

Data File : VV011916.D
Acq On : 17 Jul 2019 17:24
Operator : SY/MD
Sample : K3823-06
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
A52K4

Quant Time: Jul 18 02:21:53 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR071719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Jul 18 02:17:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	149675	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	147076	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	63721	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	54147	4.93	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.60%
7) Chloroethane-d5	1.58	69	47157	5.18	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.60%
11) 1,1-Dichloroethene-d2	2.13	63	70060	3.90	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.00%
20) 2-Butanone-d5	3.94	46	146394	52.73	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.46%
24) Chloroform-d	4.40	84	108505	4.92	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.40%
26) 1,2-Dichloroethane-d4	5.08	65	58442	5.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%
32) Benzene-d6	5.10	84	218901	5.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.20%
36) 1,2-Dichloropropane-d6	6.12	67	68401	5.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.40%
41) Toluene-d8	7.36	98	184203	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%
43) trans-1,3-Dichloropropene-	7.66	79	22894	4.72	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.40%
46) 2-Hexanone-d5	8.13	63	88544	45.34	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.68%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	38316	4.65	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.00%
64) 1,2-Dichlorobenzene-d4	11.67	152	67702	5.32	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.40%

Target Compounds

					Qvalue
3) Chloromethane	1.25	50	1529	0.103 ug/L	94
5) Vinyl chloride	1.32	62	18735	1.311 ug/L	93
8) Chloroethane	1.60	64	6141	0.756 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	1413	0.163 ug/L #	70
12) 1,1-Dichloroethene	2.14	96	16757	2.100 ug/L #	49
13) Acetone	2.19	43	5756	4.085 ug/L	99
14) Carbon disulfide	2.32	76	1975	0.087 ug/L #	87
18) trans-1,2-Dichloroethene	2.79	96	1091	0.097 ug/L	81
19) 1,1-Dichloroethane	3.23	63	354713	16.773 ug/L	100
22) cis-1,2-Dichloroethene	3.96	96	57571	4.986 ug/L	99
25) Chloroform	4.42	83	4047	0.177 ug/L	91
29) 1,1,1-Trichloroethane	4.66	97	678915	37.560 ug/L	99
31) Carbon tetrachloride	4.66	117	83507	5.290 ug/L	99
34) Trichloroethene	5.96	95	12908	1.009 ug/L	95
42) Toluene	7.43	91	4532	0.094 ug/L	83
47) Tetrachloroethene	8.02	164	5773	0.613 ug/L	89
48) 2-Hexanone	8.18	43	12465	2.580 ug/L #	88

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Response via : Initial Calibration

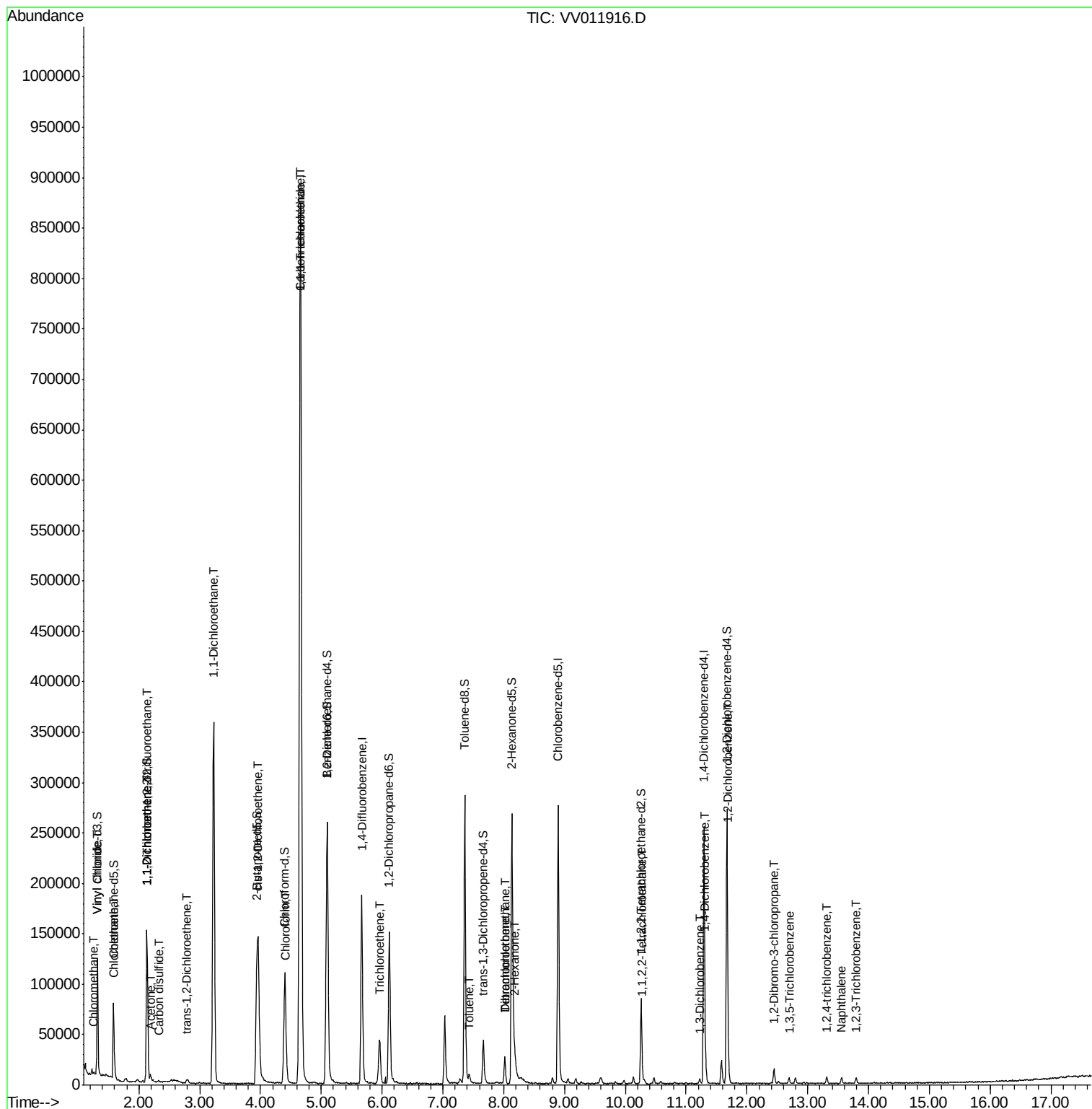
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.02	129	5513	0.669	ug/L #	11
58) 1,1,2,2-Tetrachloroethane	10.28	83	765	0.106	ug/L #	73
62) 1,3-Dichlorobenzene	11.22	146	1863	0.091	ug/L	95
63) 1,4-Dichlorobenzene	11.32	146	3984	0.189	ug/L	87
65) 1,2-Dichlorobenzene	11.69	146	5890	0.307	ug/L	94
66) 1,2-Dibromo-3-chloropropan	12.44	75	2400	2.200	ug/L #	3
67) 1,3,5-Trichlorobenzene	12.69	180	1795	0.111	ug/L	91
68) 1,2,4-trichlorobenzene	13.31	180	2060	0.162	ug/L	94
69) Naphthalene	13.56	128	4732	0.243	ug/L #	92
70) 1,2,3-Trichlorobenzene	13.79	180	1843	0.161	ug/L	91

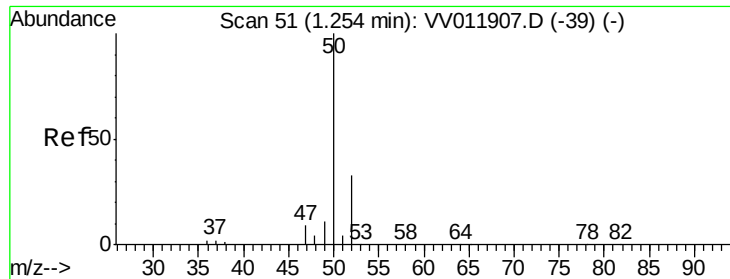
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.103 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV011916.D

Acq: 17 Jul 2019 17:24

Instrument :

MSVOA_V

ClientSampled :

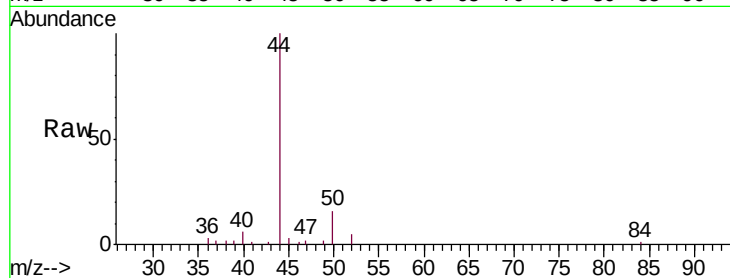
A52K4

Tgt Ion: 50 Resp: 1529

Ion Ratio Lower Upper

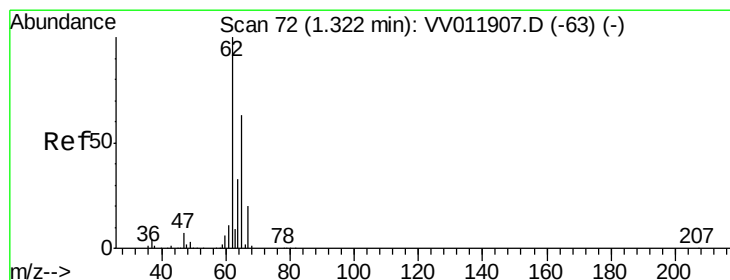
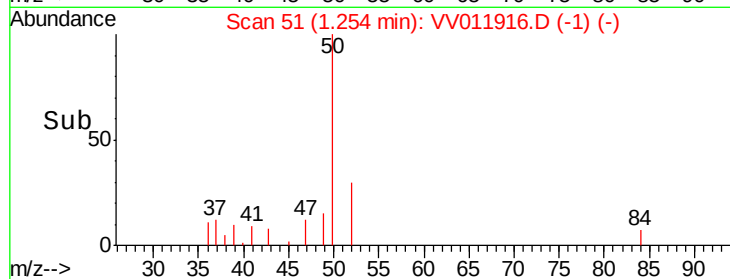
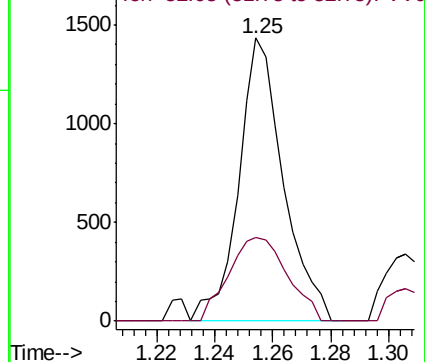
50 100

