

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV041620\
 Data File : VV015540.D
 Acq On : 16 Apr 2020 16:35
 Operator : SY/MD
 Sample : L2320-07
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 17 00:50:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR040920WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Apr 17 00:46:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	98036	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	93625	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	45079	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	25918	5.09	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	101.80%
7) Chloroethane-d5	1.57	69	23927	5.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.20%
11) 1,1-Dichloroethene-d2	2.12	63	40616	3.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.80%
20) 2-Butanone-d5	3.95	46	71471	50.04	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.08%
24) Chloroform-d	4.38	84	53656	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
26) 1,2-Dichloroethane-d4	5.06	65	31779	5.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.60%
32) Benzene-d6	5.07	84	105952	5.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.00%
36) 1,2-Dichloropropane-d6	6.09	67	33169	5.13	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.60%
41) Toluene-d8	7.34	98	97121	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
43) trans-1,3-Dichloropropene-	7.64	79	12707	4.52	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.40%
46) 2-Hexanone-d5	8.12	63	61972	45.67	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.34%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	22710	4.42	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.40%
64) 1,2-Dichlorobenzene-d4	11.65	152	36219	5.01	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	9742	1.004	ug/L 99
9) Trichlorofluoromethane	1.76	101	41435	3.640	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	2374	0.369	ug/L 91
12) 1,1-Dichloroethene	2.13	96	6497	1.056	ug/L # 1
19) 1,1-Dichloroethane	3.21	63	2729	0.209	ug/L 92
22) cis-1,2-Dichloroethene	3.94	96	37917	5.266	ug/L 100
25) Chloroform	4.40	83	4280	0.320	ug/L 100
29) 1,1,1-Trichloroethane	4.64	97	1810	0.149	ug/L 97
31) Carbon tetrachloride	4.86	117	1429	0.135	ug/L 100
34) Trichloroethene	5.94	95	289640	38.402	ug/L 100
35) Methylcyclohexane	6.09	83	8255	0.650	ug/L # 18
37) 1,2-Dichloropropane	6.09	63	4241	0.610	ug/L # 86
39) cis-1,3-Dichloropropene	7.01	75	1068	0.100	ug/L 85
44) trans-1,3-Dichloropropene	7.65	75	727	0.081	ug/L 87
45) 1,1,2-Trichloroethane	7.99	97	1801	0.385	ug/L # 18
47) Tetrachloroethene	8.00	164	180575	32.315	ug/L 98
48) 2-Hexanone	8.11	43	9838	3.085	ug/L # 73

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR040920WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Apr 17 00:46:36 2020
Response via : Initial Calibration

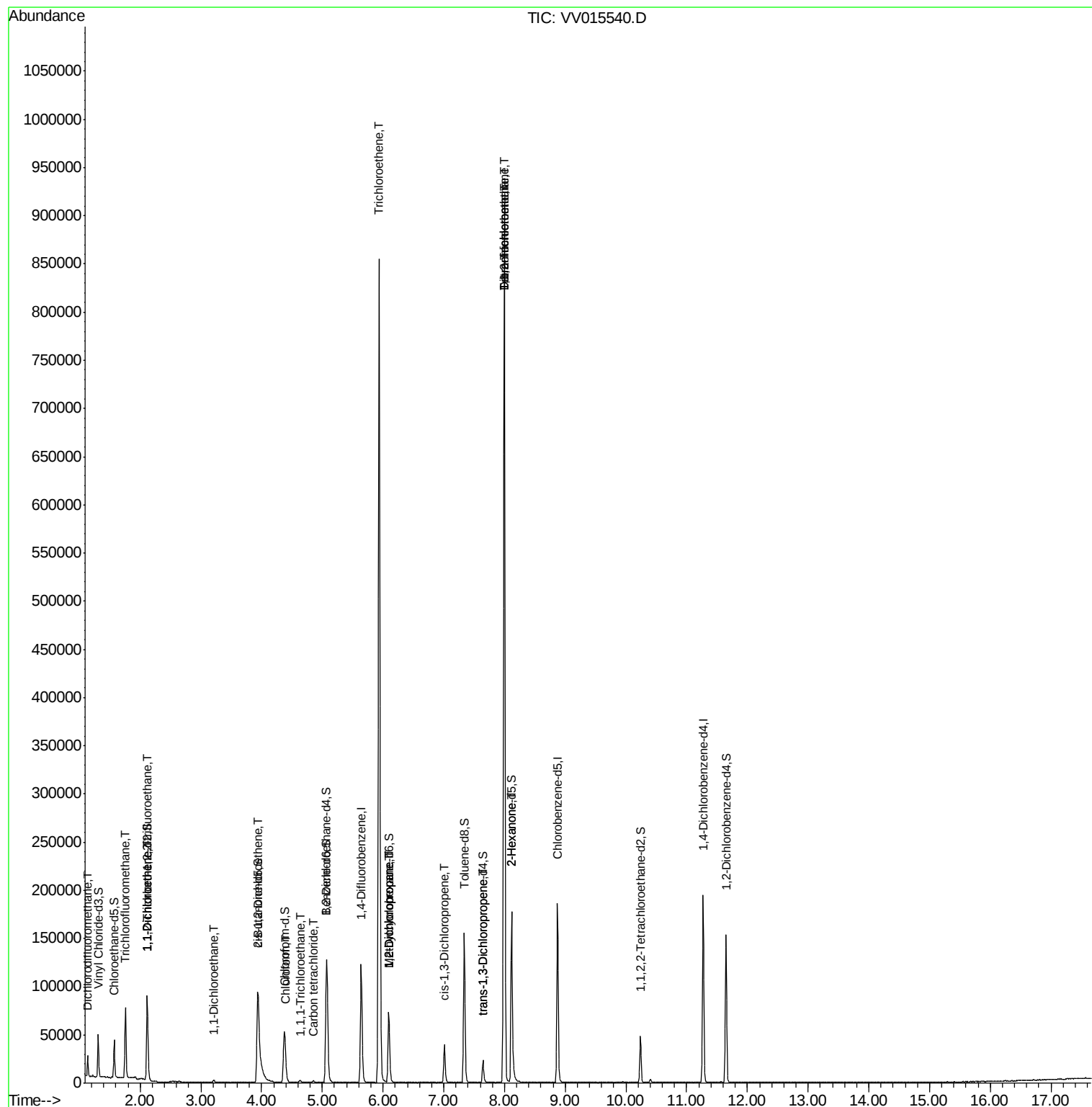
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
49) Dibromochloromethane	8.00	129	173879	31.070	ug/L #	10
-----	-----	-----	-----	-----	-----	-----

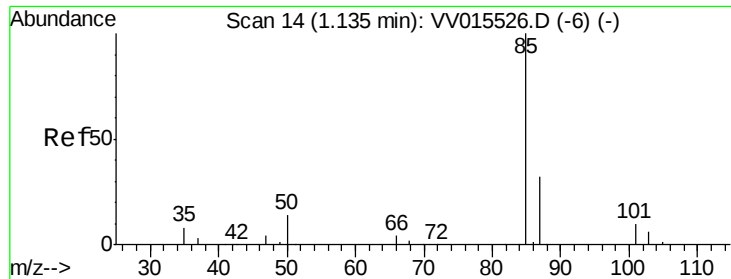
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Apr 17 00:46:36 2020
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.004 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV015540.D

