

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102319\
 Data File : VU035401.D
 Acq On : 23 Oct 2019 11:19
 Operator : JC/SP
 Sample : K5458-07
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 23 17:19:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 23 17:16:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	244660	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	247316	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.85	152	79083	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	64550	4.33	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	86.60%
7) Chloroethane-d5	1.94	69	67411	4.94	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.80%
11) 1,1-Dichloroethene-d2	2.60	63	125799	4.56	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.20%
20) 2-Butanone-d5	4.70	46	231696	54.05	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.10%
24) Chloroform-d	5.11	84	147484	5.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.20%
26) 1,2-Dichloroethane-d4	5.75	65	83059	5.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.00%
32) Benzene-d6	5.77	84	275824	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
36) 1,2-Dichloropropane-d6	6.73	67	97125	5.41	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	108.20%
41) Toluene-d8	7.93	98	234678	4.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.80%
43) trans-1,3-Dichloropropene-	8.21	79	35031	4.02	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.40%
46) 2-Hexanone-d5	8.69	63	174631	45.44	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.88%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	85159	5.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.40%
64) 1,2-Dichlorobenzene-d4	12.22	152	70624	4.90	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.00%

Target Compounds

					Ovalue
3) Chloromethane	1.54	50	2146	0.104	ug/L 100
12) 1,1-Dichloroethene	2.61	96	55420	3.526	ug/L 85
13) Acetone	2.67	43	5511	1.848	ug/L 85
16) Methylene chloride	3.08	84	1782	0.094	ug/L 88
19) 1,1-Dichloroethane	3.92	63	8576	0.280	ug/L 96
22) cis-1,2-Dichloroethene	4.72	96	56975	3.039	ug/L 96
25) Chloroform	5.14	83	9088	0.270	ug/L 95
29) 1,1,1-Trichloroethane	5.37	97	8266	0.285	ug/L 96
31) Carbon tetrachloride	5.57	117	3575	0.137	ug/L 94
34) Trichloroethene	6.58	95	230555	11.785	ug/L 97
35) Methylcyclohexane	6.73	83	22884	0.700	ug/L # 20
39) cis-1,3-Dichloropropene	7.60	75	2276	0.074	ug/L # 48
47) Tetrachloroethene	8.58	164	194946	11.961	ug/L 99
48) 2-Hexanone	8.73	43	12051	1.378	ug/L # 52
49) Dibromochloromethane	8.58	129	177747	10.223	ug/L # 11
59) 1,2,3-Trichloropropane	11.84	75	9941	0.772	ug/L 94

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 23 17:16:19 2019
Response via : Initial Calibration

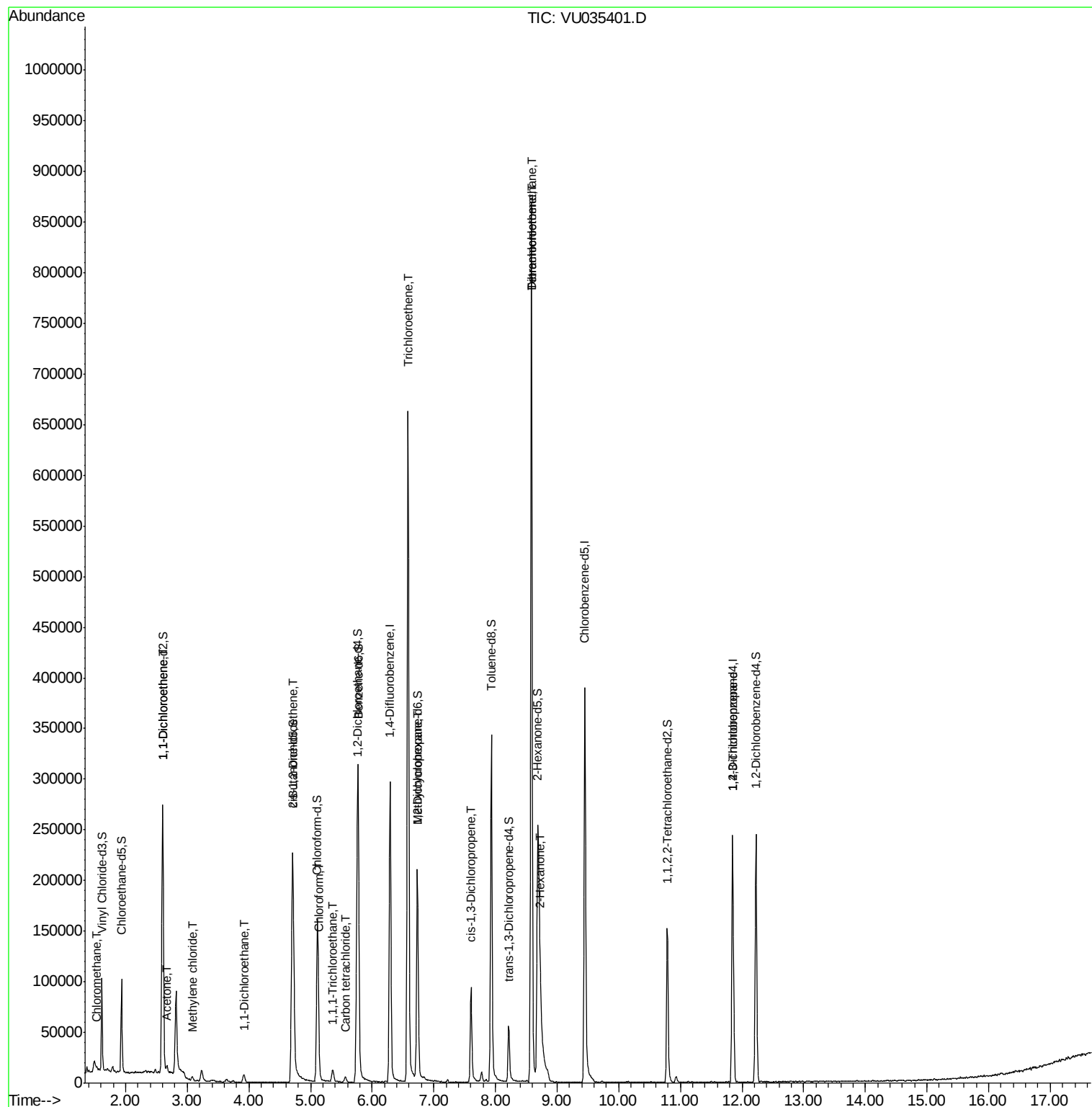
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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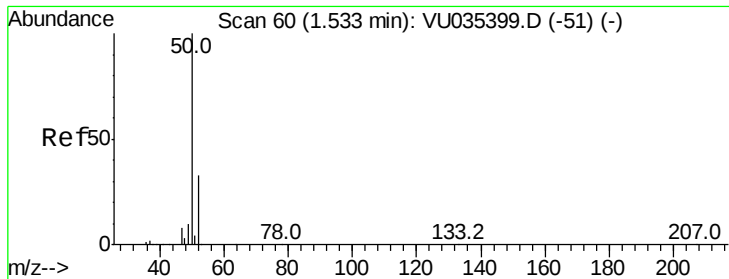
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.104 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU035401.D

