

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041922\
 Data File : VL038954.D
 Acq On : 20 Apr 2022 9:04
 Operator : SY/AP
 Sample : QC041922 CAN 10598
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC041922 CAN 10598

Quant Time: Apr 20 10:25:19 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL040522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.642	49	1062099	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	7.147	114	2702191	10.000	ppbv	-0.03
55) Chlorobenzene-d5	12.050	117	2332545	10.000	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.381	95	1954245	11.045	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.500%

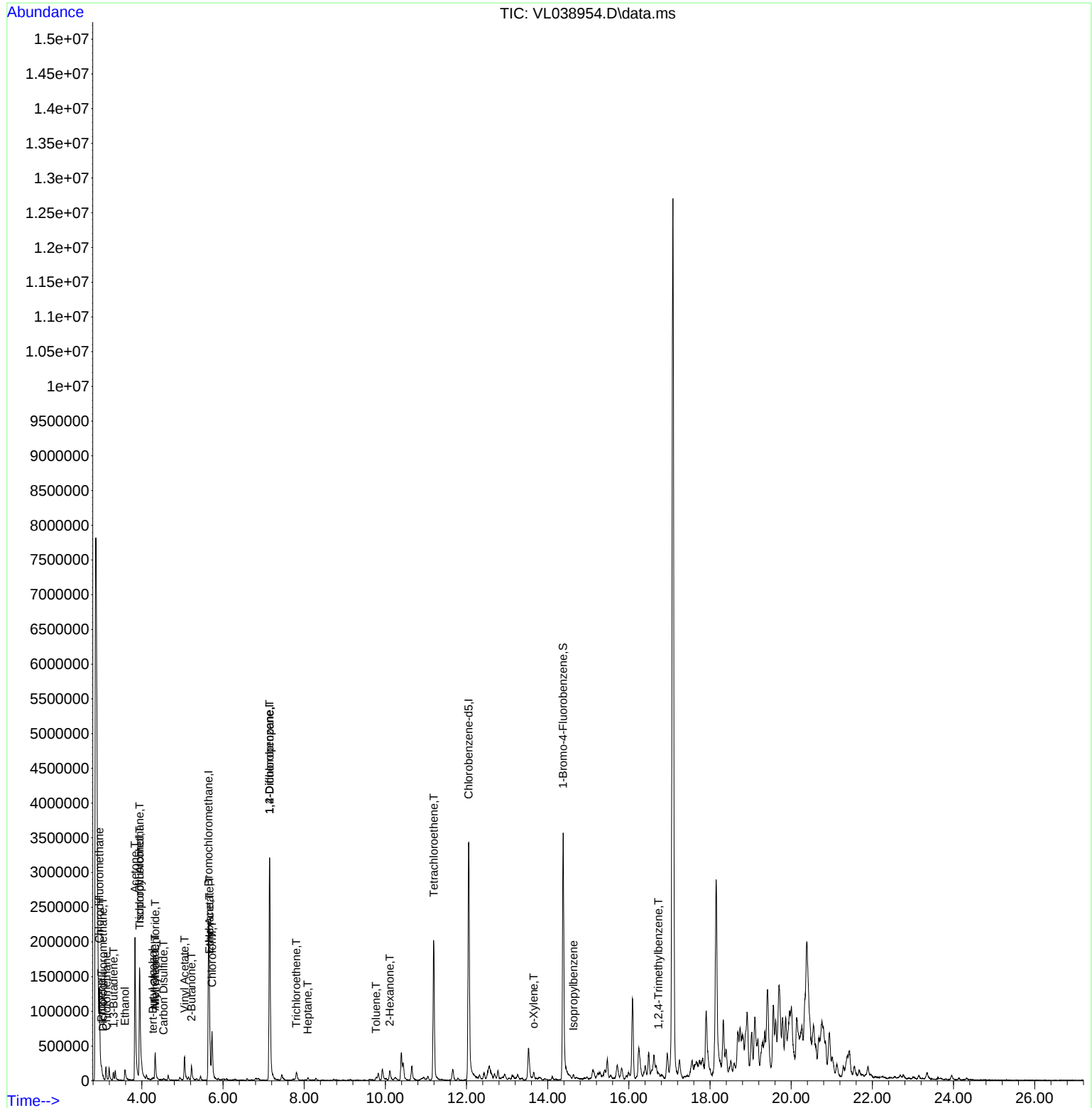
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.044	85	24480	0.162	ppbv	90
3) Chlorodifluoromethane	2.954	51	765065	5.902	ppbv #	63
4) Chloromethane	3.131	50	2395	0.036	ppbv #	85
9) Propene	3.009	41	46289	0.675	ppbv	95
10) Heptane	8.089	43	6506	0.038	ppbv #	1
11) Trichlorofluoromethane	3.941	101	4532	0.037	ppbv #	69
13) Ethanol	3.584	45	199613	47.896	ppbv #	100
15) Acetone	3.832	43	2607424	24.658	ppbv	98
16) 1,3-Butadiene	3.301	39	32836	0.543	ppbv #	9
17) tert-Butyl alcohol	4.272	59	8986	0.095	ppbv #	30
19) Isopropyl Alcohol	3.944	45	2176073	40.265	ppbv #	100
20) Methylene Chloride	4.330	84	152691	3.982	ppbv	94
21) Allyl Chloride	4.324	41	3124	0.039	ppbv #	20
23) Vinyl Acetate	5.054	43	538926	5.233	ppbv #	98
25) Ethyl Acetate	5.668	43	188577	0.703	ppbv #	83
26) Hexane	5.665	57	235207	1.926	ppbv #	30
27) Carbon Disulfide	4.533	76	10694	0.095	ppbv #	73
29) Chloroform	5.729	83	499439	2.923	ppbv	99
34) 2-Butanone	5.224	43	267343	2.504	ppbv	96
38) Trichloroethene	7.806	130	6635	0.066	ppbv #	73
39) 1,2-Dichloropropane	7.147	63	697637	7.420	ppbv #	27
51) 2-Hexanone	10.111	43	121136	0.669	ppbv #	98
52) Tetrachloroethene	11.192	164	497087	5.789	ppbv	98
53) Toluene	9.770	91	23480	0.083	ppbv #	72
60) o-Xylene	13.651	91	10856	0.040	ppbv #	29
62) Isopropylbenzene	14.632	105	29406	0.071	ppbv #	48
74) 1,2,4-Trimethylbenzene	16.728	105	37863	0.122	ppbv #	65

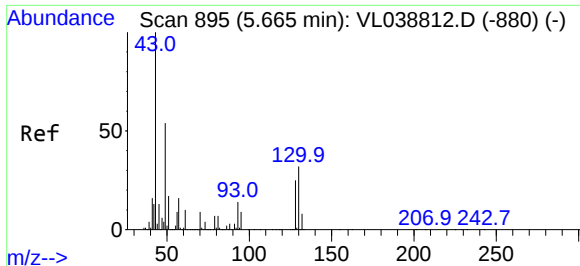
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
QLast Update : Wed Apr 06 06:12:53 2022
Response via : Initial Calibration

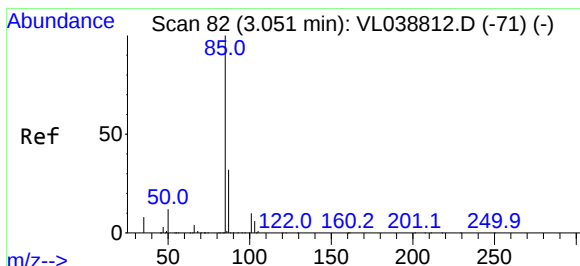
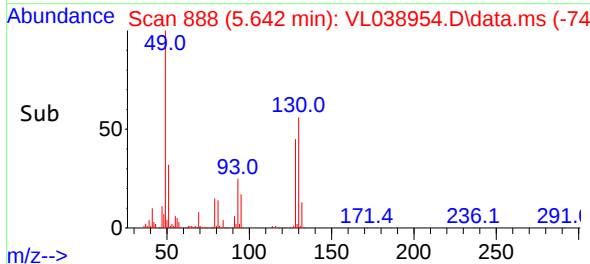
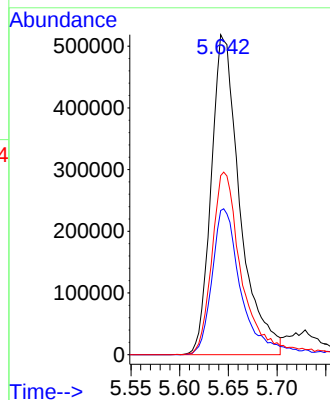
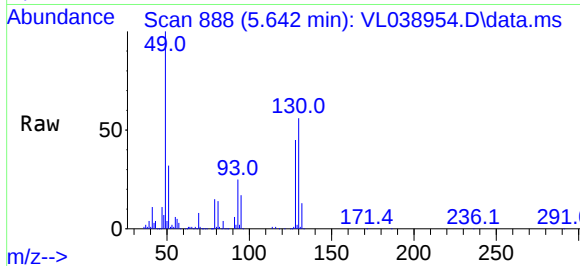




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.642 min Scan# 80
Delta R.T. -0.023 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

