

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062320\
 Data File : VV017055.D
 Acq On : 23 Jun 2020 14:58
 Operator : SY/MD
 Sample : L3067-19DL 25X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXH6DL

Quant Time: Jun 24 05:05:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jun 24 05:01:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	179967	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	176289	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	87905	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	43864	4.06	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	81.20%
7) Chloroethane-d5	1.58	69	35967	4.58	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.60%
11) 1,1-Dichloroethene-d2	2.13	63	118952	5.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	115.80%
20) 2-Butanone-d5	3.93	46	140036	50.87	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.74%
24) Chloroform-d	4.38	84	103969	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.00%
26) 1,2-Dichloroethane-d4	5.06	65	61814	5.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.00%
32) Benzene-d6	5.08	84	212926	4.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.20%
36) 1,2-Dichloropropane-d6	6.10	67	62602	4.57	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.40%
41) Toluene-d8	7.34	98	194378	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.60%
45) trans-1,3-Dichloropropene-	7.64	79	24352	4.27	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.40%
48) 2-Hexanone-d5	8.11	63	84779	39.02	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	78.04%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	43854	4.82	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.40%
65) 1,2-Dichlorobenzene-d4	11.65	152	80718	4.97	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	8657	0.733	ug/L	96
8) Chloroethane	1.60	64	11595	1.777	ug/L	92
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	883	0.093	ug/L #	25
12) 1,1-Dichloroethene	2.14	96	89733	10.389	ug/L #	78
16) Methylene chloride	2.53	84	1685	0.182	ug/L	87
18) trans-1,2-Dichloroethene	2.78	96	1335	0.146	ug/L	85
19) 1,1-Dichloroethane	3.21	63	1666223	81.022	ug/L	99
22) cis-1,2-Dichloroethene	3.94	96	11024	0.881	ug/L	88
25) Chloroform	4.40	83	10218	0.455	ug/L	99
27) 1,2-Dichloroethane	5.16	62	1993	0.143	ug/L #	75
29) 1,1,1-Trichloroethane	4.64	97	6038482	285.904	ug/L	98
31) Carbon tetrachloride	4.64	117	740724	38.867	ug/L	100
34) Trichloroethene	5.94	95	1540	0.114	ug/L	91
35) Methylcyclohexane	6.10	83	17227	0.820	ug/L #	17
37) 1,2-Dichloropropane	6.10	63	8286	0.725	ug/L #	87
40) 4-Methyl-2-pentanone	7.16	43	13748	2.083	ug/L #	46
42) Toluene	7.41	91	6418	0.120	ug/L	96

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Misc : 25.0mL/MSVOA V/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFXH6DL

Quant Time: Jun 24 05:05:39 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jun 24 05:01:54 2020
Response via : Initial Calibration

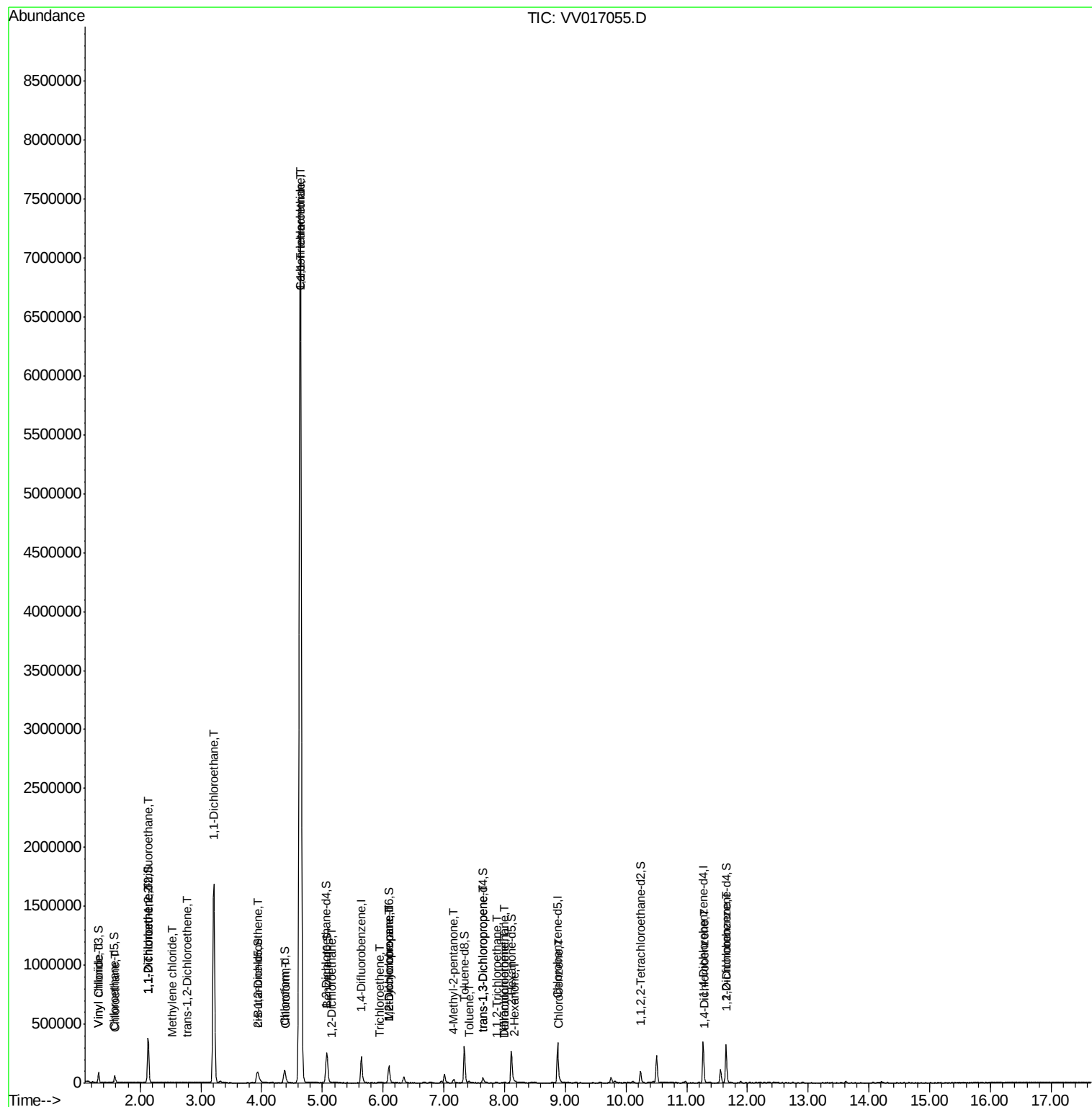
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) trans-1,3-Dichloropropene	7.64	75	1367	0.093	ug/L #	83
47) 1,1,2-Trichloroethane	7.87	97	1288	0.159	ug/L	90
49) Tetrachloroethene	8.00	164	1255	0.115	ug/L #	68
50) 2-Hexanone	8.17	43	7016	1.494	ug/L #	80
51) Dibromochloromethane	8.00	129	888	0.090	ug/L #	11
53) Chlorobenzene	8.90	112	14778	0.442	ug/L	95
64) 1,4-Dichlorobenzene	11.30	146	1880	0.070	ug/L #	86
66) 1,2-Dichlorobenzene	11.67	146	6874	0.286	ug/L #	79

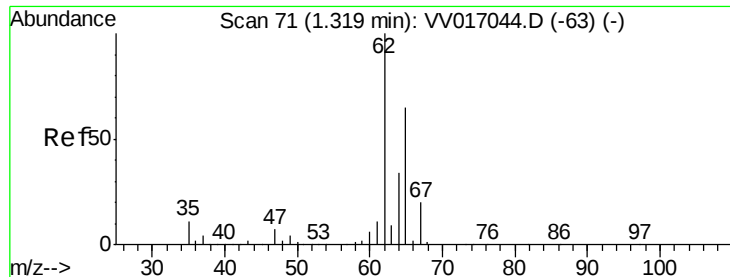
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.733 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV017055.D

Acq: 23 Jun 2020 14:58

Instrument :

MSVOA_V

ClientSampleId :

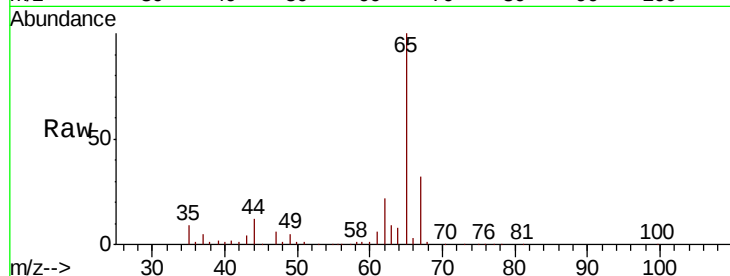
BFXH6DL

Tot Ion: 62 Resp: 8657

Ion Ratio Lower Upper

62 100

64 34.4 22.5 41.7



Abundance Ion 62.00 (61.70 to 62.70): VV017044.D (-63) (-)

Ion 64.10 (63.80 to 64.80): VV017055.D (-64) (-)

1.32

8000

6000

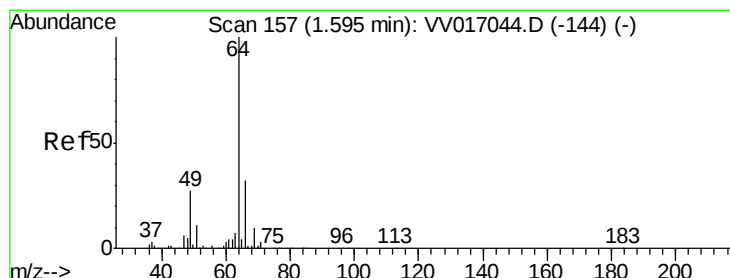
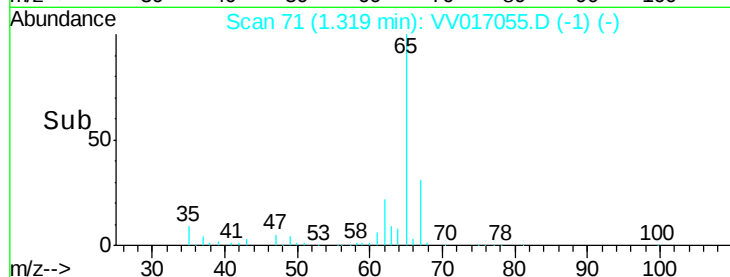
4000

