

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100720\
 Data File : VV018750.D
 Acq On : 08 Oct 2020 00:08
 Operator : SY/MD
 Sample : L4239-19 20X
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 08 06:43:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 08 02:46:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	282581	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	270635	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	139791	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	70427	42.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.00%
7) Chloroethane-d5	1.58	69	63188	46.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.22%
11) 1,1-Dichloroethene-d2	2.12	63	118964	35.23	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.46%
21) 2-Butanone-d5	3.91	46	107294	86.79	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	86.79%
24) Chloroform-d	4.38	84	155659	43.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.88%
26) 1,2-Dichloroethane-d4	5.06	65	110210	48.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.88%
32) Benzene-d6	5.07	84	295479	43.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.20%
36) 1,2-Dichloropropane-d6	6.09	67	91830	44.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	88.66%
41) Toluene-d8	7.34	98	265330	41.14	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.28%
43) trans-1,3-Dichloropropene-	7.64	79	46387	41.46	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.92%
47) 2-Hexanone-d5	8.11	63	58654	74.55	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	74.55%
57) 1,1,2,2-Tetrachloroethane-	10.23	84	107223	39.05	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	78.10%
64) 1,2-Dichlorobenzene-d4	11.65	152	115721	43.04	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.08%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1221	0.664	ug/L #	19
12) 1,1-Dichloroethene	2.14	96	2424	1.374	ug/L #	1
19) 1,1-Dichloroethane	3.21	63	10140	2.869	ug/L	92
20) cis-1,2-Dichloroethene	3.94	96	73106	34.079	ug/L	95
29) Cyclohexane	4.70	56	11339	3.674	ug/L	96
30) 1,1,1-Trichloroethane	4.63	97	140663	41.866	ug/L	98
31) Carbon tetrachloride	4.64	117	17526	5.812	ug/L	98
34) Trichloroethene	5.94	95	3021	1.309	ug/L	97
42) Toluene	7.41	91	1355636	157.610	ug/L	99
48) 2-Hexanone	8.17	43	5977	2.910	ug/L #	82
52) Ethylbenzene	9.04	91	47401	4.935	ug/L	98
53) m,p-Xylene	9.16	106	61285	16.509	ug/L	99
54) o-xylene	9.57	106	33204	9.448	ug/L	95
56) Isopropylbenzene	9.95	105	13196	1.400	ug/L	98
59) 1,2,3-Trichloropropane	11.27	75	19681	7.932	ug/L	94
63) 1,4-Dichlorobenzene	11.30	146	5104	1.096	ug/L	98
69) Naphthalene	13.53	128	32970	3.950	ug/L	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100720\
Data File : VV018750.D
Acq On : 08 Oct 2020 00:08
Operator : SY/MD
Sample : L4239-19 20X
Misc : 5.0mL/MSVOA V/WATER
ALS Vial : 43 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :

Quant Time: Oct 08 06:43:09 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Oct 08 02:46:20 2020
Response via : Initial Calibration

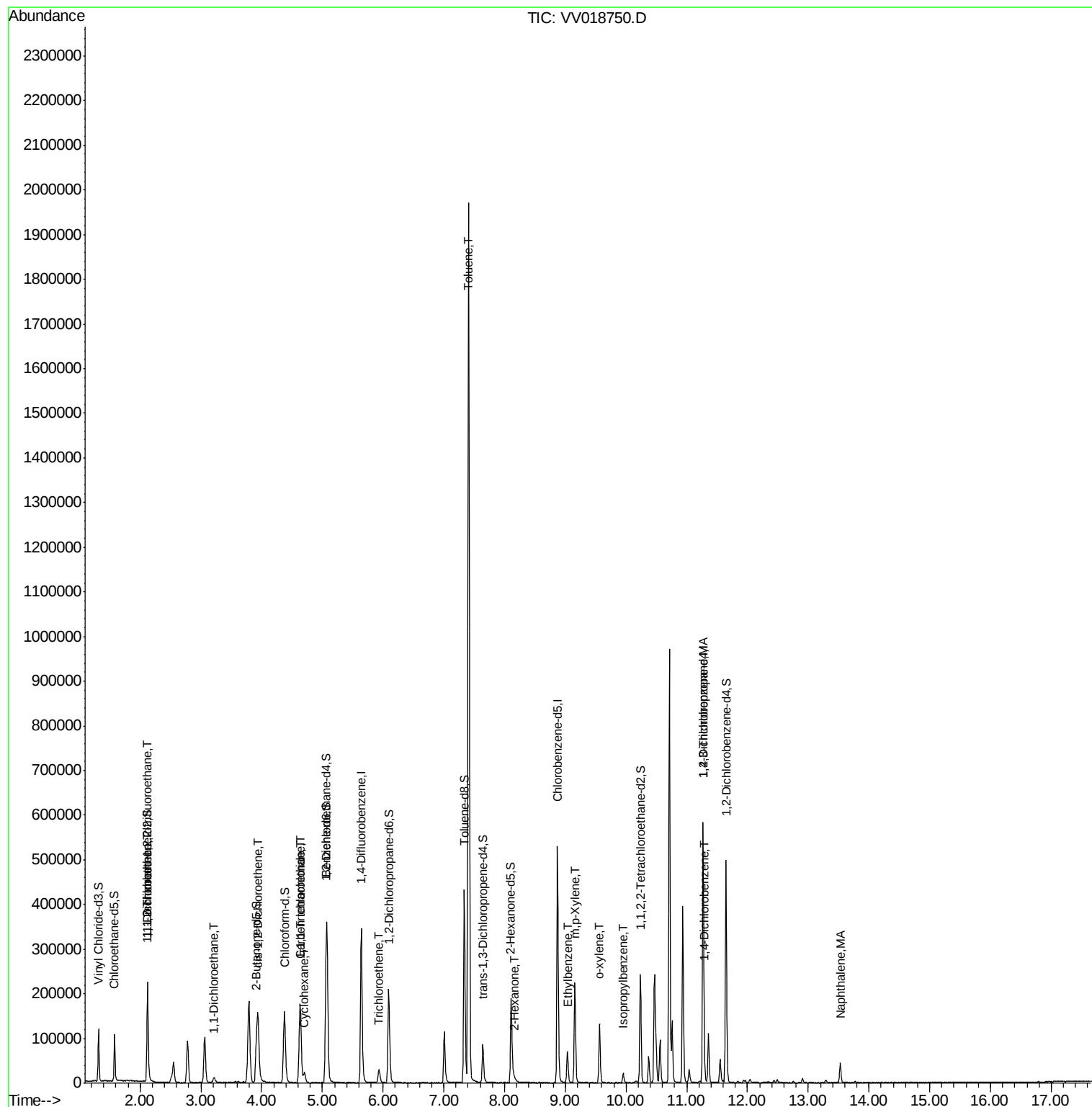
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

