

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031819\
 Data File : VV009761.D
 Acq On : 18 Mar 2019 16:11
 Operator : SY/MD
 Sample : K1967-01
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C09A9

Quant Time: Mar 19 05:05:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM031719WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Mar 18 12:32:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	153486	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	146938	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	74888	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	42394	40.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	81.94%
7) Chloroethane-d5	1.56	69	34800	45.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.16%
11) 1,1-Dichloroethene-d2	2.12	63	70720	32.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	64.18%
21) 2-Butanone-d5	3.93	46	55451	89.96	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.96%
24) Chloroform-d	4.40	84	82437	43.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.72%
26) 1,2-Dichloroethane-d4	5.08	65	52664	45.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.28%
32) Benzene-d6	5.10	84	177952	46.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.70%
36) 1,2-Dichloropropane-d6	6.12	67	53488	45.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.52%
41) Toluene-d8	7.36	98	169098	45.77	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.54%
43) trans-1,3-Dichloropropene-	7.66	79	24949	45.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.26%
47) 2-Hexanone-d5	8.14	63	42045	88.37	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	88.37%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	76507	43.14	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	86.28%
64) 1,2-Dichlorobenzene-d4	11.68	152	68056	44.91	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.82%

Target Compounds

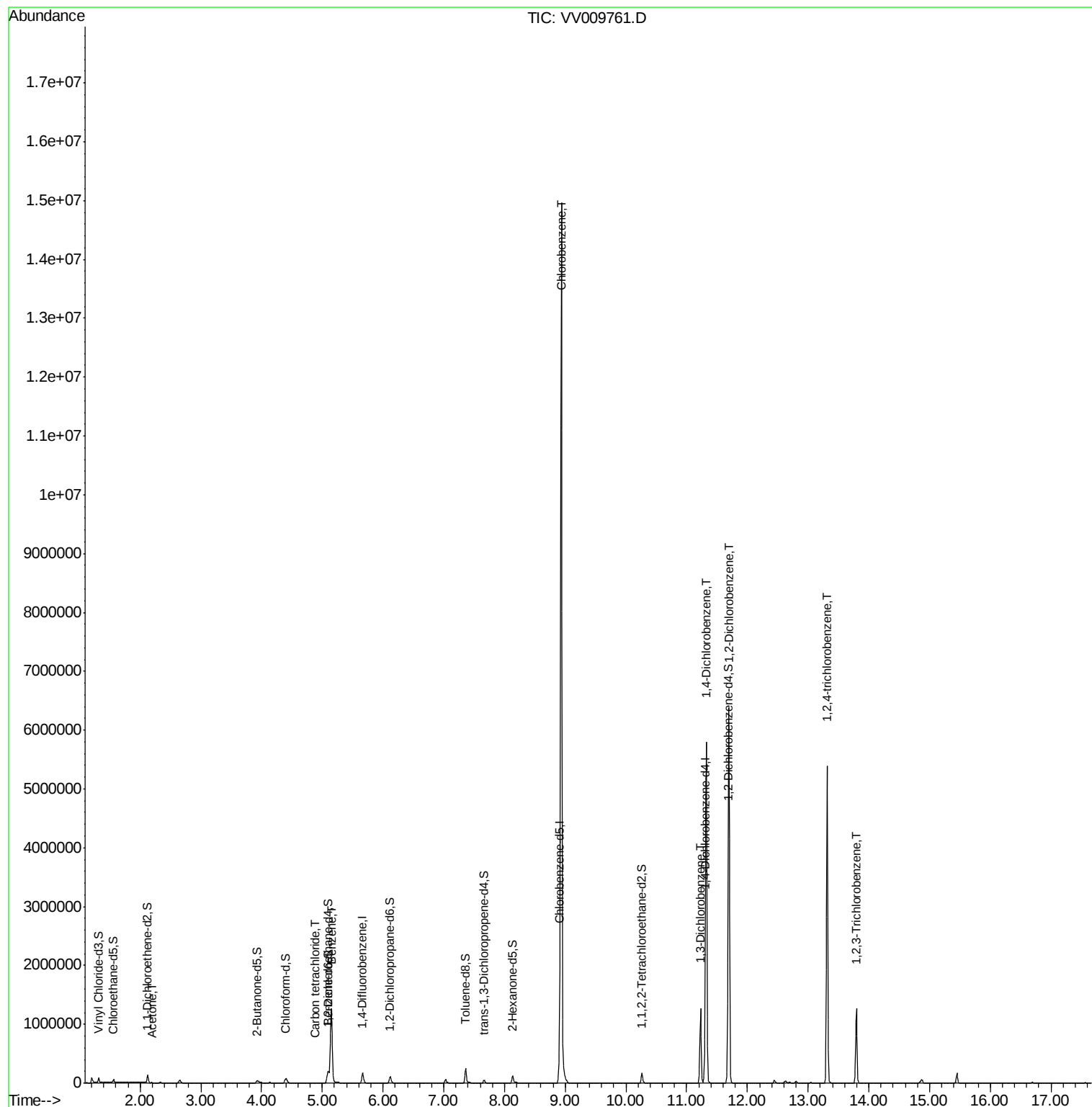
					Ovalue
13) Acetone	2.19	43	2730	4.676	ug/L 93
31) Carbon tetrachloride	4.88	117	2167	1.640	ug/L # 70
33) Benzene	5.15	78	1282141	319.696	ug/L 100
51) Chlorobenzene	8.94	112	7347141	2448.366	ug/L 92
62) 1,3-Dichlorobenzene	11.23	146	504681	205.418	ug/L 99
63) 1,4-Dichlorobenzene	11.32	146	2161565	872.089	ug/L 98
65) 1,2-Dichlorobenzene	11.69	146	2268145	904.779	ug/L 96
68) 1,2,4-trichlorobenzene	13.31	180	1426221	1302.342	ug/L 99
70) 1,2,3-Trichlorobenzene	13.79	180	340078	309.765	ug/L 96

