

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092821\
 Data File : VL037714.D
 Acq On : 28 Sep 2021 22:33
 Operator : SY/AP
 Sample : M3948-03DL2 80X
 Misc : 400mL/MSVOA L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 29 03:42:34 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	1311876	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4127107	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3403187	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2474744	10.06	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

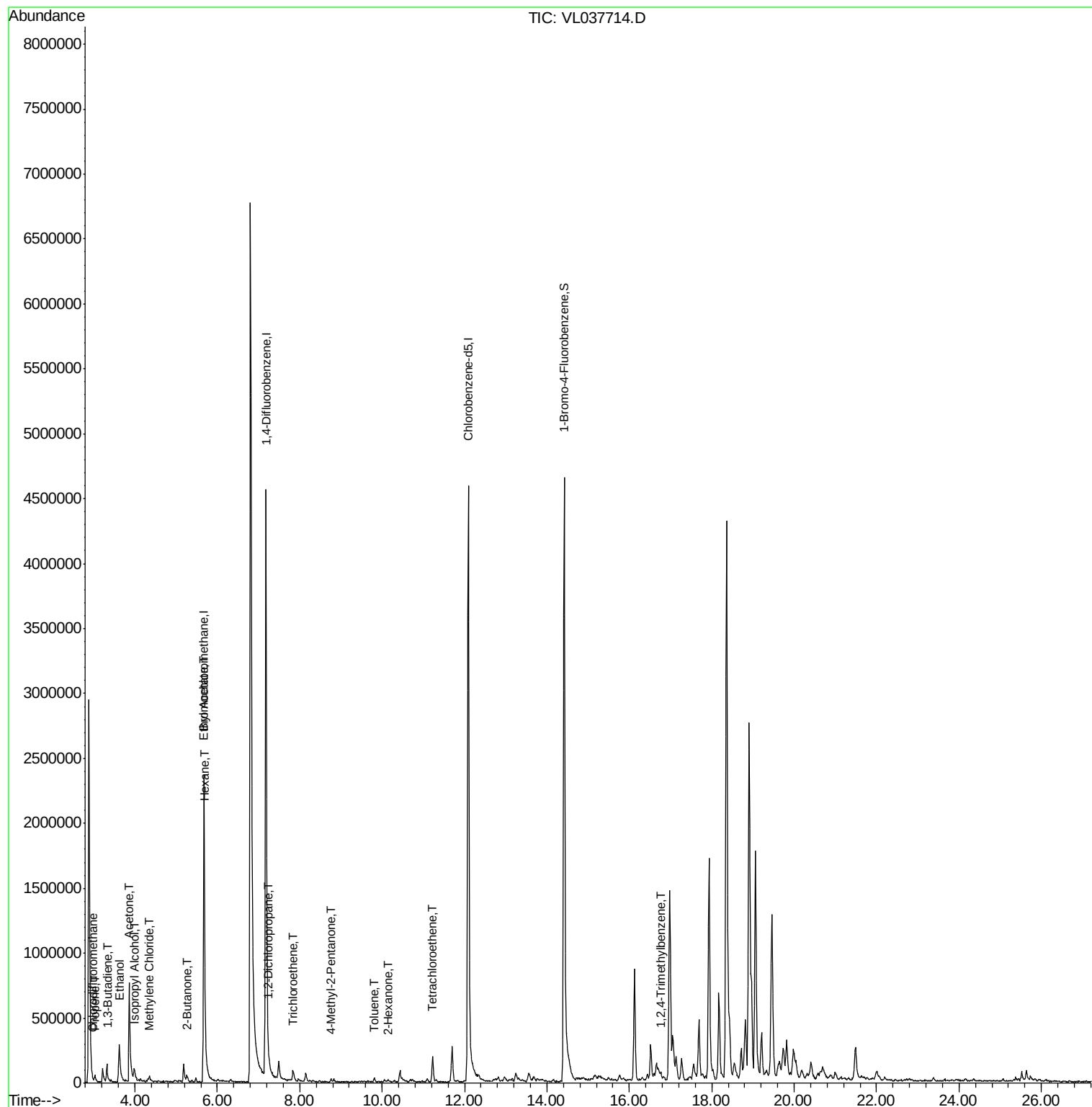
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	10191	0.041	ppbv #	72
9) Propene	3.02	41	9833	0.113	ppbv #	14
13) Ethanol	3.61	45	167493	19.618	ppbv #	33
15) Acetone	3.86	43	1083341	7.948	ppbv	99
16) 1,3-Butadiene	3.34	39	3041	0.036	ppbv #	10
19) Isopropyl Alcohol	3.98	45	47141	0.636	ppbv #	89
20) Methylene Chloride	4.35	84	4395	0.068	ppbv #	59
25) Ethyl Acetate	5.69	43	11493	0.035	ppbv #	78
26) Hexane	5.69	57	43740	0.279	ppbv #	45
34) 2-Butanone	5.26	43	41189	0.246	ppbv #	53
38) Trichloroethene	7.84	130	26921	0.187	ppbv #	75
39) 1,2-Dichloropropane	7.24	63	10180	0.077	ppbv #	33
50) 4-Methyl-2-Pentanone	8.75	43	7489	0.035	ppbv #	38
51) 2-Hexanone	10.14	43	7204	0.077	ppbv #	38
52) Tetrachloroethene	11.22	164	47536	0.360	ppbv	94
53) Toluene	9.81	91	15554	0.041	ppbv #	41
74) 1,2,4-Trimethylbenzene	16.77	105	17641	0.042	ppbv #	75

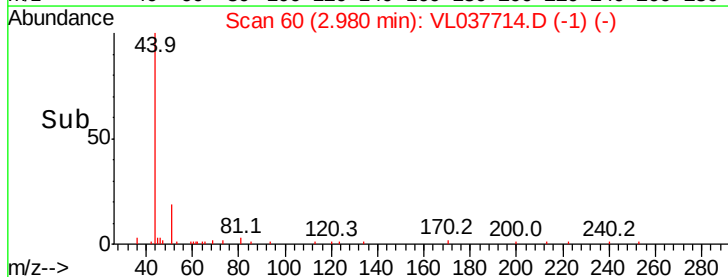
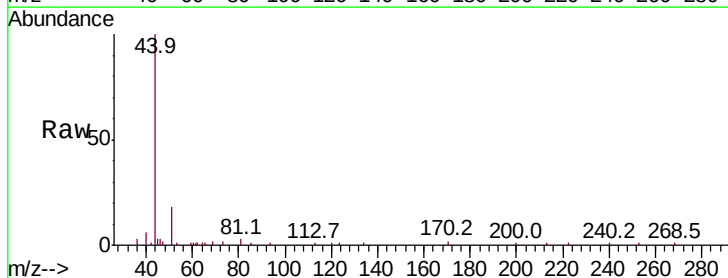
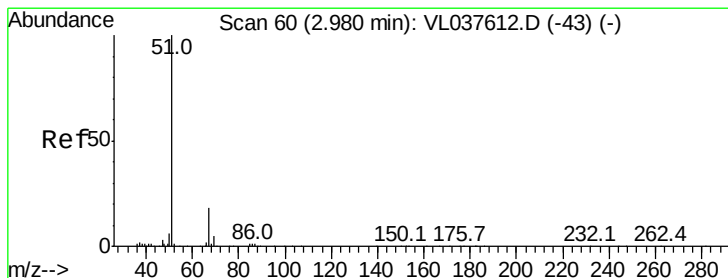
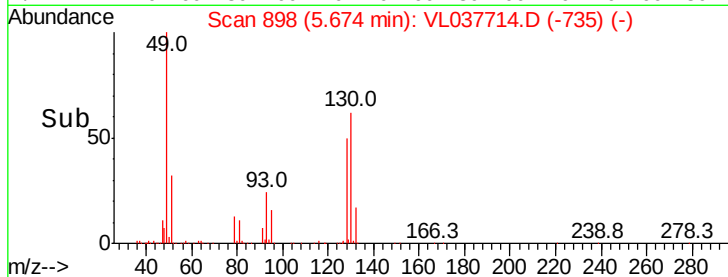
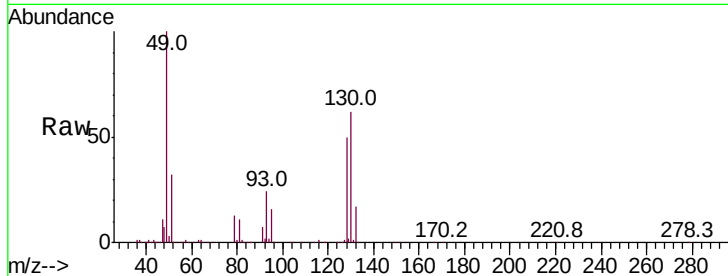
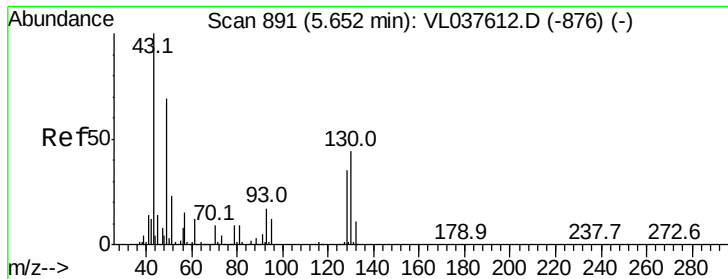
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 16 13:42:46 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File:

