

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120219\
 Data File : VV013876.D
 Acq On : 02 Dec 2019 17:12
 Operator : SY/MD
 Sample : K6028-11
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 03 03:06:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM120219WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Dec 03 02:59:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	675450	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	625993	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	328701	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	175473	44.92	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.84%
7) Chloroethane-d5	1.57	69	187569	46.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.00%
11) 1,1-Dichloroethene-d2	2.13	63	295100	34.16	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	68.32%
21) 2-Butanone-d5	3.92	46	310173	112.81	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	112.81%
24) Chloroform-d	4.40	84	392640	47.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.72%
26) 1,2-Dichloroethane-d4	5.07	65	248507	47.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.60%
32) Benzene-d6	5.09	84	814949	50.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.48%
36) 1,2-Dichloropropane-d6	6.11	67	265865	54.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	109.20%
41) Toluene-d8	7.35	98	733847	49.63	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.26%
43) trans-1,3-Dichloropropene-	7.66	79	120912	51.03	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.06%
47) 2-Hexanone-d5	8.12	63	210874	115.99	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	115.99%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	335059	47.52	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.04%
64) 1,2-Dichlorobenzene-d4	11.67	152	325616	50.44	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.88%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.51	64	4180	1.095	ug/L #	52
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	3666	0.722	ug/L #	34
13) Acetone	2.15	43	733921	182.142	ug/L	54
14) Carbon disulfide	2.32	76	58836	4.547	ug/L	100
16) Methylene chloride	2.51	84	14395	2.817	ug/L #	1
29) Cyclohexane	4.72	56	176568	24.142	ug/L	98
34) Trichloroethene	5.96	95	31226	6.245	ug/L	93
35) Methylcyclohexane	6.15	83	134617	17.944	ug/L #	14
38) Bromodichloromethane	6.59	83	17505	2.736	ug/L #	25
39) cis-1,3-Dichloropropene	7.02	75	6513	0.917	ug/L #	1
40) 4-Methyl-2-pentanone	7.31	43	25614	4.366	ug/L #	44
45) 1,1,2-Trichloroethane	7.83	97	182493	40.748	ug/L #	21
46) Tetrachloroethene	8.02	164	9333	2.069	ug/L	94
48) 2-Hexanone	8.13	43	25724	5.481	ug/L #	64
56) Isopropylbenzene	9.97	105	55065	2.555	ug/L	97
58) 1,1,2,2-Tetrachloroethane	10.28	83	5611	0.770	ug/L #	53
59) 1,2,3-Trichloropropane	11.29	75	31297	5.126	ug/L	92

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Quant Title : VOC Analysis
QLast Update : Tue Dec 03 02:59:26 2019
Response via : Initial Calibration

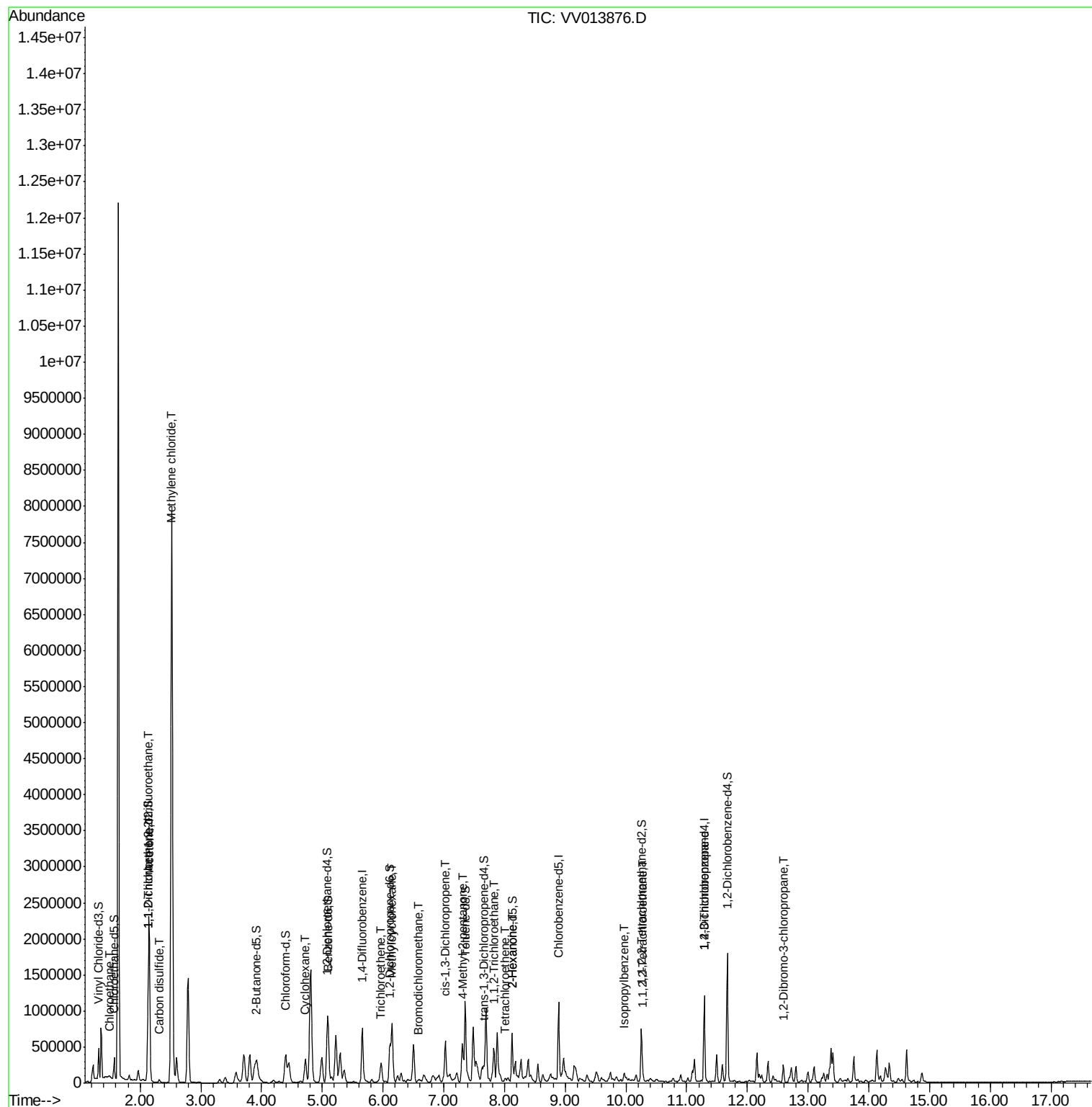
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 1,2-Dibromo-3-chloropropan	12.59	75	1976	1.318	ug/L #	1

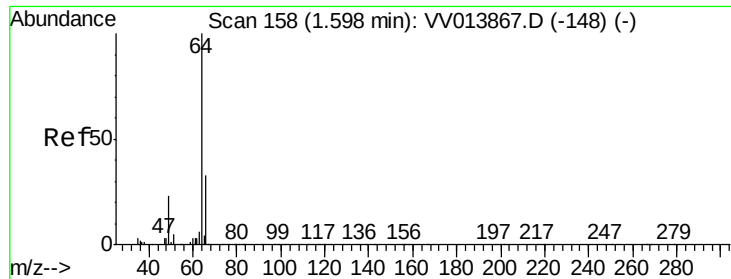
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM120219WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Dec 03 02:59:26 2019
Response via : Initial Calibration





