

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062320\
 Data File : VV017061.D
 Acq On : 23 Jun 2020 18:09
 Operator : SY/MD
 Sample : L3093-01
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 ETTN0

Quant Time: Jun 24 05:06:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jun 24 05:01:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	181314	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	175326	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	84137	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	64523	5.93	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	118.60%
7) Chloroethane-d5	1.58	69	34742	4.39	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.80%
11) 1,1-Dichloroethene-d2	2.13	63	97691	4.72	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	94.40%
20) 2-Butanone-d5	3.94	46	132229	47.68	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	95.36%
24) Chloroform-d	4.38	84	107038	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
26) 1,2-Dichloroethane-d4	5.06	65	56097	4.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.00%
32) Benzene-d6	5.07	84	202899	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.20%
36) 1,2-Dichloropropane-d6	6.09	67	62089	4.56	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.20%
41) Toluene-d8	7.34	98	184902	4.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.60%
45) trans-1,3-Dichloropropene-	7.64	79	24160	4.26	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.20%
48) 2-Hexanone-d5	8.11	63	86395	39.98	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	79.96%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	42785	4.73	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.60%
65) 1,2-Dichlorobenzene-d4	11.65	152	74117	4.77	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.40%

Target Compounds

					Ovalue
3) Chloromethane	1.32	50	22159	1.807	ug/L # 46
5) Vinyl chloride	1.32	62	2968348	249.489	ug/L 99
8) Chloroethane	1.32	64	954964	145.235	ug/L # 42
12) 1,1-Dichloroethene	2.14	96	59535	6.842	ug/L # 81
14) Carbon disulfide	2.31	76	2166	0.083	ug/L # 79
18) trans-1,2-Dichloroethene	2.78	96	42072	4.563	ug/L 95
19) 1,1-Dichloroethane	3.21	63	57817	2.791	ug/L 98
22) cis-1,2-Dichloroethene	3.94	96	9878568	783.401	ug/L # 96
25) Chloroform	4.40	83	2595	0.115	ug/L 84
33) Benzene	5.13	78	139604	3.040	ug/L 100
34) Trichloroethene	5.94	95	2486384	184.937	ug/L 99
35) Methylcyclohexane	6.10	83	16361	0.783	ug/L # 18
37) 1,2-Dichloropropane	6.09	63	7965	0.701	ug/L # 84
42) Toluene	7.41	91	6313	0.118	ug/L 86
46) trans-1,3-Dichloropropene	7.65	75	1492	0.102	ug/L # 53
50) 2-Hexanone	8.17	43	8611	1.844	ug/L # 85
53) Chlorobenzene	8.90	112	35609	1.070	ug/L 98

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jun 24 05:01:54 2020
Response via : Initial Calibration

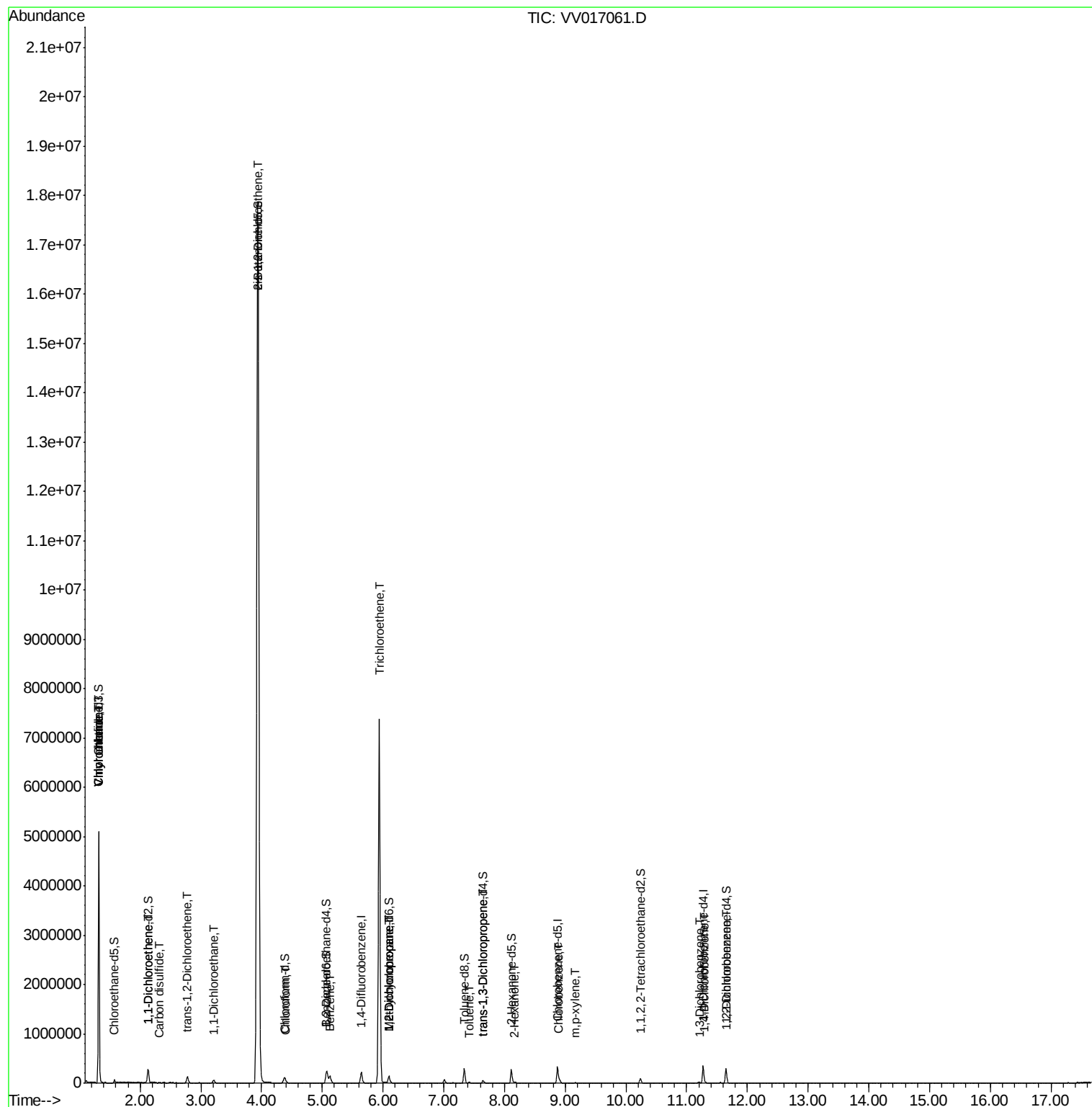
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) m,p-xylene	9.16	106	1619	0.072	ug/L	90
63) 1,3-Dichlorobenzene	11.21	146	8310	0.328	ug/L	91
64) 1,4-Dichlorobenzene	11.30	146	10953	0.425	ug/L	92
66) 1,2-Dichlorobenzene	11.67	146	9704	0.422	ug/L	86

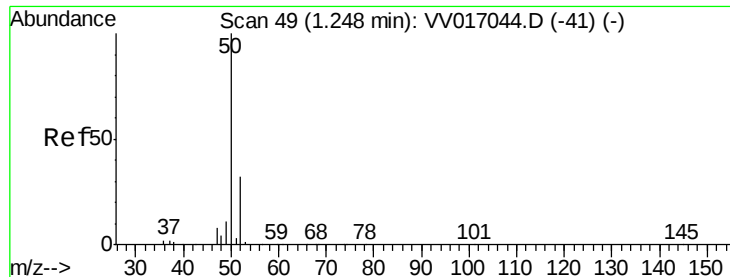
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 1.807 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.07 min

Lab File: VV017061.D

Acq: 23 Jun 2020 18:09

Instrument :

MSVOA_V

ClientSampleId :

