

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052720\
 Data File : VV016234.D
 Acq On : 27 May 2020 17:40
 Operator : SY/MD
 Sample : L2754-16
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 28 01:25:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 28 01:17:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	89709	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	87090	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	39585	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	26881	4.67	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.40%
7) Chloroethane-d5	1.58	69	24489	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.80%
11) 1,1-Dichloroethene-d2	2.13	63	37774	3.49	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.80%
20) 2-Butanone-d5	3.94	46	75687	52.96	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.92%
24) Chloroform-d	4.38	84	53230	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.80%
26) 1,2-Dichloroethane-d4	5.06	65	30108	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.20%
32) Benzene-d6	5.07	84	103609	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.00%
36) 1,2-Dichloropropane-d6	6.10	67	33847	5.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.40%
41) Toluene-d8	7.34	98	93747	4.56	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.20%
45) trans-1,3-Dichloropropene-	7.65	79	10917	4.39	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.80%
48) 2-Hexanone-d5	8.12	63	54285	47.58	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.16%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	22980	4.66	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.20%
65) 1,2-Dichlorobenzene-d4	11.65	152	32290	4.88	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.60%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	3139	0.400 ug/L	86
8) Chloroethane	1.61	64	486	0.111 ug/L #	42
12) 1,1-Dichloroethene	2.13	96	459	0.087 ug/L #	1
13) Acetone	2.20	43	1936	2.188 ug/L	74
14) Carbon disulfide	2.31	76	813	0.050 ug/L #	75
18) trans-1,2-Dichloroethene	2.78	96	10895	1.882 ug/L	95
22) cis-1,2-Dichloroethene	3.94	96	147869	21.592 ug/L	99
25) Chloroform	4.41	83	2290	0.197 ug/L	82
27) 1,2-Dichloroethane	5.07	62	639	0.084 ug/L #	79
33) Benzene	5.14	78	2535	0.101 ug/L	100
34) Trichloroethene	5.94	95	170306	26.085 ug/L	98
35) Methylcyclohexane	6.10	83	8155	0.741 ug/L #	16
37) 1,2-Dichloropropane	6.10	63	4015	0.653 ug/L #	88
39) cis-1,3-Dichloropropene	7.01	75	986	0.113 ug/L #	70
42) Toluene	7.42	91	2064	0.076 ug/L	99
46) trans-1,3-Dichloropropene	7.64	75	430	0.059 ug/L #	54
47) 1,1,2-Trichloroethane	7.99	97	4915	1.216 ug/L #	1

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 28 01:17:22 2020
Response via : Initial Calibration

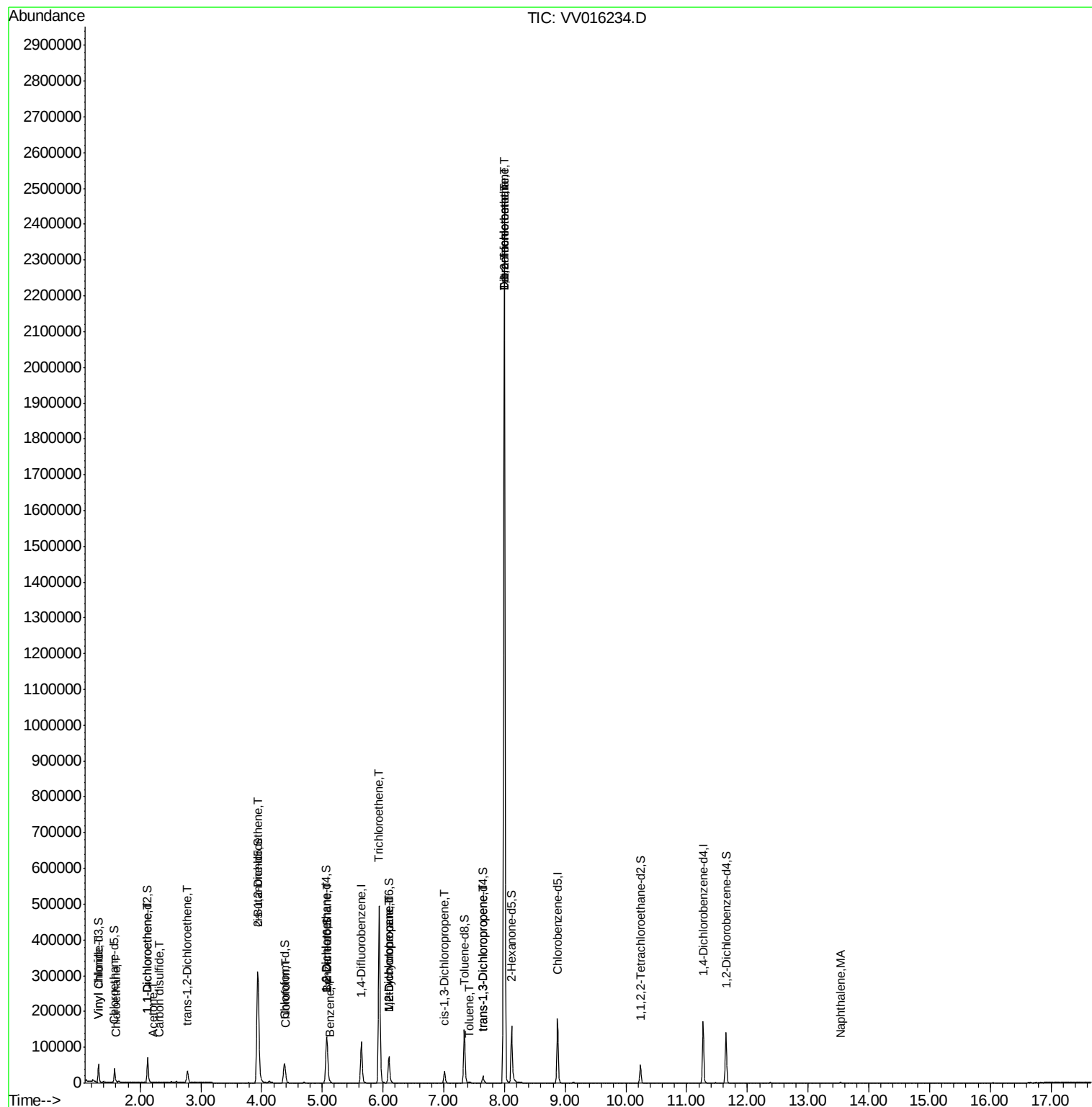
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	8.00	164	484082	103.276	uq/L	99
51) Dibromochloromethane	8.00	129	475794	111.113	uq/L #	10
70) Naphthalene	13.53	128	1953	0.119	uq/L #	92

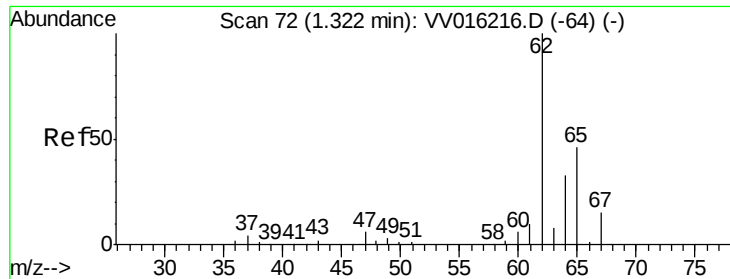
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.400 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV016234.D

Acq: 27 May 2020 17:40

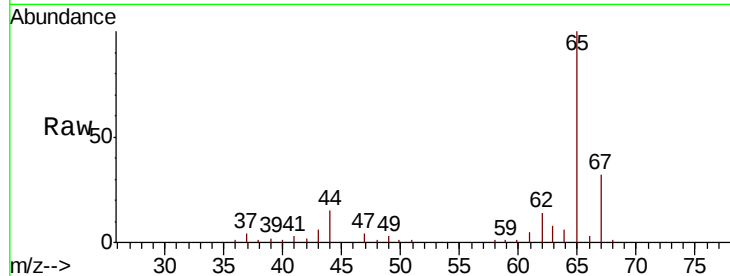
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 3139

