

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV032620\
 Data File : VV015182.D
 Acq On : 26 Mar 2020 22:12
 Operator : SY/MD
 Sample : L1968-16 100X
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Mar 27 03:40:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM032620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Mar 27 03:08:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	588099	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	569169	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	259040	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	205934	65.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	130.54%
7) Chloroethane-d5	1.79	69	515	0.16	ug/L	0.21
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.32%#
11) 1,1-Dichloroethene-d2	2.12	63	326601	45.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.78%
21) 2-Butanone-d5	3.94	46	286833	91.30	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	91.30%
24) Chloroform-d	4.38	84	359021	51.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.84%
26) 1,2-Dichloroethane-d4	5.06	65	245062	53.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.36%
32) Benzene-d6	5.08	84	734239	62.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	125.42%#
36) 1,2-Dichloropropane-d6	6.09	67	232690	55.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	110.20%
41) Toluene-d8	7.34	98	710886	67.01	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	134.02%#
43) trans-1,3-Dichloropropene-	7.64	79	114527	49.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.58%
47) 2-Hexanone-d5	8.11	63	231673	93.82	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.82%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	344349	48.01	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.02%
64) 1,2-Dichlorobenzene-d4	11.47	152	69	0.01	ug/L	-0.17
Spiked Amount	50.000	Range	80 - 120	Recovery	=	0.02%#

Target Compounds

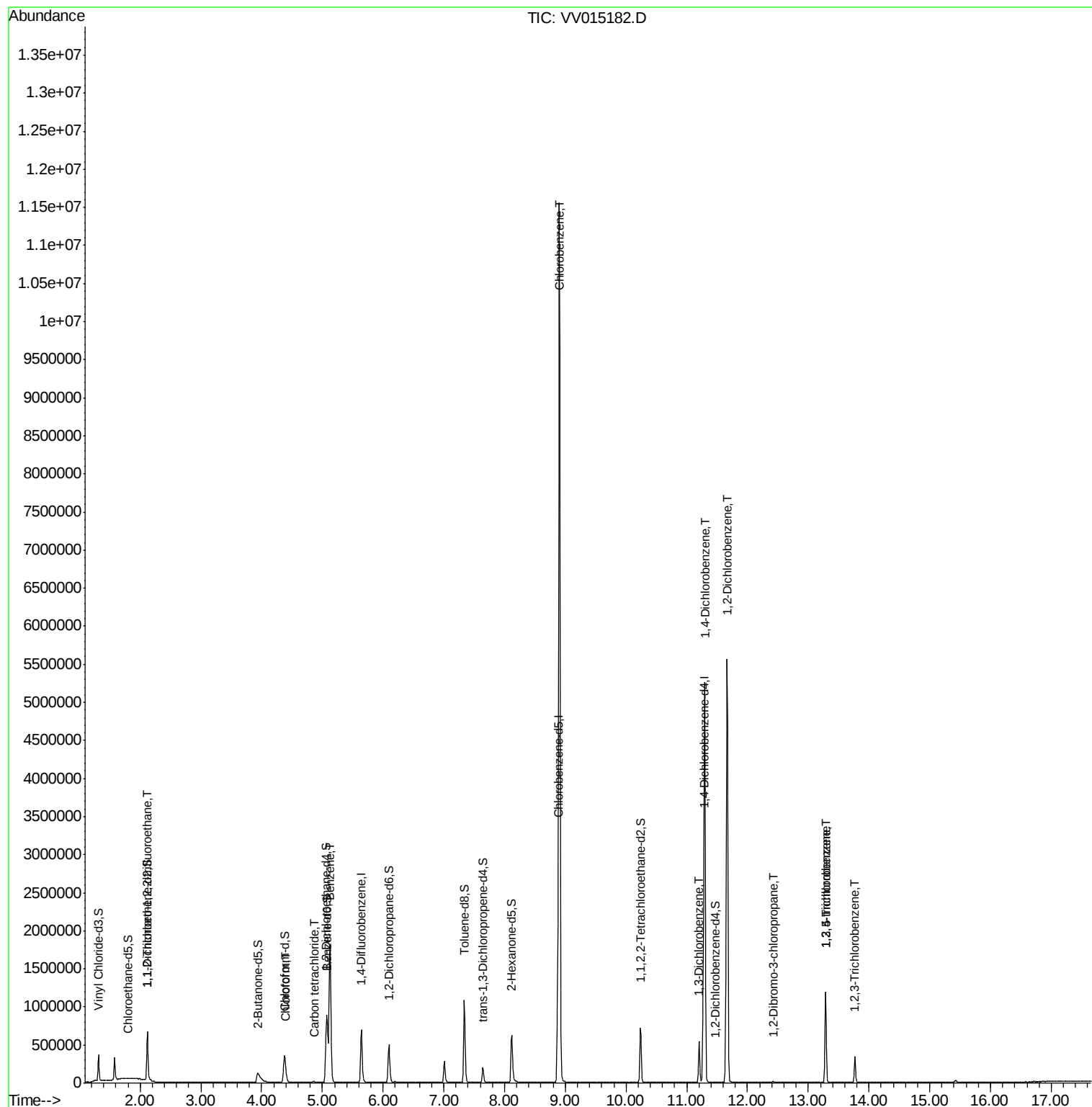
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	3441	0.714	ug/L #	28
25) Chloroform	4.41	83	34013	4.336	ug/L	98
31) Carbon tetrachloride	4.85	117	8938	1.475	ug/L	97
33) Benzene	5.13	78	1786805	105.448	ug/L	100
51) Chlorobenzene	8.90	112	5851345	484.584	ug/L	97
62) 1,3-Dichlorobenzene	11.21	146	196491	22.623	ug/L	96
63) 1,4-Dichlorobenzene	11.30	146	1873287	213.510	ug/L	99
65) 1,2-Dichlorobenzene	11.67	146	1967272	223.406	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.42	75	2272	1.161	ug/L #	6
67) 1,3,5-Trichlorobenzene	13.29	180	307075	55.253	ug/L	99
68) 1,2,4-trichlorobenzene	13.29	180	307075	57.927	ug/L	99
70) 1,2,3-Trichlorobenzene	13.77	180	86869	16.366	ug/L	99

