

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
 Data File : VL038101.D
 Acq On : 23 Nov 2021 16:02
 Operator : SY/AP
 Sample : M4805-05DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-ROOK-COFFEEDL

Quant Time: Nov 24 06:54:26 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1003160	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2752366	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2464443	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1920461	10.80	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.00%

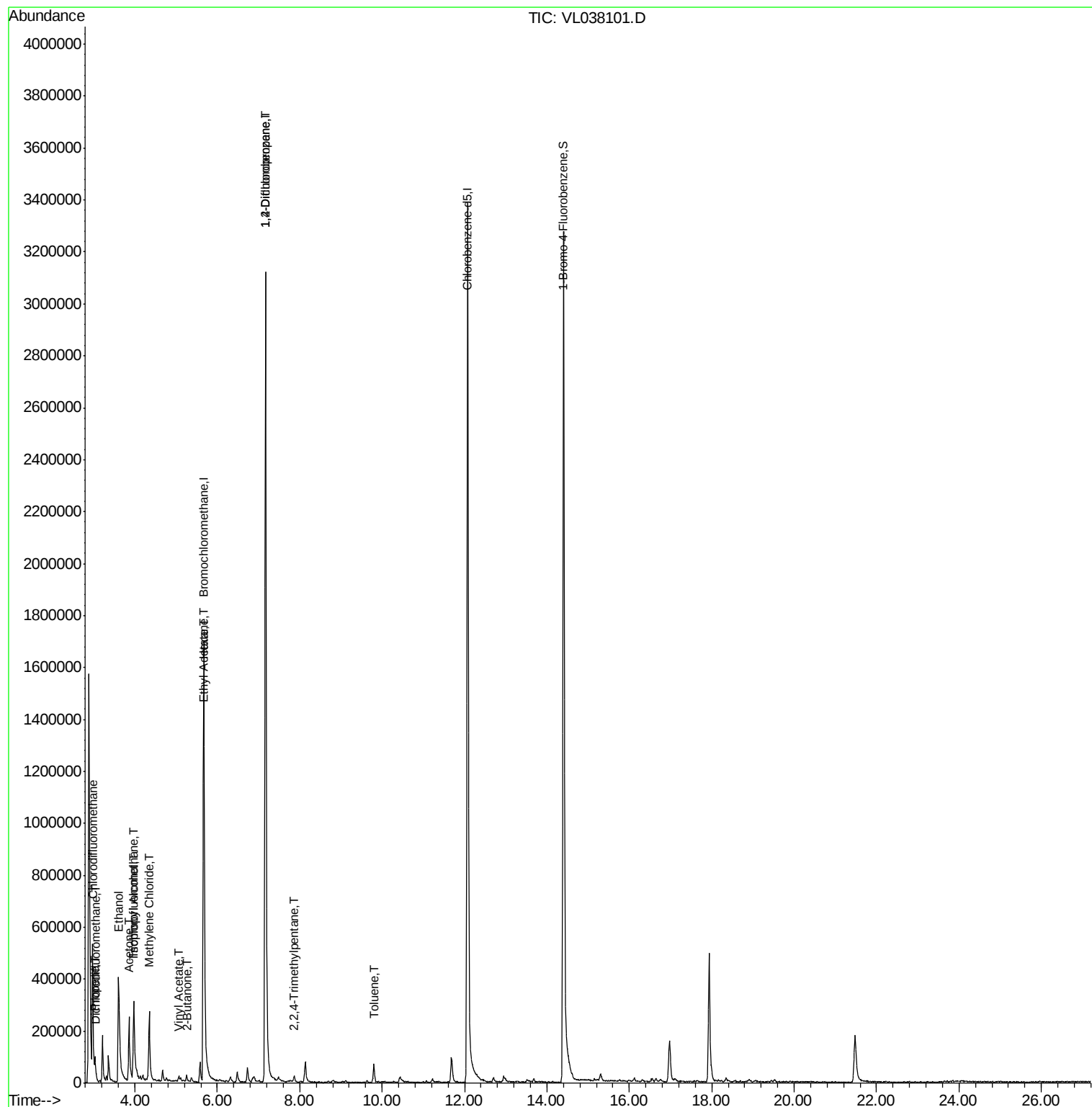
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	9232	0.056 ppbv	96
3) Chlorodifluoromethane	2.97	51	453743	2.154 ppbv #	61
9) Propene	3.02	41	13420	0.173 ppbv	88
11) Trichlorofluoromethane	3.95	101	6430	0.041 ppbv	95
13) Ethanol	3.60	45	616478	82.223 ppbv	93
15) Acetone	3.86	43	305470	3.512 ppbv	100
19) Isopropyl Alcohol	3.97	45	185497	2.952 ppbv #	84
20) Methylene Chloride	4.35	84	106493	2.186 ppbv	88
23) Vinyl Acetate	5.07	43	14909	0.118 ppbv #	81
25) Ethyl Acetate	5.69	43	66500	0.230 ppbv #	86
26) Hexane	5.68	57	72598	0.521 ppbv #	53
34) 2-Butanone	5.25	43	20198	0.182 ppbv #	63
39) 1,2-Dichloropropane	7.17	63	699638	6.643 ppbv #	27
44) 2,2,4-Trimethylpentane	7.86	57	18549	0.040 ppbv #	81
53) Toluene	9.80	91	51941	0.164 ppbv	100

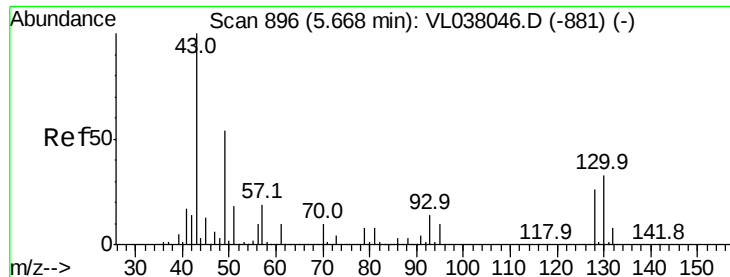
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA-ROOK-COFFEEDL

