

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042820\
 Data File : VV015773.D
 Acq On : 29 Apr 2020 02:14
 Operator : SY/MD
 Sample : L2419-04
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 29 03:50:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR042220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Apr 29 03:36:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	114605	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	109478	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	48304	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	37323	6.23	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	124.60%
7) Chloroethane-d5	1.58	69	32811	5.68	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	113.60%
11) 1,1-Dichloroethene-d2	2.12	63	53098	4.05	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.00%
20) 2-Butanone-d5	3.91	46	84439	43.91	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	87.82%
24) Chloroform-d	4.38	84	57180	4.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.00%
26) 1,2-Dichloroethane-d4	5.06	65	38471	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.60%
32) Benzene-d6	5.08	84	130043	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.60%
36) 1,2-Dichloropropane-d6	6.10	67	40000	4.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.80%
41) Toluene-d8	7.34	98	112111	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.40%
43) trans-1,3-Dichloropropene-	7.65	79	12477	3.86	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.20%
46) 2-Hexanone-d5	8.11	63	64275	40.82	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	81.64%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	26525	4.27	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.40%
64) 1,2-Dichlorobenzene-d4	11.65	152	36365	4.43	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.60	64	693	0.116	ug/L #	60
12) 1,1-Dichloroethene	2.13	96	635	0.095	ug/L #	1
13) Acetone	2.19	43	4254	3.186	ug/L	97
14) Carbon disulfide	2.31	76	2440	0.129	ug/L #	87
22) cis-1,2-Dichloroethene	3.94	96	62726	7.596	ug/L	96
25) Chloroform	4.40	83	11693	0.751	ug/L	95
27) 1,2-Dichloroethane	5.08	62	802	0.078	ug/L #	78
29) 1,1,1-Trichloroethane	4.63	97	4844	0.349	ug/L	100
34) Trichloroethene	5.94	95	19534	2.261	ug/L	99
35) Methylcyclohexane	6.10	83	10156	0.766	ug/L #	15
37) 1,2-Dichloropropane	6.09	63	5188	0.653	ug/L #	86
39) cis-1,3-Dichloropropene	7.01	75	1194	0.108	ug/L	89
44) trans-1,3-Dichloropropene	7.65	75	575	0.062	ug/L	87
45) 1,1,2-Trichloroethane	8.02	97	174728	32.244	ug/L #	1
47) Tetrachloroethene	8.02	164	15628738	2512.830	ug/L	92
48) 2-Hexanone	8.17	43	1911	0.519	ug/L #	94
49) Dibromochloromethane	8.02	129	16250517	2897.651	ug/L #	12

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QLast Update : Wed Apr 29 03:36:29 2020
Response via : Initial Calibration

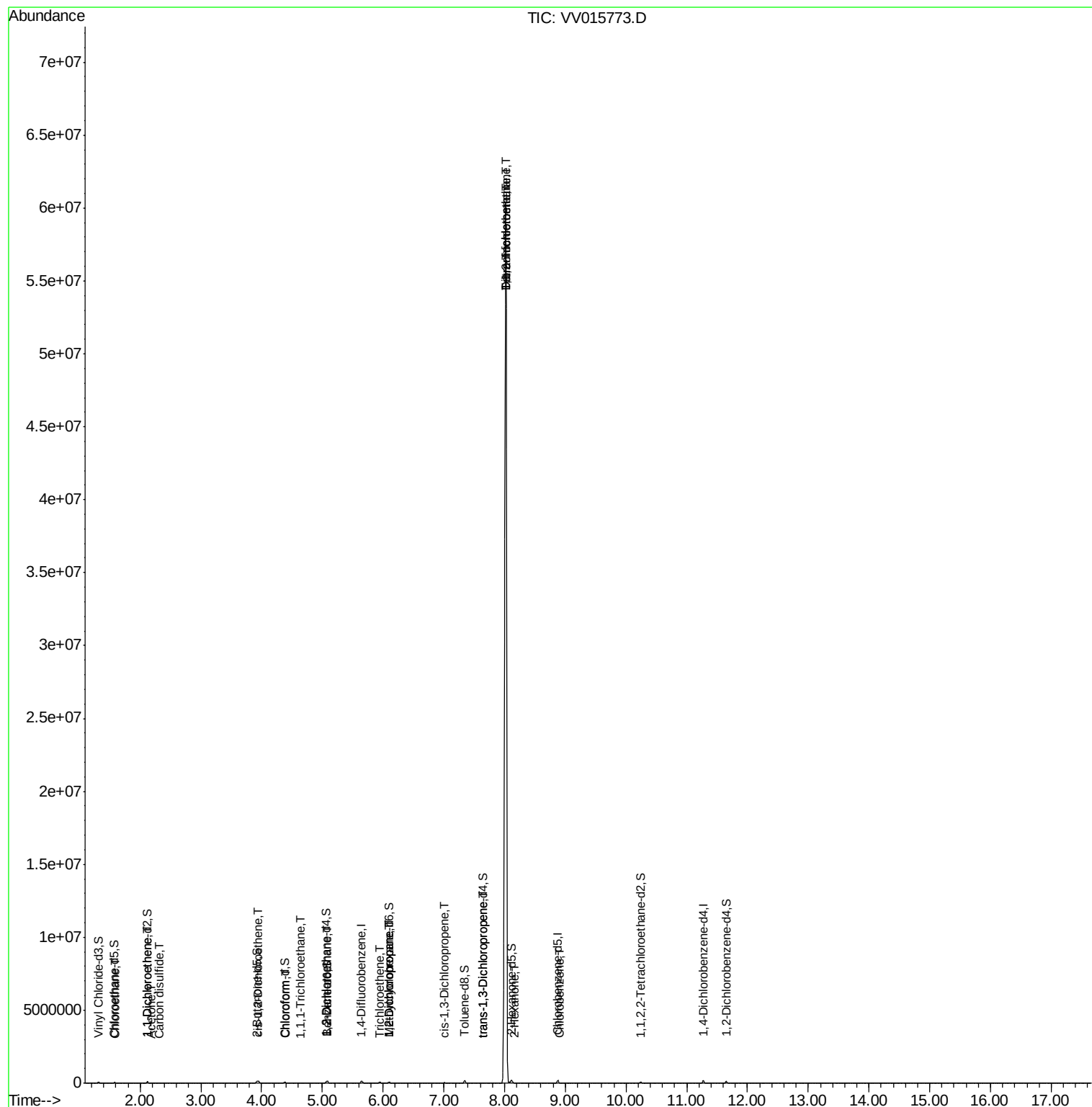
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	8.91	112	1200	0.055	ug/L #	85

