

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042820\
 Data File : VV015754.D
 Acq On : 28 Apr 2020 18:26
 Operator : SY/MD
 Sample : L2421-09
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 29 00:45:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR042220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Apr 29 00:40:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	129463	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	124734	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	58634	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	27027	4.00	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.00%
7) Chloroethane-d5	1.58	69	27677	4.24	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.80%
11) 1,1-Dichloroethene-d2	2.13	63	76345	5.16	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	103.20%
20) 2-Butanone-d5	3.92	46	120169	55.32	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.64%
24) Chloroform-d	4.38	84	74711	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.80%
26) 1,2-Dichloroethane-d4	5.06	65	43564	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%
32) Benzene-d6	5.08	84	137346	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.20%
36) 1,2-Dichloropropane-d6	6.10	67	45388	4.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.40%
41) Toluene-d8	7.34	98	123646	4.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.40%
43) trans-1,3-Dichloropropene-	7.64	79	14854	4.04	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.80%
46) 2-Hexanone-d5	8.11	63	80243	44.73	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.46%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	34891	4.93	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.60%
64) 1,2-Dichlorobenzene-d4	11.65	152	48151	4.83	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.60%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	338188	33.007 ug/L	99
8) Chloroethane	1.46	64	7404	1.100 ug/L #	53
12) 1,1-Dichloroethene	2.13	96	55943	7.424 ug/L	90
13) Acetone	2.20	43	2372	1.572 ug/L	93
14) Carbon disulfide	2.31	76	1066	0.050 ug/L #	66
17) Methyl tert-butyl Ether	2.79	73	52950	2.503 ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	12972	1.538 ug/L	97
19) 1,1-Dichloroethane	3.21	63	521948	31.507 ug/L	99
22) cis-1,2-Dichloroethene	3.94	96	10030933	1075.320 ug/L #	97
25) Chloroform	4.41	83	3442	0.196 ug/L	93
29) 1,1,1-Trichloroethane	4.64	97	709341	44.843 ug/L	99
31) Carbon tetrachloride	4.64	117	84333	6.438 ug/L	97
34) Trichloroethene	5.95	95	13460708	1367.719 ug/L	97
35) Methylcyclohexane	6.10	83	11059	0.732 ug/L #	18
37) 1,2-Dichloropropane	6.10	63	5669	0.626 ug/L #	86
44) trans-1,3-Dichloropropene	7.65	75	855	0.081 ug/L #	42
47) Tetrachloroethene	8.00	164	4071	0.574 ug/L	95

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Apr 29 00:40:59 2020
Response via : Initial Calibration

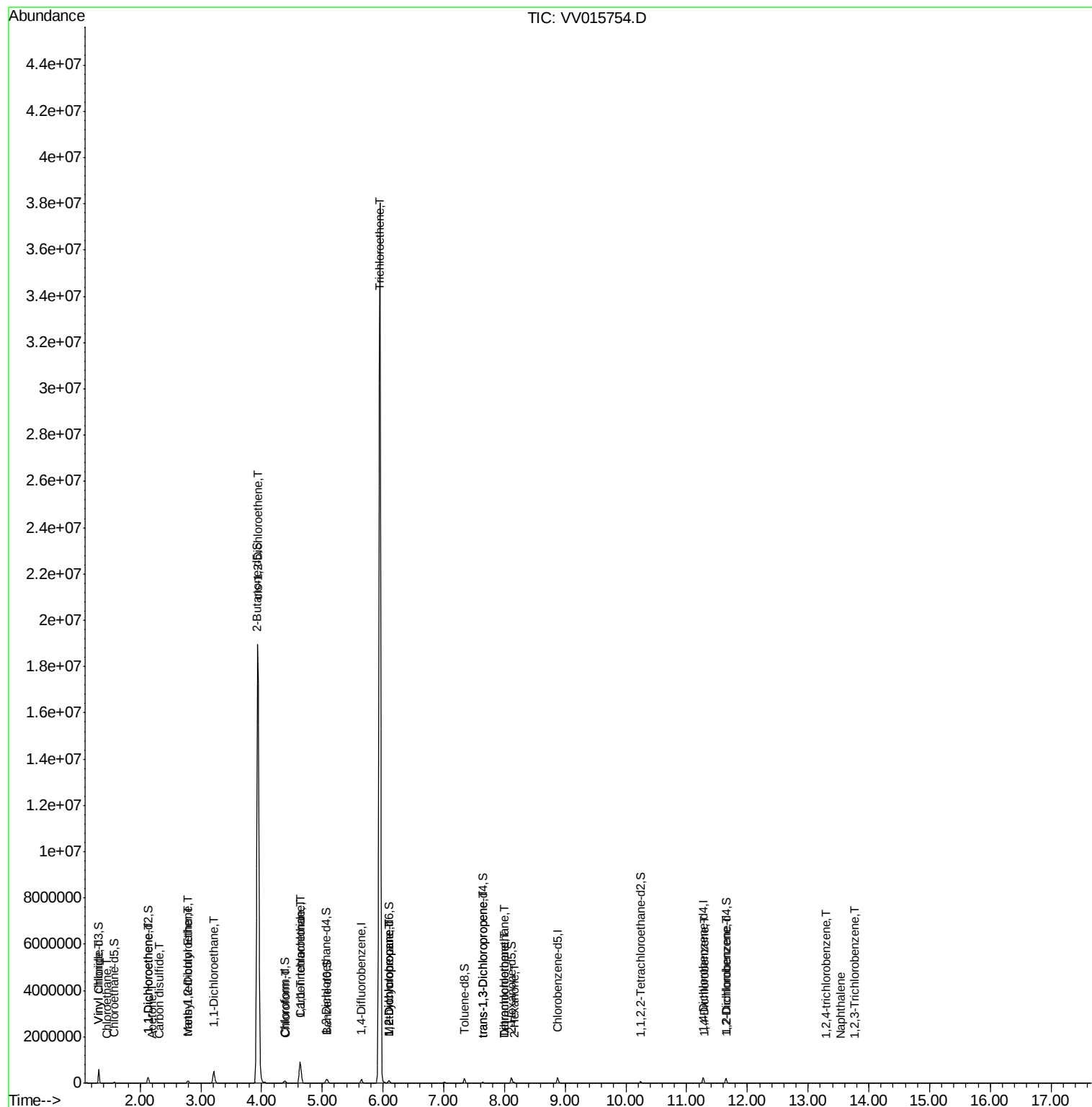
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.17	43	4692	1.119	ug/L #	83
49) Dibromochloromethane	8.00	129	3720	0.582	ug/L #	12
63) 1,4-Dichlorobenzene	11.30	146	1737	0.093	ug/L	89
65) 1,2-Dichlorobenzene	11.67	146	2185	0.130	ug/L #	92
68) 1,2,4-trichlorobenzene	13.29	180	1204	0.095	ug/L	96
69) Naphthalene	13.53	128	3110	0.138	ug/L #	92
70) 1,2,3-Trichlorobenzene	13.77	180	1090	0.098	ug/L	98

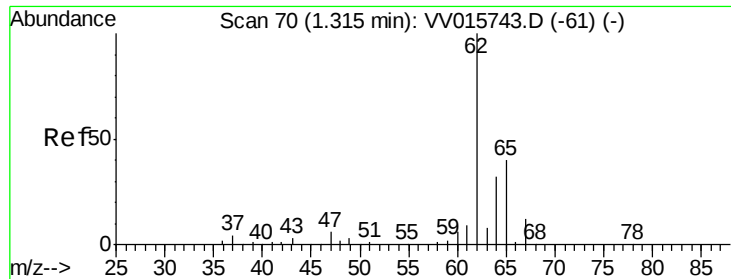
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 33.007 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV015754.D

Acq: 28 Apr 2020 18:26

Instrument :

MSVOA_V

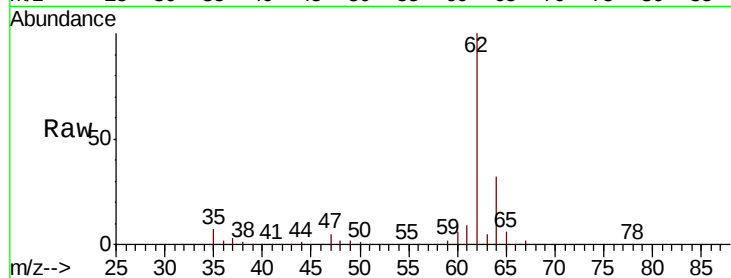
ClientSampleId :

