

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062320\
 Data File : VV017038.D
 Acq On : 22 Jun 2020 23:45
 Operator : SY/MD
 Sample : L3067-08
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jun 23 05:00:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jun 23 04:53:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	172464	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	168386	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	82668	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	45251	4.37	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.40%
7) Chloroethane-d5	1.58	69	35524	4.72	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.40%
11) 1,1-Dichloroethene-d2	2.12	63	69733	3.54	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.80%
20) 2-Butanone-d5	3.94	46	133831	50.73	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.46%
24) Chloroform-d	4.38	84	108317	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.80%
26) 1,2-Dichloroethane-d4	5.06	65	60207	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.60%
32) Benzene-d6	5.07	84	210918	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.60%
36) 1,2-Dichloropropane-d6	6.09	67	63331	4.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.80%
41) Toluene-d8	7.34	98	198755	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.00%
45) trans-1,3-Dichloropropene-	7.64	79	23726	4.36	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.20%
48) 2-Hexanone-d5	8.11	63	91151	43.92	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.84%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	44440	5.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.20%
65) 1,2-Dichlorobenzene-d4	11.65	152	78700	5.15	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.00%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	4265	0.377 ug/L #	69
8) Chloroethane	1.60	64	20095	3.213 ug/L #	76
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	644	0.071 ug/L #	24
13) Acetone	2.22	43	3456	2.592 ug/L	56
14) Carbon disulfide	2.31	76	2052	0.083 ug/L #	32
18) trans-1,2-Dichloroethene	2.78	96	6718	0.766 ug/L	94
19) 1,1-Dichloroethane	3.21	63	19245	0.977 ug/L	98
22) cis-1,2-Dichloroethene	3.94	96	34433	2.871 ug/L	94
27) 1,2-Dichloroethane	5.12	62	2165	0.162 ug/L #	76
29) 1,1,1-Trichloroethane	4.63	97	40243	1.995 ug/L	97
31) Carbon tetrachloride	4.63	117	5415	0.297 ug/L	93
33) Benzene	5.12	78	337225	7.647 ug/L	100
35) Methylcyclohexane	6.10	83	16666	0.830 ug/L #	17
37) 1,2-Dichloropropane	6.20	63	779	0.071 ug/L #	84
38) Bromodichloromethane	6.35	83	5203	0.351 ug/L #	35
39) cis-1,3-Dichloropropene	7.01	75	2122	0.131 ug/L	94
42) Toluene	7.41	91	7517	0.147 ug/L	81

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QLast Update : Tue Jun 23 04:53:49 2020
Response via : Initial Calibration

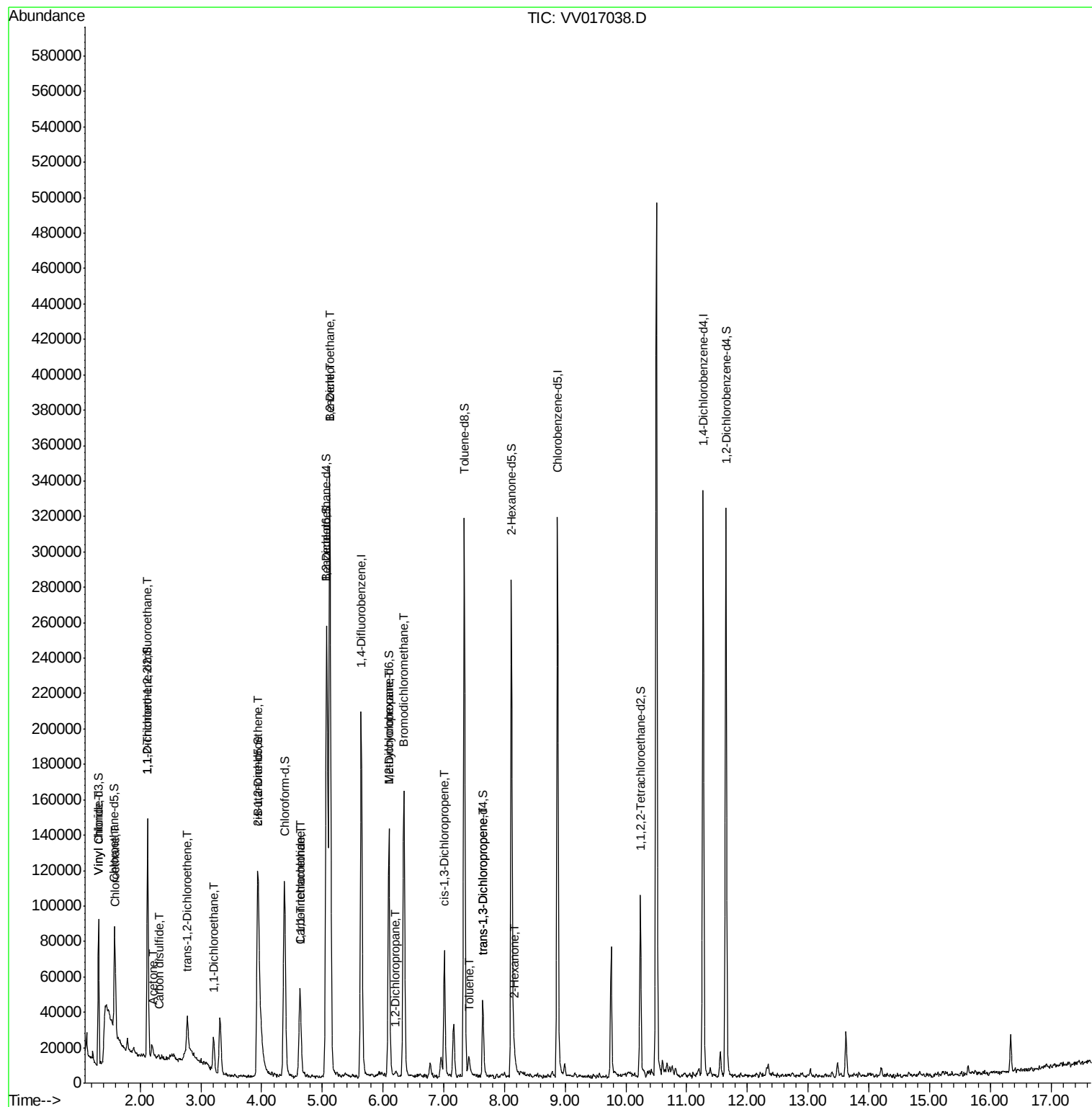
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) trans-1,3-Dichloropropene	7.65	75	1497	0.107	ug/L #	50
50) 2-Hexanone	8.17	43	4871	1.086	ug/L #	78

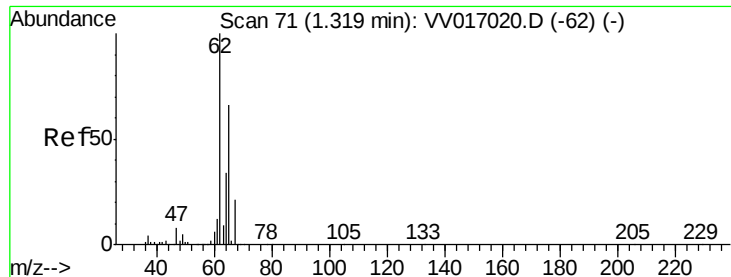
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.377 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV017038.D