2000

0

1.30 1.35

Time-->



#8

Chloroethane

Concen: 1.777 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV017055.D

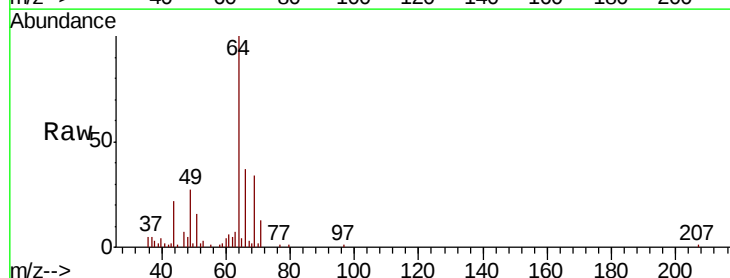
Acq: 23 Jun 2020 14:58

Tgt Ion: 64 Resp: 11595

Ion Ratio Lower Upper

64 100

66 37.2 22.8 42.4



Abundance Ion 64.10 (63.80 to 64.80): VV017044.D (-144) (-)

Ion 66.05 (65.75 to 66.75): VV017055.D (-64) (-)

1.60

12000

10000

8000

6000

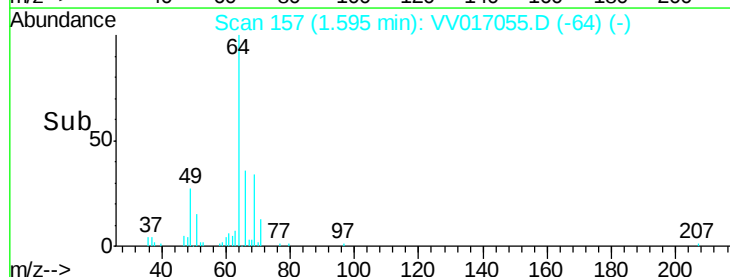
4000

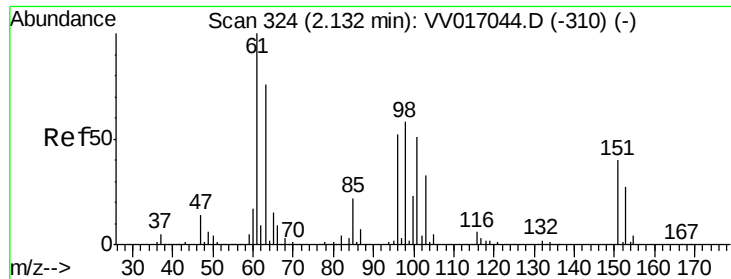
2000

0

1.55 1.60

Time-->





#10

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

Concen: 0.093 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV017055.D

Acq: 23 Jun 2020 14:58

Instrument :

MSVOA_V

ClientSampled :

BFXH6DL

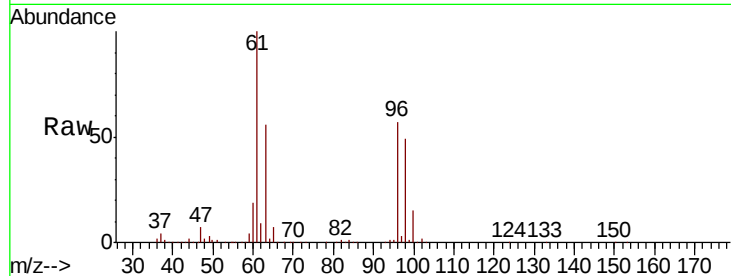
Tot Ion:101 Resp: 883

Ion Ratio Lower Upper

101 100

85 14.5 35.4 53.2#

151 0.0 63.9 95.9#

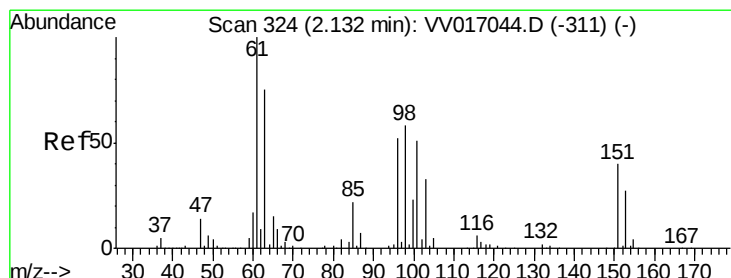
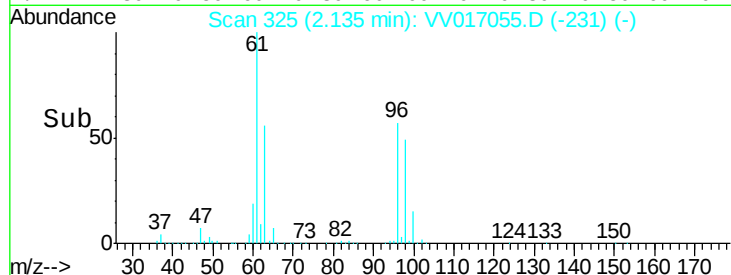
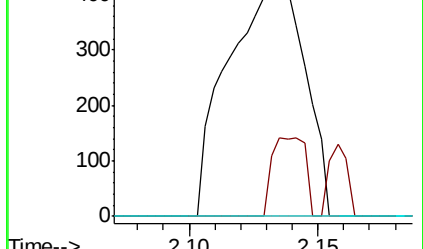


Abundance Ion 101.00 (100.70 to 101.70): VV017044.D (-310) (-)

Ion 85.00 (84.70 to 85.70): VV017044.D (-310) (-)

Ion 151.00 (150.70 to 151.70): VV017044.D (-310) (-)

Time-->



#12

1,1-Dichloroethene

Concen: 10.389 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV017055.D

Acq: 23 Jun 2020 14:58

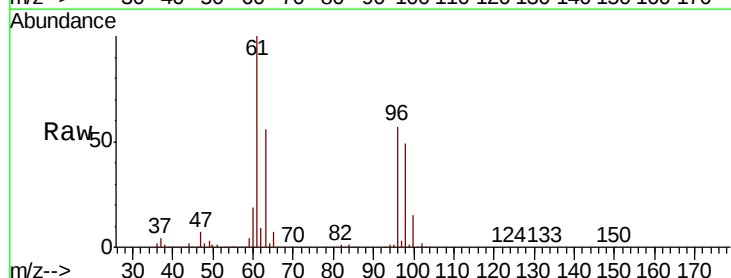
Tgt Ion: 96 Resp: 89733

Ion Ratio Lower Upper

96 100

61 175.5 125.0 232.2

63 97.7 109.8 203.8#

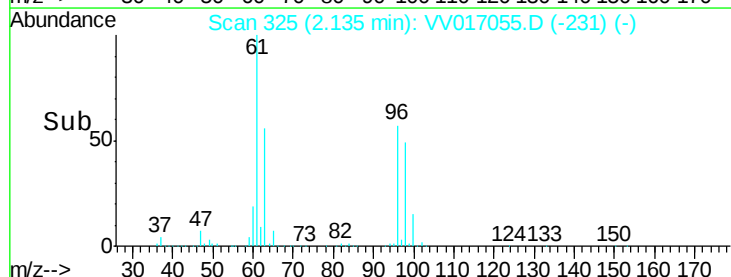
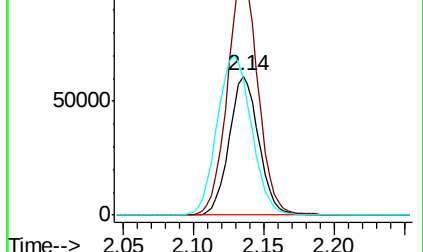


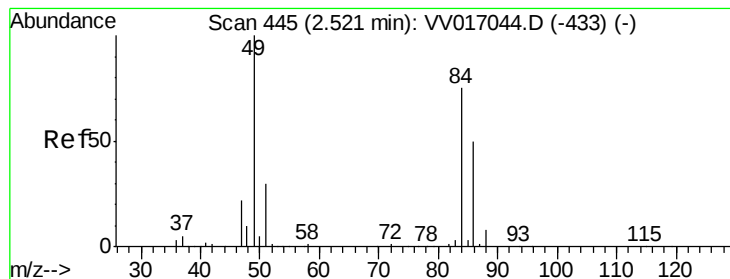
Abundance Ion 96.00 (95.70 to 96.70): VV017044.D (-311) (-)

Ion 61.05 (60.75 to 61.75): VV017044.D (-311) (-)

Ion 63.00 (62.70 to 63.70): VV017044.D (-311) (-)

Time-->





#16

Methylene chloride

Concen: 0.182 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.01 min

Lab File: VV017055.D

Acq: 23 Jun 2020 14:58

Instrument :

MSVOA_V

ClientSampled :

