

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111522\
 Data File : VW028992.D
 Acq On : 15 Nov 2022 16:32
 Operator : SY/MD
 Sample : N5628-02
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 COL12

Quant Time: Nov 16 03:20:15 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR111122WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Nov 16 03:16:14 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.612	114	271932	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.847	117	249164	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.242	152	116410	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	49342	2.976	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	59.600%
7) Chloroethane-d5	1.568	69	54962	3.771	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	75.400%
11) 1,1-Dichloroethene-d2	2.105	63	80107	2.652	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	53.000%#
20) 2-Butanone-d5	3.886	46	186904	67.349	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	134.700%#
24) Chloroform-d	4.342	84	152686	4.486	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.800%
26) 1,2-Dichloroethane-d4	5.027	65	74004	4.832	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.600%
32) Benzene-d6	5.047	84	303520	4.081	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.600%
36) 1,2-Dichloropropane-d6	6.066	67	94140	4.533	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.600%
41) Toluene-d8	7.310	98	256680	3.834	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.600%
43) trans-1,3-Dichloroprop...	7.619	79	26435	3.903	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.000%
46) 2-Hexanone-d5	8.088	63	155546	53.800	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.600%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	73512	5.106	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.200%
66) 1,2-Dichlorobenzene-d4	11.615	152	100297	4.816	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.400%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	1122	0.060	ug/L	95
5) Vinyl chloride	1.310	62	119764	5.581	ug/L	96
6) Bromomethane	1.523	94	1202	0.094	ug/L	82
8) Chloroethane	1.407	64	123595	9.801	ug/L #	52
12) 1,1-Dichloroethene	2.117	96	6772	0.411	ug/L #	1
18) trans-1,2-Dichloroethene	2.760	96	8342	0.437	ug/L	96
19) 1,1-Dichloroethane	3.191	63	3851	0.123	ug/L	98
22) cis-1,2-Dichloroethene	3.902	96	1739777	89.632	ug/L	96
25) Chloroform	4.368	83	3040	0.093	ug/L #	44
27) 1,2-Dichloroethane	5.050	62	1522	0.090	ug/L #	70
30) Cyclohexane	4.670	56	2645	0.089	ug/L #	68
33) Benzene	5.104	78	5445	0.072	ug/L	100
34) Trichloroethene	5.908	95	3187887	163.543	ug/L	99
35) Methylcyclohexane	6.120	83	3361	0.098	ug/L #	68
37) 1,2-Dichloropropane	6.063	63	10140	0.577	ug/L #	85
39) cis-1,3-Dichloropropene	6.982	75	2090	0.085	ug/L #	52
40) 4-Methyl-2-pentanone	7.239	43	7766	1.028	ug/L #	78
42) Toluene	7.381	91	665674	8.093	ug/L	100
47) Tetrachloroethene	7.972	164	1768	0.113	ug/L #	82

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111522\
 Data File : VV028992.D
 Acq On : 15 Nov 2022 16:32
 Operator : SY/MD
 Sample : N5628-02
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 COL12

Quant Time: Nov 16 03:20:15 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR111122WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Nov 16 03:16:14 2022
 Response via : Initial Calibration

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

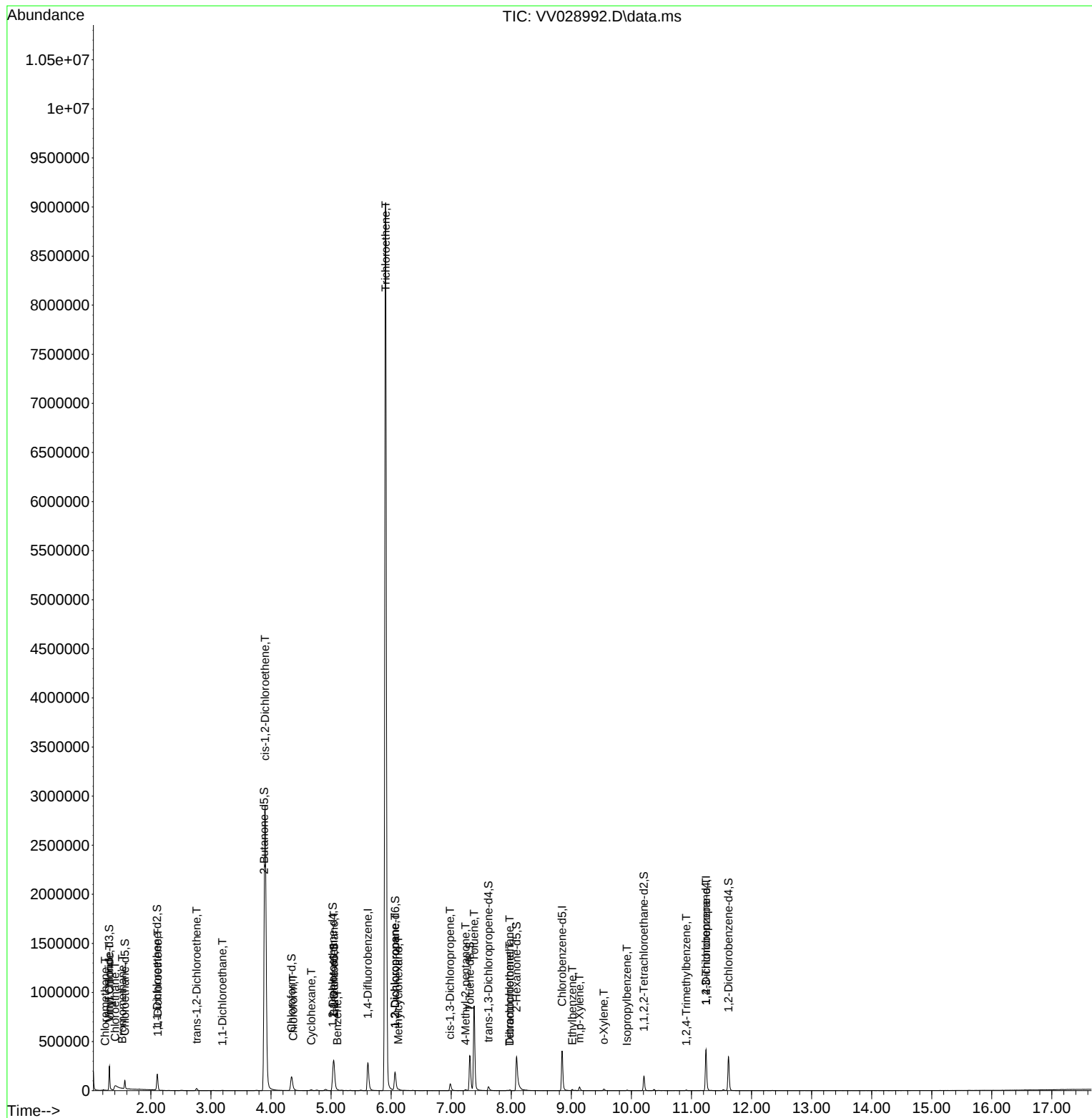
49) Dibromochloromethane	7.972	129	1715	0.123	ug/L #	10
52) Ethylbenzene	9.014	91	9003	0.105	ug/L	90
53) m,p-Xylene	9.136	106	11571	0.340	ug/L	98
54) o-Xylene	9.542	106	5345	0.165	ug/L	78
60) Isopropylbenzene	9.927	105	5006	0.066	ug/L	97
61) 1,2,3-Trichloropropane	11.242	75	11813	1.485	ug/L #	63
63) 1,2,4-Trimethylbenzene	10.914	105	4209	0.066	ug/L	97

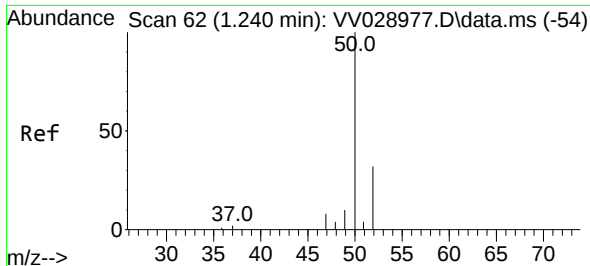
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111522\
Data File : VV028992.D
Acq On : 15 Nov 2022 16:32
Operator : SY/MD
Sample : N5628-02
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
COL12

Quant Time: Nov 16 03:20:15 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR111122WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Nov 16 03:16:14 2022
Response via : Initial Calibration