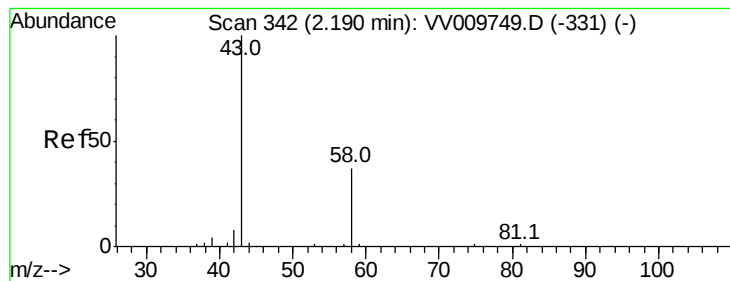
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 4.676 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.00 min

Lab File: VV009761.D

Acq: 18 Mar 2019 16:11

Instrument :

MSVOA_V

ClientSampleId :

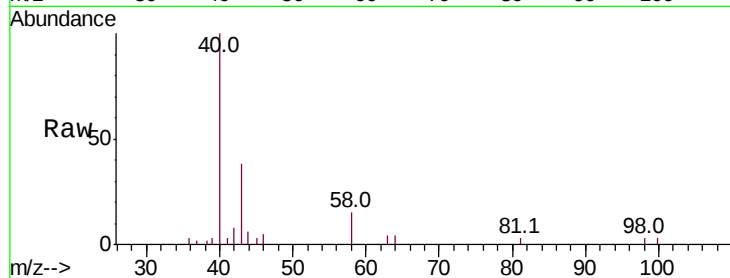
C09A9

Tot Ion: 43 Resp: 2730

Ion Ratio Lower Upper

43 100

58 37.8 0.0 67.8



Abundance Ion 43.00 (42.70 to 43.70): VV009749.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV009749.D (-331) (-)

2.19

1500

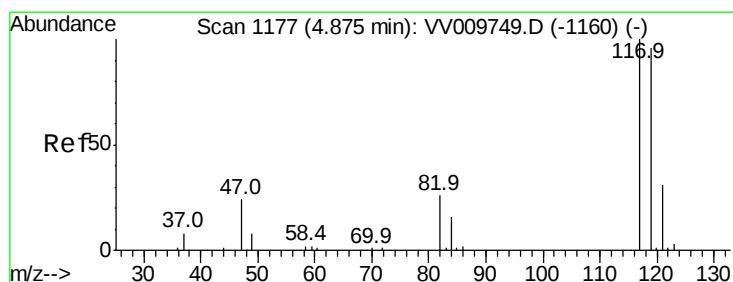
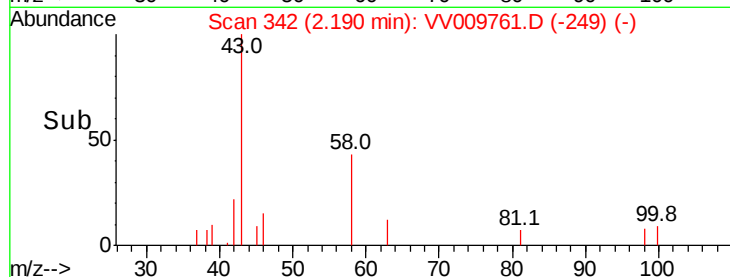
1000

