

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081821\
 Data File : VL037492.D
 Acq On : 18 Aug 2021 15:39
 Operator : SY/AP
 Sample : M2940-15 0.03 LOD
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 19 01:43:02 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	5.66	49	1399902	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4064170	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3434577	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2470232	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

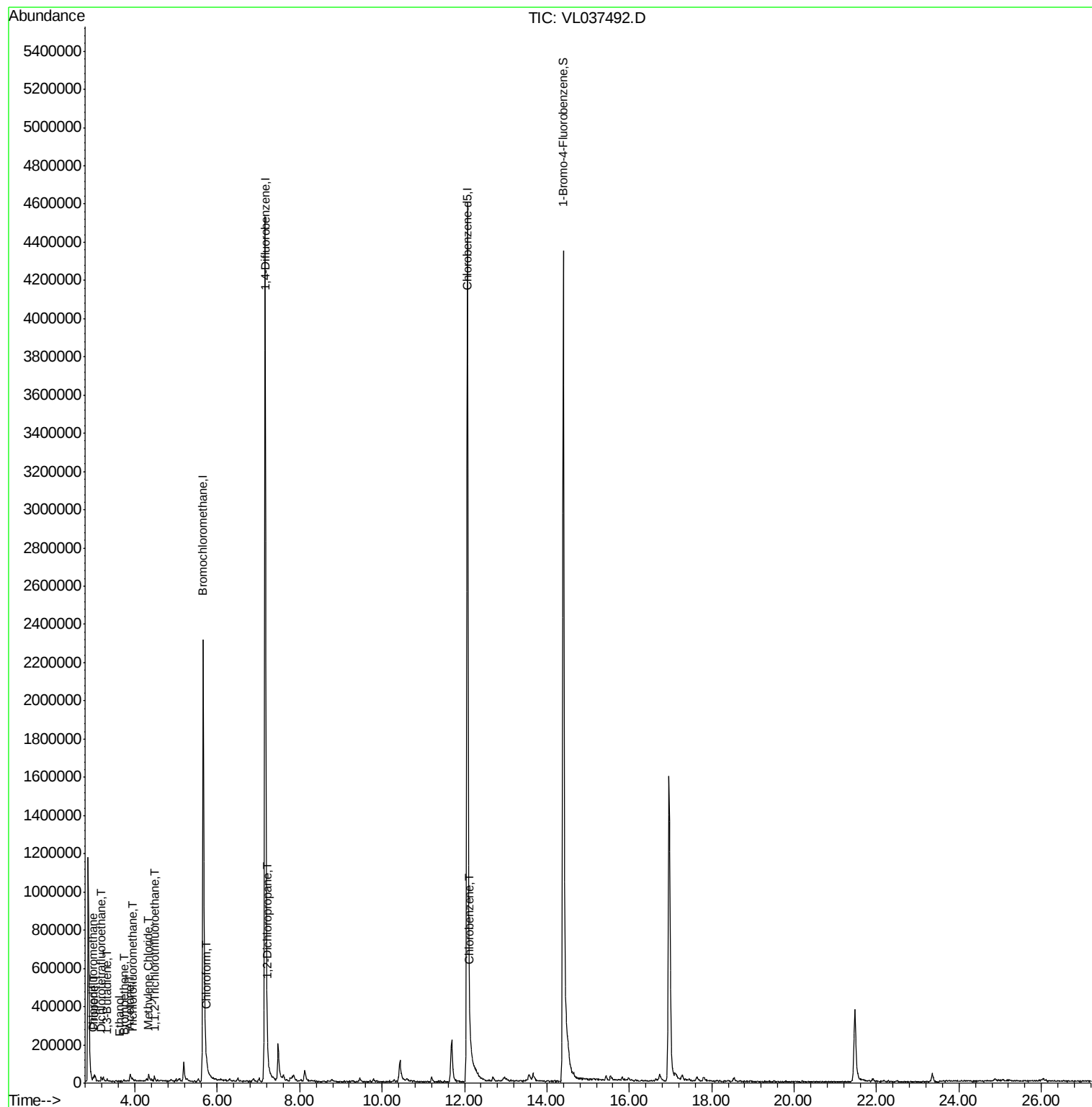
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	14261	0.053	ppbv	95
8) Dichlorotetrafluoroethane	3.18	85	10364	0.045	ppbv	91
9) Propene	3.01	41	3680	0.038	ppbv #	16
11) Trichlorofluoromethane	3.94	101	8561	0.041	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	5118	0.033	ppbv #	43
13) Ethanol	3.61	45	345	0.037	ppbv #	1
14) Bromoethene	3.74	108	2631	0.037	ppbv #	5
15) Acetone	3.88	43	21392	0.150	ppbv #	1
16) 1,3-Butadiene	3.32	39	4379	0.048	ppbv	86
20) Methylene Chloride	4.34	84	4093	0.057	ppbv #	40
29) Chloroform	5.74	83	7921	0.032	ppbv	93
39) 1,2-Dichloropropane	7.22	63	10465	0.080	ppbv #	24
57) Chlorobenzene	12.13	112	10175	0.036	ppbv #	52

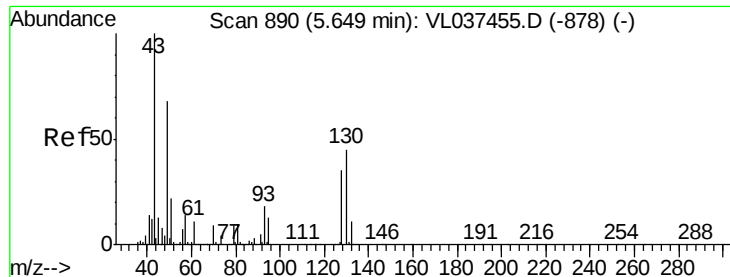
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.01 min

Lab File: VL037492.D

Acq: 18 Aug 2021 15:39

Instrument :

MSVOA_L

ClientSampleId :

