

Data File : VU030374.D
Acq On : 24 Mar 2019 16:37
Operator : JC/SP
Sample : K2016-08
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0985

Quant Time: Mar 25 03:25:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 25 03:20:51 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	412481	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	410124	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	211499	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	136381	41.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.16%
7) Chloroethane-d5	1.68	69	115210	43.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.58%
11) 1,1-Dichloroethene-d2	2.27	63	204280	32.44	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	64.88%
21) 2-Butanone-d5	4.17	46	280064	89.75	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.75%
24) Chloroform-d	4.65	84	296468	51.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.66%
26) 1,2-Dichloroethane-d4	5.31	65	172845	46.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.36%
32) Benzene-d6	5.34	84	537152	45.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.34%
36) 1,2-Dichloropropane-d6	6.33	67	190181	47.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.52%
41) Toluene-d8	7.56	98	471432	44.63	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.26%
43) trans-1,3-Dichloropropene-	7.85	79	77830	41.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.26%
47) 2-Hexanone-d5	8.31	63	190425	87.33	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	87.33%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	254417	44.18	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	88.36%
64) 1,2-Dichlorobenzene-d4	11.87	152	202927	47.89	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.78%

Target Compounds

						Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	1718	0.571	ug/L #	21
12) 1,1-Dichloroethene	2.28	96	5071	1.718	ug/L #	1
13) Acetone	2.32	43	17640	5.590	ug/L	99
25) Chloroform	4.67	83	962355	159.343	ug/L	98
27) 1,2-Dichloroethane	5.40	62	347387	73.301	ug/L #	75
29) Cyclohexane	5.00	56	3946	0.636	ug/L #	81
31) Carbon tetrachloride	5.13	117	45431	10.673	ug/L	96
34) Trichloroethene	6.19	95	3731	1.087	ug/L	91
38) Bromodichloromethane	6.76	83	7050	1.498	ug/L	99
39) cis-1,3-Dichloropropene	7.22	75	4383	0.770	ug/L #	60
42) Toluene	7.64	91	7155	0.494	ug/L	93
44) trans-1,3-Dichloropropene	7.85	75	3163	0.631	ug/L	98
46) Tetrachloroethene	8.22	164	1399	0.584	ug/L	98
48) 2-Hexanone	8.31	43	23255	4.264	ug/L #	73
59) 1,2,3-Trichloropropane	10.45	75	2250	0.467	ug/L #	1
61) Bromoform	9.96	173	1511	0.537	ug/L #	97
62) 1,3-Dichlorobenzene	11.42	146	5229310	756.053	ug/L	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032419\
Quantitation Report (Not Reviewed)

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,4-Dichlorobenzene	11.42	146	5229310	734.407	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.63	75	15777	10.131	ug/L #	8
67) 1,3,5-Trichlorobenzene	13.50	180	3594091	694.116	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	3594091	798.869	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	1559837	328.338	ug/L	100

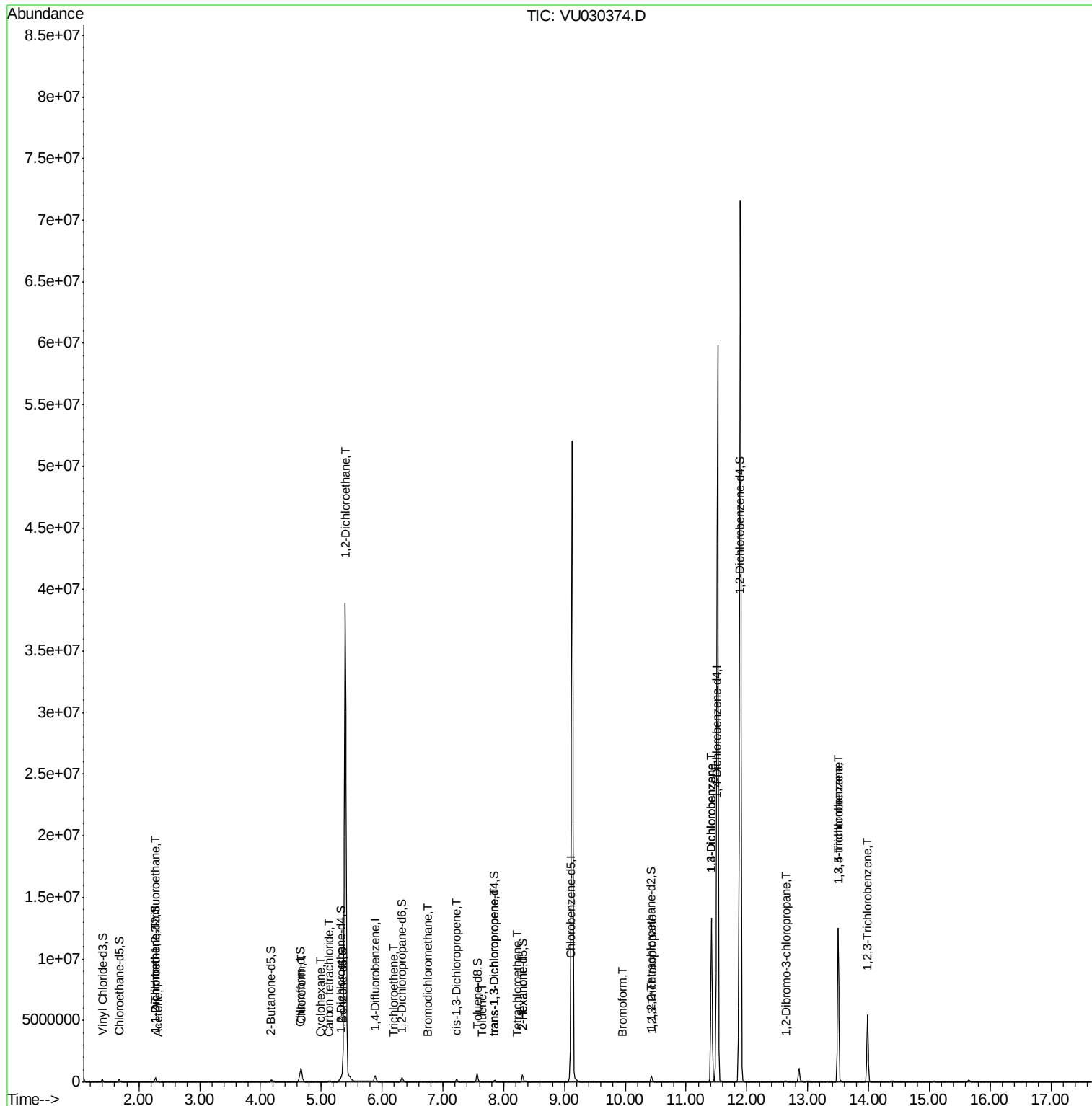
(#) = qualifier out of range (m) = manual integration (+) = signals summed

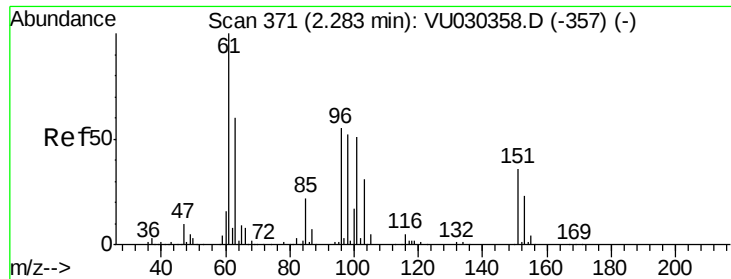
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#10

