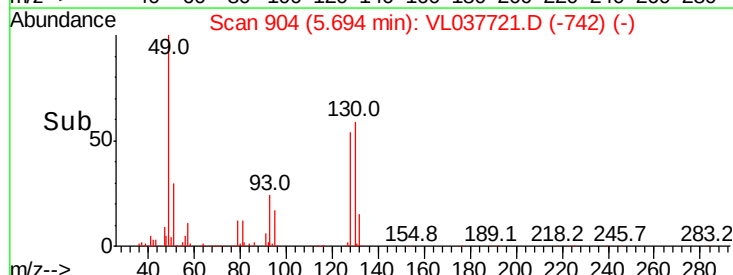
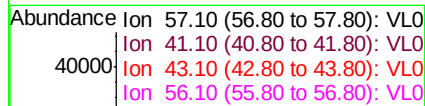
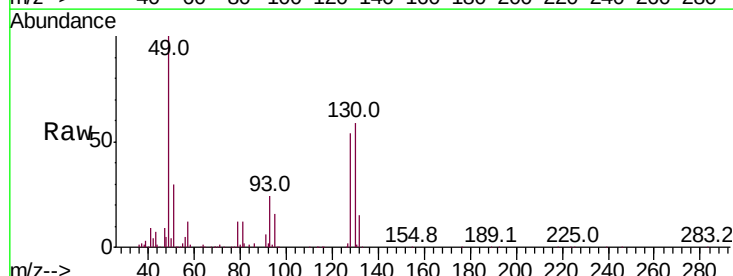
Ion Ratio Lower Upper

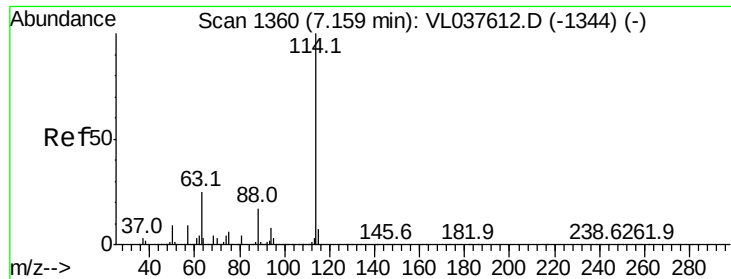
57 100

41 110.5 70.9 106.3#

43 94.5 170.4 255.6#

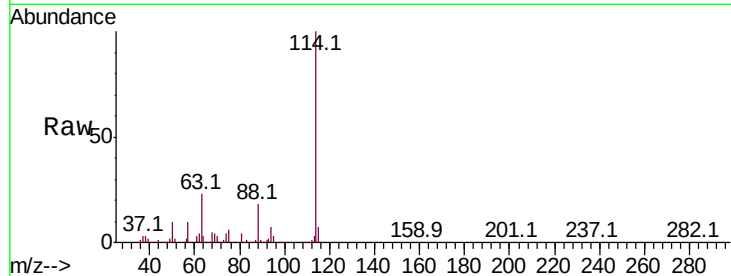
56 66.9 42.6 64.0#



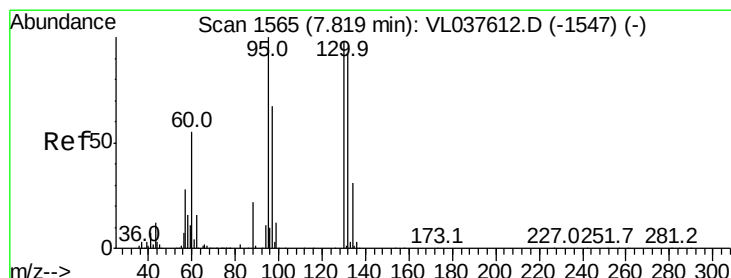
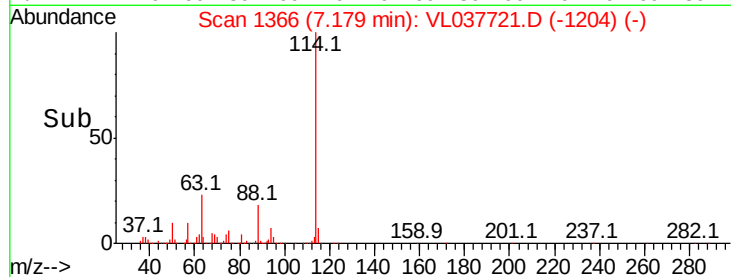
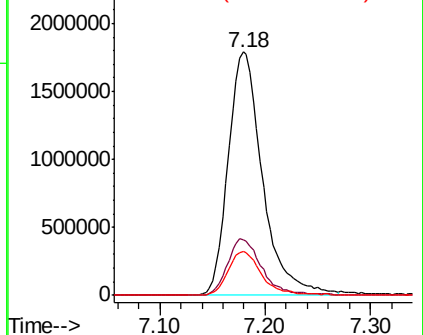