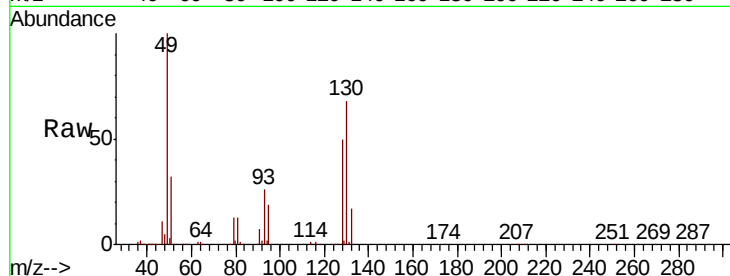
Tot Ion: 49 Resp: 1399902

Ion Ratio Lower Upper

49 100

128 53.9 27.5 82.4

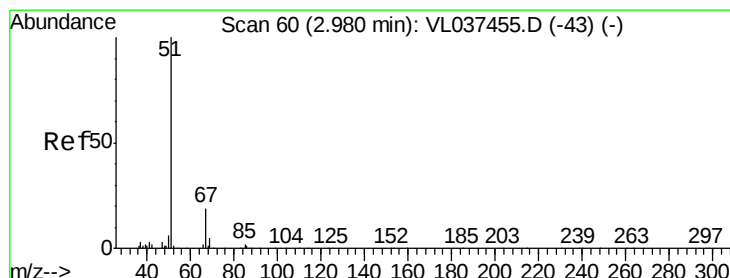
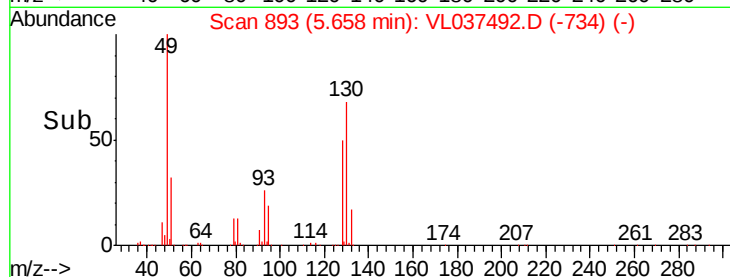
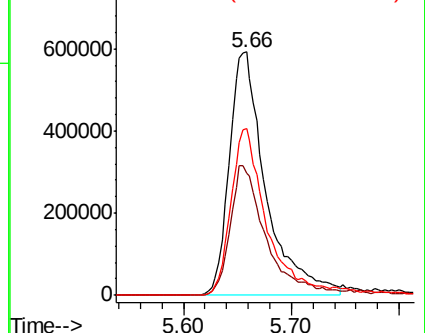
130 70.9 34.0 101.8



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: 0.053 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.01 min

Lab File: VL037492.D

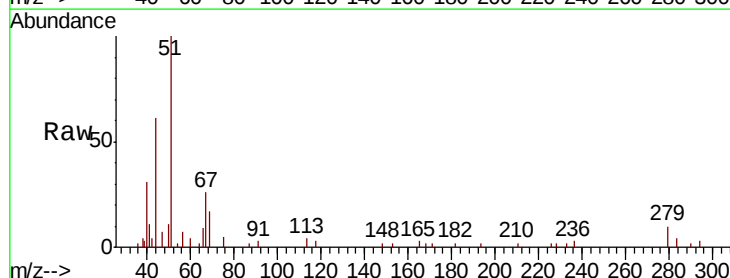
Acq: 18 Aug 2021 15:39

Tgt Ion: 51 Resp: 14261

Ion Ratio Lower Upper

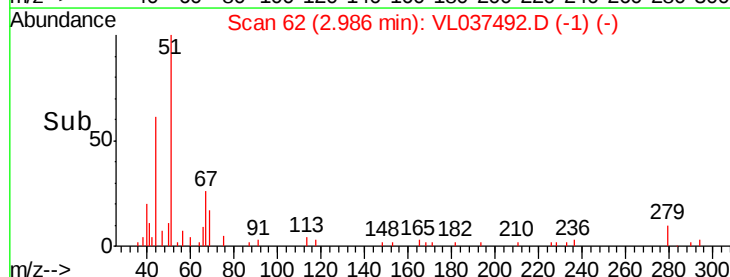
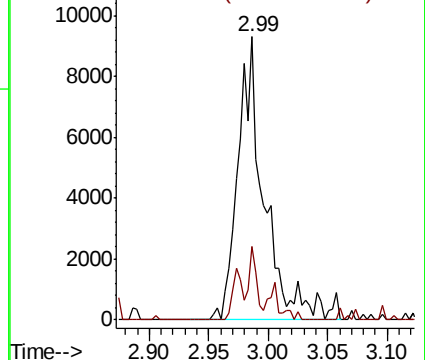
51 100

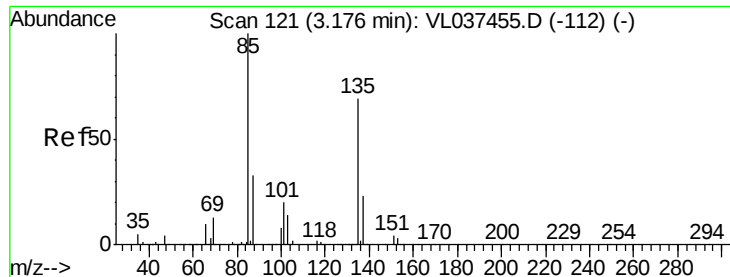
67 19.8 14.2 21.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.045 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.00 min

Lab File: VL037492.D

Acq: 18 Aug 2021 15:39

Instrument :

MSVOA_L

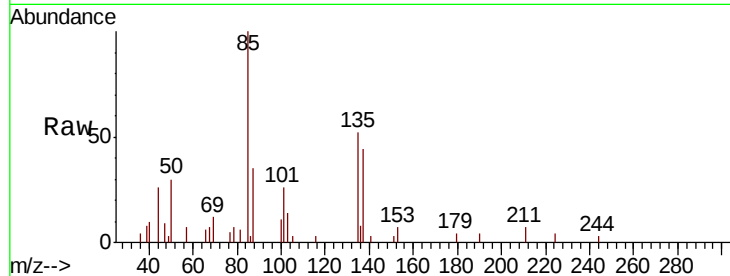
ClientSampled :