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

Concen: 0.571 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU030374.D

Acq: 24 Mar 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

C0985

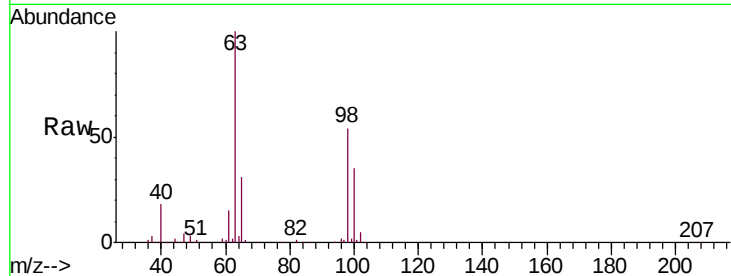
Tgt Ion: 101 Resp: 1718

Ion Ratio Lower Upper

101 100

85 0.0 34.8 52.2#

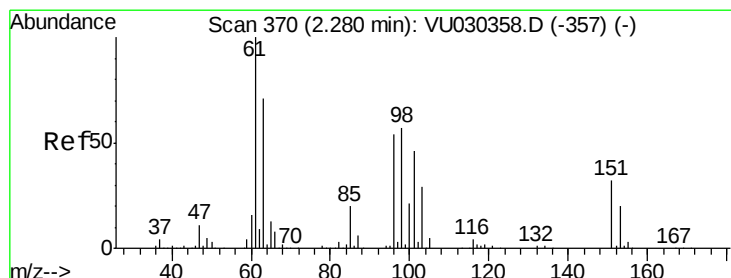
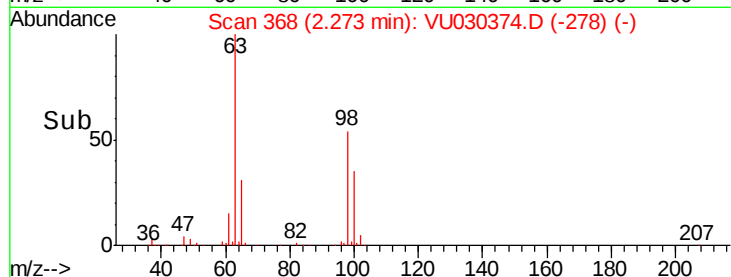
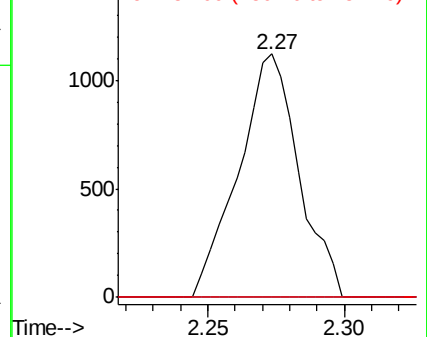
151 0.0 56.6 85.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 1.718 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU030374.D

Acq: 24 Mar 2019 16:37

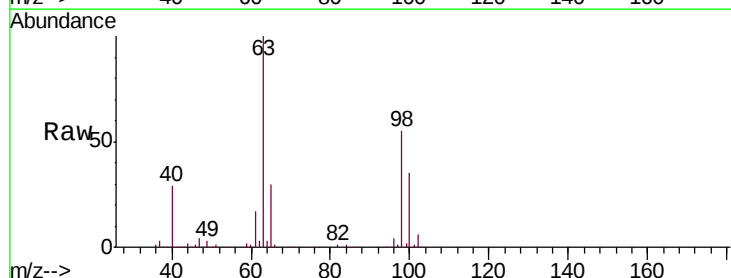
Tgt Ion: 96 Resp: 5071

Ion Ratio Lower Upper

96 100

61 434.1 131.0 243.4#

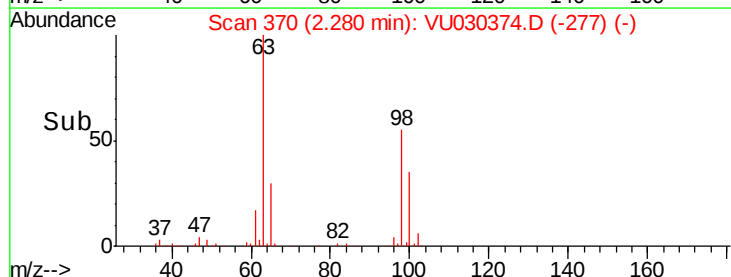
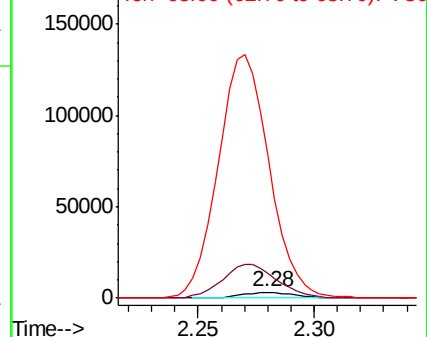
63 2496.6 92.4 171.6#

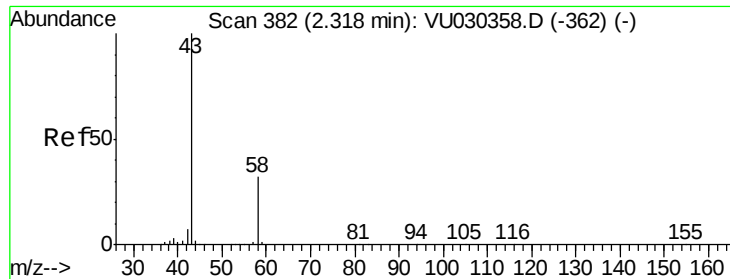


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.590 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030374.D

Acq: 24 Mar 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

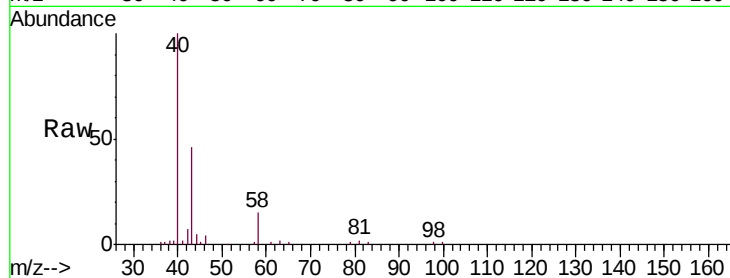
C0985

Tgt Ion: 43 Resp: 17640

Ion Ratio Lower Upper

43 100

58 32.0 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU030358.D (-362) (-)

Ion 58.00 (57.70 to 58.70): VU030358.D (-362) (-)

12000

10000

8000

6000

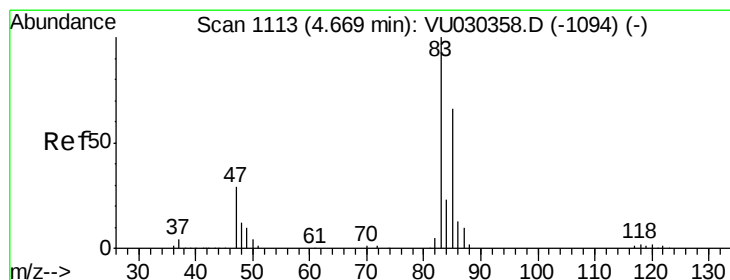
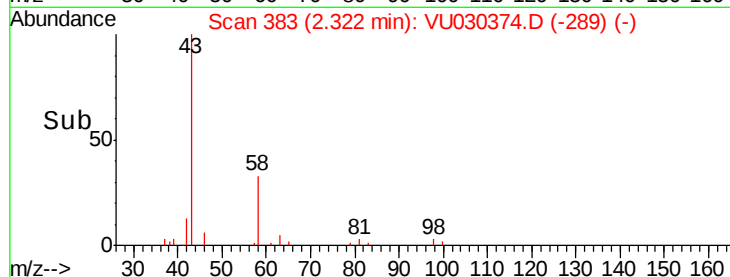
4000

2000

0

2.25 2.30 2.35 2.40

Time-->



#25

Chloroform

Concen: 159.343 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU030374.D

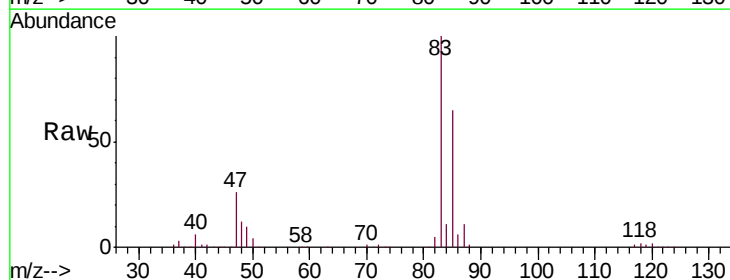
Acq: 24 Mar 2019 16:37

Tgt Ion: 83 Resp: 962355

Ion Ratio Lower Upper

83 100

85 64.7 44.4 82.4



Abundance Ion 83.00 (82.70 to 83.70): VU030358.D (-1094) (-)

Ion 85.00 (84.70 to 85.70): VU030358.D (-1094) (-)

