

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102219\
 Data File : VU035360.D
 Acq On : 22 Oct 2019 13:15
 Operator : JC/SP
 Sample : K5461-18
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 23 06:53:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 23 06:48:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	260375	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	251329	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	85484	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	118079	7.44	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	148.80%#
7) Chloroethane-d5	1.93	69	100904	6.95	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	139.00%#
11) 1,1-Dichloroethene-d2	2.59	63	155311	5.29	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	105.80%
20) 2-Butanone-d5	4.71	46	191448	41.96	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	83.92%
24) Chloroform-d	5.11	84	164471	5.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	113.40%
26) 1,2-Dichloroethane-d4	5.75	65	101494	6.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	126.20%
32) Benzene-d6	5.77	84	372106	6.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	129.40%#
36) 1,2-Dichloropropane-d6	6.74	67	119301	6.54	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	130.80%
41) Toluene-d8	7.93	98	322334	5.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	117.20%
43) trans-1,3-Dichloropropene-	8.22	79	31813	3.59	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	71.80%
46) 2-Hexanone-d5	8.69	63	171198	43.83	ug/L	0.01
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.66%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	93657	5.76	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	115.20%
64) 1,2-Dichlorobenzene-d4	12.22	152	94067	6.04	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	120.80%#

Target Compounds

					Ovalue
5) Vinyl chloride	1.62	62	392084	17.367	ug/L 100
8) Chloroethane	1.96	64	1418	0.097	ug/L # 57
12) 1,1-Dichloroethene	2.61	96	10877	0.650	ug/L # 1
13) Acetone	2.67	43	10490	3.305	ug/L 99
16) Methylene chloride	3.08	84	1821	0.090	ug/L 87
17) Methyl tert-butyl Ether	3.43	73	110229	2.448	ug/L # 88
18) trans-1,2-Dichloroethene	3.39	96	106561	5.903	ug/L 92
19) 1,1-Dichloroethane	3.92	63	35923	1.100	ug/L 99
21) 2-Butanone	4.79	43	14112	2.728	ug/L 93
22) cis-1,2-Dichloroethene	4.72	96	3518410	176.333	ug/L 98
25) Chloroform	5.14	83	18278	0.510	ug/L 98
30) Cyclohexane	5.43	56	4078	0.129	ug/L # 91
33) Benzene	5.82	78	31952	0.432	ug/L 100
34) Trichloroethene	6.58	95	2519980	126.753	ug/L 97
37) 1,2-Dichloropropane	6.74	63	13431	0.715	ug/L # 87
42) Toluene	8.01	91	14076	0.172	ug/L 92
47) Tetrachloroethene	8.58	164	17575	1.061	ug/L 96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102219\
Data File : VU035360.D
Acq On : 22 Oct 2019 13:15
Operator : JC/SP
Sample : K5461-18
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Oct 23 06:53:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 23 06:48:58 2019
Response via : Initial Calibration

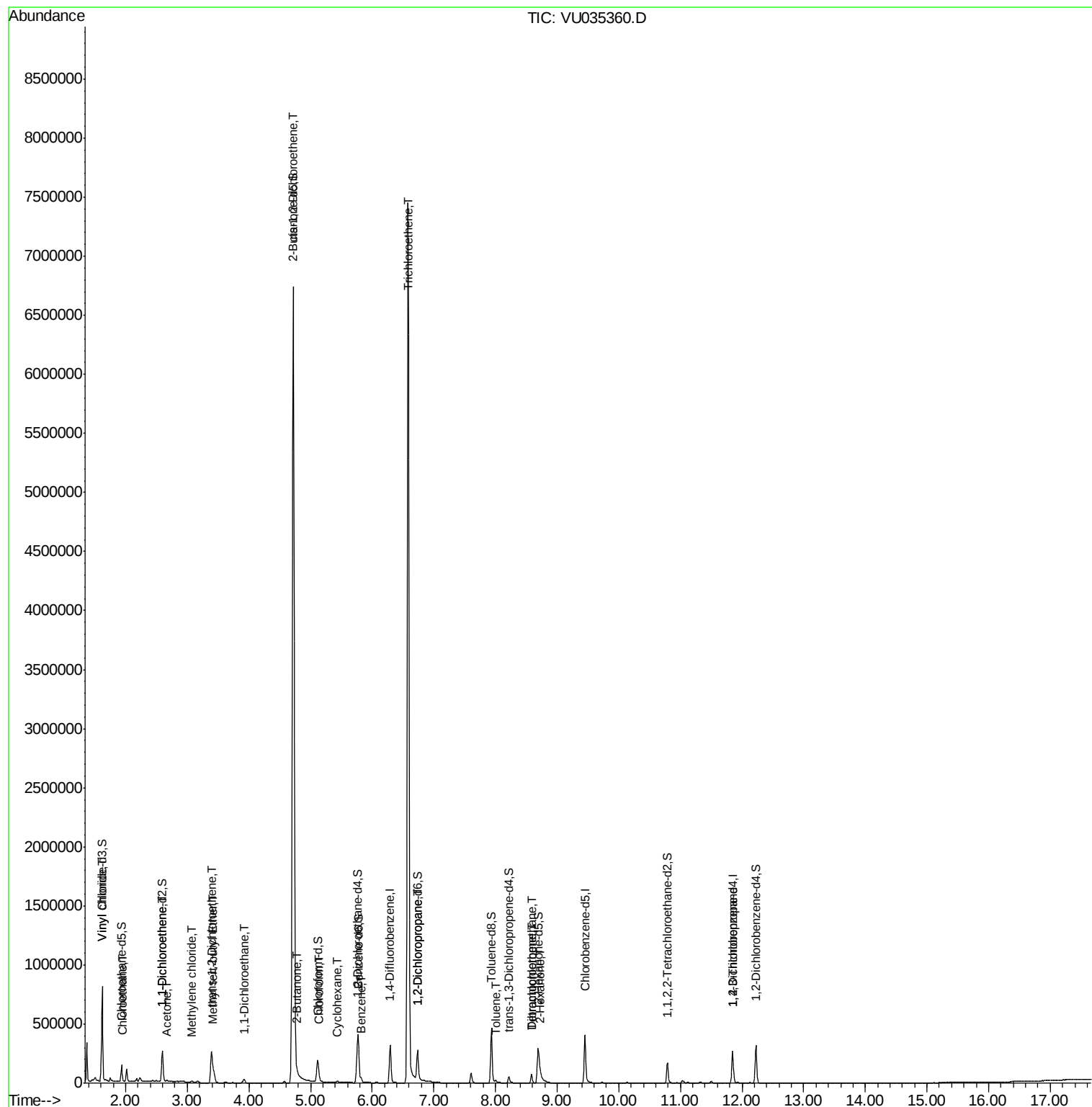
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.73	43	12540	1.411	ug/L #	91
49) Dibromochloromethane	8.58	129	16052	0.908	ug/L #	11
59) 1,2,3-Trichloropropane	11.84	75	10887	0.832	ug/L	93