Tot Ion: 85 Resp: 10364

Ion Ratio Lower Upper

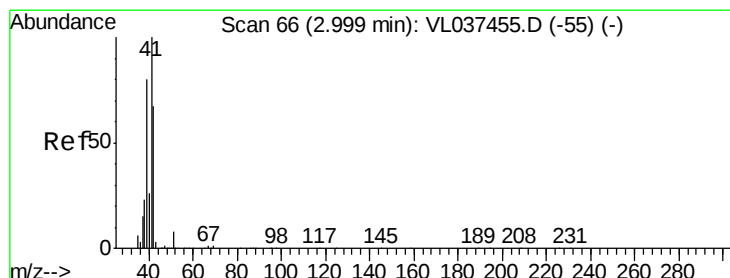
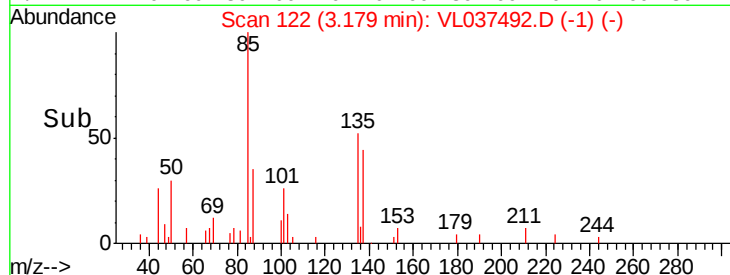
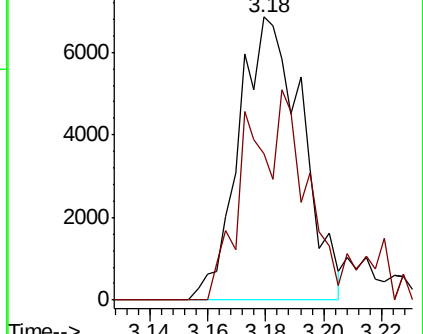
85 100

135 81.3 58.8 88.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 0.038 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.01 min

Lab File: VL037492.D

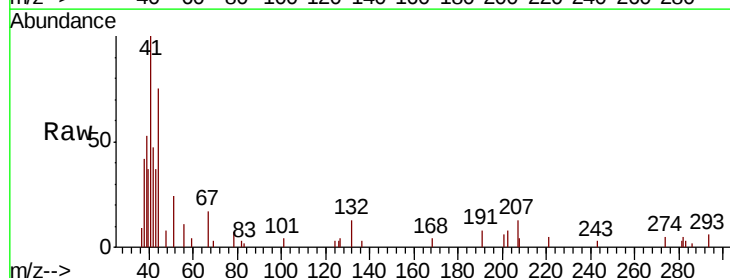
Acq: 18 Aug 2021 15:39

Tgt Ion: 41 Resp: 3680

Ion Ratio Lower Upper

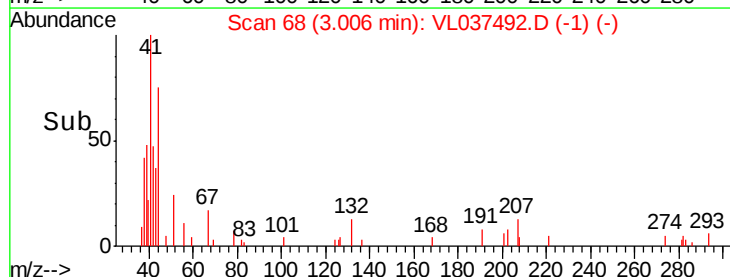
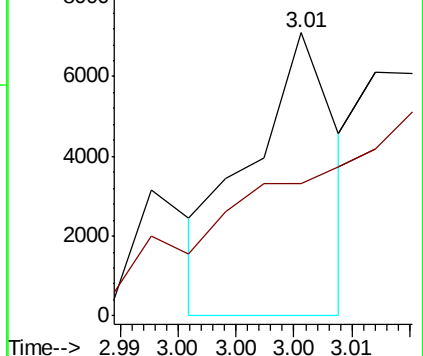
41 100

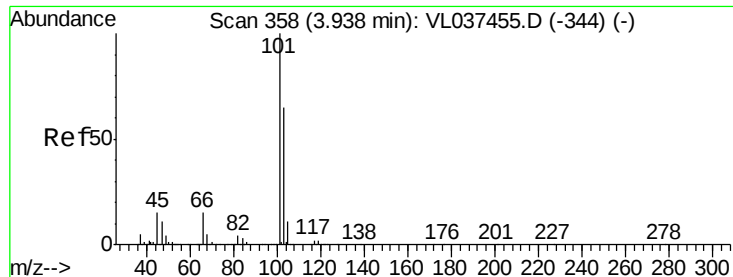
42 0.0 53.7 80.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

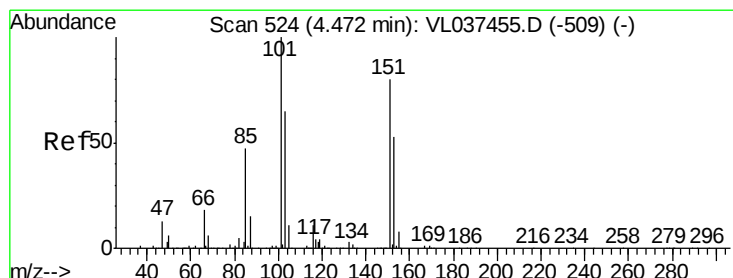
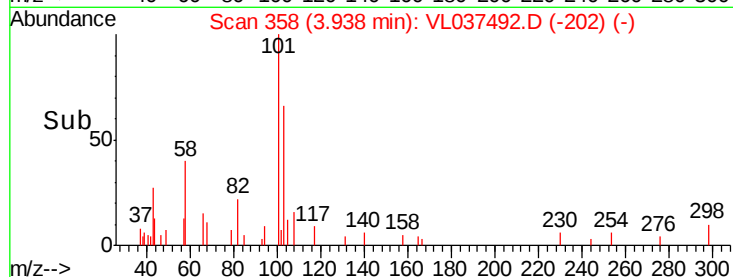
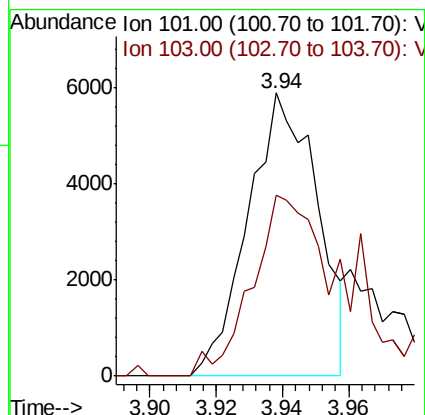
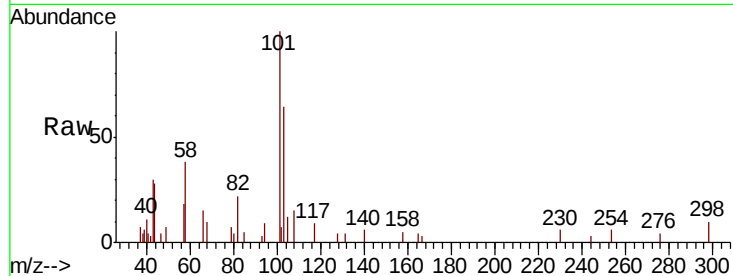




#11
 Trichlorofluoromethane
 Concen: 0.041 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VL037492.D
 Acq: 18 Aug 2021 15:39