400000

300000

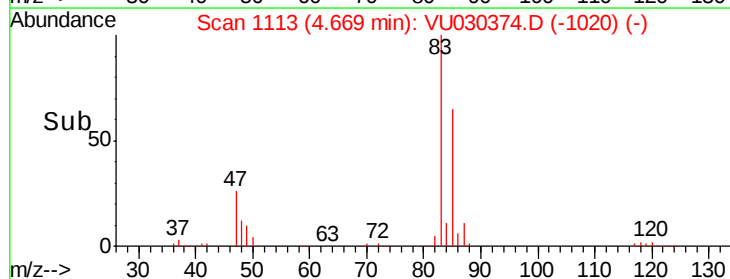
200000

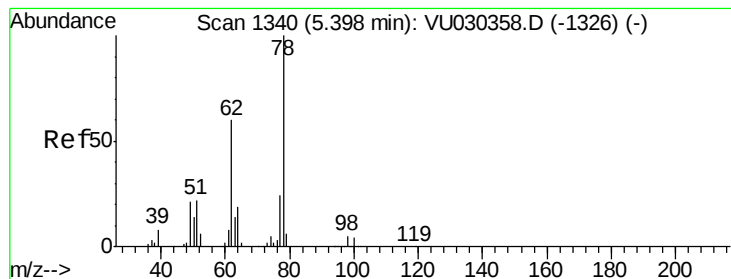
100000

0

4.60 4.65 4.70 4.75 4.80

Time-->





#27

1,2-Dichloroethane

Concen: 73.301 ug/L

RT: 5.40 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VU030374.D

Acq: 24 Mar 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

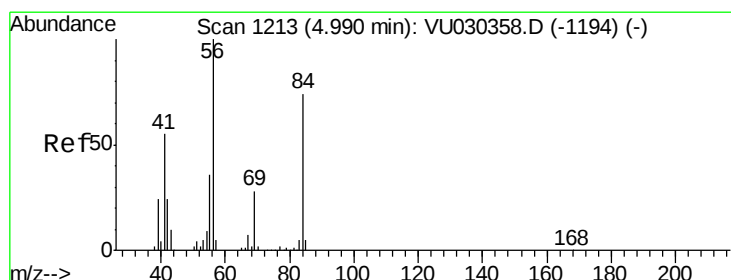
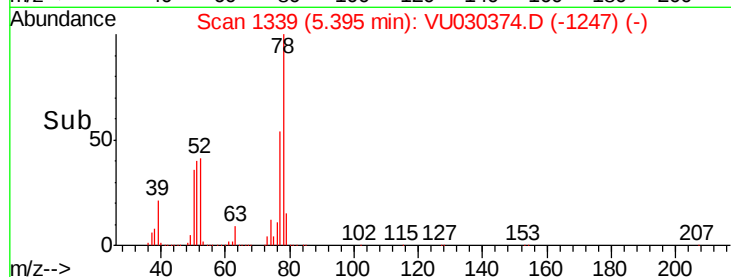
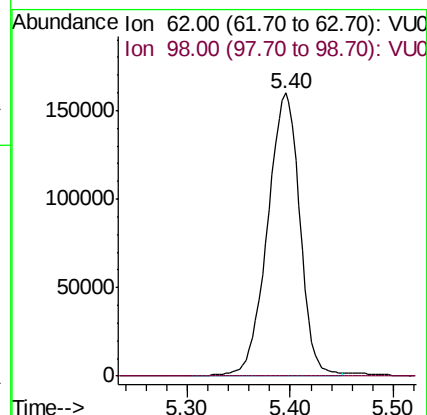
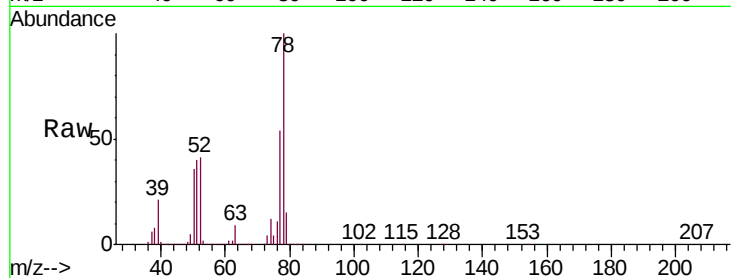
C0985

Tgt Ion: 62 Resp: 347387

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#



#29

Cyclohexane

Concen: 0.636 ug/L

RT: 5.00 min Scan# 1215

Delta R.T. 0.01 min

Lab File: VU030374.D

Acq: 24 Mar 2019 16:37

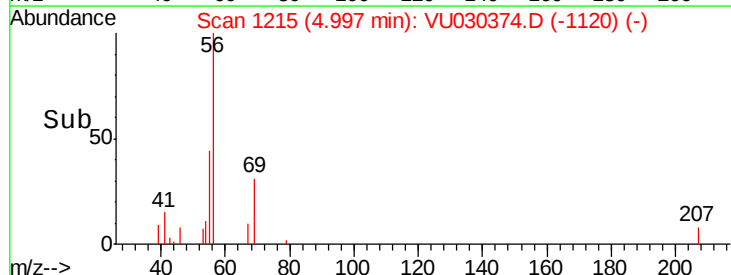
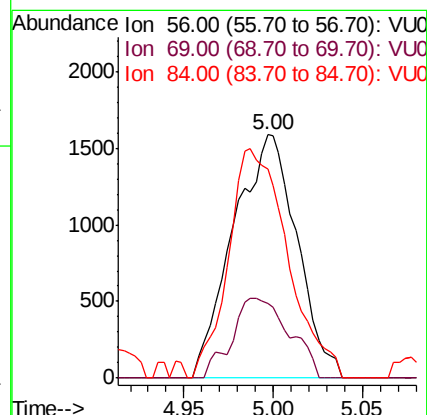
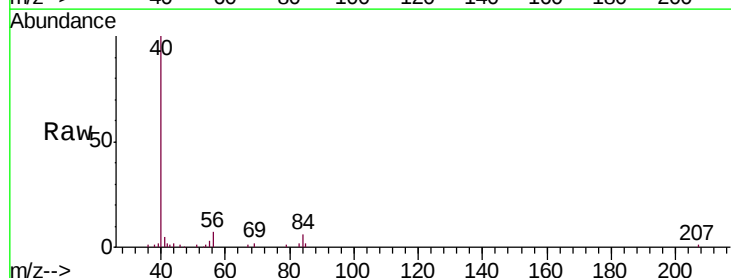
Tgt Ion: 56 Resp: 3946

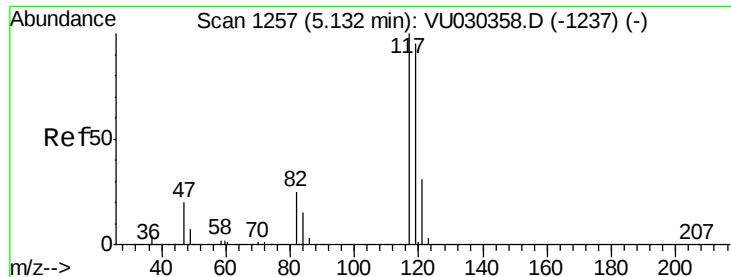
Ion Ratio Lower Upper

56 100

69 16.4 22.9 34.3#

84 88.0 58.9 88.3





#31

Carbon tetrachloride

Concen: 10.673 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU030374.D

Acq: 24 Mar 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

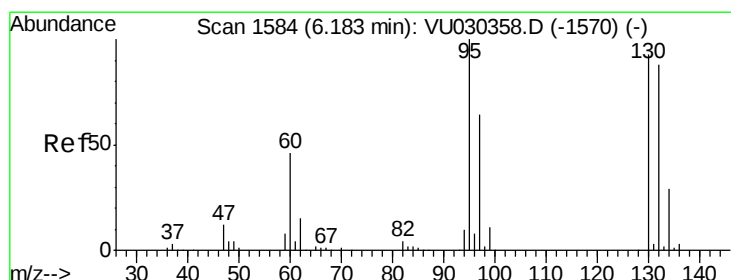
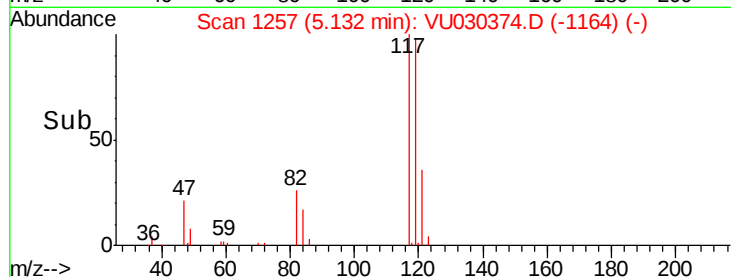
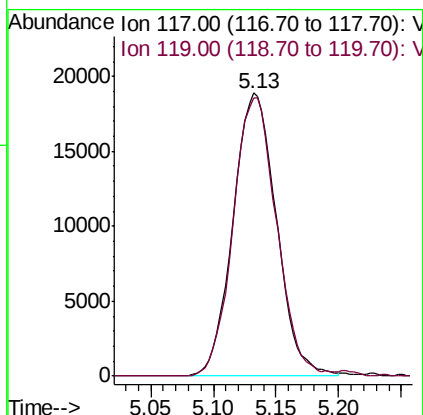
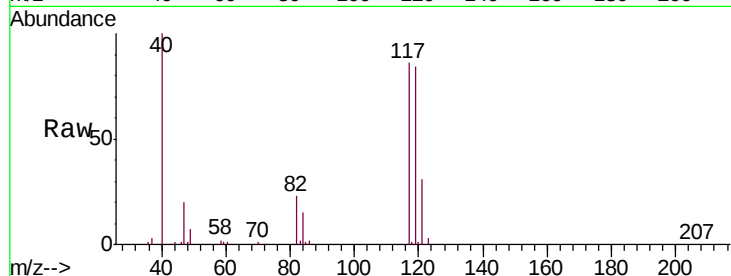
C0985