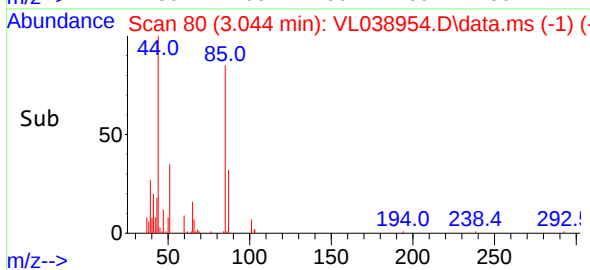
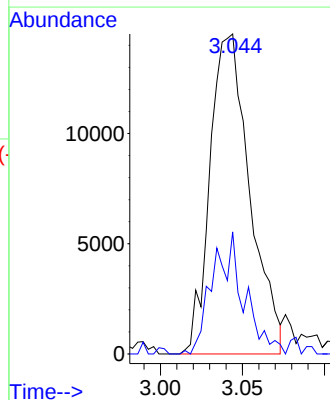
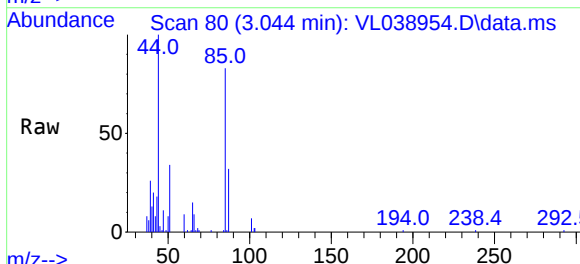
Instrument :
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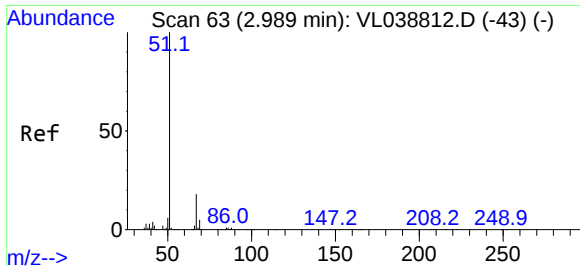
Tgt Ion: 49 Resp: 1062099
Ion Ratio Lower Upper
49 100
128 47.6 24.1 72.3
130 60.8 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.162 ppbv
RT: 3.044 min Scan# 80
Delta R.T. -0.007 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

Tgt Ion: 85 Resp: 24480
Ion Ratio Lower Upper
85 100
87 38.1 25.9 38.9

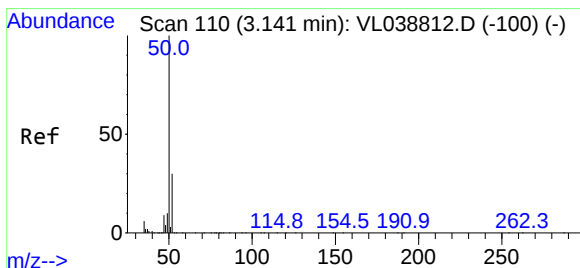
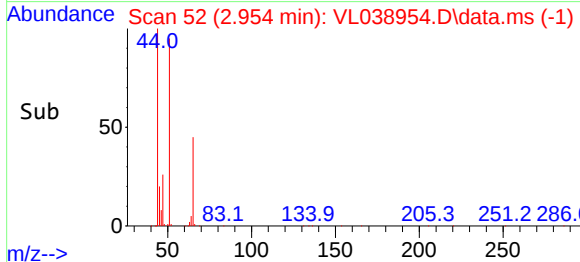
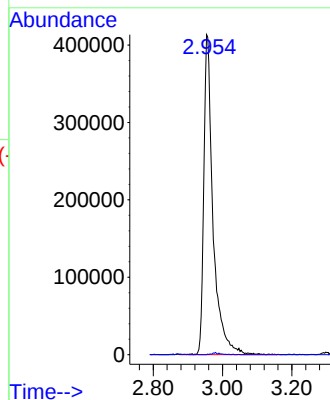
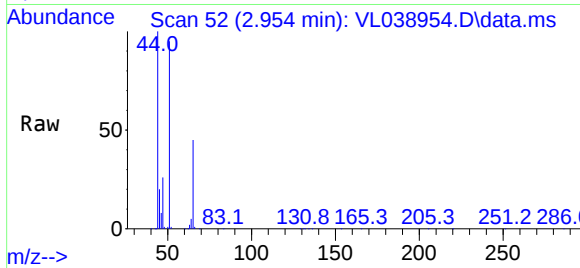




#3
Chlorodifluoromethane
Concen: 5.902 ppbv
RT: 2.954 min Scan# 51
Delta R.T. -0.035 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

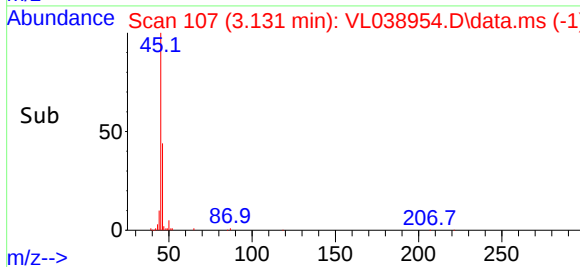
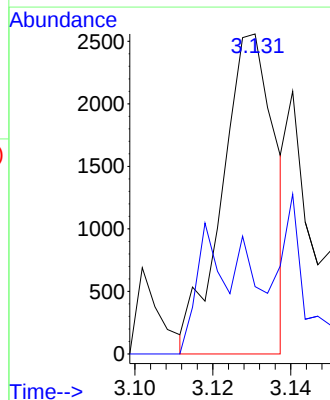
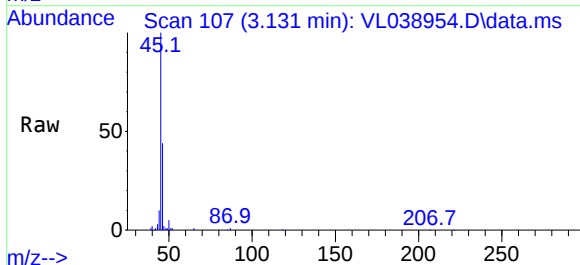
Instrument : MSVOA_L
ClientSampleId : QC041922 CAN 10598

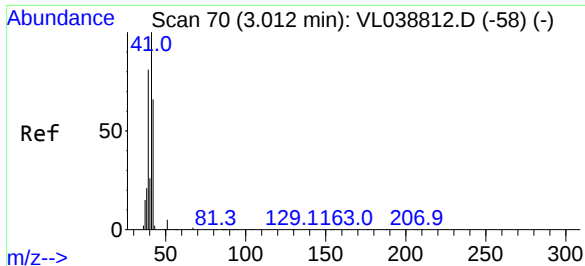
Tgt Ion: 51 Resp: 765065
Ion Ratio Lower Upper
51 100
67 0.6 13.4 20.0#



#4
Chloromethane
Concen: 0.036 ppbv
RT: 3.131 min Scan# 107
Delta R.T. -0.010 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

Tgt Ion: 50 Resp: 2395
Ion Ratio Lower Upper
50 100
52 22.4 24.3 36.5#

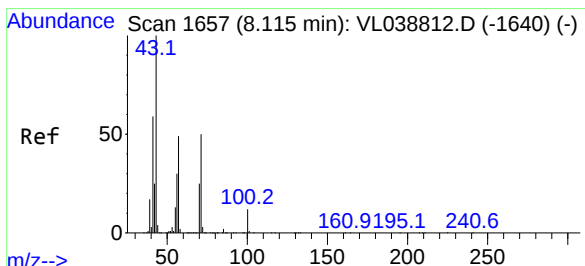
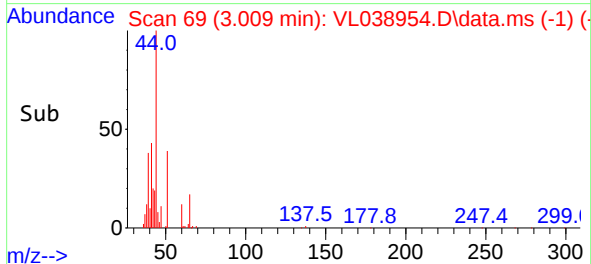
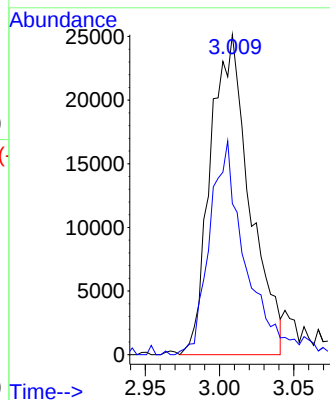
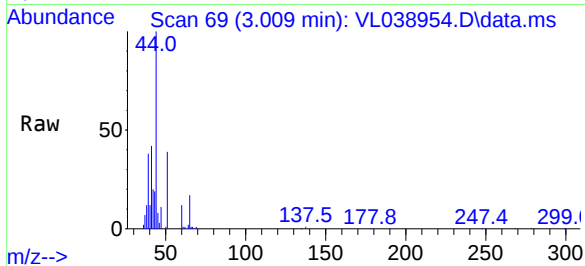




#9
Propene
Concen: 0.675 ppbv
RT: 3.009 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

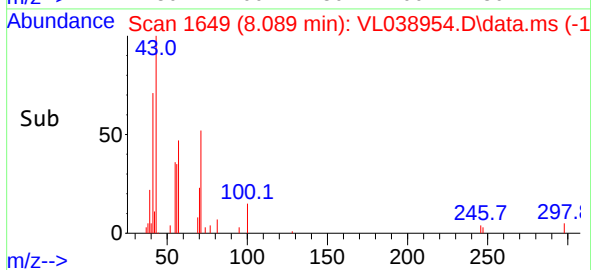
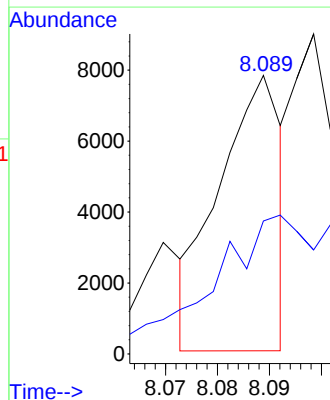
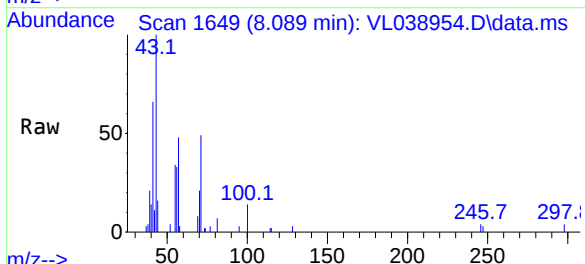
Instrument :
MSVOA_L
ClientSampleId :
QC041922 CAN 10598

