

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062320\
 Data File : VV017041.D
 Acq On : 23 Jun 2020 00:57
 Operator : SY/MD
 Sample : L3067-20
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jun 23 05:01:25 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	187716	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	178369	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	92852	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	42790	3.80	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.00%
7) Chloroethane-d5	1.58	69	34455	4.21	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.20%
11) 1,1-Dichloroethene-d2	2.12	63	72168	3.37	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.40%
20) 2-Butanone-d5	3.95	46	133448	46.48	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	92.96%
24) Chloroform-d	4.38	84	108431	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.00%
26) 1,2-Dichloroethane-d4	5.06	65	58452	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.60%
32) Benzene-d6	5.07	84	205939	4.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.00%
36) 1,2-Dichloropropane-d6	6.10	67	62638	4.52	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.40%
41) Toluene-d8	7.34	98	200425	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.40%
45) trans-1,3-Dichloropropene-	7.64	79	25240	4.37	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.40%
48) 2-Hexanone-d5	8.11	63	91864	41.79	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	83.58%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	44640	4.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.00%
65) 1,2-Dichlorobenzene-d4	11.65	152	79464	4.63	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.60%

Target Compounds

					Ovalue
3) Chloromethane	1.25	50	1412	0.111 ug/L	91
5) Vinyl chloride	1.21	62	1544	0.125 ug/L	87
8) Chloroethane	1.60	64	79373	11.660 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	705	0.071 ug/L #	21
12) 1,1-Dichloroethene	2.13	96	8507	0.944 ug/L #	1
13) Acetone	2.23	43	5493	3.784 ug/L	89
14) Carbon disulfide	2.31	76	1597	0.059 ug/L #	66
16) Methylene chloride	2.52	84	4473	0.464 ug/L	91
18) trans-1,2-Dichloroethene	2.78	96	2260	0.237 ug/L	96
19) 1,1-Dichloroethane	3.21	63	8654786	403.478 ug/L	97
22) cis-1,2-Dichloroethene	3.94	96	3471	0.266 ug/L	99
27) 1,2-Dichloroethane	5.16	62	14898	1.023 ug/L	97
29) 1,1,1-Trichloroethane	4.63	97	6159	0.288 ug/L #	77
33) Benzene	5.13	78	3910	0.084 ug/L	100
35) Methylcyclohexane	6.10	83	15532	0.730 ug/L #	17
37) 1,2-Dichloropropane	6.09	63	7852	0.679 ug/L #	84
39) cis-1,3-Dichloropropene	7.01	75	2262	0.132 ug/L	85

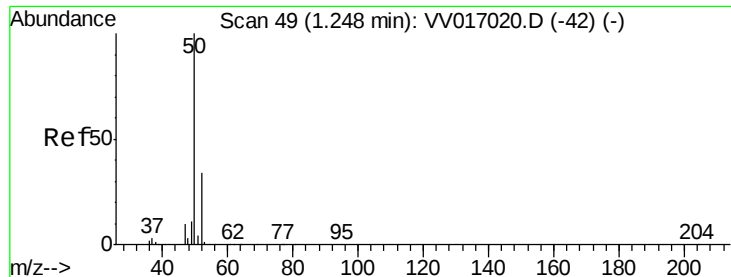
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062320\
Data File : VV017041.D
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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Jun 23 04:53:49 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 4-Methyl-2-pentanone	7.16	43	86780	12.998	ug/L #	46
42) Toluene	7.41	91	8503	0.157	ug/L	99
46) trans-1,3-Dichloropropene	7.65	75	1484	0.100	ug/L	96
50) 2-Hexanone	8.17	43	3806	0.801	ug/L	90
55) m,p-xylene	9.16	106	4037	0.178	ug/L	74

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



#3

Chloromethane

Concen: 0.111 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV017041.D

Acq: 23 Jun 2020 00:57

Instrument :

MSVOA_V

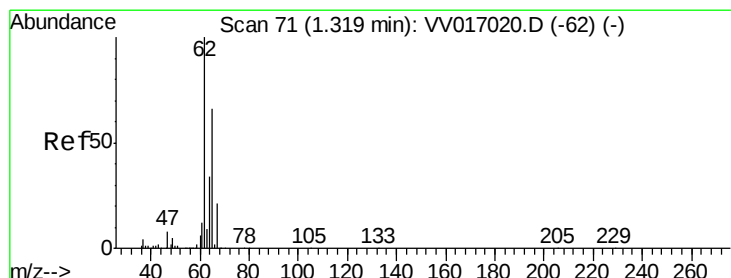
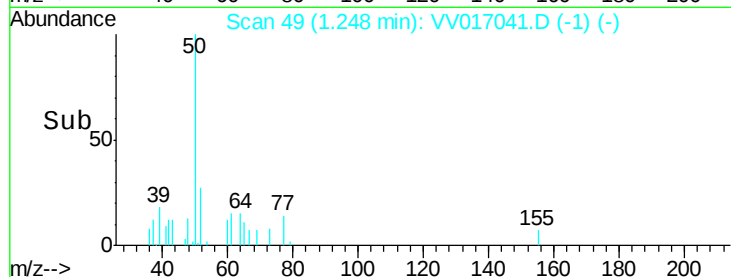
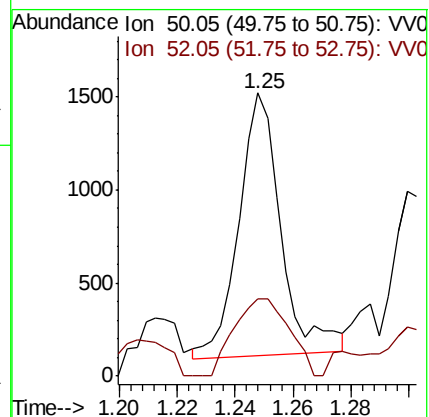
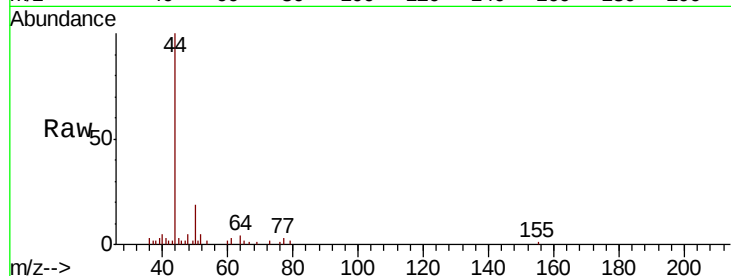
ClientSampleId :

Tot Ion: 50 Resp: 1412

Ion Ratio Lower Upper

50 100

52 27.4 22.5 41.9



#5

Vinyl chloride

Concen: 0.125 ug/L

RT: 1.21 min Scan# 37

Delta R.T. -0.11 min

Lab File: VV017041.D

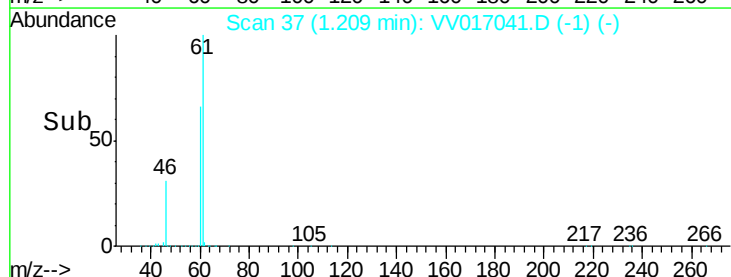
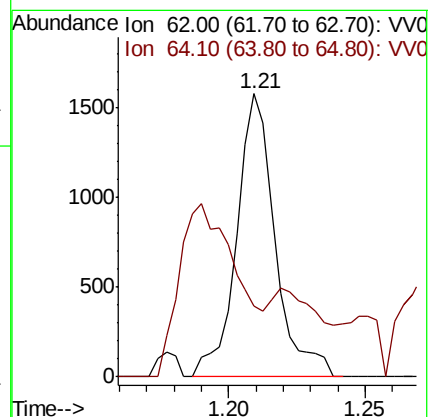
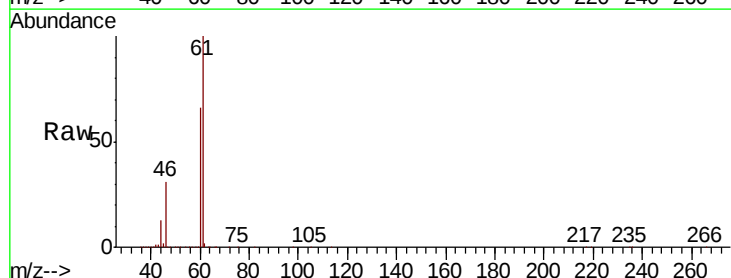
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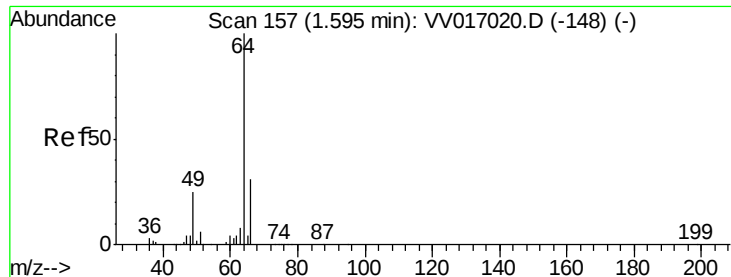
Tgt Ion: 62 Resp: 1544