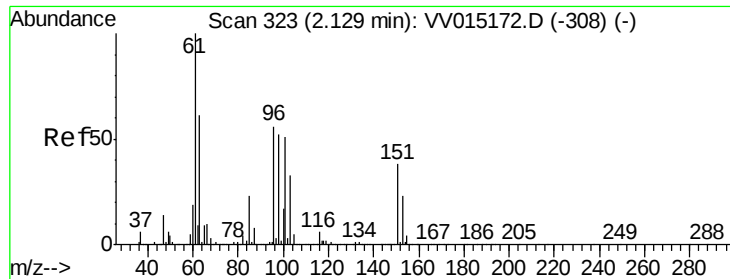
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis
QLast Update : Fri Mar 27 03:08:32 2020
Response via : Initial Calibration





#10

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

Concen: 0.714 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV015182.D

Acq: 26 Mar 2020 22:12

Instrument :

MSVOA_V

ClientSampled :

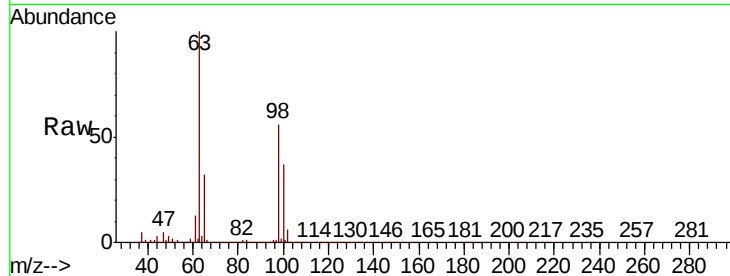
Tot Ion:101 Resp: 3441

Ion Ratio Lower Upper

101 100

85 4.7 37.1 55.7#

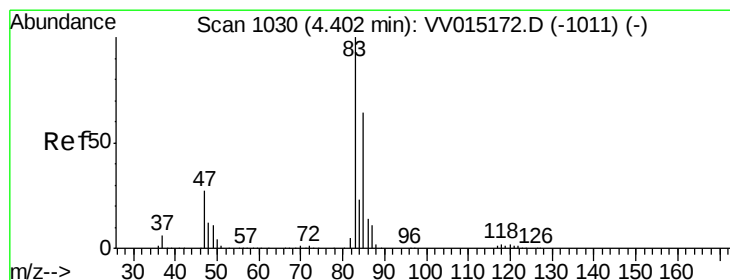
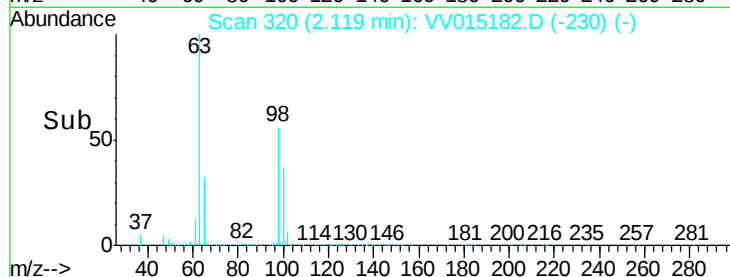
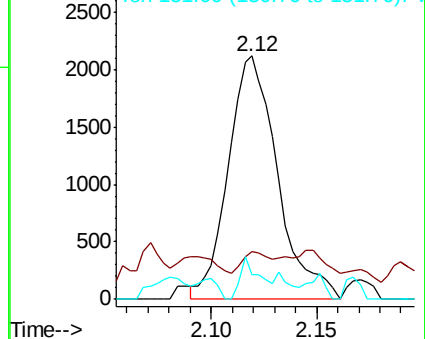
151 6.9 57.7 86.5#



