

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052120\
 Data File : VV016153.D
 Acq On : 21 May 2020 15:05
 Operator : SY/MD
 Sample : L2725-02DL 10X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 22 01:55:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri May 22 01:50:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	142196	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	134898	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	64685	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	29471	3.82	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.40%
7) Chloroethane-d5	1.58	69	34357	4.70	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.00%
11) 1,1-Dichloroethene-d2	2.13	63	54370	3.28	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.60%
20) 2-Butanone-d5	3.93	46	91004	41.36	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	82.72%
24) Chloroform-d	4.38	84	83315	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.80%
26) 1,2-Dichloroethane-d4	5.06	65	42239	4.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.40%
32) Benzene-d6	5.08	84	156400	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.40%
36) 1,2-Dichloropropane-d6	6.10	67	50206	5.13	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.60%
41) Toluene-d8	7.34	98	138066	4.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.00%
45) trans-1,3-Dichloropropene-	7.65	79	12829	3.34	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	66.80%
48) 2-Hexanone-d5	8.12	63	68102	40.31	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	80.62%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	31075	4.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.20%
65) 1,2-Dichlorobenzene-d4	11.65	152	51646	4.92	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	18783	1.781	ug/L #	69
8) Chloroethane	1.48	64	54755	7.285	ug/L #	49
12) 1,1-Dichloroethene	2.14	96	1322	0.169	ug/L #	1
16) Methylene chloride	2.53	84	4513	0.482	ug/L	94
18) trans-1,2-Dichloroethene	2.79	96	3186	0.368	ug/L	90
22) cis-1,2-Dichloroethene	3.94	96	91488	10.106	ug/L	97
27) 1,2-Dichloroethane	5.17	62	8326	0.739	ug/L	96
33) Benzene	5.14	78	5043	0.149	ug/L	100
34) Trichloroethene	5.94	95	36077	3.724	ug/L	94
35) Methylcyclohexane	6.10	83	12380	0.845	ug/L #	17
37) 1,2-Dichloropropane	6.09	63	6274	0.728	ug/L #	87
39) cis-1,3-Dichloropropene	7.01	75	1175	0.096	ug/L #	55
46) trans-1,3-Dichloropropene	7.65	75	598	0.058	ug/L	92
47) 1,1,2-Trichloroethane	7.87	97	860	0.149	ug/L	89
49) Tetrachloroethene	8.00	164	1298	0.192	ug/L	100
51) Dibromochloromethane	8.00	129	1445	0.223	ug/L #	9
53) Chlorobenzene	8.91	112	17021	0.736	ug/L	98

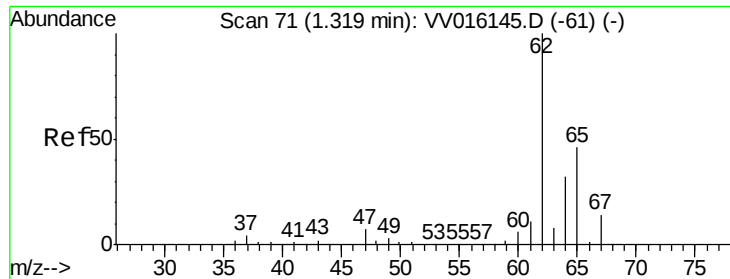
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052120\
Data File : VV016153.D
Acq On : 21 May 2020 15:05
Operator : SY/MD
Sample : L2725-02DL 10X
Misc : 25.0mL/MSVOA V/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :

Quant Time: May 22 01:55:29 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR050720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 22 01:50:48 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,4-Dichlorobenzene	11.30	146	3277	0.187	ug/L	89
66) 1,2-Dichlorobenzene	11.67	146	12131	0.769	ug/L	98
70) Naphthalene	13.53	128	31836	1.828	ug/L	99

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



#5

Vinyl chloride

Concen: 1.781 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV016153.D

Acq: 21 May 2020 15:05

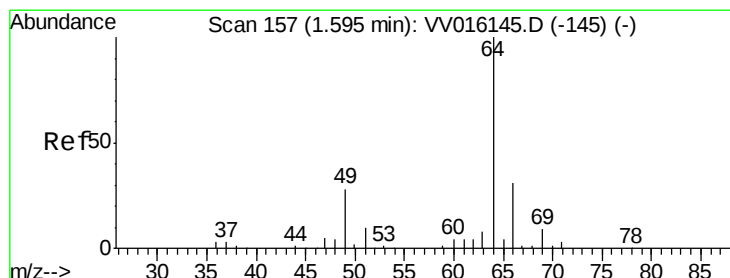
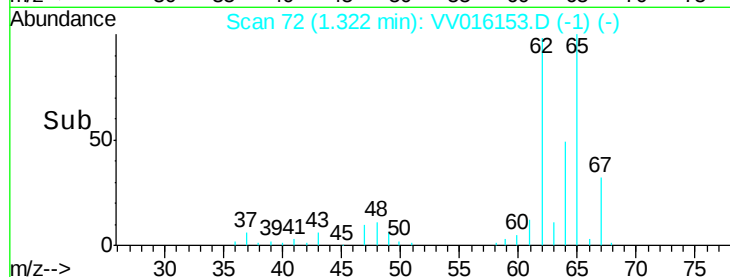
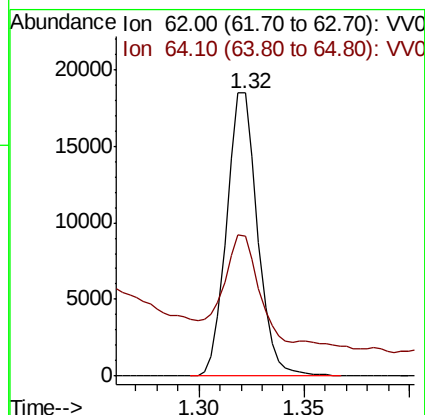
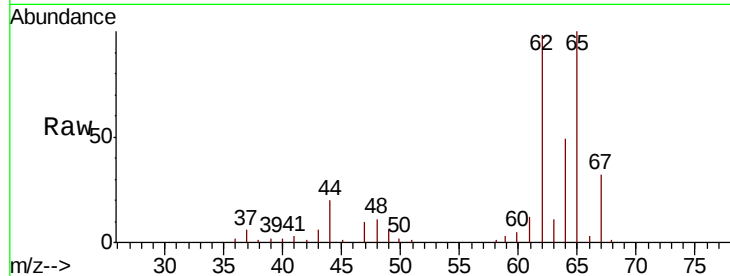
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 18783