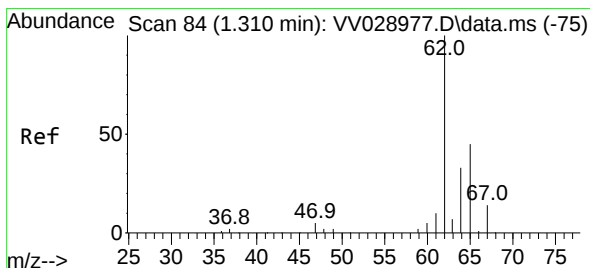
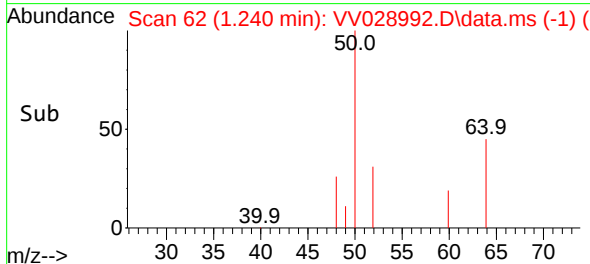
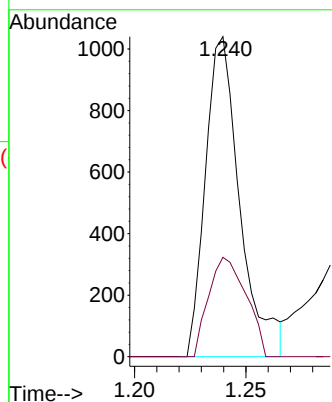
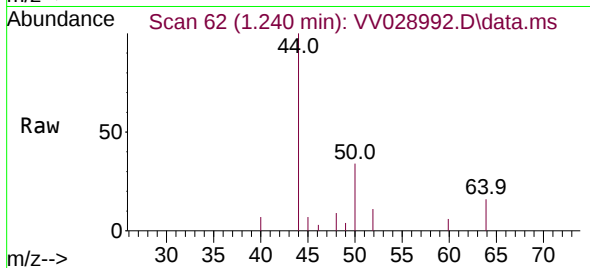




#3
Chloromethane
Concen: 0.060 ug/L
RT: 1.240 min Scan# 61
Delta R.T. -0.000 min
Lab File: VV028992.D
Acq: 15 Nov 2022 16:32

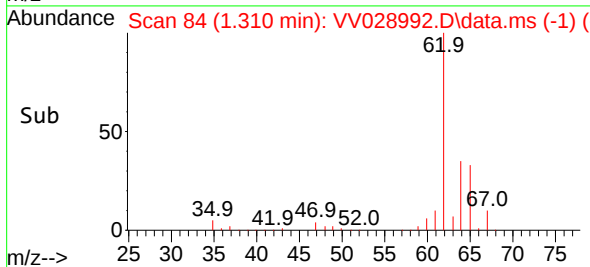
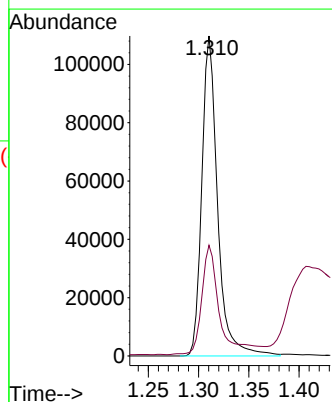
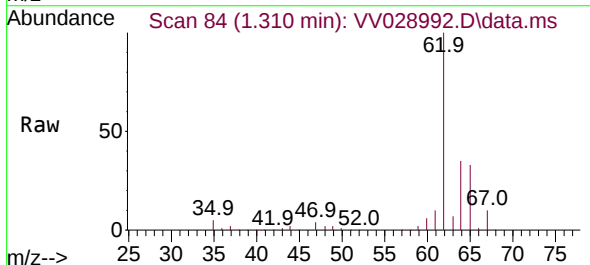
Instrument :
MSVOA_V
ClientSampleId :
COL12

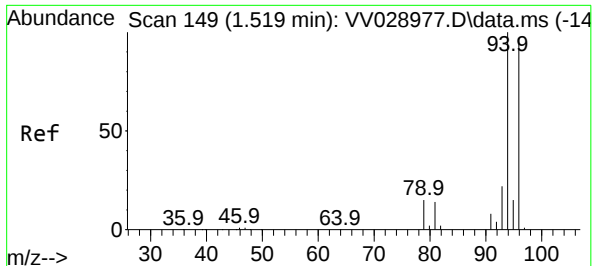
Tgt Ion: 50 Resp: 1122
Ion Ratio Lower Upper
50 100
52 31.1 23.7 43.9



#5
Vinyl chloride
Concen: 5.581 ug/L
RT: 1.310 min Scan# 84
Delta R.T. -0.000 min
Lab File: VV028992.D
Acq: 15 Nov 2022 16:32

Tgt Ion: 62 Resp: 119764
Ion Ratio Lower Upper
62 100
64 34.6 22.8 42.4

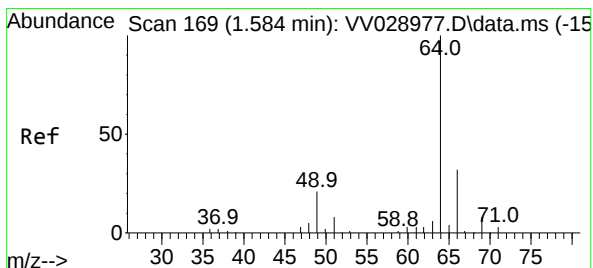
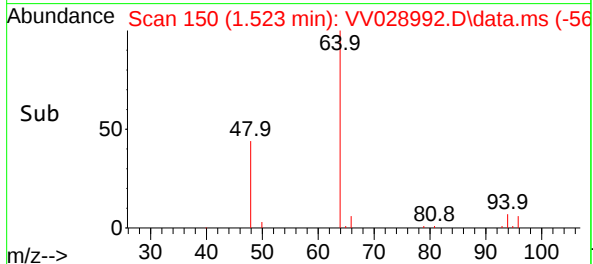
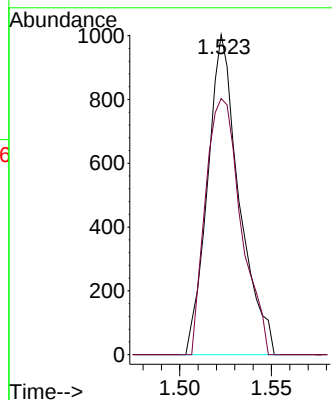
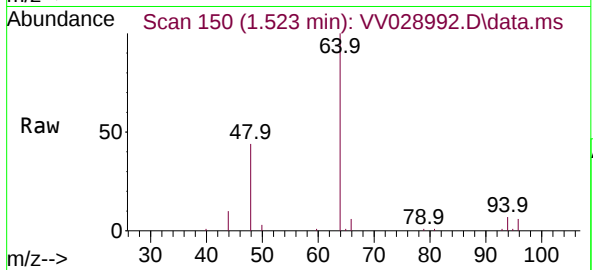




#6
Bromomethane
Concen: 0.094 ug/L
RT: 1.523 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV028992.D
Acq: 15 Nov 2022 16:32

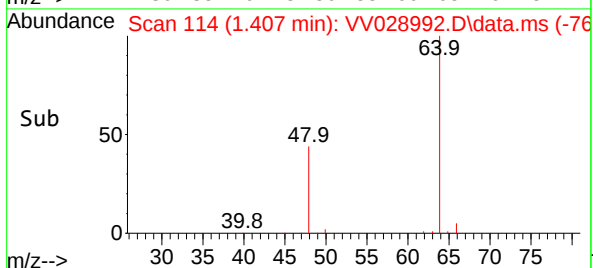
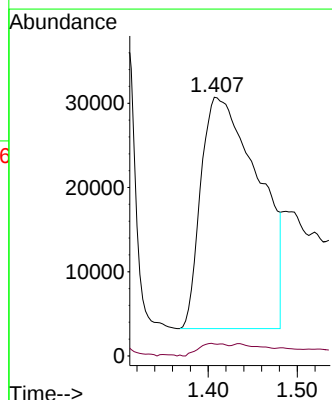
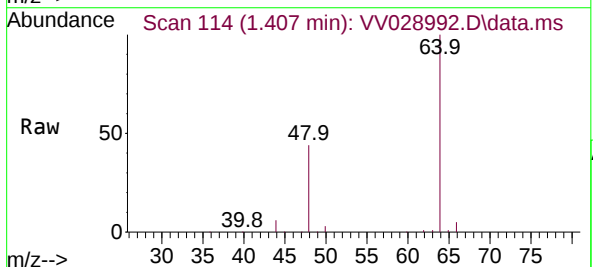
Instrument :
MSVOA_V
ClientSampleId :
COL12

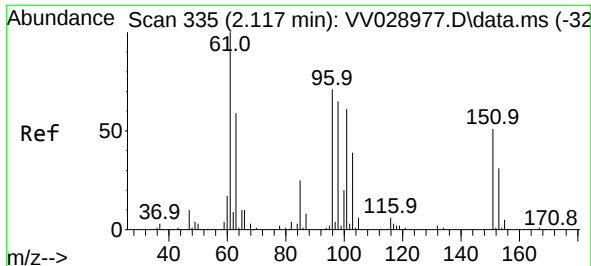
Tgt Ion: 94 Resp: 1202
Ion Ratio Lower Upper
94 100
96 80.1 68.5 127.3