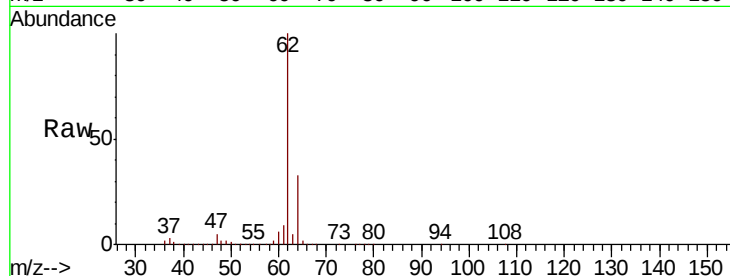
ETTNO

Tot Ion: 50 Resp: 22159

Ion Ratio Lower Upper

50 100

52 2.0 22.5 41.9#



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0

25000

20000

15000

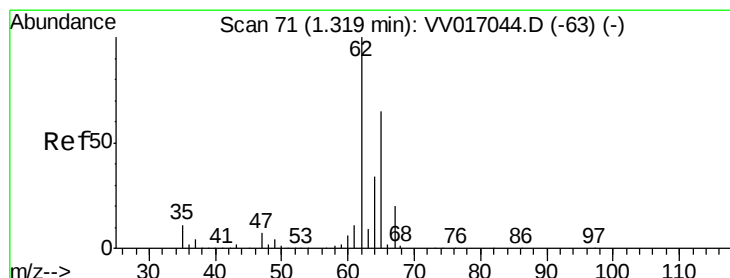
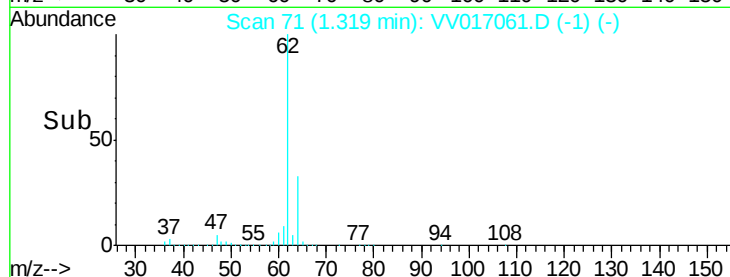
10000

5000

0

1.30 1.32 1.35

Time-->



#5

Vinyl chloride

Concen: 249.489 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV017061.D

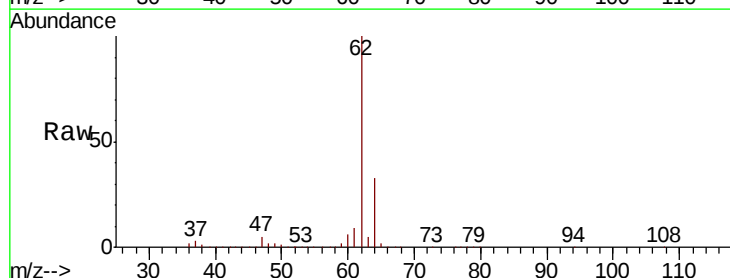
Acq: 23 Jun 2020 18:09

Tgt Ion: 62 Resp: 2968348

Ion Ratio Lower Upper

62 100

64 32.5 22.5 41.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

3000000

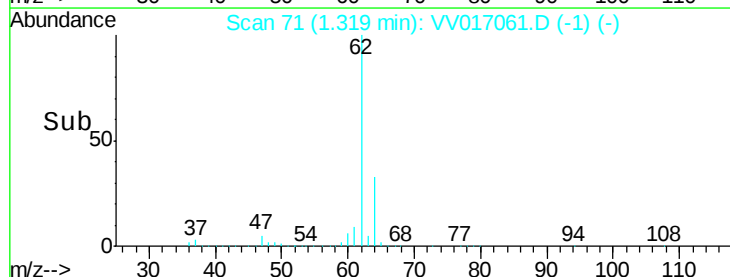
2000000

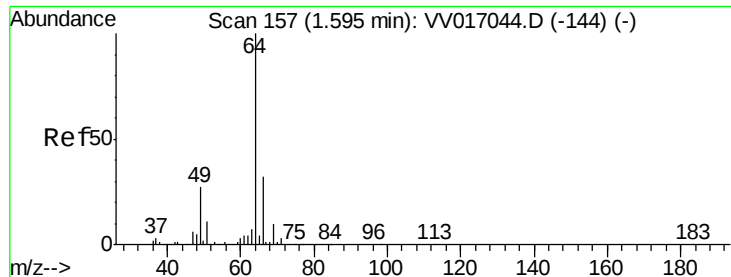
1000000

0

1.25 1.30 1.32 1.35 1.40

Time-->





#8

Chloroethane

Concen: 145.235 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.28 min

Lab File: VV017061.D

Acq: 23 Jun 2020 18:09

Instrument :

MSVOA_V

ClientSampleId :

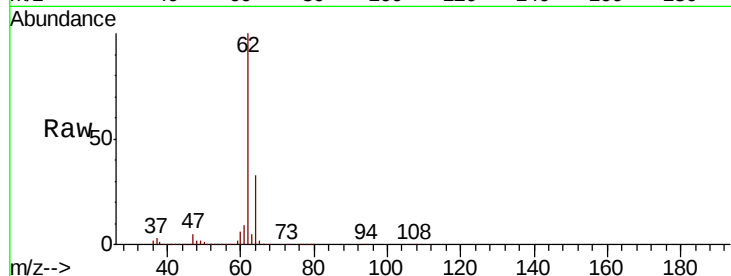
ETTN0

Tot Ion: 64 Resp: 954964

Ion Ratio Lower Upper

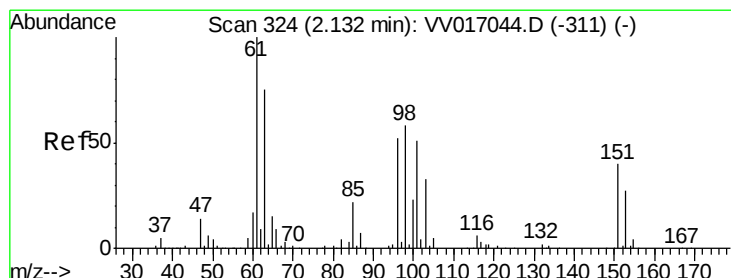
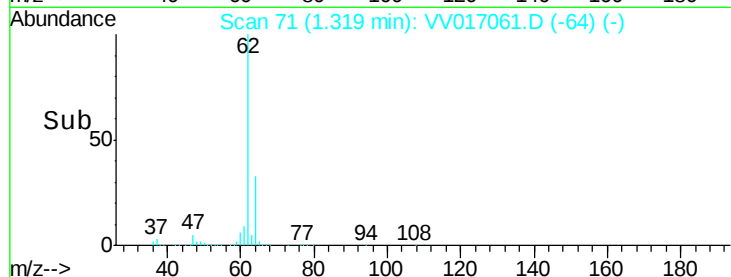
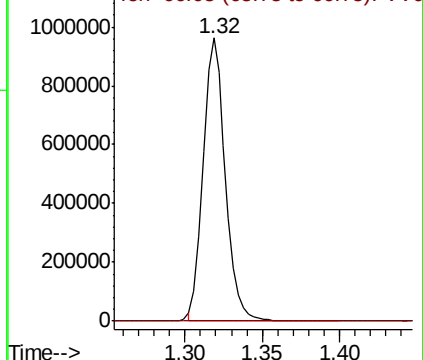
64 100