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



#25

Chloroform

Concen: 4.336 ug/L

RT: 4.41 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VV015182.D

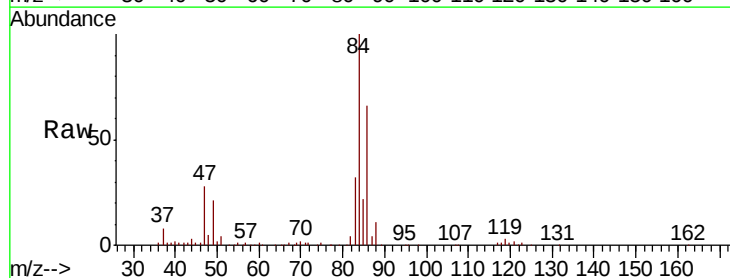
Acq: 26 Mar 2020 22:12

Tgt Ion: 83 Resp: 34013

Ion Ratio Lower Upper

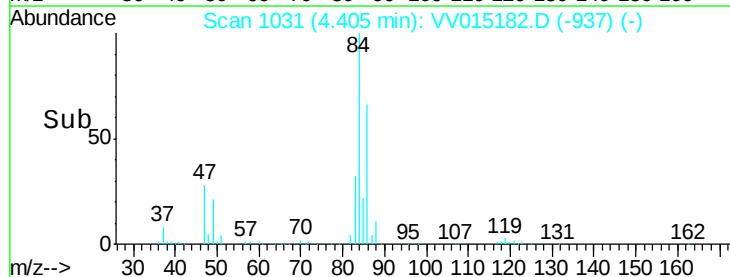
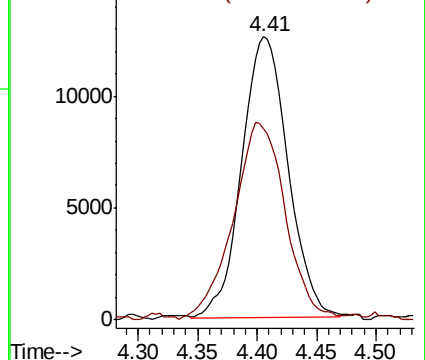
83 100

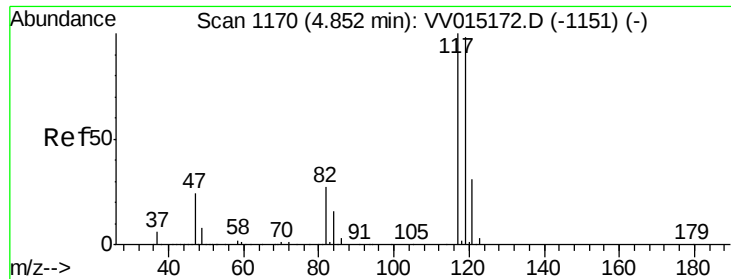
85 67.5 46.2 85.8



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

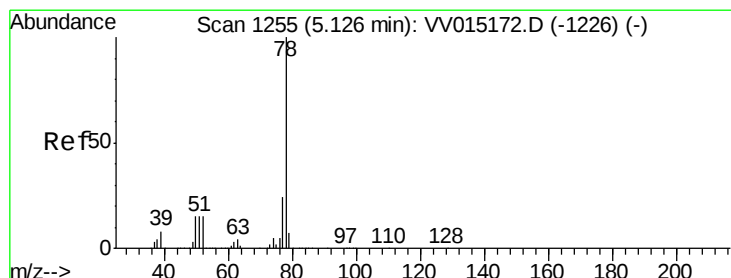
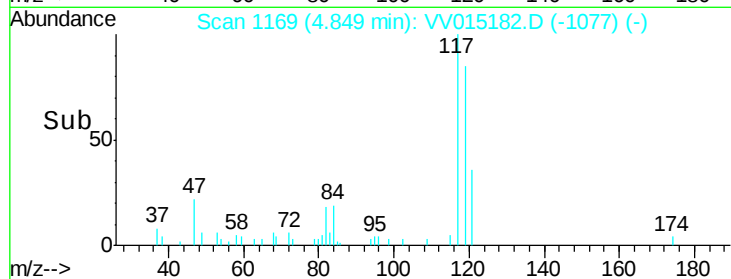
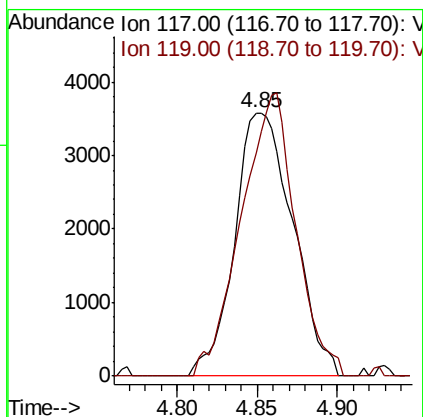
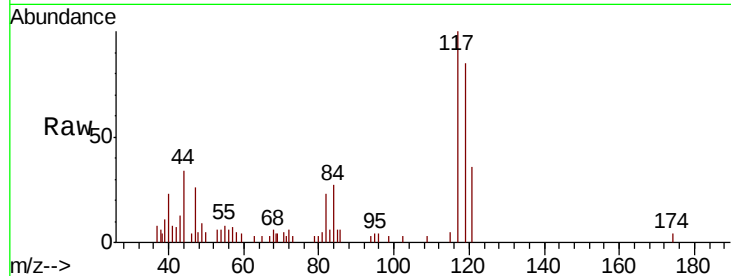