Ion Ratio Lower Upper

62 100

64 24.9 22.5 41.7

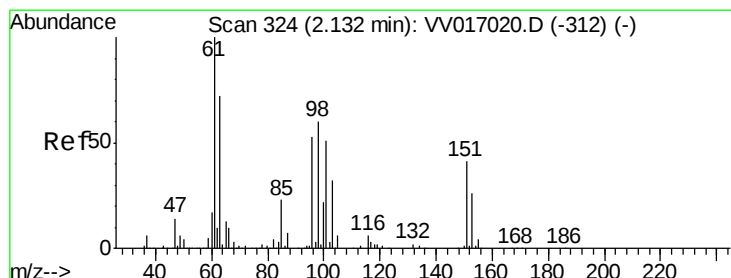
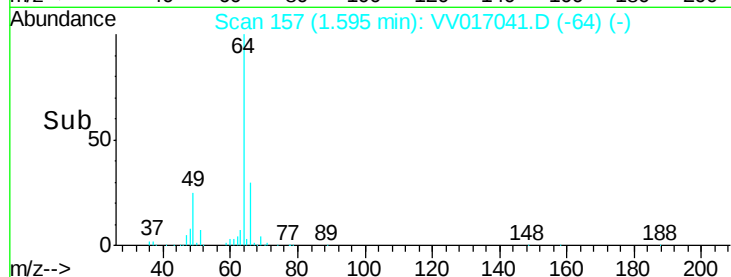
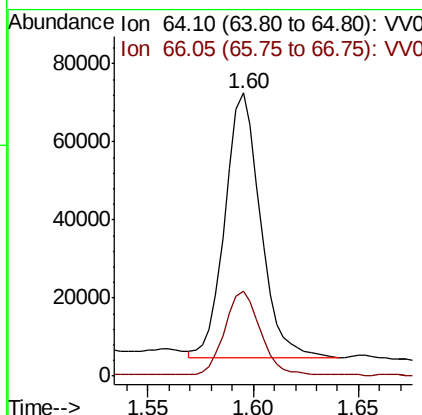
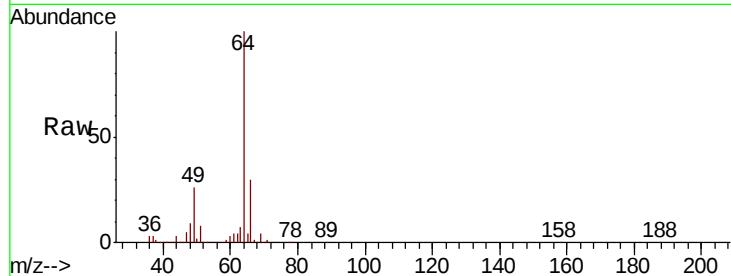




#8
Chloroethane
Concen: 11.660 ug/L
RT: 1.60 min Scan# 157
Delta R.T. 0.00 min
Lab File: VV017041.D
Acq: 23 Jun 2020 00:57

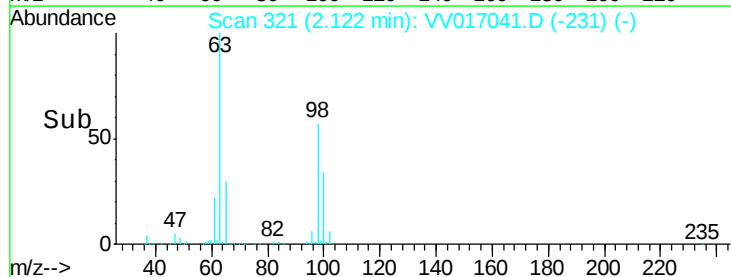
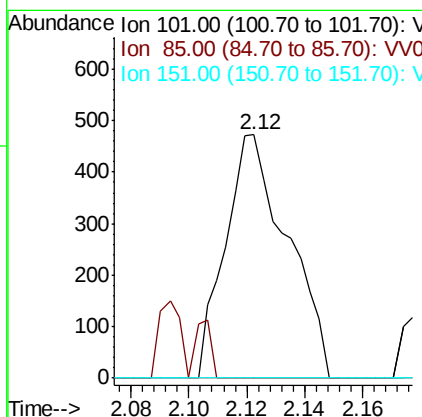
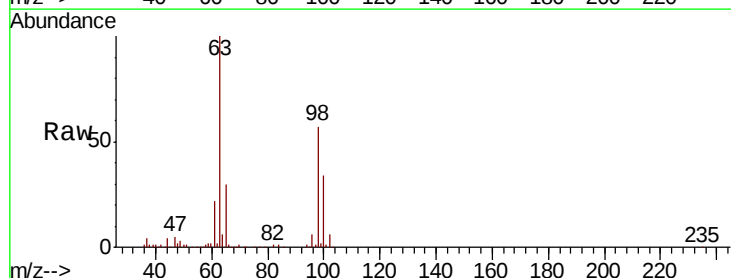
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MSVOA_V
ClientSampleId :

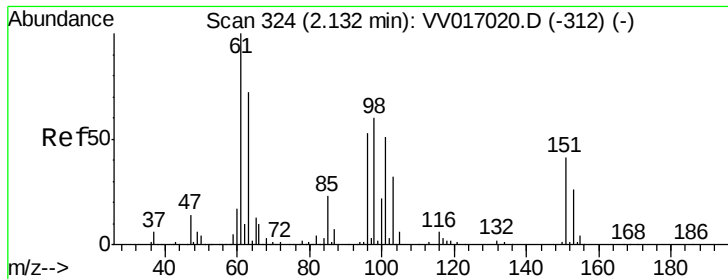
Tot Ion: 64 Resp: 79373
Ion Ratio Lower Upper
64 100
66 30.1 22.8 42.4



#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: VV017041.D
Acq: 23 Jun 2020 00:57

Tgt Ion:101 Resp: 705
Ion Ratio Lower Upper
101 100
85 6.0 35.4 53.2#
151 0.0 63.9 95.9#

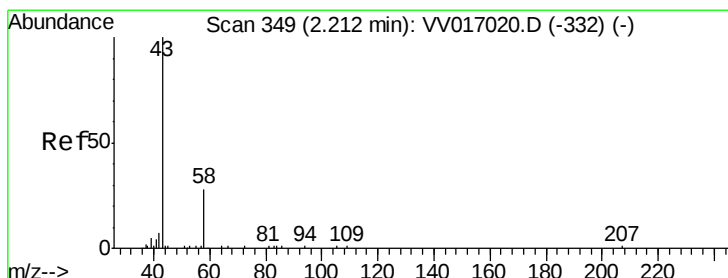
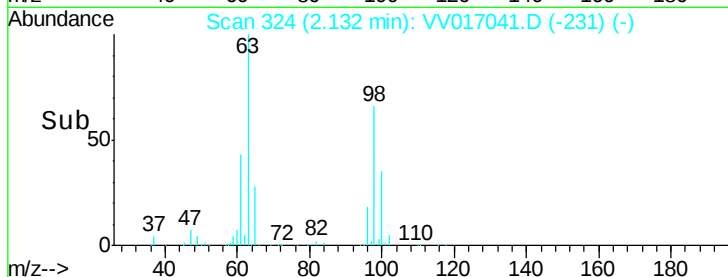
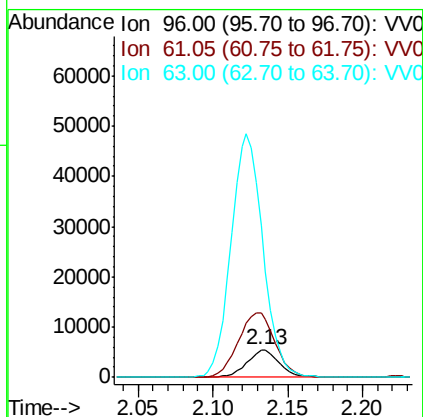
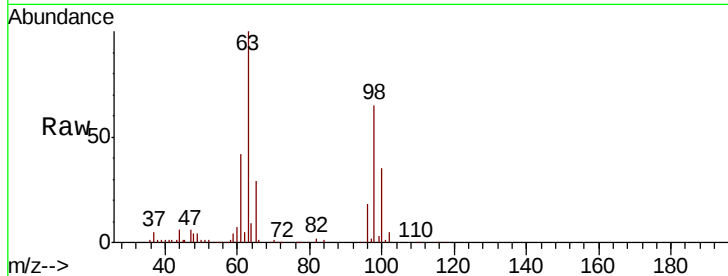