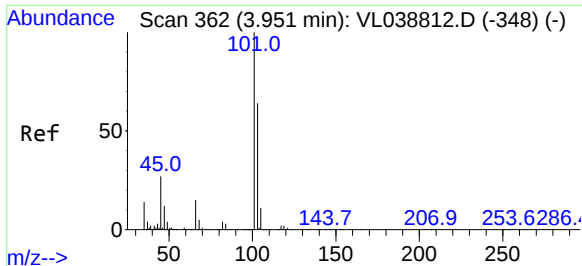
Tgt Ion: 41 Resp: 46289
Ion Ratio Lower Upper
41 100
42 64.1 54.2 81.4



#10
Heptane
Concen: 0.038 ppbv
RT: 8.089 min Scan# 1649
Delta R.T. -0.026 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

Tgt Ion: 43 Resp: 6506
Ion Ratio Lower Upper
43 100
57 151.3 39.3 58.9

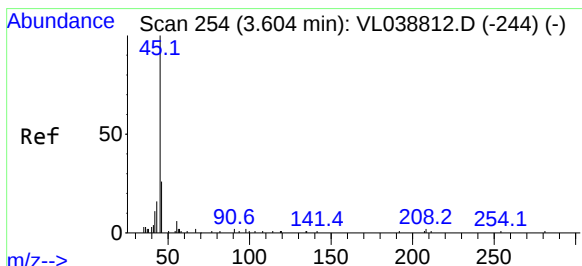
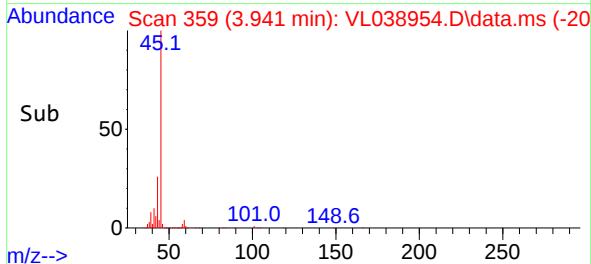
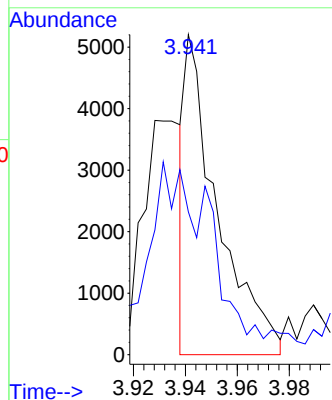
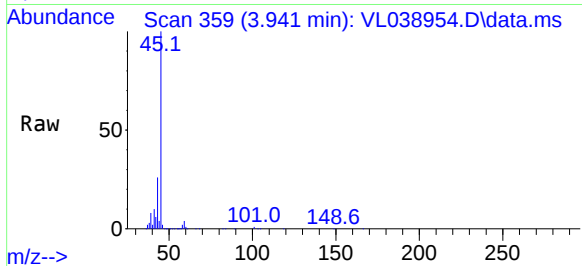




#11
Trichlorofluoromethane
Concen: 0.037 ppbv
RT: 3.941 min Scan# 31
Delta R.T. -0.010 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

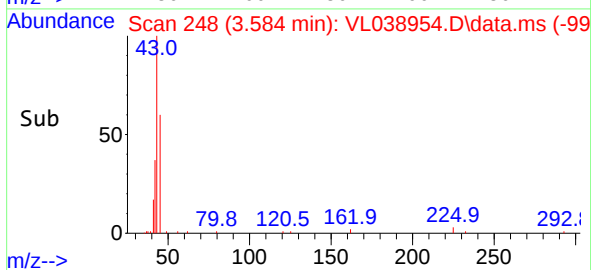
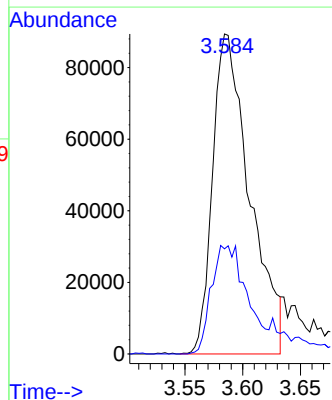
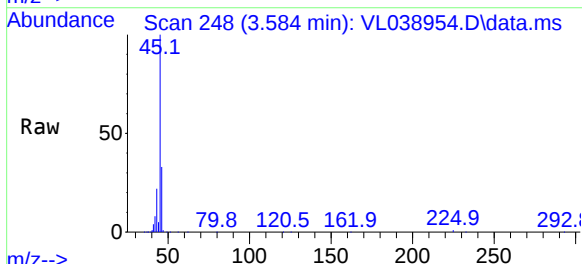
Instrument :
MSVOA_L
ClientSampleId :
QC041922 CAN 10598

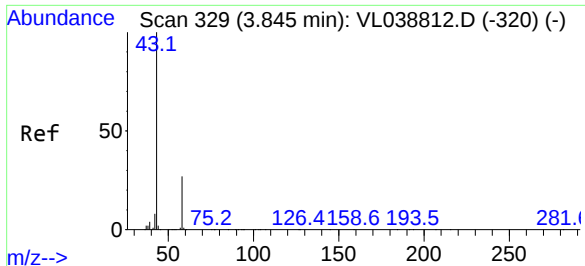
Tgt Ion:101 Resp: 4532
Ion Ratio Lower Upper
101 100
103 39.8 51.4 77.0#



#13
Ethanol
Concen: 47.896 ppbv
RT: 3.584 min Scan# 248
Delta R.T. -0.019 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

Tgt Ion: 45 Resp: 199613
Ion Ratio Lower Upper
45 100
46 40.3 0.0 0.0#

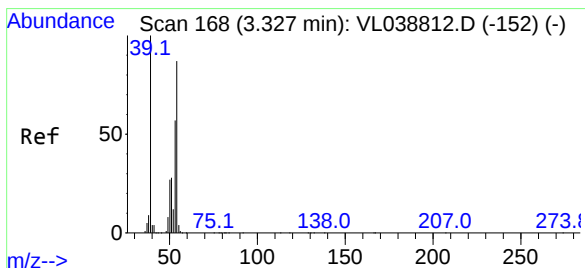
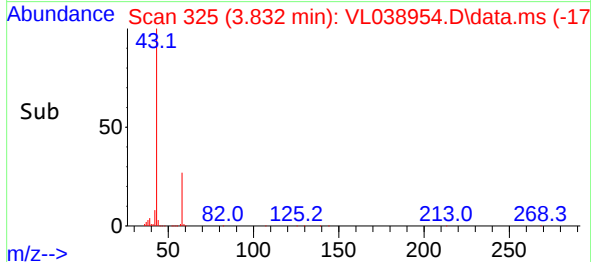
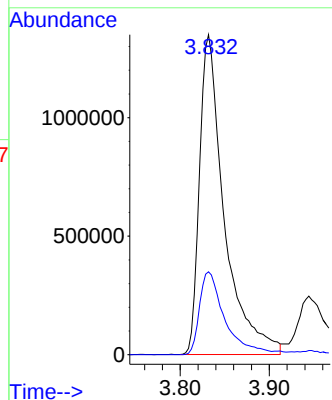
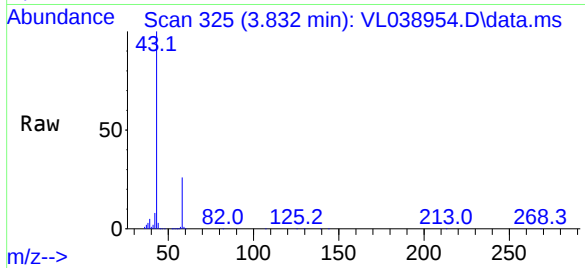




#15
Acetone
Concen: 24.658 ppbv
RT: 3.832 min Scan# 31
Delta R.T. -0.013 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

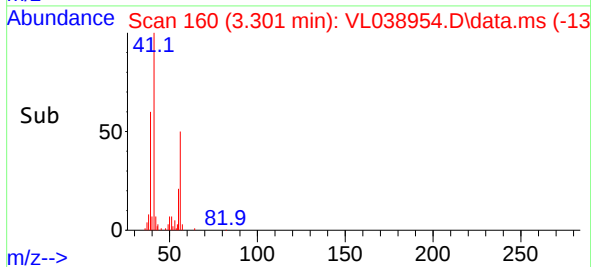
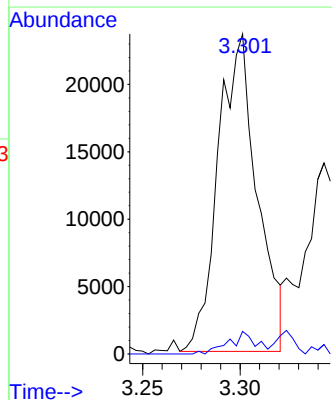
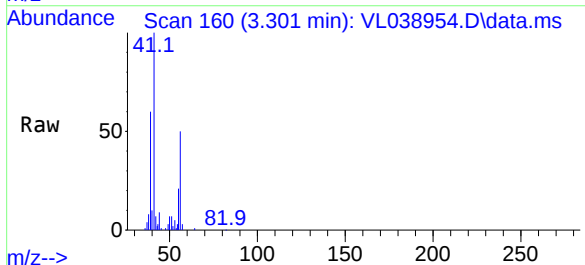
Instrument :
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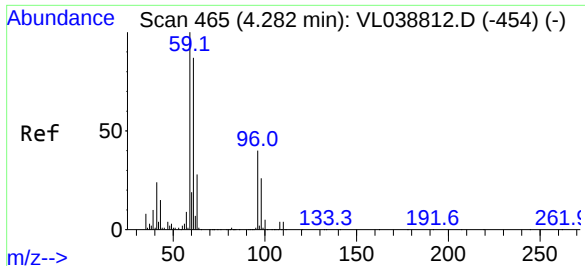
Tgt Ion: 43 Resp: 2607424
Ion Ratio Lower Upper
43 100
58 26.8 22.5 33.7



