

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081420\
 Data File : VV018008.D
 Acq On : 14 Aug 2020 19:46
 Operator : SY/MD
 Sample : L3665-16
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 F4L36

Quant Time: Aug 17 01:39:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM081120WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 17 01:31:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	240758	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	236966	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	112814	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	99511	54.17	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	108.34%
7) Chloroethane-d5	1.58	69	77414	51.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	103.02%
11) 1,1-Dichloroethene-d2	2.12	63	140640	40.03	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.06%
21) 2-Butanone-d5	3.92	46	136872	113.76	ug/L	0.01
Spiked Amount	100.000	Range	40 - 130	Recovery	=	113.76%
24) Chloroform-d	4.38	84	164347	49.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.30%
26) 1,2-Dichloroethane-d4	5.06	65	115336	53.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.20%
32) Benzene-d6	5.07	84	337536	51.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.36%
36) 1,2-Dichloropropane-d6	6.09	67	108449	50.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.58%
41) Toluene-d8	7.34	98	298742	50.87	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.74%
43) trans-1,3-Dichloropropene-	7.64	79	48616	50.20	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.40%
47) 2-Hexanone-d5	8.11	63	62397	91.07	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.07%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	135797	48.84	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.68%
64) 1,2-Dichlorobenzene-d4	11.65	152	121094	54.54	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.08%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	971854	454.290	ug/L	99
8) Chloroethane	1.60	64	7253	5.312	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1215	0.712	ug/L #	20
12) 1,1-Dichloroethene	2.13	96	10037	6.215	ug/L #	1
17) trans-1,2-Dichloroethene	2.78	96	192293	115.831	ug/L	100
18) Methyl tert-butyl Ether	2.78	73	11340	2.065	ug/L #	1
20) cis-1,2-Dichloroethene	3.94	96	13439710	7366.968	ug/L	90
25) Chloroform	4.40	83	3499	1.028	ug/L #	73
27) 1,2-Dichloroethane	5.07	62	2269	0.837	ug/L	96
29) Cyclohexane	4.70	56	46800	16.364	ug/L	98
33) Benzene	5.13	78	49609	6.767	ug/L	100
34) Trichloroethene	5.94	95	207578	107.116	ug/L	98
35) Methylcyclohexane	6.15	83	21827	7.575	ug/L	90
37) 1,2-Dichloropropane	6.09	63	12314	6.159	ug/L #	87
39) cis-1,3-Dichloropropene	7.01	75	2911	1.027	ug/L #	66
46) Tetrachloroethene	8.00	164	1533	1.079	ug/L	91
49) Dibromochloromethane	8.00	129	1376	0.761	ug/L #	10

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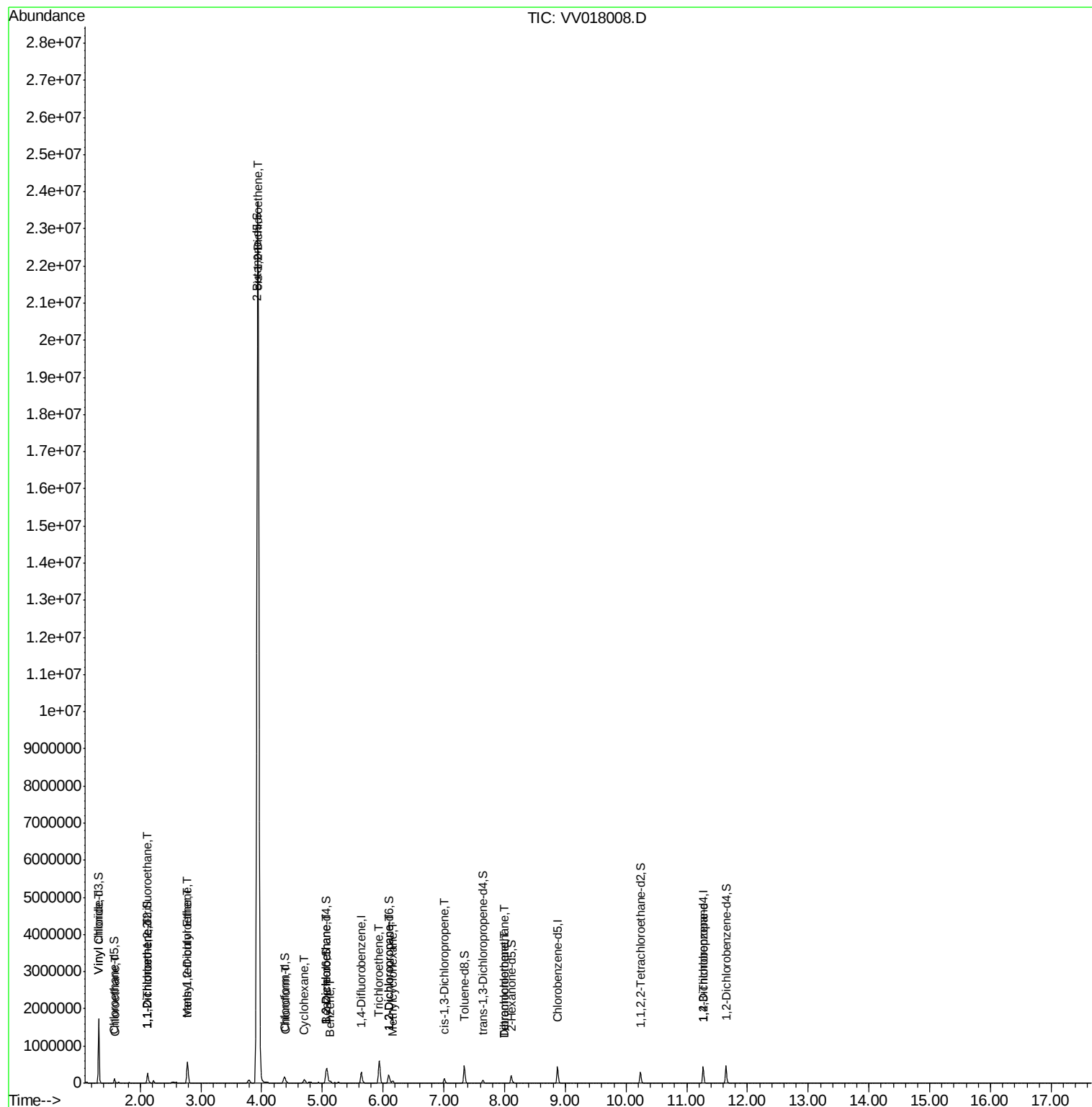
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.27	75	13788	5.584	ug/L	93

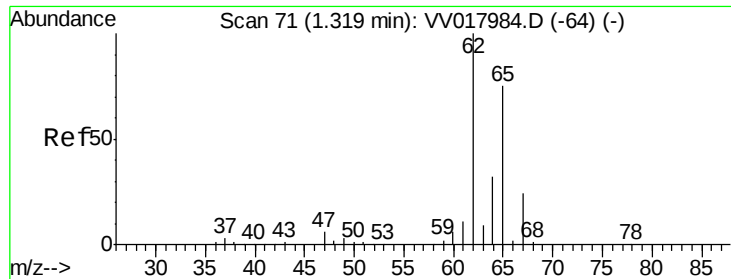
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 454.290 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV018008.D

