

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV072020\
 Data File : VV017552.D
 Acq On : 20 Jul 2020 18:09
 Operator : SY/MD
 Sample : L3336-05
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 PMW-3

Quant Time: Jul 21 01:47:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM072020WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Jul 20 18:07:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	281491	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	262170	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	146977	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	78490	49.98	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	99.96%
7) Chloroethane-d5	1.58	69	57569	44.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.10%
11) 1,1-Dichloroethene-d2	2.12	63	133714	35.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.02%
21) 2-Butanone-d5	3.90	46	104364	91.48	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	91.48%
24) Chloroform-d	4.38	84	162947	45.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.60%
26) 1,2-Dichloroethane-d4	5.06	65	121740	49.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.18%
32) Benzene-d6	5.07	84	286344	49.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.04%
36) 1,2-Dichloropropane-d6	6.09	67	84523	49.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.10%
41) Toluene-d8	7.34	98	280219	51.14	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.28%
43) trans-1,3-Dichloropropene-	7.64	79	51820	49.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.76%
47) 2-Hexanone-d5	8.11	63	79927	99.79	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.79%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	120934	49.12	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.24%
64) 1,2-Dichlorobenzene-d4	11.65	152	137350	51.71	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.42%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	5791	2.568	ug/L # 72
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1433	0.683	ug/L # 27
12) 1,1-Dichloroethene	2.13	96	2043	1.088	ug/L # 1
13) Acetone	2.19	43	7521	5.404	ug/L 86
16) Methylene chloride	2.53	84	1608	0.763	ug/L 94
17) trans-1,2-Dichloroethene	2.78	96	3155	1.736	ug/L 88
19) 1,1-Dichloroethane	3.21	63	64911	19.125	ug/L 96
20) cis-1,2-Dichloroethene	3.94	96	30457	15.279	ug/L 93
27) 1,2-Dichloroethane	5.16	62	14255	4.362	ug/L # 95
33) Benzene	5.13	78	16346	2.414	ug/L 100
34) Trichloroethene	5.94	95	2928	1.569	ug/L 95
39) cis-1,3-Dichloropropene	7.01	75	3483	1.198	ug/L 87
51) Chlorobenzene	8.90	112	19184	3.642	ug/L 94
59) 1,2,3-Trichloropropane	11.27	75	16604	6.936	ug/L 93
62) 1,3-Dichlorobenzene	11.21	146	2666	0.580	ug/L 96
63) 1,4-Dichlorobenzene	11.29	146	7818	1.633	ug/L 94
67) 1,3,5-Trichlorobenzene	13.29	180	1973	0.537	ug/L # 79

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM072020WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Jul 20 18:07:44 2020
Response via : Initial Calibration

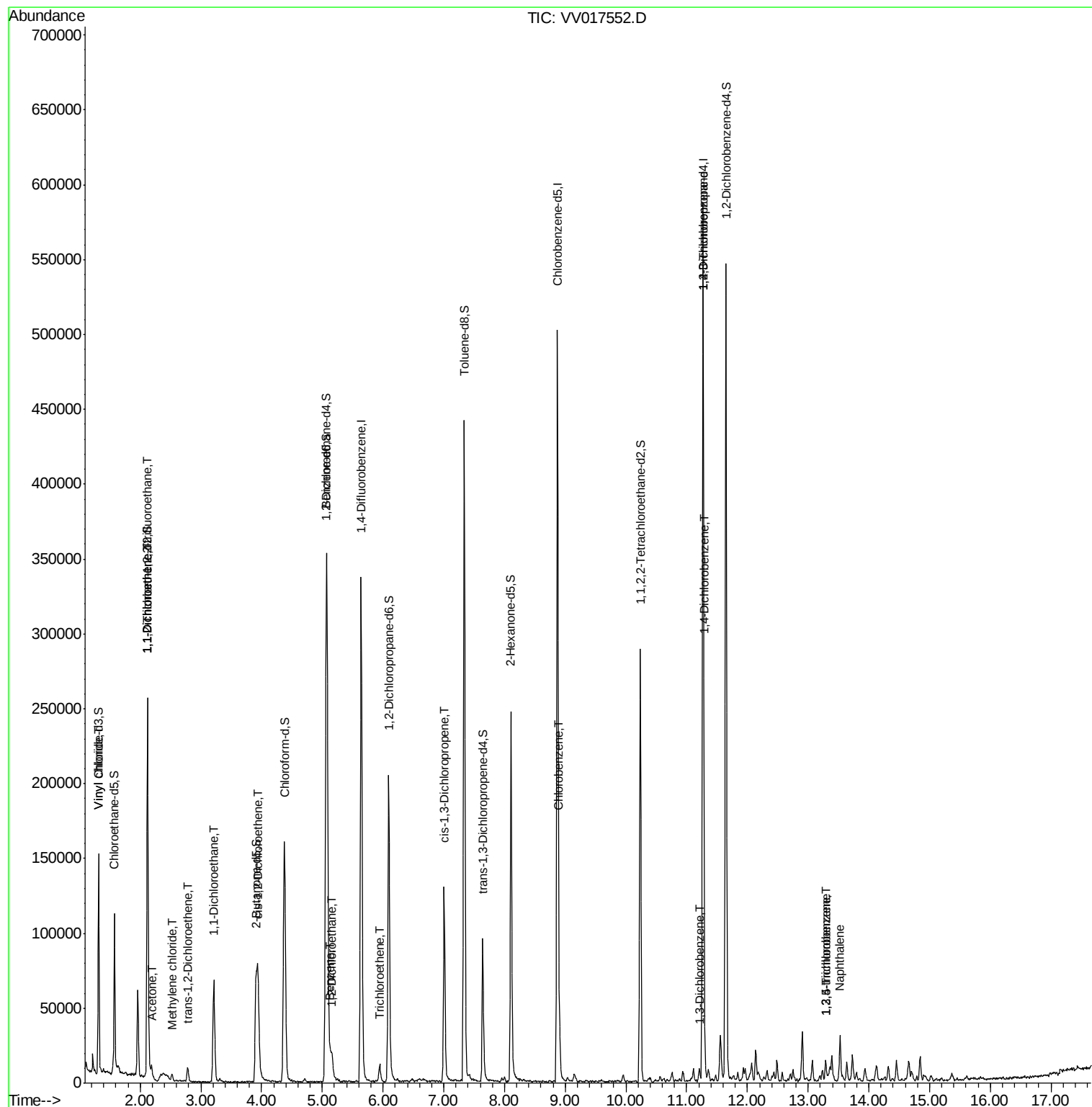
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2,4-trichlorobenzene	13.29	180	1973	0.597	ug/L #	76
69) Naphthalene	13.53	128	21612	2.324	ug/L	97

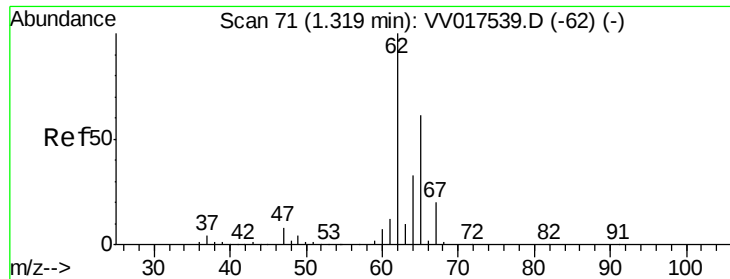
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis
QLast Update : Mon Jul 20 18:07:44 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.568 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV017552.D

Acq: 20 Jul 2020 18:09

Instrument :

MSVOA_V

ClientSampleId :