66 0.1 22.8 42.4#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0



#12

1,1-Dichloroethene

Concen: 6.842 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV017061.D

Acq: 23 Jun 2020 18:09

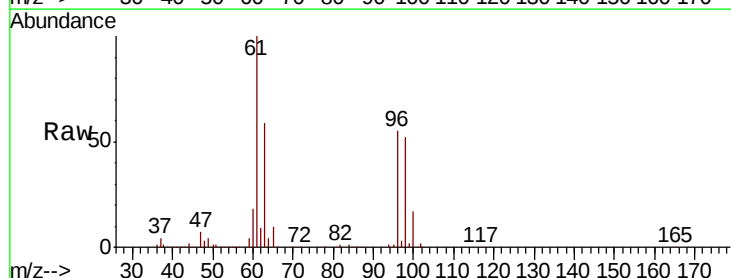
Tgt Ion: 96 Resp: 59535

Ion Ratio Lower Upper

96 100

61 181.3 125.0 232.2

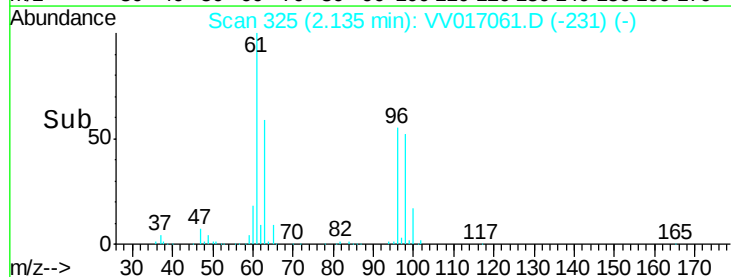
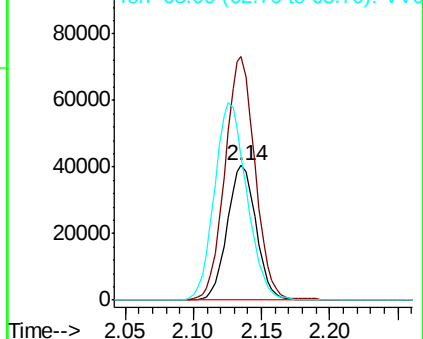
63 107.1 109.8 203.8#

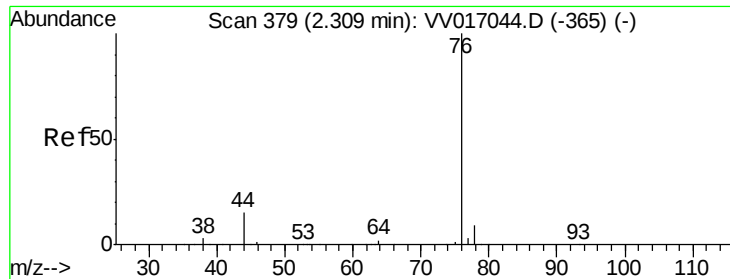


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#14

Carbon disulfide

Concen: 0.083 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV017061.D

Acq: 23 Jun 2020 18:09

Instrument :

MSVOA_V

ClientSampled :

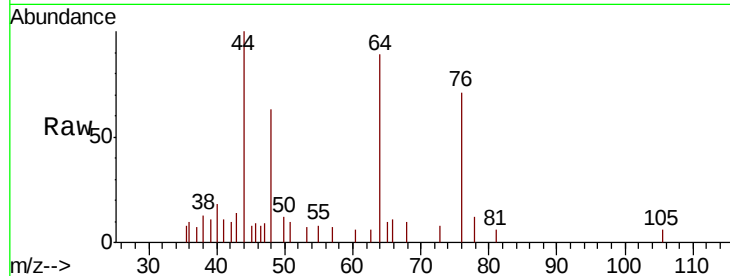
ETTNO

Tot Ion: 76 Resp: 2166

Ion Ratio Lower Upper

76 100

78 17.4 7.7 11.5#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

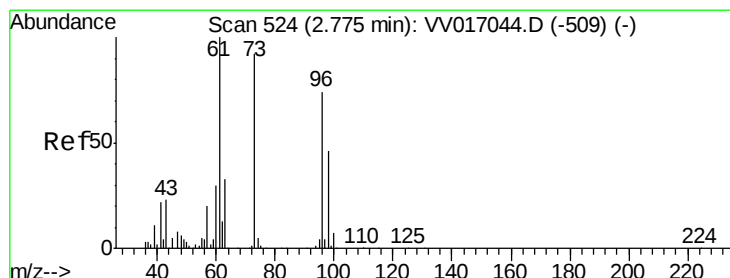
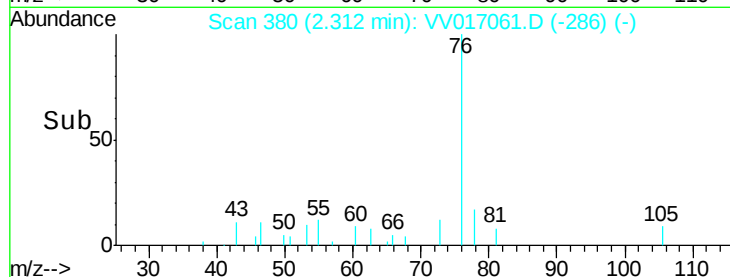
2.31

1000

500

0

Time-->



#18

trans-1,2-Dichloroethene

Concen: 4.563 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV017061.D

Acq: 23 Jun 2020 18:09

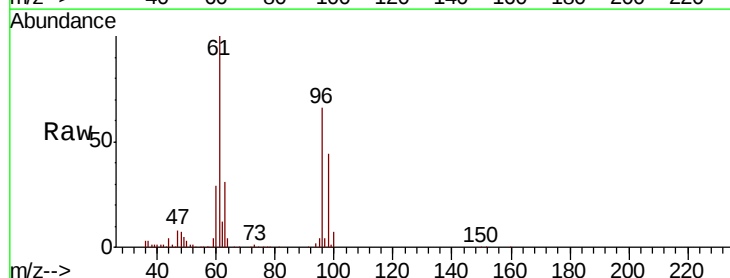
Tgt Ion: 96 Resp: 42072

Ion Ratio Lower Upper

96 100

61 152.1 102.3 189.9

98 66.8 44.7 82.9



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0

50000

40000

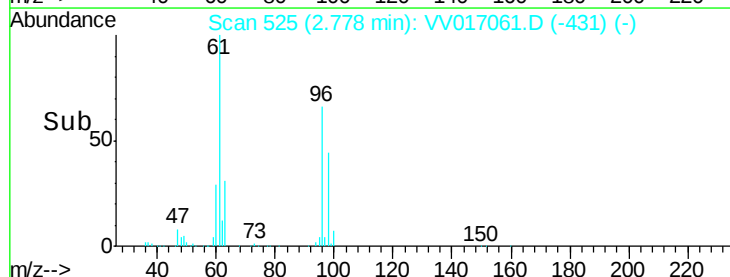
30000

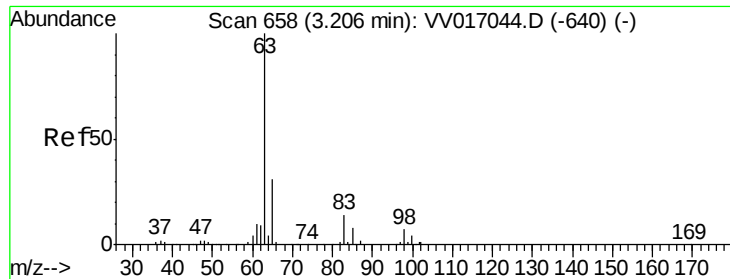
20000

10000

0

Time-->





#19

1,1-Dichloroethane

Concen: 2.791 ug/L

RT: 3.21 min Scan# 659

Delta R.T. 0.00 min

Lab File: VV017061.D

Acq: 23 Jun 2020 18:09

Instrument :

MSVOA_V

ClientSampleId :