#12
 1,1-Dichloroethene
 Concen: 0.944 ug/L
 RT: 2.13 min Scan# 324
 Delta R.T. 0.00 min
 Lab File: VV017041.D
 Acq: 23 Jun 2020 00:57

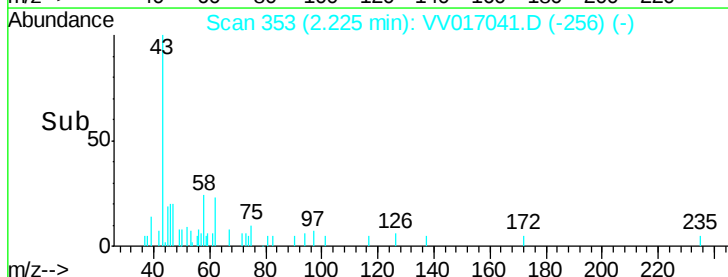
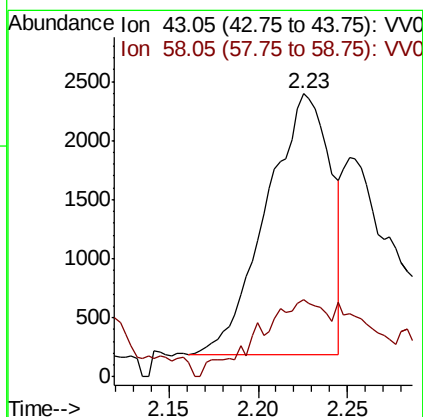
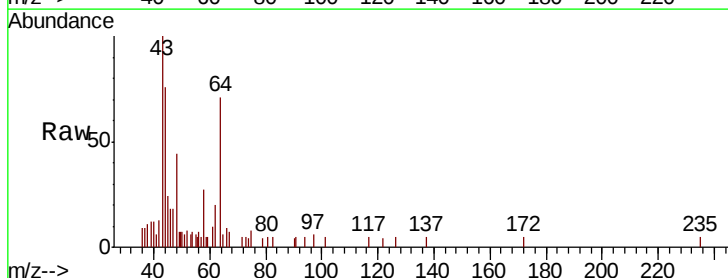
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 MSVOA_V
 ClientSampleId :

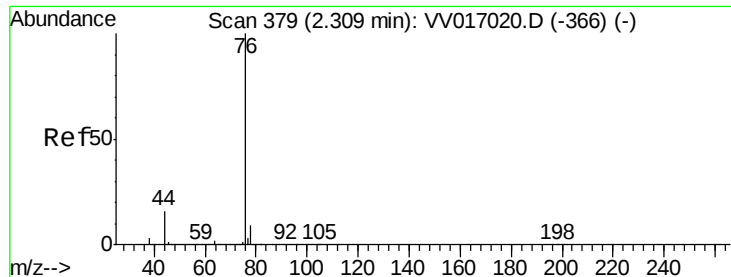
Tot Ion: 96 Resp: 8507
 Ion Ratio Lower Upper
 96 100
 61 230.7 125.0 232.2
 63 545.1 109.8 203.8#



#13
 Acetone
 Concen: 3.784 ug/L
 RT: 2.23 min Scan# 353
 Delta R.T. 0.01 min
 Lab File: VV017041.D
 Acq: 23 Jun 2020 00:57

Tgt Ion: 43 Resp: 5493
 Ion Ratio Lower Upper
 43 100
 58 23.4 0.0 58.4





#14

Carbon disulfide

Concen: 0.059 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV017041.D

Acq: 23 Jun 2020 00:57

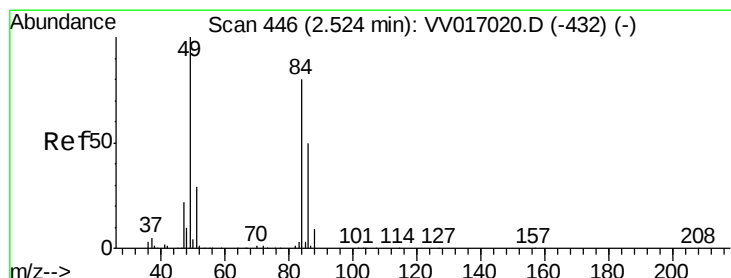
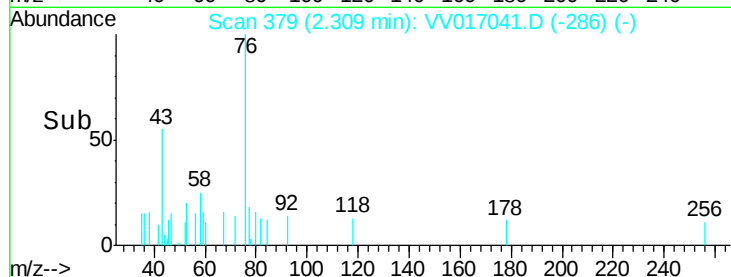
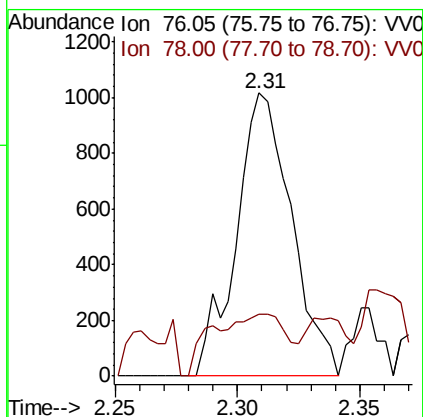
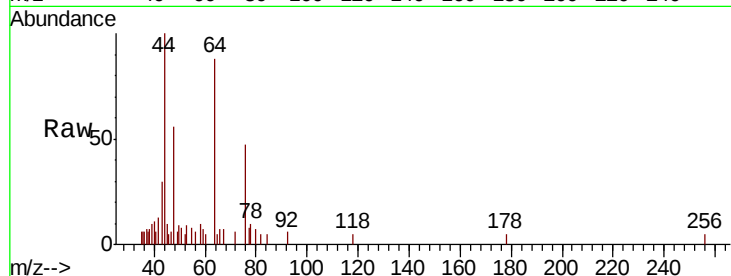
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 76 Resp: 1597