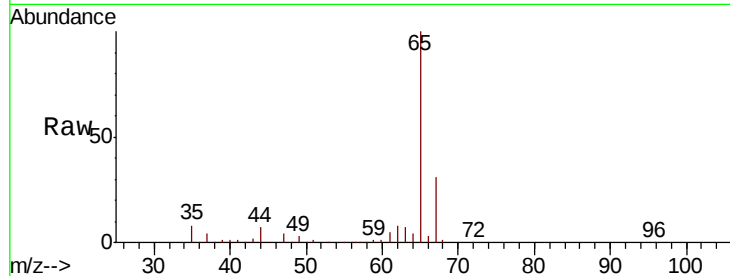
PMW-3

Tot Ion: 62 Resp: 5791

Ion Ratio Lower Upper

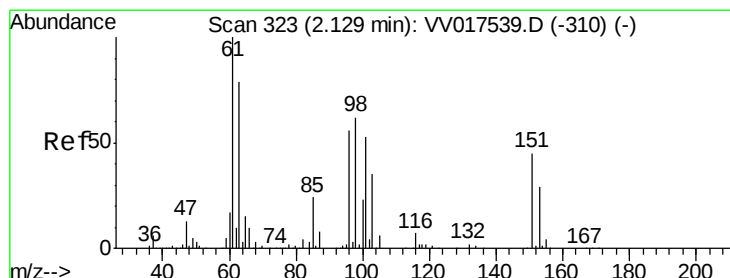
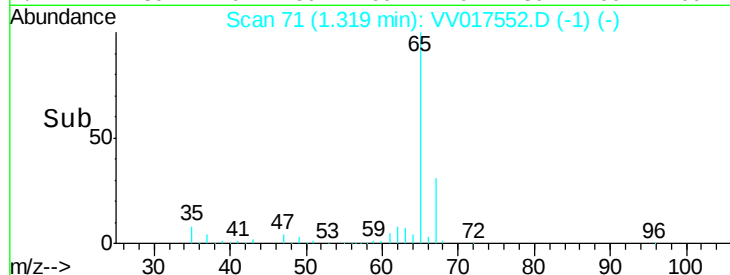
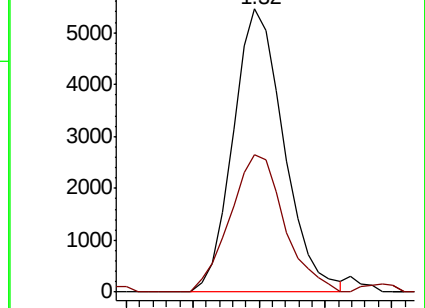
62 100

64 48.7 23.0 42.8#



Abundance Ion 62.00 (61.70 to 62.70): VV017539.D (-62) (-)

Ion 64.00 (63.70 to 64.70): VV017539.D (-62) (-)



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.683 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV017552.D

Acq: 20 Jul 2020 18:09

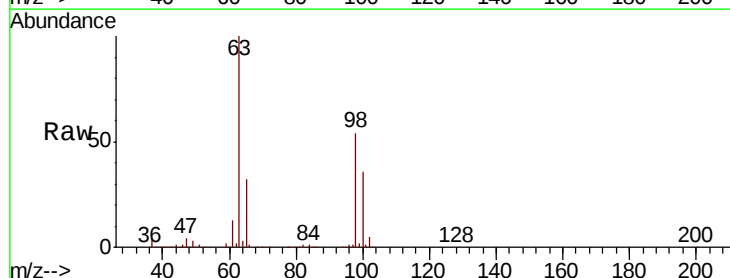
Tgt Ion: 101 Resp: 1433

Ion Ratio Lower Upper

101 100

85 10.1 36.2 54.4#

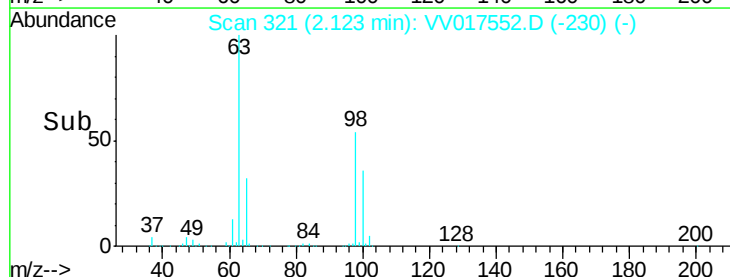
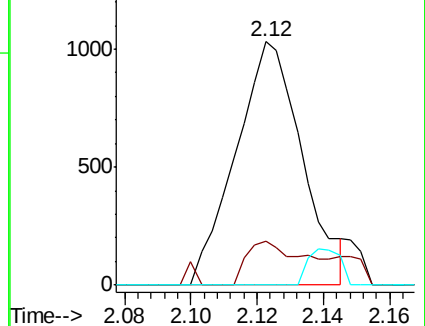
151 7.3 65.9 98.9#

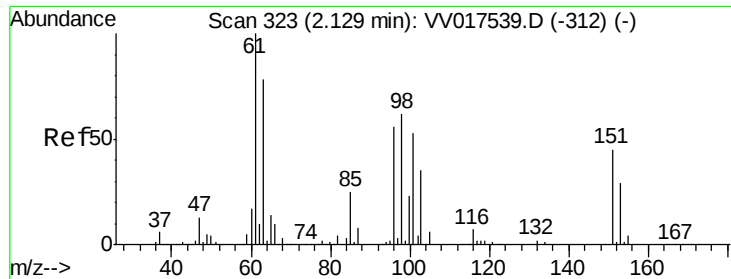


Abundance Ion 101.00 (100.70 to 101.70): VV017539.D (-310) (-)

Ion 85.00 (84.70 to 85.70): VV017539.D (-310) (-)

Ion 151.00 (150.70 to 151.70): VV017539.D (-310) (-)





#12

1,1-Dichloroethene

Concen: 1.088 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV017552.D

Acq: 20 Jul 2020 18:09

Instrument :

MSVOA_V

ClientSampleId :

PMW-3

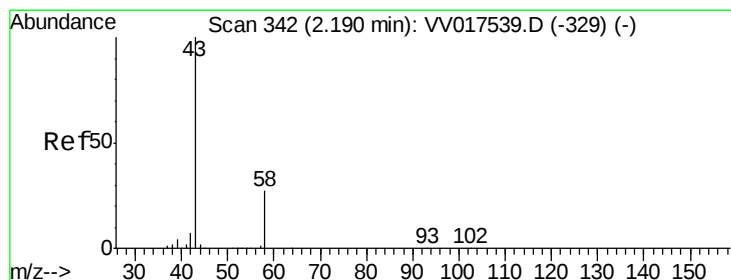
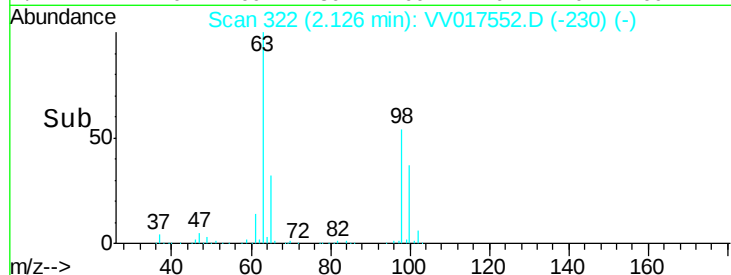
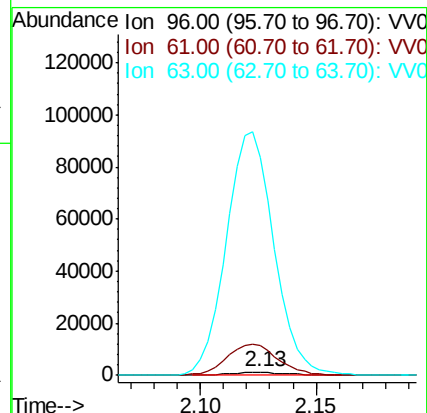
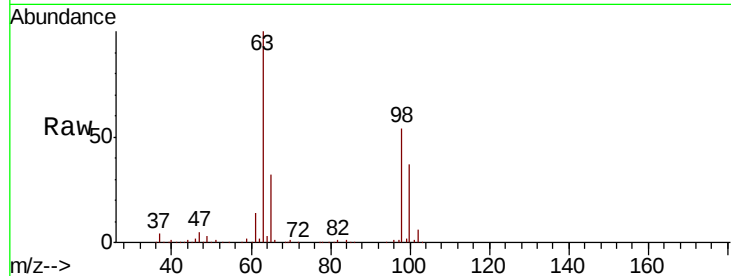
Tot Ion: 96 Resp: 2043