ETTNO

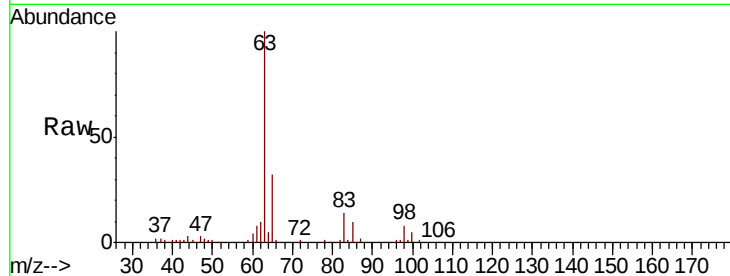
Tot Ion: 63 Resp: 57817

Ion Ratio Lower Upper

63 100

65 32.0 21.8 40.4

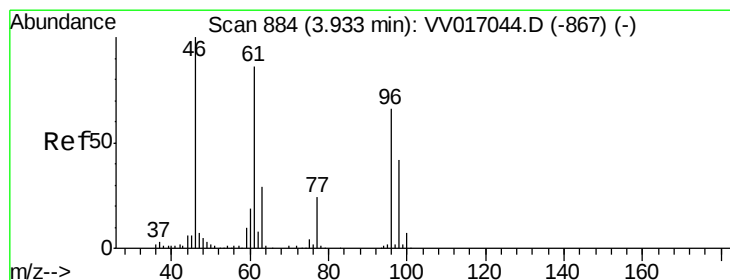
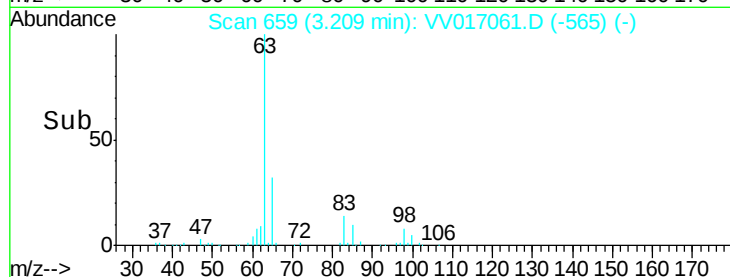
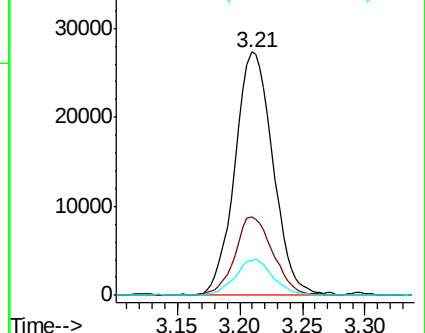
83 14.5 9.7 17.9



Abundance Ion 63.10 (62.80 to 63.80): VV017044.D (-640) (-)

Ion 65.10 (64.80 to 65.80): VV017044.D (-640) (-)

Ion 83.05 (82.75 to 83.75): VV017044.D (-640) (-)



#22

cis-1,2-Dichloroethene

Concen: 783.401 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.01 min

Lab File: VV017061.D

Acq: 23 Jun 2020 18:09

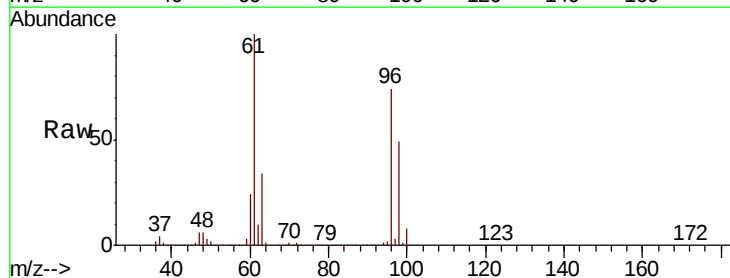
Tgt Ion: 96 Resp: 9878568

Ion Ratio Lower Upper

96 100

61 134.9 91.0 169.0

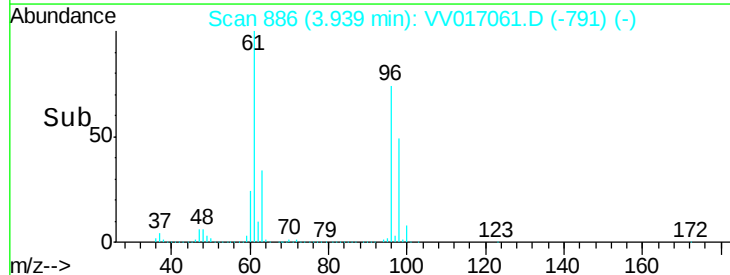
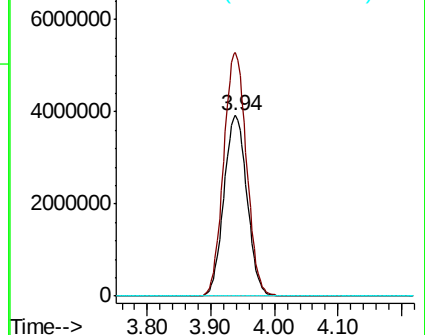
68 0.0 0.0 0.0#

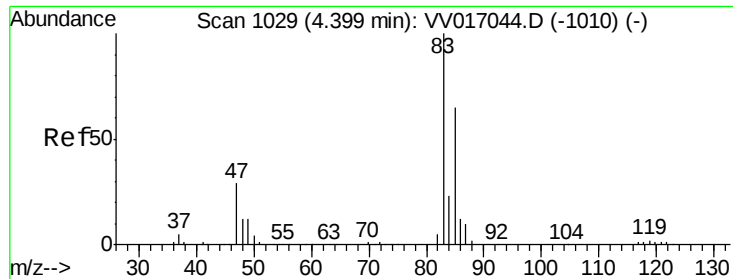


Abundance Ion 96.00 (95.70 to 96.70): VV017044.D (-867) (-)

Ion 61.05 (60.75 to 61.75): VV017044.D (-867) (-)

Ion 68.15 (67.85 to 68.85): VV017044.D (-867) (-)





#25

Chloroform

Concen: 0.115 ug/L

RT: 4.40 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VV017061.D

Acq: 23 Jun 2020 18:09

Instrument :

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ClientSampleId :

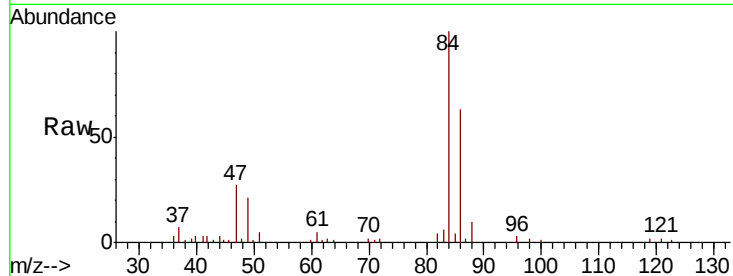
ETTNO

Tot Ion: 83 Resp: 2595

Ion Ratio Lower Upper

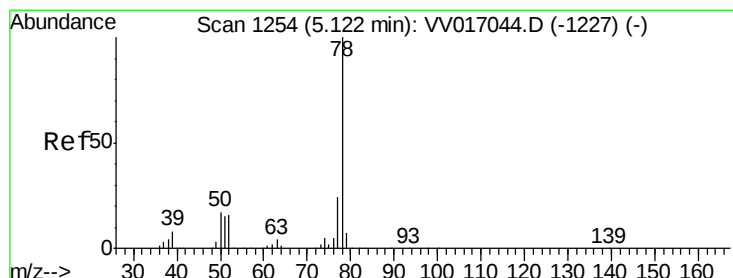
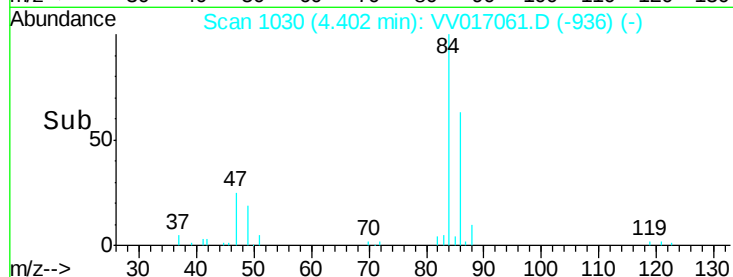
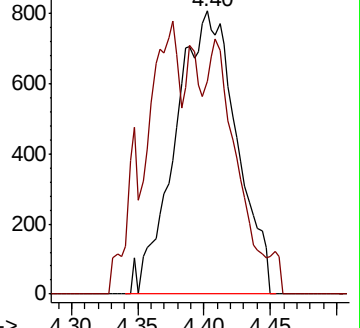
83 100