#8

Chloroethane

Concen: 1.095 ug/L

RT: 1.51 min Scan# 131

Delta R.T. -0.09 min

Lab File: VV013876.D

Acq: 02 Dec 2019 17:12

Instrument :

MSVOA_V

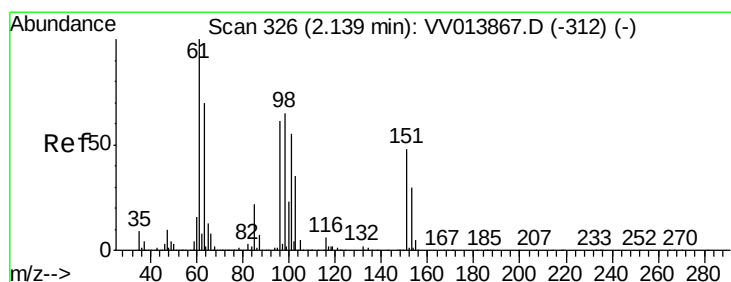
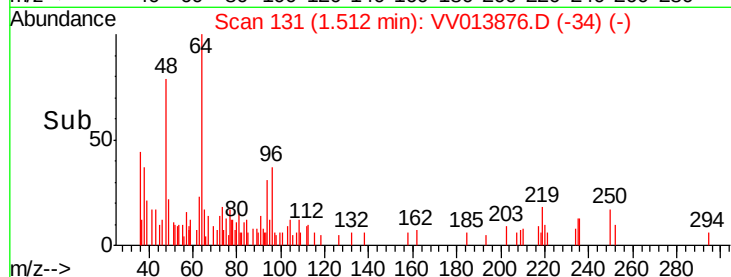
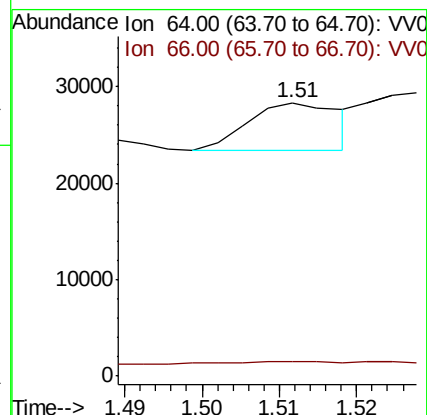
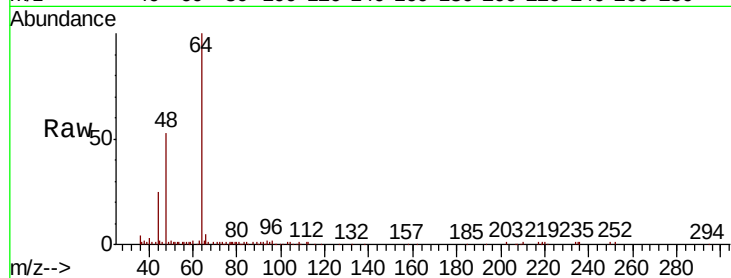
ClientSampleId :

Tot Ion: 64 Resp: 4180

Ion Ratio Lower Upper

64 100

66 5.5 22.7 42.1#



#10

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

Concen: 0.722 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV013876.D

Acq: 02 Dec 2019 17:12

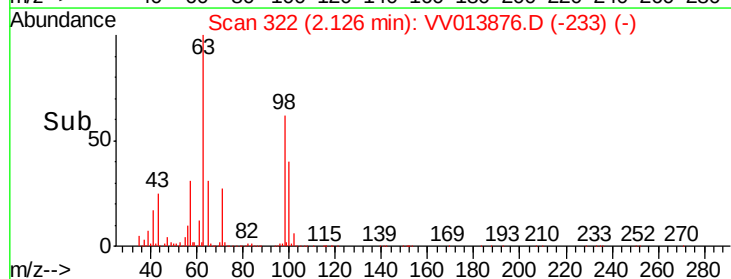
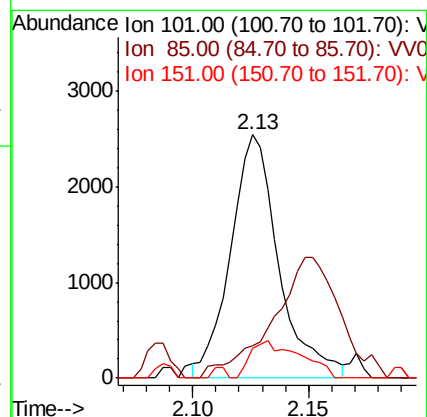
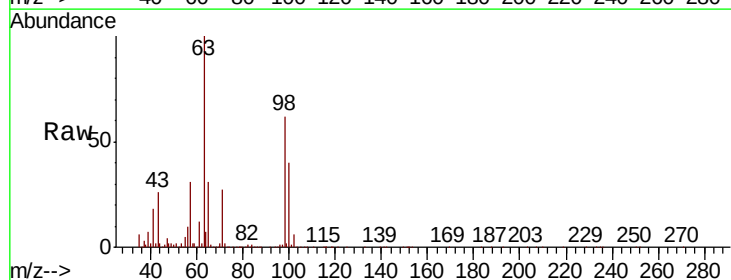
Tgt Ion: 101 Resp: 3666

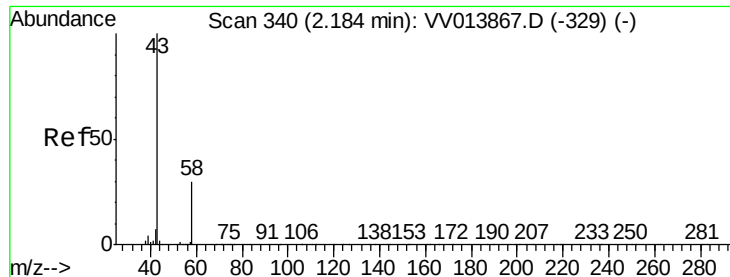
Ion Ratio Lower Upper

101 100

85 54.6 32.5 48.7#

151 7.8 69.8 104.6#





#13

Acetone

Concen: 182.142 ug/L

RT: 2.15 min Scan# 329

Delta R.T. -0.04 min

Lab File: VV013876.D

Acq: 02 Dec 2019 17:12

Instrument :