Tgt Ion:117 Resp: 45431

Ion Ratio Lower Upper

117 100

119 98.3 75.4 113.2



#34

Trichloroethene

Concen: 1.087 ug/L

RT: 6.19 min Scan# 1585

Delta R.T. 0.00 min

Lab File: VU030374.D

Acq: 24 Mar 2019 16:37

Tgt Ion: 95 Resp: 3731

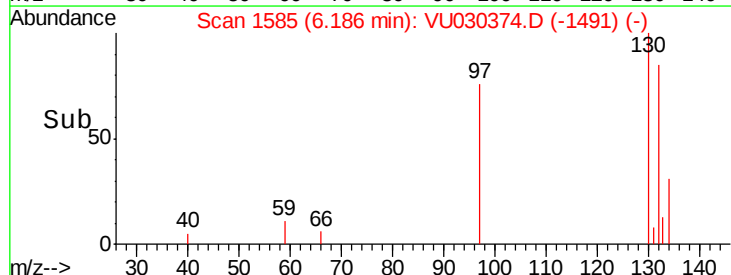
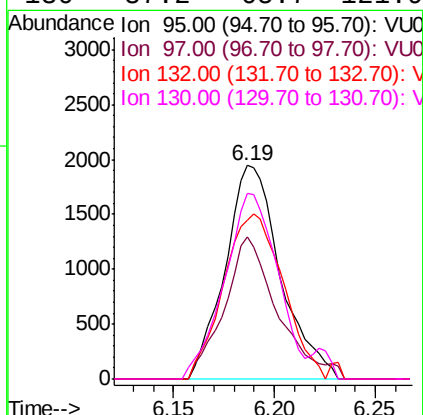
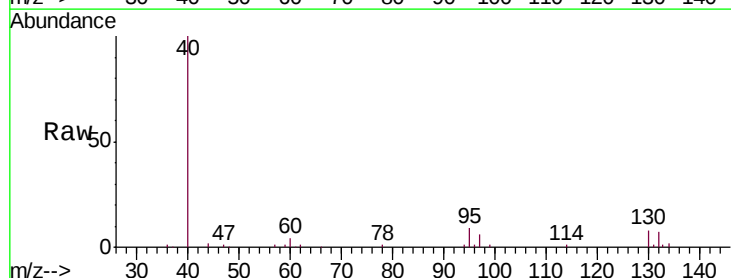
Ion Ratio Lower Upper

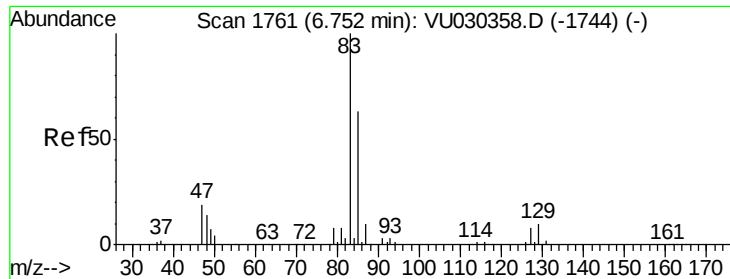
95 100

97 66.4 45.7 84.9

132 74.2 63.8 118.4

130 87.2 65.7 121.9





#38

Bromodichloromethane

Concen: 1.498 ug/L

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU030374.D

Acq: 24 Mar 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

C0985

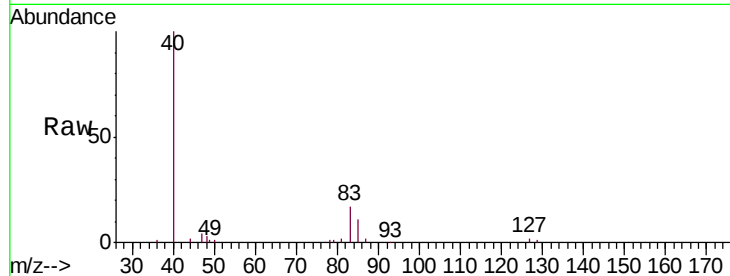
Tgt Ion: 83 Resp: 7050

Ion Ratio Lower Upper

83 100

85 64.7 45.0 83.6

127 9.3 6.6 10.0

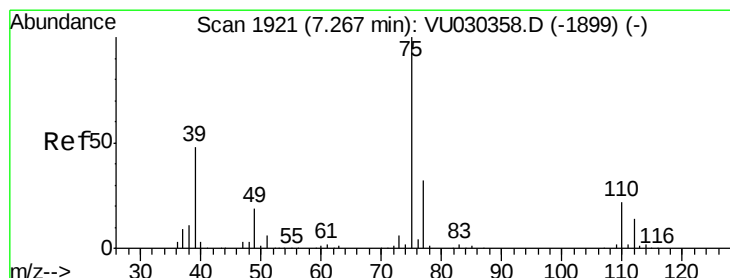
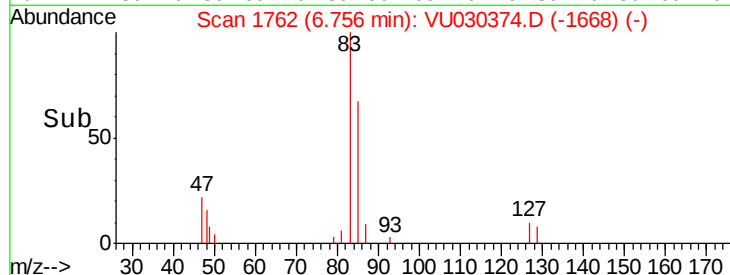


Abundance Ion 83.00 (82.70 to 83.70): VU030358.D (-1744) (-)

Ion 85.00 (84.70 to 85.70): VU030358.D (-1744) (-)

Ion 127.00 (126.70 to 127.70): VU030358.D (-1744) (-)

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.770 ug/L

RT: 7.22 min Scan# 1908

Delta R.T. -0.04 min

Lab File: VU030374.D

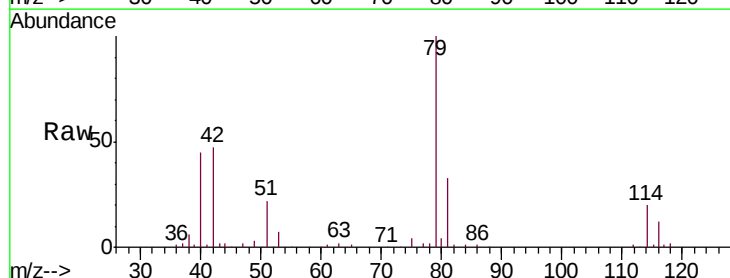
Acq: 24 Mar 2019 16:37

Tgt Ion: 75 Resp: 4383

Ion Ratio Lower Upper

75 100

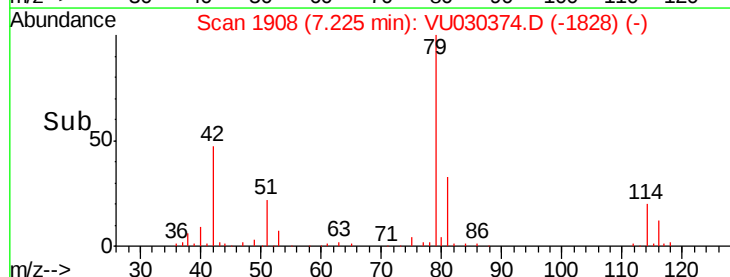
77 53.3 21.8 40.6#

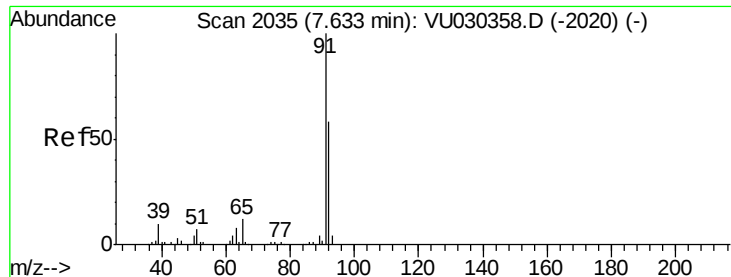


Abundance Ion 75.00 (74.70 to 75.70): VU030358.D (-1899) (-)