BFXH6DL

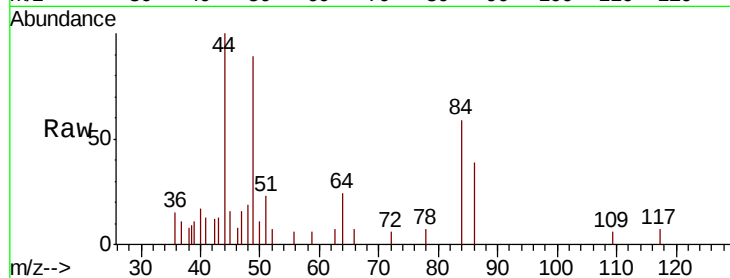
Tot Ion: 84 Resp: 1685

Ion Ratio Lower Upper

84 100

86 65.6 45.8 85.0

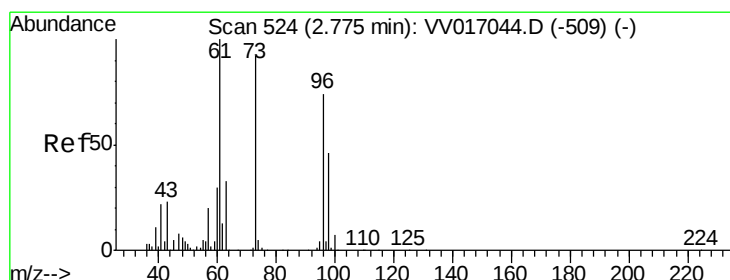
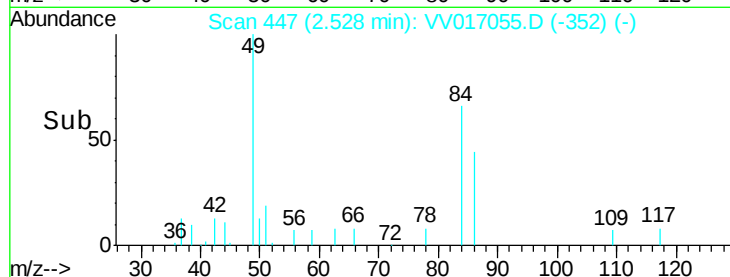
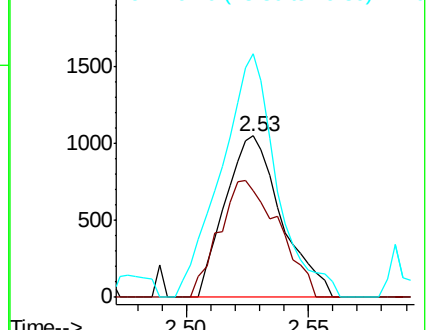
49 150.7 89.6 166.4



Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0



#18

trans-1,2-Dichloroethene

Concen: 0.146 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV017055.D

Acq: 23 Jun 2020 14:58

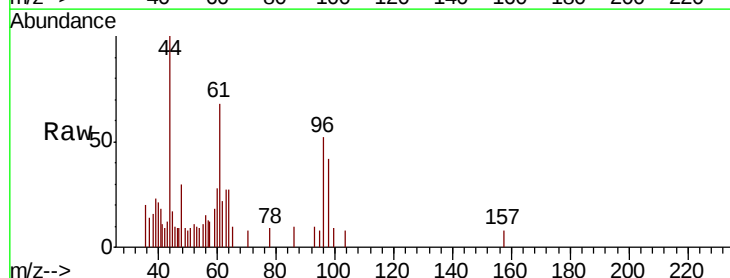
Tgt Ion: 96 Resp: 1335

Ion Ratio Lower Upper

96 100

61 131.0 102.3 189.9

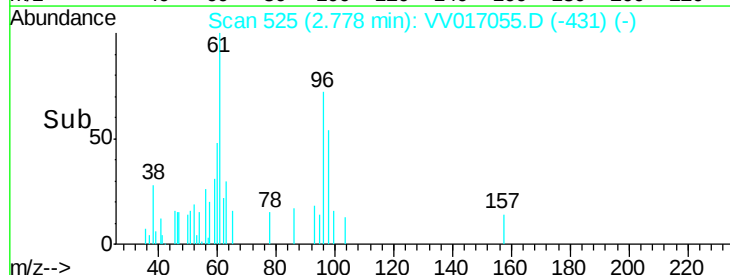
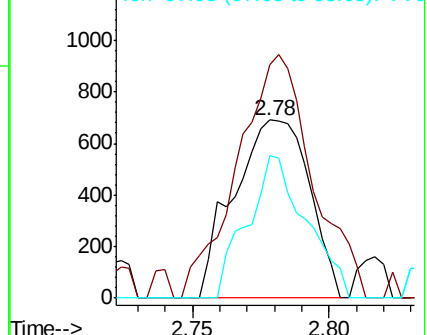
98 80.3 44.7 82.9

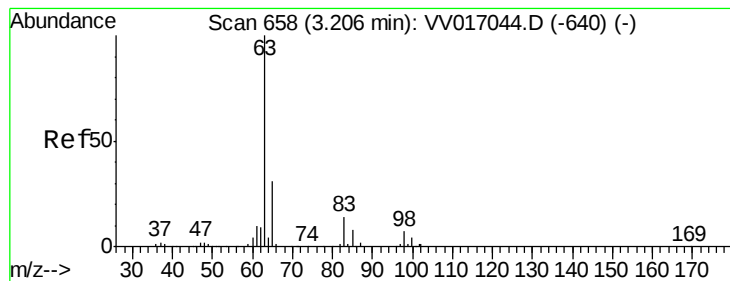


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0





#19

1,1-Dichloroethane

Concen: 81.022 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.01 min

Lab File: VV017055.D

Acq: 23 Jun 2020 14:58

Instrument :

MSVOA_V

ClientSampled :

BFXH6DL

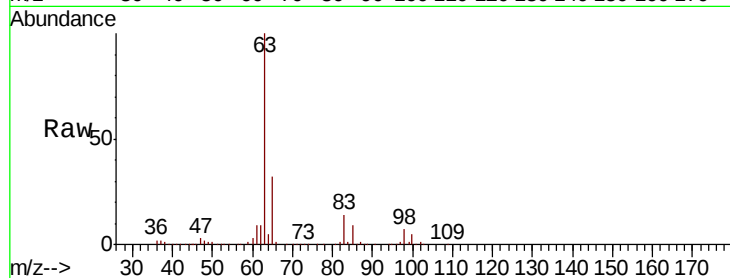
Tot Ion: 63 Resp: 1666223

Ion Ratio Lower Upper

63 100

65 31.8 21.8 40.4

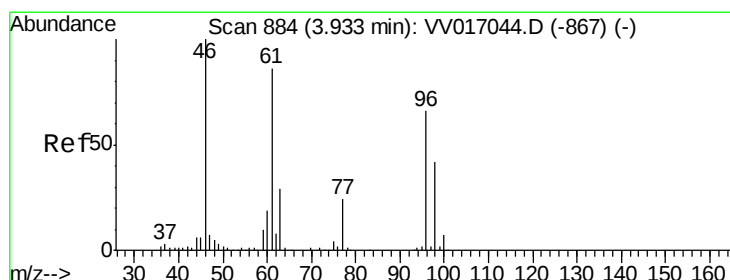
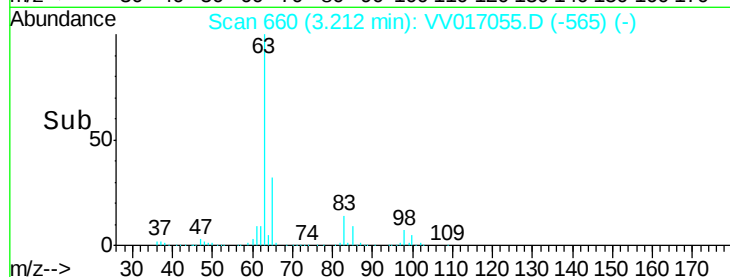
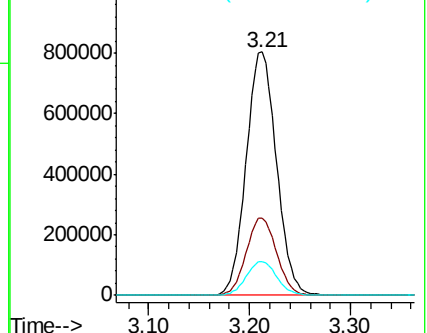
83 13.9 9.7 17.9



Abundance Ion 63.10 (62.80 to 63.80): VV017044.D (-640) (-)

Ion 65.10 (64.80 to 65.80): VV017044.D (-640) (-)

Ion 83.05 (82.75 to 83.75): VV017044.D (-640) (-)



#22

cis-1,2-Dichloroethene

Concen: 0.881 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.01 min

Lab File: VV017055.D

Acq: 23 Jun 2020 14:58

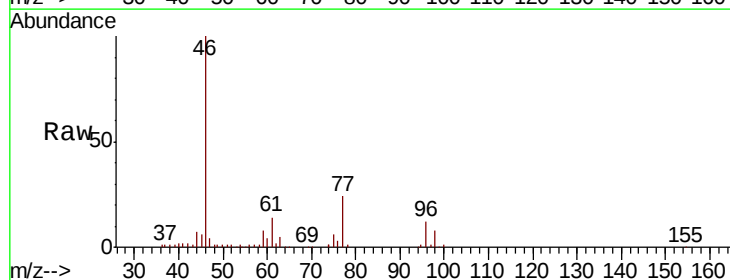
Tgt Ion: 96 Resp: 11024

Ion Ratio Lower Upper

96 100

61 115.7 91.0 169.0

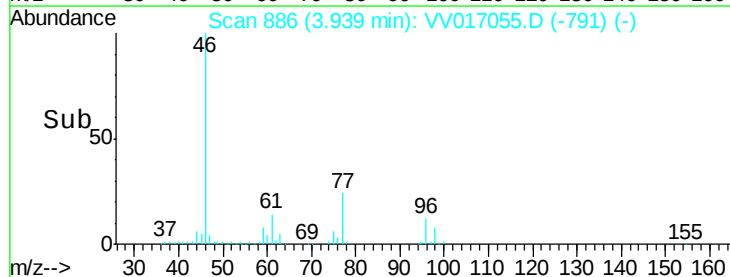
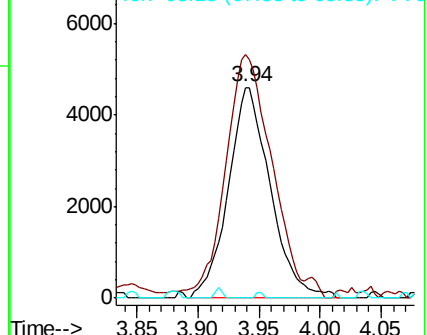
68 0.0 0.0 0.0