Ion Ratio Lower Upper

62 100

64 49.5 22.4 41.6#



#8

Chloroethane

Concen: 7.285 ug/L

RT: 1.48 min Scan# 120

Delta R.T. -0.12 min

Lab File: VV016153.D

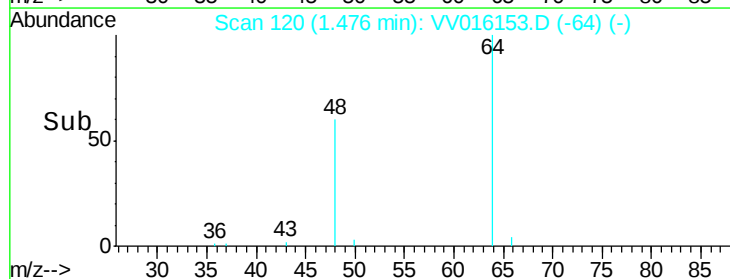
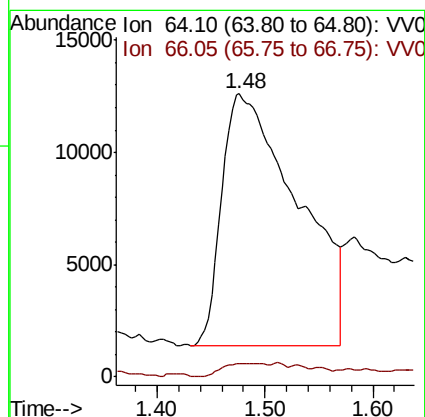
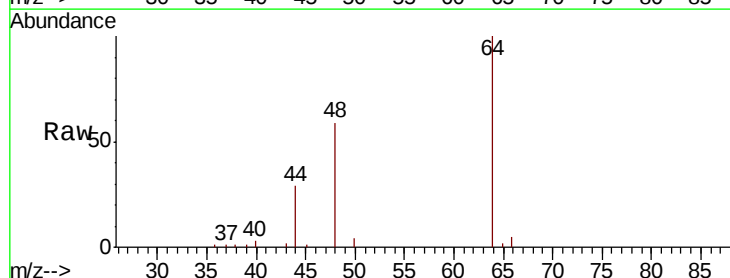
Acq: 21 May 2020 15:05

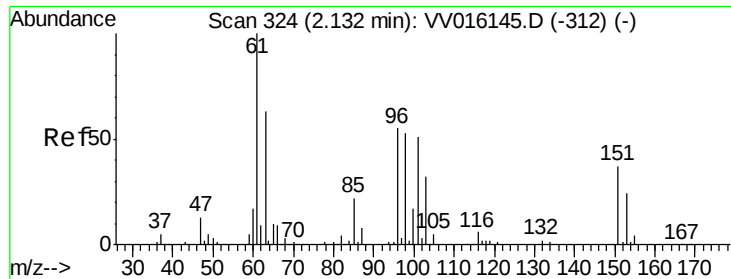
Tgt Ion: 64 Resp: 54755

Ion Ratio Lower Upper

64 100

66 4.8 23.6 43.8#

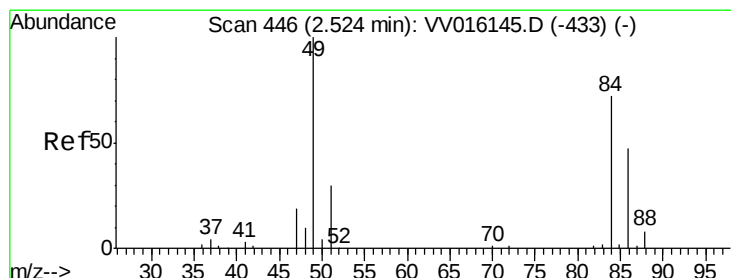
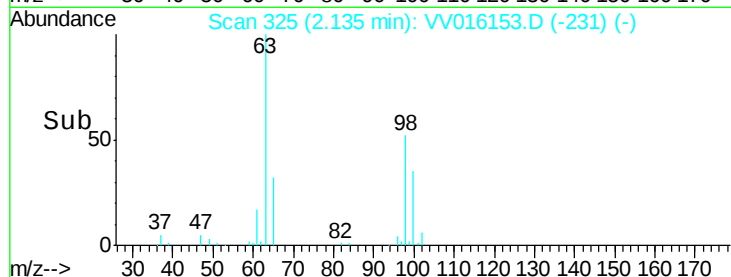
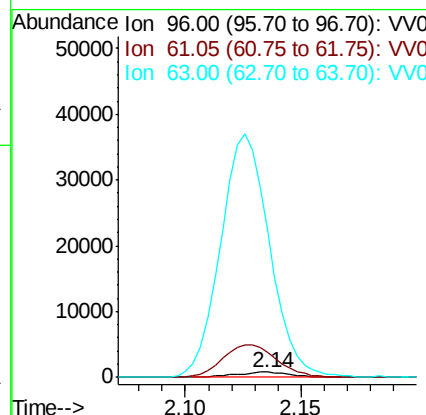
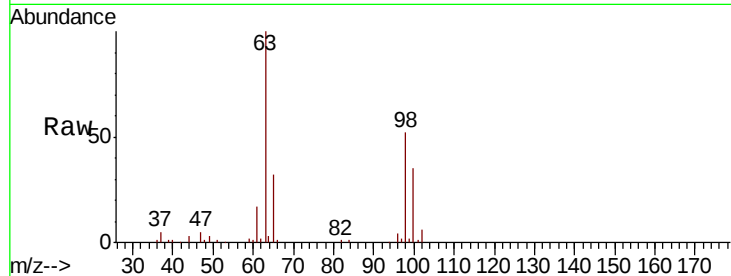




#12
 1,1-Dichloroethene
 Concen: 0.169 ug/L
 RT: 2.14 min Scan# 325
 Delta R.T. 0.00 min
 Lab File: VV016153.D
 Acq: 21 May 2020 15:05

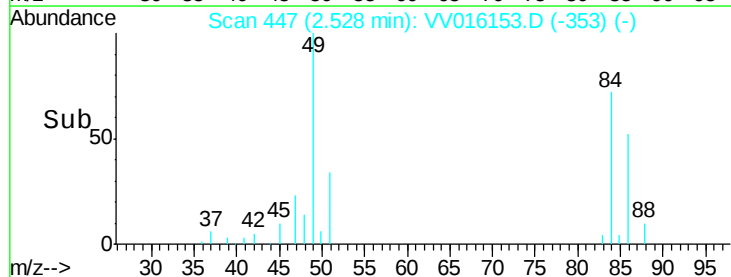
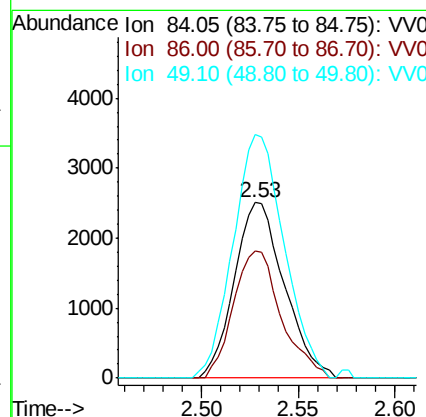
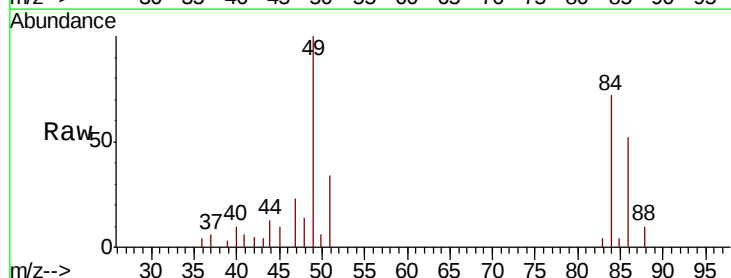
Instrument :
 MSVOA_V
 ClientSampled :

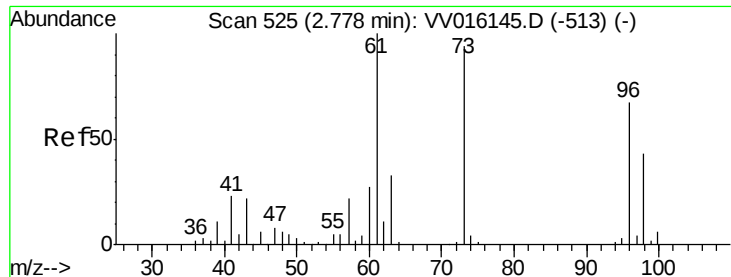
Tot Ion: 96 Resp: 1322
 Ion Ratio Lower Upper
 96 100
 61 493.8 139.9 259.7#
 63 2851.9 106.4 197.6#