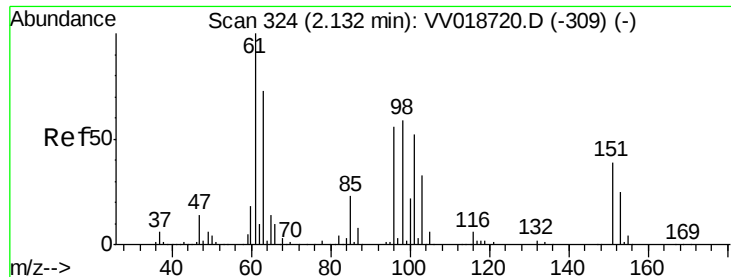
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100720\
Data File : VV018750.D
Acq On : 08 Oct 2020 00:08
Operator : SY/MD
Sample : L4239-19 20X
Misc : 5.0mL/MSVOA V/WATER
ALS Vial : 43 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :

Quant Time: Oct 08 06:43:09 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Oct 08 02:46:20 2020
Response via : Initial Calibration





#10

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

Concen: 0.664 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV018750.D

Acq: 08 Oct 2020 00:08

Instrument :

MSVOA_V

ClientSampled :

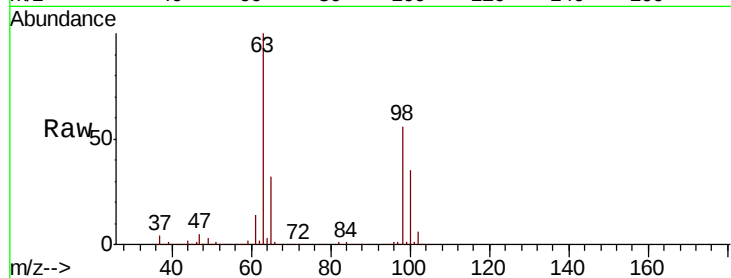
Tot Ion:101 Resp: 1221

Ion Ratio Lower Upper

101 100

85 3.4 34.6 52.0#

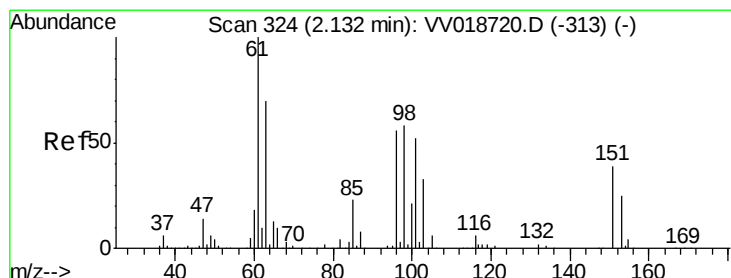
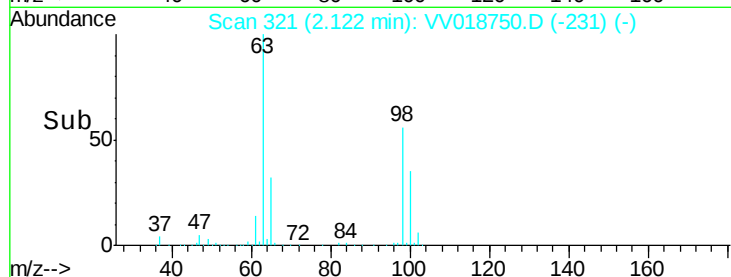
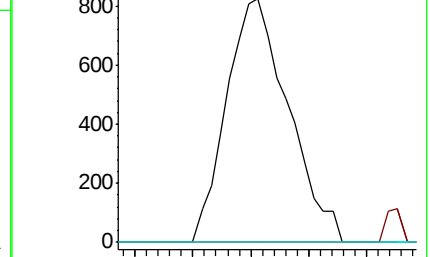
151 0.0 64.3 96.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 1.374 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV018750.D

Acq: 08 Oct 2020 00:08

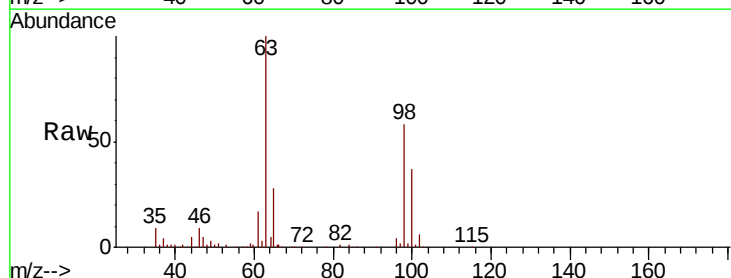
Tgt Ion: 96 Resp: 2424

Ion Ratio Lower Upper

96 100

61 416.3 122.8 228.1#

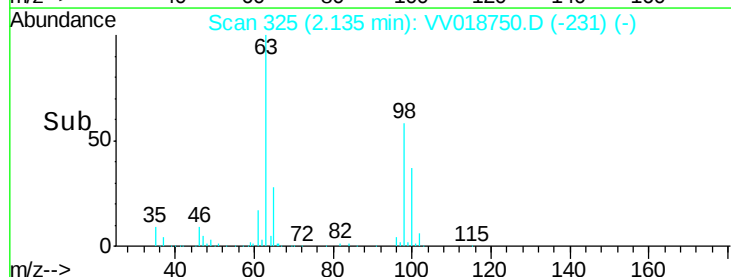
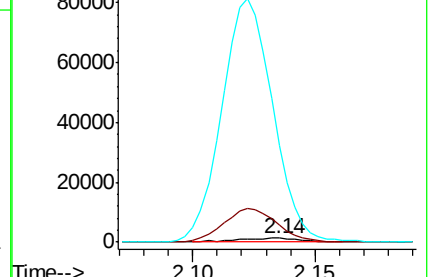
63 2410.2 91.9 170.7#

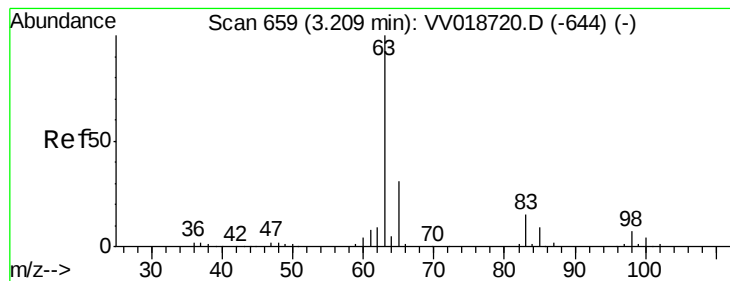


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#19

1,1-Dichloroethane

Concen: 2.869 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV018750.D

Acq: 08 Oct 2020 00:08

Instrument :

MSVOA_V

ClientSampleId :

