

Data File : VV012847.D
Acq On : 16 Sep 2019 20:29
Operator : SY/MD
Sample : K4834-01
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C0MD4

Quant Time: Sep 17 07:26:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR091619WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Sep 17 07:22:21 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	391345	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	383722	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	143649	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	118524	4.37	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.40%
7) Chloroethane-d5	1.58	69	98490	4.64	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.80%
11) 1,1-Dichloroethene-d2	2.13	63	156824	3.49	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.80%
20) 2-Butanone-d5	3.98	46	238589	63.69	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	127.38%
24) Chloroform-d	4.40	84	195846	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
26) 1,2-Dichloroethane-d4	5.08	65	100559	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.60%
32) Benzene-d6	5.09	84	398416	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.00%
36) 1,2-Dichloropropane-d6	6.12	67	123745	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.00%
41) Toluene-d8	7.36	98	310267	4.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.40%
43) trans-1,3-Dichloropropene-	7.66	79	37931	4.60	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.00%
46) 2-Hexanone-d5	8.14	63	106811	46.22	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.44%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	68810	4.91	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	104831	5.26	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.20%

Target Compounds

						Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	2071	0.089	ug/L #	20
12) 1,1-Dichloroethene	2.13	96	2397	0.112	ug/L #	1
14) Carbon disulfide	2.31	76	2869	0.062	ug/L #	71
25) Chloroform	4.42	83	17495	0.326	ug/L	100
27) 1,2-Dichloroethane	5.09	62	2236	0.080	ug/L	95
31) Carbon tetrachloride	4.87	117	22031	0.659	ug/L	94
35) Methylcyclohexane	6.11	83	29296	0.862	ug/L #	17
37) 1,2-Dichloropropane	6.12	63	12973	0.497	ug/L #	85
44) trans-1,3-Dichloropropene	7.67	75	1676	0.065	ug/L	90
48) 2-Hexanone	8.19	43	43304	3.938	ug/L #	88
63) 1,4-Dichlorobenzene	11.31	146	3981	0.094	ug/L #	89
65) 1,2-Dichlorobenzene	11.69	146	3264	0.082	ug/L #	92
67) 1,3,5-Trichlorobenzene	12.69	180	2388	0.076	ug/L	94
68) 1,2,4-trichlorobenzene	13.31	180	2758	0.116	ug/L #	94
69) Naphthalene	13.56	128	5969	0.176	ug/L	94
70) 1,2,3-Trichlorobenzene	13.79	180	2653	0.115	ug/L	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV091619\
Quantitation Report (Not Reviewed)

Data File : VV012847.D
Acq On : 16 Sep 2019 20:29
Operator : SY/MD
Sample : K4834-01
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C0MD4

Quant Time: Sep 17 07:26:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR091619WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Sep 17 07:22:21 2019
Response via : Initial Calibration

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

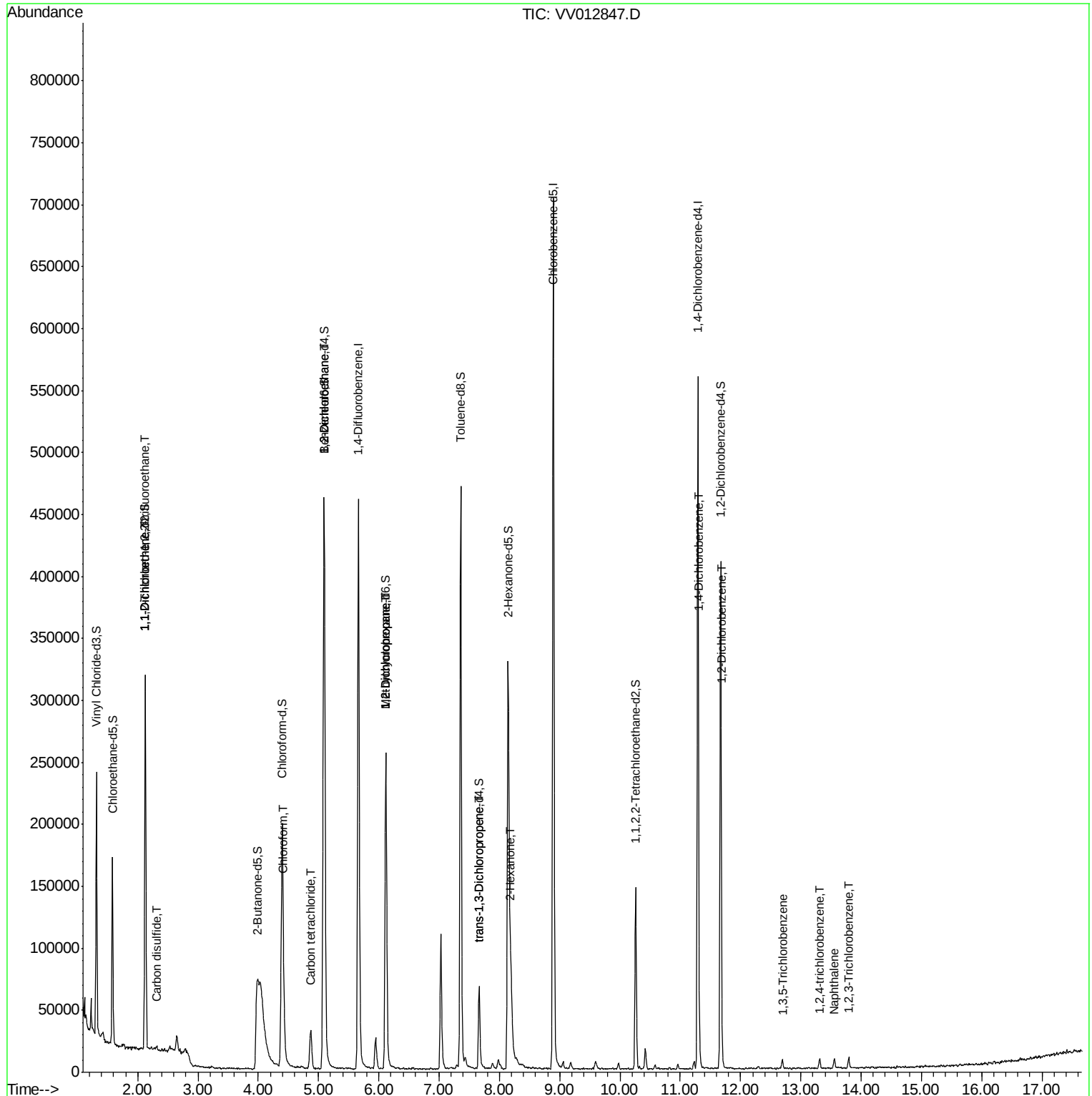
(#) = qualifier out of range (m) = manual integration (+) = signals summed