MSVOA_V

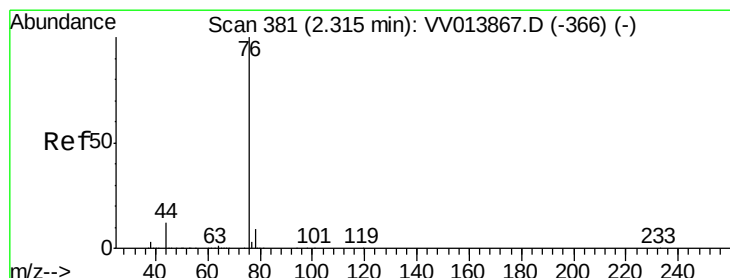
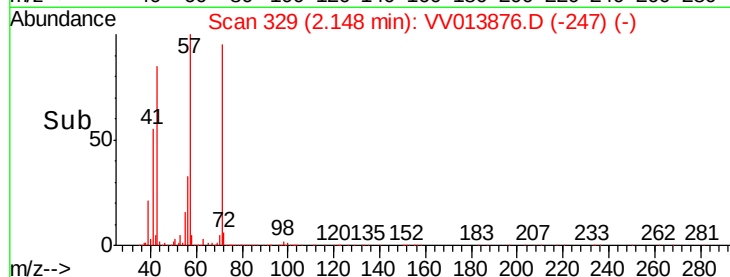
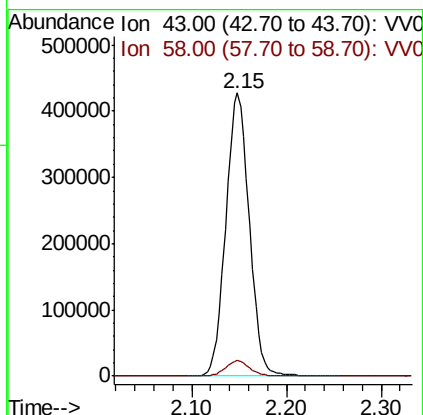
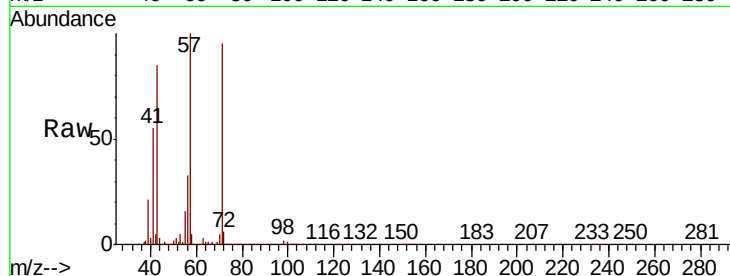
ClientSampleId :

Tot Ion: 43 Resp: 733921

Ion Ratio Lower Upper

43 100

58 5.6 0.0 60.8



#14

Carbon disulfide

Concen: 4.547 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV013876.D

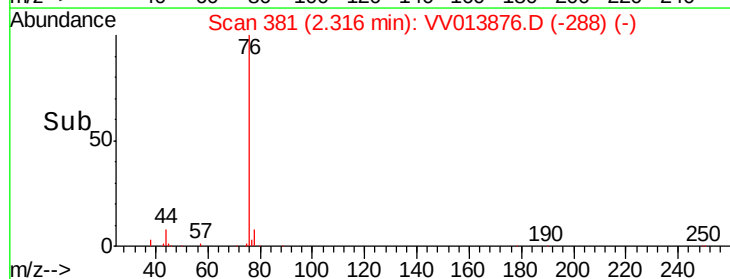
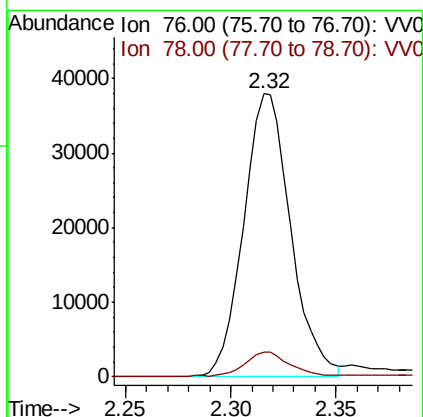
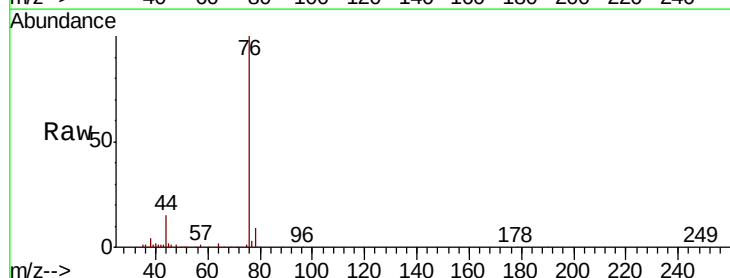
Acq: 02 Dec 2019 17:12

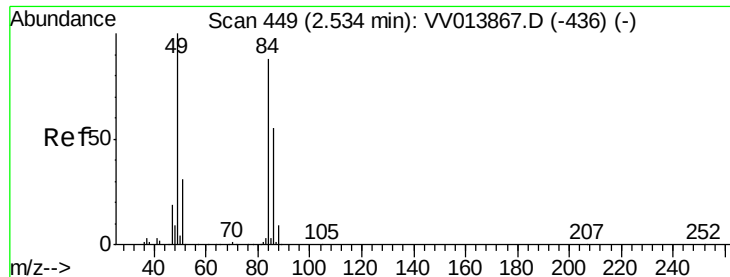
Tgt Ion: 76 Resp: 58836

Ion Ratio Lower Upper

76 100

78 8.9 7.2 10.8

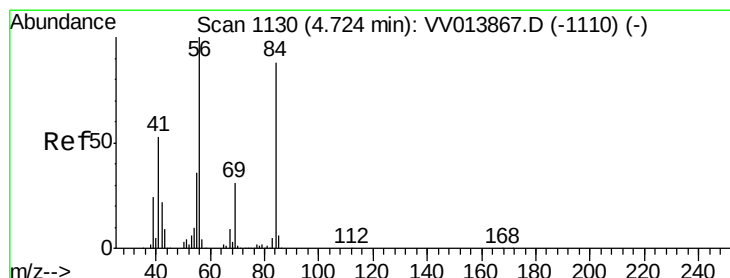
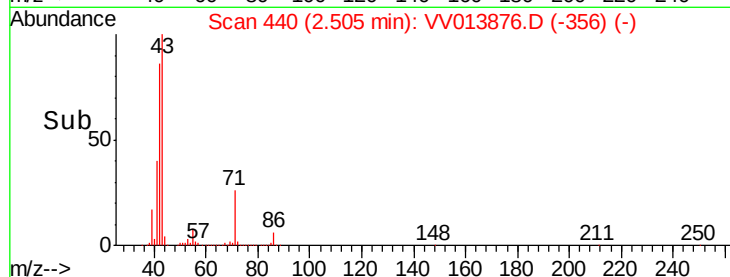
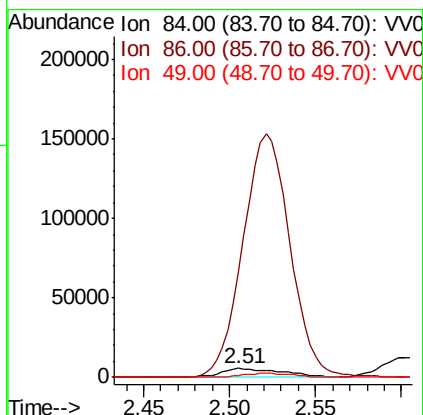
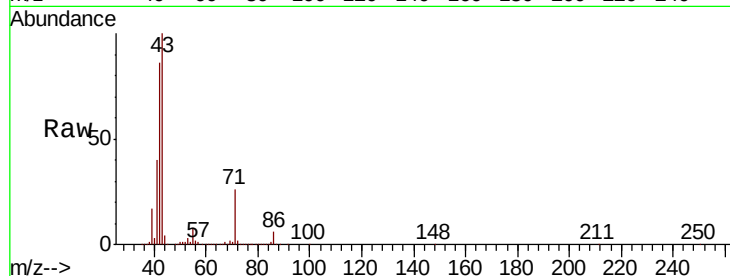




