

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032122\
 Data File : VL038666.D
 Acq On : 22 Mar 2022 1:19
 Operator : SY/AP
 Sample : N1964-10DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 COP80DL

Quant Time: Mar 22 03:52:11 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	956671	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2469688	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2176582	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1595518	9.56	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.60%

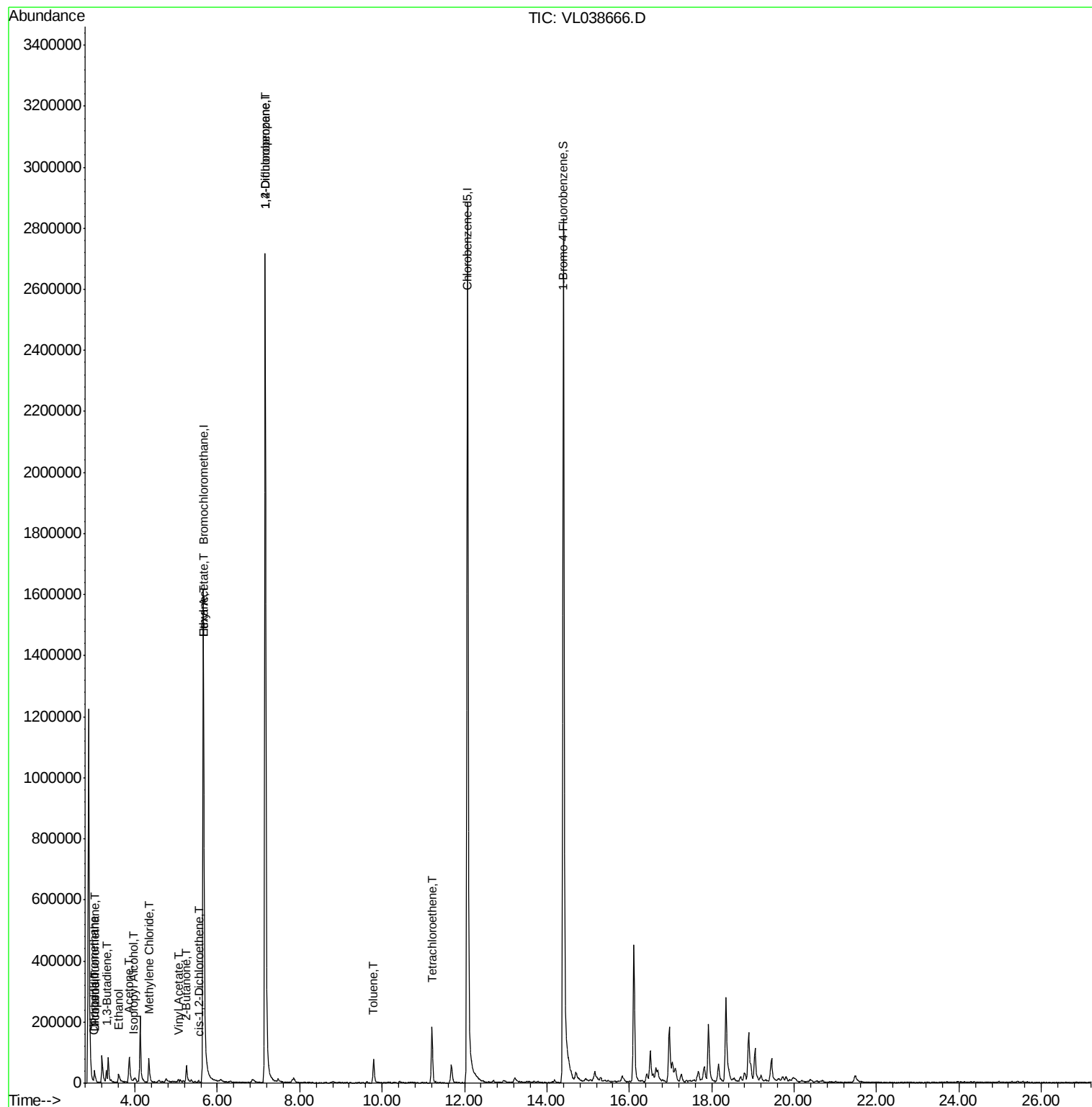
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	2755	0.02	ppbv	99
3) Chlorodifluoromethane	2.99	51	4790	0.05	ppbv #	80
9) Propene	3.01	41	5980	0.12	ppbv #	15
13) Ethanol	3.61	45	15744	2.93	ppbv #	4
15) Acetone	3.85	43	88218	1.07	ppbv	99
16) 1,3-Butadiene	3.30	39	10364	0.22	ppbv #	18
19) Isopropyl Alcohol	3.97	45	3407	0.07	ppbv #	91
20) Methylene Chloride	4.34	84	32905	0.95	ppbv	97
23) Vinyl Acetate	5.05	43	1726	0.02	ppbv #	1
25) Ethyl Acetate	5.68	43	15836	0.08	ppbv #	89
26) Hexane	5.68	57	16450	0.18	ppbv #	51
31) cis-1,2-Dichloroethene	5.54	61	2192	0.03	ppbv #	74
34) 2-Butanone	5.25	43	74907	0.77	ppbv	93
39) 1,2-Dichloropropane	7.17	63	578227	7.76	ppbv #	28
52) Tetrachloroethene	11.21	164	49245	0.71	ppbv	97
53) Toluene	9.80	91	63022	0.31	ppbv	100

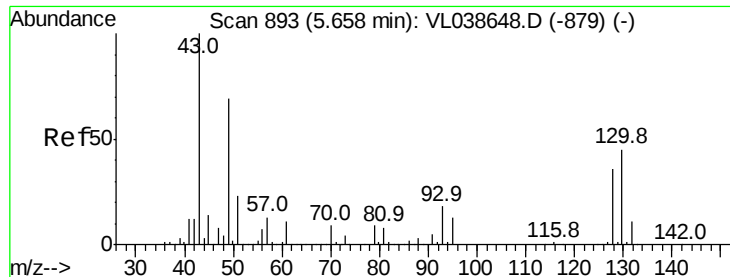
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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COP80DL

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QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: COP80DL

