

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090821\
 Data File : VL037581.D
 Acq On : 8 Sep 2021 21:12
 Operator : SY/AP
 Sample : M3663-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Quant Time: Sep 09 09:13:53 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	1599567	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4662197	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	3991820	10.00	ppbv	0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.43	95	2862275	10.09	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%	

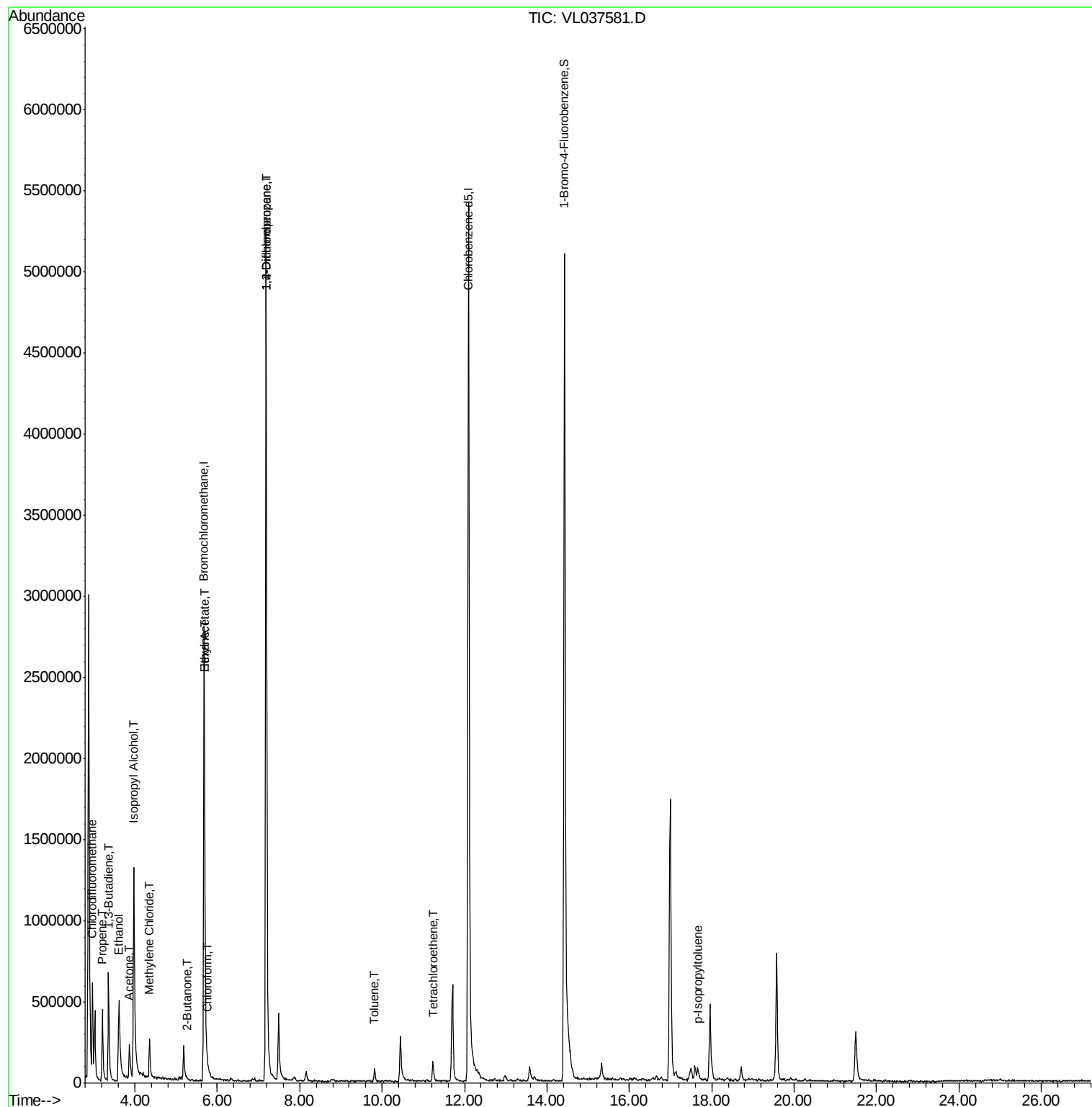
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	497474	1.624	ppbv #	60
9) Propene	3.21	41	146701	1.339	ppbv	85
13) Ethanol	3.61	45	803813	75.374	ppbv	88
15) Acetone	3.86	43	252759	1.553	ppbv #	79
16) 1,3-Butadiene	3.36	39	97295	0.932	ppbv #	12
19) Isopropyl Alcohol	3.97	45	1803368	19.336	ppbv #	97
20) Methylene Chloride	4.35	84	56919	0.698	ppbv	98
25) Ethyl Acetate	5.70	43	71128	0.172	ppbv #	69
26) Hexane	5.70	57	109091	0.540	ppbv #	53
29) Chloroform	5.76	83	10322	0.036	ppbv	97
34) 2-Butanone	5.26	43	11507	0.060	ppbv #	54
39) 1,2-Dichloropropane	7.19	63	1095051	7.271	ppbv #	28
52) Tetrachloroethene	11.24	164	29952	0.186	ppbv #	71
53) Toluene	9.82	91	49496	0.111	ppbv #	80
69) p-Isopropyltoluene	17.66	119	51931	0.079	ppbv #	89

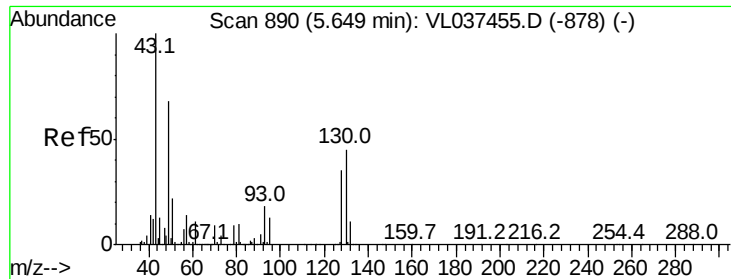
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090821\
Data File : VL037581.D
Acq On : 8 Sep 2021 21:12
Operator : SY/AP
Sample : M3663-02DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

Quant Time: Sep 09 09:13:53 2021
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.03 min