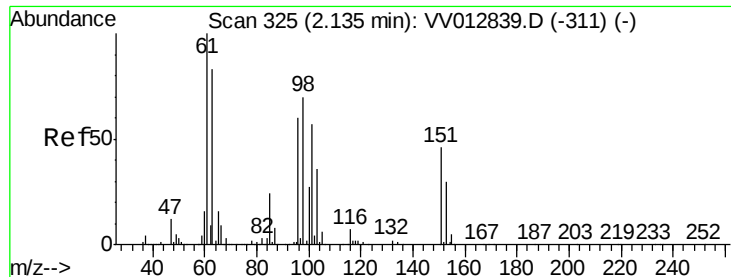
Data File : VV012847.D

```
Acq On       : 16 Sep 2019   20:29
Operator     : SY/MD
Sample       : K4834-01
Misc         : 25.0mL/MSVOA_V/WATER
ALS Vial     : 26   Sample Multiplier: 1
```

Instrument :
MSVOA_V
ClientSampleId :
C0MD4

Quant Time: Sep 17 07:26:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR091619WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Sep 17 07:22:21 2019
Response via : Initial Calibration





#10

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

Concen: 0.089 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV012847.D

Acq: 16 Sep 2019 20:29

Instrument :

MSVOA_V

ClientSampleId :

C0MD4

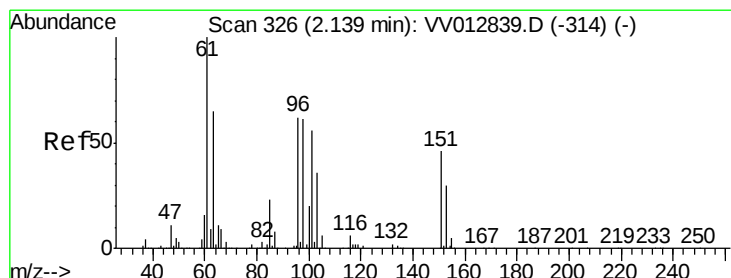
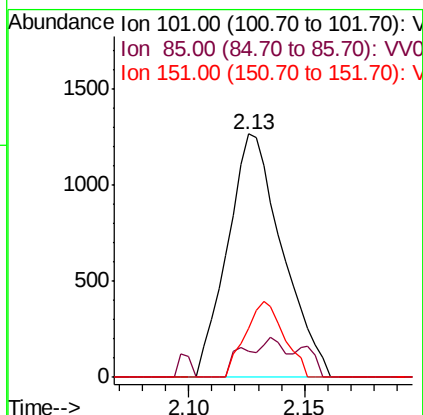
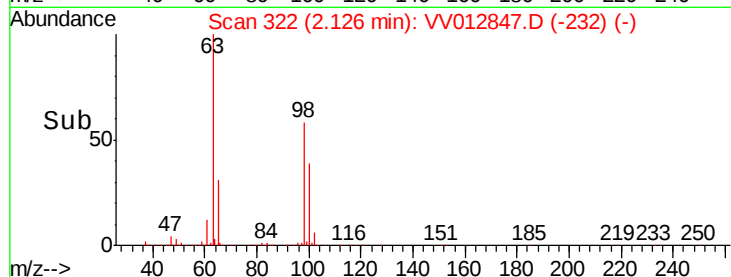
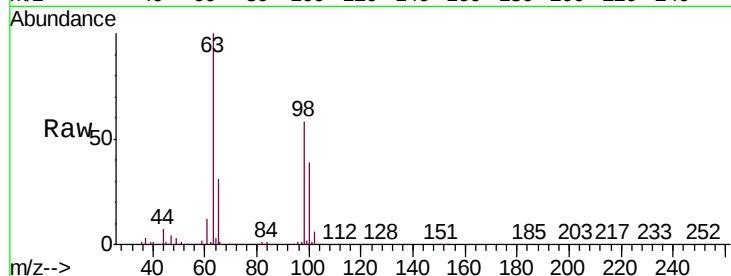
Tgt Ion: 101 Resp: 2071

Ion Ratio Lower Upper

101 100

85 5.1 32.9 49.3#

151 0.0 65.0 97.6#



#12

1,1-Dichloroethene

Concen: 0.112 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV012847.D

Acq: 16 Sep 2019 20:29

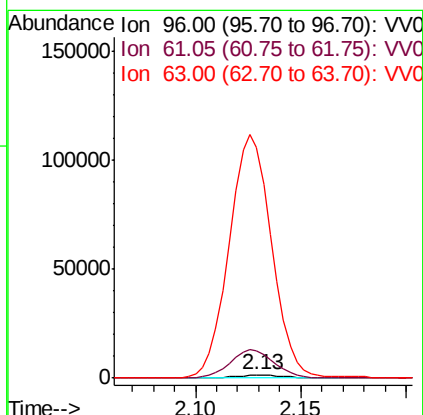
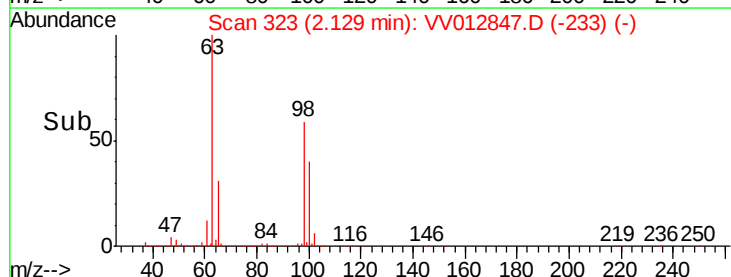
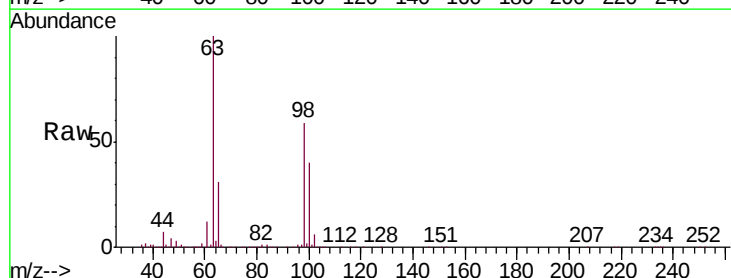
Tgt Ion: 96 Resp: 2397