85 75.4 44.2 82.2



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0



#33

Benzene

Concen: 3.040 ug/L

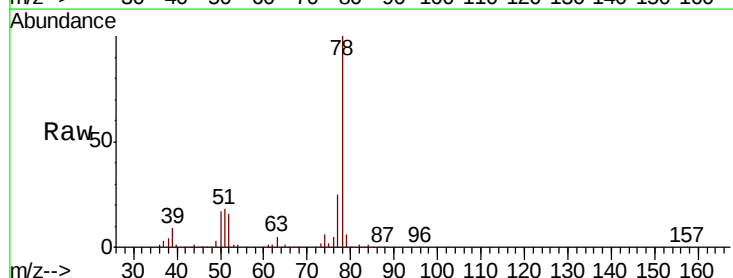
RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

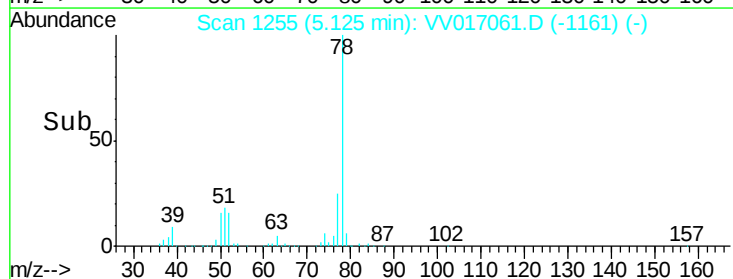
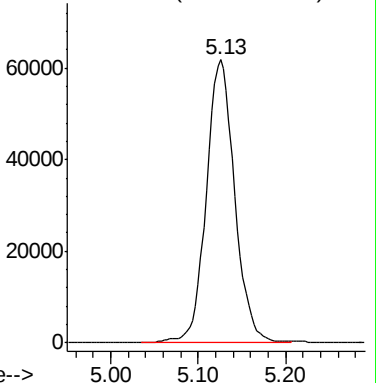
Lab File: VV017061.D

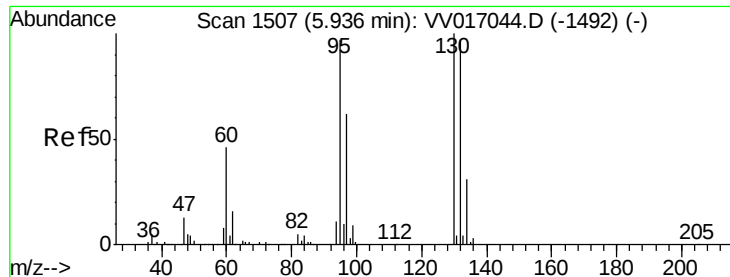
Acq: 23 Jun 2020 18:09

Tgt Ion: 78 Resp: 139604



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 184.937 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV017061.D

Acq: 23 Jun 2020 18:09

Instrument :

MSVOA_V

ClientSampleId :

ETTNO

Tot Ion: 95 Resp: 2486384

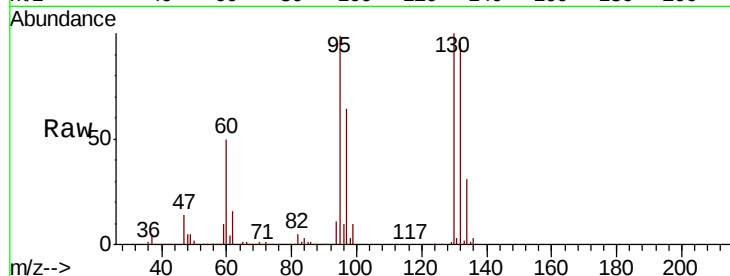
Ion Ratio Lower Upper

95 100

97 64.2 45.3 84.1

132 96.9 68.8 127.8

130 101.0 70.2 130.4

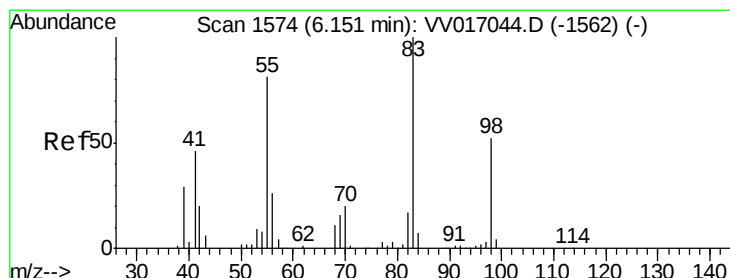
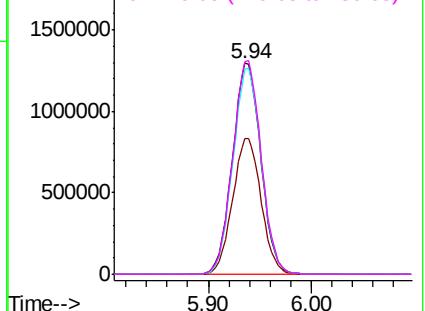
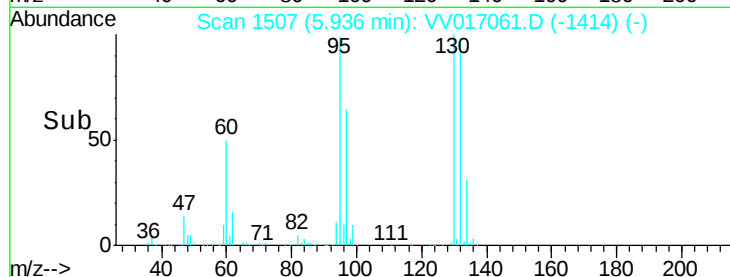


Abundance Ion 95.00 (94.70 to 95.70): VV017061.D (-1414) (-)

Ion 96.95 (96.65 to 97.65): VV017061.D (-1414) (-)

Ion 131.95 (131.65 to 132.65): VV017061.D (-1414) (-)

Ion 129.95 (129.65 to 130.65): VV017061.D (-1414) (-)



#35

Methylcyclohexane

Concen: 0.783 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.05 min

Lab File: VV017061.D

Acq: 23 Jun 2020 18:09

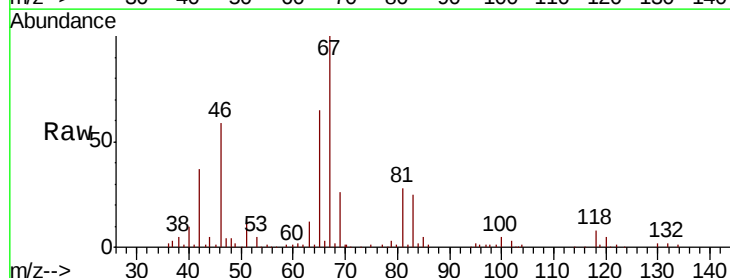
Tgt Ion: 83 Resp: 16361

Ion Ratio Lower Upper

83 100

55 1.2 63.6 95.4#

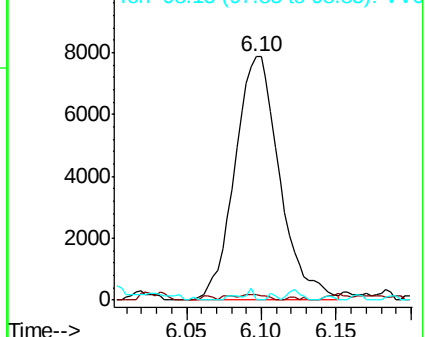
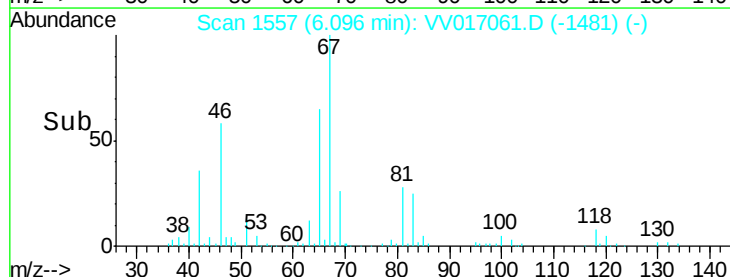
98 0.0 38.8 58.2#