#31
Carbon tetrachloride
Concen: 1.475 ug/L
RT: 4.85 min Scan# 1169
Delta R.T. -0.00 min
Lab File: VV015182.D
Acq: 26 Mar 2020 22:12

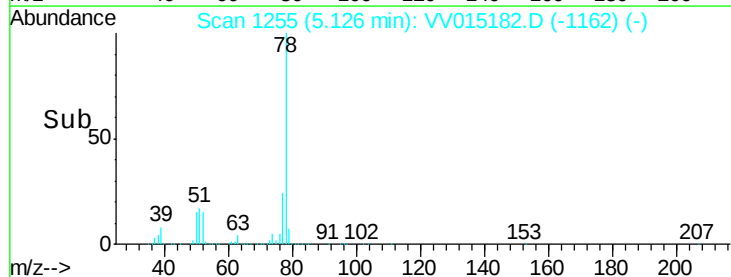
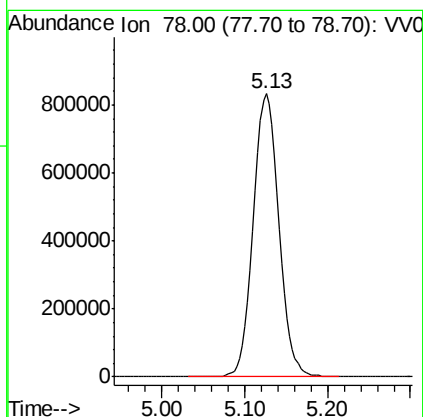
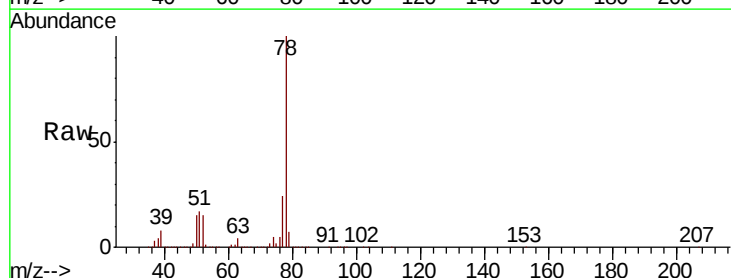
Instrument :
MSVOA_V
ClientSampleId :

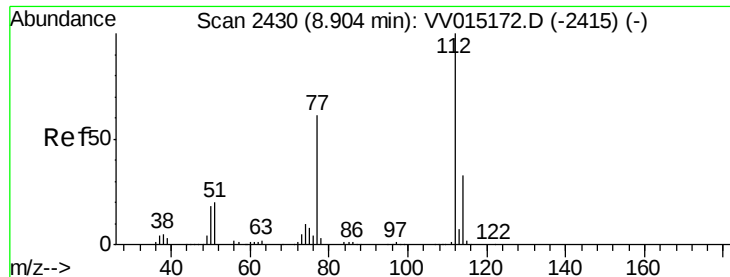
Tot Ion:117 Resp: 8938
Ion Ratio Lower Upper
117 100
119 99.1 76.6 115.0



#33
Benzene
Concen: 105.448 ug/L
RT: 5.13 min Scan# 1255
Delta R.T. -0.00 min
Lab File: VV015182.D
Acq: 26 Mar 2020 22:12

Tgt Ion: 78 Resp: 1786805





#51

Chlorobenzene

Concen: 484.584 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. -0.00 min

Lab File: VV015182.D

Acq: 26 Mar 2020 22:12

Instrument :
MSVOA_V
ClientSampleId :