Acq: 22 Jun 2020 23:45

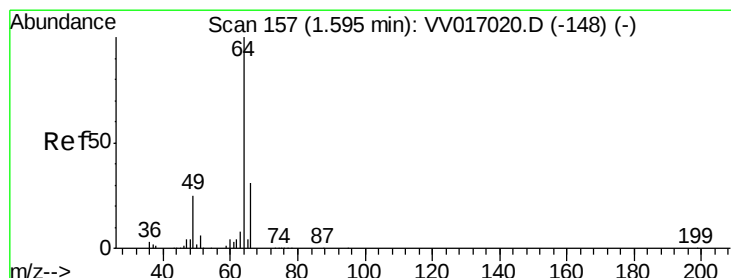
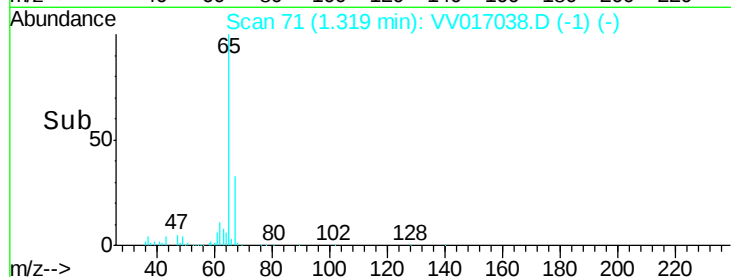
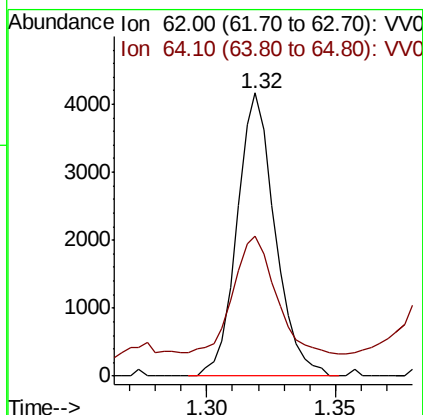
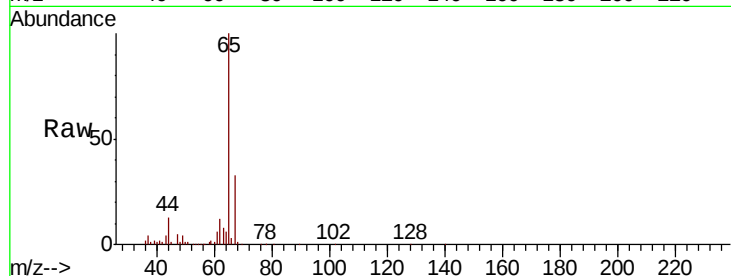
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 4265

Ion Ratio Lower Upper

62 100

64 49.6 22.5 41.7#



#8

Chloroethane

Concen: 3.213 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV017038.D

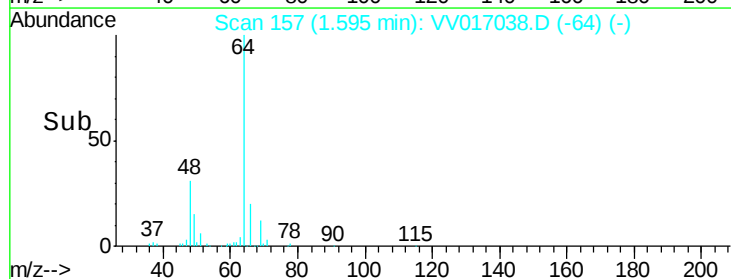
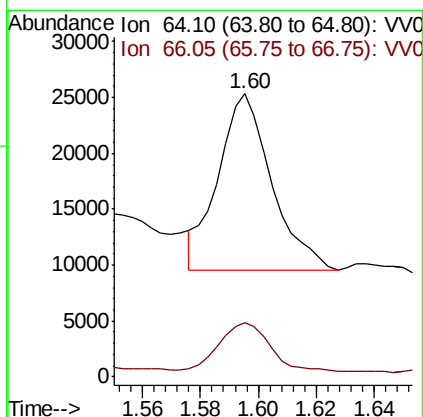
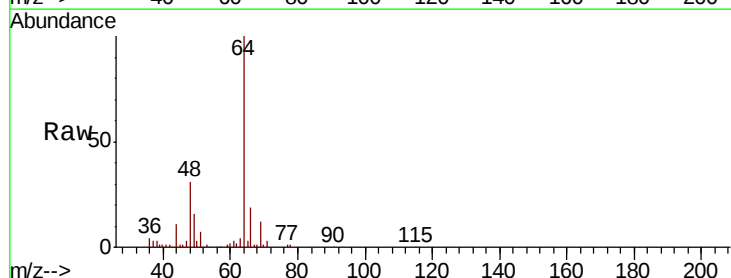
Acq: 22 Jun 2020 23:45

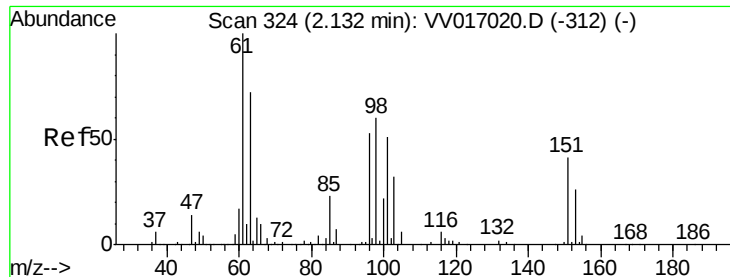
Tgt Ion: 64 Resp: 20095

Ion Ratio Lower Upper

64 100

66 19.2 22.8 42.4#





#10

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

Concen: 0.071 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV017038.D

Acq: 22 Jun 2020 23:45

Instrument :

MSVOA_V

ClientSampleId :

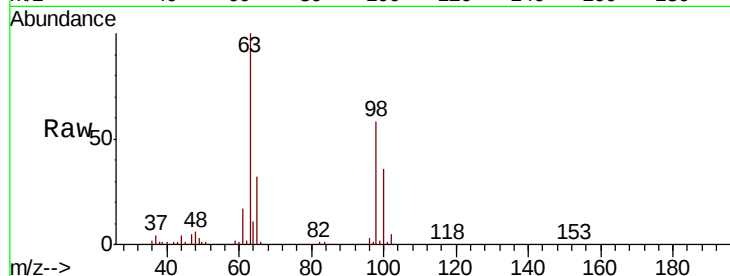
Tot Ion:101 Resp: 644

Ion Ratio Lower Upper

101 100

85 6.7 35.4 53.2#

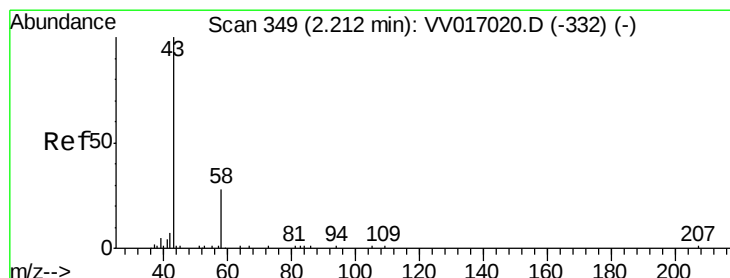
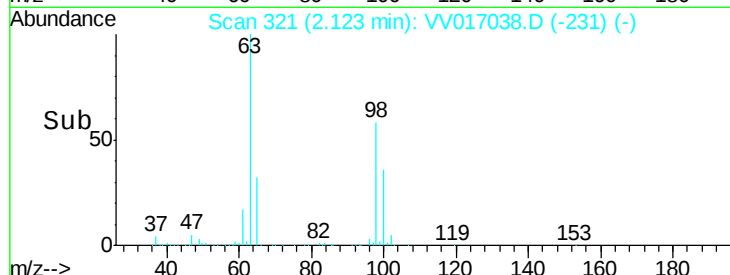
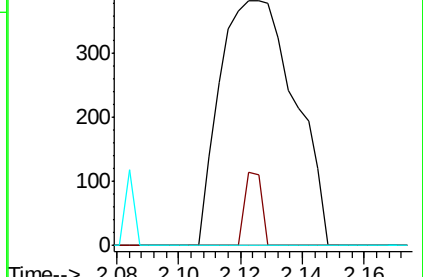
151 3.6 63.9 95.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 2.592 ug/L