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 29 Sep 2021 2:55

Tot Ion:	114	Resp:	4041508
Ion	Ratio	Lower	Upper
114	100		
63	23.5	19.6	29.4
88	18.2	14.2	21.4

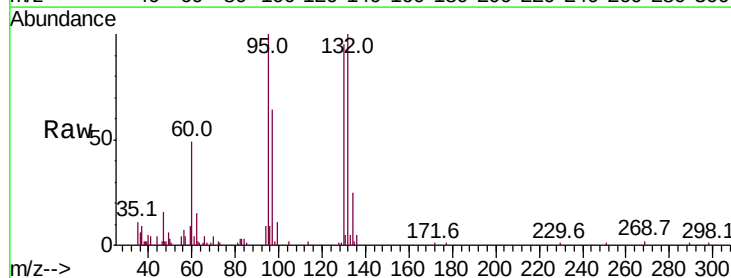


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

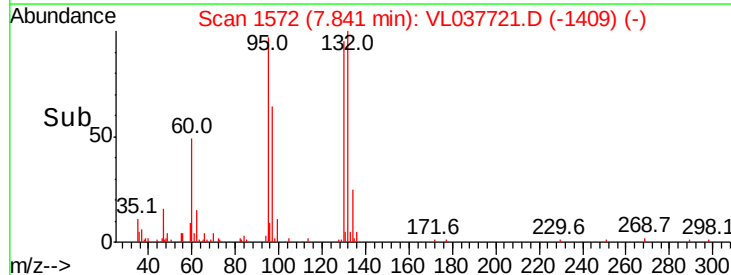
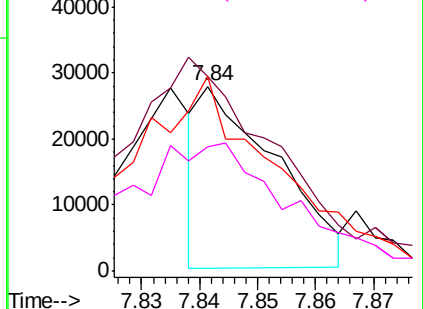


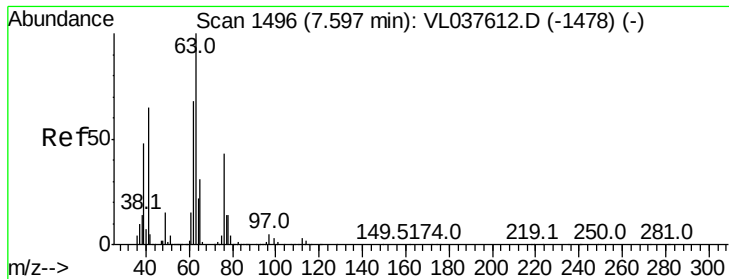
#38
 Trichloroethene
 Concen: 0.178 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T.: 0.02 min
 Lab File: VL037721.D
 Acq: 29 Sep 2021 2:55

Tgt Ion:	130	Resp:	25109
Ion	Ratio	Lower	Upper
130	100		
95	100.4	81.8	122.6
132	92.1	75.3	112.9
97	58.0	54.7	82.1



Abundance Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): V
 Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 7.012 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_1

Lab File:

