

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081921\
 Data File : VL037498.D
 Acq On : 19 Aug 2021 14:34
 Operator : SY/AP
 Sample : M3480-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 20 00:19:52 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1398813	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4124625	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3637001	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2639452	10.22	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

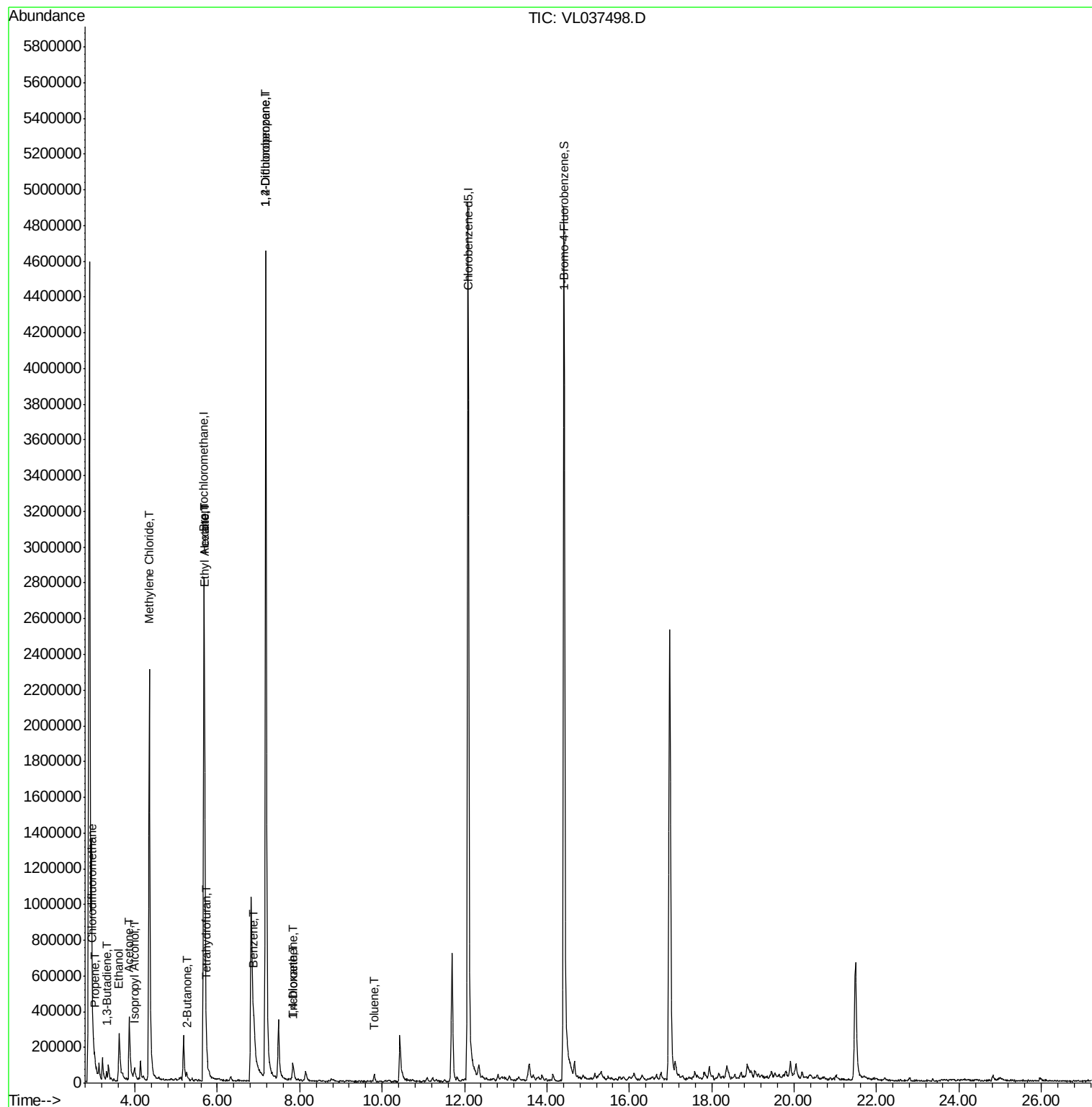
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	185650	0.693	ppbv #	73
9) Propene	3.02	41	18050	0.188	ppbv #	61
13) Ethanol	3.62	45	366321	39.280	ppbv	88
15) Acetone	3.86	43	465734	3.272	ppbv #	82
16) 1,3-Butadiene	3.32	39	12758	0.140	ppbv #	17
19) Isopropyl Alcohol	3.98	45	33366	0.409	ppbv #	42
20) Methylene Chloride	4.35	84	1020919	14.323	ppbv	96
25) Ethyl Acetate	5.69	43	374897	1.037	ppbv #	78
26) Hexane	5.69	57	536421	3.036	ppbv #	46
34) 2-Butanone	5.25	43	17542	0.104	ppbv #	54
36) Benzene	6.89	78	49091	0.142	ppbv	93
38) Trichloroethene	7.84	130	11967	0.084	ppbv #	70
39) 1,2-Dichloropropane	7.18	63	963079	7.228	ppbv #	27
40) 1,4-Dioxane	7.85	88	2789	0.085	ppbv #	100
41) Tetrahydrofuran	5.74	42	3553	0.044	ppbv #	41
53) Toluene	9.81	91	24022	0.061	ppbv	85

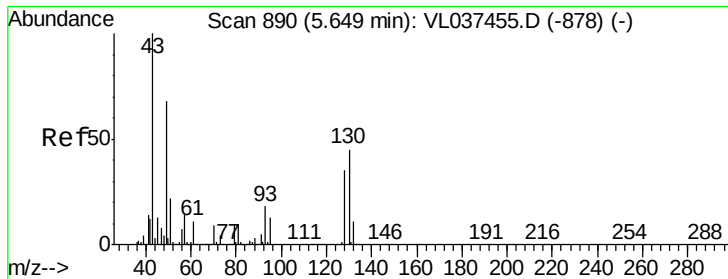
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.02 min

Lab File: VL037498.D

Acq: 19 Aug 2021 14:34

Instrument :

MSVOA_L

ClientSampleId :

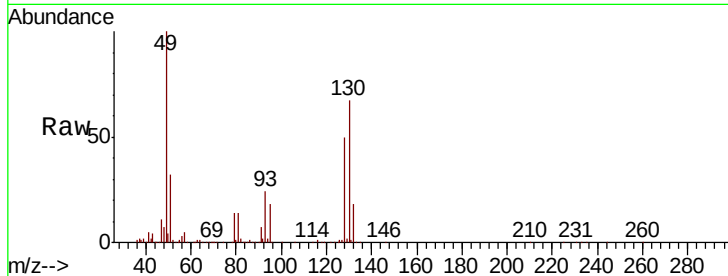
Tot Ion: 49 Resp: 1398813

Ion Ratio Lower Upper

49 100

128 55.5 27.5 82.4

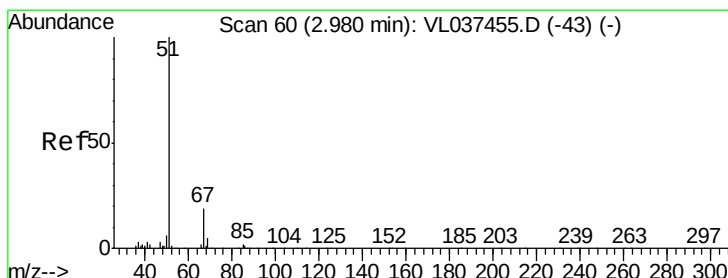
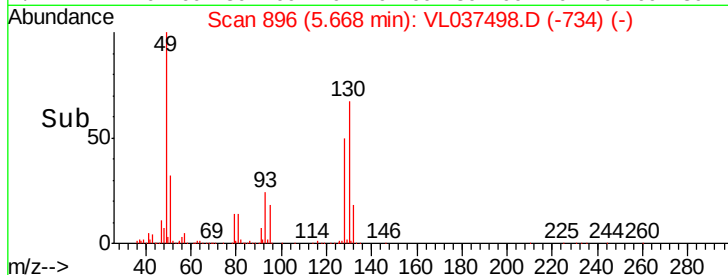
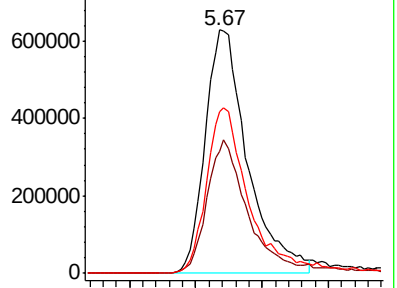
130 71.3 34.0 101.8