#16
 Methylene chloride
 Concen: 0.482 ug/L
 RT: 2.53 min Scan# 447
 Delta R.T. 0.00 min
 Lab File: VV016153.D
 Acq: 21 May 2020 15:05

Tgt Ion: 84 Resp: 4513
 Ion Ratio Lower Upper
 84 100
 86 72.7 45.6 84.8
 49 138.6 93.6 173.8

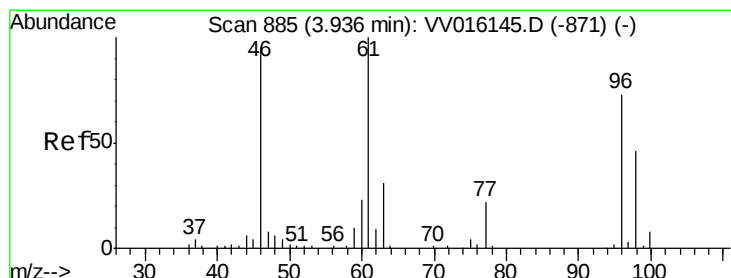
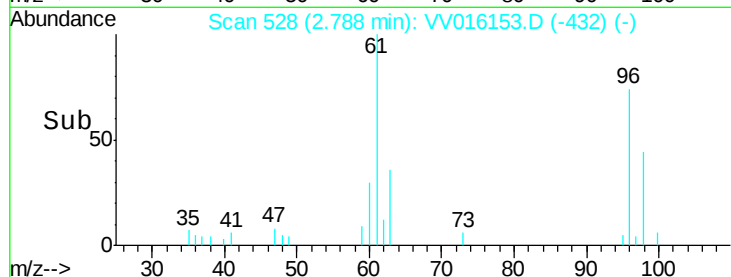
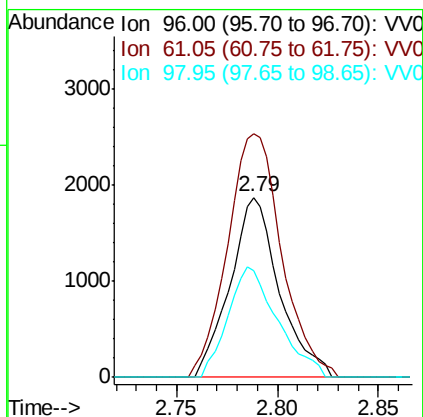
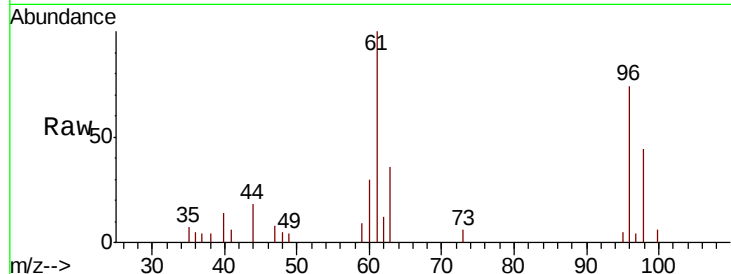




#18
 trans-1,2-Dichloroethene
 Concen: 0.368 ug/L
 RT: 2.79 min Scan# 528
 Delta R.T. 0.01 min
 Lab File: VV016153.D
 Acq: 21 May 2020 15:05

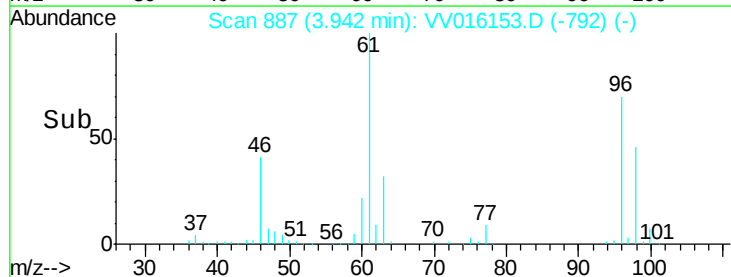
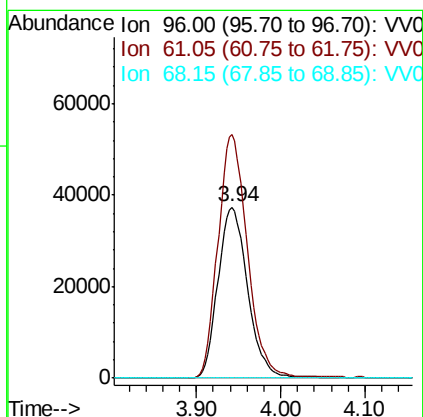
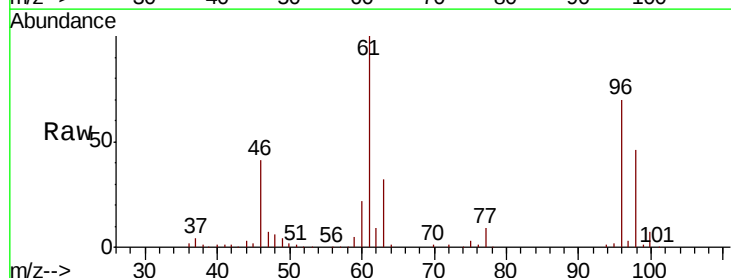
Instrument :
 MSVOA_V
 ClientSampleId :

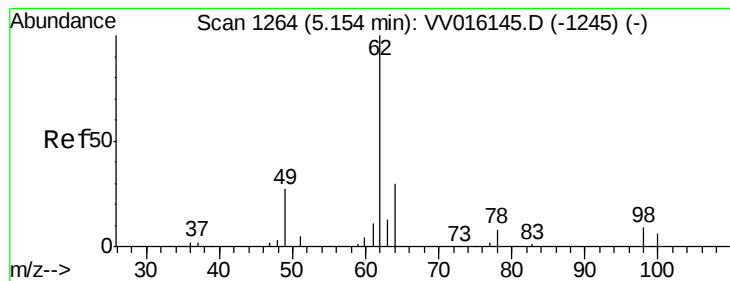
Tot Ion: 96 Resp: 3186
 Ion Ratio Lower Upper
 96 100
 61 135.5 105.3 195.5
 98 59.3 44.0 81.6



#22
 cis-1,2-Dichloroethene
 Concen: 10.106 ug/L
 RT: 3.94 min Scan# 887
 Delta R.T. 0.01 min
 Lab File: VV016153.D
 Acq: 21 May 2020 15:05

Tgt Ion: 96 Resp: 91488
 Ion Ratio Lower Upper
 96 100
 61 142.4 97.2 180.6
 68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 0.739 ug/L

RT: 5.17 min Scan# 1268

Delta R.T. 0.01 min

Lab File: VV016153.D

Acq: 21 May 2020 15:05

Instrument :

MSVOA_V

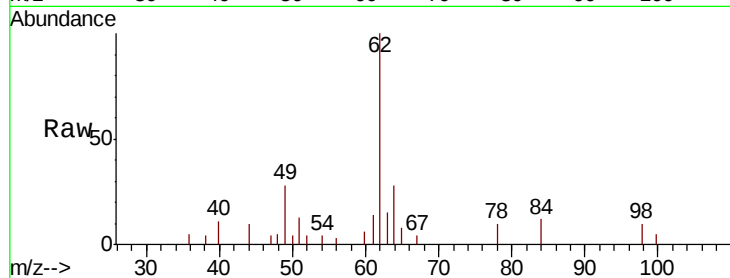
ClientSampleId :