Acq: 29 Sep 2021 2:55

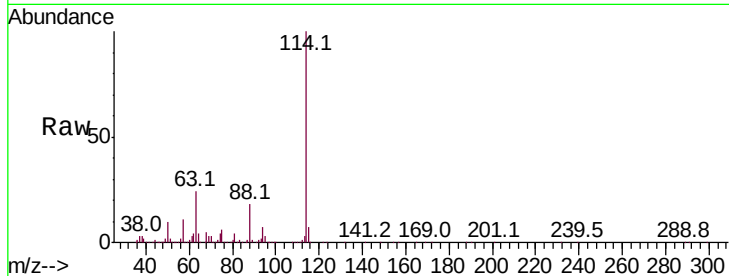
Tot Ion: 63 Resp: 905159

Ion Ratio Lower Upper

63 100

41 0.1 51.6 77.4#

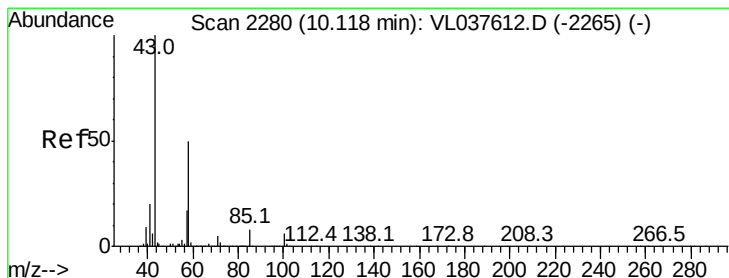
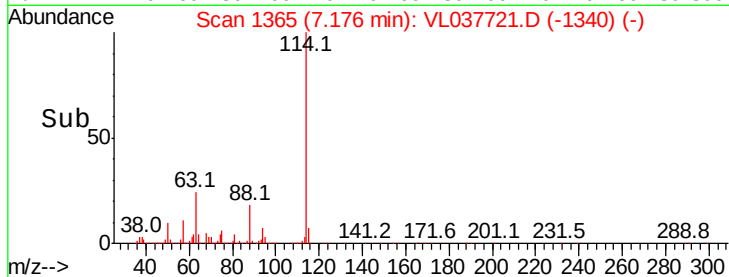
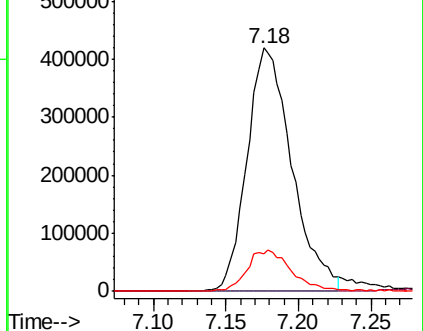
62 15.3 54.6 81.8#