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: 0.693 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL037498.D

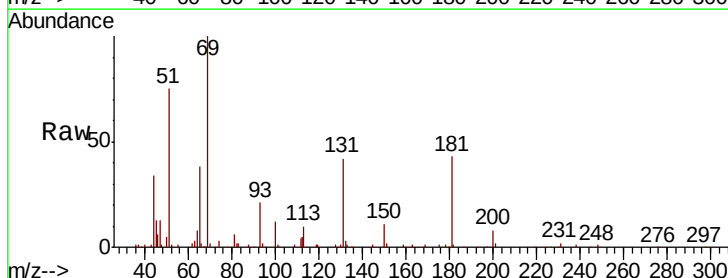
Acq: 19 Aug 2021 14:34

Tgt Ion: 51 Resp: 185650

Ion Ratio Lower Upper

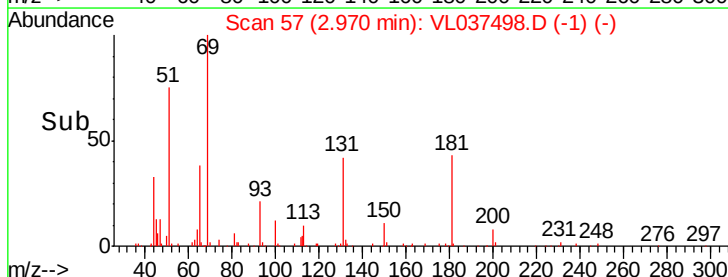
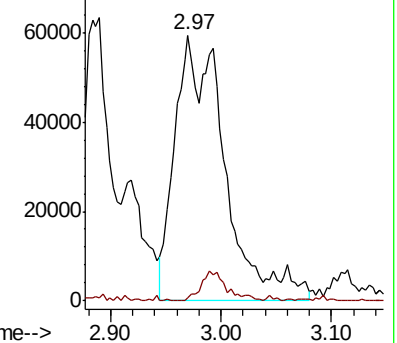
51 100

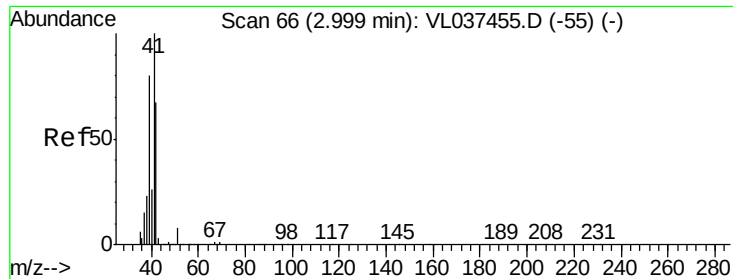
67 5.9 14.2 21.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.188 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.02 min

Lab File: VL037498.D

Acq: 19 Aug 2021 14:34

Instrument :

MSVOA_L

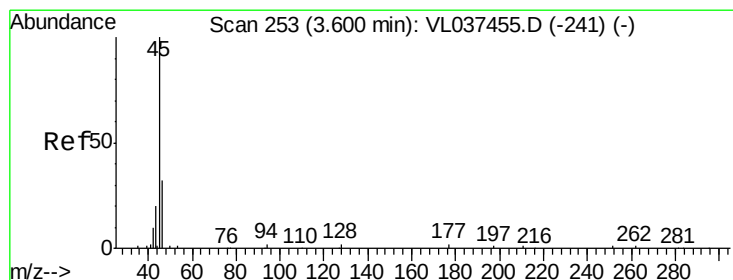
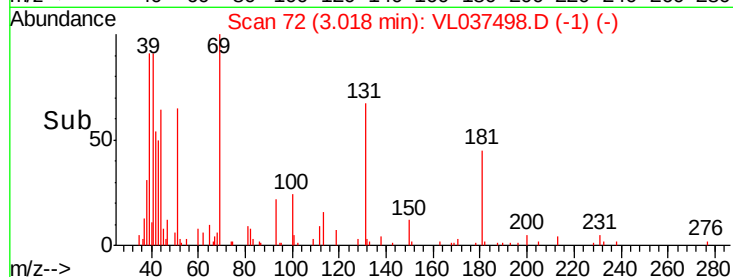
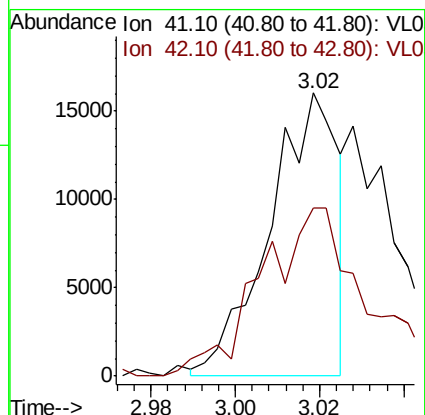
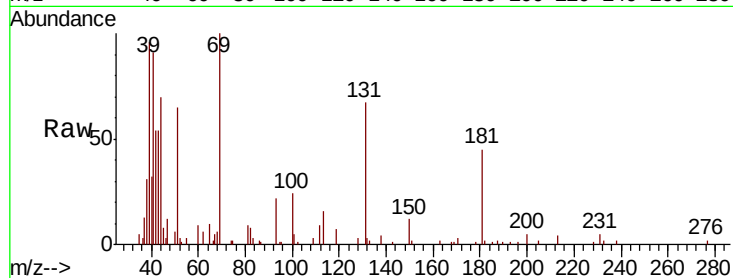
ClientSampleId :

Tot Ion: 41 Resp: 18050

Ion Ratio Lower Upper

41 100

42 98.8 53.7 80.5#



#13

Ethanol

Concen: 39.280 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.02 min

Lab File: VL037498.D

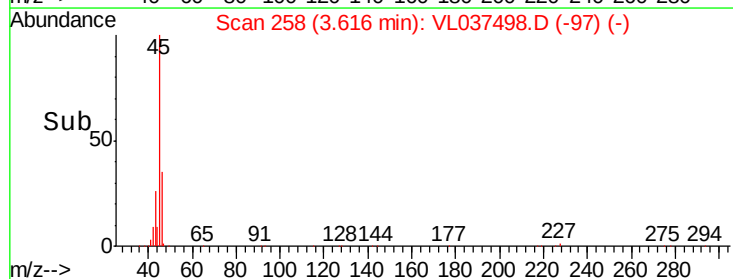
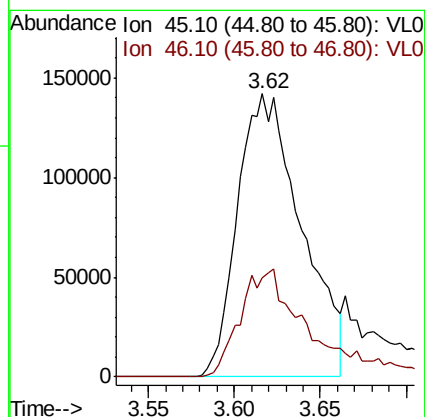
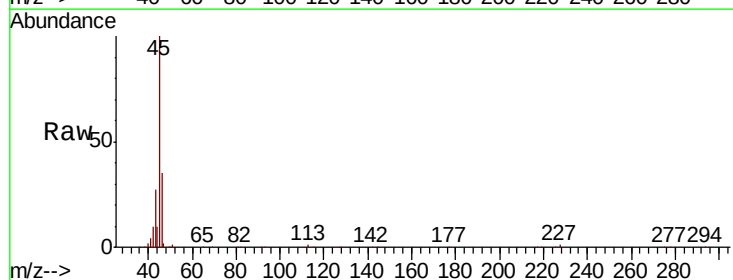
Acq: 19 Aug 2021 14:34