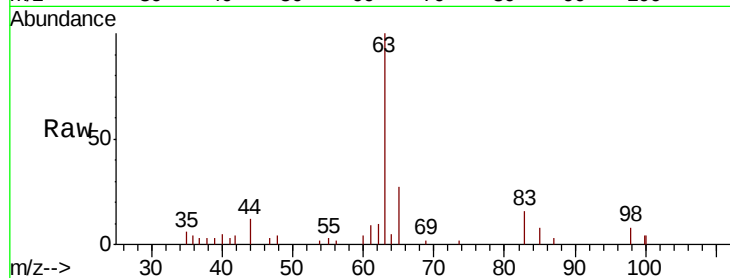
Tot Ion: 63 Resp: 10140

Ion Ratio Lower Upper

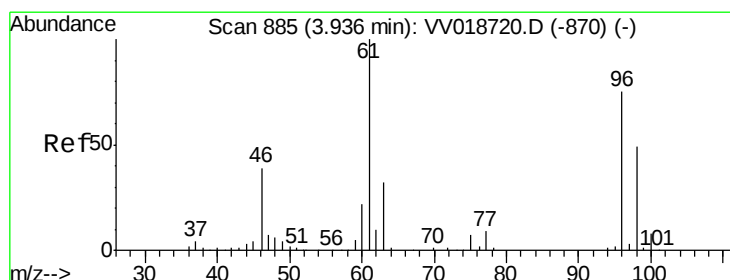
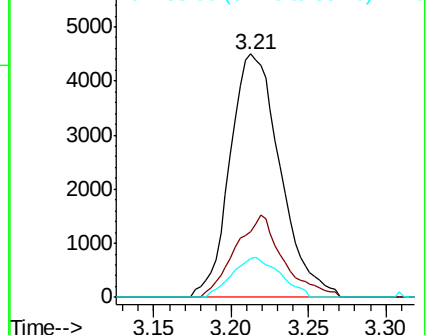
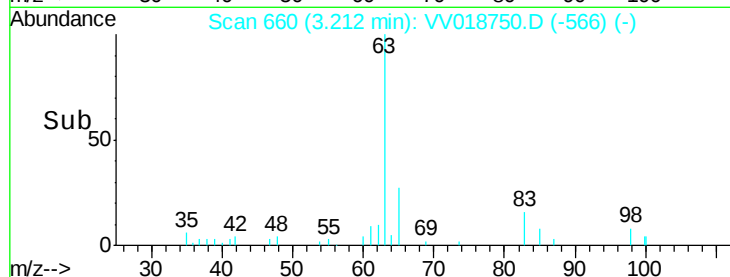
63 100

65 26.7 22.3 41.3

83 15.9 9.3 17.3



Abundance Ion 63.00 (62.70 to 63.70): VV018750.D (-566) (-)



#20

cis-1,2-Dichloroethene

Concen: 34.079 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV018750.D

Acq: 08 Oct 2020 00:08

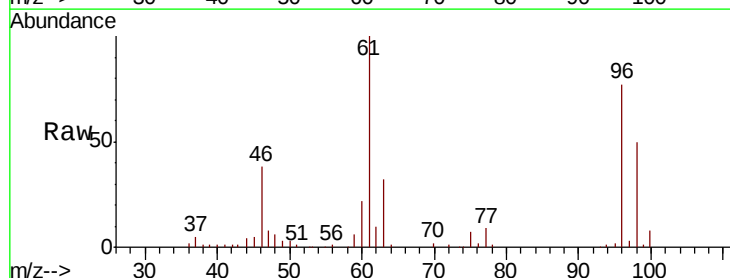
Tgt Ion: 96 Resp: 73106

Ion Ratio Lower Upper

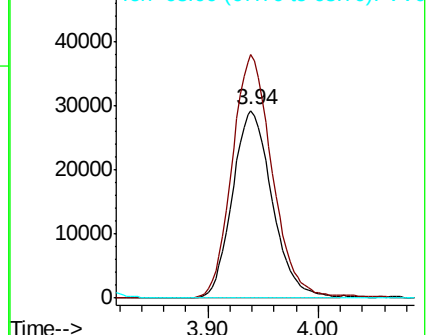
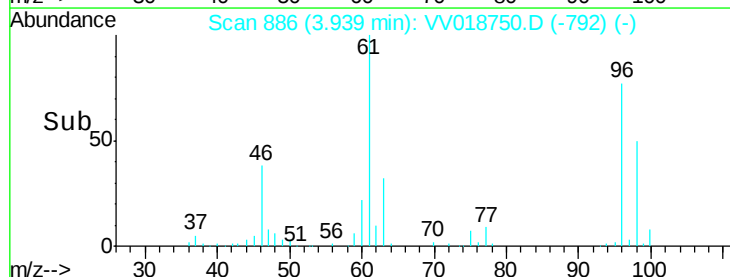
96 100

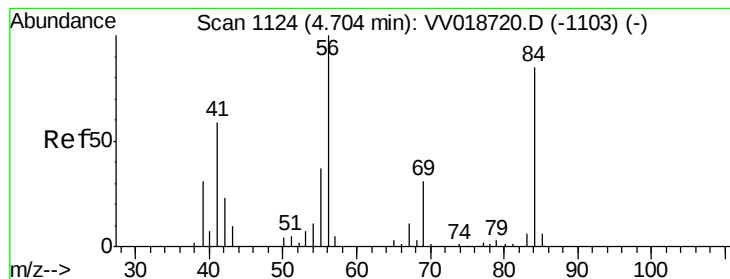
61 129.6 86.8 161.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV018750.D (-792) (-)





#29

Cyclohexane

Concen: 3.674 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. -0.00 min

Lab File: VV018750.D

Acq: 08 Oct 2020 00:08

Instrument :
MSVOA_V
ClientSampleId :