Ion Ratio Lower Upper

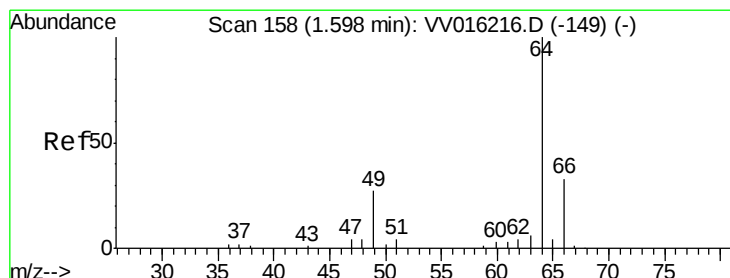
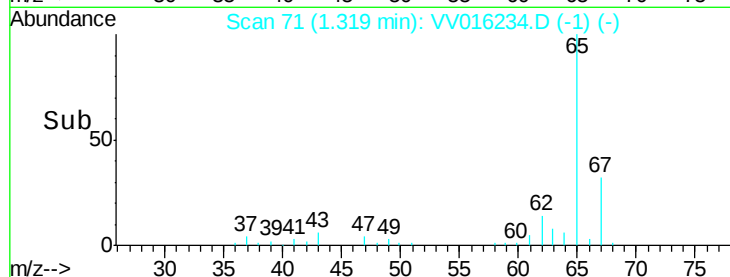
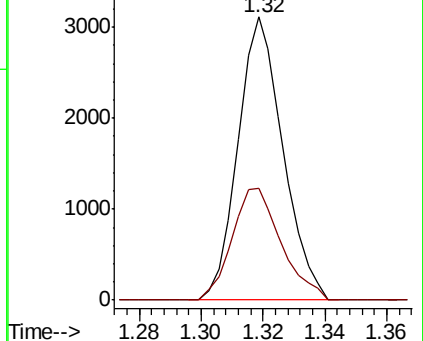
62 100

64 39.6 22.1 41.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#8

Chloroethane

Concen: 0.111 ug/L

RT: 1.61 min Scan# 162

Delta R.T. 0.01 min

Lab File: VV016234.D

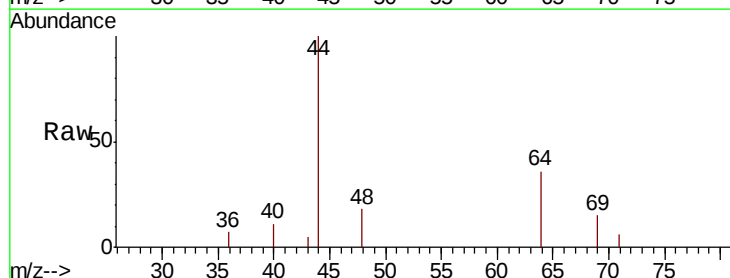
Acq: 27 May 2020 17:40

Tgt Ion: 64 Resp: 486

Ion Ratio Lower Upper

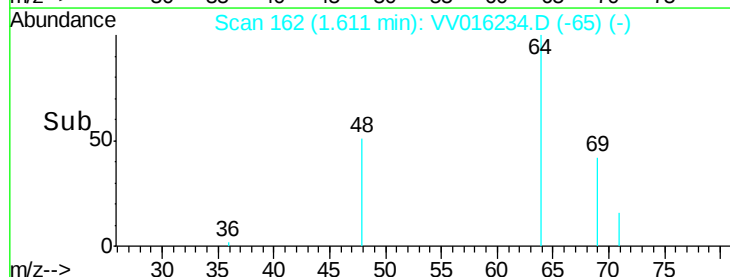
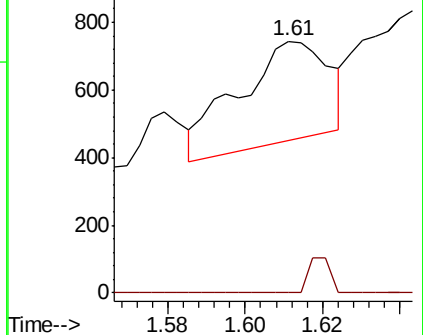
64 100

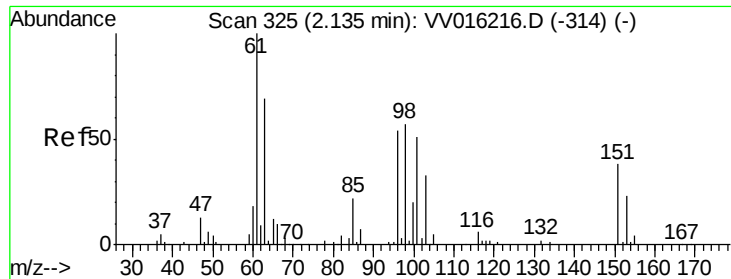
66 0.0 22.9 42.5#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

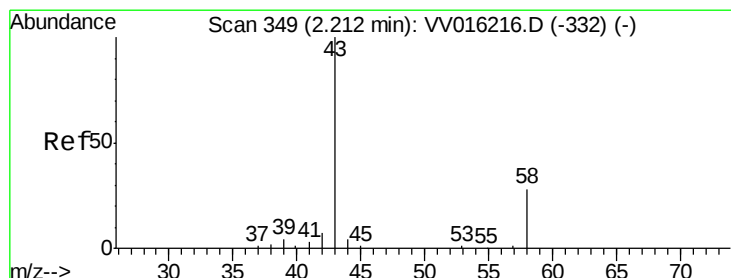
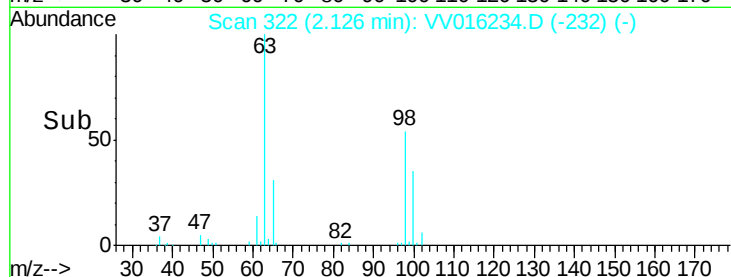
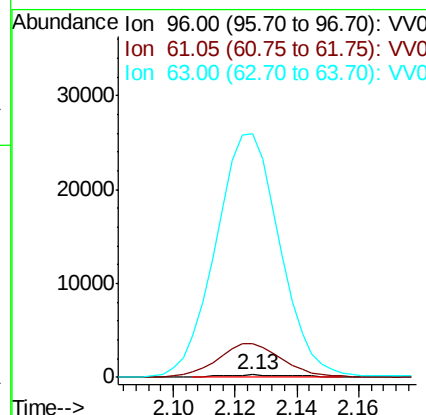
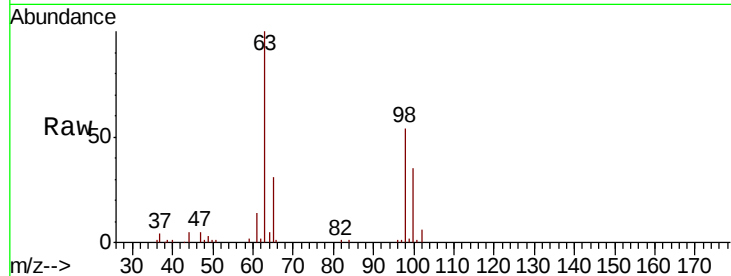




#12
 1,1-Dichloroethene
 Concen: 0.087 ug/L
 RT: 2.13 min Scan# 322
 Delta R.T. -0.01 min
 Lab File: VV016234.D
 Acq: 27 May 2020 17:40