#16
1,3-Butadiene
Concen: 0.543 ppbv
RT: 3.301 min Scan# 160
Delta R.T. -0.026 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

Tgt Ion: 39 Resp: 32836
Ion Ratio Lower Upper
39 100
54 0.0 64.8 97.2#

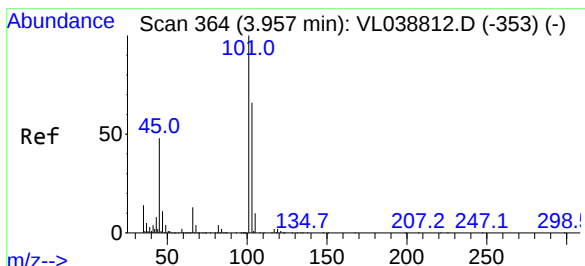
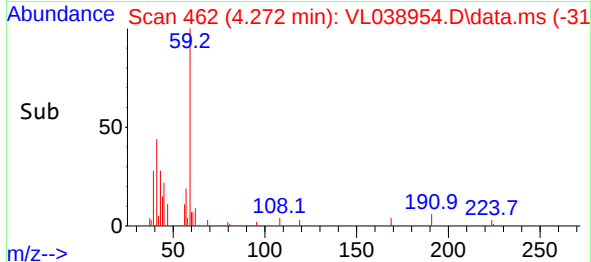
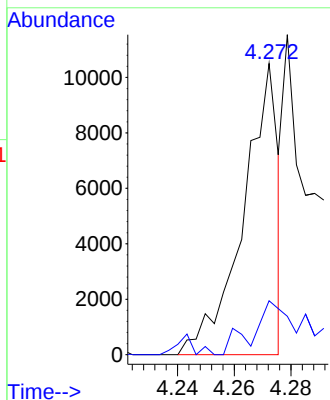
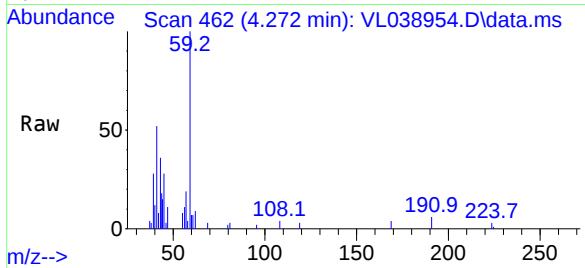




#17
tert-Butyl alcohol
Concen: 0.095 ppbv
RT: 4.272 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

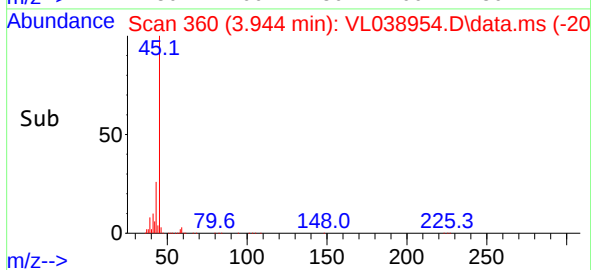
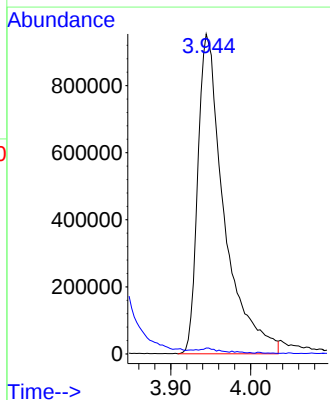
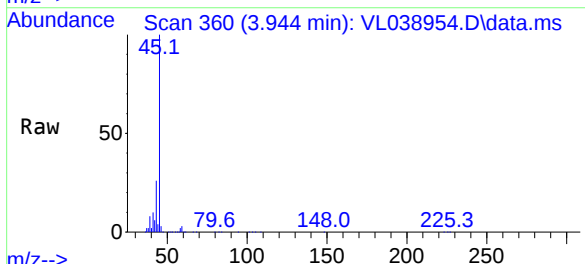
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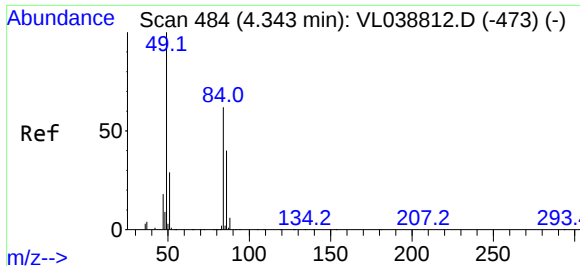
Tgt Ion: 59 Resp: 8986
Ion Ratio Lower Upper
59 100
57 36.9 8.5 12.7#



#19
Isopropyl Alcohol
Concen: 40.265 ppbv
RT: 3.944 min Scan# 360
Delta R.T. -0.013 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

Tgt Ion: 45 Resp: 2176073
Ion Ratio Lower Upper
45 100
58 1.2 0.0 0.0#





#20

Methylene Chloride

Concen: 3.982 ppbv

RT: 4.330 min Scan# 41

Delta R.T. -0.013 min

Lab File: VL038954.D

Acq: 20 Apr 2022 9:04

Instrument :

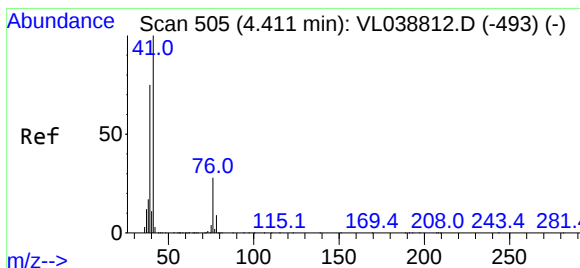
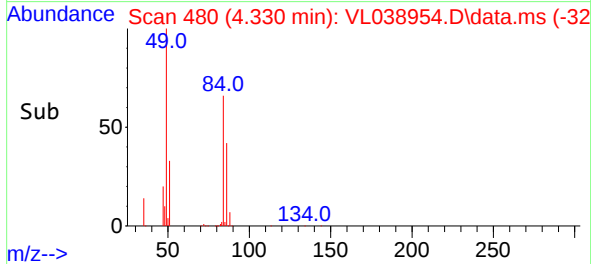
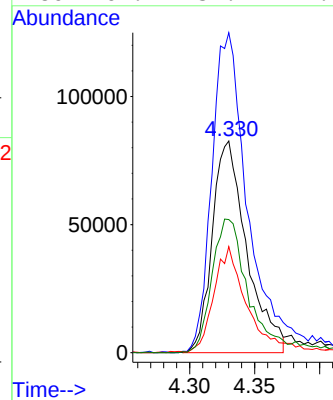
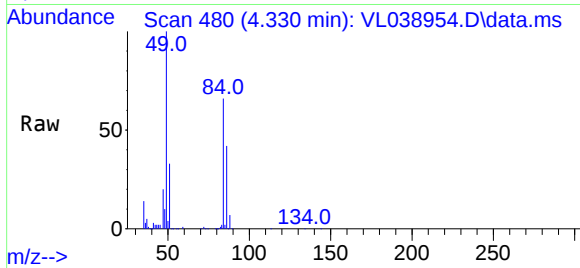
MSVOA_L

ClientSampleId :

QC041922 CAN 10598

Tgt Ion: 84 Resp: 152691

Ion	Ratio	Lower	Upper
84	100		
49	150.4	129.4	194.0
51	49.7	37.4	56.2
86	62.4	51.4	77.2



#21

Allyl Chloride

Concen: 0.039 ppbv

RT: 4.324 min Scan# 478

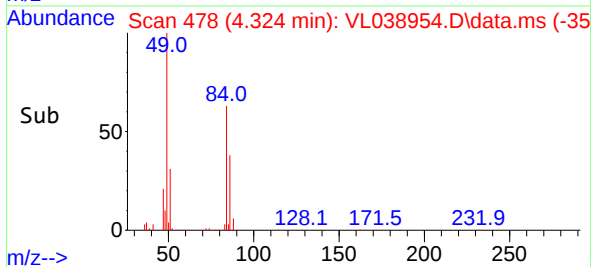
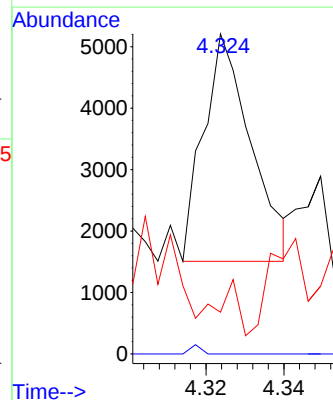
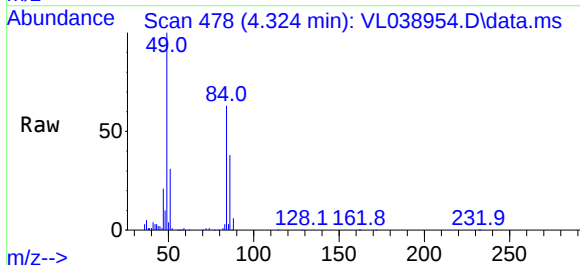
Delta R.T. -0.087 min