52 29.7 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#5

Vinyl chloride

Concen: 1.311 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV011916.D

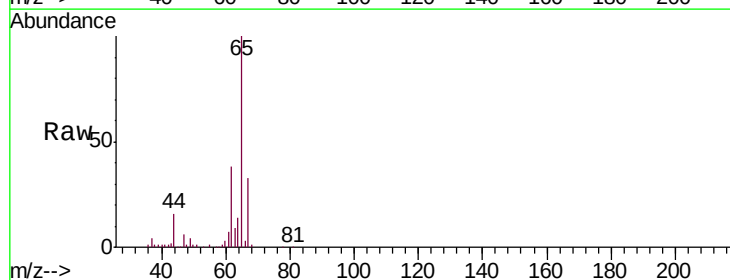
Acq: 17 Jul 2019 17:24

Tgt Ion: 62 Resp: 18735

Ion Ratio Lower Upper

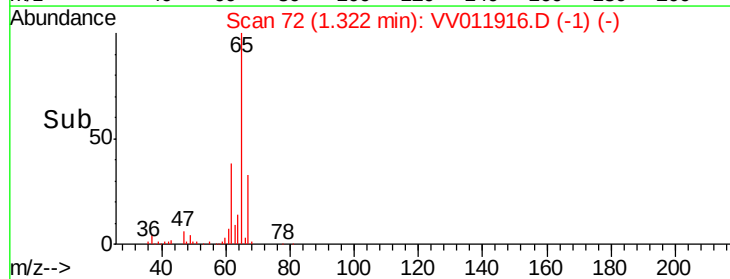
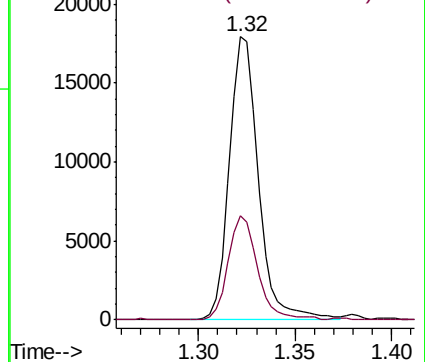
62 100

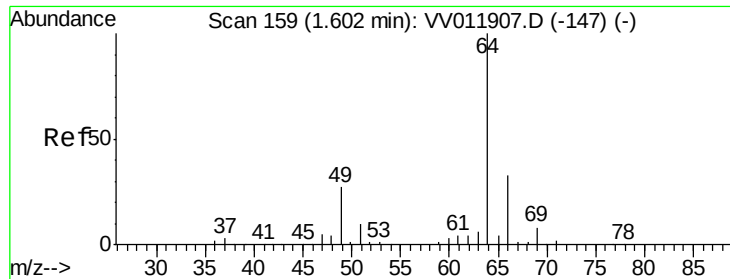
64 36.9 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0





#8

Chloroethane

Concen: 0.756 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV011916.D

Acq: 17 Jul 2019 17:24

Instrument :

MSVOA_V

ClientSampled :

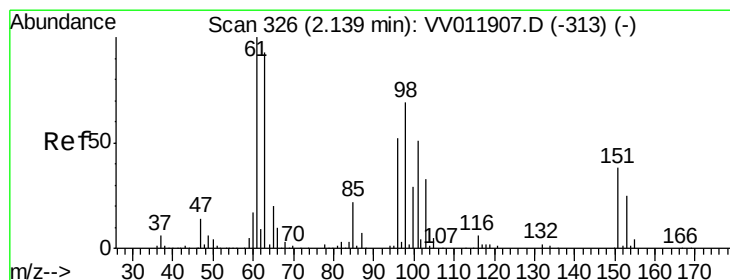
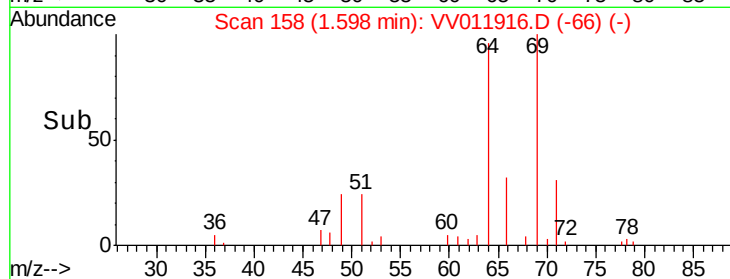
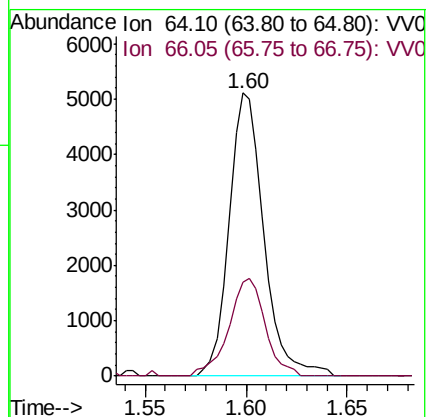
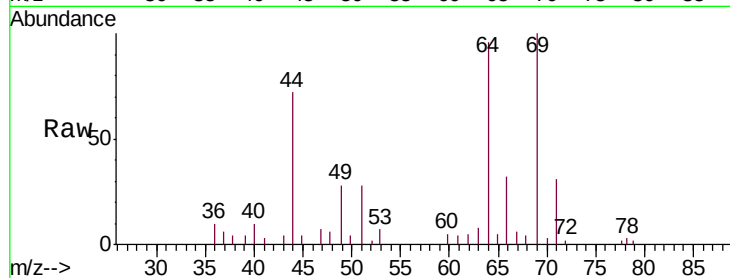
A52K4

Tgt Ion: 64 Resp: 6141

Ion Ratio Lower Upper

64 100

66 33.4 23.2 43.2



#10

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

Concen: 0.163 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV011916.D

Acq: 17 Jul 2019 17:24

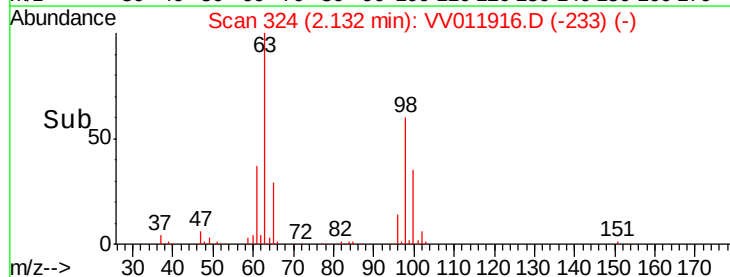
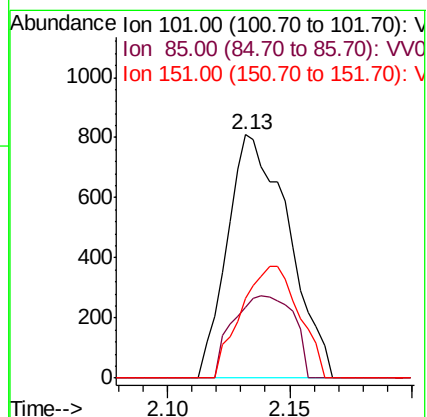
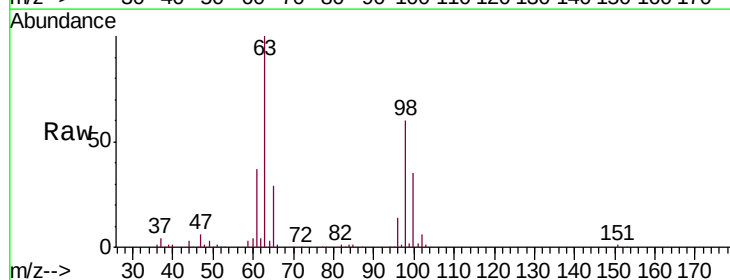
Tgt Ion: 101 Resp: 1413

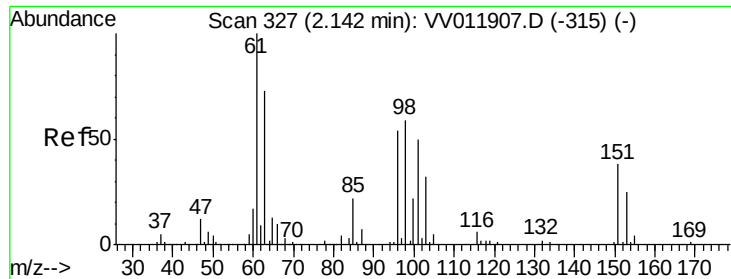
Ion Ratio Lower Upper

101 100

85 33.8 34.7 52.1#

151 43.2 61.5 92.3#

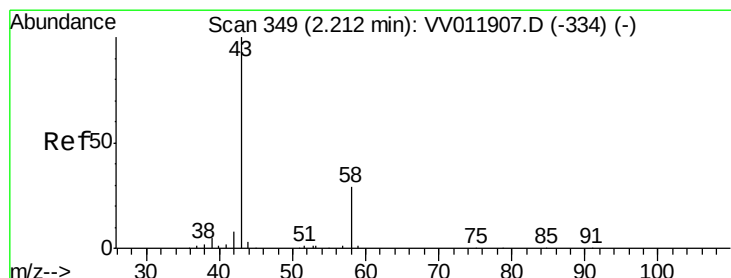
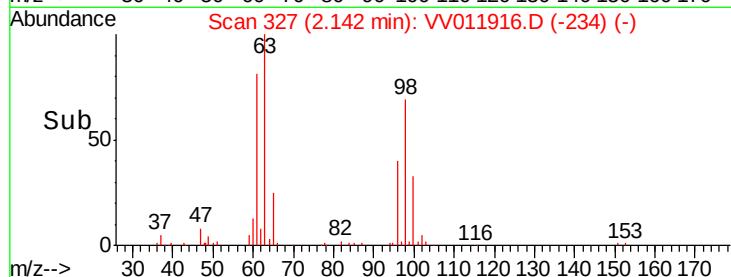
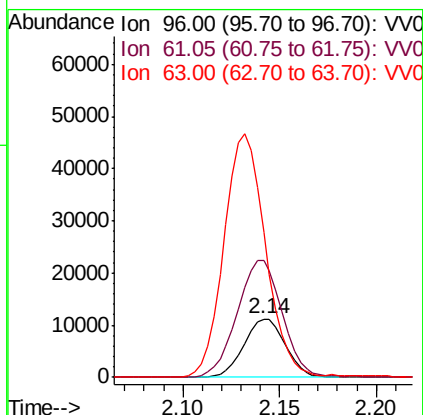
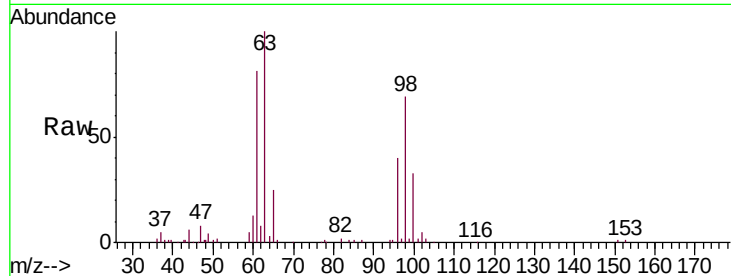