Ion Ratio Lower Upper

96 100

61 971.2 126.0 234.0#

63 7154.3 99.8 185.4#



#13

Acetone

Concen: 5.404 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

Lab File: VV017552.D

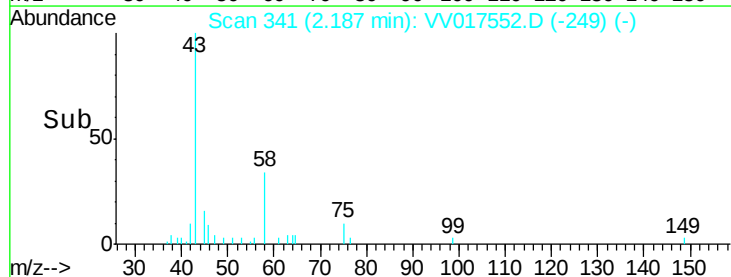
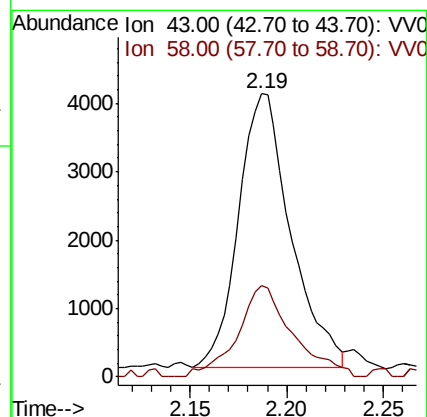
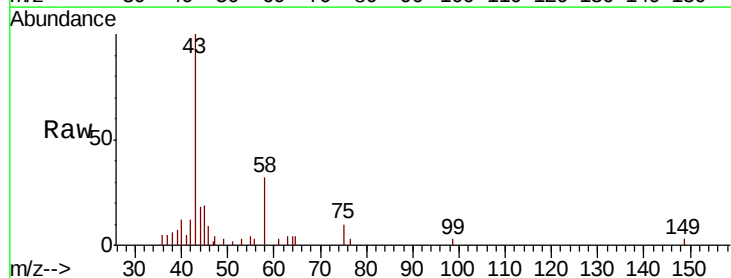
Acq: 20 Jul 2020 18:09

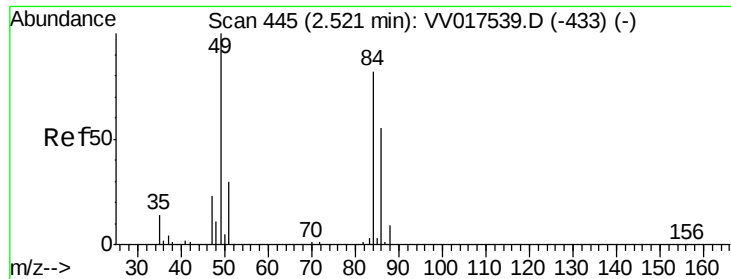
Tgt Ion: 43 Resp: 7521

Ion Ratio Lower Upper

43 100

58 35.3 0.0 56.0

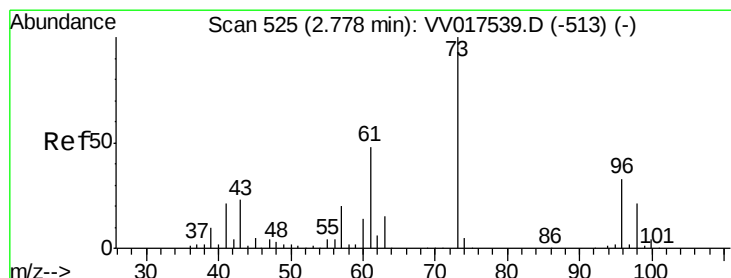
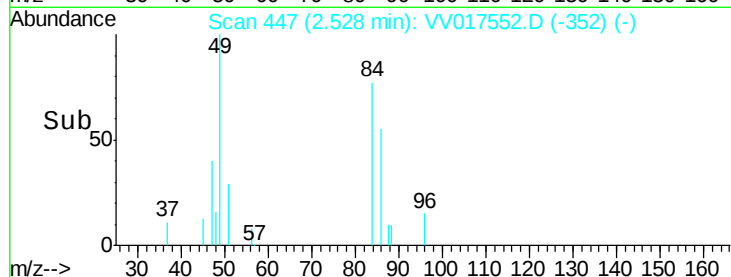
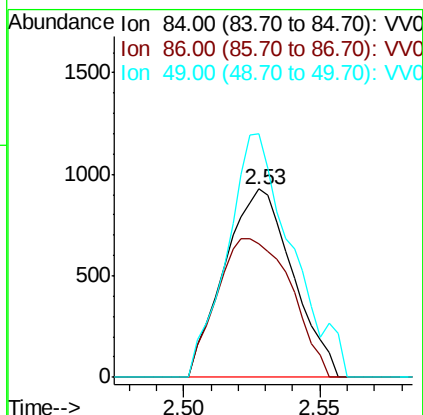
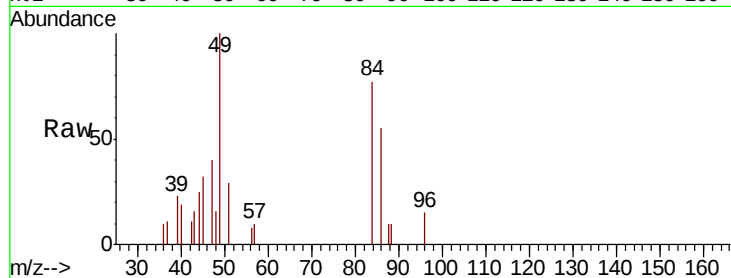




#16
Methvlene chloride
Concen: 0.763 ug/L
RT: 2.53 min Scan# 447
Delta R.T. 0.01 min
Lab File: VV017552.D
Acq: 20 Jul 2020 18:09

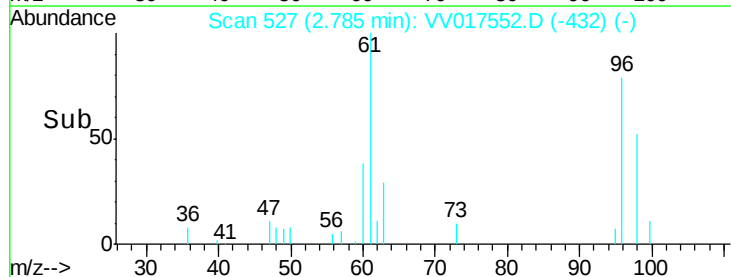
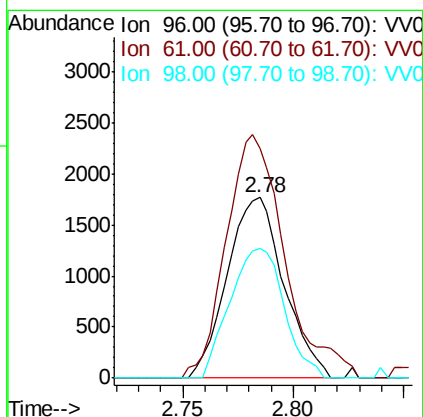
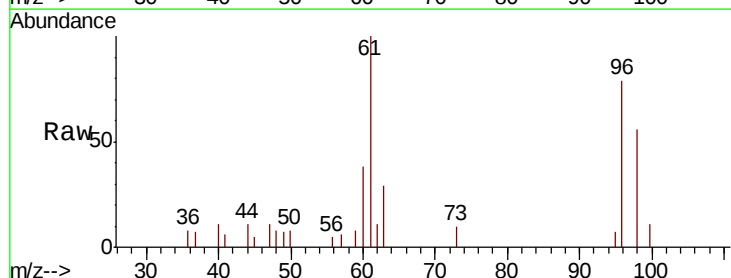
Instrument :
MSVOA_V
ClientSampleId :
PMW-3