Acq: 23 Nov 2021 16:02

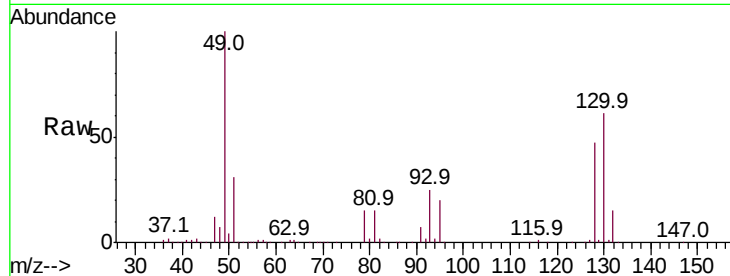
Tot Ion: 49 Resp: 1003160

Ion Ratio Lower Upper

49 100

128 48.9 26.5 79.5

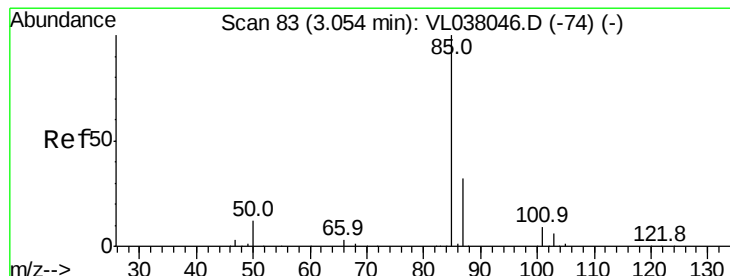
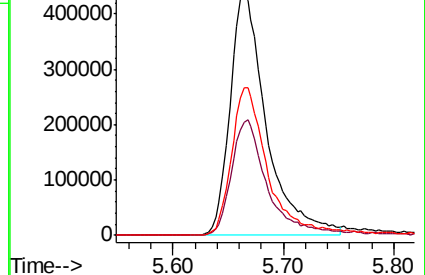
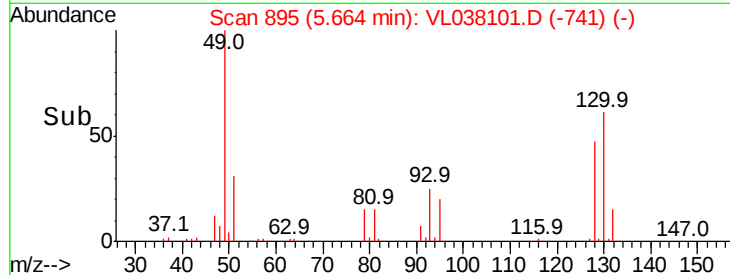
130 63.2 32.5 97.4



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



#2

Dichlorodifluoromethane

Concen: 0.056 ppbv

RT: 3.05 min Scan# 83

Delta R.T. -0.00 min

Lab File: VL038101.D

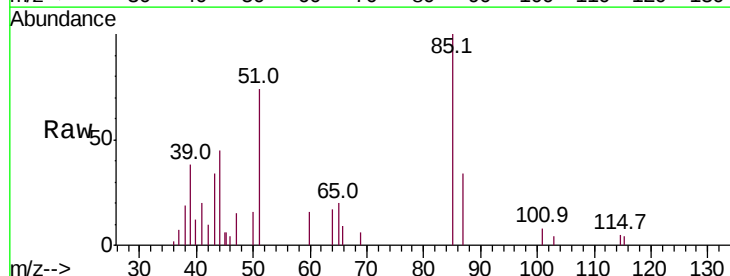
Acq: 23 Nov 2021 16:02

Tgt Ion: 85 Resp: 9232

Ion Ratio Lower Upper

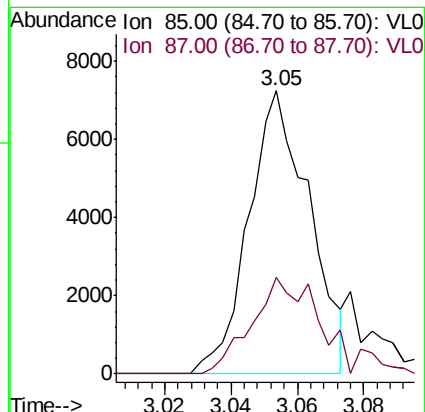
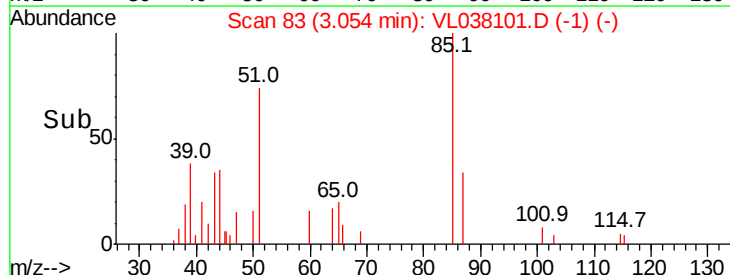
85 100

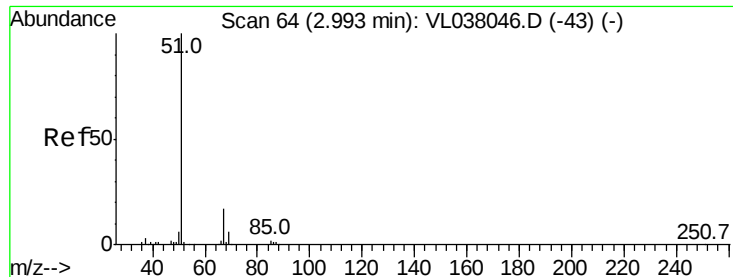
87 34.2 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.154 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

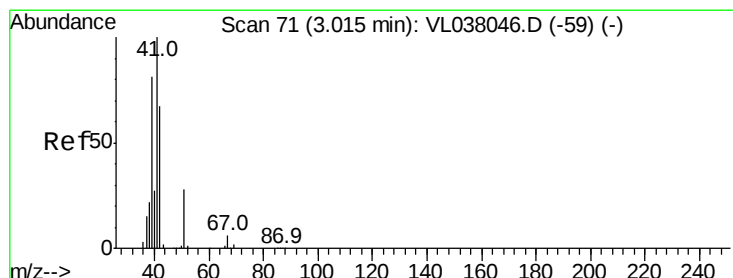
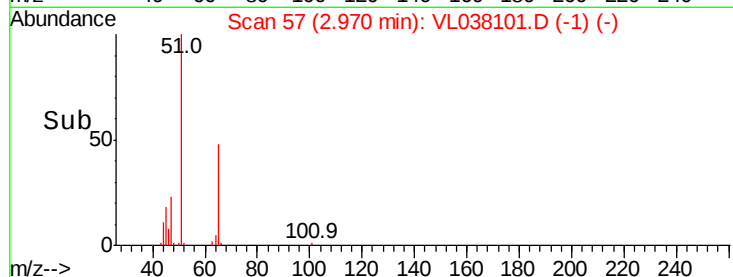
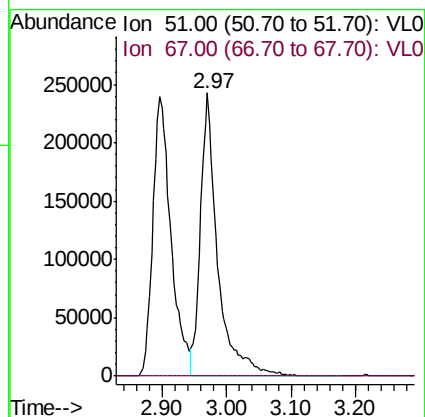
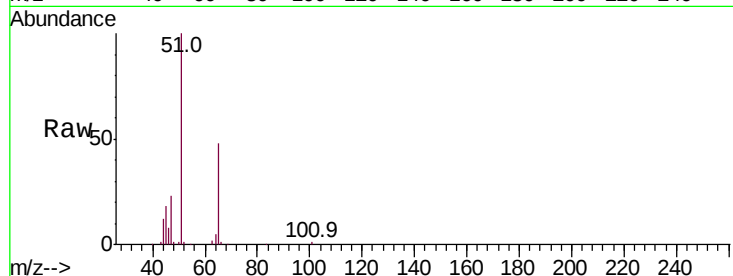
Acq: 23 Nov 2021 16:02