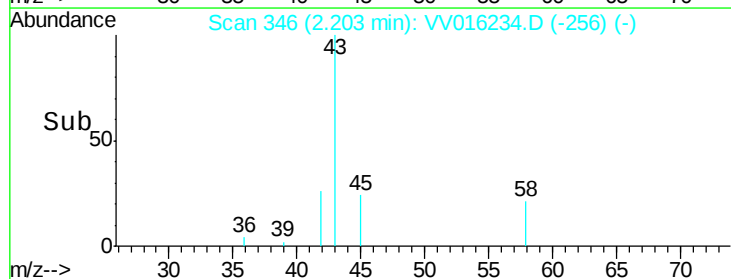
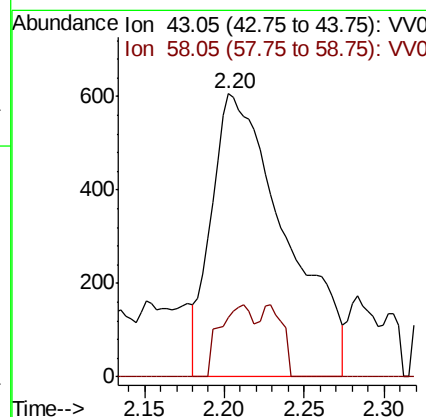
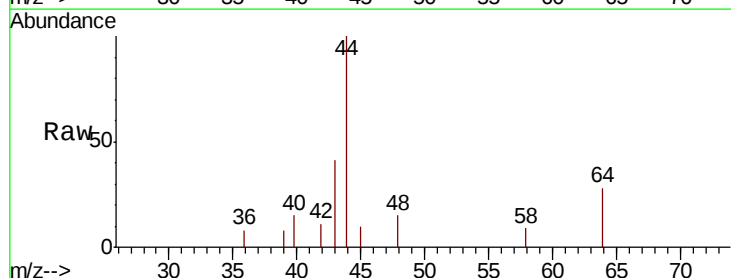
Instrument :
 MSVOA_V
 ClientSampleId :

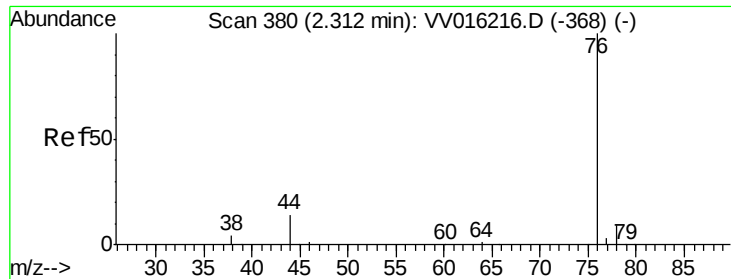
Tot Ion: 96 Resp: 459
 Ion Ratio Lower Upper
 96 100
 61 1425.2 124.9 231.9#
 63 10214.2 80.4 149.2#



#13
 Acetone
 Concen: 2.188 ug/L
 RT: 2.20 min Scan# 346
 Delta R.T. -0.01 min
 Lab File: VV016234.D
 Acq: 27 May 2020 17:40

Tgt Ion: 43 Resp: 1936
 Ion Ratio Lower Upper
 43 100
 58 11.4 0.0 48.8





#14

Carbon disulfide

Concen: 0.050 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV016234.D

Acq: 27 May 2020 17:40

Instrument :

MSVOA_V

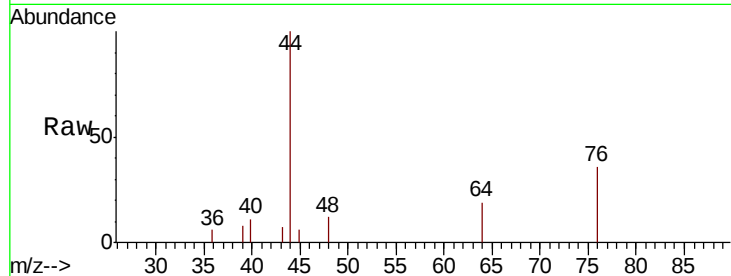
ClientSampleId :

Tot Ion: 76 Resp: 813

Ion Ratio Lower Upper

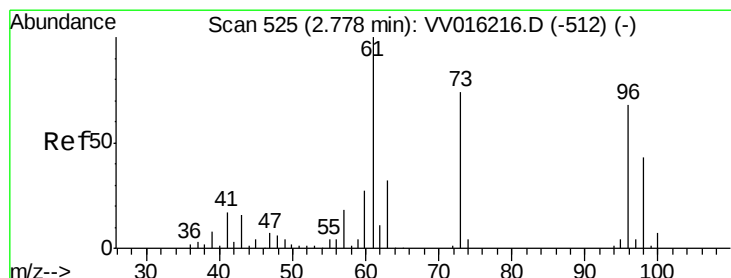
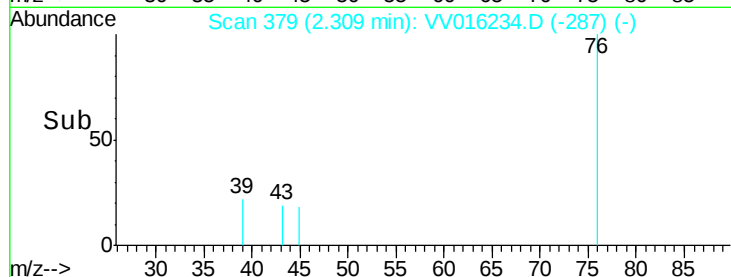
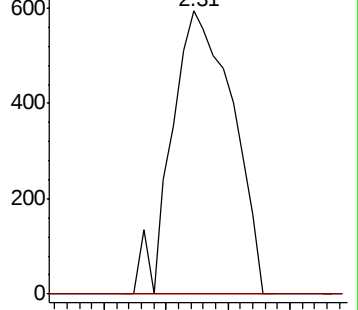
76 100

78 0.0 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0



#18

trans-1,2-Dichloroethene

Concen: 1.882 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV016234.D

Acq: 27 May 2020 17:40

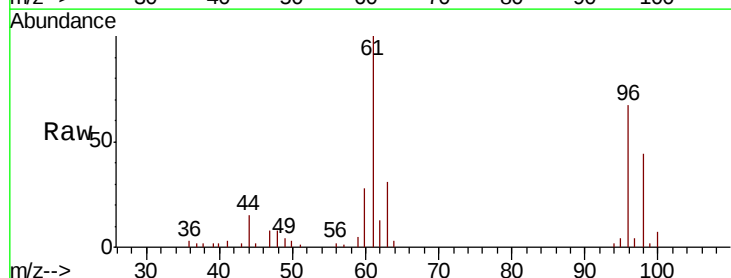
Tgt Ion: 96 Resp: 10895

Ion Ratio Lower Upper

96 100

61 149.7 99.8 185.4

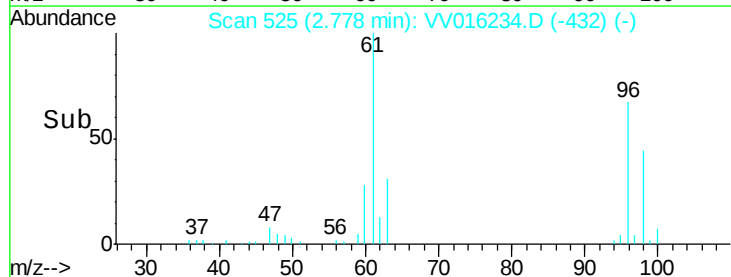
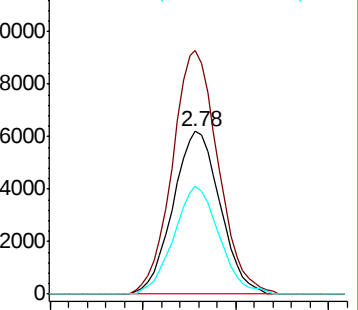
98 66.1 44.0 81.6