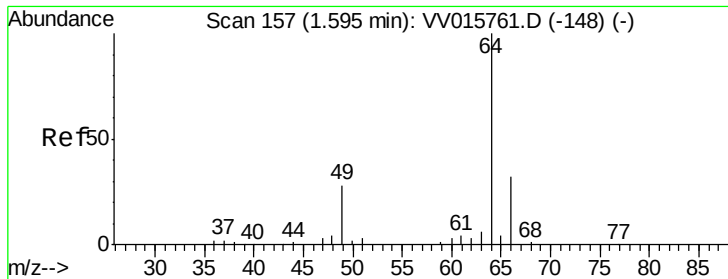
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Apr 29 03:36:29 2020
Response via : Initial Calibration





#8

Chloroethane

Concen: 0.116 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.01 min

Lab File: VV015773.D

Acq: 29 Apr 2020 02:14

Instrument :

MSVOA_V

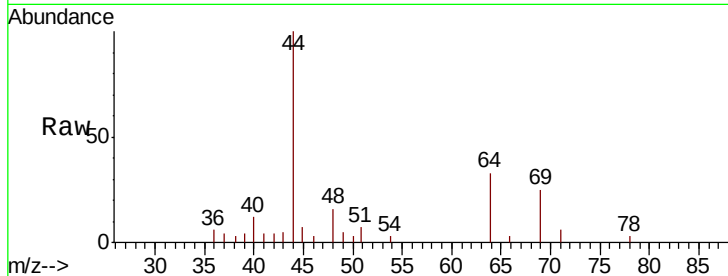
ClientSampleId :

Tot Ion: 64 Resp: 693

Ion Ratio Lower Upper

64 100

66 9.7 22.3 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

1500

1000

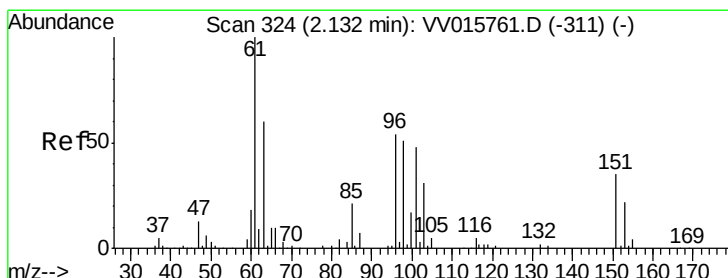
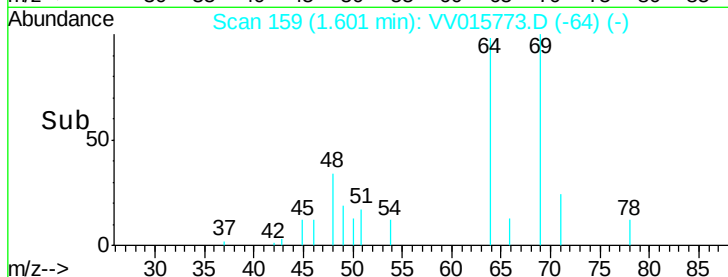
500

0

1.60

1.65

Time-->



#12

1,1-Dichloroethene

Concen: 0.095 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV015773.D

Acq: 29 Apr 2020 02:14

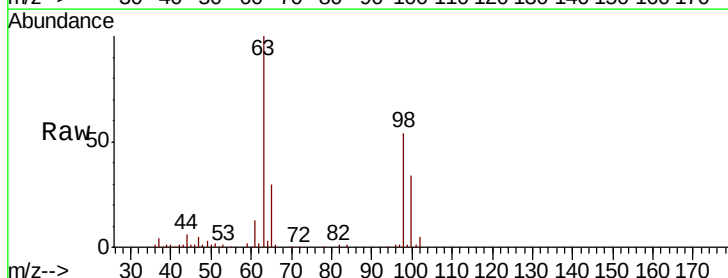
Tgt Ion: 96 Resp: 635

Ion Ratio Lower Upper

96 100

61 1299.1 130.1 241.7#

63 9710.9 91.4 169.8#



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

50000

40000

30000

20000

10000

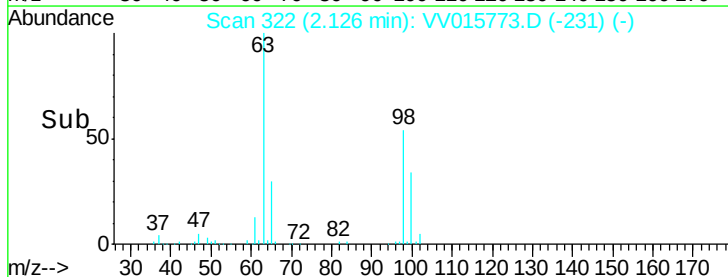
0

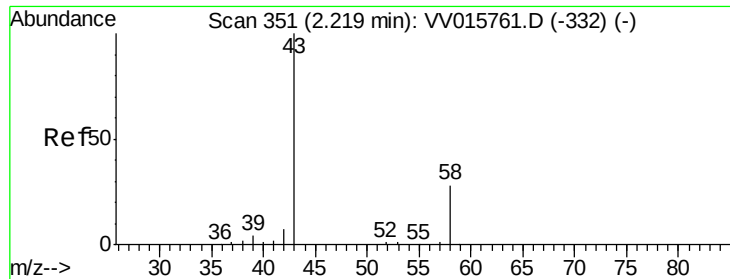
2.10

2.13

2.15

Time-->





#13

Acetone

Concen: 3.186 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.03 min

Lab File: VV015773.D

Acq: 29 Apr 2020 02:14

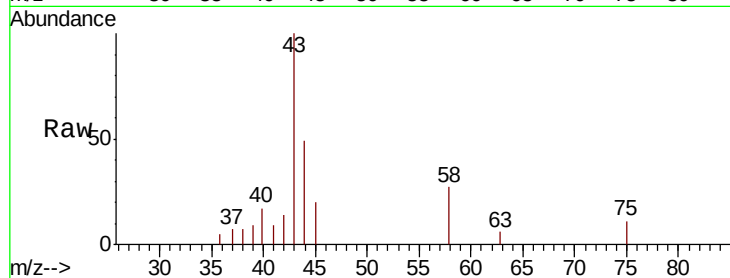
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 4254

Ion Ratio Lower Upper

43 100

58 30.2 0.0 57.6



Abundance Ion 43.05 (42.75 to 43.75): VV015773.D (-258) (-)

Ion 58.05 (57.75 to 58.75): VV015773.D (-258) (-)