Acq: 28 Sep 2021 22:33

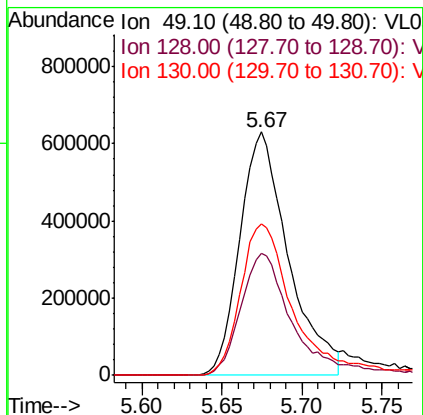
Tot Ion: 49 Resp: 1311876

Ion Ratio Lower Upper

49 100

128 55.8 27.9 83.6

130 70.7 33.9 101.7



#3

Chlorodifluoromethane

Concen: 0.041 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.00 min

Lab File: VL037714.D

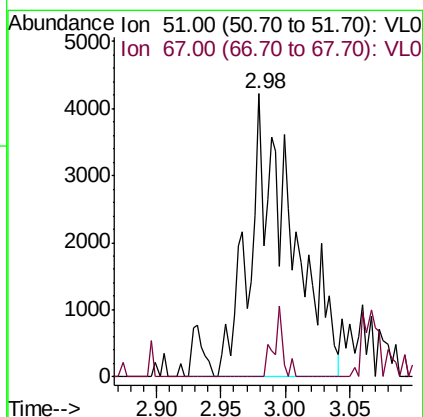
Acq: 28 Sep 2021 22:33

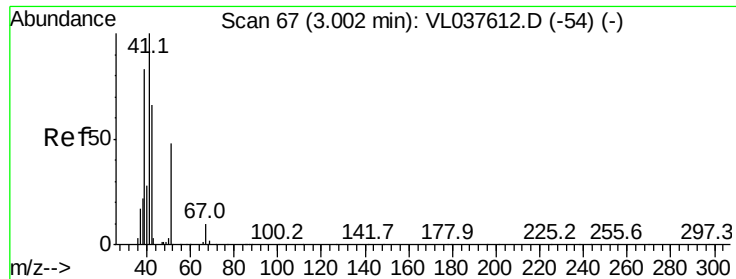
Tgt Ion: 51 Resp: 10191

Ion Ratio Lower Upper

51 100

67 5.1 14.0 21.0#





#9

Propene

Concen: 0.113 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

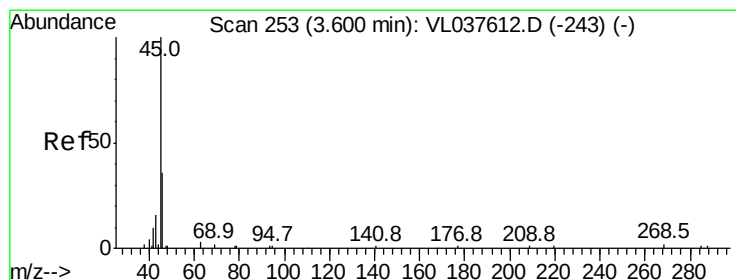
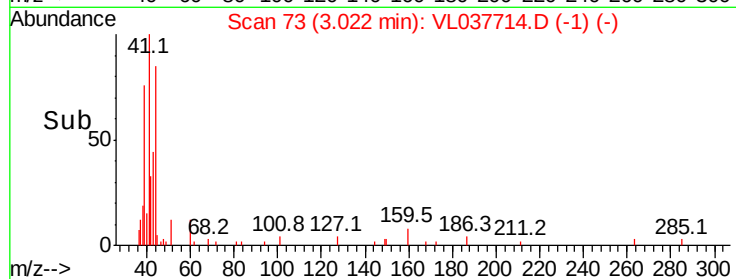
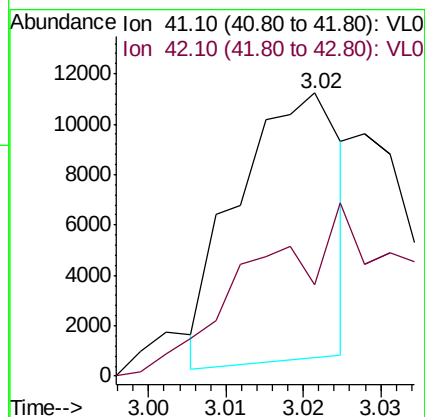
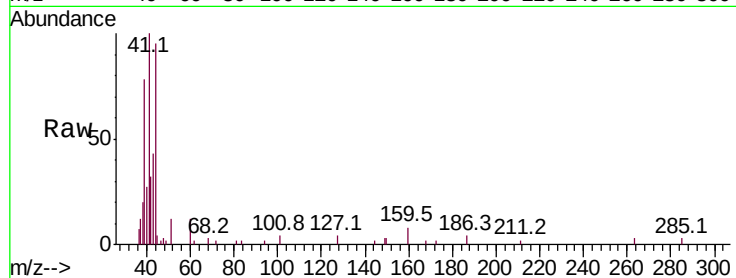
Acq: 28 Sep 2021 22:33

Tot Ion: 41 Resp: 9833

Ion Ratio Lower Upper

41 100

42 0.0 57.2 85.8#



#13

Ethanol

Concen: 19.618 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL037714.D

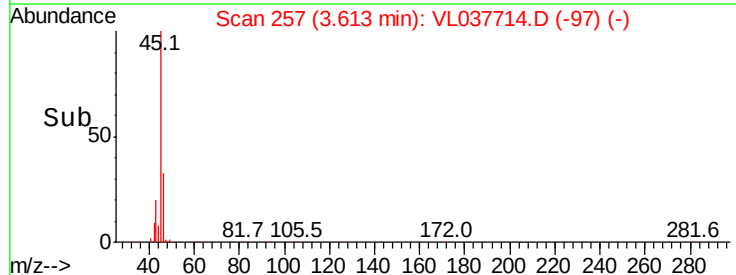
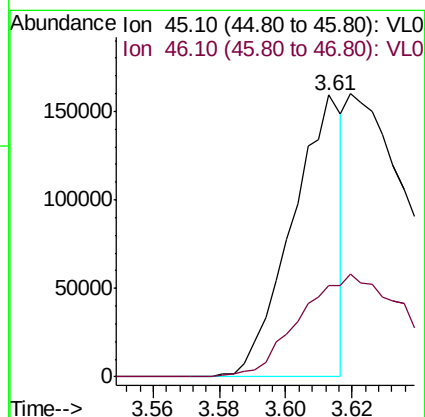
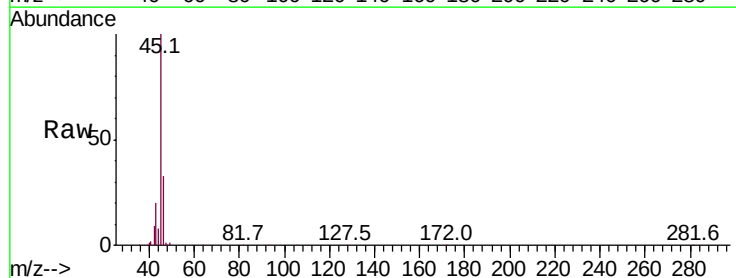
Acq: 28 Sep 2021 22:33