Lab File: VL037581.D

Acq: 8 Sep 2021 21:12

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

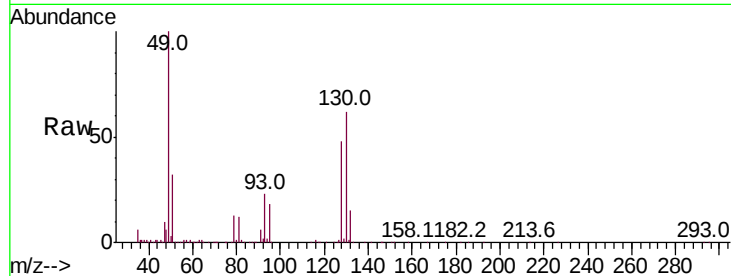
Tot Ion: 49 Resp: 1599567

Ion Ratio Lower Upper

49 100

128 53.6 27.5 82.4

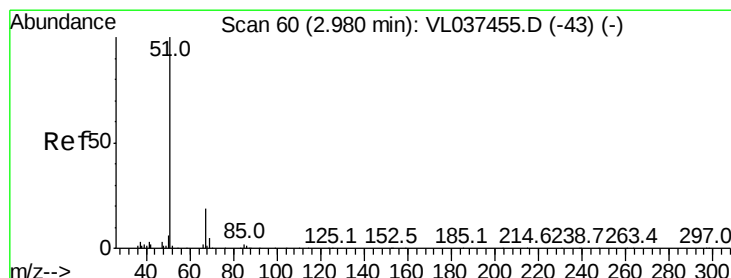
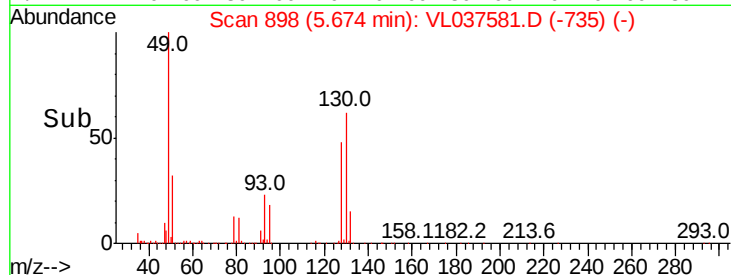
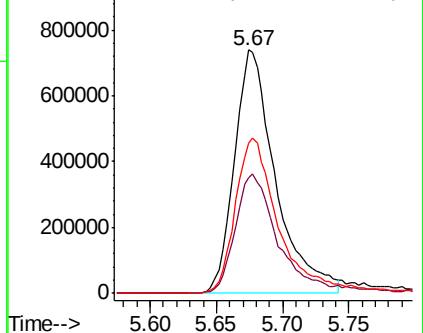
130 69.6 34.0 101.8



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



#3

Chlorodifluoromethane

Concen: 1.624 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL037581.D

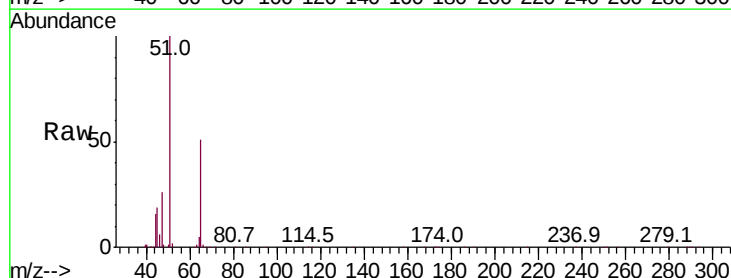
Acq: 8 Sep 2021 21:12

Tgt Ion: 51 Resp: 497474

Ion Ratio Lower Upper

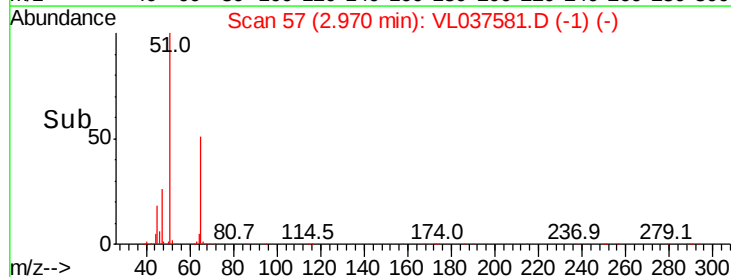
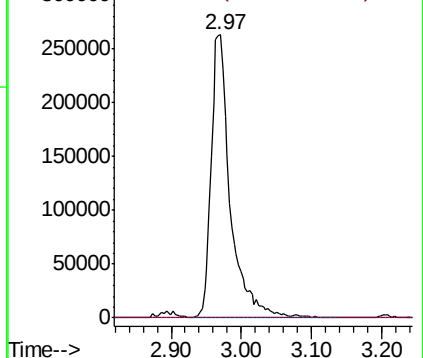
51 100

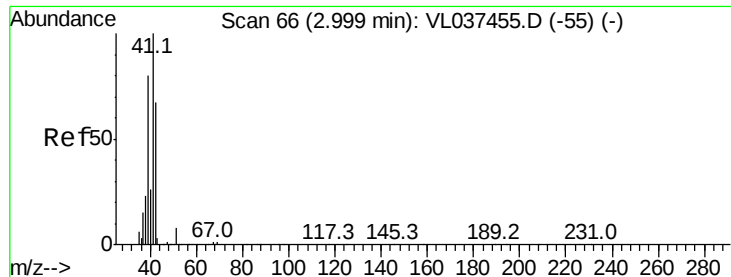
67 0.1 14.2 21.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 1.339 ppbv

RT: 3.21 min Scan# 132

Delta R.T. 0.21 min

Lab File: VL037581.D

Acq: 8 Sep 2021 21:12

Instrument :

MSVOA_L

ClientSampleId :

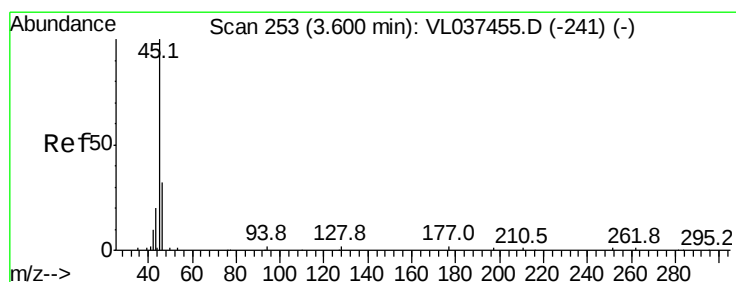
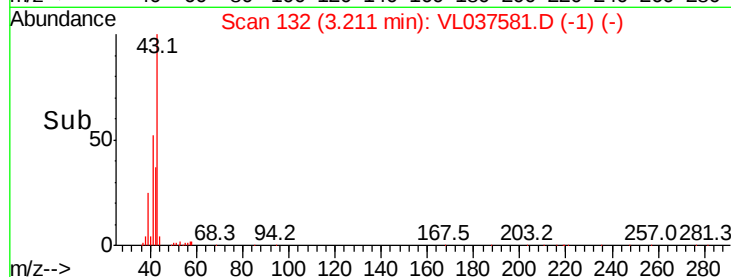
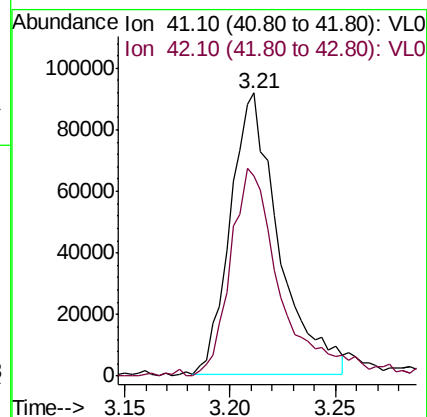
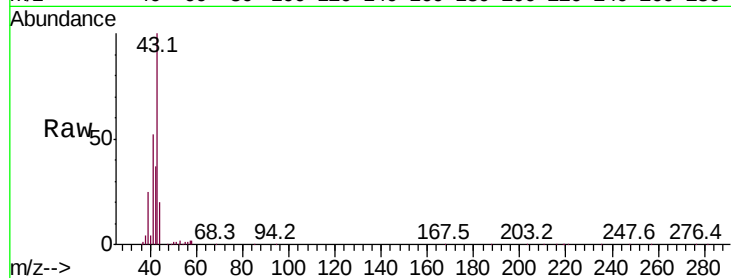
IA-2DL