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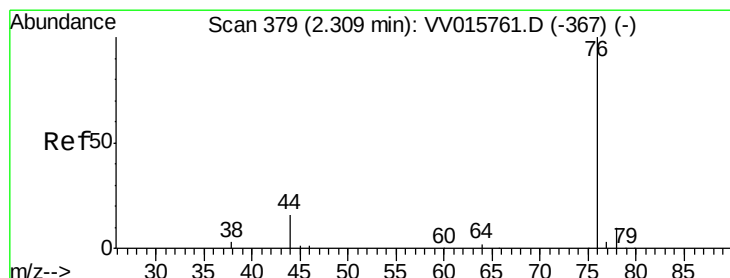
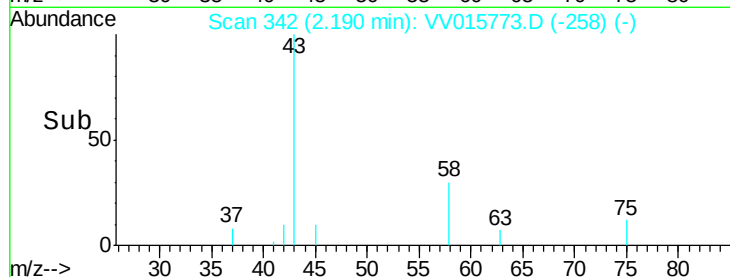
2.19

2.19

2.19

2.19

2.19



#14

Carbon disulfide

Concen: 0.129 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV015773.D

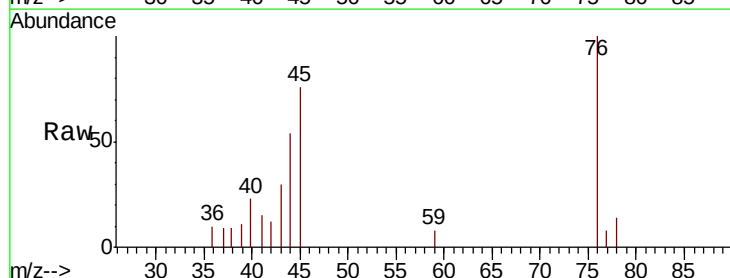
Acq: 29 Apr 2020 02:14

Tgt Ion: 76 Resp: 2440

Ion Ratio Lower Upper

76 100

78 13.9 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VV015773.D (-286) (-)

Ion 78.00 (77.70 to 78.70): VV015773.D (-286) (-)

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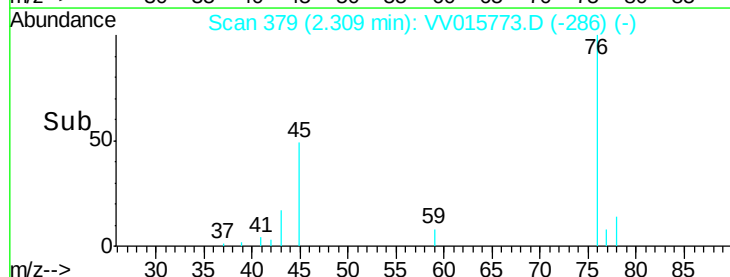
2.31

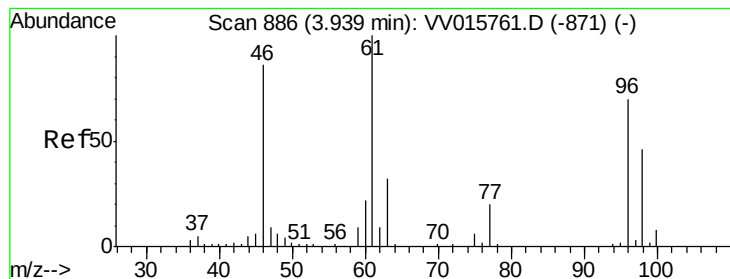
2.31

2.31

2.31

2.31





#22

cis-1,2-Dichloroethene

Concen: 7.596 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV015773.D

Acq: 29 Apr 2020 02:14

Instrument :
MSVOA_V
ClientSampleId :

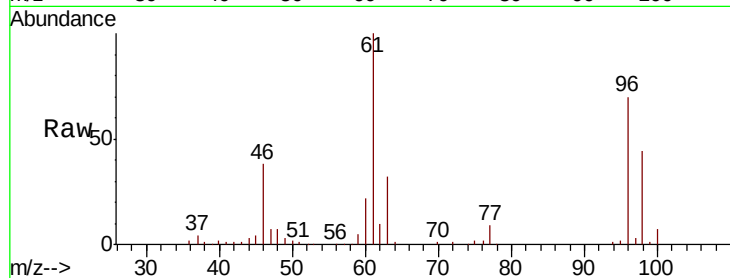
Tot Ion: 96 Resp: 62726

Ion Ratio Lower Upper

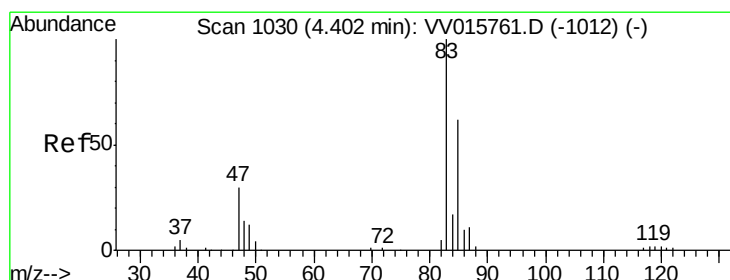
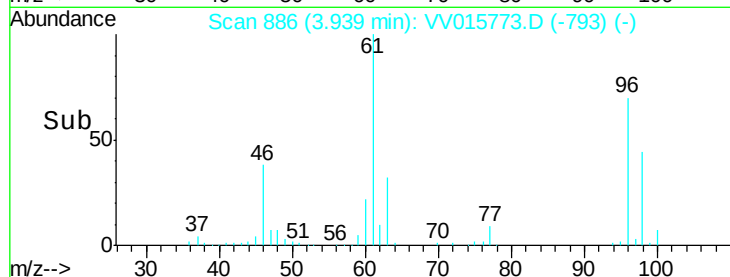
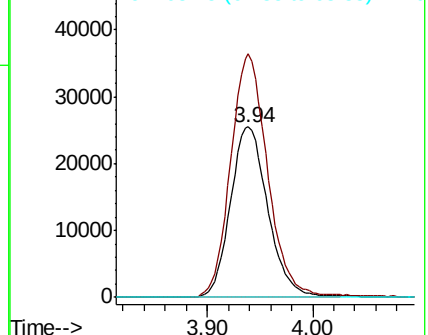
96 100