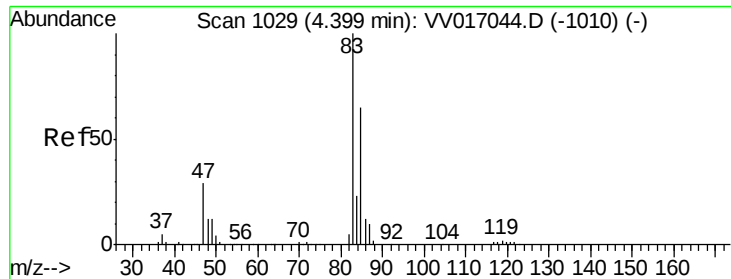


Abundance Ion 96.00 (95.70 to 96.70): VV017044.D (-867) (-)

Ion 61.05 (60.75 to 61.75): VV017044.D (-867) (-)

Ion 68.15 (67.85 to 68.85): VV017044.D (-867) (-)

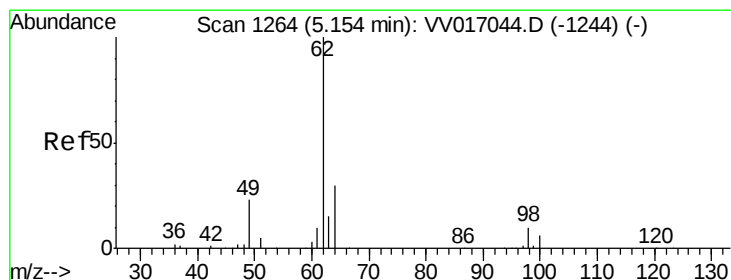
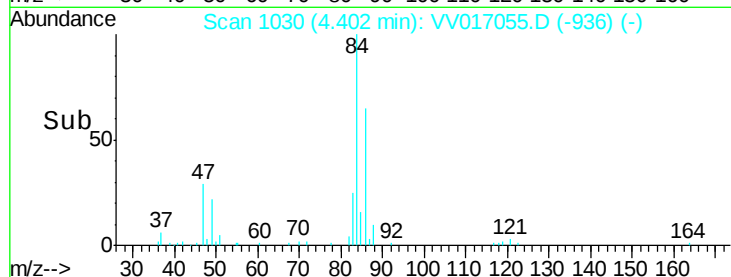
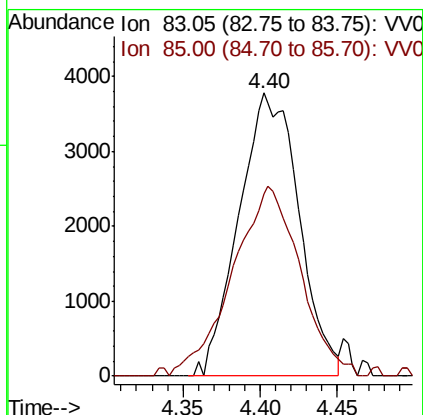
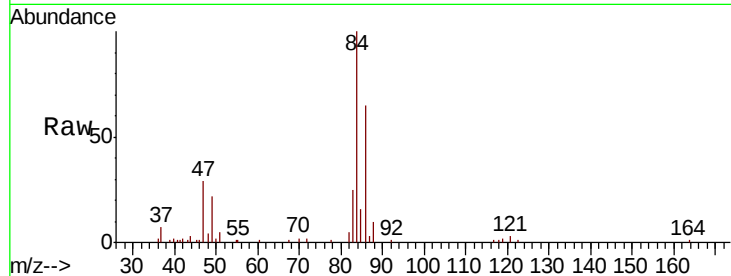




#25
Chloroform
Concen: 0.455 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV017055.D
Acq: 23 Jun 2020 14:58

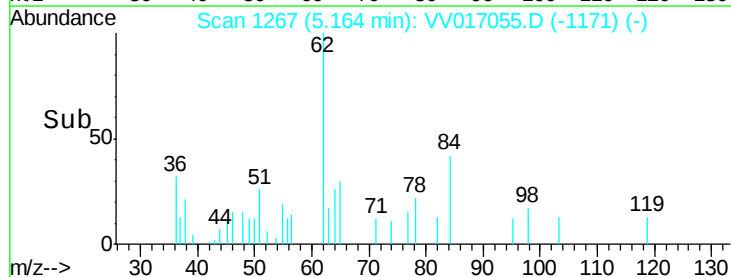
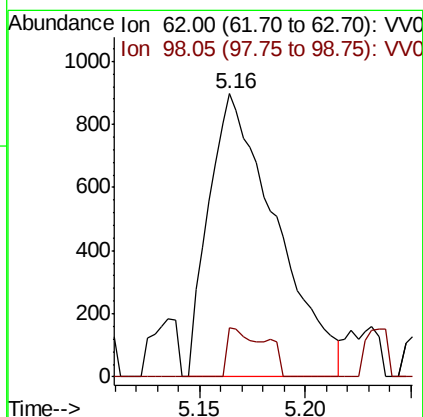
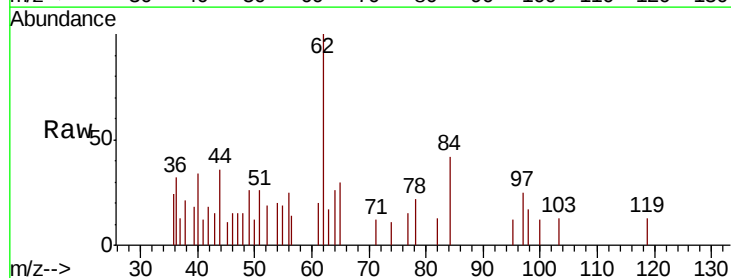
Instrument :
MSVOA_V
ClientSampleId :
BFXH6DL

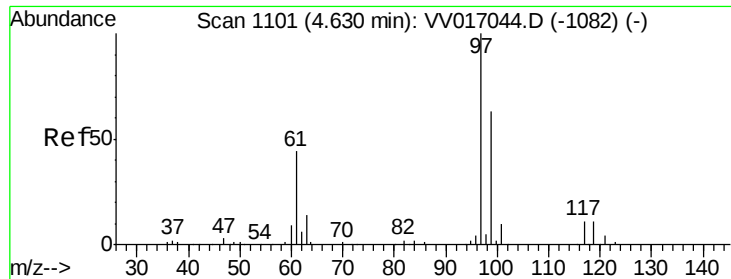
Tot Ion: 83 Resp: 10218
Ion Ratio Lower Upper
83 100
85 64.4 44.2 82.2



#27
1,2-Dichloroethane
Concen: 0.143 ug/L
RT: 5.16 min Scan# 1267
Delta R.T. 0.01 min
Lab File: VV017055.D
Acq: 23 Jun 2020 14:58

Tgt Ion: 62 Resp: 1993
Ion Ratio Lower Upper
62 100
98 17.3 6.7 10.1#

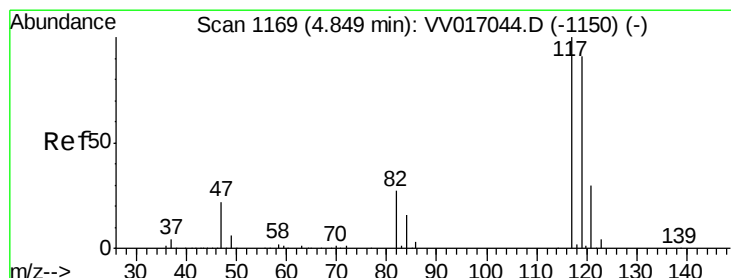
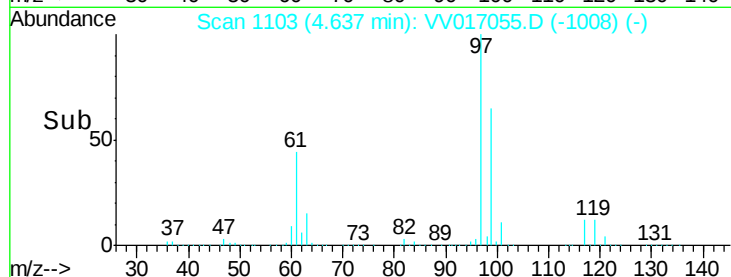
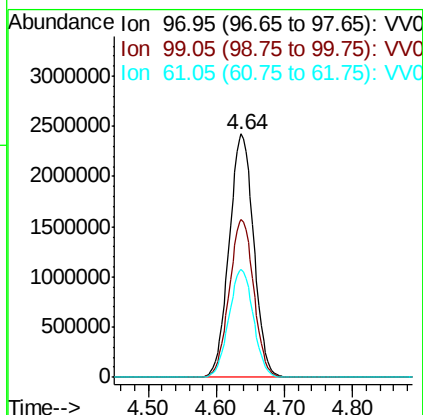
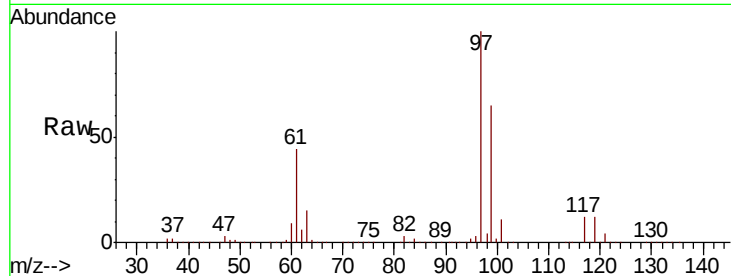