#12
 1,1-Dichloroethene
 Concen: 2.100 ug/L
 RT: 2.14 min Scan# 327
 Delta R.T. -0.00 min
 Lab File: VV011916.D
 Acq: 17 Jul 2019 17:24

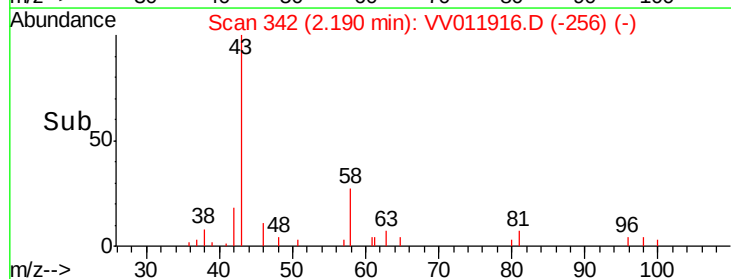
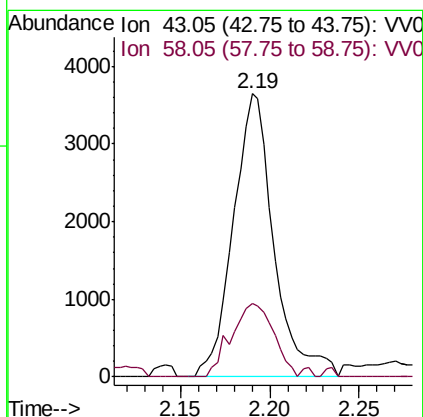
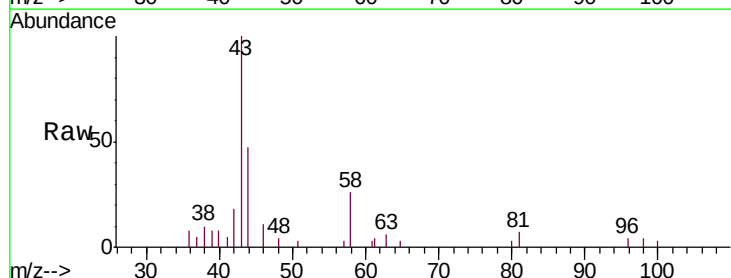
Instrument :
 MSVOA_V
 ClientSampleId :
 A52K4

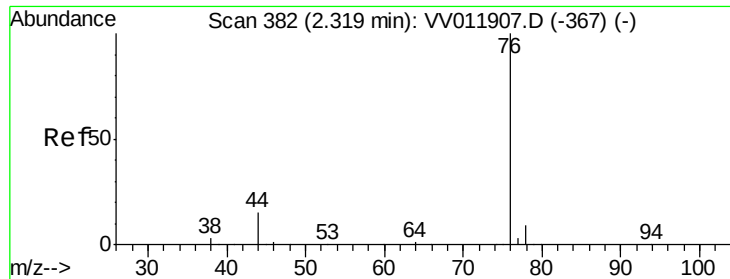
Tgt Ion: 96 Resp: 16757
 Ion Ratio Lower Upper
 96 100
 61 199.5 128.9 239.3
 63 247.8 85.5 158.9#



#13
 Acetone
 Concen: 4.085 ug/L
 RT: 2.19 min Scan# 342
 Delta R.T. -0.02 min
 Lab File: VV011916.D
 Acq: 17 Jul 2019 17:24

Tgt Ion: 43 Resp: 5756
 Ion Ratio Lower Upper
 43 100
 58 27.2 0.0 55.6





#14

Carbon disulfide

Concen: 0.087 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV011916.D

Acq: 17 Jul 2019 17:24

Instrument :

MSVOA_V

ClientSampleId :

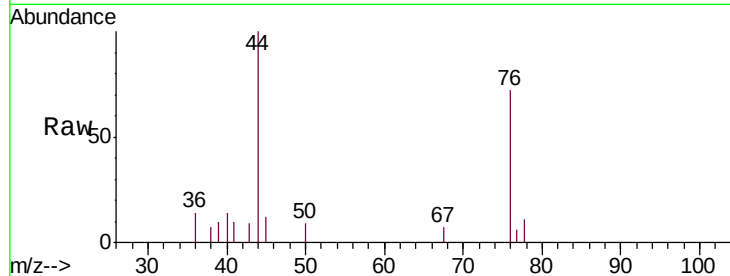
A52K4

Tgt Ion: 76 Resp: 1975

Ion Ratio Lower Upper

76 100

78 14.1 7.4 11.2#



Abundance Ion 76.05 (75.75 to 76.75): VV011907.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VV011907.D (-367) (-)

2.32

1500

1000

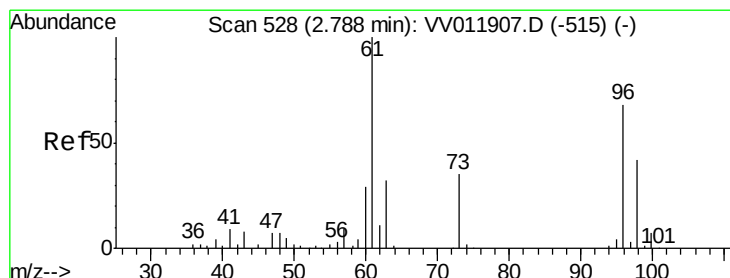
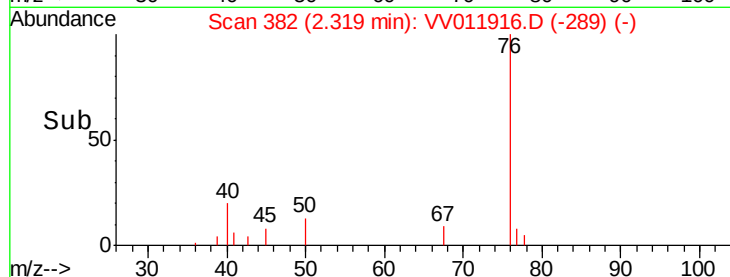
500

0

2.30

2.35

Time-->



#18

trans-1,2-Dichloroethene

Concen: 0.097 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV011916.D

Acq: 17 Jul 2019 17:24

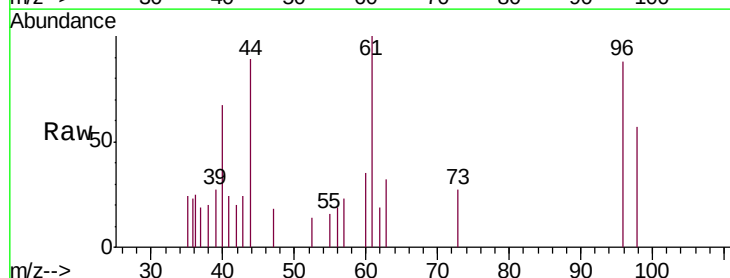
Tgt Ion: 96 Resp: 1091

Ion Ratio Lower Upper

96 100

61 113.2 102.2 189.8

98 64.6 44.4 82.5



Abundance Ion 96.00 (95.70 to 96.70): VV011907.D (-515) (-)

Ion 61.05 (60.75 to 61.75): VV011907.D (-515) (-)

Ion 97.95 (97.65 to 98.65): VV011907.D (-515) (-)

2.79

1000

800

600

400

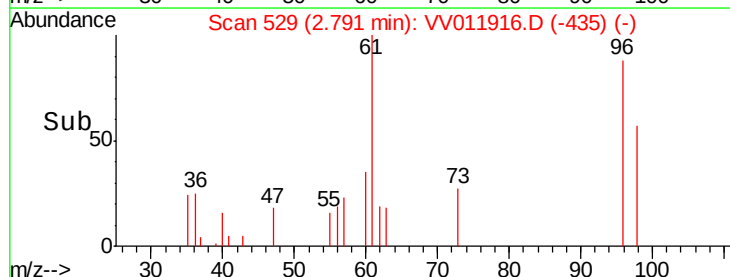
200

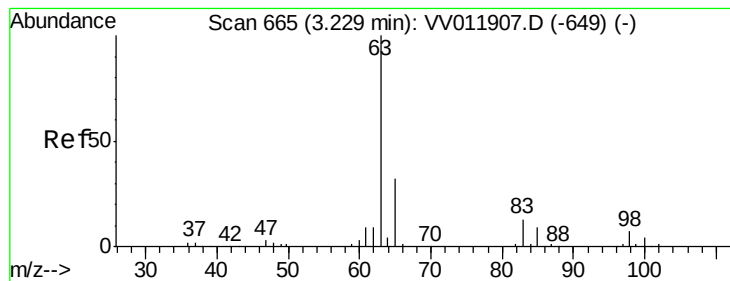
0

2.75

2.80

Time-->





#19

1,1-Dichloroethane

Concen: 16.773 ug/L

RT: 3.23 min Scan# 665

Delta R.T. -0.00 min

Lab File: VV011916.D

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ClientSampleId :

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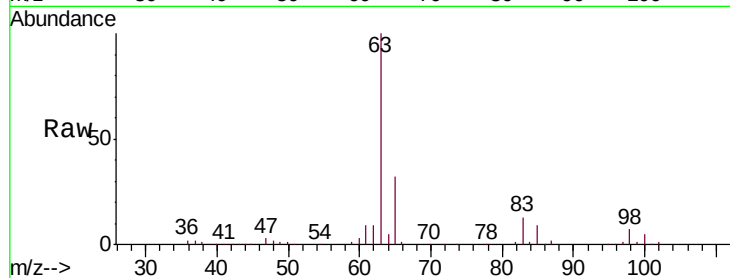
Tgt Ion: 63 Resp: 354713