Tot Ion: 41 Resp: 146701

Ion Ratio Lower Upper

41 100

42 79.0 53.7 80.5



#13

Ethanol

Concen: 75.374 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.01 min

Lab File: VL037581.D

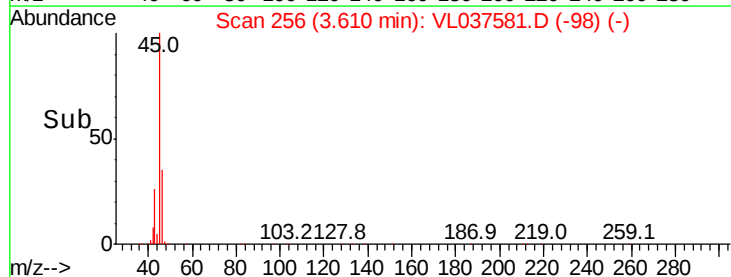
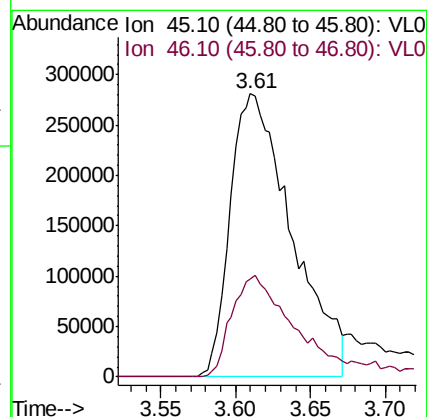
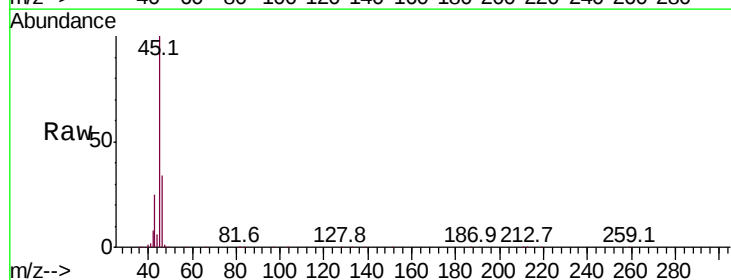
Acq: 8 Sep 2021 21:12

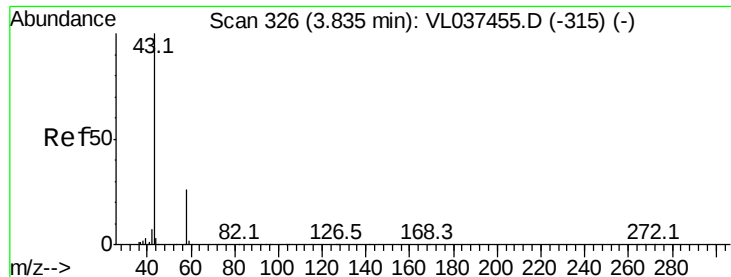
Tgt Ion: 45 Resp: 803813

Ion Ratio Lower Upper

45 100

46 42.2 14.1 56.5





#15

Acetone

Concen: 1.553 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.03 min

Lab File: VL037581.D

Acq: 8 Sep 2021 21:12

Instrument :

MSVOA_L

ClientSampleId :

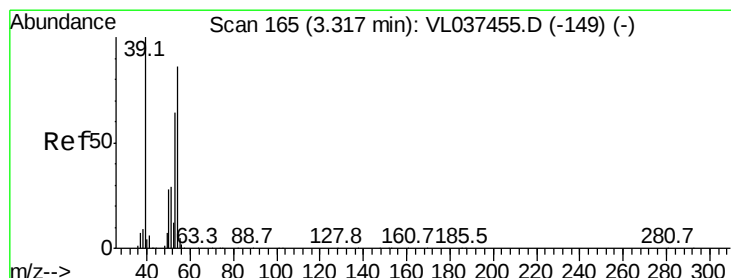
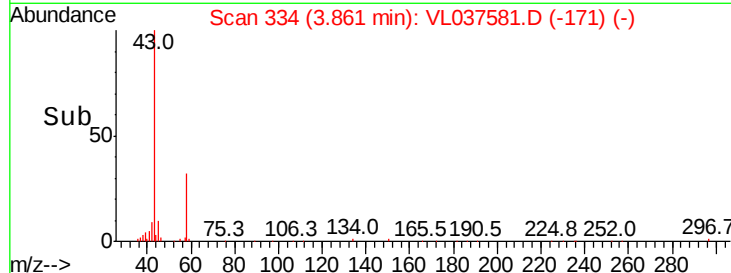
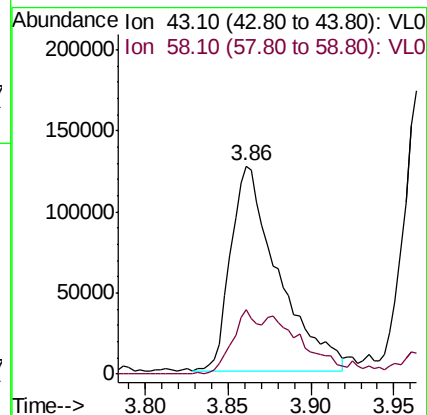
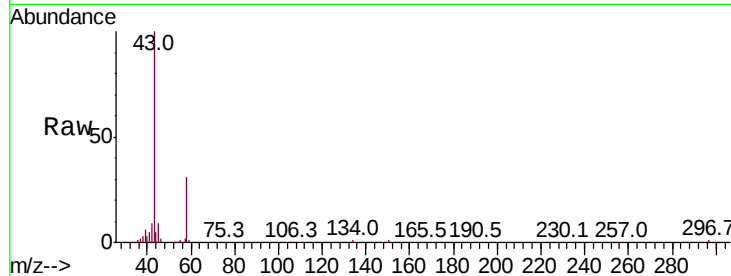
IA-2DL

Tot Ion: 43 Resp: 252759

Ion Ratio Lower Upper

43 100

58 42.7 24.8 37.2#



#16

1,3-Butadiene

Concen: 0.932 ppbv

RT: 3.36 min Scan# 178

Delta R.T. 0.04 min

Lab File: VL037581.D

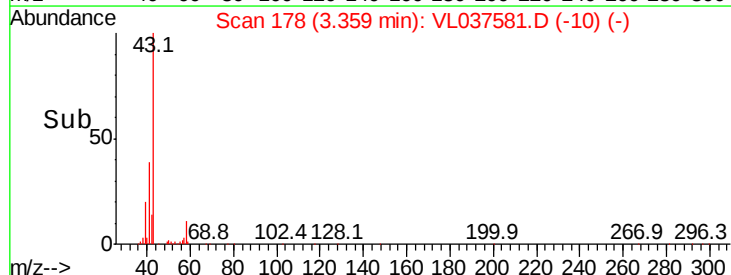
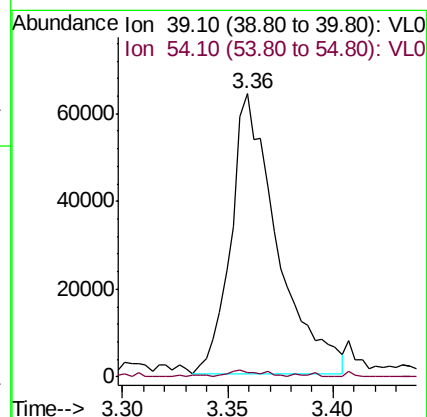
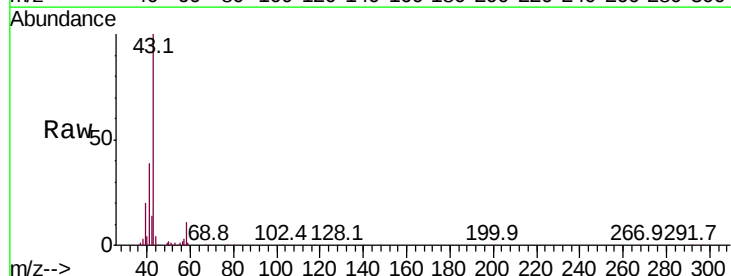
Acq: 8 Sep 2021 21:12