Tot Ion: 51 Resp: 453743

Ion Ratio Lower Upper

51 100

67 0.2 13.8 20.8#



#9

Propene

Concen: 0.173 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL038101.D

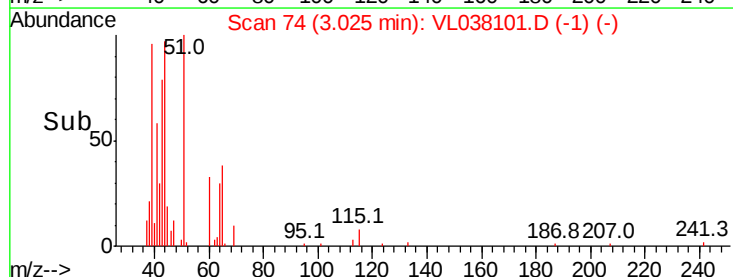
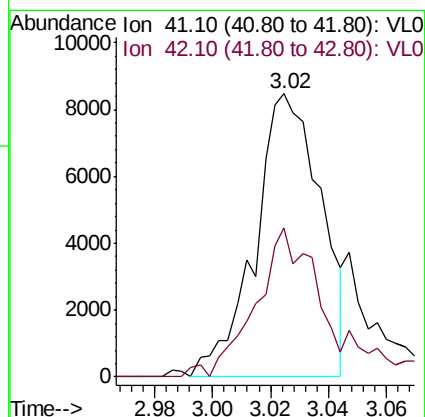
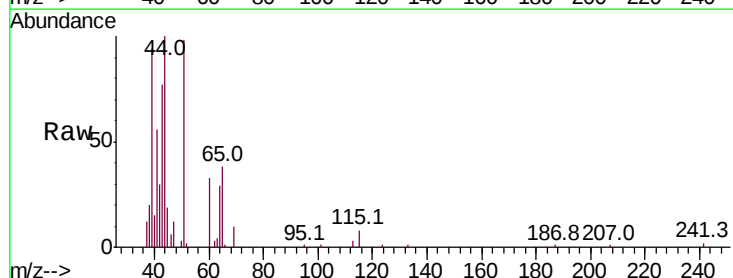
Acq: 23 Nov 2021 16:02

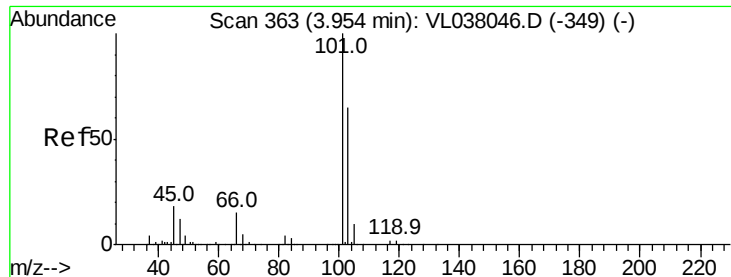
Tgt Ion: 41 Resp: 13420

Ion Ratio Lower Upper

41 100

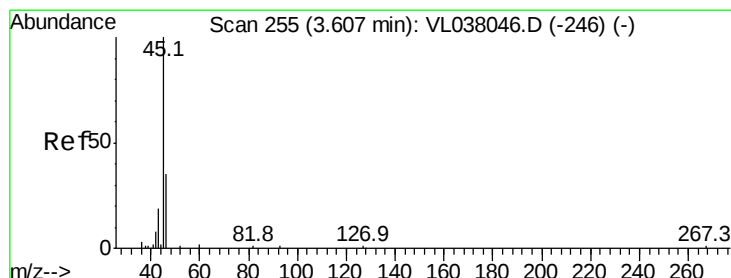
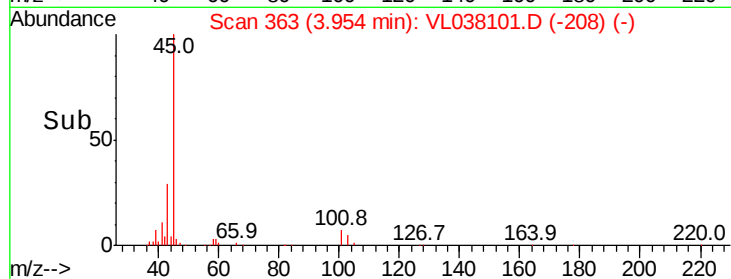
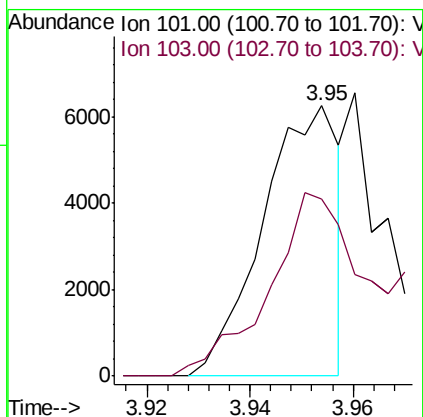
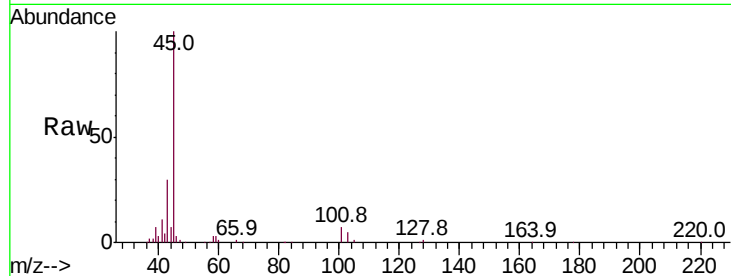
42 57.8 53.8 80.8





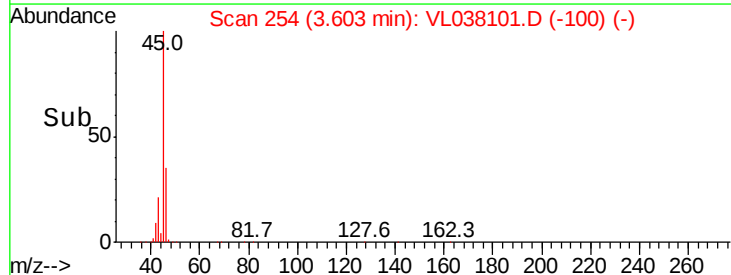
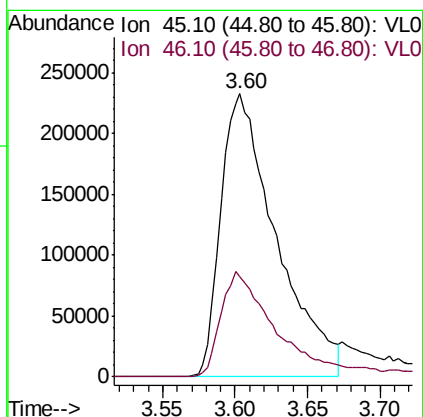
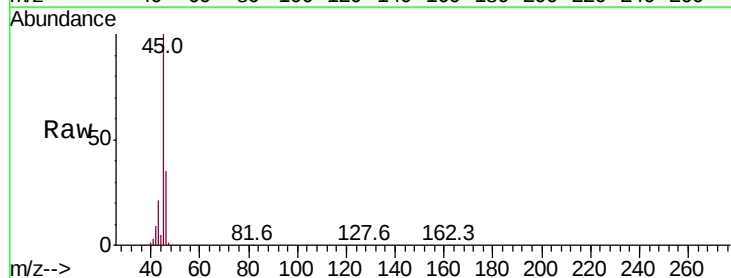
#11
 Trichlorofluoromethane
 Concen: 0.041 ppbv
 RT: 3.95
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 23 Nov 2021 16:02