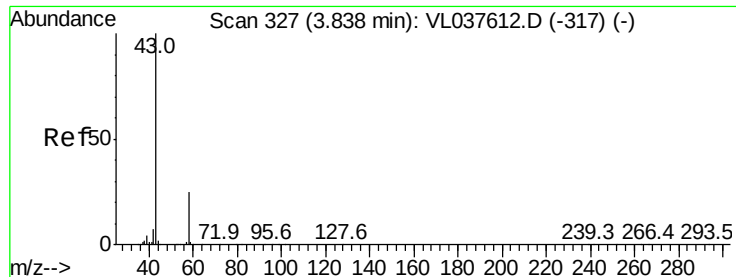
Tgt Ion: 45 Resp: 167493

Ion Ratio Lower Upper

45 100

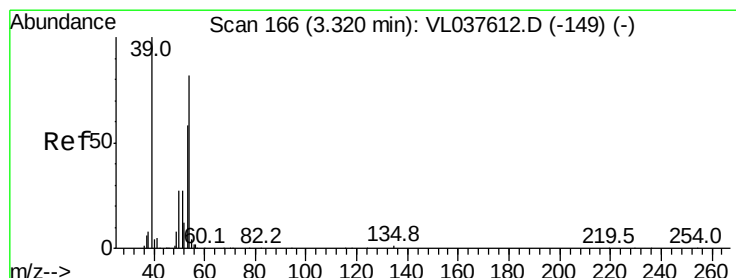
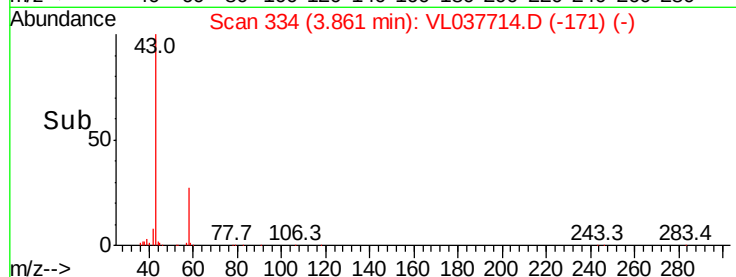
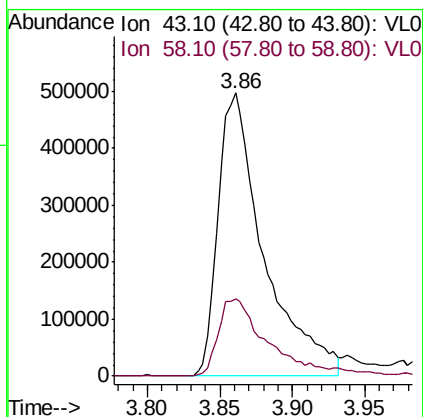
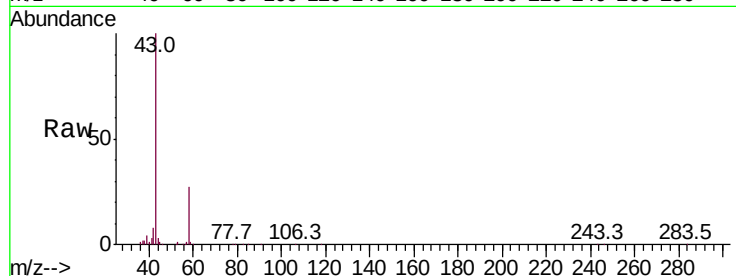
46 0.0 17.2 68.8#





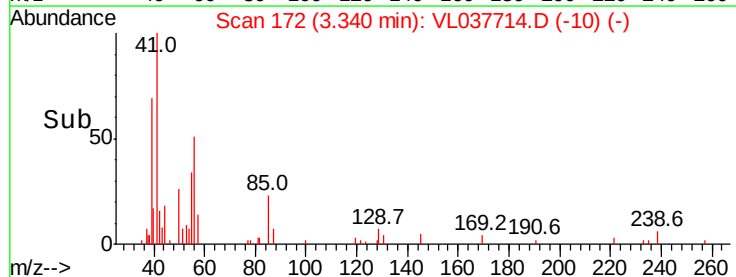
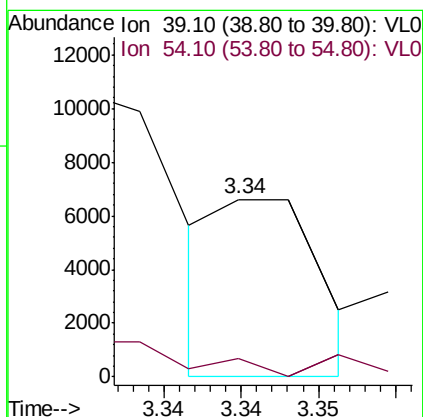
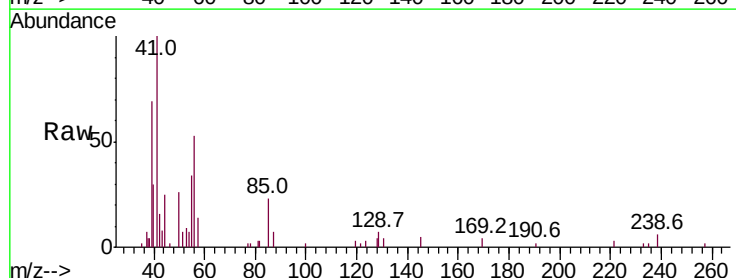
#15
Acetone
Concen: 7.948 ppbv
RT: 3.86
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Sep 2021 22:33

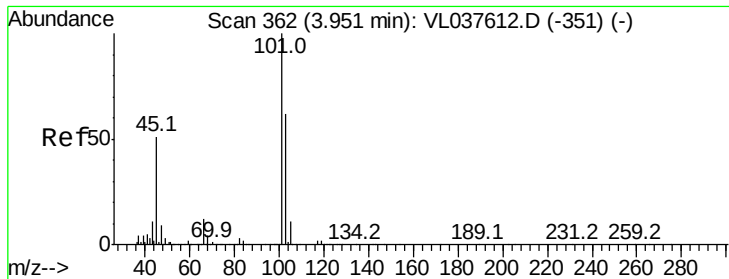
Tot Ion: 43 Resp: 1083341
Ion Ratio Lower Upper
43 100
58 30.7 24.9 37.3



#16
1,3-Butadiene
Concen: 0.036 ppbv
RT: 3.34 min Scan# 172
Delta R.T. 0.02 min
Lab File: VL037714.D
Acq: 28 Sep 2021 22:33