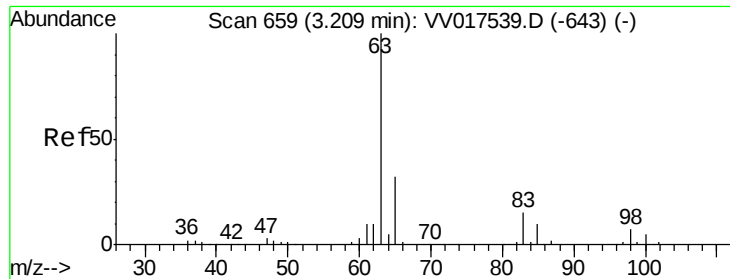
Tot Ion: 84 Resp: 1608
Ion Ratio Lower Upper
84 100
86 71.2 47.1 87.5
49 129.5 85.8 159.4



#17
trans-1,2-Dichloroethene
Concen: 1.736 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.01 min
Lab File: VV017552.D
Acq: 20 Jul 2020 18:09

Tgt Ion: 96 Resp: 3155
Ion Ratio Lower Upper
96 100
61 126.8 100.4 186.6
98 71.6 44.8 83.2





#19

1,1-Dichloroethane

Concen: 19.125 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV017552.D

Acq: 20 Jul 2020 18:09

Instrument :

MSVOA_V

ClientSampleId :

PMW-3

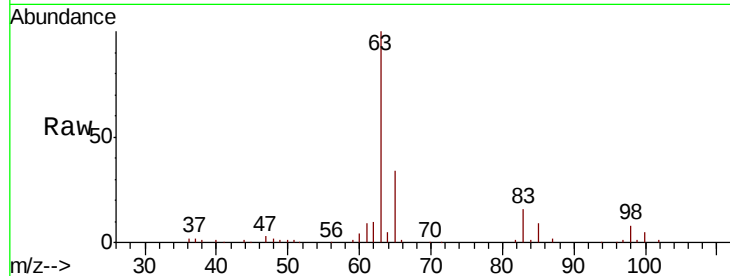
Tot Ion: 63 Resp: 64911

Ion Ratio Lower Upper

63 100

65 34.2 22.0 41.0

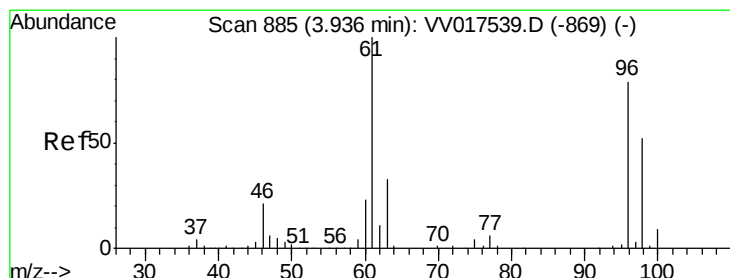
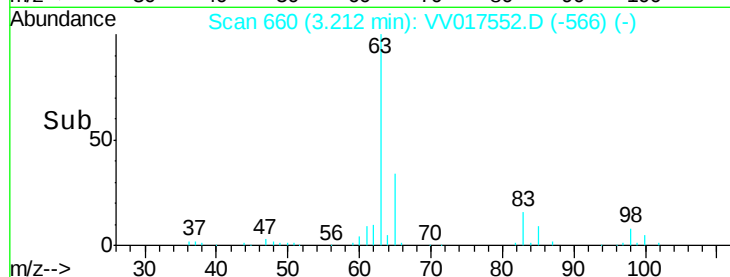
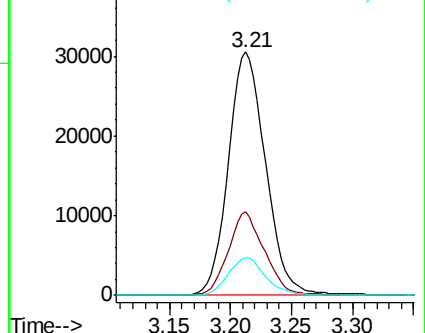
83 15.5 10.1 18.9



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 15.279 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV017552.D

Acq: 20 Jul 2020 18:09

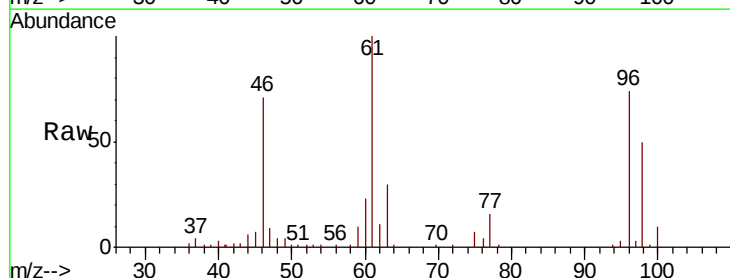
Tgt Ion: 96 Resp: 30457

Ion Ratio Lower Upper

96 100

61 135.1 88.5 164.4

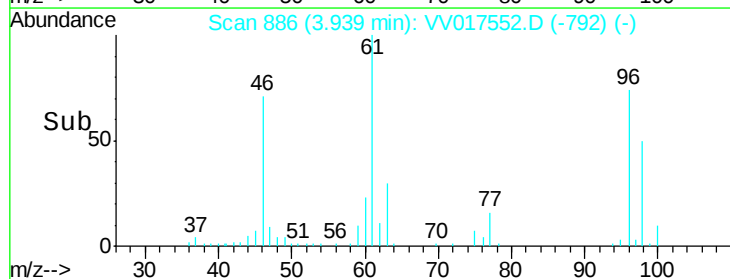
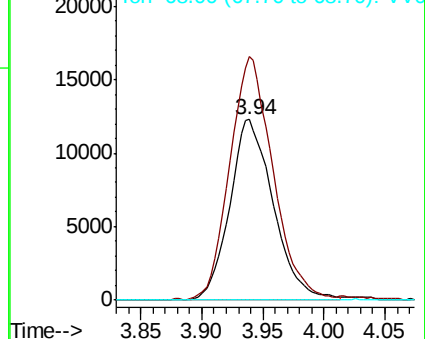
68 0.0 0.0 0.0

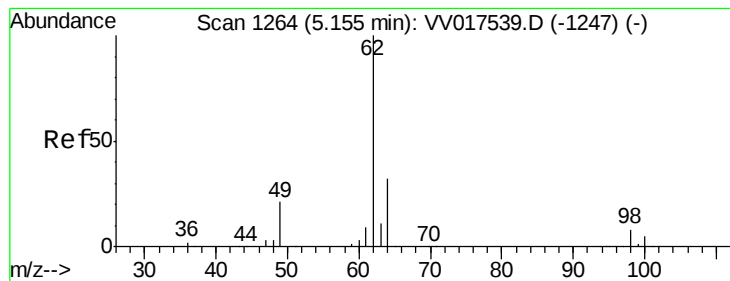


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#27

1,2-Dichloroethane

Concen: 4.362 ug/L

RT: 5.16 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VV017552.D

Acq: 20 Jul 2020 18:09

Instrument :