Acq: 23 Oct 2019 11:19

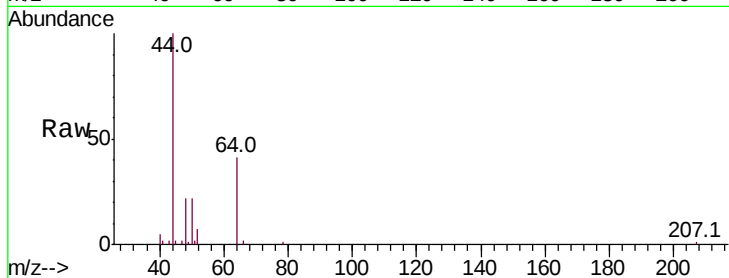
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 50 Resp: 2146

Ion Ratio Lower Upper

50 100

52 33.8 23.5 43.7



Abundance Ion 50.05 (49.75 to 50.75): VU035399.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU035399.D (-51) (-)

1.54

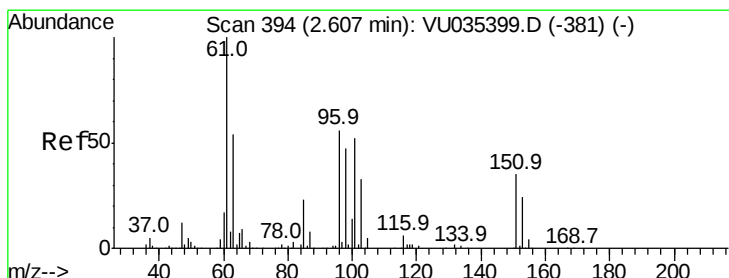
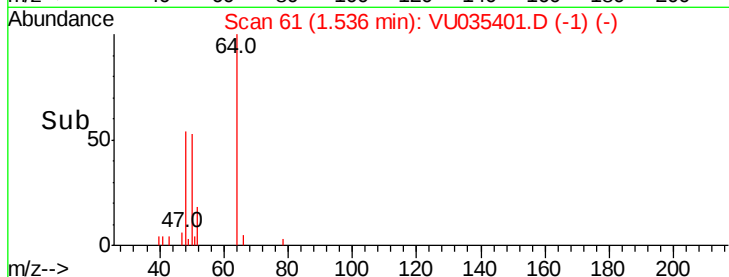
1500

1000

500

0

Time-->



#12

1,1-Dichloroethene

Concen: 3.526 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035401.D

Acq: 23 Oct 2019 11:19

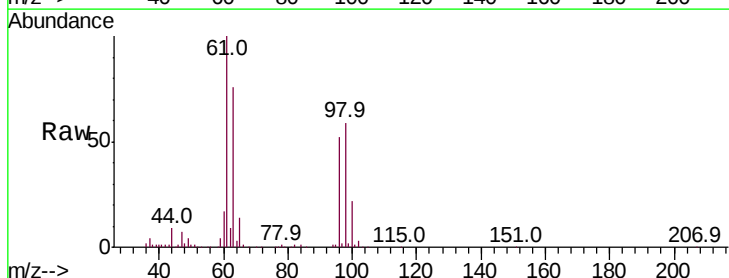
Tgt Ion: 96 Resp: 55420

Ion Ratio Lower Upper

96 100

61 191.0 120.6 224.0

63 144.5 86.8 161.2



Abundance Ion 96.00 (95.70 to 96.70): VU035399.D (-381) (-)

Ion 61.05 (60.75 to 61.75): VU035399.D (-381) (-)

Ion 63.00 (62.70 to 63.70): VU035399.D (-381) (-)