#29
 1,1,1-Trichloroethane
 Concen: 285.904 ug/L
 RT: 4.64 min Scan# 1103
 Delta R.T. 0.01 min
 Lab File: VV017055.D
 Acq: 23 Jun 2020 14:58

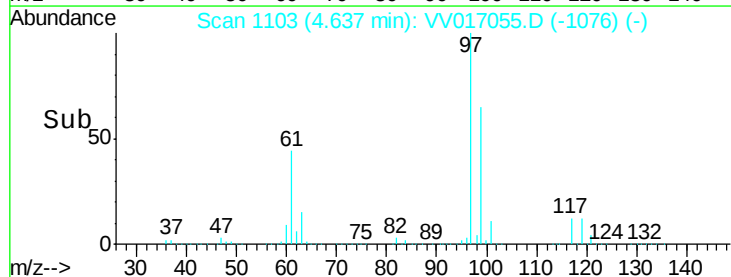
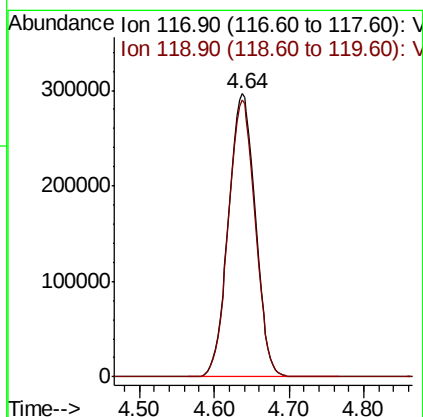
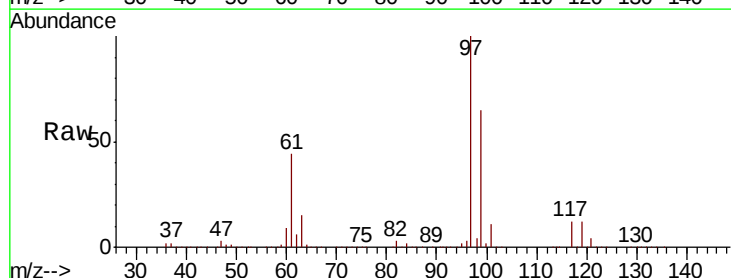
Instrument :
 MSVOA_V
 ClientSampleId :
 BFXH6DL

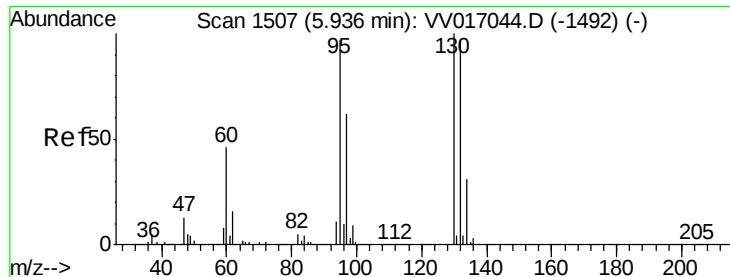
Tot Ion: 97 Resp: 6038482
 Ion Ratio Lower Upper
 97 100
 99 64.6 50.3 75.5
 61 44.2 36.0 54.0



#31
 Carbon tetrachloride
 Concen: 38.867 ug/L
 RT: 4.64 min Scan# 1103
 Delta R.T. -0.21 min
 Lab File: VV017055.D
 Acq: 23 Jun 2020 14:58

Tgt Ion: 117 Resp: 740724
 Ion Ratio Lower Upper
 117 100
 119 97.3 77.8 116.8





#34

Trichloroethene

Concen: 0.114 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV017055.D

Acq: 23 Jun 2020 14:58

Instrument :

MSVOA_V

ClientSampleId :

BFXH6DL

Tot Ion: 95 Resp: 1540

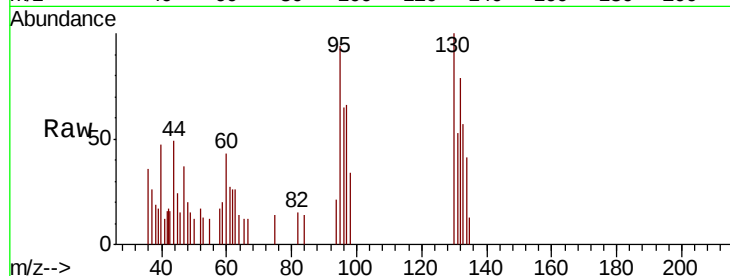
Ion Ratio Lower Upper

95 100

97 69.9 45.3 84.1

132 84.1 68.8 127.8

130 106.3 70.2 130.4

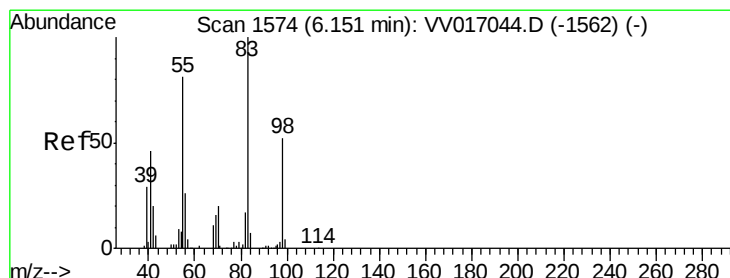
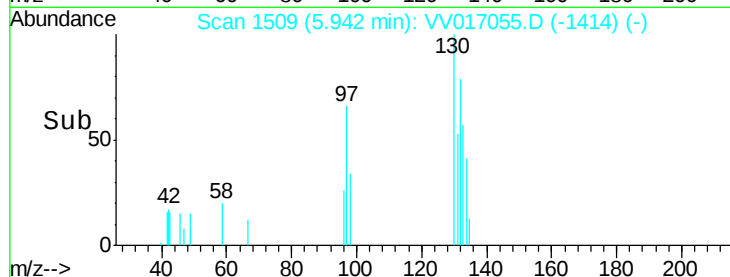
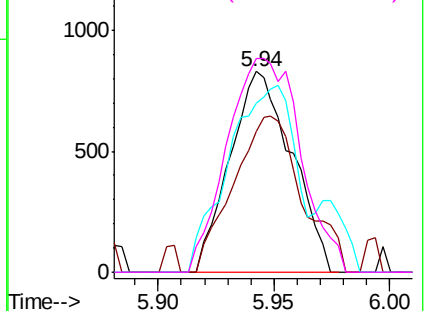


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 0.820 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.05 min

Lab File: VV017055.D

Acq: 23 Jun 2020 14:58

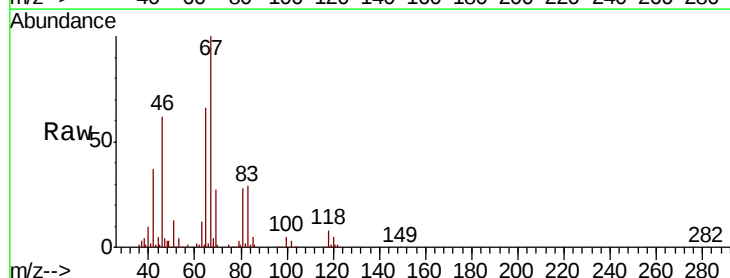
Tgt Ion: 83 Resp: 17227

Ion Ratio Lower Upper

83 100

55 0.0 63.6 95.4#

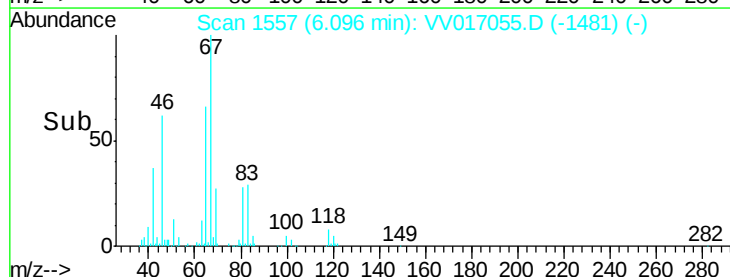
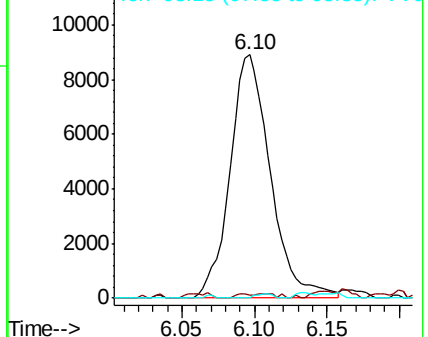
98 0.7 38.8 58.2#

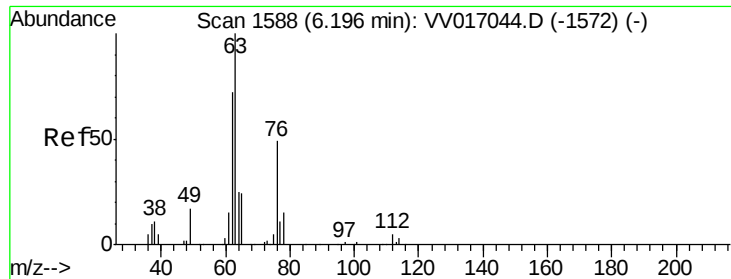


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 0.725 ug/L

RT: 6.10 min Scan# 1558

Delta R.T. -0.10 min

Lab File: VV017055.D

Acq: 23 Jun 2020 14:58

Instrument :

MSVOA_V

ClientSampleId :

