

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV072020\
 Data File : VV017557.D
 Acq On : 20 Jul 2020 20:06
 Operator : SY/MD
 Sample : L3336-17MSD
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 21 01:48:24 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	355745	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	341368	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	168608	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	76548	38.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	77.14%
7) Chloroethane-d5	1.58	69	57475	35.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	70.38%
11) 1,1-Dichloroethene-d2	2.13	63	389449	80.69	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	161.38%#
21) 2-Butanone-d5	3.91	46	152025	105.44	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.44%
24) Chloroform-d	4.38	84	206228	45.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.72%
26) 1,2-Dichloroethane-d4	5.06	65	142918	46.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.12%
32) Benzene-d6	5.07	84	379010	50.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.68%
36) 1,2-Dichloropropane-d6	6.09	67	117087	52.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.44%
41) Toluene-d8	7.34	98	343254	48.11	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.22%
43) trans-1,3-Dichloropropene-	7.64	79	61730	45.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.36%
47) 2-Hexanone-d5	8.11	63	113607	108.94	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.94%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	168745	52.64	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.28%
64) 1,2-Dichlorobenzene-d4	11.65	152	154030	50.55	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.10%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	47768	16.760	ug/L	100
8) Chloroethane	1.60	64	1589	0.979	ug/L	99
9) Trichlorofluoromethane	2.13	101	19939	4.015	ug/L	93
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	21469	8.096	ug/L	95
13) Acetone	2.19	43	4696	2.670	ug/L	96
16) Methylene chloride	2.52	84	2624	0.986	ug/L	97
17) trans-1,2-Dichloroethene	2.78	96	15844	6.900	ug/L	96
19) 1,1-Dichloroethane	3.21	63	5901457	1375.845	ug/L	99
20) cis-1,2-Dichloroethene	3.94	96	593164	235.448	ug/L	97
27) 1,2-Dichloroethane	5.16	62	88211	21.357	ug/L	97
30) 1,1,1-Trichloroethane	4.64	97	45746	10.026	ug/L	95
33) Benzene	5.12	78	518383	58.786	ug/L	100
34) Trichloroethene	5.94	95	886658	364.814	ug/L	97
39) cis-1,3-Dichloropropene	7.01	75	4166	1.101	ug/L	86
42) Toluene	7.41	91	501303	51.451	ug/L	98
48) 2-Hexanone	8.11	43	14839	5.978	ug/L #	55
51) Chlorobenzene	8.90	112	381758	55.663	ug/L	99

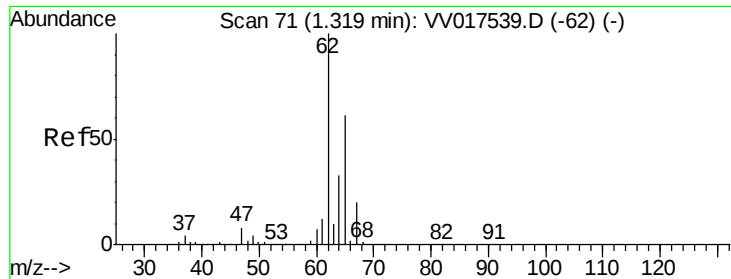
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV072020\
Data File : VV017557.D
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Quant Title : VOC Analysis
QLast Update : Mon Jul 20 18:07:44 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3-Dichlorobenzene	11.21	146	17983	3.411	ug/L	96
63) 1,4-Dichlorobenzene	11.30	146	54752	9.970	ug/L	99
67) 1,3,5-Trichlorobenzene	13.29	180	8295	1.967	ug/L	99
68) 1,2,4-trichlorobenzene	13.29	180	8295	2.189	ug/L	99

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



#5

Vinyl chloride

Concen: 16.760 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV017557.D

Acq: 20 Jul 2020 20:06

Instrument :

MSVOA_V

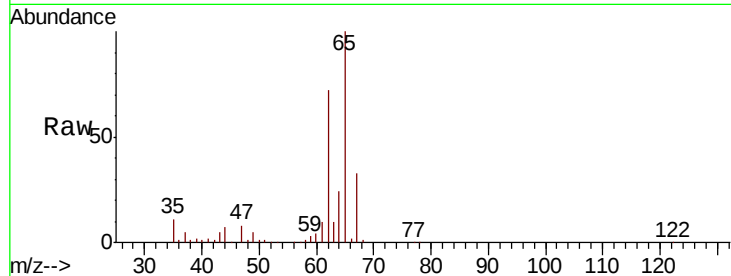
ClientSampled :

Tot Ion: 62 Resp: 47768

Ion Ratio Lower Upper

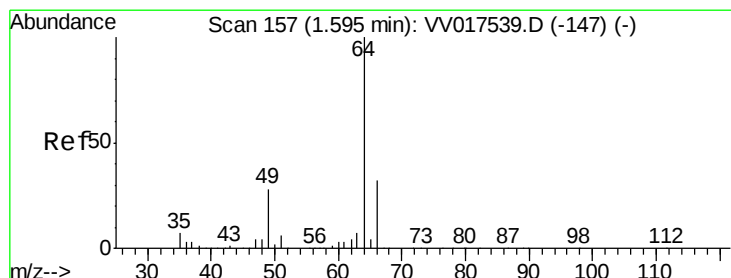
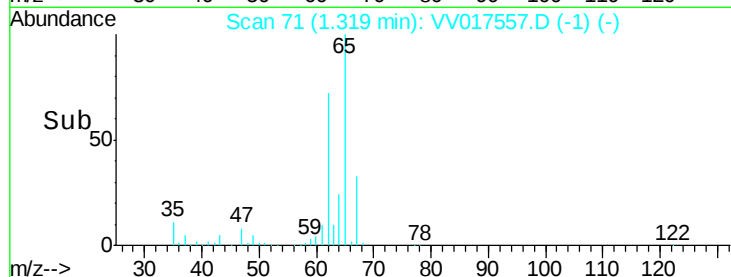
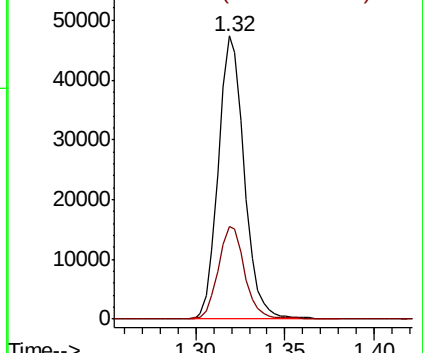
62 100

64 32.7 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#8

Chloroethane

Concen: 0.979 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV017557.D

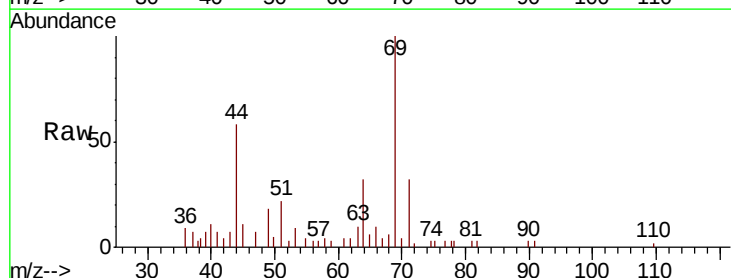
Acq: 20 Jul 2020 20:06

Tgt Ion: 64 Resp: 1589

Ion Ratio Lower Upper

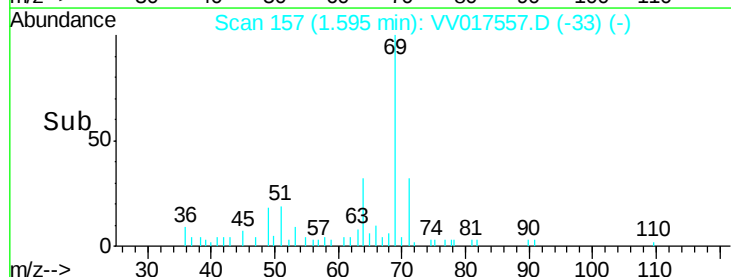
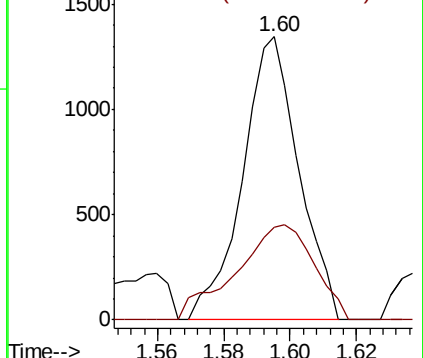
64 100