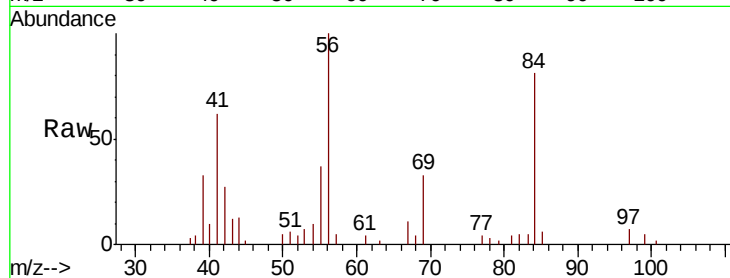
Tot Ion: 56 Resp: 11339

Ion Ratio Lower Upper

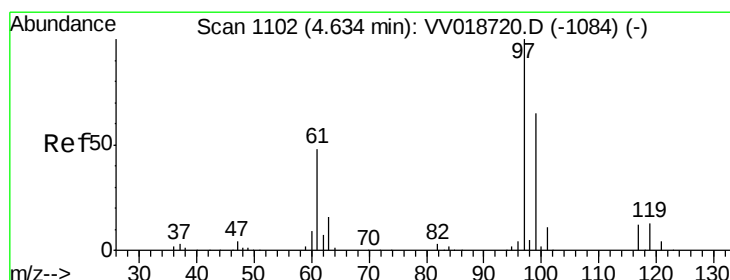
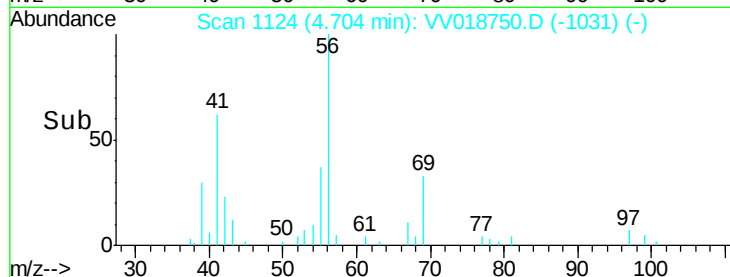
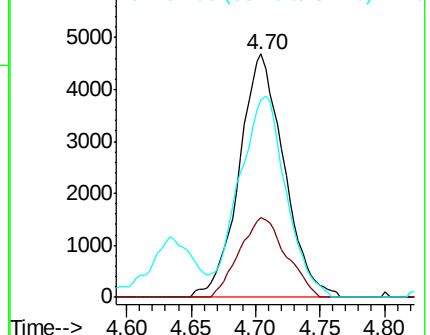
56 100

69 34.0 24.8 37.2

84 86.4 72.2 108.4



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 41.866 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VV018750.D

Acq: 08 Oct 2020 00:08

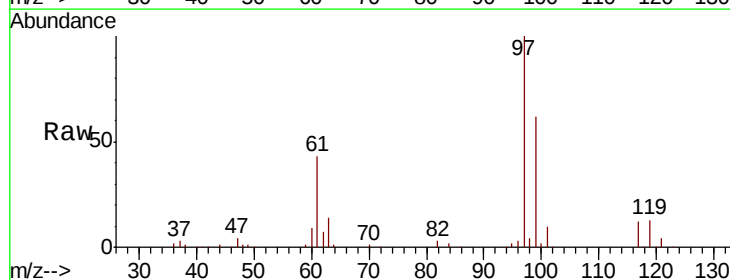
Tgt Ion: 97 Resp: 140663

Ion Ratio Lower Upper

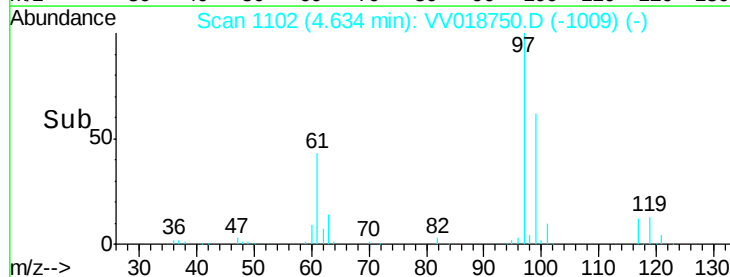
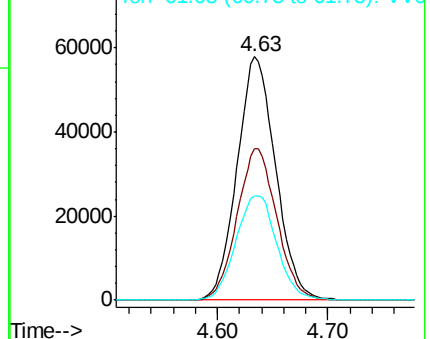
97 100

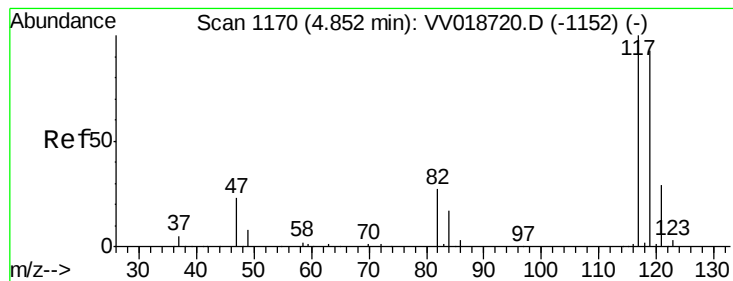
99 63.8 51.4 77.0

61 45.4 33.9 50.9



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 5.812 ug/L

RT: 4.64 min Scan# 1103

Delta R.T. -0.22 min

Lab File: VV018750.D

Acq: 08 Oct 2020 00:08

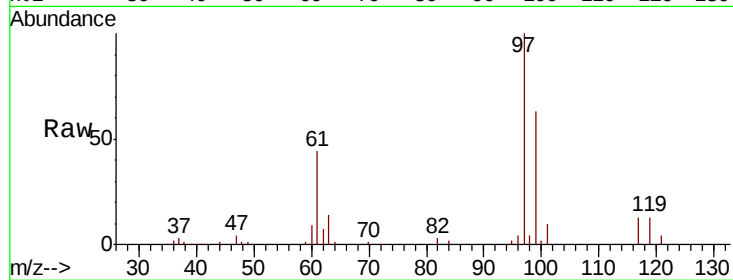
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:117 Resp: 17526

Ion Ratio Lower Upper

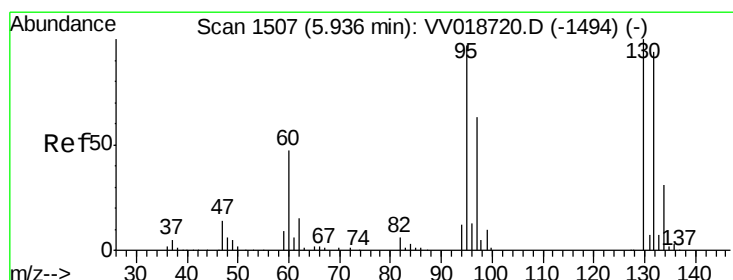
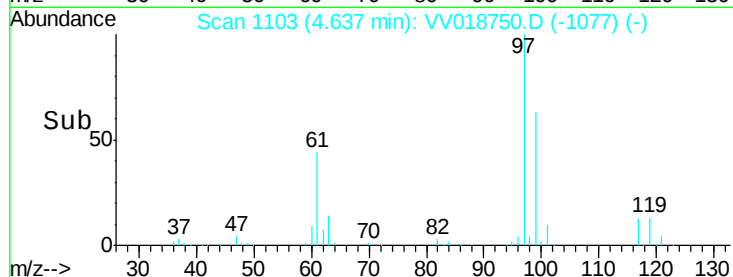
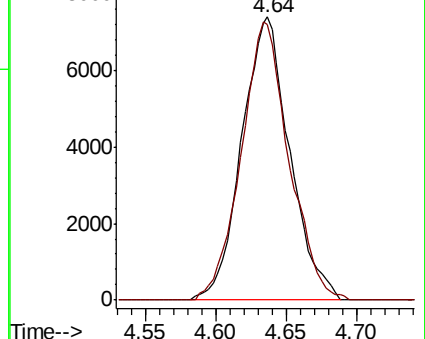
117 100

