

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032822\
 Data File : VL038791.D
 Acq On : 29 Mar 2022 4:16
 Operator : SY/AP
 Sample : N2136-03DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

Quant Time: Mar 29 06:14:18 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	902336	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2547207	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2243637	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	1620561	9.42	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.20%

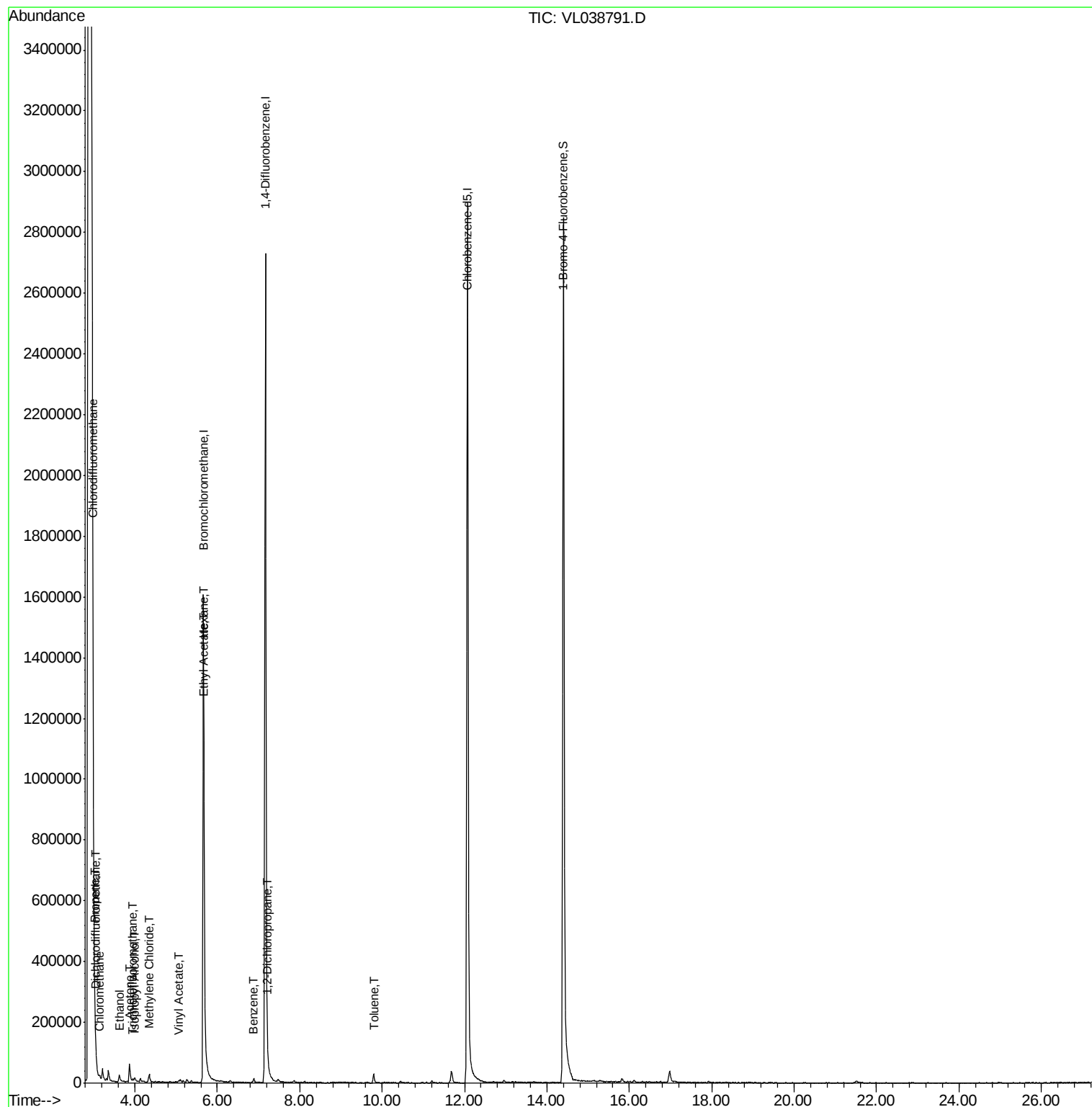
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	13369	0.110	ppbv	97
3) Chlorodifluoromethane	2.99	51	15282	0.160	ppbv #	77
4) Chloromethane	3.15	50	5323	0.102	ppbv	96
9) Propene	3.02	41	13520	0.294	ppbv	84
11) Trichlorofluoromethane	3.95	101	4338	0.041	ppbv #	76
13) Ethanol	3.61	45	25591	5.042	ppbv	83
15) Acetone	3.87	43	64958	0.834	ppbv	93
19) Isopropyl Alcohol	3.99	45	8727	0.202	ppbv #	55
20) Methylene Chloride	4.35	84	9839	0.300	ppbv #	85
23) Vinyl Acetate	5.06	43	2914	0.039	ppbv #	73
25) Ethyl Acetate	5.68	43	10425	0.053	ppbv #	87
26) Hexane	5.68	57	9386	0.107	ppbv #	57
36) Benzene	6.88	78	10535	0.054	ppbv #	93
39) 1,2-Dichloropropane	7.23	63	6227	0.081	ppbv #	24
53) Toluene	9.80	91	22717	0.108	ppbv	99

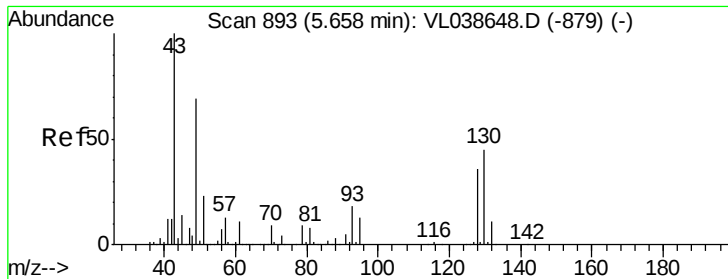
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032822\
Data File : VL038791.D
Acq On : 29 Mar 2022 4:16
Operator : SY/AP
Sample : N2136-03DL 5X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
OA1DL

Quant Time: Mar 29 06:14:18 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA1DL

Acq: 29 Mar 2022 4:10

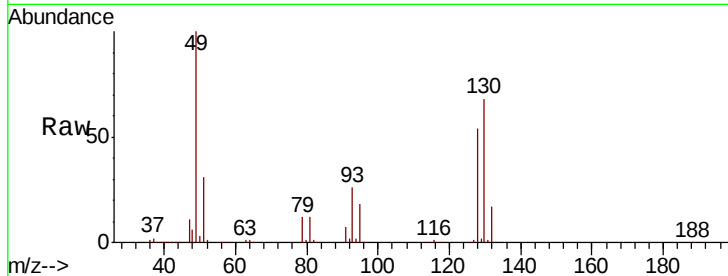
Tot Ion: 49 Resp: 902336

Ion Ratio Lower Upper

49 100

128 57.7 26.2 78.6

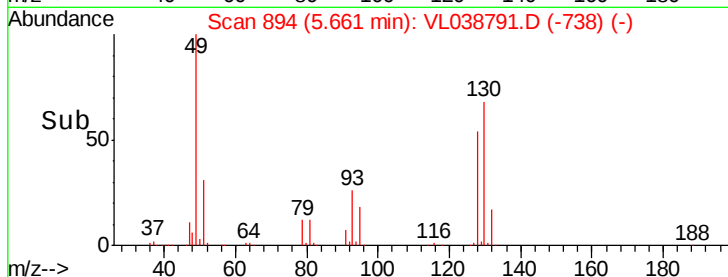
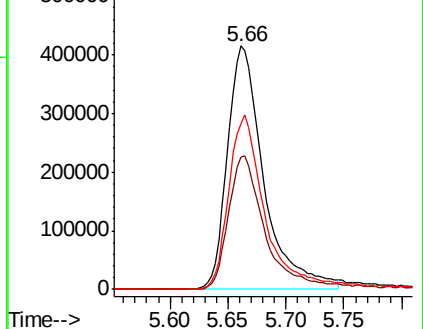
130 75.0 33.7 101.1