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



#51

2-Hexanone

Concen: 0.055 ppbv

RT: 10.15 min Scan# 2291

Delta R.T. 0.04 min

Lab File: VL037721.D

Acq: 29 Sep 2021 2:55

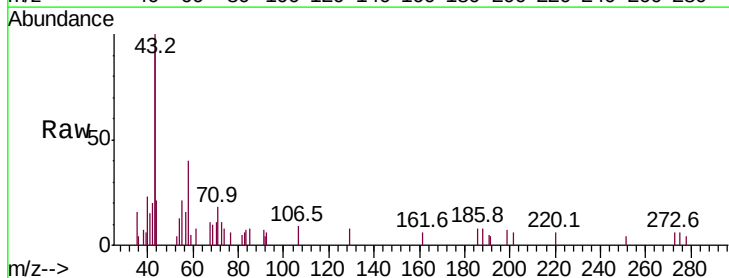
Tgt Ion: 43 Resp: 5031

Ion Ratio Lower Upper

43 100

58 105.3 39.3 58.9#

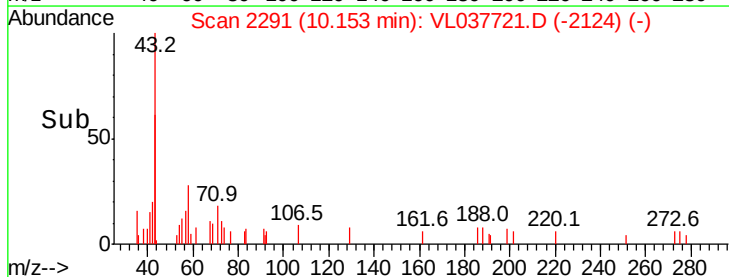
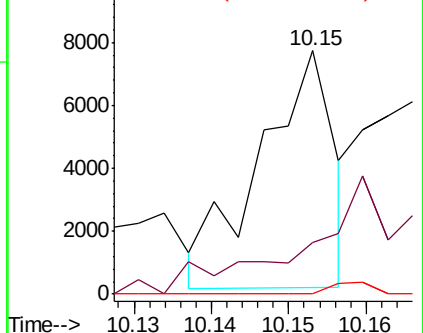
98 0.0 0.4 0.6#

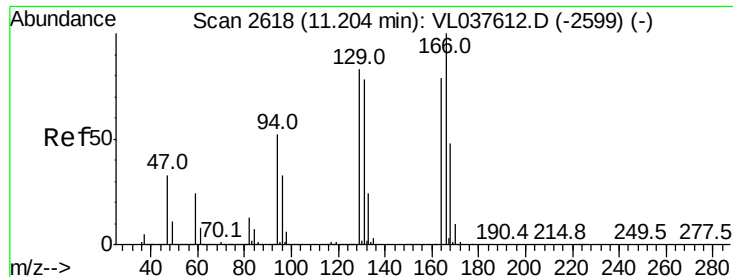


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0





#52

Tetrachloroethene

Concen: 2.559 ppbv

RT: 11.23

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 29 Sep 2021 2:55

Tot Ion:164 Resp: 331140

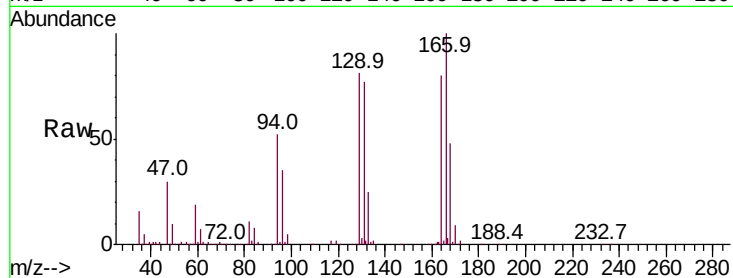
Ion Ratio Lower Upper

164 100

166 124.9 101.2 151.8

129 101.6 84.0 126.0

131 96.4 78.8 118.2



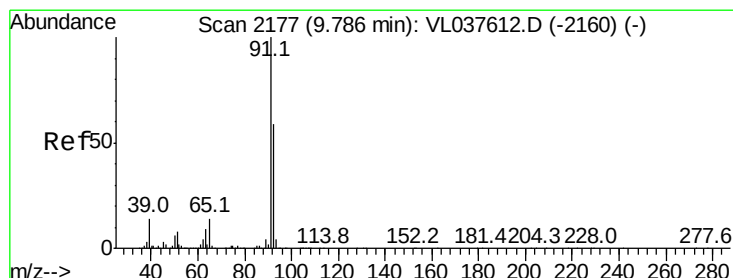
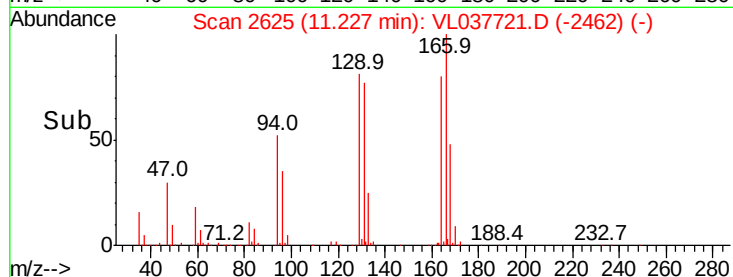
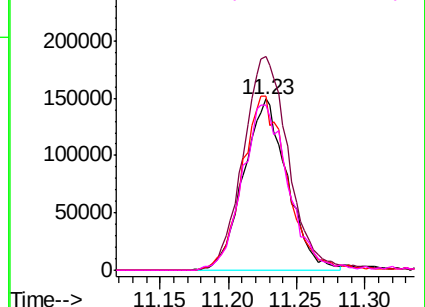
Abundance