MSVOA_V

ClientSampleId :

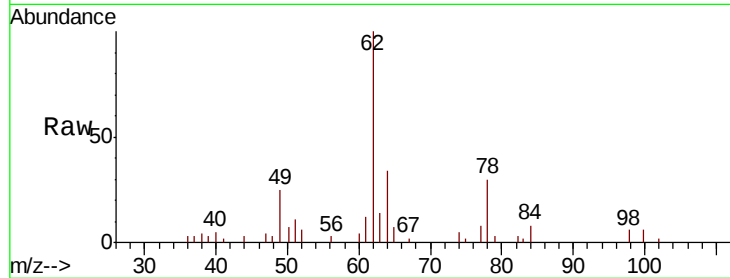
PMW-3

Tot Ion: 62 Resp: 14255

Ion Ratio Lower Upper

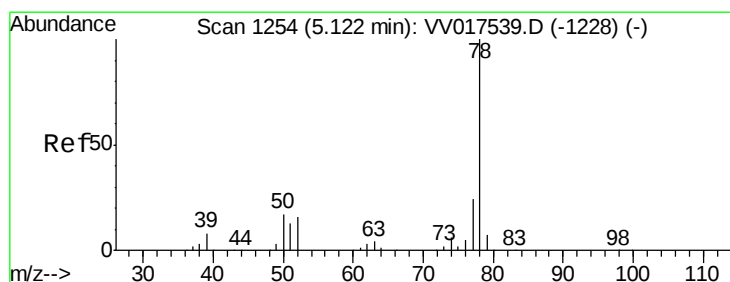
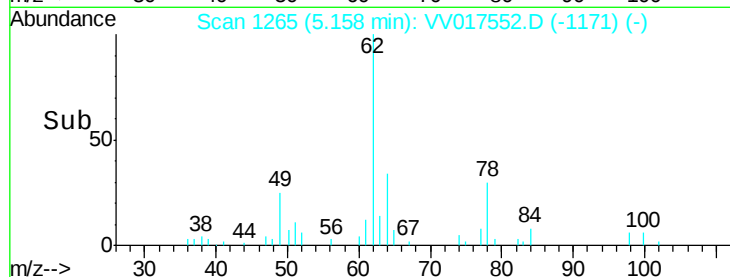
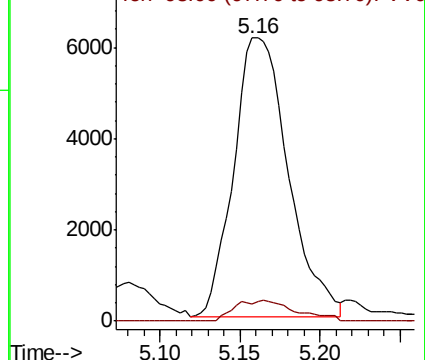
62 100

98 5.9 6.2 9.4#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#33

Benzene

Concen: 2.414 ug/L

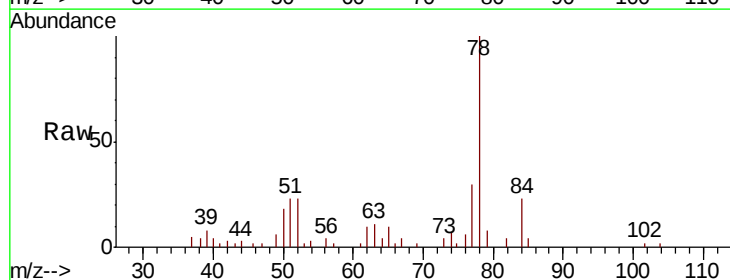
RT: 5.13 min Scan# 1257

Delta R.T. 0.01 min

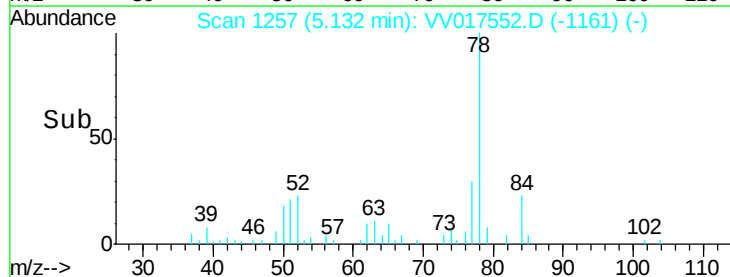
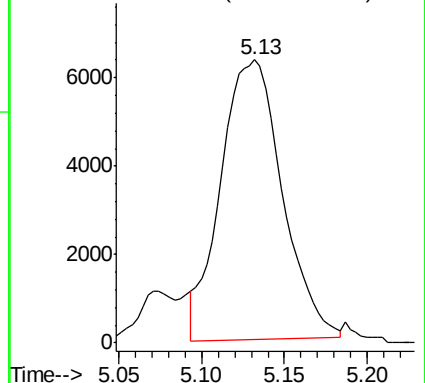
Lab File: VV017552.D

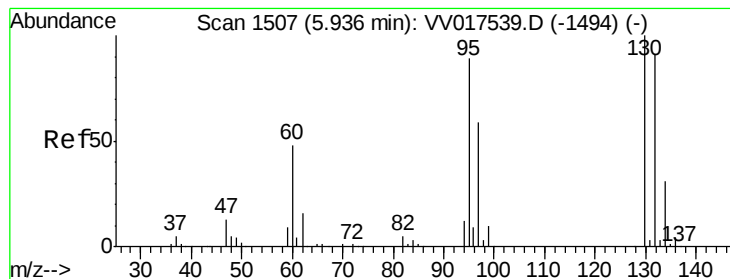
Acq: 20 Jul 2020 18:09

Tgt Ion: 78 Resp: 16346



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 1.569 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV017552.D

Acq: 20 Jul 2020 18:09

Instrument :

MSVOA_V

ClientSampled :