RT: 2.22 min Scan# 351

Delta R.T. 0.01 min

Lab File: VV017038.D

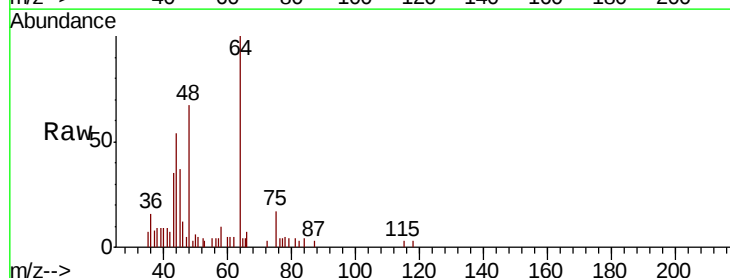
Acq: 22 Jun 2020 23:45

Tgt Ion: 43 Resp: 3456

Ion Ratio Lower Upper

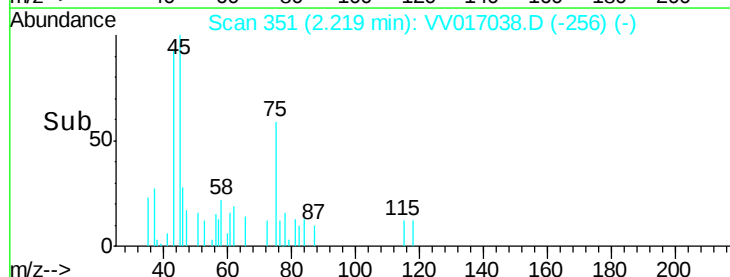
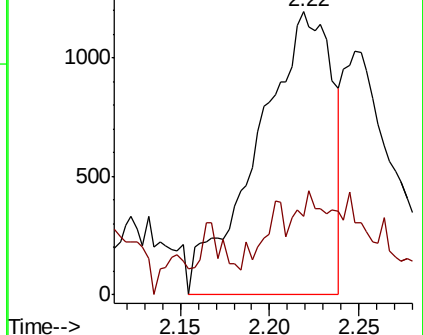
43 100

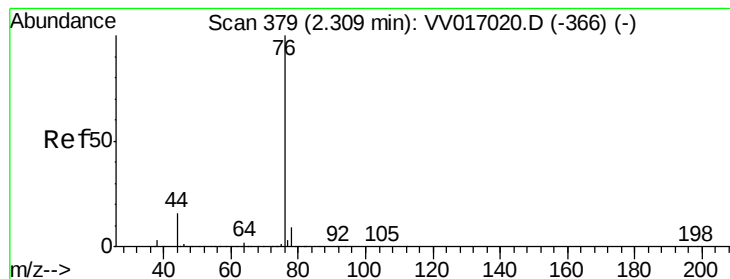
58 5.7 0.0 58.4



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0





#14

Carbon disulfide

Concen: 0.083 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV017038.D

Acq: 22 Jun 2020 23:45

Instrument :

MSVOA_V

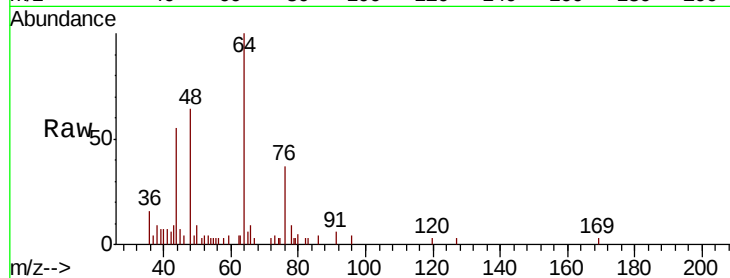
ClientSampled :

Tot Ion: 76 Resp: 2052

Ion Ratio Lower Upper

76 100

78 34.5 7.7 11.5#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

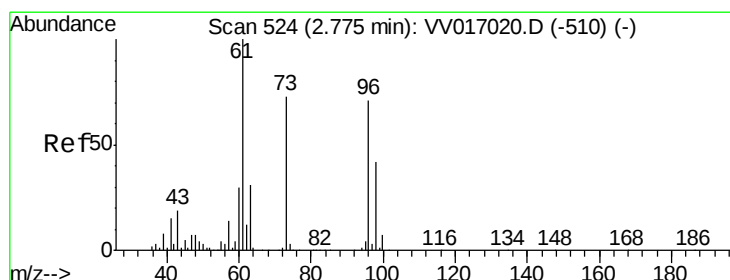
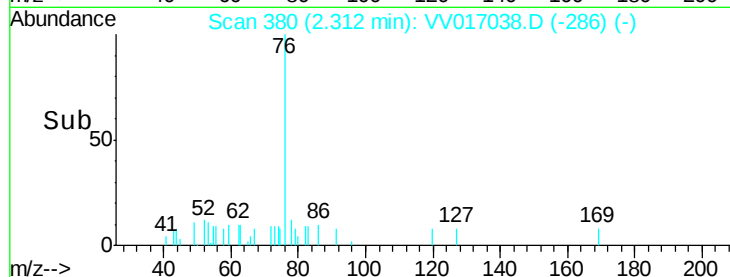
1500