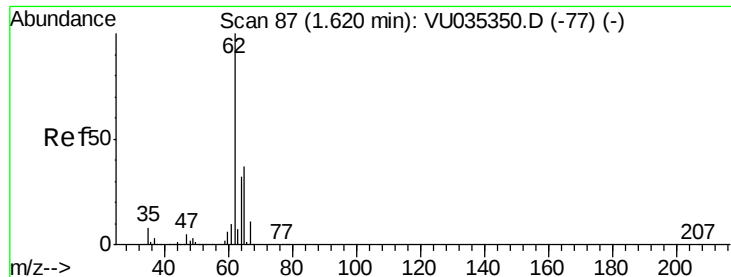
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102219\
Data File : VU035360.D
Acq On : 22 Oct 2019 13:15
Operator : JC/SP
Sample : K5461-18
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Oct 23 06:53:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 23 06:48:58 2019
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 17.367 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VU035360.D

Acq: 22 Oct 2019 13:15

Instrument :

MSVOA_U

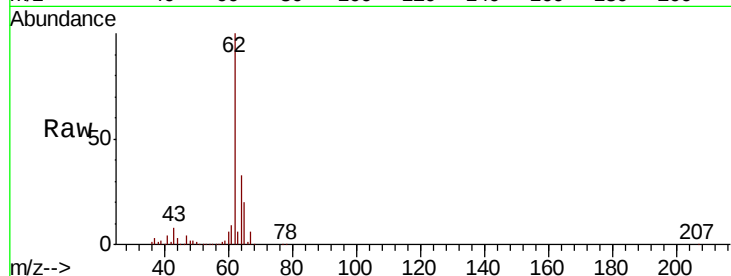
ClientSampleId :

Tot Ion: 62 Resp: 392084

Ion Ratio Lower Upper

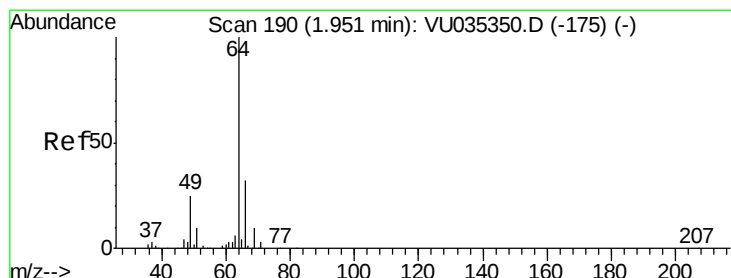
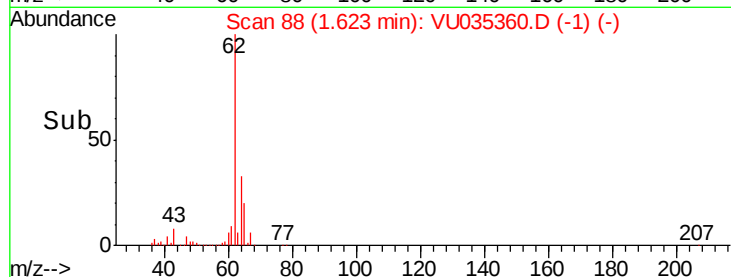
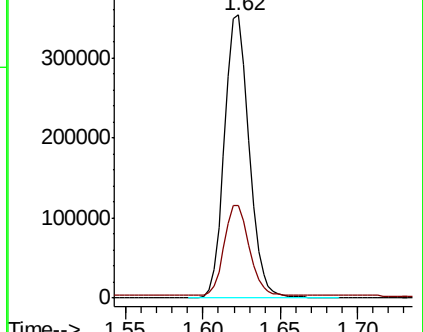
62 100

64 32.8 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU035350.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU035360.D (-97) (-)



#8

Chloroethane

Concen: 0.097 ug/L

RT: 1.96 min Scan# 194

Delta R.T. 0.01 min

Lab File: VU035360.D

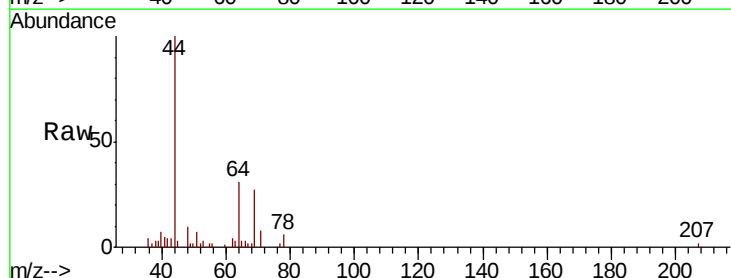
Acq: 22 Oct 2019 13:15

Tgt Ion: 64 Resp: 1418

Ion Ratio Lower Upper

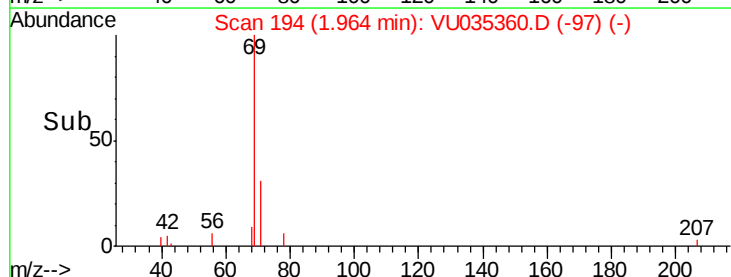
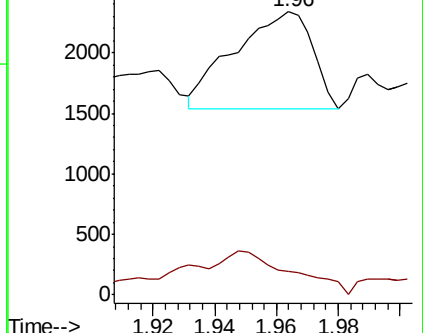
64 100

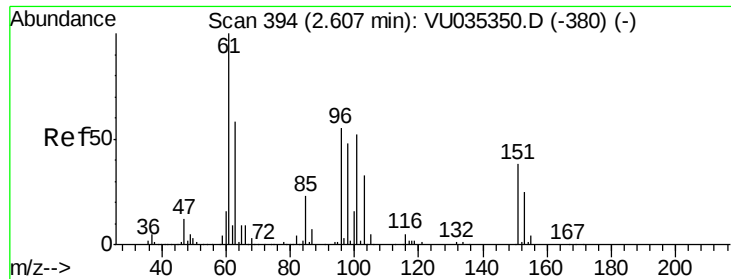
66 8.2 22.7 42.1#



Abundance Ion 64.10 (63.80 to 64.80): VU035350.D (-175) (-)

Ion 66.05 (65.75 to 66.75): VU035360.D (-97) (-)