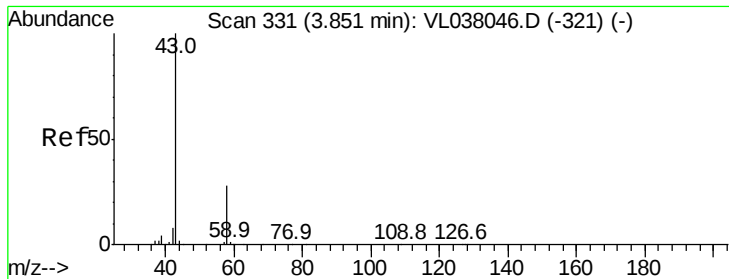
Tot Ion:101 Resp: 6430
 Ion Ratio Lower Upper
 101 100
 103 61.1 51.8 77.6



#13
 Ethanol
 Concen: 82.223 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.00 min
 Lab File: VL038101.D
 Acq: 23 Nov 2021 16:02

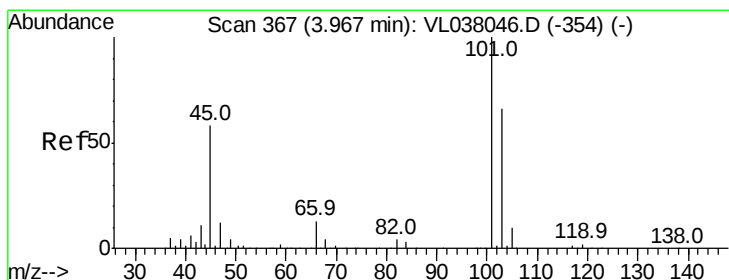
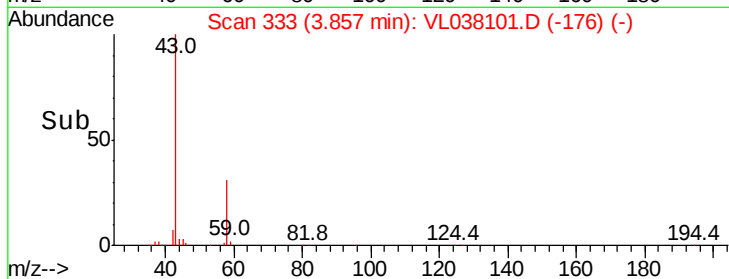
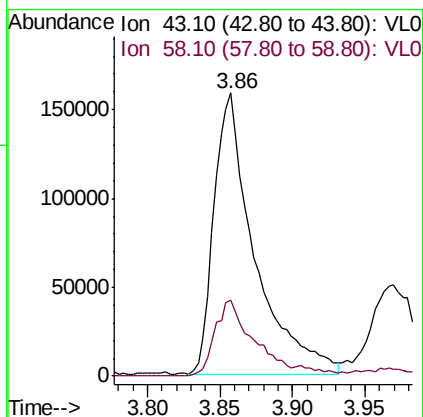
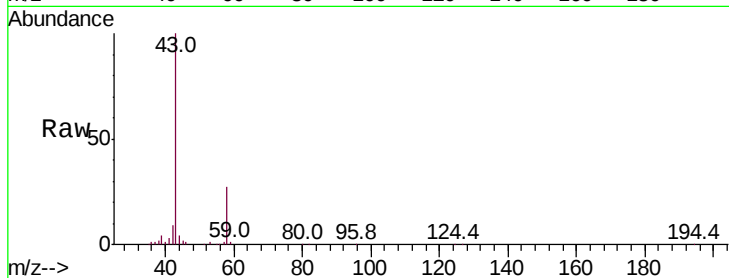
Tgt Ion: 45 Resp: 616478
 Ion Ratio Lower Upper
 45 100
 46 39.4 17.6 70.2





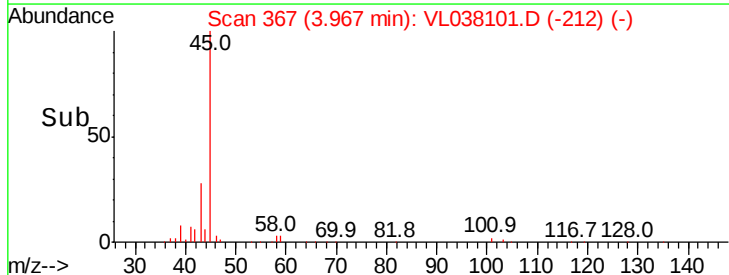
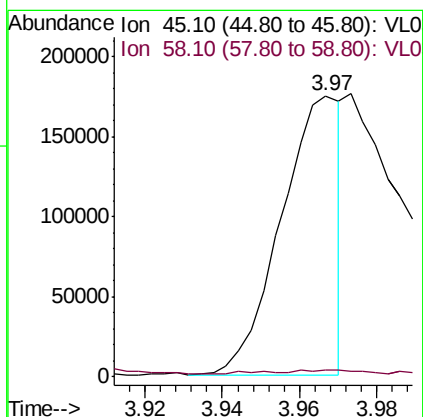
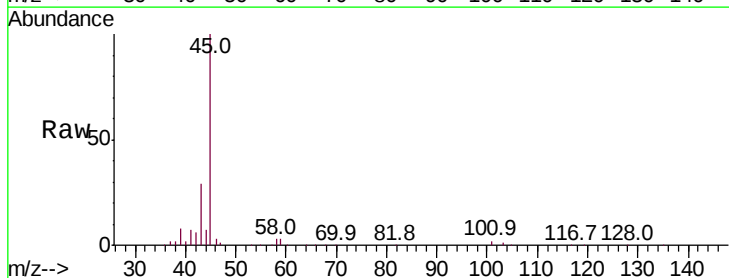
#15
Acetone
Concen: 3.512 ppbv
RT: 3.86
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Nov 2021 16:02

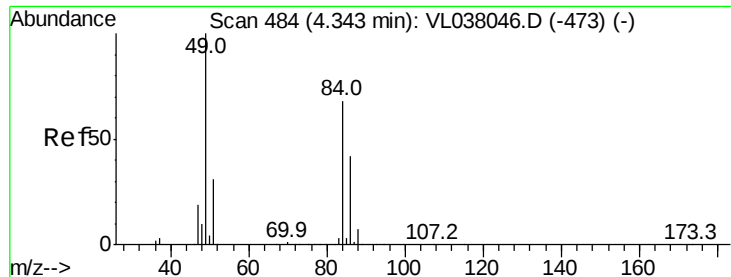
Tot Ion: 43 Resp: 305470
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6



#19
Isopropyl Alcohol
Concen: 2.952 ppbv
RT: 3.97 min Scan# 367
Delta R.T. -0.00 min
Lab File: VL038101.D
Acq: 23 Nov 2021 16:02