Acq: 22 Mar 2022 1:19

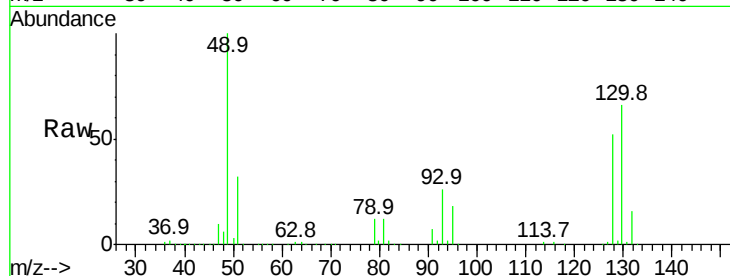
Tgt Ion: 49 Resp: 956671

Ion Ratio Lower Upper

49 100

128 53.1 26.2 78.6

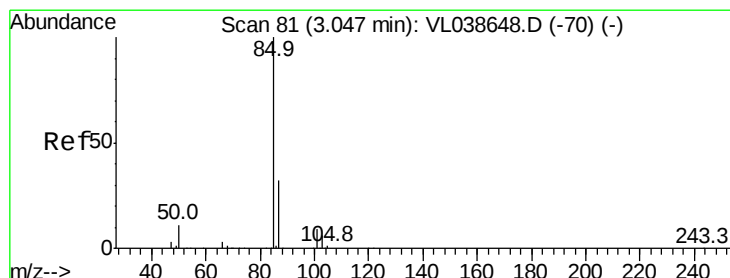
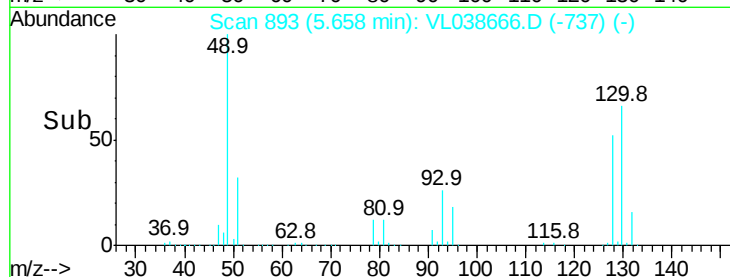
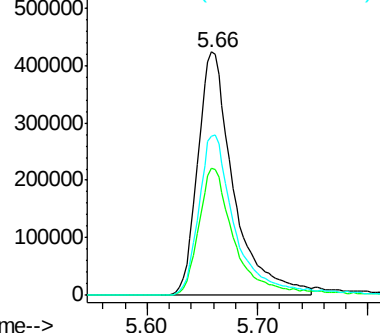
130 69.2 33.7 101.1



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: 0.02 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL038666.D

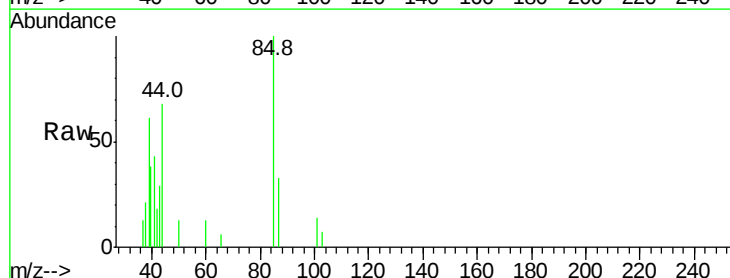
Acq: 22 Mar 2022 1:19

Tgt Ion: 85 Resp: 2755

Ion Ratio Lower Upper

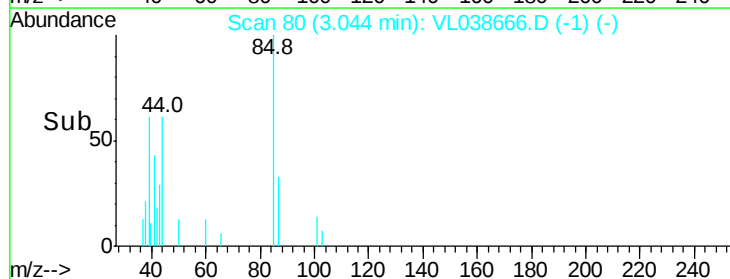
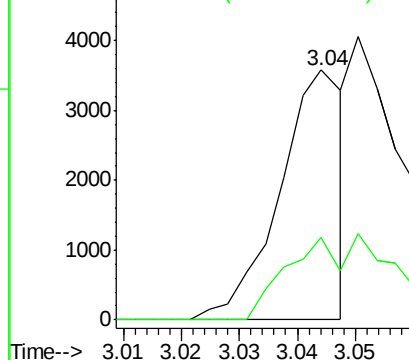
85 100

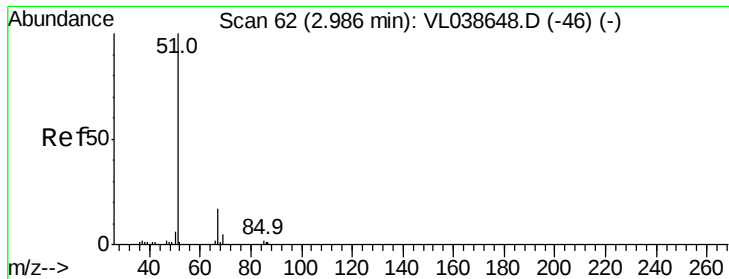
87 32.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.05 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. 0.00 min

Lab File: ClientSampleId: COP80DL

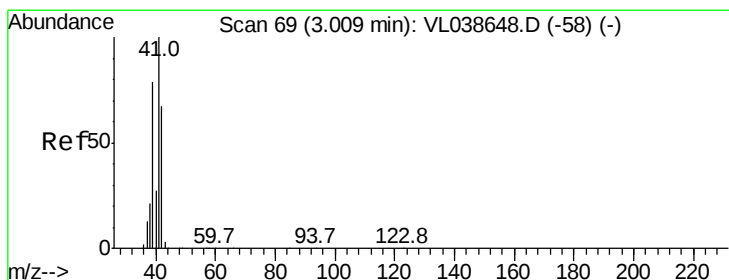
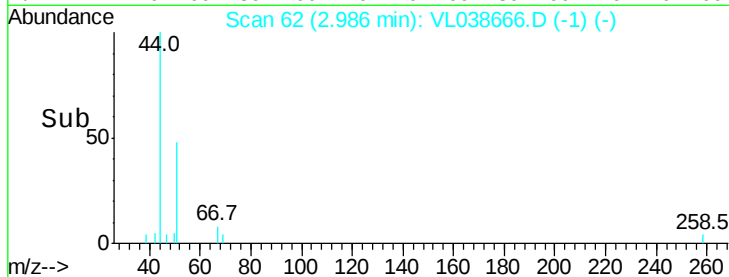
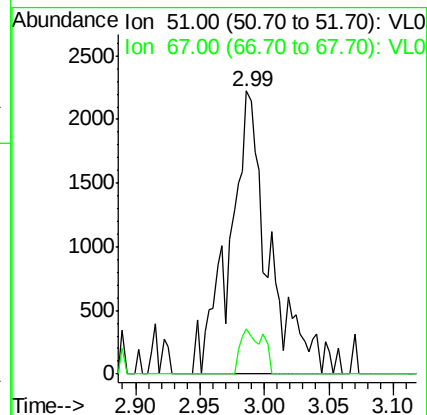
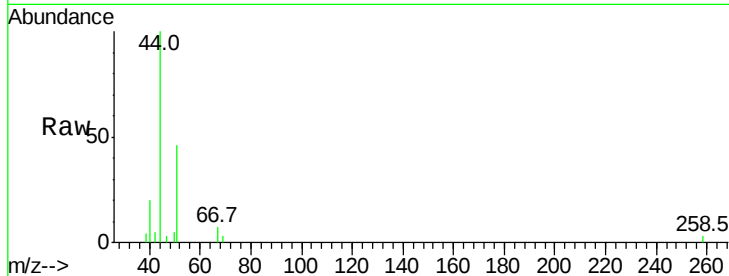
Acq: 22 Mar 2022 1:19