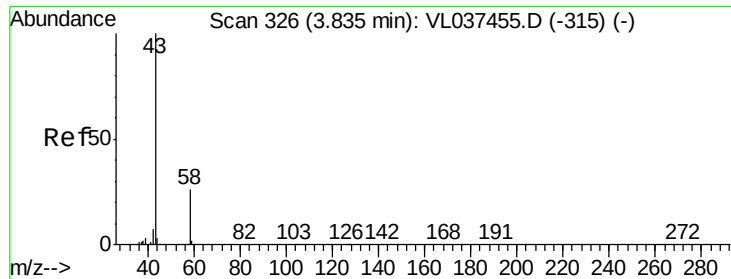
Tgt Ion: 45 Resp: 366321

Ion Ratio Lower Upper

45 100

46 42.3 14.1 56.5

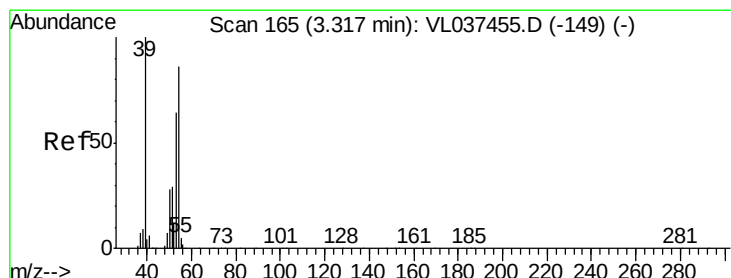
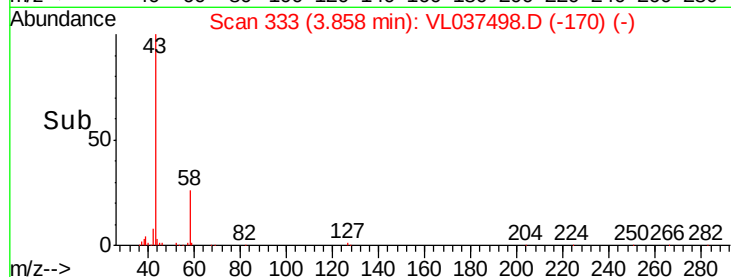
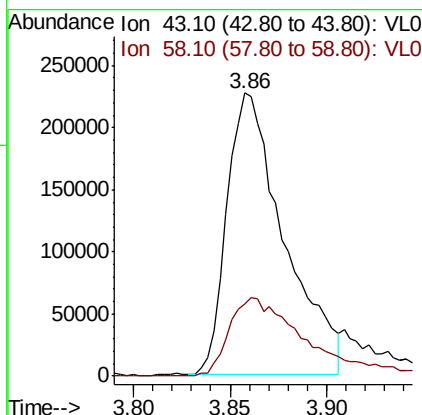
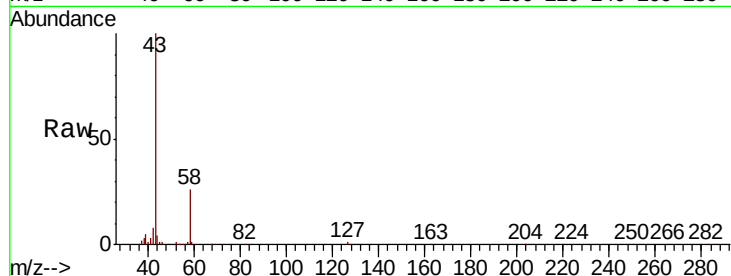




#15
Acetone
Concen: 3.272 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.02 min
Lab File: VL037498.D
Acq: 19 Aug 2021 14:34

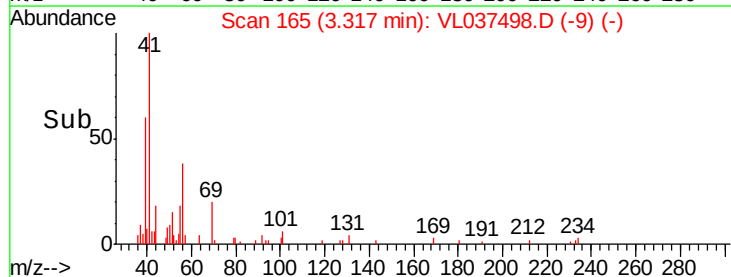
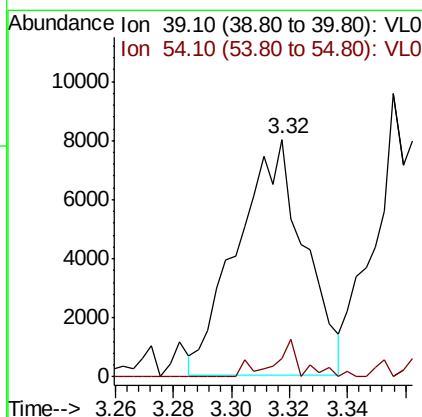
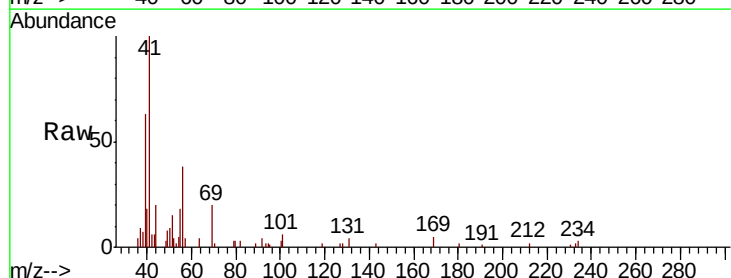
Instrument :
MSVOA_L
ClientSampleId :

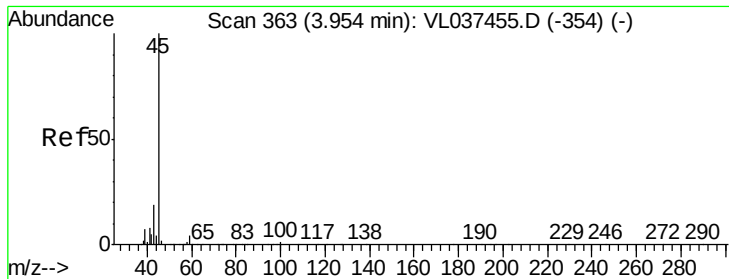
Tot Ion: 43 Resp: 465734
Ion Ratio Lower Upper
43 100
58 40.9 24.8 37.2#



#16
1,3-Butadiene
Concen: 0.140 ppbv
RT: 3.32 min Scan# 165
Delta R.T. -0.00 min
Lab File: VL037498.D
Acq: 19 Aug 2021 14:34