Tot Ion: 62 Resp: 8326

Ion Ratio Lower Upper

62 100

98 9.7 6.7 10.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.05 (97.75 to 98.75): VV0

5.17

3000

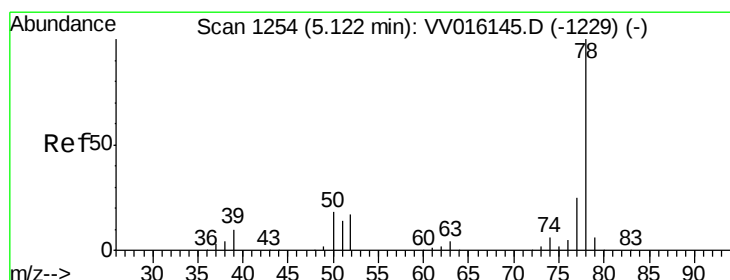
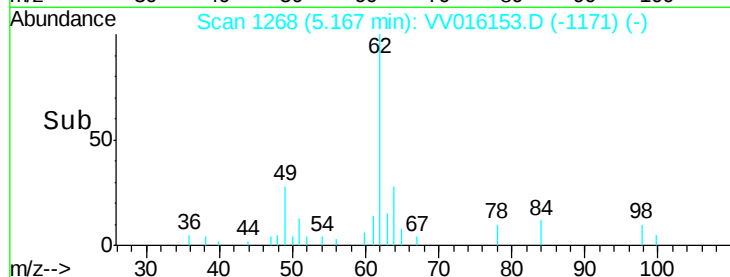
2000

1000

0

Time-->

5.10 5.15 5.20 5.25



#33

Benzene

Concen: 0.149 ug/L

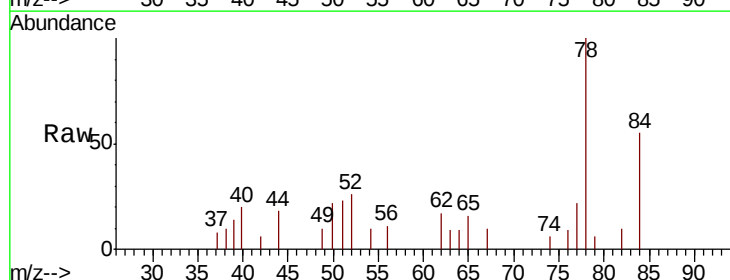
RT: 5.14 min Scan# 1259

Delta R.T. 0.02 min

Lab File: VV016153.D

Acq: 21 May 2020 15:05

Tgt Ion: 78 Resp: 5043



Abundance Ion 78.10 (77.80 to 78.80): VV0

5.14

2000

1500

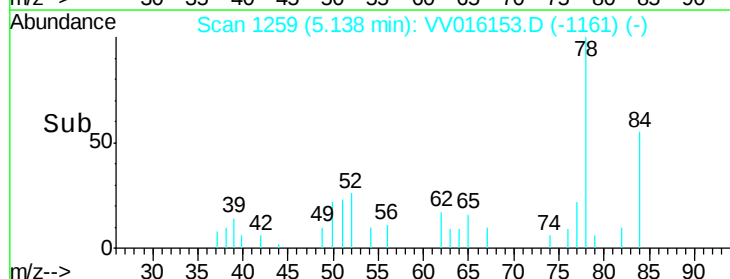
1000

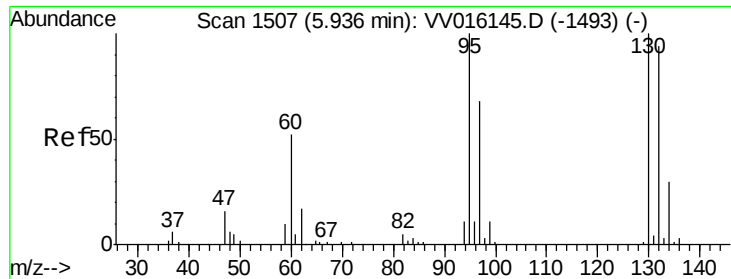
500

0

Time-->

5.10 5.15 5.20

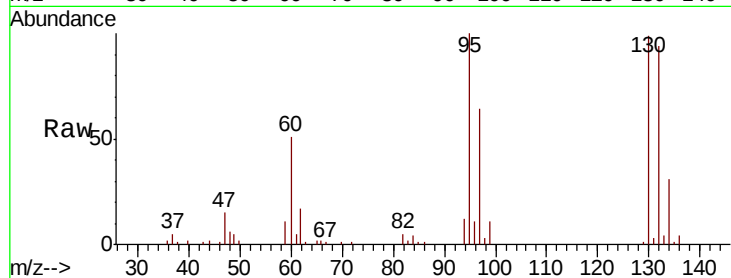




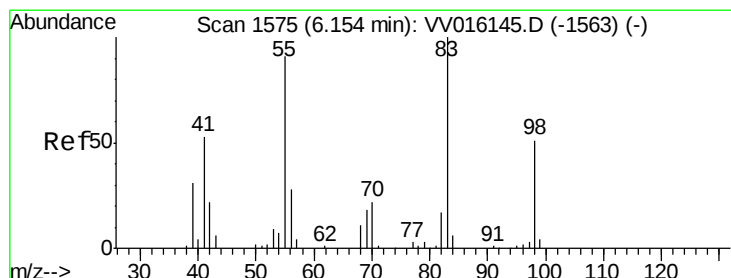
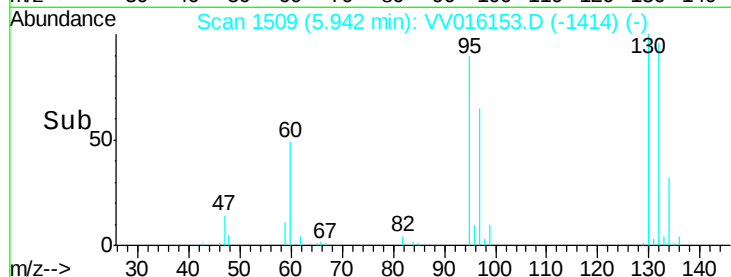
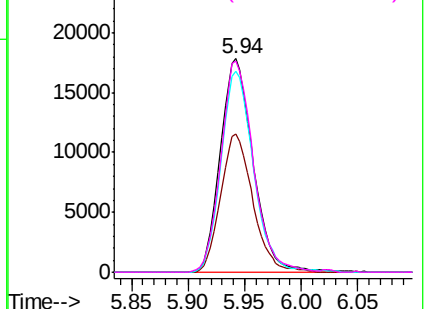
#34
 Trichloroethene
 Concen: 3.724 ug/L
 RT: 5.94 min Scan# 1509
 Delta R.T. 0.01 min
 Lab File: VV016153.D
 Acq: 21 May 2020 15:05

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 36077
 Ion Ratio Lower Upper
 95 100
 97 64.4 43.3 80.5
 132 94.3 60.3 112.1
 130 98.7 66.0 122.6