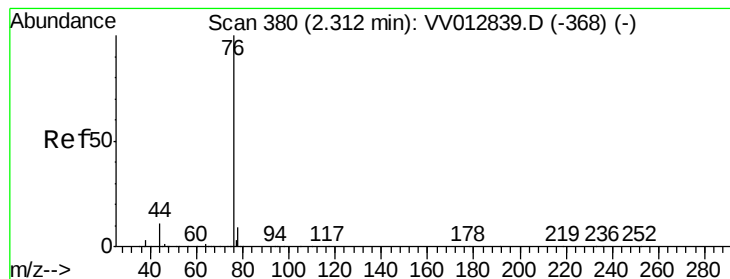
Ion Ratio Lower Upper

96 100

61 913.1 120.1 223.1#

63 7763.9 88.3 164.1#





#14

Carbon disulfide

Concen: 0.062 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV012847.D

Acq: 16 Sep 2019 20:29

Instrument :

MSVOA_V

ClientSampleId :

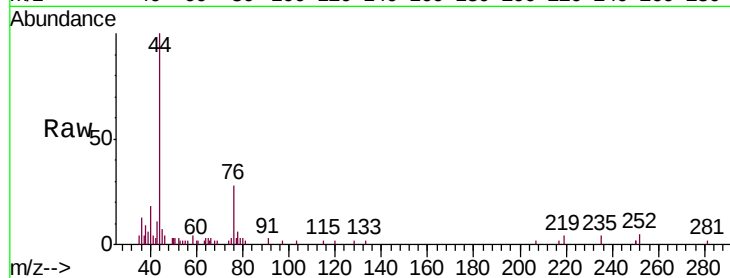
C0MD4

Tgt Ion: 76 Resp: 2869

Ion Ratio Lower Upper

76 100

78 20.3 7.6 11.4#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.31

1500

1000

500

200

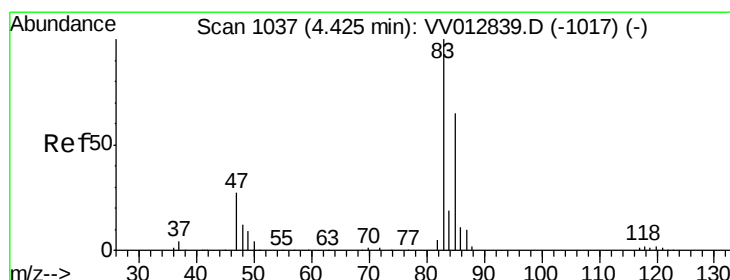
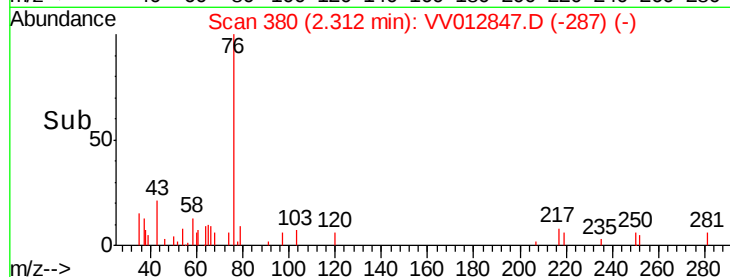
0

Time-->

2.25

2.30

2.35



#25

Chloroform

Concen: 0.326 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV012847.D

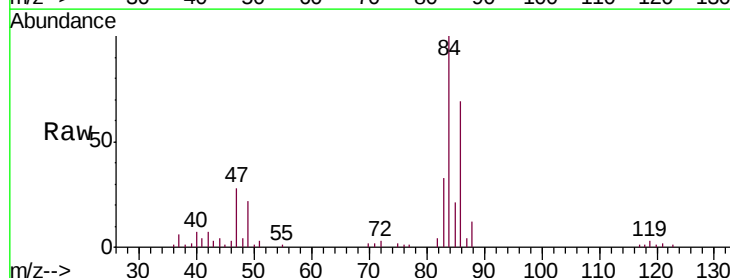
Acq: 16 Sep 2019 20:29

Tgt Ion: 83 Resp: 17495

Ion Ratio Lower Upper

83 100

85 63.5 44.4 82.5



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0

4.42

8000

6000

4000

2000

0

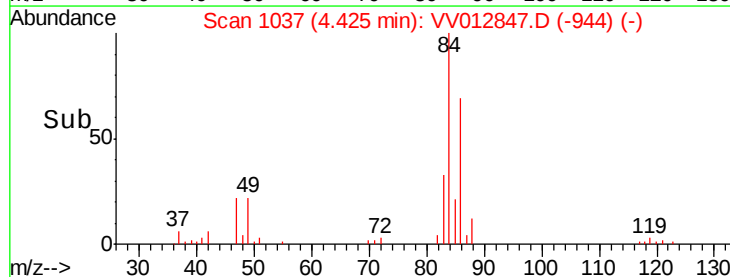
Time-->

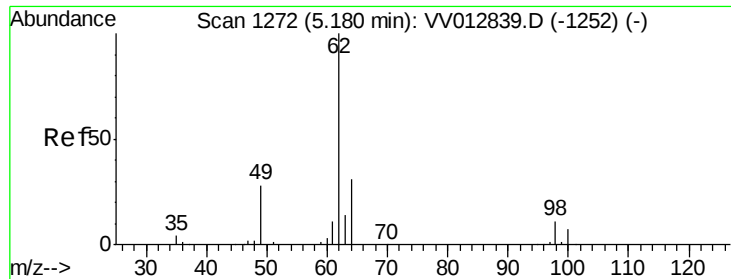
4.35

4.40

4.45

4.50





#27

1,2-Dichloroethane

Concen: 0.080 ug/L

RT: 5.09 min Scan# 1244

Delta R.T. -0.09 min

Lab File: VV012847.D

Acq: 16 Sep 2019 20:29

Instrument :

MSVOA_V

ClientSampleId :