Acq: 16 Apr 2020 16:35

Instrument :

MSVOA_V

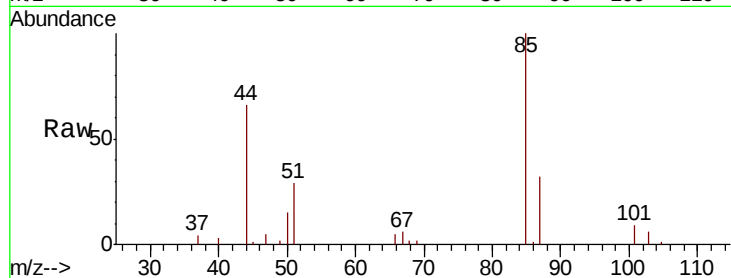
ClientSampled :

Tot Ion: 85 Resp: 9742

Ion Ratio Lower Upper

85 100

87 32.2 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV015540.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VV015540.D (-6) (-)

1.14

10000

8000

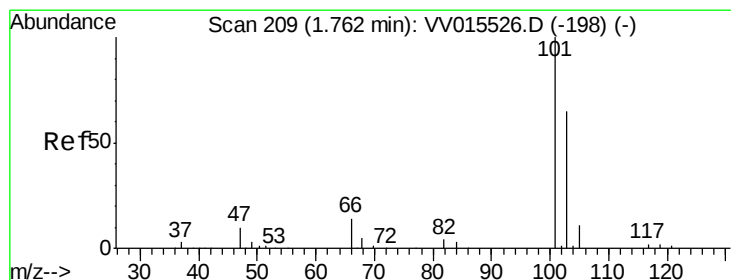
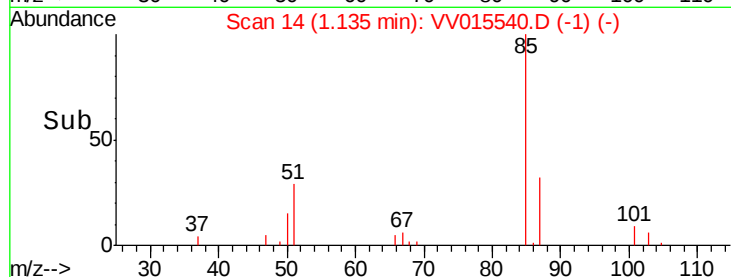
6000

4000

2000

0

Time-->



#9

Trichlorofluoromethane

Concen: 3.640 ug/L

RT: 1.76 min Scan# 208

Delta R.T. -0.00 min

Lab File: VV015540.D

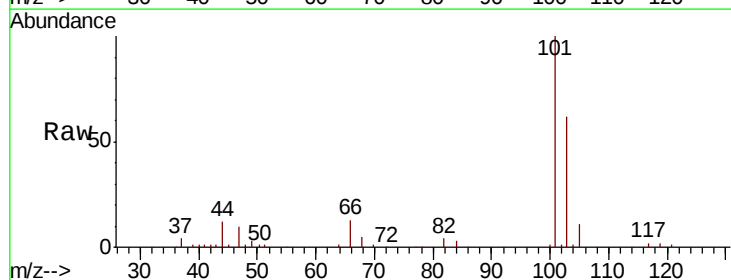
Acq: 16 Apr 2020 16:35

Tgt Ion: 101 Resp: 41435

Ion Ratio Lower Upper

101 100

103 63.4 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VV015540.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV015540.D (-198) (-)

1.76

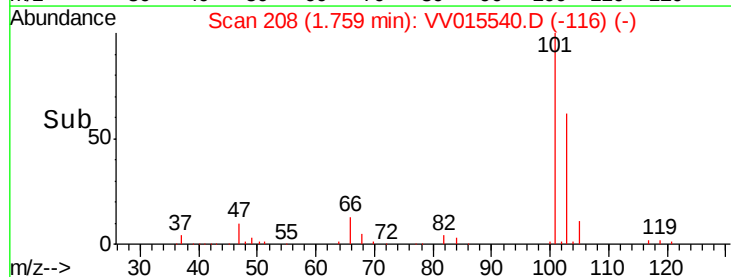
30000

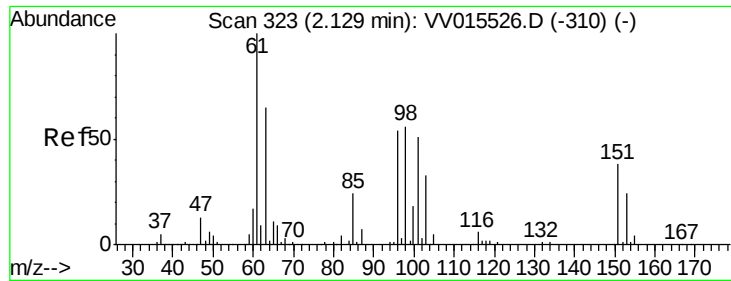
20000

10000

0

Time-->





#10

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

Concen: 0.369 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV015540.D

Acq: 16 Apr 2020 16:35

Instrument :

MSVOA_V

ClientSampleId :

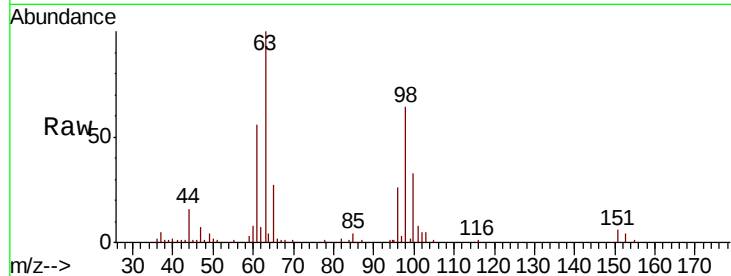
Tot Ion:101 Resp: 2374

Ion Ratio Lower Upper

101 100

85 39.5 36.3 54.5

151 64.9 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): VV015540.D (-230) (-)

Ion 85.00 (84.70 to 85.70): VV015540.D (-230) (-)

Ion 151.00 (150.70 to 151.70): VV015540.D (-230) (-)