Acq: 14 Aug 2020 19:46

Instrument :

MSVOA_V

ClientSampled :

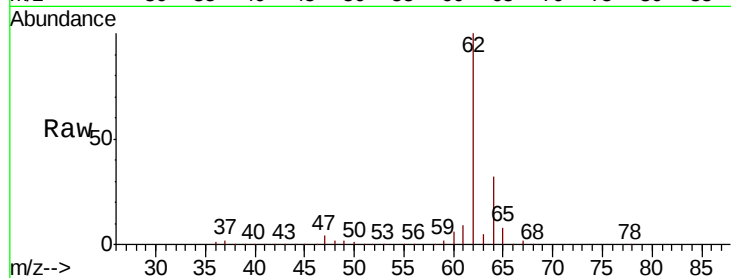
F4L36

Tot Ion: 62 Resp: 971854

Ion Ratio Lower Upper

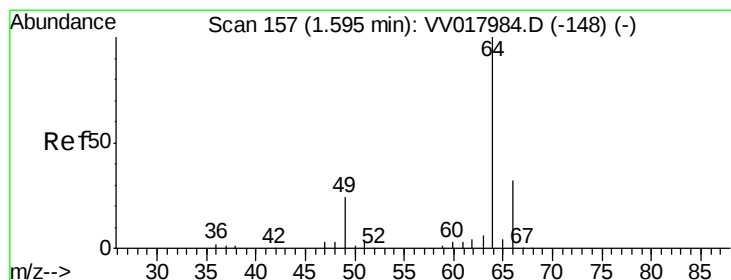
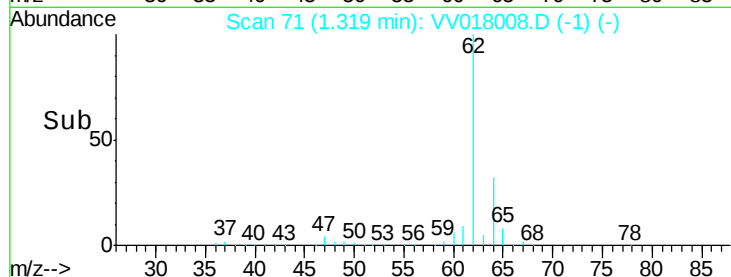
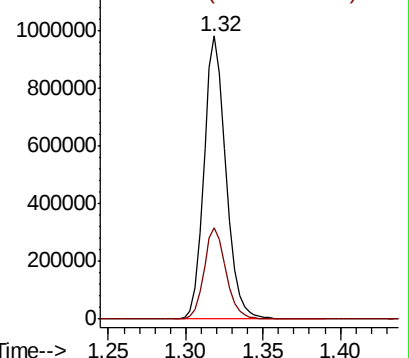
62 100

64 32.3 22.4 41.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#8

Chloroethane

Concen: 5.312 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV018008.D

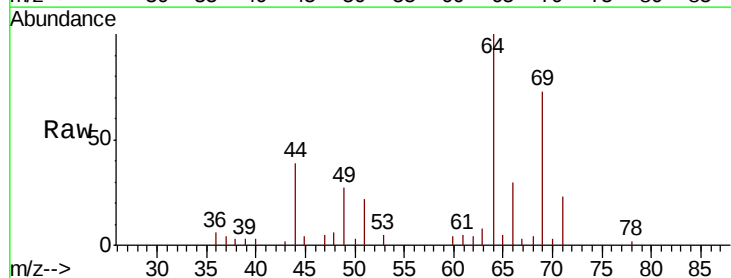
Acq: 14 Aug 2020 19:46

Tgt Ion: 64 Resp: 7253

Ion Ratio Lower Upper

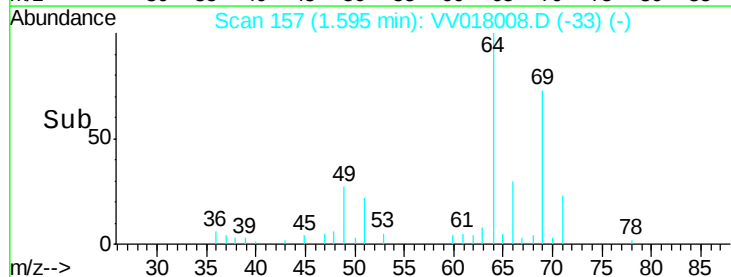
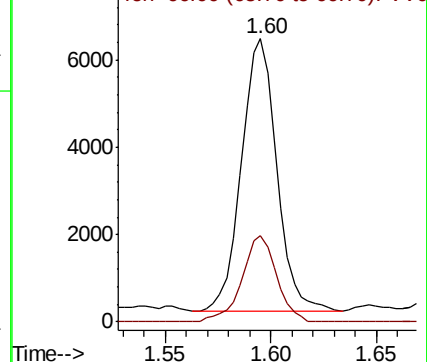
64 100

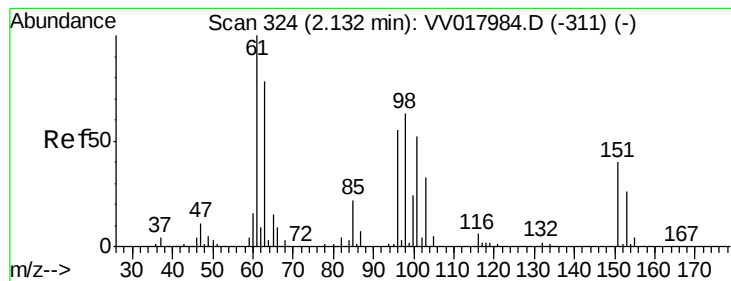
66 30.5 22.3 41.3



Abundance Ion 64.00 (63.70 to 64.70): VV0

Ion 66.00 (65.70 to 66.70): VV0





#10

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

Concen: 0.712 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV018008.D

Acq: 14 Aug 2020 19:46

Instrument :

MSVOA_V

ClientSampleId :