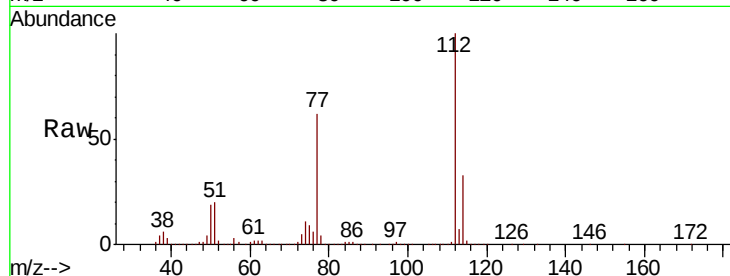
Tot Ion:112 Resp: 5851345

Ion Ratio Lower Upper

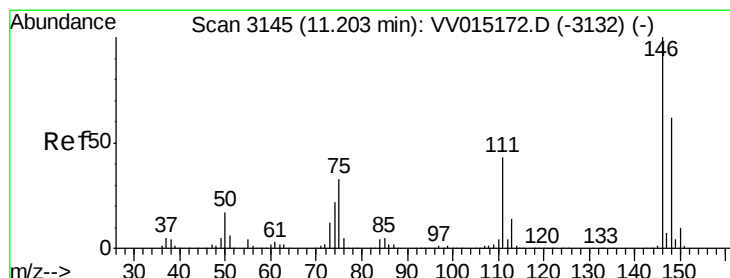
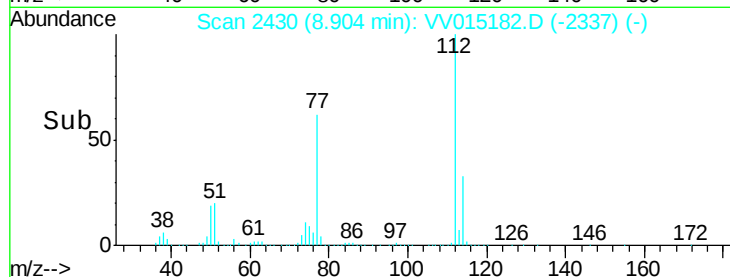
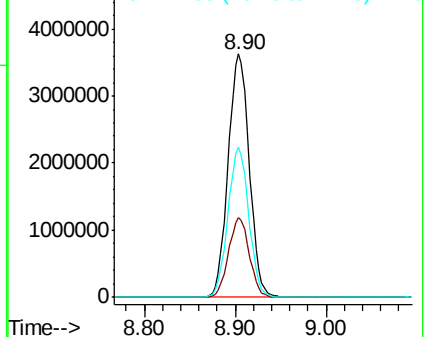
112 100

114 32.8 22.1 41.1

77 61.7 47.3 70.9



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: 22.623 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV015182.D

Acq: 26 Mar 2020 22:12

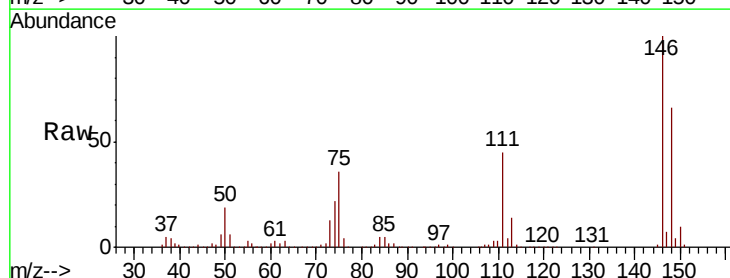
Tgt Ion:146 Resp: 196491

Ion Ratio Lower Upper

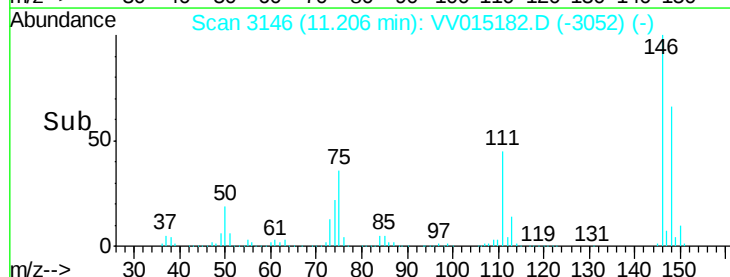
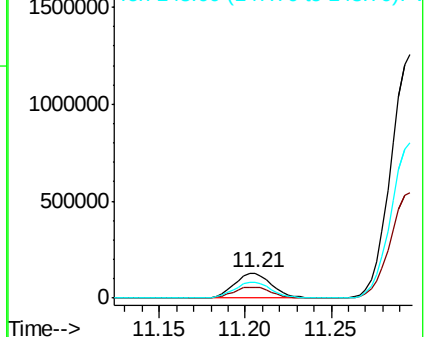
146 100