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: 0.046 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.02 min

Lab File: VL037721.D

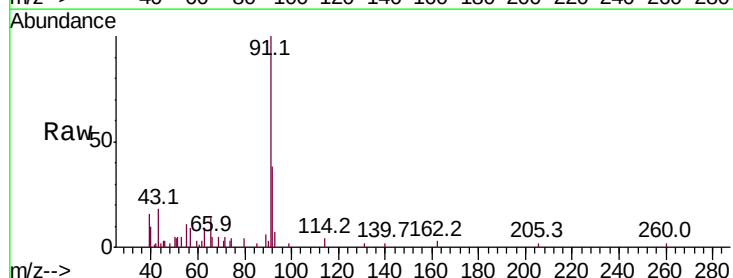
Acq: 29 Sep 2021 2:55

Tgt Ion: 91 Resp: 17310

Ion Ratio Lower Upper

91 100

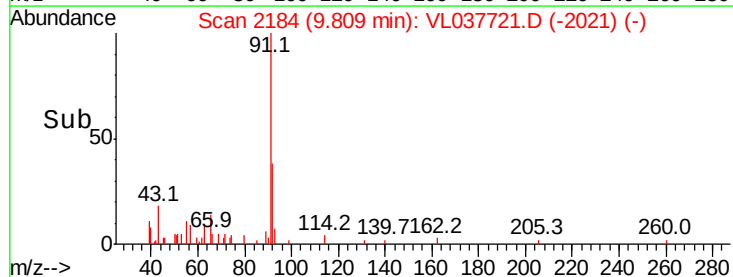
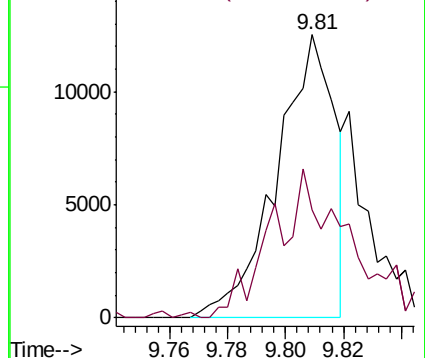
92 73.6 48.9 73.3#