#8
Chloroethane
Concen: 9.801 ug/L
RT: 1.407 min Scan# 114
Delta R.T. -0.177 min
Lab File: VV028992.D
Acq: 15 Nov 2022 16:32

Tgt Ion: 64 Resp: 123595
Ion Ratio Lower Upper
64 100
66 4.6 22.0 40.8#





#12

1,1-Dichloroethene

Concen: 0.411 ug/L

RT: 2.117 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV028992.D

Acq: 15 Nov 2022 16:32

Instrument :

MSVOA_V

ClientSampleId :

COL12

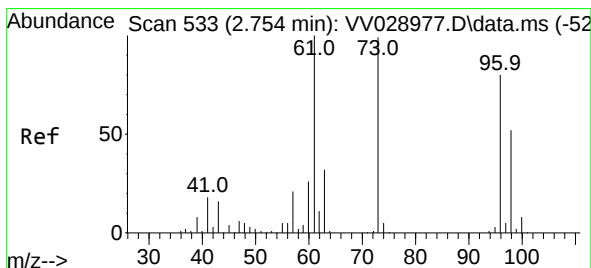
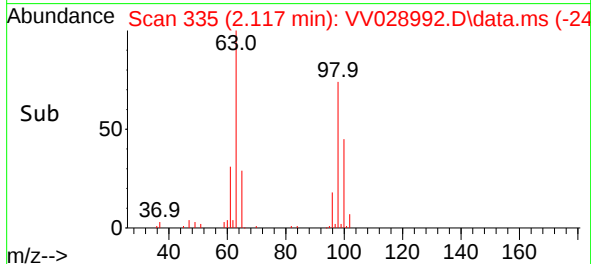
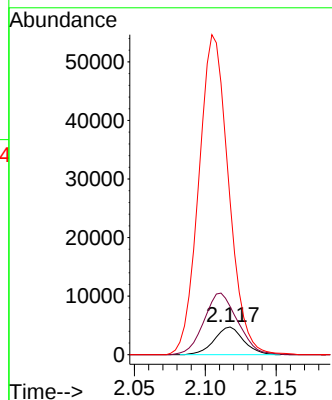
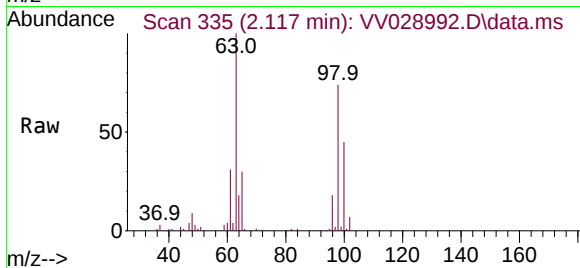
Tgt Ion: 96 Resp: 6772

Ion Ratio Lower Upper

96 100

61 173.9 104.2 193.4

63 554.4 75.9 140.9#



#18

trans-1,2-Dichloroethene

Concen: 0.437 ug/L

RT: 2.760 min Scan# 535

Delta R.T. 0.006 min

Lab File: VV028992.D

Acq: 15 Nov 2022 16:32

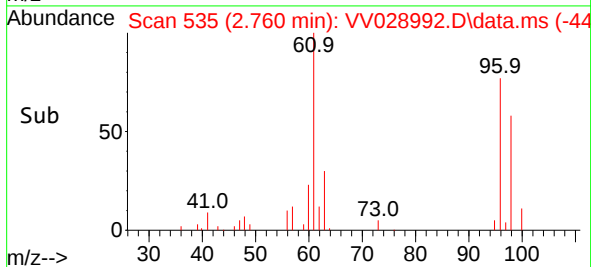
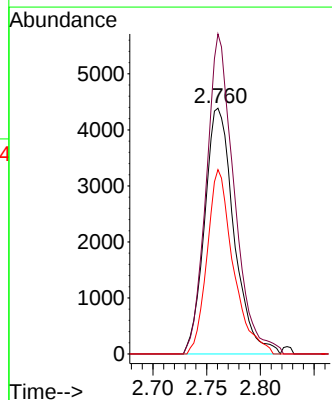
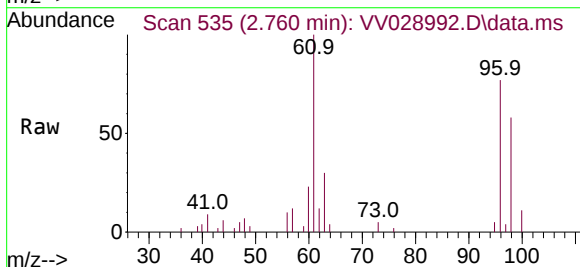
Tgt Ion: 96 Resp: 8342

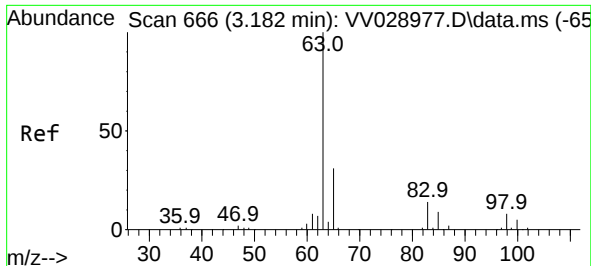
Ion Ratio Lower Upper

96 100

61 130.2 91.8 170.6

98 75.0 46.4 86.2





#19

1,1-Dichloroethane

Concen: 0.123 ug/L

RT: 3.191 min Scan# 6

Delta R.T. 0.010 min

Lab File: VV028992.D

Acq: 15 Nov 2022 16:32

Instrument :

MSVOA_V

ClientSampleId :

COL12

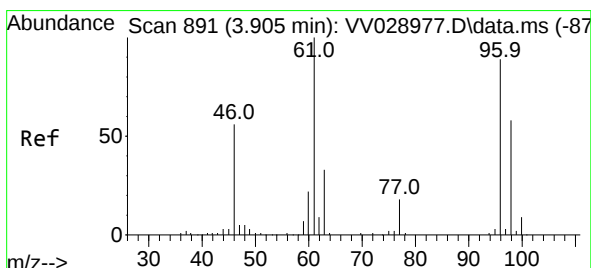
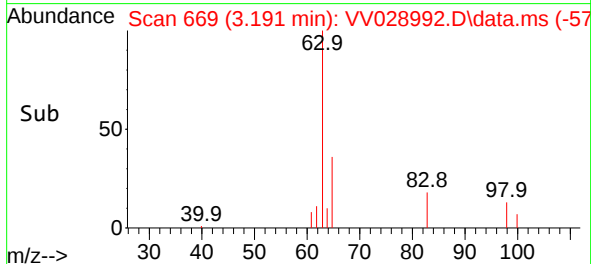
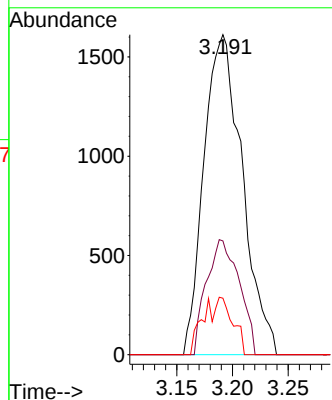
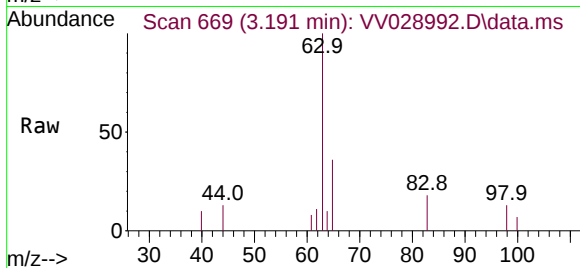
Tgt Ion: 63 Resp: 3851