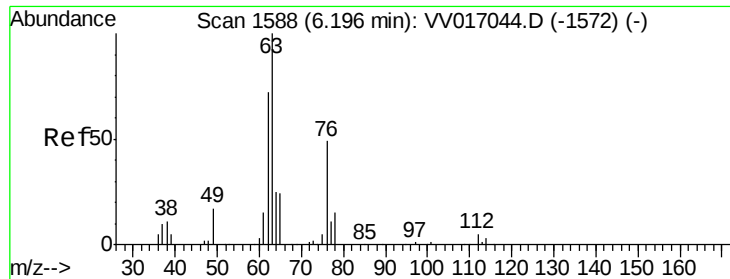


Abundance Ion 83.15 (82.85 to 83.85): VV017061.D (-1481) (-)

Ion 55.10 (54.80 to 55.80): VV017061.D (-1481) (-)

Ion 98.15 (97.85 to 98.85): VV017061.D (-1481) (-)

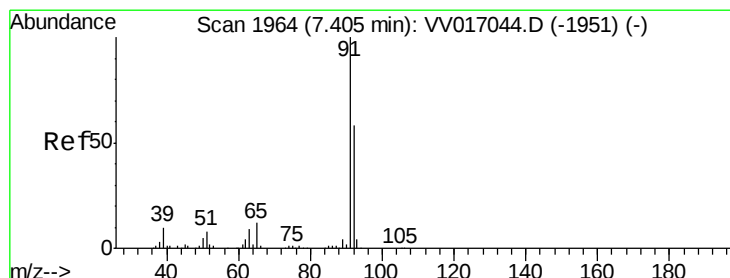
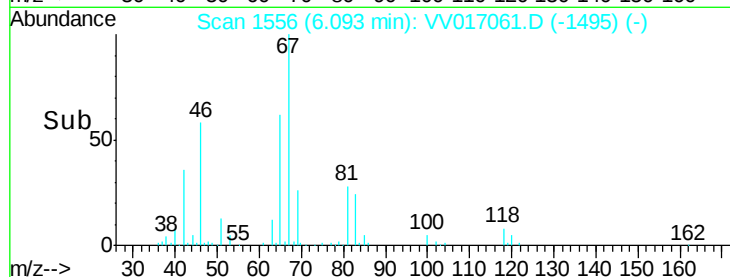
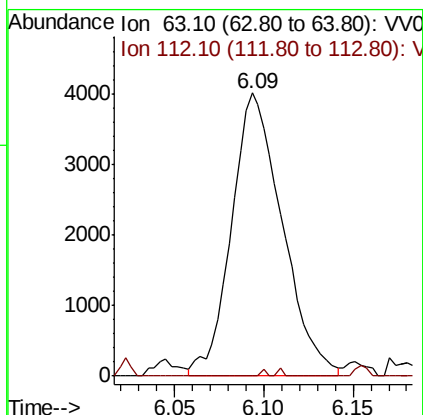
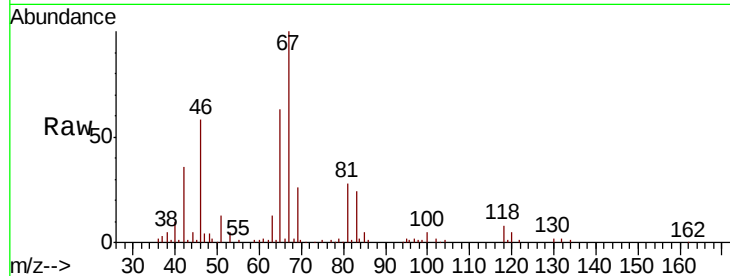




#37
 1,2-Dichloropropane
 Concen: 0.701 ug/L
 RT: 6.09 min Scan# 1556
 Delta R.T. -0.10 min
 Lab File: VV017061.D
 Acq: 23 Jun 2020 18:09

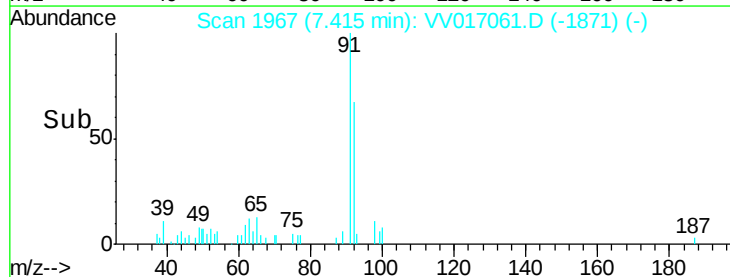
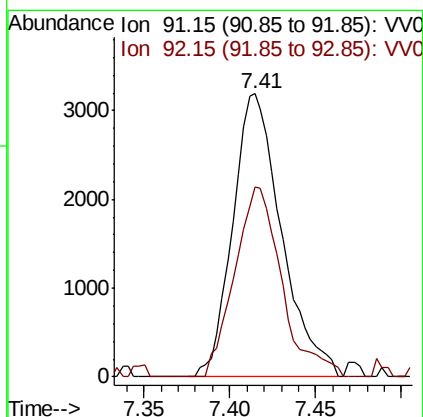
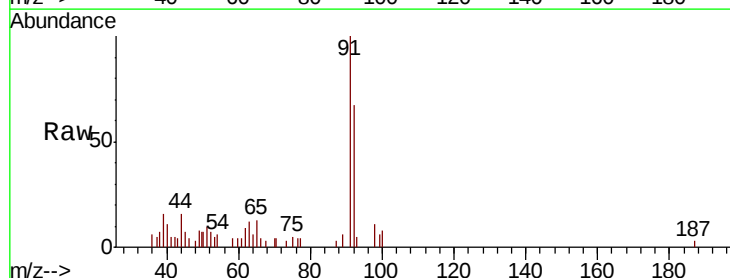
Instrument :
 MSVOA_V
 ClientSampleId :
 ETTN0

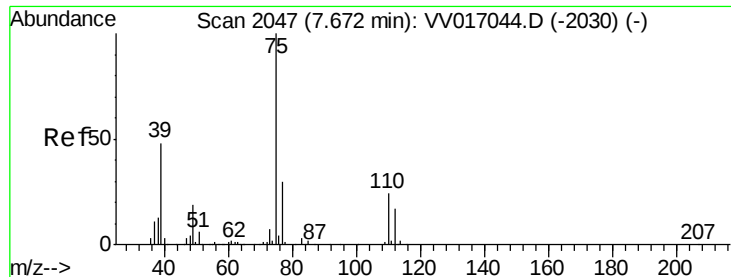
Tot Ion: 63 Resp: 7965
 Ion Ratio Lower Upper
 63 100
 112 0.3 4.4 6.6#



#42
 Toluene
 Concen: 0.118 ug/L
 RT: 7.41 min Scan# 1967
 Delta R.T. 0.01 min
 Lab File: VV017061.D
 Acq: 23 Jun 2020 18:09

Tgt Ion: 91 Resp: 6313
 Ion Ratio Lower Upper
 91 100
 92 67.0 39.9 74.1





#46

trans-1,3-Dichloropropene

Concen: 0.102 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.03 min

Lab File: VV017061.D

Acq: 23 Jun 2020 18:09

Instrument :

MSVOA_V

ClientSampleId :

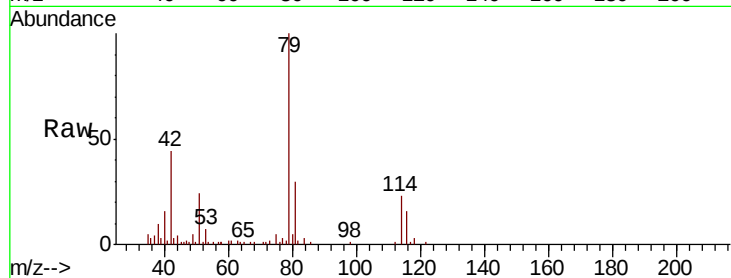
ETTNO

Tot Ion: 75 Resp: 1492

Ion Ratio Lower Upper

75 100

77 58.1 22.3 41.3#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.65

800

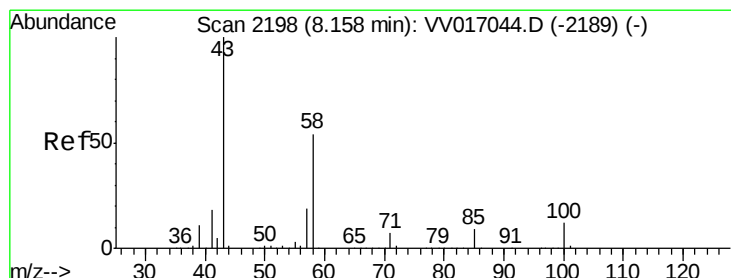
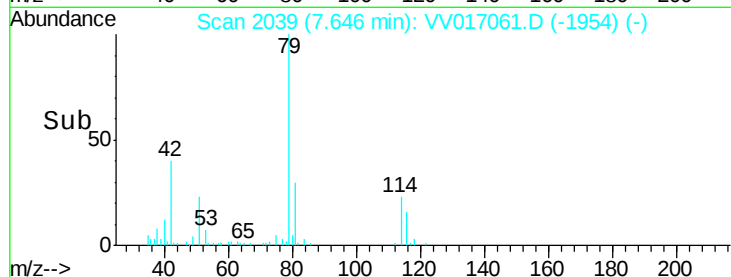
600