Tot Ion: 62 Resp: 338188

Ion Ratio Lower Upper

62 100

64 31.9 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

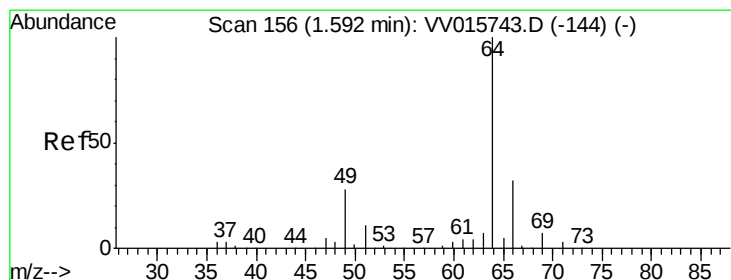
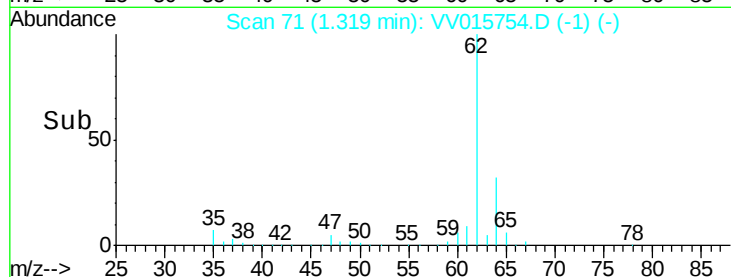
300000

200000

100000

0

Time-->



#8

Chloroethane

Concen: 1.100 ug/L

RT: 1.46 min Scan# 115

Delta R.T. -0.13 min

Lab File: VV015754.D

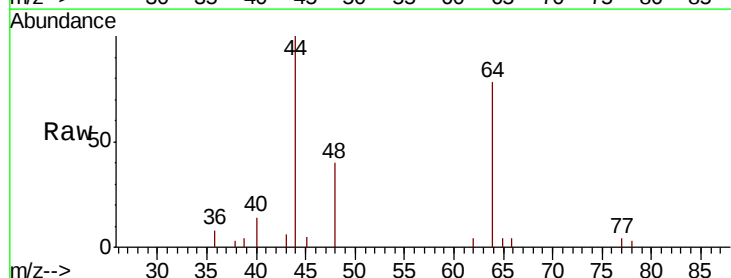
Acq: 28 Apr 2020 18:26

Tgt Ion: 64 Resp: 7404

Ion Ratio Lower Upper

64 100

66 5.7 22.3 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

1.46

3000

2500

2000

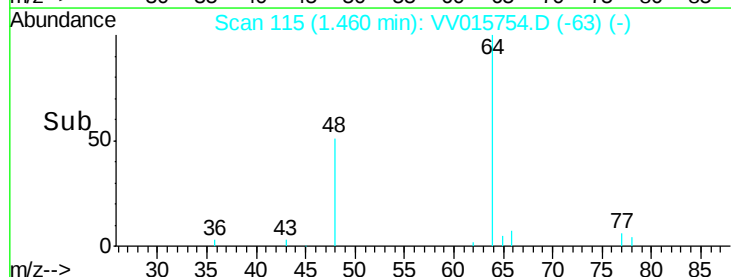
1500

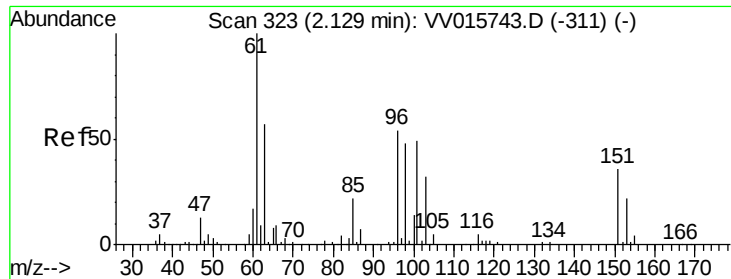
1000

500

0

Time-->





#12

1,1-Dichloroethene

Concen: 7.424 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV015754.D

Acq: 28 Apr 2020 18:26

Instrument :
MSVOA_V
ClientSampled :

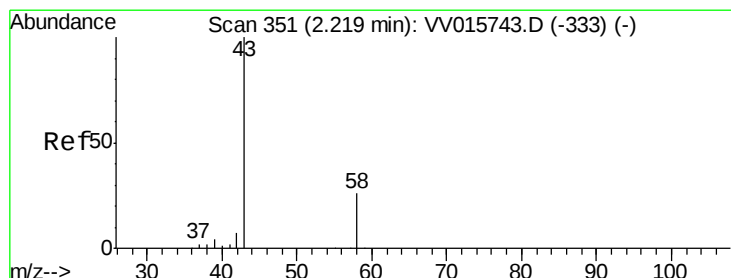
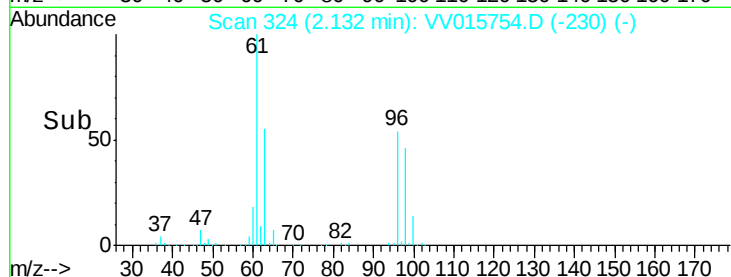
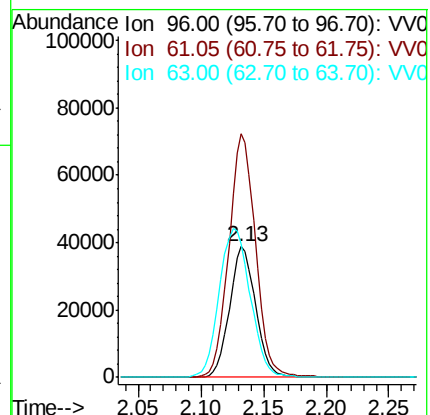
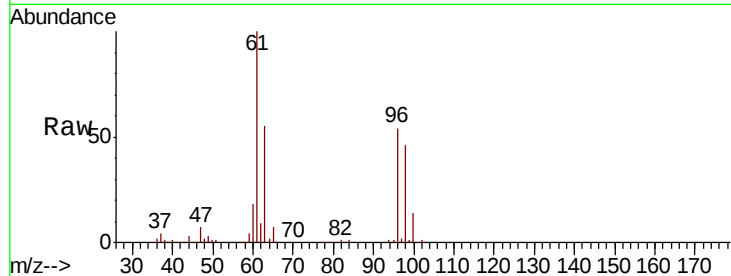
Tot Ion: 96 Resp: 55943

Ion Ratio Lower Upper

96 100

61 186.7 130.1 241.7

63 102.7 91.4 169.8



#13

Acetone

Concen: 1.572 ug/L

RT: 2.20 min Scan# 346

Delta R.T. -0.02 min

Lab File: VV015754.D

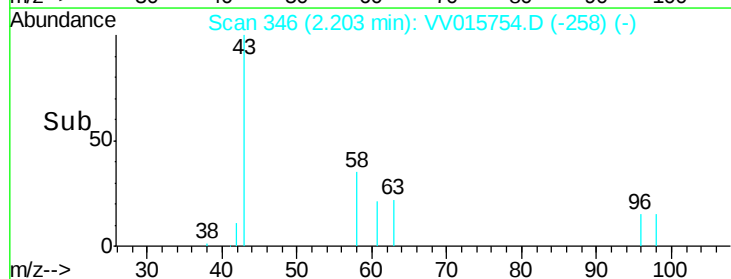
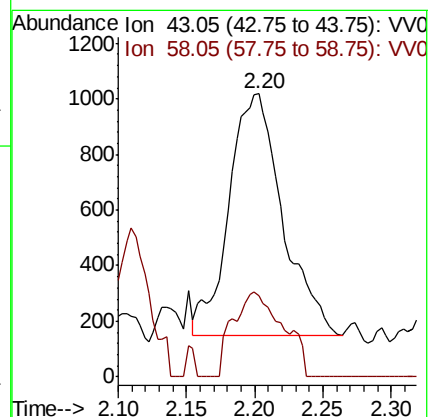
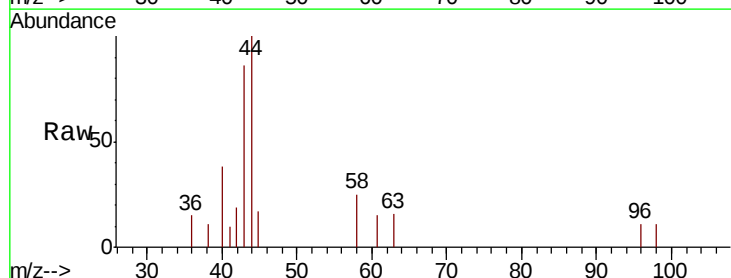
Acq: 28 Apr 2020 18:26

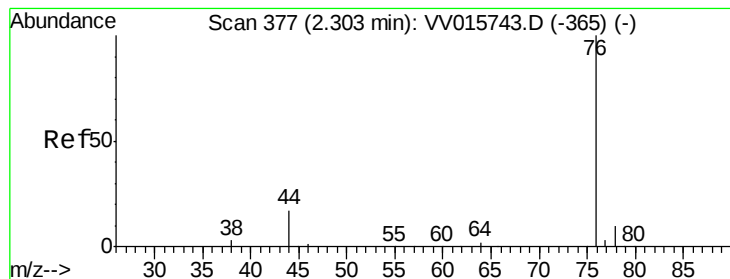
Tgt Ion: 43 Resp: 2372

Ion Ratio Lower Upper

43 100

58 32.7 0.0 57.6





#14

Carbon disulfide

Concen: 0.050 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.01 min

Lab File: VV015754.D

Acq: 28 Apr 2020 18:26

Instrument :