Ion Ratio Lower Upper

63 100

65 32.4 23.0 42.6

83 16.1 9.4 17.6



#22

cis-1,2-Dichloroethene

Concen: 89.632 ug/L

RT: 3.902 min Scan# 890

Delta R.T. -0.003 min

Lab File: VV028992.D

Acq: 15 Nov 2022 16:32

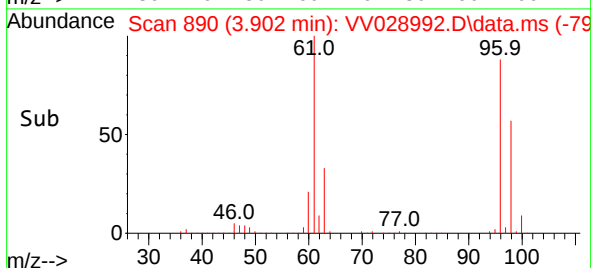
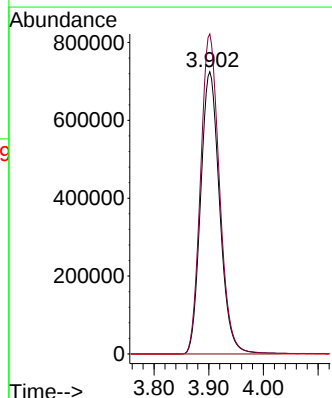
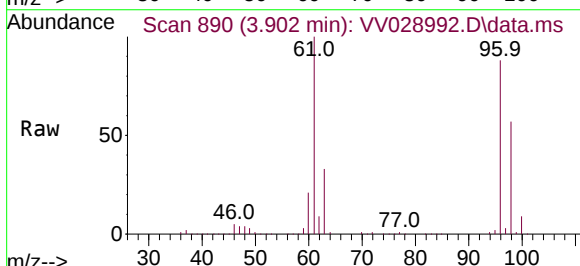
Tgt Ion: 96 Resp: 1739777

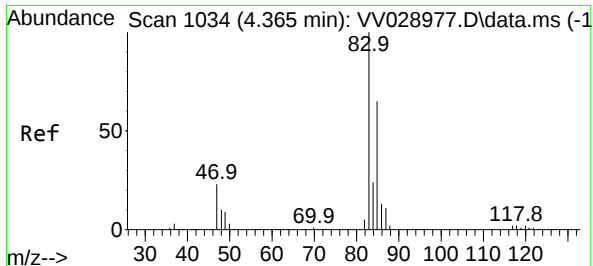
Ion Ratio Lower Upper

96 100

61 113.4 82.3 152.9

68 0.0 0.0 0.0





#25

Chloroform

Concen: 0.093 ug/L

RT: 4.368 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV028992.D

Acq: 15 Nov 2022 16:32

Instrument :

MSVOA_V

ClientSampleId :

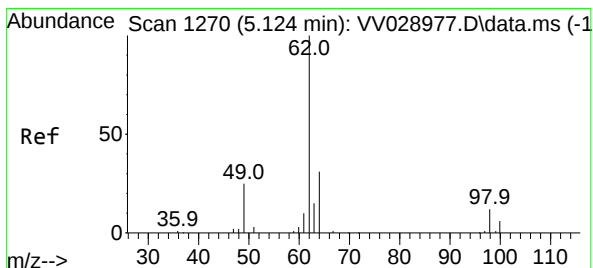
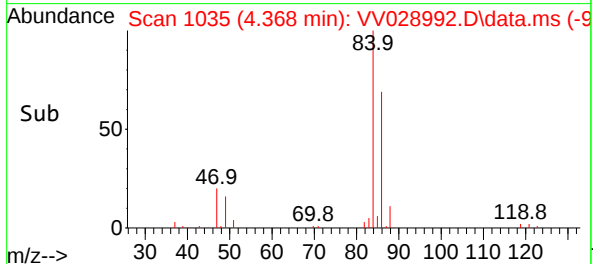
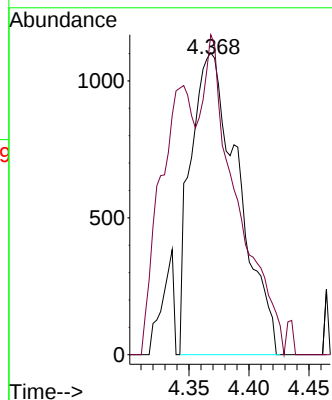
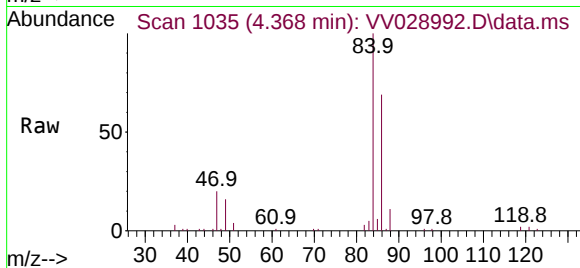
COL12

Tgt Ion: 83 Resp: 3040

Ion Ratio Lower Upper

83 100

85 106.0 43.7 81.1#



#27

1,2-Dichloroethane

Concen: 0.090 ug/L

RT: 5.050 min Scan# 1247

Delta R.T. -0.074 min

Lab File: VV028992.D

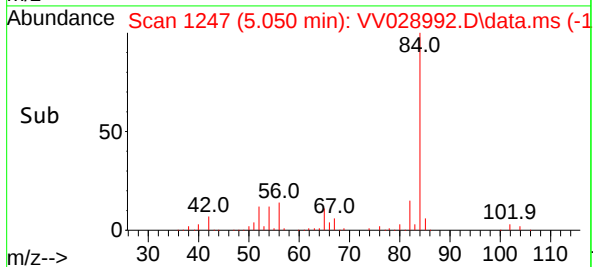
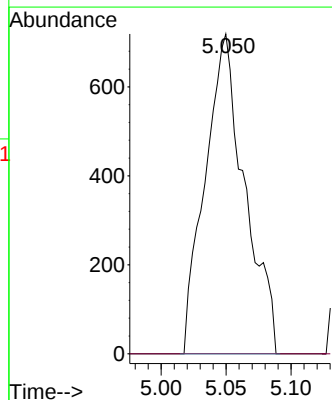
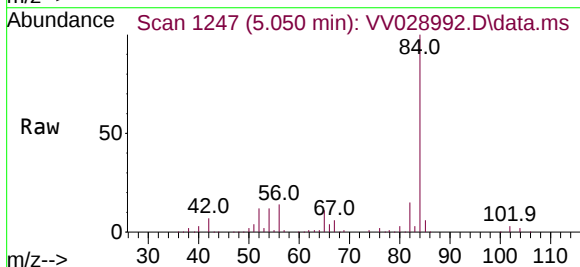
Acq: 15 Nov 2022 16:32

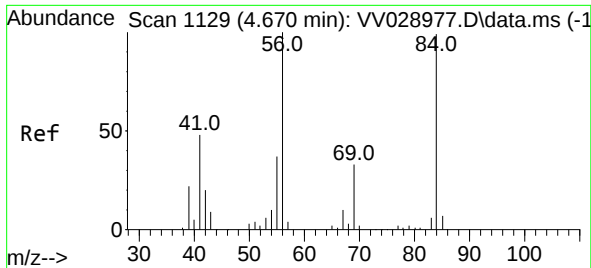
Tgt Ion: 62 Resp: 1522

Ion Ratio Lower Upper

62 100

98 0.0 9.0 13.6#

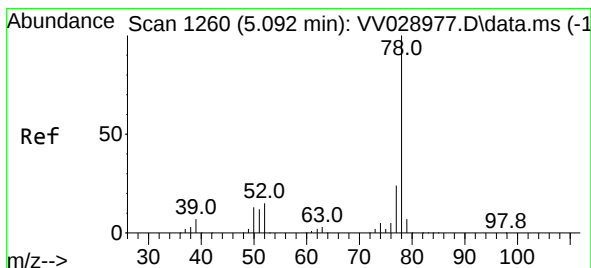
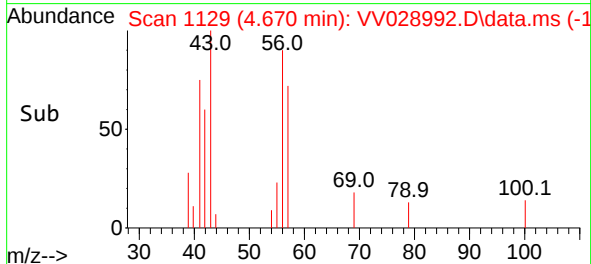
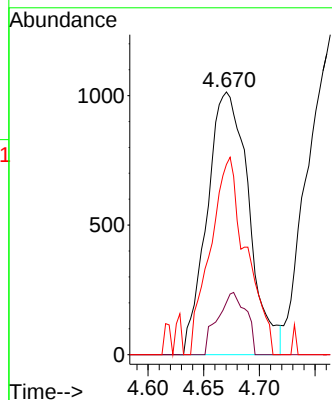
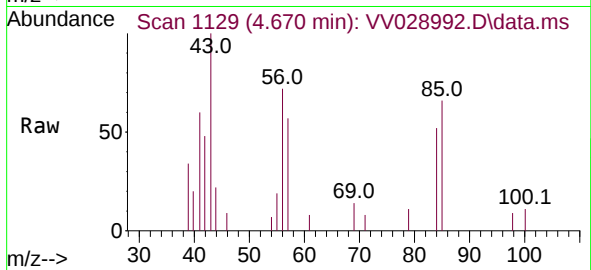




#30
Cyclohexane
Concen: 0.089 ug/L
RT: 4.670 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VV028992.D
Acq: 15 Nov 2022 16:32