Tgt Ion: 51 Resp: 4790

Ion Ratio Lower Upper

51 100

67 8.7 14.1 21.1#



#9

Propene

Concen: 0.12 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL038666.D

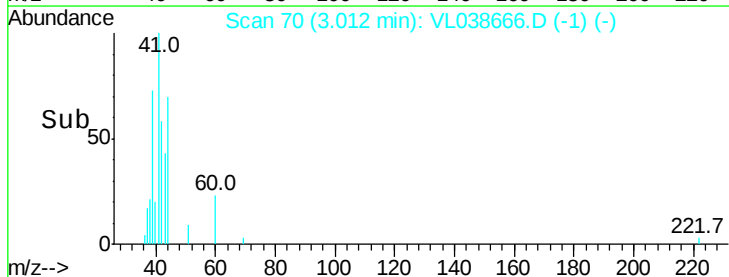
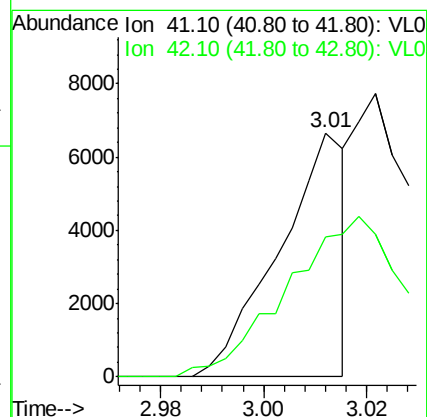
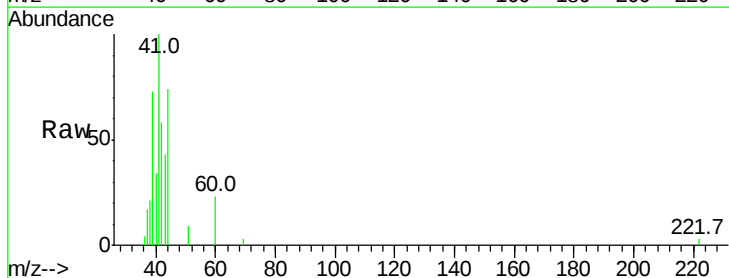
Acq: 22 Mar 2022 1:19

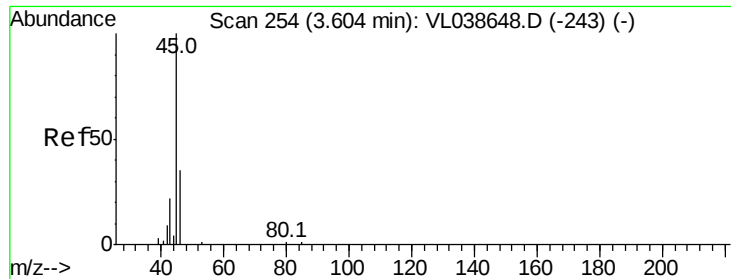
Tgt Ion: 41 Resp: 5980

Ion Ratio Lower Upper

41 100

42 0.0 56.2 84.4#





#13

Ethanol

Concen: 2.93 ppbv

RT: 3.61 Instrument: MSVOA_1

Delta R.T. 0.01

Lab File: ClientSampleId: COP80DL

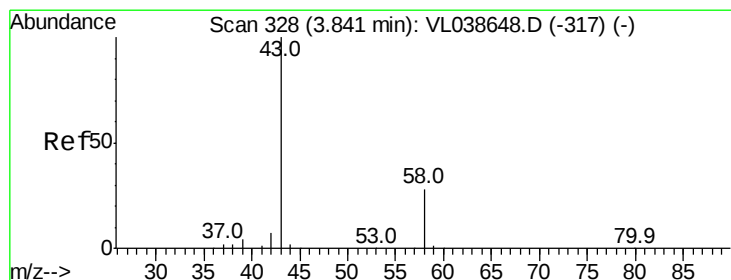
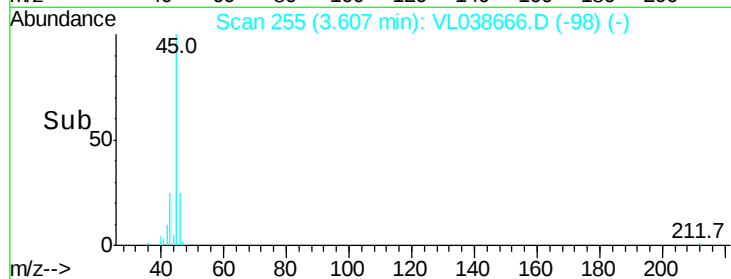
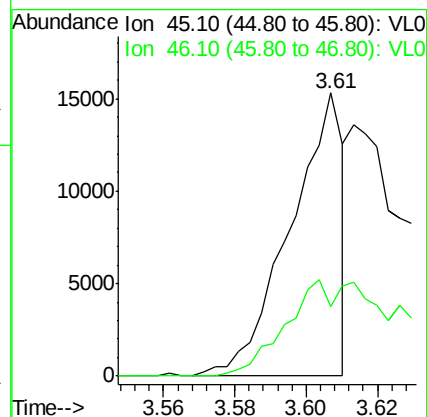
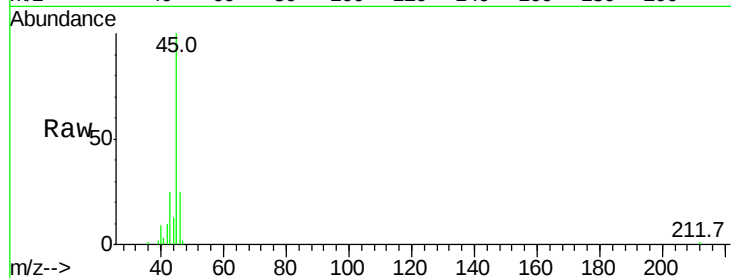
Acq: 22 Mar 2022 1:19

Tgt Ion: 45 Resp: 15744

Ion Ratio Lower Upper

45 100

46 95.7 15.1 60.5#



#15

Acetone

Concen: 1.07 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.01 min

Lab File: VL038666.D

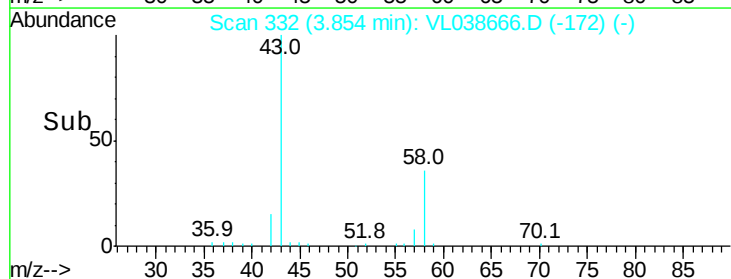
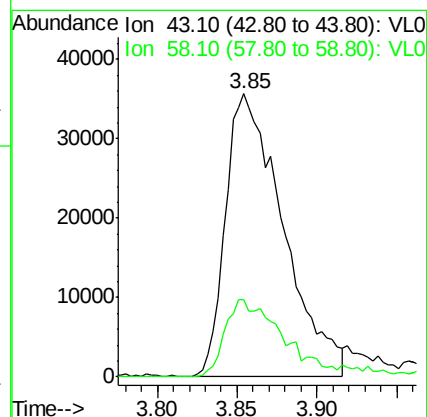
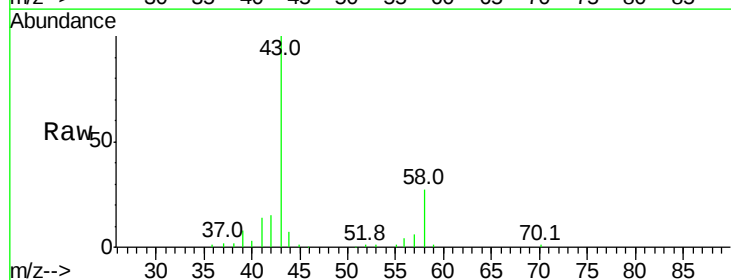
Acq: 22 Mar 2022 1:19