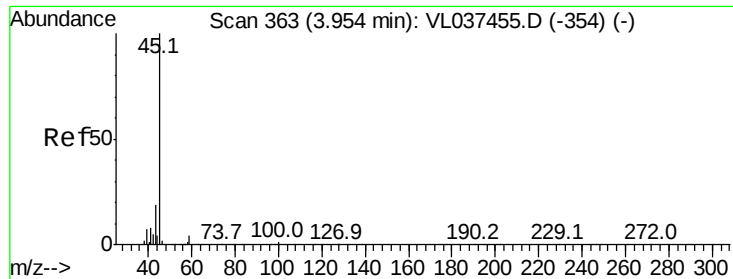
Tgt Ion: 39 Resp: 97295

Ion Ratio Lower Upper

39 100

54 2.5 63.7 95.5#



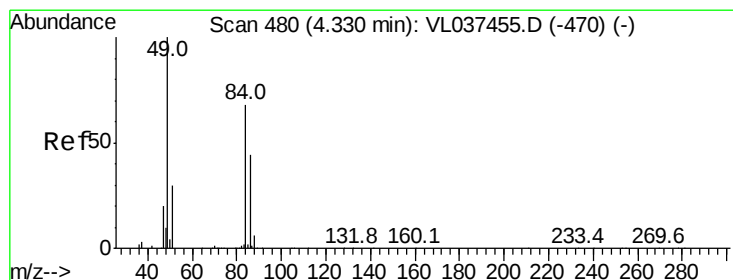
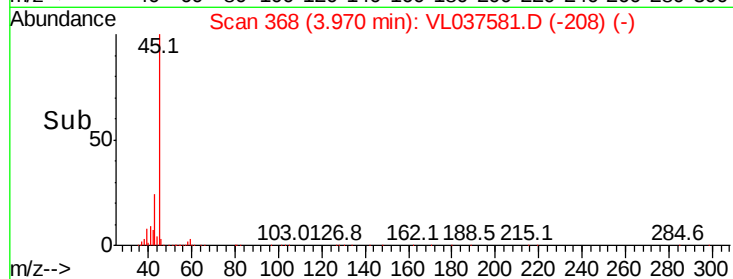
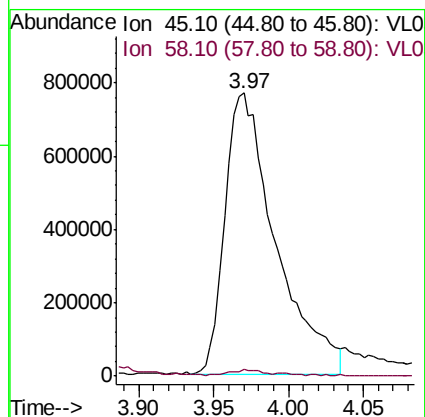
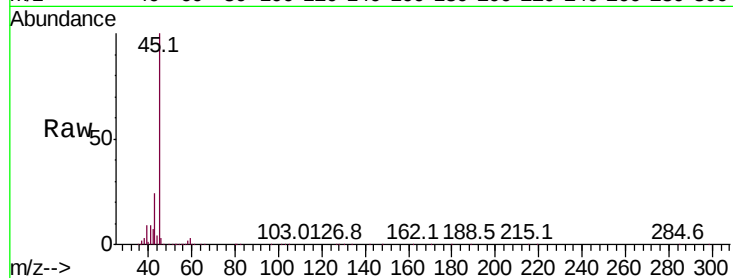


#19

Isopropyl Alcohol
 Concen: 19.336 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.02 min
 Lab File: VL037581.D
 Acq: 8 Sep 2021 21:12

Instrument :
 MSVOA_L
 ClientSampleID :
 IA-2DL

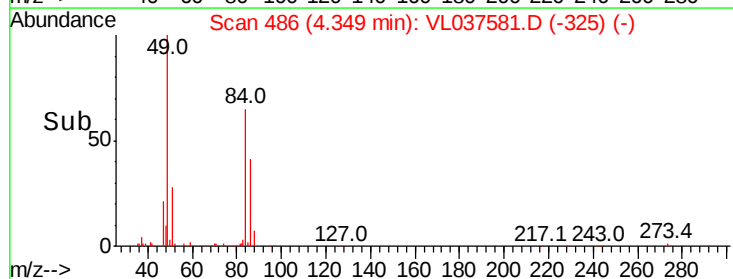
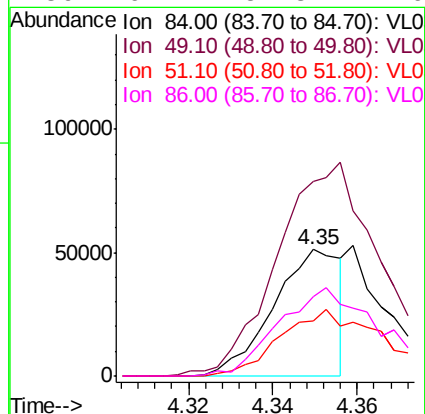
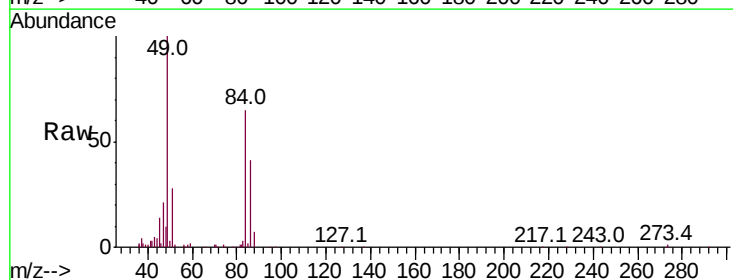
Tot Ion: 45 Resp: 1803368
 Ion Ratio Lower Upper
 45 100
 58 2.9 1.4 2.2#

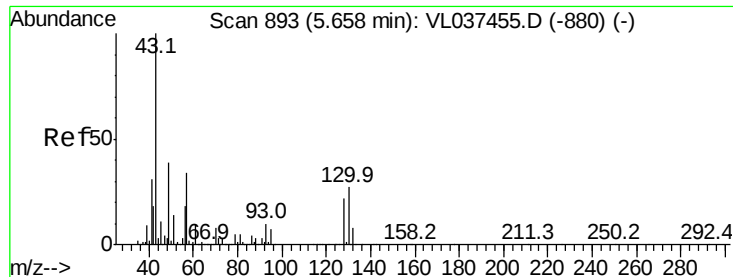


#20

Methylene Chloride
 Concen: 0.698 ppbv
 RT: 4.35 min Scan# 486
 Delta R.T. 0.02 min
 Lab File: VL037581.D
 Acq: 8 Sep 2021 21:12

Tgt Ion: 84 Resp: 56919
 Ion Ratio Lower Upper
 84 100
 49 150.4 118.2 177.2
 51 43.4 36.6 55.0
 86 62.7 51.8 77.6