#16
Methylene chloride
Concen: 2.817 ug/L
RT: 2.51 min Scan# 440
Delta R.T. -0.03 min
Lab File: VV013876.D
Acq: 02 Dec 2019 17:12

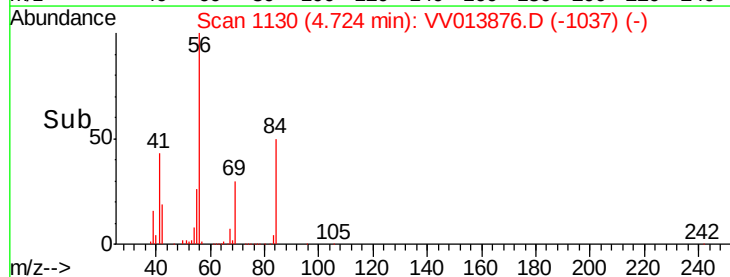
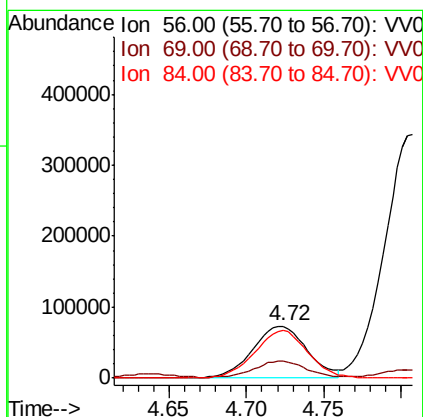
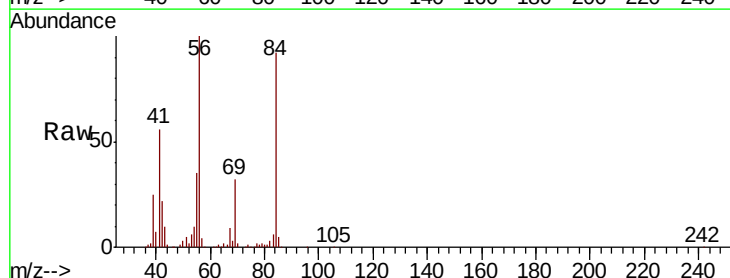
Instrument :
MSVOA_V
ClientSampleId :

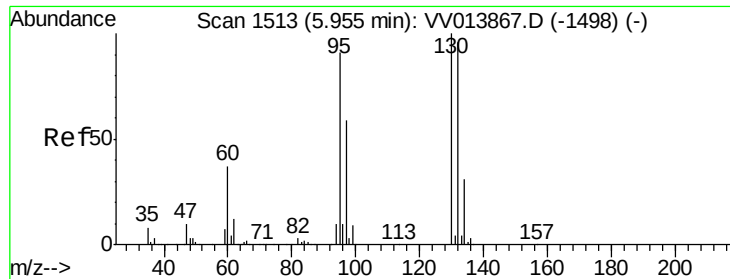
Tot Ion: 84 Resp: 14395
Ion Ratio Lower Upper
84 100
86 1201.9 43.9 81.5#
49 20.5 79.7 147.9#



#29
Cyclohexane
Concen: 24.142 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. 0.00 min
Lab File: VV013876.D
Acq: 02 Dec 2019 17:12

Tgt Ion: 56 Resp: 176568
Ion Ratio Lower Upper
56 100
69 29.6 24.9 37.3
84 90.4 71.0 106.4

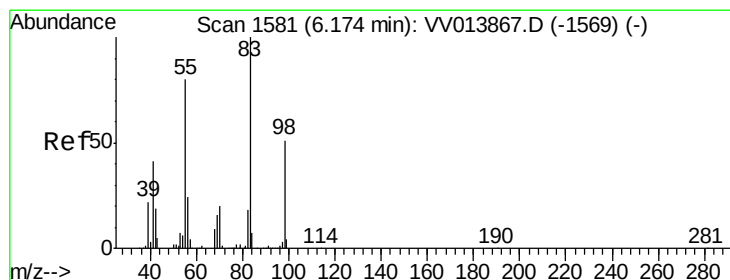
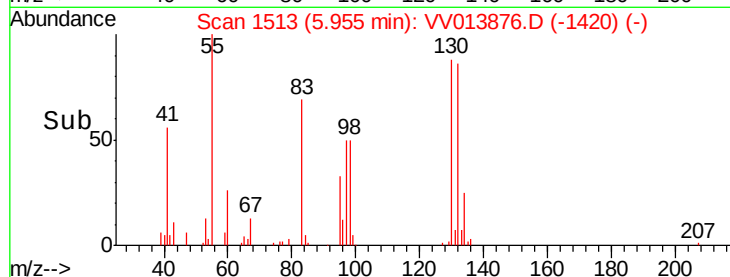
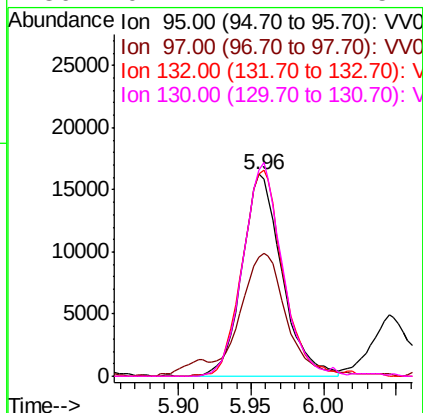
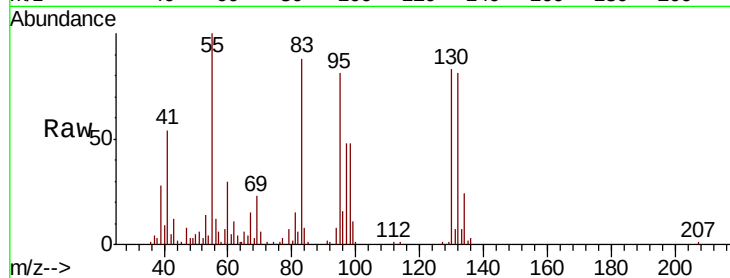




#34
 Trichloroethene
 Concen: 6.245 ug/L
 RT: 5.96 min Scan# 1513
 Delta R.T. 0.00 min
 Lab File: VV013876.D
 Acq: 02 Dec 2019 17:12

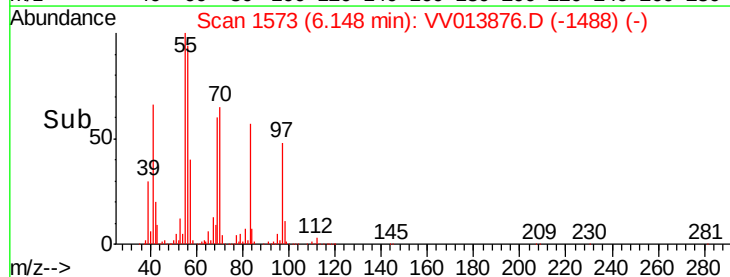
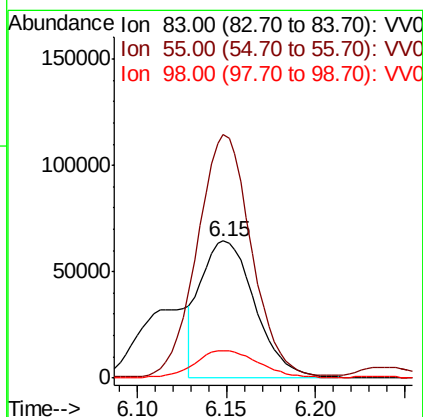
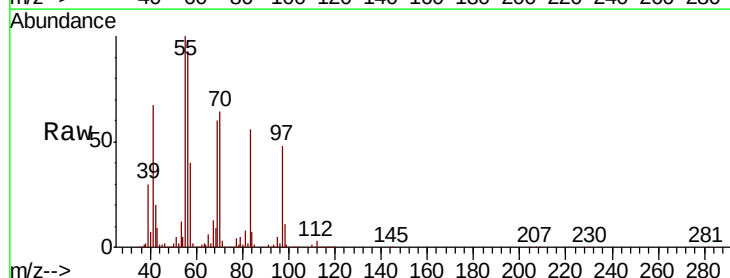
Instrument :
 MSVOA_V
 ClientSampleId :