#12

1,1-Dichloroethene

Concen: 0.650 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

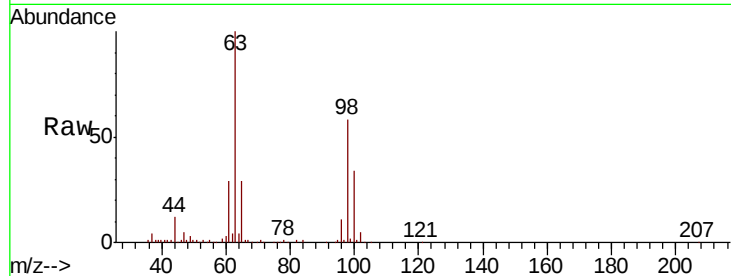
Lab File: VU035360.D

Acq: 22 Oct 2019 13:15

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 96 Resp: 10877

Ion	Ratio	Lower	Upper
96	100		
61	258.5	120.6	224.0#
63	902.9	86.8	161.2#

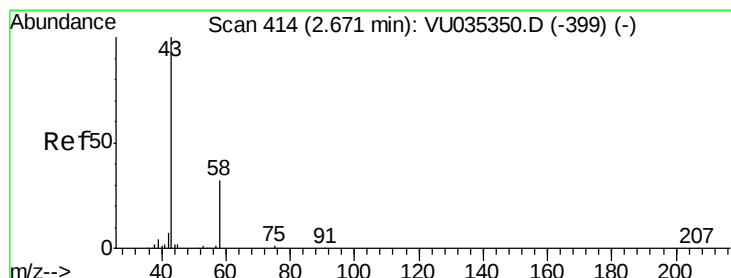
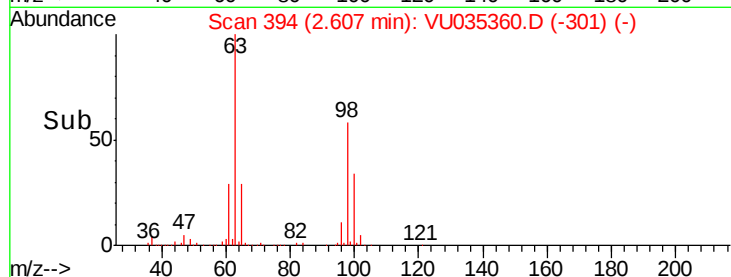
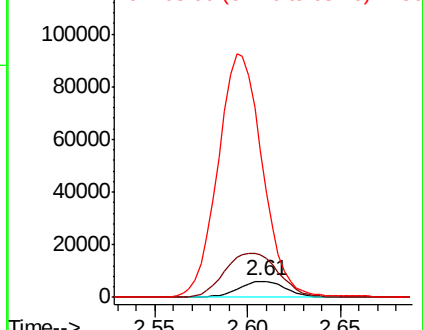


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0



#13

Acetone

Concen: 3.305 ug/L

RT: 2.67 min Scan# 415

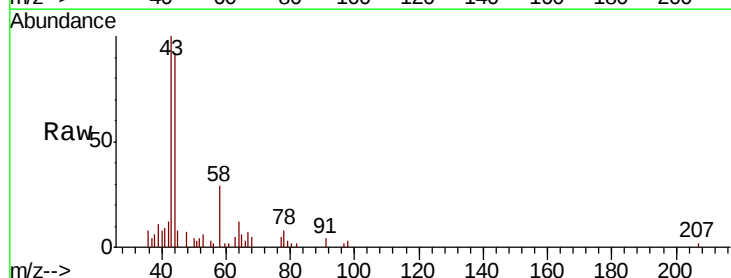
Delta R.T. 0.00 min

Lab File: VU035360.D

Acq: 22 Oct 2019 13:15

Tgt Ion: 43 Resp: 10490

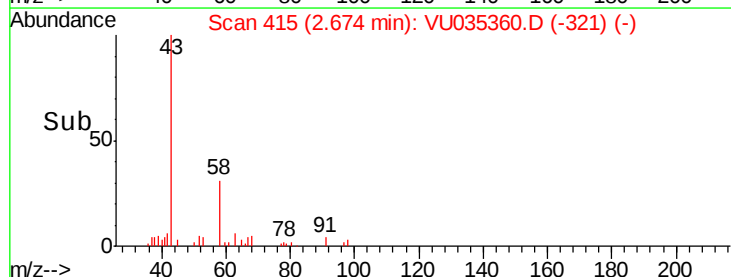
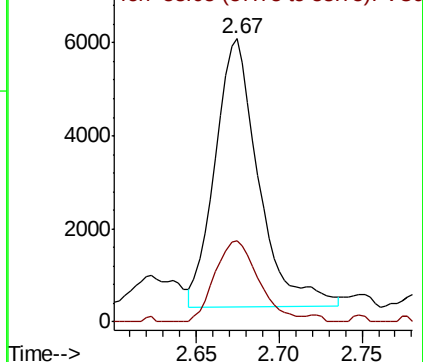
Ion	Ratio	Lower	Upper
43	100		
58	30.6	0.0	61.8

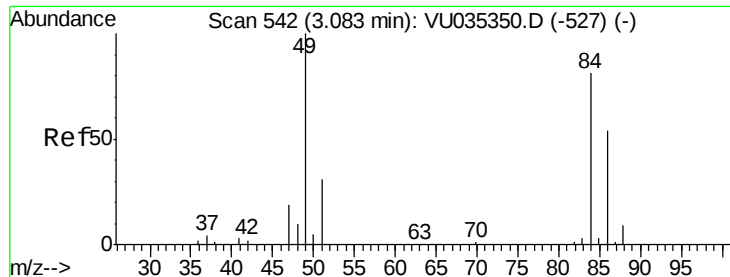


Abundance

Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

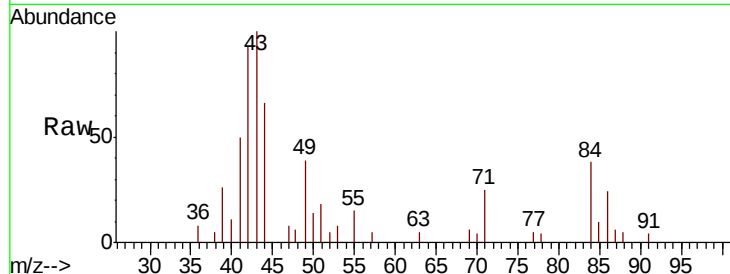




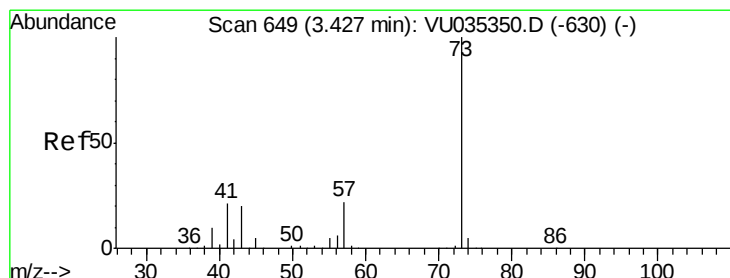
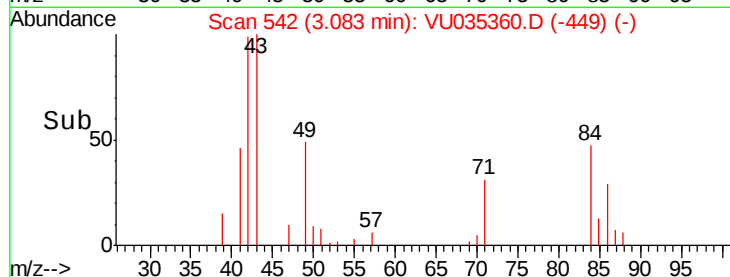
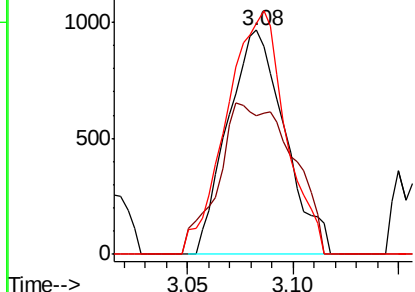
#16
Methvlene chloride
Concen: 0.090 ug/L
RT: 3.08 min Scan# 542
Delta R.T. -0.00 min
Lab File: VU035360.D
Acq: 22 Oct 2019 13:15