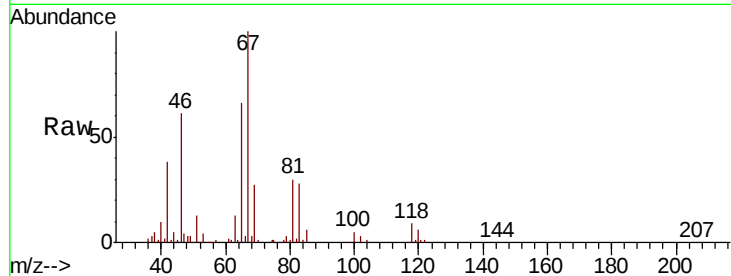
BFXH6DL

Tot Ion: 63 Resp: 8286

Ion Ratio Lower Upper

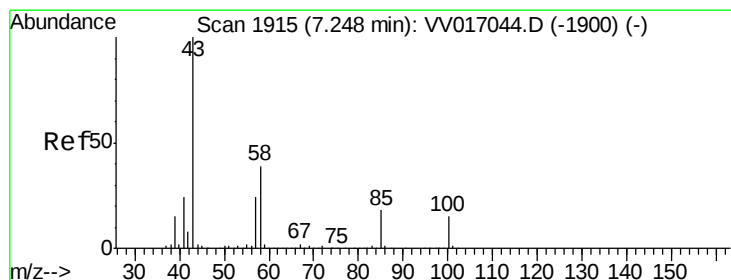
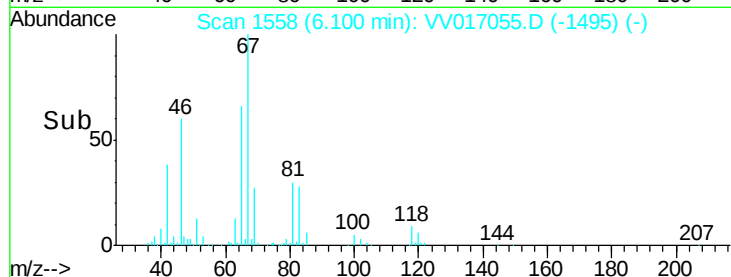
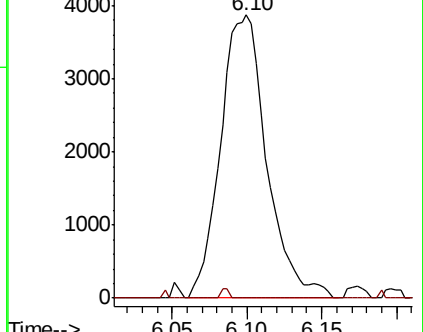
63 100

112 1.0 4.4 6.6#



Abundance Ion 63.10 (62.80 to 63.80): VV017044.D (-1572) (-)

Ion 112.10 (111.80 to 112.80): VV017044.D (-1572) (-)



#40

4-Methyl-2-pentanone

Concen: 2.083 ug/L

RT: 7.16 min Scan# 1889

Delta R.T. -0.08 min

Lab File: VV017055.D

Acq: 23 Jun 2020 14:58

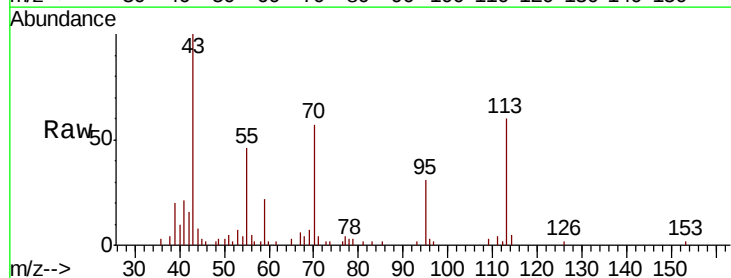
Tgt Ion: 43 Resp: 13748

Ion Ratio Lower Upper

43 100

58 1.0 30.4 45.6#

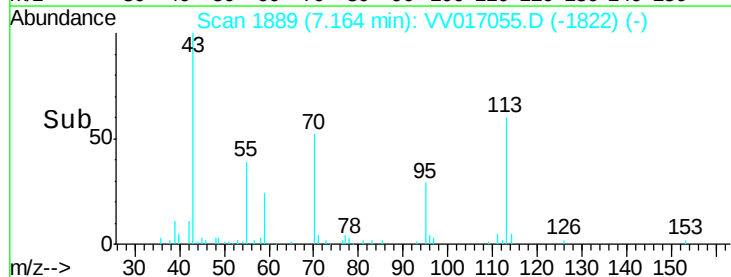
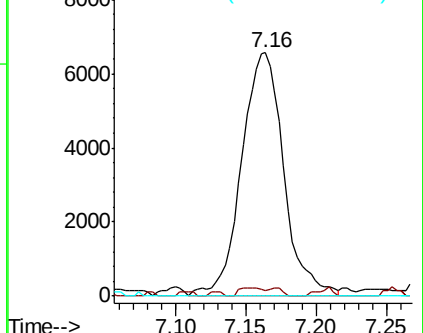
100 0.0 12.7 19.1#

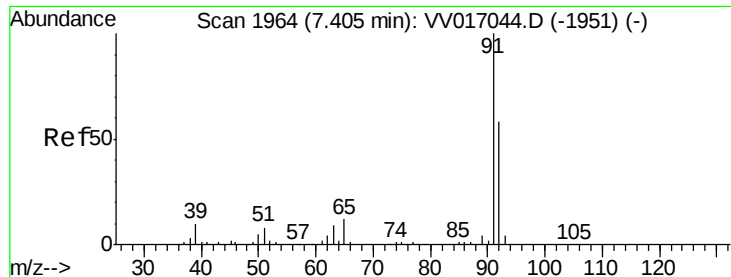


Abundance Ion 43.05 (42.75 to 43.75): VV017044.D (-1900) (-)

Ion 58.05 (57.75 to 58.75): VV017044.D (-1900) (-)

Ion 100.15 (99.85 to 100.85): VV017044.D (-1900) (-)





#42

Toluene

Concen: 0.120 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV017055.D

Acq: 23 Jun 2020 14:58

Instrument :

MSVOA_V

ClientSampleId :

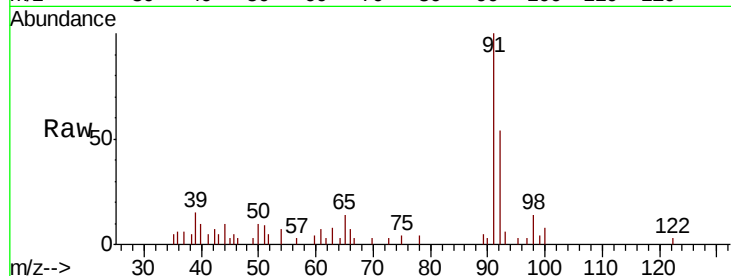
BFXH6DL

Tot Ion: 91 Resp: 6418

Ion Ratio Lower Upper

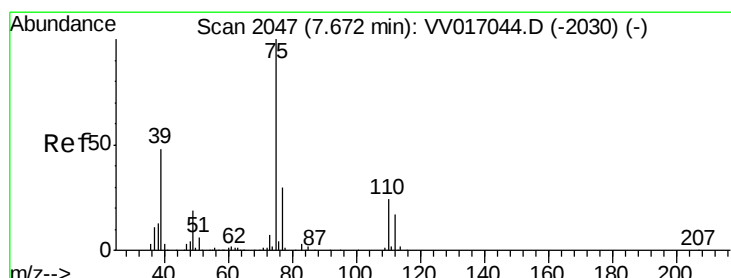
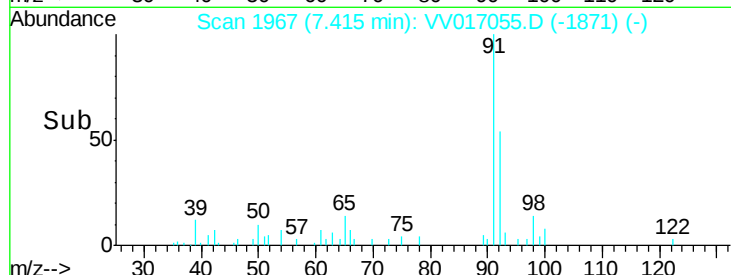
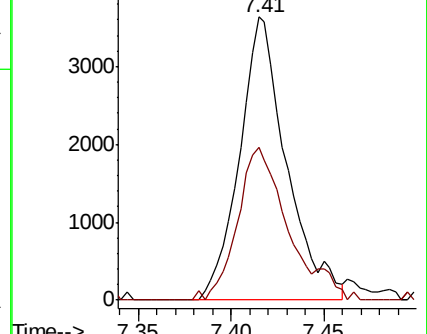
91 100

92 53.9 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#46

trans-1,3-Dichloropropene

Concen: 0.093 ug/L

RT: 7.64 min Scan# 2037

Delta R.T. -0.03 min

Lab File: VV017055.D

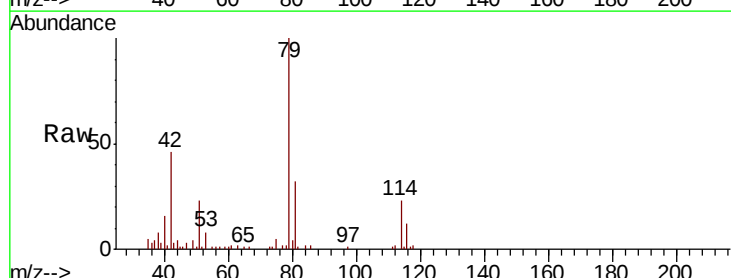
Acq: 23 Jun 2020 14:58

Tgt Ion: 75 Resp: 1367

Ion Ratio Lower Upper

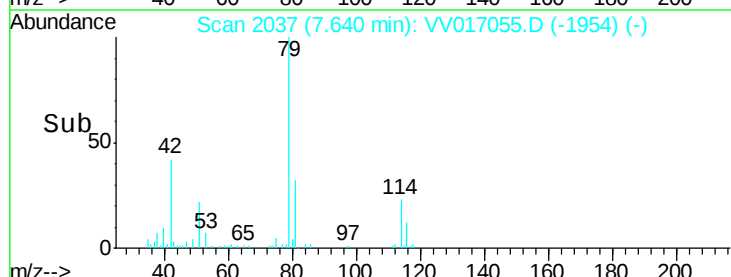
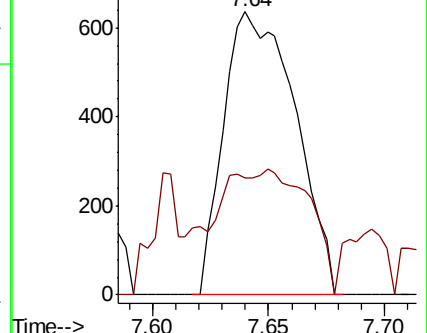
75 100