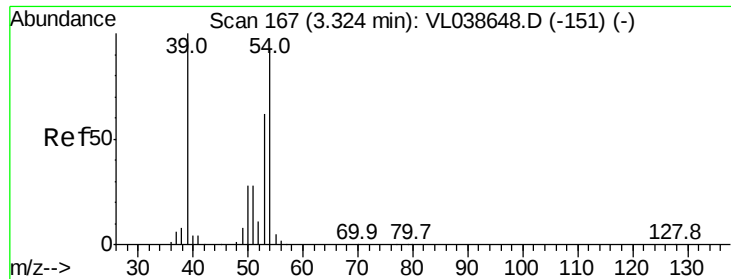
Tgt Ion: 43 Resp: 88218

Ion Ratio Lower Upper

43 100

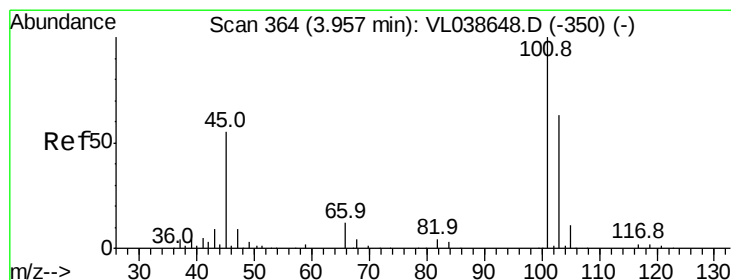
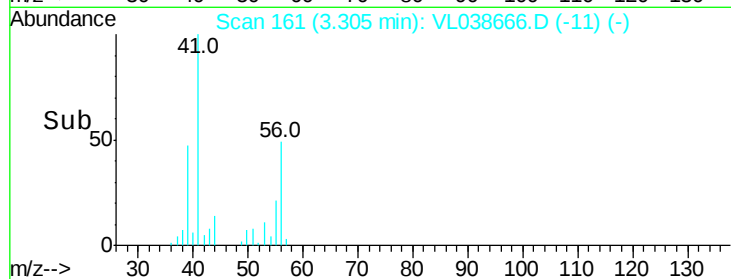
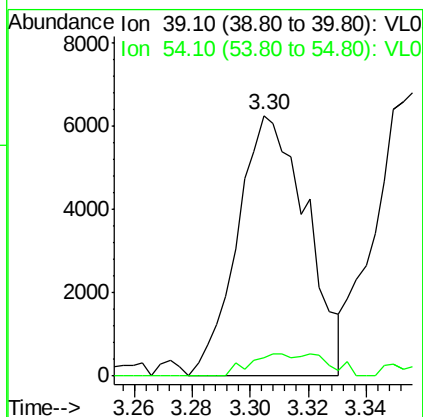
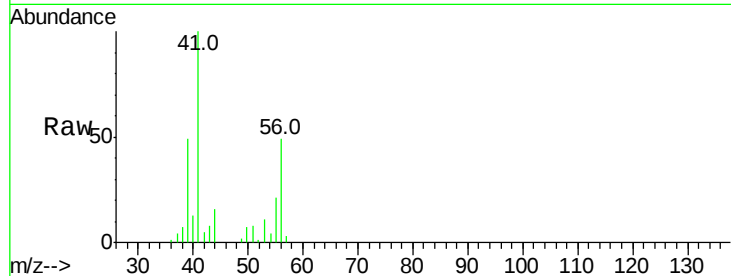
58 29.7 23.3 34.9





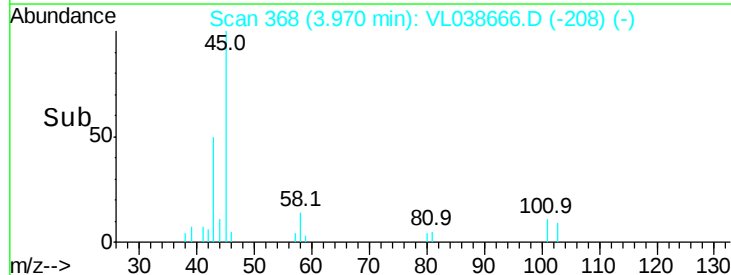
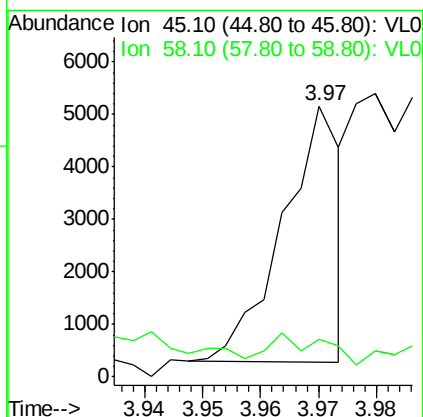
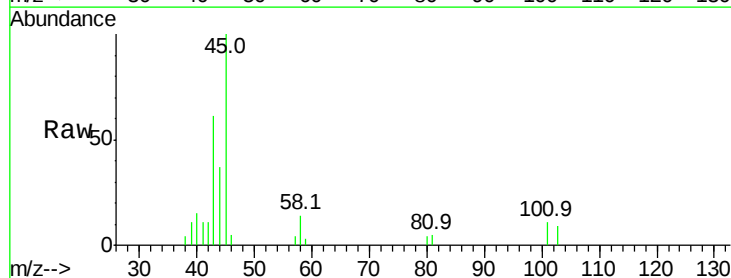
#16
 1,3-Butadiene
 Concen: 0.22 ppbv
 RT: 3.30
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Mar 2022 1:19

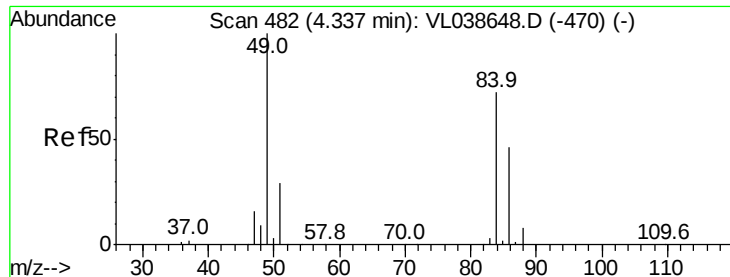
Tgt Ion: 39 Resp: 10364
 Ion Ratio Lower Upper
 39 100
 54 11.3 69.1 103.7#



#19
 Isopropyl Alcohol
 Concen: 0.07 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.01 min
 Lab File: VL038666.D
 Acq: 22 Mar 2022 1:19

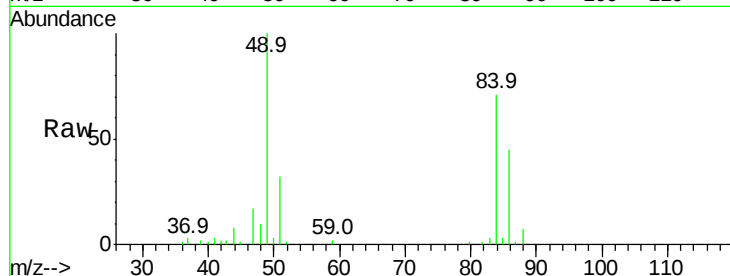
Tgt Ion: 45 Resp: 3407
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.3 3.5#