1000

500

0

Time-->



#18

trans-1,2-Dichloroethene

Concen: 0.766 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV017038.D

Acq: 22 Jun 2020 23:45

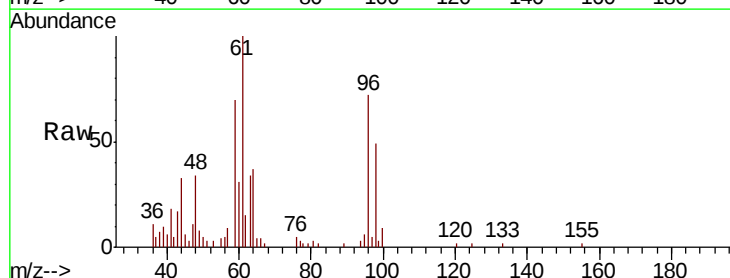
Tgt Ion: 96 Resp: 6718

Ion Ratio Lower Upper

96 100

61 138.3 102.3 189.9

98 67.2 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

8000

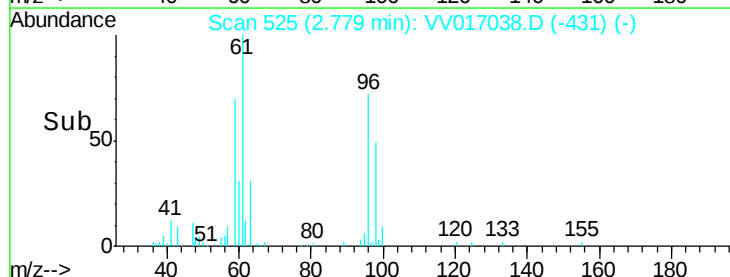
6000

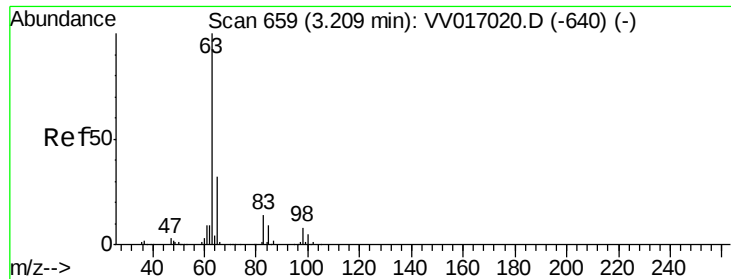
4000

2000

0

Time-->





#19

1,1-Dichloroethane

Concen: 0.977 ug/L

RT: 3.21 min Scan# 659

Delta R.T. 0.00 min

Lab File: VV017038.D

Acq: 22 Jun 2020 23:45

Instrument :
MSVOA_V
ClientSampleId :

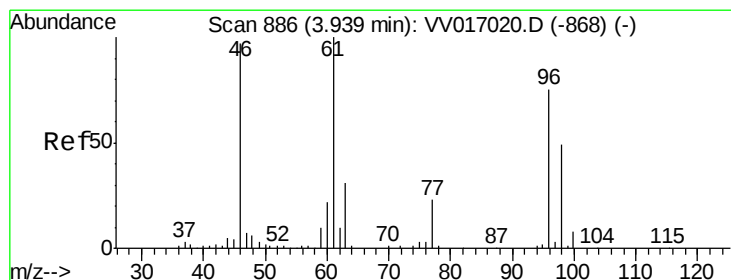
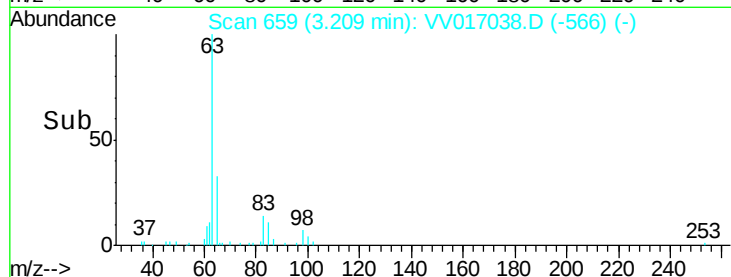
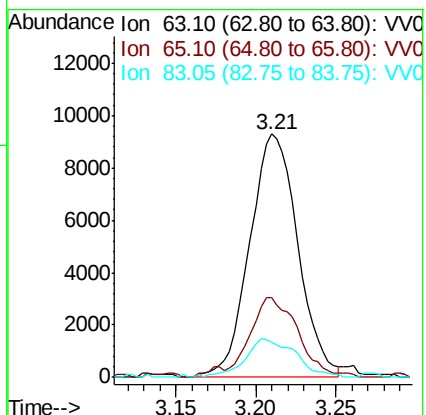
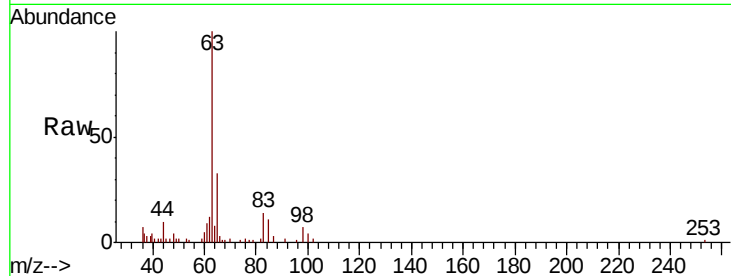
Tot Ion: 63 Resp: 19245

Ion Ratio Lower Upper

63 100

65 32.6 21.8 40.4

83 14.3 9.7 17.9



#22

cis-1,2-Dichloroethene

Concen: 2.871 ug/L

RT: 3.94 min Scan# 885

Delta R.T. -0.00 min

Lab File: VV017038.D

Acq: 22 Jun 2020 23:45

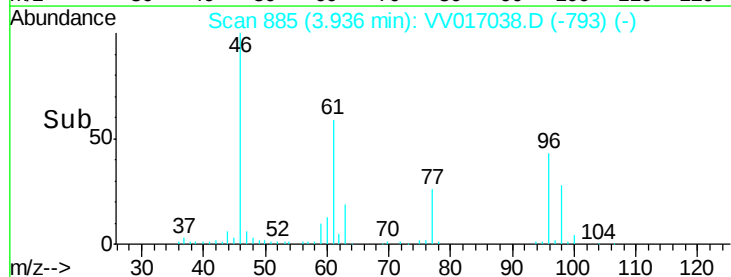
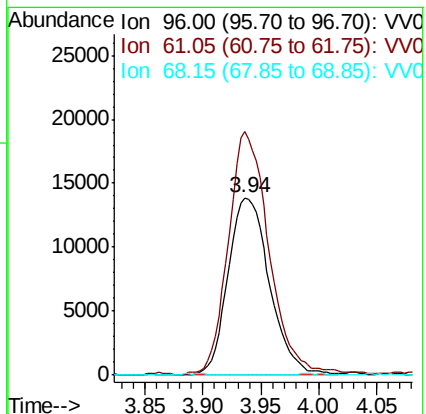
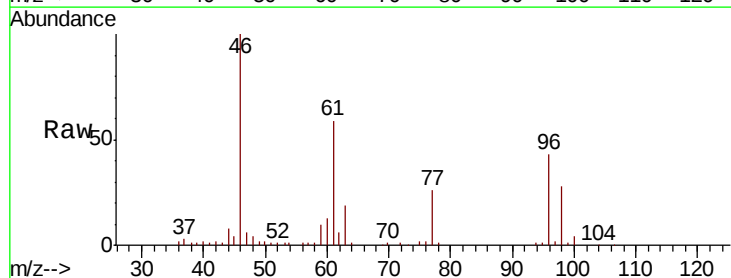
Tgt Ion: 96 Resp: 34433

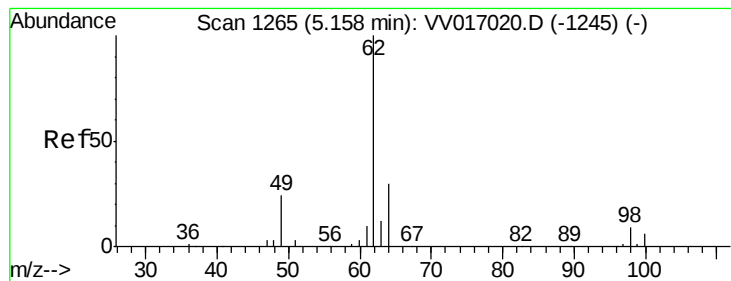
Ion Ratio Lower Upper

96 100

61 137.1 91.0 169.0

68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 0.162 ug/L

RT: 5.12 min Scan# 1254

Delta R.T. -0.04 min

Lab File: VV017038.D

Acq: 22 Jun 2020 23:45

Instrument :