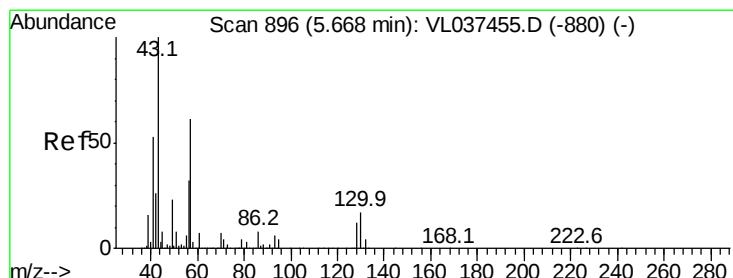
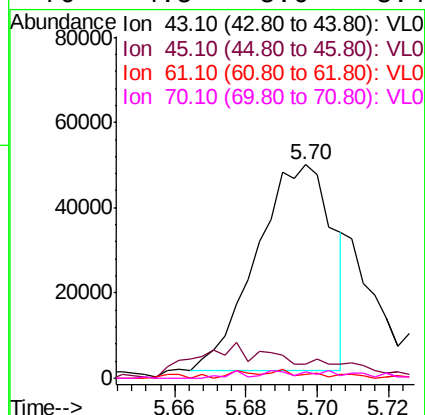
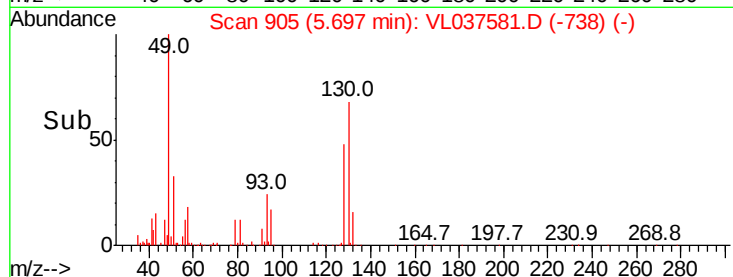
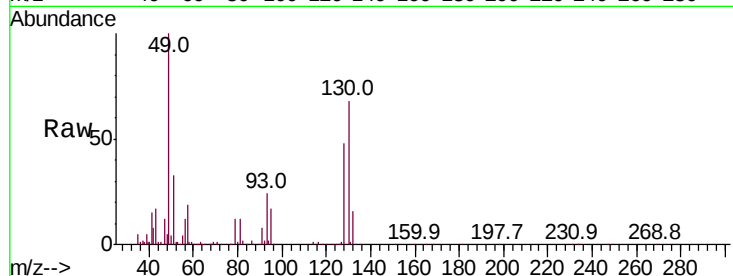




#25
Ethyl Acetate
Concen: 0.172 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.04 min
Lab File: VL037581.D
Acq: 8 Sep 2021 21:12

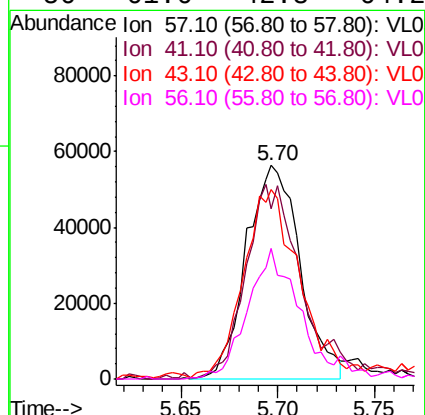
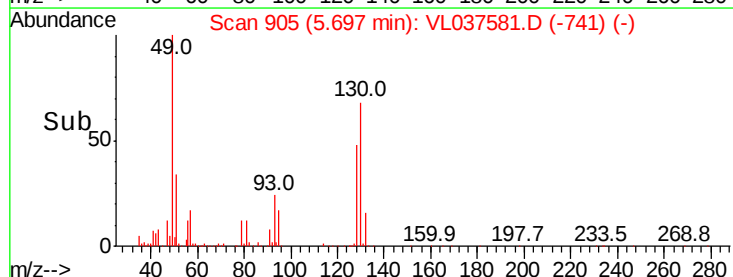
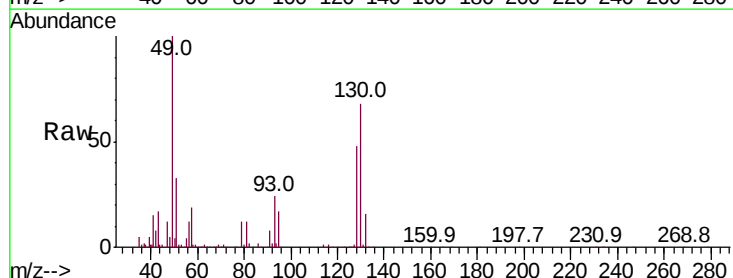
Instrument :
MSVOA_L
ClientSampleID :
IA-2DL

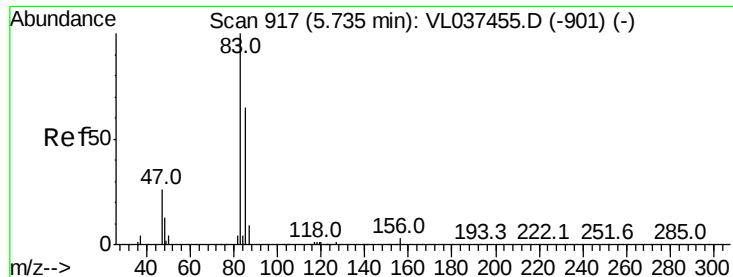
Tot Ion:	43	Resp:	71128
Ion	Ratio	Lower	Upper
43	100		
45	32.5	8.0	12.0#
61	3.8	8.0	12.0#
70	4.5	5.6	8.4#



#26
Hexane
Concen: 0.540 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.03 min
Lab File: VL037581.D
Acq: 8 Sep 2021 21:12

Tgt Ion:	57	Resp:	109091
Ion	Ratio	Lower	Upper
57	100		
41	99.2	72.3	108.5
43	101.4	172.3	258.5#
56	61.6	42.8	64.2





#29

Chloroform

Concen: 0.036 ppbv

RT: 5.76 min Scan# 925

Delta R.T. 0.03 min

Lab File: VL037581.D

Acq: 8 Sep 2021 21:12

Instrument :

MSVOA_L

ClientSampleId :