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



#2

Dichlorodifluoromethane

Concen: 0.110 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL038791.D

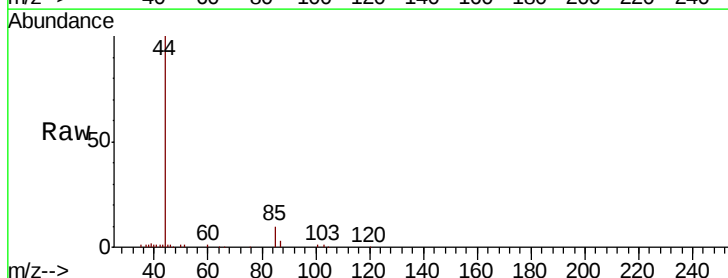
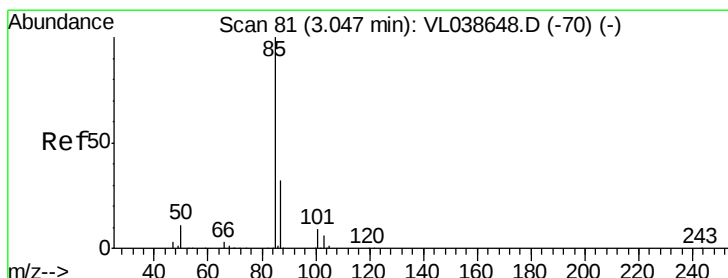
Acq: 29 Mar 2022 4:16

Tgt Ion: 85 Resp: 13369

Ion Ratio Lower Upper

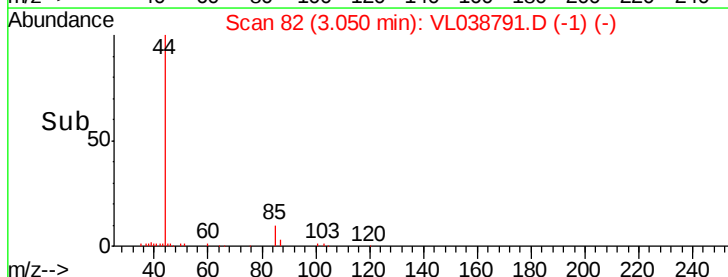
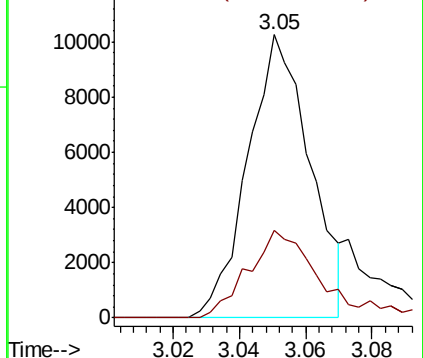
85 100

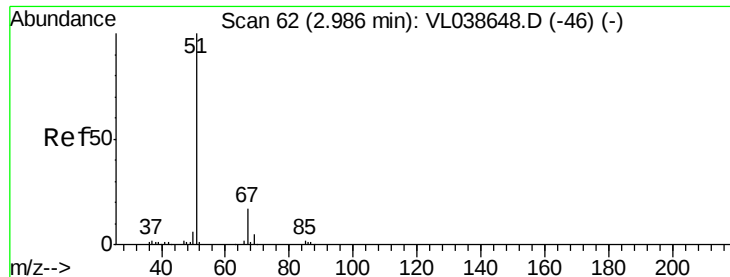
87 30.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.160 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

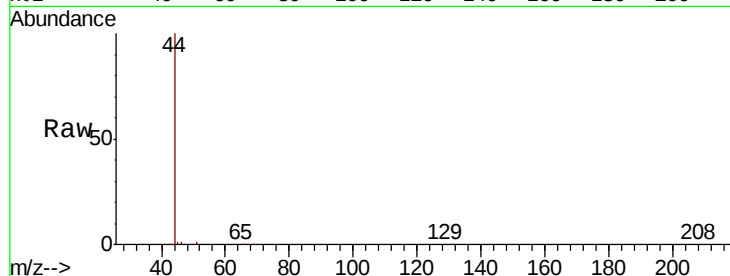
Acq: 29 Mar 2022 4:16

Tot Ion: 51 Resp: 15282

Ion Ratio Lower Upper

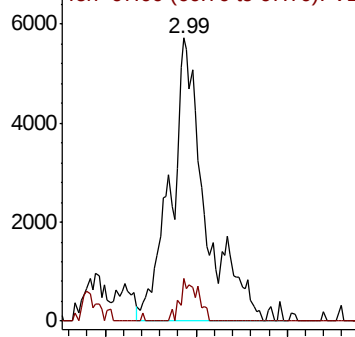
51 100

67 7.5 14.1 21.1#

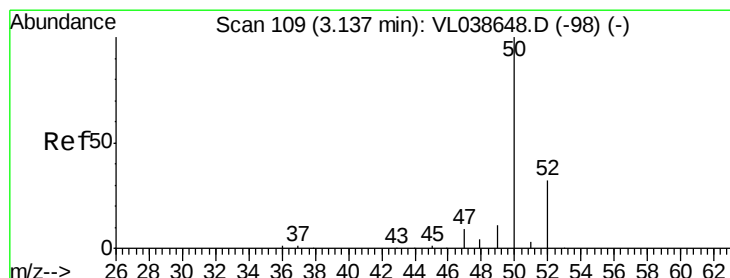
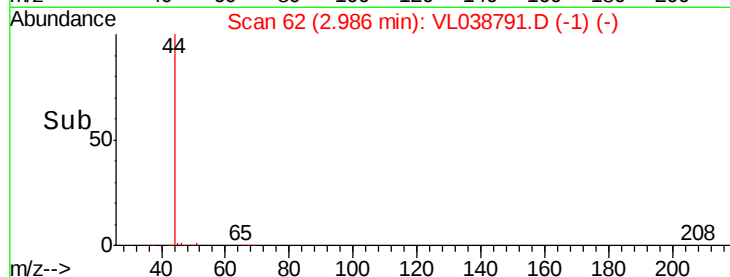


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.102 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL038791.D