MSVOA_V

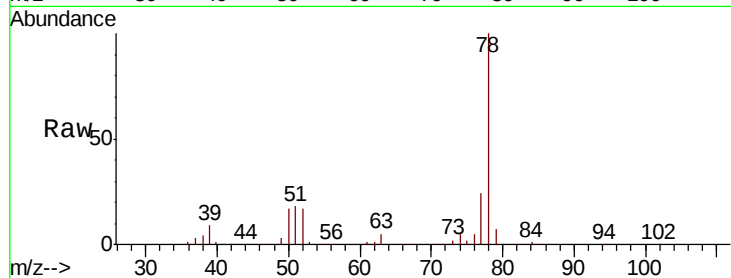
ClientSampleId :

Tot Ion: 62 Resp: 2165

Ion Ratio Lower Upper

62 100

98 0.0 6.7 10.1#



Abundance Ion 62.00 (61.70 to 62.70): VV017020.D (-1245) (-)

Ion 98.05 (97.75 to 98.75): VV017020.D (-1245) (-)

5.12

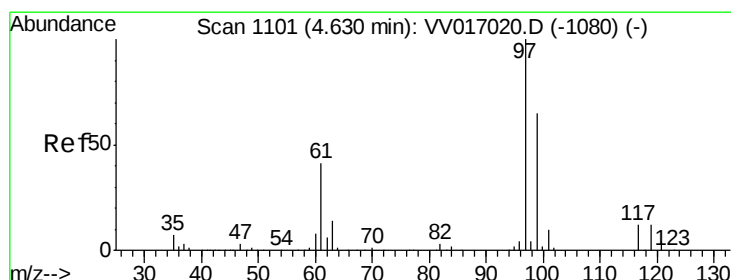
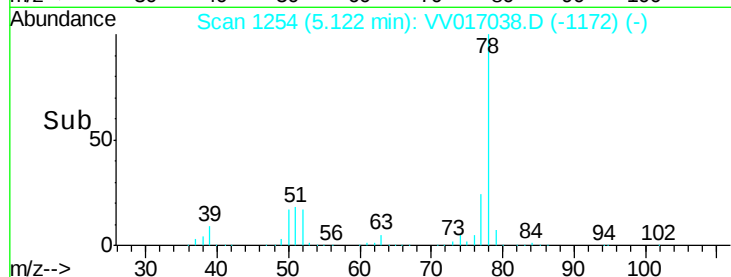
1500

1000

500

0

Time-->



#29

1,1,1-Trichloroethane

Concen: 1.995 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV017038.D

Acq: 22 Jun 2020 23:45

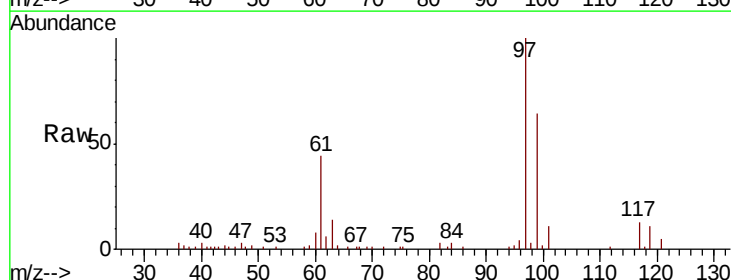
Tgt Ion: 97 Resp: 40243

Ion Ratio Lower Upper

97 100

99 65.1 50.3 75.5

61 42.3 36.0 54.0



Abundance Ion 96.95 (96.65 to 97.65): VV017020.D (-1080) (-)

Ion 99.05 (98.75 to 99.75): VV017020.D (-1080) (-)

Ion 61.05 (60.75 to 61.75): VV017020.D (-1080) (-)

4.63

20000

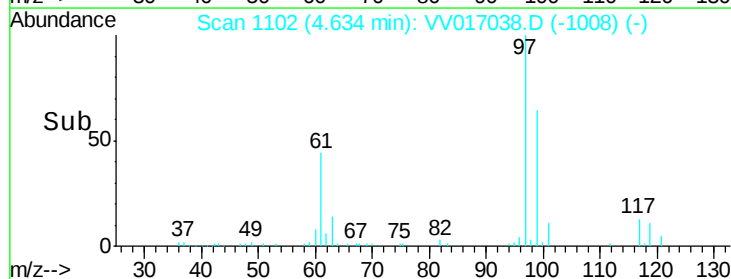
15000

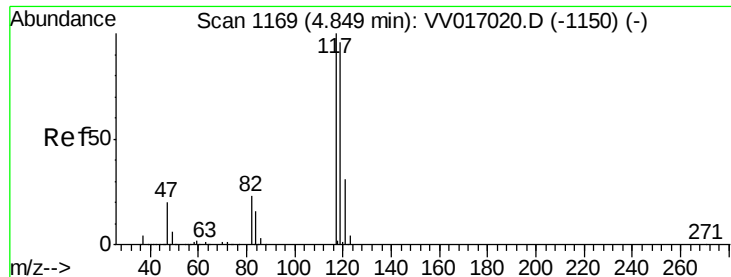
10000

5000

0

Time-->





#31

Carbon tetrachloride

Concen: 0.297 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. -0.22 min

Lab File: VV017038.D

Acq: 22 Jun 2020 23:45

Instrument :

MSVOA_V

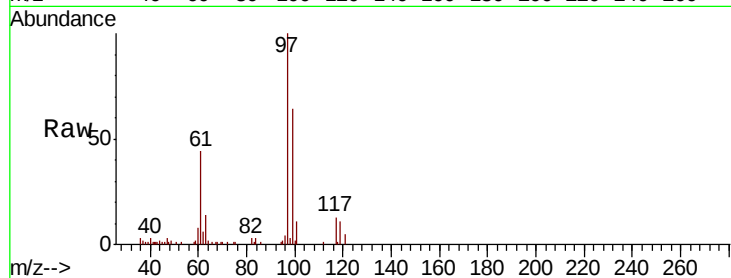
ClientSampleId :

Tot Ion:117 Resp: 5415

Ion Ratio Lower Upper

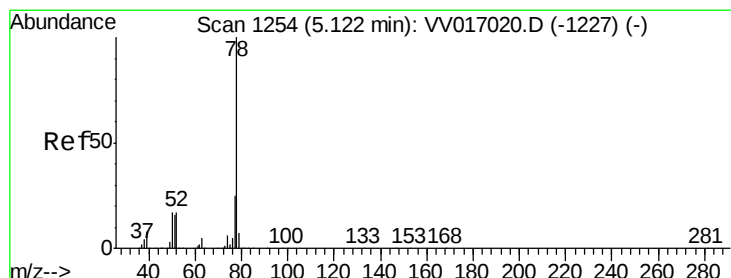
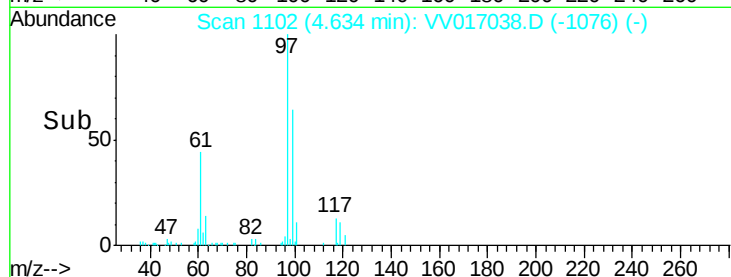
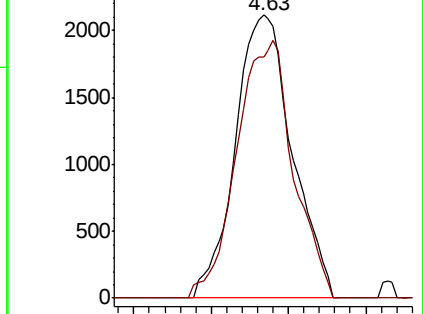
117 100