Tgt Ion: 39 Resp: 12758
Ion Ratio Lower Upper
39 100
54 6.6 63.7 95.5#



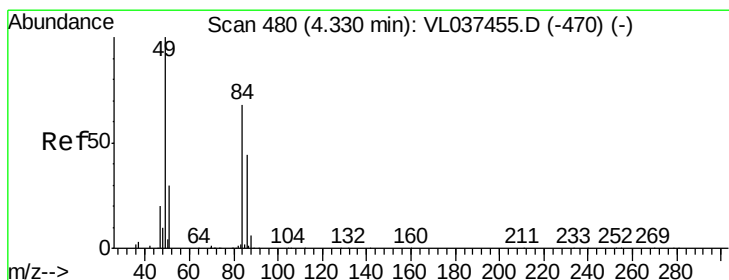
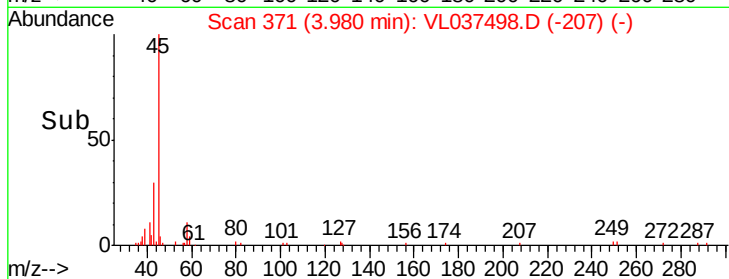
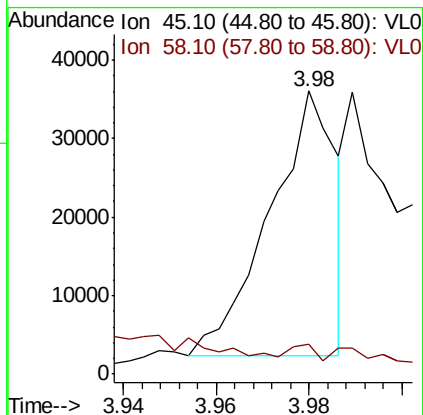
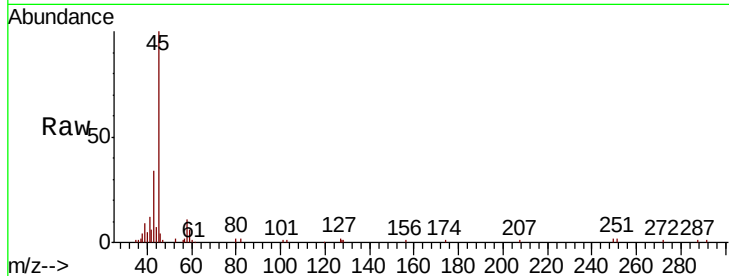


#19

Isopropyl Alcohol
 Concen: 0.409 ppbv
 RT: 3.98 min Scan# 371
 Delta R.T. 0.03 min
 Lab File: VL037498.D
 Acq: 19 Aug 2021 14:34

Instrument :
 MSVOA_L
 ClientSampleId :

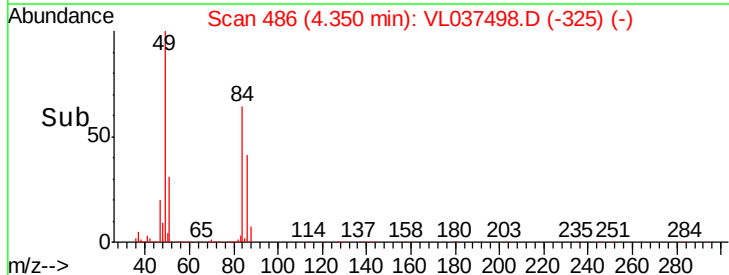
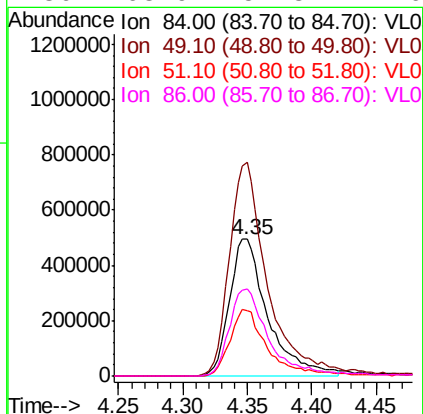
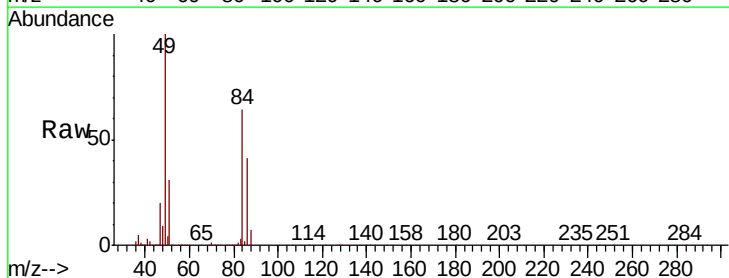
Tot Ion: 45 Resp: 33366
 Ion Ratio Lower Upper
 45 100
 58 22.6 1.4 2.2#

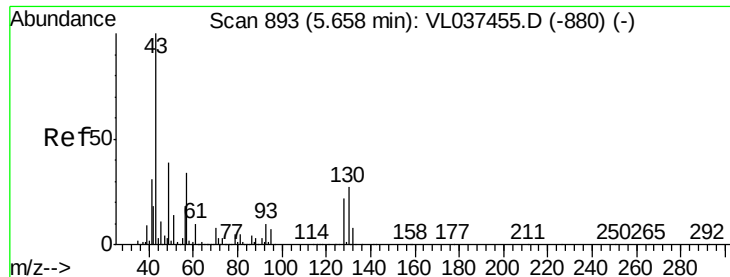


#20

Methylene Chloride
 Concen: 14.323 ppbv
 RT: 4.35 min Scan# 486
 Delta R.T. 0.02 min
 Lab File: VL037498.D
 Acq: 19 Aug 2021 14:34

Tgt Ion: 84 Resp: 1020919
 Ion Ratio Lower Upper
 84 100
 49 155.8 118.2 177.2
 51 47.8 36.6 55.0
 86 63.9 51.8 77.6

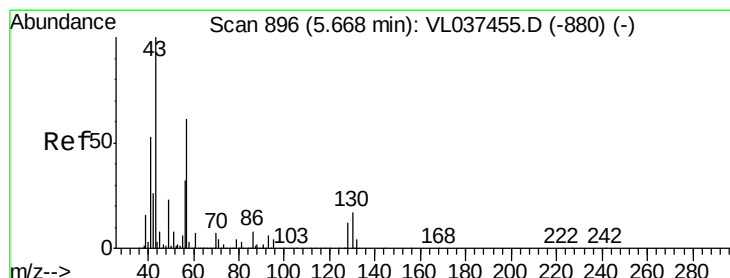
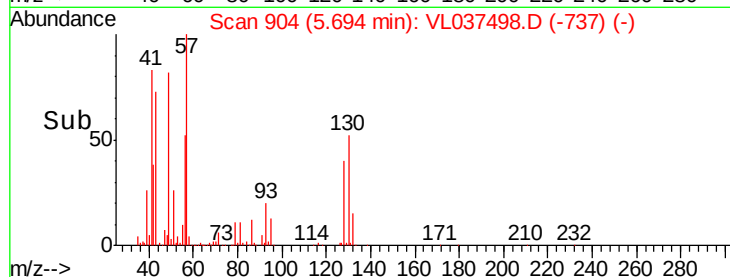
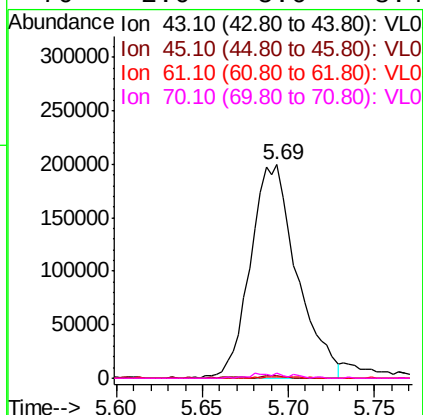
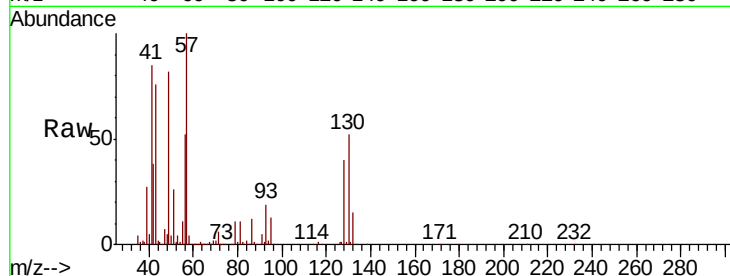