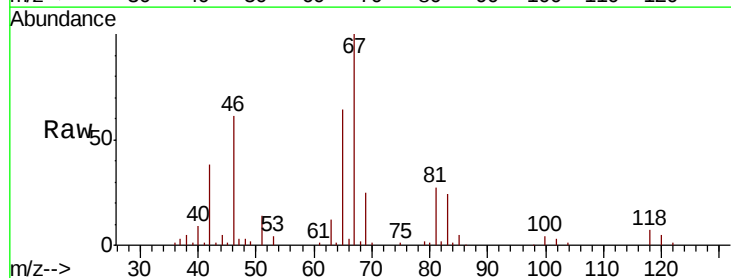


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

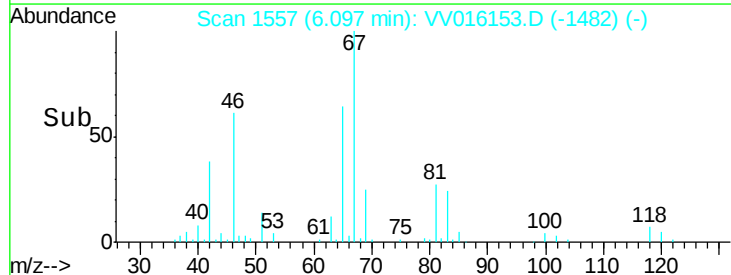
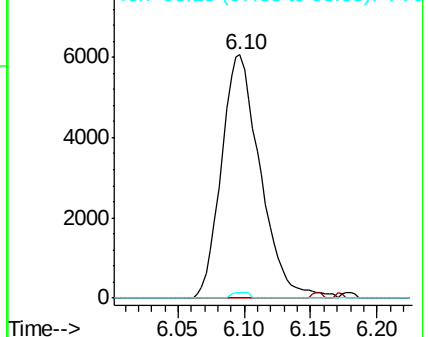


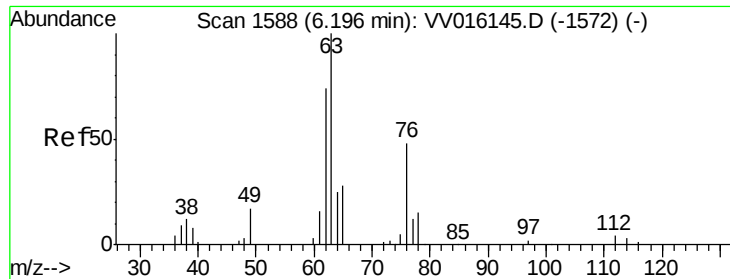
#35
 Methylcyclohexane
 Concen: 0.845 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.06 min
 Lab File: VV016153.D
 Acq: 21 May 2020 15:05

Tgt Ion: 83 Resp: 12380
 Ion Ratio Lower Upper
 83 100
 55 0.6 66.2 99.2#
 98 1.0 37.9 56.9#



Abundance Ion 83.15 (82.85 to 83.85): VV0
 Ion 55.10 (54.80 to 55.80): VV0
 Ion 98.15 (97.85 to 98.85): VV0

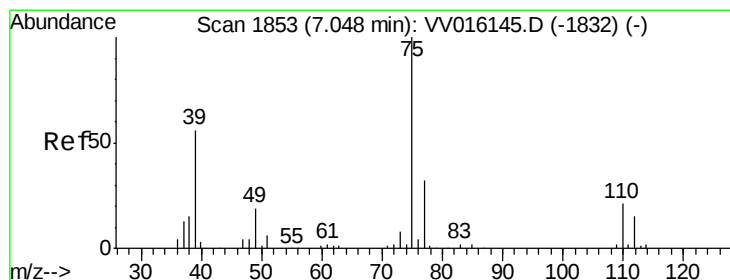
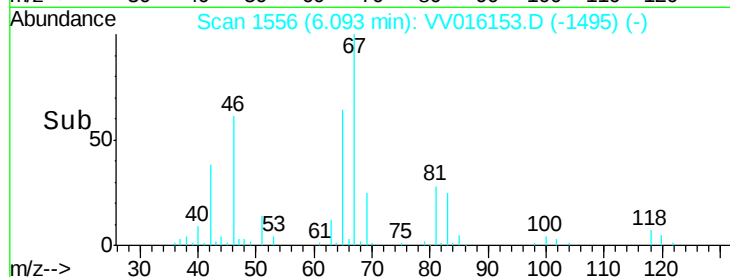
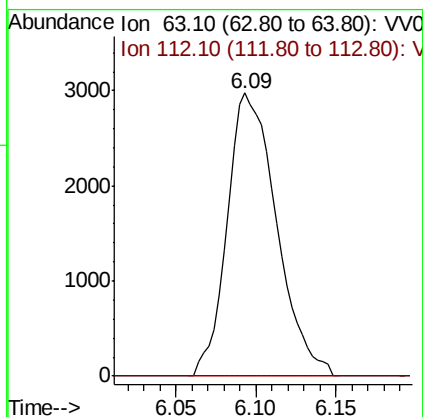
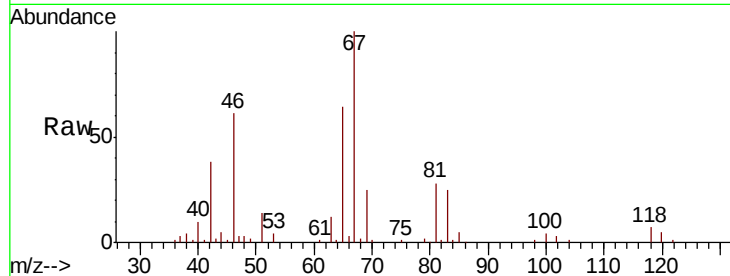




#37
 1,2-Dichloropropane
 Concen: 0.728 ug/L
 RT: 6.09 min Scan# 1556
 Delta R.T. -0.10 min
 Lab File: VV016153.D
 Acq: 21 May 2020 15:05

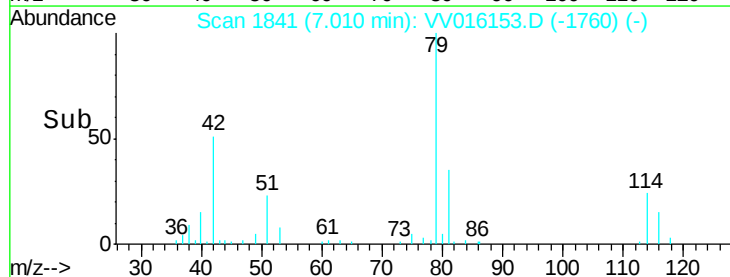
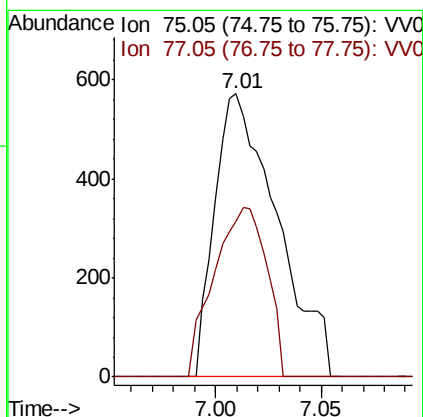
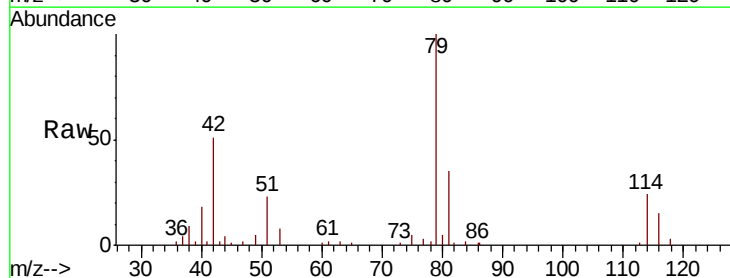
Instrument :
 MSVOA_V
 ClientSampleId :