400

200

0

Time-->



#50

2-Hexanone

Concen: 1.844 ug/L

RT: 8.17 min Scan# 2202

Delta R.T. 0.01 min

Lab File: VV017061.D

Acq: 23 Jun 2020 18:09

Tgt Ion: 43 Resp: 8611

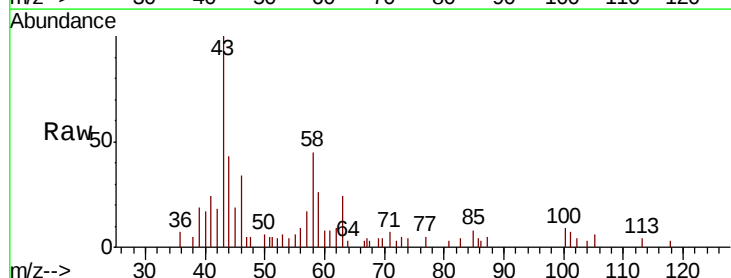
Ion Ratio Lower Upper

43 100

58 43.7 41.6 62.4

57 8.1 15.4 23.0#

100 7.9 10.1 15.1#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0

10000

8000

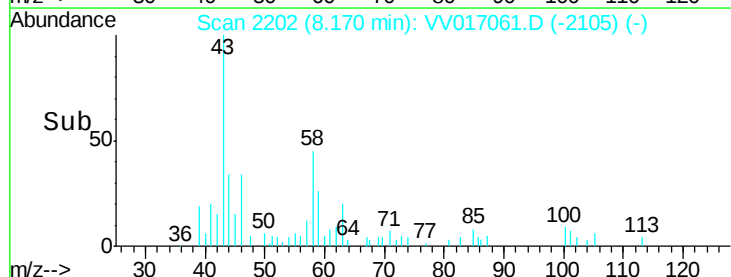
6000

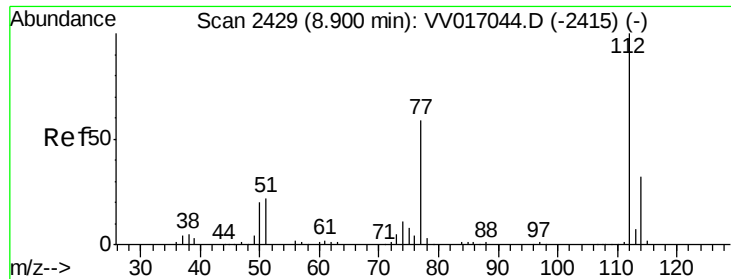
4000

2000

0

Time-->

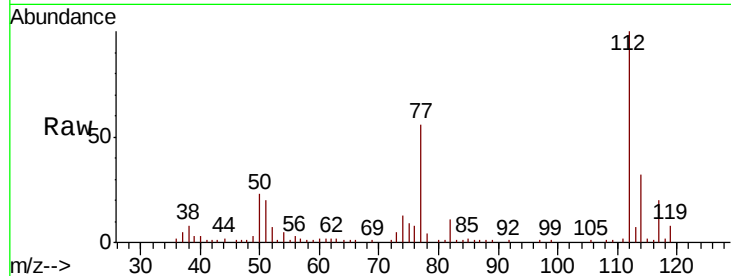




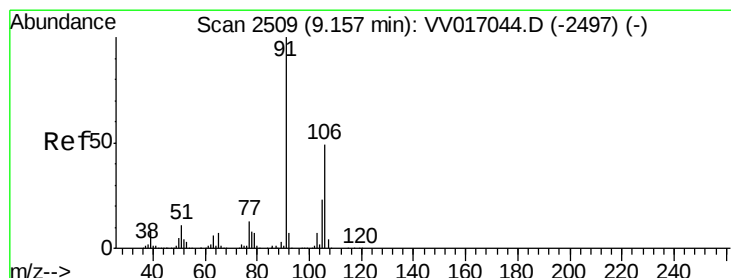
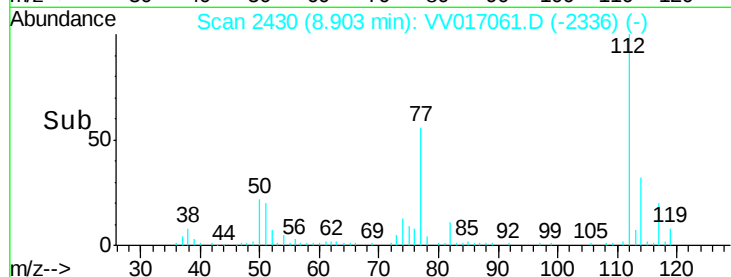
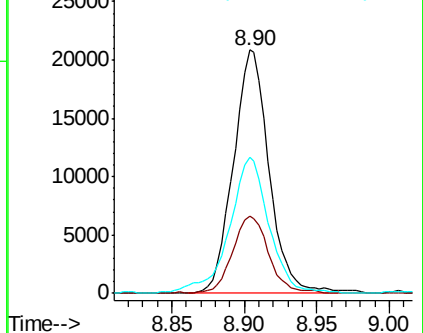
#53
Chlorobenzene
Concen: 1.070 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV017061.D
Acq: 23 Jun 2020 18:09

Instrument :
MSVOA_V
ClientSampled :
ETTNO

Tot Ion:112 Resp: 35609
Ion Ratio Lower Upper
112 100
114 31.8 22.0 41.0
77 55.9 46.0 69.0

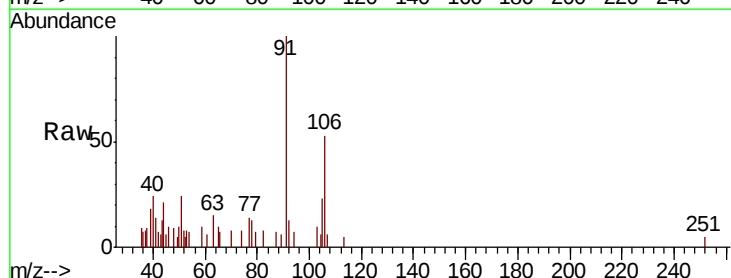


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

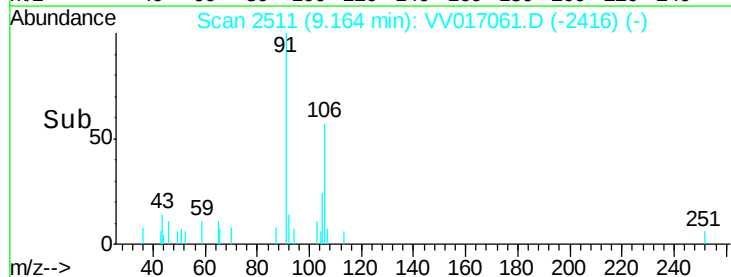
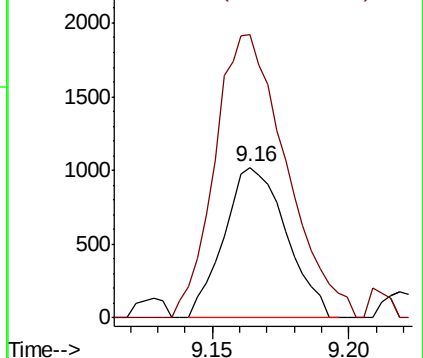