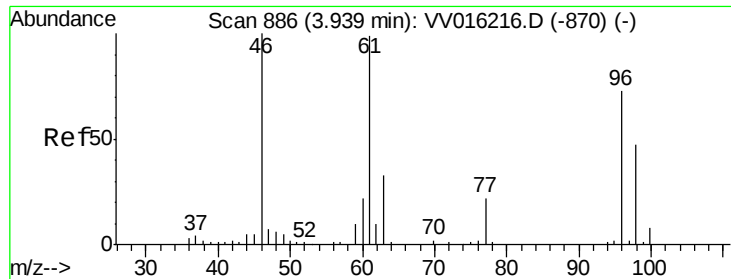


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0



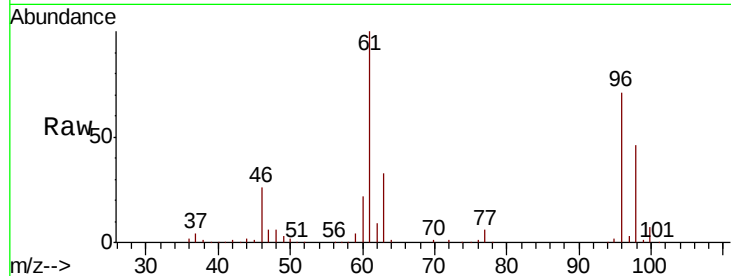


#22

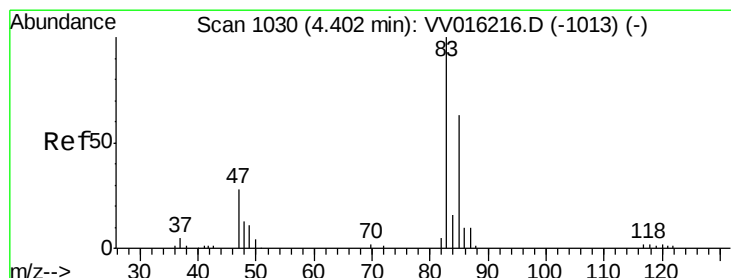
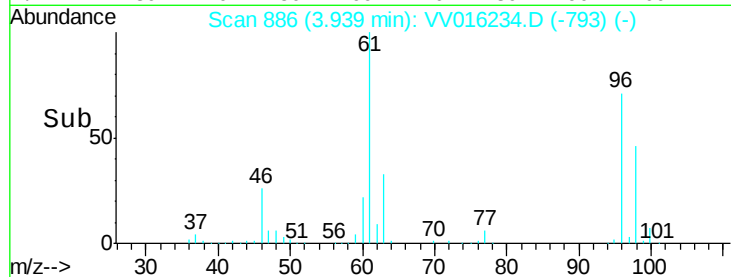
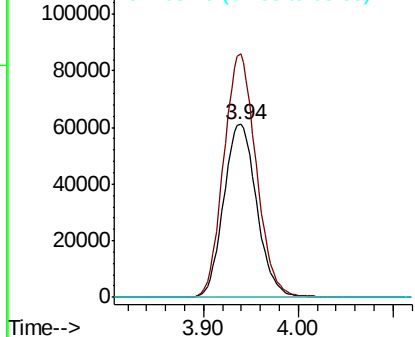
cis-1,2-Dichloroethene
 Concen: 21.592 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV016234.D
 Acq: 27 May 2020 17:40

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 96 Resp: 147869
 Ion Ratio Lower Upper
 96 100
 61 141.0 99.7 185.1
 68 0.0 0.0 0.0



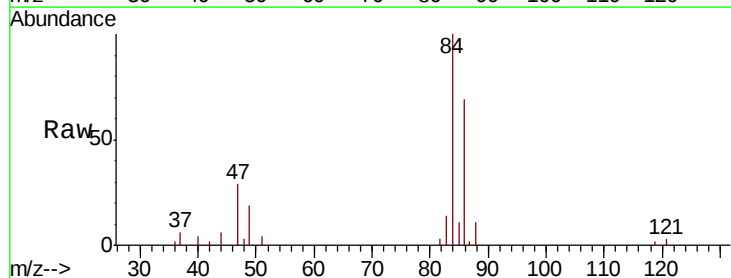
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



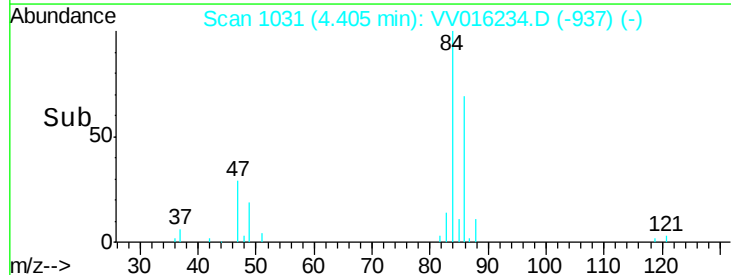
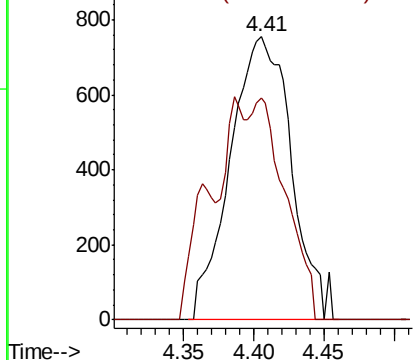
#25

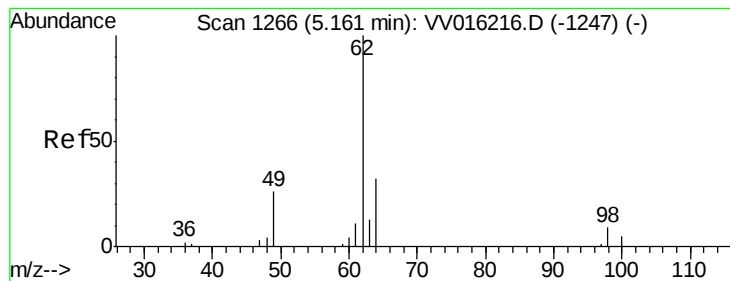
Chloroform
 Concen: 0.197 ug/L
 RT: 4.41 min Scan# 1031
 Delta R.T. 0.00 min
 Lab File: VV016234.D
 Acq: 27 May 2020 17:40

Tgt Ion: 83 Resp: 2290
 Ion Ratio Lower Upper
 83 100
 85 78.3 45.1 83.7



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





#27

1,2-Dichloroethane

Concen: 0.084 ug/L

RT: 5.07 min Scan# 1239

Delta R.T. -0.09 min

Lab File: VV016234.D

Acq: 27 May 2020 17:40

Instrument :

MSVOA_V

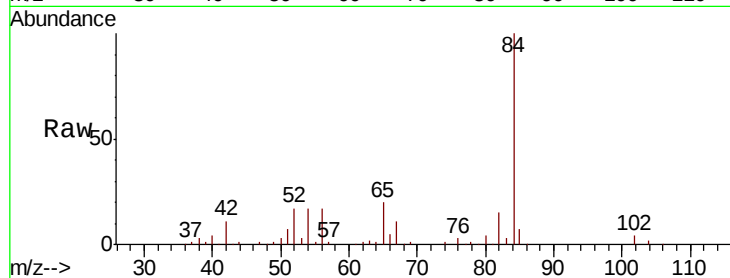
ClientSampleId :