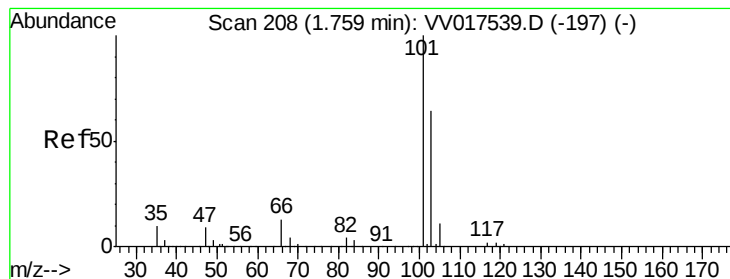
66 33.0 22.8 42.4



Abundance Ion 64.00 (63.70 to 64.70): VV0

Ion 66.00 (65.70 to 66.70): VV0



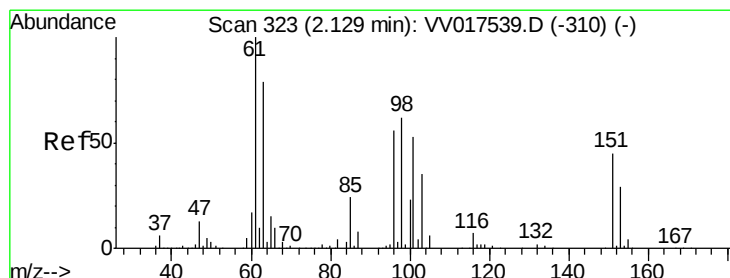
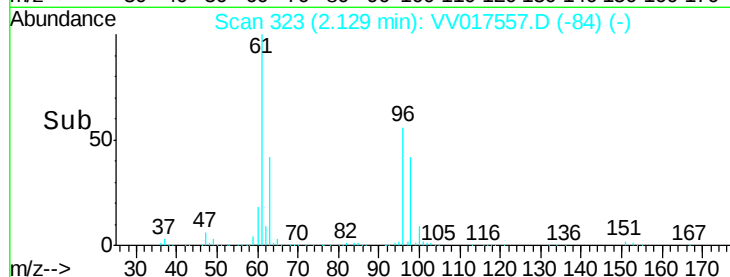
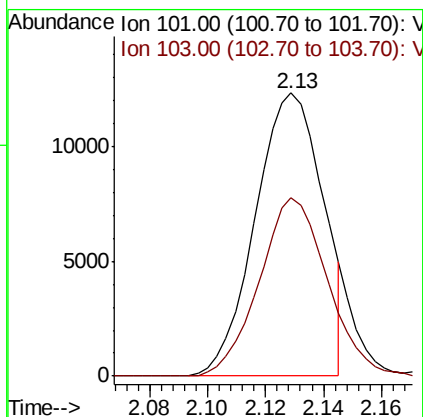
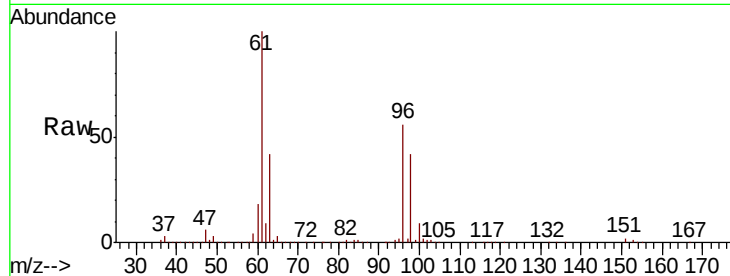


#9

Trichlorofluoromethane
Concen: 4.015 ug/L
RT: 2.13 min Scan# 323
Delta R.T. 0.37 min
Lab File: VV017557.D
Acq: 20 Jul 2020 20:06

Instrument :
MSVOA_V
ClientSampleId :

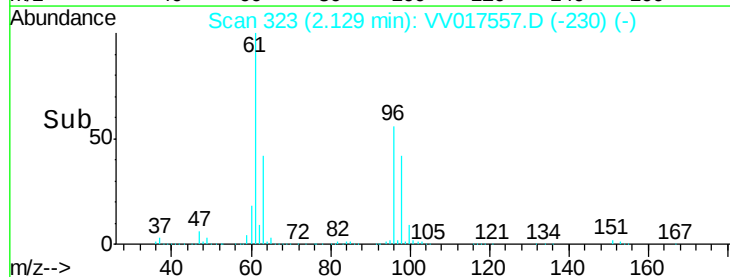
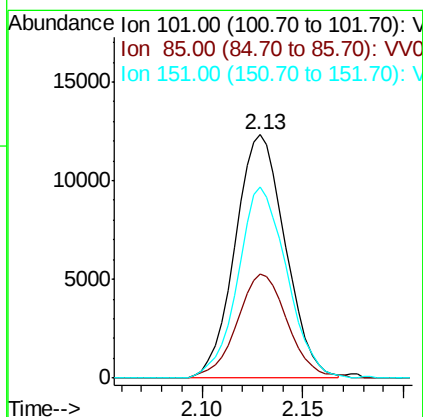
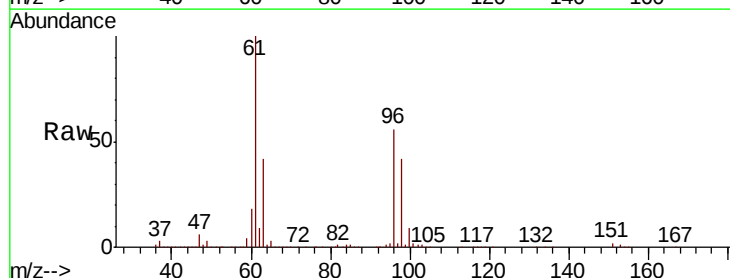
Tot Ion:101 Resp: 19939
Ion Ratio Lower Upper
101 100
103 58.9 51.2 76.8

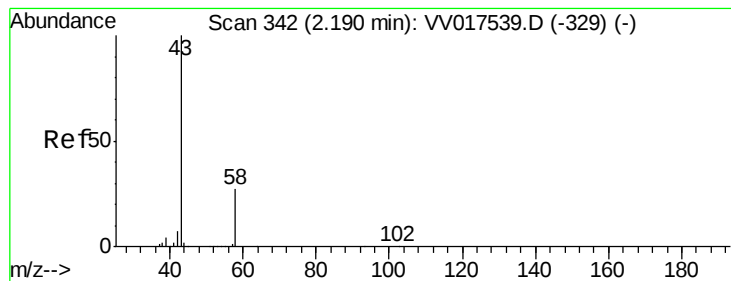


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 8.096 ug/L
RT: 2.13 min Scan# 323
Delta R.T. -0.00 min
Lab File: VV017557.D
Acq: 20 Jul 2020 20:06

Tgt Ion:101 Resp: 21469
Ion Ratio Lower Upper
101 100
85 43.1 36.2 54.4
151 76.5 65.9 98.9





#13

Acetone

Concen: 2.670 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.00 min

Lab File: VV017557.D

Acq: 20 Jul 2020 20:06

Instrument :