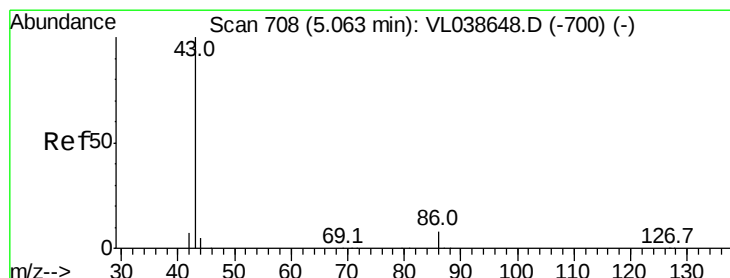
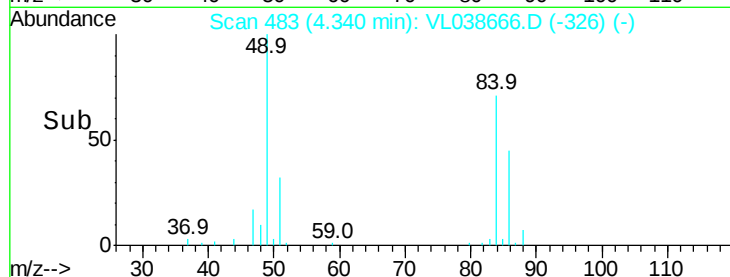
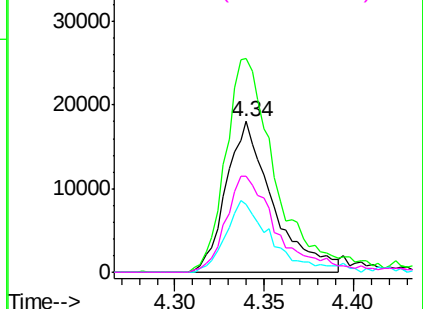


#20
Methylene Chloride
Concen: 0.95 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 22 Mar 2022 1:19

Tgt Ion:	84	Resp:	32905
Ion	Ratio	Lower	Upper
84	100		
49	141.6	111.2	166.8
51	45.1	32.8	49.2
86	63.3	51.4	77.0

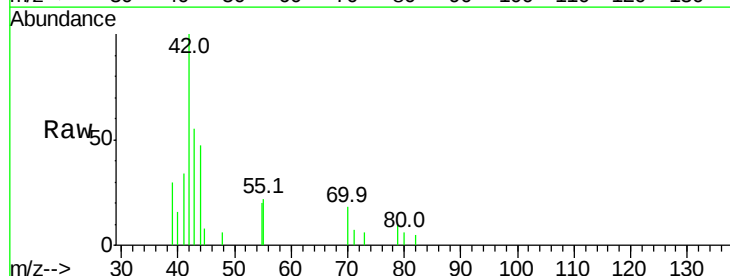


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

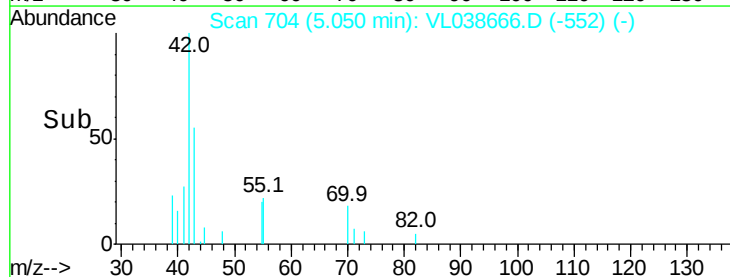
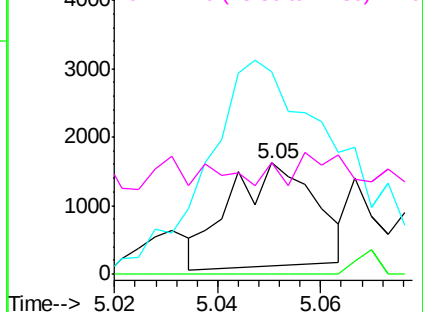


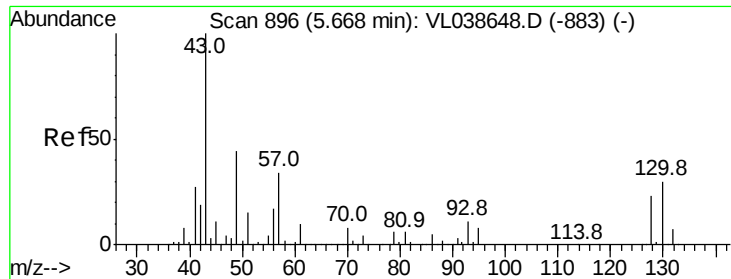
#23
Vinyl Acetate
Concen: 0.02 ppbv
RT: 5.05 min Scan# 704
Delta R.T. -0.01 min
Lab File: VL038666.D
Acq: 22 Mar 2022 1:19

Tgt Ion:	43	Resp:	1726
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.6	8.4#
42	181.2	6.8	10.2#
44	30.6	4.2	6.2#



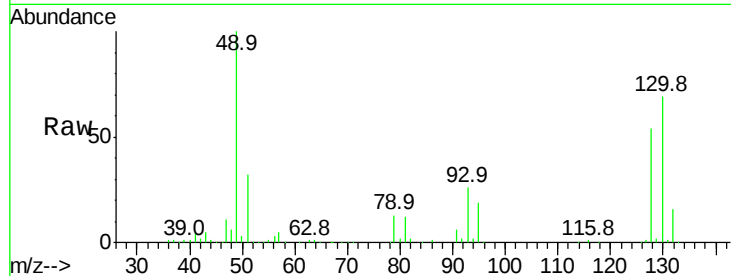
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



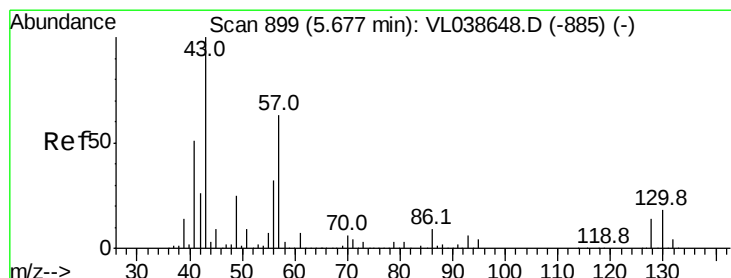
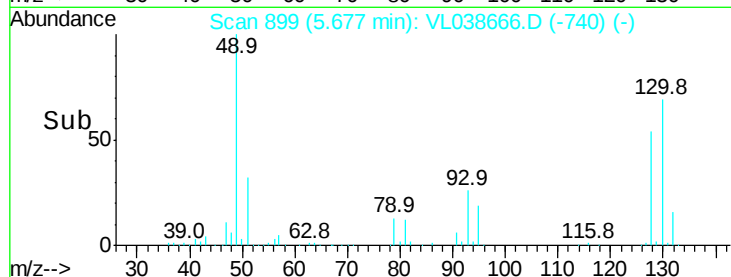
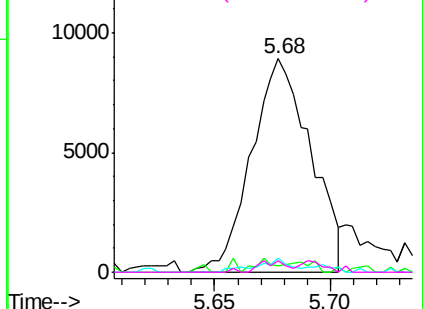


#25
Ethyl Acetate
Concen: 0.08 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP80DL
Acq: 22 Mar 2022 1:19