Ion 77.00 (76.70 to 77.70): VU030358.D (-1899) (-)

Time-->





#42

Toluene

Concen: 0.494 ug/L

RT: 7.64 min Scan# 2037

Delta R.T. 0.01 min

Lab File: VU030374.D

Acq: 24 Mar 2019 16:37

Instrument :

MSVOA_U

ClientSampleId :

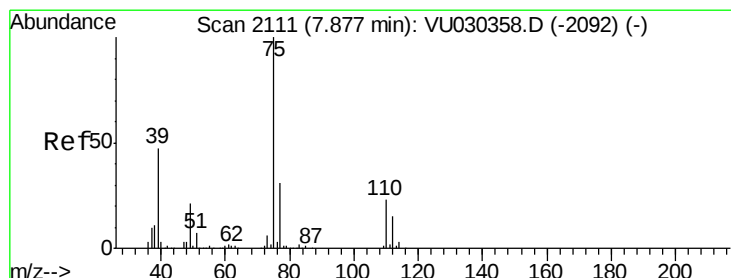
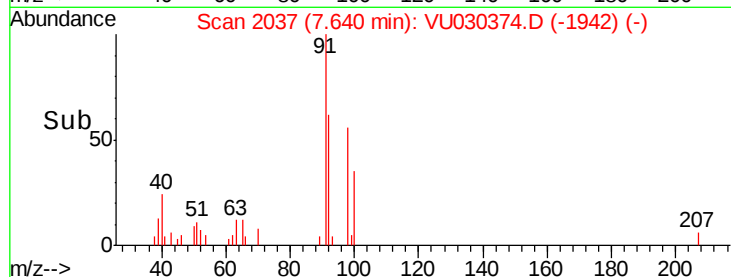
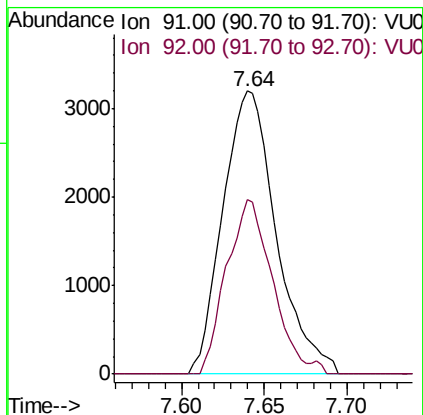
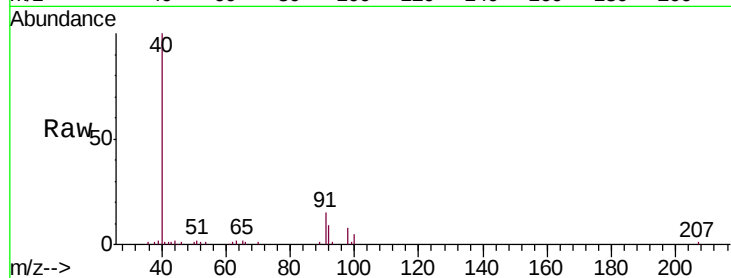
C0985

Tgt Ion: 91 Resp: 7155

Ion Ratio Lower Upper

91 100

92 61.7 39.7 73.7



#44

trans-1,3-Dichloropropene

Concen: 0.631 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU030374.D

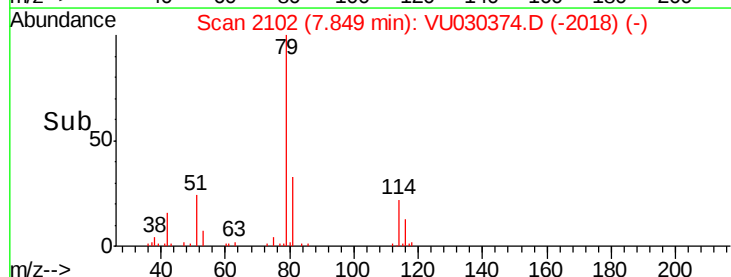
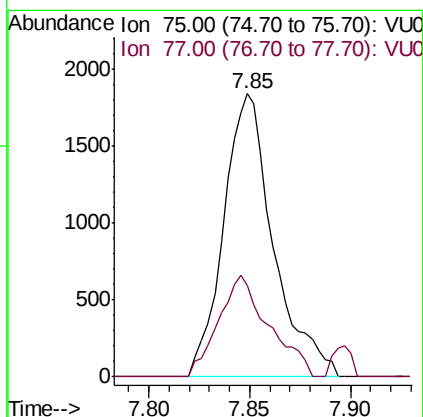
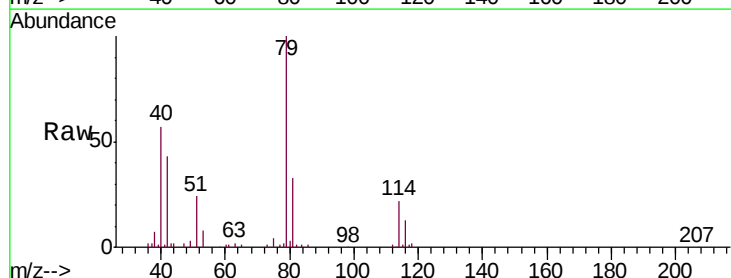
Acq: 24 Mar 2019 16:37

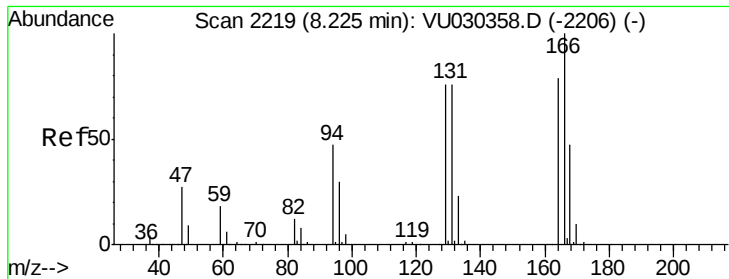
Tgt Ion: 75 Resp: 3163

Ion Ratio Lower Upper

75 100

77 32.5 22.0 40.8

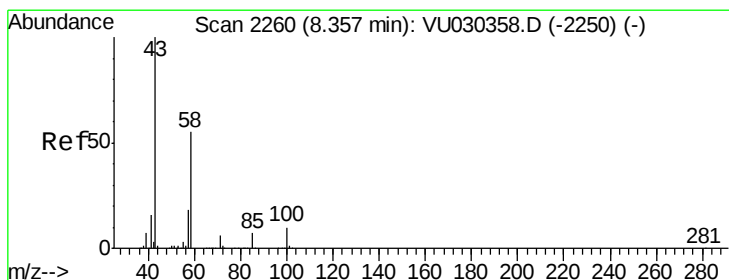
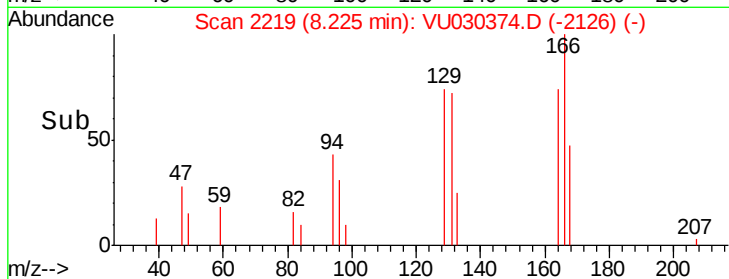
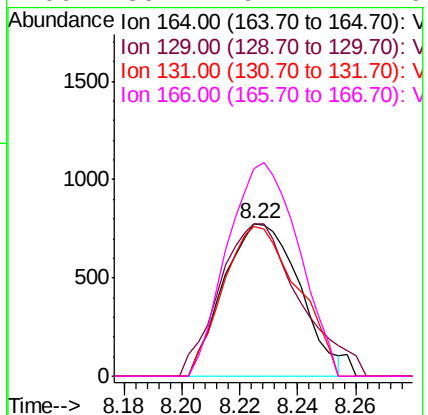
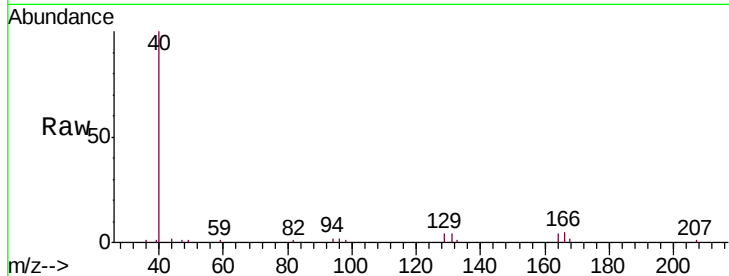