F4L36

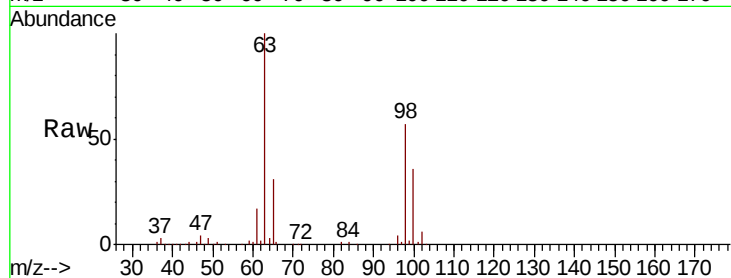
Tot Ion:101 Resp: 1215

Ion Ratio Lower Upper

101 100

85 0.0 34.9 52.3#

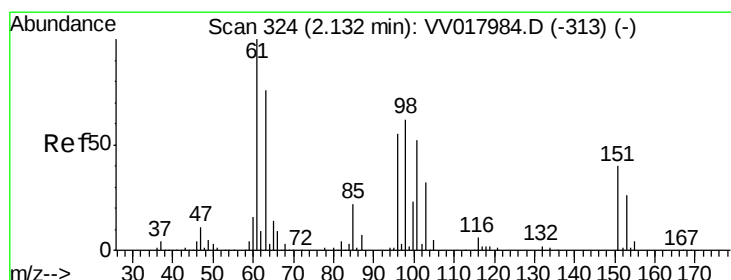
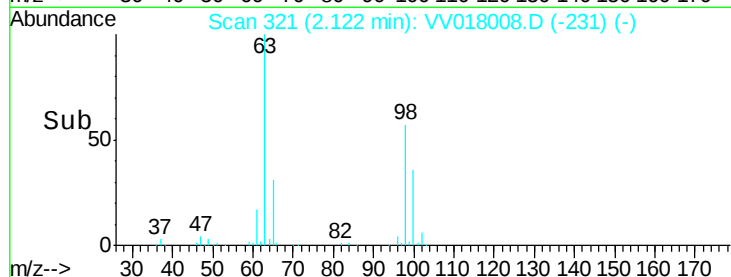
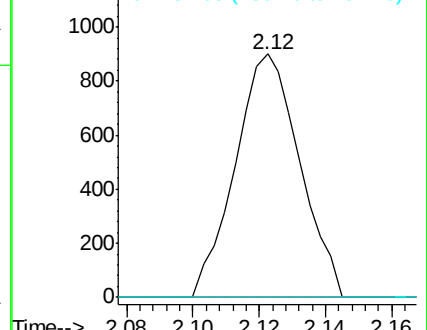
151 0.0 59.1 88.7#



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



#12

1,1-Dichloroethene

Concen: 6.215 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV018008.D

Acq: 14 Aug 2020 19:46

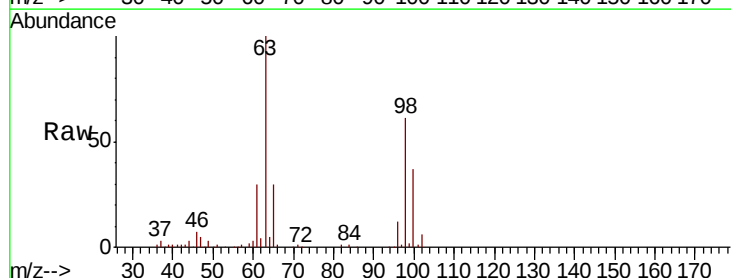
Tgt Ion: 96 Resp: 10037

Ion Ratio Lower Upper

96 100

61 257.7 127.1 236.0#

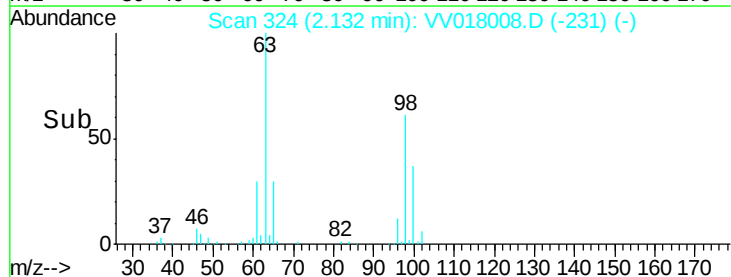
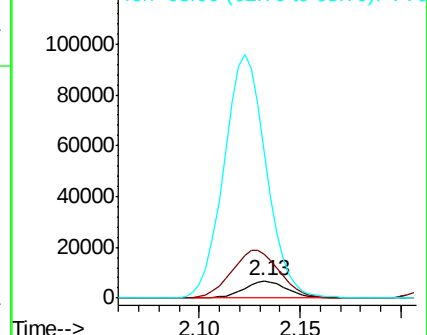
63 853.5 95.2 176.8#

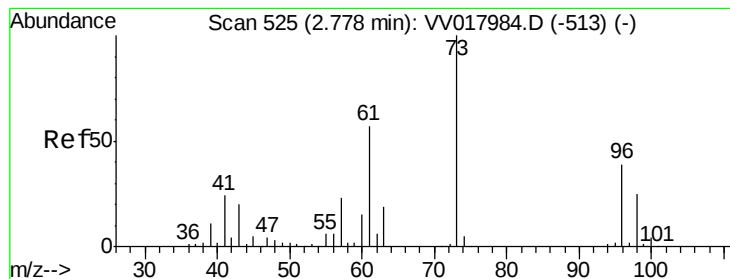


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#17

trans-1,2-Dichloroethene

Concen: 115.831 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV018008.D

Acq: 14 Aug 2020 19:46

Instrument :

MSVOA_V

ClientSampled :

F4L36

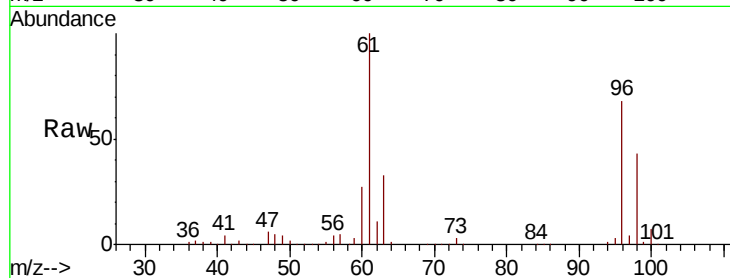
Tot Ion: 96 Resp: 192293

Ion Ratio Lower Upper

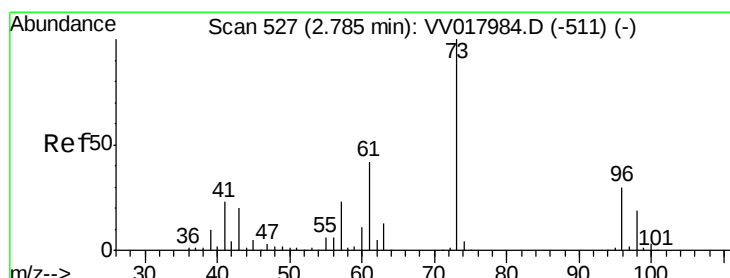
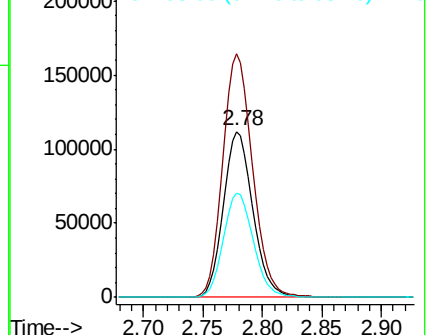
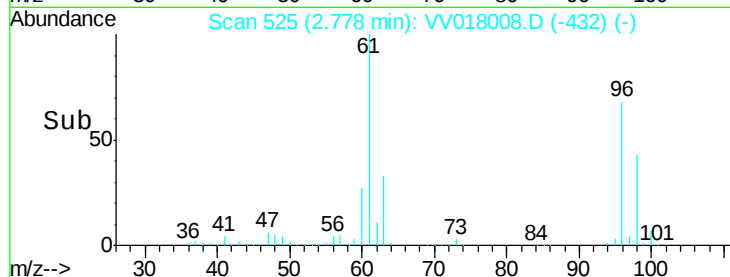
96 100