MSVOA_V

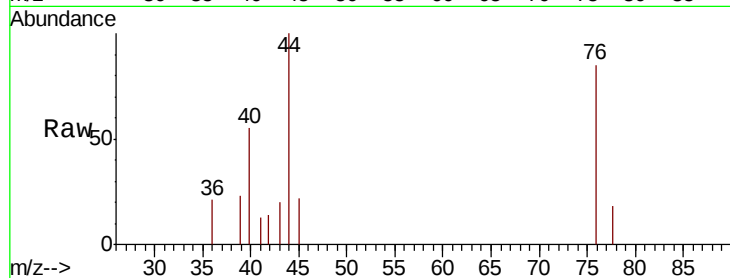
ClientSampleId :

Tot Ion: 76 Resp: 1066

Ion Ratio Lower Upper

76 100

78 21.5 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.31

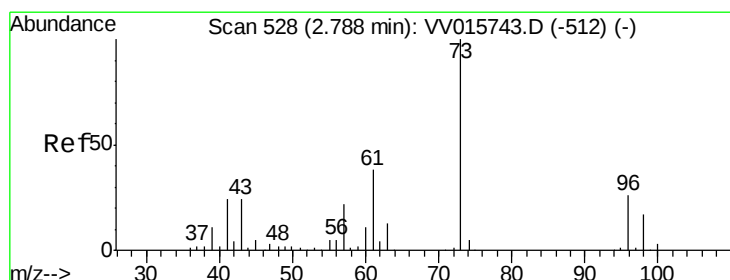
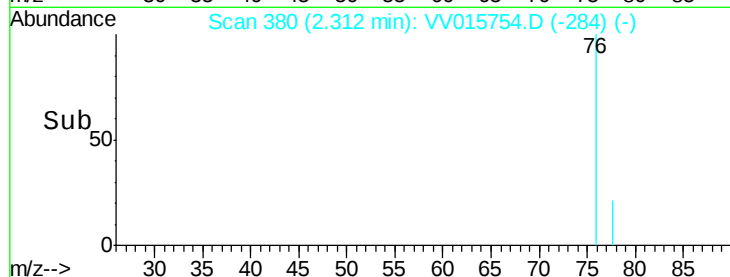
600

400

200

0

Time-->



#17

Methyl tert-butyl Ether

Concen: 2.503 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV015754.D

Acq: 28 Apr 2020 18:26

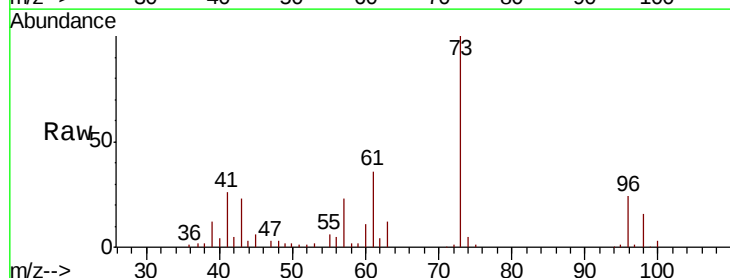
Tgt Ion: 73 Resp: 52950

Ion Ratio Lower Upper

73 100

43 24.6 20.1 30.1

57 22.9 17.8 26.8



Abundance Ion 73.10 (72.80 to 73.80): VV0

Ion 43.05 (42.75 to 43.75): VV0

Ion 57.10 (56.80 to 57.80): VV0

2.79

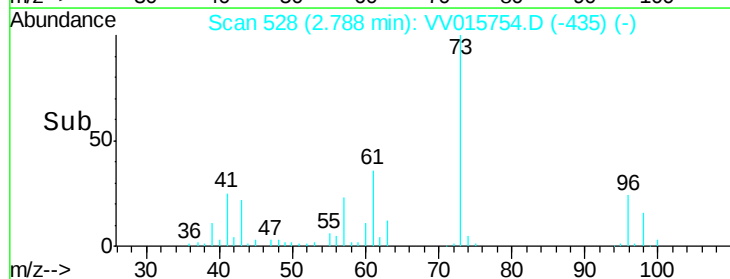
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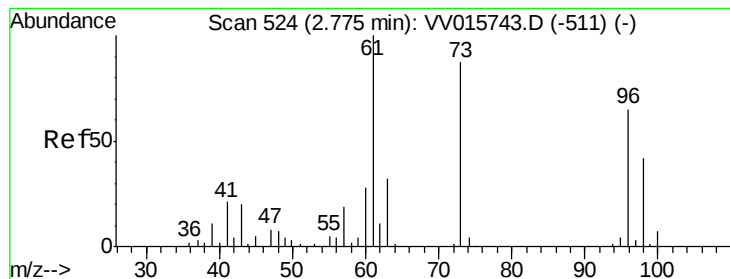
20000

10000

0

Time-->





#18

trans-1,2-Dichloroethene

Concen: 1.538 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV015754.D

Acq: 28 Apr 2020 18:26

Instrument :
MSVOA_V
ClientSampled :

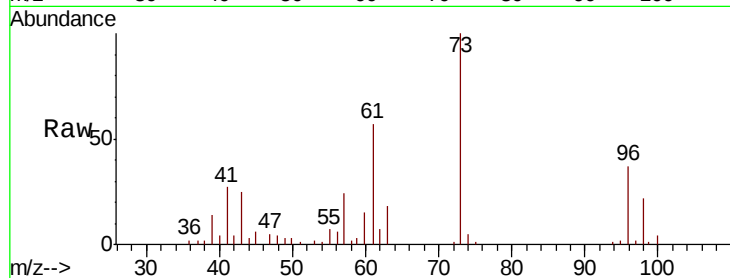
Tot Ion: 96 Resp: 12972

Ion Ratio Lower Upper

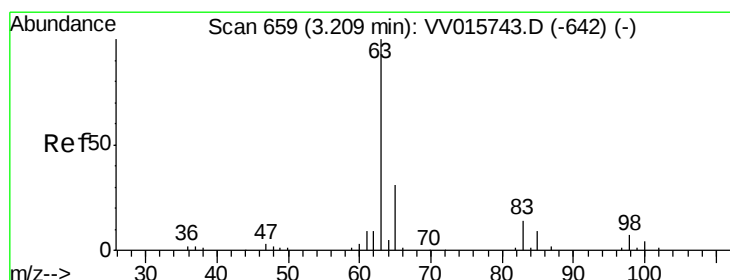
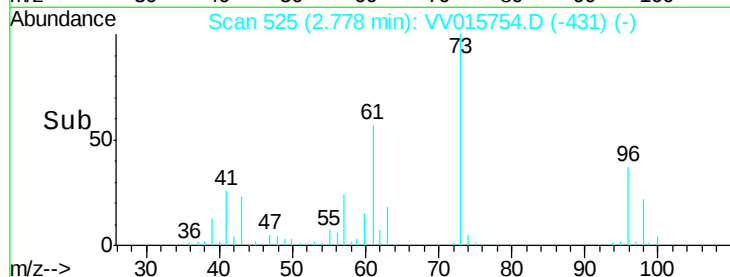
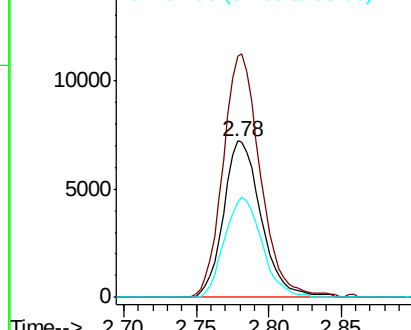
96 100

61 154.4 105.5 195.9

98 60.5 44.2 82.0



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



#19

1,1-Dichloroethane

Concen: 31.507 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV015754.D

Acq: 28 Apr 2020 18:26

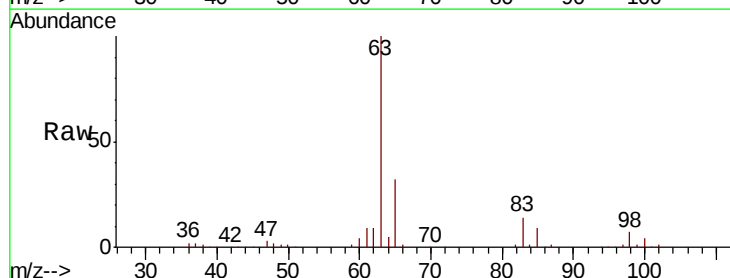
Tgt Ion: 63 Resp: 521948

Ion Ratio Lower Upper

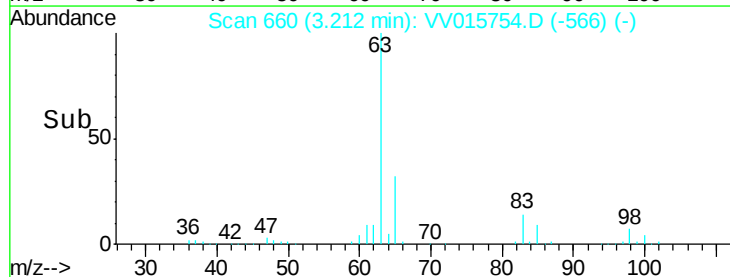
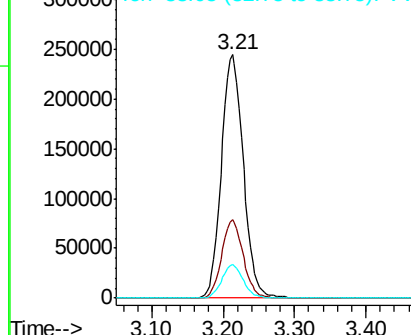
63 100