Ion Ratio Lower Upper

63 100

65 32.3 22.7 42.3

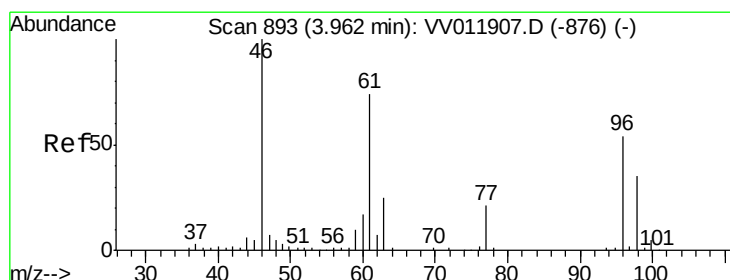
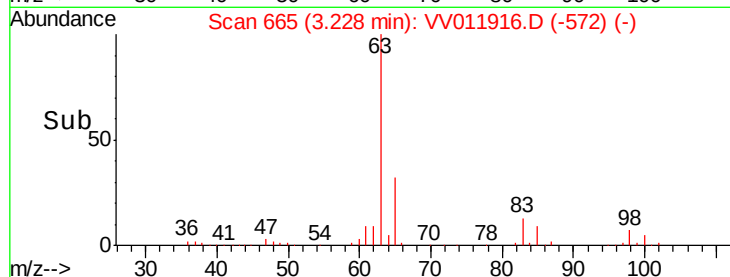
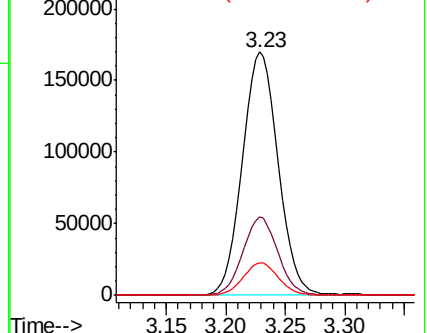
83 13.4 9.4 17.6



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



#22

cis-1,2-Dichloroethene

Concen: 4.986 ug/L

RT: 3.96 min Scan# 893

Delta R.T. -0.00 min

Lab File: VV011916.D

Acq: 17 Jul 2019 17:24

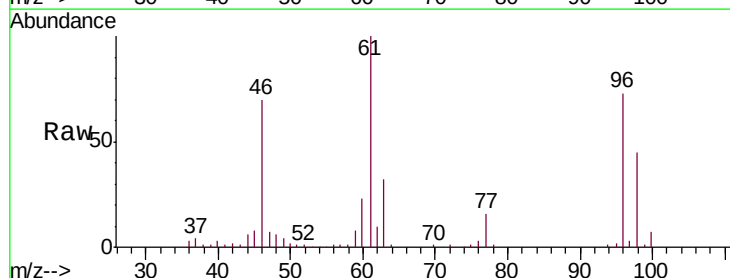
Tgt Ion: 96 Resp: 57571

Ion Ratio Lower Upper

96 100

61 136.7 95.2 176.8

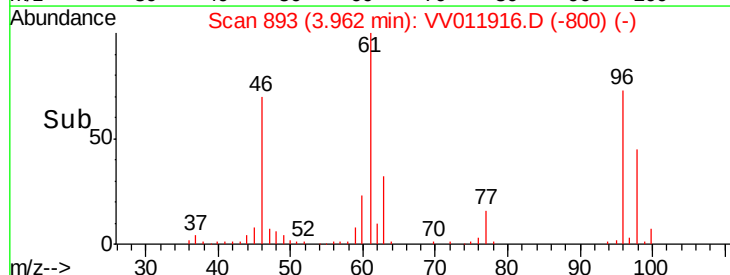
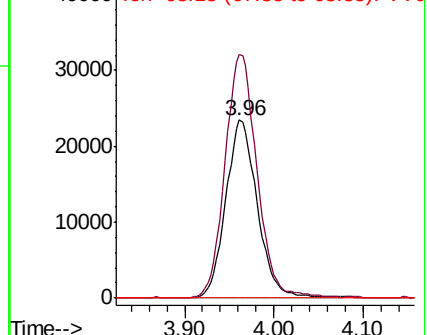
68 0.0 0.0 0.0

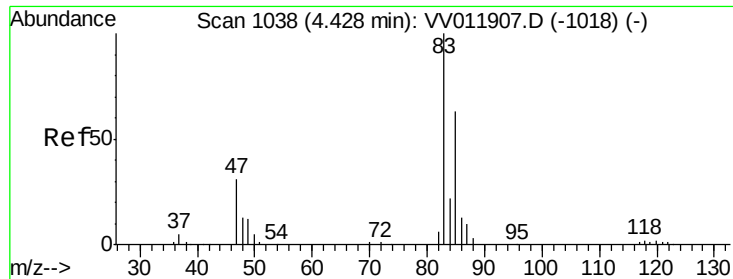


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 68.15 (67.85 to 68.85): VV0

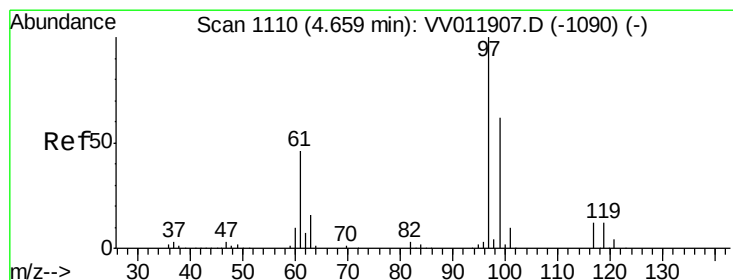
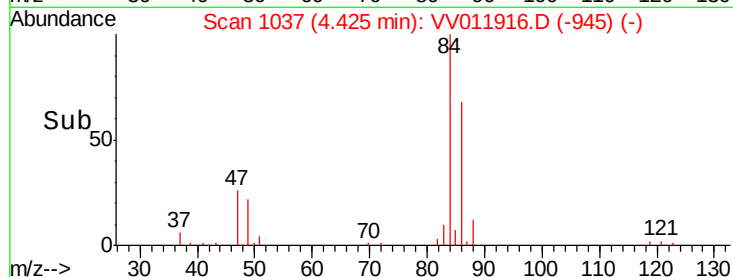
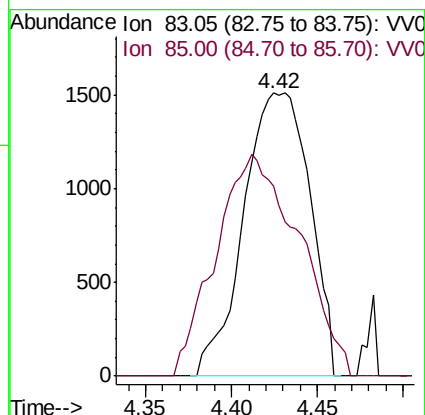
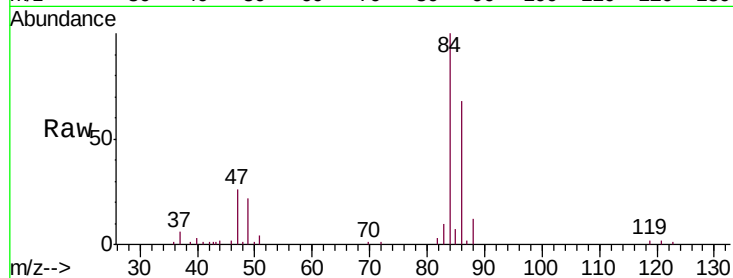




#25
Chloroform
Concen: 0.177 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV011916.D
Acq: 17 Jul 2019 17:24

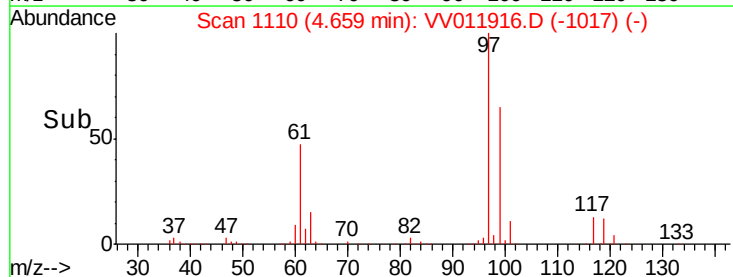
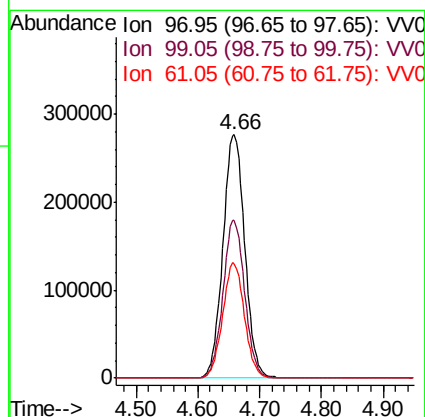
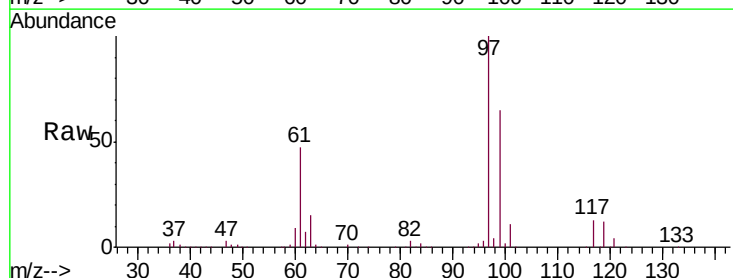
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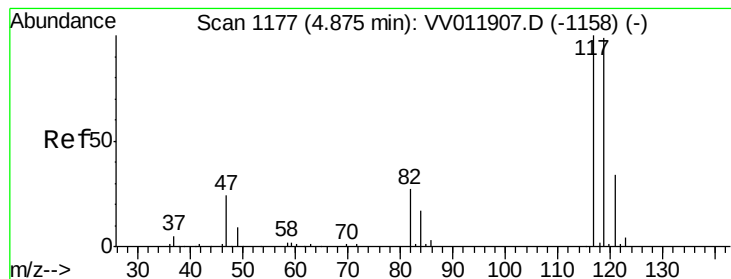
Tgt Ion: 83 Resp: 4047
Ion Ratio Lower Upper
83 100
85 67.2 42.5 78.9



#29
1,1,1-Trichloroethane
Concen: 37.560 ug/L
RT: 4.66 min Scan# 1110
Delta R.T. -0.00 min
Lab File: VV011916.D
Acq: 17 Jul 2019 17:24

Tgt Ion: 97 Resp: 678915
Ion Ratio Lower Upper
97 100
99 64.3 51.1 76.7
61 47.1 38.6 57.8





#31

Carbon tetrachloride

Concen: 5.290 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.22 min

Lab File: VV011916.D

Acq: 17 Jul 2019 17:24

Instrument :

MSVOA_V

ClientSampleId :