#25
Ethyl Acetate
Concen: 1.037 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.04 min
Lab File: VL037498.D
Acq: 19 Aug 2021 14:34

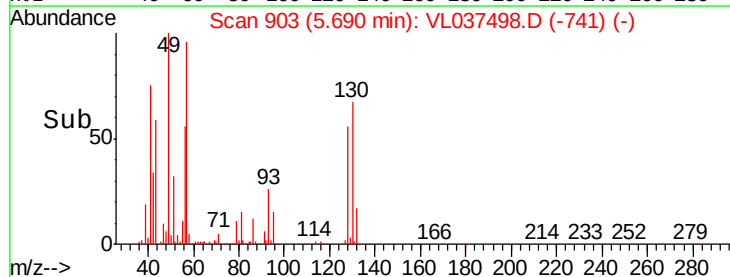
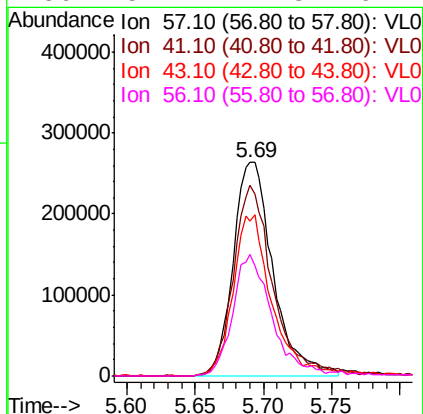
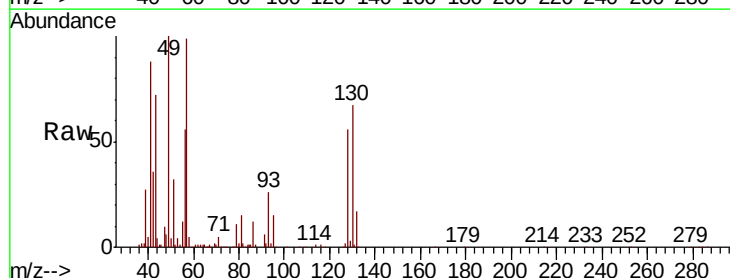
Instrument :
MSVOA_L
ClientSampled :

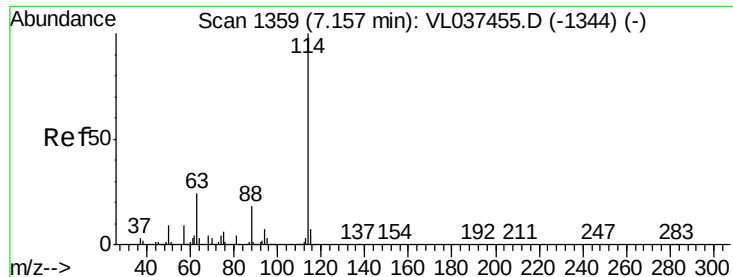
Tot Ion:	43	Resp:	374897
Ion	Ratio	Lower	Upper
43	100		
45	1.2	8.0	12.0#
61	0.8	8.0	12.0#
70	2.0	5.6	8.4#



#26
Hexane
Concen: 3.036 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.02 min
Lab File: VL037498.D
Acq: 19 Aug 2021 14:34

Tgt Ion:	57	Resp:	536421
Ion	Ratio	Lower	Upper
57	100		
41	90.0	72.3	108.5
43	75.0	172.3	258.5#
56	57.4	42.8	64.2

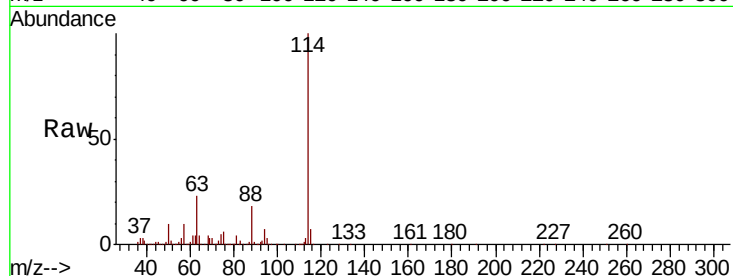




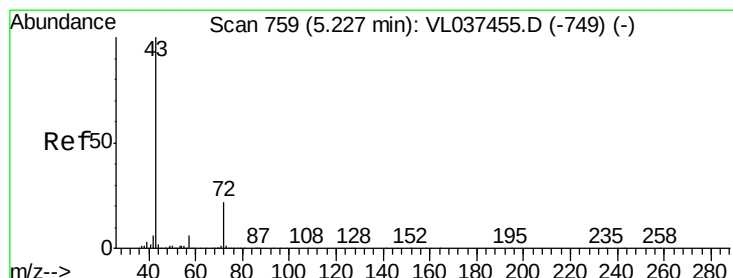
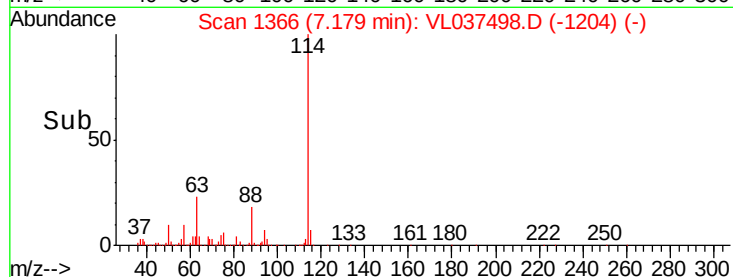
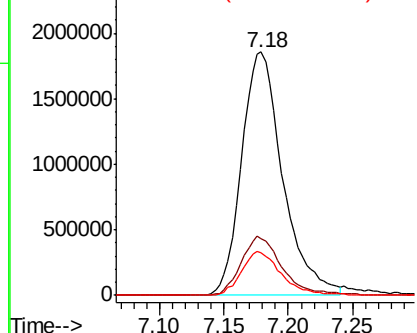
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.02 min
 Lab File: VL037498.D
 Acq: 19 Aug 2021 14:34

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:114 Resp: 4124625
 Ion Ratio Lower Upper
 114 100
 63 24.7 19.3 28.9
 88 17.8 14.2 21.4