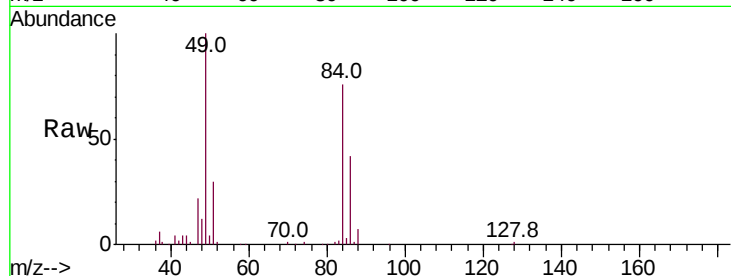
Tgt Ion: 45 Resp: 185497
Ion Ratio Lower Upper
45 100
58 7.6 1.4 2.0#



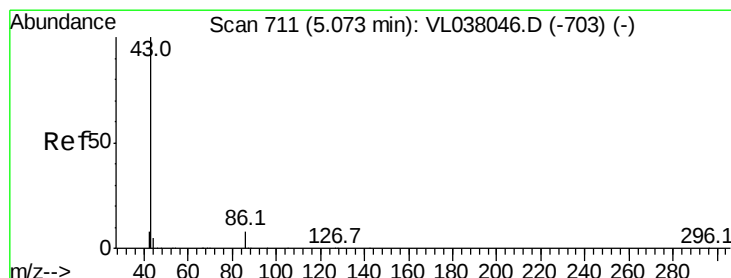
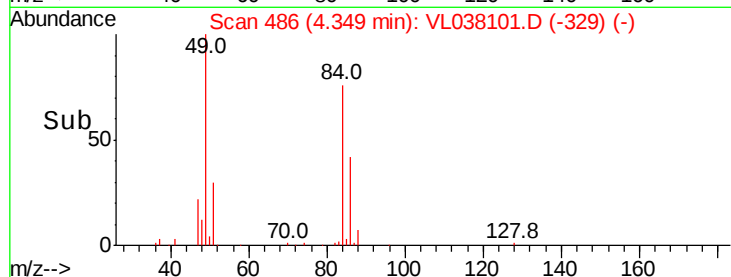
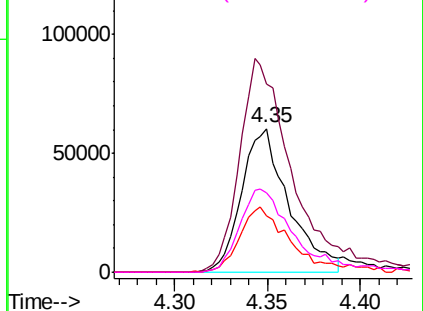


#20
Methvlene Chloride
Concen: 2.186 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Nov 2021 16:02

Tot Ion:	84	Resp:	106493
Ion	Ratio	Lower	Upper
84	100		
49	130.6	118.2	177.2
51	39.8	36.8	55.2
86	54.8	49.0	73.6

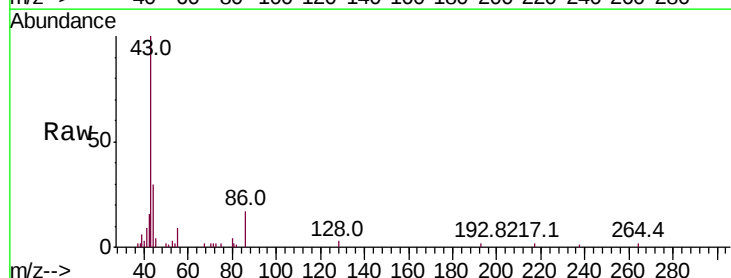


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

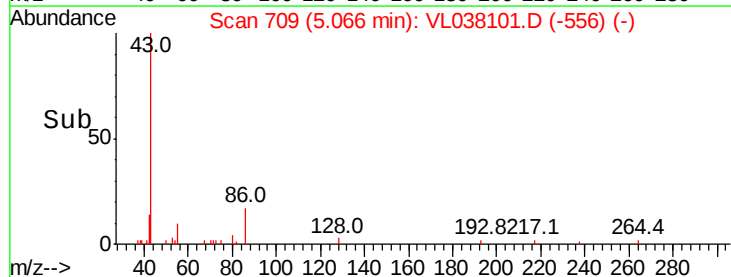
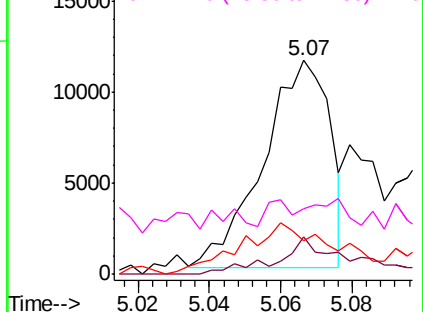


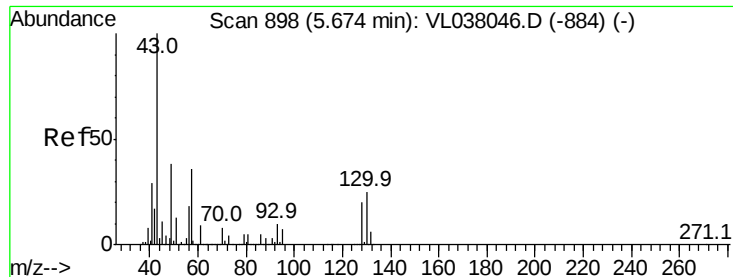
#23
Vinyl Acetate
Concen: 0.118 ppbv
RT: 5.07 min Scan# 709
Delta R.T. -0.01 min
Lab File: VL038101.D
Acq: 23 Nov 2021 16:02

Tgt Ion:	43	Resp:	14909
Ion	Ratio	Lower	Upper
43	100		
86	18.1	5.3	7.9#
42	12.6	7.0	10.6#
44	0.0	4.0	6.0#



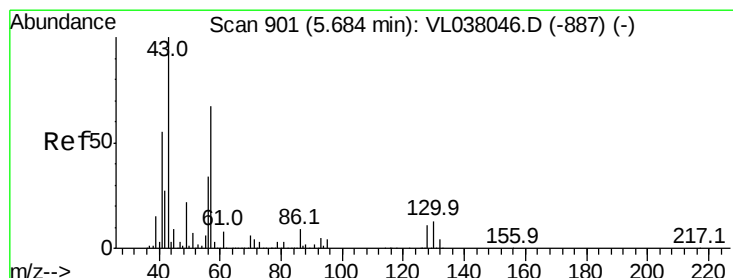
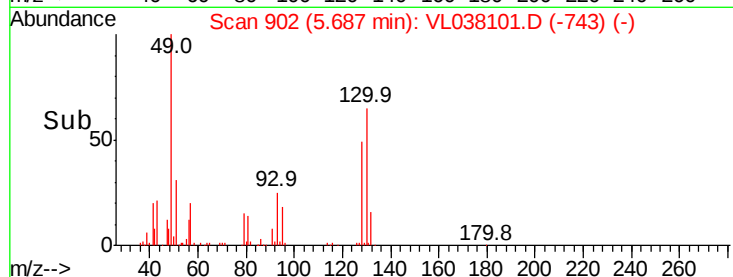
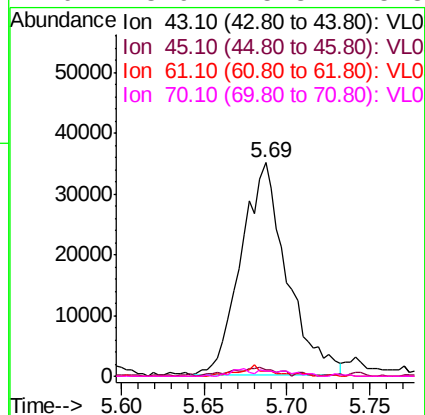
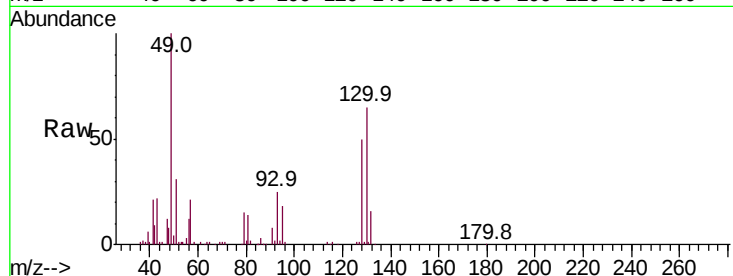
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