2.13

1500

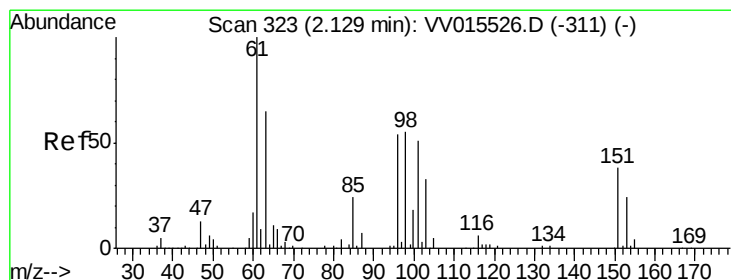
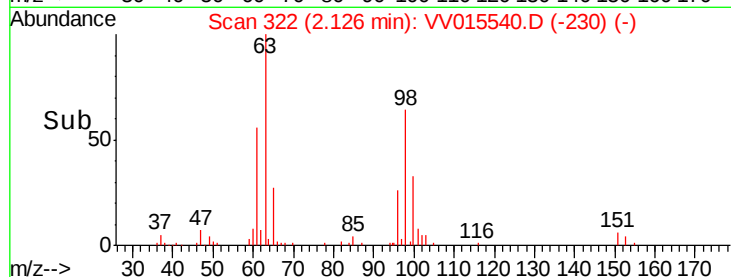
1000

500

0

2.10 2.15

Time-->



#12

1,1-Dichloroethene

Concen: 1.056 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV015540.D

Acq: 16 Apr 2020 16:35

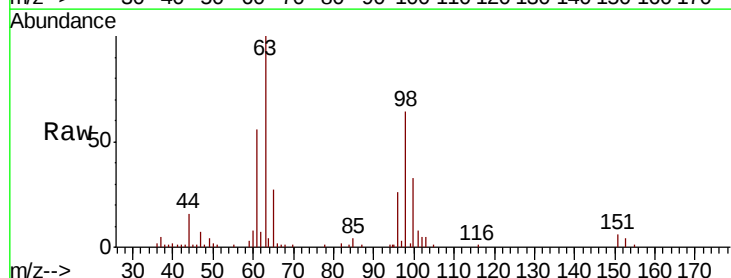
Tgt Ion: 96 Resp: 6497

Ion Ratio Lower Upper

96 100

61 213.1 127.7 237.1

63 378.1 75.1 139.5#



Abundance Ion 96.00 (95.70 to 96.70): VV015540.D (-230) (-)

Ion 61.05 (60.75 to 61.75): VV015540.D (-230) (-)

Ion 63.00 (62.70 to 63.70): VV015540.D (-230) (-)

2.13

30000

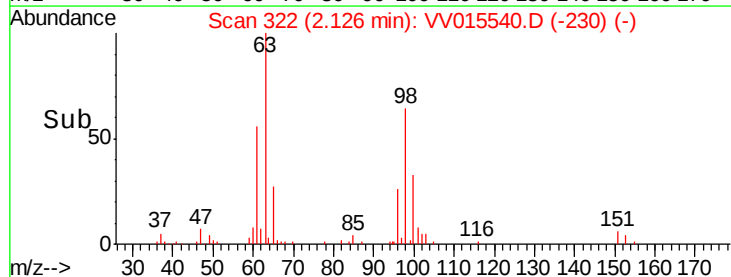
20000

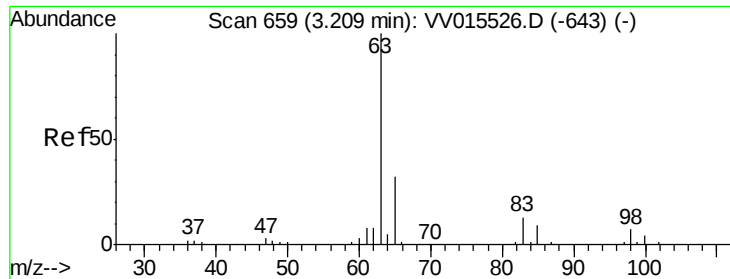
10000

0

2.10 2.15

Time-->

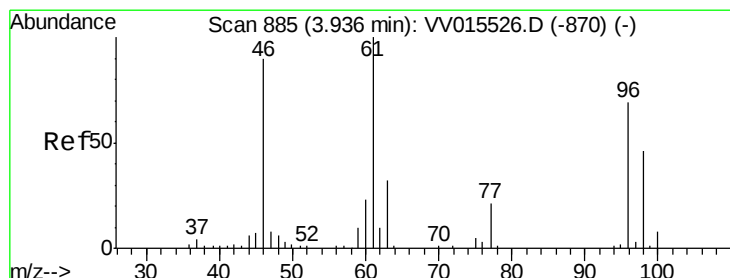
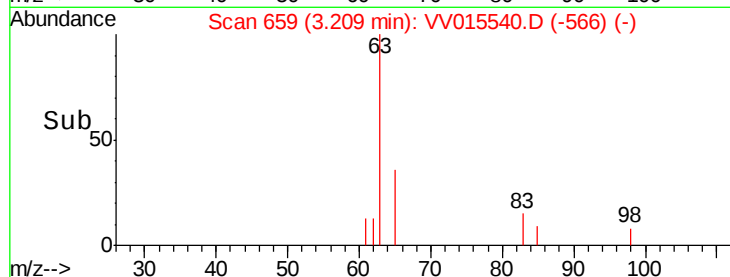
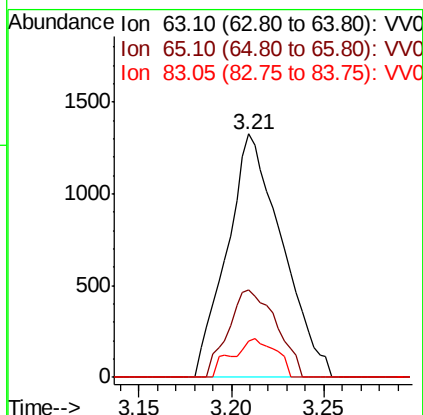
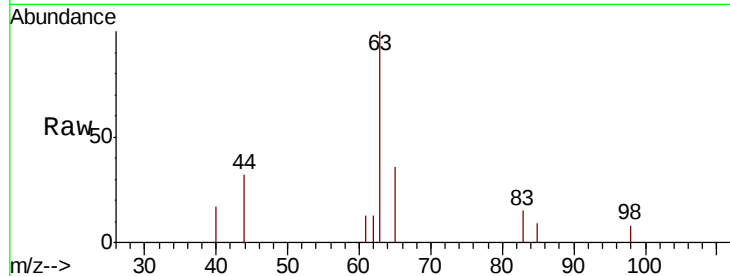




#19
 1,1-Dichloroethane
 Concen: 0.209 ug/L
 RT: 3.21 min Scan# 659
 Delta R.T. 0.00 min
 Lab File: VV015540.D
 Acq: 16 Apr 2020 16:35