61 142.9 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: 0.751 ug/L

RT: 4.40 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VV015773.D

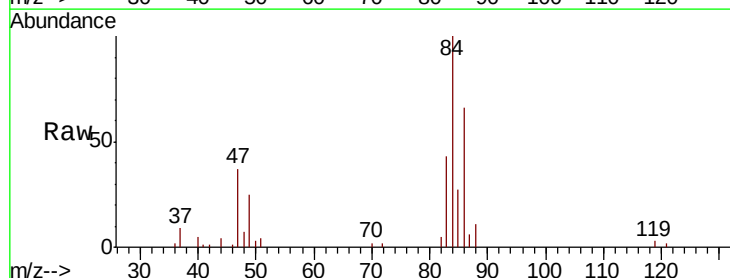
Acq: 29 Apr 2020 02:14

Tgt Ion: 83 Resp: 11693

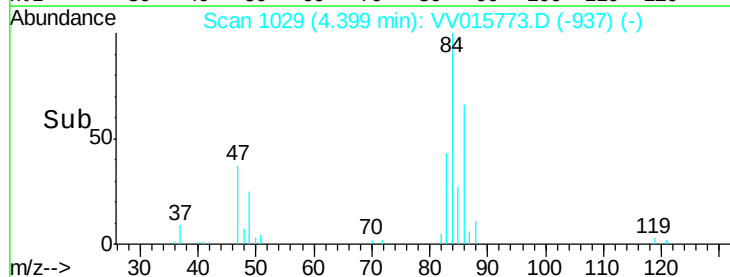
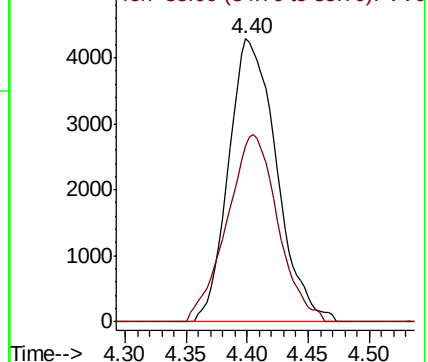
Ion Ratio Lower Upper

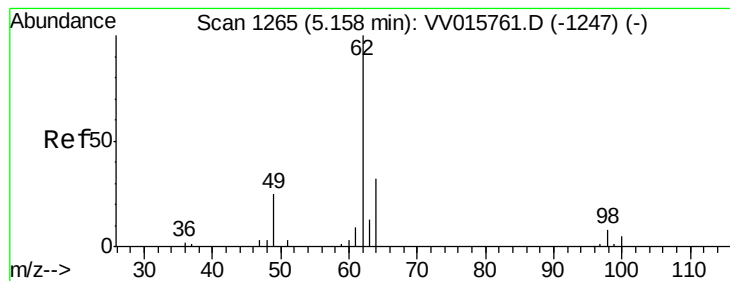
83 100

85 62.0 46.1 85.5



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





#27

1,2-Dichloroethane

Concen: 0.078 ug/L

RT: 5.08 min Scan# 1242

Delta R.T. -0.07 min

Lab File: VV015773.D

Acq: 29 Apr 2020 02:14

Instrument :

MSVOA_V

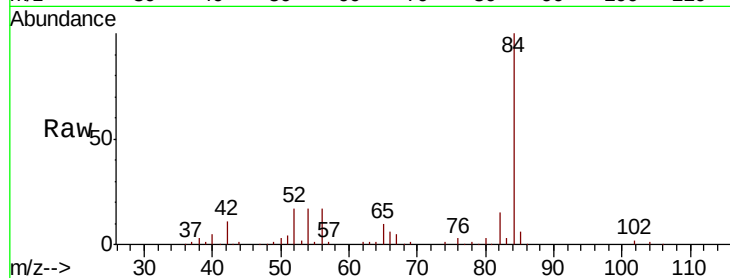
ClientSampleId :

Tot Ion: 62 Resp: 802

Ion Ratio Lower Upper

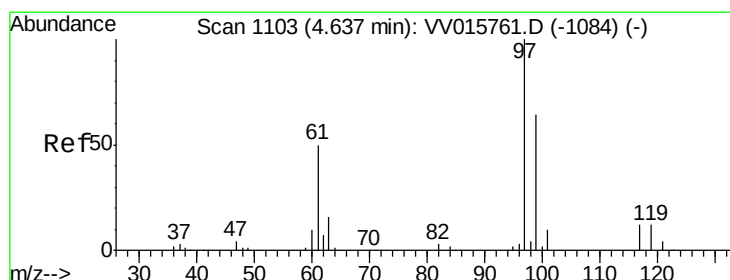
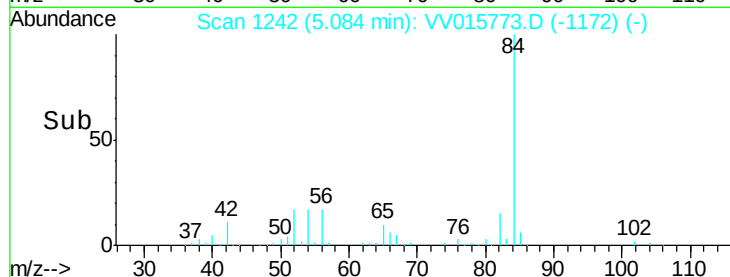
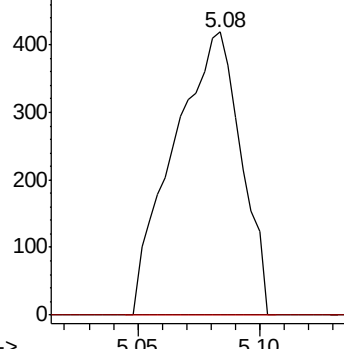
62 100

98 0.0 6.3 9.5#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.05 (97.75 to 98.75): VV0



#29

1,1,1-Trichloroethane

Concen: 0.349 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VV015773.D

Acq: 29 Apr 2020 02:14

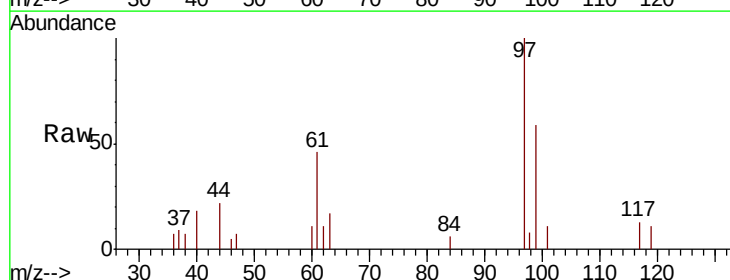
Tgt Ion: 97 Resp: 4844

Ion Ratio Lower Upper

97 100

99 64.6 51.6 77.4

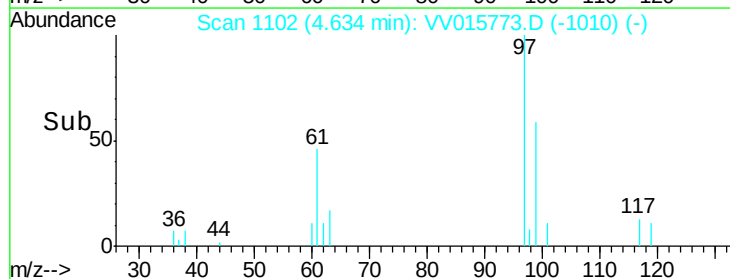
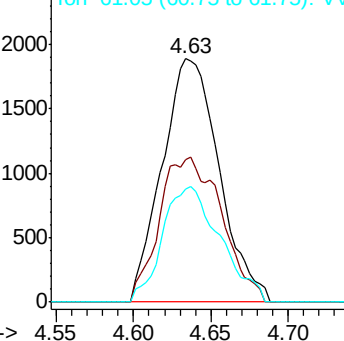
61 47.7 38.6 57.8