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 84 Resp: 1821
Ion Ratio Lower Upper
84 100
86 62.2 45.4 84.2
49 103.2 86.8 161.2

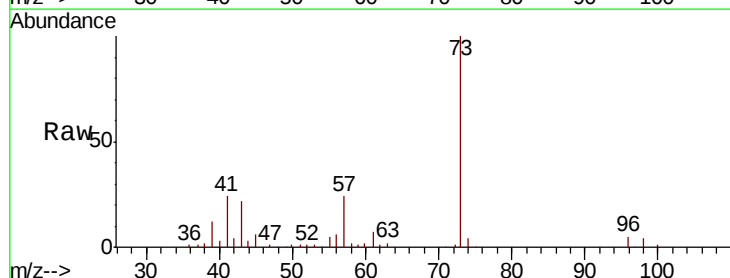


Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0

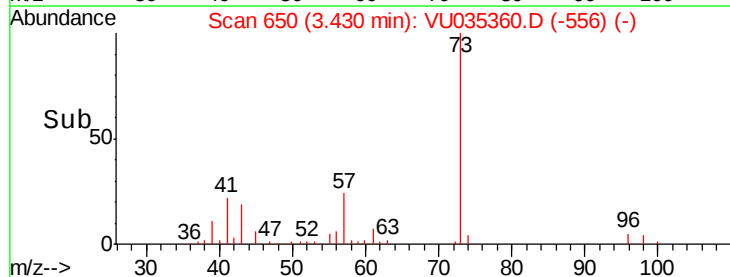
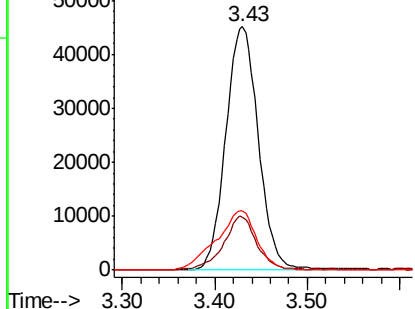


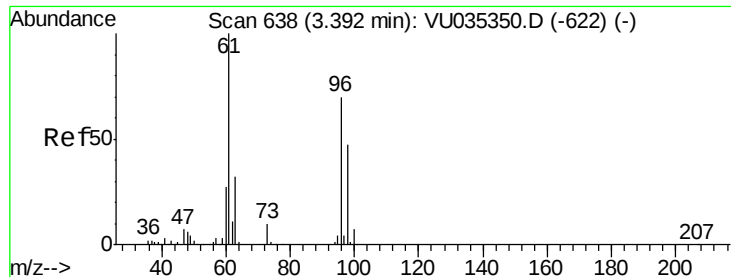
#17
Methyl tert-butyl Ether
Concen: 2.448 ug/L
RT: 3.43 min Scan# 650
Delta R.T. 0.00 min
Lab File: VU035360.D
Acq: 22 Oct 2019 13:15

Tgt Ion: 73 Resp: 110229
Ion Ratio Lower Upper
73 100
43 22.7 16.0 24.0
57 30.1 17.4 26.2#



Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0





#18

trans-1,2-Dichloroethene

Concen: 5.903 ug/L

RT: 3.39 min Scan# 638

Delta R.T. -0.00 min

Lab File: VU035360.D

Acq: 22 Oct 2019 13:15

Instrument :

MSVOA_U

ClientSampleId :

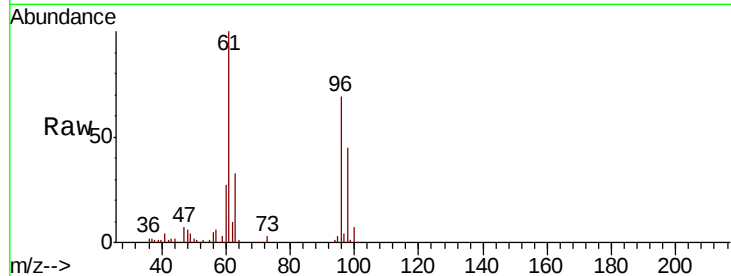
Tot Ion: 96 Resp: 106561

Ion Ratio Lower Upper

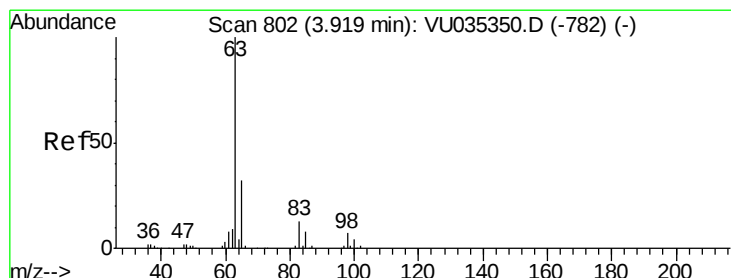
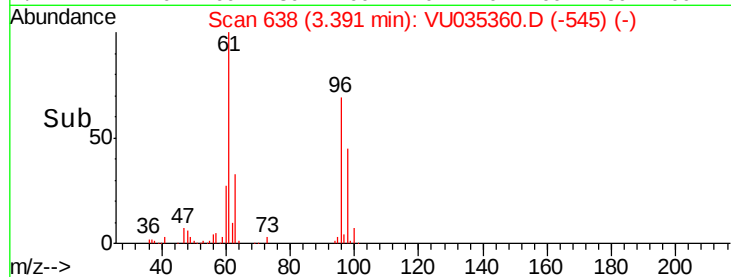
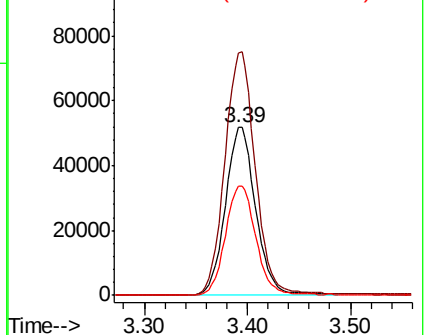
96 100

61 144.4 93.0 172.6

98 64.7 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0



#19

1,1-Dichloroethane

Concen: 1.100 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.00 min

Lab File: VU035360.D

Acq: 22 Oct 2019 13:15

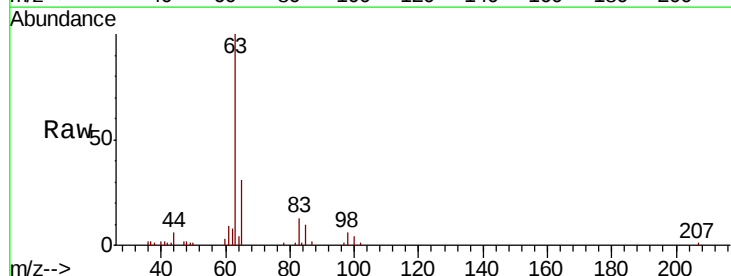
Tgt Ion: 63 Resp: 35923

Ion Ratio Lower Upper

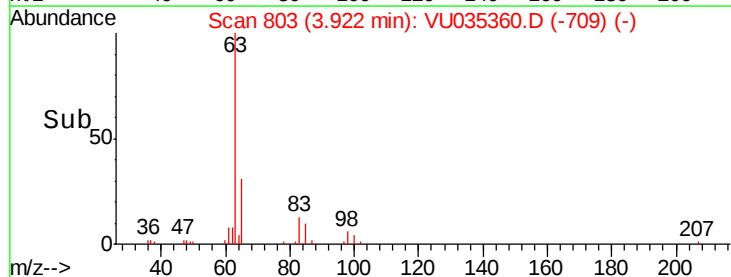
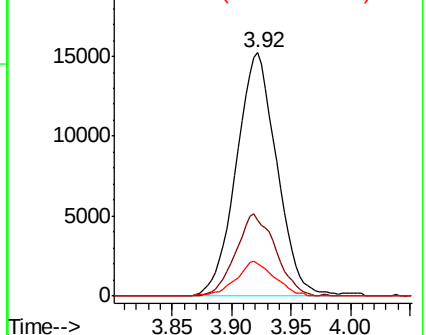
63 100