80000

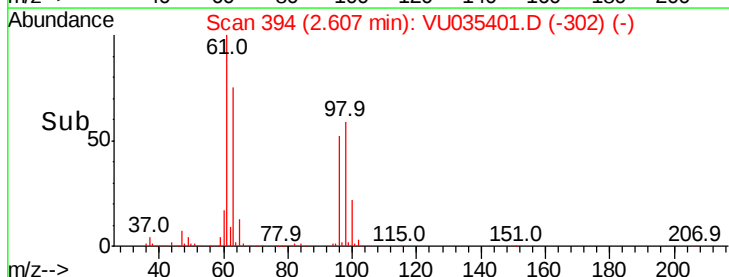
60000

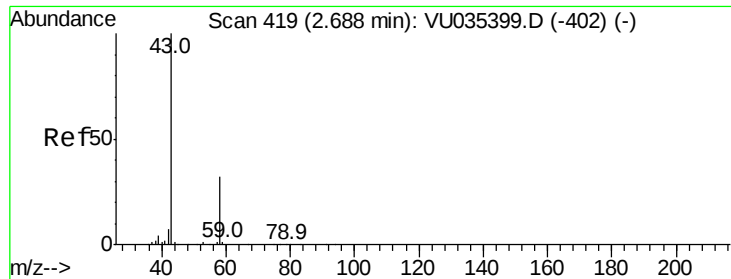
40000

20000

0

Time-->





#13

Acetone

Concen: 1.848 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.00 min

Lab File: VU035401.D

Acq: 23 Oct 2019 11:19

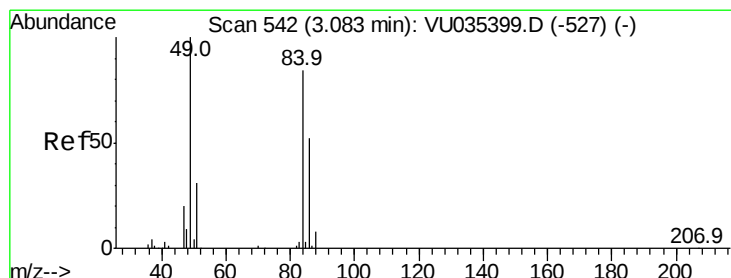
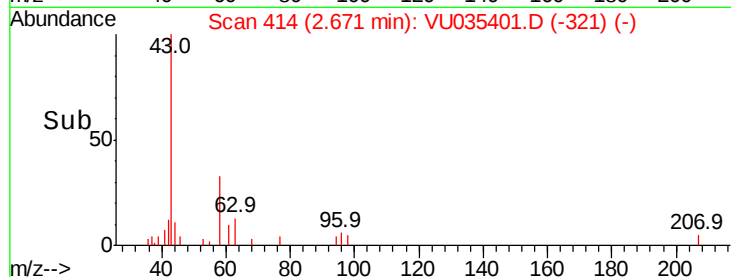
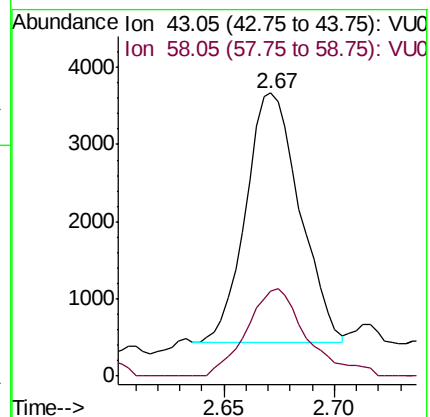
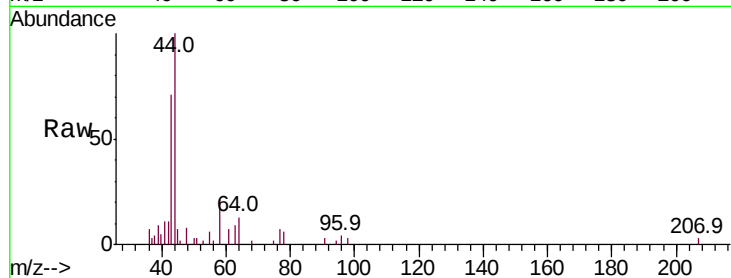
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 5511

Ion Ratio Lower Upper

43 100

58 39.0 0.0 61.8



#16

Methylene chloride

Concen: 0.094 ug/L

RT: 3.08 min Scan# 541

Delta R.T. -0.00 min

Lab File: VU035401.D

Acq: 23 Oct 2019 11:19

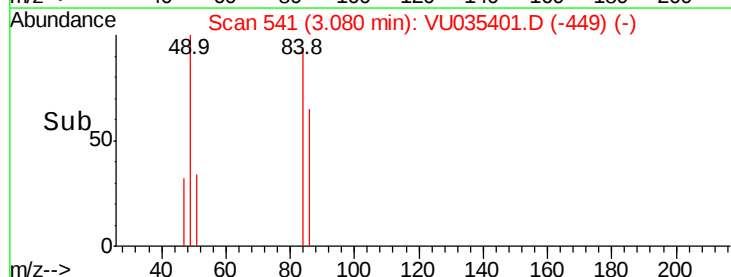
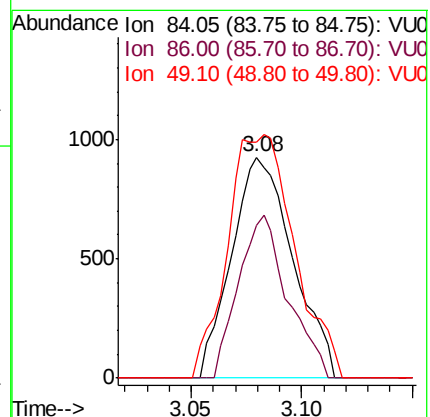
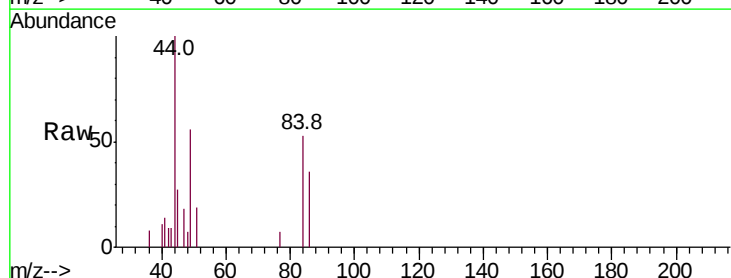
Tgt Ion: 84 Resp: 1782