Tot Ion: 62 Resp: 639

Ion Ratio Lower Upper

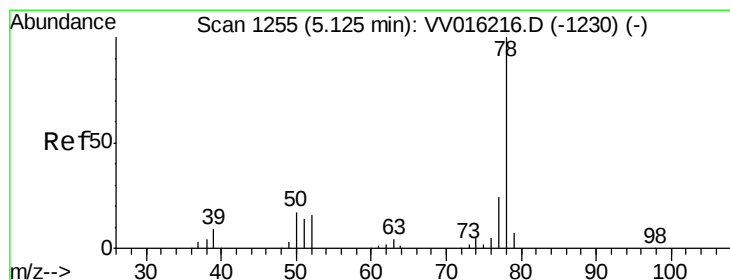
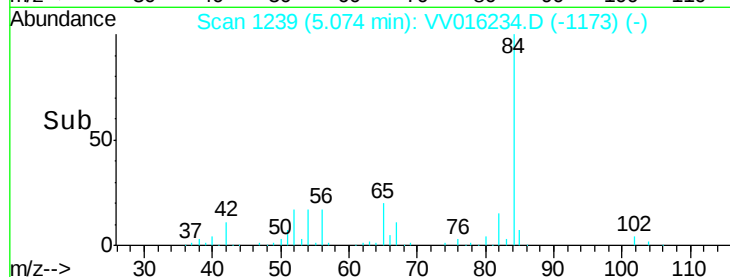
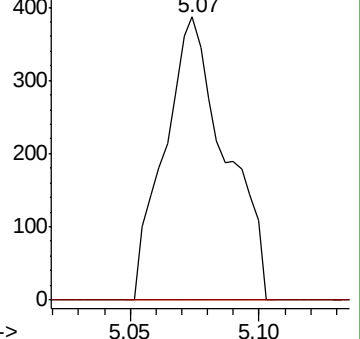
62 100

98 0.0 5.7 8.5#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.05 (97.75 to 98.75): VV0



#33

Benzene

Concen: 0.101 ug/L

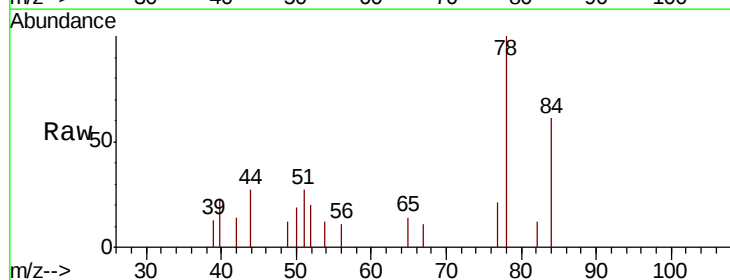
RT: 5.14 min Scan# 1258

Delta R.T. 0.01 min

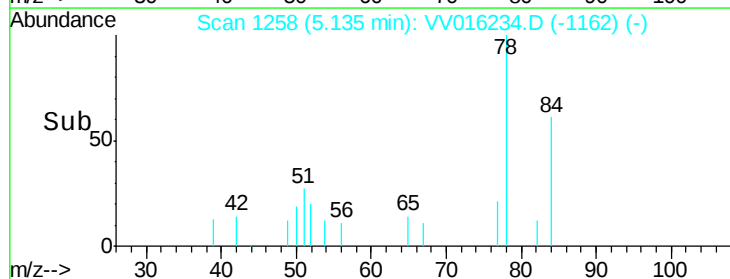
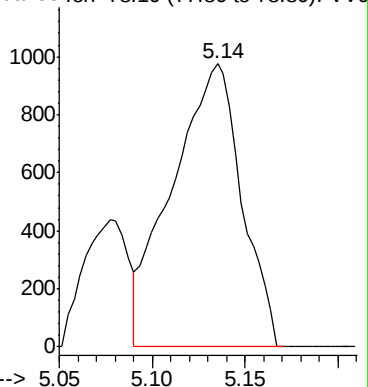
Lab File: VV016234.D

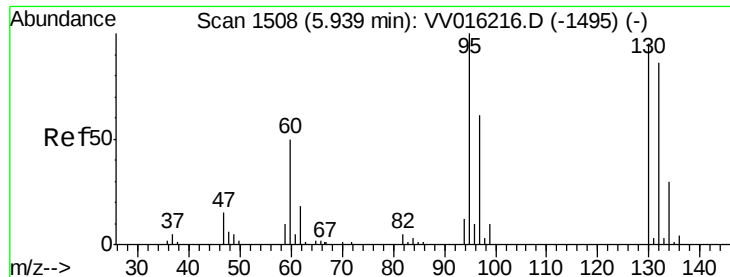
Acq: 27 May 2020 17:40

Tgt Ion: 78 Resp: 2535



Abundance Ion 78.10 (77.80 to 78.80): VV0

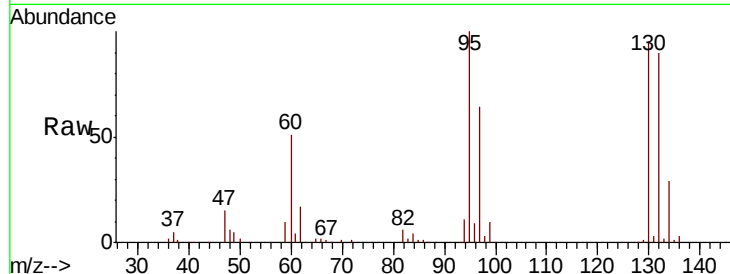




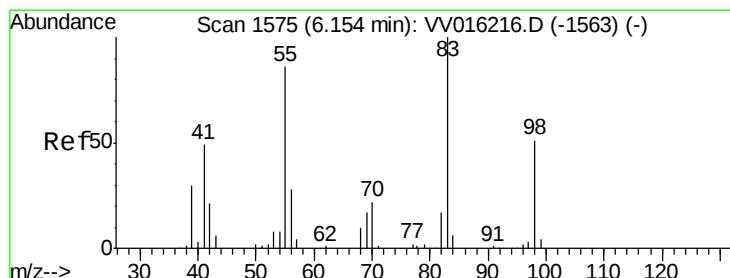
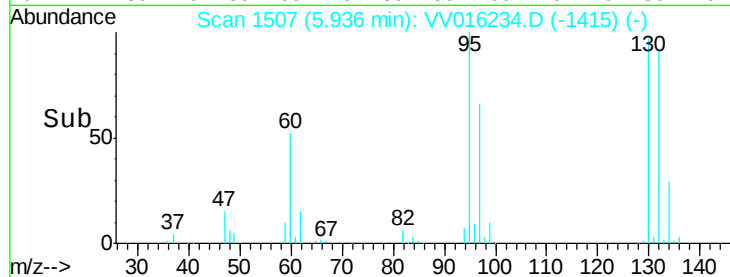
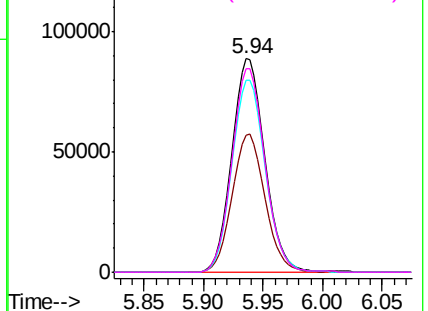
#34
 Trichloroethene
 Concen: 26.085 ug/L
 RT: 5.94 min Scan# 1507
 Delta R.T. -0.00 min
 Lab File: VV016234.D
 Acq: 27 May 2020 17:40

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 170306
 Ion Ratio Lower Upper
 95 100
 97 64.4 43.6 81.0
 132 89.6 63.9 118.7
 130 95.5 65.2 121.0