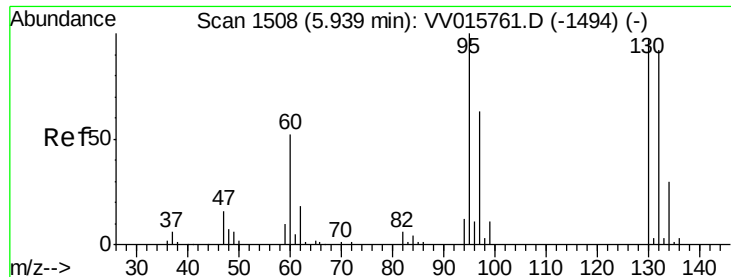


Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0





#34

Trichloroethene

Concen: 2.261 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.00 min

Lab File: VV015773.D

Acq: 29 Apr 2020 02:14

Instrument :

MSVOA_V

ClientSampled :

Tot Ion: 95 Resp: 19534

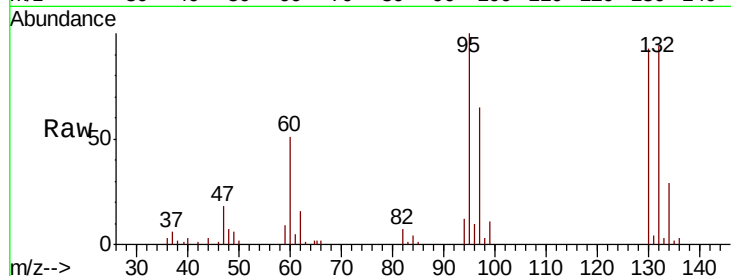
Ion Ratio Lower Upper

95 100

97 65.2 44.7 82.9

132 93.5 65.2 121.0

130 92.8 65.0 120.6

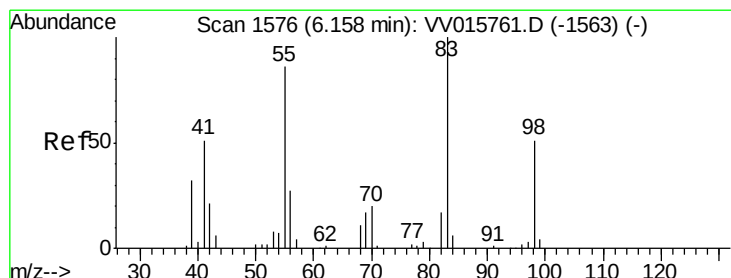
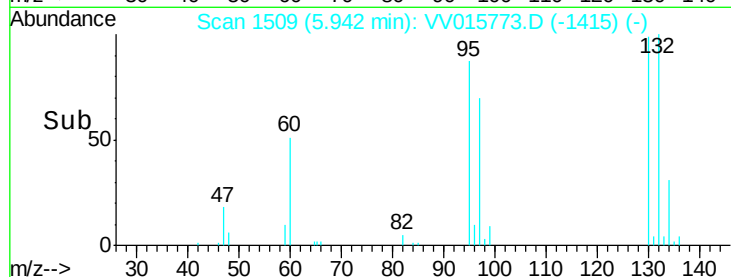
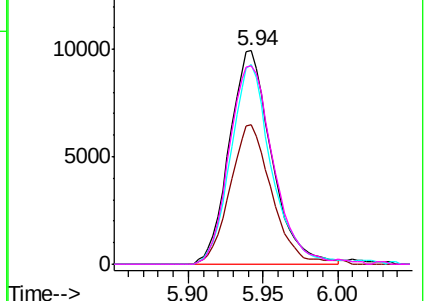


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 0.766 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.06 min

Lab File: VV015773.D

Acq: 29 Apr 2020 02:14

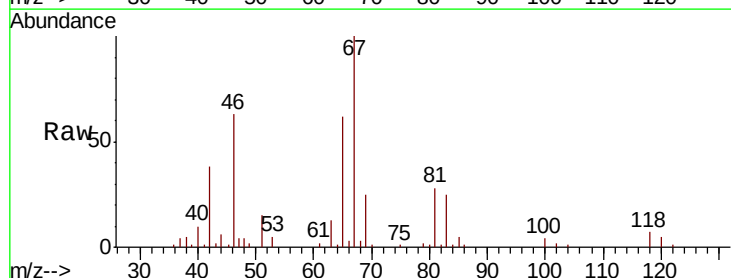
Tgt Ion: 83 Resp: 10156

Ion Ratio Lower Upper

83 100

55 0.2 66.6 99.8#

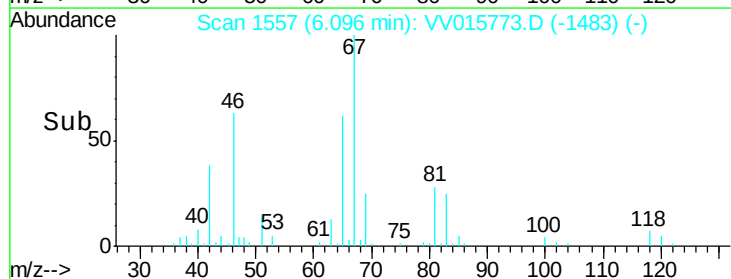
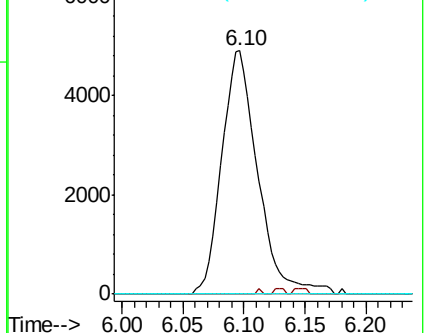
98 0.0 39.5 59.3#