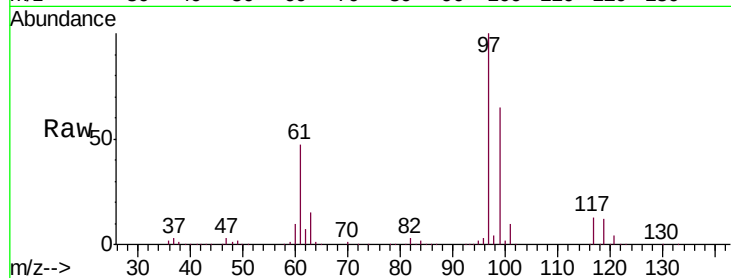
A52K4

Tgt Ion: 117 Resp: 83507

Ion Ratio Lower Upper

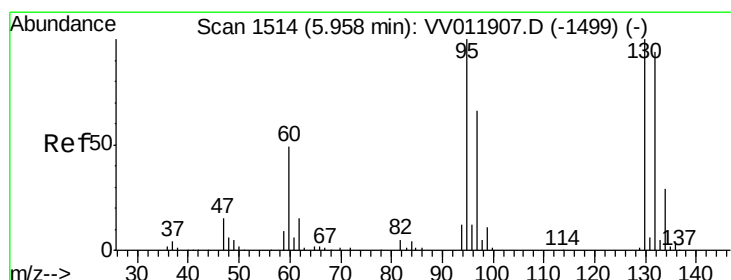
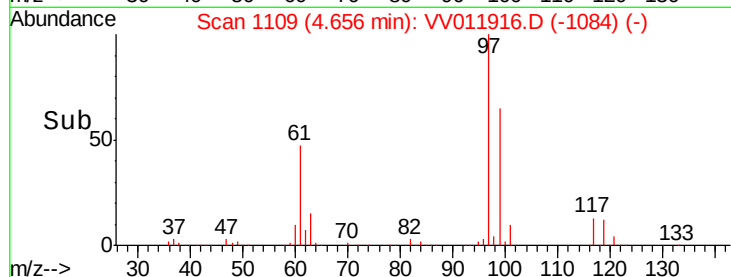
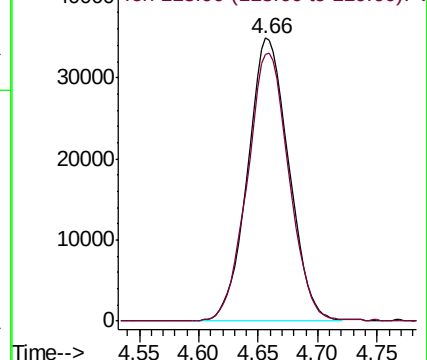
117 100

119 95.9 77.4 116.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#34

Trichloroethene

Concen: 1.009 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV011916.D

Acq: 17 Jul 2019 17:24

Tgt Ion: 95 Resp: 12908

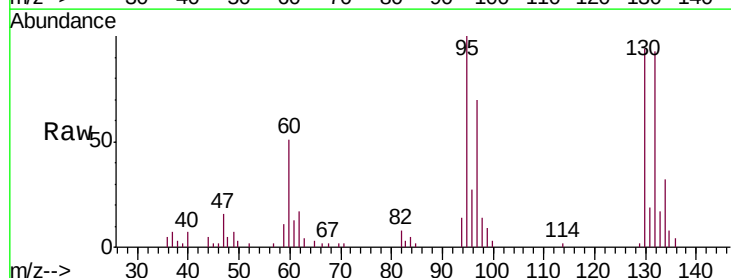
Ion Ratio Lower Upper

95 100

97 69.9 44.0 81.6

132 93.2 67.0 124.4

130 94.3 69.1 128.3

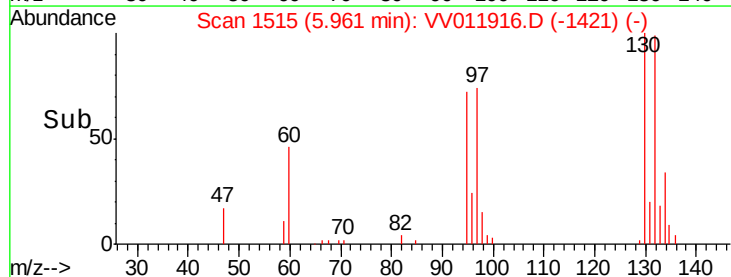
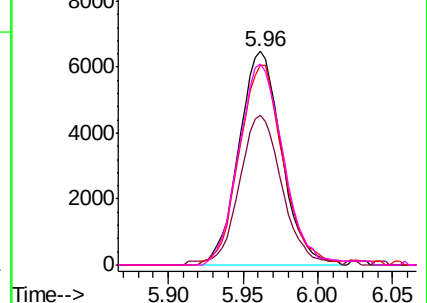


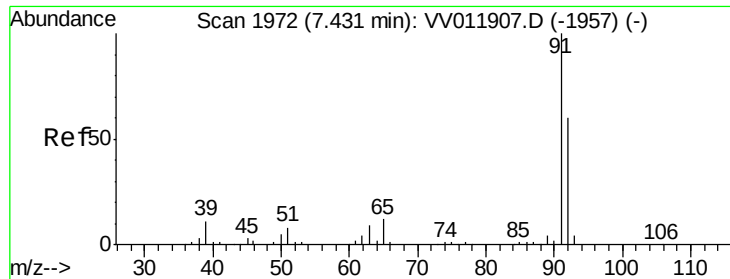
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V





#42

Toluene

Concen: 0.094 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV011916.D

Acq: 17 Jul 2019 17:24

Instrument :

MSVOA_V

ClientSampleId :

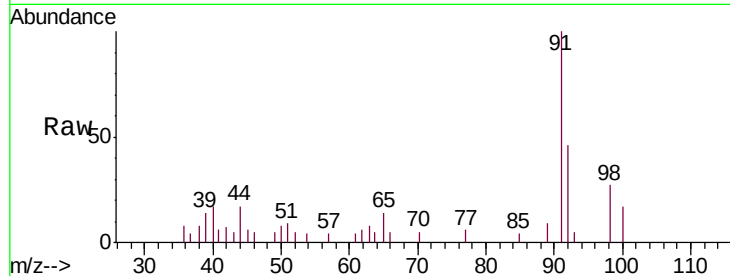
A52K4

Tgt Ion: 91 Resp: 4532

Ion Ratio Lower Upper

91 100

92 45.9 41.1 76.3

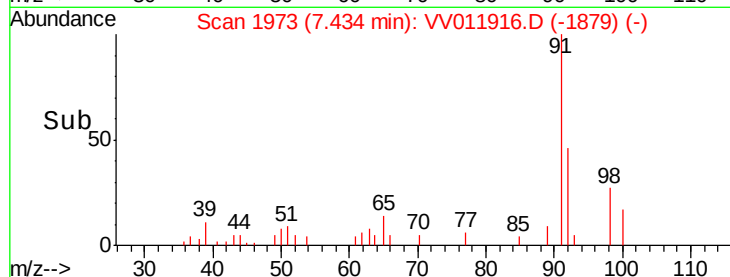


Abundance Ion 91.15 (90.85 to 91.85): VV011916.D (-1879) (-)

Ion 92.15 (91.85 to 92.85): VV011916.D (-1879) (-)

7.43

Time-->



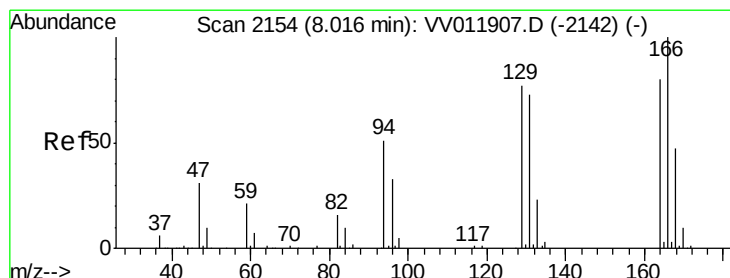
Abundance

Ion 91.15 (90.85 to 91.85): VV011916.D (-1879) (-)

Ion 92.15 (91.85 to 92.85): VV011916.D (-1879) (-)

7.43

Time-->



#47

Tetrachloroethene

Concen: 0.613 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV011916.D

Acq: 17 Jul 2019 17:24

Tgt Ion: 164 Resp: 5773

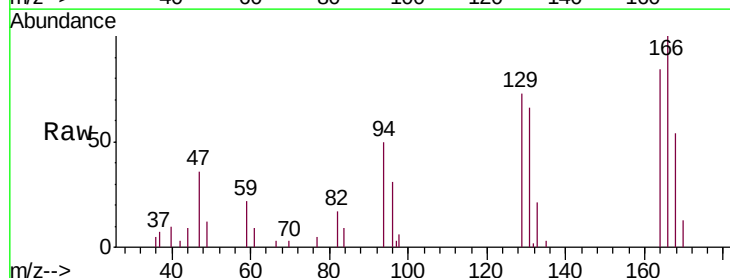
Ion Ratio Lower Upper

164 100

129 86.6 68.6 127.4

131 77.9 64.6 120.0

166 118.6 89.7 166.7



Abundance Ion 163.90 (163.60 to 164.60): VV011916.D (-2061) (-)

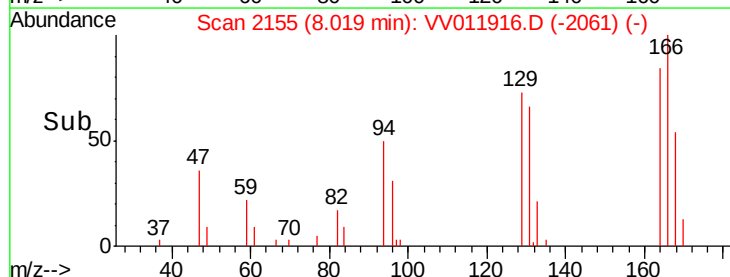
Ion 128.95 (128.65 to 129.65): VV011916.D (-2061) (-)

Ion 130.95 (130.65 to 131.65): VV011916.D (-2061) (-)

Ion 165.90 (165.60 to 166.60): VV011916.D (-2061) (-)

8.02

Time-->



Abundance

Ion 163.90 (163.60 to 164.60): VV011916.D (-2061) (-)

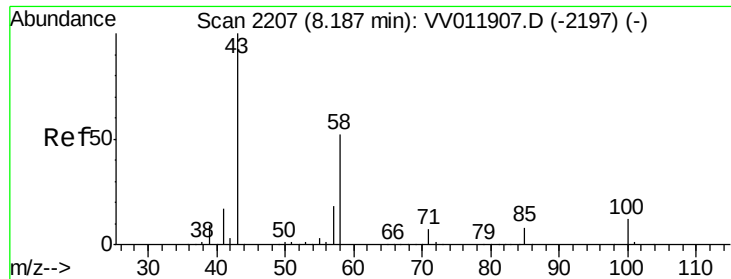
Ion 128.95 (128.65 to 129.65): VV011916.D (-2061) (-)