Ion Ratio Lower Upper

76 100

78 22.0 7.7 11.5#



#16

Methylene chloride

Concen: 0.464 ug/L

RT: 2.52 min Scan# 445

Delta R.T. -0.00 min

Lab File: VV017041.D

Acq: 23 Jun 2020 00:57

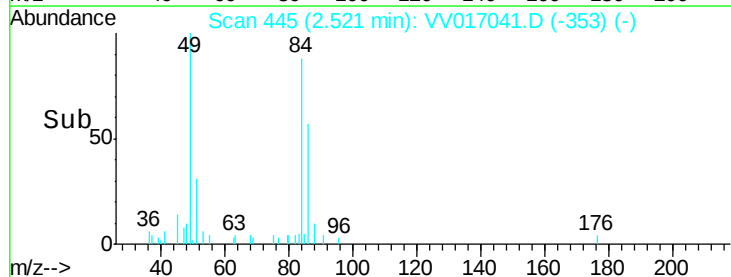
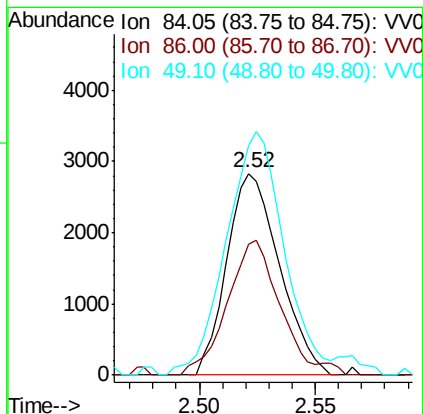
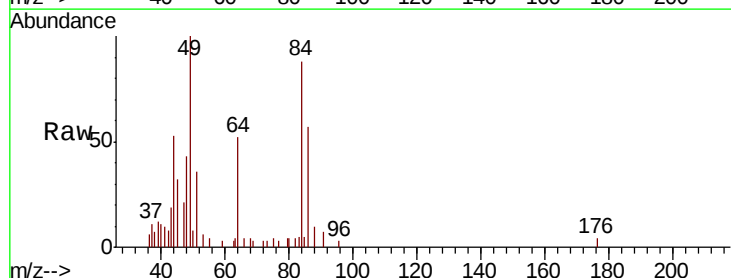
Tgt Ion: 84 Resp: 4473

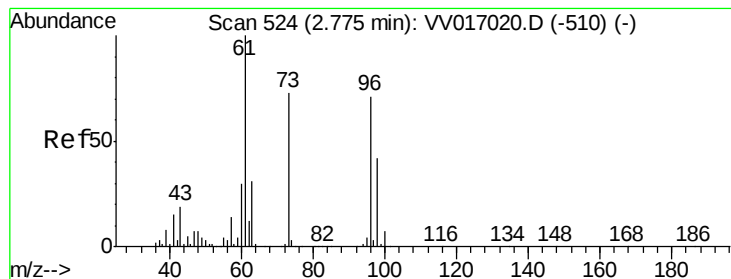
Ion Ratio Lower Upper

84 100

86 65.0 45.8 85.0

49 113.4 89.6 166.4





#18

trans-1,2-Dichloroethene

Concen: 0.237 ug/L

RT: 2.78 min Scan# 524

Delta R.T. 0.00 min

Lab File: VV017041.D

Acq: 23 Jun 2020 00:57

Instrument :
MSVOA_V
ClientSampleId :

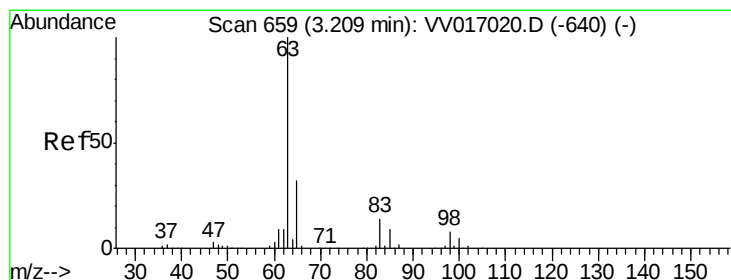
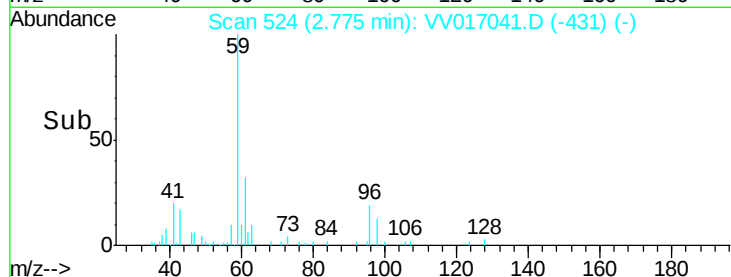
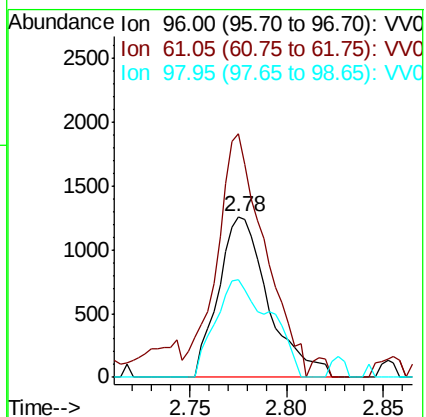
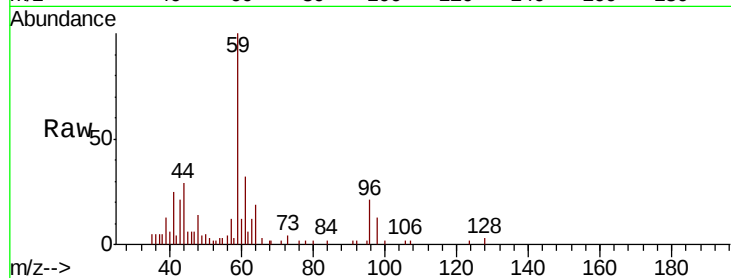
Tot Ion: 96 Resp: 2260

Ion Ratio Lower Upper

96 100

61 151.2 102.3 189.9

98 60.7 44.7 82.9



#19

1,1-Dichloroethane

Concen: 403.478 ug/L

RT: 3.21 min Scan# 659

Delta R.T. 0.00 min

Lab File: VV017041.D

Acq: 23 Jun 2020 00:57

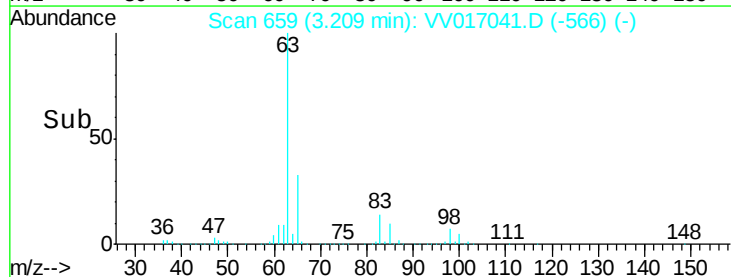
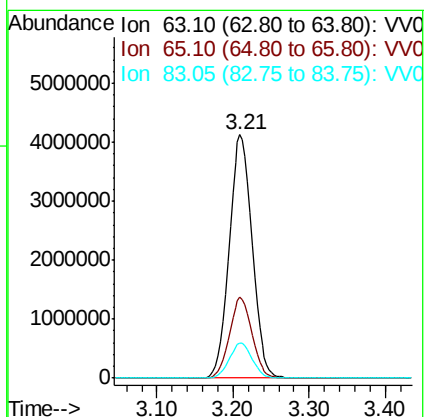
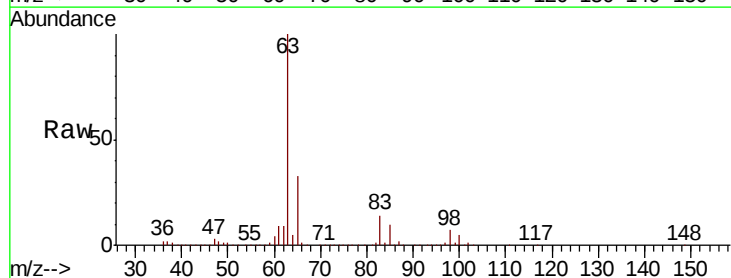
Tgt Ion: 63 Resp: 8654786