PMW-3

Tot Ion: 95 Resp: 2928

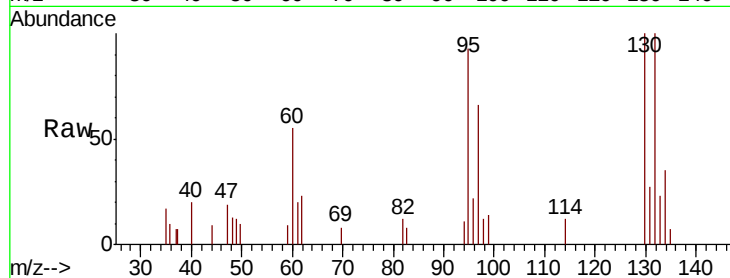
Ion Ratio Lower Upper

95 100

97 71.1 46.1 85.5

132 108.0 71.3 132.3

130 108.0 78.3 145.3



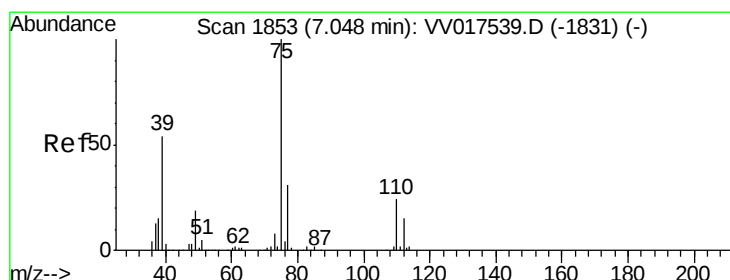
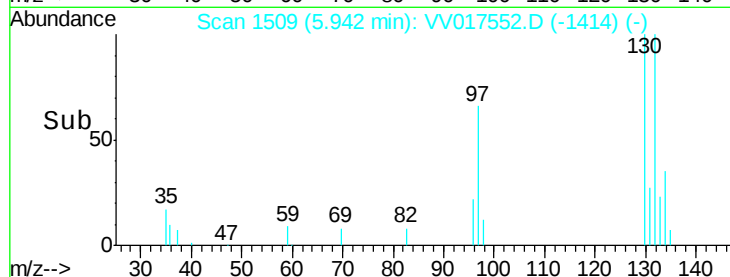
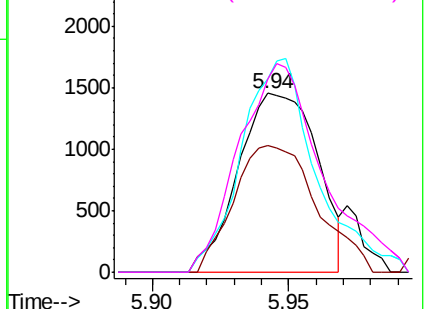
Abundance

Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#39

cis-1,3-Dichloropropene

Concen: 1.198 ug/L

RT: 7.01 min Scan# 1841

Delta R.T. -0.04 min

Lab File: VV017552.D

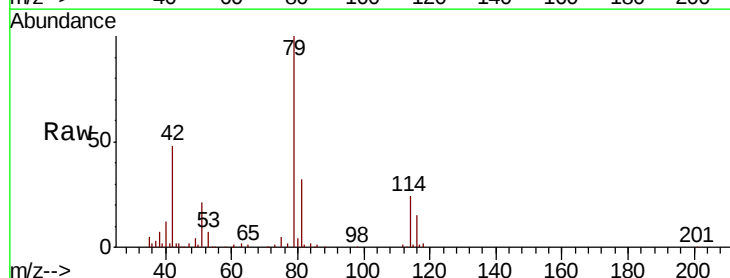
Acq: 20 Jul 2020 18:09

Tgt Ion: 75 Resp: 3483

Ion Ratio Lower Upper

75 100

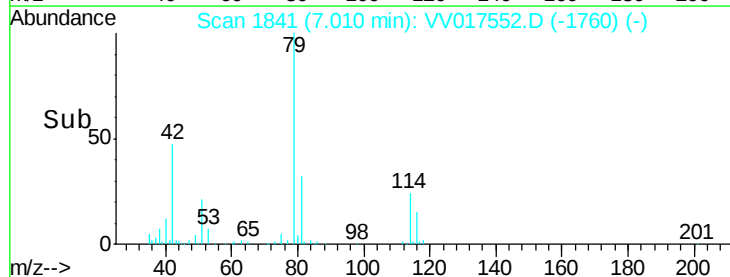
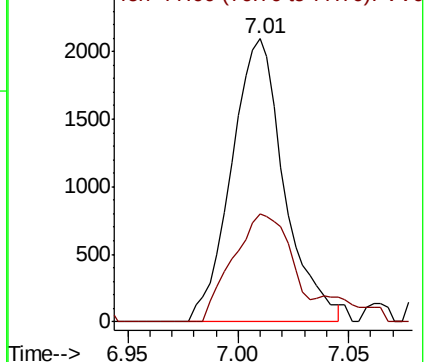
77 38.0 21.4 39.8

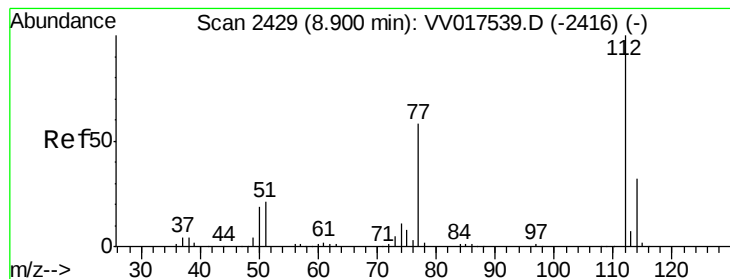


Abundance

Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#51

Chlorobenzene

Concen: 3.642 ug/L

RT: 8.90 min Scan# 2429

Delta R.T. -0.00 min

Lab File: VV017552.D

Acq: 20 Jul 2020 18:09

Instrument :

MSVOA_V

ClientSampleId :

PMW-3

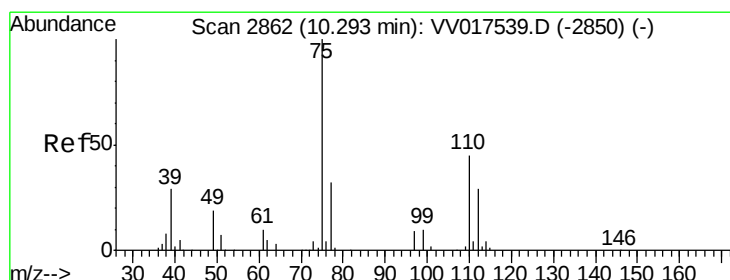
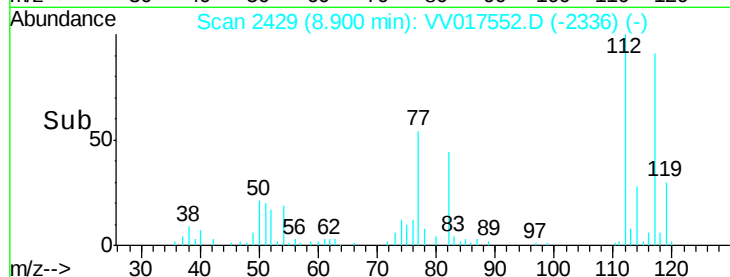
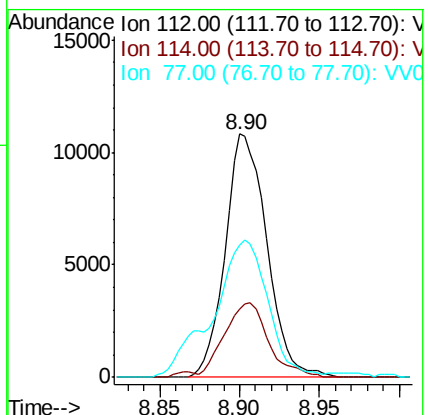
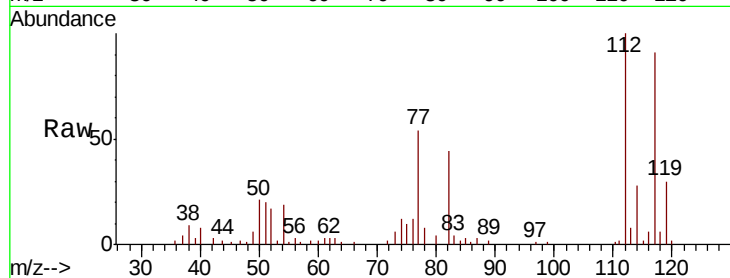
Tot Ion:112 Resp: 19184