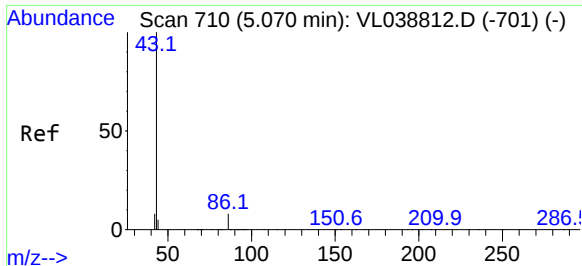
Lab File: VL038954.D

Acq: 20 Apr 2022 9:04

Tgt Ion: 41 Resp: 3124

Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.7	35.5#
39	0.0	62.0	93.0#



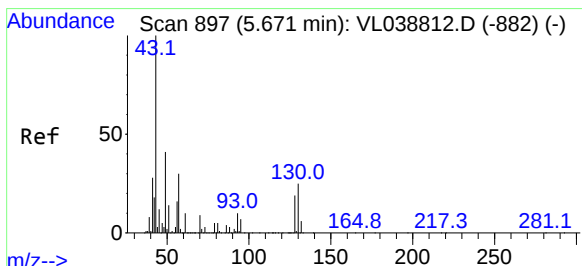
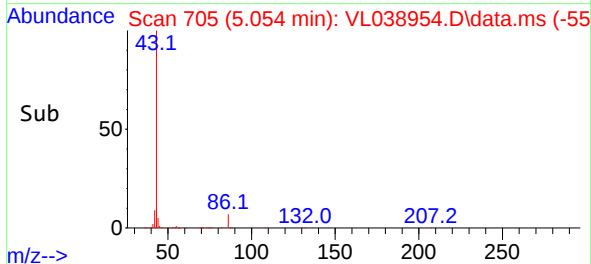
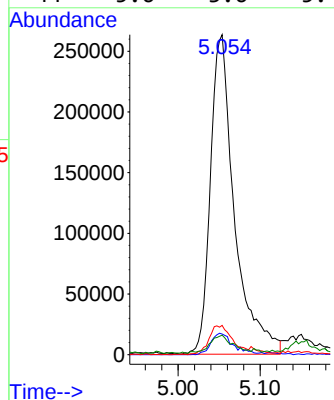
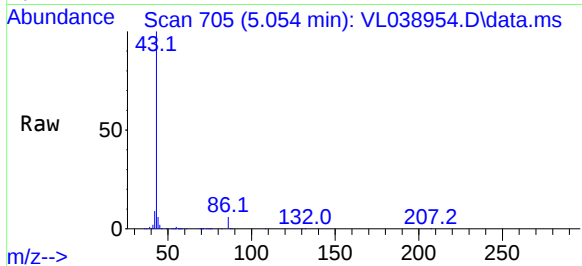


#23
 Vinyl Acetate
 Concen: 5.233 ppbv
 RT: 5.054 min Scan# 705
 Delta R.T. -0.016 min
 Lab File: VL038954.D
 Acq: 20 Apr 2022 9:04

Instrument :
 MSVOA_1
 ClientSampleId :
 QC041922 CAN 10598

Tgt Ion: 43 Resp: 538926

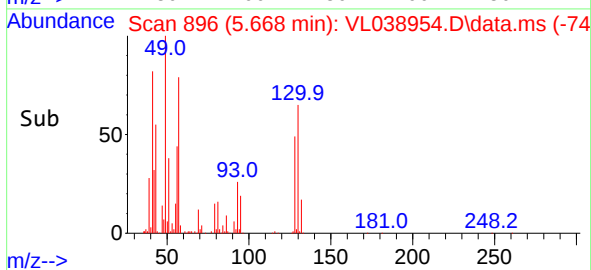
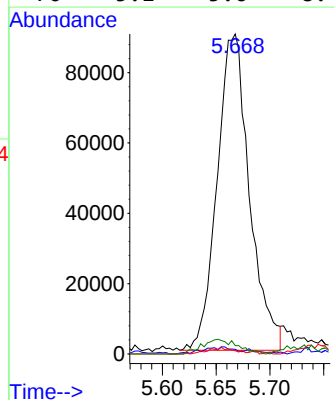
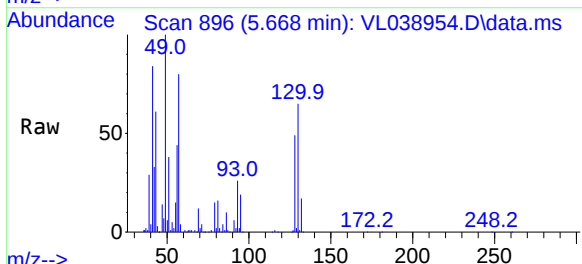
Ion	Ratio	Lower	Upper
43	100		
86	6.5	5.8	8.6
42	9.0	7.8	11.6
44	5.6	3.6	5.4

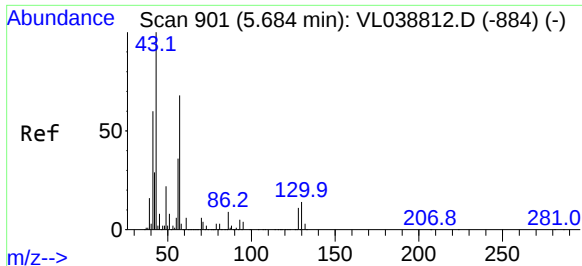


#25
 Ethyl Acetate
 Concen: 0.703 ppbv
 RT: 5.668 min Scan# 896
 Delta R.T. -0.003 min
 Lab File: VL038954.D
 Acq: 20 Apr 2022 9:04

Tgt Ion: 43 Resp: 188577

Ion	Ratio	Lower	Upper
43	100		
45	2.9	8.4	12.6
61	1.8	7.9	11.9
70	5.1	5.6	8.4

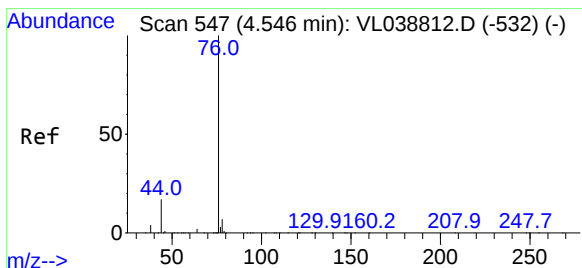
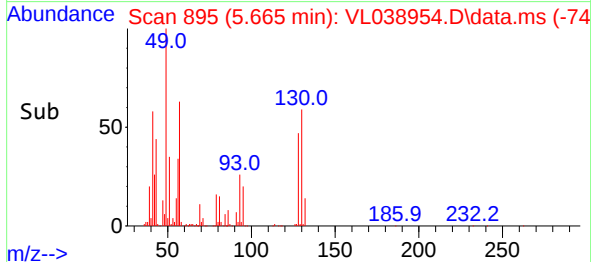
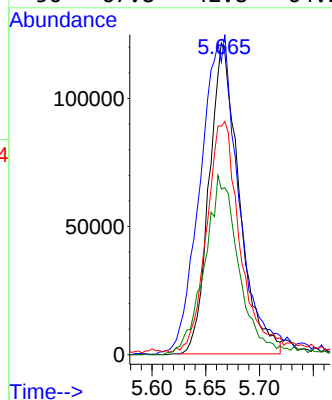
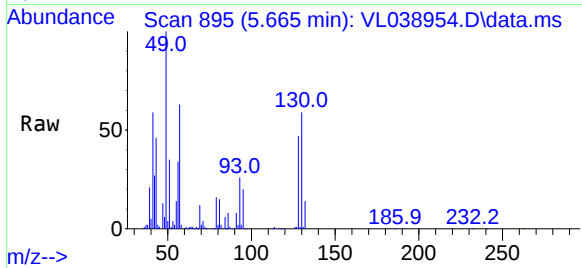




#26
Hexane
Concen: 1.926 ppbv
RT: 5.665 min Scan# 895
Delta R.T. -0.019 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

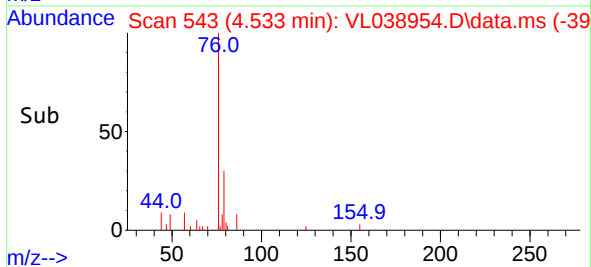
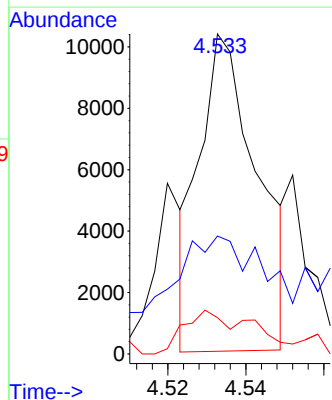
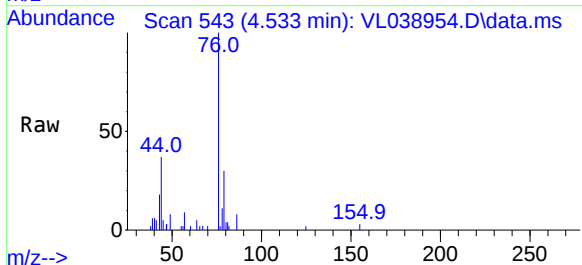
Instrument :
MSVOA_L
ClientSampleId :
QC041922 CAN 10598

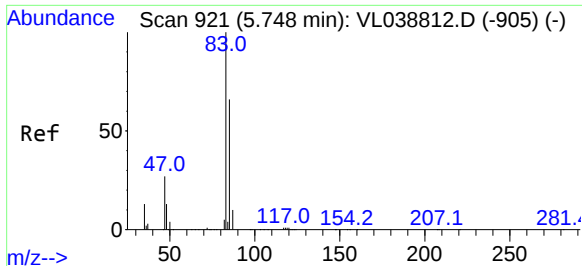
Tgt Ion: 57 Resp: 235207
Ion Ratio Lower Upper
57 100
41 136.7 72.0 108.0#
43 84.5 186.6 280.0#
56 67.8 42.8 64.2#



#27
Carbon Disulfide
Concen: 0.095 ppbv
RT: 4.533 min Scan# 543
Delta R.T. -0.013 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

Tgt Ion: 76 Resp: 10694
Ion Ratio Lower Upper
76 100
44 31.5 15.7 23.5#
78 20.3 7.8 11.8#





#29

Chloroform

Concen: 2.923 ppbv

RT: 5.729 min Scan# 915

Delta R.T. -0.019 min

Lab File: VL038954.D

Acq: 20 Apr 2022 9:04

Instrument :

MSVOA_L

ClientSampleId :