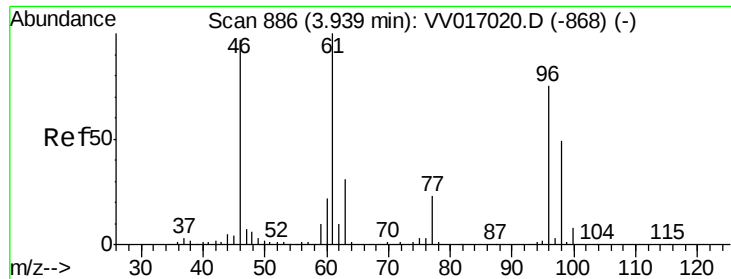
Ion Ratio Lower Upper

63 100

65 33.1 21.8 40.4

83 14.4 9.7 17.9

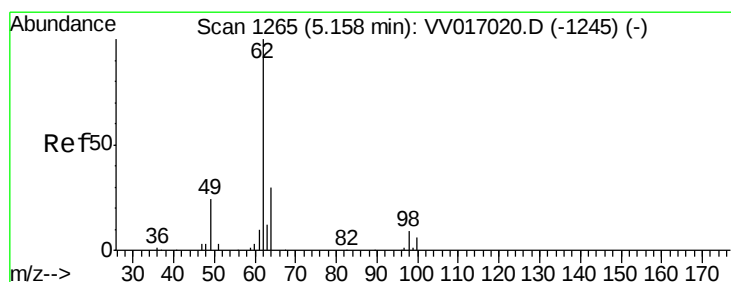
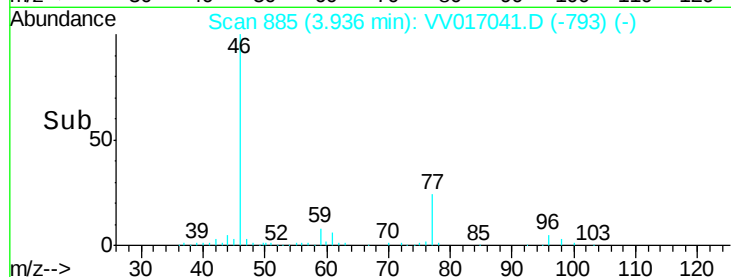
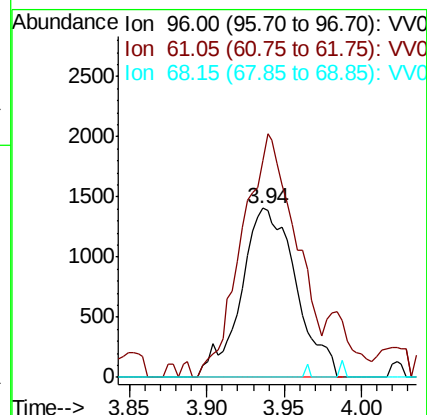
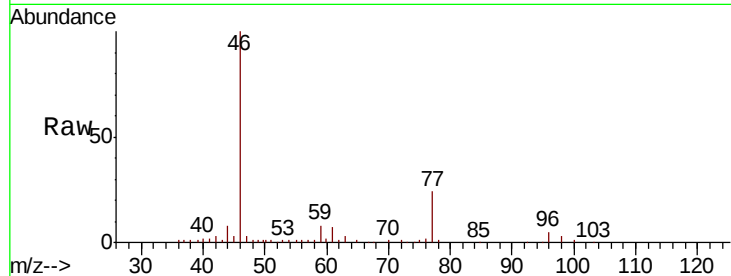




#22
 cis-1,2-Dichloroethene
 Concen: 0.266 ug/L
 RT: 3.94 min Scan# 885
 Delta R.T. -0.00 min
 Lab File: VV017041.D
 Acq: 23 Jun 2020 00:57

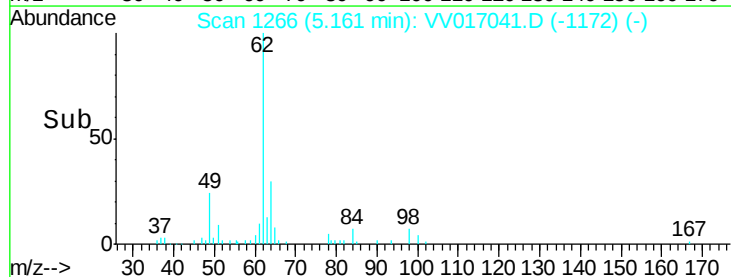
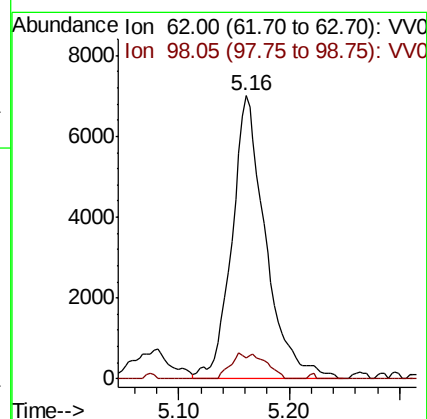
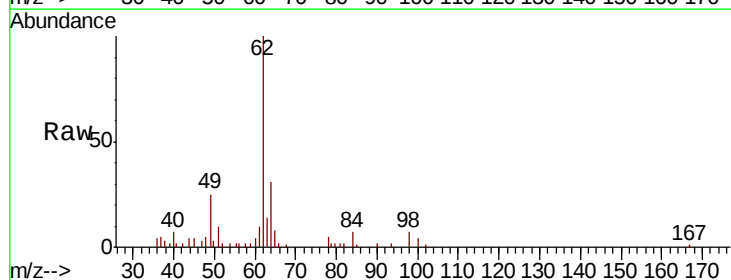
Instrument :
 MSVOA_V
 ClientSampled :

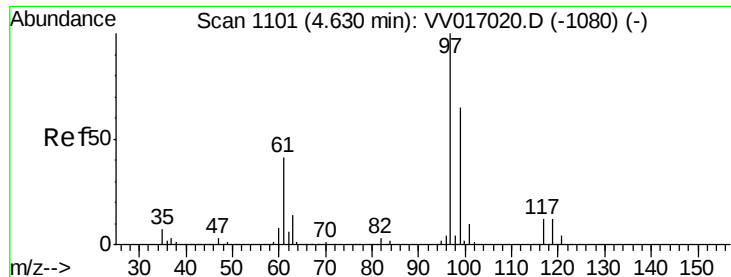
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 Ion Ratio Lower Upper
 96 100
 61 128.5 91.0 169.0
 68 0.0 0.0 0.0



#27
 1,2-Dichloroethane
 Concen: 1.023 ug/L
 RT: 5.16 min Scan# 1266
 Delta R.T. 0.00 min
 Lab File: VV017041.D
 Acq: 23 Jun 2020 00:57

Tgt Ion: 62 Resp: 14898
 Ion Ratio Lower Upper
 62 100
 98 7.5 6.7 10.1

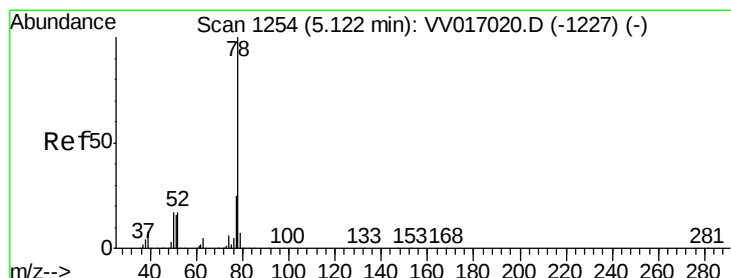
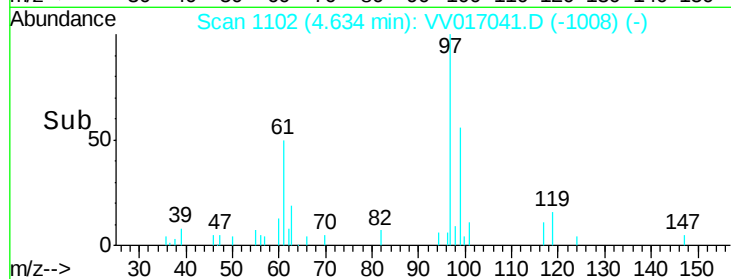
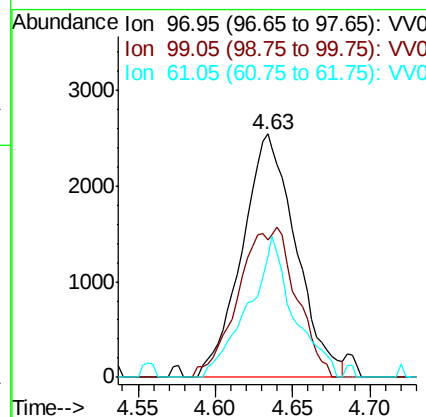
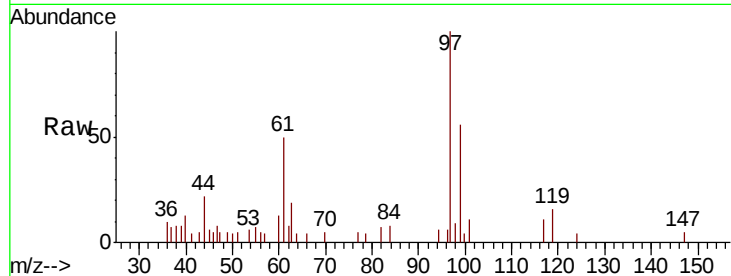