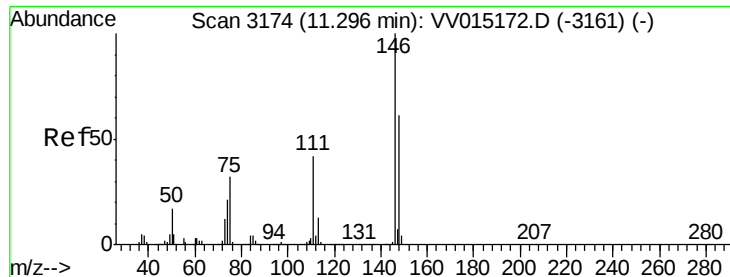
111 45.3 30.5 56.7

148 66.0 44.0 81.6



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



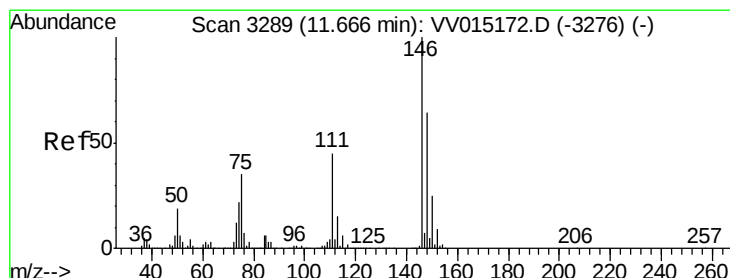
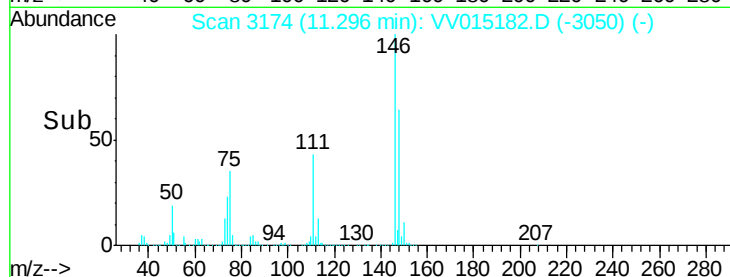
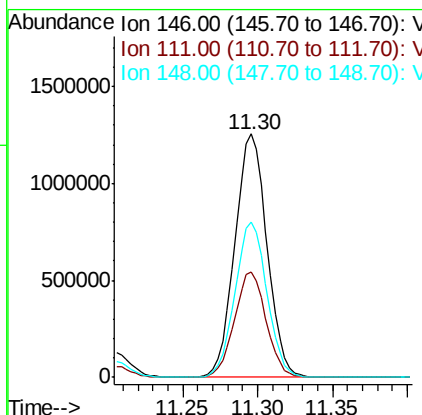
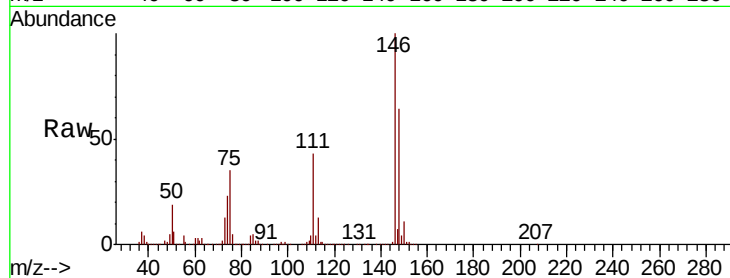


#63
 1,4-Dichlorobenzene
 Concen: 213.510 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. -0.00 min
 Lab File: VV015182.D
 Acq: 26 Mar 2020 22:12

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:146 Resp: 1873287

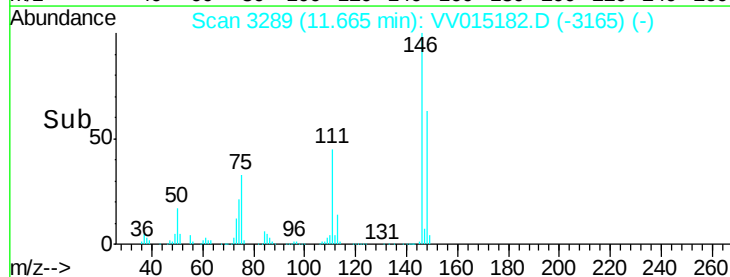
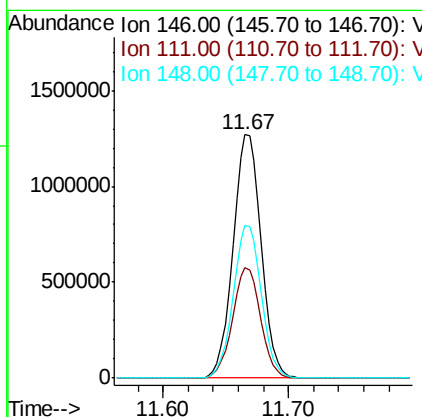
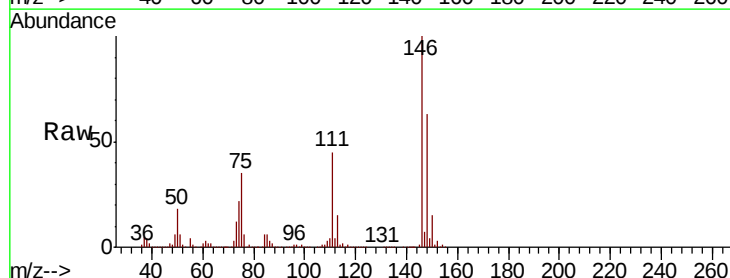
Ion	Ratio	Lower	Upper
146	100		
111	43.1	29.2	54.2
148	63.6	44.8	83.2

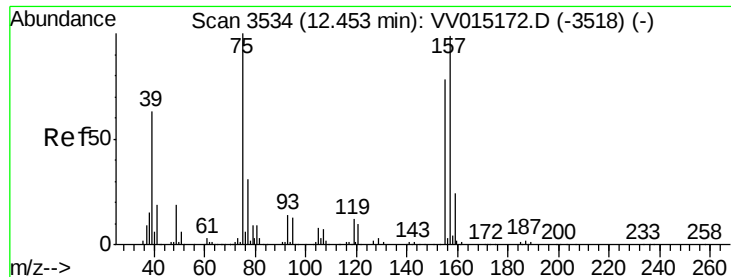


#65
 1,2-Dichlorobenzene
 Concen: 223.406 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. -0.00 min
 Lab File: VV015182.D
 Acq: 26 Mar 2020 22:12