500

0

2.15 2.20 2.25

Time-->



#31

Carbon tetrachloride

Concen: 1.640 ug/L

RT: 4.88 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VV009761.D

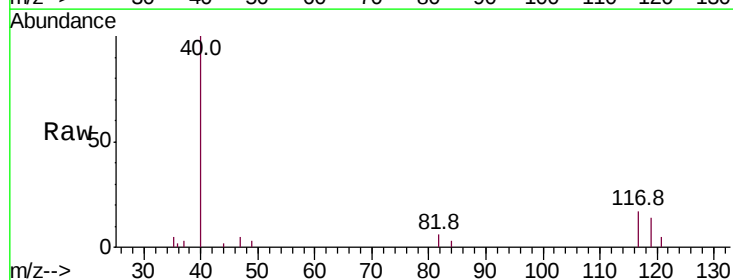
Acq: 18 Mar 2019 16:11

Tgt Ion: 117 Resp: 2167

Ion Ratio Lower Upper

117 100

119 64.2 74.9 112.3#



Abundance Ion 117.00 (116.70 to 117.70): VV009749.D (-1160) (-)

Ion 119.00 (118.70 to 119.70): VV009749.D (-1160) (-)

4.88

1000

800

600

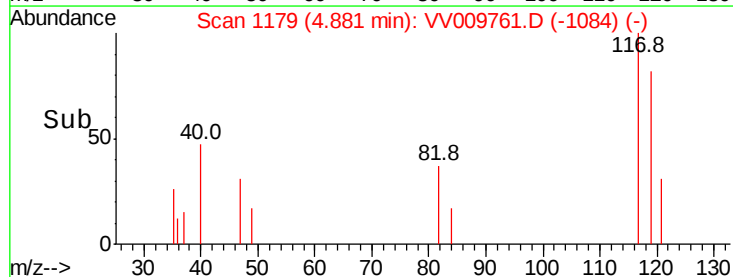
400

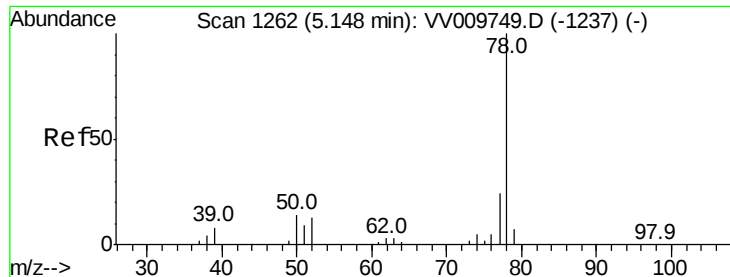
200

0

4.85 4.90

Time-->





#33

Benzene

Concen: 319.696 ug/L

RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

Lab File: VV009761.D

Acq: 18 Mar 2019 16:11

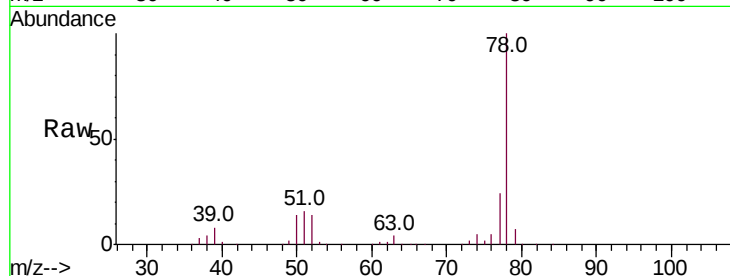
Instrument :

MSVOA_V

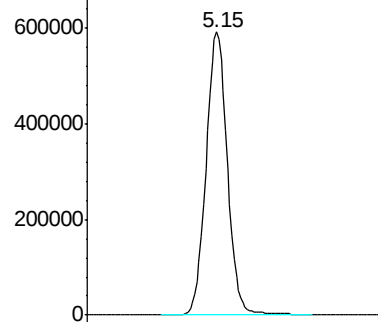
ClientSampleId :