#29
 1,1,1-Trichloroethane
 Concen: 0.288 ug/L
 RT: 4.63 min Scan# 1102
 Delta R.T. 0.00 min
 Lab File: VV017041.D
 Acq: 23 Jun 2020 00:57

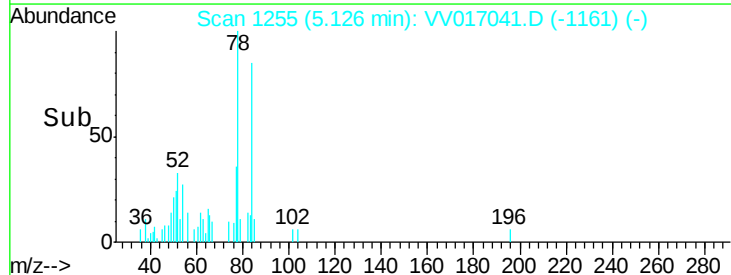
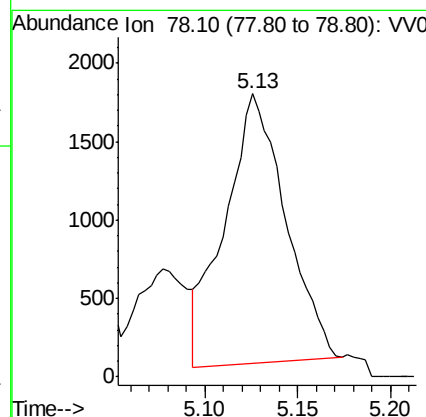
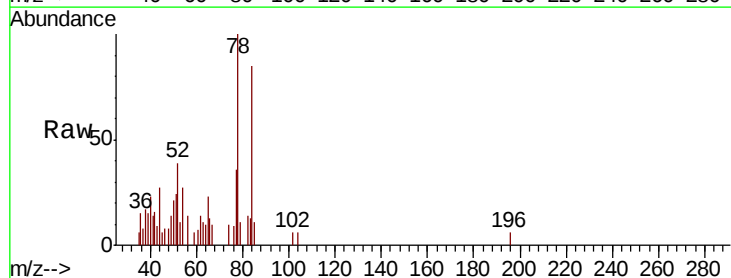
Instrument :
 MSVOA_V
 ClientSampleId :

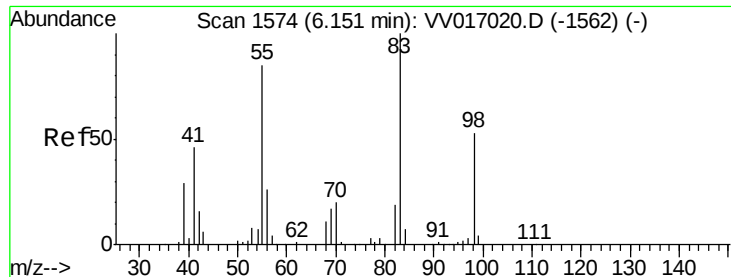
Tot Ion: 97 Resp: 6159
 Ion Ratio Lower Upper
 97 100
 99 35.7 50.3 75.5#
 61 49.1 36.0 54.0



#33
 Benzene
 Concen: 0.084 ug/L
 RT: 5.13 min Scan# 1255
 Delta R.T. 0.00 min
 Lab File: VV017041.D
 Acq: 23 Jun 2020 00:57

Tgt Ion: 78 Resp: 3910

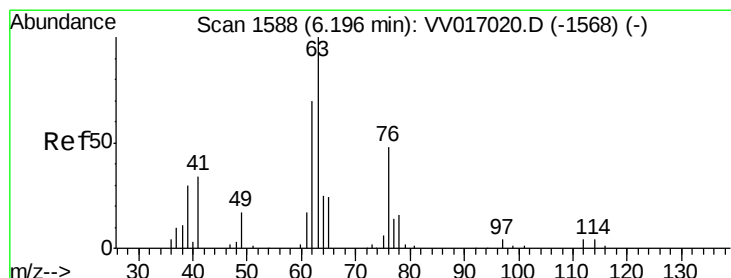
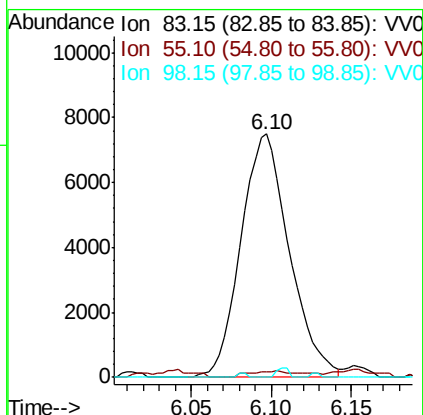
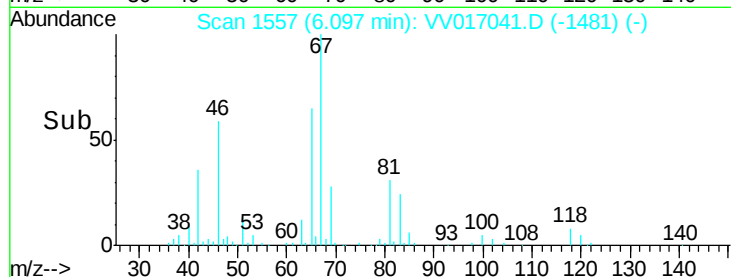
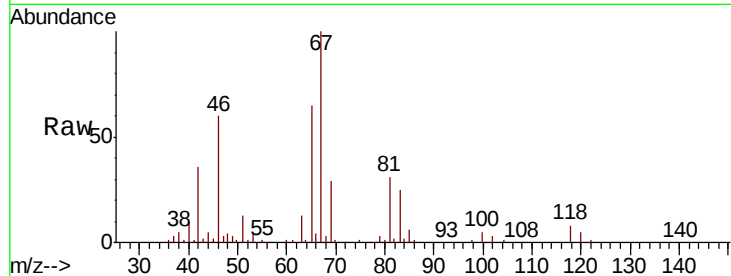




#35
Methvlcvclohexane
Concen: 0.730 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.05 min
Lab File: VV017041.D
Acq: 23 Jun 2020 00:57

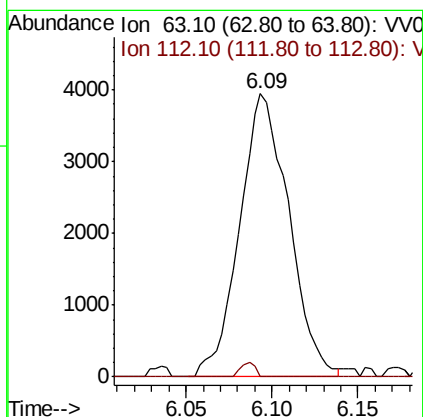
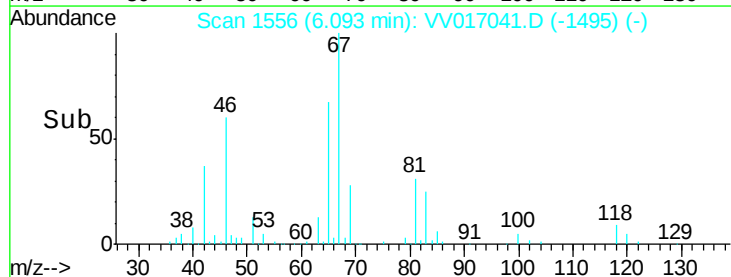
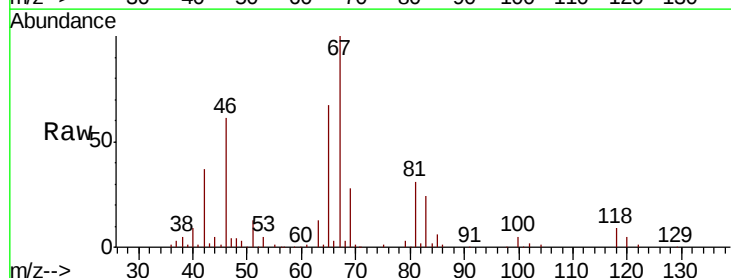
Instrument :
MSVOA_V
ClientSampleId :