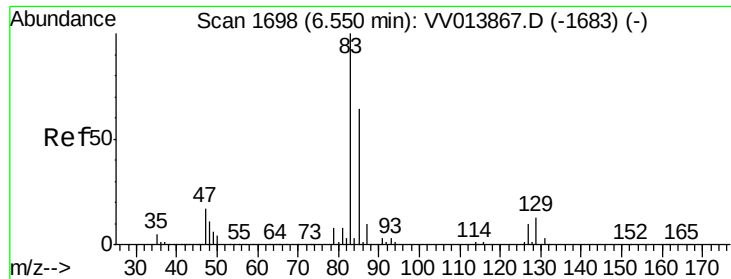
Tot Ion: 95 Resp: 31226
 Ion Ratio Lower Upper
 95 100
 97 59.2 45.4 84.4
 132 99.9 73.7 136.9
 130 102.4 77.1 143.1



#35
 Methylcyclohexane
 Concen: 17.944 ug/L
 RT: 6.15 min Scan# 1573
 Delta R.T. -0.03 min
 Lab File: VV013876.D
 Acq: 02 Dec 2019 17:12

Tgt Ion: 83 Resp: 134617
 Ion Ratio Lower Upper
 83 100
 55 177.2 61.0 91.4#
 98 24.2 39.6 59.4#





#38

Bromodichloromethane

Concen: 2.736 ug/L

RT: 6.59 min Scan# 1711

Delta R.T. 0.04 min

Lab File: VV013876.D

Acq: 02 Dec 2019 17:12

Instrument :

MSVOA_V

ClientSampled :

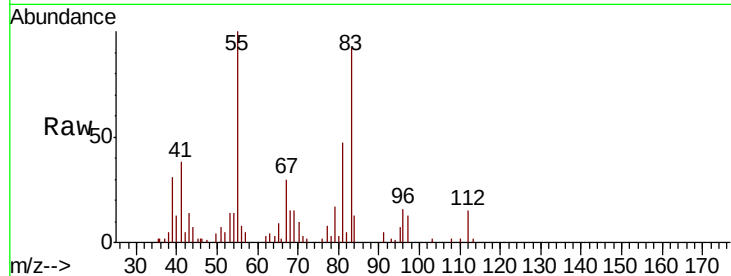
Tot Ion: 83 Resp: 17505

Ion Ratio Lower Upper

83 100

85 0.0 44.8 83.2#

127 0.0 7.7 11.5#

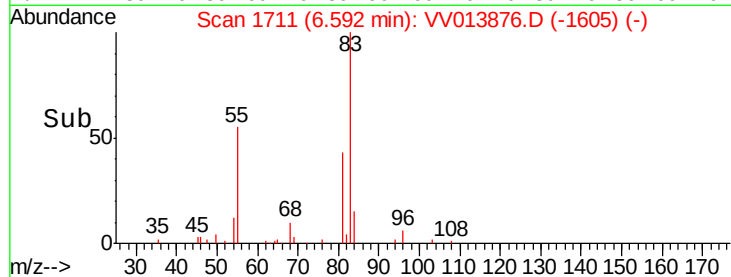


Abundance Ion 83.00 (82.70 to 83.70): VV013876.D (-1683) (-)

Ion 85.00 (84.70 to 85.70): VV013876.D (-1683) (-)

Ion 127.00 (126.70 to 127.70): VV013876.D (-1683) (-)

Time-->



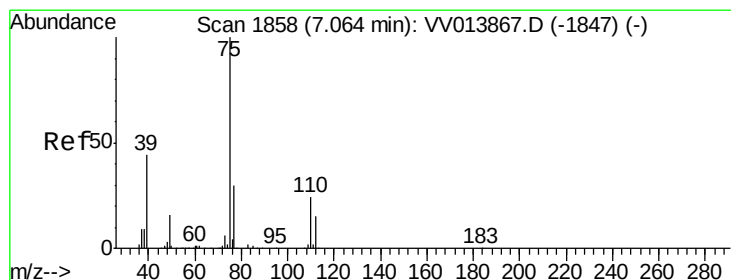
Abundance

Ion 83.00 (82.70 to 83.70): VV013876.D (-1683) (-)

Ion 85.00 (84.70 to 85.70): VV013876.D (-1683) (-)

Ion 127.00 (126.70 to 127.70): VV013876.D (-1683) (-)

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.917 ug/L

RT: 7.02 min Scan# 1845

Delta R.T. -0.04 min

Lab File: VV013876.D

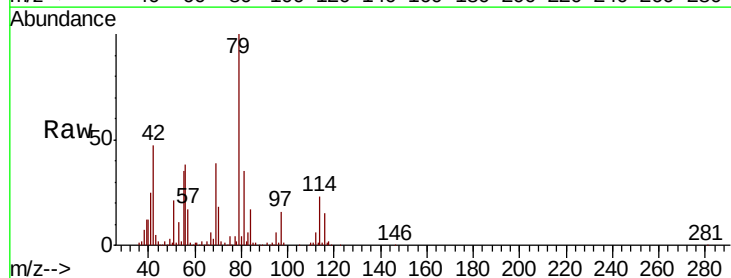
Acq: 02 Dec 2019 17:12

Tgt Ion: 75 Resp: 6513

Ion Ratio Lower Upper

75 100

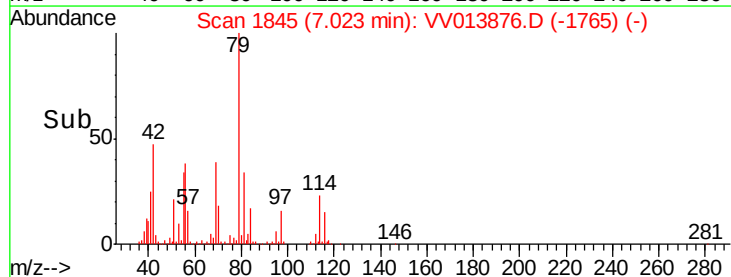
77 101.8 21.6 40.2#



Abundance Ion 75.00 (74.70 to 75.70): VV013876.D (-1847) (-)

Ion 77.00 (76.70 to 77.70): VV013876.D (-1847) (-)