61 146.7 102.4 190.2

98 63.1 44.4 82.5



Abundance Ion 96.00 (95.70 to 96.70): VV018008.D (-432) (-)



#18

Methyl tert-butyl Ether

Concen: 2.065 ug/L

RT: 2.78 min Scan# 527

Delta R.T. -0.00 min

Lab File: VV018008.D

Acq: 14 Aug 2020 19:46

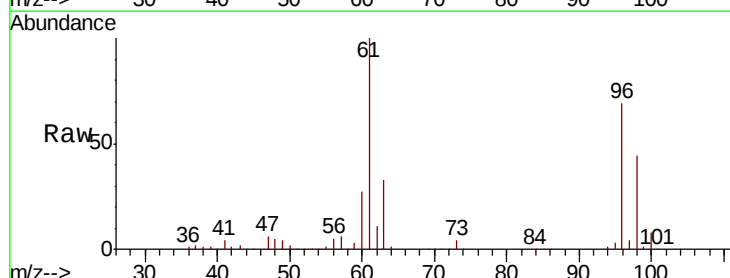
Tgt Ion: 73 Resp: 11340

Ion Ratio Lower Upper

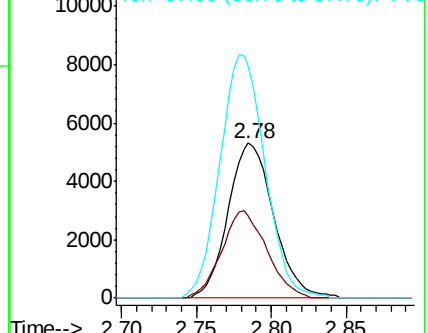
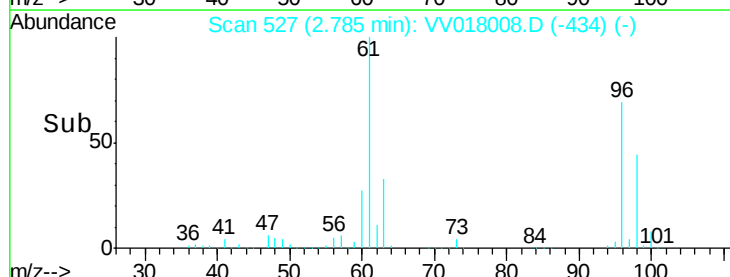
73 100

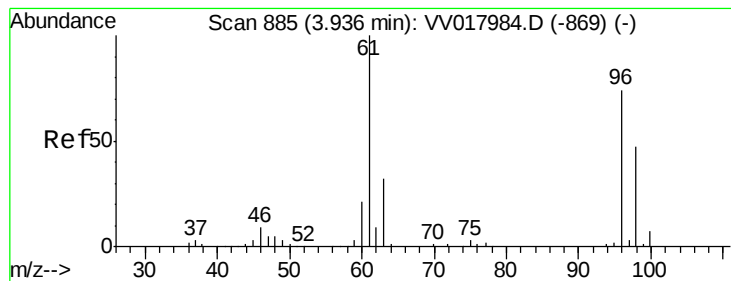
43 55.7 15.9 23.9#

57 154.5 18.1 27.1#



Abundance Ion 73.00 (72.70 to 73.70): VV018008.D (-434) (-)



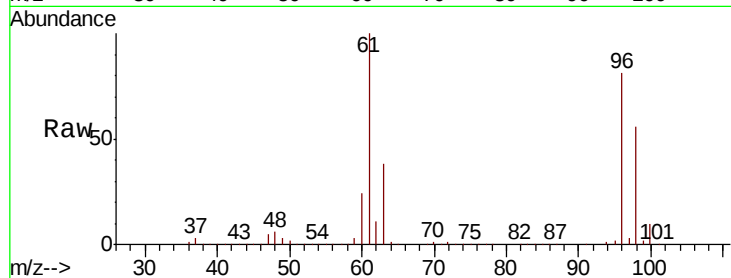


#20

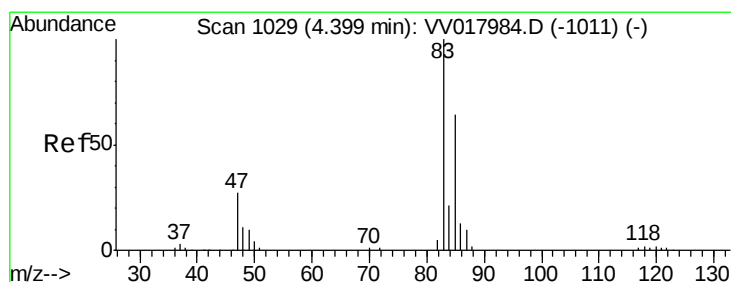
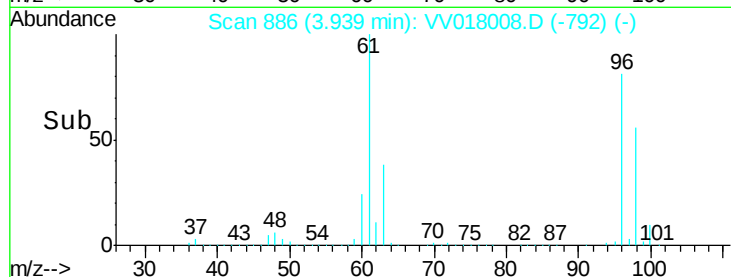
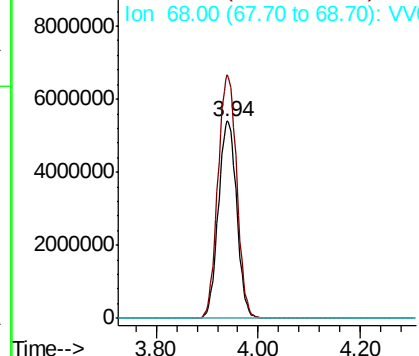
cis-1,2-Dichloroethene
 Concen: 7366.968 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV018008.D
 Acq: 14 Aug 2020 19:46

Instrument :
 MSVOA_V
 ClientSampleId :
 F4L36

Tot Ion: 96 Resp:13439710
 Ion Ratio Lower Upper
 96 100
 61 123.4 95.0 176.4
 68 0.0 0.0 0.0



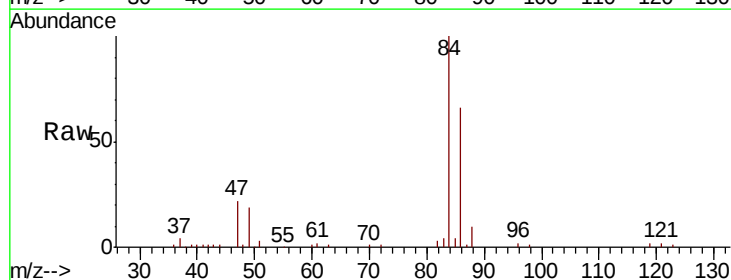
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 68.00 (67.70 to 68.70): VV0