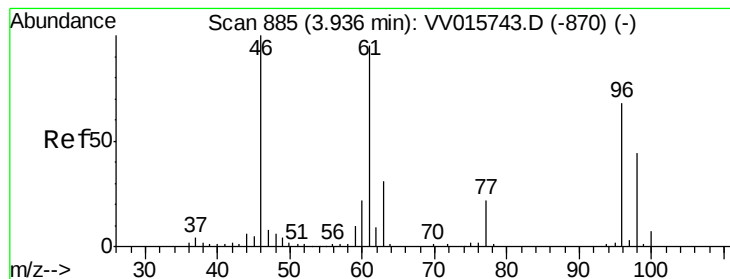
65 32.0 22.3 41.3

83 13.7 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 65.10 (64.80 to 65.80): VV0
Ion 83.05 (82.75 to 83.75): VV0



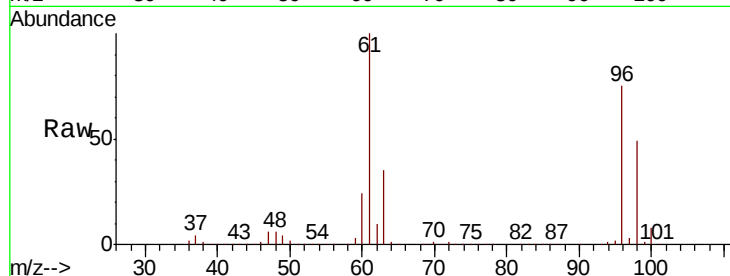


#22

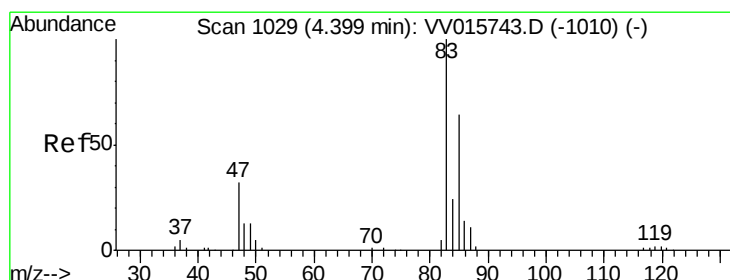
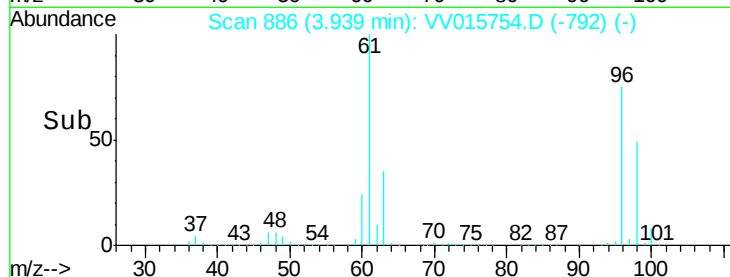
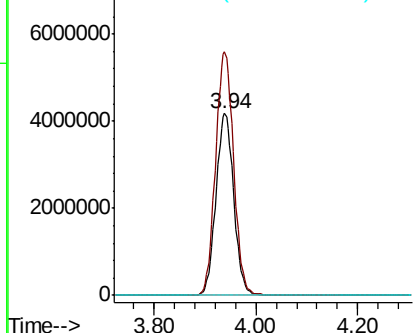
cis-1,2-Dichloroethene
 Concen: 1075.320 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV015754.D
 Acq: 28 Apr 2020 18:26

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 96 Resp:10030933
 Ion Ratio Lower Upper
 96 100
 61 133.9 96.4 179.0
 68 0.0 0.0 0.0#



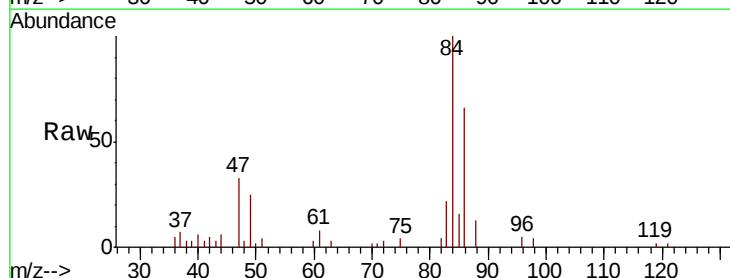
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



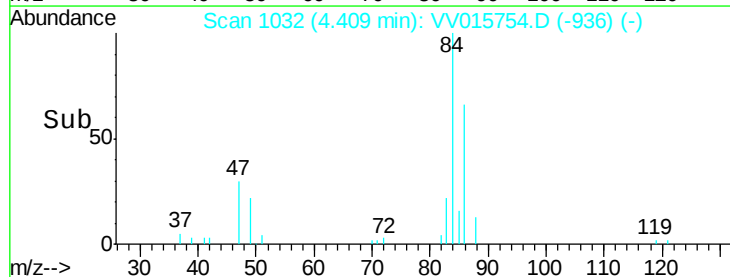
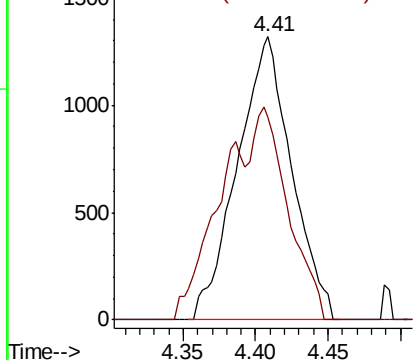
#25

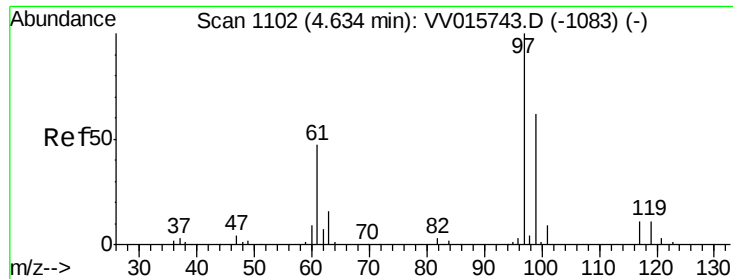
Chloroform
 Concen: 0.196 ug/L
 RT: 4.41 min Scan# 1032
 Delta R.T. 0.01 min
 Lab File: VV015754.D
 Acq: 28 Apr 2020 18:26

Tgt Ion: 83 Resp: 3442
 Ion Ratio Lower Upper
 83 100
 85 71.4 46.1 85.5



Abundance Ion 83.05 (82.75 to 83.75): VV0
 Ion 85.00 (84.70 to 85.70): VV0

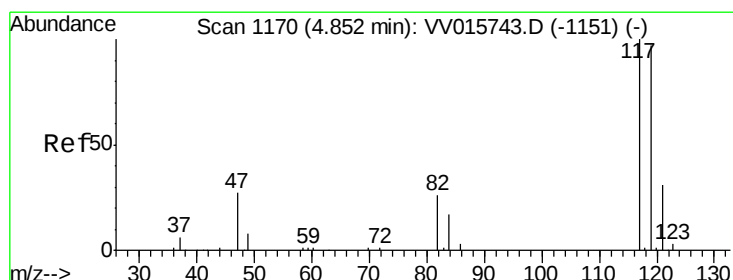
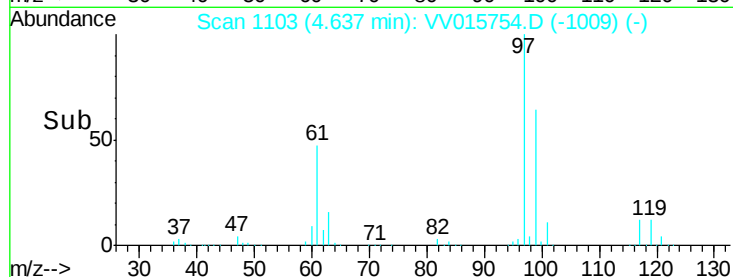
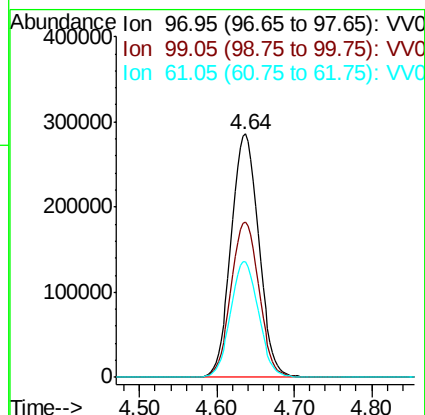
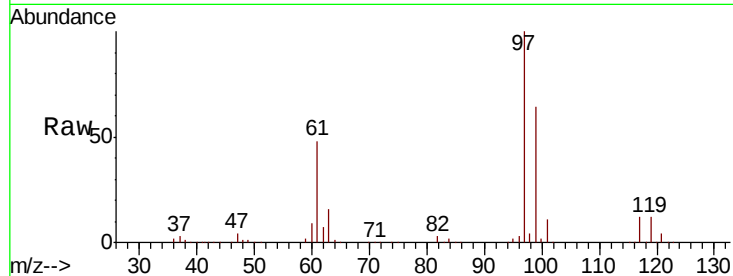