Tgt Ion:	43	Resp:	15836
Ion Ratio	Lower	Upper	
43	100		
45	5.9	8.2	12.4#
61	5.0	8.3	12.5#
70	4.8	5.6	8.4#

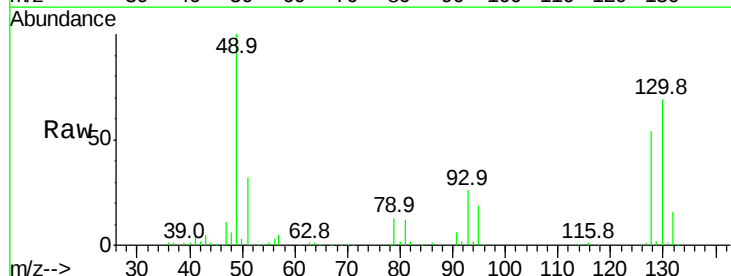


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

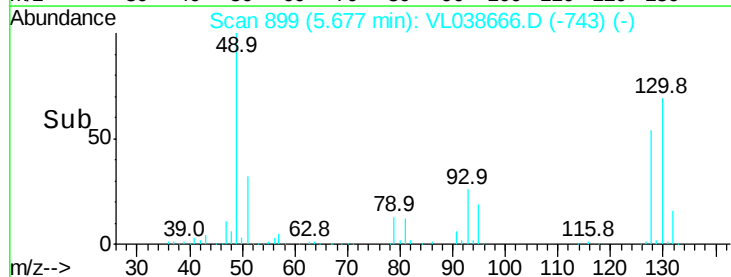
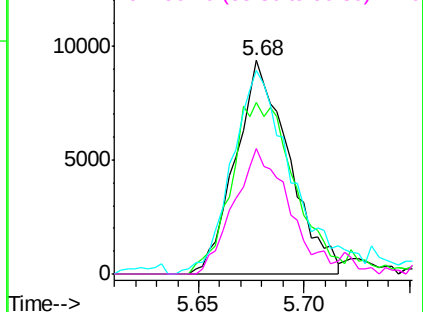


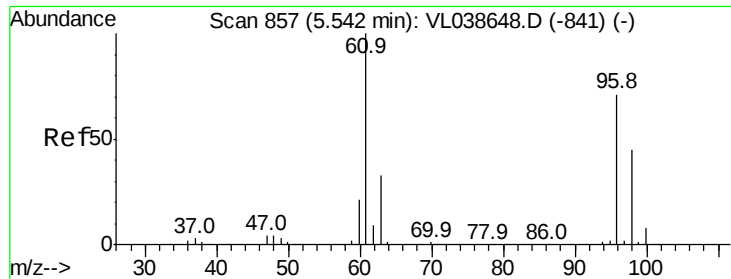
#26
Hexane
Concen: 0.18 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL038666.D
Acq: 22 Mar 2022 1:19

Tgt Ion:	57	Resp:	16450
Ion Ratio	Lower	Upper	
57	100		
41	102.9	67.0	100.4#
43	120.2	184.2	276.2#
56	63.7	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





#31

cis-1,2-Dichloroethene

Concen: 0.03 ppbv

RT: 5.54 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: COP80DL

Acq: 22 Mar 2022 1:19

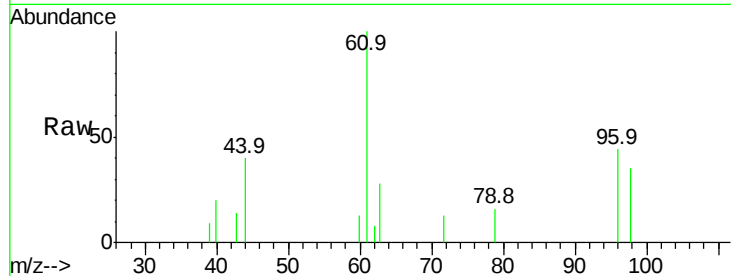
Tgt Ion: 61 Resp: 2192

Ion Ratio Lower Upper

61 100

96 44.1 56.6 84.8#

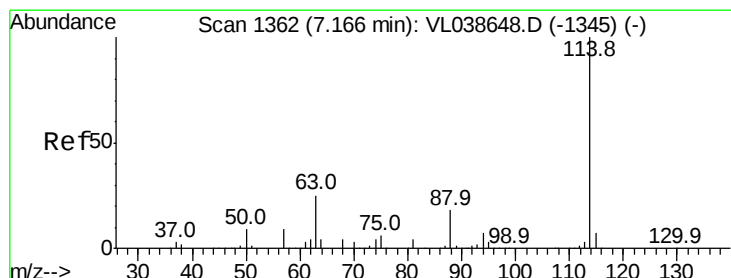
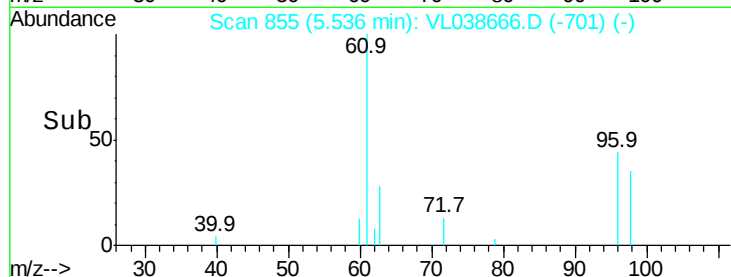
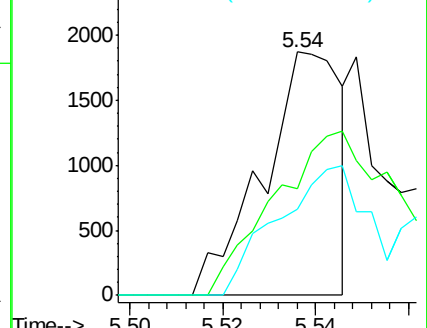
98 35.2 36.3 54.5#



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VL038666.D

Acq: 22 Mar 2022 1:19

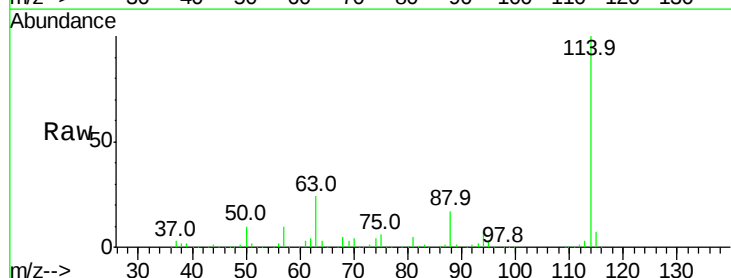
Tgt Ion: 114 Resp: 2469688

Ion Ratio Lower Upper

114 100

63 23.6 19.4 29.0

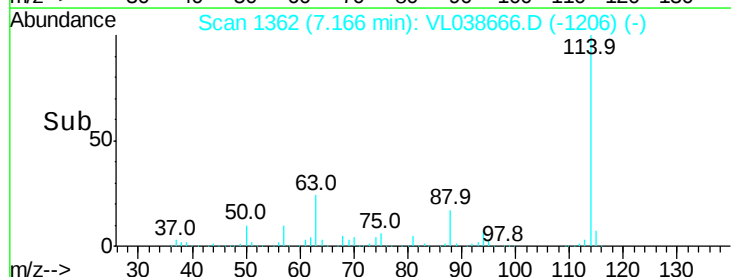
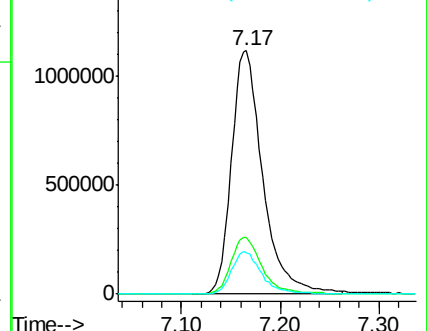
88 17.1 13.9 20.9