Ion Ratio Lower Upper

112 100

114 28.0 22.7 42.1

77 54.5 46.9 70.3



#59

1,2,3-Trichloropropane

Concen: 6.936 ug/L

RT: 11.27 min Scan# 3166

Delta R.T. 0.98 min

Lab File: VV017552.D

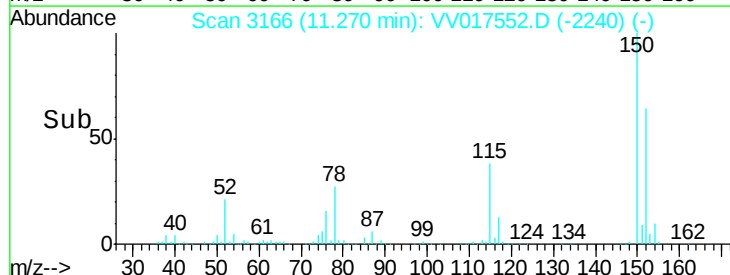
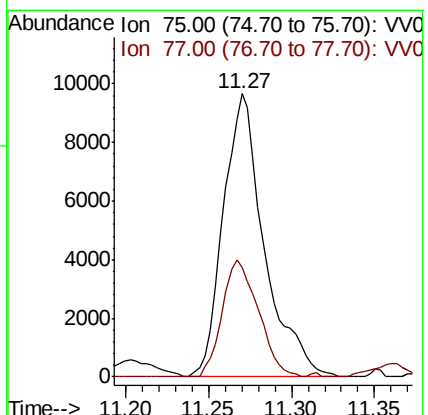
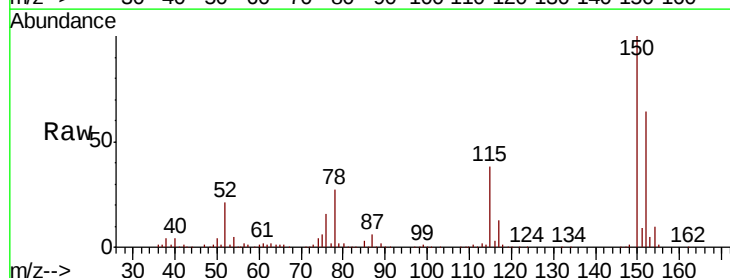
Acq: 20 Jul 2020 18:09

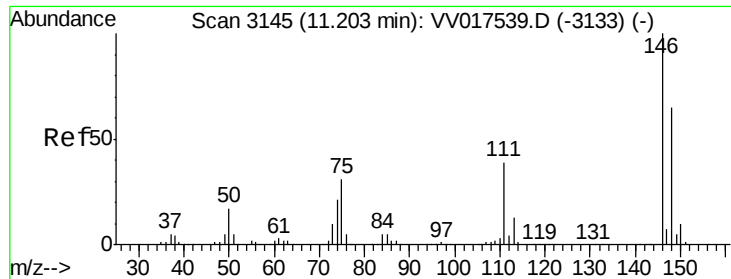
Tgt Ion: 75 Resp: 16604

Ion Ratio Lower Upper

75 100

77 36.4 25.9 38.9

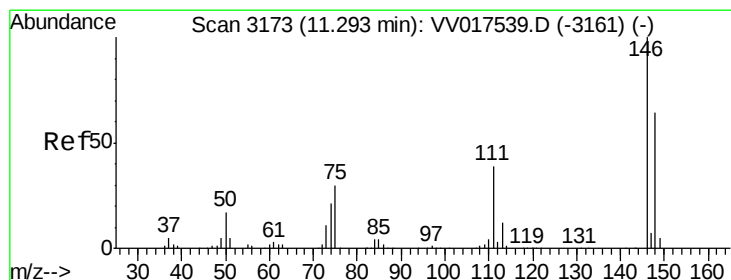
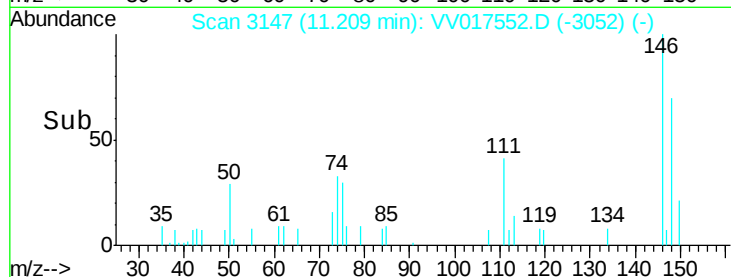
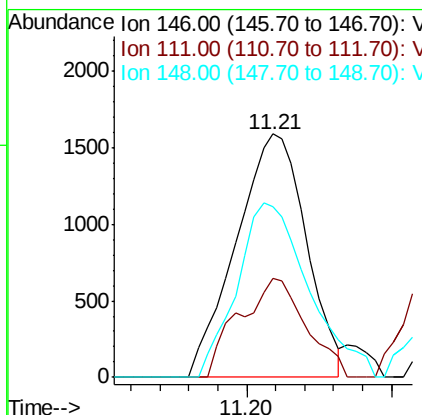
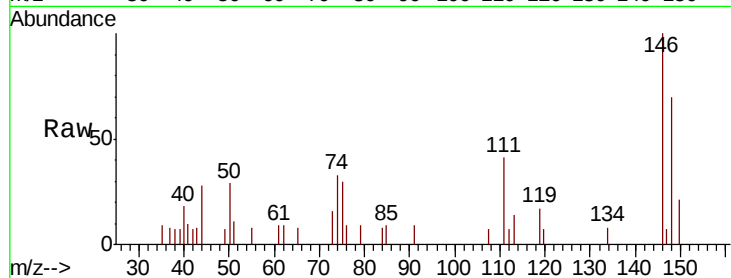




#62
 1,3-Dichlorobenzene
 Concen: 0.580 ug/L
 RT: 11.21 min Scan# 3147
 Delta R.T. 0.01 min
 Lab File: VV017552.D
 Acq: 20 Jul 2020 18:09

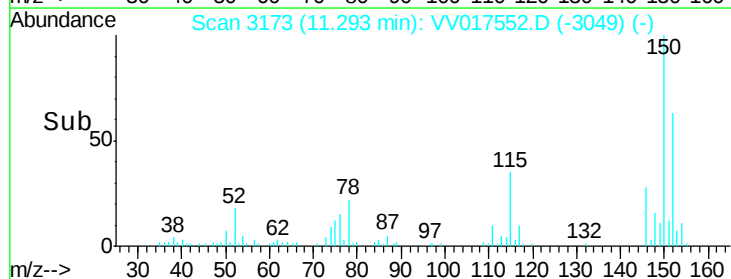
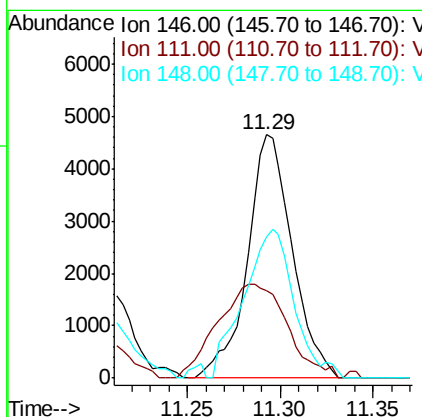
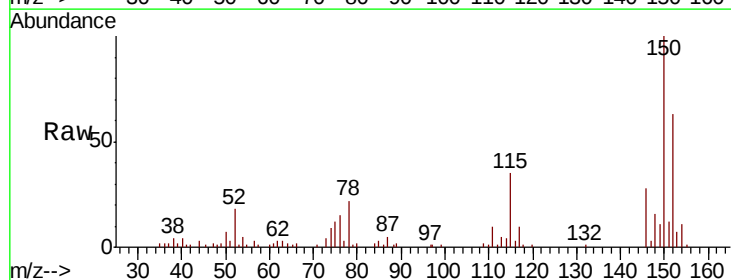
Instrument :
 MSVOA_V
 ClientSampleId :
 PMW-3