#29
 1,1,1-Trichloroethane
 Concen: 44.843 ug/L
 RT: 4.64 min Scan# 1103
 Delta R.T. 0.00 min
 Lab File: VV015754.D
 Acq: 28 Apr 2020 18:26

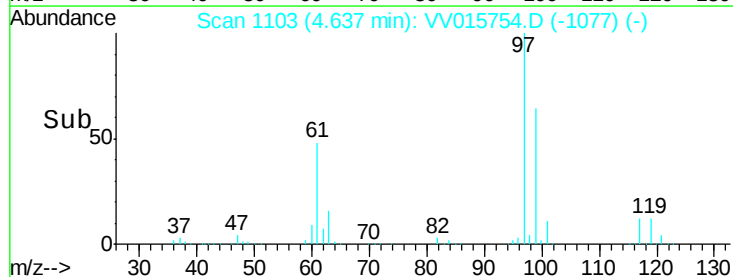
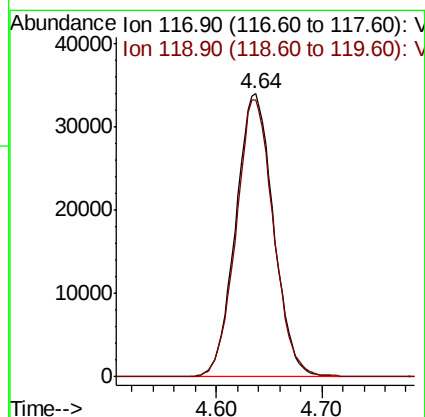
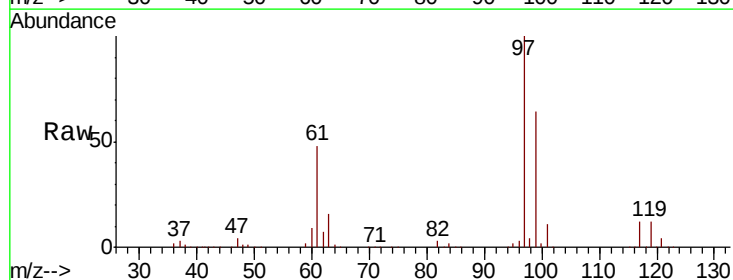
Instrument :
 MSVOA_V
 ClientSampleId :

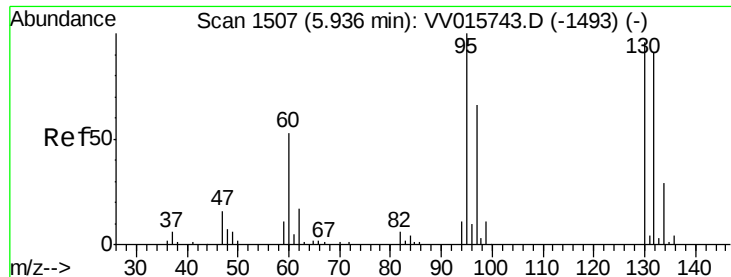
Tot Ion: 97 Resp: 709341
 Ion Ratio Lower Upper
 97 100
 99 64.9 51.6 77.4
 61 47.6 38.6 57.8



#31
 Carbon tetrachloride
 Concen: 6.438 ug/L
 RT: 4.64 min Scan# 1103
 Delta R.T. -0.22 min
 Lab File: VV015754.D
 Acq: 28 Apr 2020 18:26

Tgt Ion: 117 Resp: 84333
 Ion Ratio Lower Upper
 117 100
 119 97.1 75.6 113.4

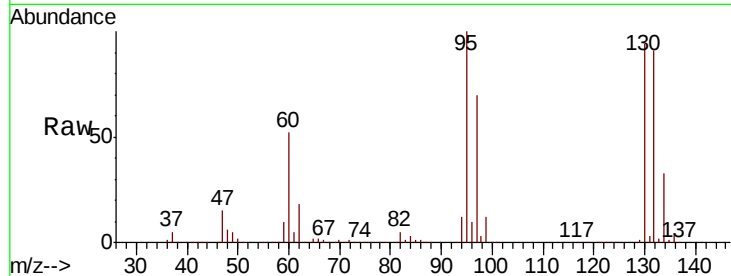




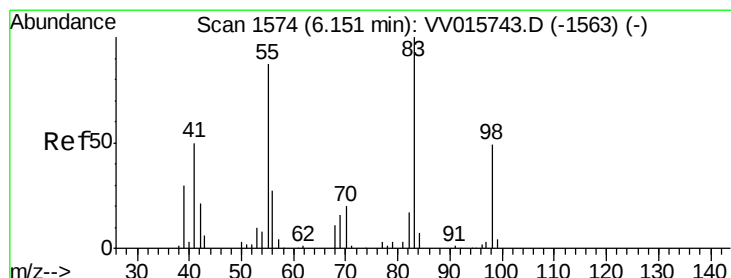
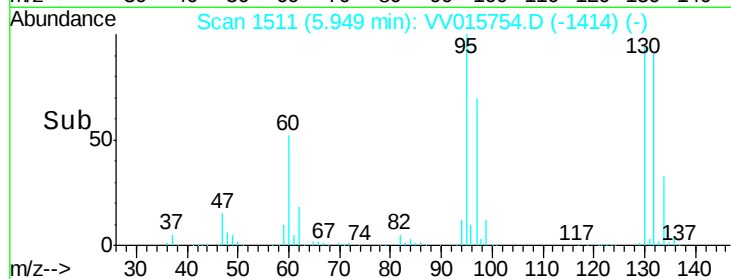
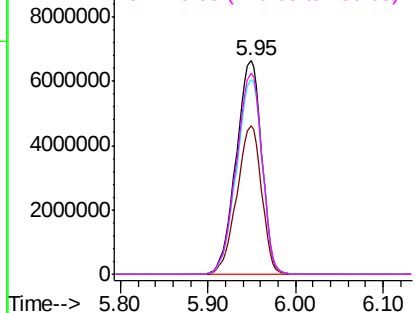
#34
 Trichloroethene
 Concen: 1367.719 ug/L
 RT: 5.95 min Scan# 1511
 Delta R.T. 0.01 min
 Lab File: VV015754.D
 Acq: 28 Apr 2020 18:26

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 95 Resp:13460708
 Ion Ratio Lower Upper
 95 100
 97 69.8 44.7 82.9
 132 91.4 65.2 121.0
 130 94.2 65.0 120.6

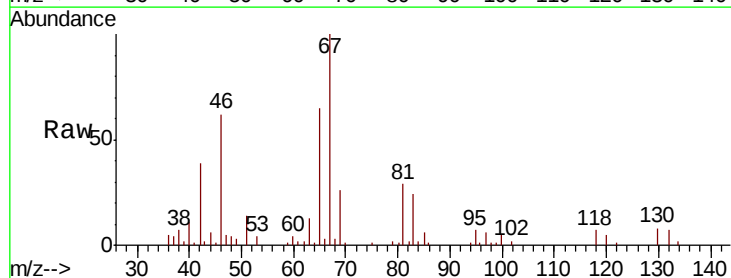


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

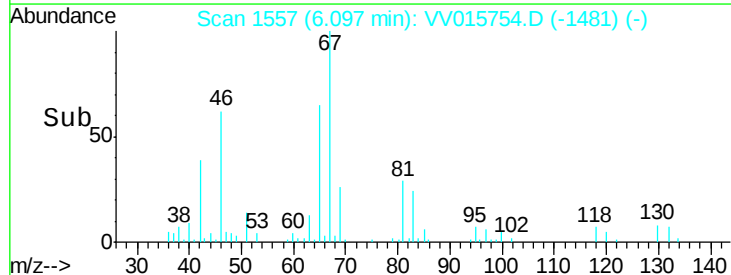
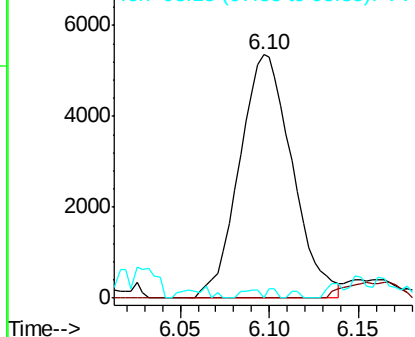