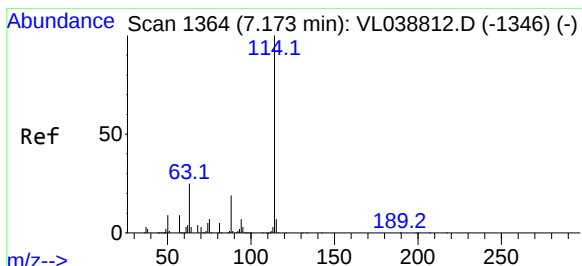
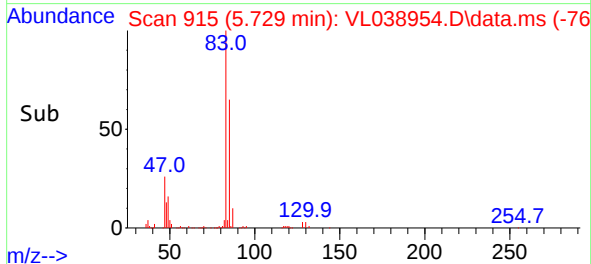
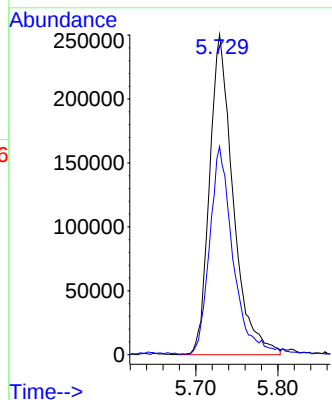
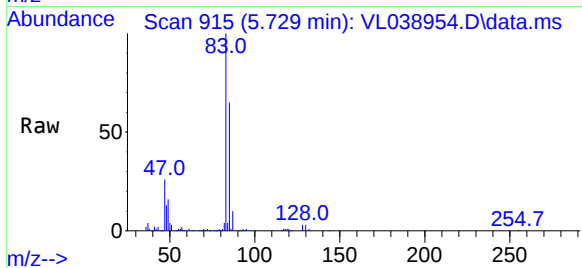
QC041922 CAN 10598

Tgt Ion: 83 Resp: 499439

Ion Ratio Lower Upper

83 100

85 64.8 52.5 78.7



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.147 min Scan# 1356

Delta R.T. -0.026 min

Lab File: VL038954.D

Acq: 20 Apr 2022 9:04

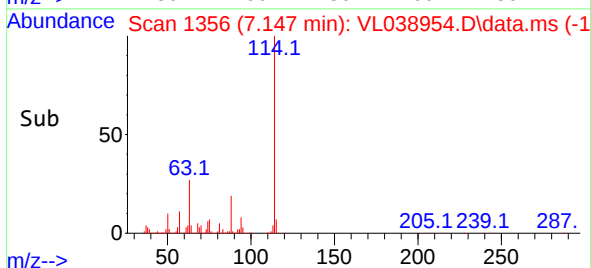
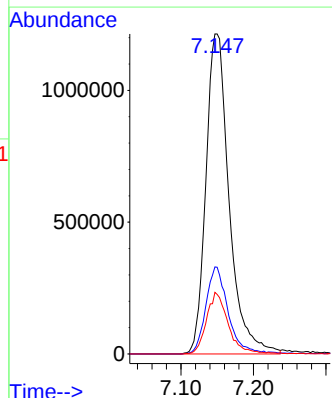
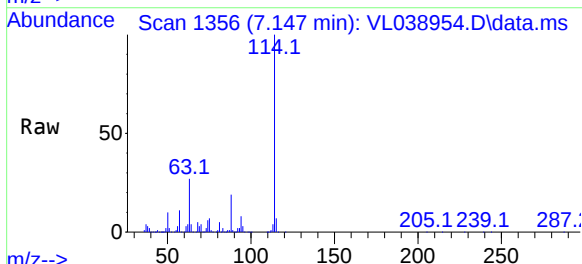
Tgt Ion: 114 Resp: 2702191

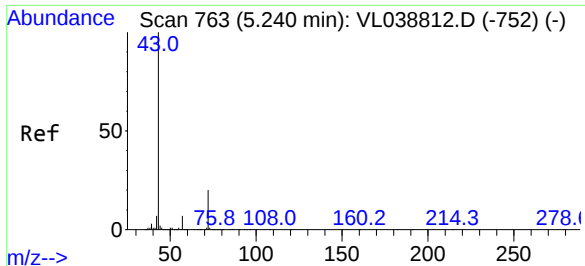
Ion Ratio Lower Upper

114 100

63 26.5 19.8 29.8

88 18.2 14.2 21.4

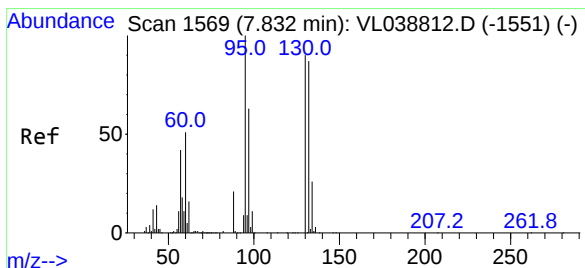
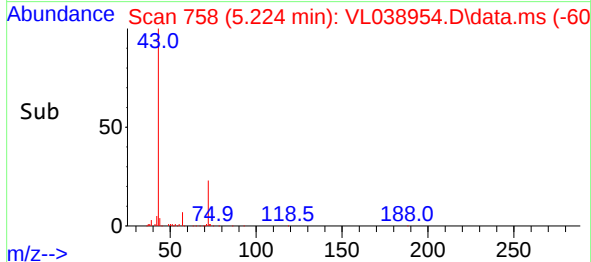
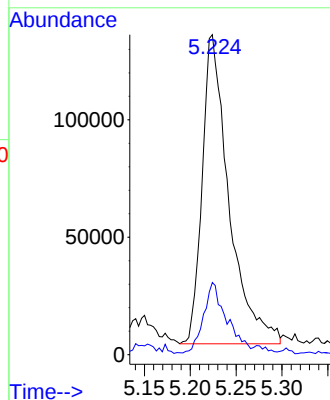
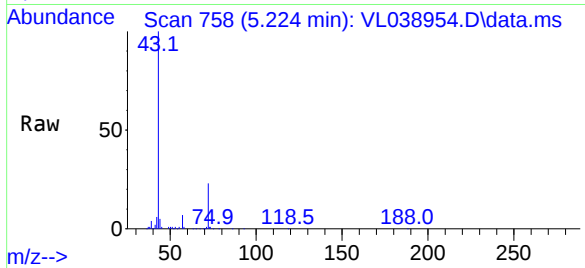




#34
2-Butanone
Concen: 2.504 ppbv
RT: 5.224 min Scan# 71
Delta R.T. -0.016 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

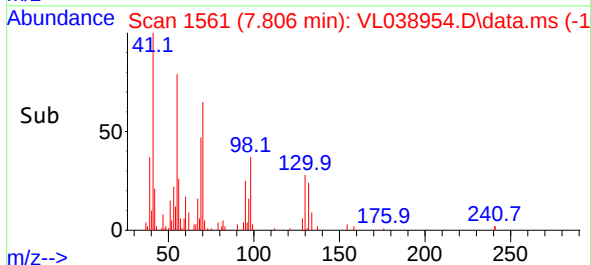
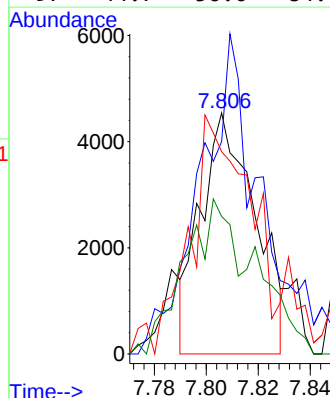
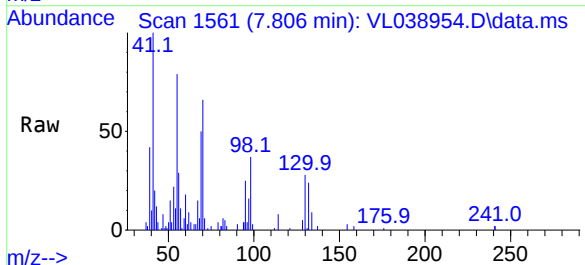
Instrument : MSVOA_L
ClientSampleId : QC041922 CAN 10598

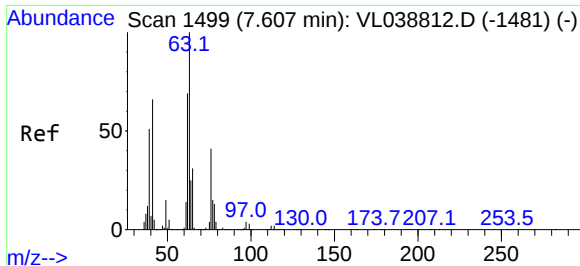
Tgt Ion: 43 Resp: 267343
Ion Ratio Lower Upper
43 100
72 22.9 16.9 25.3



#38
Trichloroethene
Concen: 0.066 ppbv
RT: 7.806 min Scan# 1561
Delta R.T. -0.026 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

Tgt Ion:130 Resp: 6635
Ion Ratio Lower Upper
130 100
95 72.3 89.4 134.0#
132 85.9 77.7 116.5
97 44.7 56.0 84.0#





#39

1,2-Dichloropropane

Concen: 7.420 ppbv

RT: 7.147 min Scan# 11

Delta R.T. -0.460 min

Lab File: VL038954.D

Acq: 20 Apr 2022 9:04

Instrument :

MSVOA_L

ClientSampleId :