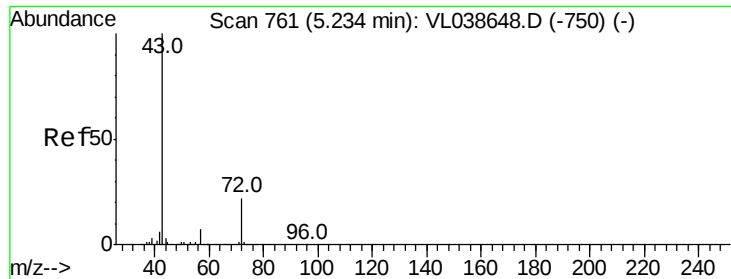


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

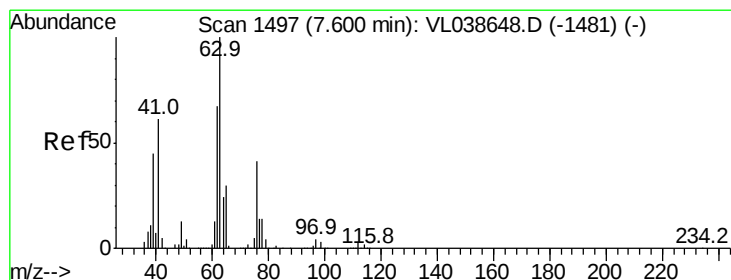
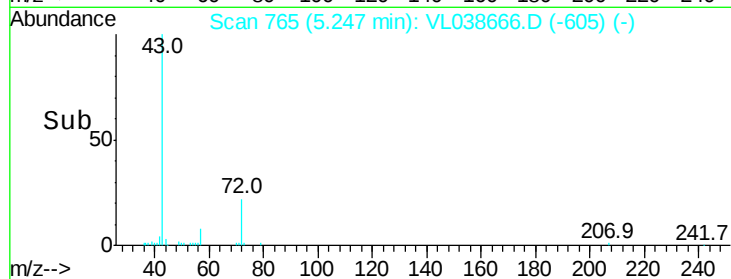
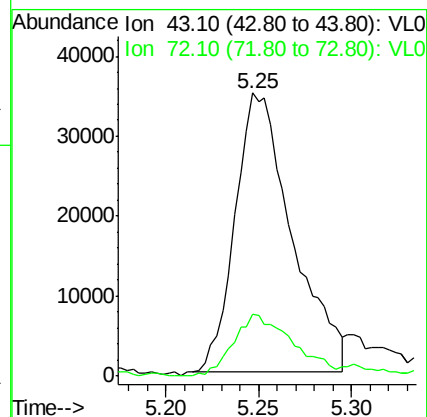
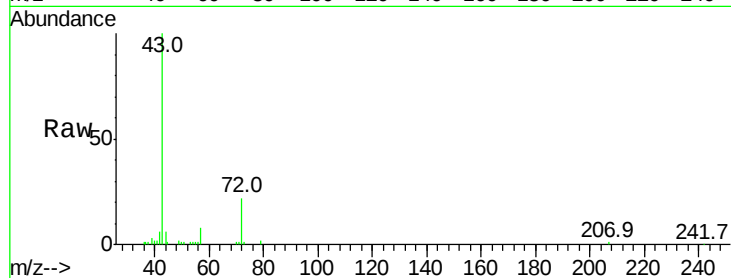
Ion 88.10 (87.80 to 88.80): VL0





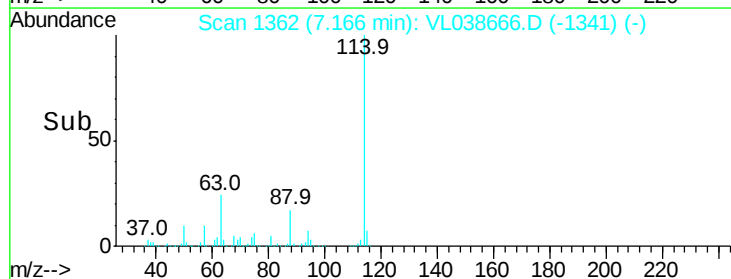
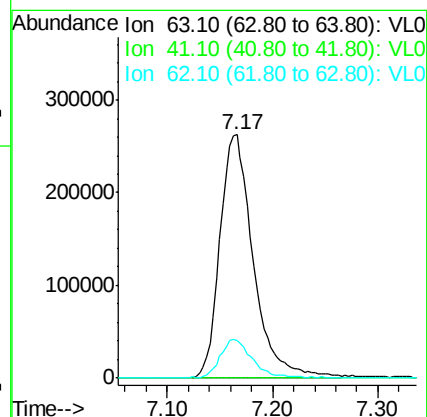
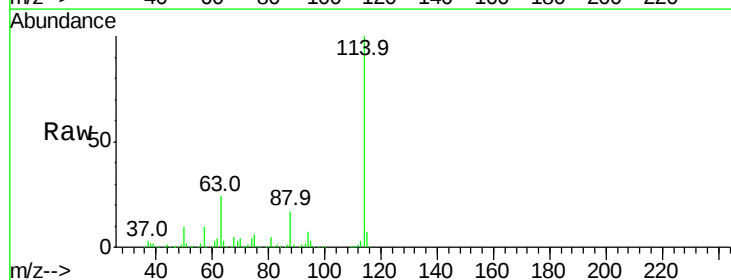
#34
 2-Butanone
 Concen: 0.77 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Mar 2022 1:19

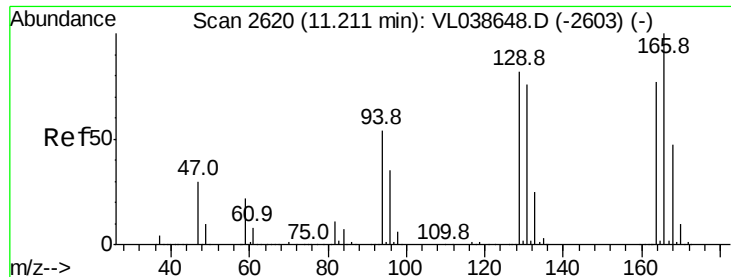
Tgt Ion: 43 Resp: 74907
 Ion Ratio Lower Upper
 43 100
 72 25.6 17.8 26.8



#39
 1,2-Dichloropropane
 Concen: 7.76 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.43 min
 Lab File: VL038666.D
 Acq: 22 Mar 2022 1:19

Tgt Ion: 63 Resp: 578227
 Ion Ratio Lower Upper
 63 100
 41 0.1 49.0 73.6#
 62 15.2 53.9 80.9#