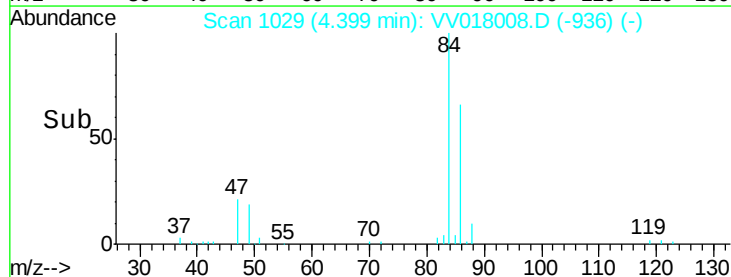
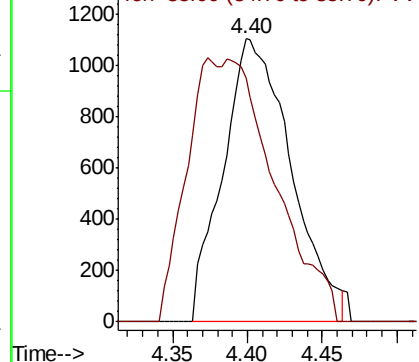
#25

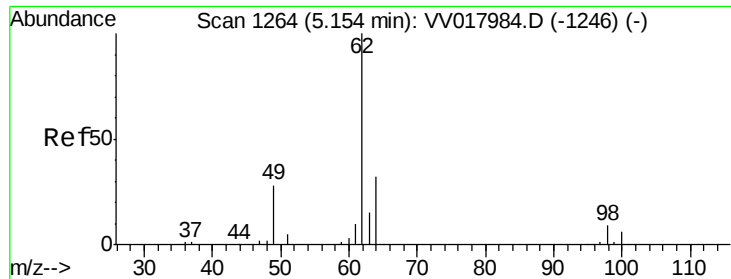
Chloroform
 Concen: 1.028 ug/L
 RT: 4.40 min Scan# 1029
 Delta R.T. -0.00 min
 Lab File: VV018008.D
 Acq: 14 Aug 2020 19:46

Tgt Ion: 83 Resp: 3499
 Ion Ratio Lower Upper
 83 100
 85 86.0 45.5 84.5#



Abundance Ion 83.00 (82.70 to 83.70): VV0
 Ion 85.00 (84.70 to 85.70): VV0

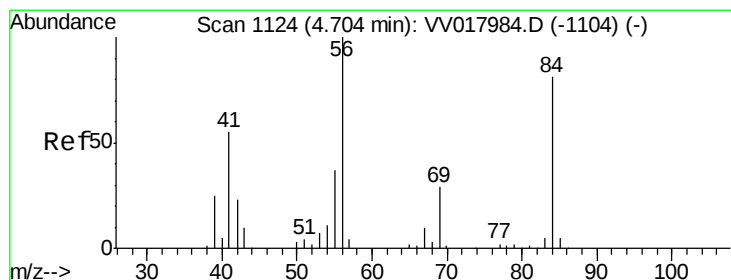
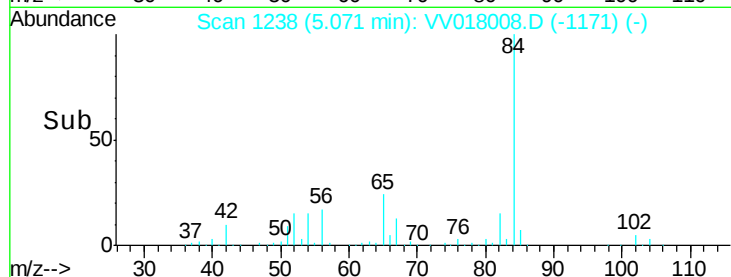
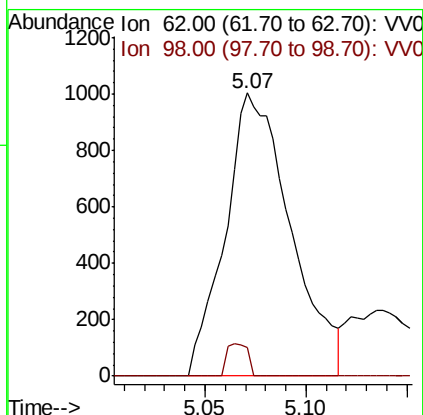
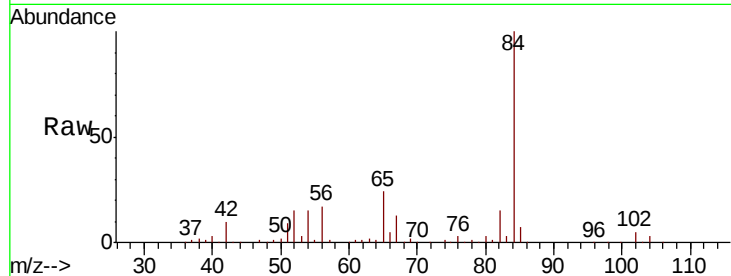




#27
 1,2-Dichloroethane
 Concen: 0.837 ug/L
 RT: 5.07 min Scan# 1238
 Delta R.T. -0.08 min
 Lab File: VV018008.D
 Acq: 14 Aug 2020 19:46

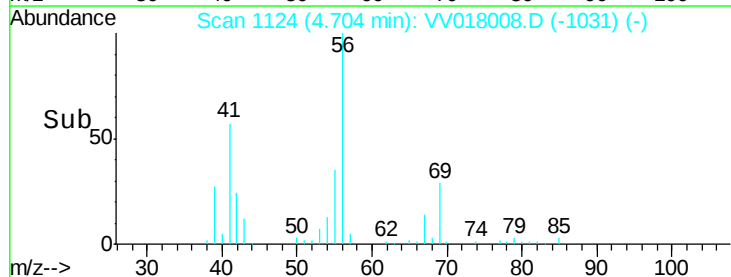
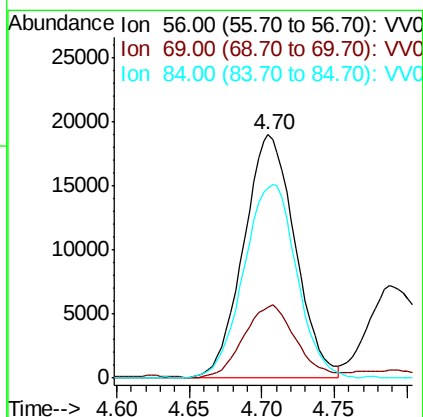
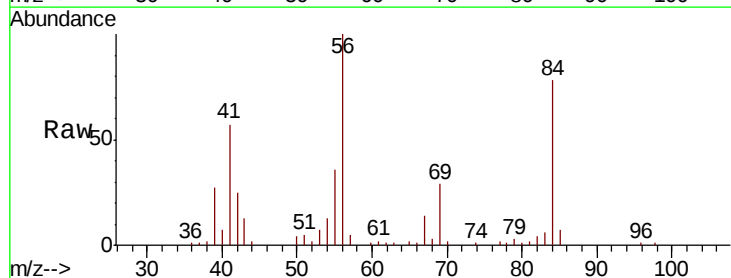
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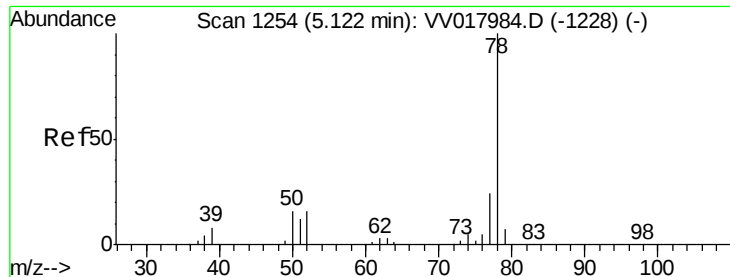
Tot Ion: 62 Resp: 2269
 Ion Ratio Lower Upper
 62 100
 98 10.3 7.1 10.7