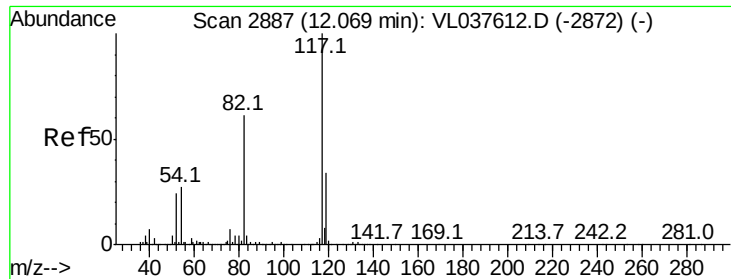


Abundance

Ion 91.10 (90.80 to 91.80): VL0

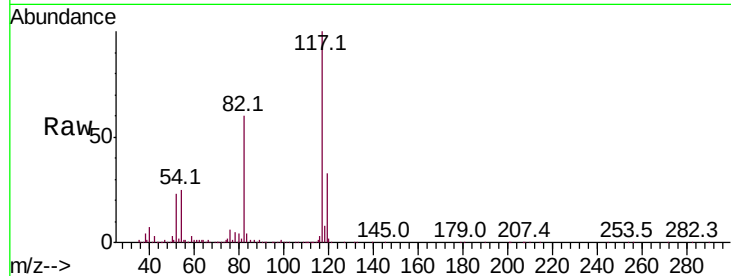
Ion 92.10 (91.80 to 92.80): VL0



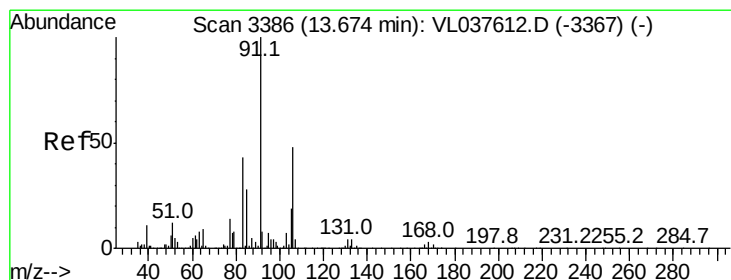
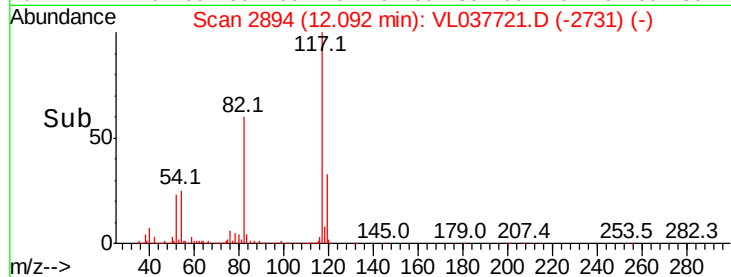
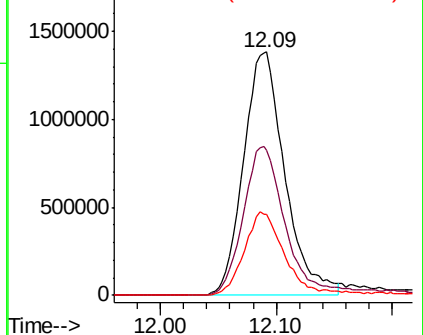


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 29 Sep 2021 2:55

Tot Ion:117 Resp: 3426649
Ion Ratio Lower Upper
117 100
82 66.5 50.6 75.8
119 34.7 26.2 39.2

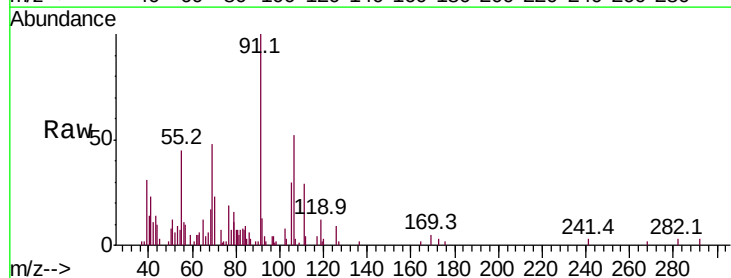


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

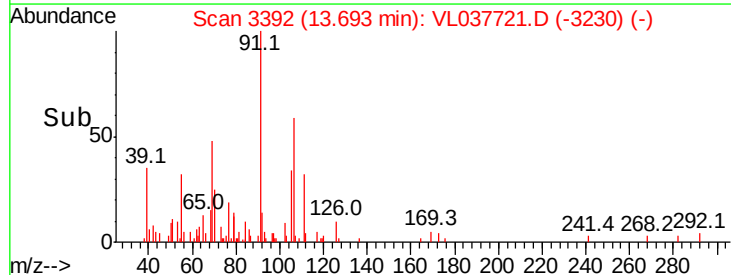
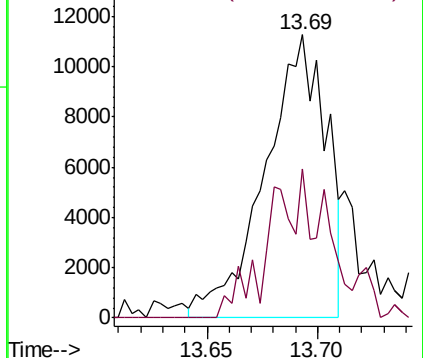


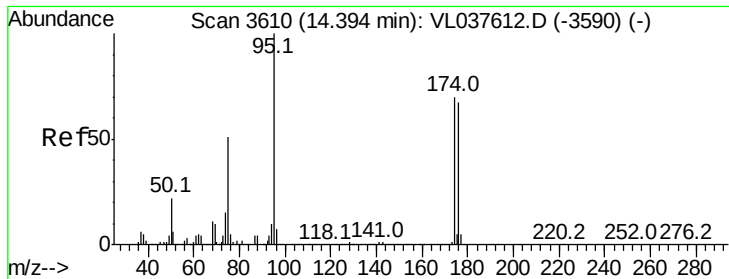
#60
o-Xylene
Concen: 0.057 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. 0.02 min
Lab File: VL037721.D
Acq: 29 Sep 2021 2:55