Ion 130.95 (130.65 to 131.65): VV011916.D (-2061) (-)

Ion 165.90 (165.60 to 166.60): VV011916.D (-2061) (-)

8.02

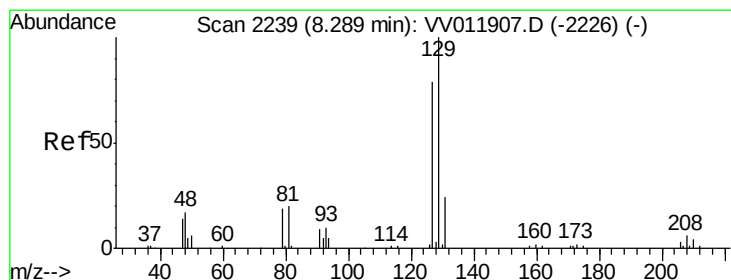
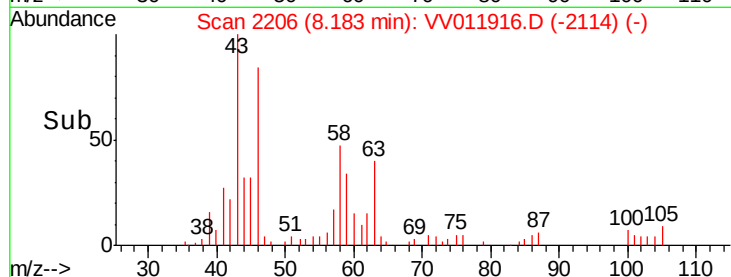
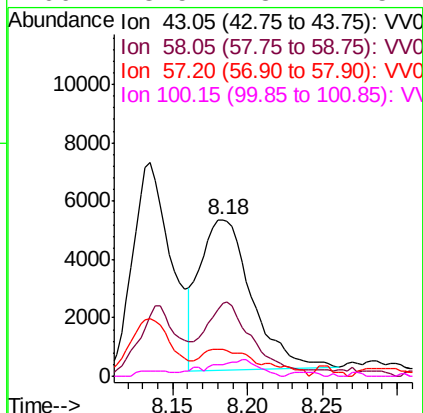
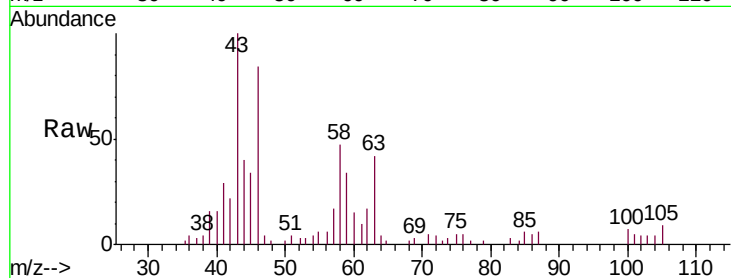
Time-->



#48
2-Hexanone
Concen: 2.580 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV011916.D
Acq: 17 Jul 2019 17:24

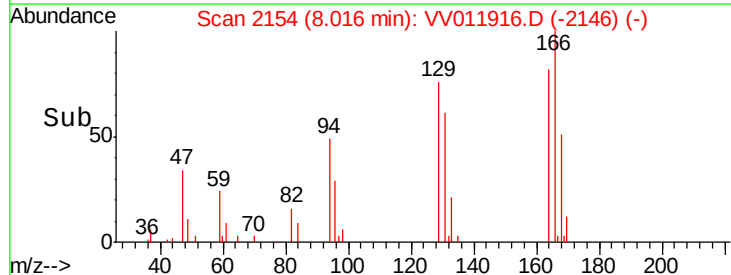
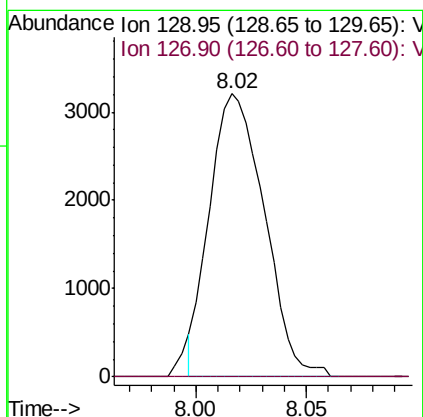
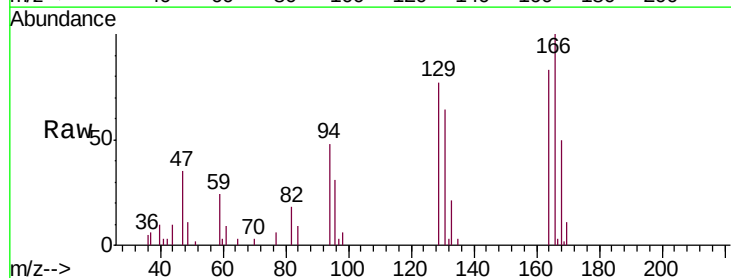
Instrument :
MSVOA_V
ClientSampleId :
A52K4

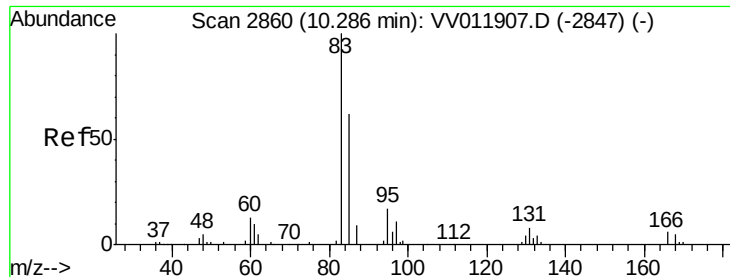
Tgt Ion:	43	Resp:	12465
Ion	Ratio	Lower	Upper
43	100		
58	40.8	41.1	61.7#
57	20.7	14.3	21.5
100	8.5	8.7	13.1#



#49
Dibromochloromethane
Concen: 0.669 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. -0.27 min
Lab File: VV011916.D
Acq: 17 Jul 2019 17:24

Tgt Ion:	129	Resp:	5513
Ion	Ratio	Lower	Upper
129	100		
127	0.0	54.3	100.9#

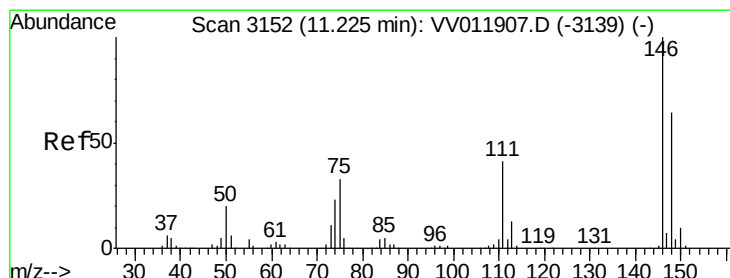
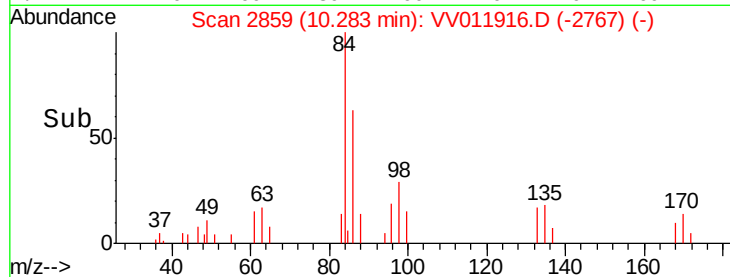
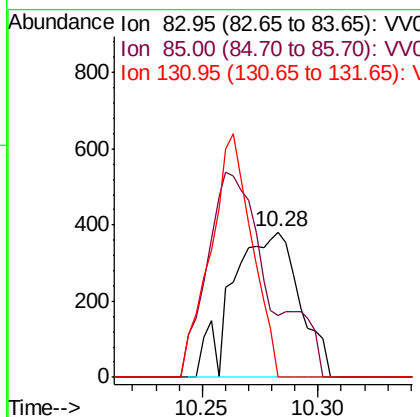
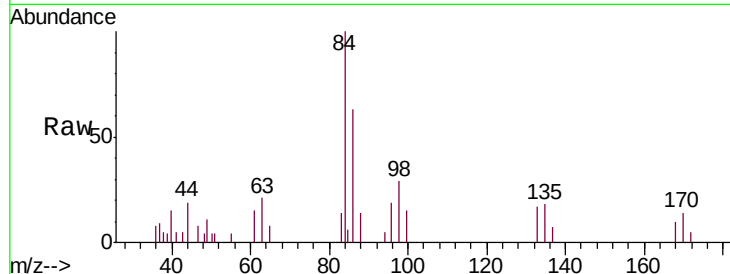




#58
 1,1,2,2-Tetrachloroethane
 Concen: 0.106 ug/L
 RT: 10.28 min Scan# 2859
 Delta R.T. -0.00 min
 Lab File: VV011916.D
 Acq: 17 Jul 2019 17:24

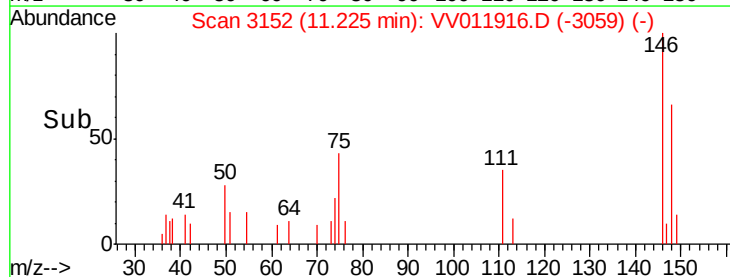
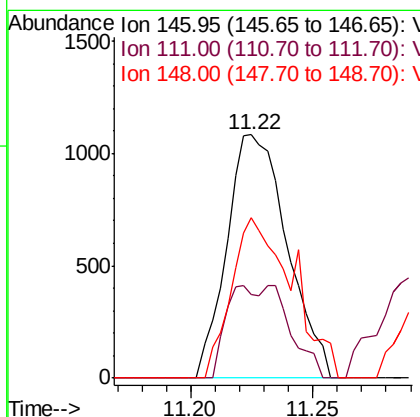
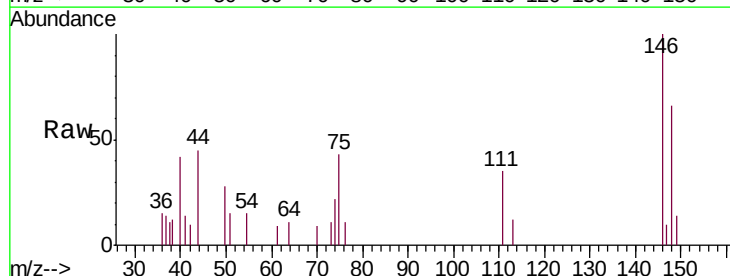
Instrument :
 MSVOA_V
 ClientSampleId :
 A52K4