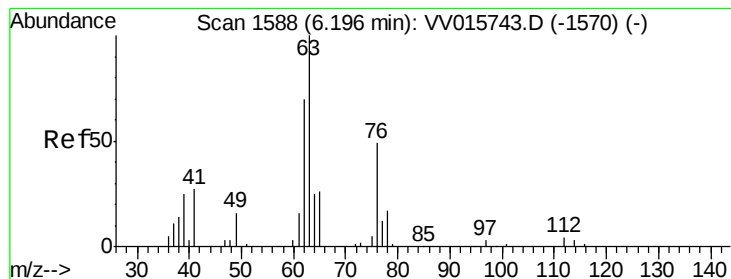
#35
 Methylcyclohexane
 Concen: 0.732 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.05 min
 Lab File: VV015754.D
 Acq: 28 Apr 2020 18:26

Tgt Ion: 83 Resp: 11059
 Ion Ratio Lower Upper
 83 100
 55 3.7 66.6 99.8#
 98 0.0 39.5 59.3#



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: 0.626 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.10 min

Lab File: VV015754.D

Acq: 28 Apr 2020 18:26

Instrument :

MSVOA_V

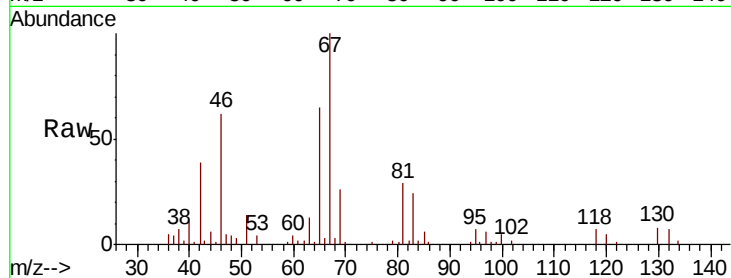
ClientSampleId :

Tot Ion: 63 Resp: 5669

Ion Ratio Lower Upper

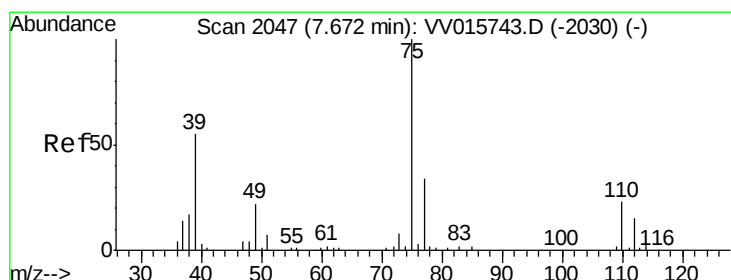
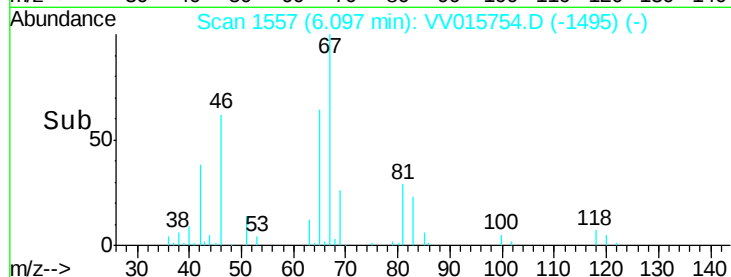
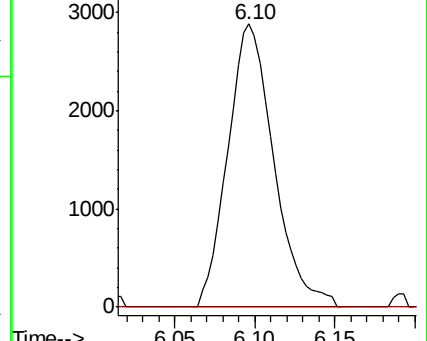
63 100

112 0.0 3.6 5.4#



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: 0.081 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.03 min

Lab File: VV015754.D

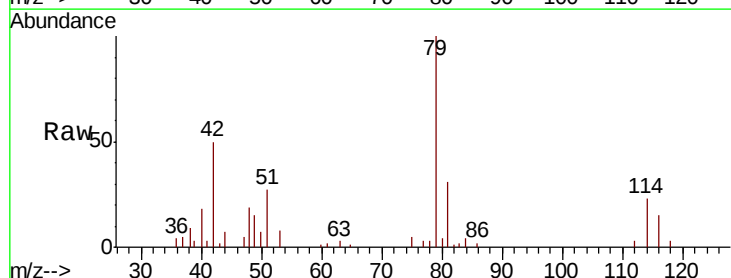
Acq: 28 Apr 2020 18:26

Tgt Ion: 75 Resp: 855

Ion Ratio Lower Upper

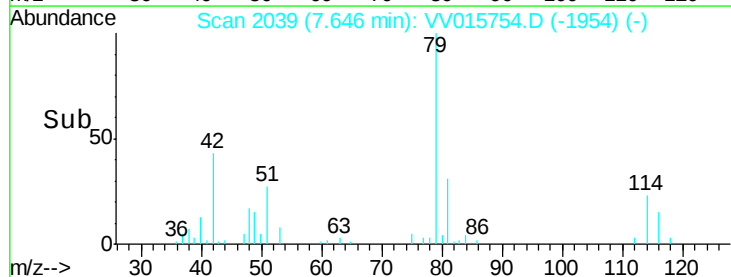
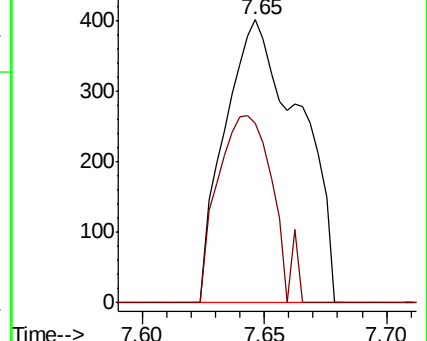
75 100

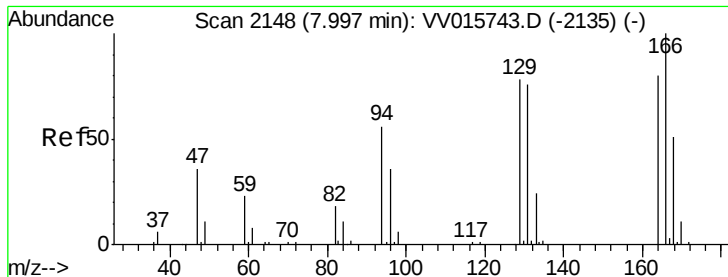
77 63.3 21.8 40.6#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

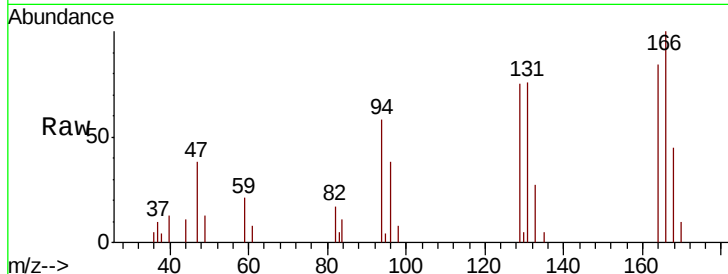




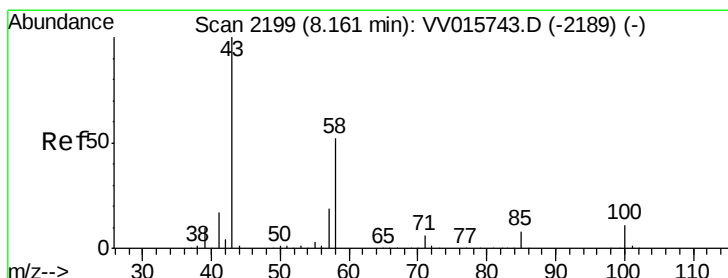
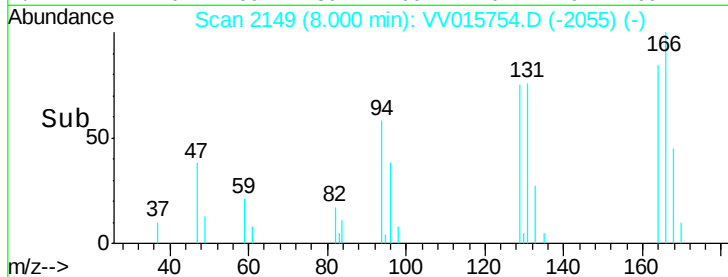
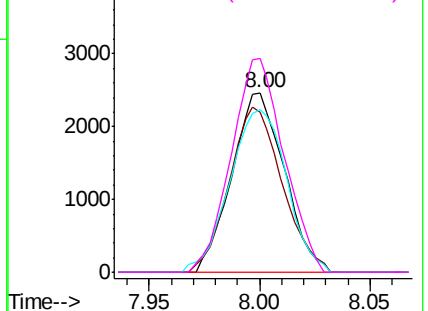
#47
Tetrachloroethene
Concen: 0.574 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. 0.00 min
Lab File: VV015754.D
Acq: 28 Apr 2020 18:26