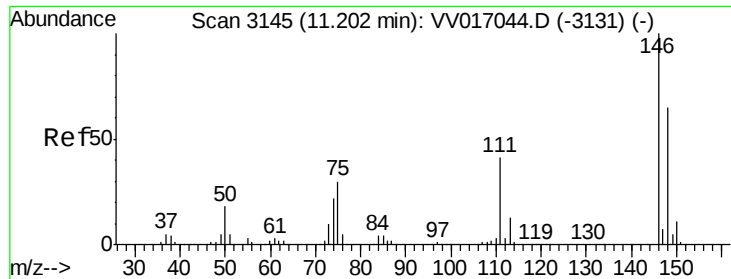
#55
m,p-xylene
Concen: 0.072 ug/L
RT: 9.16 min Scan# 2511
Delta R.T. 0.01 min
Lab File: VV017061.D
Acq: 23 Jun 2020 18:09

Tgt Ion:106 Resp: 1619
Ion Ratio Lower Upper
106 100
91 187.8 142.7 264.9



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): V





#63

1,3-Dichlorobenzene

Concen: 0.328 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV017061.D

Acq: 23 Jun 2020 18:09

Instrument :

MSVOA_V

ClientSampleId :

ETTNO

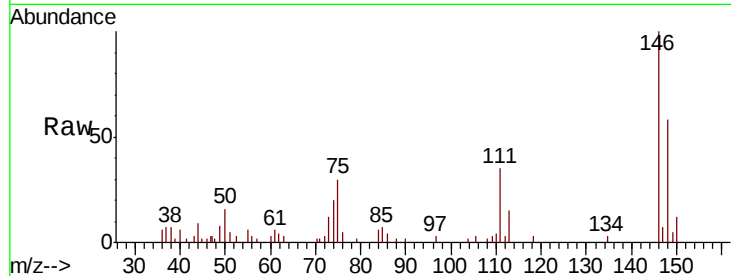
Tot Ion:146 Resp: 8310

Ion Ratio Lower Upper

146 100

111 34.9 29.2 54.2

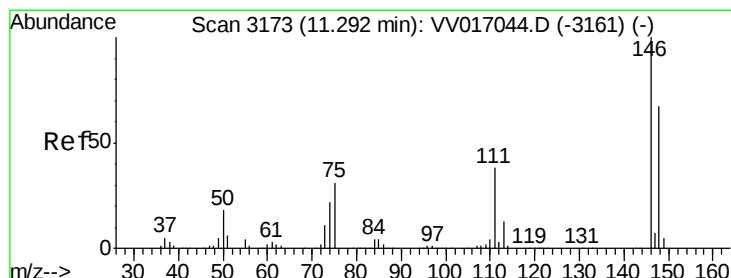
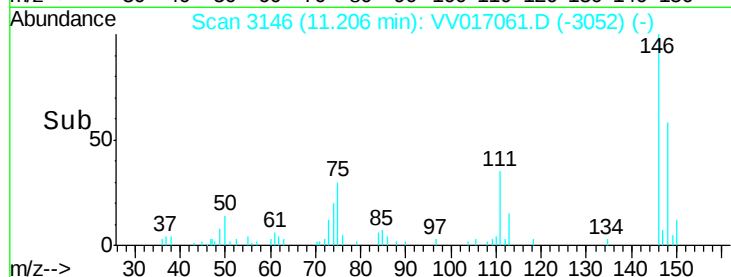
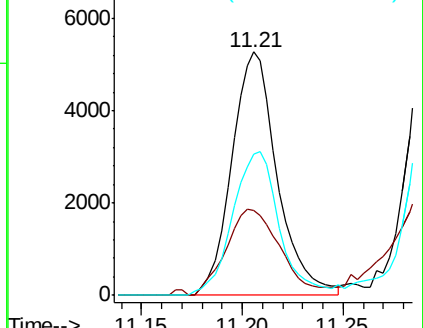
148 57.9 44.9 83.5



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



#64

1,4-Dichlorobenzene

Concen: 0.425 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV017061.D

Acq: 23 Jun 2020 18:09

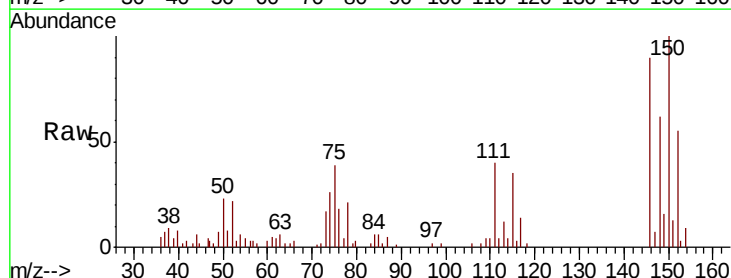
Tgt Ion:146 Resp: 10953

Ion Ratio Lower Upper

146 100

111 44.1 27.4 50.8

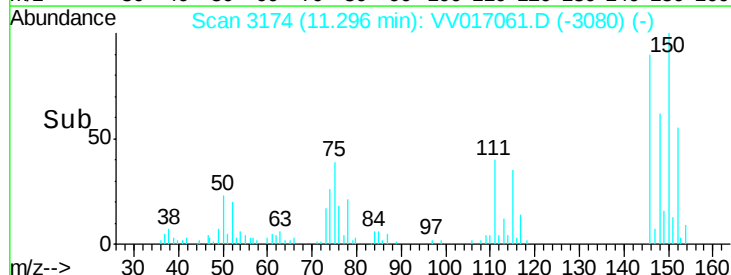
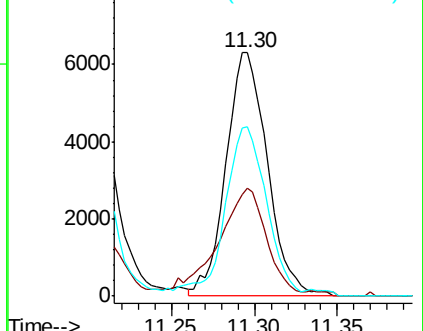
148 69.5 44.3 82.3

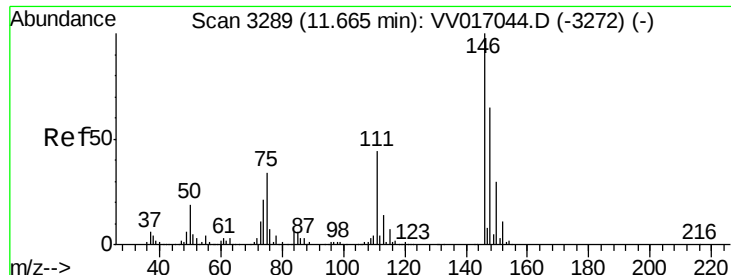


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

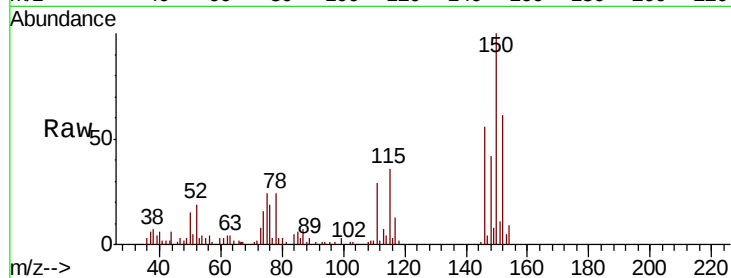




#66
 1,2-Dichlorobenzene
 Concen: 0.422 ug/L
 RT: 11.67 min Scan# 3290
 Delta R.T. 0.00 min
 Lab File: VV017061.D
 Acq: 23 Jun 2020 18:09

Instrument :
 MSVOA_V
 ClientSampleId :
 ETTN0

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.1	34.4	51.6
148	74.5	49.9	74.9



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