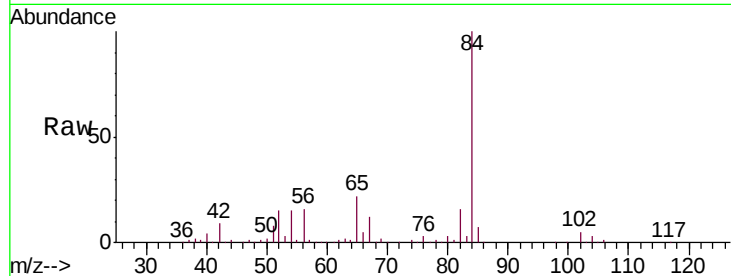
C0MD4

Tgt Ion: 62 Resp: 2236

Ion Ratio Lower Upper

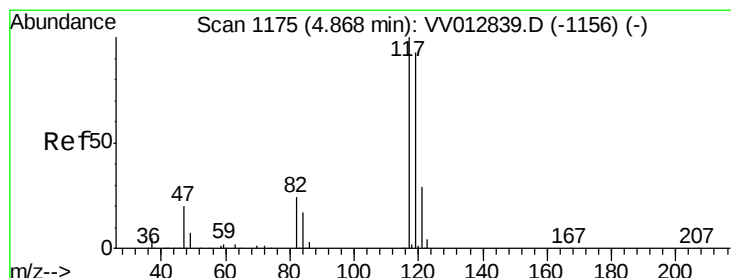
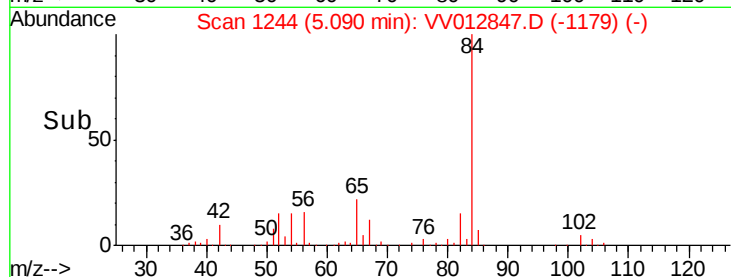
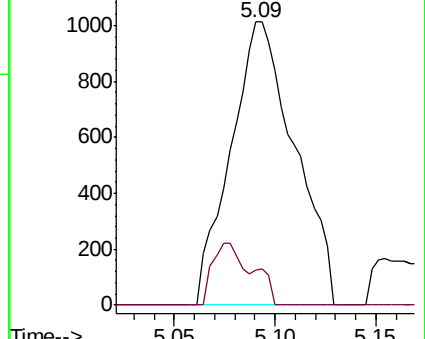
62 100

98 12.5 8.3 12.5



Abundance Ion 62.00 (61.70 to 62.70): VV012839.D (-1252) (-)

Ion 98.05 (97.75 to 98.75): VV012839.D (-1252) (-)



#31

Carbon tetrachloride

Concen: 0.659 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV012847.D

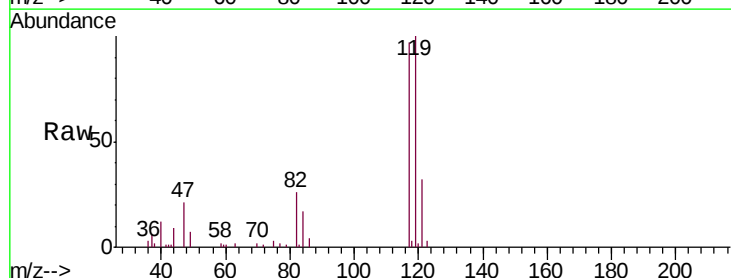
Acq: 16 Sep 2019 20:29

Tgt Ion: 117 Resp: 22031

Ion Ratio Lower Upper

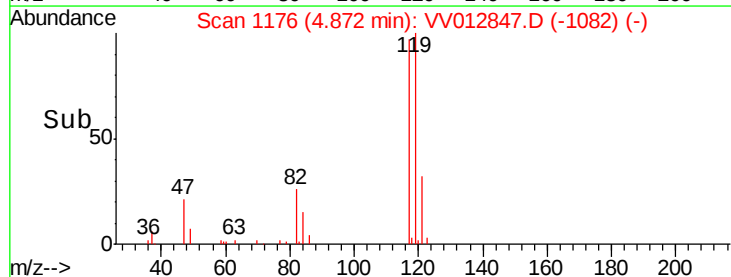
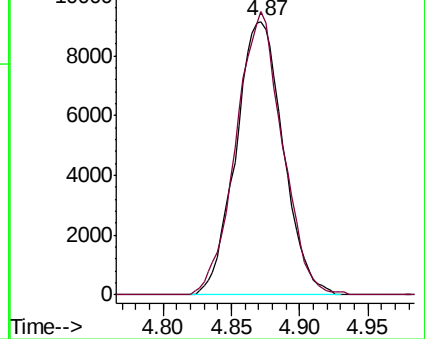
117 100

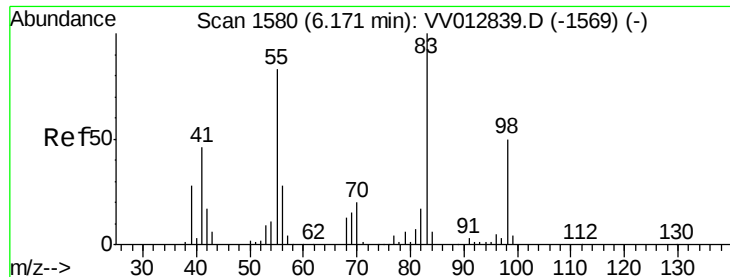
119 101.6 76.4 114.6



Abundance Ion 116.90 (116.60 to 117.60): VV012839.D (-1156) (-)

Ion 118.90 (118.60 to 119.60): VV012839.D (-1156) (-)