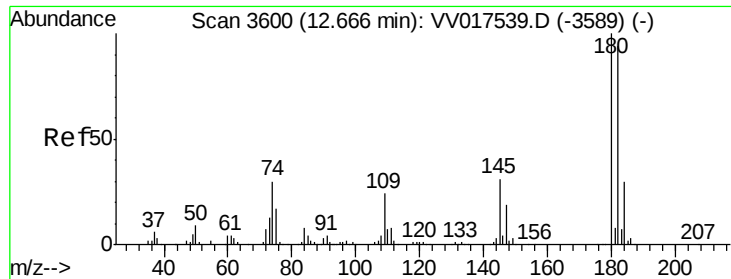
Tot Ion:146 Resp: 2666
 Ion Ratio Lower Upper
 146 100
 111 40.6 27.6 51.2
 148 70.1 45.8 85.0



#63
 1,4-Dichlorobenzene
 Concen: 1.633 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. -0.00 min
 Lab File: VV017552.D
 Acq: 20 Jul 2020 18:09

Tgt Ion:146 Resp: 7818
 Ion Ratio Lower Upper
 146 100
 111 35.7 27.2 50.4
 148 58.0 44.7 82.9

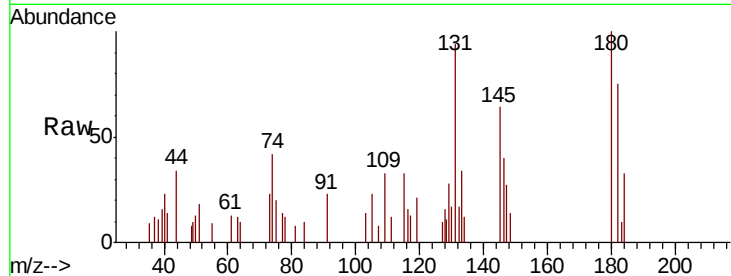




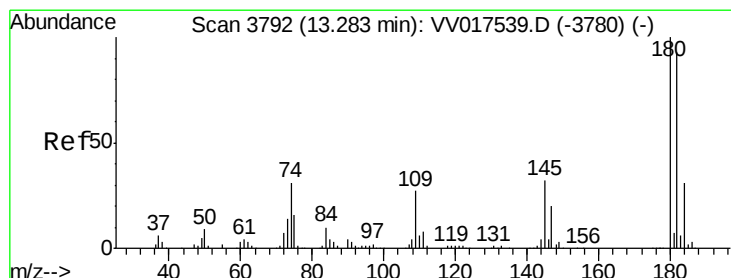
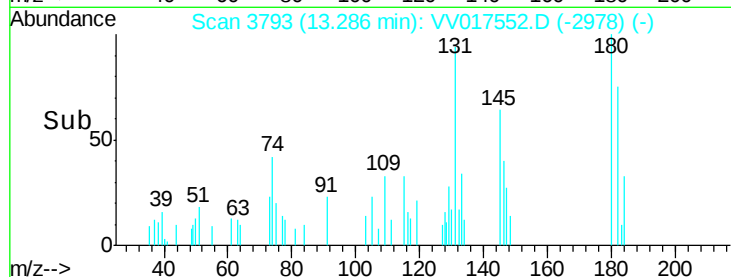
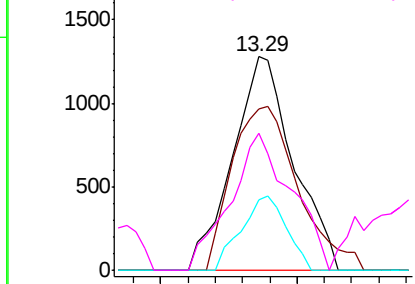
#67
 1,3,5-Trichlorobenzene
 Concen: 0.537 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.62 min
 Lab File: VV017552.D
 Acq: 20 Jul 2020 18:09

Instrument :
 MSVOA_V
 ClientSampleId :
 PMW-3

Tot Ion:180 Resp: 1973
 Ion Ratio Lower Upper
 180 100
 182 83.3 76.0 114.0
 184 25.8 24.4 36.6
 145 64.9 24.2 36.4#

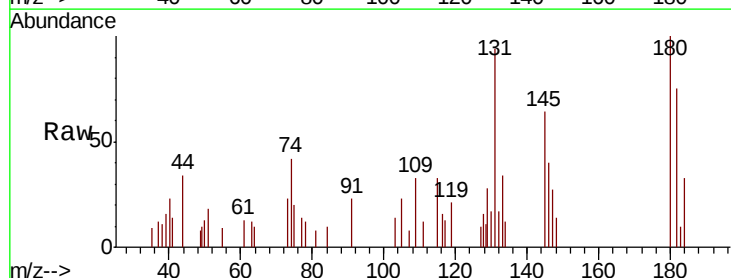


Abundance Ion 180.00 (179.70 to 180.70): V
 2000
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

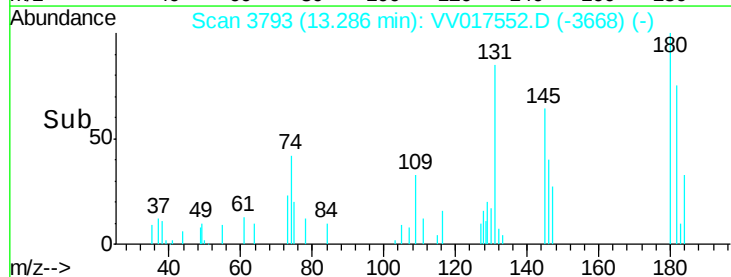
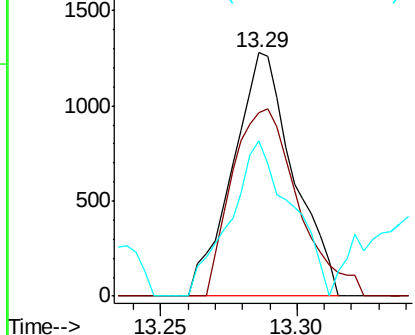


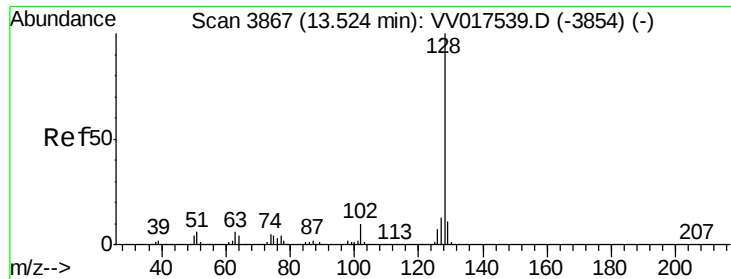
#68
 1,2,4-trichlorobenzene
 Concen: 0.597 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV017552.D
 Acq: 20 Jul 2020 18:09

Tgt Ion:180 Resp: 1973
 Ion Ratio Lower Upper
 180 100
 182 83.3 76.0 114.0
 145 64.9 24.9 37.3#



Abundance Ion 180.00 (179.70 to 180.70): V
 1500
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 2.324 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

Lab File: VV017552.D

Acq: 20 Jul 2020 18:09

Instrument :

MSVOA_V

ClientSampleId :

PMW-3

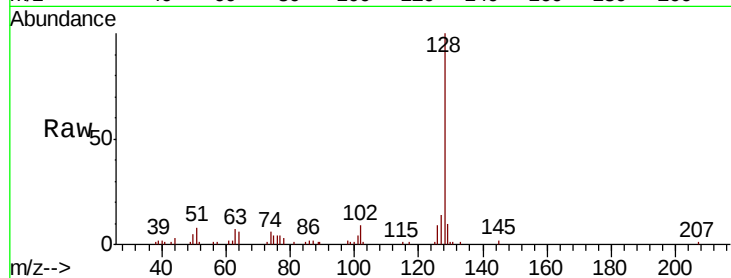
Tot Ion:128 Resp: 21612

Ion Ratio Lower Upper

128 100

127 14.8 10.7 16.1

129 12.4 9.0 13.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