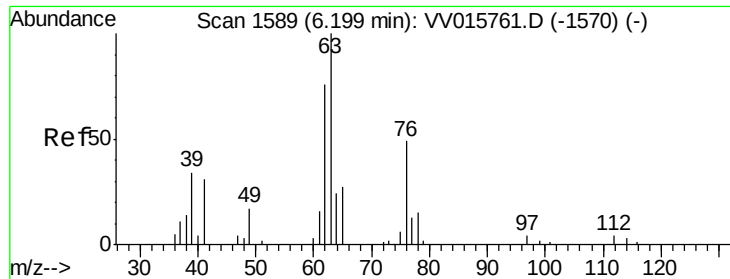


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

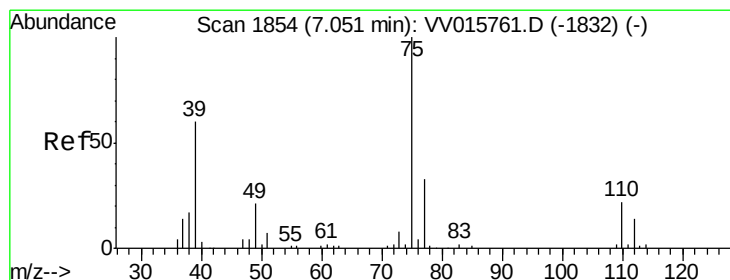
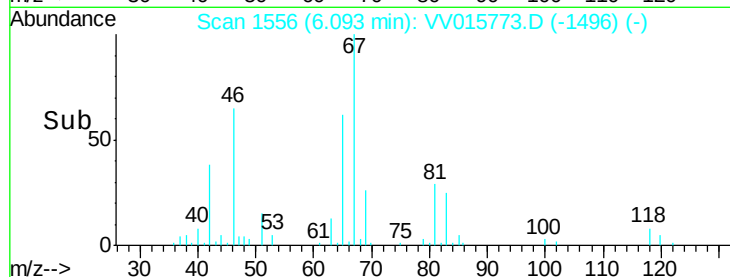
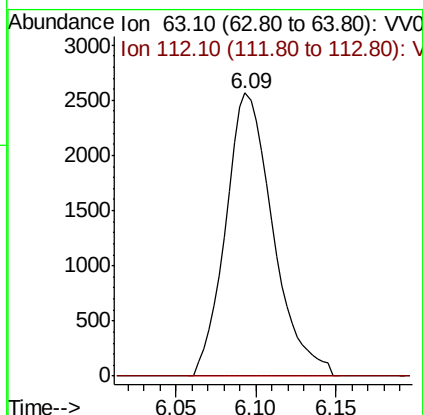
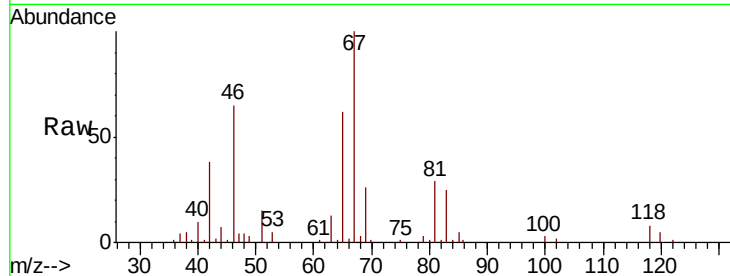




#37
 1,2-Dichloropropane
 Concen: 0.653 ug/L
 RT: 6.09 min Scan# 1556
 Delta R.T. -0.11 min
 Lab File: VV015773.D
 Acq: 29 Apr 2020 02:14

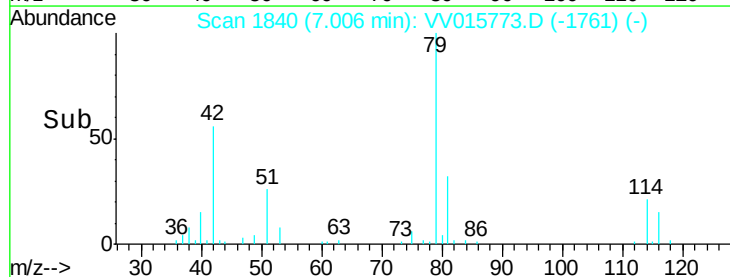
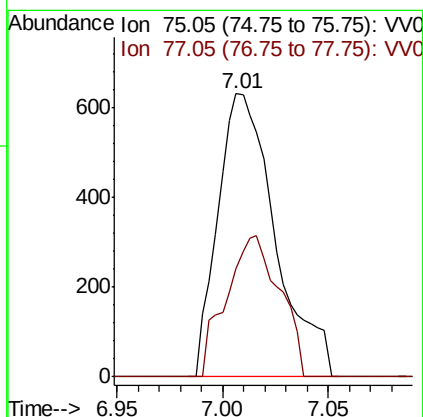
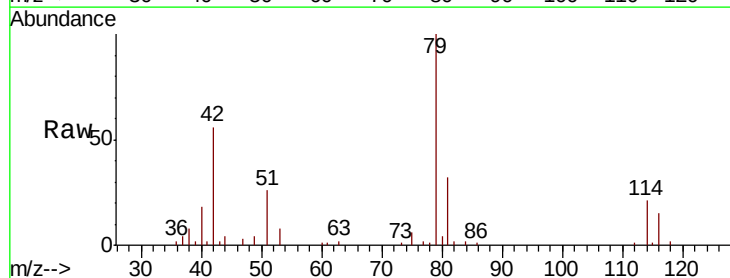
Instrument :
 MSVOA_V
 ClientSampleId :

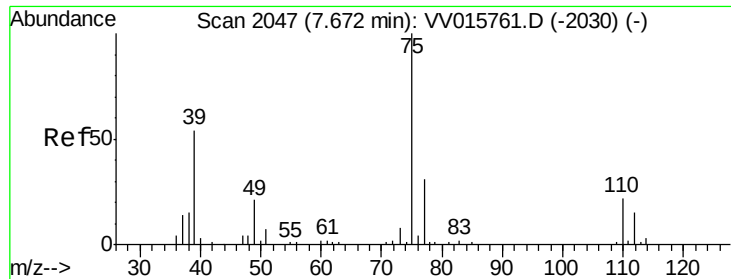
Tot Ion: 63 Resp: 5188
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.108 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.05 min
 Lab File: VV015773.D
 Acq: 29 Apr 2020 02:14

Tgt Ion: 75 Resp: 1194
 Ion Ratio Lower Upper
 75 100
 77 38.3 22.3 41.5





#44

trans-1,3-Dichloropropene

Concen: 0.062 ug/L

RT: 7.65 min Scan# 2041

Delta R.T. -0.02 min

Lab File: VV015773.D

Acq: 29 Apr 2020 02:14

Instrument :