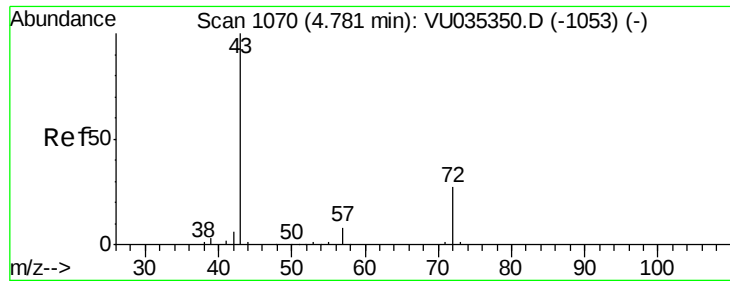
65 31.4 22.4 41.6

83 13.4 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 65.10 (64.80 to 65.80): VU0
Ion 83.05 (82.75 to 83.75): VU0

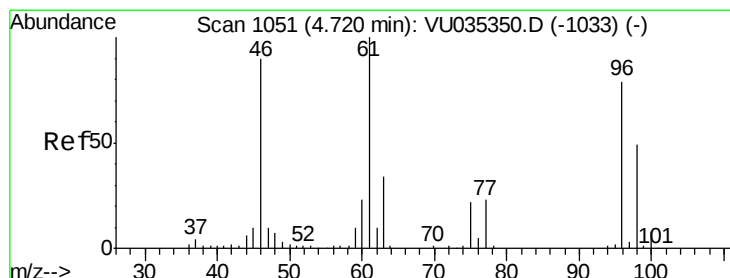
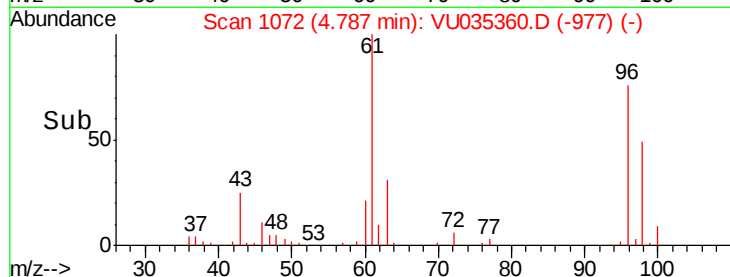
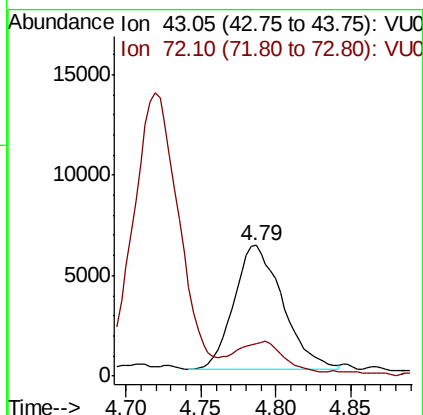
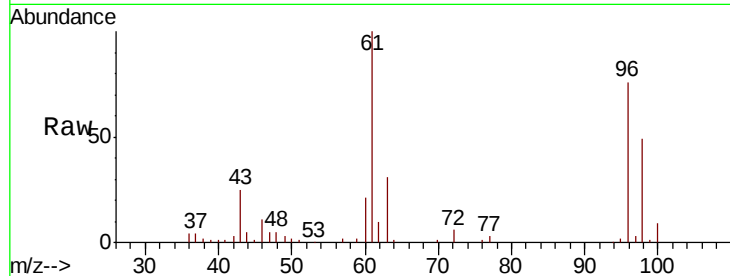




#21
 2-Butanone
 Concen: 2.728 ug/L
 RT: 4.79 min Scan# 1072
 Delta R.T. 0.01 min
 Lab File: VU035360.D
 Acq: 22 Oct 2019 13:15

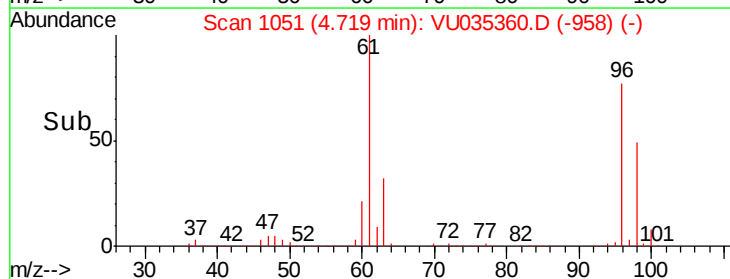
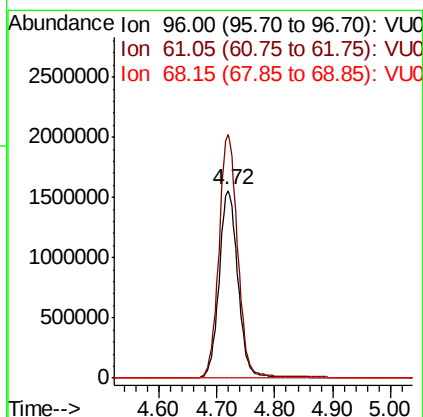
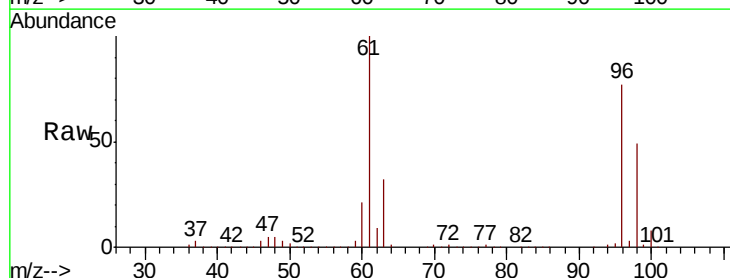
Instrument :
 MSVOA_U
 ClientSampleId :

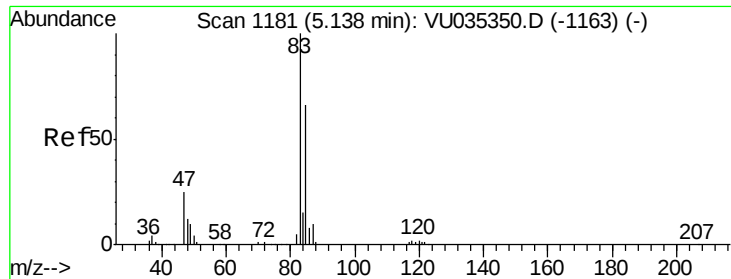
Tot Ion: 43 Resp: 14112
 Ion Ratio Lower Upper
 43 100
 72 23.8 13.6 40.8