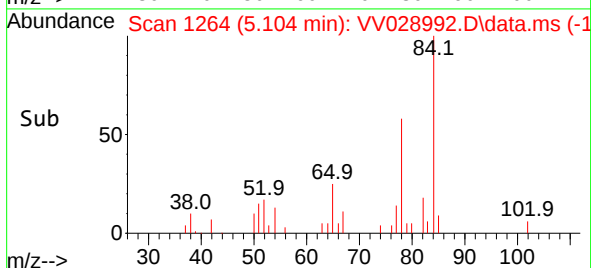
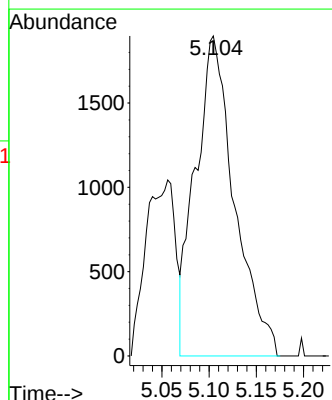
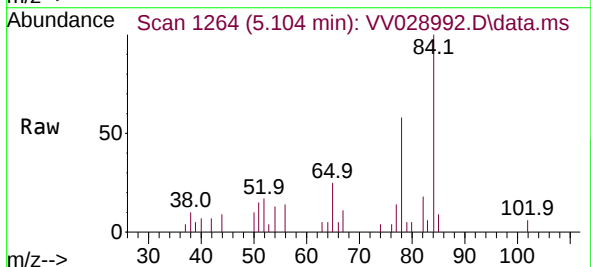
Instrument :
MSVOA_V
ClientSampleId :
COL12

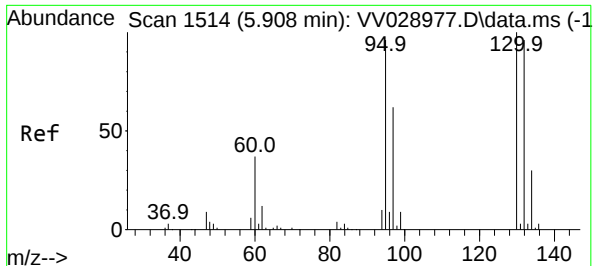
Tgt Ion: 56 Resp: 2645
Ion Ratio Lower Upper
56 100
69 16.1 26.1 39.1#
84 64.6 77.9 116.9#



#33
Benzene
Concen: 0.072 ug/L
RT: 5.104 min Scan# 1264
Delta R.T. 0.013 min
Lab File: VV028992.D
Acq: 15 Nov 2022 16:32

Tgt Ion: 78 Resp: 5445





#34

Trichloroethene

Concen: 163.543 ug/L

RT: 5.908 min Scan# 1

Delta R.T. -0.000 min

Lab File: VV028992.D

Acq: 15 Nov 2022 16:32

Instrument :

MSVOA_V

ClientSampleId :

COL12

Tgt Ion: 95 Resp: 3187887

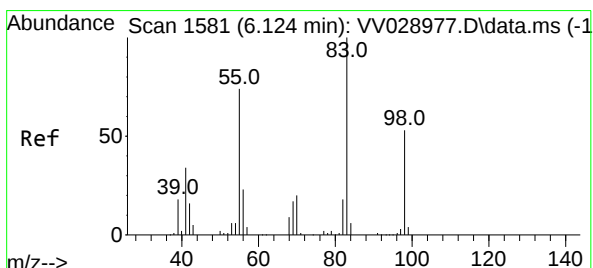
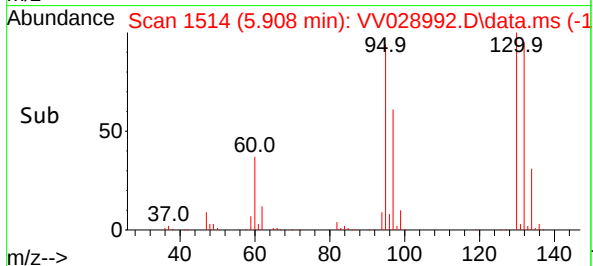
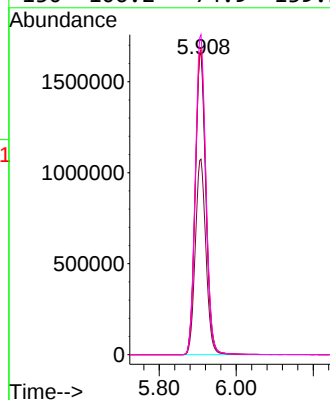
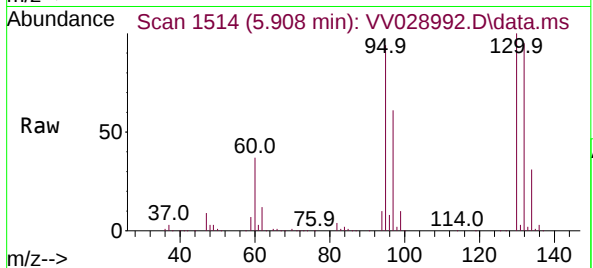
Ion Ratio Lower Upper

95 100

97 64.9 45.6 84.8

132 101.3 69.1 128.3

130 106.2 74.9 139.1



#35

Methylcyclohexane

Concen: 0.098 ug/L

RT: 6.120 min Scan# 1580

Delta R.T. -0.003 min

Lab File: VV028992.D

Acq: 15 Nov 2022 16:32

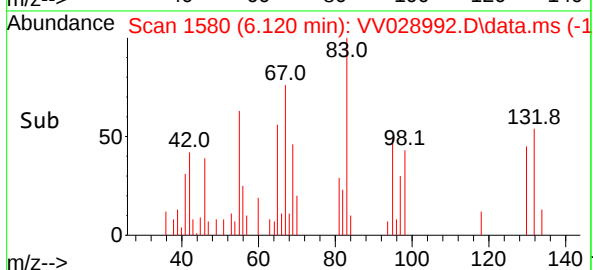
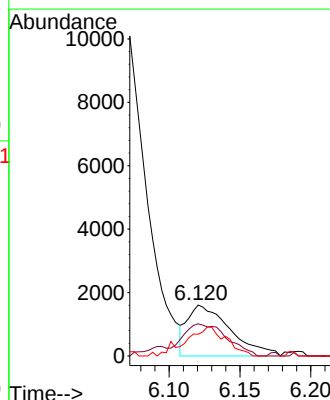
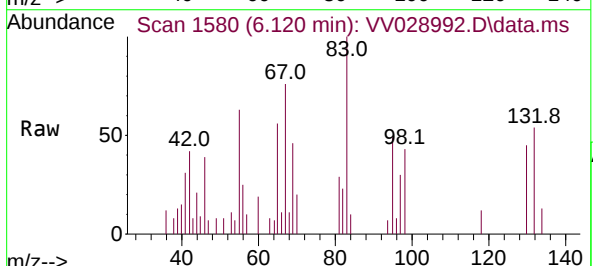
Tgt Ion: 83 Resp: 3361

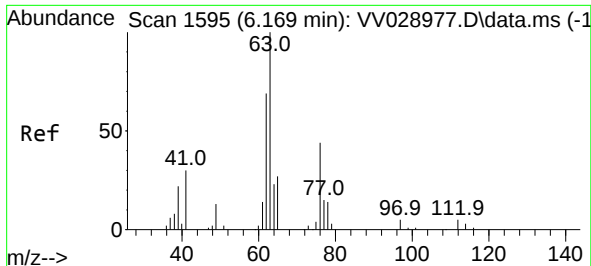
Ion Ratio Lower Upper

83 100

55 65.8 55.8 83.6

98 0.0 38.2 57.2#





#37

1,2-Dichloropropane

Concen: 0.577 ug/L

RT: 6.063 min Scan# 11

Delta R.T. -0.106 min

Lab File: VV028992.D

Acq: 15 Nov 2022 16:32

Instrument :

MSVOA_V

ClientSampleId :