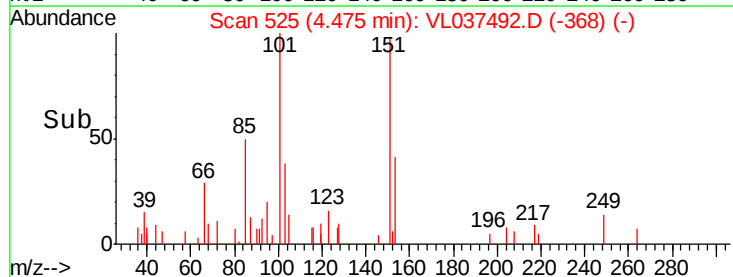
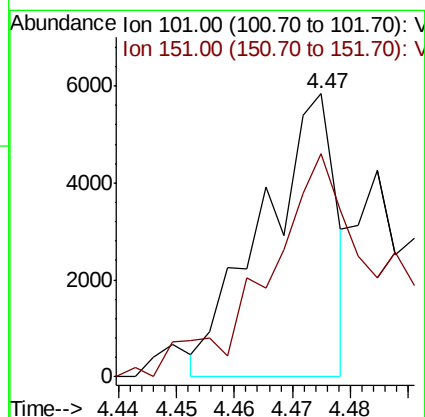
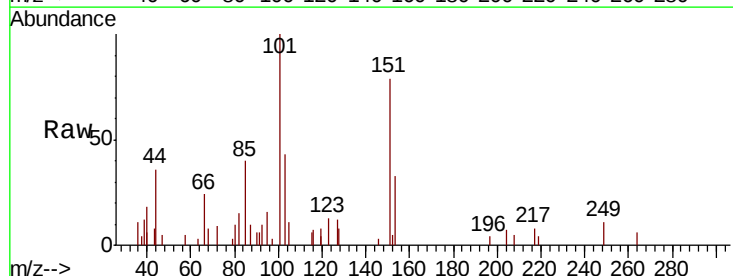
Instrument :
 MSVOA_L
 ClientSampleId :

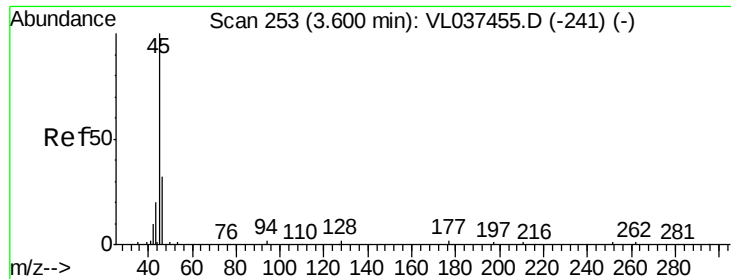
Tot Ion:101 Resp: 8561
 Ion Ratio Lower Upper
 101 100
 103 64.0 51.8 77.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.033 ppbv
 RT: 4.47 min Scan# 525
 Delta R.T. 0.00 min
 Lab File: VL037492.D
 Acq: 18 Aug 2021 15:39

Tgt Ion:101 Resp: 5118
 Ion Ratio Lower Upper
 101 100
 151 129.6 63.7 95.5#

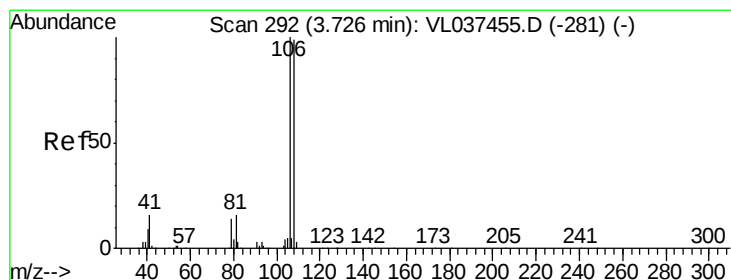
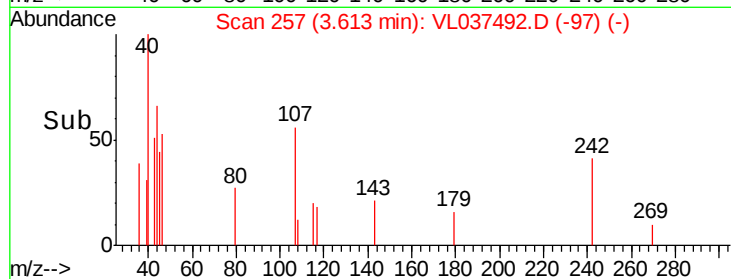
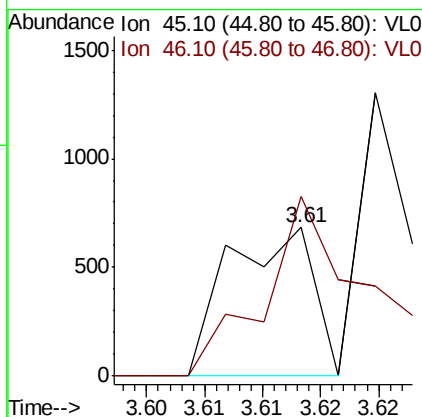
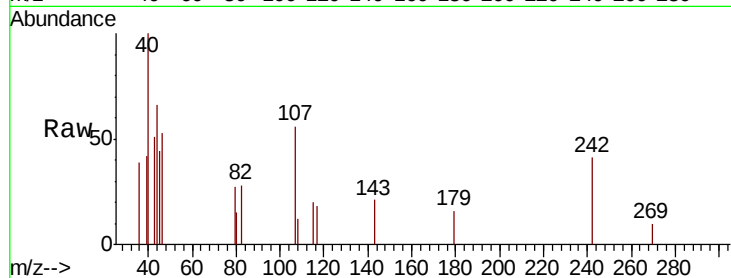




#13
Ethanol
Concen: 0.037 ppbv
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL037492.D
Acq: 18 Aug 2021 15:39