Tgt Ion: 39 Resp: 3041
Ion Ratio Lower Upper
39 100
54 0.0 62.6 93.8#





#19

Isopropyl Alcohol

Concen: 0.636 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

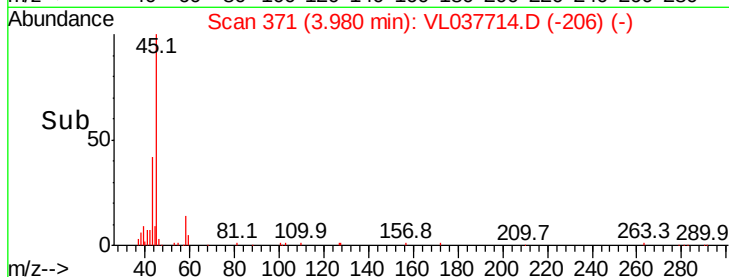
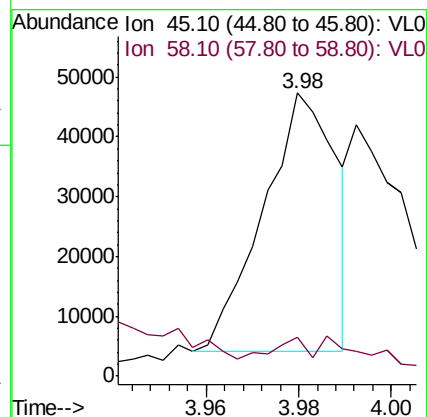
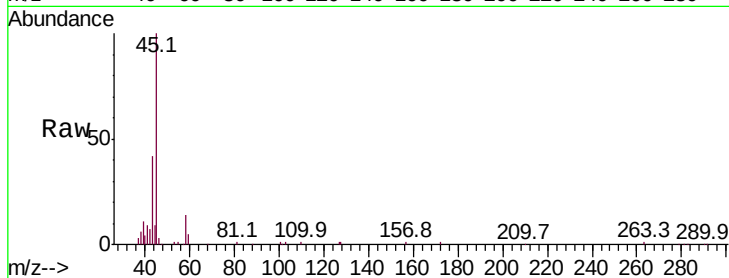
Acq: 28 Sep 2021 22:33

Tot Ion: 45 Resp: 47141

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#



#20

Methylene Chloride

Concen: 0.068 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.02 min

Lab File: VL037714.D

Acq: 28 Sep 2021 22:33

Tgt Ion: 84 Resp: 4395

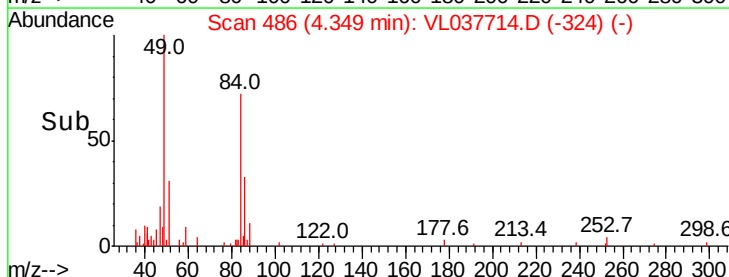
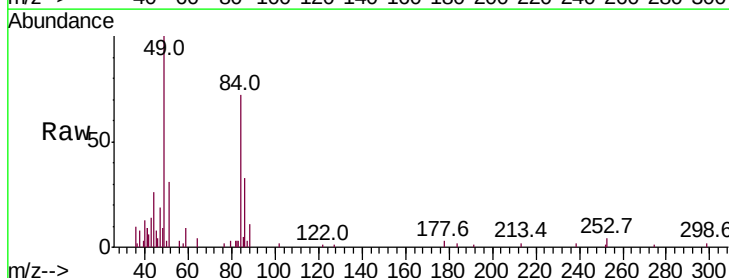
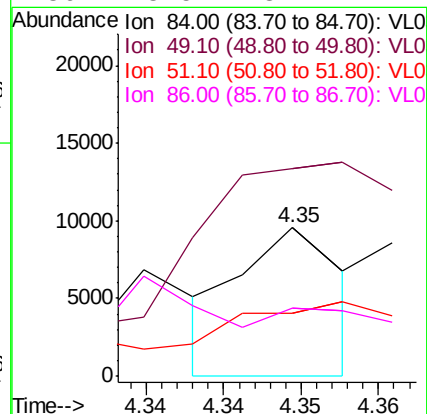
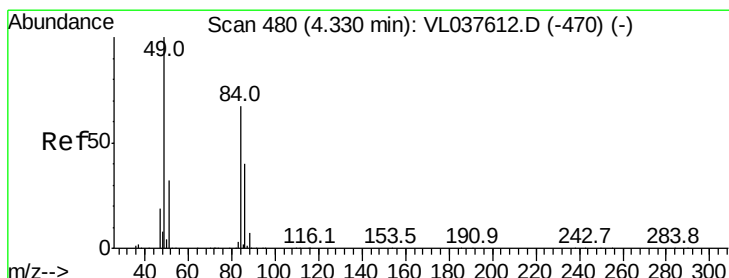
Ion Ratio Lower Upper

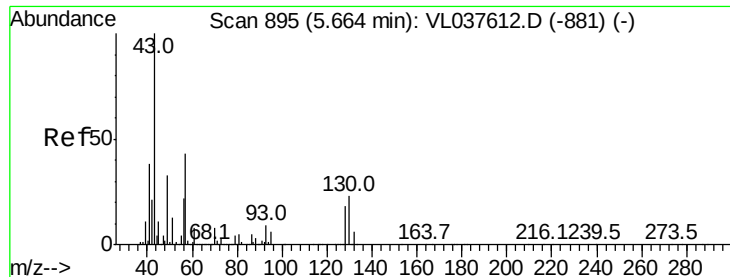
84 100

49 100.5 120.0 180.0#

51 44.9 38.0 57.0

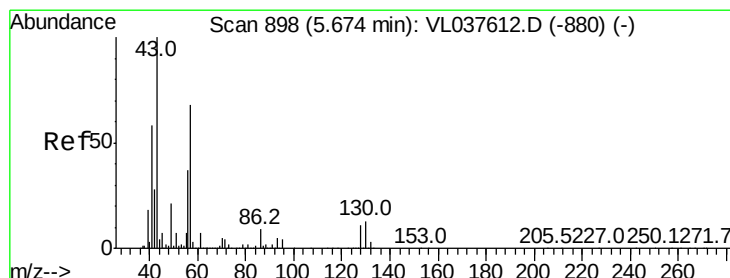
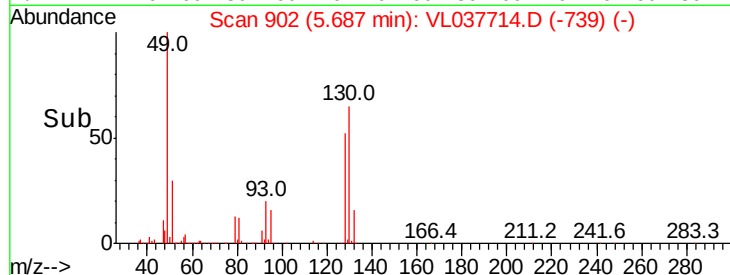
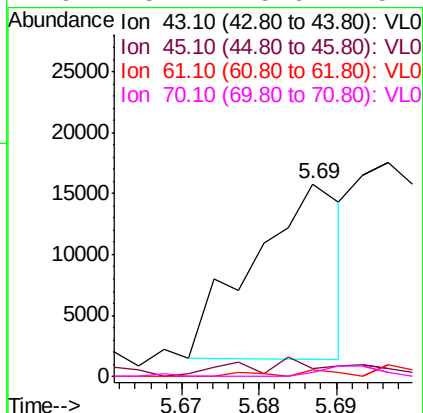
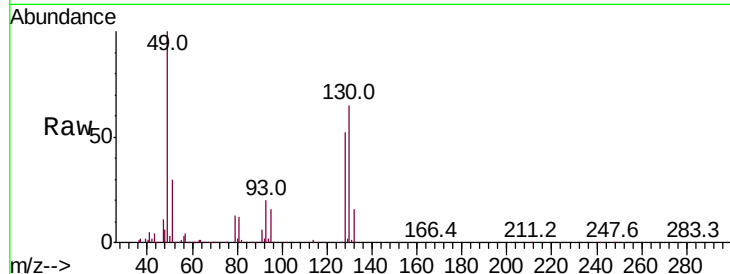
86 3.5 48.2 72.2#