MSVOA_V

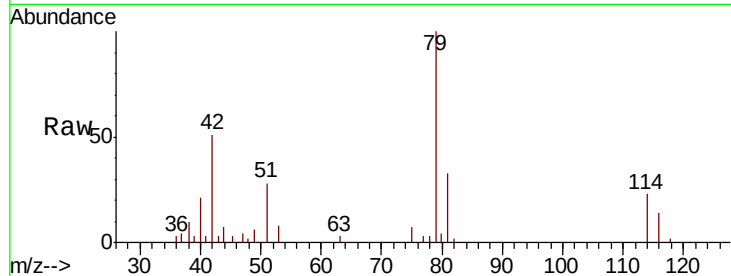
ClientSampled :

Tot Ion: 75 Resp: 575

Ion Ratio Lower Upper

75 100

77 38.5 21.8 40.6



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.65

400

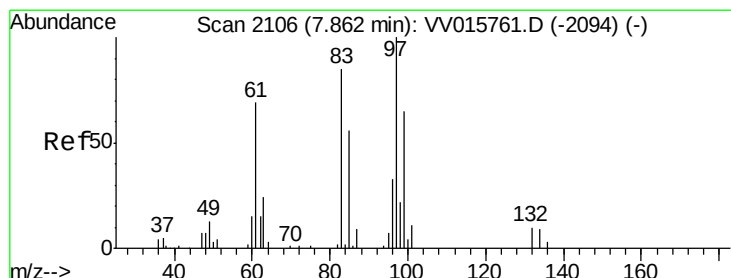
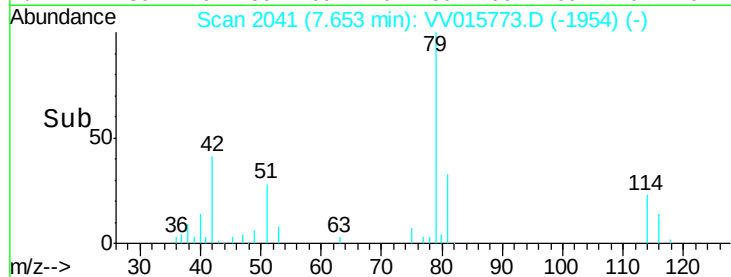
300

200

100

0

Time-->



#45

1,1,2-Trichloroethane

Concen: 32.244 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.16 min

Lab File: VV015773.D

Acq: 29 Apr 2020 02:14

Tgt Ion: 97 Resp: 174728

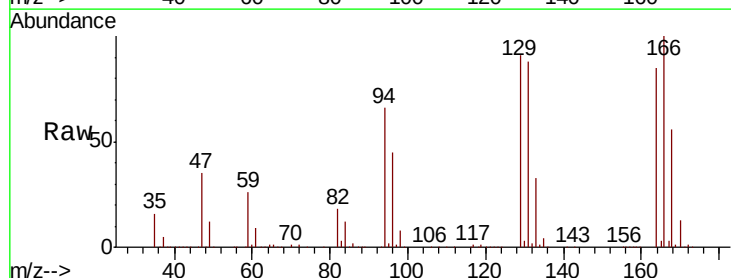
Ion Ratio Lower Upper

97 100

99 15.9 45.4 84.4#

83 273.8 61.3 113.9#

85 38.3 38.4 71.4#



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

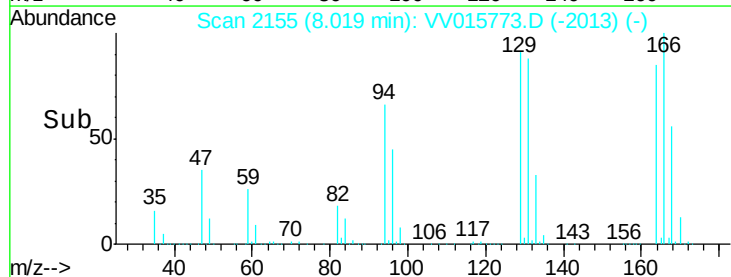
300000

200000

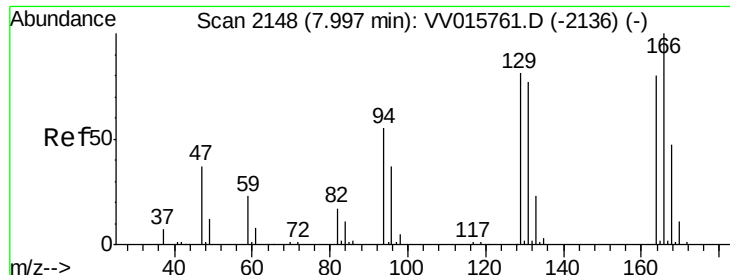
100000

0

Time-->



8.02



#47

Tetrachloroethene

Concen: 2512.830 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. 0.03 min

Lab File: VV015773.D

Acq: 29 Apr 2020 02:14

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp:15628738

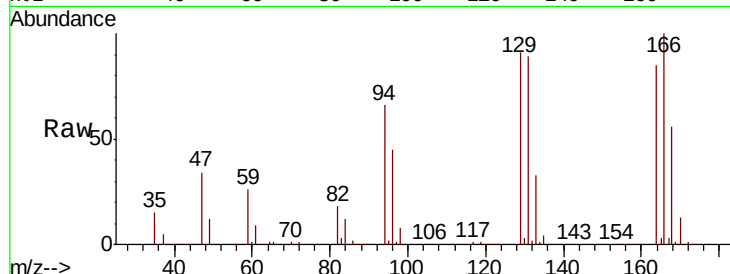
Ion Ratio Lower Upper

164 100

129 107.1 66.7 123.9

131 104.1 66.6 123.6

166 117.5 85.3 158.5



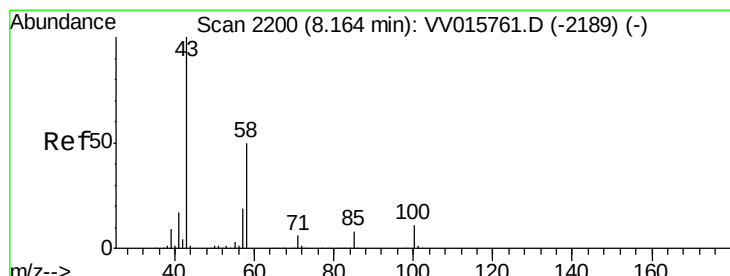
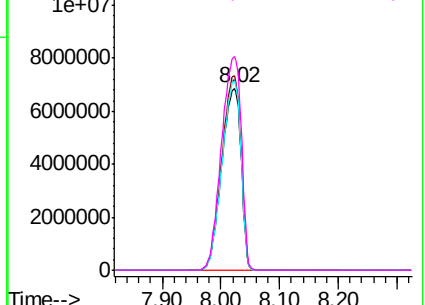
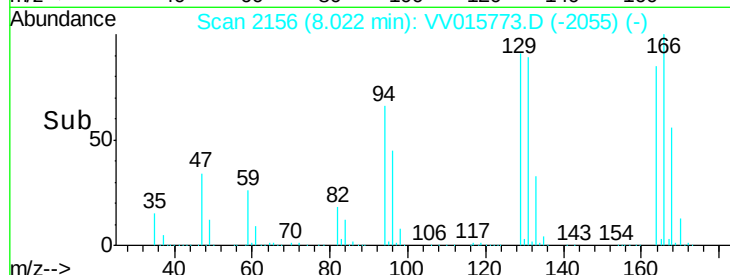
Abundance