119 98.0 77.0 115.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Trichloroethene

Concen: 1.309 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV018750.D

Acq: 08 Oct 2020 00:08

Tgt Ion: 95 Resp: 3021

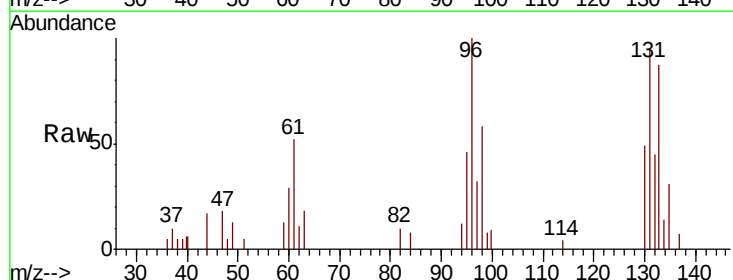
Ion Ratio Lower Upper

95 100

97 68.4 45.9 85.3

132 97.0 70.8 131.4

130 106.9 75.3 139.8

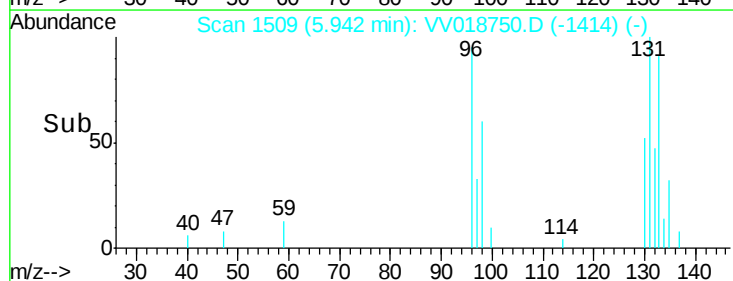
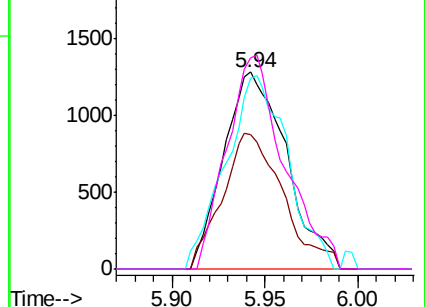


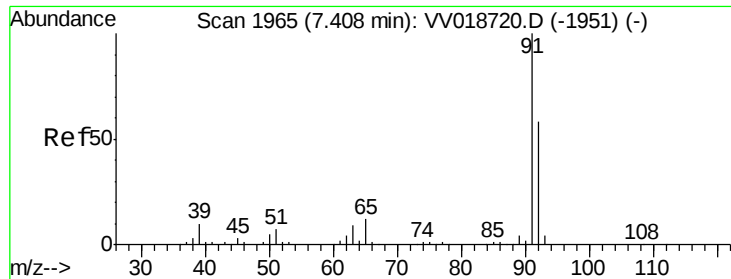
Abundance Ion 95.00 (94.70 to 95.70): VV0

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





#42

Toluene

Concen: 157.610 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV018750.D

Acq: 08 Oct 2020 00:08

Instrument :

MSVOA_V

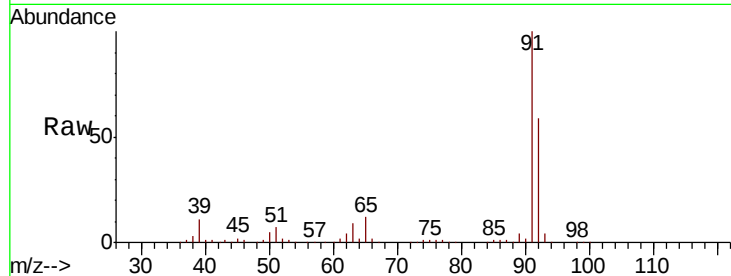
ClientSampleId :

Tot Ion: 91 Resp: 1355636

Ion Ratio Lower Upper

91 100

92 58.8 41.6 77.3



Abundance Ion 91.00 (90.70 to 91.70): VV018750.D (-1872) (-)

Ion 92.00 (91.70 to 92.70): VV018750.D (-1872) (-)

7.41

800000

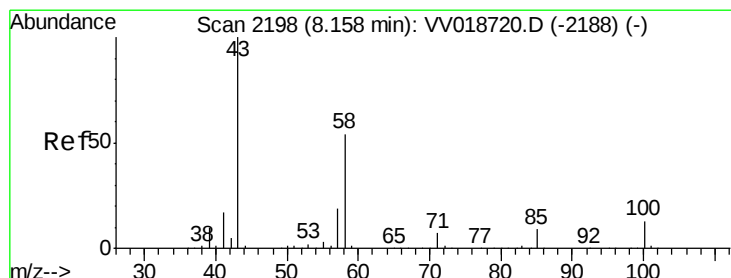
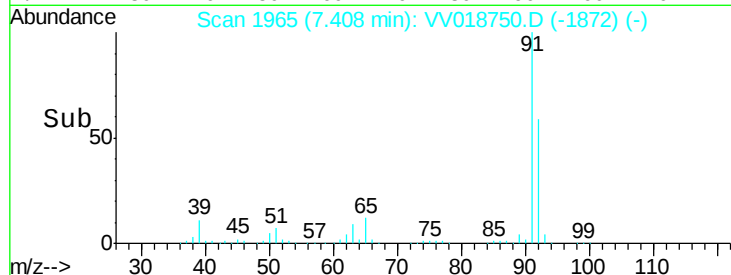
600000

400000

200000

0

Time-->



#48

2-Hexanone

Concen: 2.910 ug/L

RT: 8.17 min Scan# 2201

Delta R.T. 0.01 min

Lab File: VV018750.D

Acq: 08 Oct 2020 00:08

Tgt Ion: 43 Resp: 5977

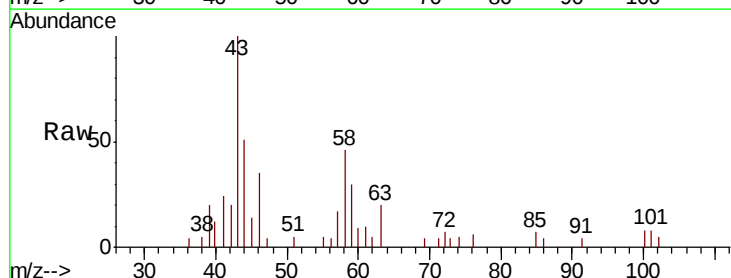
Ion Ratio Lower Upper

43 100

58 65.5 45.1 67.7

57 3.9 15.7 23.5#

100 7.3 11.0 16.4#



Abundance Ion 43.00 (42.70 to 43.70): VV018750.D (-2105) (-)

Ion 58.00 (57.70 to 58.70): VV018750.D (-2105) (-)