Time-->

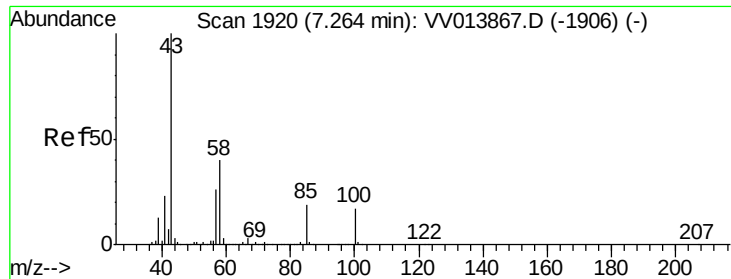


Abundance

Ion 75.00 (74.70 to 75.70): VV013876.D (-1847) (-)

Ion 77.00 (76.70 to 77.70): VV013876.D (-1847) (-)

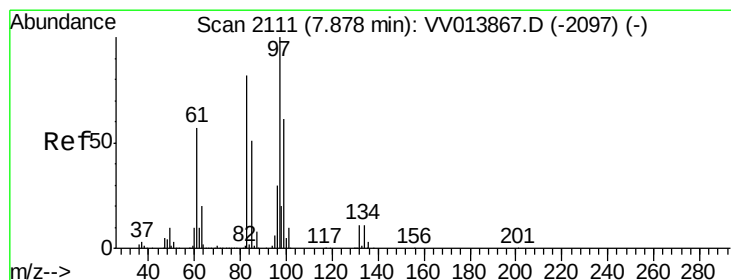
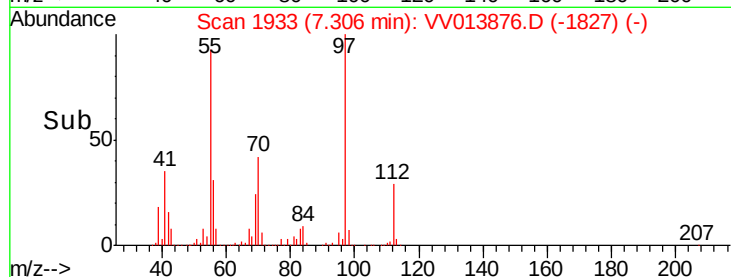
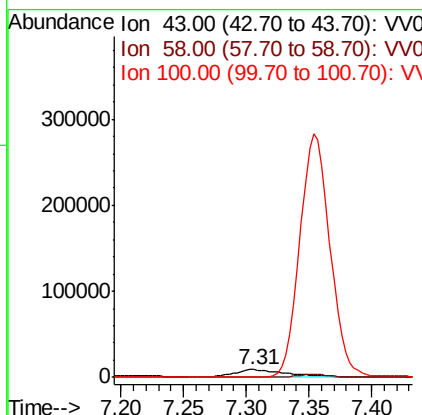
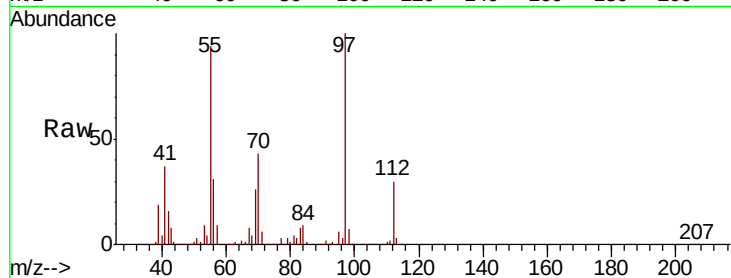
Time-->



#40
 4-Methyl-2-pentanone
 Concen: 4.366 ug/L
 RT: 7.31 min Scan# 1933
 Delta R.T. 0.04 min
 Lab File: VV013876.D
 Acq: 02 Dec 2019 17:12

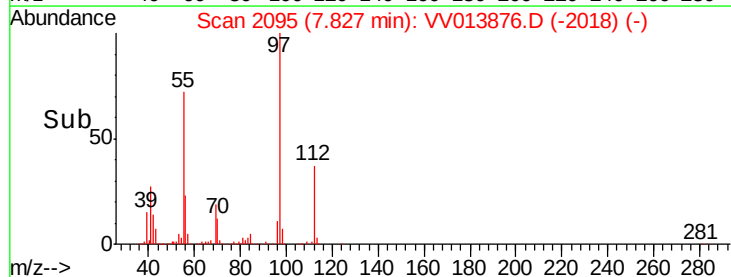
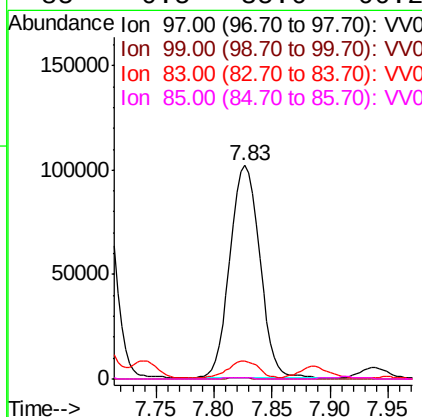
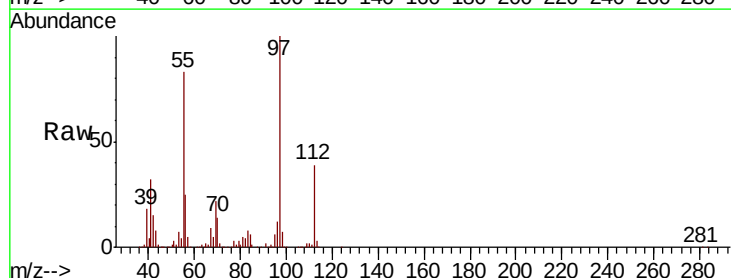
Instrument :
 MSVOA_V
 ClientSampleId :

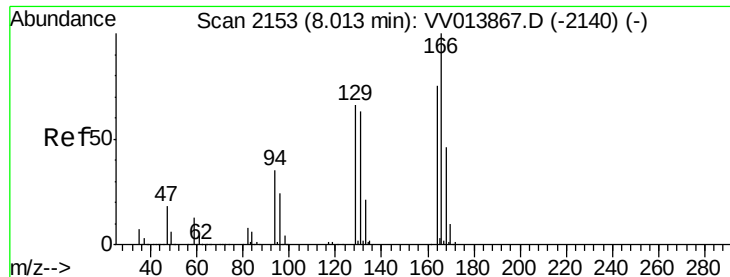
Tot Ion: 43 Resp: 25614
 Ion Ratio Lower Upper
 43 100
 58 0.6 31.9 47.9#
 100 0.6 13.7 20.5#



#45
 1,1,2-Trichloroethane
 Concen: 40.748 ug/L
 RT: 7.83 min Scan# 2095
 Delta R.T. -0.05 min
 Lab File: VV013876.D
 Acq: 02 Dec 2019 17:12

Tgt Ion: 97 Resp: 182493
 Ion Ratio Lower Upper
 97 100
 99 0.4 43.0 80.0#
 83 8.3 57.5 106.9#
 85 0.5 35.6 66.2#