MSVOA_V

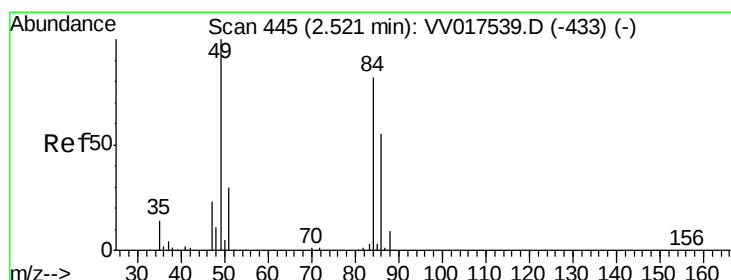
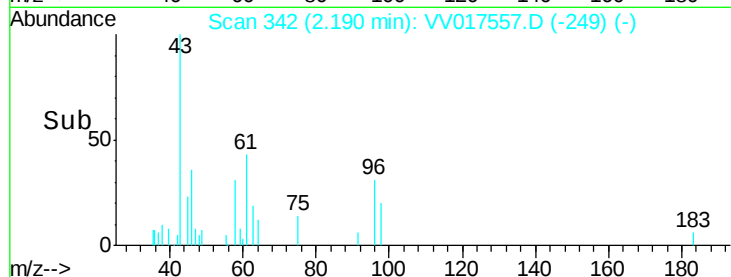
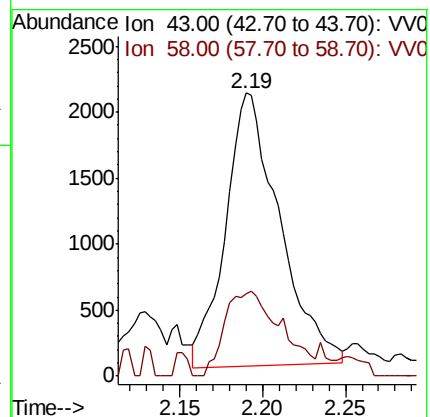
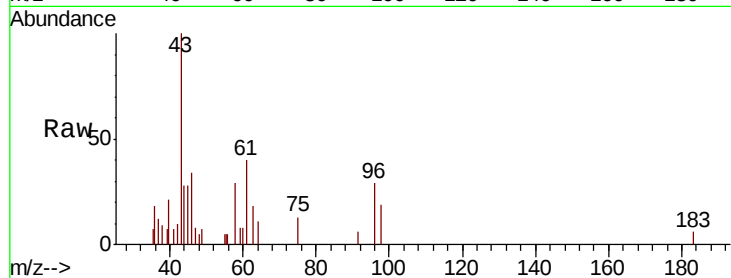
ClientSampleId :

Tot Ion: 43 Resp: 4696

Ion Ratio Lower Upper

43 100

58 25.9 0.0 56.0



#16

Methylene chloride

Concen: 0.986 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV017557.D

Acq: 20 Jul 2020 20:06

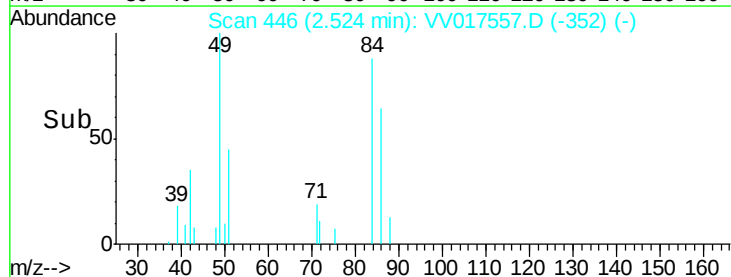
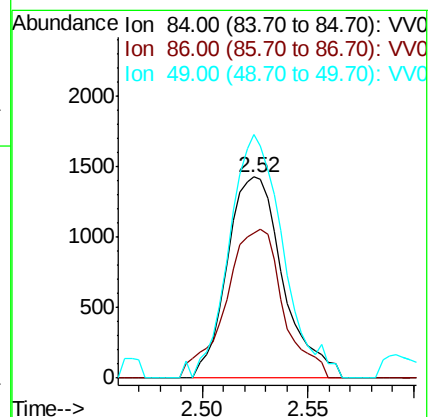
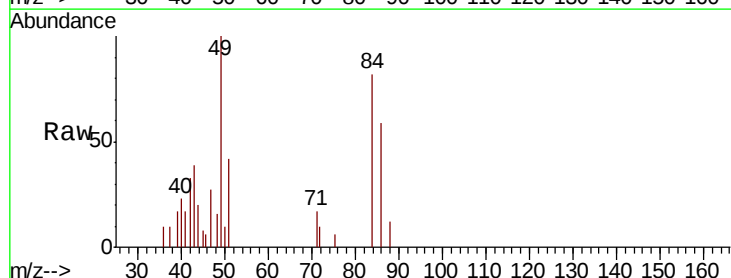
Tgt Ion: 84 Resp: 2624

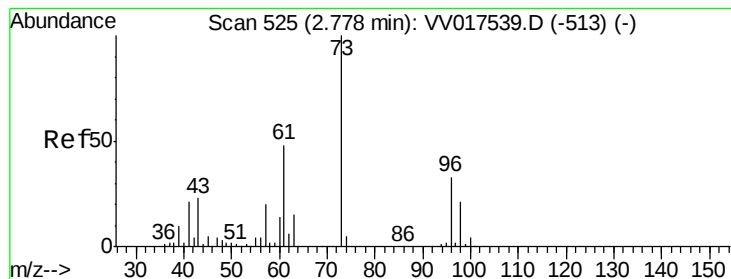
Ion Ratio Lower Upper

84 100

86 72.1 47.1 87.5

49 121.3 85.8 159.4





#17

trans-1,2-Dichloroethene

Concen: 6.900 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV017557.D

Acq: 20 Jul 2020 20:06

Instrument :

MSVOA_V

ClientSampleId :

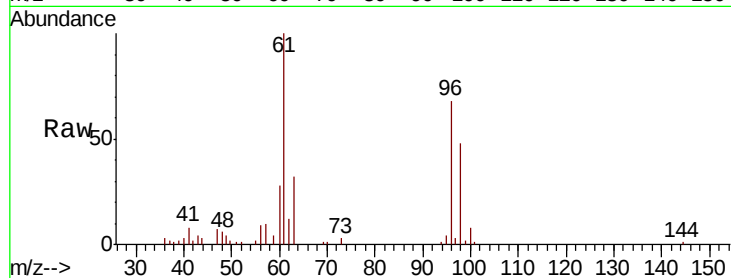
Tot Ion: 96 Resp: 15844

Ion Ratio Lower Upper

96 100

61 146.2 100.4 186.6

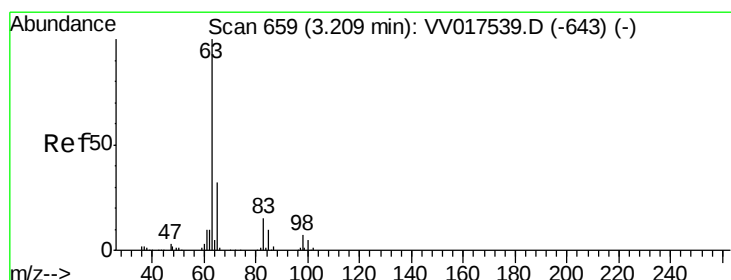
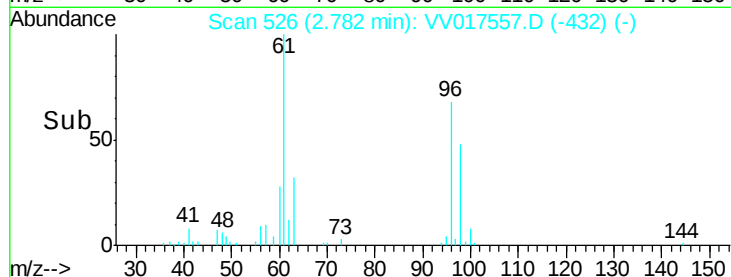
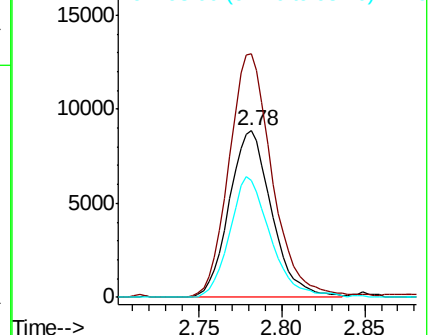
98 70.1 44.8 83.2