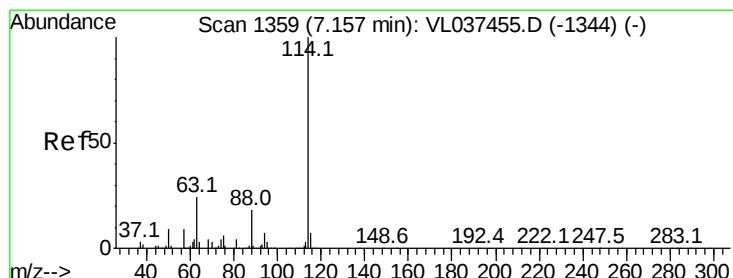
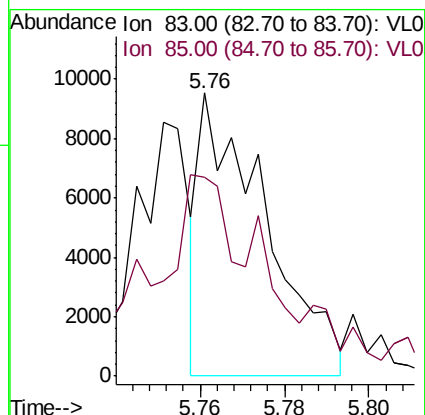
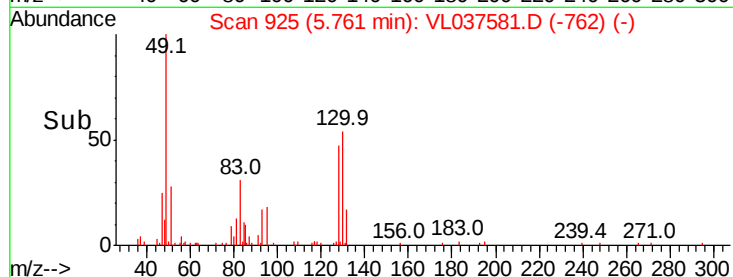
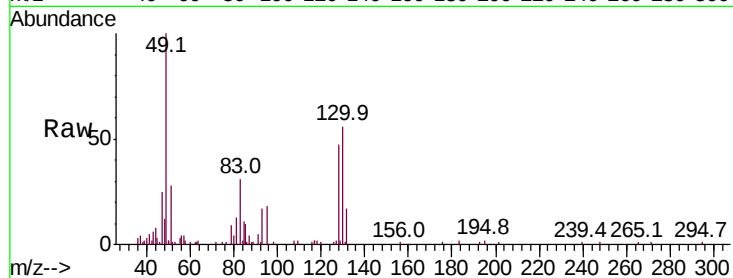
IA-2DL

Tot Ion: 83 Resp: 10322

Ion Ratio Lower Upper

83 100

85 67.8 52.3 78.5



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. 0.03 min

Lab File: VL037581.D

Acq: 8 Sep 2021 21:12

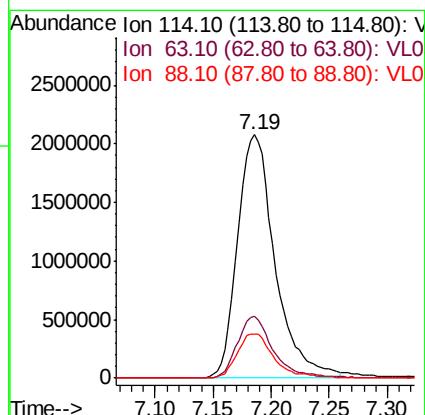
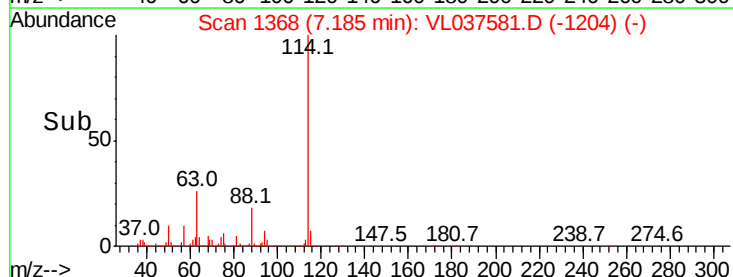
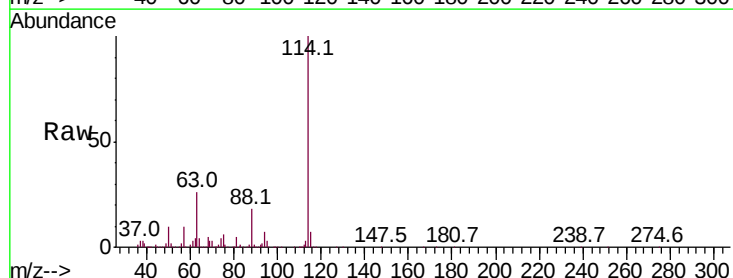
Tgt Ion: 114 Resp: 4662197

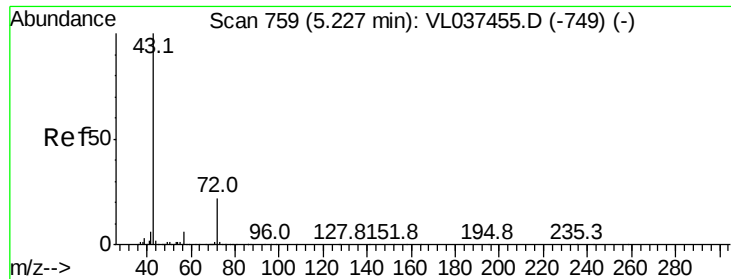
Ion Ratio Lower Upper

114 100

63 24.6 19.3 28.9

88 18.2 14.2 21.4

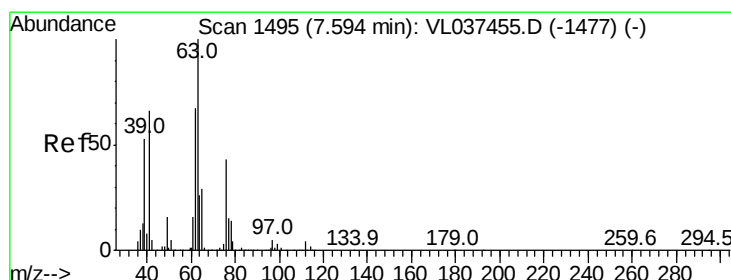
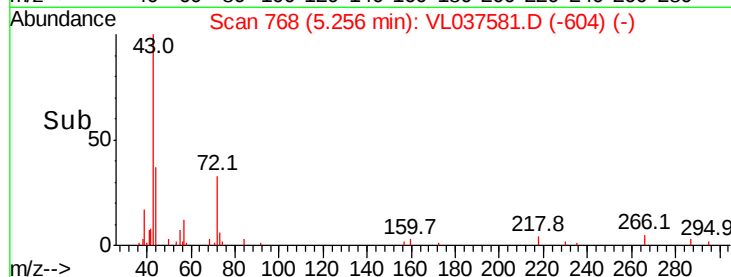
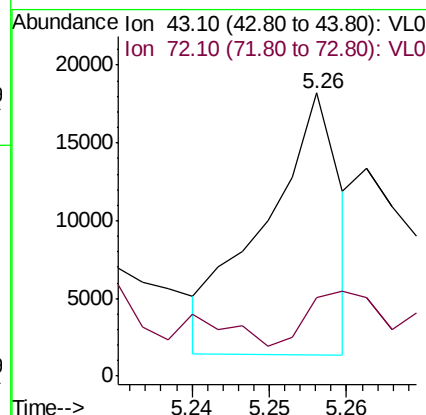
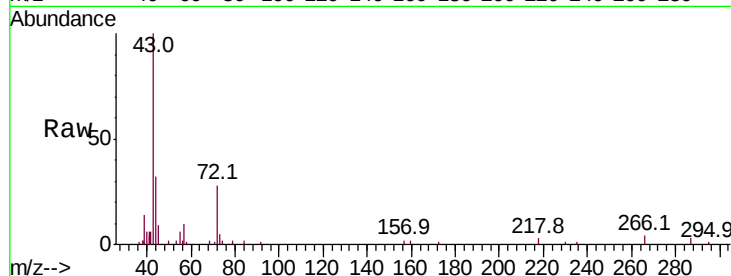




#34
2-Butanone
Concen: 0.060 ppbv
RT: 5.26 min Scan# 768
Delta R.T. 0.03 min
Lab File: VL037581.D
Acq: 8 Sep 2021 21:12