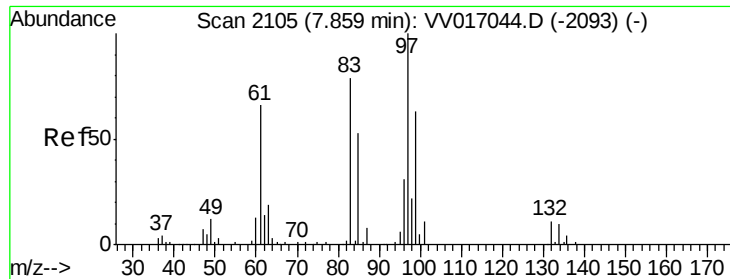
77 41.4 22.3 41.3#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

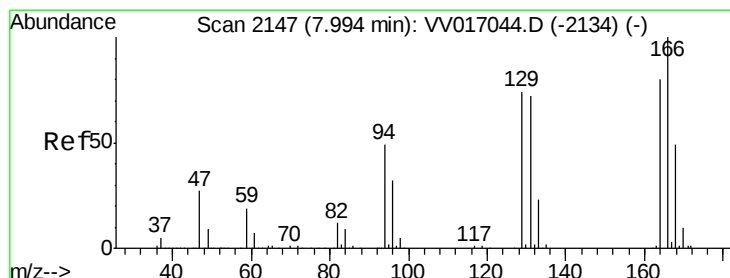
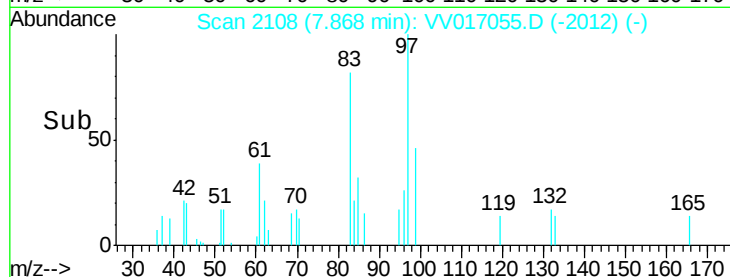
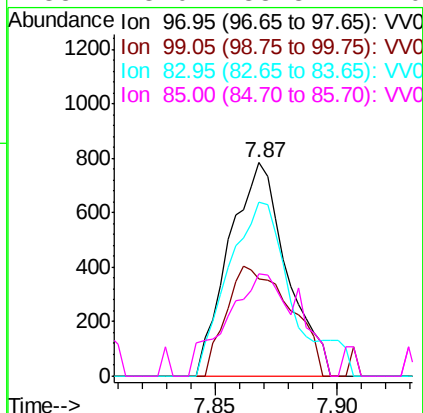
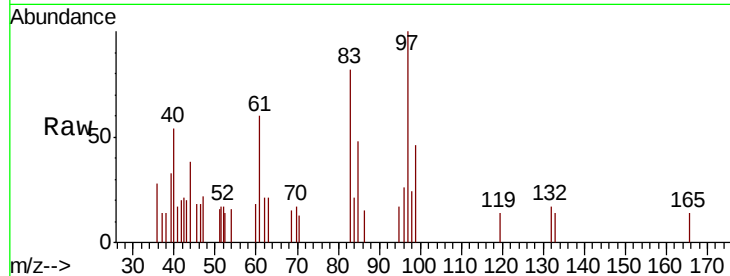




#47
1,1,2-Trichloroethane
Concen: 0.159 ug/L
RT: 7.87 min Scan# 2108
Delta R.T. 0.01 min
Lab File: VV017055.D
Acq: 23 Jun 2020 14:58

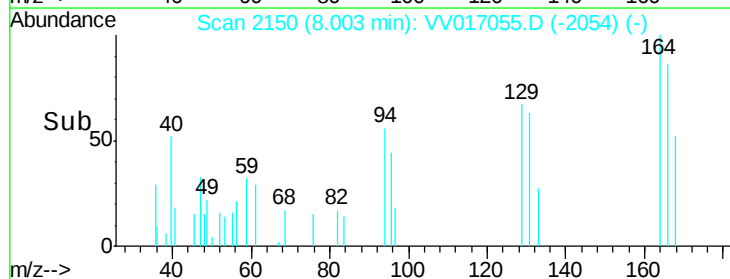
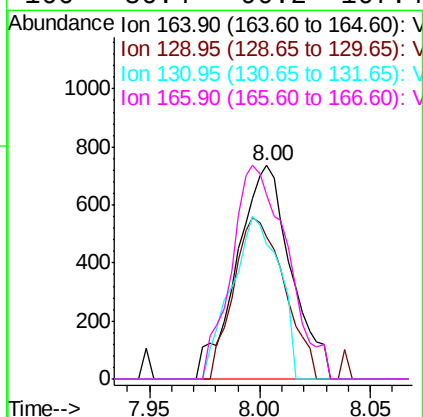
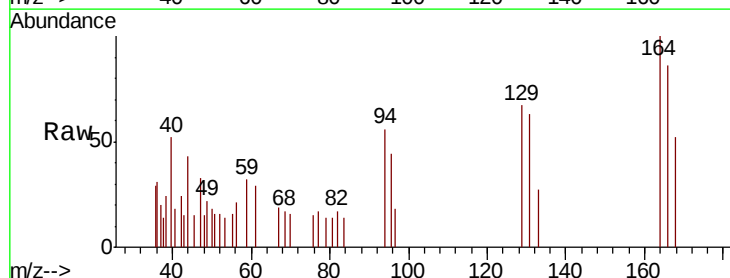
Instrument :
MSVOA_V
ClientSampleId :
BFXH6DL

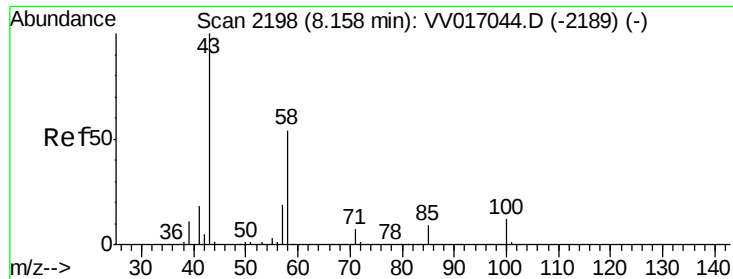
Tot Ion:	97	Resp:	1288
Ion	Ratio	Lower	Upper
97	100		
99	45.5	43.6	81.0
83	81.5	57.4	106.6
85	48.0	38.8	72.0



#49
Tetrachloroethene
Concen: 0.115 ug/L
RT: 8.00 min Scan# 2150
Delta R.T. 0.01 min
Lab File: VV017055.D
Acq: 23 Jun 2020 14:58

Tgt Ion:	164	Resp:	1255
Ion	Ratio	Lower	Upper
164	100		
129	66.6	65.2	121.0
131	63.2	64.1	119.1#
166	86.4	90.2	167.4#

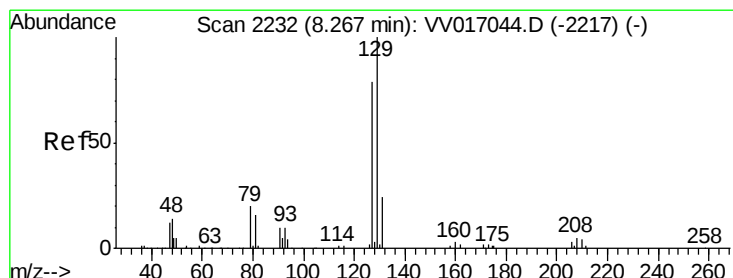
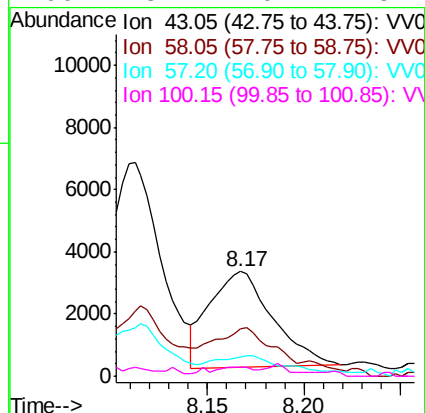
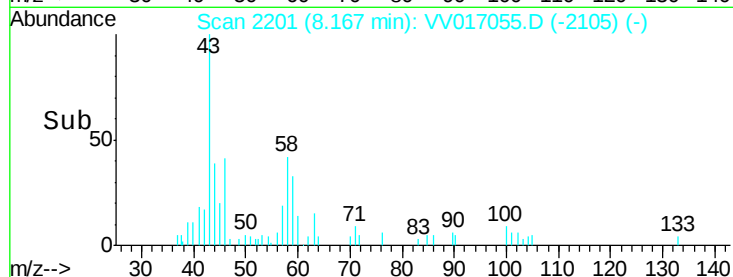
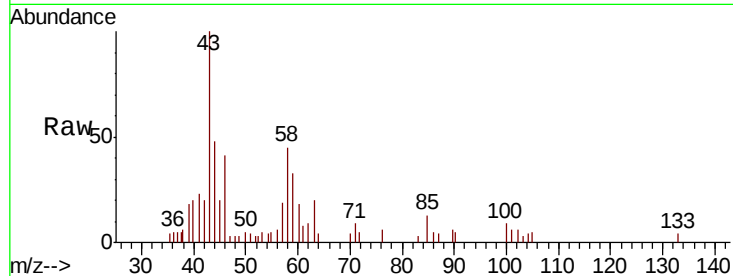