C09A9

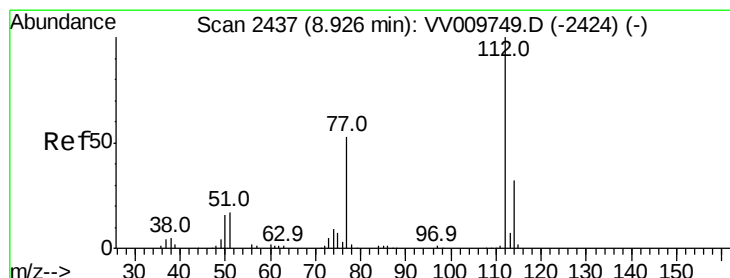
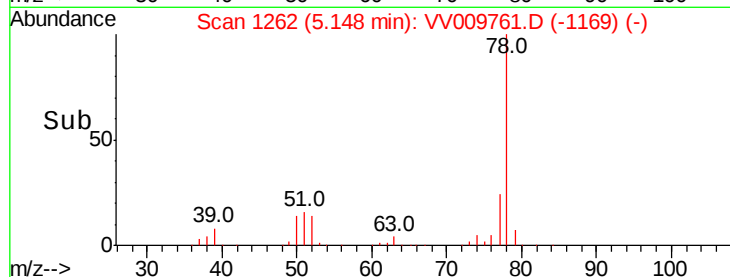
Tgt Ion: 78 Resp: 1282141



Abundance Ion 78.00 (77.70 to 78.70): VV0



Time-->



#51

Chlorobenzene

Concen: 2448.366 ug/L

RT: 8.94 min Scan# 2440

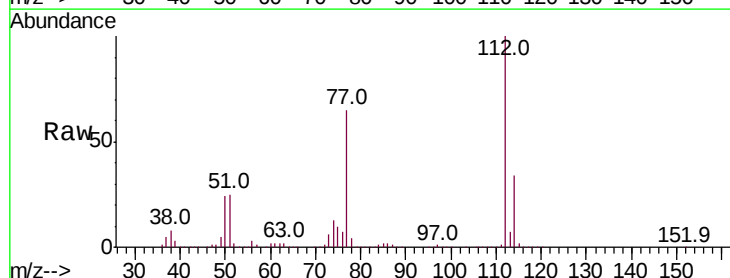
Delta R.T. 0.01 min

Lab File: VV009761.D

Acq: 18 Mar 2019 16:11

Tgt Ion: 112 Resp: 7347141

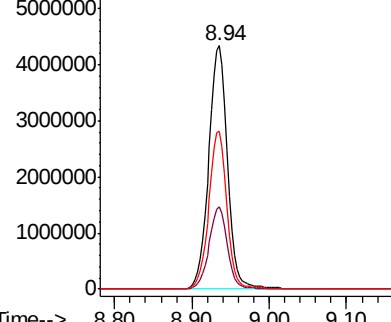
Ion	Ratio	Lower	Upper
112	100		
114	33.7	22.5	41.9
77	64.7	45.4	68.2



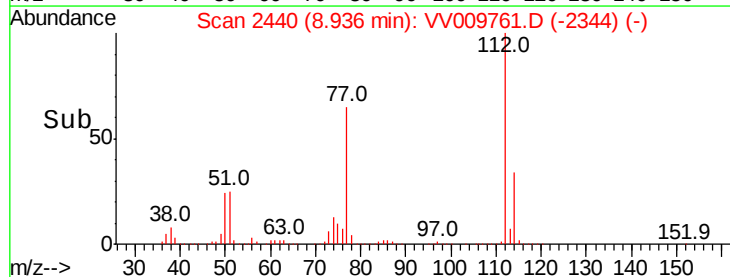
Abundance Ion 112.00 (111.70 to 112.70): V

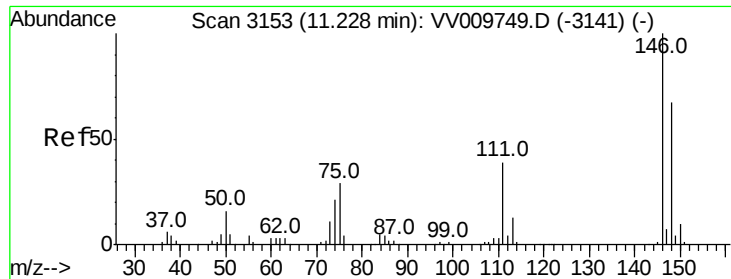
Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0