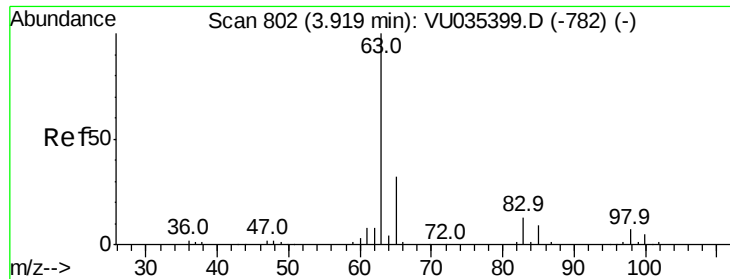
Ion Ratio Lower Upper

84 100

86 69.0 45.4 84.2

49 106.7 86.8 161.2



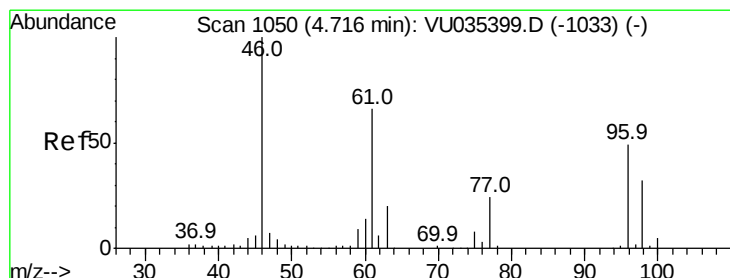
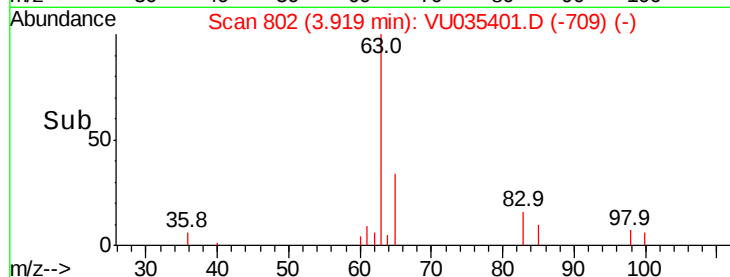
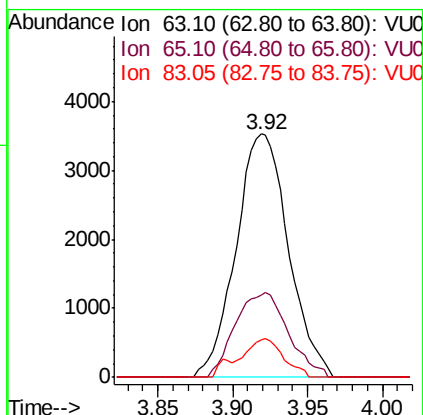
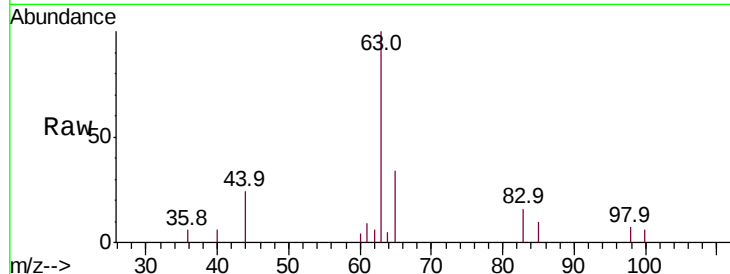


#19
 1,1-Dichloroethane
 Concen: 0.280 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VU035401.D
 Acq: 23 Oct 2019 11:19

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 8576

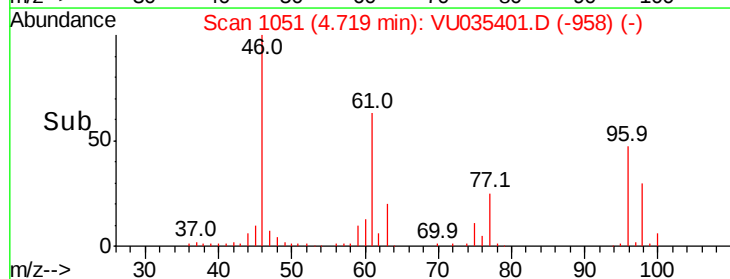
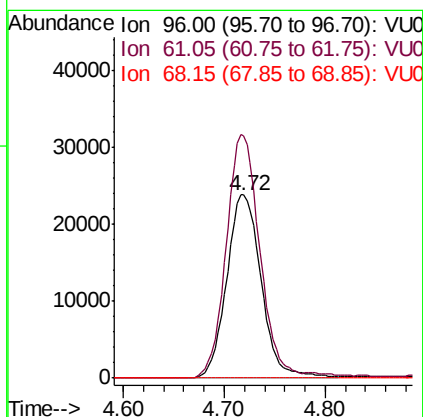
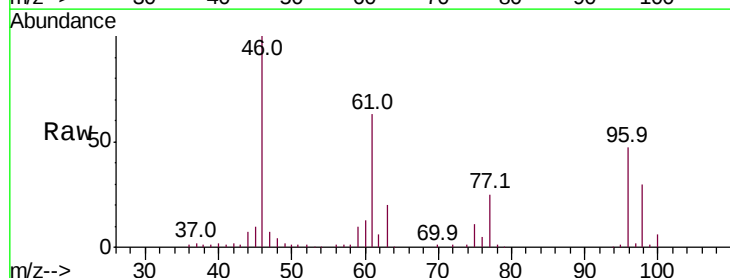
Ion	Ratio	Lower	Upper
63	100		
65	33.7	22.4	41.6
83	15.7	9.3	17.3

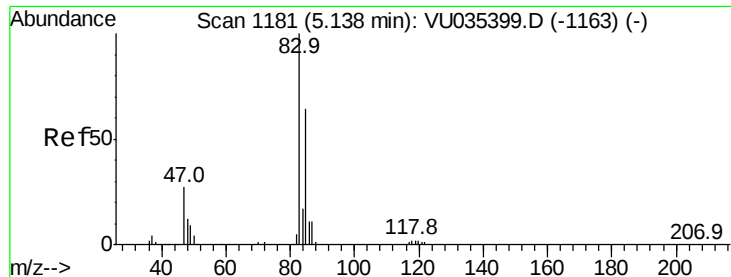


#22
 cis-1,2-Dichloroethene
 Concen: 3.039 ug/L
 RT: 4.72 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VU035401.D
 Acq: 23 Oct 2019 11:19

Tgt Ion: 96 Resp: 56975

Ion	Ratio	Lower	Upper
96	100		
61	132.4	89.7	166.5
68	0.0	0.0	0.0





#25

Chloroform

Concen: 0.270 ug/L

RT: 5.14 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VU035401.D

Acq: 23 Oct 2019 11:19

Instrument :

MSVOA_U

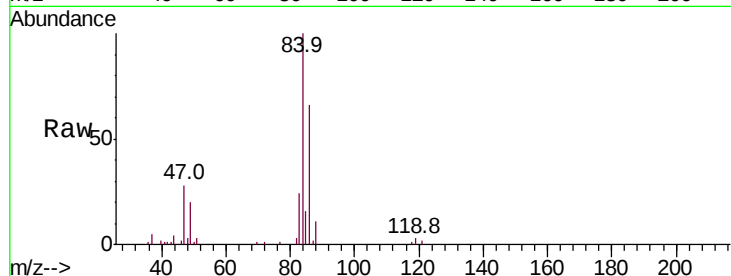
ClientSampleId :

Tot Ion: 83 Resp: 9088

Ion Ratio Lower Upper

83 100

85 68.7 45.1 83.9



Abundance Ion 83.05 (82.75 to 83.75): VU035399.D (-1163) (-)