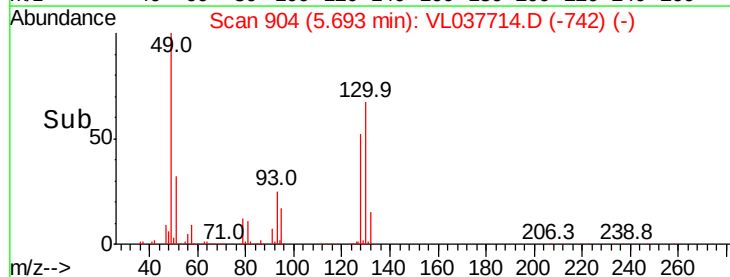
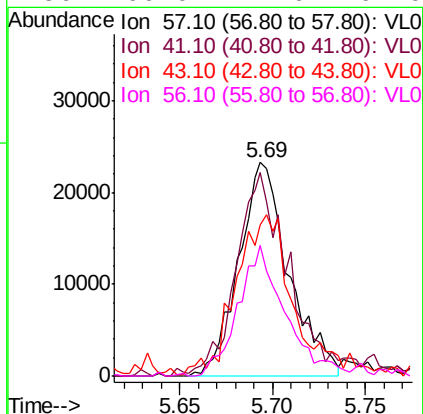
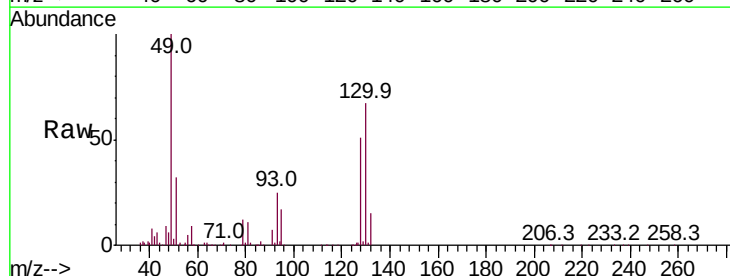
#25
Ethyl Acetate
Concen: 0.035 ppbv
RT: 5.69 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 28 Sep 2021 22:33

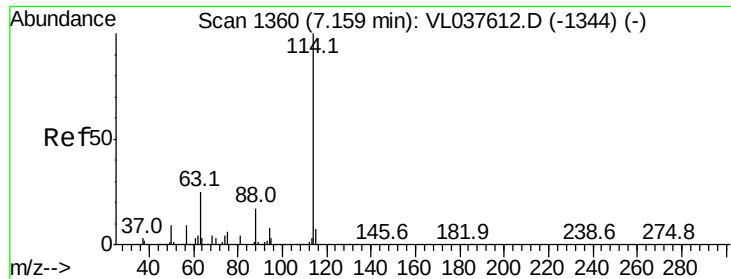
Tot Ion:	43	Resp:	11493
Ion	Ratio	Lower	Upper
43	100		
45	22.1	8.0	12.0#
61	0.0	7.5	11.3#
70	8.1	5.6	8.4



#26
Hexane
Concen: 0.279 ppbv
RT: 5.69 min Scan# 904
Delta R.T.: 0.02 min
Lab File: VL037714.D
Acq: 28 Sep 2021 22:33

Tgt Ion:	57	Resp:	43740
Ion	Ratio	Lower	Upper
57	100		
41	108.9	70.9	106.3#
43	85.7	170.4	255.6#
56	60.0	42.6	64.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 Instrument: MSVOA_1

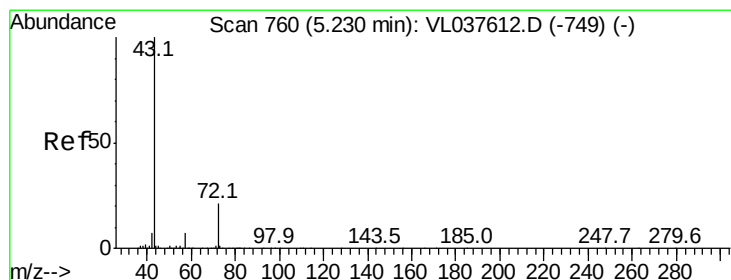
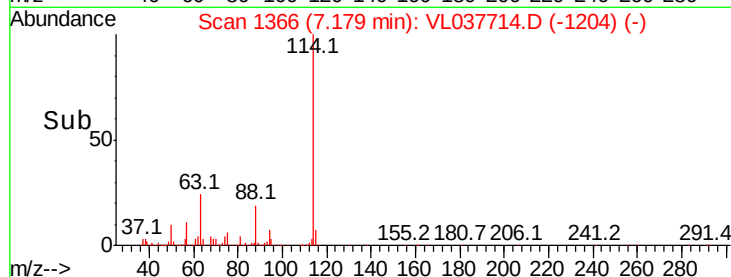
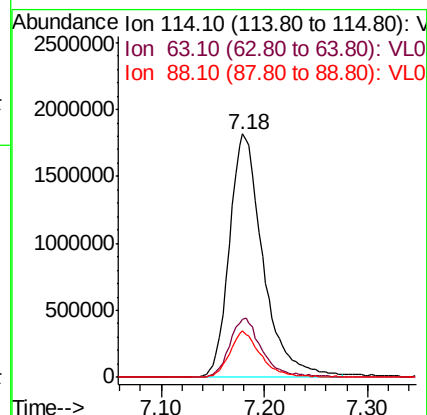
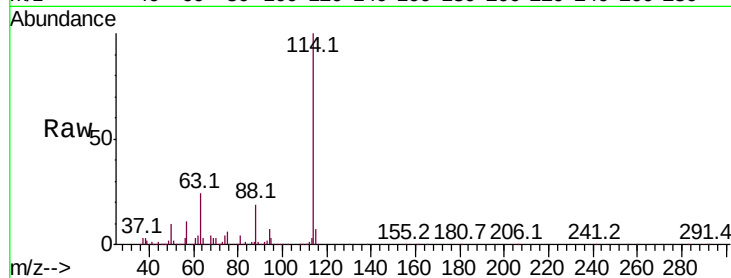
Delta R.T. ClientSampleId:

Lab File:

Acq: 28 Sep 2021 22:33

Tot Ion:114 Resp: 4127107

Ion	Ratio	Lower	Upper
114	100		
63	23.8	19.6	29.4
88	17.8	14.2	21.4



#34

2-Butanone

Concen: 0.246 ppbv

RT: 5.26 min Scan# 769

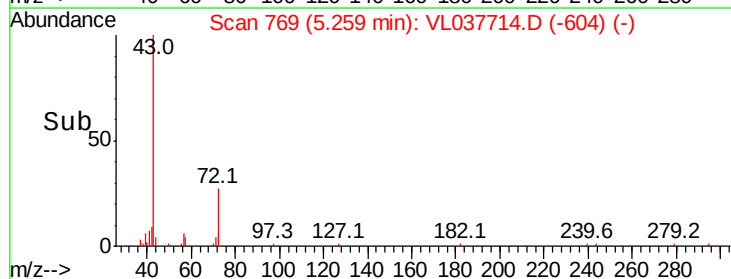
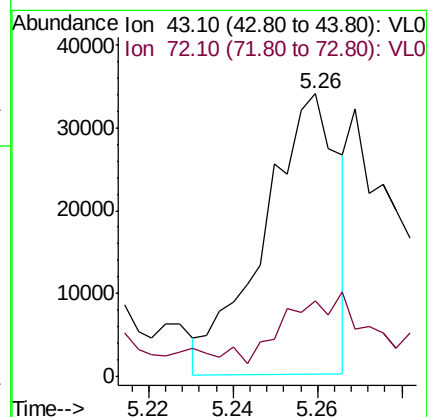
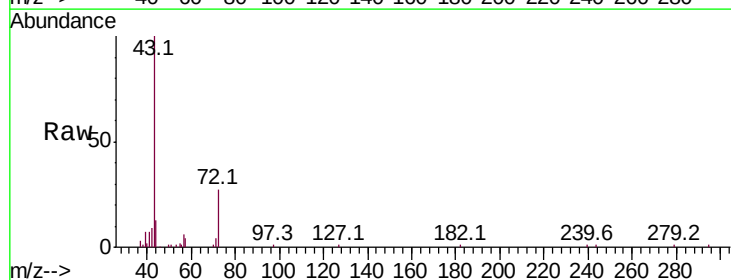
Delta R.T. 0.03 min