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:164 Resp: 4071
Ion Ratio Lower Upper
164 100
129 88.9 66.7 123.9
131 90.4 66.6 123.6
166 118.9 85.3 158.5

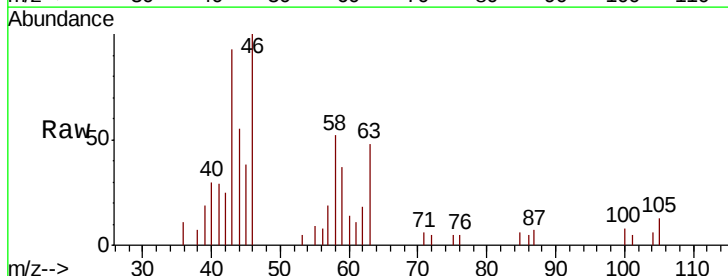


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

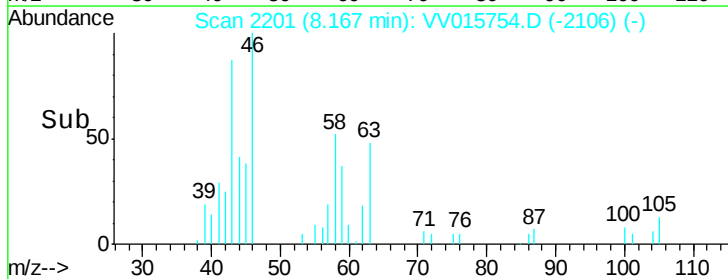
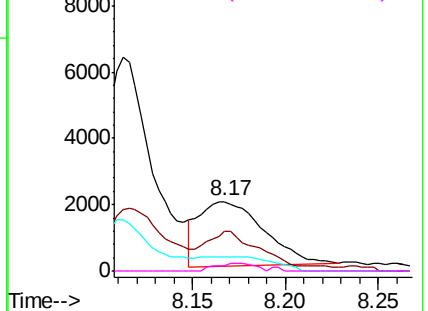


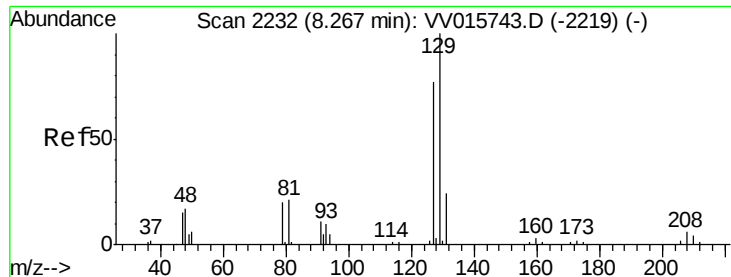
#48
2-Hexanone
Concen: 1.119 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. 0.01 min
Lab File: VV015754.D
Acq: 28 Apr 2020 18:26

Tgt Ion: 43 Resp: 4692
Ion Ratio Lower Upper
43 100
58 57.6 41.1 61.7
57 0.0 15.0 22.4#
100 7.1 9.0 13.4#



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

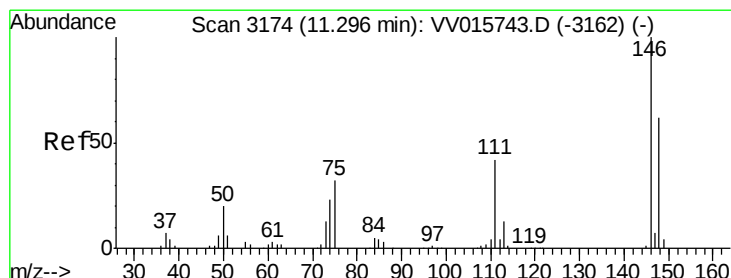
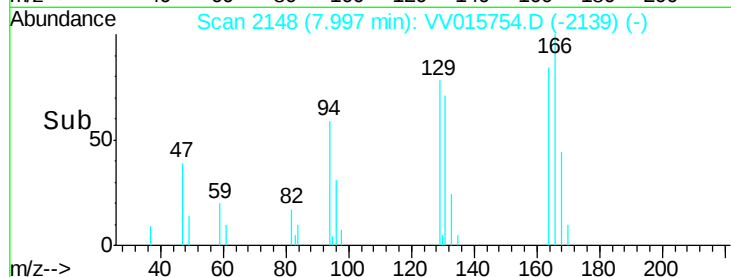
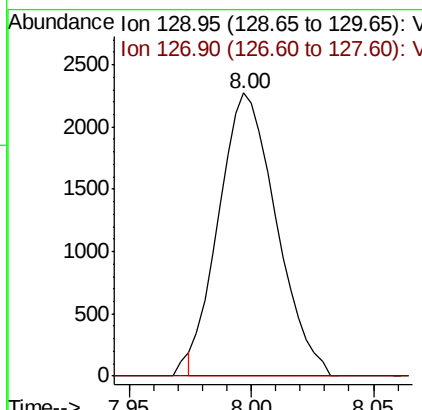
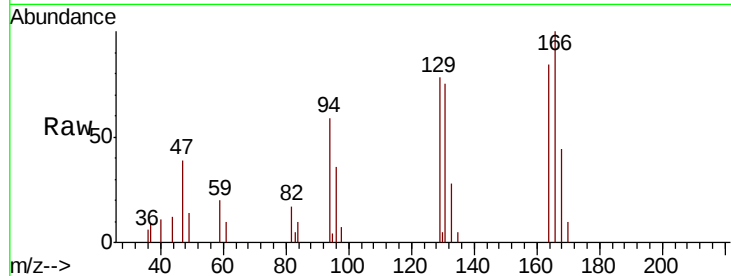




#49
Dibromochloromethane
Concen: 0.582 ug/L
RT: 8.00 min Scan# 2148
Delta R.T. -0.27 min
Lab File: VV015754.D
Acq: 28 Apr 2020 18:26

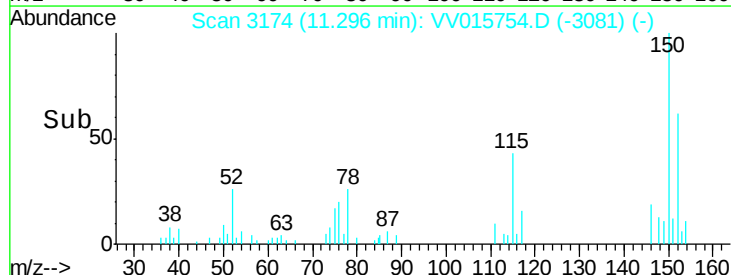
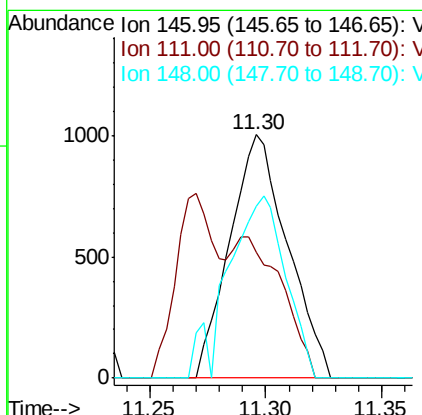
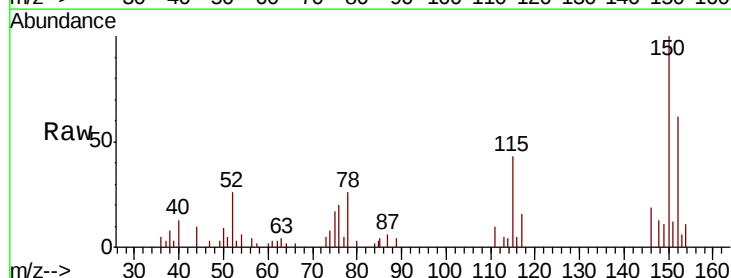
Instrument :
MSVOA_V
ClientSampled :

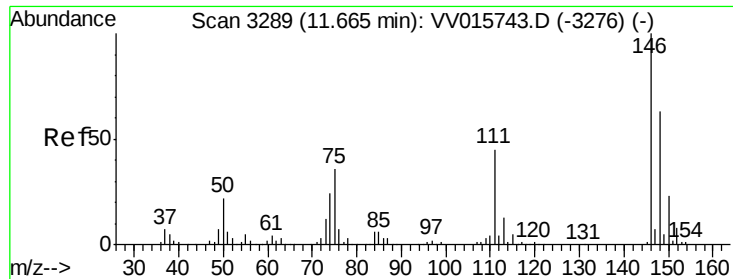
Tot Ion:129 Resp: 3720
Ion Ratio Lower Upper
129 100
127 0.0 52.6 97.8#



#63
1,4-Dichlorobenzene
Concen: 0.093 ug/L
RT: 11.30 min Scan# 3174
Delta R.T. 0.00 min
Lab File: VV015754.D
Acq: 28 Apr 2020 18:26

Tgt Ion:146 Resp: 1737
Ion Ratio Lower Upper
146 100
111 51.6 28.2 52.4
148 70.4 45.7 84.9