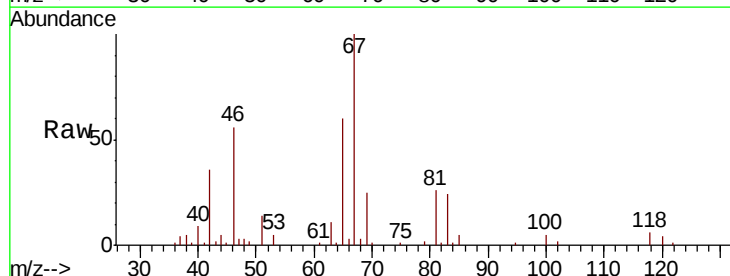


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

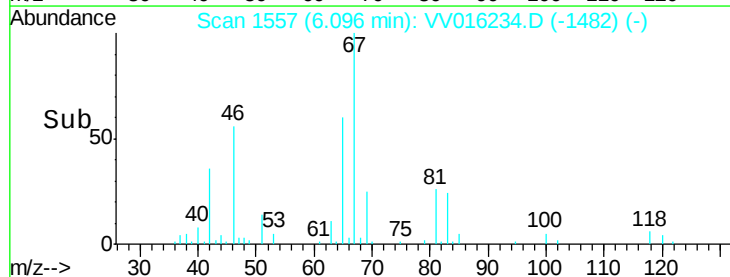
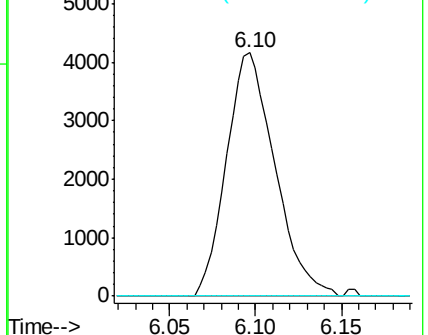


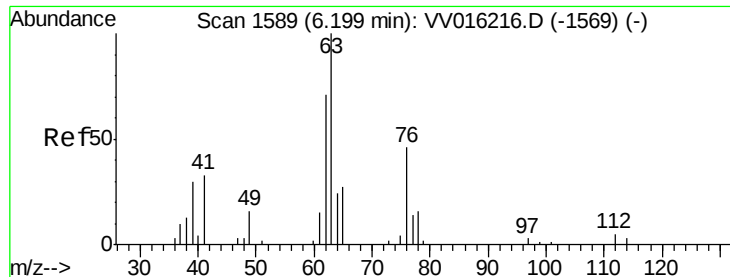
#35
 Methylcyclohexane
 Concen: 0.741 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.06 min
 Lab File: VV016234.D
 Acq: 27 May 2020 17:40

Tgt Ion: 83 Resp: 8155
 Ion Ratio Lower Upper
 83 100
 55 0.0 65.4 98.0#
 98 0.0 39.3 58.9#



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

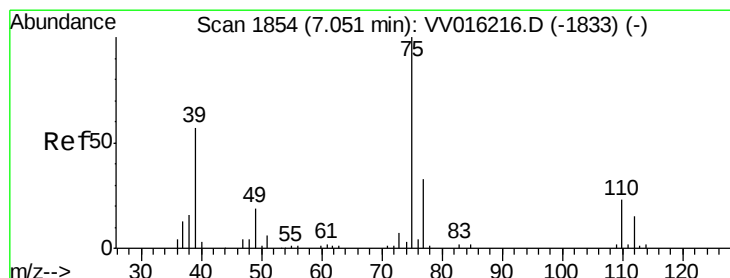
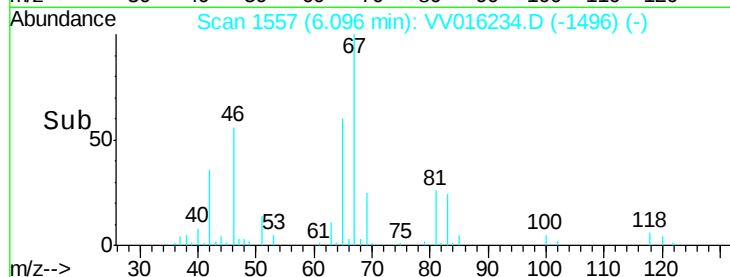
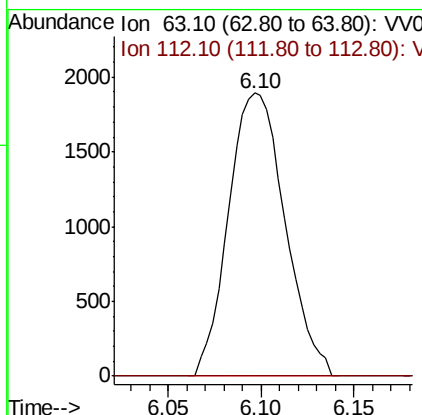
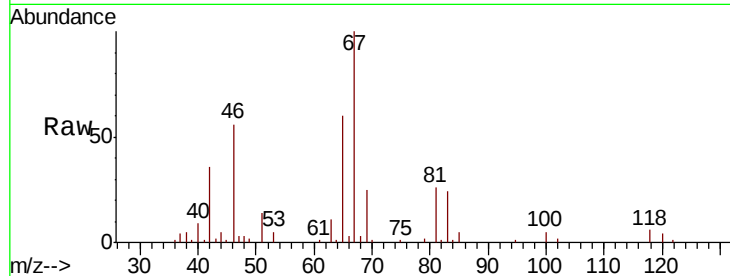




#37
 1,2-Dichloropropane
 Concen: 0.653 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.10 min
 Lab File: VV016234.D
 Acq: 27 May 2020 17:40

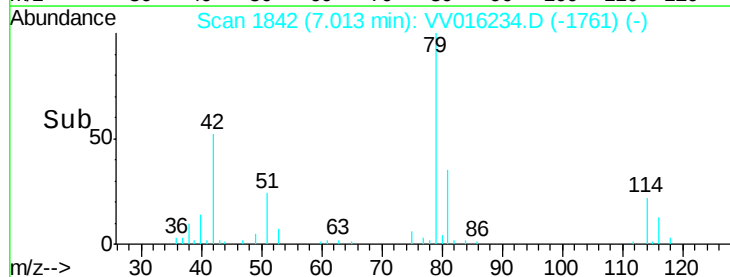
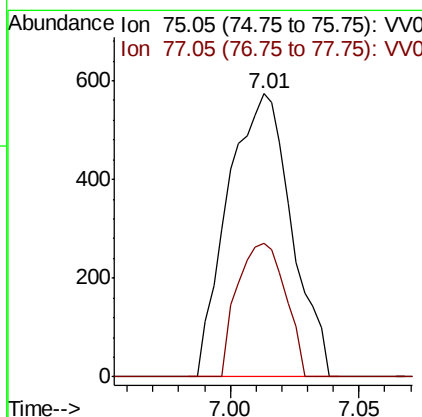
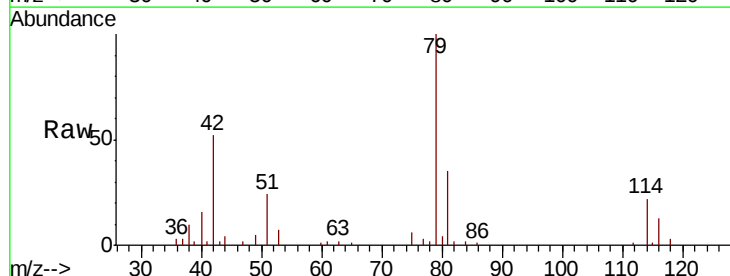
Instrument :
 MSVOA_V
 ClientSampleId :

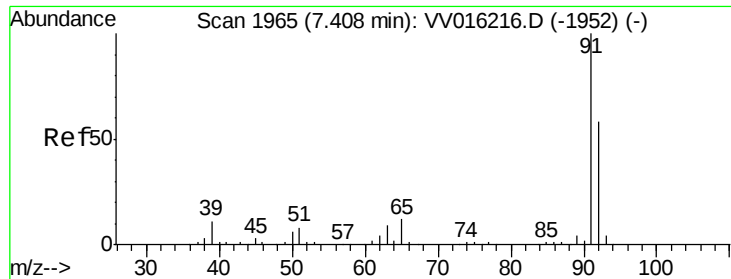
Tot Ion: 63 Resp: 4015
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#39
 cis-1,3-Dichloropropene
 Concen: 0.113 ug/L
 RT: 7.01 min Scan# 1842
 Delta R.T. -0.04 min
 Lab File: VV016234.D
 Acq: 27 May 2020 17:40