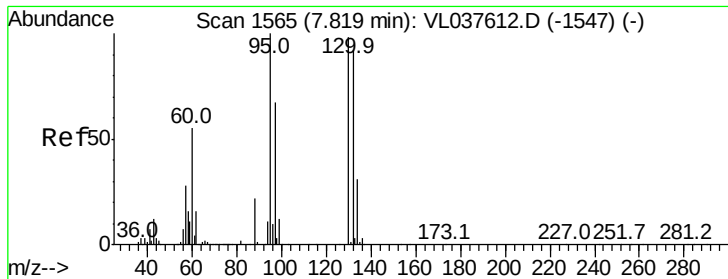
Lab File: VL037714.D

Acq: 28 Sep 2021 22:33

Tgt Ion: 43 Resp: 41189

Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.4	27.6#





#38

Trichloroethene

Concen: 0.187 ppbv

RT: 7.84 Instrument:

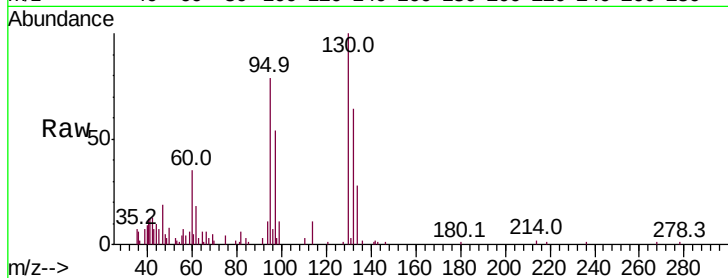
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 28 Sep 2021 22:33

Tot Ion: 130 Resp: 26921

Ion	Ratio	Lower	Upper
130	100		
95	80.6	81.8	122.6#
132	61.8	75.3	112.9#
97	52.4	54.7	82.1#

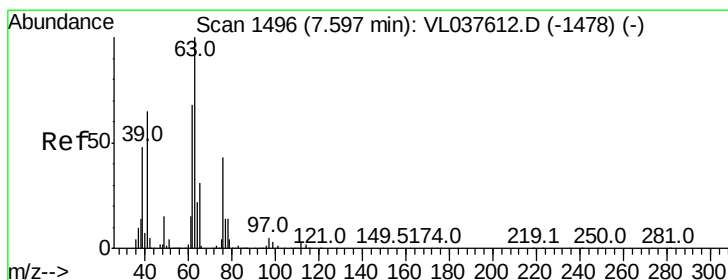
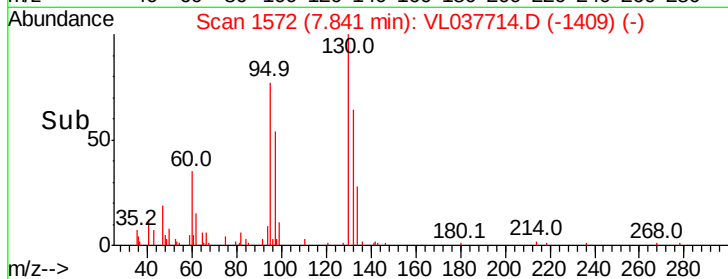
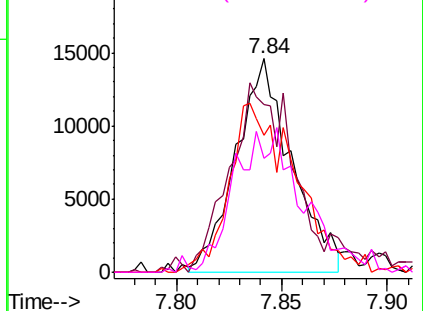


Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.077 ppbv

RT: 7.24 min Scan# 1386

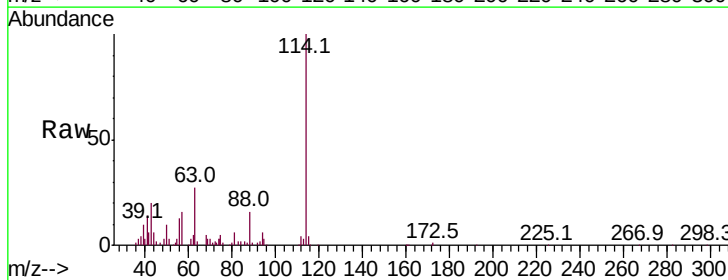
Delta R.T. -0.35 min

Lab File: VL037714.D

Acq: 28 Sep 2021 22:33

Tgt Ion: 63 Resp: 10180

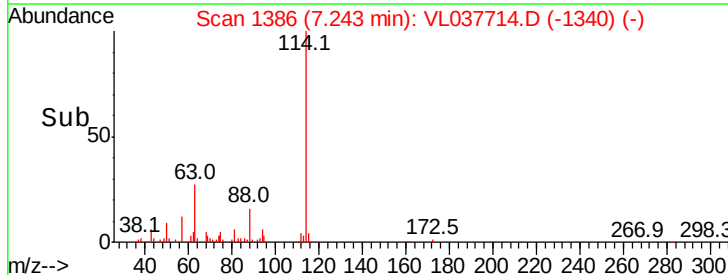
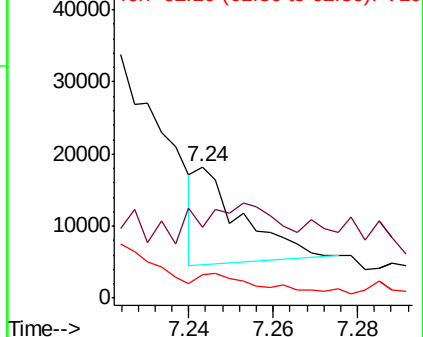
Ion	Ratio	Lower	Upper
63	100		
41	7.4	51.6	77.4#
62	18.3	54.6	81.8#