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#19

1,1-Dichloroethane

Concen: 1375.845 ug/L

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VV017557.D

Acq: 20 Jul 2020 20:06

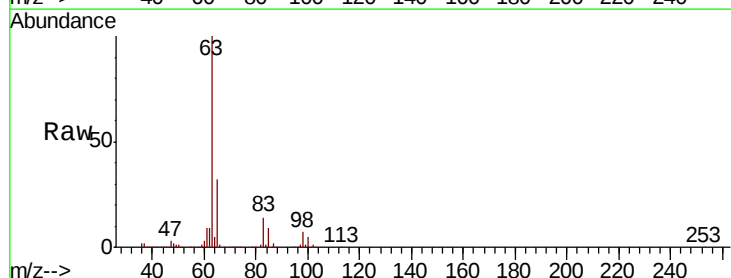
Tgt Ion: 63 Resp: 5901457

Ion Ratio Lower Upper

63 100

65 32.0 22.0 41.0

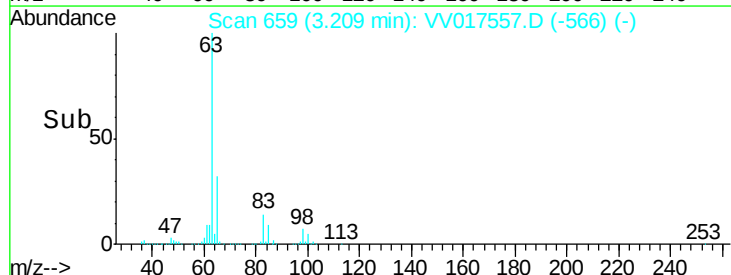
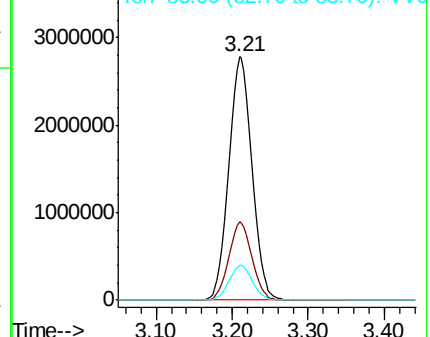
83 14.3 10.1 18.9

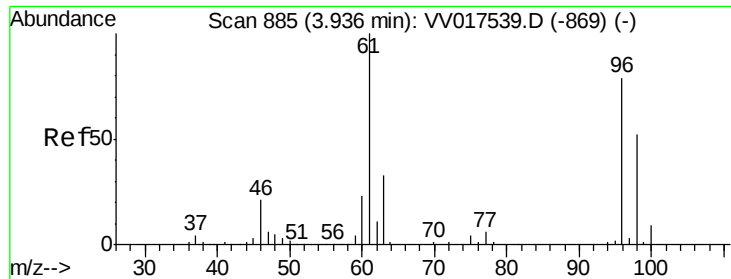


Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

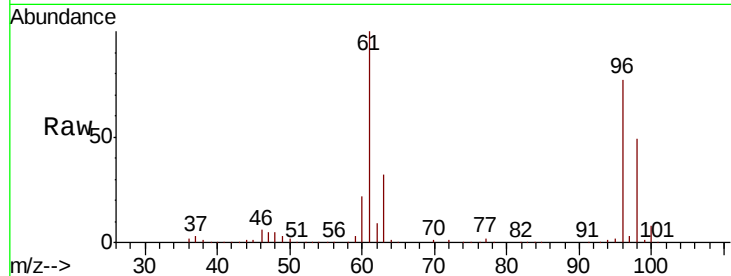




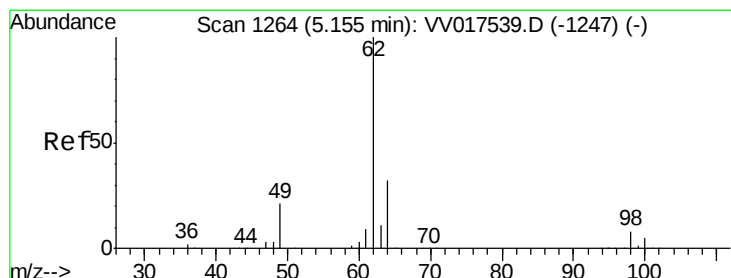
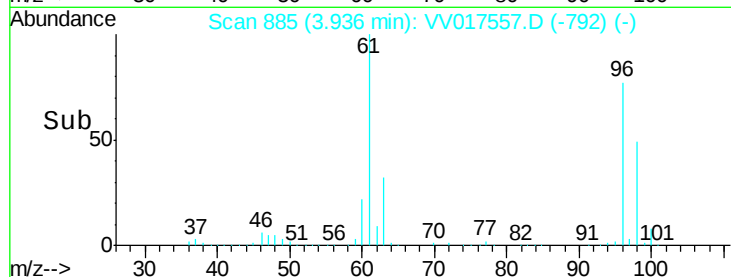
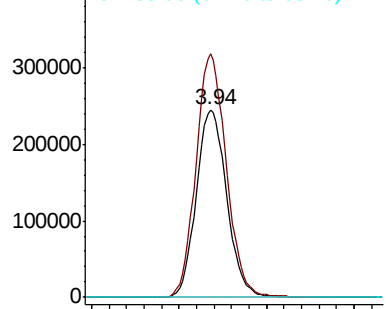
#20
 cis-1,2-Dichloroethene
 Concen: 235.448 ug/L
 RT: 3.94 min Scan# 885
 Delta R.T. -0.00 min
 Lab File: VV017557.D
 Acq: 20 Jul 2020 20:06

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 96 Resp: 593164
 Ion Ratio Lower Upper
 96 100
 61 129.7 88.5 164.4
 68 0.0 0.0 0.0

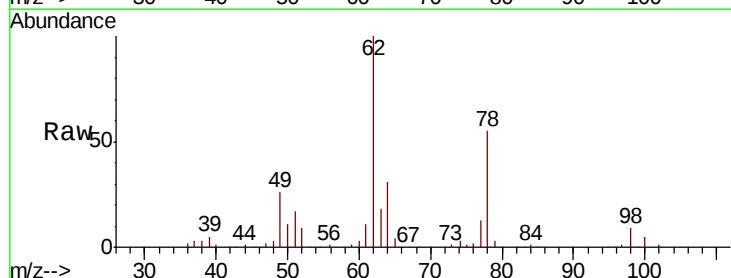


Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 68.00 (67.70 to 68.70): VV0

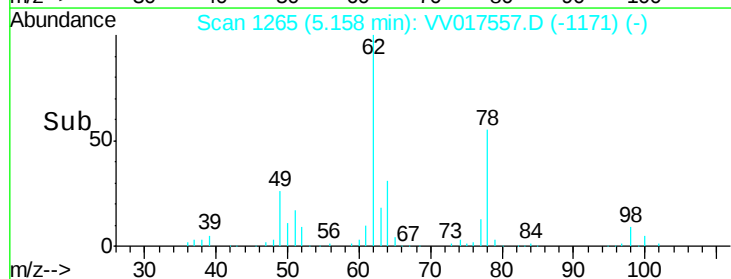
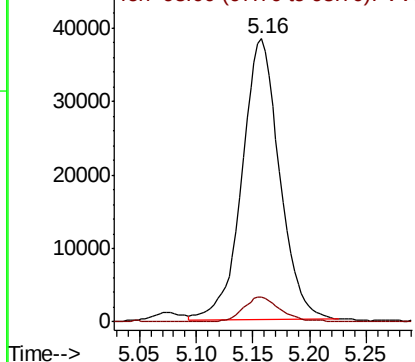