#29
 Cyclohexane
 Concen: 16.364 ug/L
 RT: 4.70 min Scan# 1124
 Delta R.T. 0.00 min
 Lab File: VV018008.D
 Acq: 14 Aug 2020 19:46

Tgt Ion: 56 Resp: 46800
 Ion Ratio Lower Upper
 56 100
 69 30.5 23.8 35.8
 84 81.8 66.8 100.2





#33

Benzene

Concen: 6.767 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VV018008.D

Acq: 14 Aug 2020 19:46

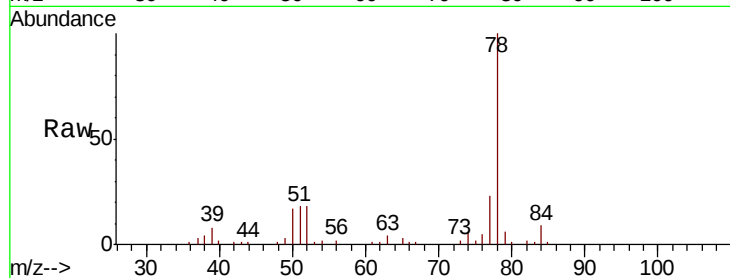
Instrument :

MSVOA_V

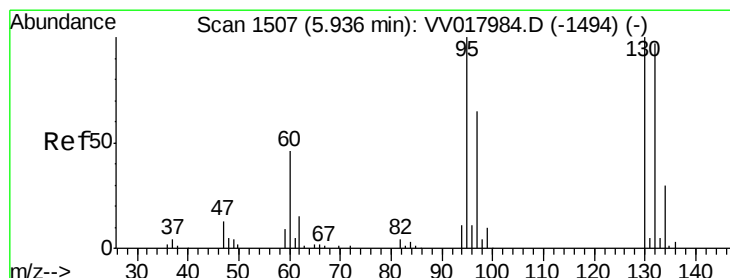
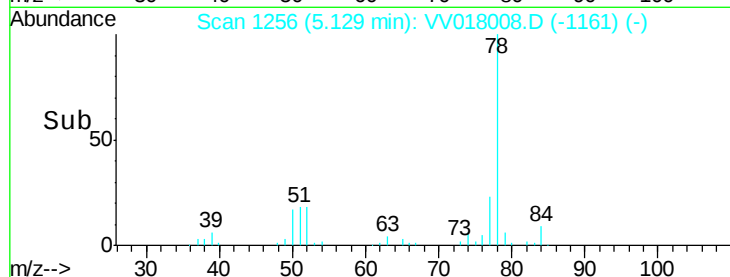
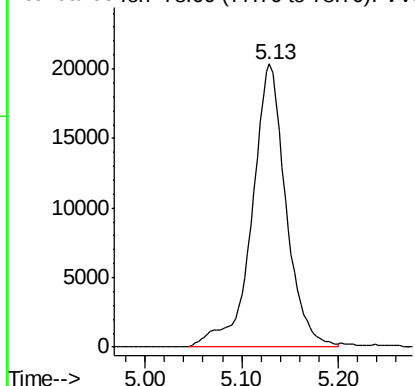
ClientSampleId :

F4L36

Tgt Ion: 78 Resp: 49609



Abundance Ion 78.00 (77.70 to 78.70): VV0



#34

Trichloroethene

Concen: 107.116 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV018008.D

Acq: 14 Aug 2020 19:46

Tgt Ion: 95 Resp: 207578

Ion	Ratio	Lower	Upper
95	100		
97	64.2	46.0	85.4
132	96.0	65.8	122.2
130	100.2	69.2	128.6

Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

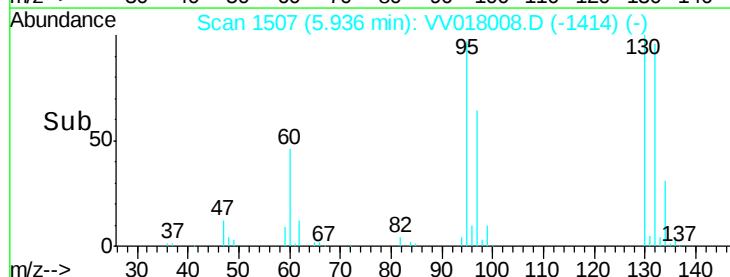
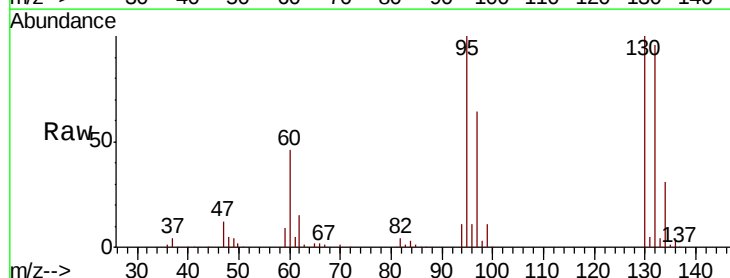
Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

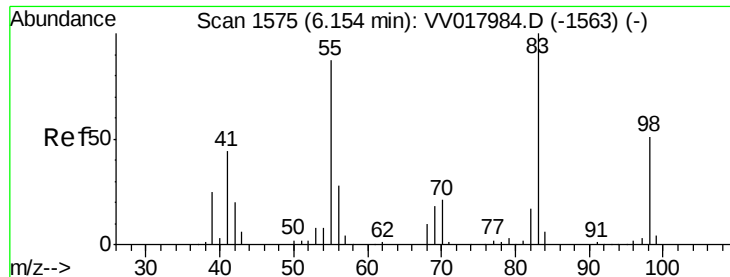
Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