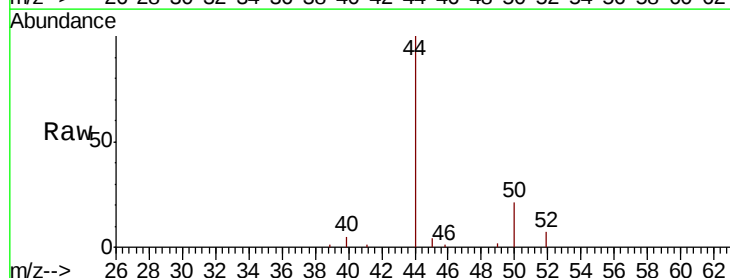
Acq: 29 Mar 2022 4:16

Tgt Ion: 50 Resp: 5323

Ion Ratio Lower Upper

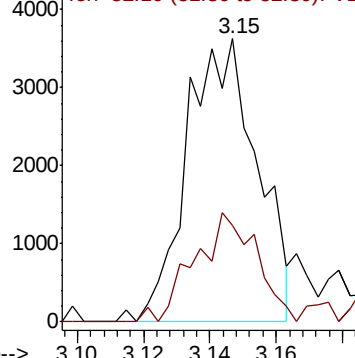
50 100

52 34.1 25.5 38.3

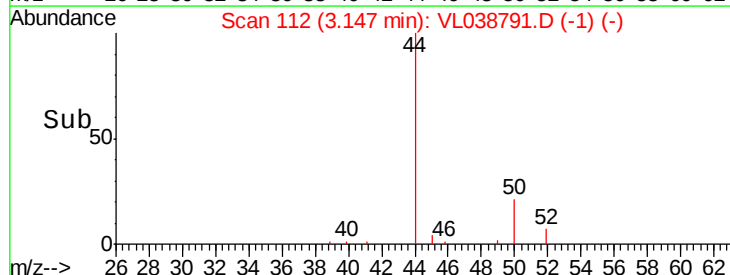


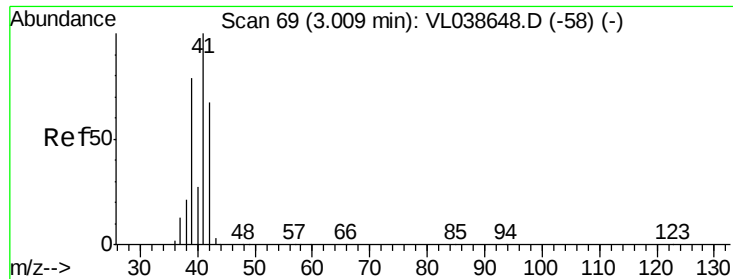
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#9

Propene

Concen: 0.294 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

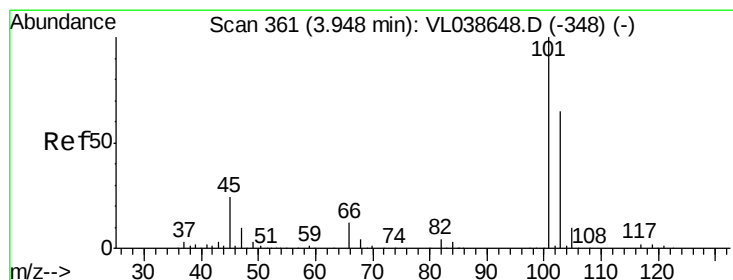
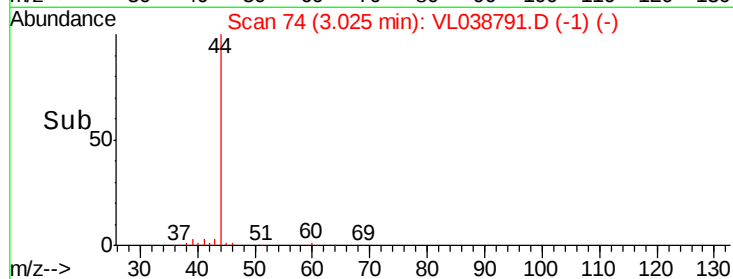
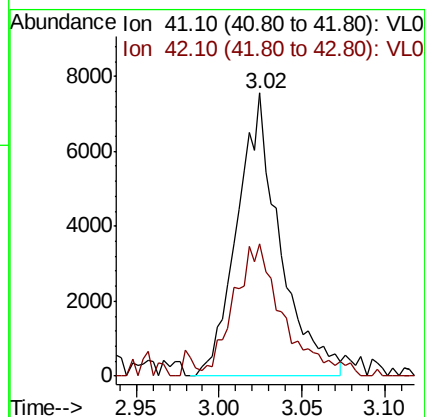
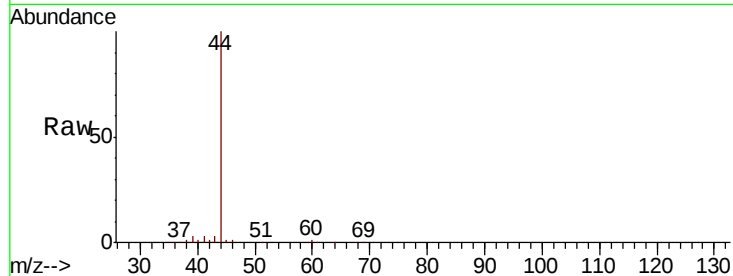
Acq: 29 Mar 2022 4:16

Tot Ion: 41 Resp: 13520

Ion Ratio Lower Upper

41 100

42 56.8 56.2 84.4



#11

Trichlorofluoromethane

Concen: 0.041 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.00 min

Lab File: VL038791.D

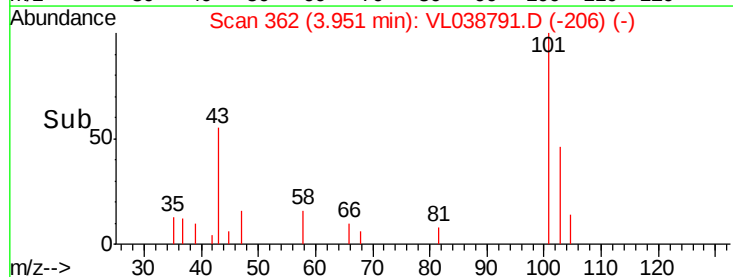
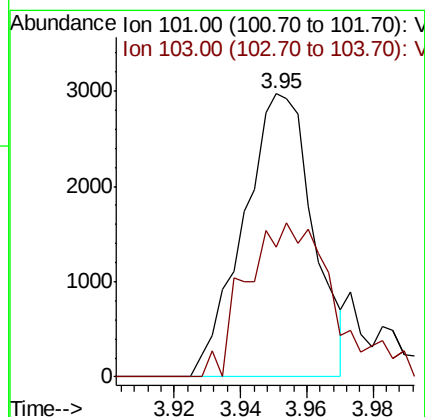
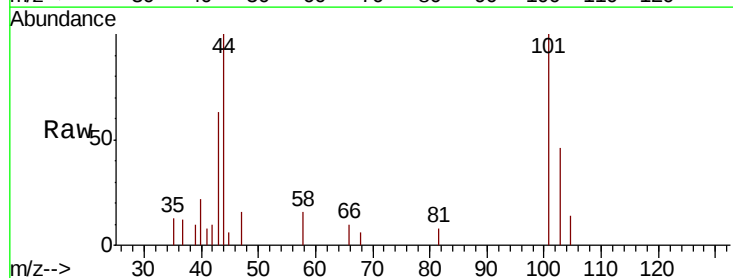
Acq: 29 Mar 2022 4:16