Ion 85.00 (84.70 to 85.70): VU035399.D (-1163) (-)

5.14

4000

3000

2000

1000

0

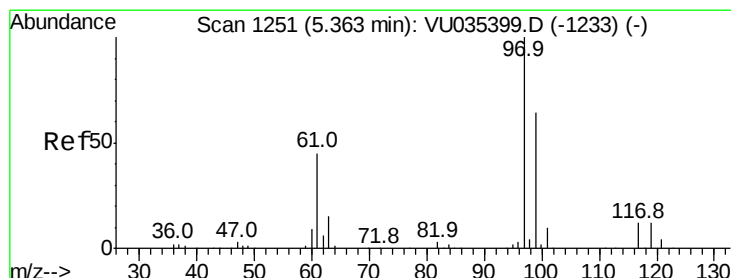
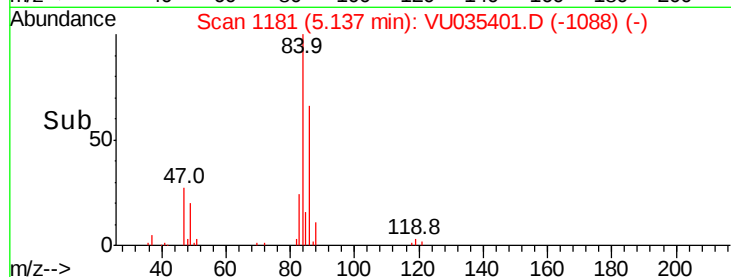
Time-->

5.05

5.10

5.15

5.20



#29

1,1,1-Trichloroethane

Concen: 0.285 ug/L

RT: 5.37 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VU035401.D

Acq: 23 Oct 2019 11:19

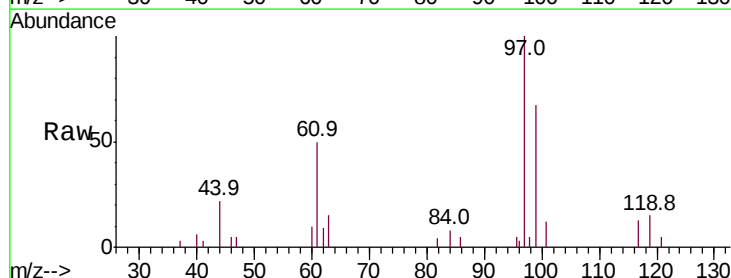
Tgt Ion: 97 Resp: 8266

Ion Ratio Lower Upper

97 100

99 66.1 52.6 79.0

61 51.7 37.0 55.4



Abundance Ion 96.95 (96.65 to 97.65): VU035399.D (-1233) (-)

Ion 99.05 (98.75 to 99.75): VU035399.D (-1233) (-)

Ion 61.05 (60.75 to 61.75): VU035399.D (-1233) (-)

5.37

4000

3000

2000

1000

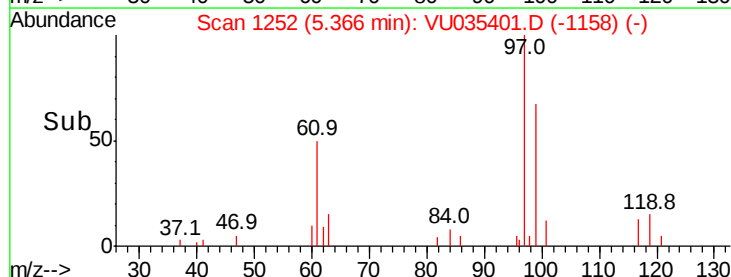
0

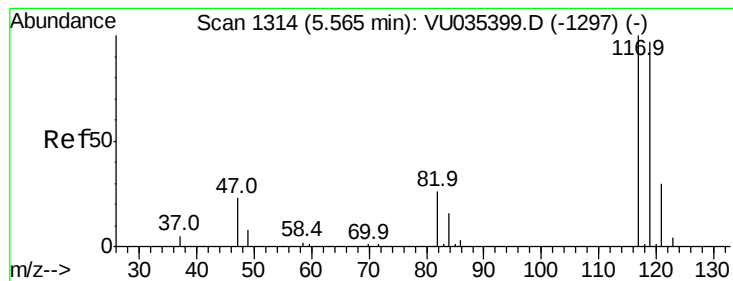
Time-->

5.30

5.35

5.40





#31

Carbon tetrachloride

Concen: 0.137 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU035401.D

Acq: 23 Oct 2019 11:19

Instrument :

MSVOA_U

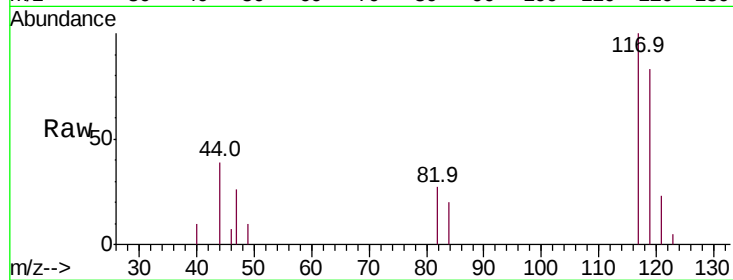
ClientSampleId :

Tot Ion:117 Resp: 3575

Ion Ratio Lower Upper

117 100

119 90.6 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.57

2000

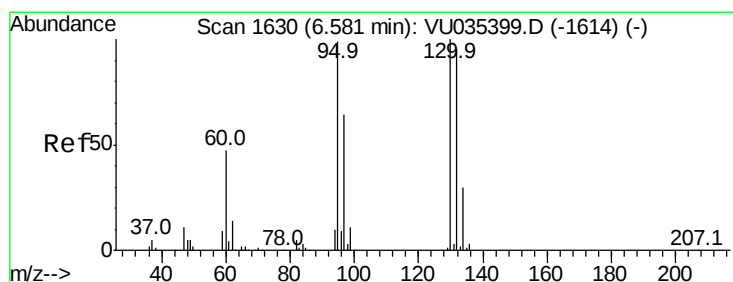
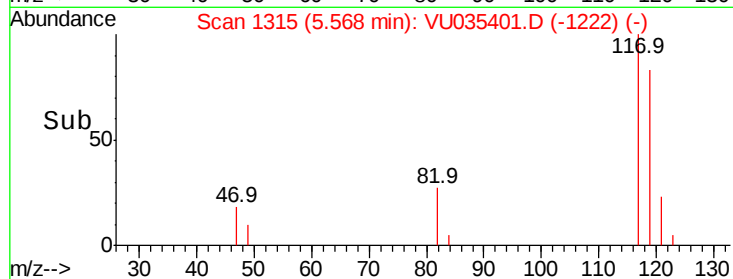
1500