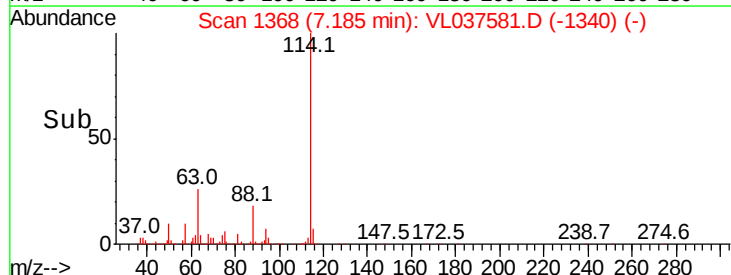
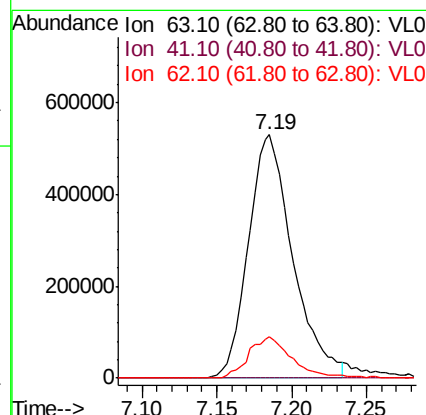
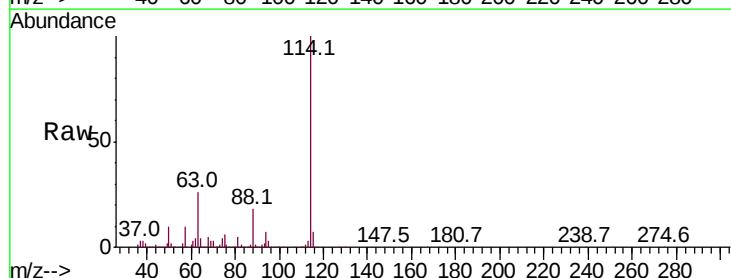
Instrument :
MSVOA_L
ClientSampled :
IA-2DL

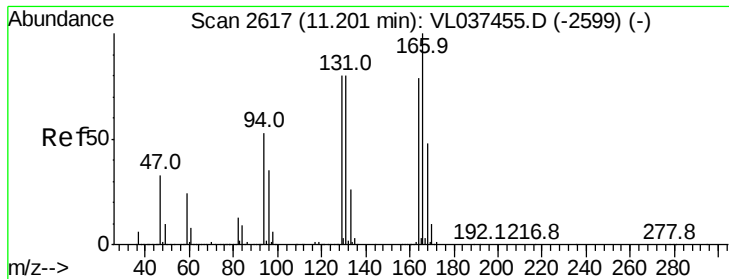
Tot Ion: 43 Resp: 11507
Ion Ratio Lower Upper
43 100
72 0.0 17.4 26.0#



#39
1,2-Dichloropropane
Concen: 7.271 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. -0.41 min
Lab File: VL037581.D
Acq: 8 Sep 2021 21:12

Tgt Ion: 63 Resp: 1095051
Ion Ratio Lower Upper
63 100
41 0.1 52.4 78.6#
62 16.9 53.6 80.4#





#52

Tetrachloroethene

Concen: 0.186 ppbv

RT: 11.24 min Scan# 2628

Delta R.T. 0.04 min

Lab File: VL037581.D

Acq: 8 Sep 2021 21:12

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

Tot Ion:164 Resp: 29952

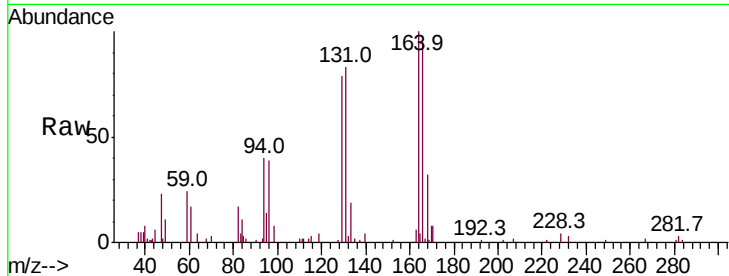
Ion Ratio Lower Upper

164 100

166 87.1 100.7 151.1#

129 70.1 80.9 121.3#

131 80.4 80.2 120.4



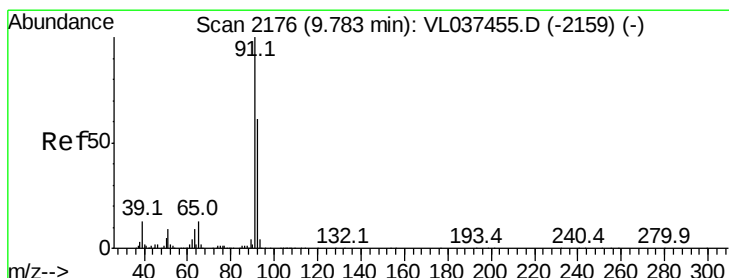
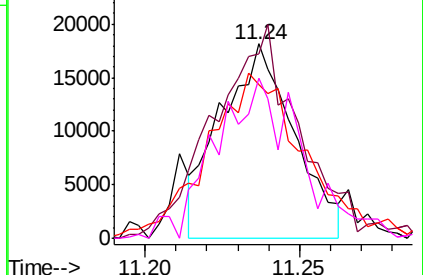
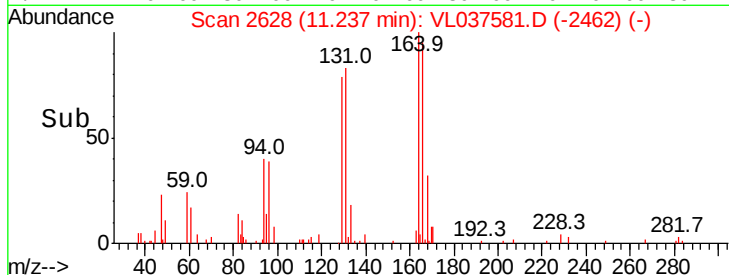
Abundance Ion 163.90 (163.60 to 164.60): V

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

Time-->



#53

Toluene

Concen: 0.111 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.04 min

Lab File: VL037581.D

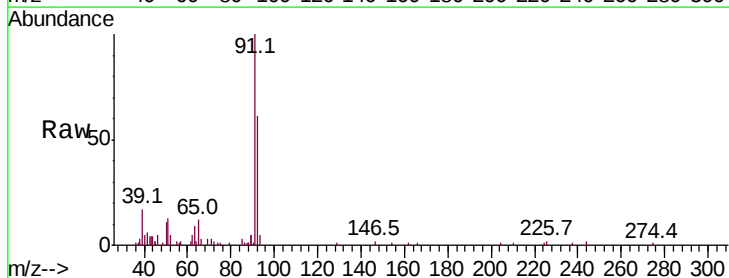
Acq: 8 Sep 2021 21:12

Tgt Ion: 91 Resp: 49496

Ion Ratio Lower Upper

91 100

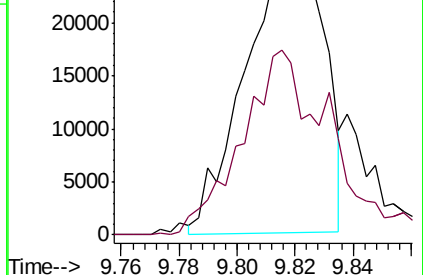
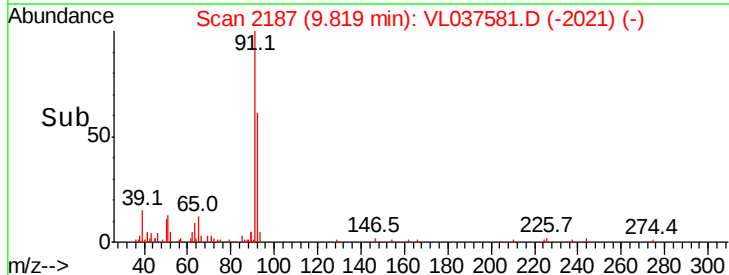
92 76.2 48.8 73.2#