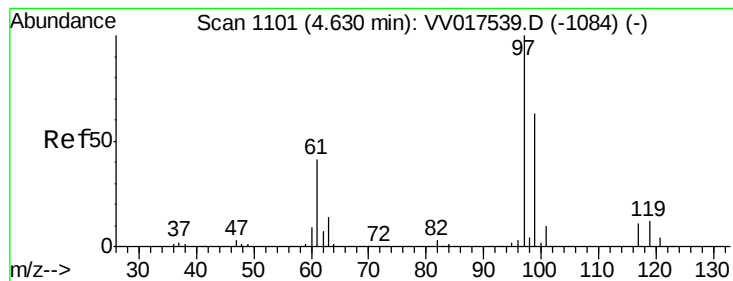
#27
 1,2-Dichloroethane
 Concen: 21.357 ug/L
 RT: 5.16 min Scan# 1265
 Delta R.T. 0.00 min
 Lab File: VV017557.D
 Acq: 20 Jul 2020 20:06

Tgt Ion: 62 Resp: 88211
 Ion Ratio Lower Upper
 62 100
 98 8.9 6.2 9.4



Abundance Ion 62.00 (61.70 to 62.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0





#30

1,1,1-Trichloroethane

Concen: 10.026 ug/L

RT: 4.64 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VV017557.D

Acq: 20 Jul 2020 20:06

Instrument :

MSVOA_V

ClientSampled :

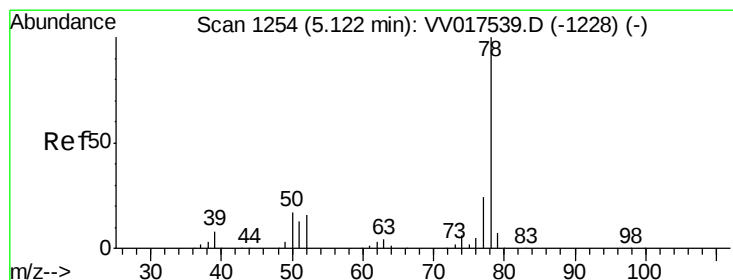
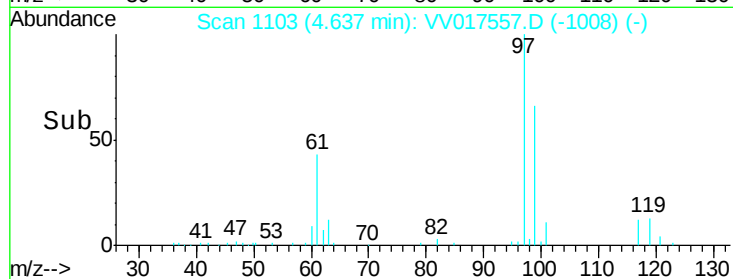
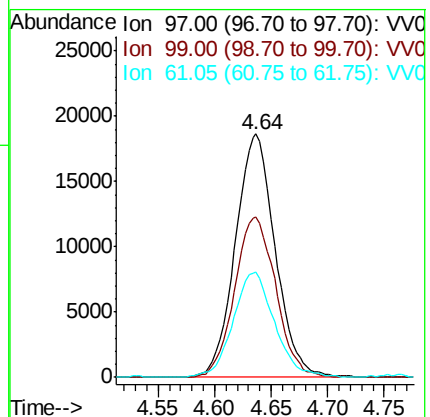
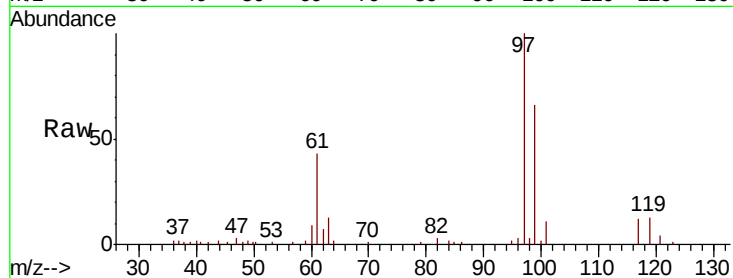
Tot Ion: 97 Resp: 45746

Ion Ratio Lower Upper

97 100

99 68.0 50.5 75.7

61 44.8 34.1 51.1



#33

Benzene

Concen: 58.786 ug/L

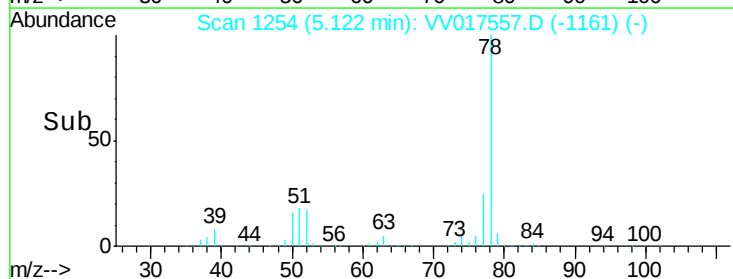
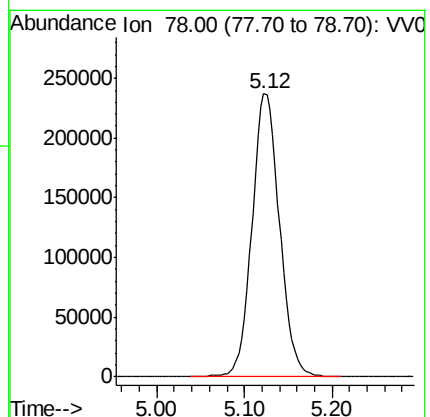
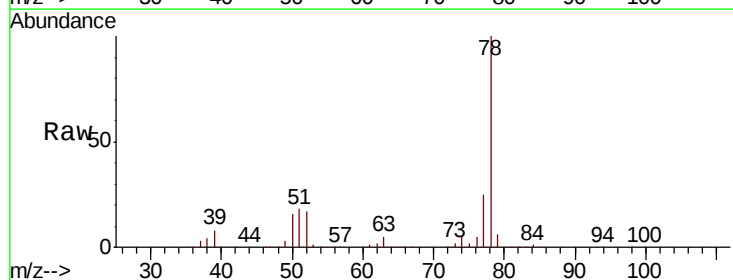
RT: 5.12 min Scan# 1254