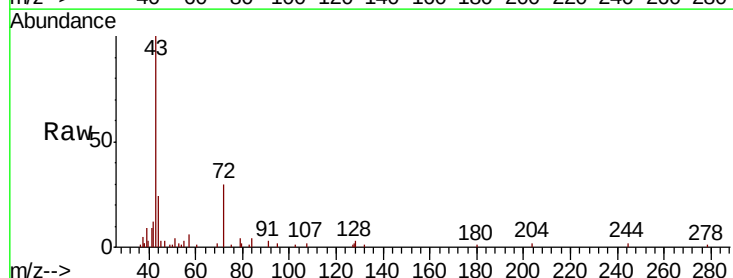


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

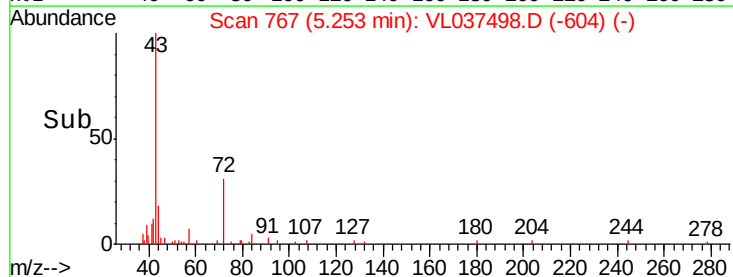
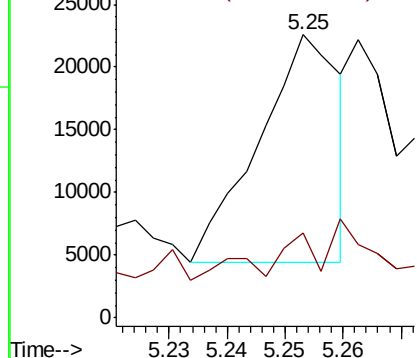


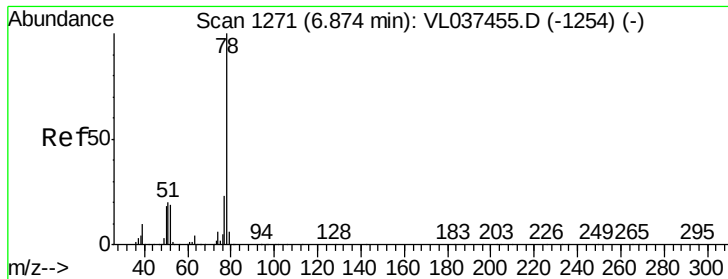
#34
 2-Butanone
 Concen: 0.104 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.03 min
 Lab File: VL037498.D
 Acq: 19 Aug 2021 14:34

Tgt Ion: 43 Resp: 17542
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.4 26.0#



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





#36

Benzene

Concen: 0.142 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. 0.01 min

Lab File: VL037498.D

Acq: 19 Aug 2021 14:34

Instrument :

MSVOA_L

ClientSampleId :

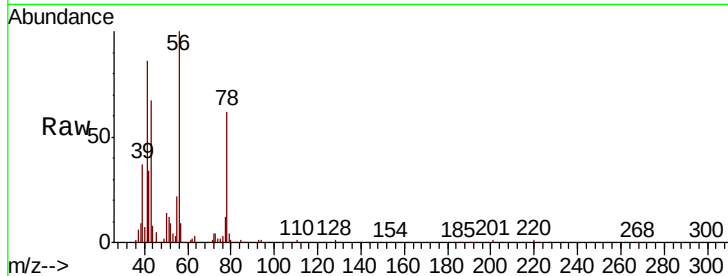
Tot Ion: 78 Resp: 49091

Ion Ratio Lower Upper

78 100

77 18.8 18.2 27.4

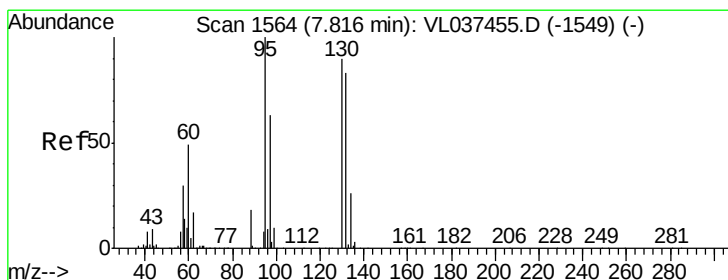
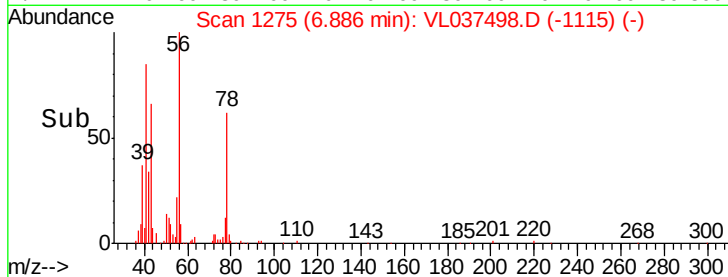
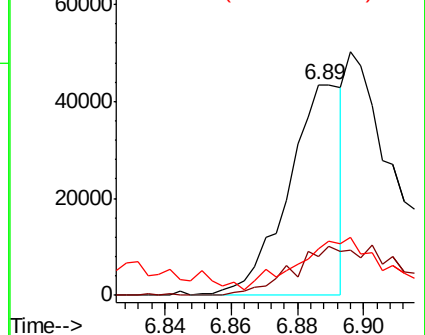
50 15.4 14.6 21.8



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



#38

Trichloroethene

Concen: 0.084 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. 0.03 min

Lab File: VL037498.D

Acq: 19 Aug 2021 14:34

Tgt Ion: 130 Resp: 11967

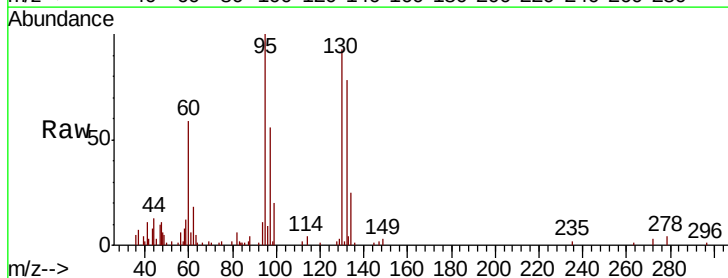
Ion Ratio Lower Upper

130 100

95 79.4 89.2 133.8#

132 57.9 74.0 111.0#

97 53.2 56.6 84.8#

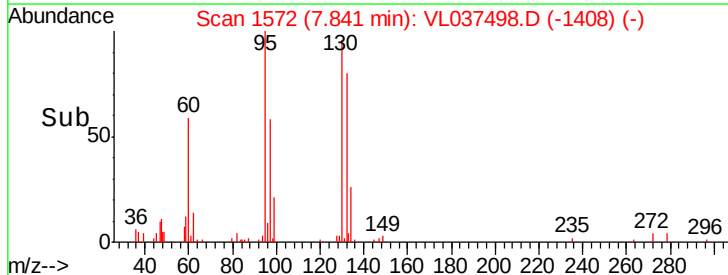
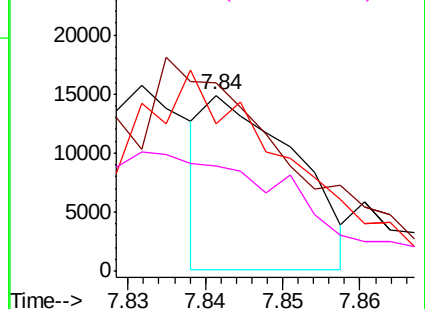