Tgt Ion: 75 Resp: 986
 Ion Ratio Lower Upper
 75 100
 77 47.3 21.7 40.3#





#42

Toluene

Concen: 0.076 ug/L

RT: 7.42 min Scan# 1968

Delta R.T. 0.01 min

Lab File: VV016234.D

Acq: 27 May 2020 17:40

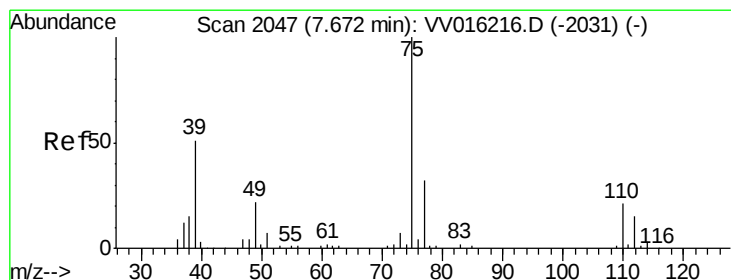
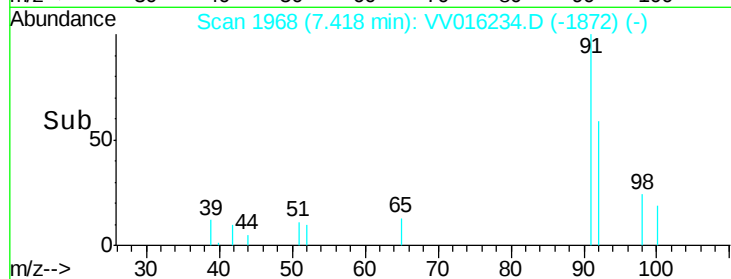
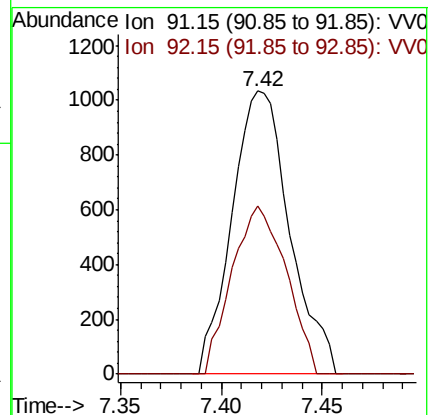
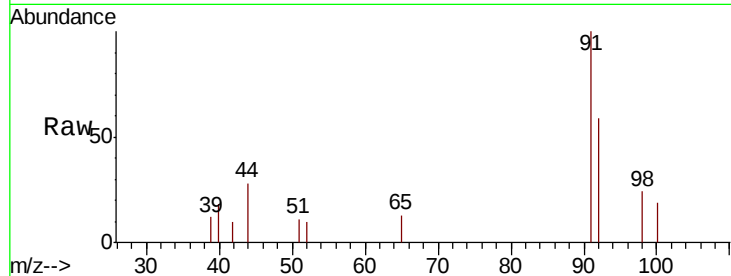
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 2064

Ion Ratio Lower Upper

91 100

92 59.2 40.9 76.0



#46

trans-1,3-Dichloropropene

Concen: 0.059 ug/L

RT: 7.64 min Scan# 2037

Delta R.T. -0.03 min

Lab File: VV016234.D

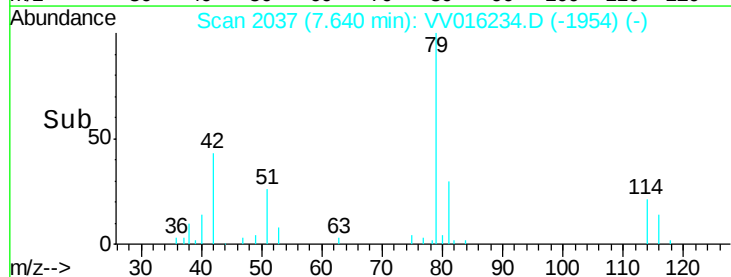
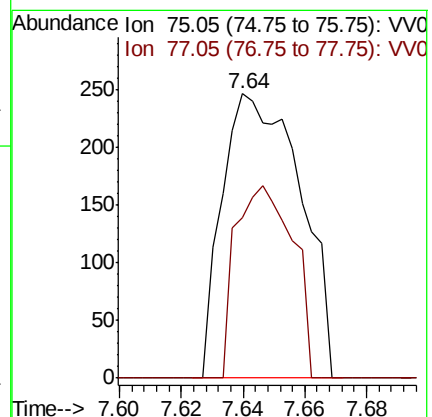
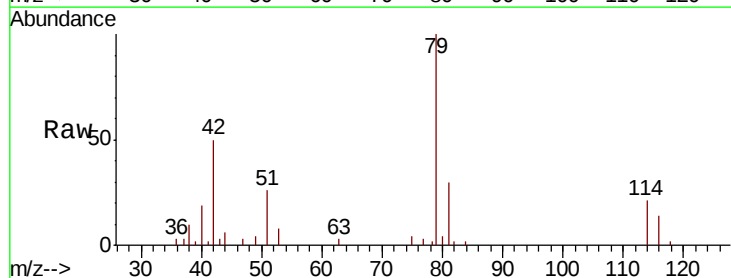
Acq: 27 May 2020 17:40