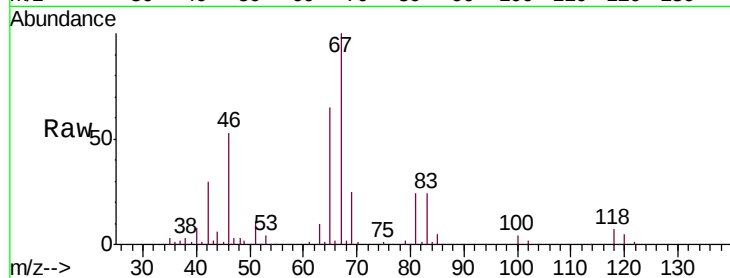




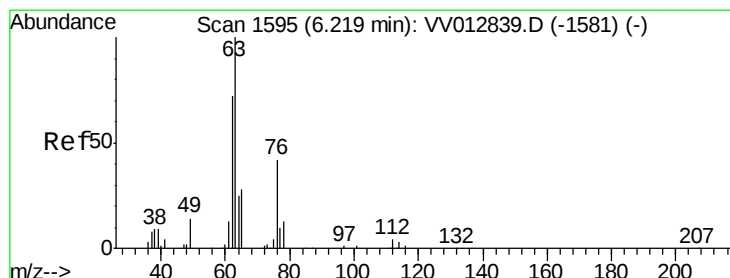
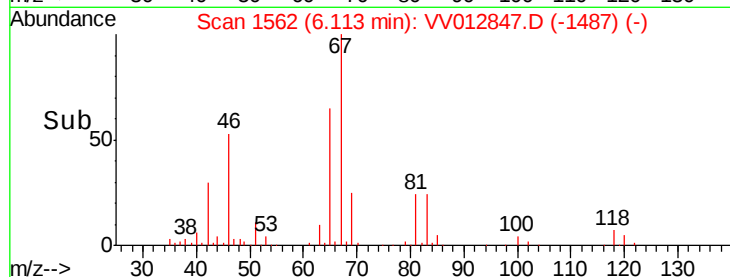
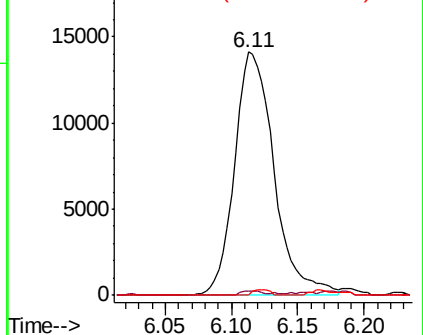
#35
Methylcyclohexane
Concen: 0.862 ug/L
RT: 6.11 min Scan# 1562
Delta R.T. -0.06 min
Lab File: VV012847.D
Acq: 16 Sep 2019 20:29

Instrument :
MSVOA_V
ClientSampled :
C0MD4

Tgt Ion: 83 Resp: 29296
Ion Ratio Lower Upper
83 100
55 1.0 65.4 98.2#
98 0.9 39.0 58.4#

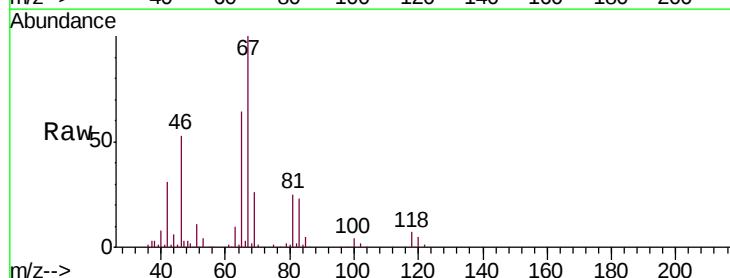


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

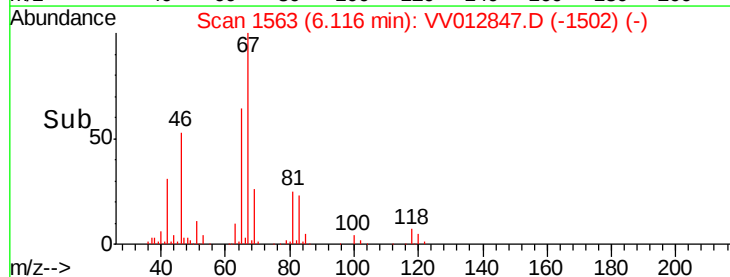
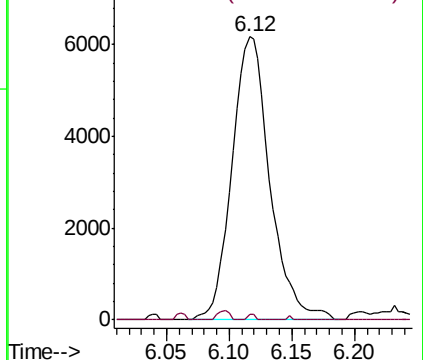


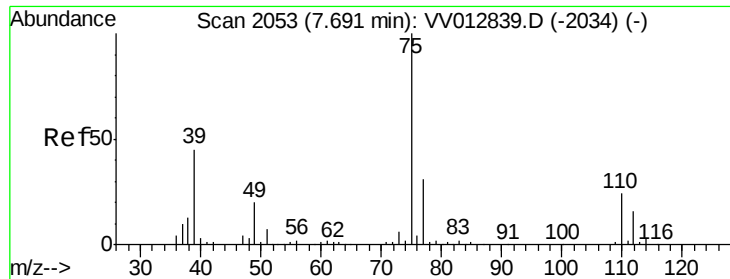
#37
1,2-Dichloropropane
Concen: 0.497 ug/L
RT: 6.12 min Scan# 1563
Delta R.T. -0.10 min
Lab File: VV012847.D
Acq: 16 Sep 2019 20:29

Tgt Ion: 63 Resp: 12973
Ion Ratio Lower Upper
63 100
112 0.3 4.2 6.2#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V





#44

trans-1,3-Dichloropropene

Concen: 0.065 ug/L

RT: 7.67 min Scan# 2045

Delta R.T. -0.03 min

Lab File: VV012847.D

Acq: 16 Sep 2019 20:29

Instrument :

MSVOA_V

ClientSampleId :