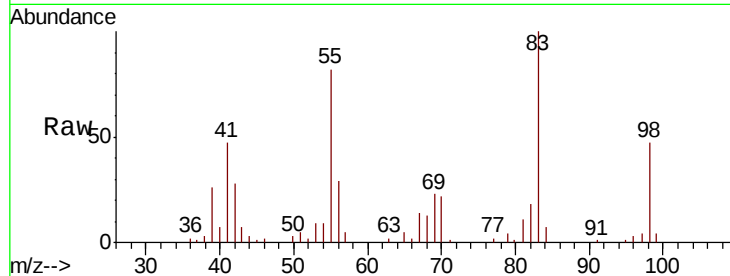
Ion 130.00 (129.70 to 130.70): VV0



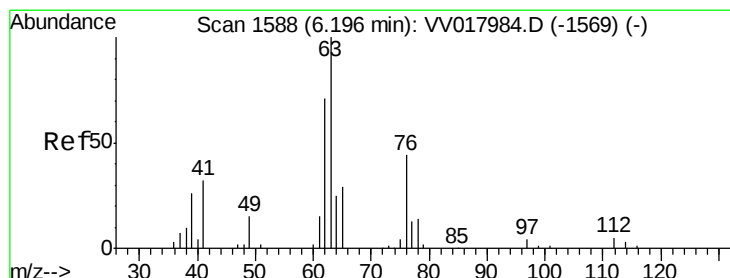
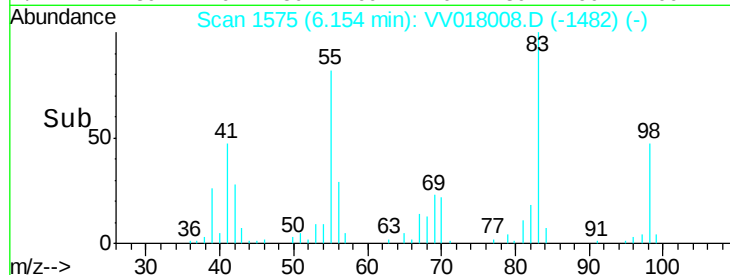
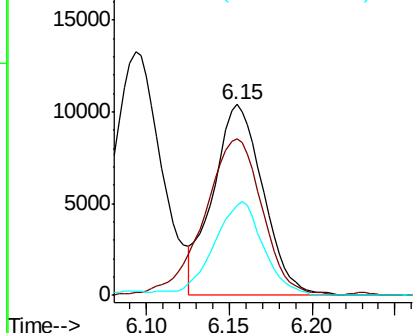
#35
Methvlcvclohexane
Concen: 7.575 ug/L
RT: 6.15 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VV018008.D
Acq: 14 Aug 2020 19:46

Instrument :
MSVOA_V
ClientSampleId :
F4L36

Tot Ion: 83 Resp: 21827
Ion Ratio Lower Upper
83 100
55 95.0 64.9 97.3
98 48.1 38.7 58.1

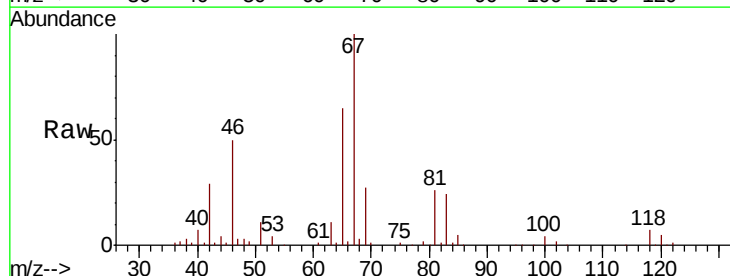


Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 55.00 (54.70 to 55.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

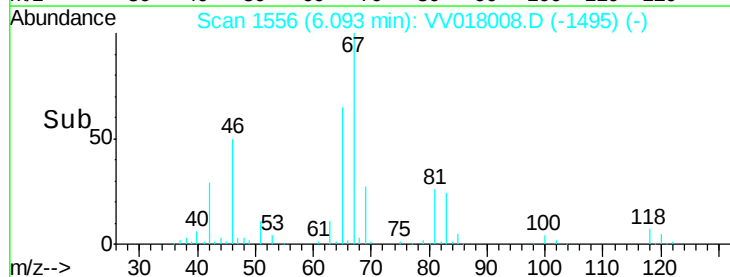
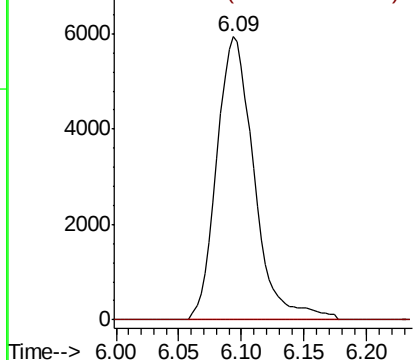


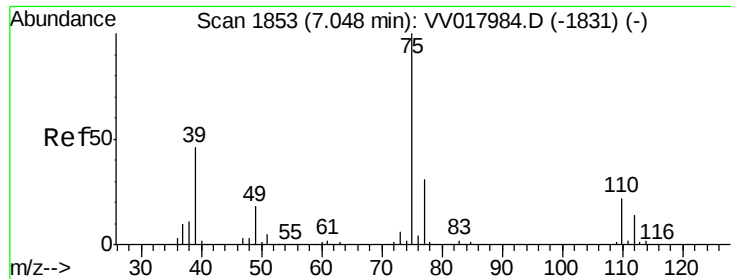
#37
1,2-Dichloropropane
Concen: 6.159 ug/L
RT: 6.09 min Scan# 1556
Delta R.T. -0.10 min
Lab File: VV018008.D
Acq: 14 Aug 2020 19:46

Tgt Ion: 63 Resp: 12314
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 112.00 (111.70 to 112.70): V

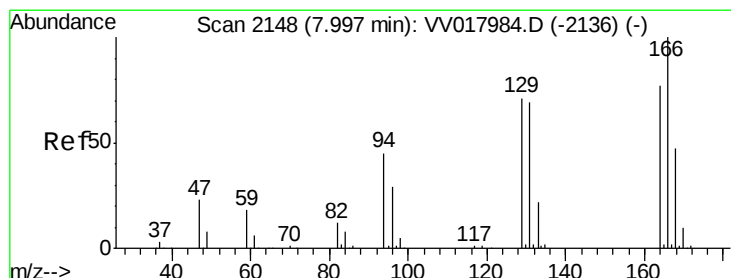
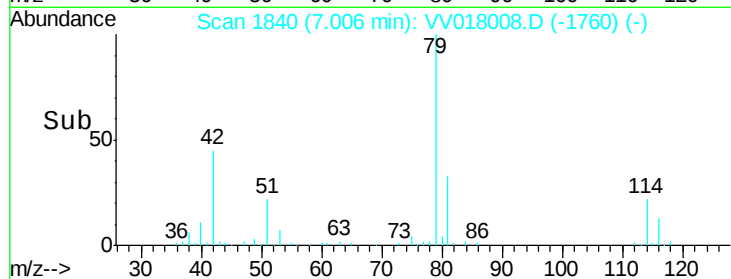
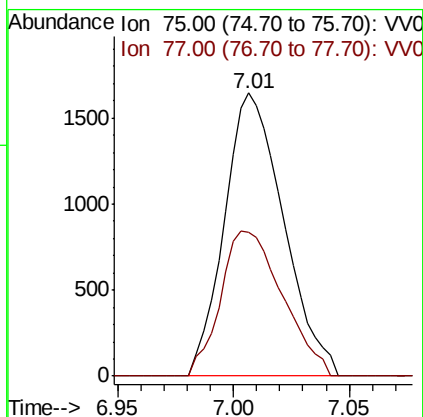
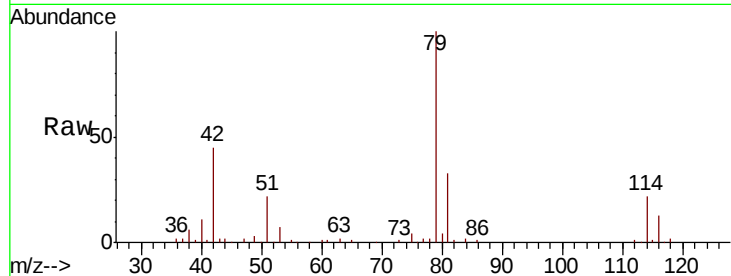