#65

1,2-Dichlorobenzene

Concen: 0.130 ug/L

RT: 11.67 min Scan# 3290

Delta R.T. 0.00 min

Lab File: VV015754.D

Acq: 28 Apr 2020 18:26

Instrument :

MSVOA_V

ClientSampleId :

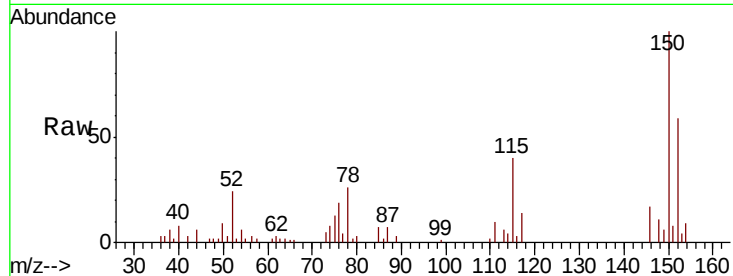
Tot Ion:146 Resp: 2185

Ion Ratio Lower Upper

146 100

111 56.0 34.7 52.1#

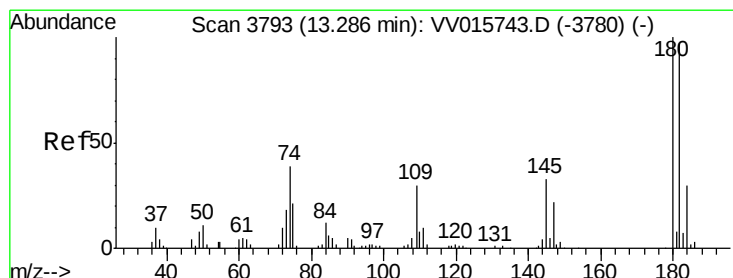
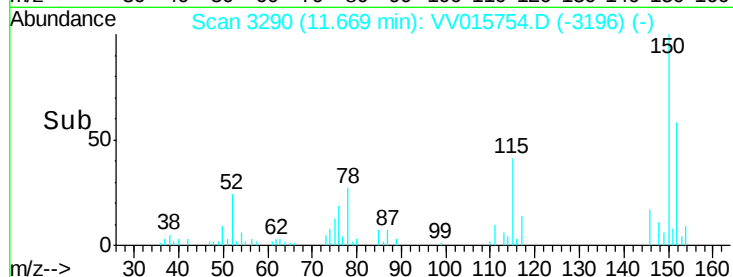
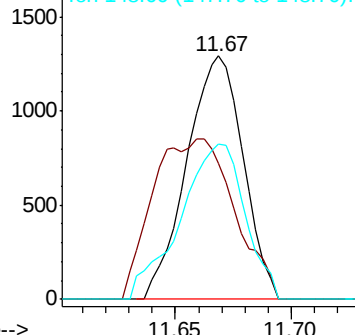
148 63.7 51.3 76.9



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



#68

1,2,4-trichlorobenzene

Concen: 0.095 ug/L

RT: 13.29 min Scan# 3794

Delta R.T. 0.00 min

Lab File: VV015754.D

Acq: 28 Apr 2020 18:26

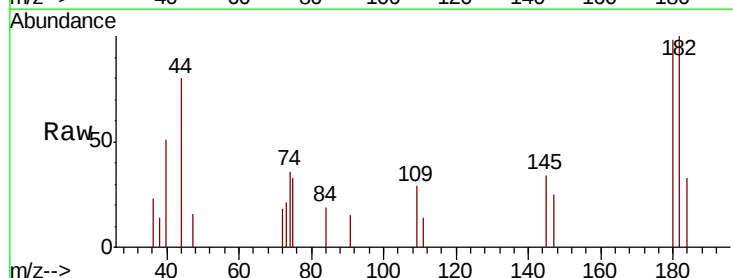
Tgt Ion:180 Resp: 1204

Ion Ratio Lower Upper

180 100

182 96.8 74.8 112.2

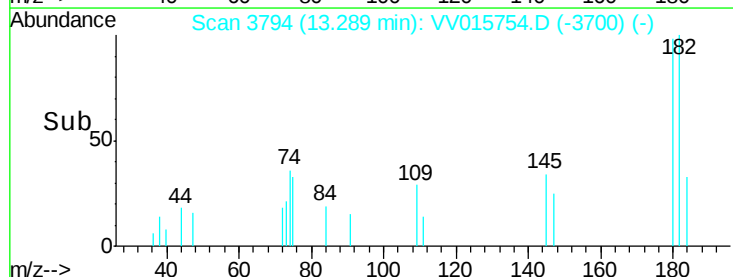
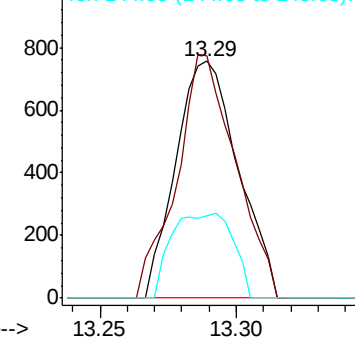
145 35.1 25.9 38.9

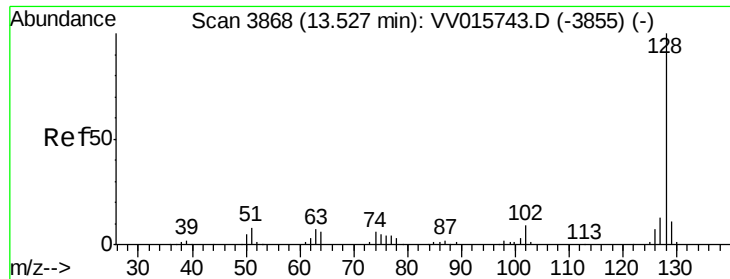


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.138 ug/L

RT: 13.53 min Scan# 3870

Delta R.T. 0.01 min

Lab File: VV015754.D

Acq: 28 Apr 2020 18:26

Instrument :

MSVOA_V

ClientSampleId :

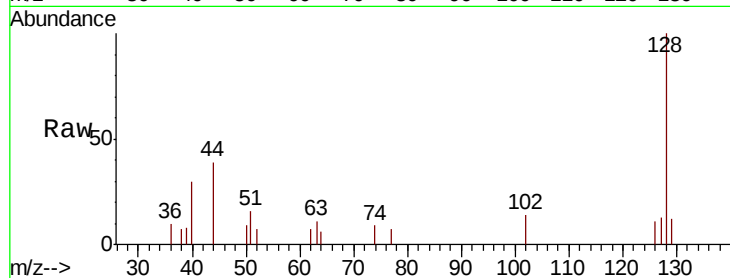
Tot Ion:128 Resp: 3110

Ion Ratio Lower Upper

128 100

129 7.5 8.4 12.6#

127 9.8 10.2 15.4#



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

13.53

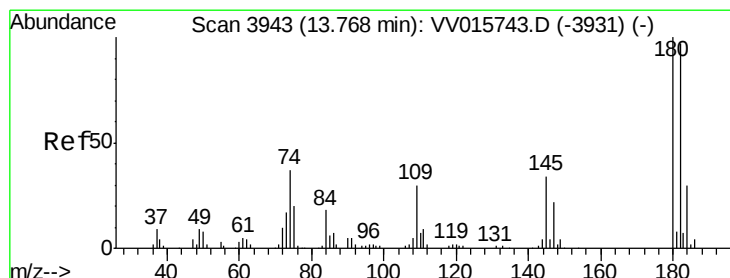
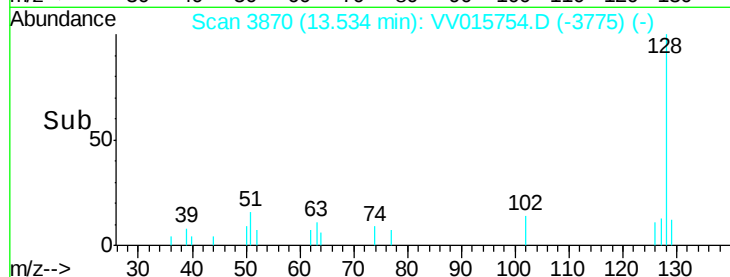
1500

1000

500

0

Time-->



#70

1,2,3-Trichlorobenzene

Concen: 0.098 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VV015754.D

Acq: 28 Apr 2020 18:26

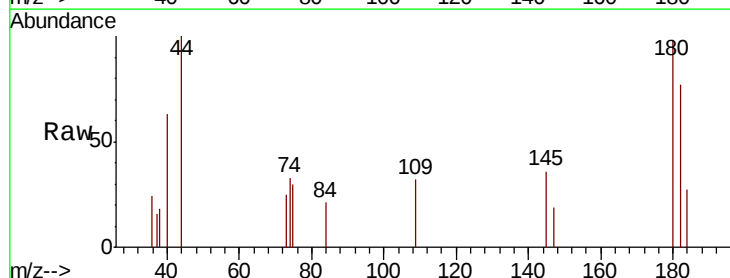
Tgt Ion:180 Resp: 1090

Ion Ratio Lower Upper

180 100

182 90.7 74.8 112.2

145 35.0 28.4 42.6



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

13.77

800

600

400

200

0

Time-->