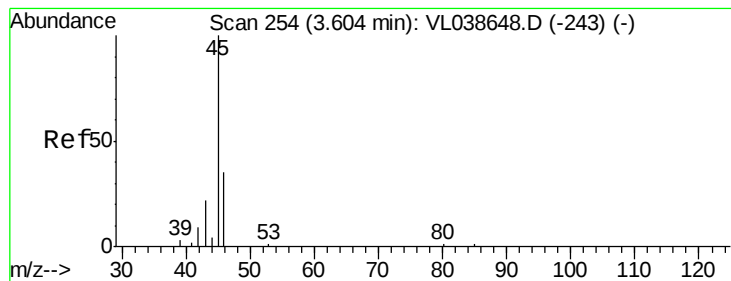
Tgt Ion: 101 Resp: 4338

Ion Ratio Lower Upper

101 100

103 45.7 51.9 77.9#





#13

Ethanol

Concen: 5.042 ppbv

RT: 3.61 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

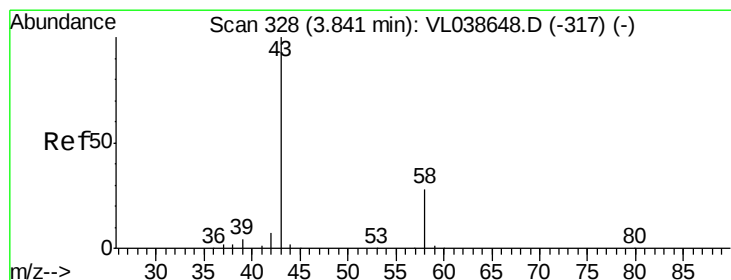
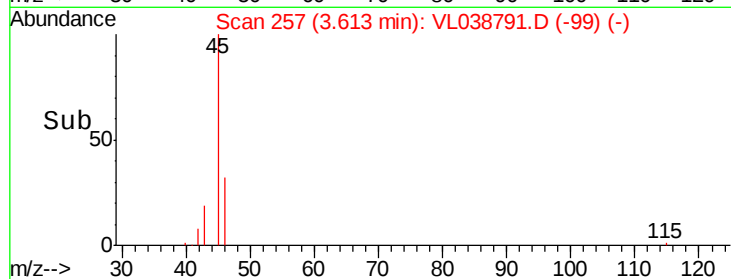
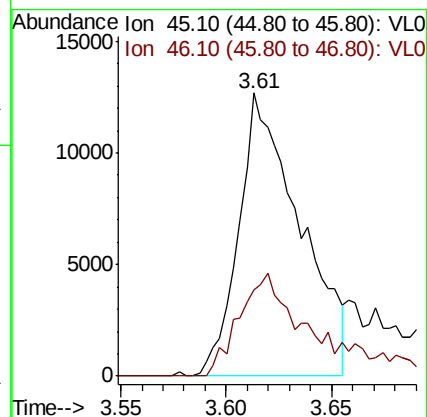
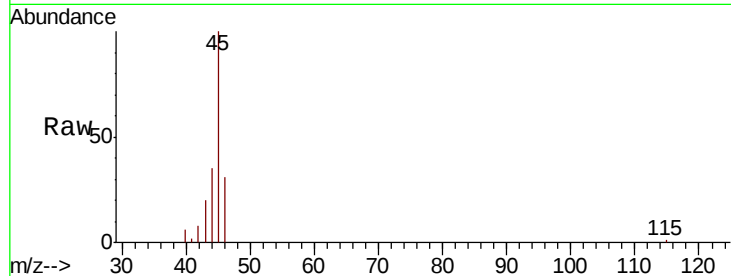
Acq: 29 Mar 2022 4:16

Tot Ion: 45 Resp: 25591

Ion Ratio Lower Upper

45 100

46 47.9 15.1 60.5



#15

Acetone

Concen: 0.834 ppbv

RT: 3.87 min Scan# 336

Delta R.T. 0.03 min

Lab File: VL038791.D

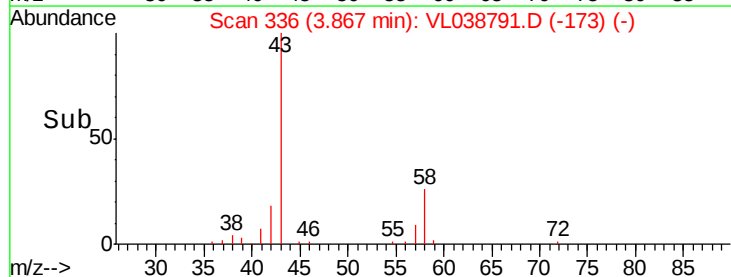
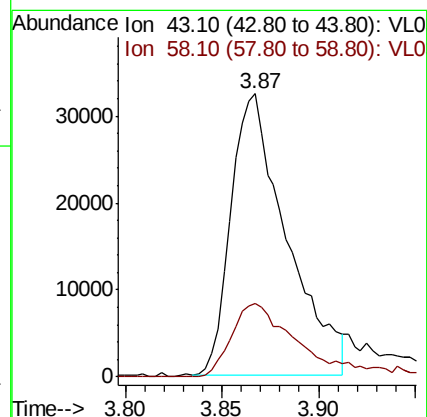
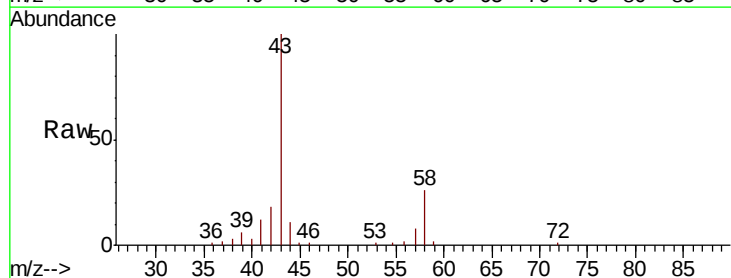
Acq: 29 Mar 2022 4:16