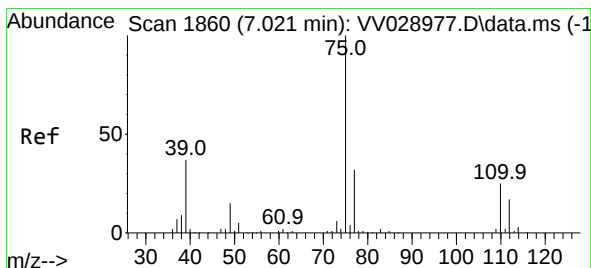
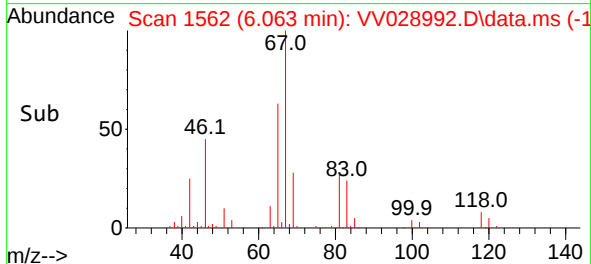
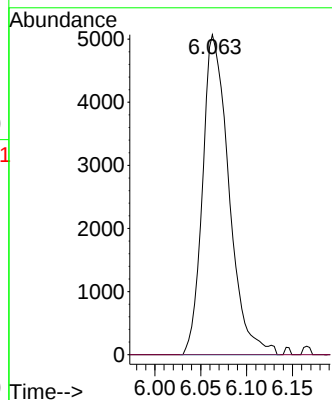
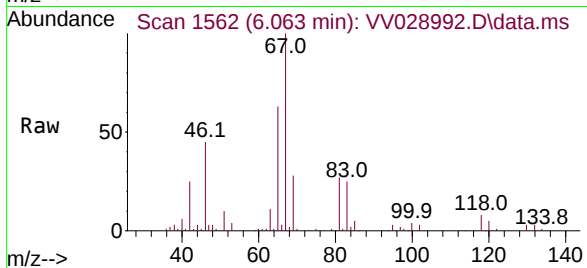
COL12

Tgt Ion: 63 Resp: 10140

Ion Ratio Lower Upper

63 100

112 0.0 4.0 6.0#



#39

cis-1,3-Dichloropropene

Concen: 0.085 ug/L

RT: 6.982 min Scan# 1848

Delta R.T. -0.039 min

Lab File: VV028992.D

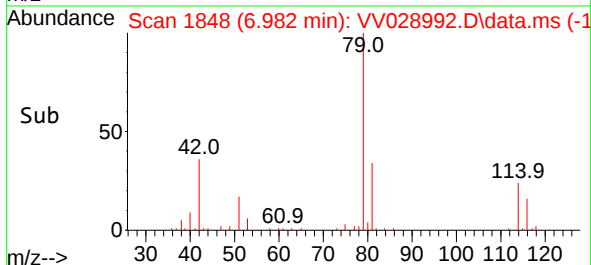
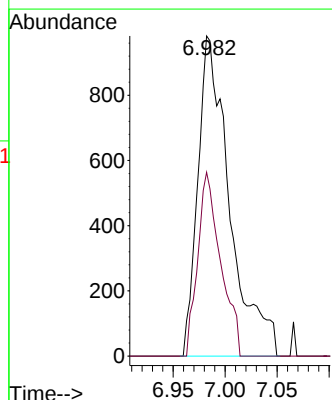
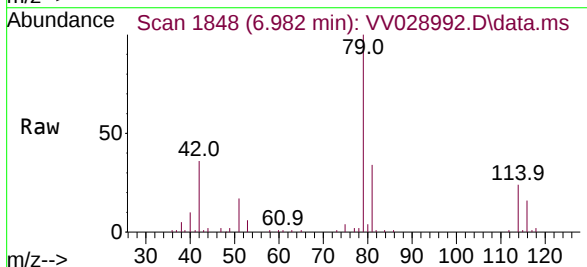
Acq: 15 Nov 2022 16:32

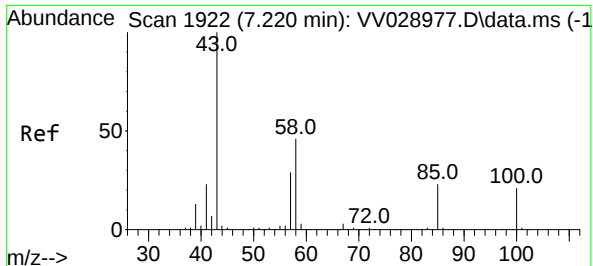
Tgt Ion: 75 Resp: 2090

Ion Ratio Lower Upper

75 100

77 57.4 21.8 40.6#





#40

4-Methyl-2-pentanone

Concen: 1.028 ug/L

RT: 7.239 min Scan# 1928

Delta R.T. 0.019 min

Lab File: VV028992.D

Acq: 15 Nov 2022 16:32

Instrument :

MSVOA_V

ClientSampleId :

COL12

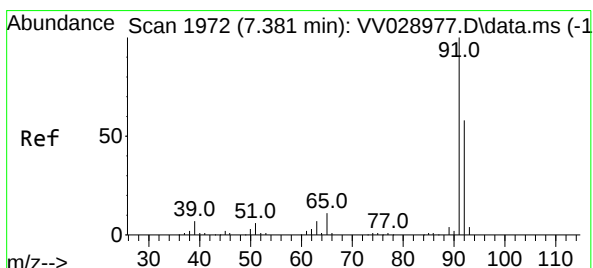
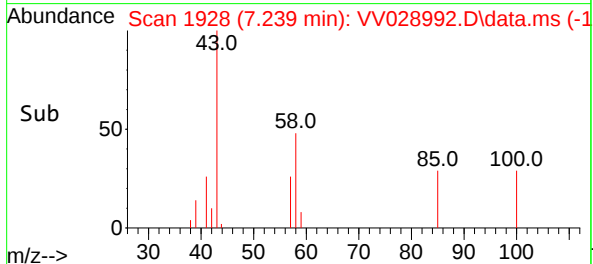
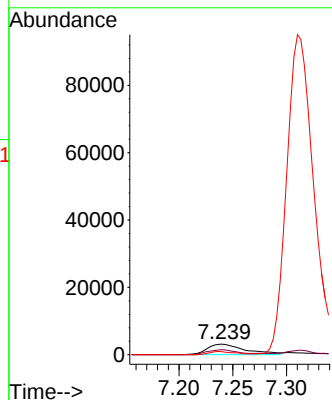
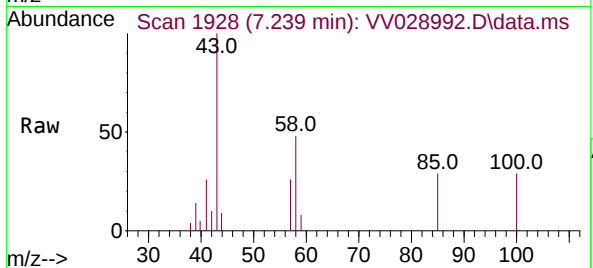
Tgt Ion: 43 Resp: 7766

Ion Ratio Lower Upper

43 100

58 36.1 36.6 55.0#

100 0.0 14.5 21.7#



#42

Toluene

Concen: 8.093 ug/L

RT: 7.381 min Scan# 1972

Delta R.T. -0.000 min

Lab File: VV028992.D

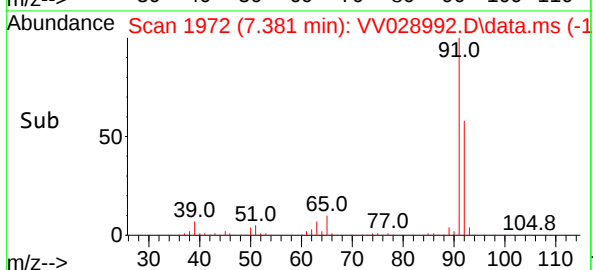
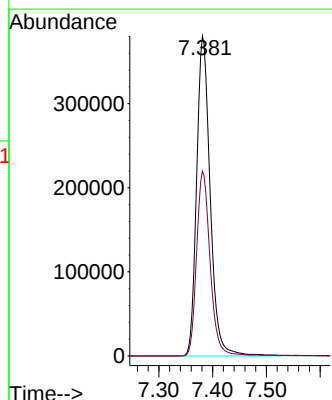
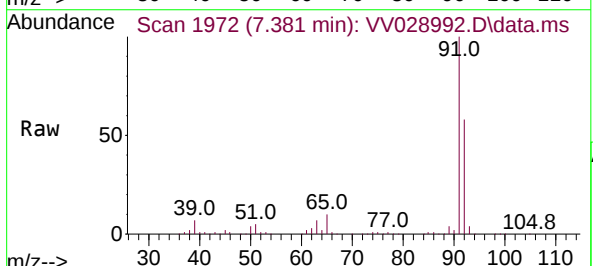
Acq: 15 Nov 2022 16:32

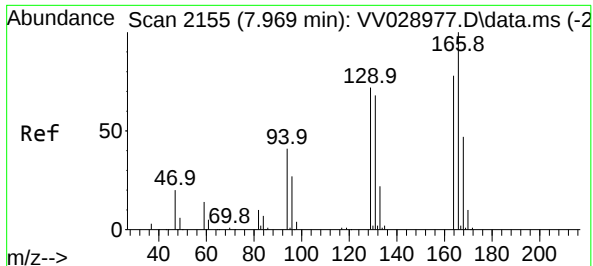
Tgt Ion: 91 Resp: 665674

Ion Ratio Lower Upper

91 100

92 57.7 40.7 75.5





#47

Tetrachloroethene

Concen: 0.113 ug/L

RT: 7.972 min Scan# 2156

Delta R.T. 0.003 min

Lab File: VV028992.D

Acq: 15 Nov 2022 16:32

Instrument :