#46
Tetrachloroethene
Concen: 0.584 ug/L
RT: 8.22 min Scan# 2219
Delta R.T. 0.00 min
Lab File: VU030374.D
Acq: 24 Mar 2019 16:37

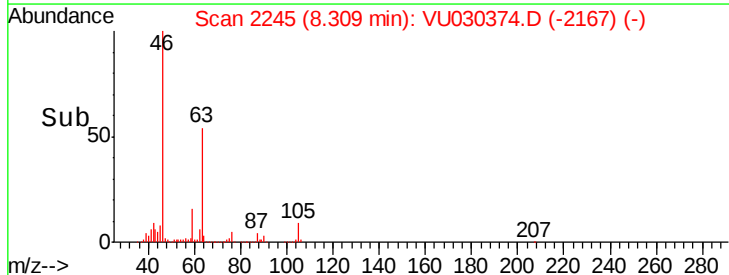
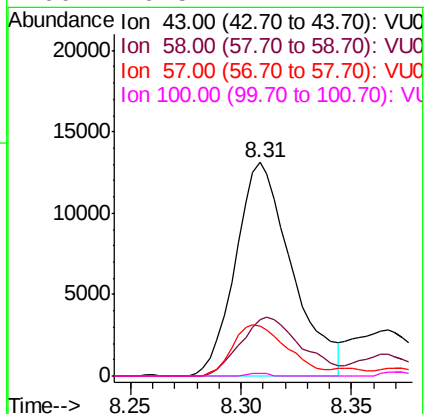
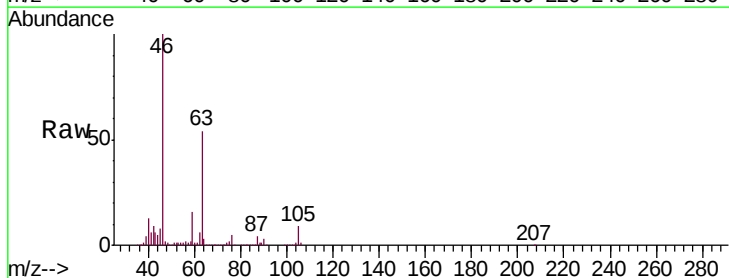
Instrument :
MSVOA_U
ClientSampleId :
C0985

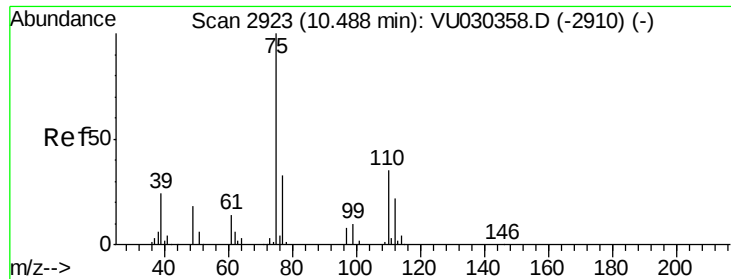
Tgt Ion:164 Resp: 1399
Ion Ratio Lower Upper
164 100
129 100.0 68.1 126.5
131 98.1 67.7 125.7
166 135.4 92.4 171.6



#48
2-Hexanone
Concen: 4.264 ug/L
RT: 8.31 min Scan# 2245
Delta R.T. -0.05 min
Lab File: VU030374.D
Acq: 24 Mar 2019 16:37

Tgt Ion: 43 Resp: 23255
Ion Ratio Lower Upper
43 100
58 29.7 42.5 63.7#
57 23.3 15.0 22.6#
100 0.5 7.4 11.2#

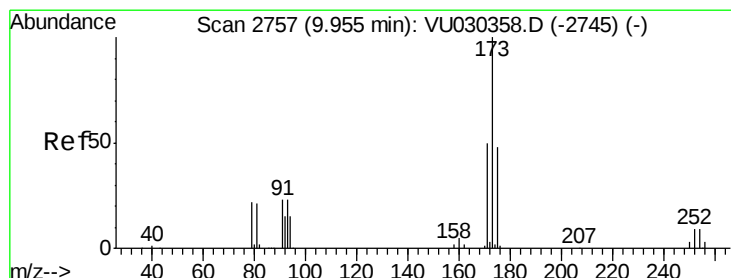
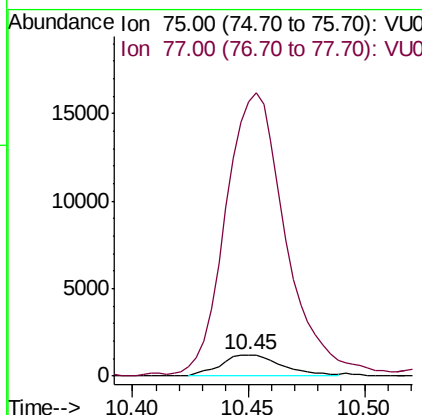
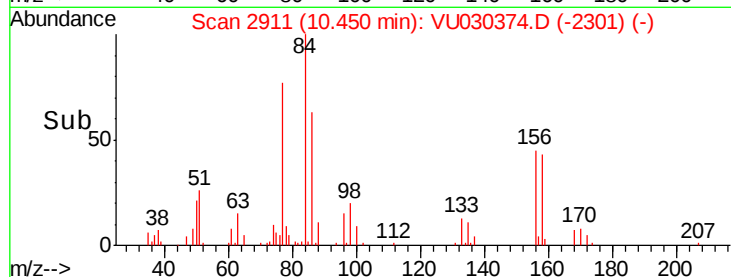
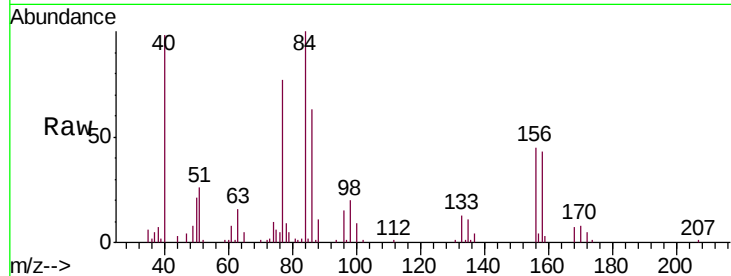




#59
 1,2,3-Trichloropropane
 Concen: 0.467 ug/L
 RT: 10.45 min Scan# 2911
 Delta R.T. -0.04 min
 Lab File: VU030374.D
 Acq: 24 Mar 2019 16:37

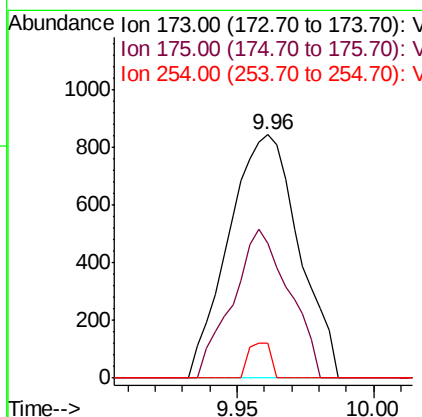
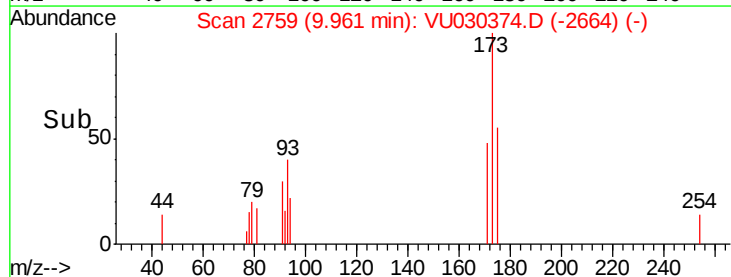
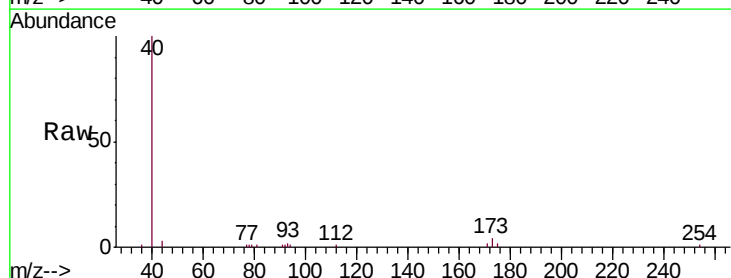
Instrument :
 MSVOA_U
 ClientSampleId :
 C0985