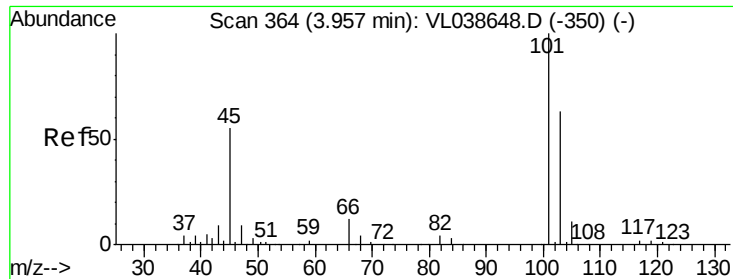
Tgt Ion: 43 Resp: 64958

Ion Ratio Lower Upper

43 100

58 33.0 23.3 34.9





#19

Isopropyl Alcohol

Concen: 0.202 ppbv

RT: 3.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA1DL

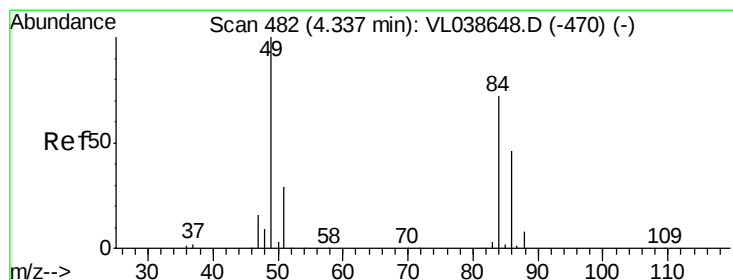
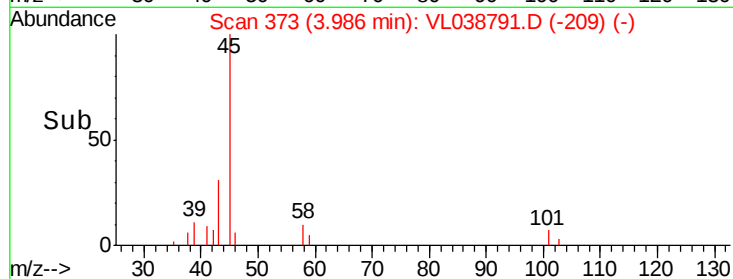
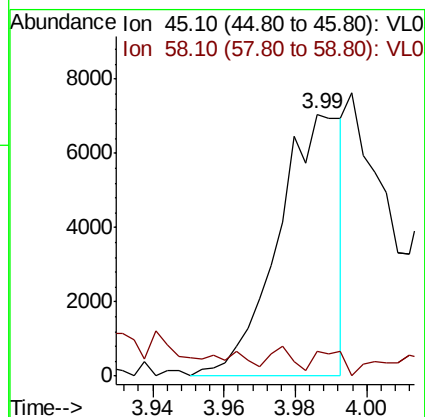
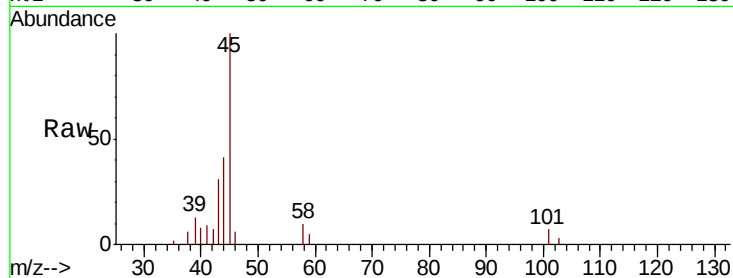
Acq: 29 Mar 2022 4:10

Tot Ion: 45 Resp: 8727

Ion Ratio Lower Upper

45 100

58 18.1 2.3 3.5#



#20

Methylene Chloride

Concen: 0.300 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL038791.D

Acq: 29 Mar 2022 4:16

Tgt Ion: 84 Resp: 9839

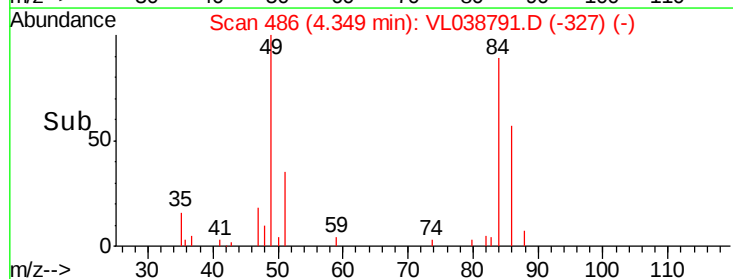
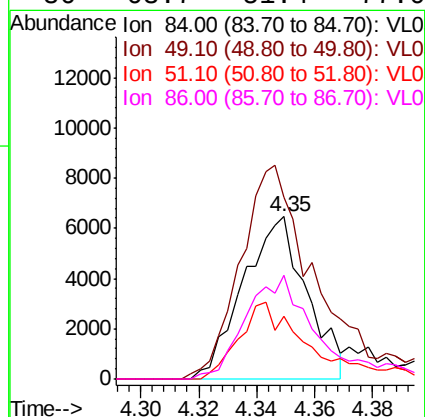
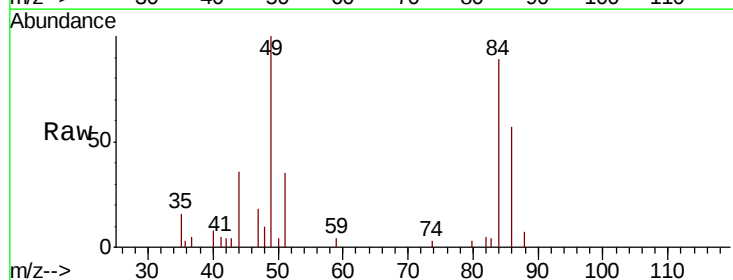
Ion Ratio Lower Upper

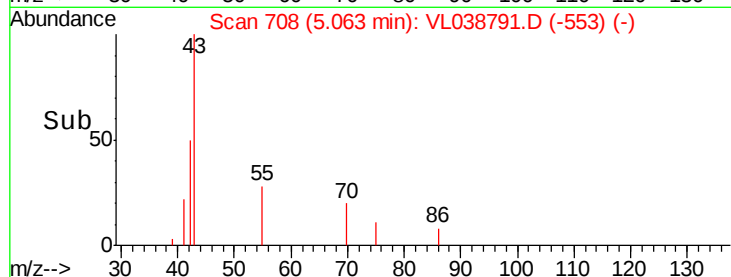
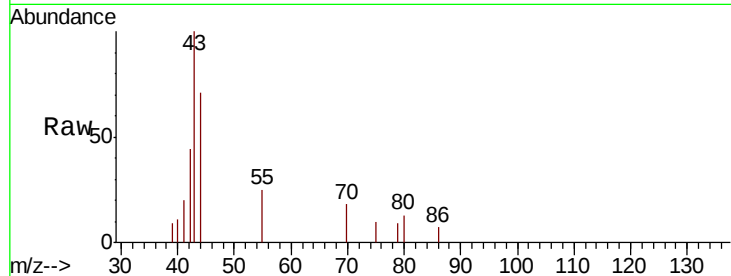
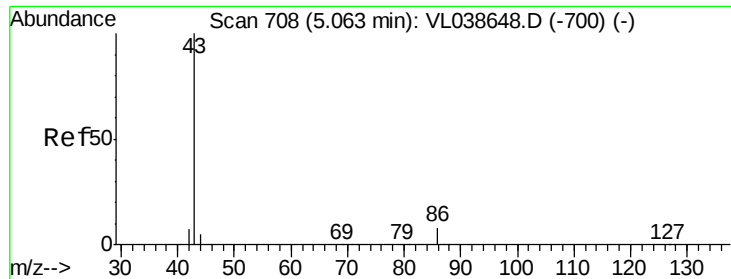
84 100