QC041922 CAN 10598

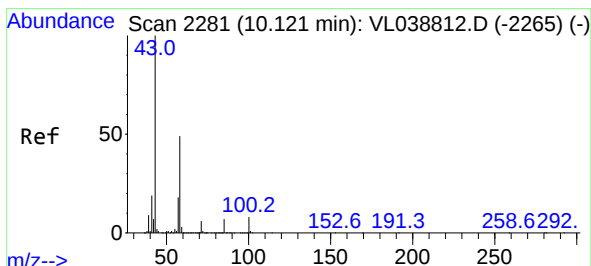
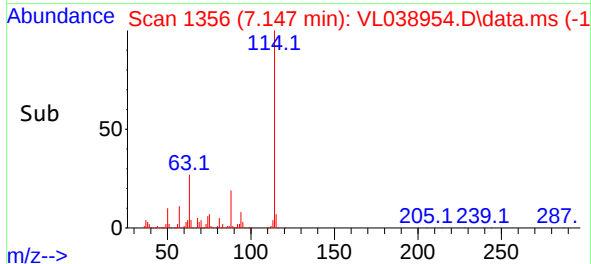
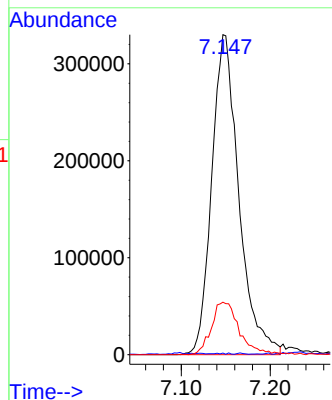
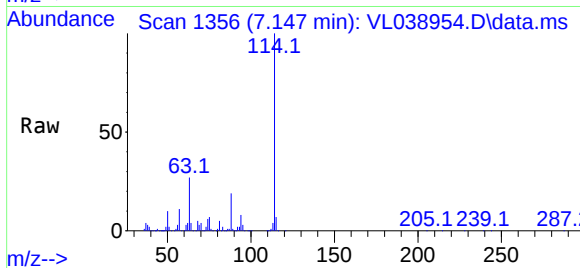
Tgt Ion: 63 Resp: 697637

Ion Ratio Lower Upper

63 100

41 0.3 53.0 79.6#

62 16.3 55.0 82.4#



#51

2-Hexanone

Concen: 0.669 ppbv

RT: 10.111 min Scan# 2278

Delta R.T. -0.010 min

Lab File: VL038954.D

Acq: 20 Apr 2022 9:04

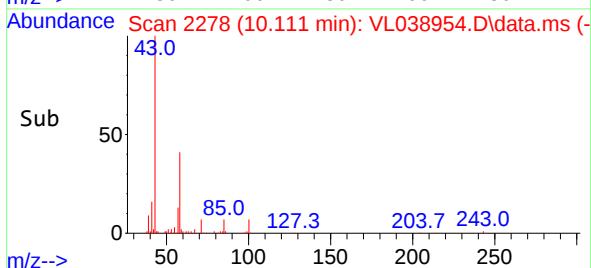
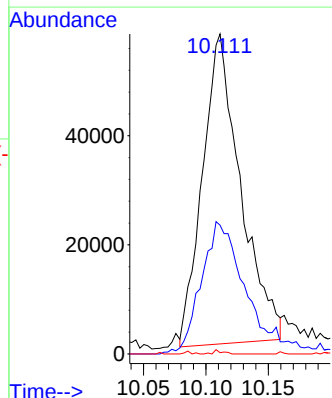
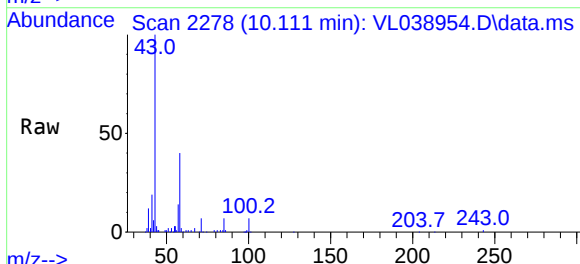
Tgt Ion: 43 Resp: 121136

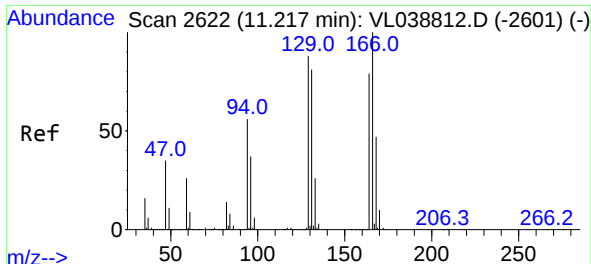
Ion Ratio Lower Upper

43 100

58 50.6 41.4 62.0

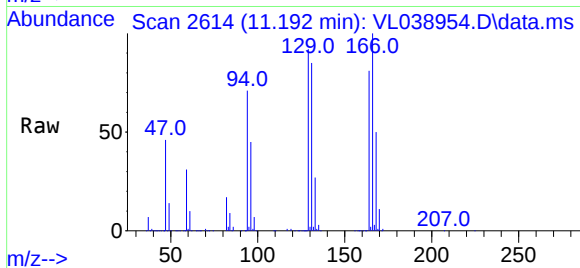
98 0.3 0.1 0.1#





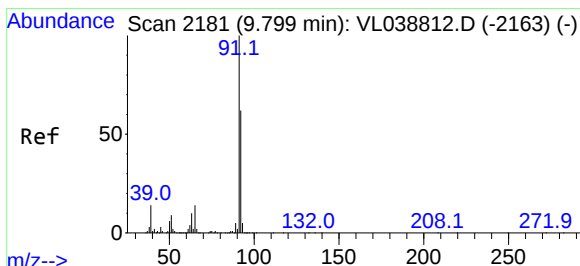
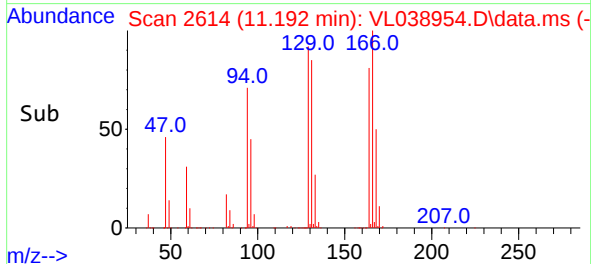
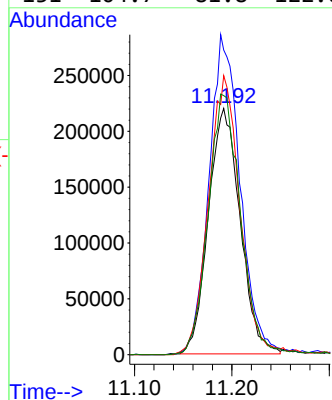
#52
Tetrachloroethene
Concen: 5.789 ppbv
RT: 11.192 min Scan# 21192
Delta R.T. -0.026 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

Instrument :
MSVOA_L
ClientSampleId :
QC041922 CAN 10598



Tgt Ion:164 Resp: 497087

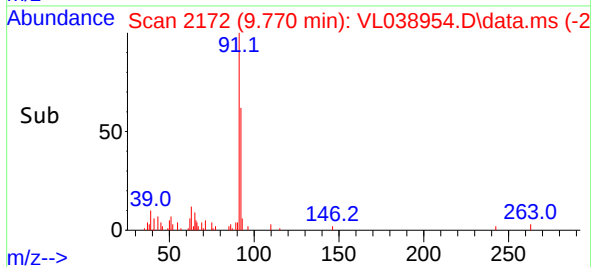
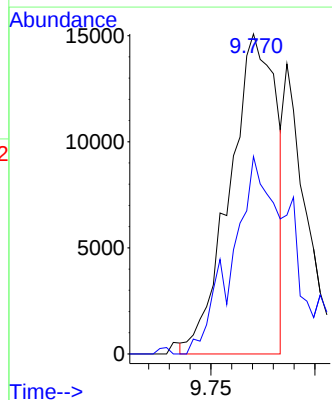
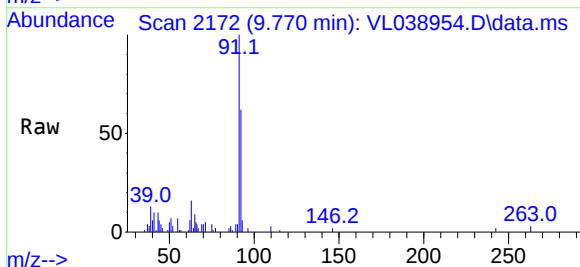
Ion	Ratio	Lower	Upper
164	100		
166	123.1	101.0	151.6
129	112.6	88.7	133.1
131	104.7	81.8	122.6

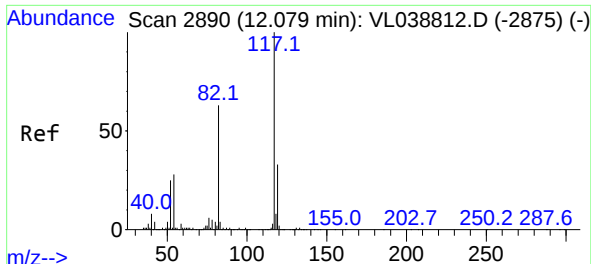


#53
Toluene
Concen: 0.083 ppbv
RT: 9.770 min Scan# 2172
Delta R.T. -0.029 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