MSVOA_V

ClientSampleId :

COL12

Tgt Ion:164 Resp: 1768

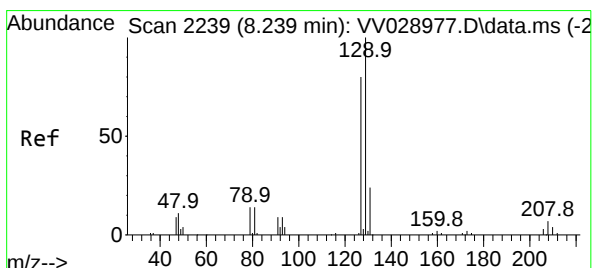
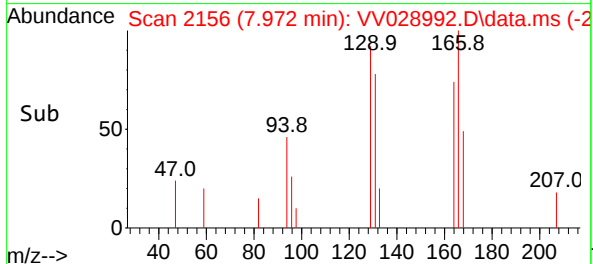
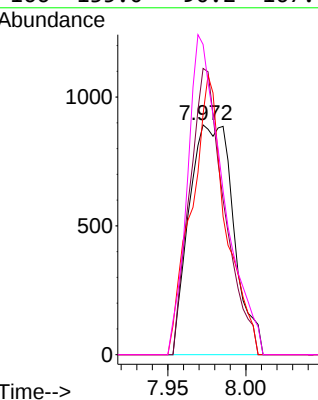
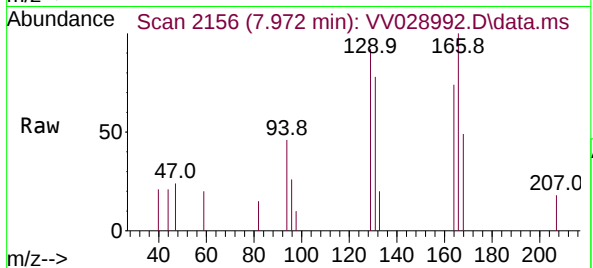
Ion Ratio Lower Upper

164 100

129 124.6 63.9 118.7#

131 104.7 61.8 114.8

166 135.0 90.2 167.4



#49

Dibromochloromethane

Concen: 0.123 ug/L

RT: 7.972 min Scan# 2156

Delta R.T. -0.267 min

Lab File: VV028992.D

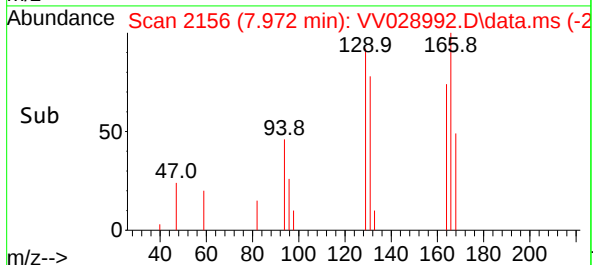
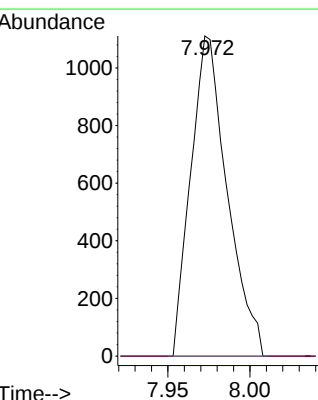
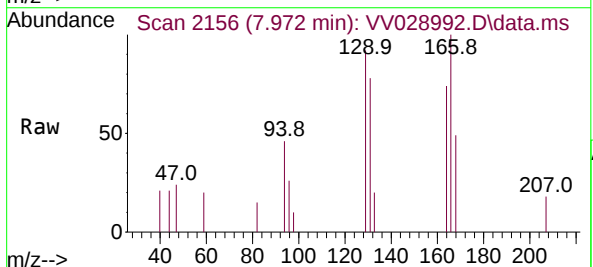
Acq: 15 Nov 2022 16:32

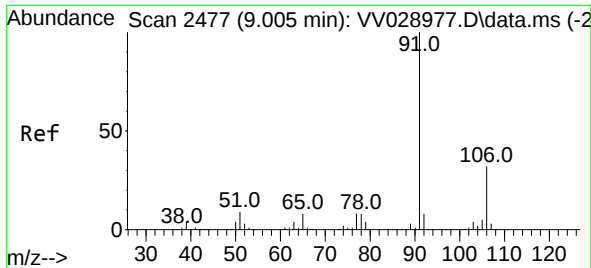
Tgt Ion:129 Resp: 1715

Ion Ratio Lower Upper

129 100

127 0.0 54.5 101.1#

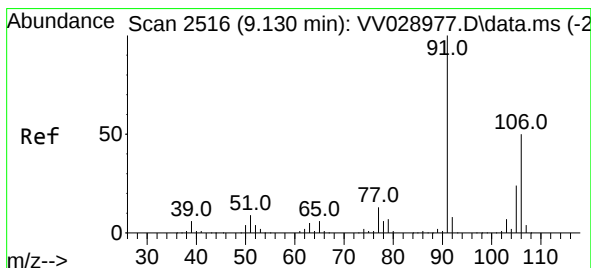
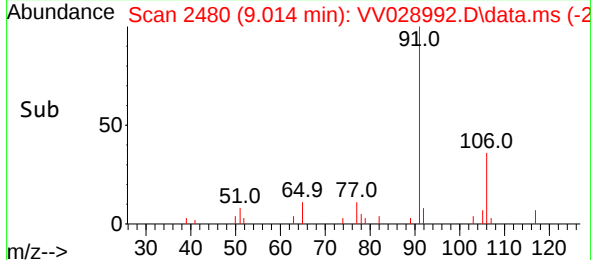
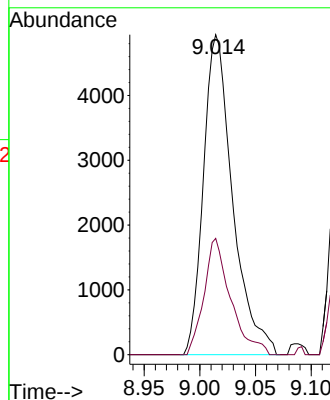
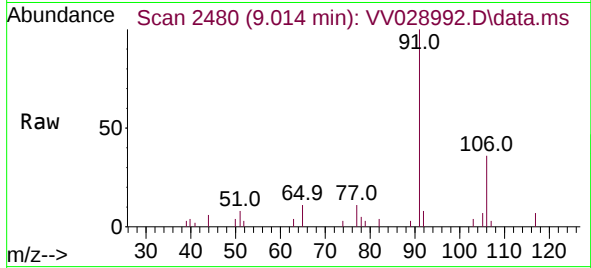




#52
Ethylbenzene
Concen: 0.105 ug/L
RT: 9.014 min Scan# 2477
Delta R.T. 0.010 min
Lab File: VV028992.D
Acq: 15 Nov 2022 16:32

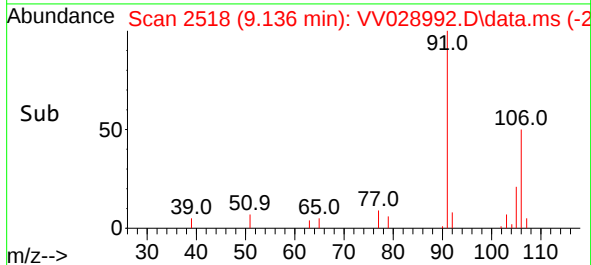
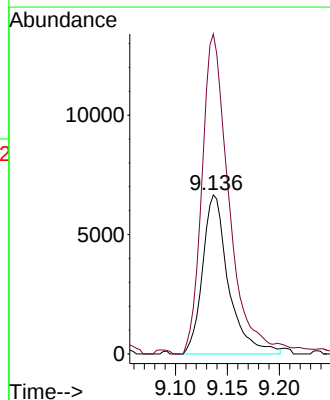
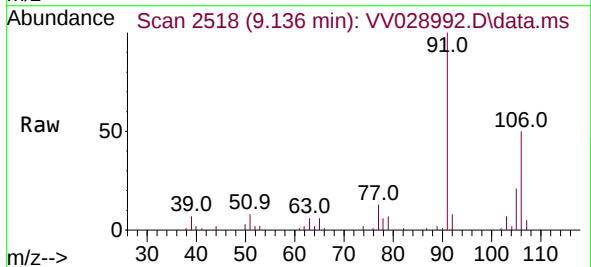
Instrument :
MSVOA_V
ClientSampleId :
COL12