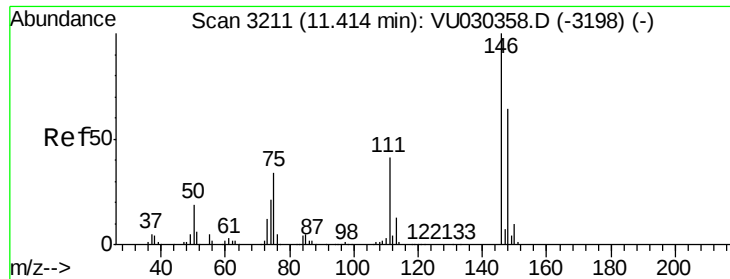
Tgt Ion: 75 Resp: 2250
 Ion Ratio Lower Upper
 75 100
 77 1283.5 25.4 38.2#



#61
 Bromoform
 Concen: 0.537 ug/L
 RT: 9.96 min Scan# 2759
 Delta R.T. 0.01 min
 Lab File: VU030374.D
 Acq: 24 Mar 2019 16:37

Tgt Ion: 173 Resp: 1511
 Ion Ratio Lower Upper
 173 100
 175 49.1 38.5 57.7
 254 4.4 6.8 10.2#





#62

1,3-Dichlorobenzene

Concen: 756.053 ug/L

RT: 11.42 min Scan# 3212

Delta R.T. 0.00 min

Lab File: VU030374.D

Acq: 24 Mar 2019 16:37

Instrument :

MSVOA_U

ClientSampled :

C0985

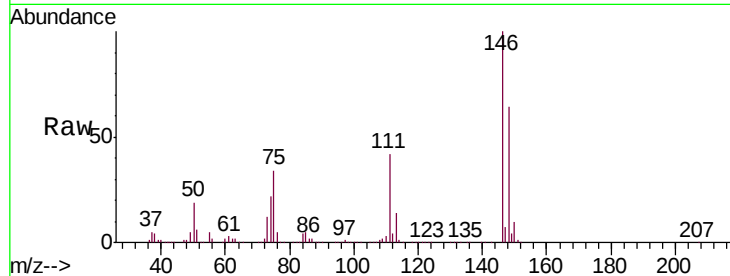
Tgt Ion:146 Resp: 5229310

Ion Ratio Lower Upper

146 100

111 42.3 29.2 54.2

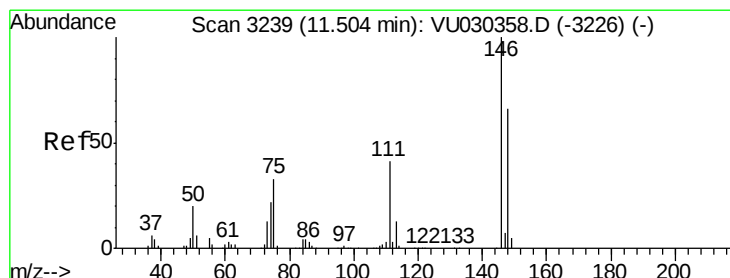
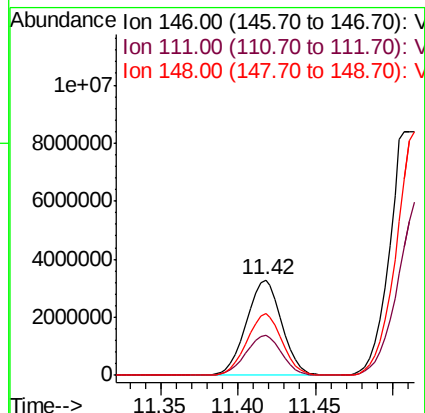
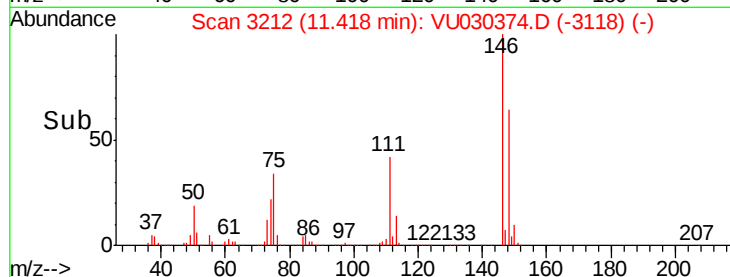
148 64.4 44.4 82.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 734.407 ug/L

RT: 11.42 min Scan# 3212

Delta R.T. -0.09 min

Lab File: VU030374.D

Acq: 24 Mar 2019 16:37

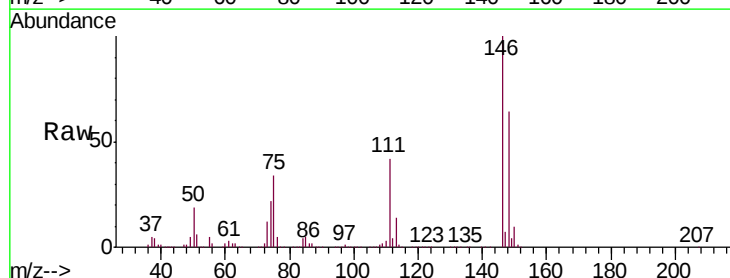
Tgt Ion:146 Resp: 5229310

Ion Ratio Lower Upper

146 100

111 42.3 28.7 53.3

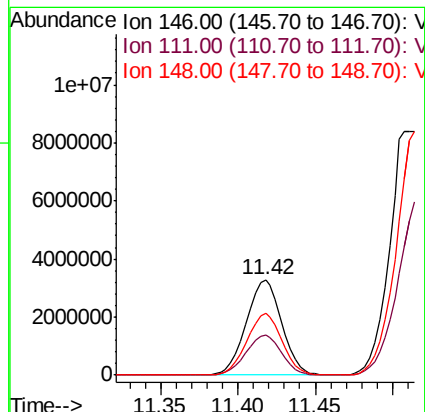
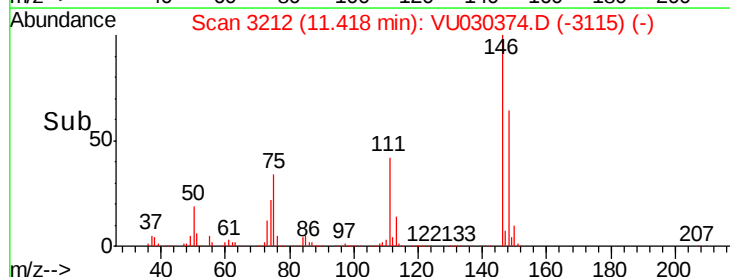
148 64.4 44.3 82.3