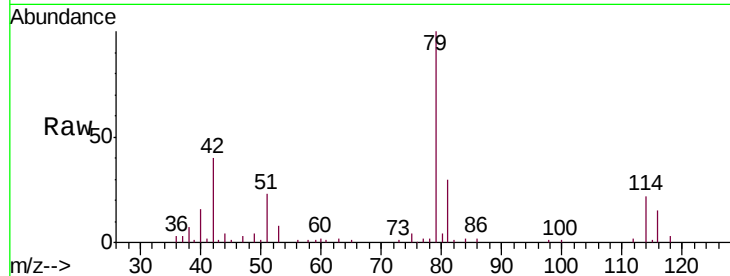
C0MD4

Tgt Ion: 75 Resp: 1676

Ion Ratio Lower Upper

75 100

77 37.2 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

7.67

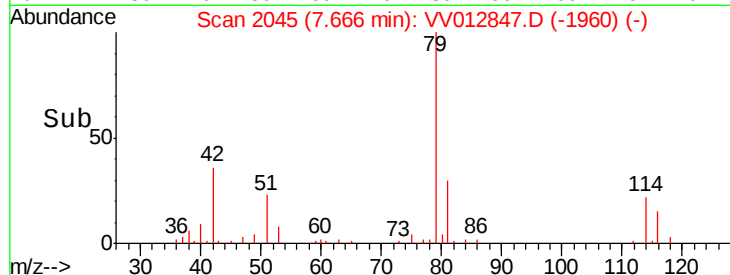
7.67

7.67

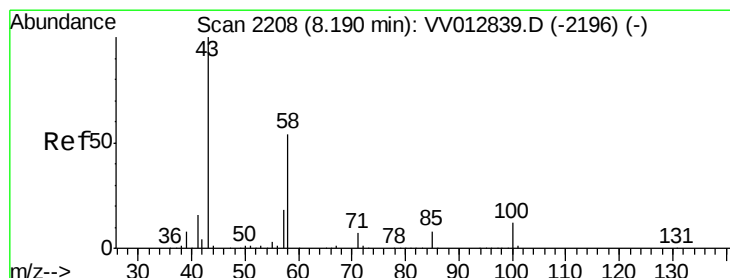
7.67

7.67

7.67



Time-->



#48

2-Hexanone

Concen: 3.938 ug/L

RT: 8.19 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VV012847.D

Acq: 16 Sep 2019 20:29

Tgt Ion: 43 Resp: 43304

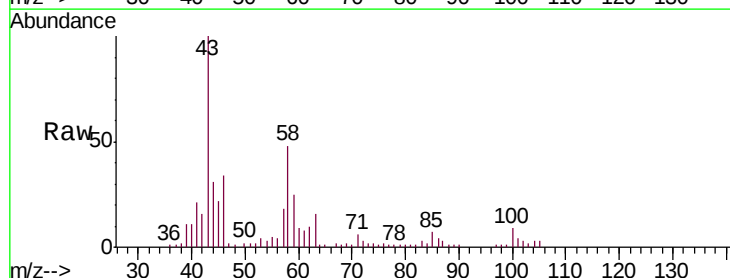
Ion Ratio Lower Upper

43 100

58 43.9 44.8 67.2#

57 17.1 15.0 22.6

100 9.7 8.8 13.2



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

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

8.19

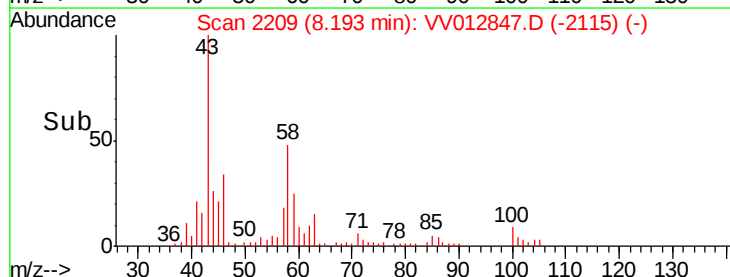
8.19

8.19

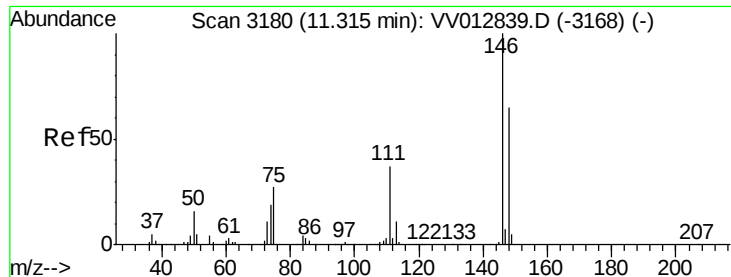
8.19

8.19

8.19



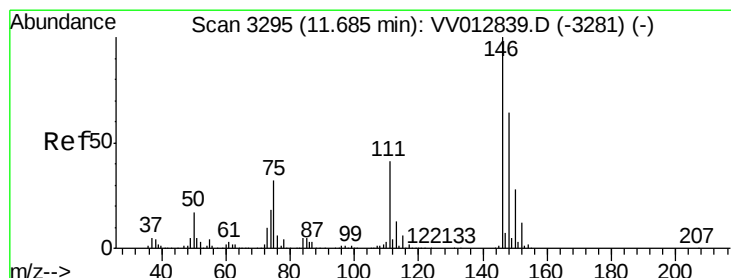
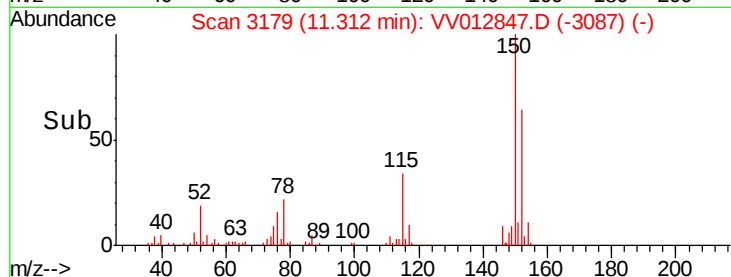
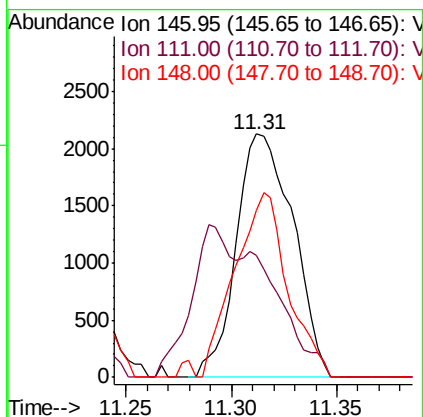
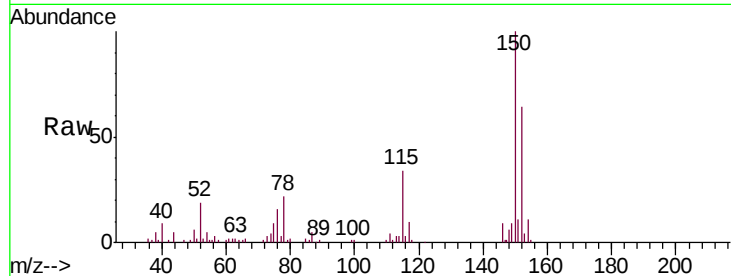
Time-->



#63
1,4-Dichlorobenzene
Concen: 0.094 ug/L
RT: 11.31 min Scan# 3179
Delta R.T. -0.00 min
Lab File: VV012847.D
Acq: 16 Sep 2019 20:29