Ion 57.00 (56.70 to 57.70): VV018750.D (-2105) (-)

Ion 100.00 (99.70 to 100.70): VV018750.D (-2105) (-)

8.17

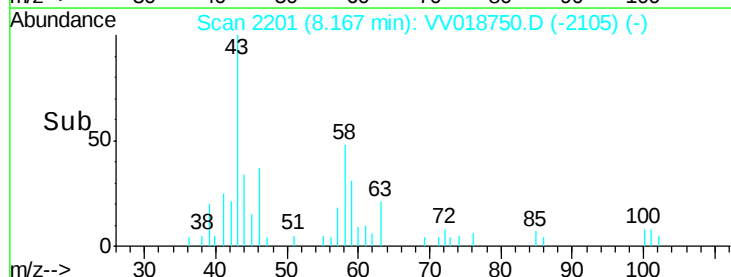
6000

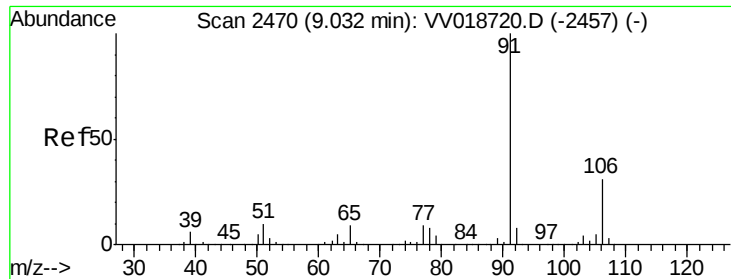
4000

2000

0

Time-->





#52

Ethylbenzene

Concen: 4.935 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV018750.D

Acq: 08 Oct 2020 00:08

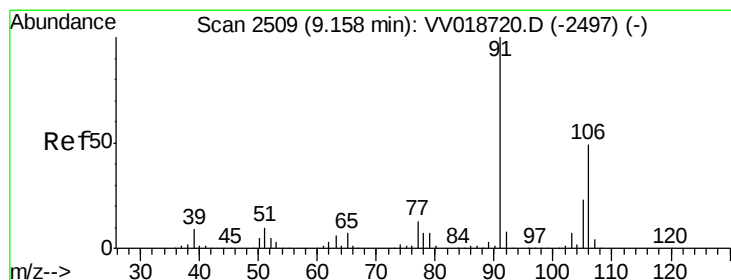
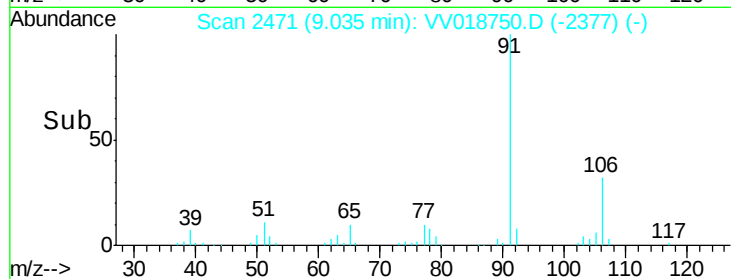
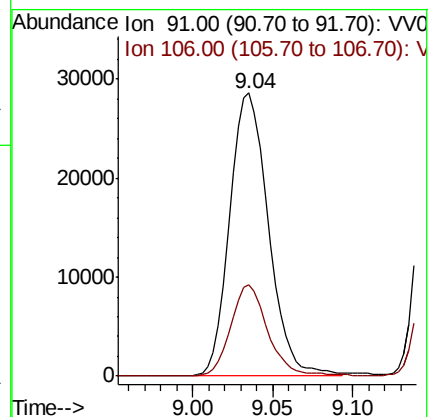
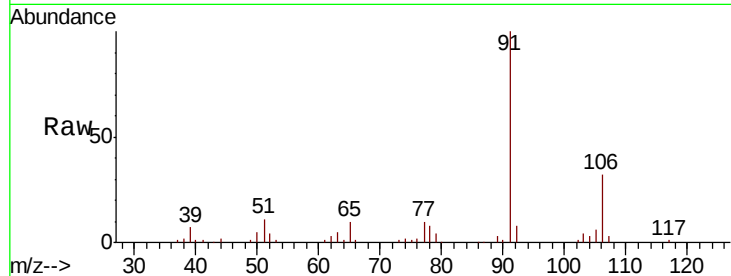
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 47401

Ion Ratio Lower Upper

91 100

106 32.3 21.9 40.7



#53

m,p-Xylene

Concen: 16.509 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV018750.D

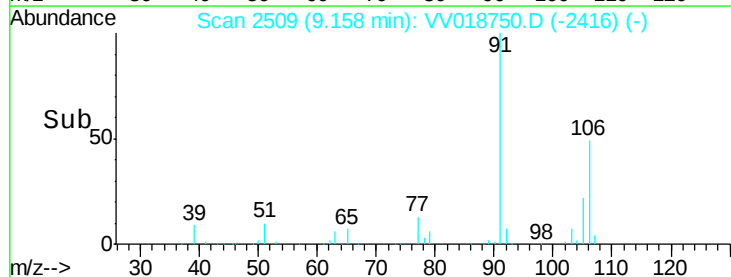
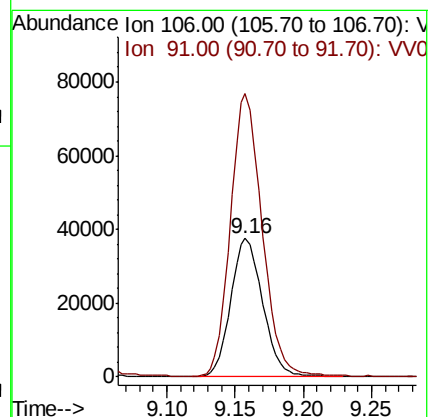
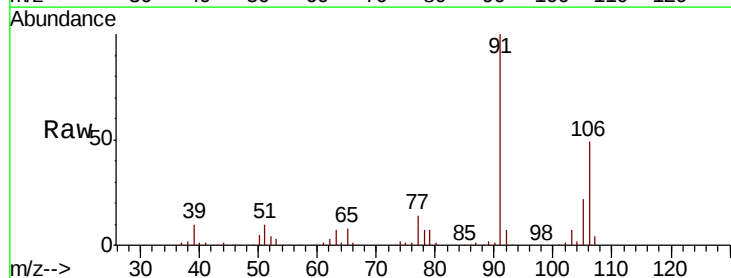
Acq: 08 Oct 2020 00:08