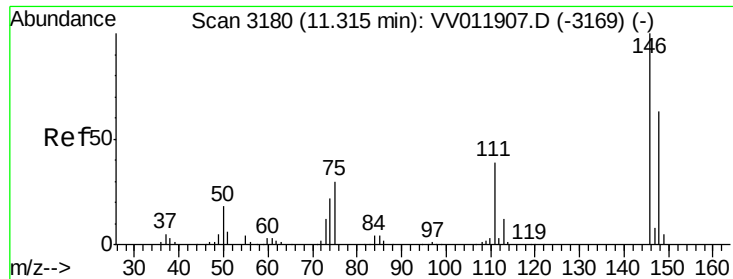
Tgt Ion: 83 Resp: 765
 Ion Ratio Lower Upper
 83 100
 85 42.7 44.9 83.3#
 131 0.0 8.2 12.2#



#62
 1,3-Dichlorobenzene
 Concen: 0.091 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV011916.D
 Acq: 17 Jul 2019 17:24

Tgt Ion: 146 Resp: 1863
 Ion Ratio Lower Upper
 146 100
 111 34.5 28.1 52.1
 148 65.7 44.3 82.3

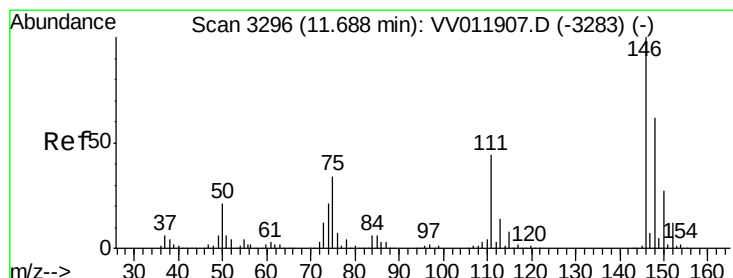
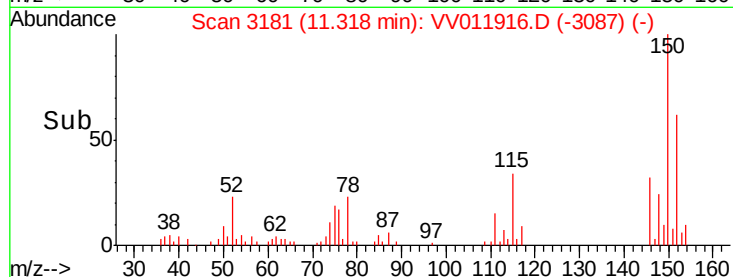
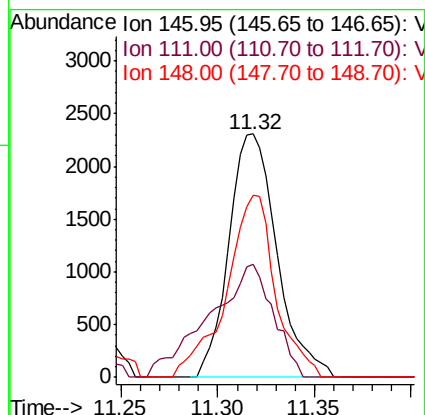
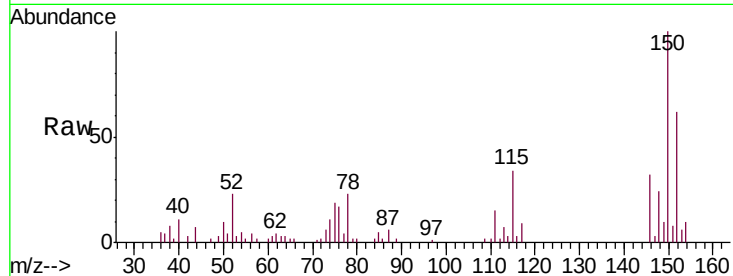




#63
 1,4-Dichlorobenzene
 Concen: 0.189 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV011916.D
 Acq: 17 Jul 2019 17:24

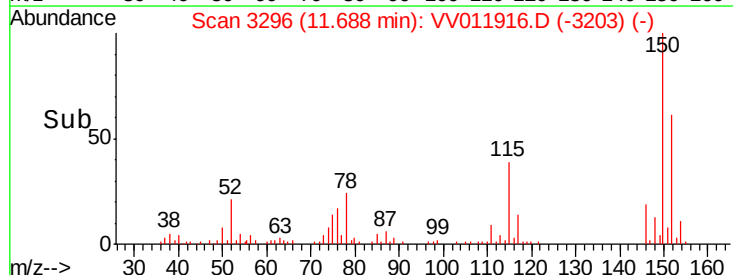
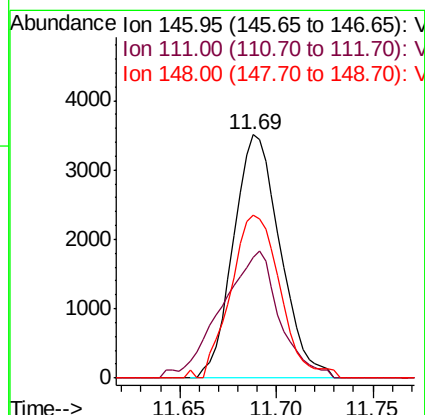
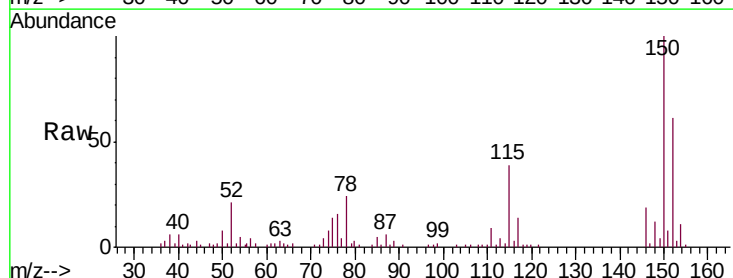
Instrument :
 MSVOA_V
 ClientSampleId :
 A52K4

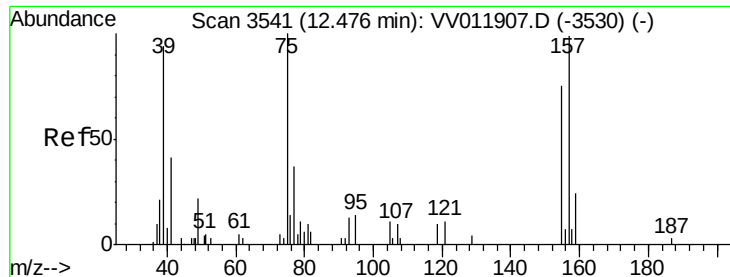
Tgt Ion:146 Resp: 3984
 Ion Ratio Lower Upper
 146 100
 111 46.6 28.0 52.0
 148 74.8 44.5 82.7



#65
 1,2-Dichlorobenzene
 Concen: 0.307 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV011916.D
 Acq: 17 Jul 2019 17:24

Tgt Ion:146 Resp: 5890
 Ion Ratio Lower Upper
 146 100
 111 49.8 34.0 51.0
 148 67.0 51.8 77.6

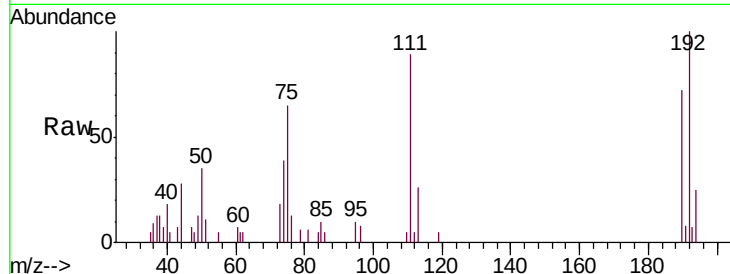




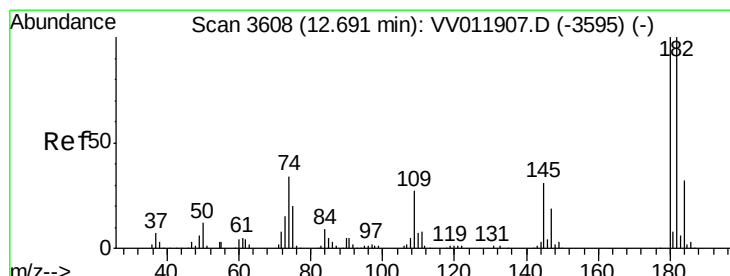
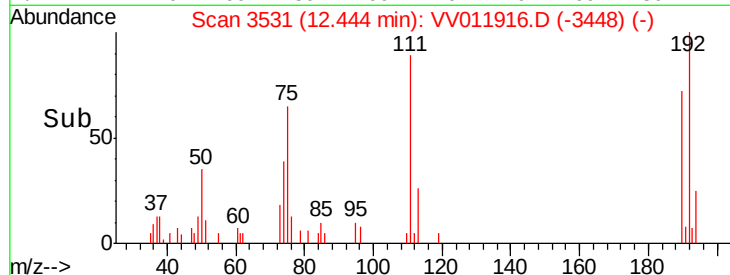
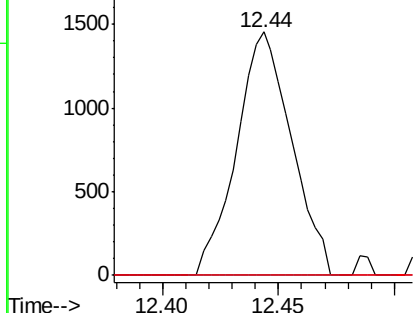
#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.200 ug/L
 RT: 12.44 min Scan# 3531
 Delta R.T. -0.03 min
 Lab File: VV011916.D
 Acq: 17 Jul 2019 17:24

Instrument :
 MSVOA_V
 ClientSampleId :
 A52K4

Tgt Ion: 75 Resp: 2400
 Ion Ratio Lower Upper
 75 100
 155 0.0 59.4 89.0#
 157 0.0 85.5 128.3#