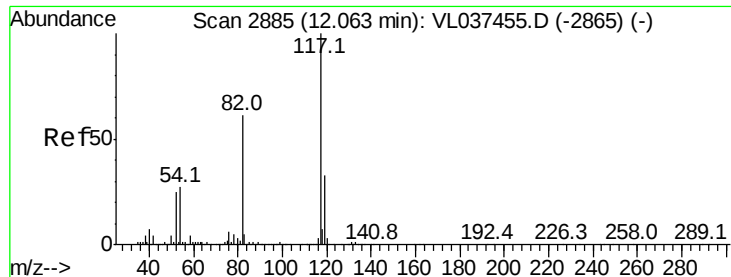


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Time-->

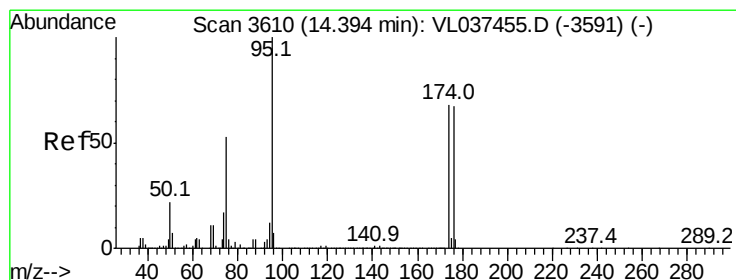
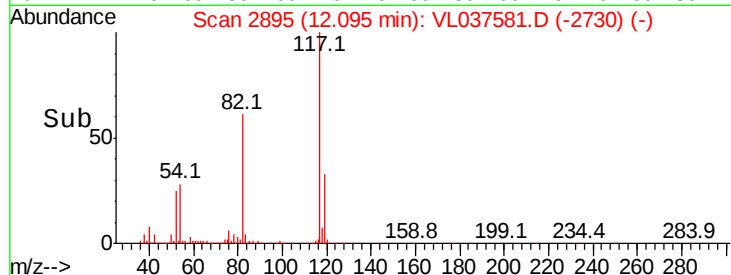
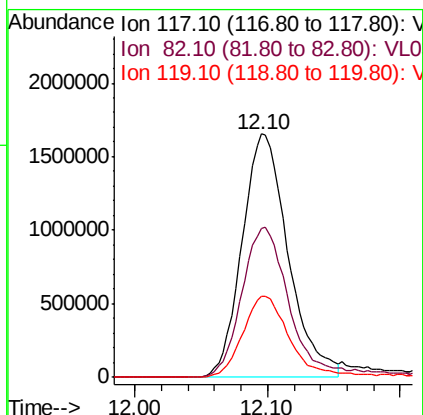
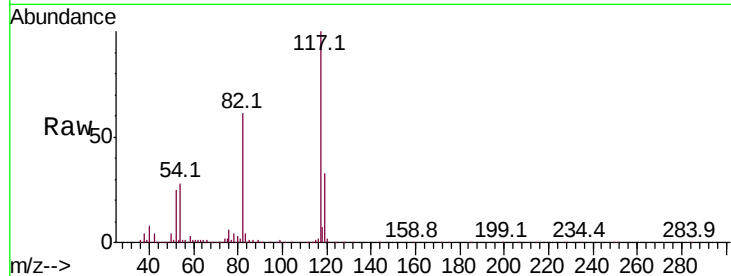




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. 0.03 min
Lab File: VL037581.D
Acq: 8 Sep 2021 21:12

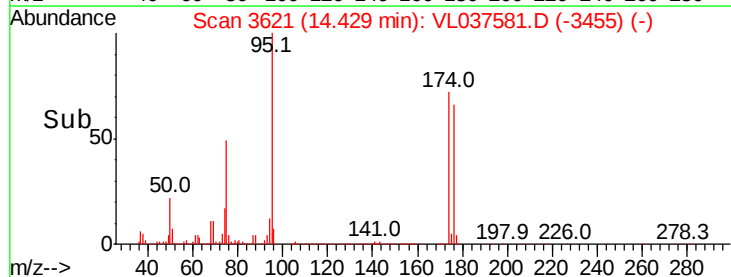
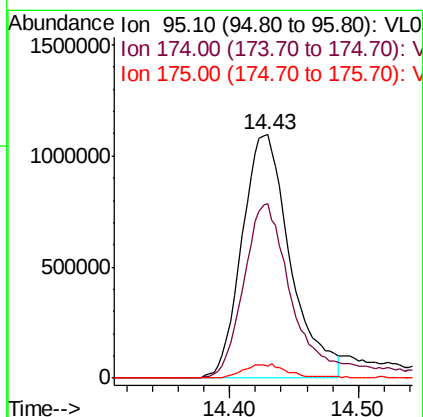
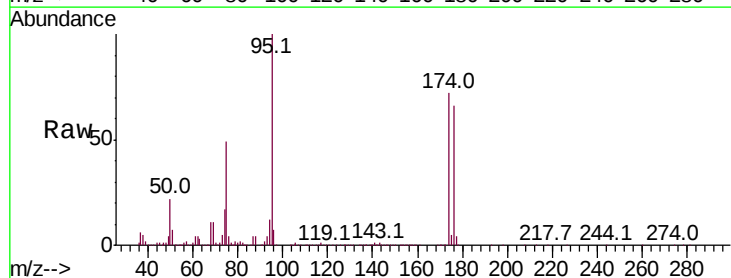
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

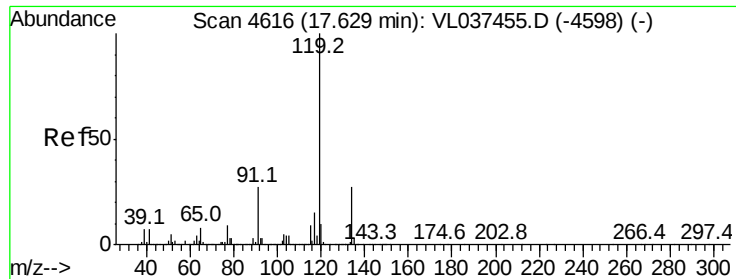
Tot Ion:117 Resp: 3991820
Ion Ratio Lower Upper
117 100
82 68.9 52.9 79.3
119 35.8 24.8 37.2



#68
1-Bromo-4-Fluorobenzene
Concen: 10.093 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. 0.04 min
Lab File: VL037581.D
Acq: 8 Sep 2021 21:12

Tgt Ion: 95 Resp: 2862275
Ion Ratio Lower Upper
95 100
174 78.6 59.6 89.4
175 5.5 4.6 7.0





#69

p-Isopropyltoluene

Concen: 0.079 ppbv

RT: 17.66 min Scan# 4625

Delta R.T. 0.03 min

Lab File: VL037581.D

Acq: 8 Sep 2021 21:12

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

Tot Ion:119 Resp: 51931

Ion Ratio Lower Upper

119 100

134 27.0 21.1 31.7

91 38.9 22.4 33.6#