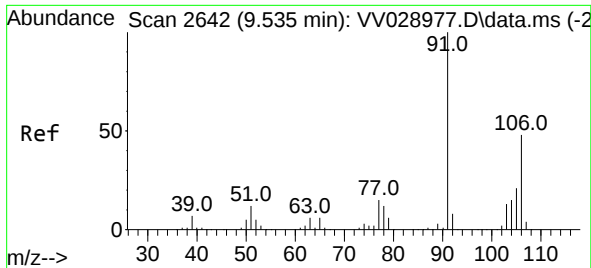
Tgt Ion: 91 Resp: 9003
Ion Ratio Lower Upper
91 100
106 36.4 21.6 40.2



#53
m,p-Xylene
Concen: 0.340 ug/L
RT: 9.136 min Scan# 2518
Delta R.T. 0.006 min
Lab File: VV028992.D
Acq: 15 Nov 2022 16:32

Tgt Ion: 106 Resp: 11571
Ion Ratio Lower Upper
106 100
91 201.2 139.1 258.3

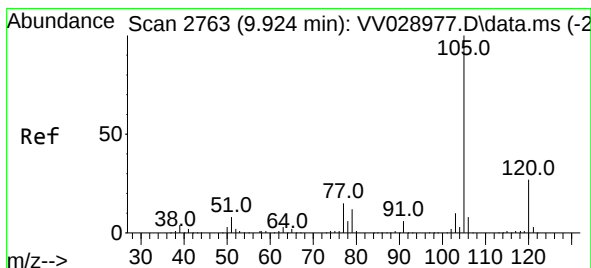
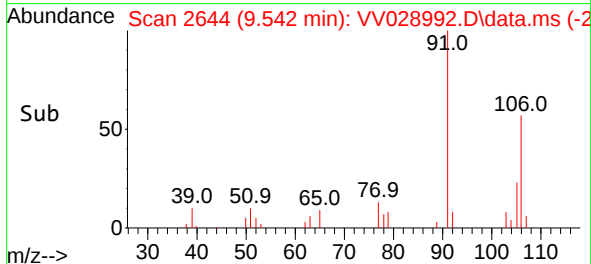
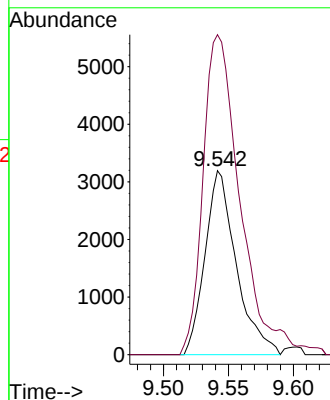
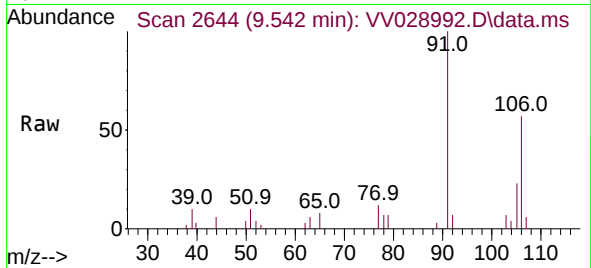




#54
o-Xylene
Concen: 0.165 ug/L
RT: 9.542 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV028992.D
Acq: 15 Nov 2022 16:32

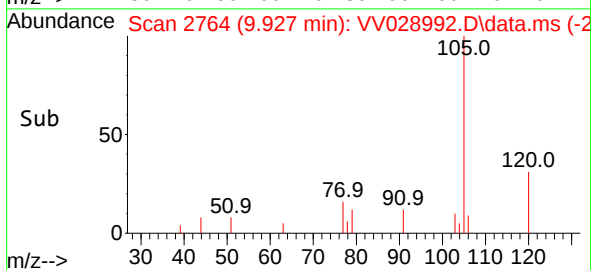
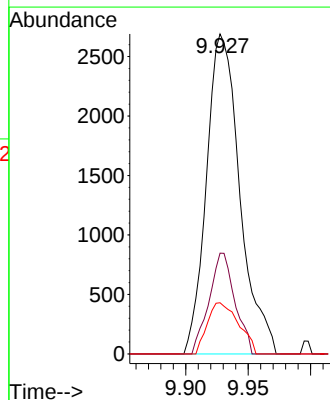
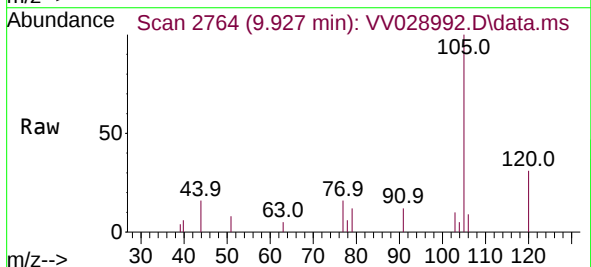
Instrument :
MSVOA_V
ClientSampleId :
COL12

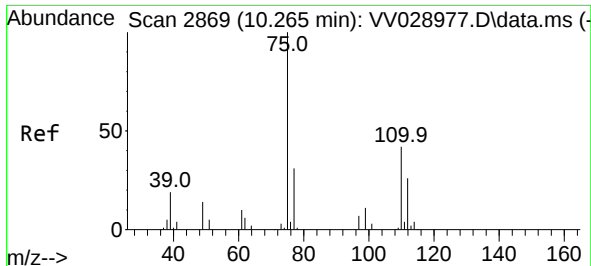
Tgt Ion:106 Resp: 5345
Ion Ratio Lower Upper
106 100
91 174.0 145.7 270.7



#60
Isopropylbenzene
Concen: 0.066 ug/L
RT: 9.927 min Scan# 2764
Delta R.T. 0.003 min
Lab File: VV028992.D
Acq: 15 Nov 2022 16:32

Tgt Ion:105 Resp: 5006
Ion Ratio Lower Upper
105 100
120 24.5 21.3 31.9
77 15.0 11.8 17.8

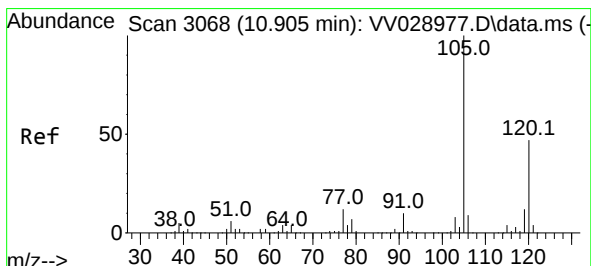
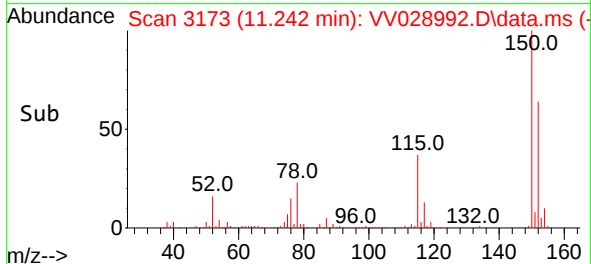
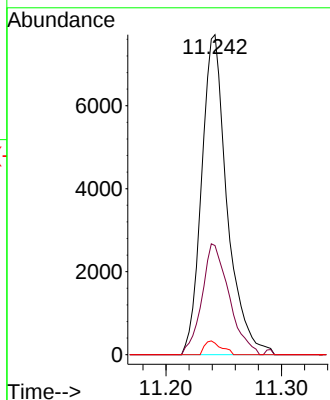
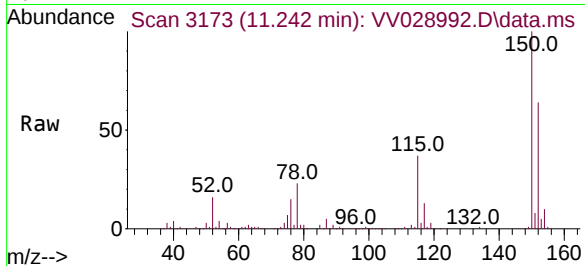




#61
1,2,3-Trichloropropane
Concen: 1.485 ug/L
RT: 11.242 min Scan# 3173
Delta R.T. 0.977 min
Lab File: VV028992.D
Acq: 15 Nov 2022 16:32

Instrument :
MSVOA_V
ClientSampleId :
COL12

Tgt Ion: 75 Resp: 11813
Ion Ratio Lower Upper
75 100
77 37.0 26.2 39.2
110 2.8 32.6 48.8#



#63
1,2,4-Trimethylbenzene
Concen: 0.066 ug/L
RT: 10.914 min Scan# 3071
Delta R.T. 0.010 min
Lab File: VV028992.D
Acq: 15 Nov 2022 16:32

Tgt Ion: 105 Resp: 4209
Ion Ratio Lower Upper
105 100
120 49.0 37.8 56.8