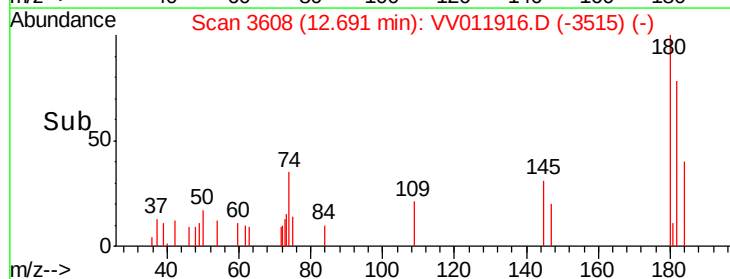
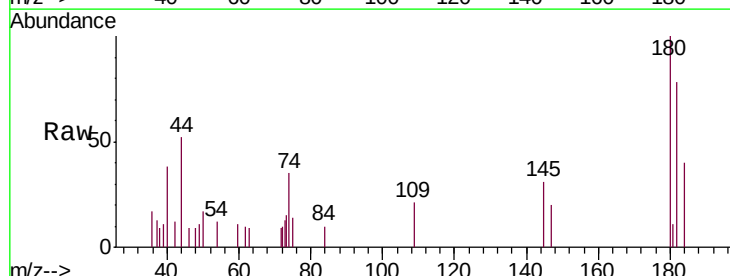
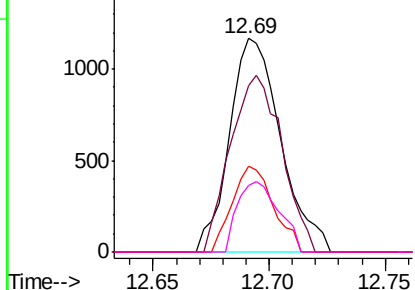
Abundance Ion 75.05 (74.75 to 75.75): VV011916.D (-3531) (-)
 Ion 154.95 (154.65 to 155.65): VV011916.D (-3531) (-)
 Ion 156.90 (156.60 to 157.60): VV011916.D (-3531) (-)

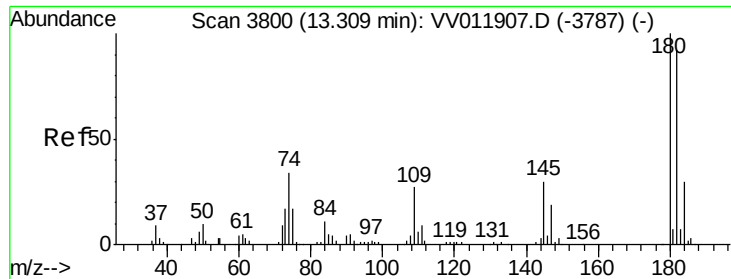


#67
 1,3,5-Trichlorobenzene
 Concen: 0.111 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV011916.D
 Acq: 17 Jul 2019 17:24

Tgt Ion: 180 Resp: 1795
 Ion Ratio Lower Upper
 180 100
 182 82.8 75.5 113.3
 184 32.1 24.2 36.2
 145 26.4 23.5 35.3

Abundance Ion 180.00 (179.70 to 180.70): VV011916.D (-3515) (-)
 Ion 182.00 (181.70 to 182.70): VV011916.D (-3515) (-)
 Ion 184.00 (183.70 to 184.70): VV011916.D (-3515) (-)
 Ion 145.00 (144.70 to 145.70): VV011916.D (-3515) (-)

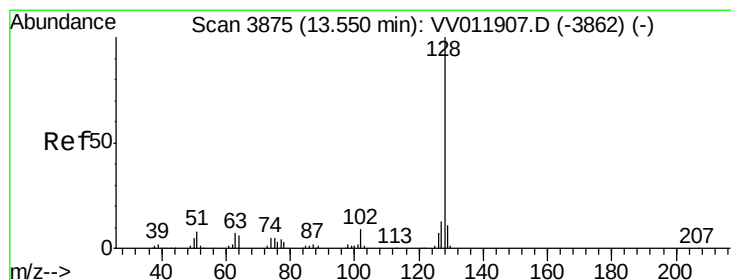
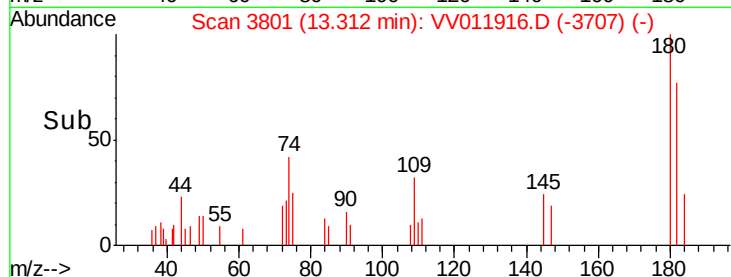
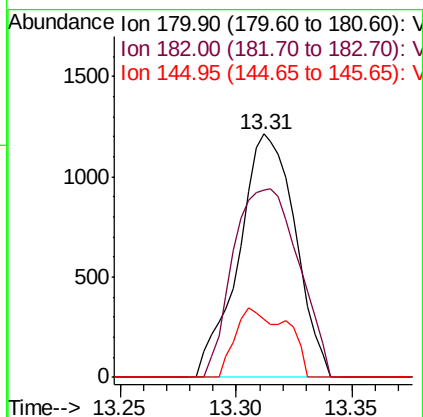
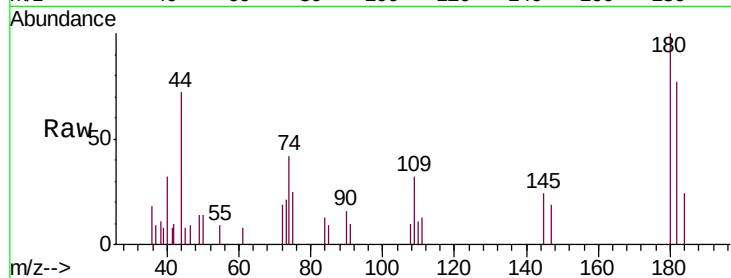




#68
 1,2,4-trichlorobenzene
 Concen: 0.162 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV011916.D
 Acq: 17 Jul 2019 17:24

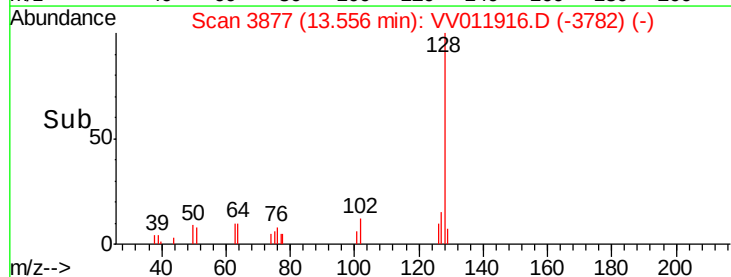
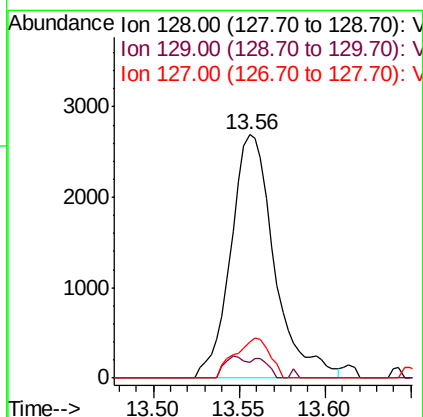
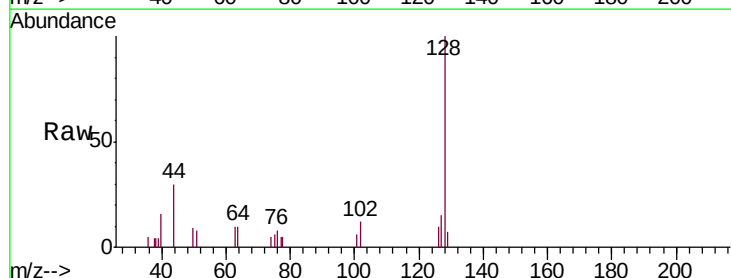
Instrument :
 MSVOA_V
 ClientSampleId :
 A52K4

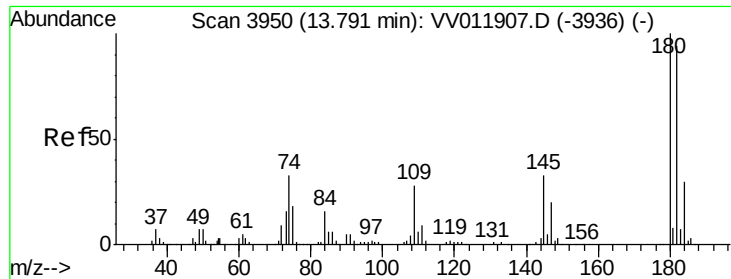
Tgt Ion:180 Resp: 2060
 Ion Ratio Lower Upper
 180 100
 182 90.1 76.0 114.0
 145 25.7 24.2 36.4



#69
 Naphthalene
 Concen: 0.243 ug/L
 RT: 13.56 min Scan# 3877
 Delta R.T. 0.01 min
 Lab File: VV011916.D
 Acq: 17 Jul 2019 17:24

Tgt Ion:128 Resp: 4732
 Ion Ratio Lower Upper
 128 100
 129 4.7 8.6 13.0#
 127 13.0 10.7 16.1

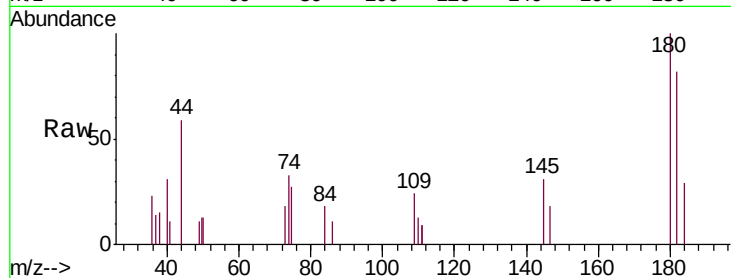




#70
 1,2,3-Trichlorobenzene
 Concen: 0.161 ug/L
 RT: 13.79 min Scan# 3950
 Delta R.T. -0.00 min
 Lab File: VV011916.D
 Acq: 17 Jul 2019 17:24

Instrument :
 MSVOA_V
 ClientSampleId :
 A52K4

Tgt Ion:180 Resp: 1843
 Ion Ratio Lower Upper
 180 100
 182 85.4 77.0 115.6
 145 33.7 26.1 39.1



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 181.90 (181.60 to 182.60): V
 Ion 144.95 (144.65 to 145.65): V