Time-->





#62

1,3-Dichlorobenzene

Concen: 205.418 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. -0.00 min

Lab File: VV009761.D

Acq: 18 Mar 2019 16:11

Instrument :

MSVOA_V

ClientSampleId :

C09A9

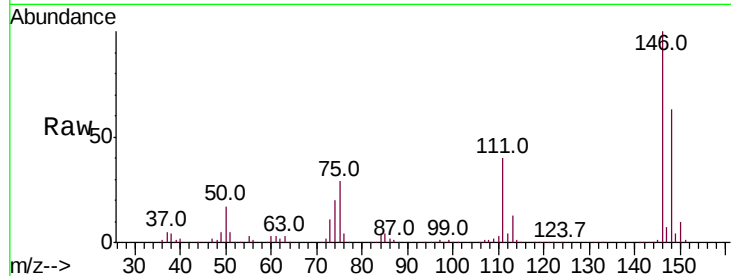
Tot Ion:146 Resp: 504681

Ion Ratio Lower Upper

146 100

111 39.9 28.8 53.4

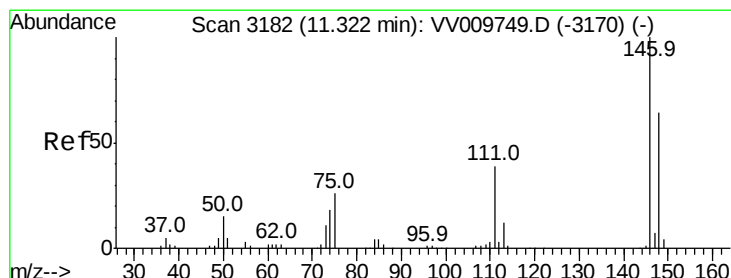
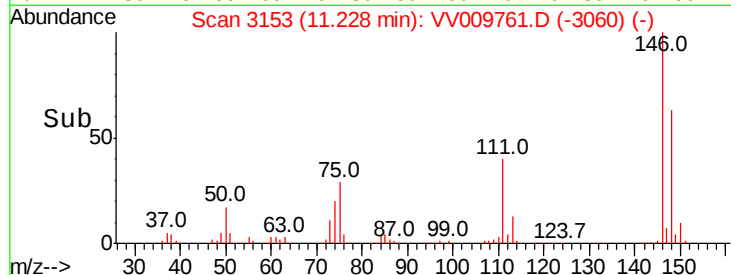
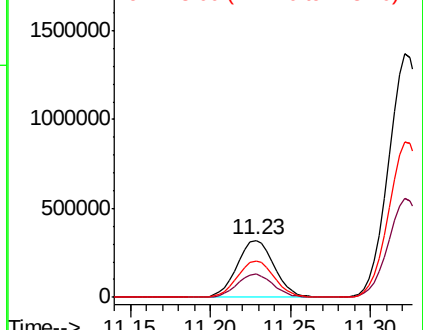
148 63.5 44.8 83.2



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: 872.089 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VV009761.D