119 90.1 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 7.647 ug/L

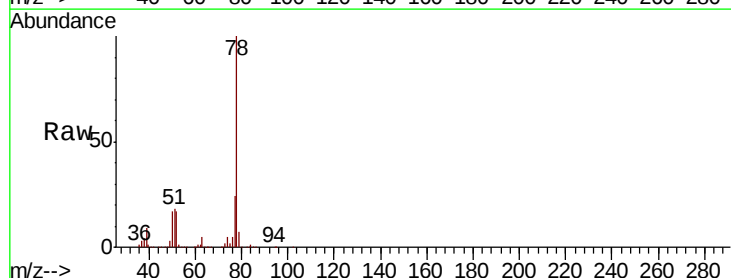
RT: 5.12 min Scan# 1254

Delta R.T. 0.00 min

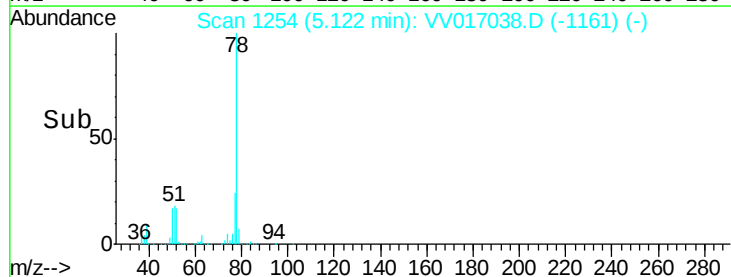
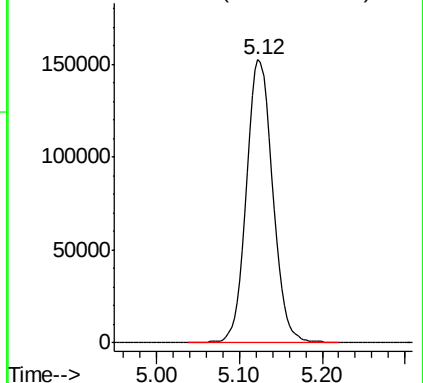
Lab File: VV017038.D

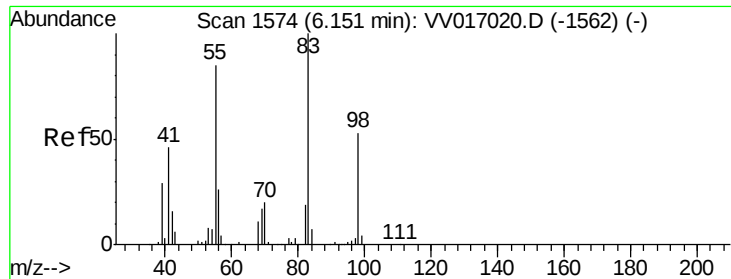
Acq: 22 Jun 2020 23:45

Tgt Ion: 78 Resp: 337225



Abundance Ion 78.10 (77.80 to 78.80): VV0

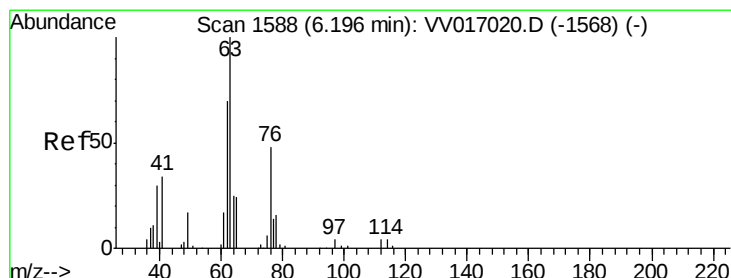
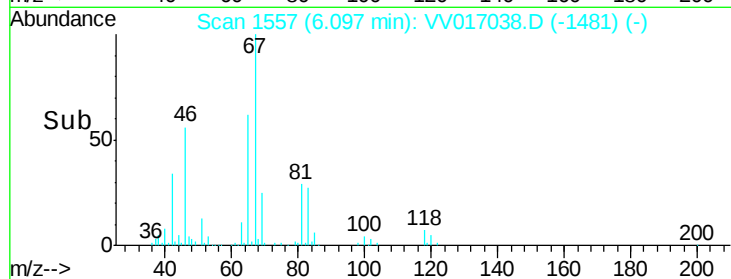
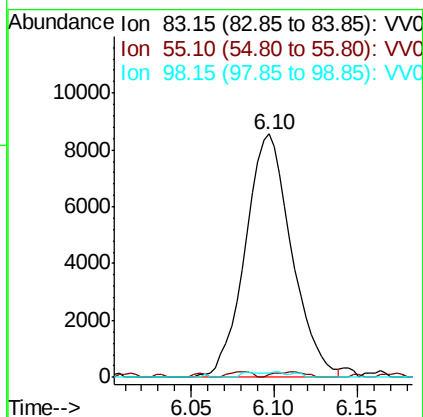
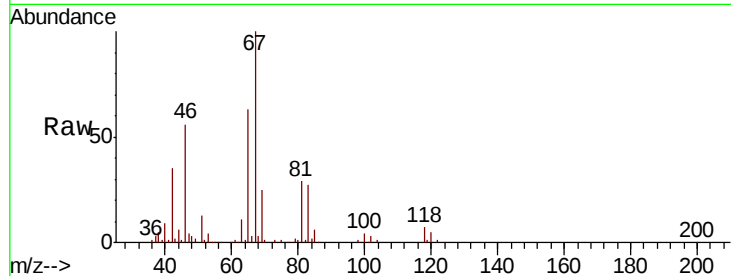




#35
Methvlcvclohexane
Concen: 0.830 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.05 min
Lab File: VV017038.D
Acq: 22 Jun 2020 23:45

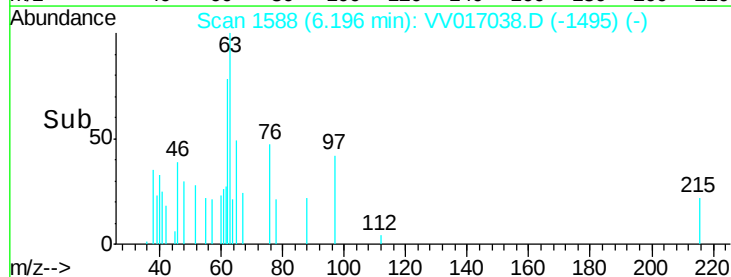
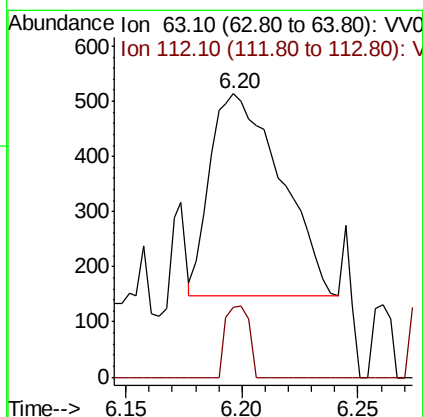
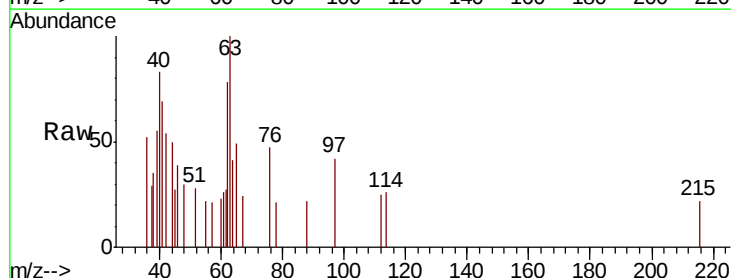
Instrument :
MSVOA_V
ClientSampleId :