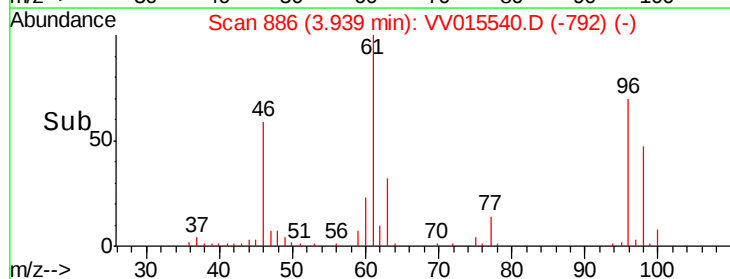
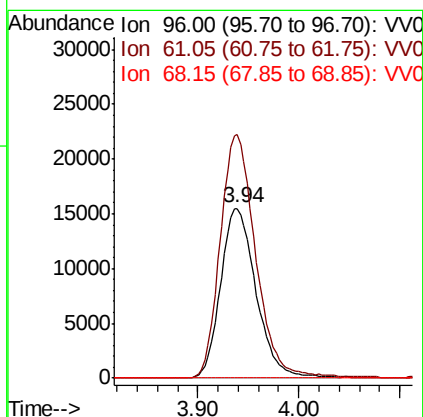
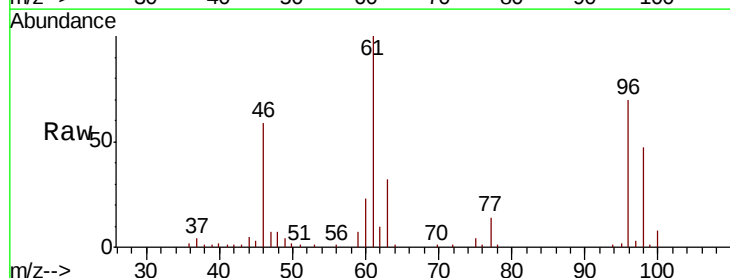
Instrument :
 MSVOA_V
 ClientSampleId :

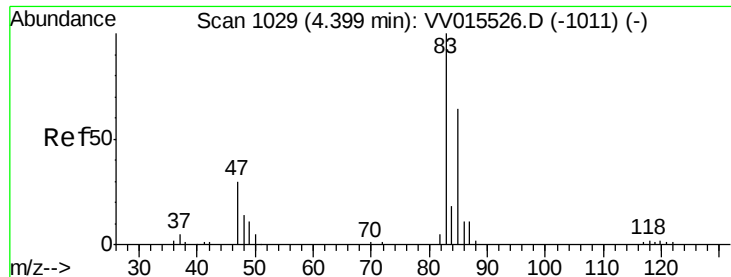
Tot Ion: 63 Resp: 2729
 Ion Ratio Lower Upper
 63 100
 65 35.9 21.3 39.6
 83 14.6 9.4 17.6



#22
 cis-1,2-Dichloroethene
 Concen: 5.266 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV015540.D
 Acq: 16 Apr 2020 16:35

Tgt Ion: 96 Resp: 37917
 Ion Ratio Lower Upper
 96 100
 61 143.3 100.0 185.8
 68 0.0 0.0 0.0

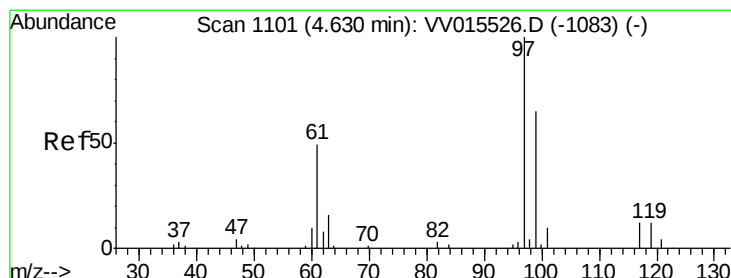
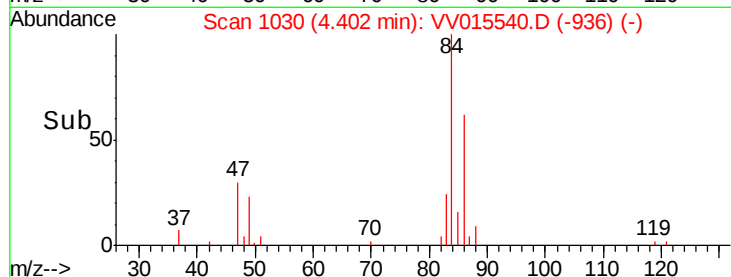
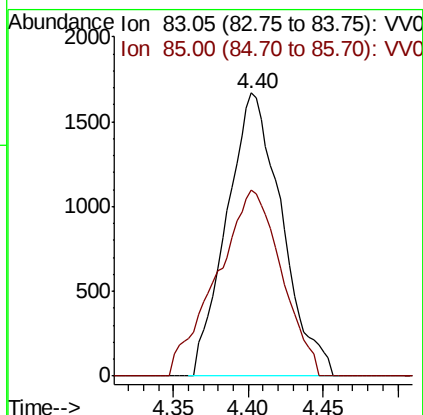
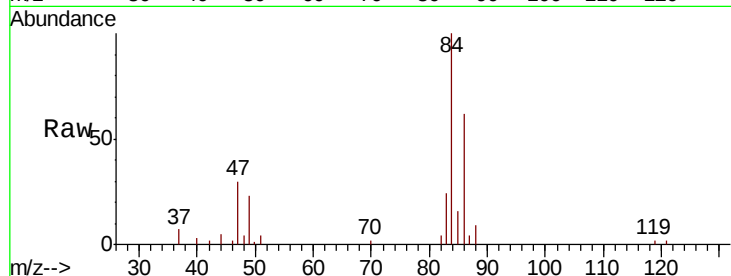




#25
Chloroform
Concen: 0.320 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV015540.D
Acq: 16 Apr 2020 16:35

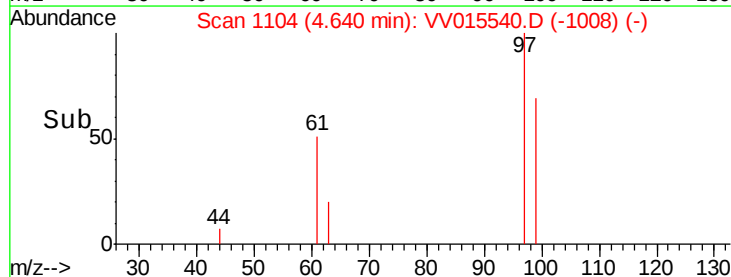
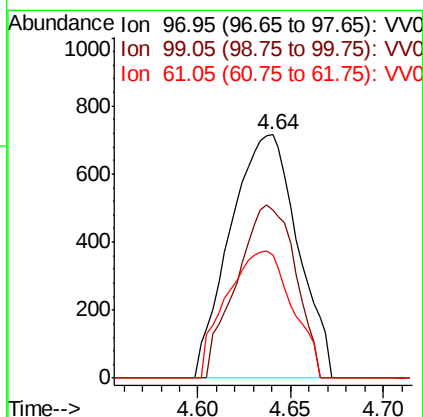
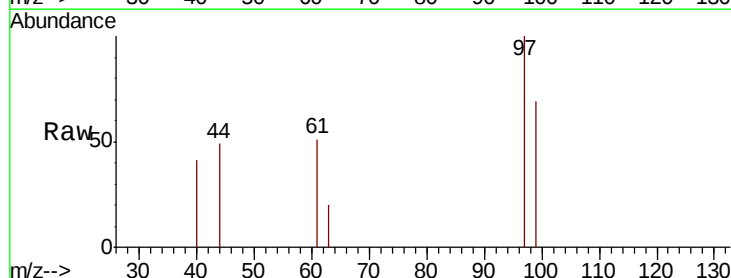
Instrument :
MSVOA_V
ClientSampled :