49 108.9 111.2 166.8#

51 38.9 32.8 49.2

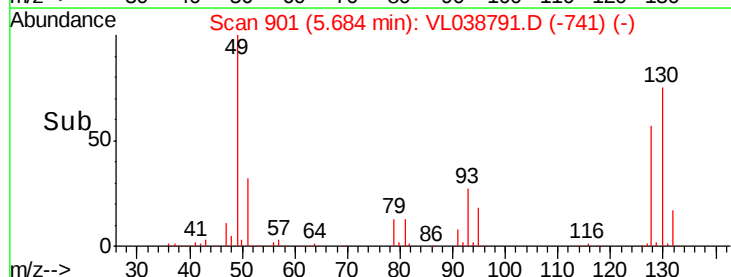
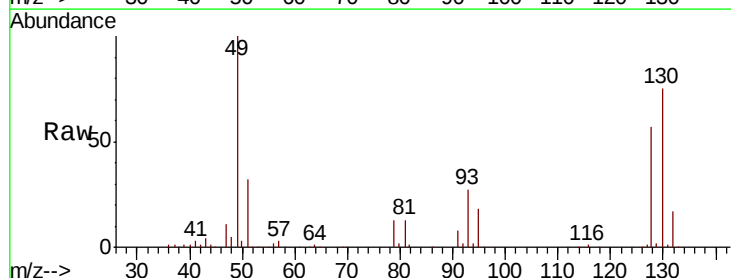
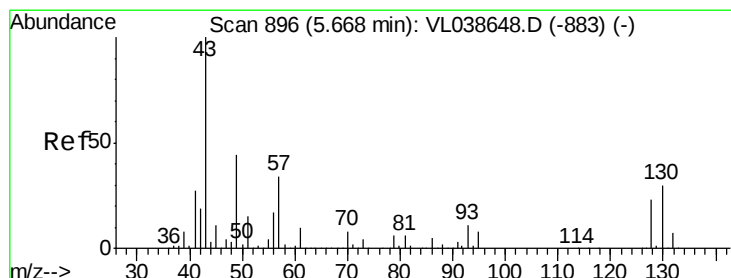
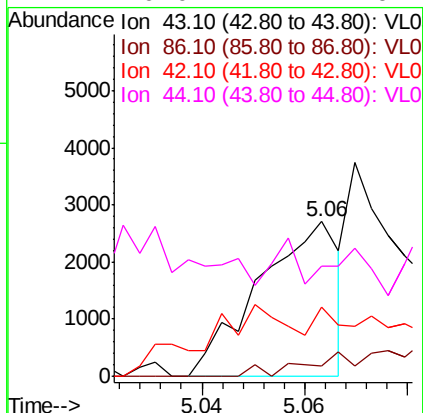
86 63.7 51.4 77.0





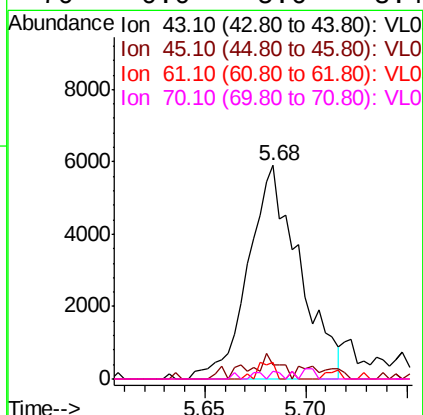
#23
 Vinyl Acetate
 Concen: 0.039 ppbv
 RT: 5.06
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 29 Mar 2022 4:10

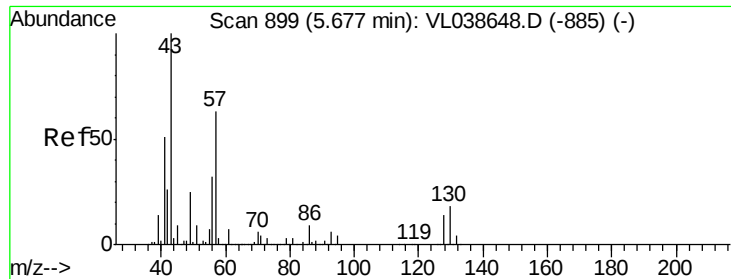
Tot Ion: 43 Resp: 2914
 Ion Ratio Lower Upper
 43 100
 86 6.8 5.6 8.4
 42 28.2 6.8 10.2#
 44 0.0 4.2 6.2#



#25
 Ethyl Acetate
 Concen: 0.053 ppbv
 RT: 5.68 min Scan# 901
 Delta R.T. 0.02 min
 Lab File: VL038791.D
 Acq: 29 Mar 2022 4:16

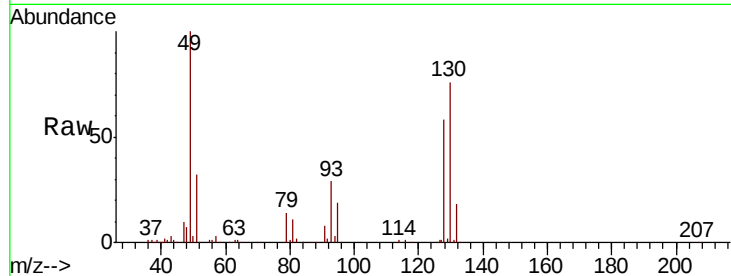
Tgt Ion: 43 Resp: 10425
 Ion Ratio Lower Upper
 43 100
 45 11.2 8.2 12.4
 61 3.1 8.3 12.5#
 70 0.0 5.6 8.4#



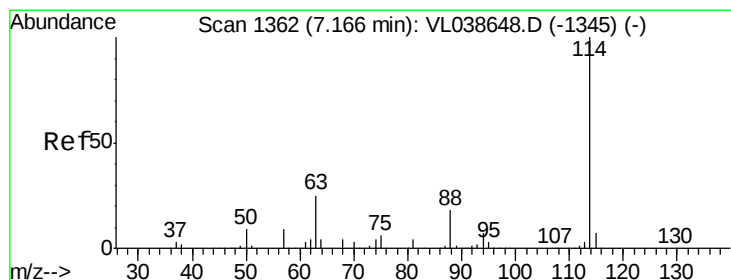
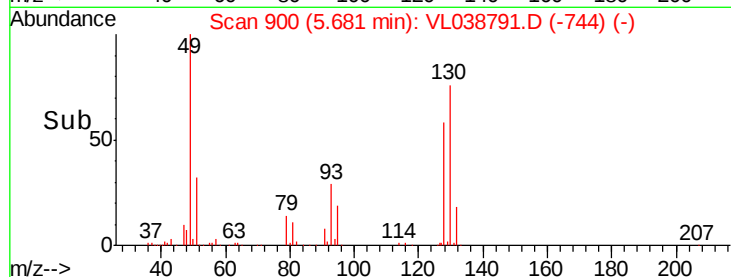
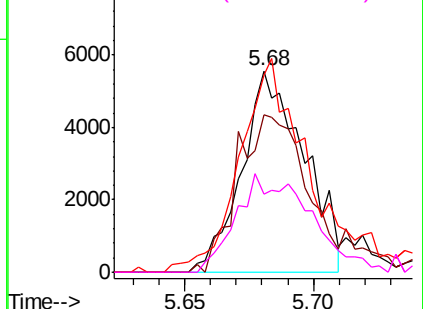


#26
Hexane
Concen: 0.107 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 29 Mar 2022 4:10

Tot Ion: 57 Resp: 9386
Ion Ratio Lower Upper
57 100
41 96.3 67.0 100.4
43 128.4 184.2 276.2#
56 59.7 42.6 64.0