#22
 cis-1,2-Dichloroethene
 Concen: 176.333 ug/L
 RT: 4.72 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: VU035360.D
 Acq: 22 Oct 2019 13:15

Tgt Ion: 96 Resp: 3518410
 Ion Ratio Lower Upper
 96 100
 61 130.0 89.7 166.5
 68 0.0 0.0 0.0





#25

Chloroform

Concen: 0.510 ug/L

RT: 5.14 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU035360.D

Acq: 22 Oct 2019 13:15

Instrument :

MSVOA_U

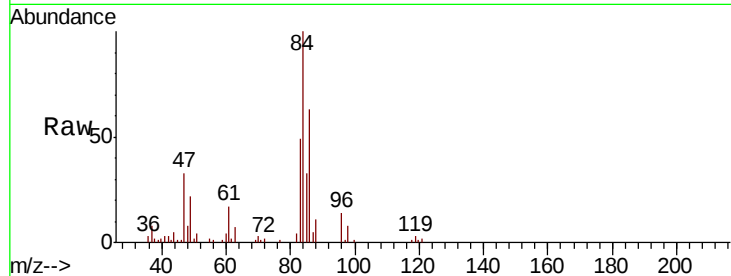
ClientSampleId :

Tot Ion: 83 Resp: 18278

Ion Ratio Lower Upper

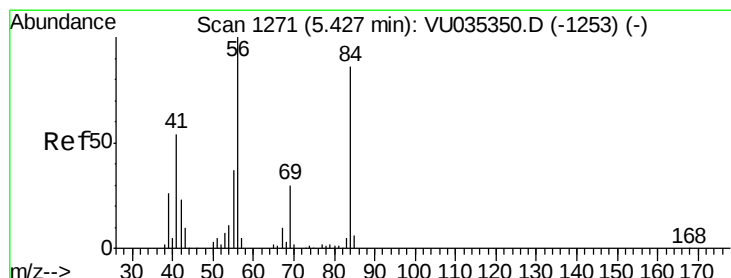
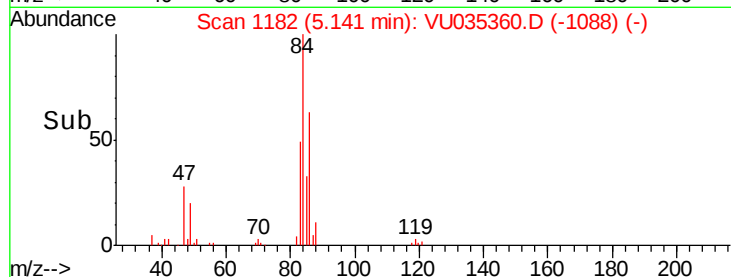
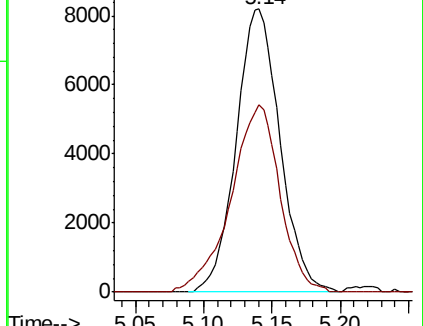
83 100

85 66.1 45.1 83.9



Abundance Ion 83.05 (82.75 to 83.75): VU035350.D (-1163) (-)

Ion 85.00 (84.70 to 85.70): VU035350.D (-1163) (-)



#30

Cyclohexane

Concen: 0.129 ug/L

RT: 5.43 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VU035360.D

Acq: 22 Oct 2019 13:15

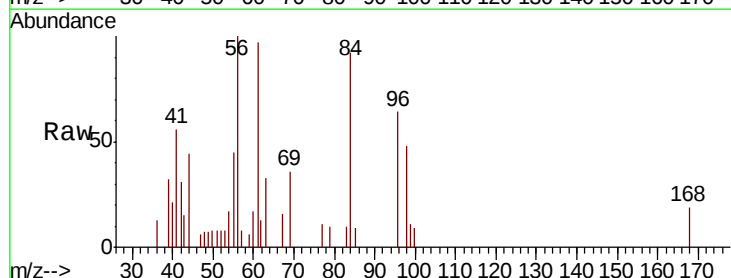
Tgt Ion: 56 Resp: 4078

Ion Ratio Lower Upper

56 100

69 39.3 24.6 36.8#

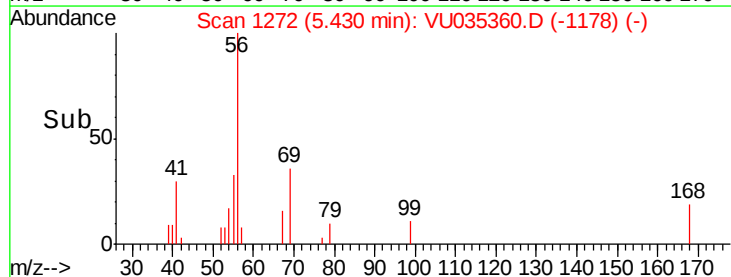
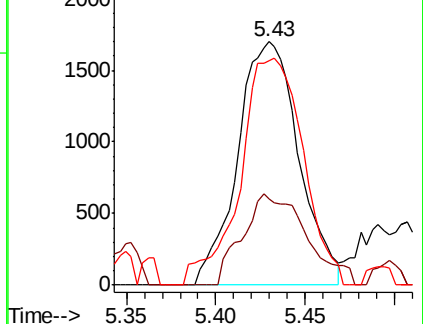
84 95.6 71.5 107.3

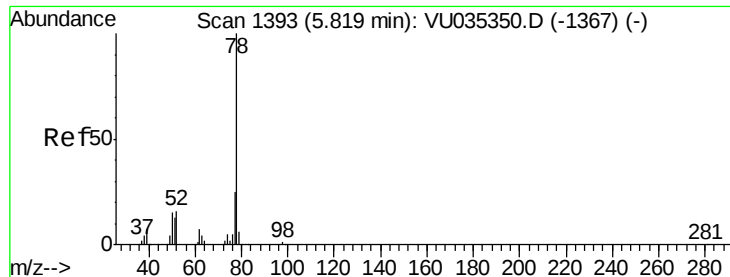


Abundance Ion 56.10 (55.80 to 56.80): VU035350.D (-1253) (-)

Ion 69.15 (68.85 to 69.85): VU035350.D (-1253) (-)

Ion 84.15 (83.85 to 84.85): VU035350.D (-1253) (-)