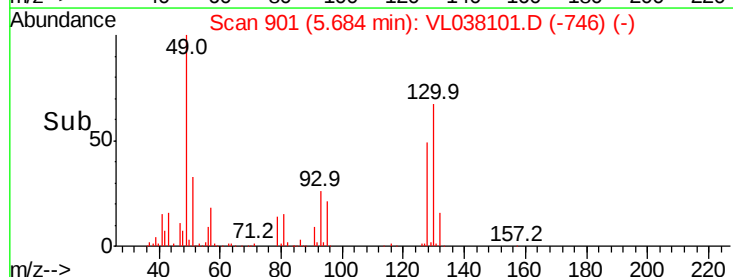
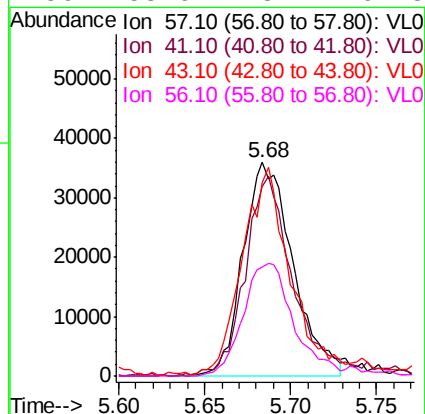
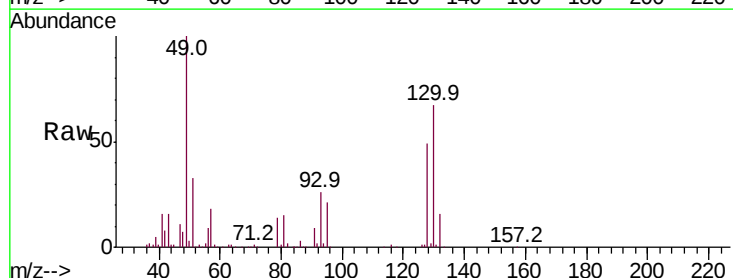
#25
Ethyl Acetate
Concen: 0.230 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Nov 2021 16:02

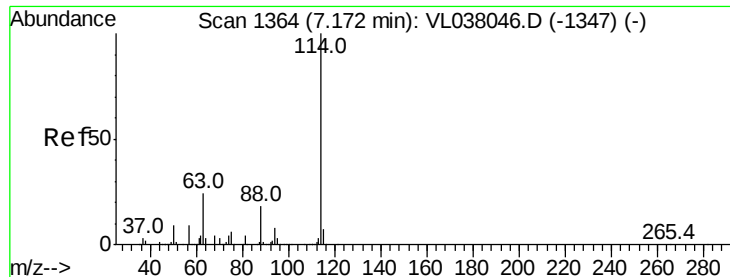
Tot Ion:	43	Resp:	66500
Ion	Ratio	Lower	Upper
43	100		
45	4.4	7.9	11.9#
61	3.8	7.8	11.6#
70	3.9	5.8	8.8#



#26
Hexane
Concen: 0.521 ppbv
RT: 5.68 min Scan# 901
Delta R.T.: -0.00 min
Lab File: VL038101.D
Acq: 23 Nov 2021 16:02

Tgt Ion:	57	Resp:	72598
Ion	Ratio	Lower	Upper
57	100		
41	93.9	71.4	107.2
43	97.5	174.6	261.8#
56	55.6	43.2	64.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 23 Nov 2021 16:02

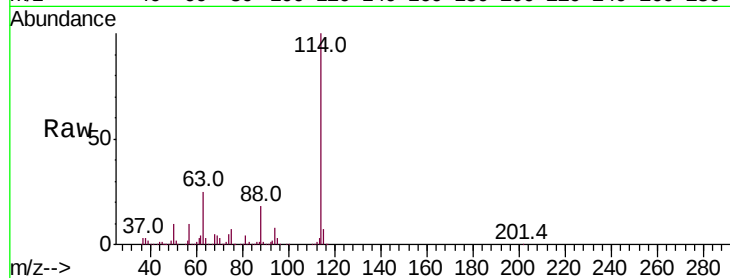
Tot Ion:114 Resp: 2752366

Ion Ratio Lower Upper

114 100

63 26.0 19.7 29.5

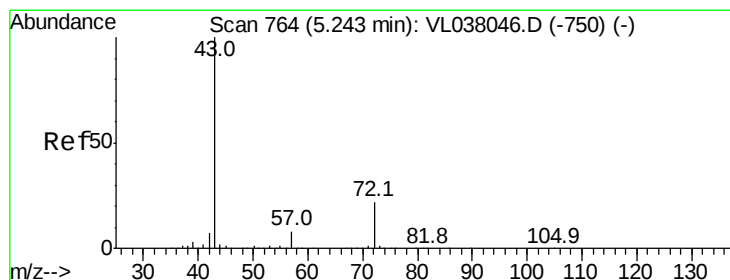
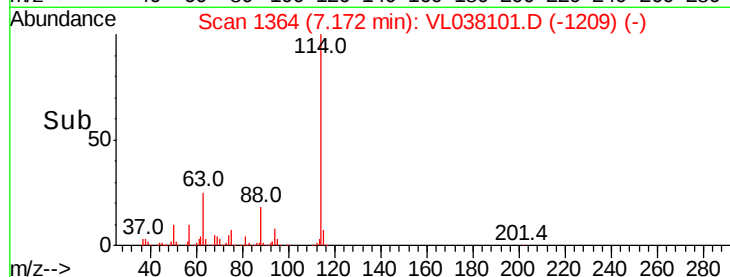
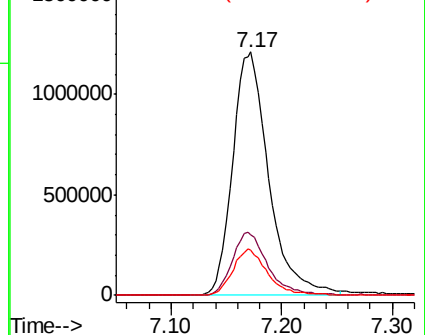
88 18.5 14.4 21.6