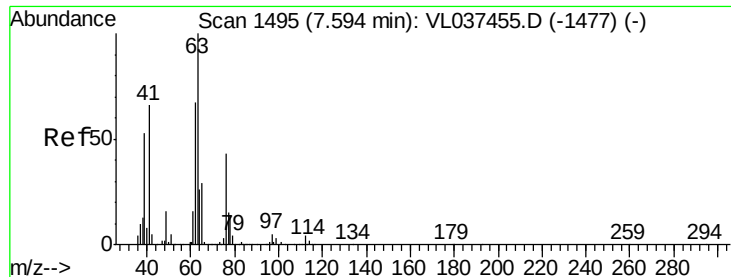
Abundance Ion 130.00 (129.70 to 130.70): V

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

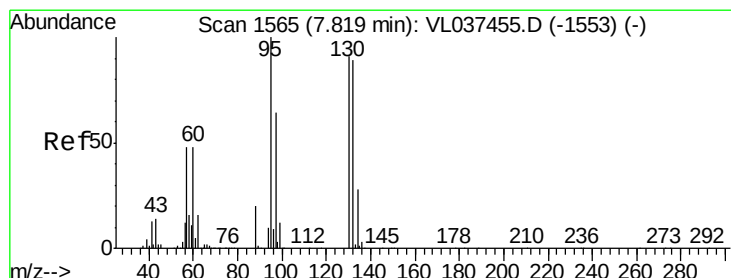
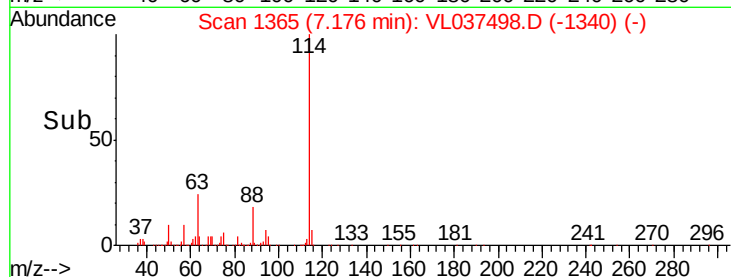
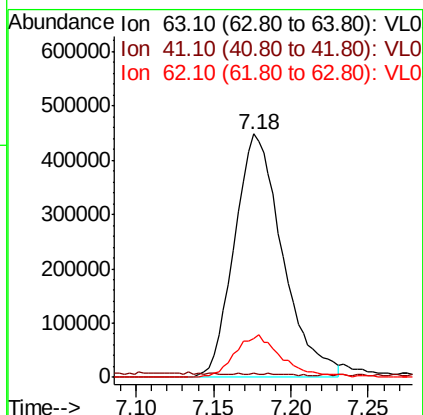
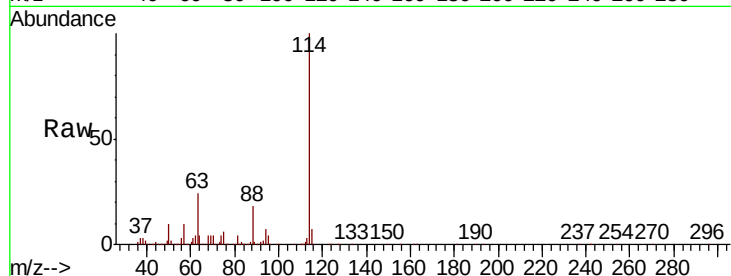




#39
 1,2-Dichloropropane
 Concen: 7.228 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.42 min
 Lab File: VL037498.D
 Acq: 19 Aug 2021 14:34

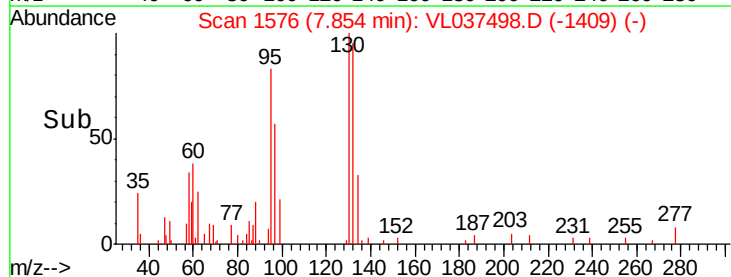
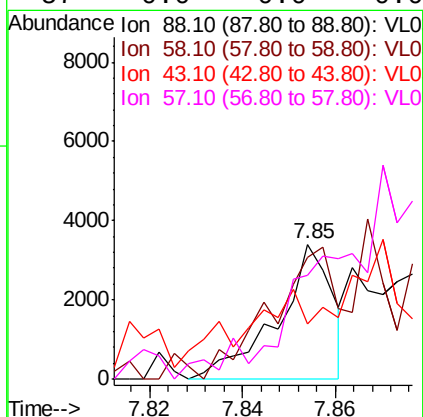
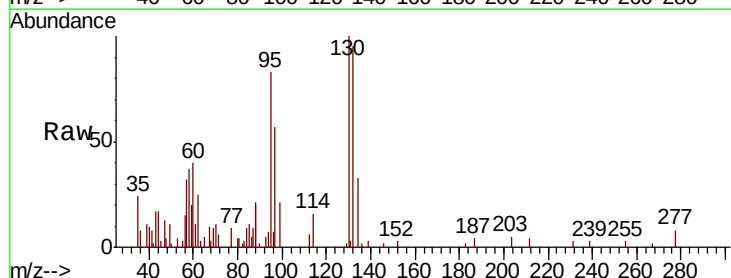
Instrument :
 MSVOA_L
 ClientSampleId :

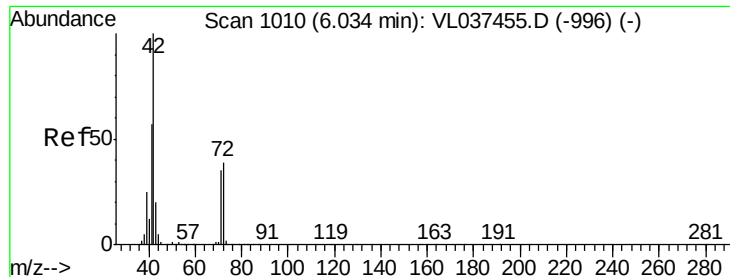
Tot Ion: 63 Resp: 963079
 Ion Ratio Lower Upper
 63 100
 41 0.5 52.4 78.6#
 62 15.8 53.6 80.4#



#40
 1,4-Dioxane
 Concen: 0.085 ppbv
 RT: 7.85 min Scan# 1576
 Delta R.T. 0.04 min
 Lab File: VL037498.D
 Acq: 19 Aug 2021 14:34

Tgt Ion: 88 Resp: 2789
 Ion Ratio Lower Upper
 88 100
 58 0.0 0.0 0.0
 43 0.0 0.0 0.0
 57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.044 ppbv

RT: 5.74 min Scan# 917

Delta R.T. -0.30 min

Lab File: VL037498.D

Acq: 19 Aug 2021 14:34

Instrument :

MSVOA_L

ClientSampleId :