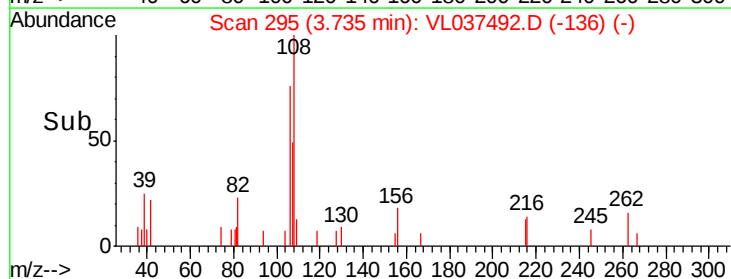
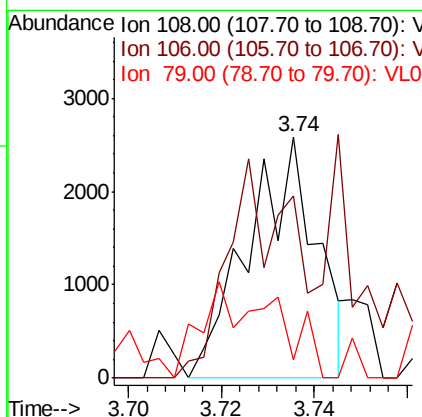
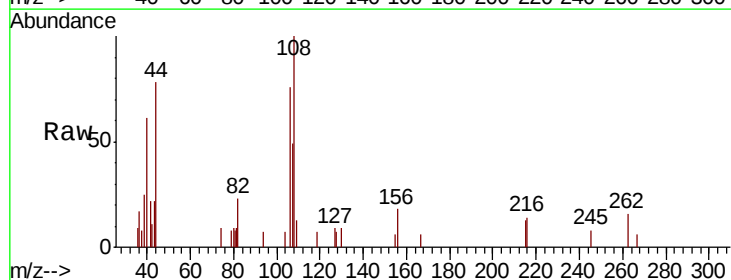
Instrument :
MSVOA_L
ClientSampled :

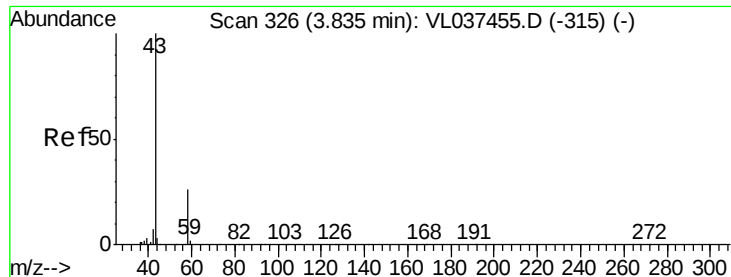
Tot Ion: 45 Resp: 345
Ion Ratio Lower Upper
45 100
46 192.5 14.1 56.5#



#14
Bromoethene
Concen: 0.037 ppbv
RT: 3.74 min Scan# 295
Delta R.T. 0.01 min
Lab File: VL037492.D
Acq: 18 Aug 2021 15:39

Tgt Ion: 108 Resp: 2631
Ion Ratio Lower Upper
108 100
106 0.0 85.8 128.8#
79 0.0 12.6 18.8#





#15

Acetone

Concen: 0.150 ppbv

RT: 3.88 min Scan# 339

Delta R.T. 0.04 min

Lab File: VL037492.D

Acq: 18 Aug 2021 15:39

Instrument :

MSVOA_L

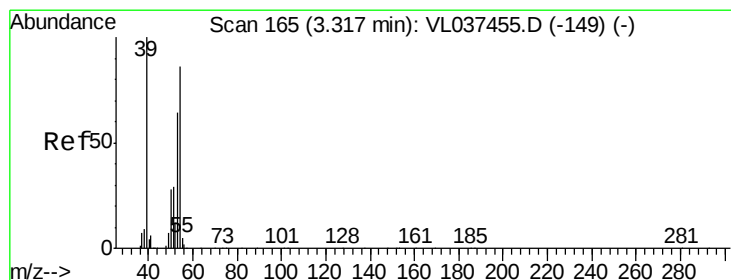
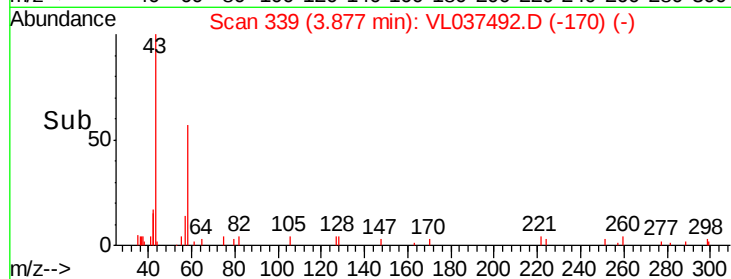
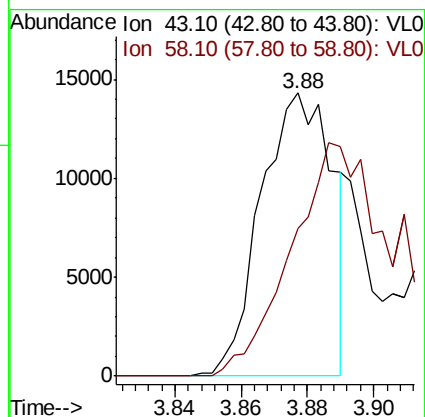
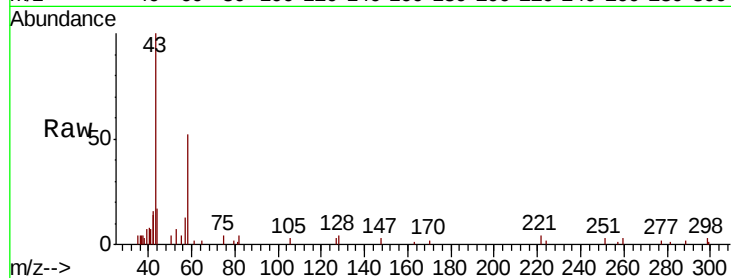
ClientSampleId :