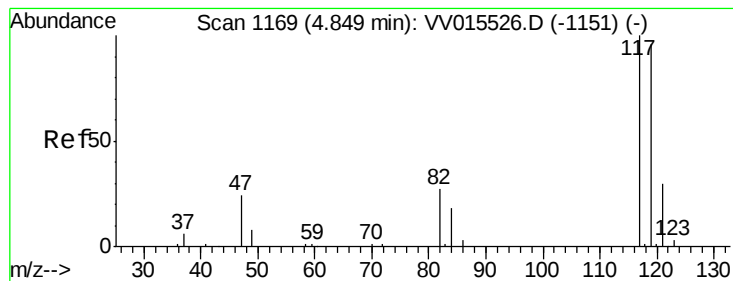
Tot Ion: 83 Resp: 4280
Ion Ratio Lower Upper
83 100
85 65.9 45.9 85.3



#29
1,1,1-Trichloroethane
Concen: 0.149 ug/L
RT: 4.64 min Scan# 1104
Delta R.T. 0.01 min
Lab File: VV015540.D
Acq: 16 Apr 2020 16:35

Tgt Ion: 97 Resp: 1810
Ion Ratio Lower Upper
97 100
99 61.9 51.6 77.4
61 51.0 39.0 58.6





#31

Carbon tetrachloride

Concen: 0.135 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.01 min

Lab File: VV015540.D

Acq: 16 Apr 2020 16:35

Instrument :

MSVOA_V

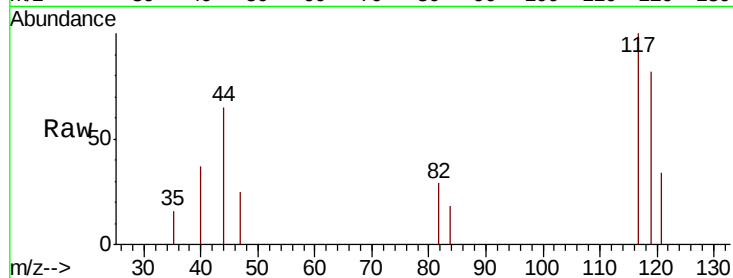
ClientSampleId :

Tot Ion:117 Resp: 1429

Ion Ratio Lower Upper

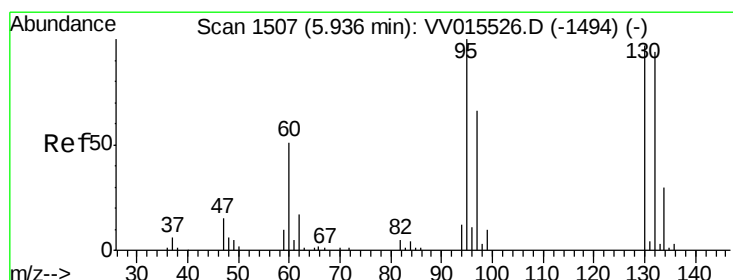
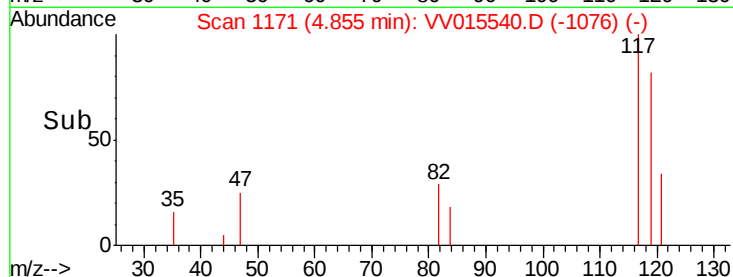
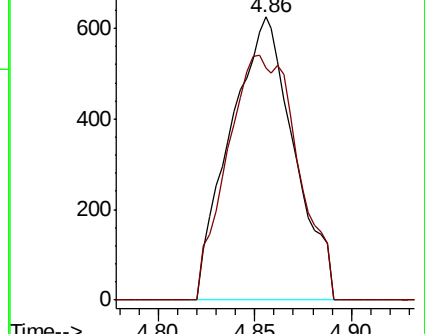
117 100

119 96.1 76.6 115.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#34

Trichloroethene

Concen: 38.402 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. 0.00 min

Lab File: VV015540.D

Acq: 16 Apr 2020 16:35

Tgt Ion: 95 Resp: 289640

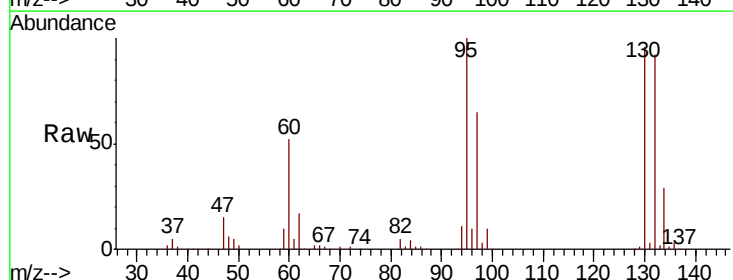
Ion Ratio Lower Upper

95 100

97 64.8 45.4 84.4

132 92.4 64.8 120.4

130 96.3 67.4 125.2

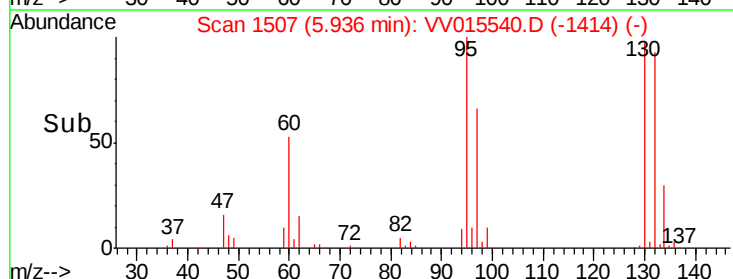
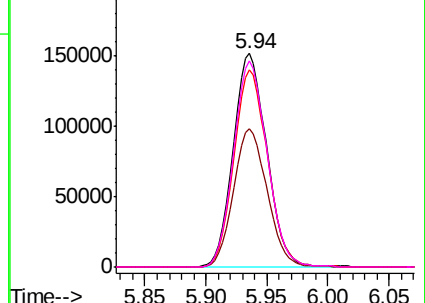


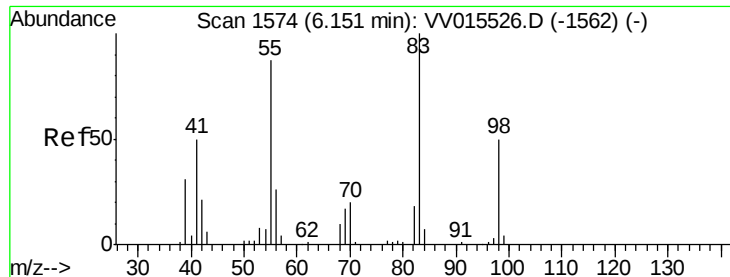
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V