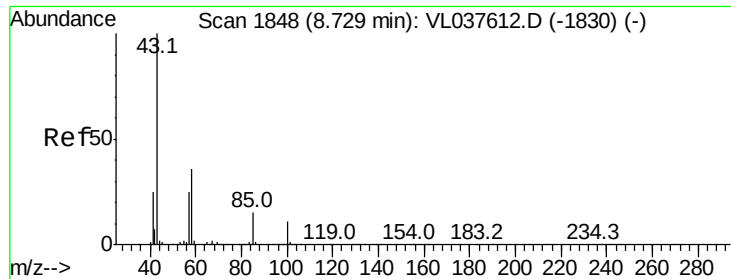


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

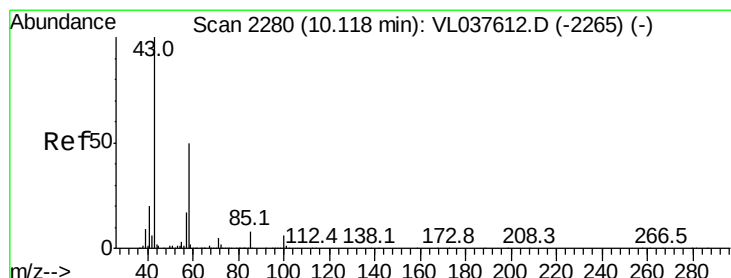
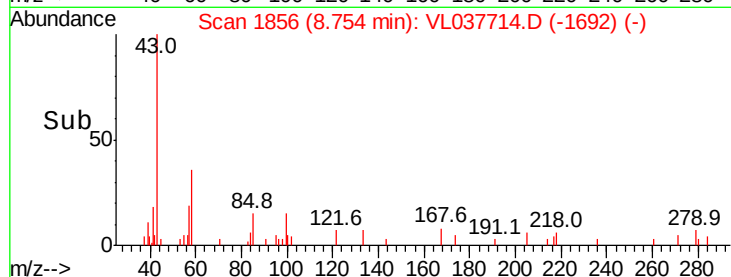
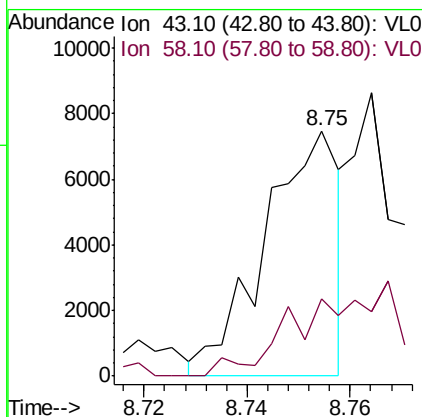
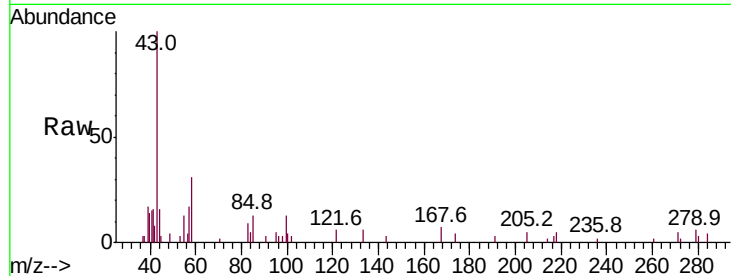
Ion 62.10 (61.80 to 62.80): VL0





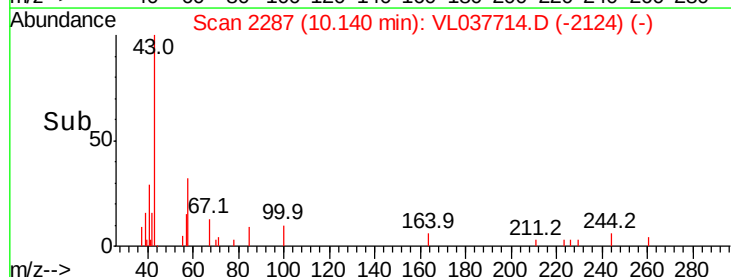
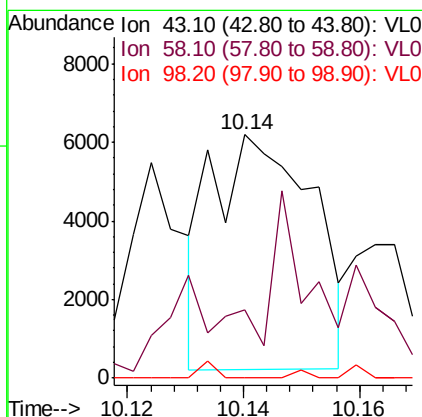
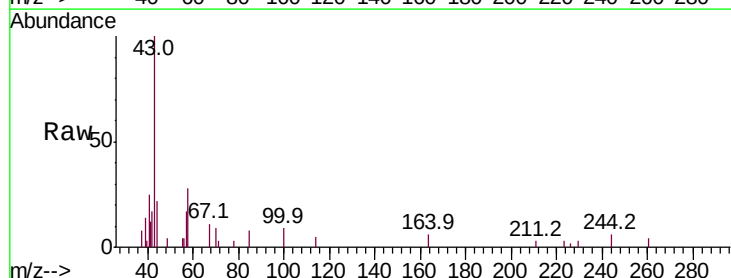
#50
 4-Methyl-2-Pentanone
 Concen: 0.035 ppbv
 RT: 8.75 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Sep 2021 22:33

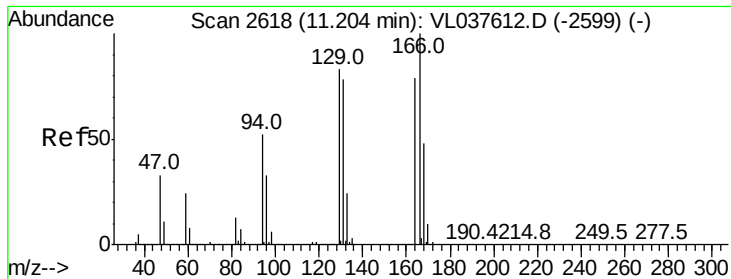
Tot Ion: 43 Resp: 7489
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.4 44.2#



#51
 2-Hexanone
 Concen: 0.077 ppbv
 RT: 10.14 min Scan# 2287
 Delta R.T. 0.02 min
 Lab File: VL037714.D
 Acq: 28 Sep 2021 22:33

Tgt Ion: 43 Resp: 7204
 Ion Ratio Lower Upper
 43 100
 58 91.9 39.3 58.9#
 98 0.0 0.4 0.6#





#52

Tetrachloroethene

Concen: 0.360 ppbv

RT: 11.22

Delta R.T. MSVOA_L

Lab File:

Acq: 28 Sep 2021 22:33

Tot Ion: 164 Resp: 47536

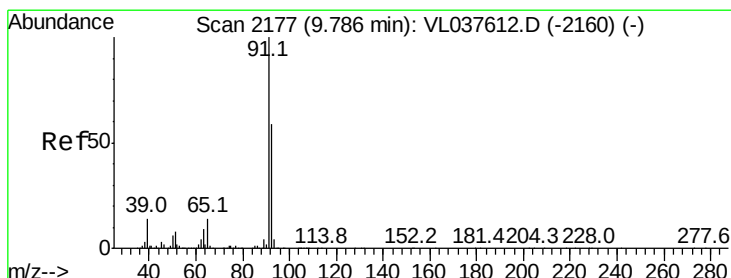
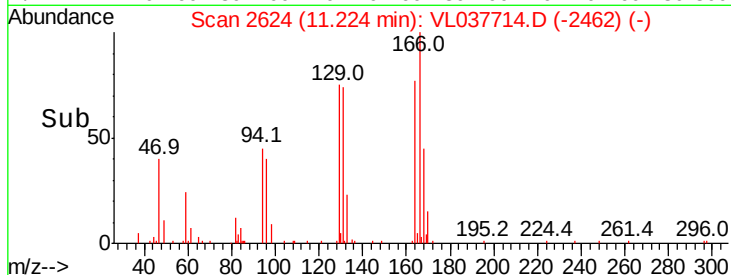
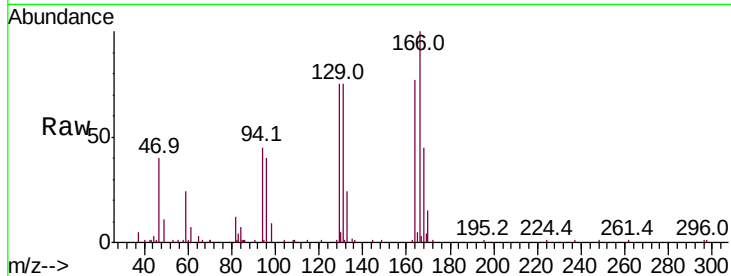
Ion Ratio Lower Upper