Acq: 18 Mar 2019 16:11

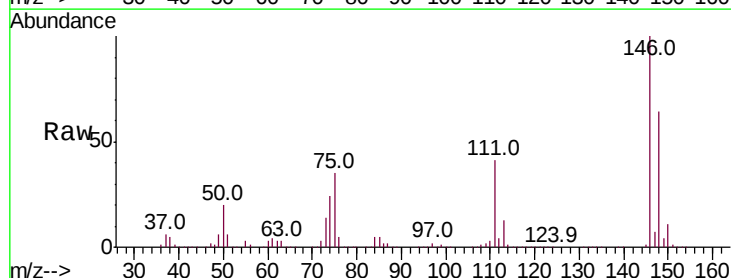
Tgt Ion:146 Resp: 2161565

Ion Ratio Lower Upper

146 100

111 40.8 26.7 49.5

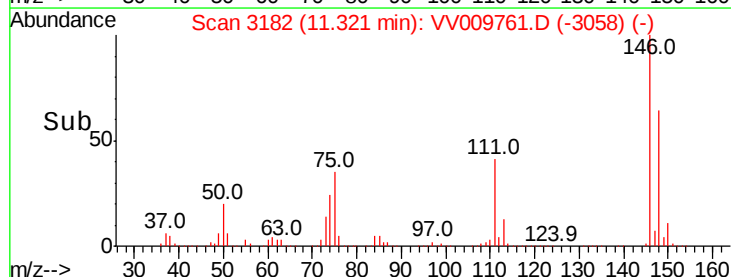
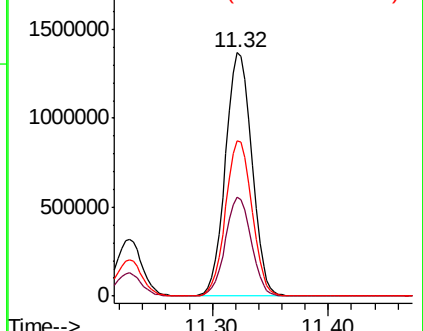
148 63.8 44.3 82.3

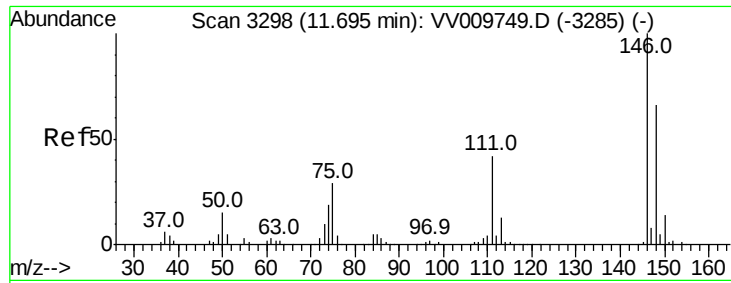


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 904.779 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VV009761.D

Acq: 18 Mar 2019 16:11

Instrument :

MSVOA_V

ClientSampleId :

C09A9

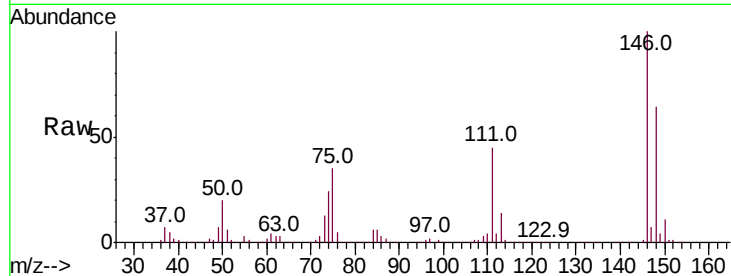
Tot Ion:146 Resp: 2268145

Ion Ratio Lower Upper

146 100

111 44.6 32.2 48.4

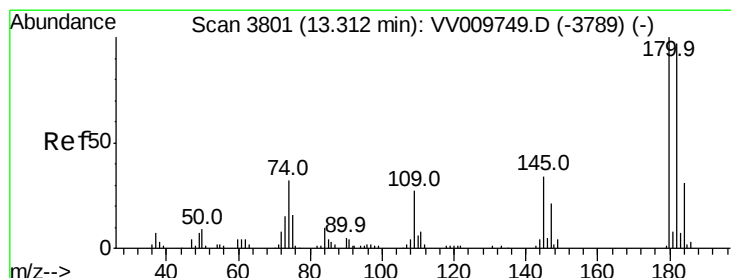
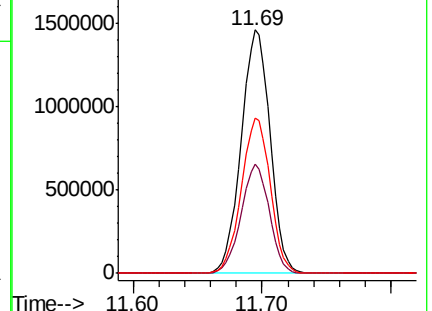
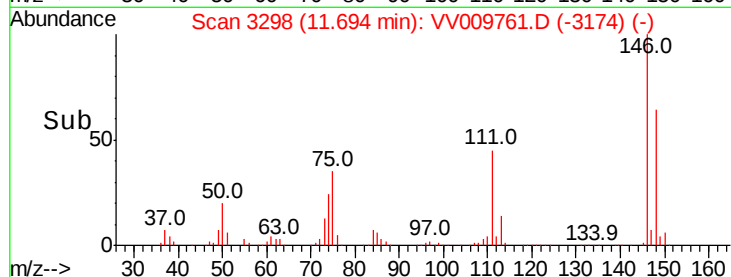
148 63.6 49.6 74.4