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: 0.519 ug/L

RT: 8.17 min Scan# 2203

Delta R.T. 0.01 min

Lab File: VV015773.D

Acq: 29 Apr 2020 02:14

Tgt Ion: 43 Resp: 1911

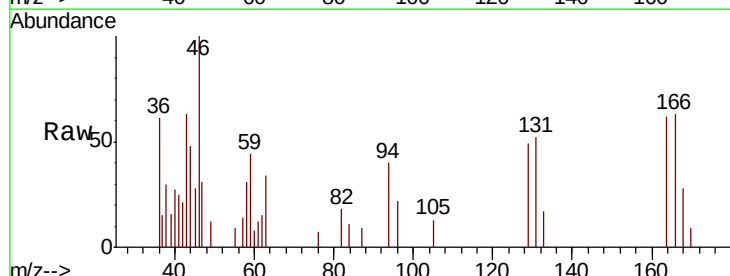
Ion Ratio Lower Upper

43 100

58 49.2 41.1 61.7

57 17.8 15.0 22.4

100 0.0 9.0 13.4#



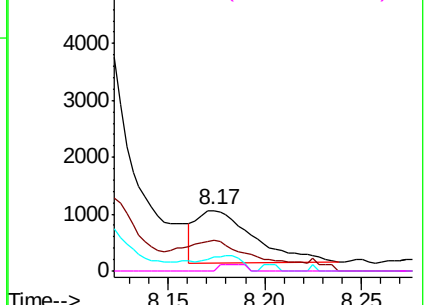
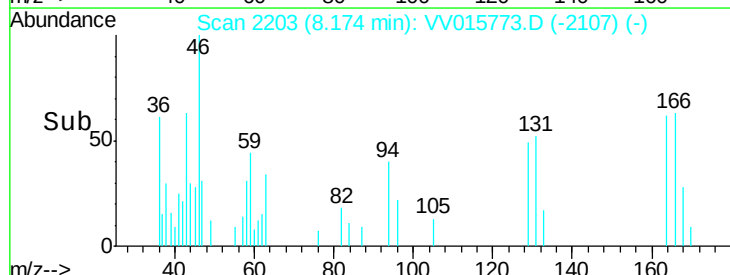
Abundance

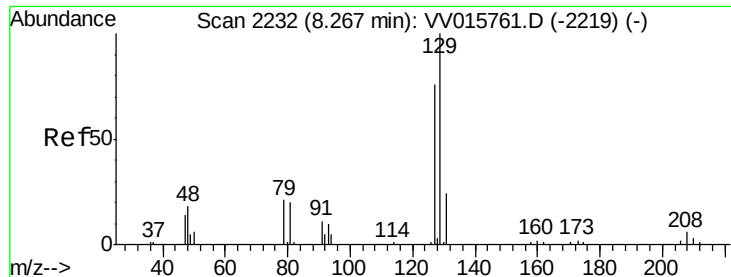
Ion 43.05 (42.75 to 43.75): VV0

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: 2897.651 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. -0.24 min

Lab File: VV015773.D

Acq: 29 Apr 2020 02:14

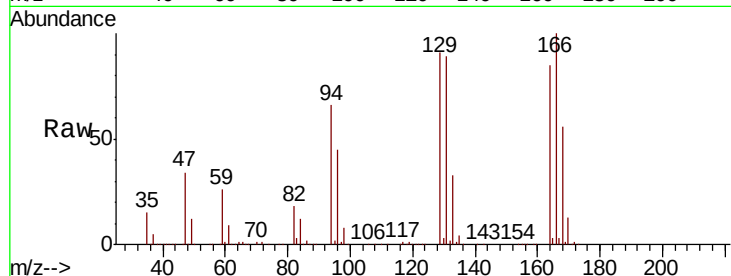
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:129 Resp:16250517

Ion Ratio Lower Upper

129 100

127 0.0 52.6 97.8#

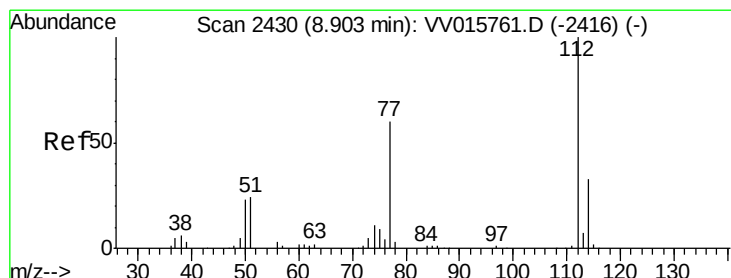
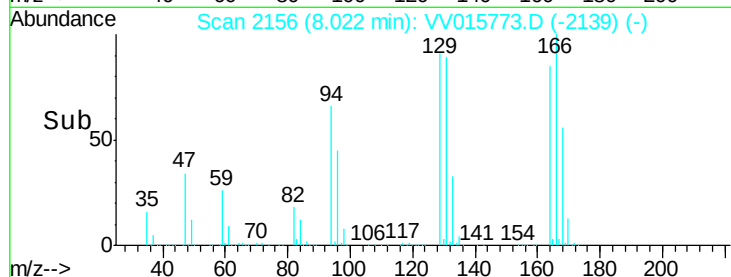


Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.02

Time--> 7.90 8.00 8.10 8.20



#51

Chlorobenzene

Concen: 0.055 ug/L

RT: 8.91 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VV015773.D

Acq: 29 Apr 2020 02:14

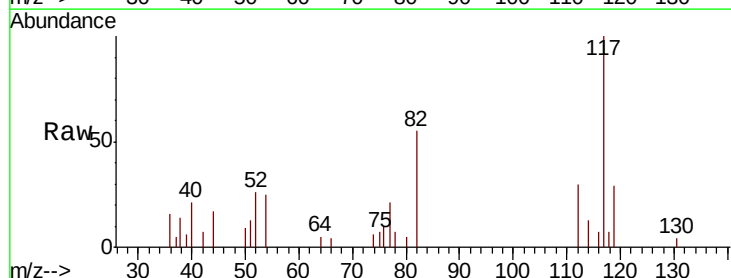
Tgt Ion:112 Resp: 1200

Ion Ratio Lower Upper

112 100

114 43.8 21.6 40.2#

77 69.7 48.9 73.3



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0

8.91

Time--> 8.85 8.90 8.95