1000

500

0

Time--> 5.50 5.55 5.60



#34

Trichloroethene

Concen: 11.785 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035401.D

Acq: 23 Oct 2019 11:19

Tgt Ion: 95 Resp: 230555

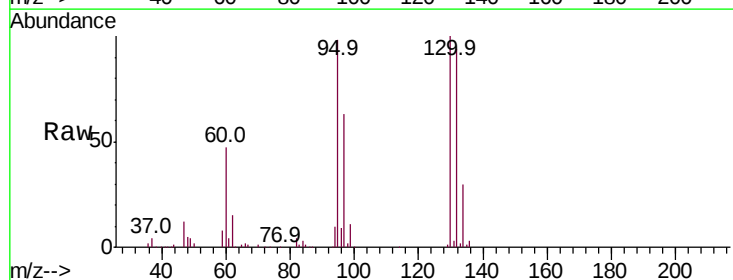
Ion Ratio Lower Upper

95 100

97 64.1 46.6 86.6

132 96.4 68.7 127.7

130 102.0 73.9 137.3



Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

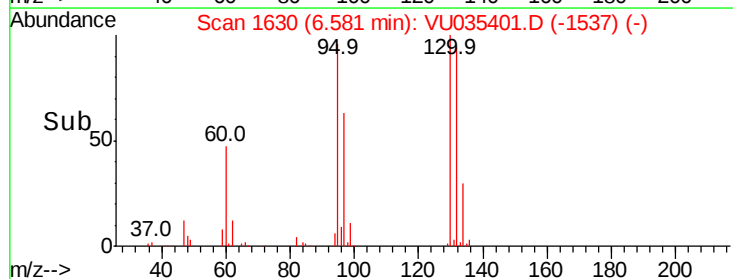
150000

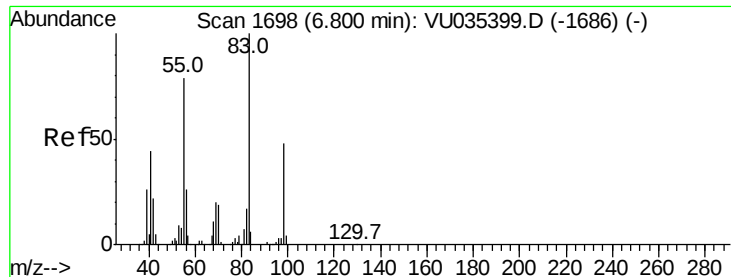
100000

50000

0

Time--> 6.50 6.60 6.70





#35

Methylcyclohexane

Concen: 0.700 ug/L

RT: 6.73 min Scan# 1677

Delta R.T. -0.07 min

Lab File: VU035401.D

Acq: 23 Oct 2019 11:19

Instrument :
MSVOA_U
ClientSampled :

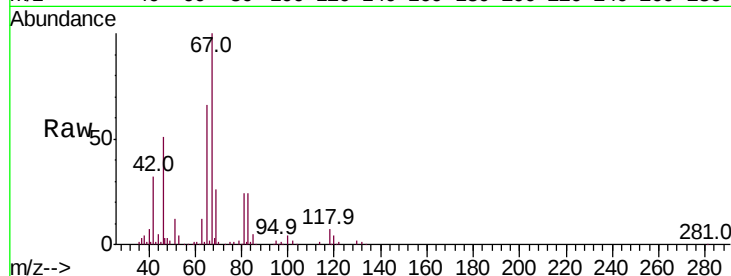
Tot Ion: 83 Resp: 22884

Ion Ratio Lower Upper

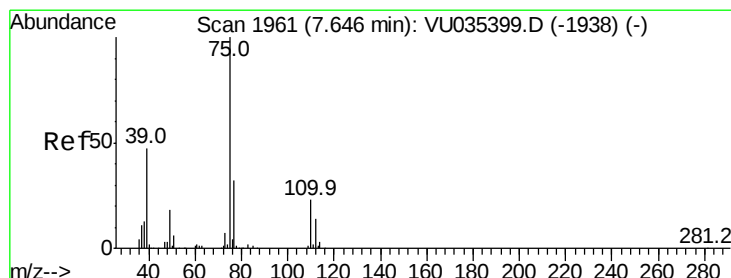
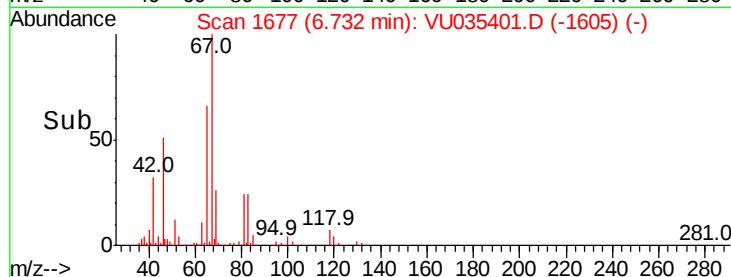
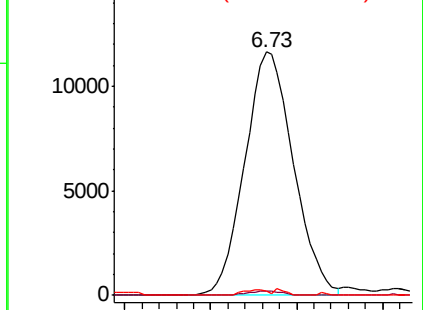
83 100