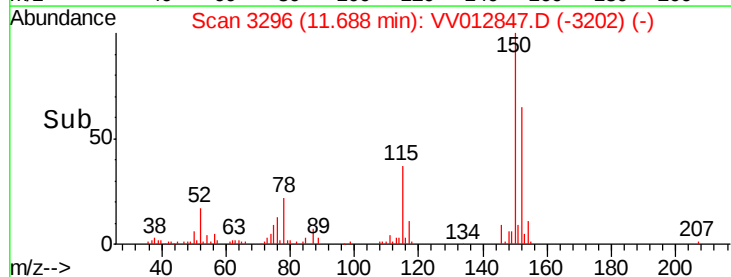
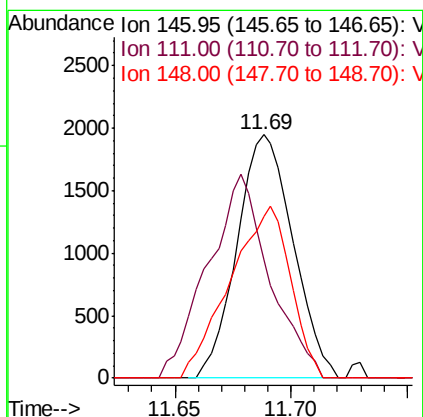
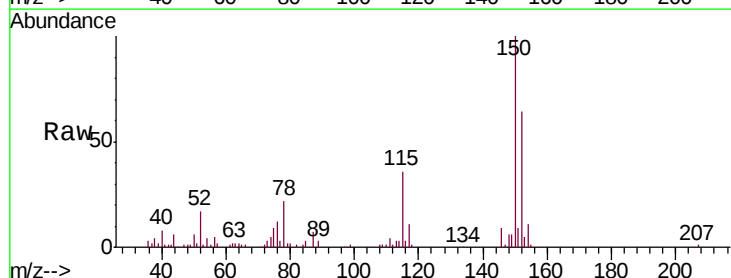
Instrument :
MSVOA_V
ClientSampled :
C0MD4

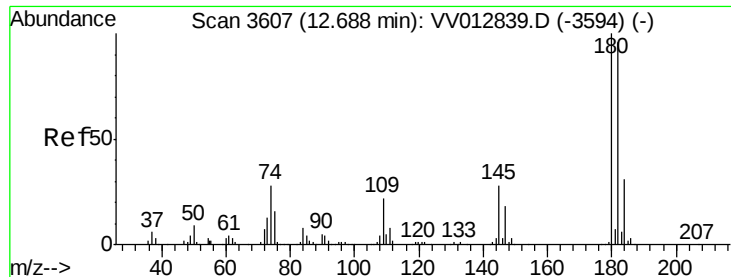
Tgt Ion:146 Resp: 3981
Ion Ratio Lower Upper
146 100
111 50.0 26.6 49.4#
148 68.7 45.0 83.6



#65
1,2-Dichlorobenzene
Concen: 0.082 ug/L
RT: 11.69 min Scan# 3296
Delta R.T. 0.00 min
Lab File: VV012847.D
Acq: 16 Sep 2019 20:29

Tgt Ion:146 Resp: 3264
Ion Ratio Lower Upper
146 100
111 48.7 31.4 47.2#
148 66.5 50.6 75.8

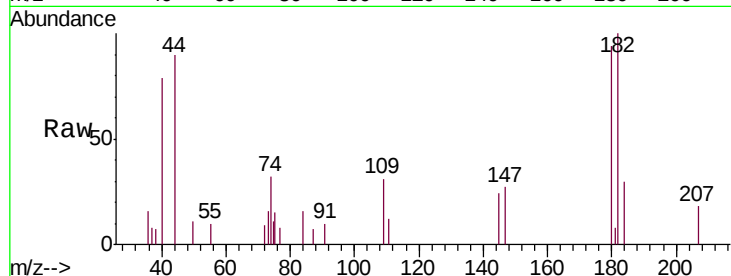




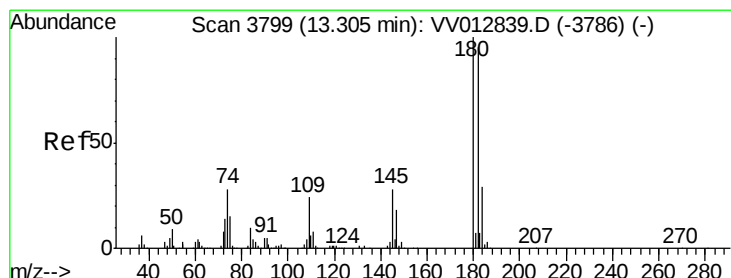
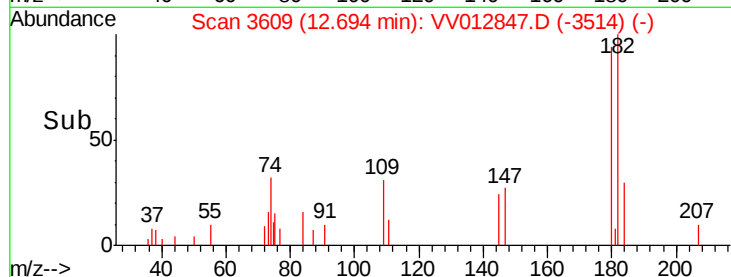
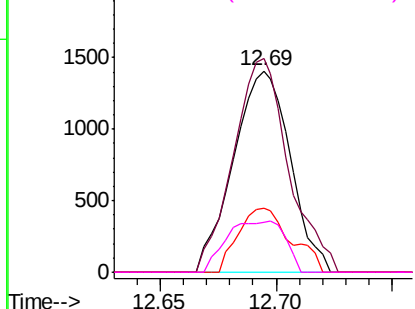
#67
 1,3,5-Trichlorobenzene
 Concen: 0.076 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.01 min
 Lab File: VV012847.D
 Acq: 16 Sep 2019 20:29

Instrument :
 MSVOA_V
 ClientSampleId :
 C0MD4

Tgt Ion:180 Resp: 2388
 Ion Ratio Lower Upper
 180 100
 182 103.5 76.7 115.1
 184 29.5 24.4 36.6
 145 26.2 22.3 33.5