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



#68

1,2,4-trichlorobenzene

Concen: 1302.342 ug/L

RT: 13.31 min Scan# 3802

Delta R.T. 0.00 min

Lab File: VV009761.D

Acq: 18 Mar 2019 16:11

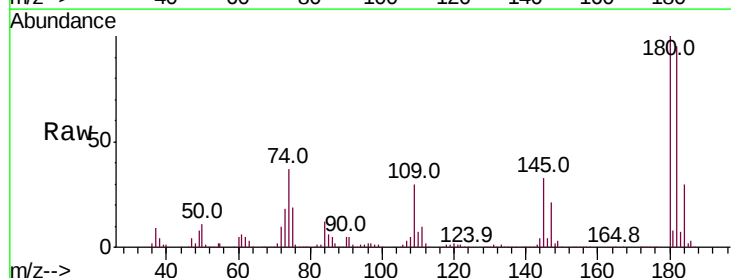
Tgt Ion:180 Resp: 1426221

Ion Ratio Lower Upper

180 100

182 94.7 75.7 113.5

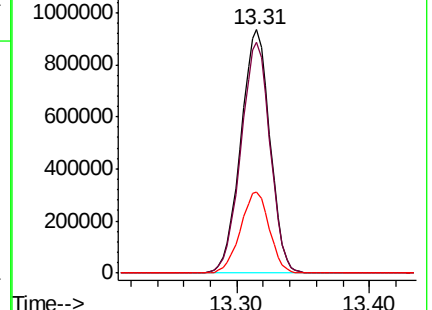
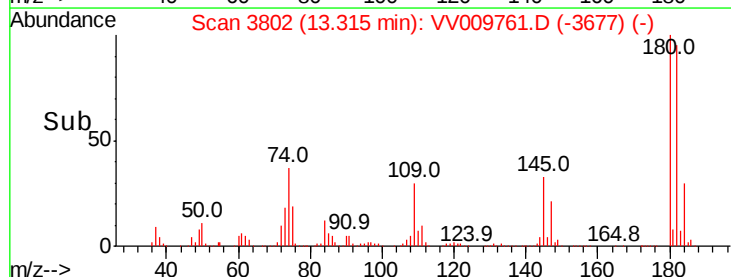
145 32.9 25.3 37.9

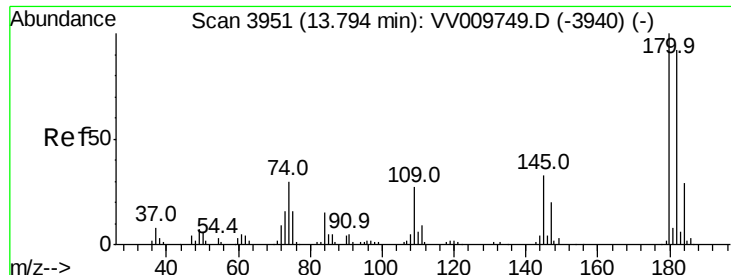


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

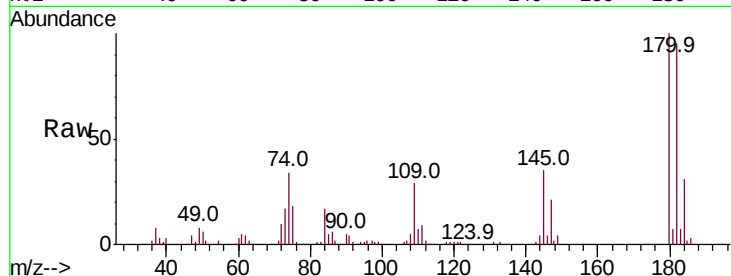




#70
 1,2,3-Trichlorobenzene
 Concen: 309.765 ug/L
 RT: 13.79 min Scan# 3951
 Delta R.T. -0.00 min
 Lab File: VV009761.D
 Acq: 18 Mar 2019 16:11

Instrument :
 MSVOA_V
 ClientSampleId :
 C09A9

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	73.3	109.9
145	34.8	26.4	39.6



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