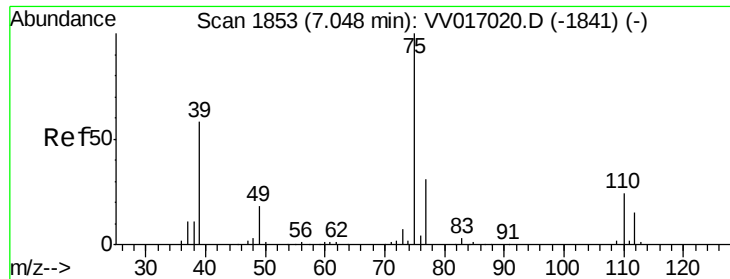
Tot Ion: 83 Resp: 15532
Ion Ratio Lower Upper
83 100
55 0.0 63.6 95.4#
98 1.0 38.8 58.2#



#37
1,2-Dichloropropane
Concen: 0.679 ug/L
RT: 6.09 min Scan# 1556
Delta R.T. -0.10 min
Lab File: VV017041.D
Acq: 23 Jun 2020 00:57

Tgt Ion: 63 Resp: 7852
Ion Ratio Lower Upper
63 100
112 0.0 4.4 6.6#

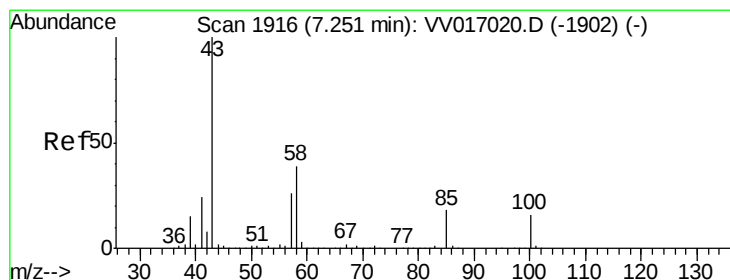
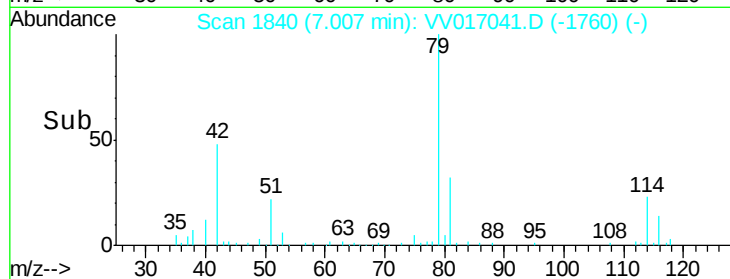
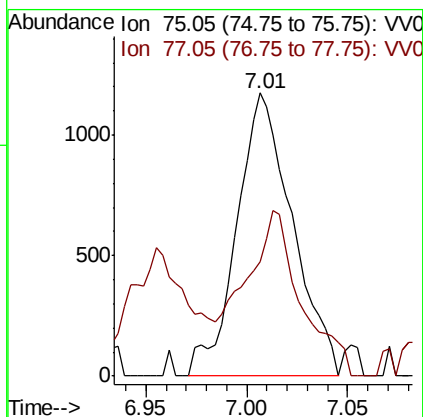
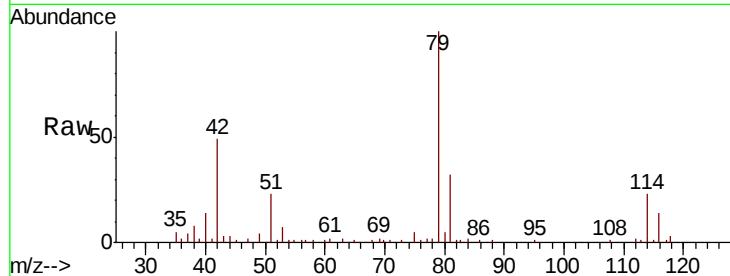




#39
 cis-1,3-Dichloropropene
 Concen: 0.132 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.04 min
 Lab File: VV017041.D
 Acq: 23 Jun 2020 00:57

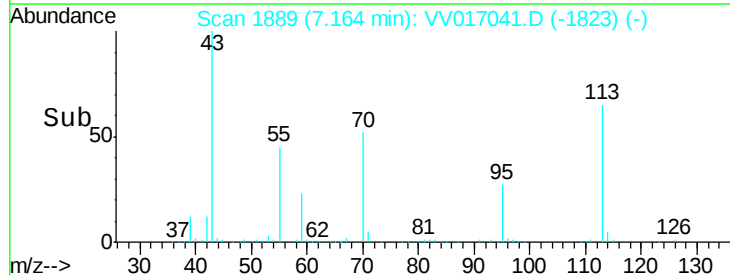
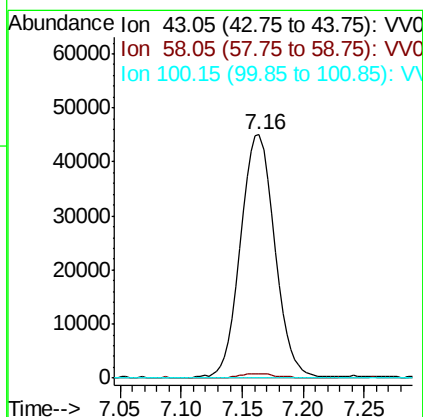
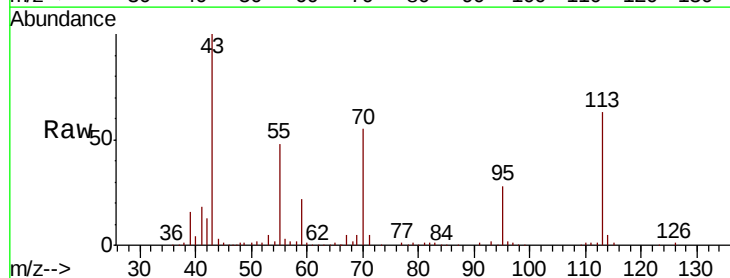
Instrument :
 MSVOA_V
 ClientSampled :

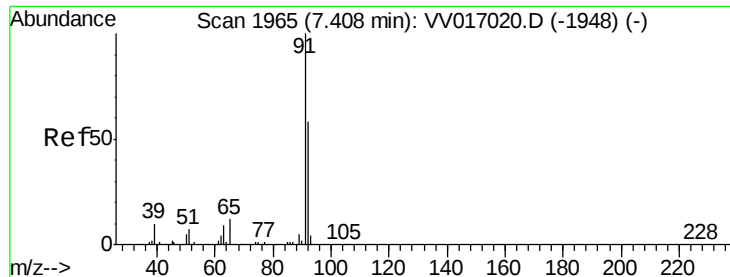
Tot Ion: 75 Resp: 2262
 Ion Ratio Lower Upper
 75 100
 77 40.4 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 12.998 ug/L
 RT: 7.16 min Scan# 1889
 Delta R.T. -0.09 min
 Lab File: VV017041.D
 Acq: 23 Jun 2020 00:57

Tgt Ion: 43 Resp: 86780
 Ion Ratio Lower Upper
 43 100
 58 0.9 30.4 45.6#
 100 0.0 12.7 19.1#





#42

Toluene

Concen: 0.157 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV017041.D

Acq: 23 Jun 2020 00:57

Instrument :

MSVOA_V

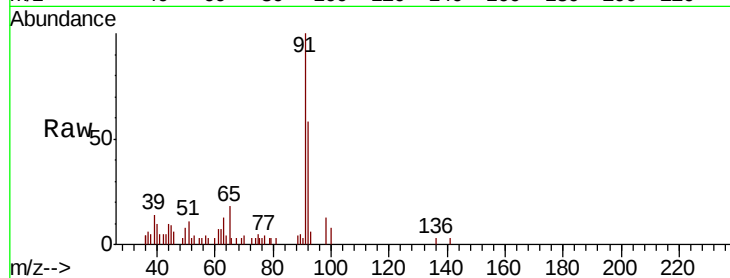
ClientSampleId :