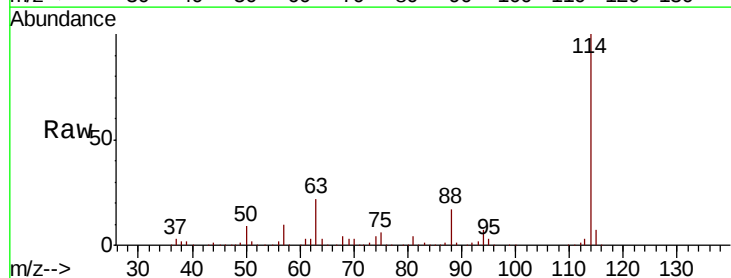


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

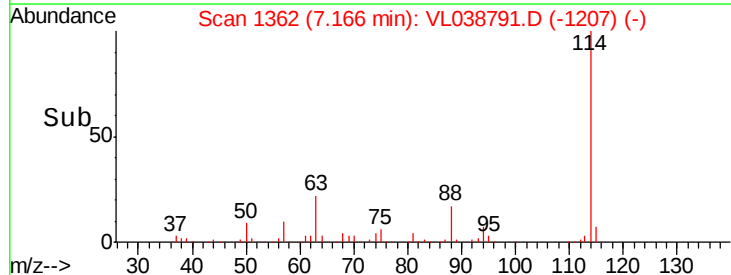
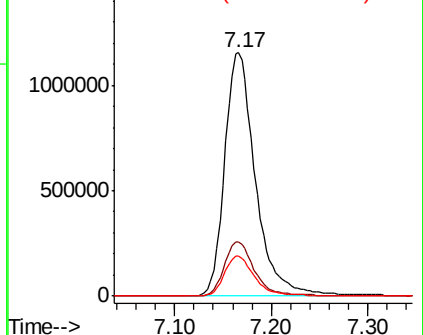


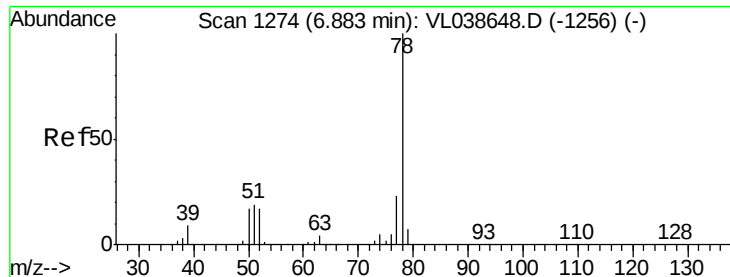
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.00 min
Lab File: VL038791.D
Acq: 29 Mar 2022 4:16

Tgt Ion: 114 Resp: 2547207
Ion Ratio Lower Upper
114 100
63 22.5 19.4 29.0
88 16.5 13.9 20.9



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





#36

Benzene

Concen: 0.054 ppbv

RT: 6.88 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA1DL

Acq: 29 Mar 2022 4:16

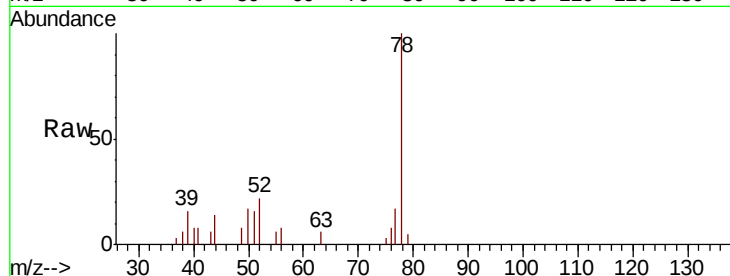
Tot Ion: 78 Resp: 10535

Ion Ratio Lower Upper

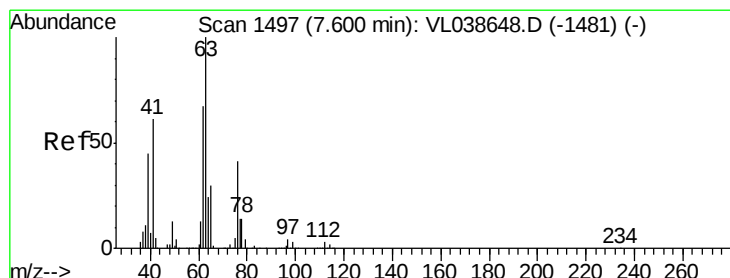
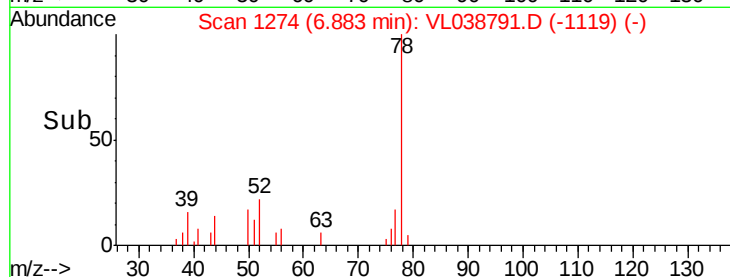
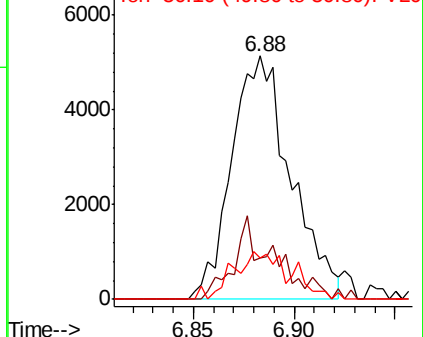
78 100

77 17.0 18.1 27.1#

50 16.8 13.6 20.4



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



#39

1,2-Dichloropropane

Concen: 0.081 ppbv

RT: 7.23 min Scan# 1381

Delta R.T. -0.37 min

Lab File: VL038791.D

Acq: 29 Mar 2022 4:16

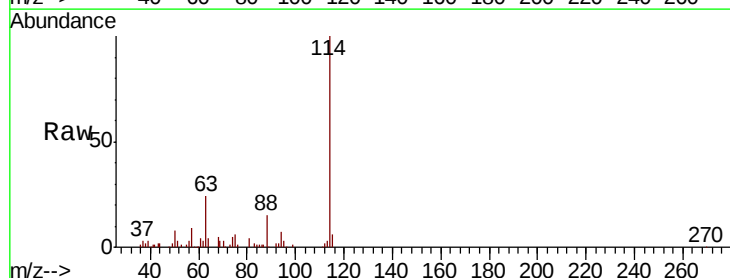
Tgt Ion: 63 Resp: 6227

Ion Ratio Lower Upper

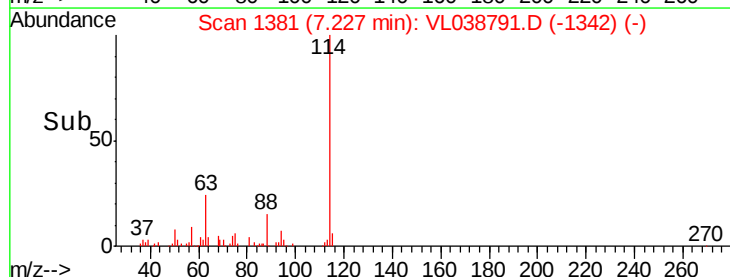
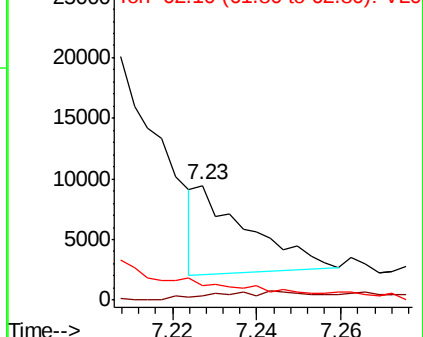
63 100