#39
 cis-1,3-Dichloropropene
 Concen: 1.027 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.04 min
 Lab File: VV018008.D
 Acq: 14 Aug 2020 19:46

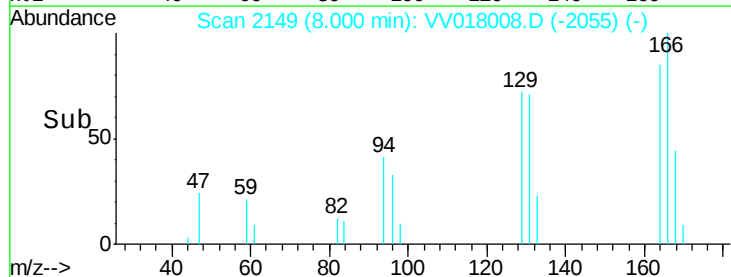
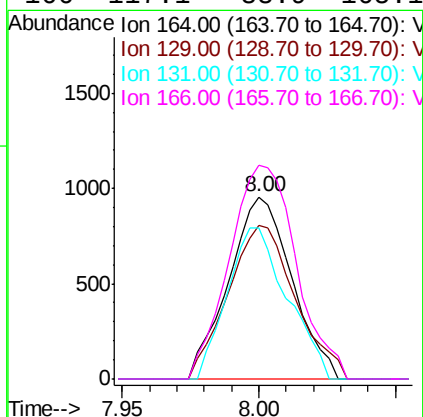
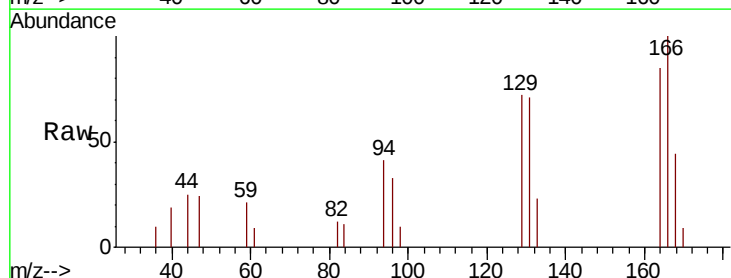
Instrument :
 MSVOA_V
 ClientSampleId :
 F4L36

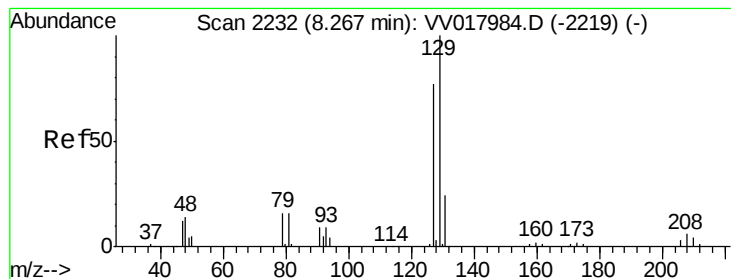
Tot Ion: 75 Resp: 2911
 Ion Ratio Lower Upper
 75 100
 77 50.8 22.3 41.5#



#46
 Tetrachloroethene
 Concen: 1.079 ug/L
 RT: 8.00 min Scan# 2149
 Delta R.T. 0.00 min
 Lab File: VV018008.D
 Acq: 14 Aug 2020 19:46

Tgt Ion: 164 Resp: 1533
 Ion Ratio Lower Upper
 164 100
 129 84.5 64.8 120.3
 131 83.0 64.5 119.9
 166 117.1 88.9 165.1





#49

Dibromochloromethane

Concen: 0.761 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. -0.27 min

Lab File: VV018008.D

Acq: 14 Aug 2020 19:46

Instrument :

MSVOA_V

ClientSampleId :

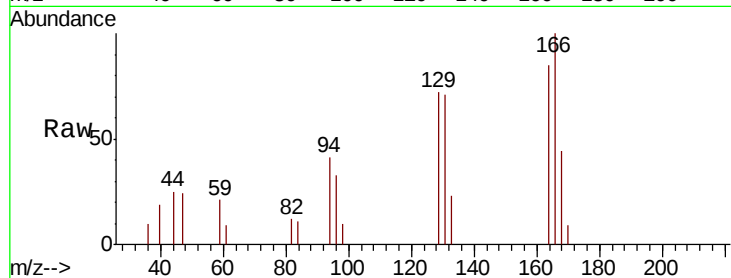
F4L36

Tot Ion:129 Resp: 1376

Ion Ratio Lower Upper

129 100

127 0.0 54.9 101.9#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.00

800

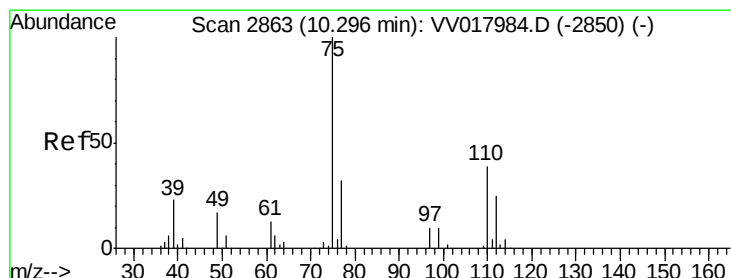
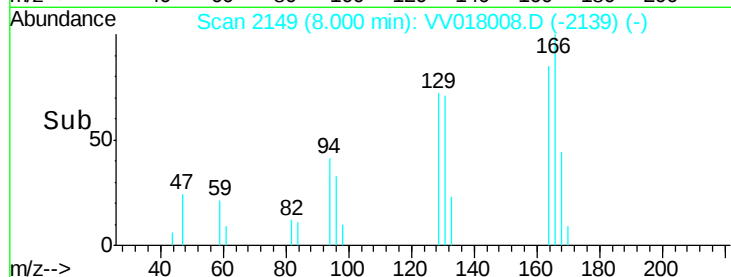
600

400

200

0

Time-->



#59

1,2,3-Trichloropropane

Concen: 5.584 ug/L

RT: 11.27 min Scan# 3166

Delta R.T. 0.97 min

Lab File: VV018008.D

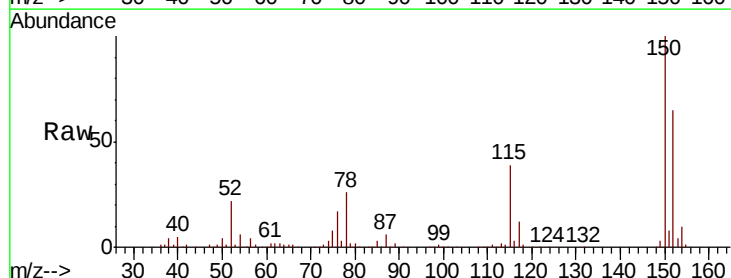
Acq: 14 Aug 2020 19:46

Tgt Ion: 75 Resp: 13788

Ion Ratio Lower Upper

75 100

77 36.1 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

11.27

10000

8000

6000

4000

2000

0

Time-->