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.182 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.01 min

Lab File: VL038101.D

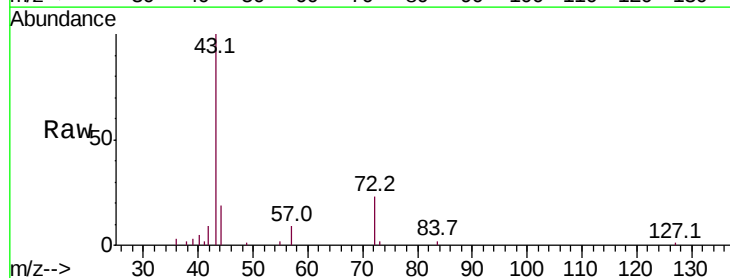
Acq: 23 Nov 2021 16:02

Tgt Ion: 43 Resp: 20198

Ion Ratio Lower Upper

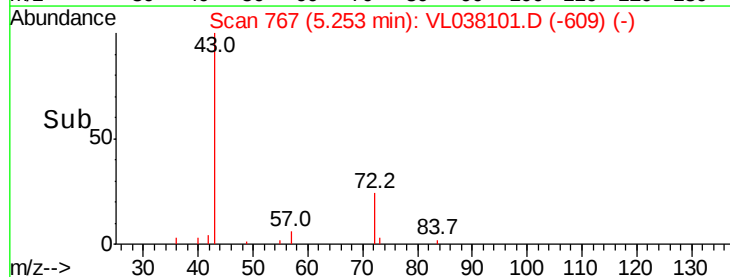
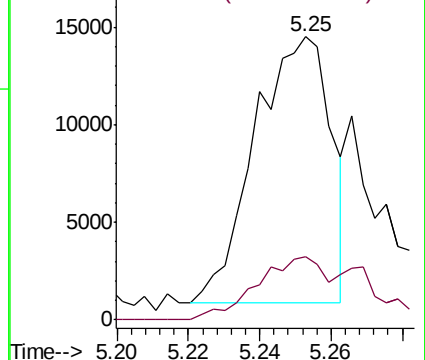
43 100

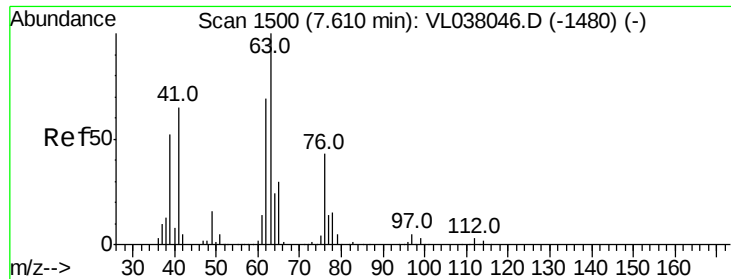
72 41.4 18.8 28.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 6.643 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 23 Nov 2021 16:02

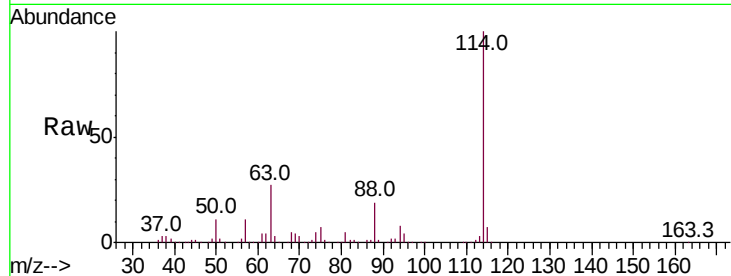
Tot Ion: 63 Resp: 699638

Ion Ratio Lower Upper

63 100

41 0.0 52.3 78.5#

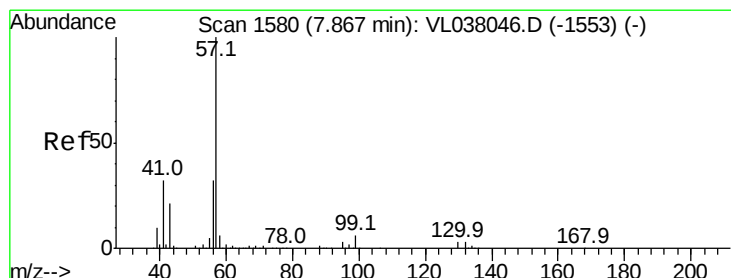
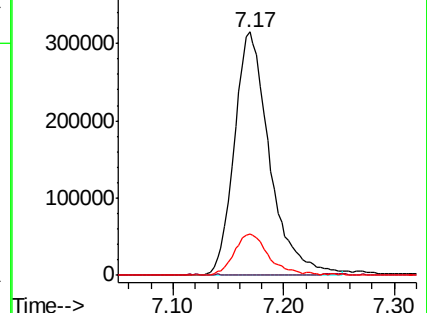
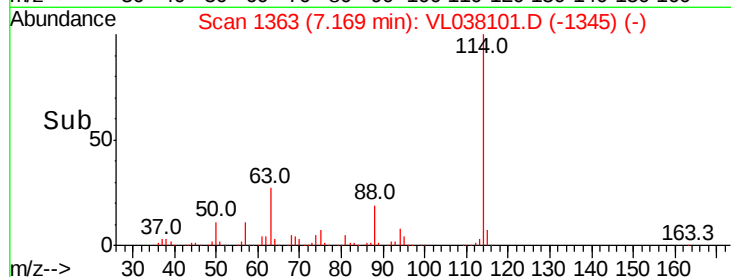
62 16.8 55.1 82.7#



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



#44

2,2,4-Trimethylpentane

Concen: 0.040 ppbv

RT: 7.86 min Scan# 1579

Delta R.T. -0.00 min

Lab File: VL038101.D

Acq: 23 Nov 2021 16:02

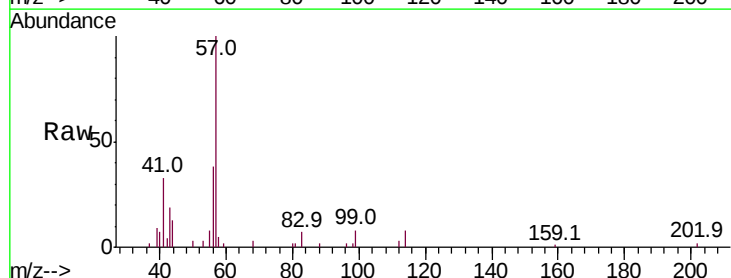
Tgt Ion: 57 Resp: 18549

Ion Ratio Lower Upper

57 100

41 43.7 25.8 38.6#

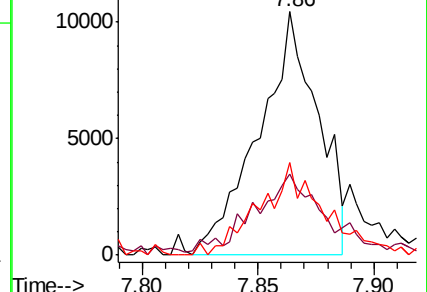
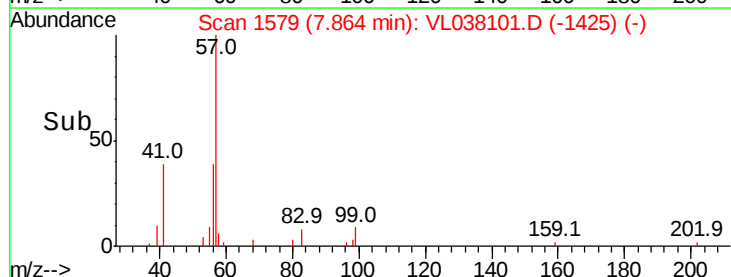
56 41.7 25.6 38.4#