Tgt Ion:146 Resp: 1967272

Ion	Ratio	Lower	Upper
146	100		
111	45.4	35.4	53.2
148	62.7	49.7	74.5





#66

1,2-Dibromo-3-chloropropane

Concen: 1.161 ug/L

RT: 12.42 min Scan# 3525

Delta R.T. -0.03 min

Lab File: VV015182.D

Acq: 26 Mar 2020 22:12

Instrument :

MSVOA_V

ClientSampleId :

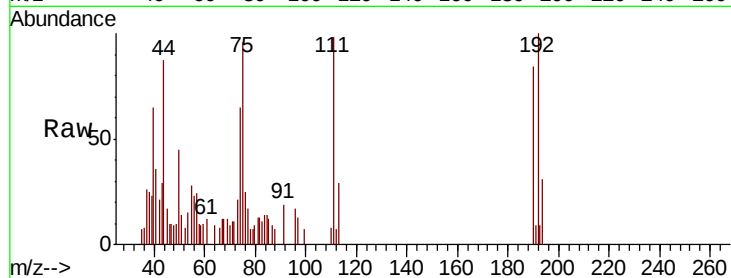
Tot Ion: 75 Resp: 2272

Ion Ratio Lower Upper

75 100

155 0.0 60.5 90.7#

157 0.0 76.7 115.1#

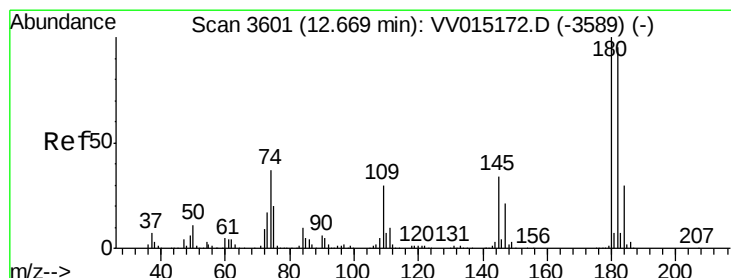
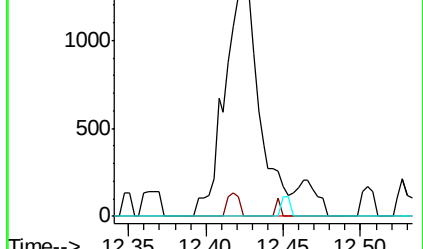
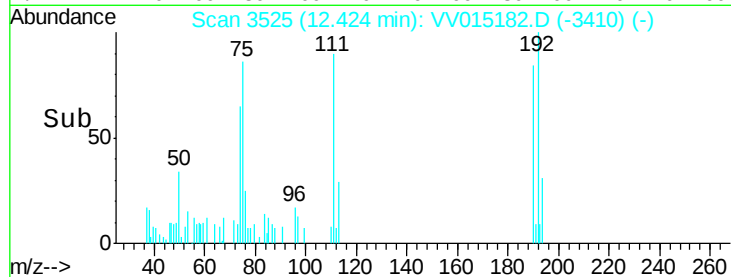


Abundance Ion 75.00 (74.70 to 75.70): VV015182.D (-3410) (-)

Ion 155.00 (154.70 to 155.70): VV015182.D (-3410) (-)

Ion 157.00 (156.70 to 157.70): VV015182.D (-3410) (-)