55 1.2 60.4 90.6#

98 1.2 39.5 59.3#



Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0



#39

cis-1,3-Dichloropropene

Concen: 0.074 ug/L

RT: 7.60 min Scan# 1948

Delta R.T. -0.04 min

Lab File: VU035401.D

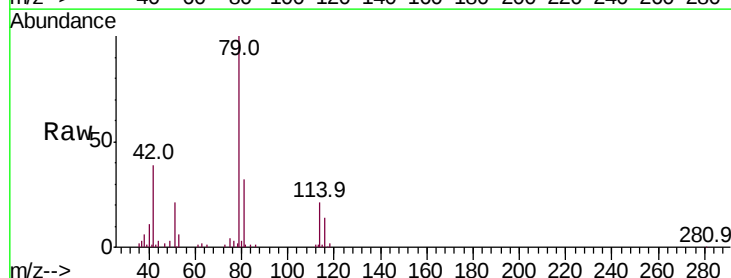
Acq: 23 Oct 2019 11:19

Tgt Ion: 75 Resp: 2276

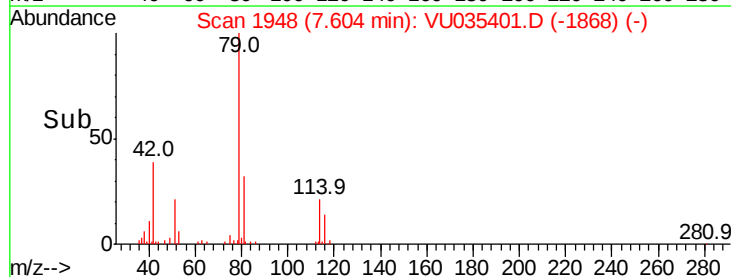
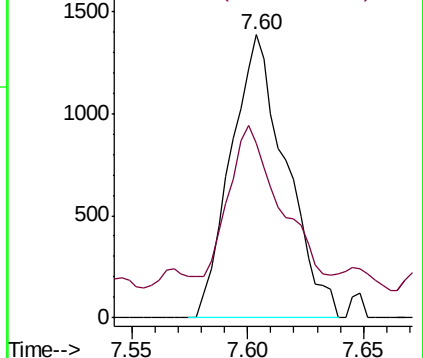
Ion Ratio Lower Upper

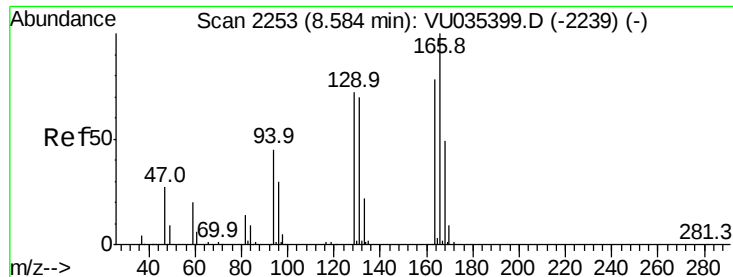
75 100

77 61.6 22.7 42.1#



Abundance Ion 75.05 (74.75 to 75.75): VU0
Ion 77.05 (76.75 to 77.75): VU0

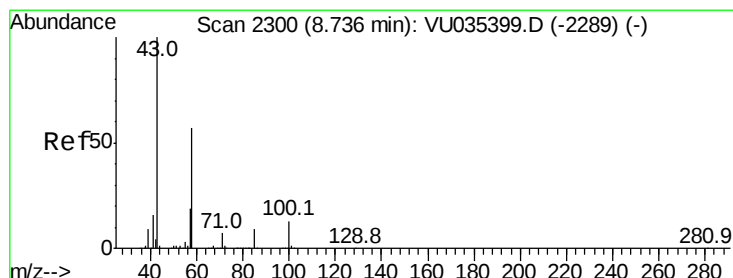
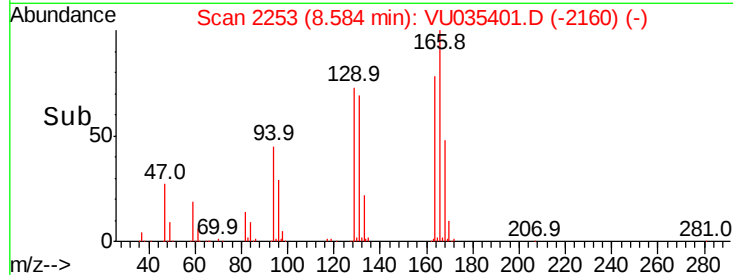
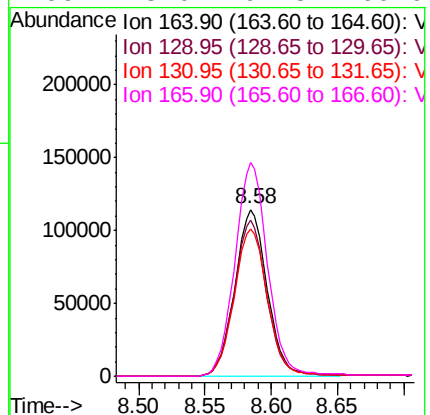
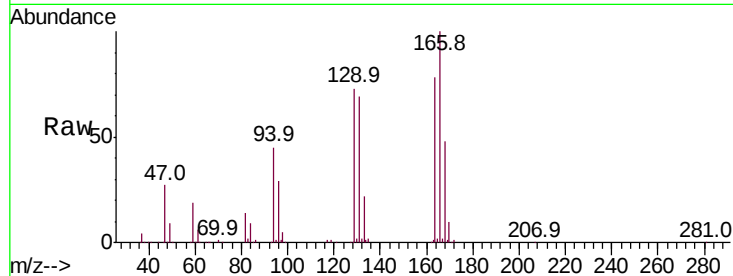




#47
Tetrachloroethene
Concen: 11.961 ug/L
RT: 8.58 min Scan# 2253
Delta R.T. 0.00 min
Lab File: VU035401.D
Acq: 23 Oct 2019 11:19