#33

Benzene

Concen: 0.432 ug/L

RT: 5.82 min Scan# 1394

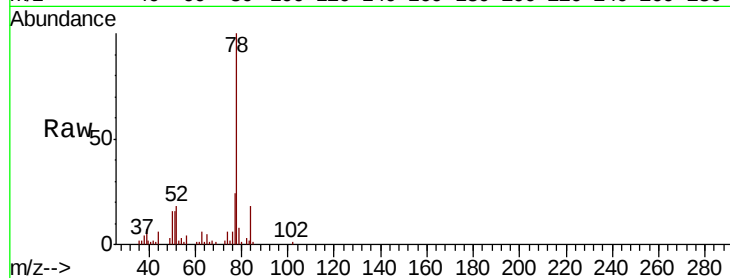
Delta R.T. 0.00 min

Lab File: VU035360.D

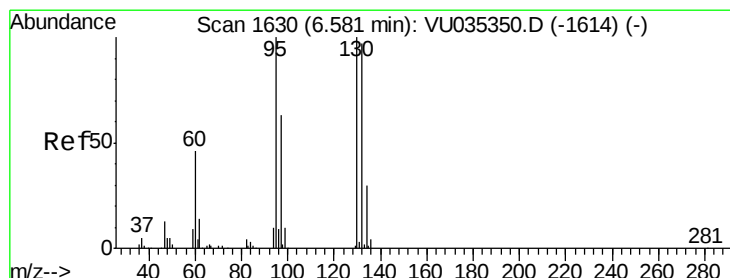
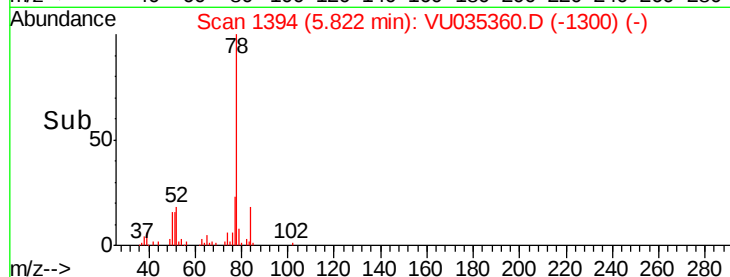
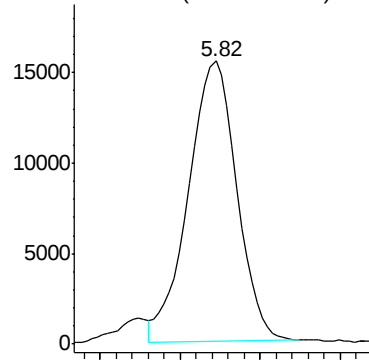
Acq: 22 Oct 2019 13:15

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 78 Resp: 31952



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 126.753 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU035360.D

Acq: 22 Oct 2019 13:15

Tgt Ion: 95 Resp: 2519980

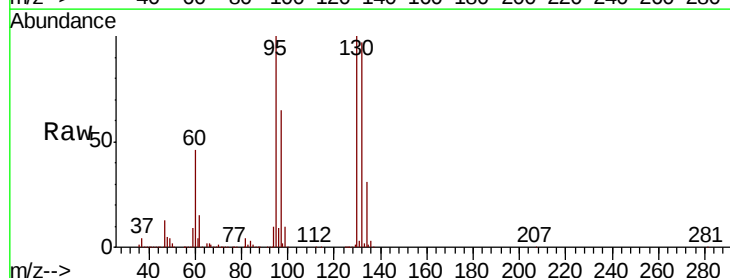
Ion	Ratio	Lower	Upper
95	100		
97	64.8	46.6	86.6
132	97.1	68.7	127.7
130	99.8	73.9	137.3

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

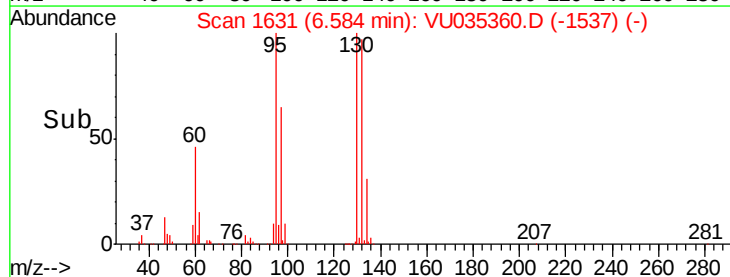
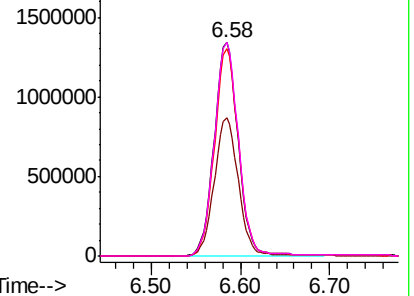


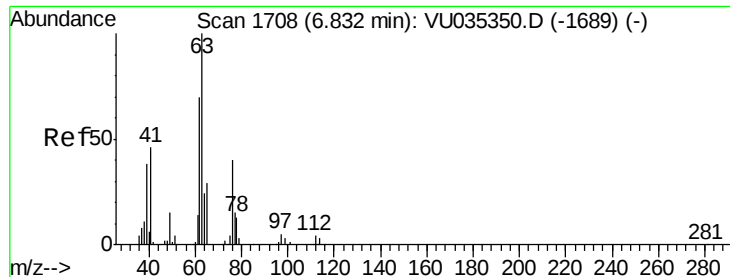
Abundance Ion 95.00 (94.70 to 95.70): VU0

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





#37

1,2-Dichloropropane

Concen: 0.715 ug/L

RT: 6.74 min Scan# 1678

Delta R.T. -0.10 min

Lab File: VU035360.D

Acq: 22 Oct 2019 13:15

Instrument :

MSVOA_U

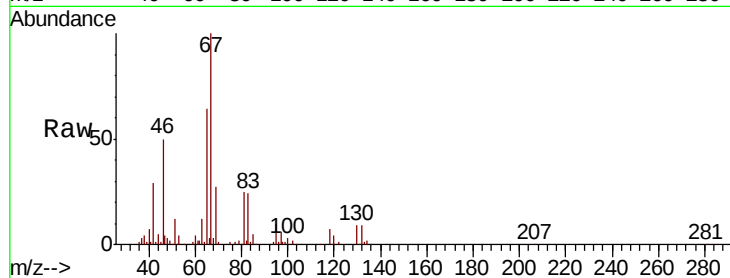
ClientSampleId :

Tot Ion: 63 Resp: 13431

Ion Ratio Lower Upper

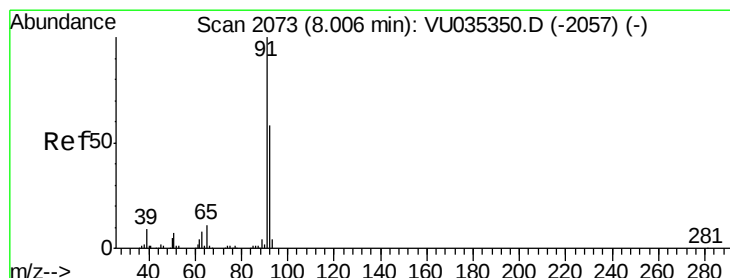
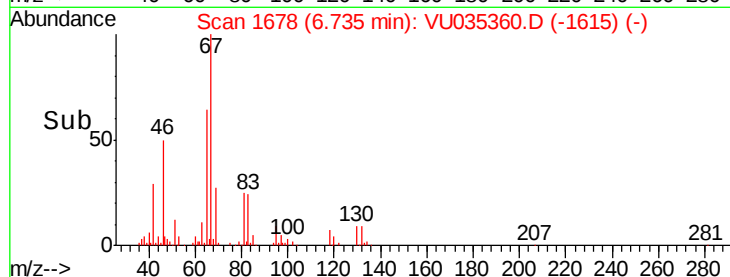
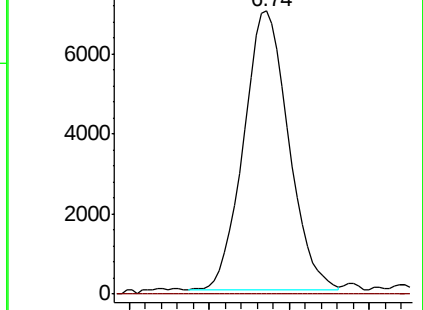
63 100