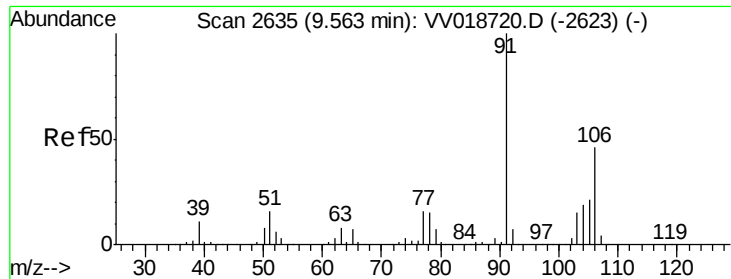
Tgt Ion: 106 Resp: 61285

Ion Ratio Lower Upper

106 100

91 204.7 142.3 264.3





#54

o-xylene

Concen: 9.448 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV018750.D

Acq: 08 Oct 2020 00:08

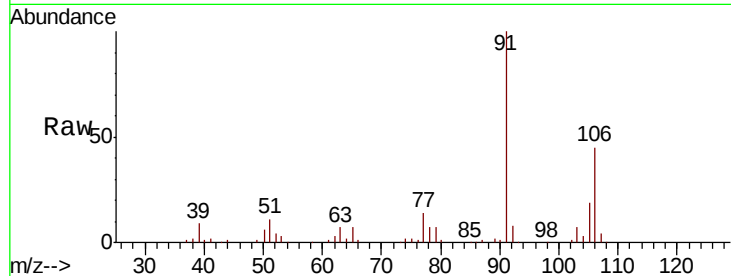
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 33204

Ion Ratio Lower Upper

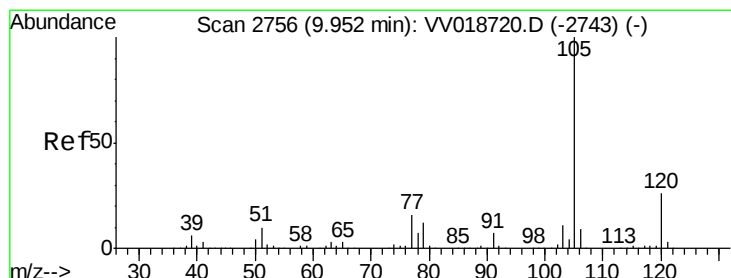
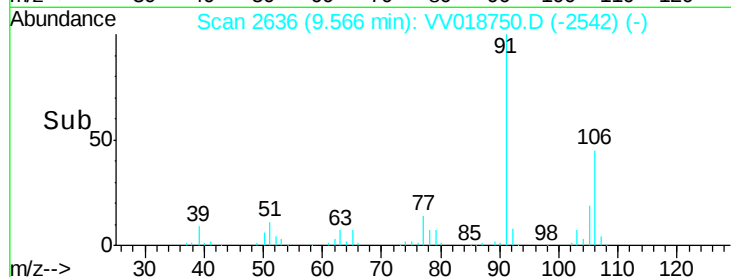
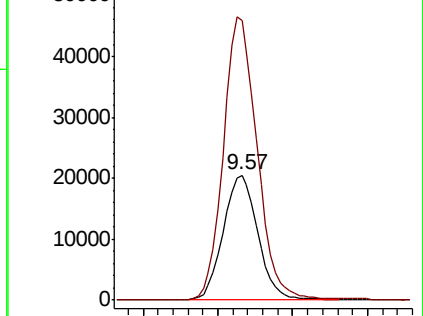
106 100

91 223.5 151.0 280.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Isopropylbenzene

Concen: 1.400 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV018750.D

Acq: 08 Oct 2020 00:08

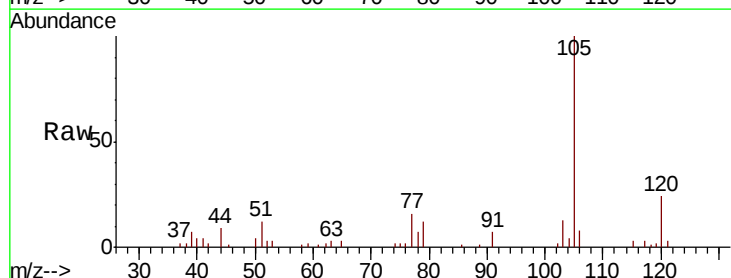
Tgt Ion:105 Resp: 13196

Ion Ratio Lower Upper

105 100

120 25.3 21.5 32.3

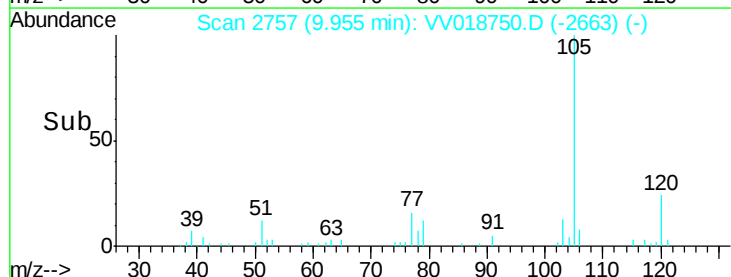
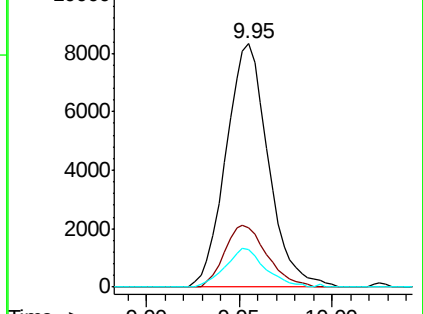
77 15.2 12.2 18.2

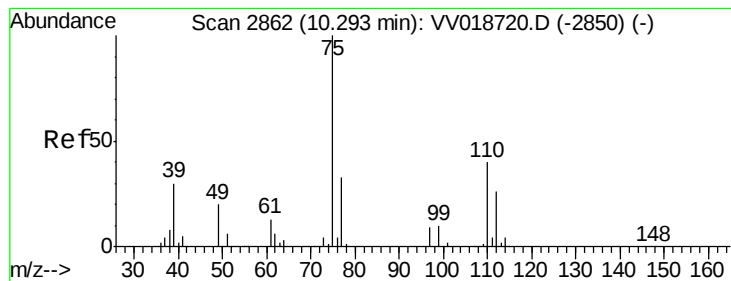


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





#59

1,2,3-Trichloropropane

Concen: 7.932 ug/L

RT: 11.27 min Scan# 3166

Delta R.T. 0.98 min

Lab File: VV018750.D

Acq: 08 Oct 2020 00:08

Instrument :

MSVOA_V

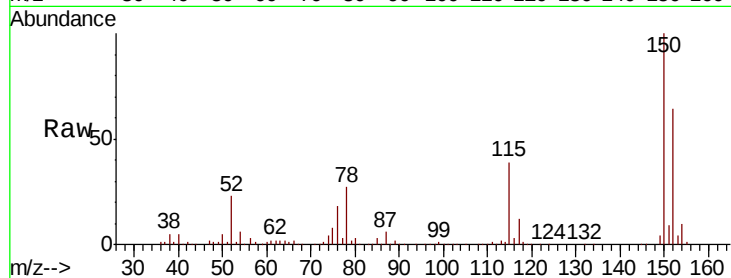
ClientSampled :