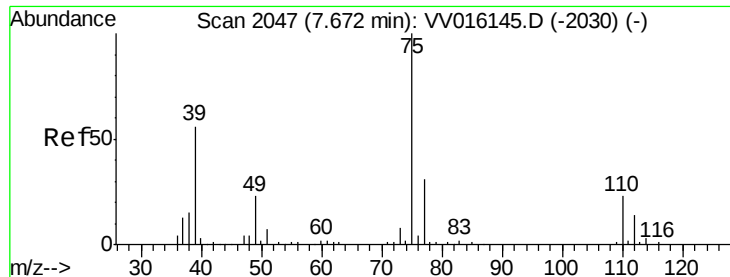
Tot Ion: 63 Resp: 6274
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.4 5.0#



#39
 cis-1,3-Dichloropropene
 Concen: 0.096 ug/L
 RT: 7.01 min Scan# 1841
 Delta R.T. -0.04 min
 Lab File: VV016153.D
 Acq: 21 May 2020 15:05

Tgt Ion: 75 Resp: 1175
 Ion Ratio Lower Upper
 75 100
 77 55.1 21.3 39.5#

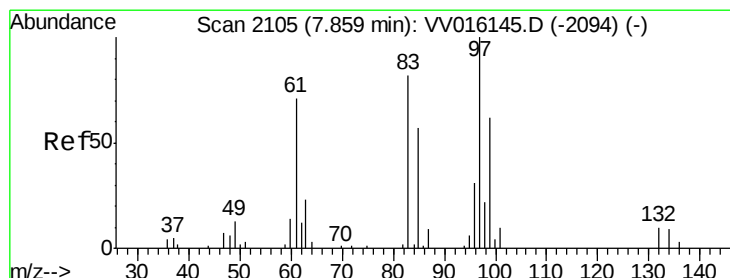
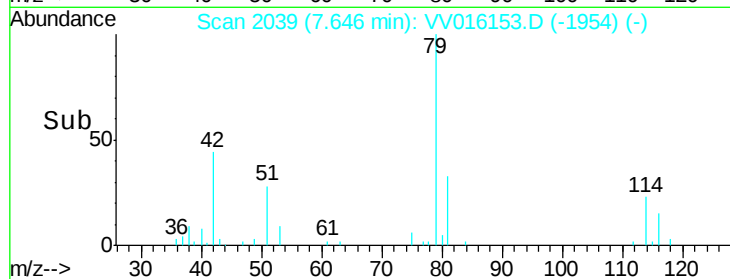
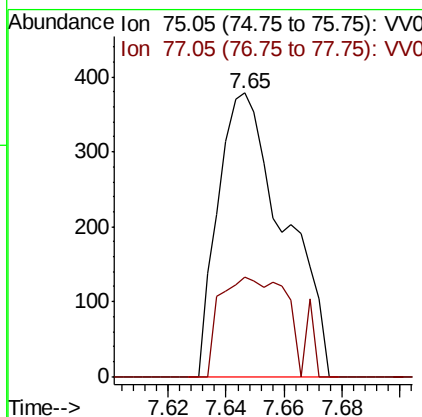
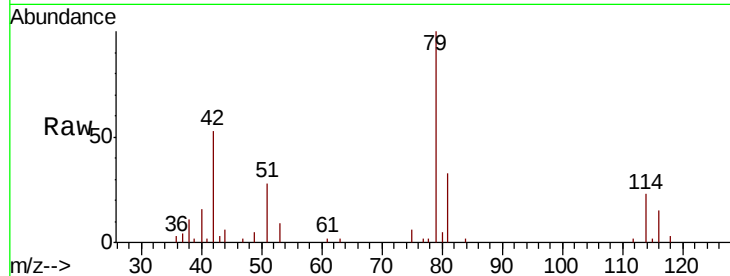




#46
trans-1,3-Dichloropropene
Concen: 0.058 ug/L
RT: 7.65 min Scan# 2039
Delta R.T. -0.03 min
Lab File: VV016153.D
Acq: 21 May 2020 15:05

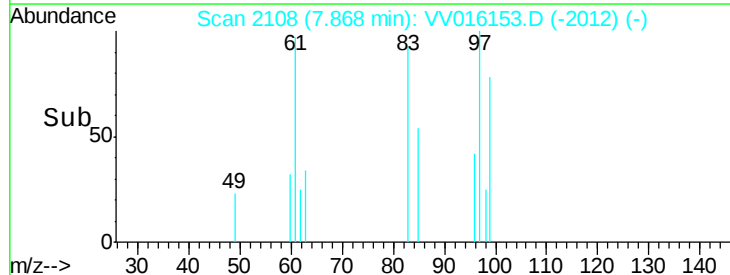
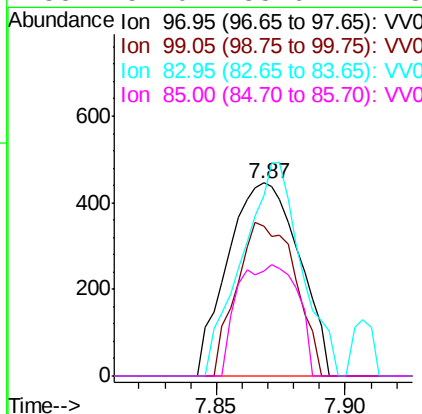
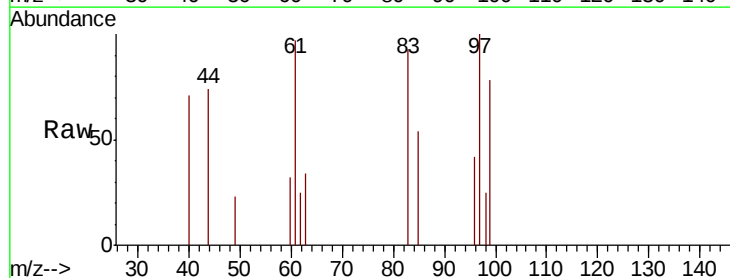
Instrument :
MSVOA_V
ClientSampleId :

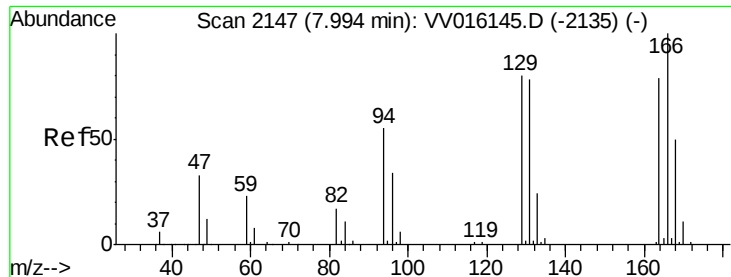
Tot Ion: 75 Resp: 598
Ion Ratio Lower Upper
75 100
77 34.9 21.3 39.6



#47
1,1,2-Trichloroethane
Concen: 0.149 ug/L
RT: 7.87 min Scan# 2108
Delta R.T. 0.01 min
Lab File: VV016153.D
Acq: 21 May 2020 15:05

Tgt Ion: 97 Resp: 860
Ion Ratio Lower Upper
97 100
99 77.6 42.1 78.1
83 93.3 59.2 110.0
85 54.0 38.6 71.8