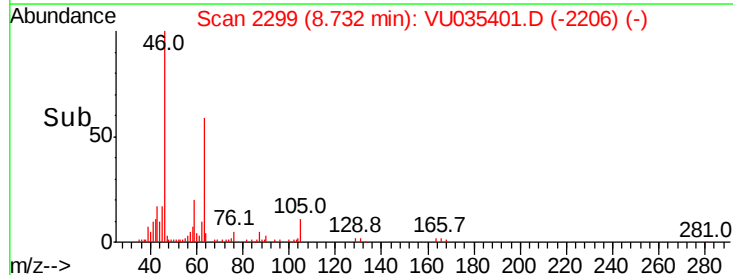
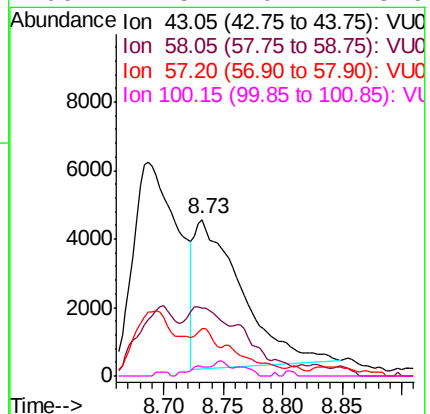
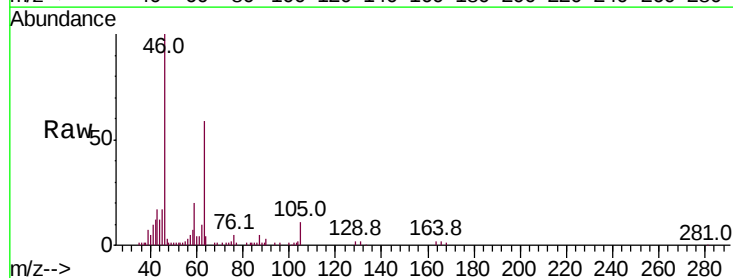
Instrument :
MSVOA_U
ClientSampleId :

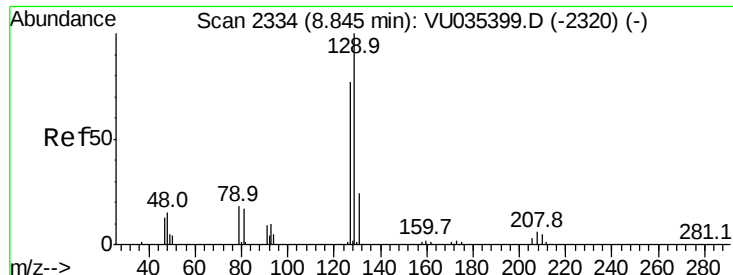
Tot Ion:164 Resp: 194946
Ion Ratio Lower Upper
164 100
129 93.4 65.2 121.0
131 88.4 62.9 116.9
166 128.0 91.5 169.9



#48
2-Hexanone
Concen: 1.378 ug/L
RT: 8.73 min Scan# 2299
Delta R.T. 0.00 min
Lab File: VU035401.D
Acq: 23 Oct 2019 11:19

Tgt Ion: 43 Resp: 12051
Ion Ratio Lower Upper
43 100
58 13.2 45.1 67.7#
57 5.4 16.0 24.0#
100 2.5 10.4 15.6#





#49

Dibromochloromethane

Concen: 10.223 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.26 min

Lab File: VU035401.D

Acq: 23 Oct 2019 11:19

Instrument :

MSVOA_U

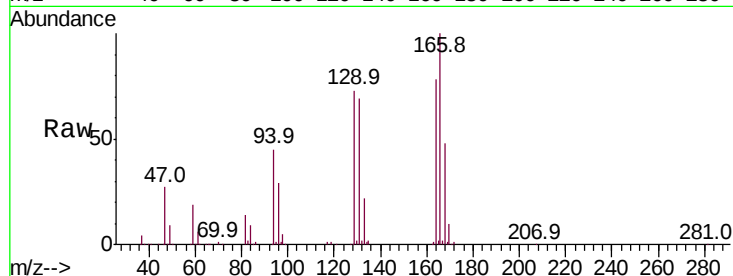
ClientSampleId :

Tot Ion:129 Resp: 177747

Ion Ratio Lower Upper

129 100

127 0.1 53.8 99.8#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.58

120000

100000

80000

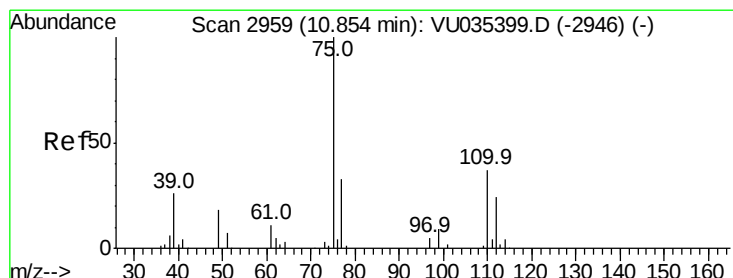
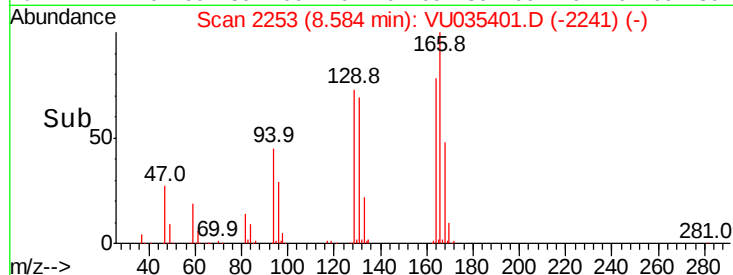
60000

40000

20000

0

Time--> 8.50 8.55 8.60 8.65 8.70



#59

1,2,3-Trichloropropane

Concen: 0.772 ug/L

RT: 11.84 min Scan# 3267

Delta R.T. 0.99 min

Lab File: VU035401.D

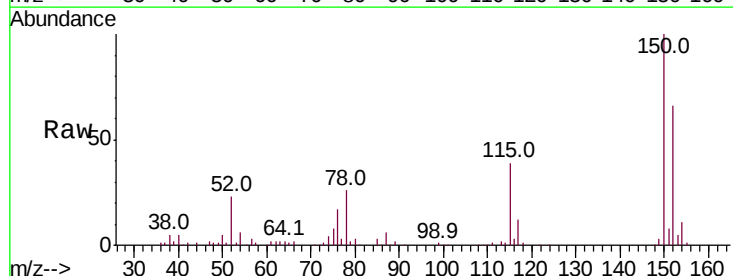
Acq: 23 Oct 2019 11:19

Tgt Ion: 75 Resp: 9941

Ion Ratio Lower Upper

75 100

77 36.2 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.84

5000

4000

3000

2000

1000

0

Time--> 11.80 11.85 11.90