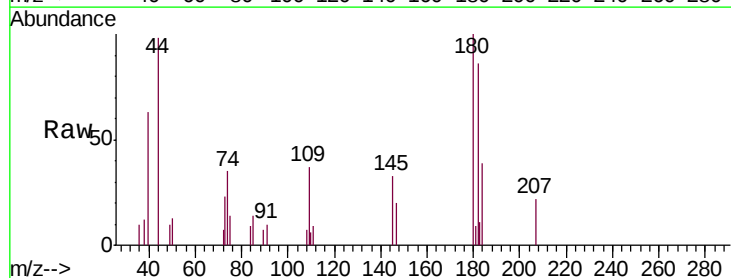


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

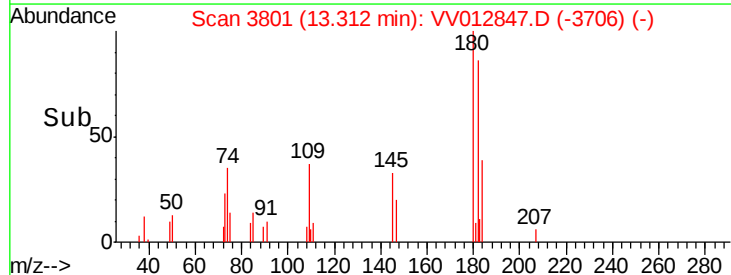
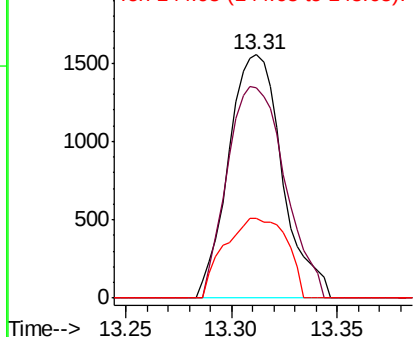


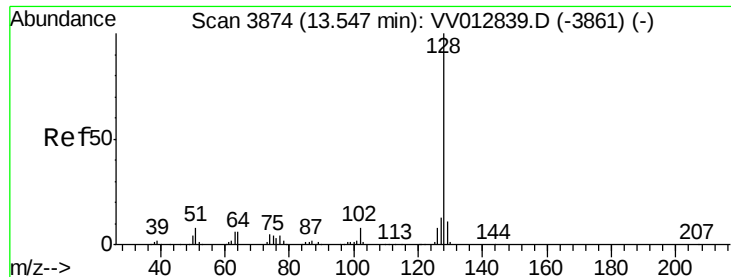
#68
 1,2,4-trichlorobenzene
 Concen: 0.116 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.01 min
 Lab File: VV012847.D
 Acq: 16 Sep 2019 20:29

Tgt Ion:180 Resp: 2758
 Ion Ratio Lower Upper
 180 100
 182 92.9 76.2 114.4
 145 37.6 22.2 33.4#



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.176 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.01 min

Lab File: VV012847.D

Acq: 16 Sep 2019 20:29

Instrument :

MSVOA_V

ClientSampleId :

C0MD4

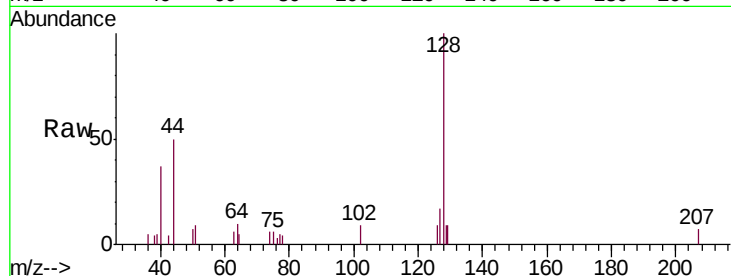
Tgt Ion:128 Resp: 5969

Ion Ratio Lower Upper

128 100

129 12.4 8.3 12.5

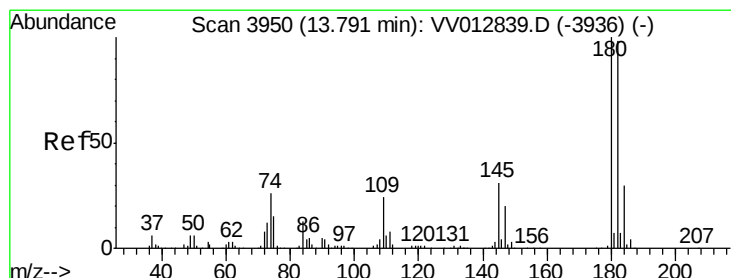
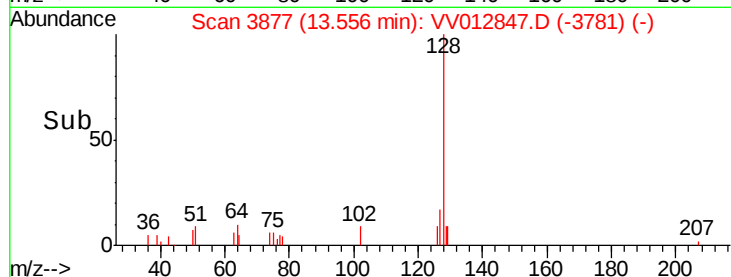
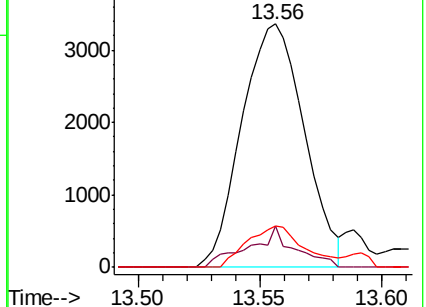
127 15.4 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.115 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV012847.D

Acq: 16 Sep 2019 20:29

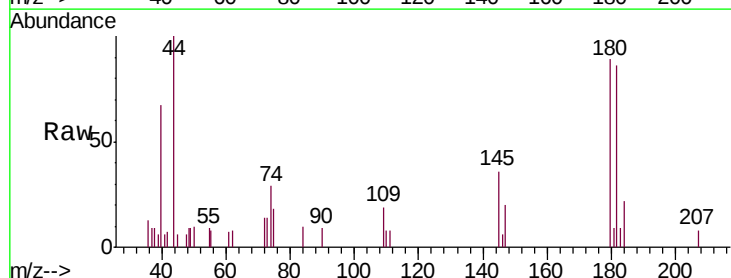
Tgt Ion:180 Resp: 2653

Ion Ratio Lower Upper

180 100

182 99.0 76.2 114.4

145 35.4 24.9 37.3



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