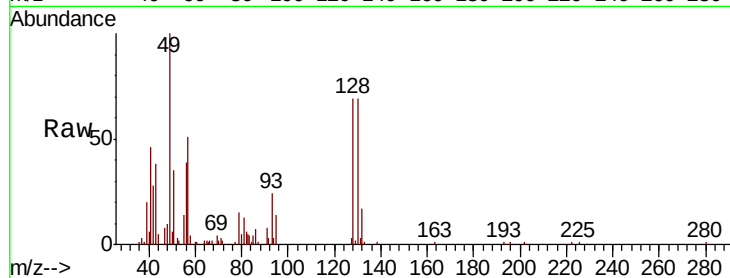
Tot Ion: 42 Resp: 3553

Ion Ratio Lower Upper

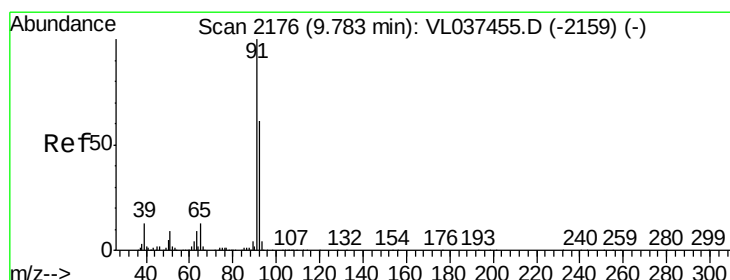
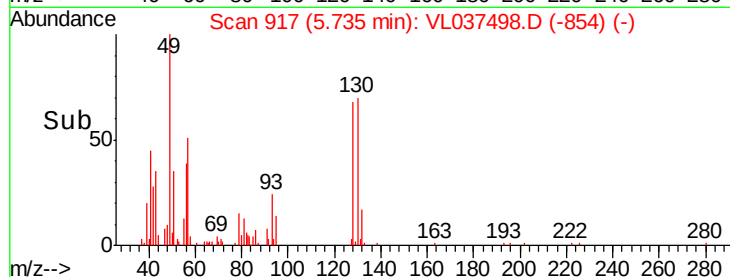
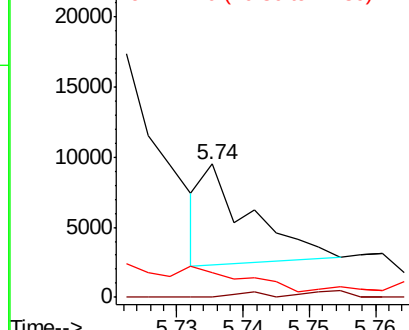
42 100

72 6.0 32.2 48.4#

71 0.0 30.5 45.7#



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



#53

Toluene

Concen: 0.061 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. 0.02 min

Lab File: VL037498.D

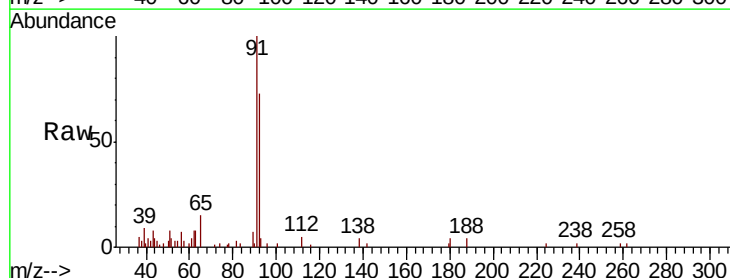
Acq: 19 Aug 2021 14:34

Tgt Ion: 91 Resp: 24022

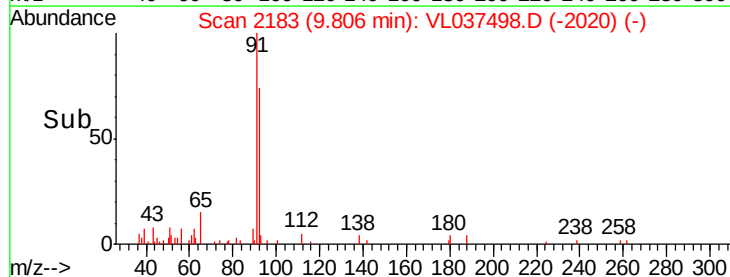
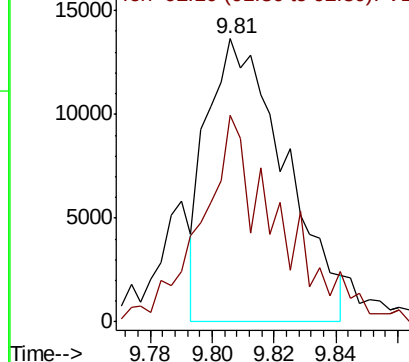
Ion Ratio Lower Upper

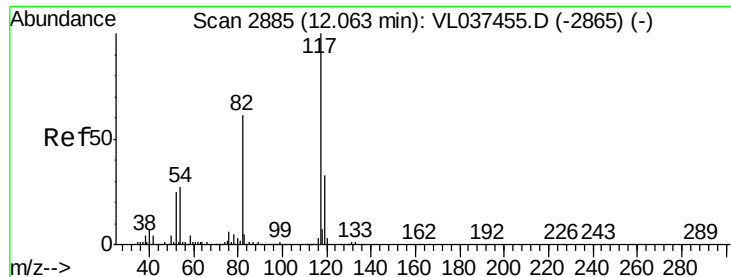
91 100

92 72.7 48.8 73.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

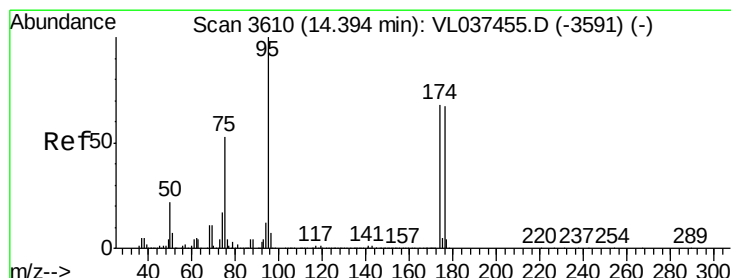
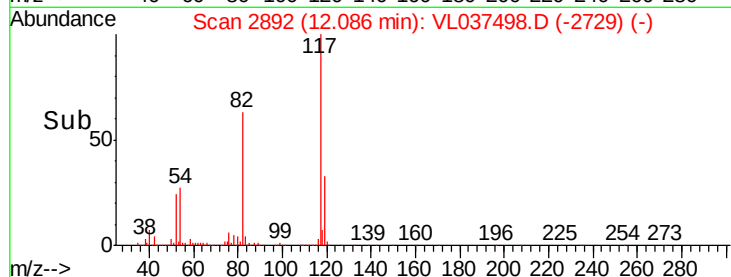
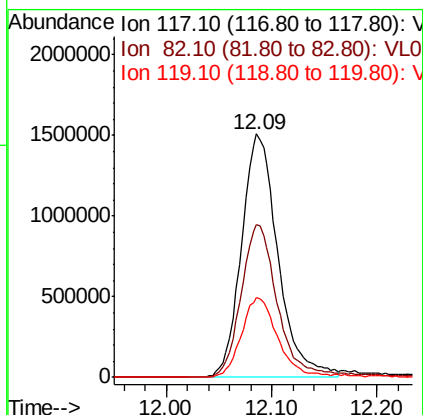
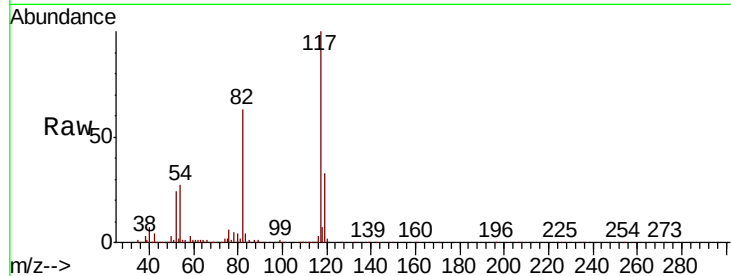




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. 0.02 min
Lab File: VL037498.D
Acq: 19 Aug 2021 14:34

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3637001
Ion Ratio Lower Upper
117 100
82 64.3 52.9 79.3
119 33.1 24.8 37.2



#68
1-Bromo-4-Fluorobenzene
Concen: 10.215 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. 0.02 min
Lab File: VL037498.D
Acq: 19 Aug 2021 14:34

Tgt Ion: 95 Resp: 2639452
Ion Ratio Lower Upper
95 100
174 69.6 59.6 89.4
175 5.5 4.6 7.0