Tot Ion: 43 Resp: 21392

Ion Ratio Lower Upper

43 100

58 141.4 24.8 37.2#



#16

1,3-Butadiene

Concen: 0.048 ppbv

RT: 3.32 min Scan# 166

Delta R.T. 0.00 min

Lab File: VL037492.D

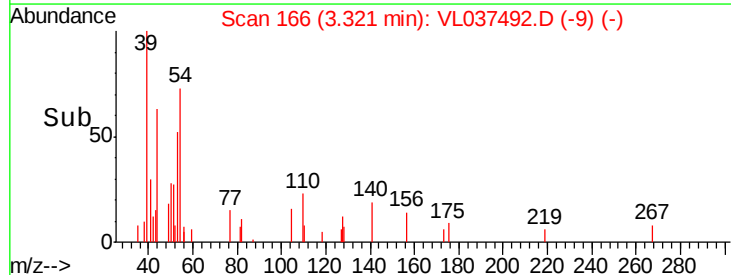
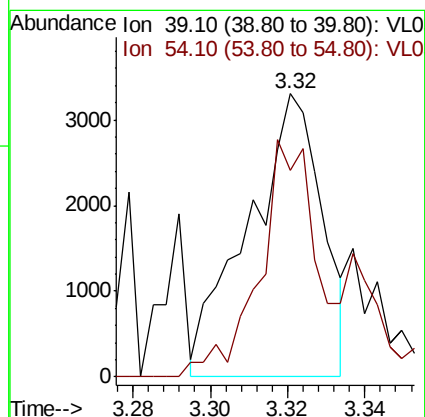
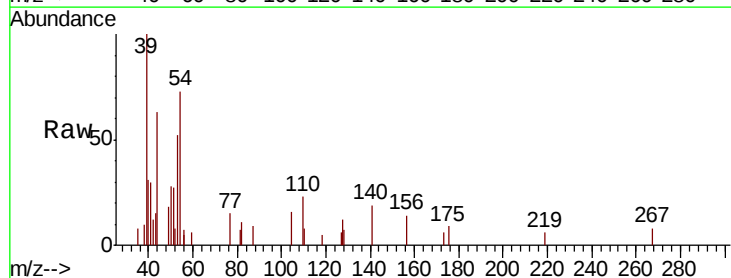
Acq: 18 Aug 2021 15:39

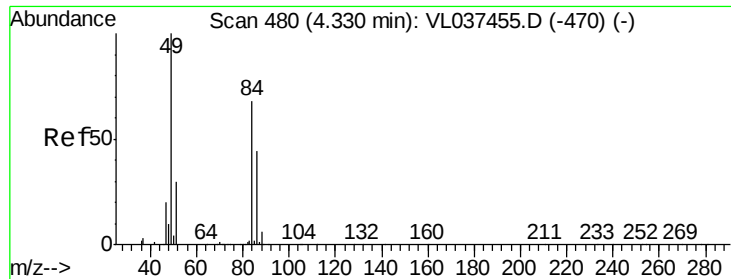
Tgt Ion: 39 Resp: 4379

Ion Ratio Lower Upper

39 100

54 91.8 63.7 95.5

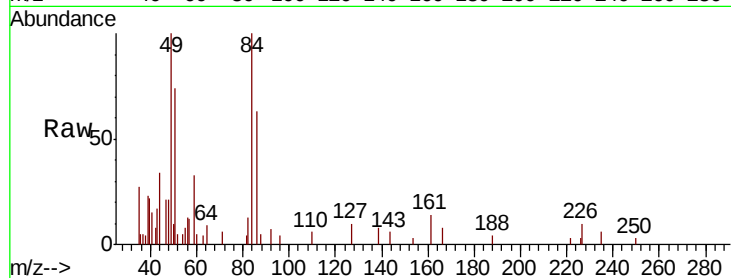




#20
Methvlene Chloride
Concen: 0.057 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.01 min
Lab File: VL037492.D
Acq: 18 Aug 2021 15:39

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	84	Resp:	4093
Ion	Ratio	Lower	Upper
84	100		
49	29.0	118.2	177.2#
51	63.1	36.6	55.0#
86	62.0	51.8	77.6



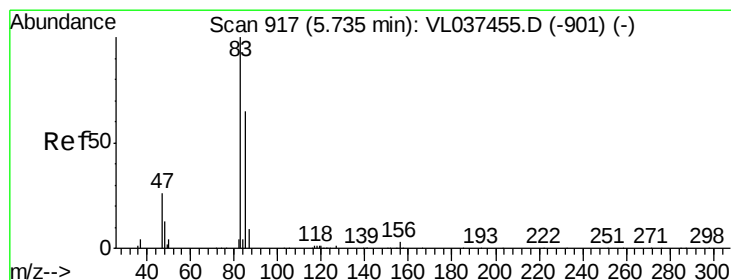
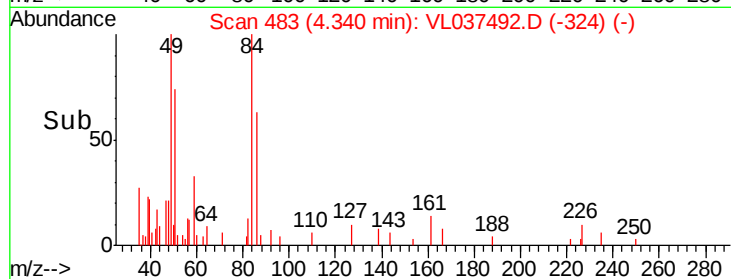
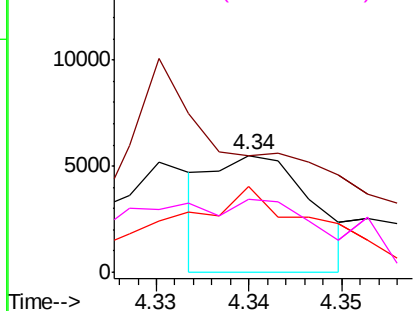
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

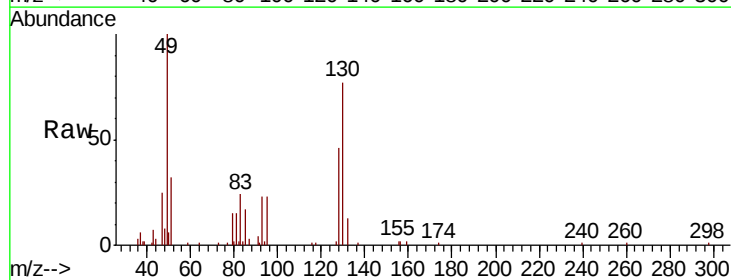
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#29
Chloroform
Concen: 0.032 ppbv
RT: 5.74 min Scan# 918
Delta R.T. 0.00 min
Lab File: VL037492.D
Acq: 18 Aug 2021 15:39

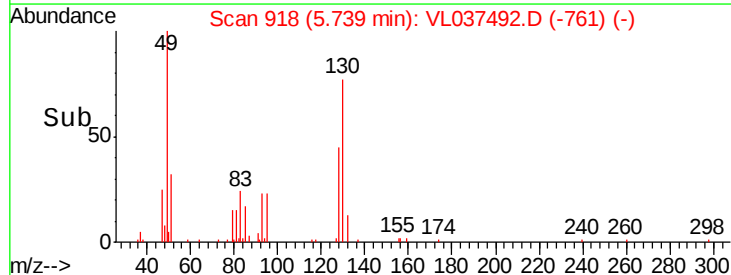
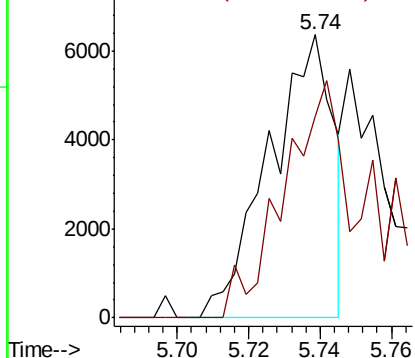
Tgt Ion:	83	Resp:	7921
Ion	Ratio	Lower	Upper
83	100		
85	71.0	52.3	78.5