#35

Methylcyclohexane

Concen: 0.650 ug/L

RT: 6.09 min Scan# 1556

Delta R.T. -0.06 min

Lab File: VV015540.D

Acq: 16 Apr 2020 16:35

Instrument :
MSVOA_V
ClientSampled :

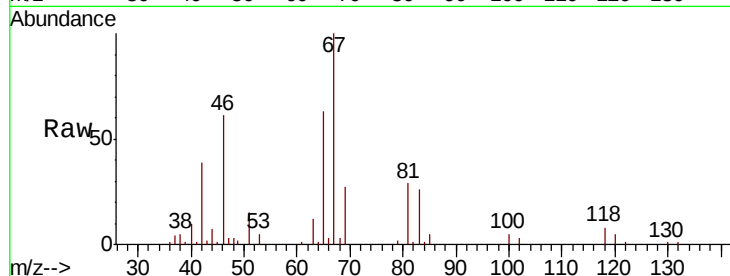
Tot Ion: 83 Resp: 8255

Ion Ratio Lower Upper

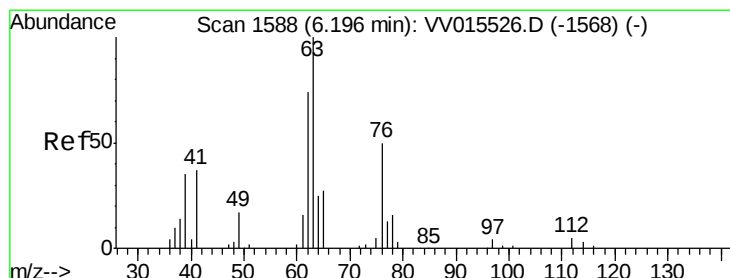
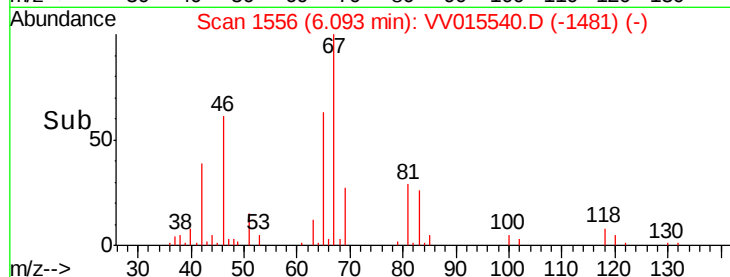
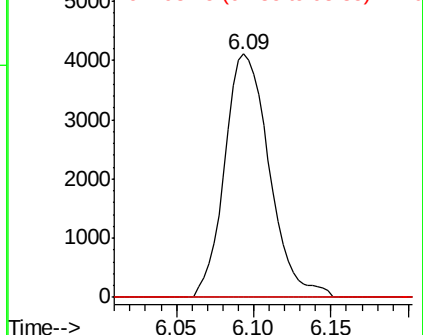
83 100

55 0.0 66.6 99.8#

98 5.6 38.7 58.1#



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: 0.610 ug/L

RT: 6.09 min Scan# 1556

Delta R.T. -0.10 min

Lab File: VV015540.D

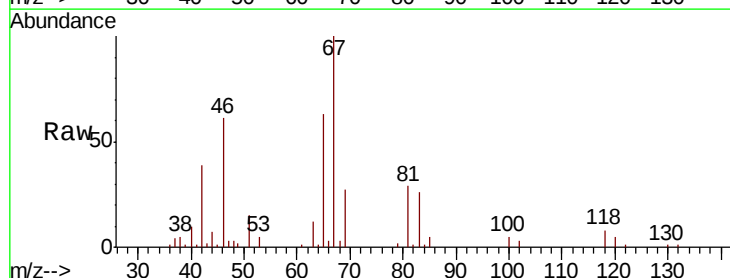
Acq: 16 Apr 2020 16:35

Tgt Ion: 63 Resp: 4241

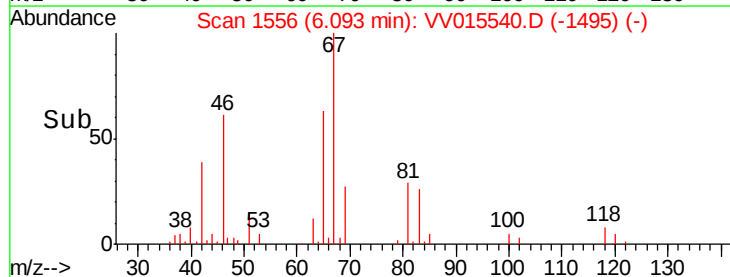
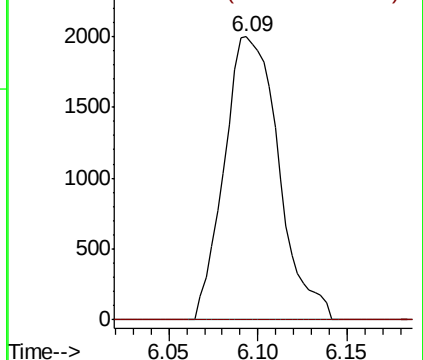
Ion Ratio Lower Upper