Time--> 12.35 12.40 12.45 12.50



#67

1,3,5-Trichlorobenzene

Concen: 55.253 ug/L

RT: 13.29 min Scan# 3793

Delta R.T. 0.62 min

Lab File: VV015182.D

Acq: 26 Mar 2020 22:12

Tgt Ion: 180 Resp: 307075

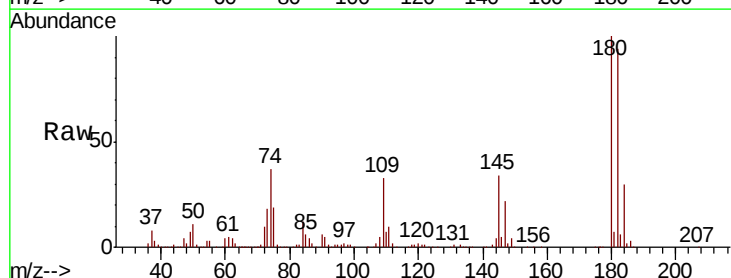
Ion Ratio Lower Upper

180 100

182 94.9 76.6 114.8

184 30.1 24.2 36.4

145 34.6 27.6 41.4



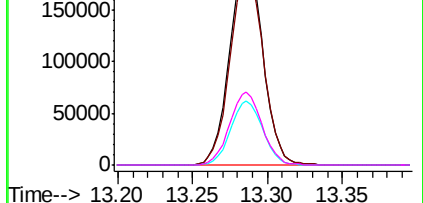
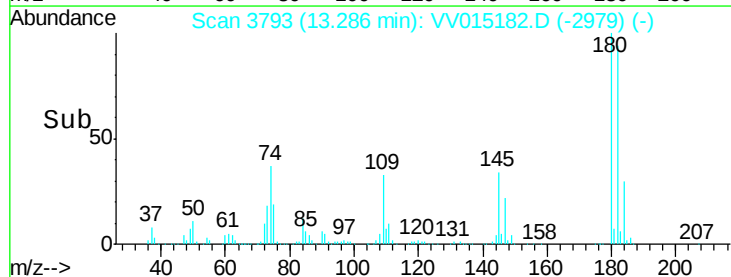
Abundance Ion 180.00 (179.70 to 180.70): VV015182.D (-2979) (-)

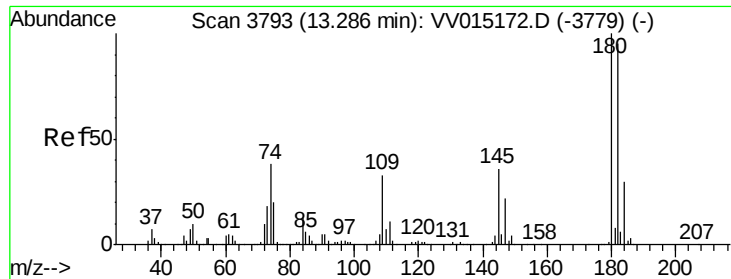
Ion 182.00 (181.70 to 182.70): VV015182.D (-2979) (-)

Ion 184.00 (183.70 to 184.70): VV015182.D (-2979) (-)

Ion 145.00 (144.70 to 145.70): VV015182.D (-2979) (-)

Time--> 13.20 13.25 13.30 13.35

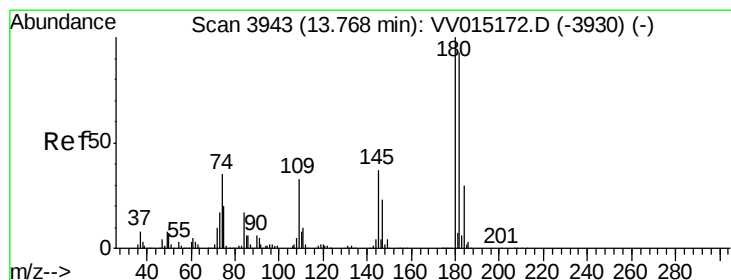
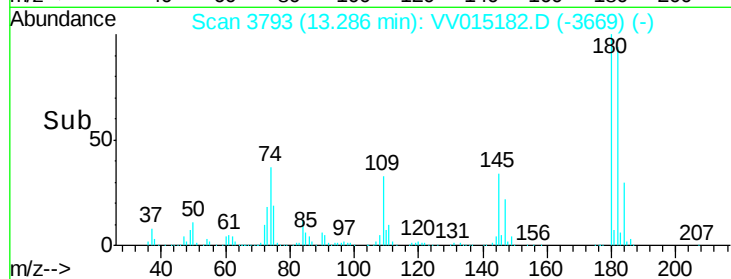
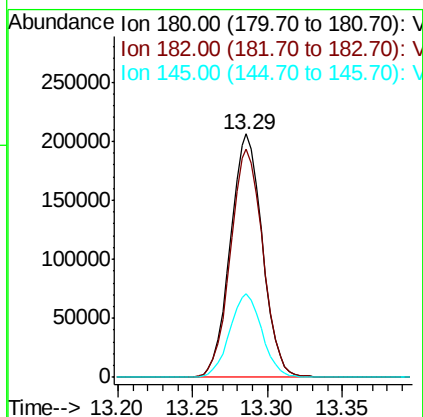
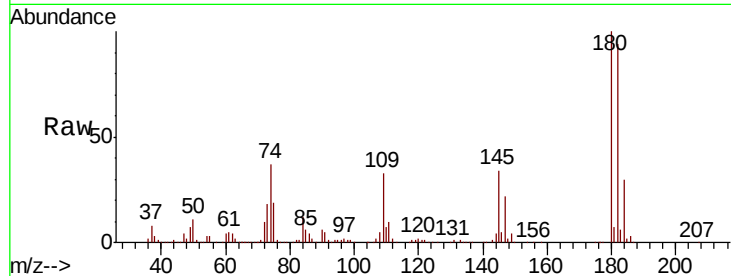




#68
 1,2,4-trichlorobenzene
 Concen: 57.927 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. -0.00 min
 Lab File: VV015182.D
 Acq: 26 Mar 2020 22:12

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.2	112.8
145	34.6	27.5	41.3



#70
 1,2,3-Trichlorobenzene
 Concen: 16.366 ug/L
 RT: 13.77 min Scan# 3943
 Delta R.T. -0.00 min
 Lab File: VV015182.D
 Acq: 26 Mar 2020 22:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.5	74.6	112.0
145	36.6	29.9	44.9