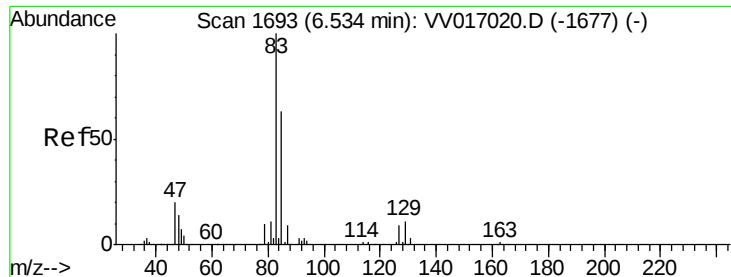
Tot Ion: 83 Resp: 16666
Ion Ratio Lower Upper
83 100
55 0.0 63.6 95.4#
98 1.2 38.8 58.2#



#37
1,2-Dichloropropane
Concen: 0.071 ug/L
RT: 6.20 min Scan# 1588
Delta R.T. 0.00 min
Lab File: VV017038.D
Acq: 22 Jun 2020 23:45

Tgt Ion: 63 Resp: 779
Ion Ratio Lower Upper
63 100
112 0.0 4.4 6.6#

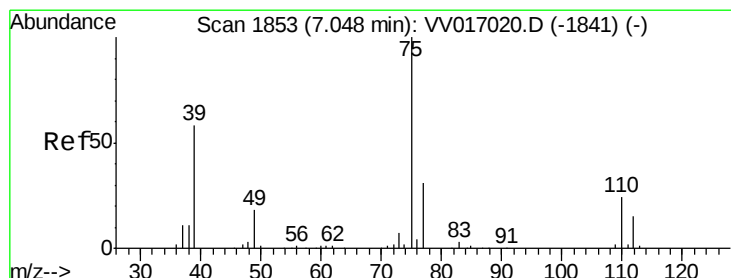
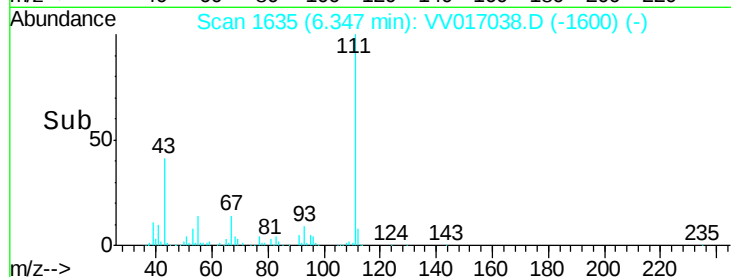
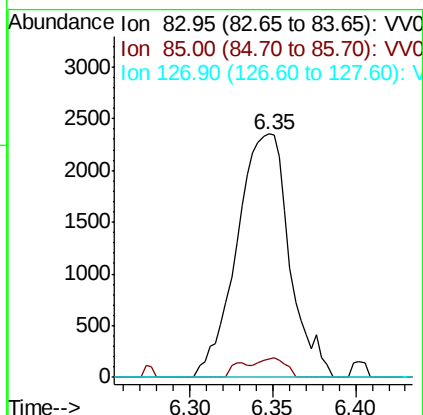
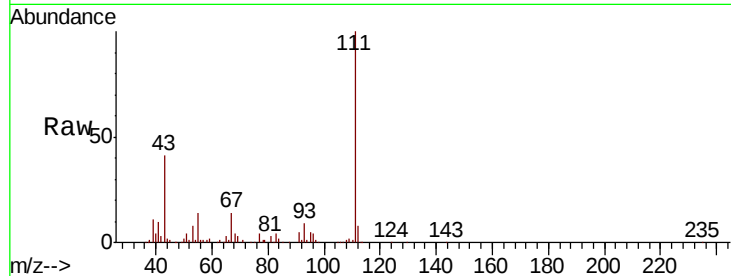




#38
 Bromodichloromethane
 Concen: 0.351 ug/L
 RT: 6.35 min Scan# 1635
 Delta R.T. -0.19 min
 Lab File: VV017038.D
 Acq: 22 Jun 2020 23:45

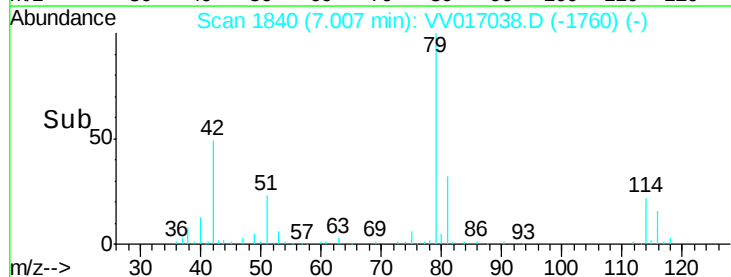
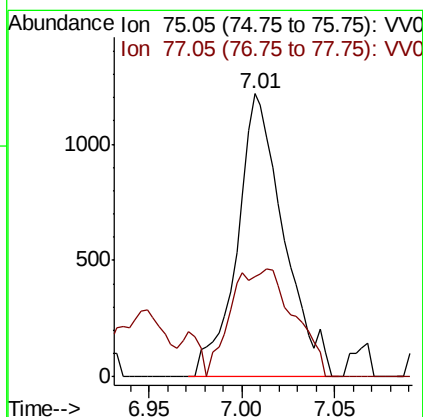
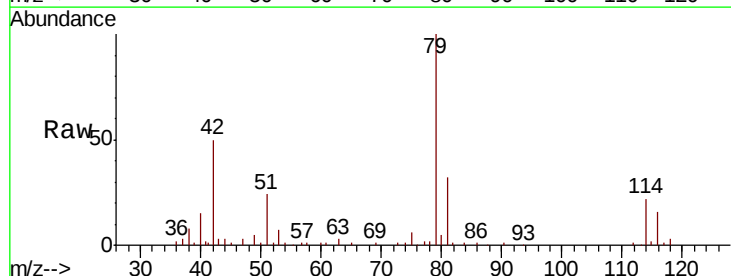
Instrument :
 MSVOA_V
 ClientSampleId :

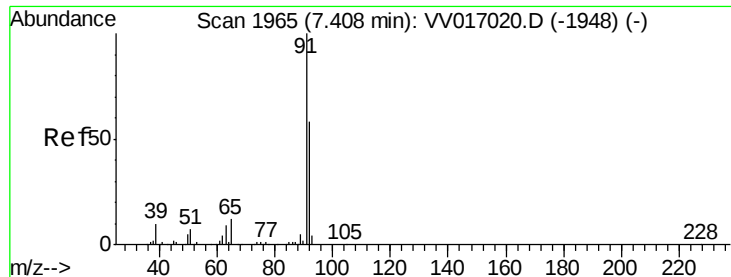
Tot Ion: 83 Resp: 5203
 Ion Ratio Lower Upper
 83 100
 85 7.7 43.4 80.6#
 127 0.0 7.9 11.9#



#39
 cis-1,3-Dichloropropene
 Concen: 0.131 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.04 min
 Lab File: VV017038.D
 Acq: 22 Jun 2020 23:45