#49

Tetrachloroethene

Concen: 0.192 ug/L

RT: 8.00 min Scan# 2150

Delta R.T. 0.01 min

Lab File: VV016153.D

Acq: 21 May 2020 15:05

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 1298

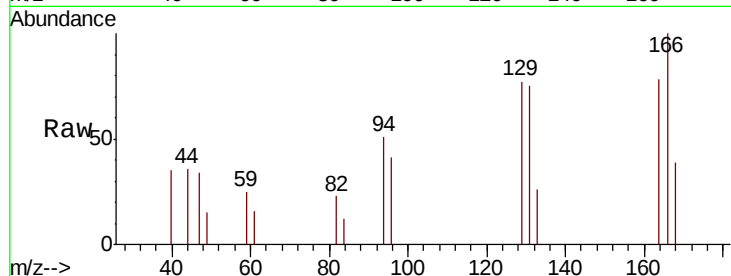
Ion Ratio Lower Upper

164 100

129 98.2 69.7 129.4

131 95.6 66.8 124.2

166 127.4 89.1 165.5

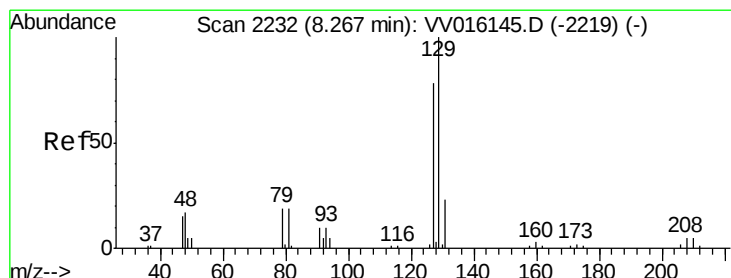
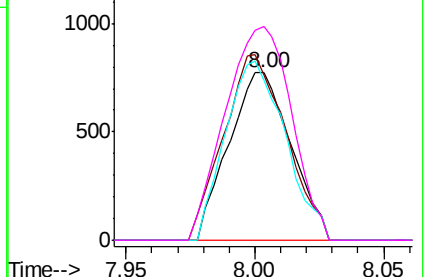
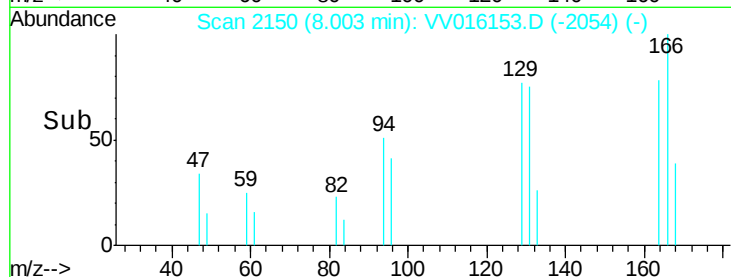


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#51

Dibromochloromethane

Concen: 0.223 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. -0.27 min

Lab File: VV016153.D

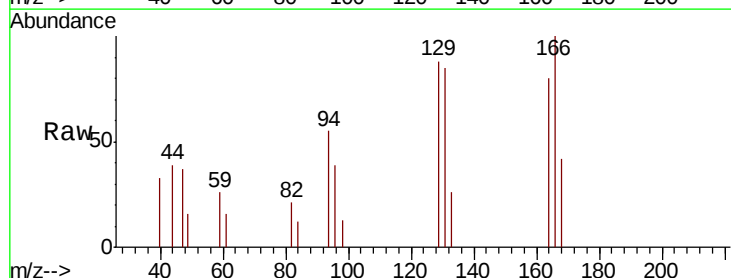
Acq: 21 May 2020 15:05

Tgt Ion:129 Resp: 1445

Ion Ratio Lower Upper

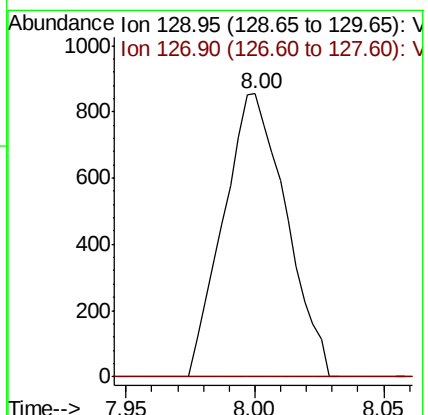
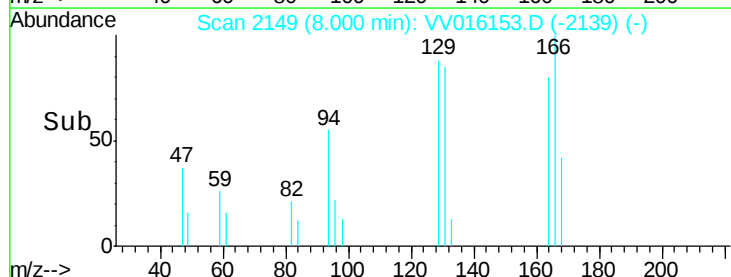
129 100

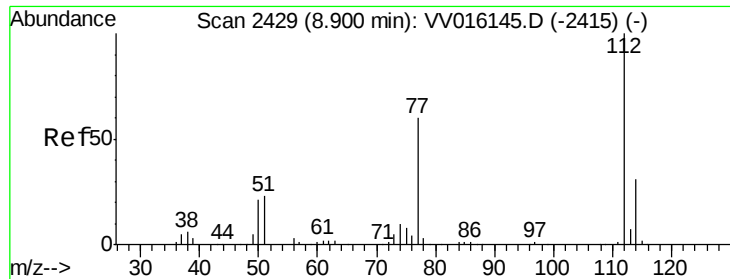
127 0.0 56.0 104.0#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

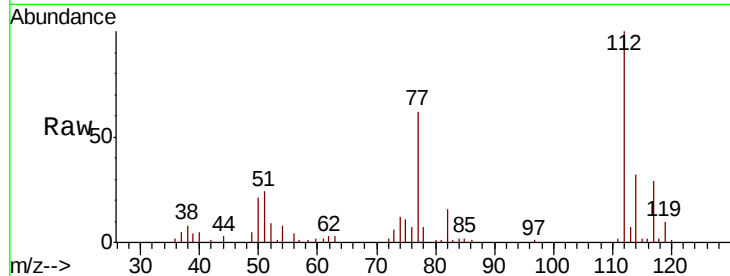




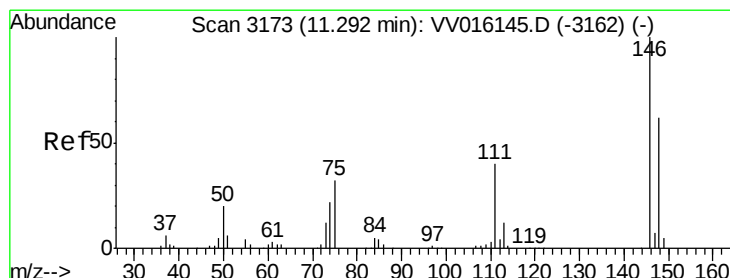
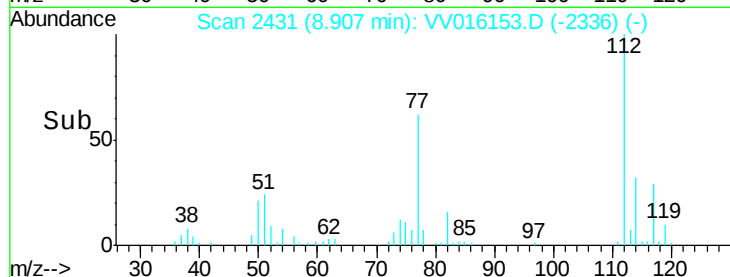
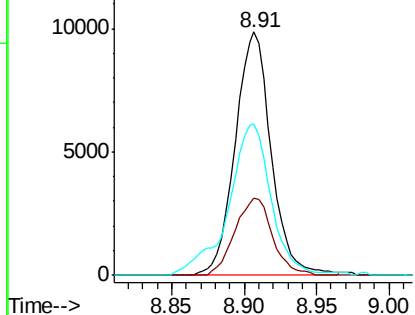
#53
Chlorobenzene
Concen: 0.736 ug/L
RT: 8.91 min Scan# 2431
Delta R.T. 0.01 min
Lab File: VV016153.D
Acq: 21 May 2020 15:05