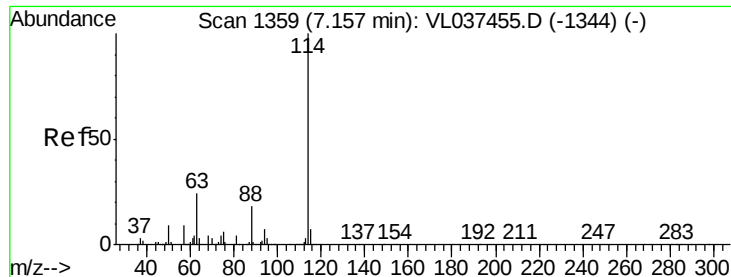


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

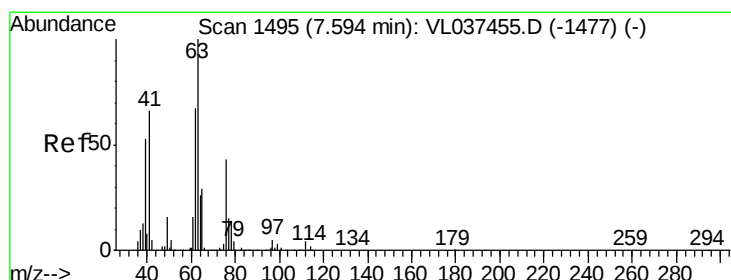
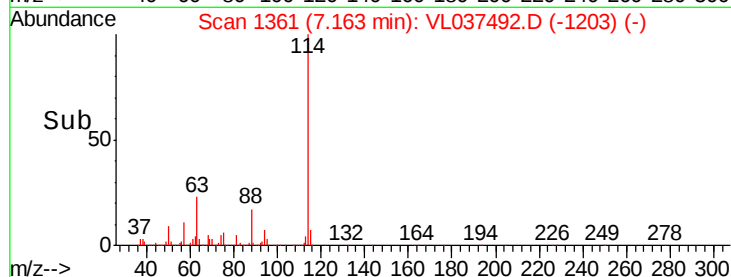
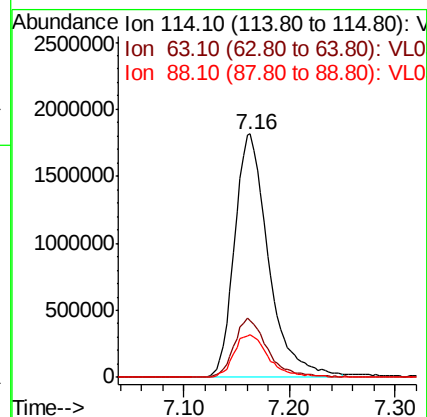
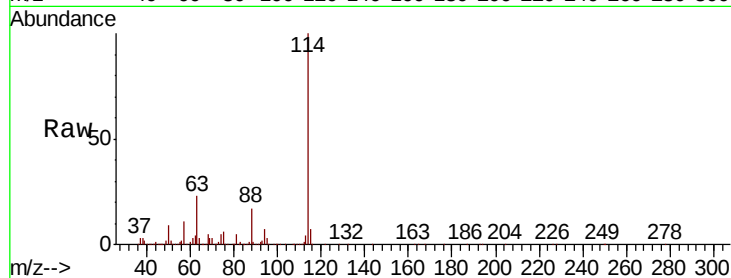




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. 0.01 min
 Lab File: VL037492.D
 Acq: 18 Aug 2021 15:39

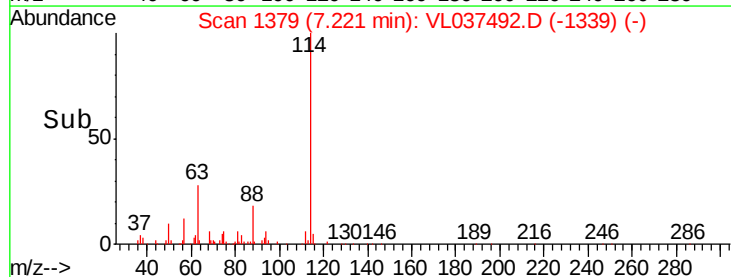
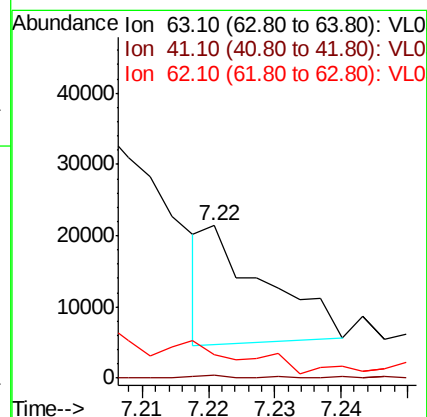
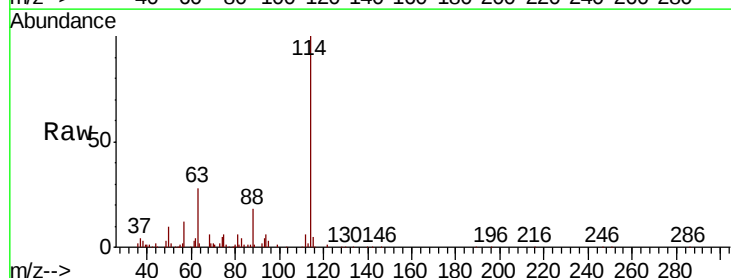
Instrument :
 MSVOA_L
 ClientSampleId :

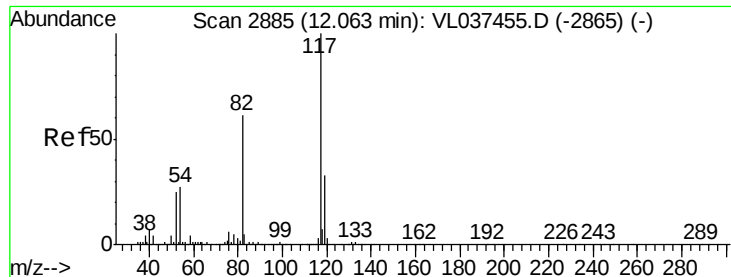
Tot Ion:114 Resp: 4064170
 Ion Ratio Lower Upper
 114 100
 63 24.1 19.3 28.9
 88 17.9 14.2 21.4