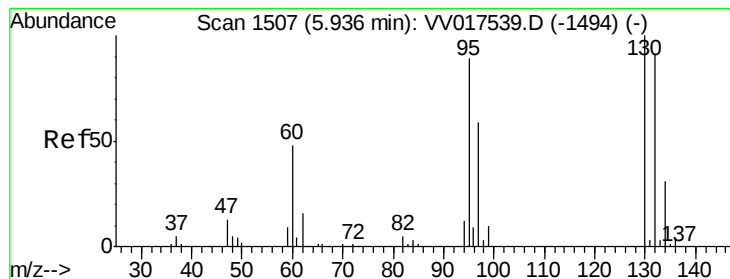
Delta R.T. -0.00 min

Lab File: VV017557.D

Acq: 20 Jul 2020 20:06

Tgt Ion: 78 Resp: 518383





#34

Trichloroethene

Concen: 364.814 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV017557.D

Acq: 20 Jul 2020 20:06

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 95 Resp: 886658

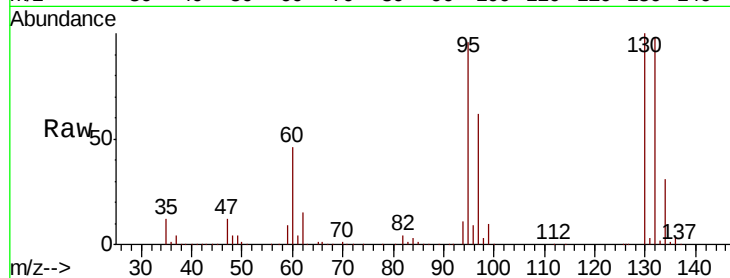
Ion Ratio Lower Upper

95 100

97 64.4 46.1 85.5

132 101.6 71.3 132.3

130 103.9 78.3 145.3

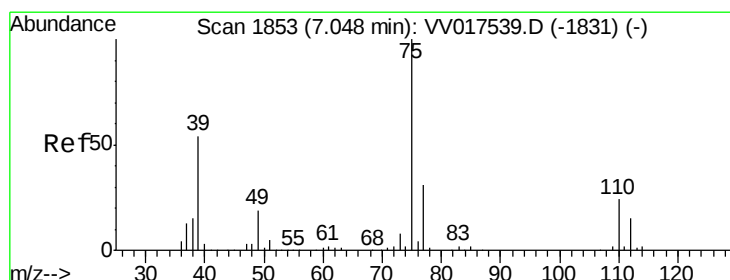
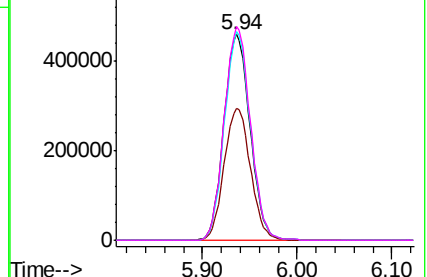
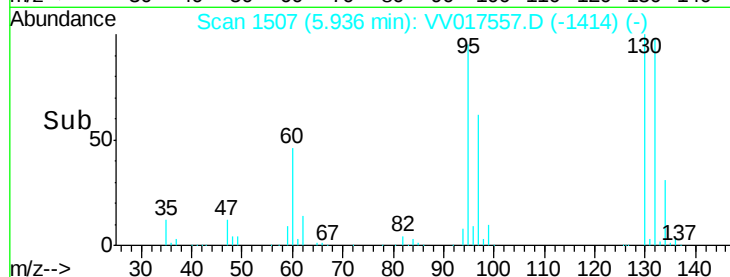


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 1.101 ug/L

RT: 7.01 min Scan# 1840

Delta R.T. -0.04 min

Lab File: VV017557.D

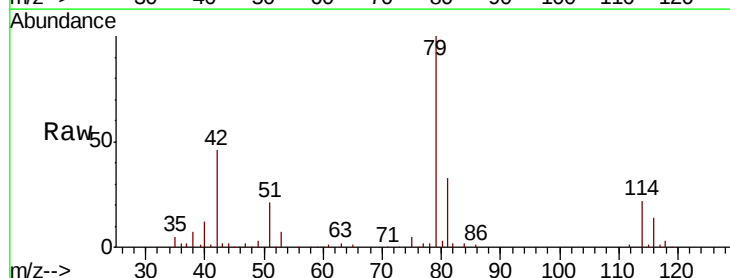
Acq: 20 Jul 2020 20:06

Tgt Ion: 75 Resp: 4166

Ion Ratio Lower Upper

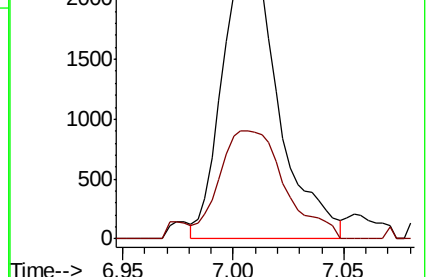
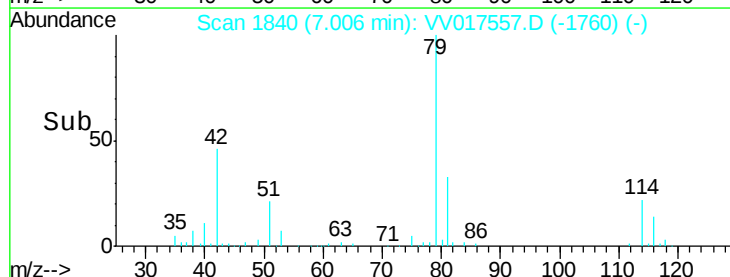
75 100

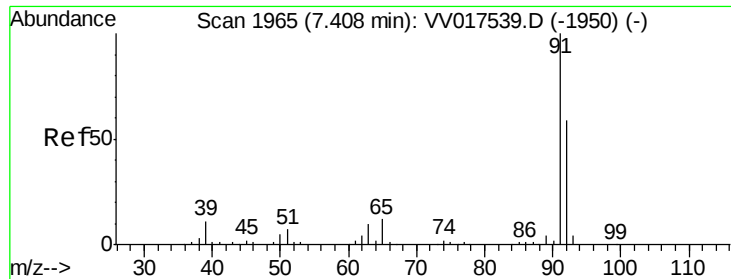
77 38.1 21.4 39.8



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#42

Toluene

Concen: 51.451 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV017557.D

Acq: 20 Jul 2020 20:06

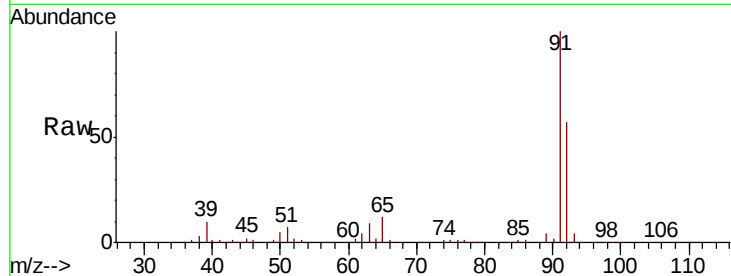
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 501303

Ion Ratio Lower Upper

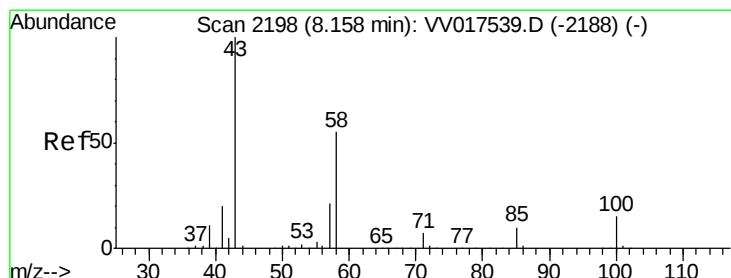
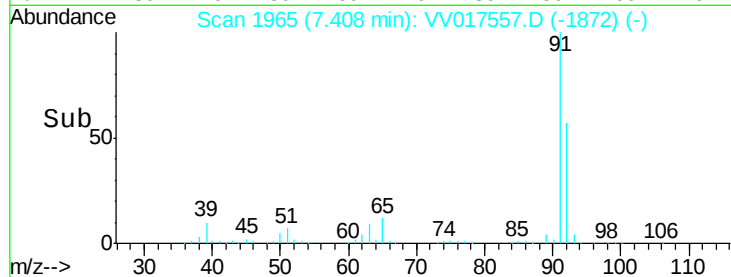
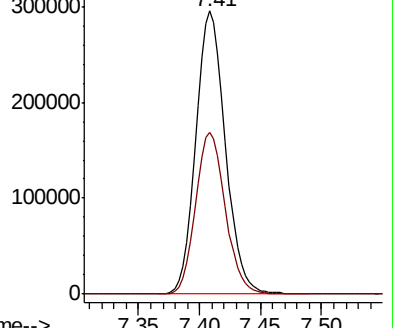
91 100

92 57.2 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV017539.D (-1950) (-)

Ion 92.00 (91.70 to 92.70): VV017539.D (-1950) (-)