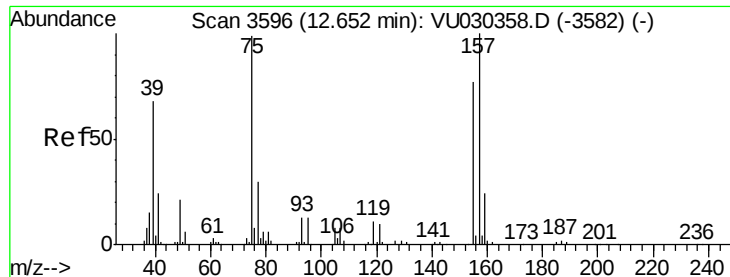


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

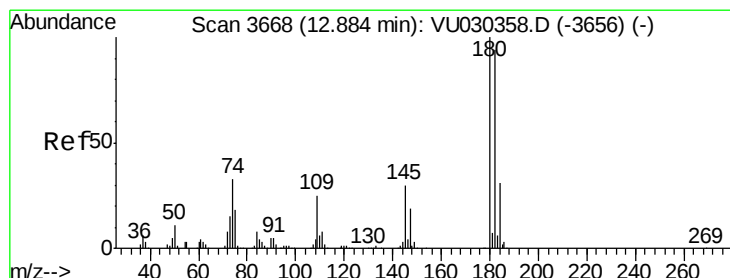
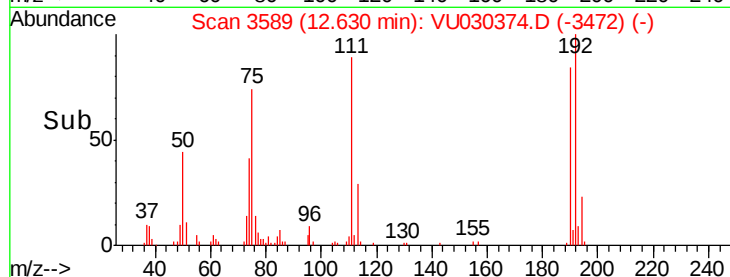
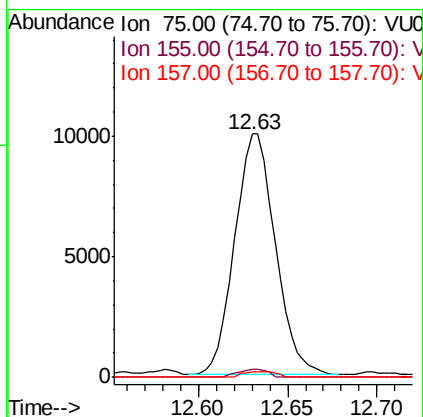
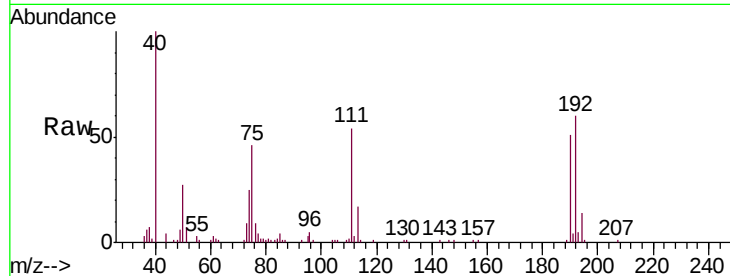




#66
 1,2-Dibromo-3-chloropropane
 Concen: 10.131 ug/L
 RT: 12.63 min Scan# 3589
 Delta R.T. -0.02 min
 Lab File: VU030374.D
 Acq: 24 Mar 2019 16:37

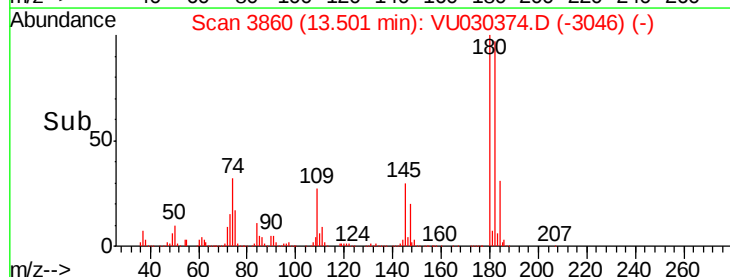
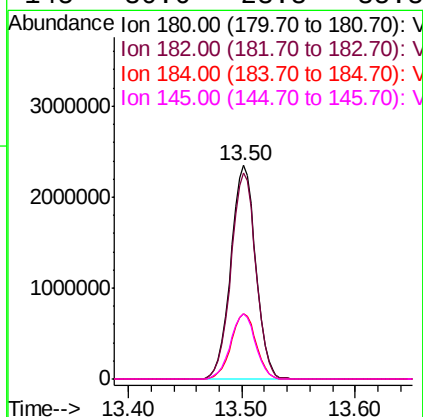
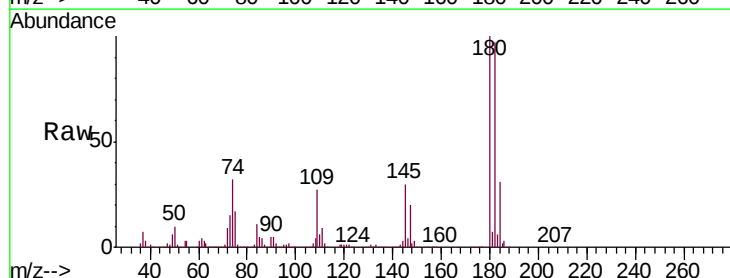
Instrument :
 MSVOA_U
 ClientSampleId :
 C0985

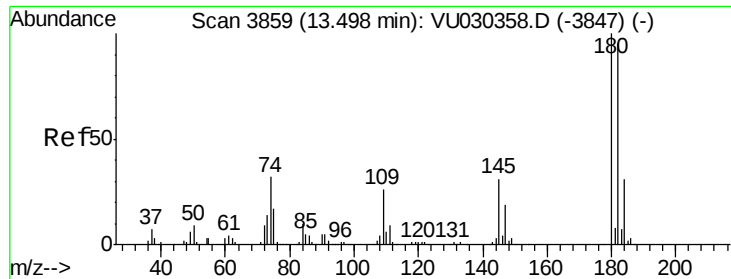
Tgt Ion: 75 Resp: 15777
 Ion Ratio Lower Upper
 75 100
 155 3.2 61.8 92.6#
 157 2.3 80.2 120.4#



#67
 1,3,5-Trichlorobenzene
 Concen: 694.116 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.62 min
 Lab File: VU030374.D
 Acq: 24 Mar 2019 16:37

Tgt Ion: 180 Resp: 3594091
 Ion Ratio Lower Upper
 180 100
 182 96.4 75.9 113.9
 184 30.8 24.1 36.1
 145 30.6 23.8 35.8

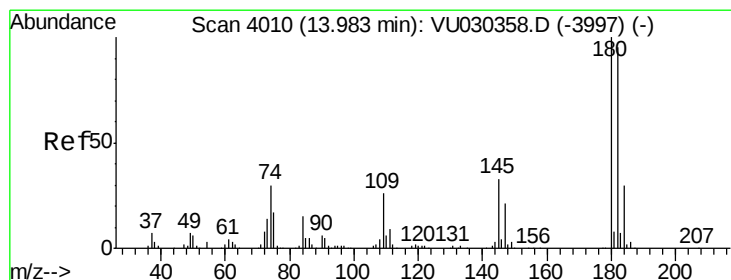
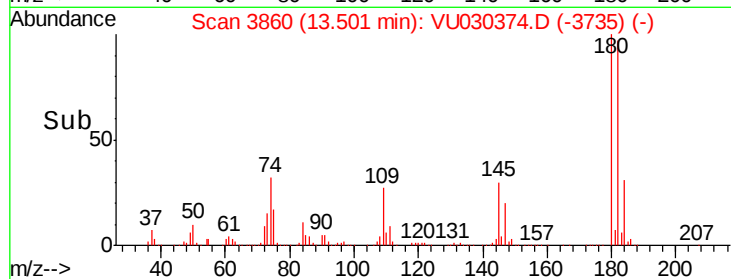
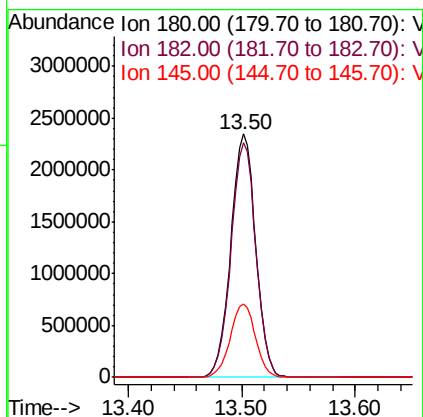
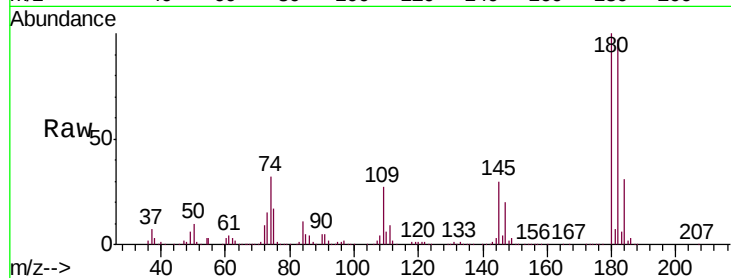




#68
 1,2,4-trichlorobenzene
 Concen: 798.869 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU030374.D
 Acq: 24 Mar 2019 16:37

Instrument :
 MSVOA_U
 ClientSampleId :
 C0985

Tgt Ion:180 Resp: 3594091
 Ion Ratio Lower Upper
 180 100
 182 96.4 76.1 114.1
 145 30.6 24.5 36.7



#70
 1,2,3-Trichlorobenzene
 Concen: 328.338 ug/L
 RT: 13.98 min Scan# 4010
 Delta R.T. 0.00 min
 Lab File: VU030374.D
 Acq: 24 Mar 2019 16:37

Tgt Ion:180 Resp: 1559837
 Ion Ratio Lower Upper
 180 100
 182 96.8 77.4 116.2
 145 32.7 25.9 38.9