#39
 1,2-Dichloropropane
 Concen: 0.080 ppbv
 RT: 7.22 min Scan# 1379
 Delta R.T. -0.37 min
 Lab File: VL037492.D
 Acq: 18 Aug 2021 15:39

Tgt Ion: 63 Resp: 10465
 Ion Ratio Lower Upper
 63 100
 41 0.6 52.4 78.6#
 62 11.1 53.6 80.4#

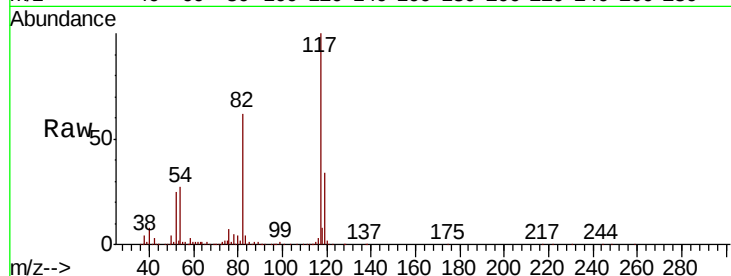




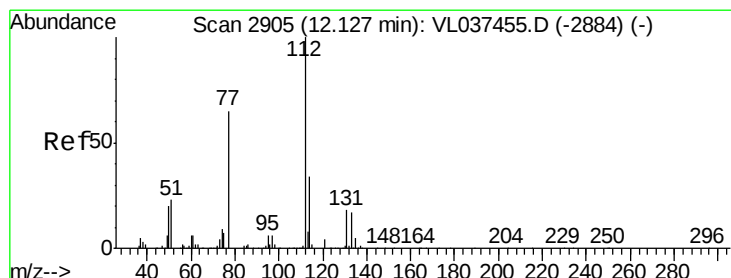
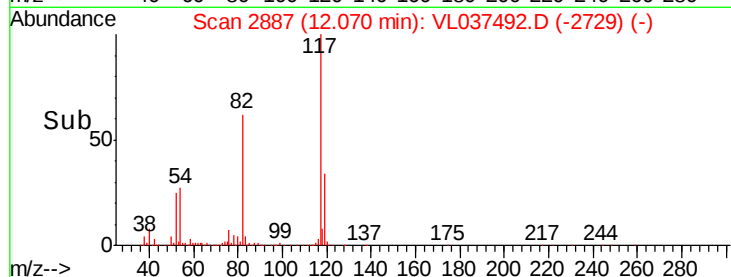
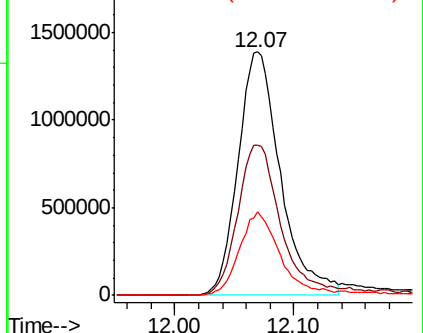
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2887
Delta R.T. 0.01 min
Lab File: VL037492.D
Acq: 18 Aug 2021 15:39

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3434577
Ion Ratio Lower Upper
117 100
82 68.3 52.9 79.3
119 34.5 24.8 37.2

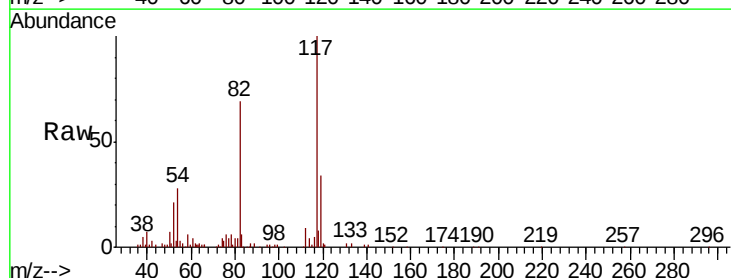


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

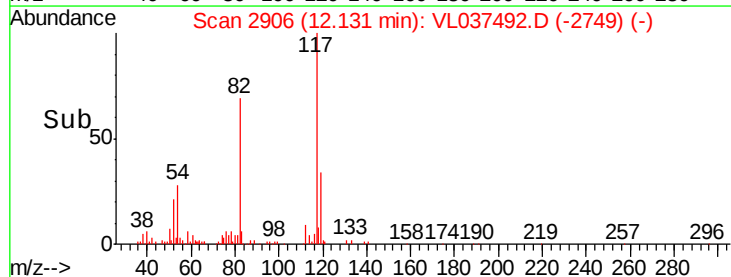
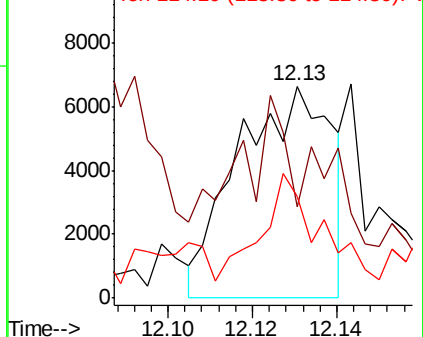


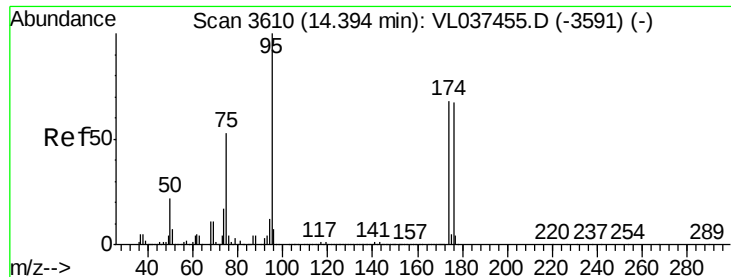
#57
Chlorobenzene
Concen: 0.036 ppbv
RT: 12.13 min Scan# 2906
Delta R.T. 0.00 min
Lab File: VL037492.D
Acq: 18 Aug 2021 15:39

Tgt Ion:112 Resp: 10175
Ion Ratio Lower Upper
112 100
77 8.3 51.6 77.4#
114 31.4 30.7 37.5



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.124 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. 0.00 min

Lab File: VL037492.D

Acq: 18 Aug 2021 15:39

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2470232

Ion Ratio Lower Upper

95 100

174 75.3 59.6 89.4

175 5.2 4.6 7.0