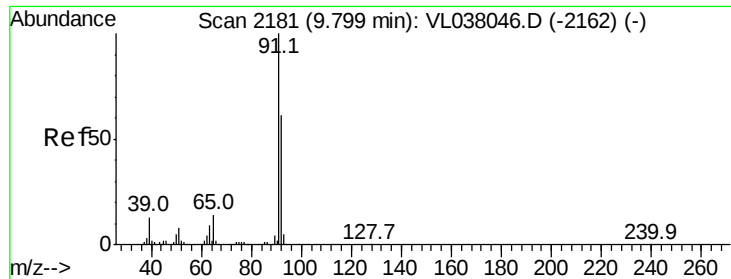


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 0.164 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

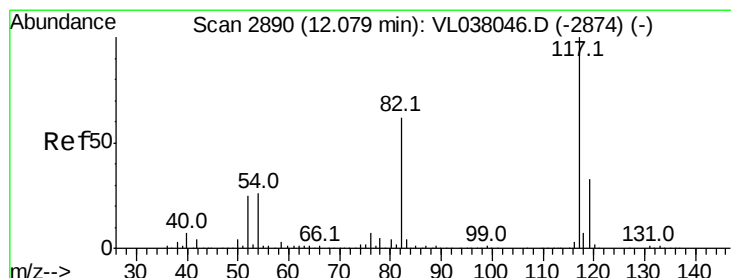
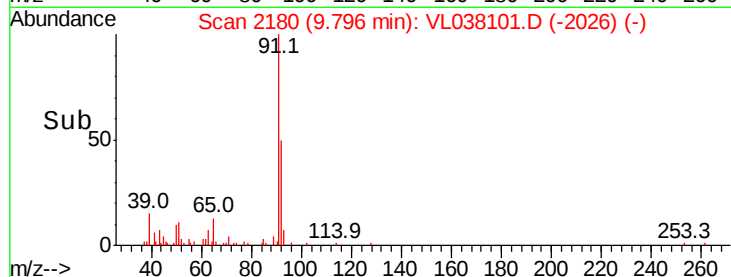
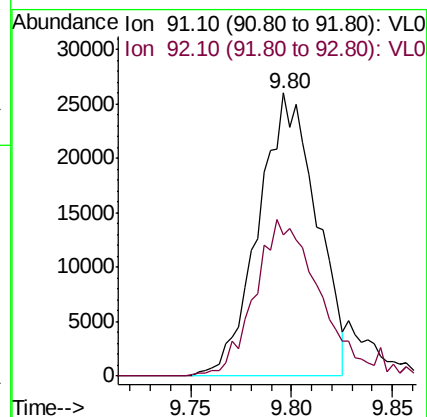
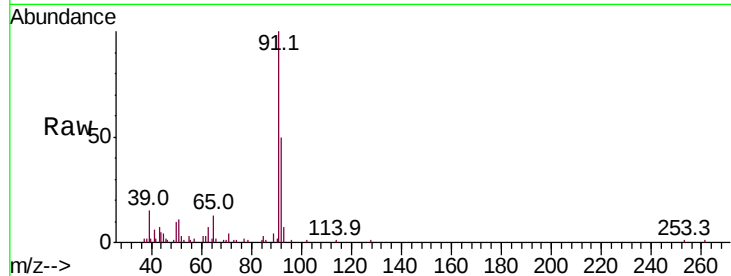
Acq: 23 Nov 2021 16:02

Tot Ion: 91 Resp: 51941

Ion Ratio Lower Upper

91 100

92 62.0 49.7 74.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.00 min

Lab File: VL038101.D

Acq: 23 Nov 2021 16:02

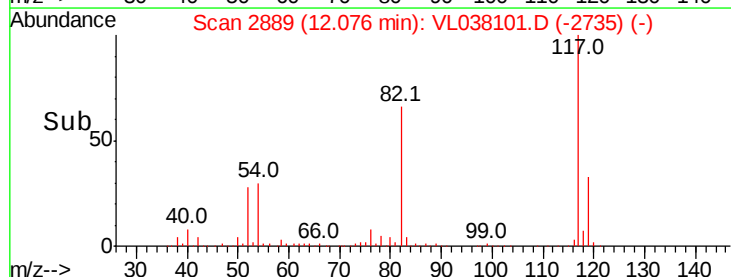
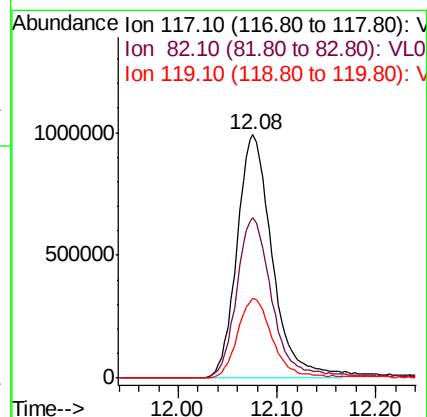
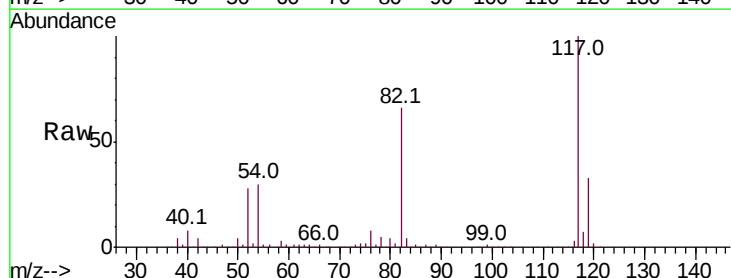
Tgt Ion: 117 Resp: 2464443

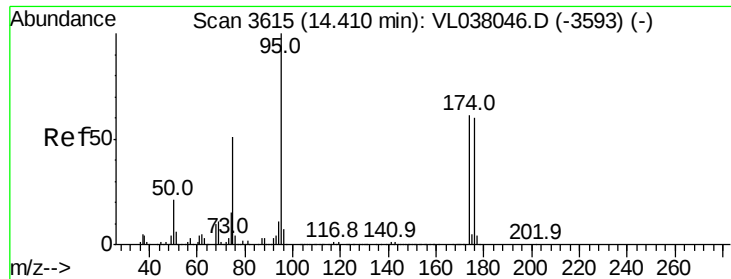
Ion Ratio Lower Upper

117 100

82 68.4 52.8 79.2

119 33.9 26.8 40.2





#68

1-Bromo-4-Fluorobenzene

Concen: 10.803 ppbv

RT: 14.41

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Nov 2021 10:02

Tot Ion: 95 Resp: 1920461

Ion Ratio Lower Upper

95 100

174 62.2 53.1 79.7

175 4.6 4.0 6.0