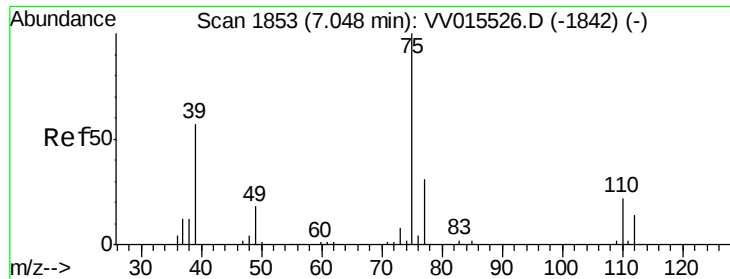
63 100

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

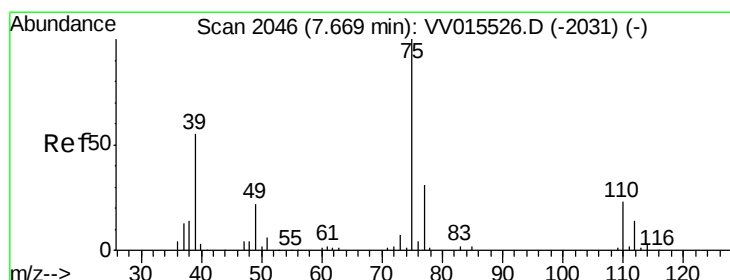
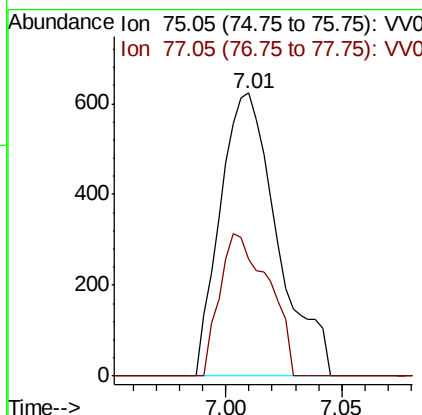
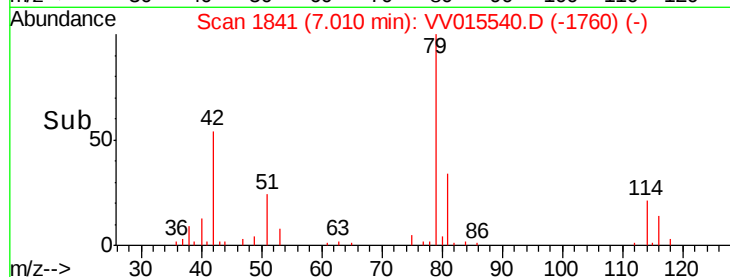
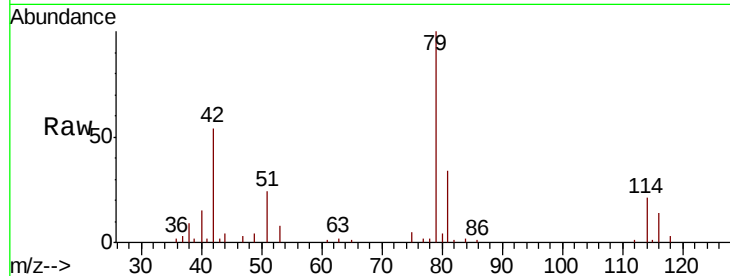




#39
 cis-1,3-Dichloropropene
 Concen: 0.100 ug/L
 RT: 7.01 min Scan# 1841
 Delta R.T. -0.04 min
 Lab File: VV015540.D
 Acq: 16 Apr 2020 16:35

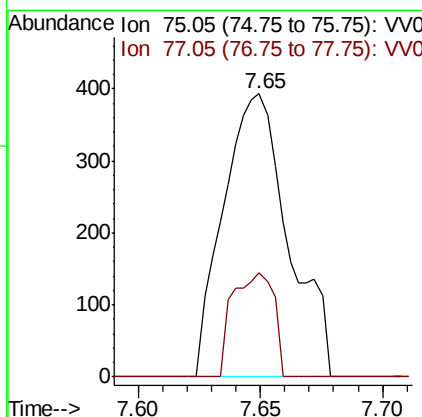
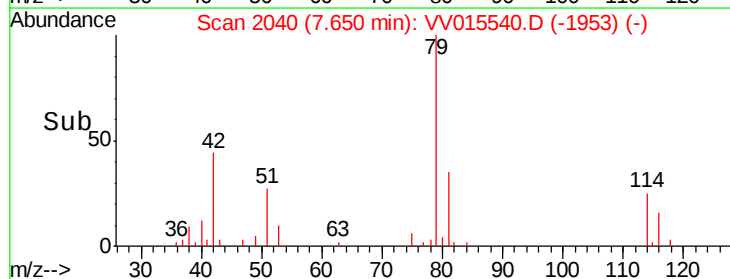
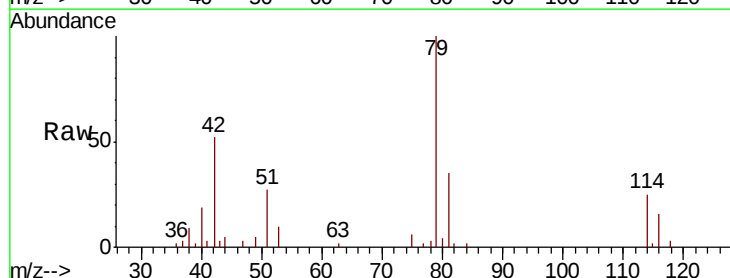
Instrument :
 MSVOA_V
 ClientSampleId :

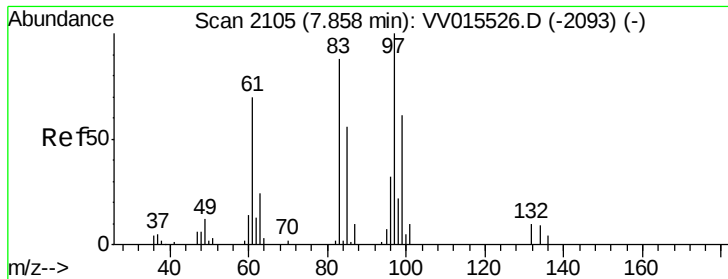
Tot Ion: 75 Resp: 1068
 Ion Ratio Lower Upper
 75 100
 77 41.4 23.0 42.6



#44
 trans-1,3-Dichloropropene
 Concen: 0.081 ug/L
 RT: 7.65 min Scan# 2040
 Delta R.T. -0.02 min
 Lab File: VV015540.D
 Acq: 16 Apr 2020 16:35

Tgt Ion: 75 Resp: 727
 Ion Ratio Lower Upper
 75 100
 77 36.9 21.0 39.0

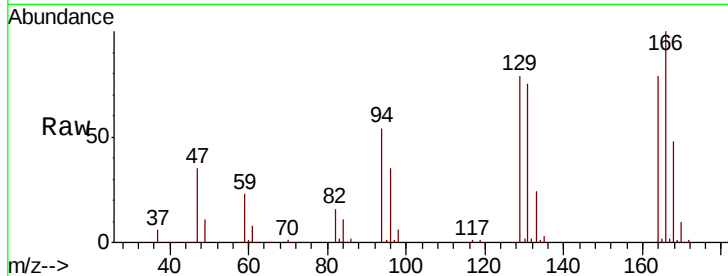




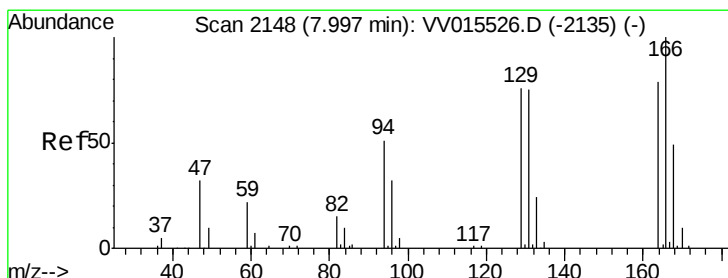
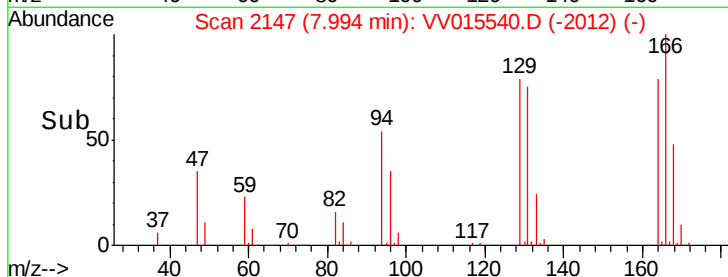
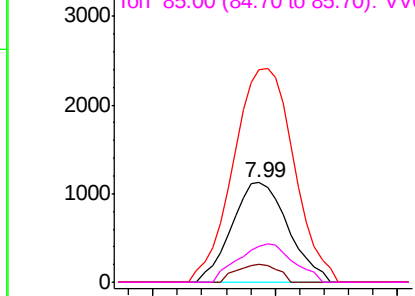
#45
 1,1,2-Trichloroethane
 Concen: 0.385 ug/L
 RT: 7.99 min Scan# 2147
 Delta R.T. 0.14 min
 Lab File: VV015540.D
 Acq: 16 Apr 2020 16:35