Tgt Ion: 75 Resp: 2122
 Ion Ratio Lower Upper
 75 100
 77 35.4 22.3 41.5





#42

Toluene

Concen: 0.147 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV017038.D

Acq: 22 Jun 2020 23:45

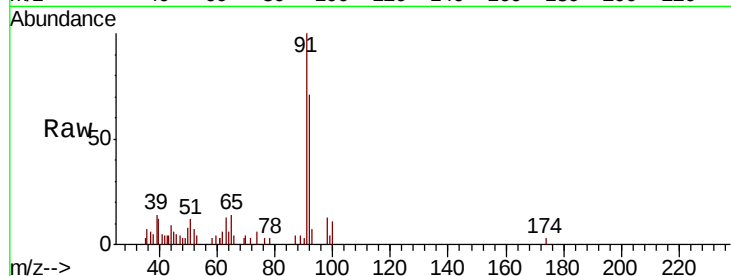
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 7517

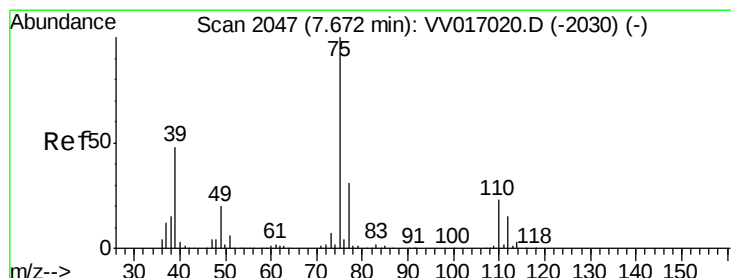
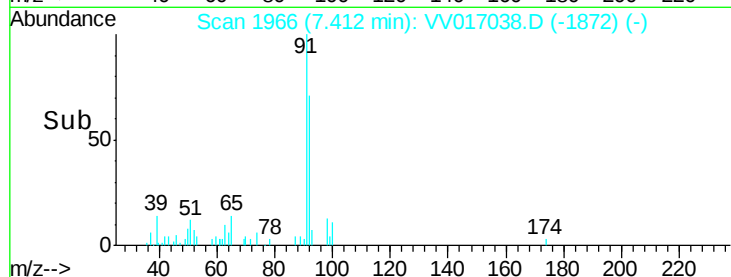
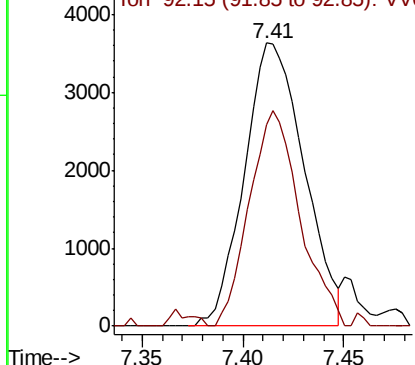
Ion Ratio Lower Upper

91 100

92 71.0 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: 0.107 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.03 min

Lab File: VV017038.D

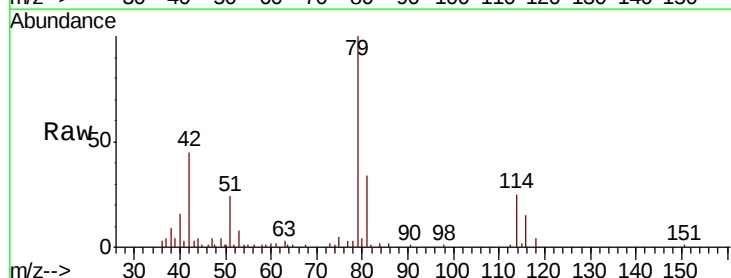
Acq: 22 Jun 2020 23:45

Tgt Ion: 75 Resp: 1497

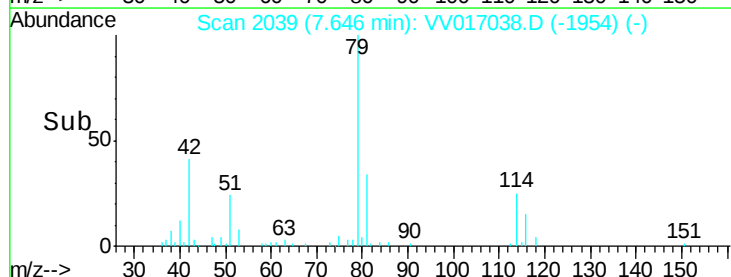
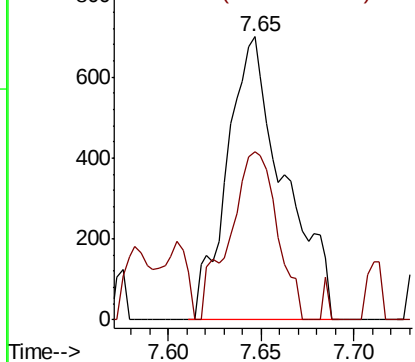
Ion Ratio Lower Upper

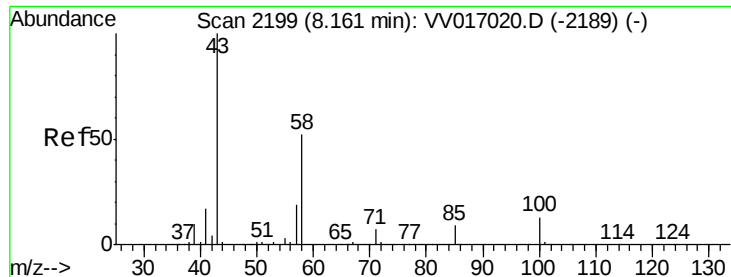
75 100

77 59.5 22.3 41.3#



Abundance Ion 75.05 (74.75 to 75.75): VV0
Ion 77.05 (76.75 to 77.75): VV0





#50

2-Hexanone

Concen: 1.086 ug/L

RT: 8.17 min Scan# 2201

Delta R.T. 0.01 min

Lab File: VV017038.D

Acq: 22 Jun 2020 23:45

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 4871

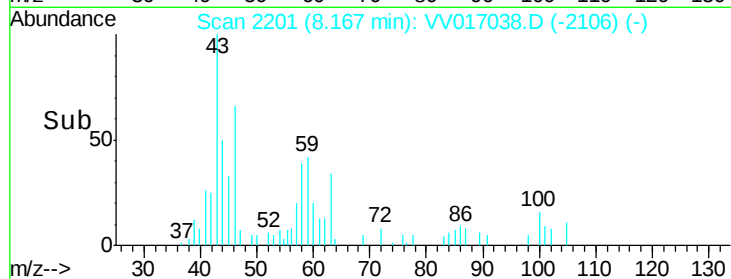
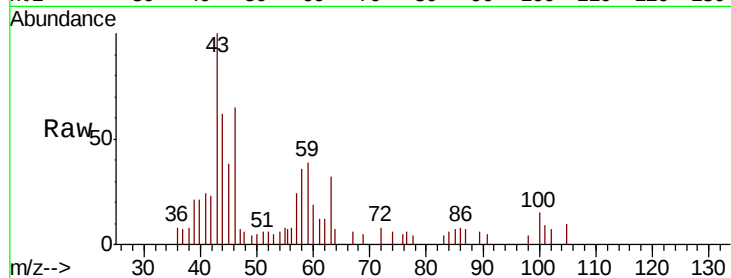
Ion Ratio Lower Upper

43 100

58 36.1 41.6 62.4#

57 30.6 15.4 23.0#

100 7.5 10.1 15.1#



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