Tot Ion: 91 Resp: 8503

Ion Ratio Lower Upper

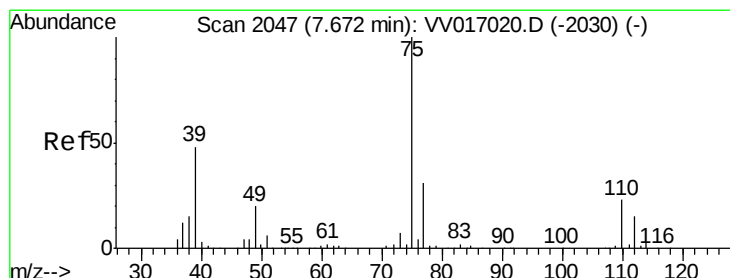
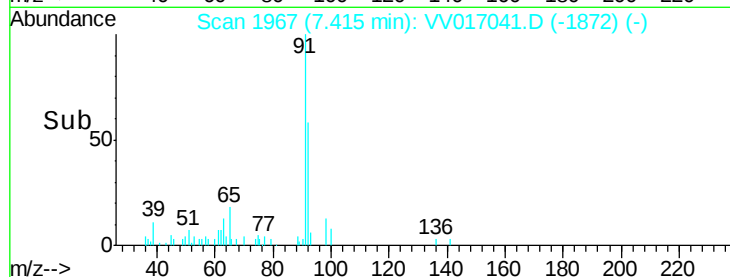
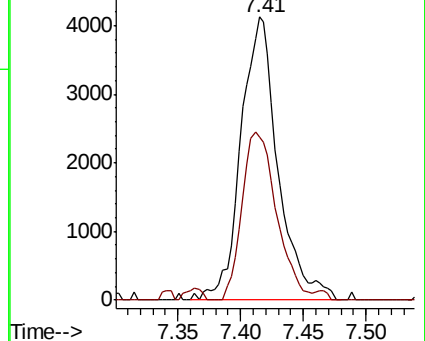
91 100

92 57.8 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: 0.100 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.03 min

Lab File: VV017041.D

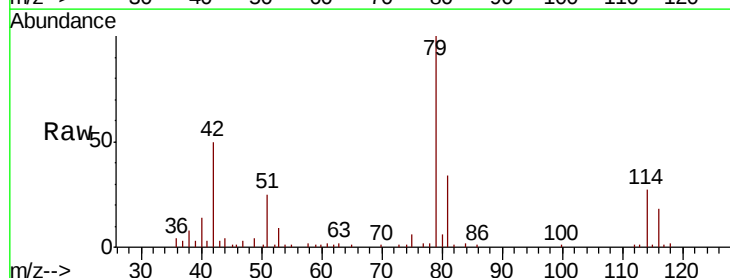
Acq: 23 Jun 2020 00:57

Tgt Ion: 75 Resp: 1484

Ion Ratio Lower Upper

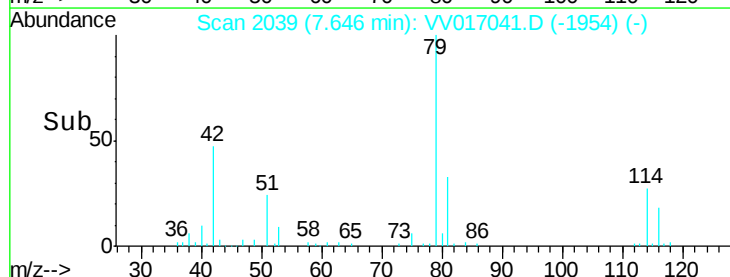
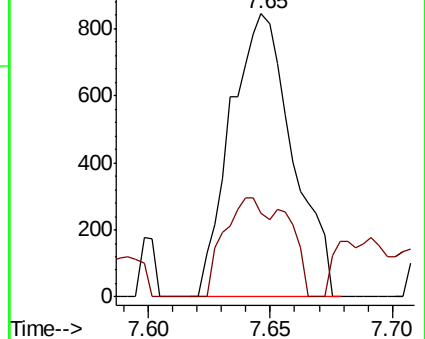
75 100

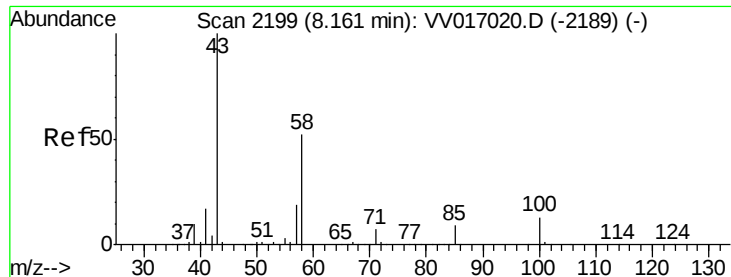
77 29.4 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

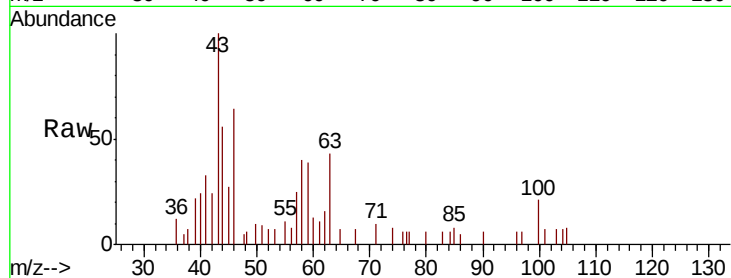




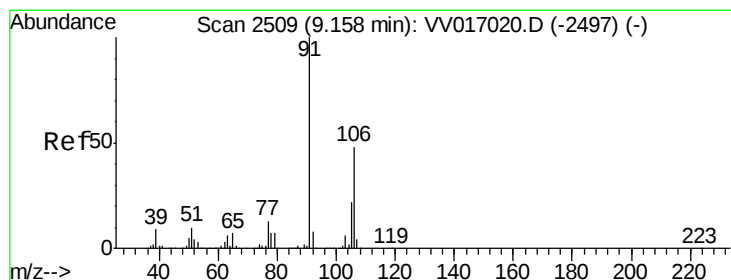
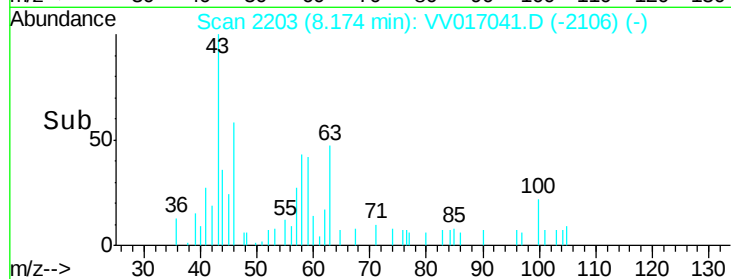
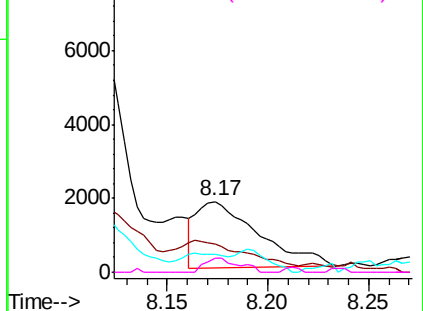
#50
2-Hexanone
Concen: 0.801 ug/L
RT: 8.17 min Scan# 2203
Delta R.T. 0.01 min
Lab File: VV017041.D
Acq: 23 Jun 2020 00:57

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 3806
Ion Ratio Lower Upper
43 100
58 41.8 41.6 62.4
57 20.3 15.4 23.0
100 11.5 10.1 15.1

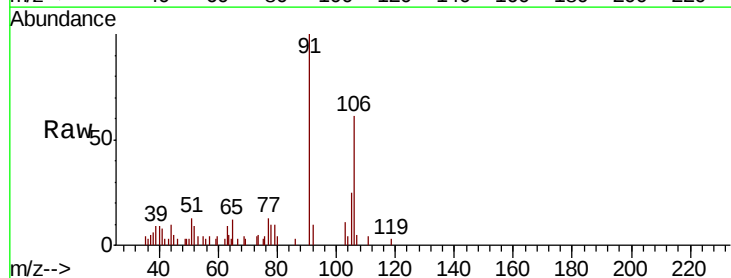


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0



#55
m,p-xylene
Concen: 0.178 ug/L
RT: 9.16 min Scan# 2510
Delta R.T. 0.00 min
Lab File: VV017041.D
Acq: 23 Jun 2020 00:57

Tgt Ion: 106 Resp: 4037
Ion Ratio Lower Upper
106 100
91 164.6 142.7 264.9



Abundance Ion 106.15 (105.85 to 106.85): VV0
Ion 91.15 (90.85 to 91.85): VV0