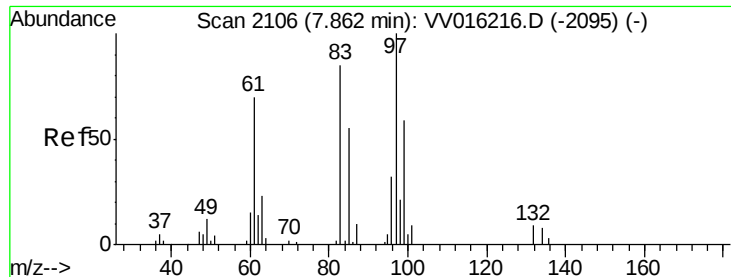
Tgt Ion: 75 Resp: 430

Ion Ratio Lower Upper

75 100

77 56.5 21.7 40.3#

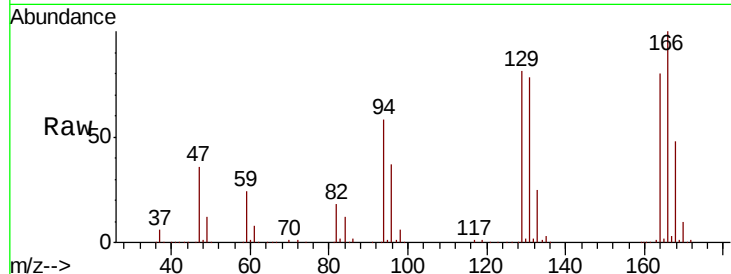




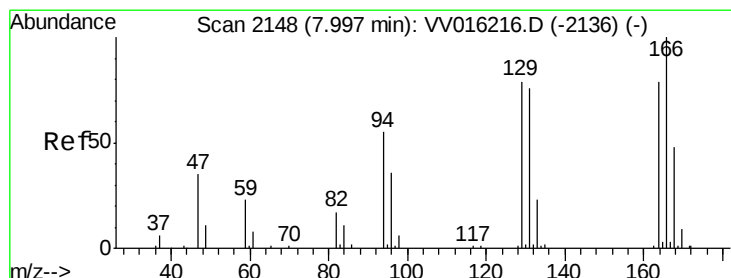
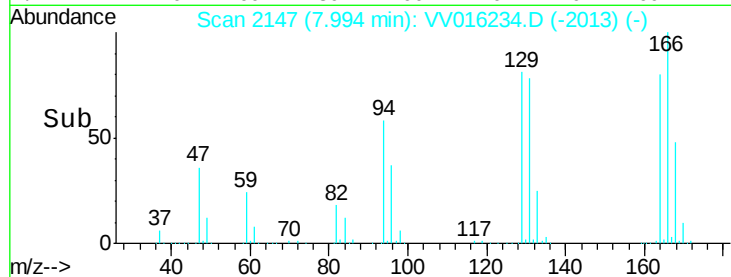
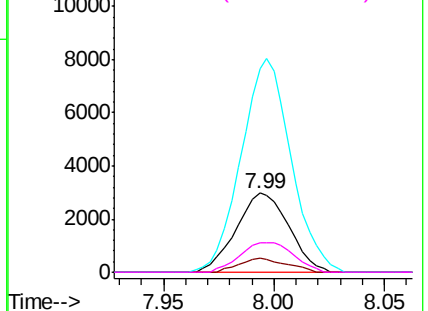
#47
 1,1,2-Trichloroethane
 Concen: 1.216 ug/L
 RT: 7.99 min Scan# 2147
 Delta R.T. 0.13 min
 Lab File: VV016234.D
 Acq: 27 May 2020 17:40

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 97 Resp: 4915
 Ion Ratio Lower Upper
 97 100
 99 18.0 40.8 75.8#
 83 257.5 60.0 111.4#
 85 38.0 39.3 73.1#

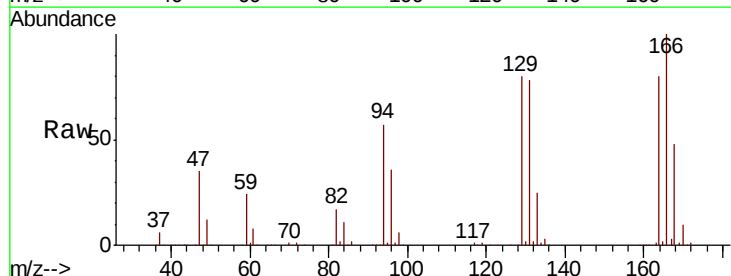


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

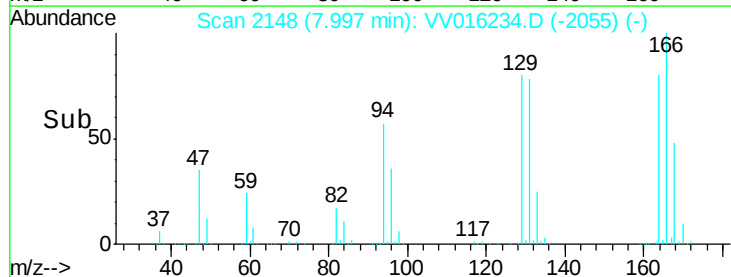
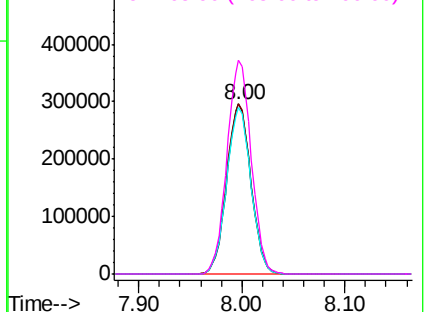


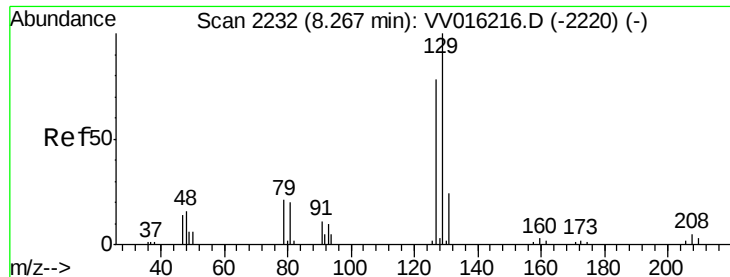
#49
 Tetrachloroethene
 Concen: 103.276 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. 0.00 min
 Lab File: VV016234.D
 Acq: 27 May 2020 17:40

Tgt Ion: 164 Resp: 484082
 Ion Ratio Lower Upper
 164 100
 129 100.4 70.7 131.3
 131 97.7 66.6 123.8
 166 125.7 86.9 161.5



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

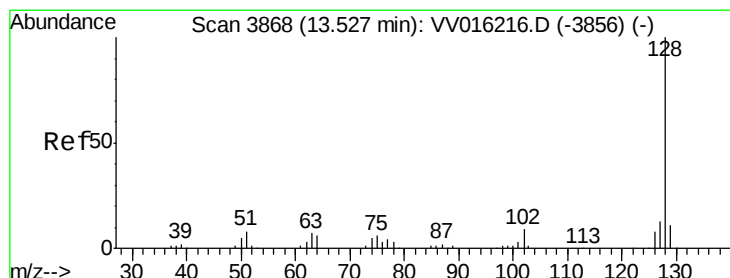
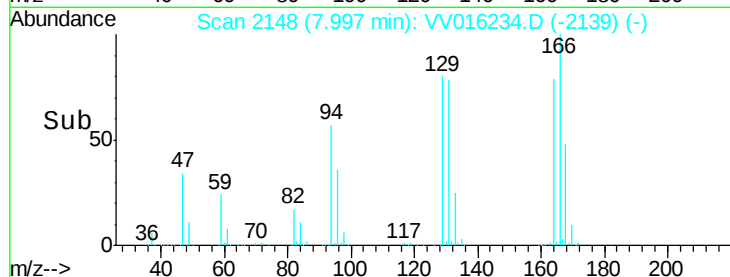
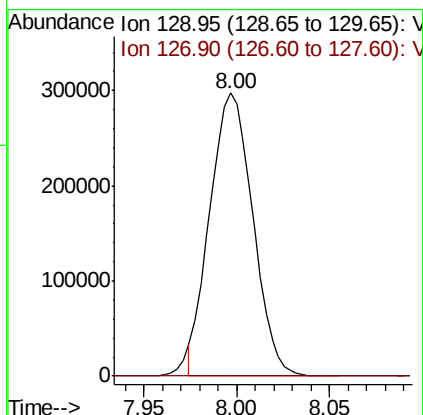
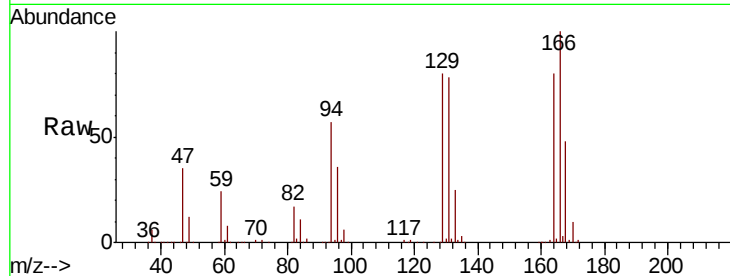




#51
 Dibromochloromethane
 Concen: 111.113 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. -0.27 min
 Lab File: VV016234.D
 Acq: 27 May 2020 17:40

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:129 Resp: 475794
 Ion Ratio Lower Upper
 129 100
 127 0.0 55.2 102.4#



#70
 Naphthalene
 Concen: 0.119 ug/L
 RT: 13.53 min Scan# 3869
 Delta R.T. 0.00 min
 Lab File: VV016234.D
 Acq: 27 May 2020 17:40

Tgt Ion:128 Resp: 1953
 Ion Ratio Lower Upper
 128 100
 129 5.4 8.6 13.0#
 127 12.4 10.6 15.8