#48

2-Hexanone

Concen: 5.978 ug/L

RT: 8.11 min Scan# 2182

Delta R.T. -0.05 min

Lab File: VV017557.D

Acq: 20 Jul 2020 20:06

Tgt Ion: 43 Resp: 14839

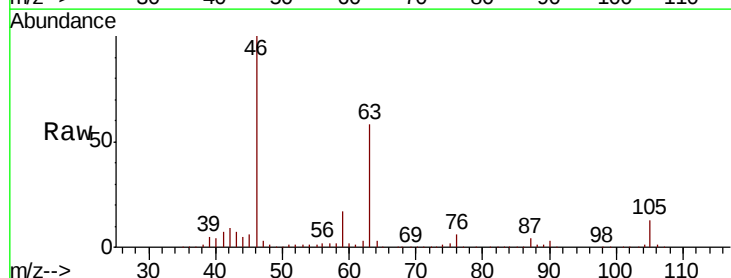
Ion Ratio Lower Upper

43 100

58 10.4 43.3 64.9#

57 27.0 17.2 25.8#

100 0.0 11.7 17.5#

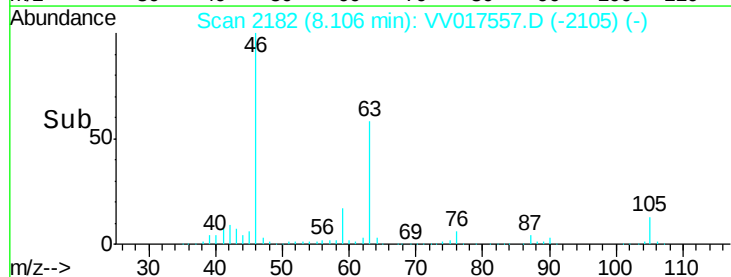
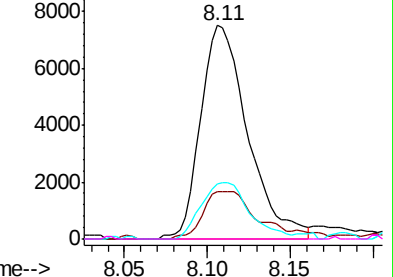


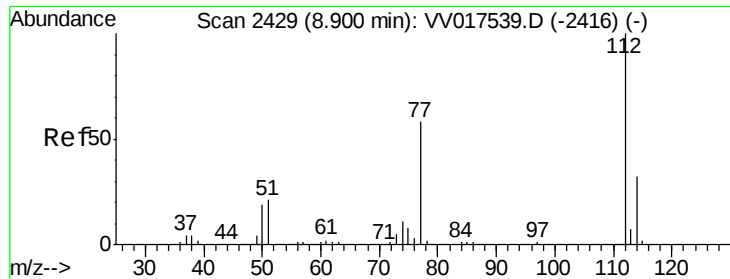
Abundance Ion 43.00 (42.70 to 43.70): VV017539.D (-2188) (-)

Ion 58.00 (57.70 to 58.70): VV017539.D (-2188) (-)

Ion 57.00 (56.70 to 57.70): VV017539.D (-2188) (-)

Ion 100.00 (99.70 to 100.70): VV017539.D (-2188) (-)





#51

Chlorobenzene

Concen: 55.663 ug/L

RT: 8.90 min Scan# 2429

Delta R.T. -0.00 min

Lab File: VV017557.D

Acq: 20 Jul 2020 20:06

Instrument :
MSVOA_V
ClientSampleId :

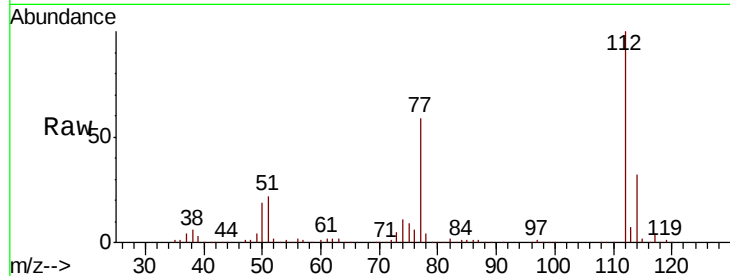
Tot Ion:112 Resp: 381758

Ion Ratio Lower Upper

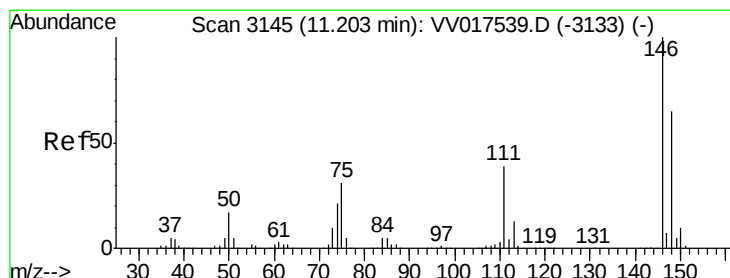
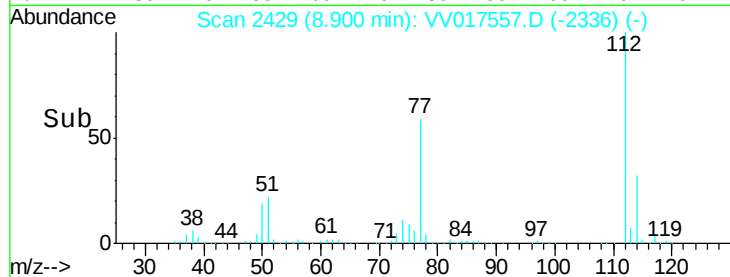
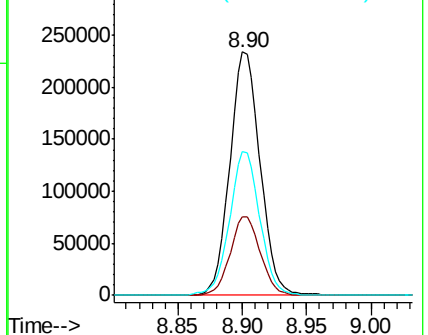
112 100

114 32.4 22.7 42.1

77 59.2 46.9 70.3



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V



#62

1,3-Dichlorobenzene

Concen: 3.411 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV017557.D

Acq: 20 Jul 2020 20:06

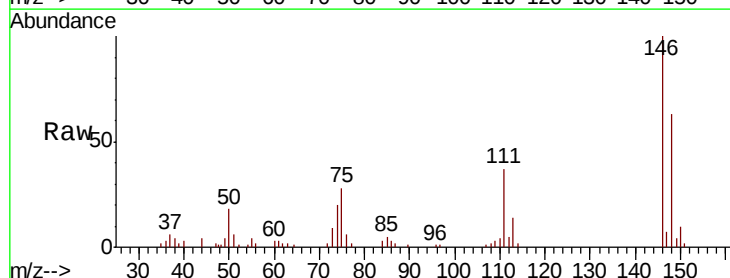
Tgt Ion:146 Resp: 17983

Ion Ratio Lower Upper

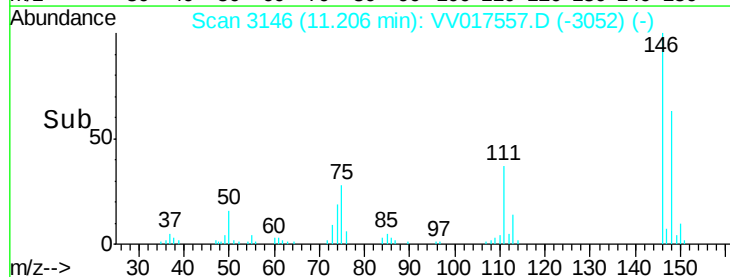
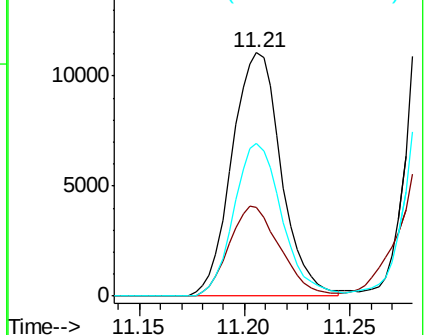
146 100