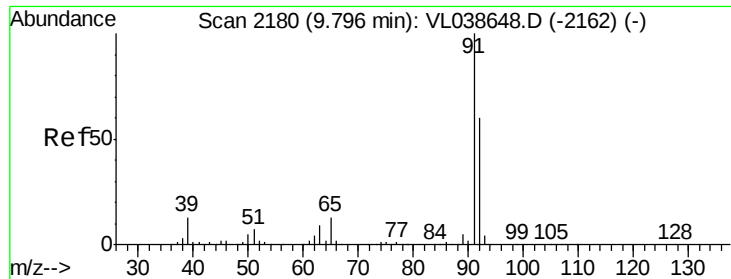
41 1.1 49.0 73.6#

62 8.3 53.9 80.9#



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





#53

Toluene

Concen: 0.108 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

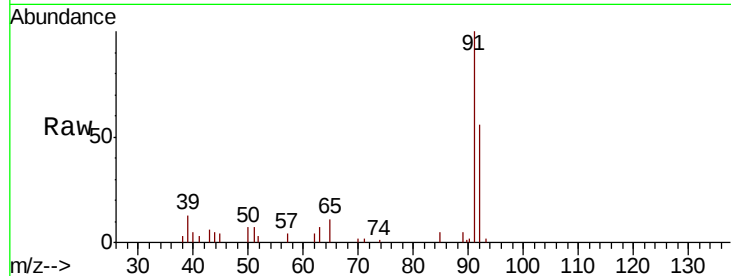
Acq: 29 Mar 2022 4:16

Tot Ion: 91 Resp: 22717

Ion Ratio Lower Upper

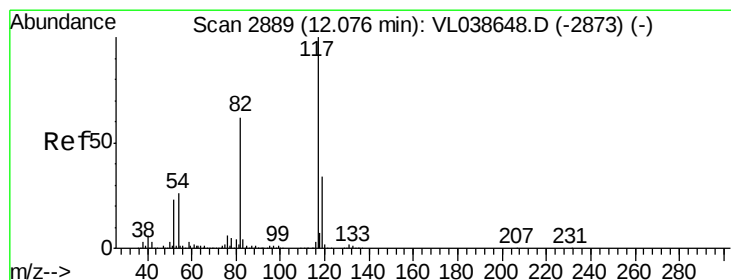
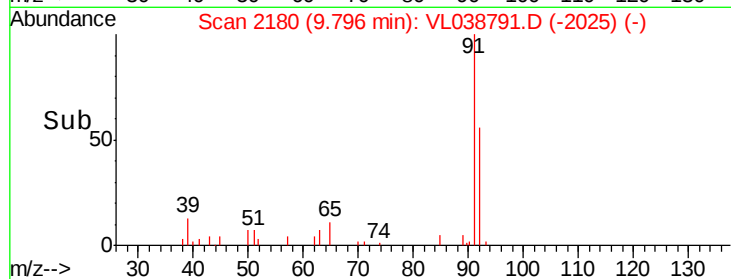
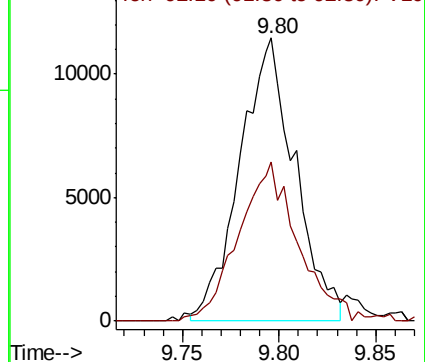
91 100

92 61.4 48.7 73.1



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: 12.07 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VL038791.D

Acq: 29 Mar 2022 4:16

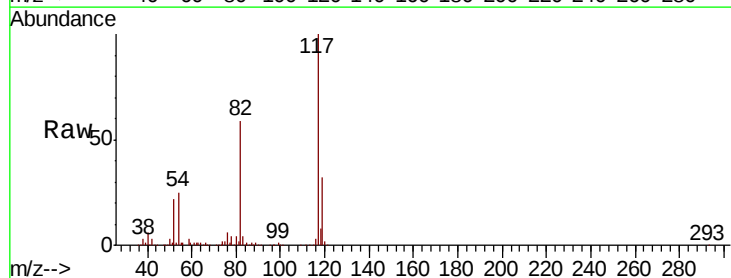
Tgt Ion: 117 Resp: 2243637

Ion Ratio Lower Upper

117 100

82 61.7 51.6 77.4

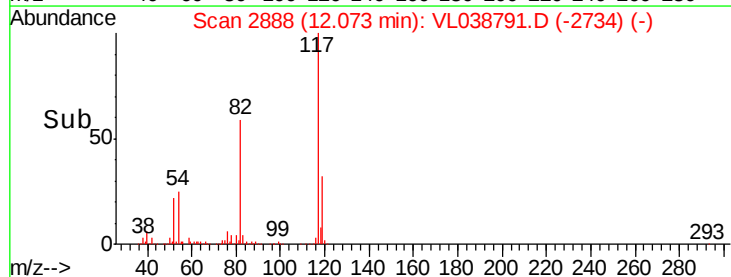
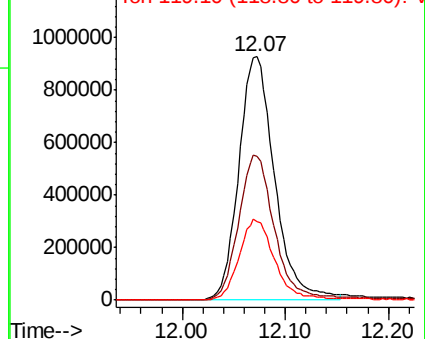
119 34.0 26.9 40.3

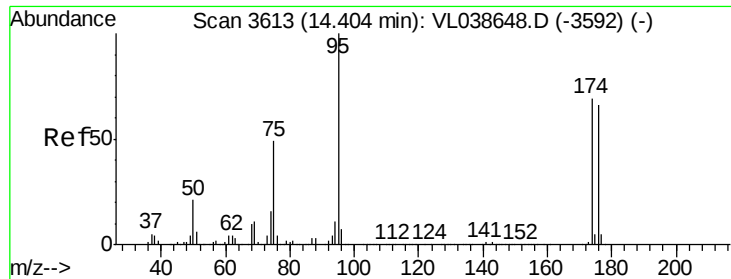


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.421 ppbv
 RT: 14.40
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 29 Mar 2022 4:10

Tot Ion: 95 Resp: 1620561
 Ion Ratio Lower Upper
 95 100
 174 75.7 56.1 84.1
 175 5.6 4.2 6.2