#50
2-Hexanone
Concen: 1.494 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. 0.01 min
Lab File: VV017055.D
Acq: 23 Jun 2020 14:58

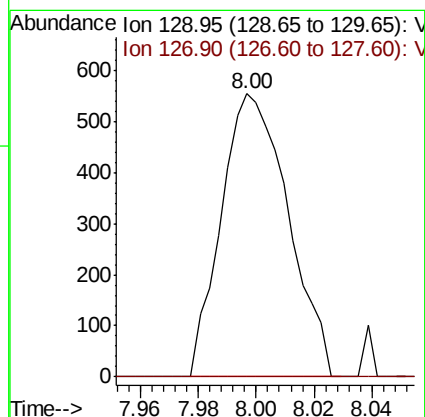
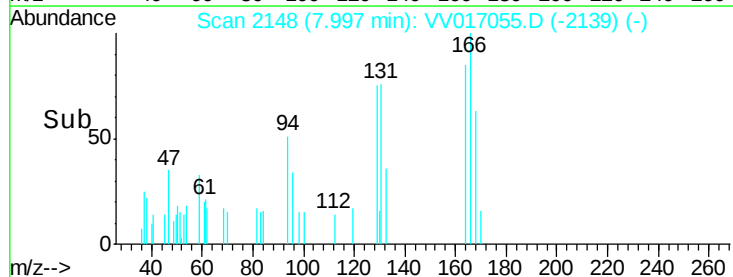
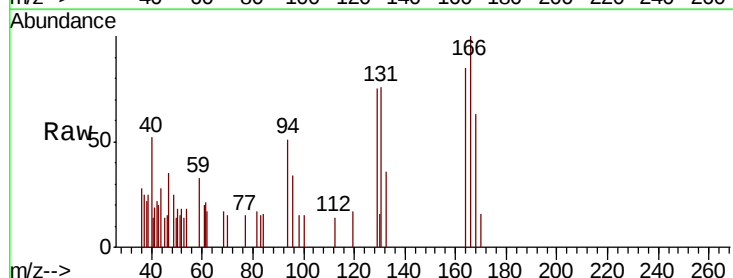
Instrument :
MSVOA_V
ClientSampled :
BFXH6DL

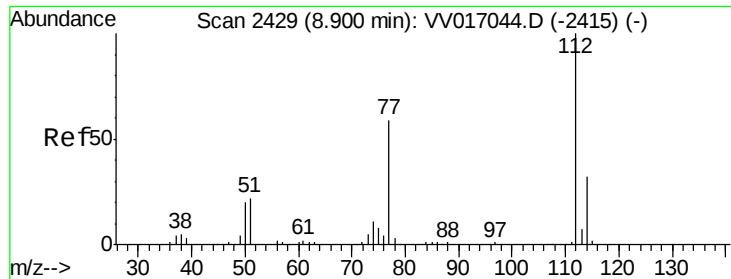
Tot Ion: 43 Resp: 7016
Ion Ratio Lower Upper
43 100
58 33.2 41.6 62.4#
57 21.0 15.4 23.0
100 5.4 10.1 15.1#



#51
Dibromochloromethane
Concen: 0.090 ug/L
RT: 8.00 min Scan# 2148
Delta R.T. -0.27 min
Lab File: VV017055.D
Acq: 23 Jun 2020 14:58

Tgt Ion: 129 Resp: 888
Ion Ratio Lower Upper
129 100
127 0.0 54.1 100.5#





#53

Chlorobenzene

Concen: 0.442 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV017055.D

Acq: 23 Jun 2020 14:58

Instrument :

MSVOA_V

ClientSampleId :

BFXH6DL

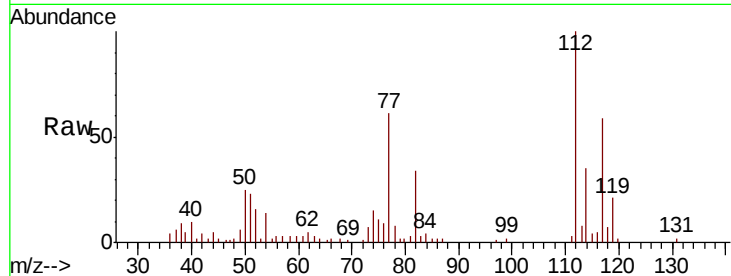
Tot Ion:112 Resp: 14778

Ion Ratio Lower Upper

112 100

114 35.2 22.0 41.0

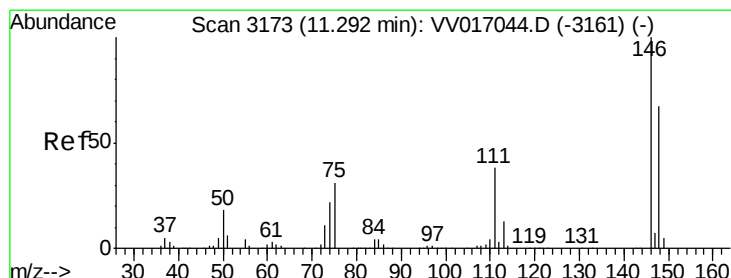
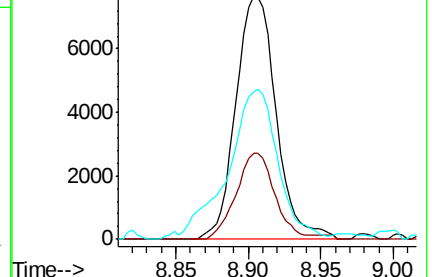
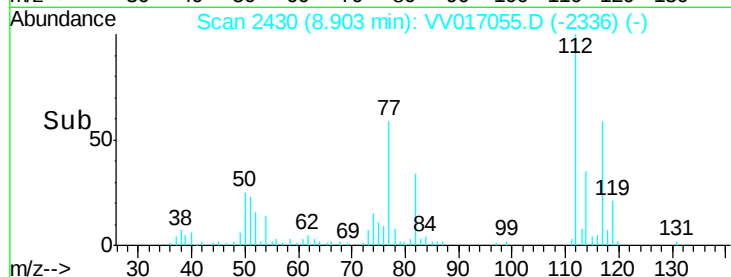
77 60.8 46.0 69.0



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



#64

1,4-Dichlorobenzene

Concen: 0.070 ug/L

RT: 11.30 min Scan# 3175

Delta R.T. 0.01 min

Lab File: VV017055.D

Acq: 23 Jun 2020 14:58

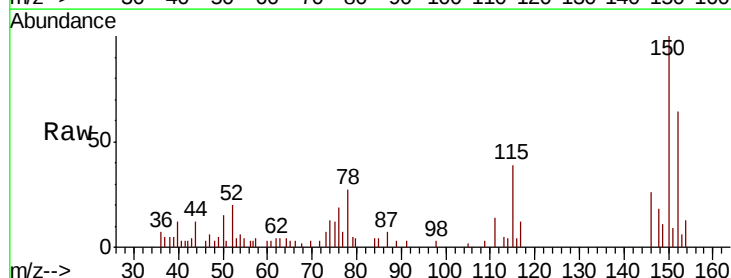
Tgt Ion:146 Resp: 1880

Ion Ratio Lower Upper

146 100

111 53.9 27.4 50.8#

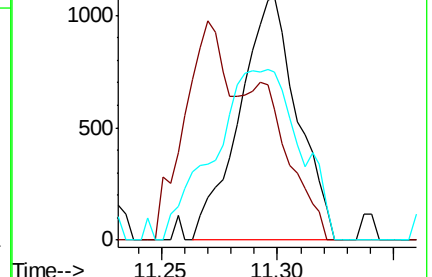
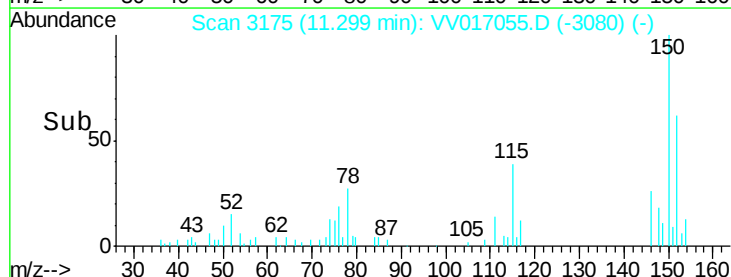
148 68.9 44.3 82.3

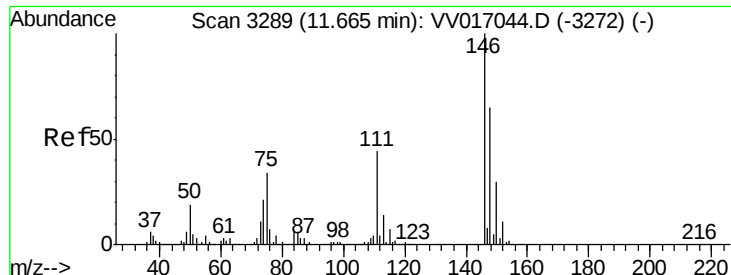


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#66
 1,2-Dichlorobenzene
 Concen: 0.286 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV017055.D
 Acq: 23 Jun 2020 14:58

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXH6DL

Tot Ion:146 Resp: 6874
 Ion Ratio Lower Upper
 146 100
 111 54.7 34.4 51.6#
 148 79.7 49.9 74.9#