#46

Tetrachloroethene

Concen: 2.069 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV013876.D

Acq: 02 Dec 2019 17:12

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 9333

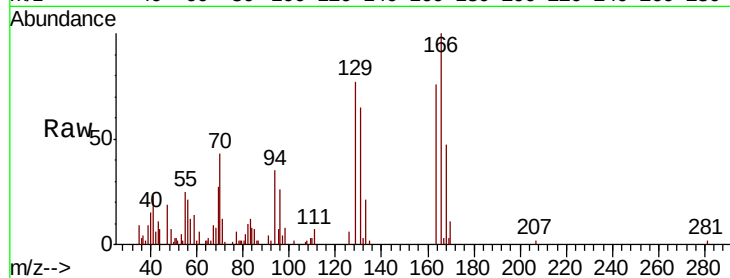
Ion Ratio Lower Upper

164 100

129 101.9 61.7 114.7

131 85.9 58.4 108.6

166 131.7 93.4 173.6

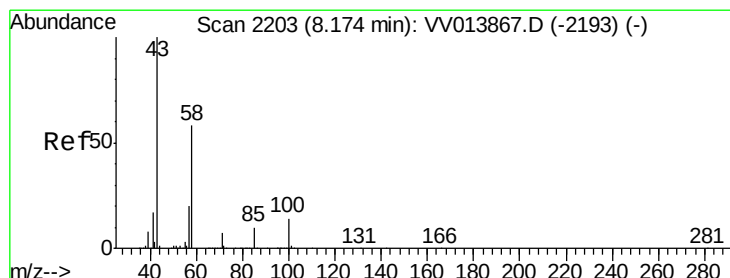
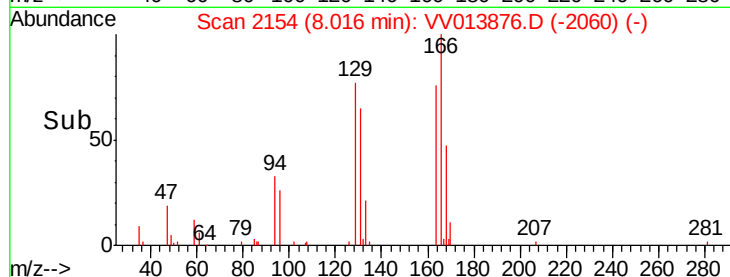
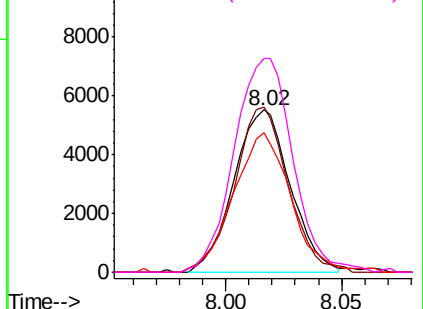


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 5.481 ug/L

RT: 8.13 min Scan# 2188

Delta R.T. -0.05 min

Lab File: VV013876.D

Acq: 02 Dec 2019 17:12

Tgt Ion: 43 Resp: 25724

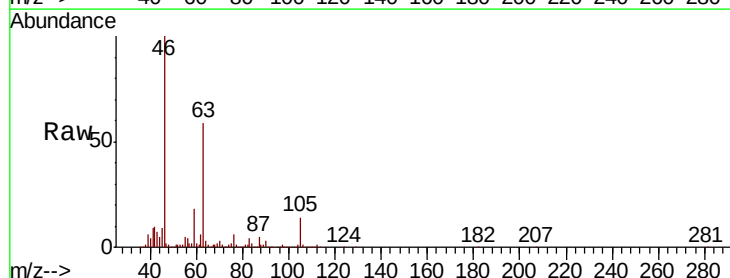
Ion Ratio Lower Upper

43 100

58 31.2 48.4 72.6#

57 34.6 16.6 24.8#

100 0.8 11.9 17.9#

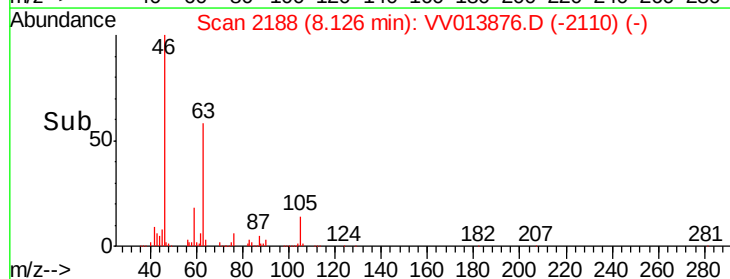
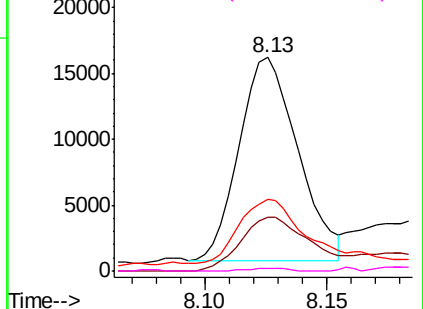


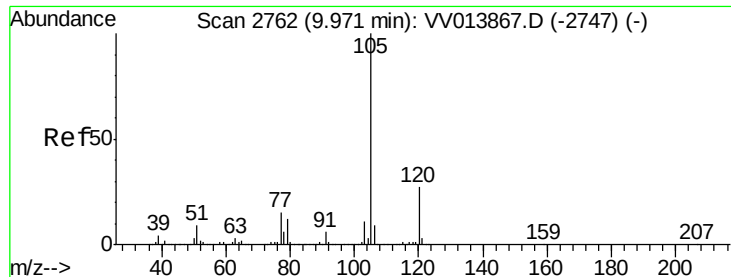
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0

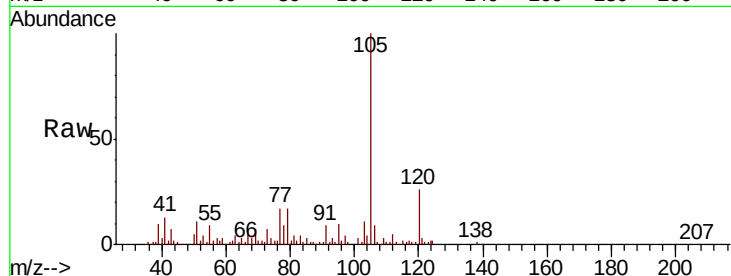




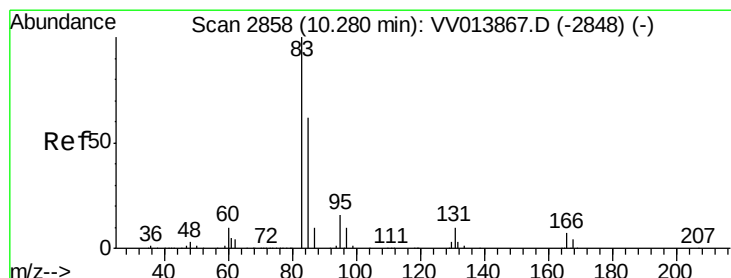
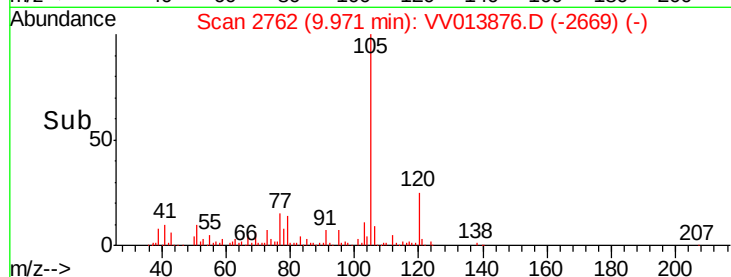
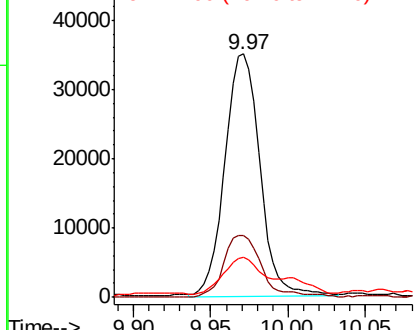
#56
Isopropylbenzene
Concen: 2.555 ug/L
RT: 9.97 min Scan# 2762
Delta R.T. 0.00 min
Lab File: VV013876.D
Acq: 02 Dec 2019 17:12