Tgt Ion: 91 Resp: 21609
Ion Ratio Lower Upper
91 100
106 52.3 23.0 69.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.657 ppbv

RT: 14.42 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Sep 2021 2:55

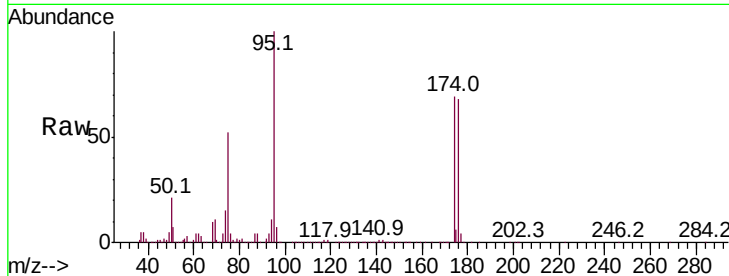
Tot Ion: 95 Resp: 2391413

Ion Ratio Lower Upper

95 100

174 79.9 56.3 84.5

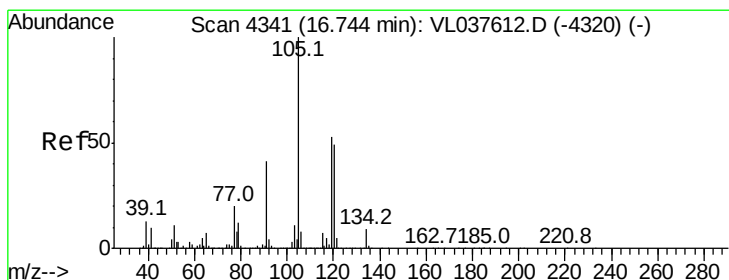
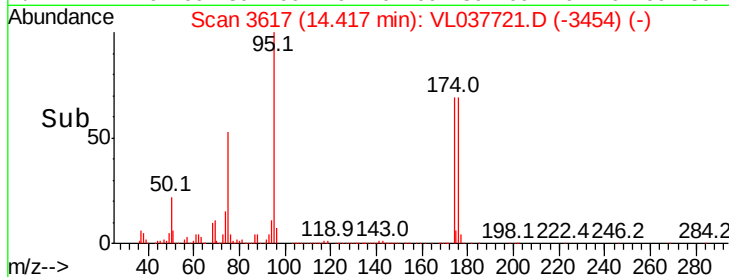
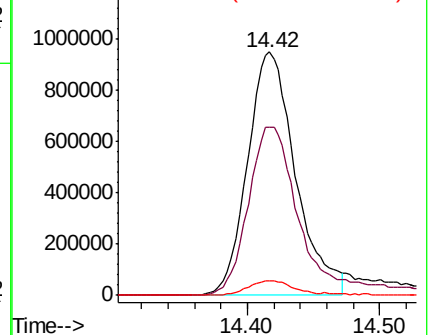
175 6.1 4.4 6.6



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



#74

1,2,4-Trimethylbenzene

Concen: 0.103 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. 0.02 min

Lab File: VL037721.D

Acq: 29 Sep 2021 2:55

Tgt Ion: 105 Resp: 43616

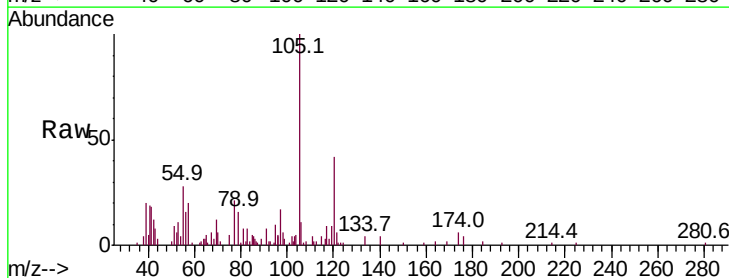
Ion Ratio Lower Upper

105 100

120 42.7 39.4 59.0

91 2.3 33.3 49.9#

77 18.9 15.7 23.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