Tot Ion: 75 Resp: 19681

Ion Ratio Lower Upper

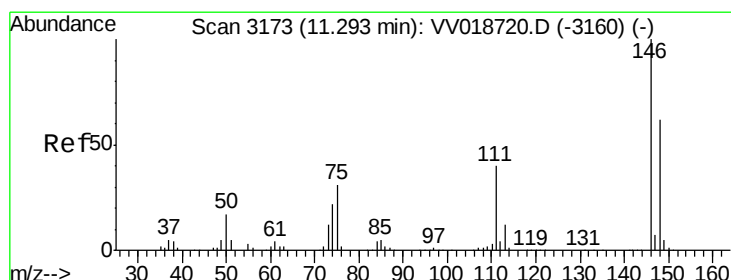
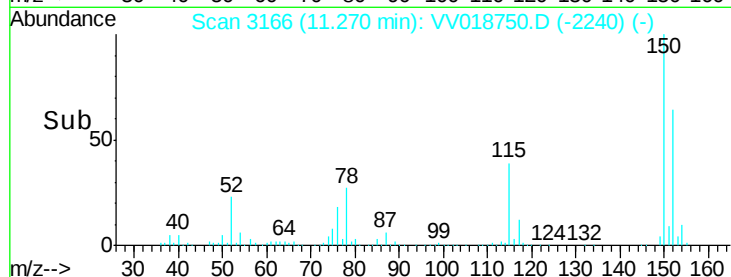
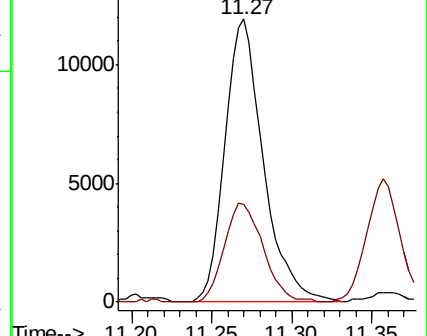
75 100

77 35.0 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VV018750.D (-2240) (-)

Ion 77.00 (76.70 to 77.70): VV018750.D (-2240) (-)



#63

1,4-Dichlorobenzene

Concen: 1.096 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV018750.D

Acq: 08 Oct 2020 00:08

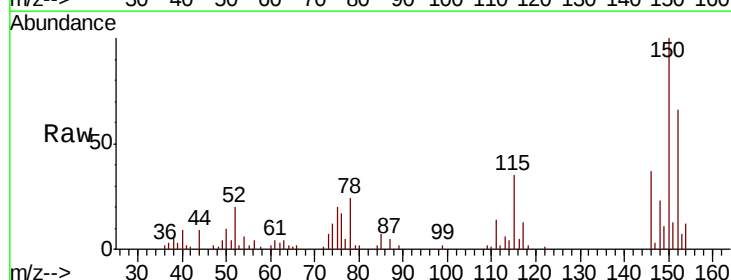
Tgt Ion: 146 Resp: 5104

Ion Ratio Lower Upper

146 100

111 36.8 26.2 48.6

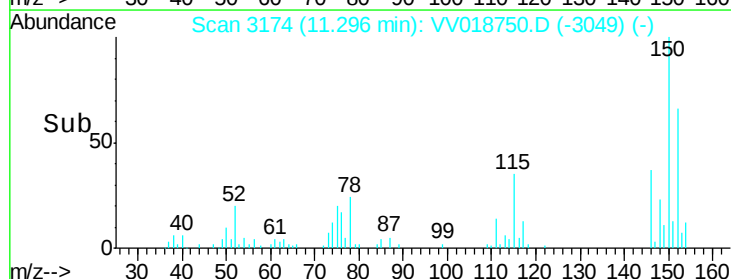
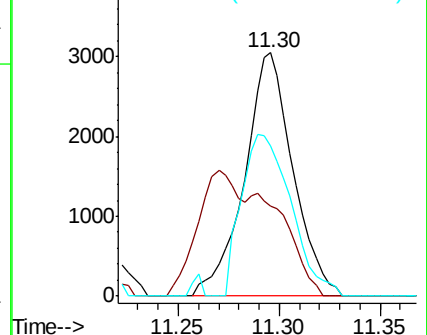
148 61.5 44.4 82.5

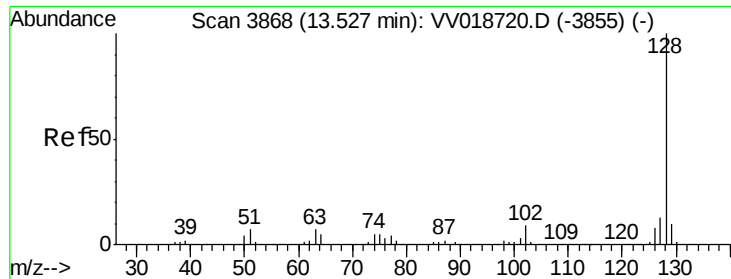


Abundance Ion 146.00 (145.70 to 146.70): VV018750.D (-3049) (-)

Ion 111.00 (110.70 to 111.70): VV018750.D (-3049) (-)

Ion 148.00 (147.70 to 148.70): VV018750.D (-3049) (-)





#69

Naphthalene

Concen: 3.950 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. -0.00 min

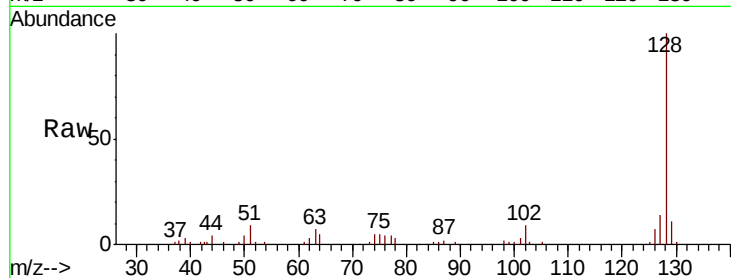
Lab File: VV018750.D

Acq: 08 Oct 2020 00:08

Instrument :

MSVOA_V

ClientSampleId :



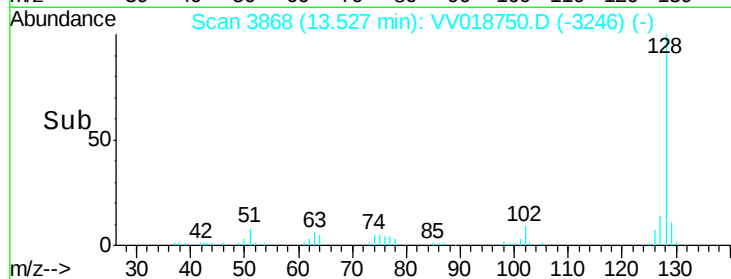
Tot Ion:128 Resp: 32970

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

129 10.7 8.6 12.8



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