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.3	21.4	32.2
77	17.3	12.0	18.0

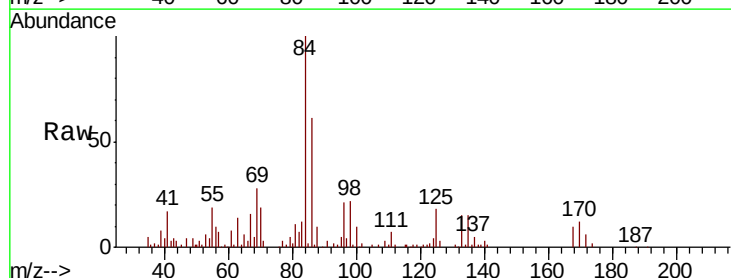


Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): V

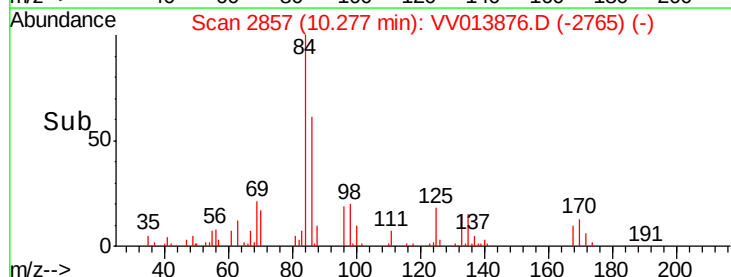
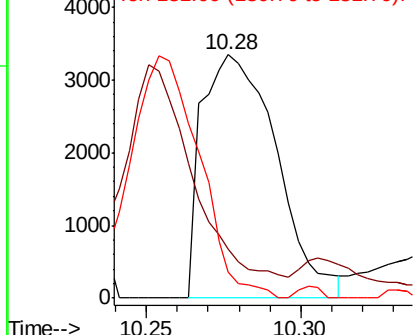


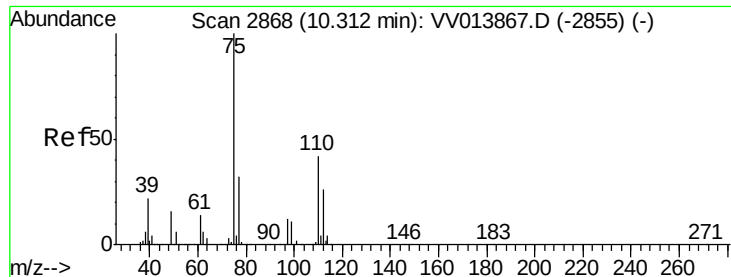
#58
1,1,2,2-Tetrachloroethane
Concen: 0.770 ug/L
RT: 10.28 min Scan# 2857
Delta R.T. -0.00 min
Lab File: VV013876.D
Acq: 02 Dec 2019 17:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	20.3	44.1	81.9#
131	10.6	8.8	13.2



Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 85.00 (84.70 to 85.70): VV0
Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 5.126 ug/L

RT: 11.29 min Scan# 3172

Delta R.T. 0.98 min

Lab File: VV013876.D

Acq: 02 Dec 2019 17:12

Instrument :

MSVOA_V

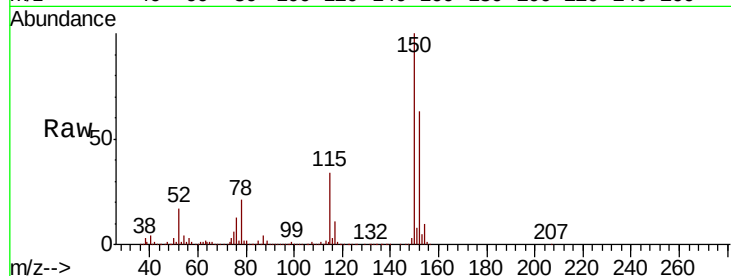
ClientSampleId :

Tot Ion: 75 Resp: 31297

Ion Ratio Lower Upper

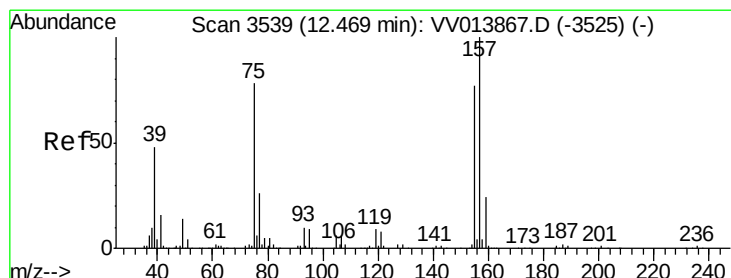
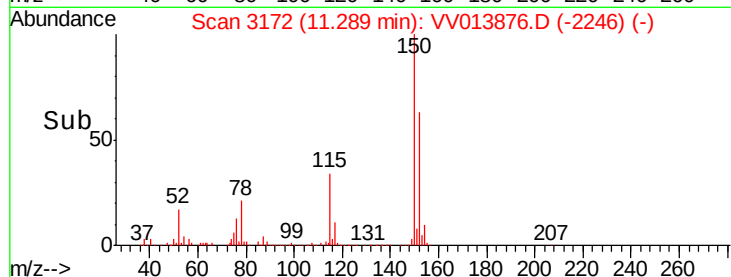
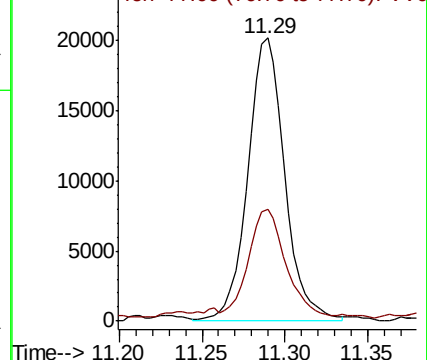
75 100

77 37.0 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#66

1,2-Dibromo-3-chloropropane

Concen: 1.318 ug/L

RT: 12.59 min Scan# 3576

Delta R.T. 0.12 min

Lab File: VV013876.D

Acq: 02 Dec 2019 17:12

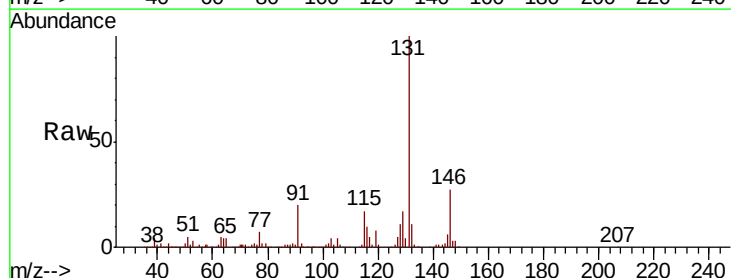
Tgt Ion: 75 Resp: 1976

Ion Ratio Lower Upper

75 100

155 0.0 78.6 117.8#

157 0.0 102.6 153.8#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