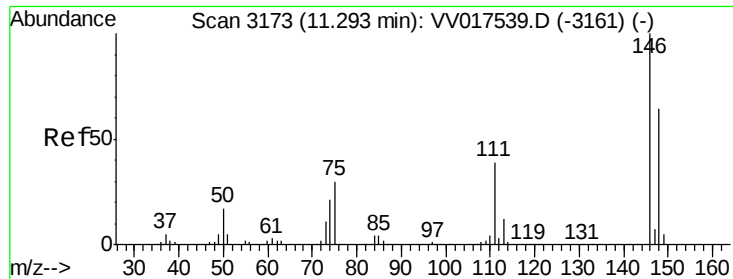
111 36.5 27.6 51.2

148 62.7 45.8 85.0



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 9.970 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV017557.D

Acq: 20 Jul 2020 20:06

Instrument :

MSVOA_V

ClientSampleId :

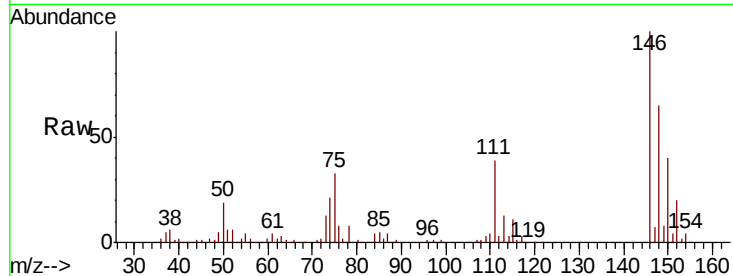
Tot Ion:146 Resp: 54752

Ion Ratio Lower Upper

146 100

111 38.5 27.2 50.4

148 65.3 44.7 82.9

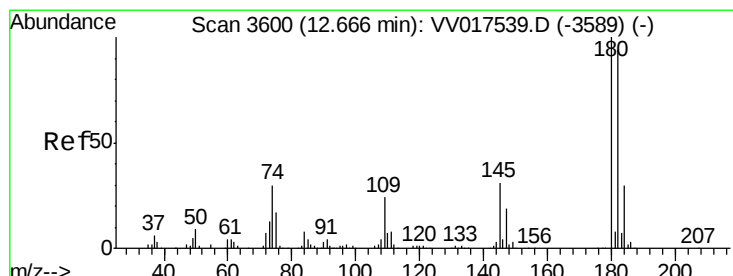
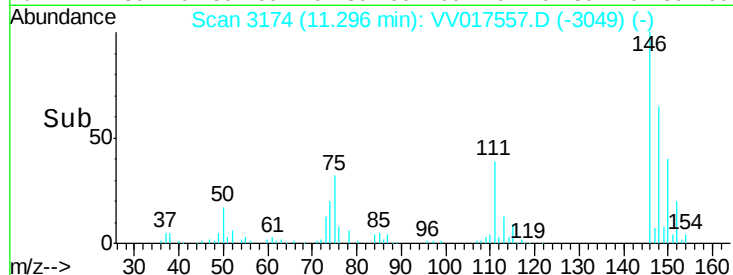
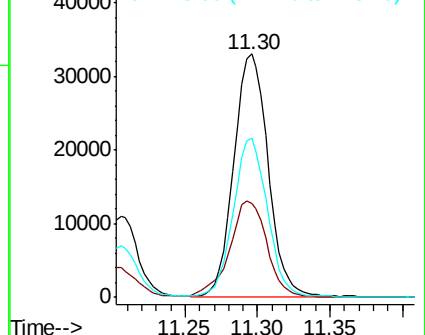


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#67

1,3,5-Trichlorobenzene

Concen: 1.967 ug/L

RT: 13.29 min Scan# 3793

Delta R.T. 0.62 min

Lab File: VV017557.D

Acq: 20 Jul 2020 20:06

Tgt Ion:180 Resp: 8295

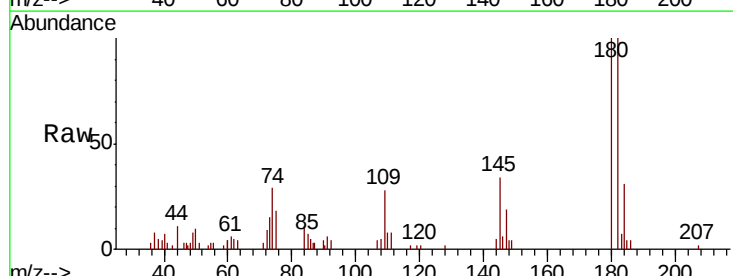
Ion Ratio Lower Upper

180 100

182 96.0 76.0 114.0

184 30.8 24.4 36.6

145 30.9 24.2 36.4



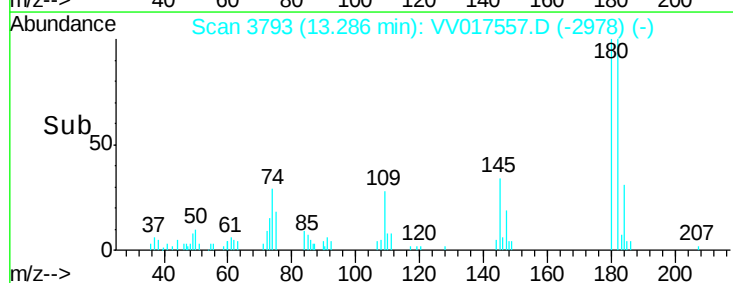
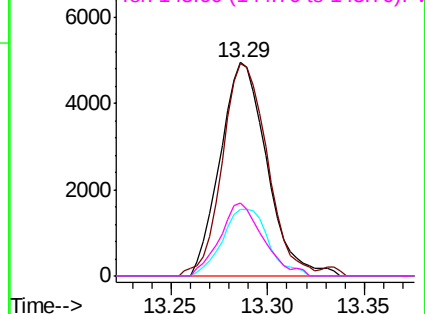
Abundance

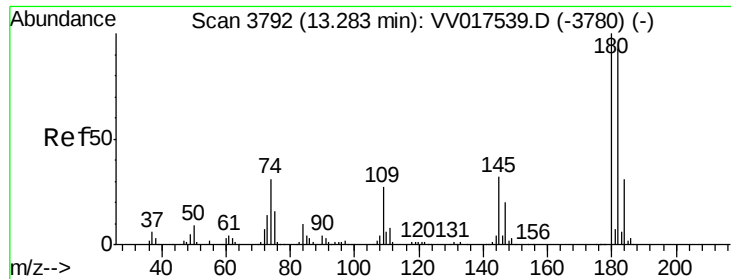
Ion 180.00 (179.70 to 180.70): V

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

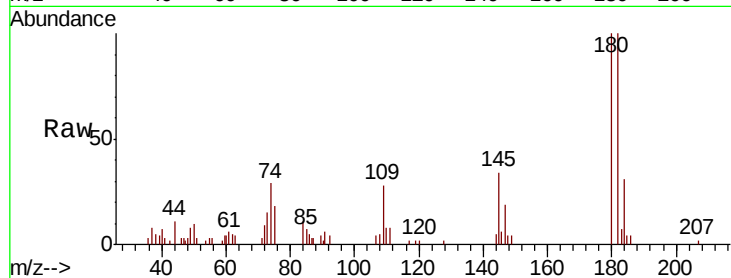




#68
 1,2,4-trichlorobenzene
 Concen: 2.189 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV017557.D
 Acq: 20 Jul 2020 20:06

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.0	114.0
145	30.9	24.9	37.3



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