164 100

166 124.5 101.2 151.8

129 89.7 84.0 126.0

131 97.1 78.8 118.2



#53

Toluene

Concen: 0.041 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.02 min

Lab File: VL037714.D

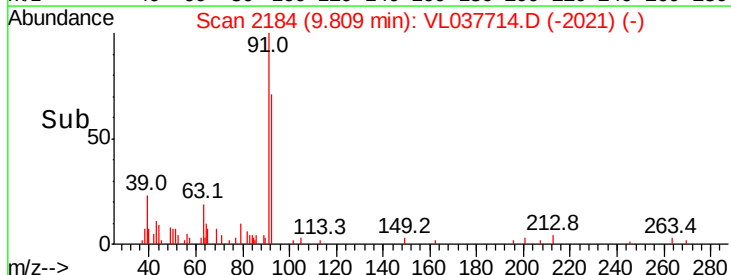
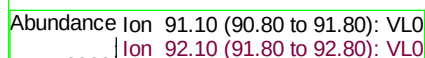
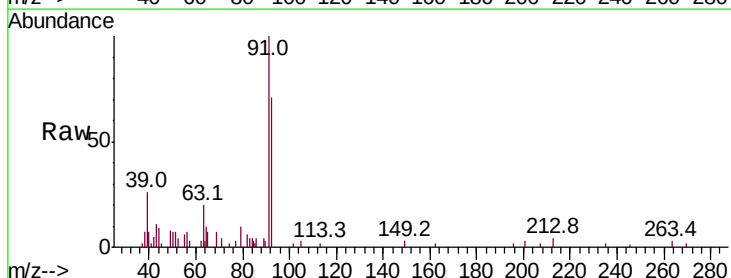
Acq: 28 Sep 2021 22:33

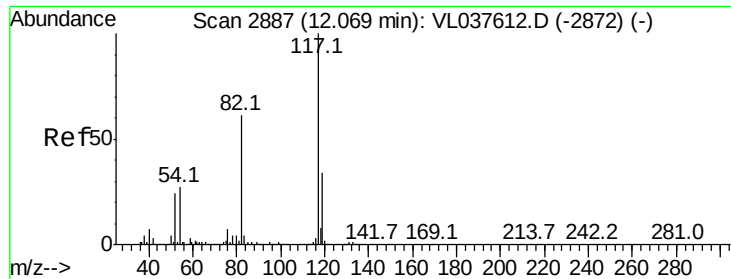
Tgt Ion: 91 Resp: 15554

Ion Ratio Lower Upper

91 100

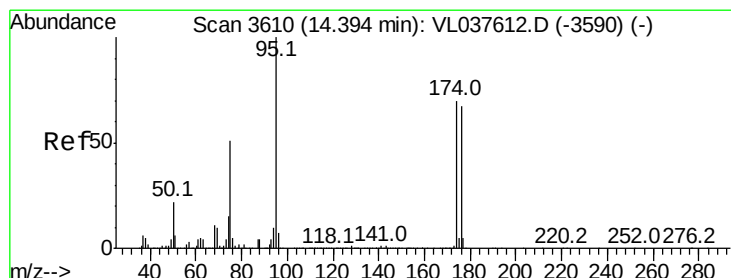
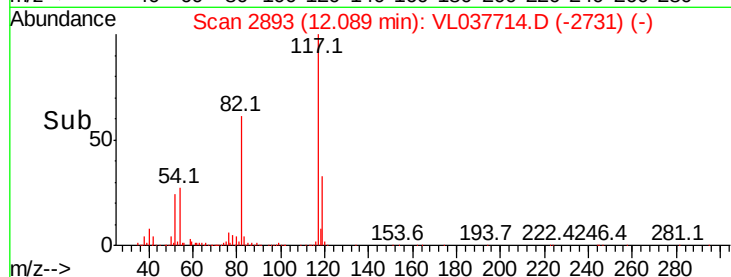
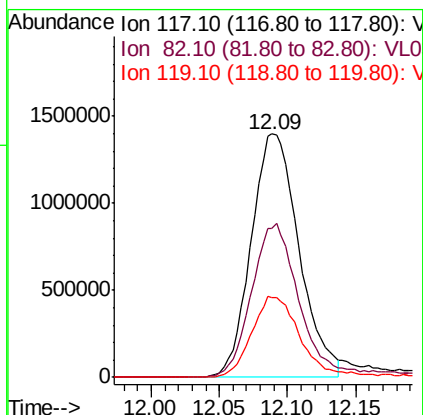
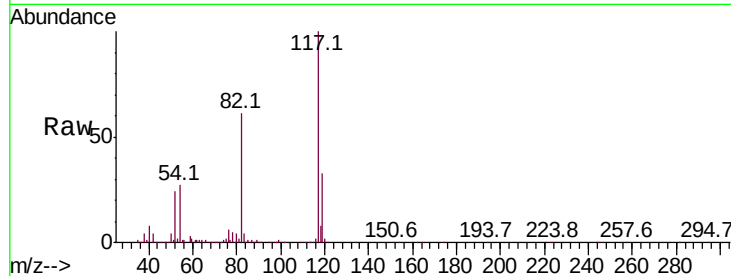
92 105.9 48.9 73.3#





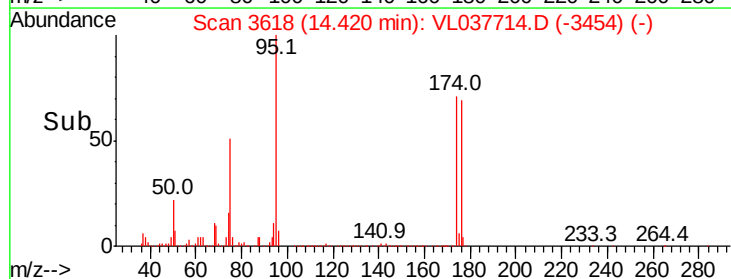
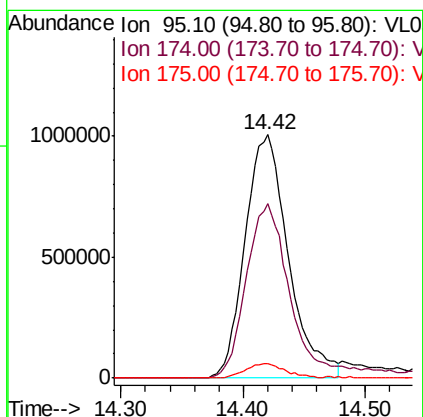
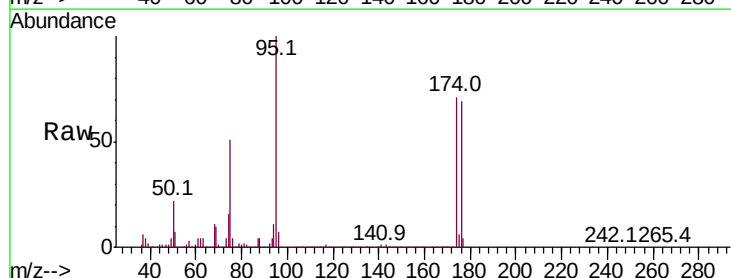
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 28 Sep 2021 22:33

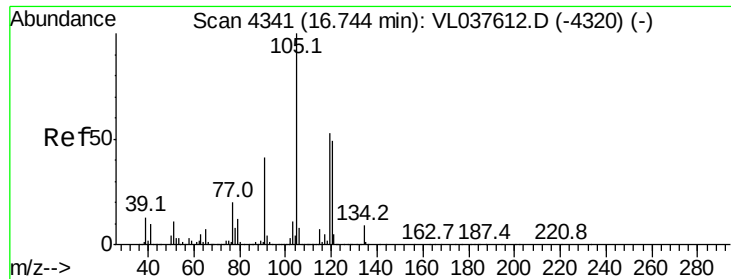
Tot Ion: 117 Resp: 3403187
Ion Ratio Lower Upper
117 100
82 66.2 50.6 75.8
119 35.6 26.2 39.2



#68
1-Bromo-4-Fluorobenzene
Concen: 10.062 ppbv
RT: 14.42 min Scan# 3618
Delta R.T.: 0.03 min
Lab File: VL037714.D
Acq: 28 Sep 2021 22:33

Tgt Ion: 95 Resp: 2474744
Ion Ratio Lower Upper
95 100
174 78.1 56.3 84.5
175 6.1 4.4 6.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.042 ppbv
 RT: 16.77
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Sep 2021 22:33

Tot Ion:	105	Resp:	17641
Ion Ratio	Lower	Upper	
105	100		
120	49.4	39.4	59.0
91	10.0	33.3	49.9#
77	4.7	15.7	23.5#