#52

Tetrachloroethene

Concen: 0.71 ppbv

RT: 11.21

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Mar 2022 1:19

Tgt Ion: 164 Resp: 49245

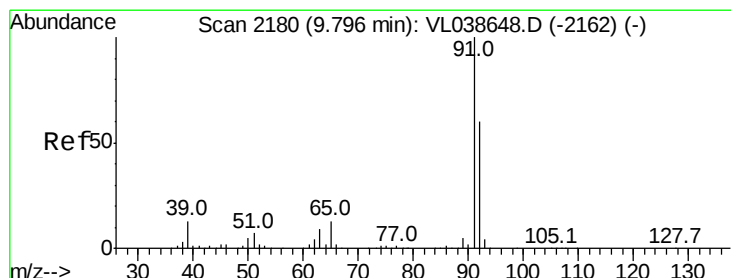
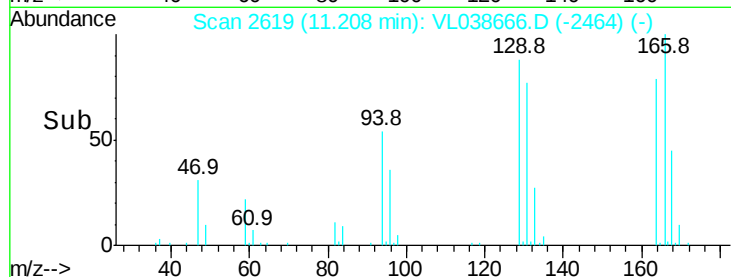
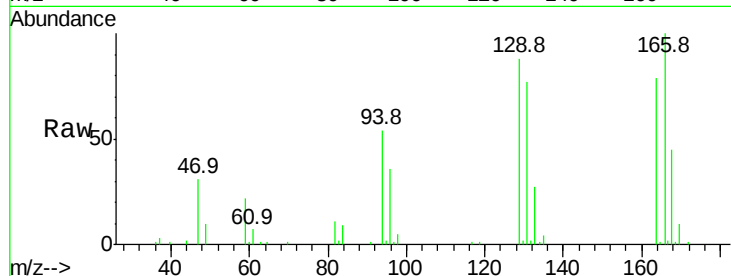
Ion Ratio Lower Upper

164 100

166 122.4 103.3 154.9

129 108.1 85.2 127.8

131 99.3 78.3 117.5



#53

Toluene

Concen: 0.31 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL038666.D

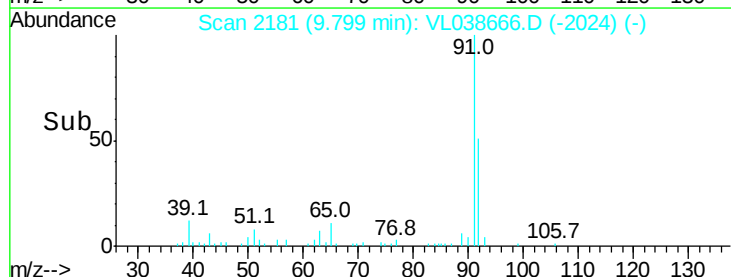
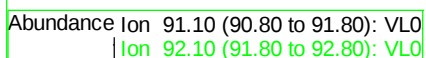
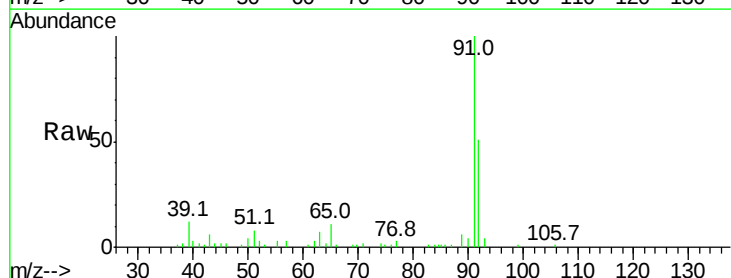
Acq: 22 Mar 2022 1:19

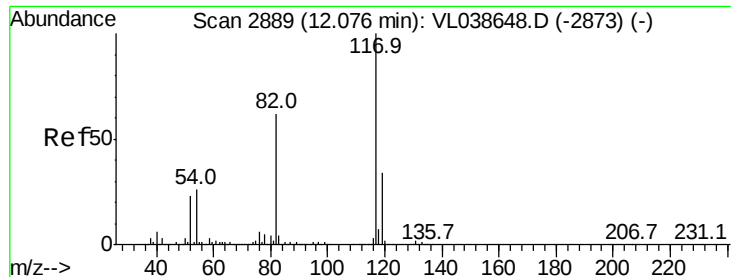
Tgt Ion: 91 Resp: 63022

Ion Ratio Lower Upper

91 100

92 61.0 48.7 73.1

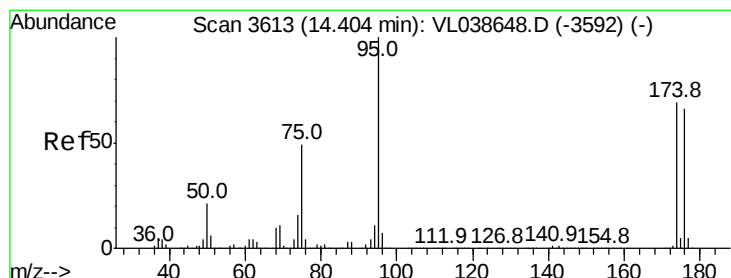
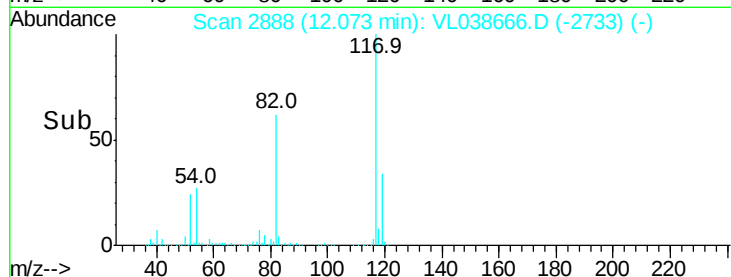
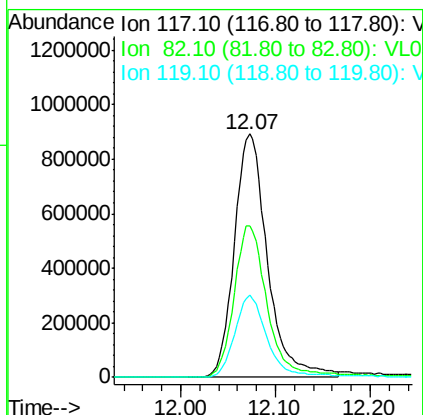
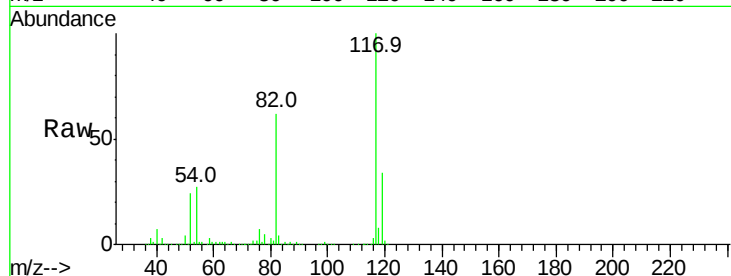




#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 12.07 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 COP80DL
 Acq: 22 Mar 2022 1:19

Tgt Ion: 117 Resp: 2176582

Ion	Ratio	Lower	Upper
117	100		
82	64.2	51.6	77.4
119	34.2	26.9	40.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.56 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T.: -0.00 min
 Lab File: VL038666.D
 Acq: 22 Mar 2022 1:19

Tgt Ion: 95 Resp: 1595518

Ion	Ratio	Lower	Upper
95	100		
174	73.3	56.1	84.1
175	5.3	4.2	6.2