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	97	Resp:	1801
Ion	Ratio	Lower	Upper
97	100		
99	18.0	41.3	76.7#
83	213.1	60.5	112.3#
85	36.3	36.8	68.4#

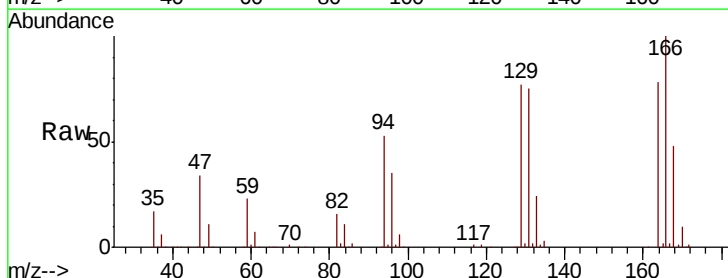


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

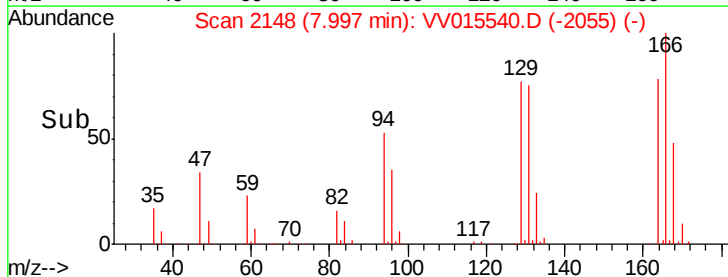
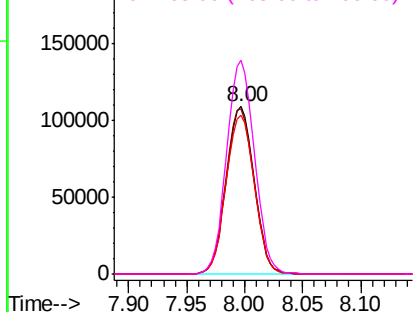


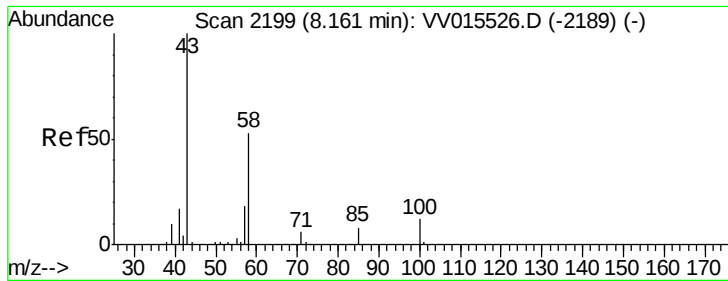
#47
 Tetrachloroethene
 Concen: 32.315 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. 0.00 min
 Lab File: VV015540.D
 Acq: 16 Apr 2020 16:35

Tgt Ion:	164	Resp:	180575
Ion	Ratio	Lower	Upper
164	100		
129	98.5	70.6	131.0
131	95.1	68.3	126.8
166	127.5	88.3	163.9



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

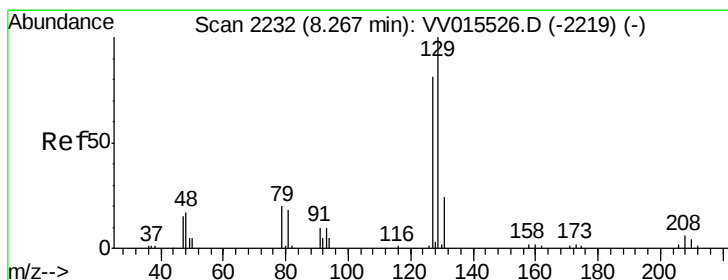
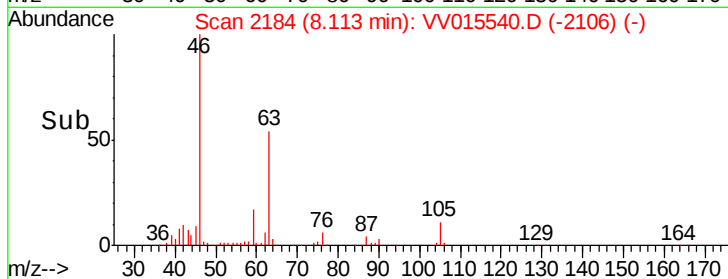
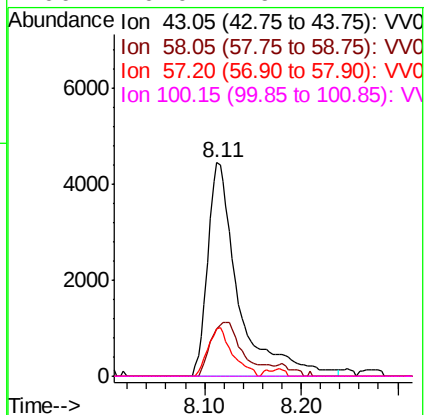
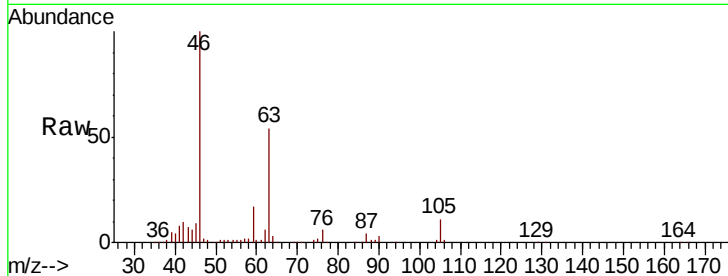




#48
2-Hexanone
Concen: 3.085 ug/L
RT: 8.11 min Scan# 2184
Delta R.T. -0.05 min
Lab File: VV015540.D
Acq: 16 Apr 2020 16:35

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 9838
Ion Ratio Lower Upper
43 100
58 26.5 41.4 62.0#
57 18.0 15.0 22.4
100 0.0 9.4 14.2#



#49
Dibromochloromethane
Concen: 31.070 ug/L
RT: 8.00 min Scan# 2148
Delta R.T. -0.27 min
Lab File: VV015540.D
Acq: 16 Apr 2020 16:35

Tgt Ion: 129 Resp: 173879
Ion Ratio Lower Upper
129 100
127 0.2 54.7 101.7#