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:112 Resp: 17021
Ion Ratio Lower Upper
112 100
114 31.8 21.6 40.0
77 62.3 48.6 73.0

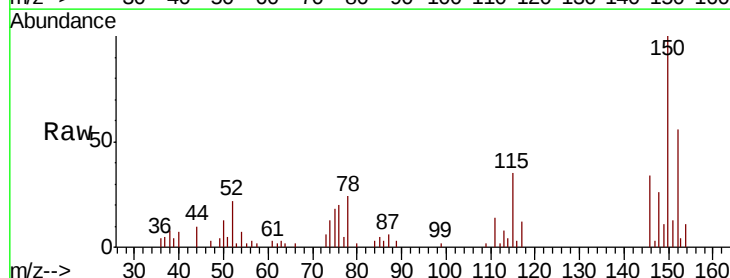


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

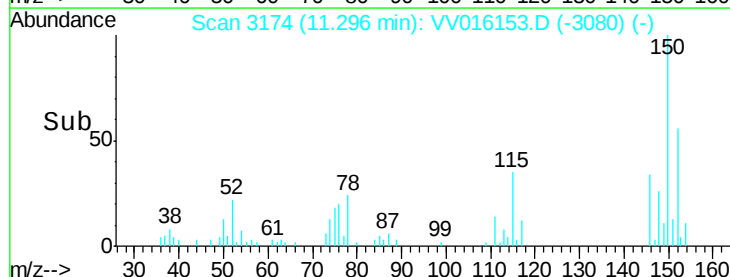
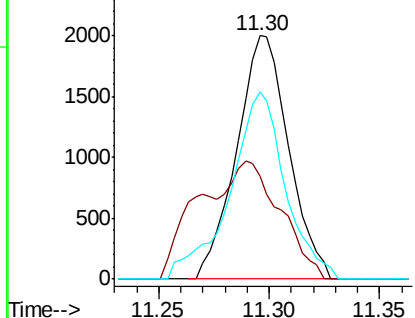


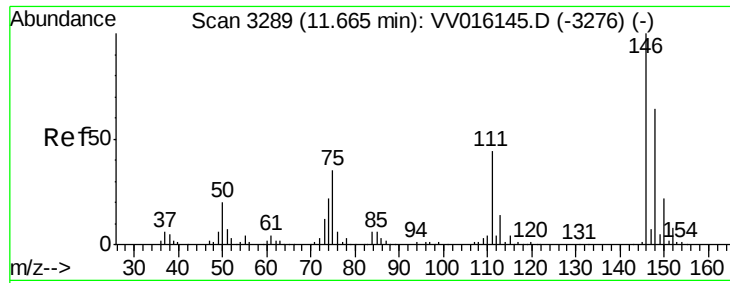
#64
1,4-Dichlorobenzene
Concen: 0.187 ug/L
RT: 11.30 min Scan# 3174
Delta R.T. 0.00 min
Lab File: VV016153.D
Acq: 21 May 2020 15:05

Tgt Ion:146 Resp: 3277
Ion Ratio Lower Upper
146 100
111 42.1 28.9 53.7
148 76.7 44.6 82.8



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#66

1,2-Dichlorobenzene

Concen: 0.769 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV016153.D

Acq: 21 May 2020 15:05

Instrument :

MSVOA_V

ClientSampleId :

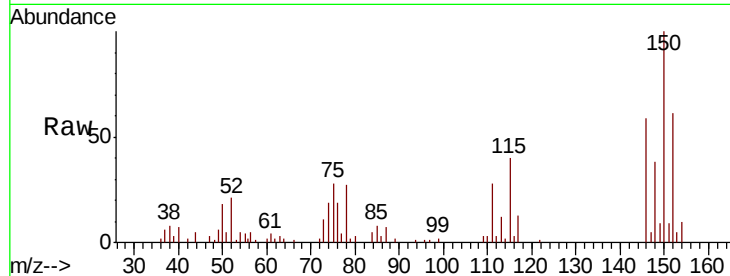
Tot Ion:146 Resp: 12131

Ion Ratio Lower Upper

146 100

111 46.6 37.0 55.4

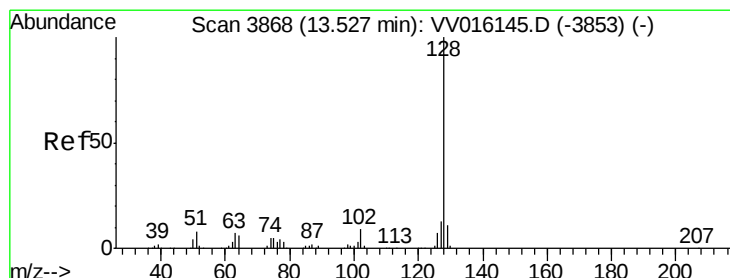
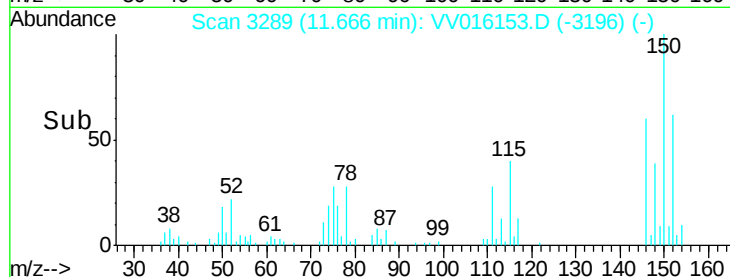
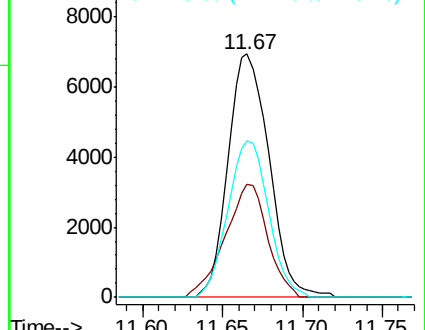
148 64.1 49.8 74.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#70

Naphthalene

Concen: 1.828 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

Lab File: VV016153.D

Acq: 21 May 2020 15:05

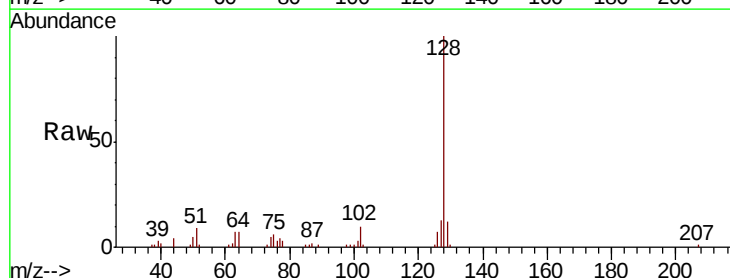
Tgt Ion:128 Resp: 31836

Ion Ratio Lower Upper

128 100

129 11.1 8.5 12.7

127 12.8 10.2 15.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