Tgt Ion: 91 Resp: 23480

Ion	Ratio	Lower	Upper
91	100		
92	83.2	49.2	73.8#

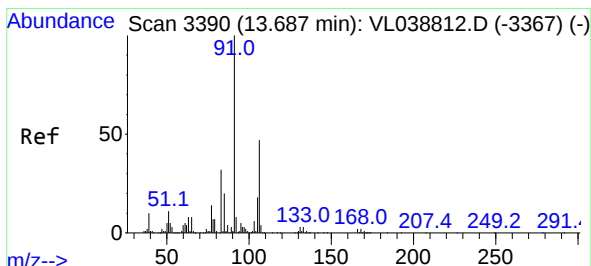
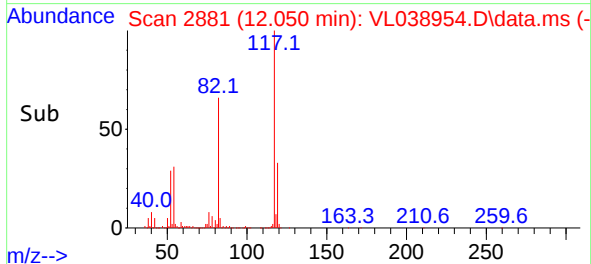
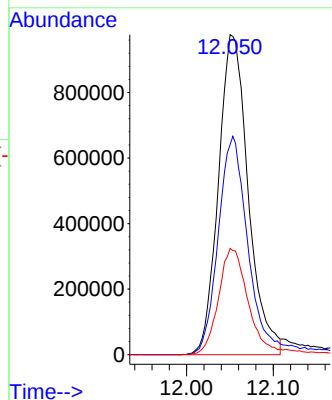
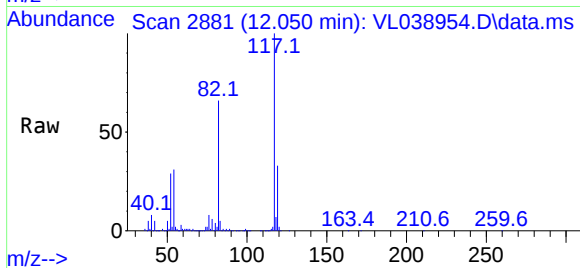




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.050 min Scan# 21
Delta R.T. -0.029 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

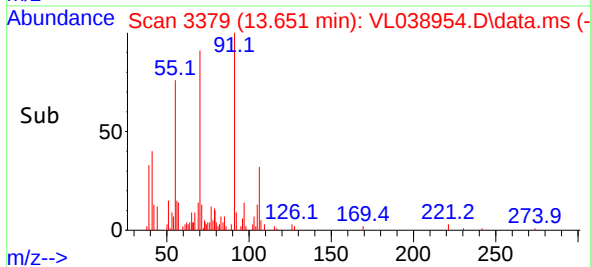
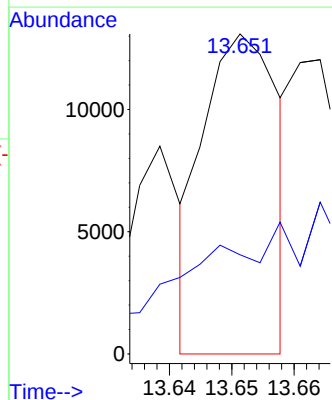
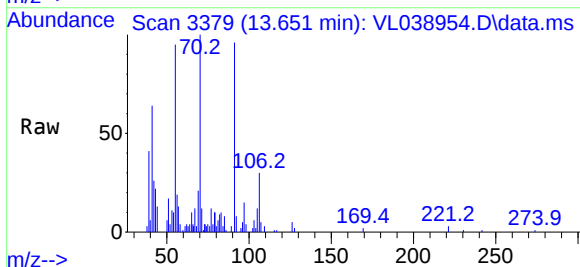
Instrument :
MSVOA_L
ClientSampleId :
QC041922 CAN 10598

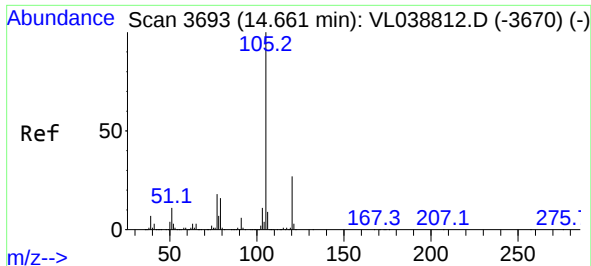
Tgt Ion: 117 Resp: 2332545
Ion Ratio Lower Upper
117 100
82 72.4 53.0 79.6
119 34.9 24.9 37.3



#60
o-Xylene
Concen: 0.040 ppbv
RT: 13.651 min Scan# 3379
Delta R.T. -0.035 min
Lab File: VL038954.D
Acq: 20 Apr 2022 9:04

Tgt Ion: 91 Resp: 10856
Ion Ratio Lower Upper
91 100
106 0.0 23.8 71.4#





#62

Isopropylbenzene

Concen: 0.071 ppbv

RT: 14.632 min Scan# 3066

Delta R.T. -0.029 min

Lab File: VL038954.D

Acq: 20 Apr 2022 9:04

Instrument :

MSVOA_L

ClientSampleId :

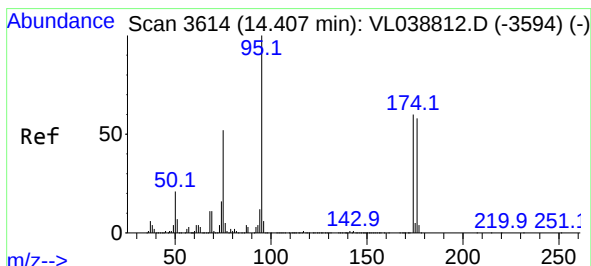
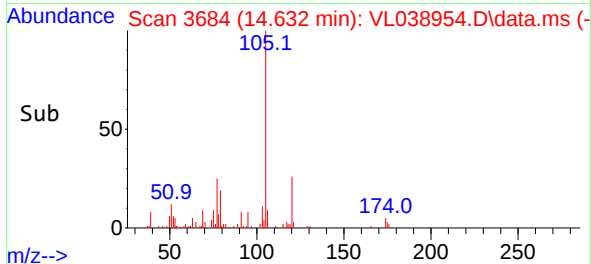
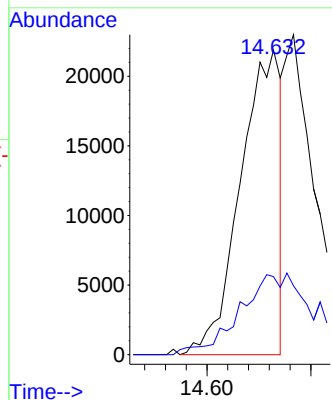
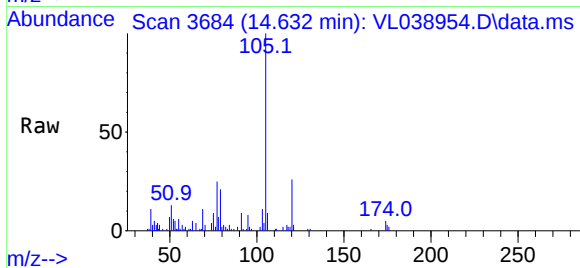
QC041922 CAN 10598

Tgt Ion:105 Resp: 29406

Ion Ratio Lower Upper

105 100

120 0.0 21.8 32.8#



#68

1-Bromo-4-Fluorobenzene

Concen: 11.045 ppbv

RT: 14.381 min Scan# 3606

Delta R.T. -0.026 min

Lab File: VL038954.D

Acq: 20 Apr 2022 9:04

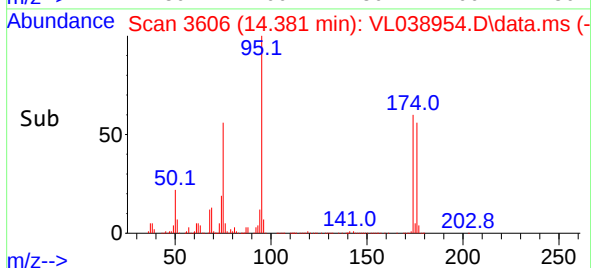
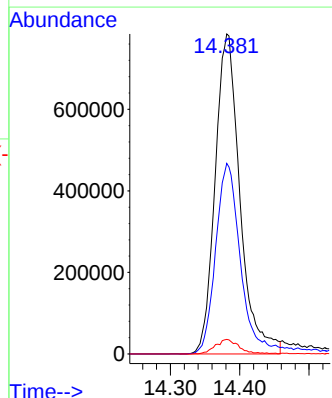
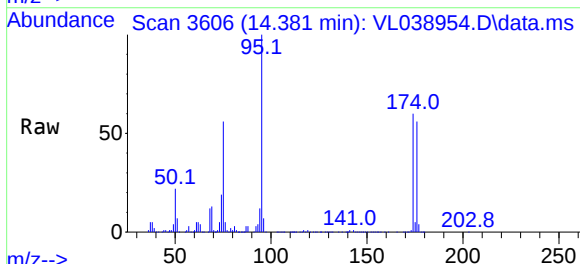
Tgt Ion: 95 Resp: 1954245

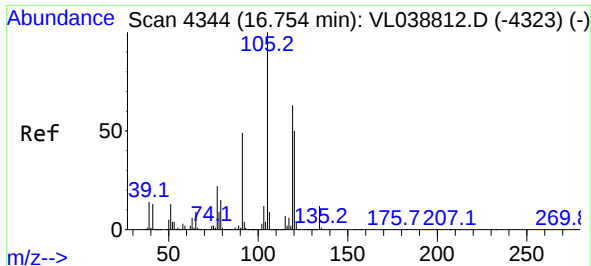
Ion Ratio Lower Upper

95 100

174 62.5 52.0 78.0

175 4.5 4.0 6.0





#74

1,2,4-Trimethylbenzene

Concen: 0.122 ppbv

RT: 16.728 min Scan# 41

Delta R.T. -0.026 min

Lab File: VL038954.D

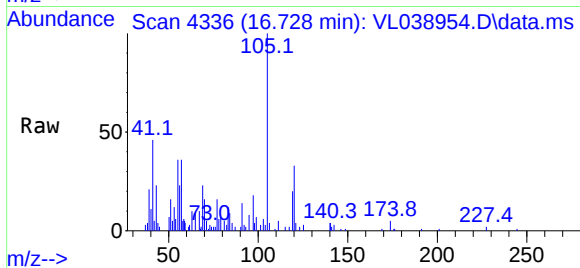
Acq: 20 Apr 2022 9:04

Instrument :

MSVOA_L

ClientSampleId :

QC041922 CAN 10598



Tgt Ion:105 Resp: 37863

Ion Ratio Lower Upper

105 100

120 32.9 39.8 59.8#

91 12.1 39.4 59.0#

77 13.9 17.3 25.9#