112 0.3 3.7 5.5#



Abundance Ion 63.10 (62.80 to 63.80): VU035350.D (-1689) (-)

Ion 112.10 (111.80 to 112.80): VU035350.D (-1689) (-)



#42

Toluene

Concen: 0.172 ug/L

RT: 8.01 min Scan# 2074

Delta R.T. 0.00 min

Lab File: VU035360.D

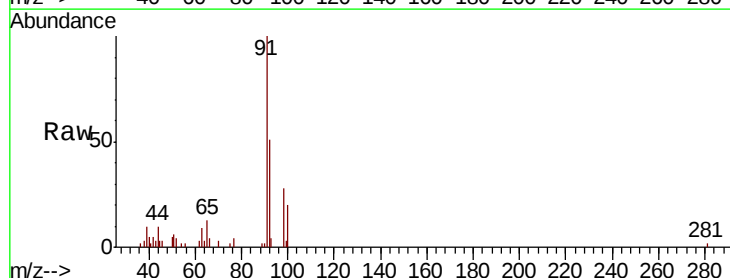
Acq: 22 Oct 2019 13:15

Tgt Ion: 91 Resp: 14076

Ion Ratio Lower Upper

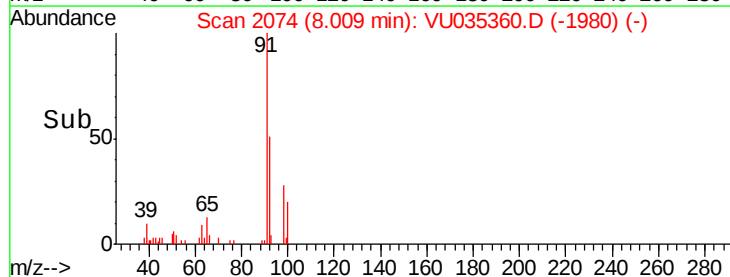
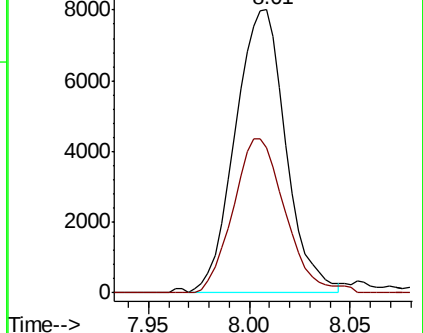
91 100

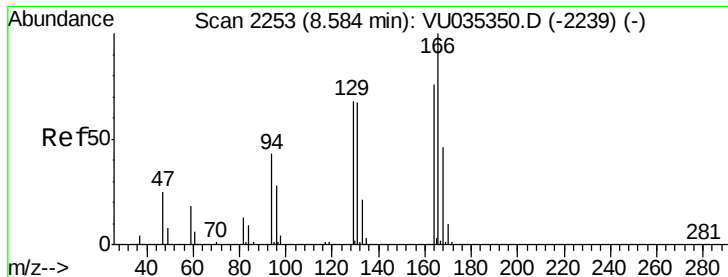
92 51.3 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VU035350.D (-2057) (-)

Ion 92.15 (91.85 to 92.85): VU035350.D (-2057) (-)





#47

Tetrachloroethene

Concen: 1.061 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU035360.D

Acq: 22 Oct 2019 13:15

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:164 Resp: 17575

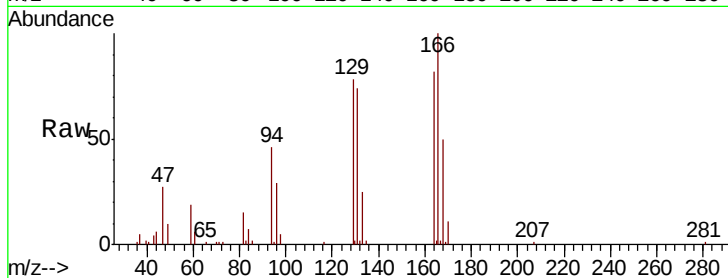
Ion Ratio Lower Upper

164 100

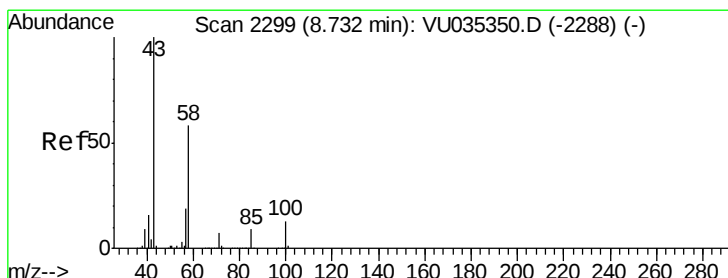
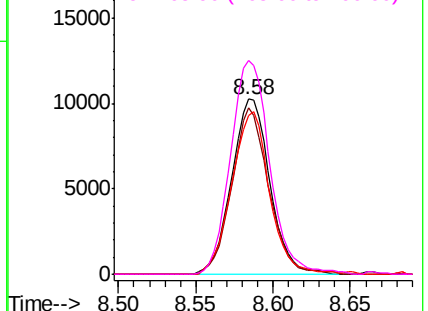
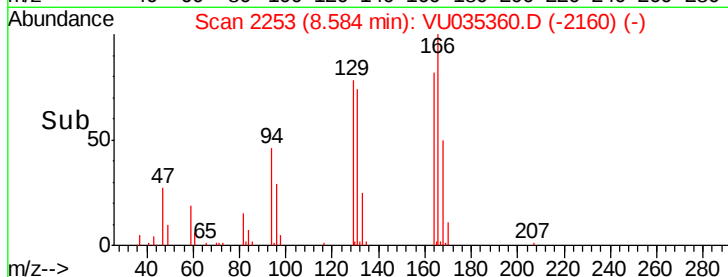
129 95.1 65.2 121.0

131 90.7 62.9 116.9

166 122.1 91.5 169.9



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 1.411 ug/L

RT: 8.73 min Scan# 2299

Delta R.T. -0.00 min

Lab File: VU035360.D

Acq: 22 Oct 2019 13:15

Tgt Ion: 43 Resp: 12540

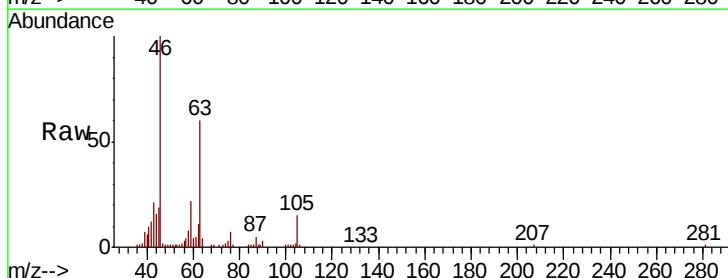
Ion Ratio Lower Upper

43 100

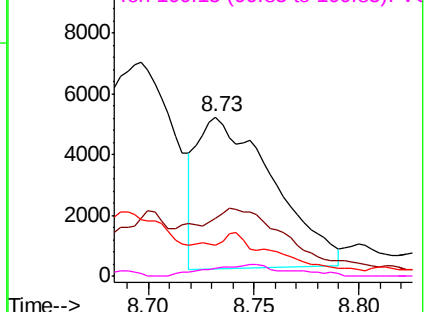
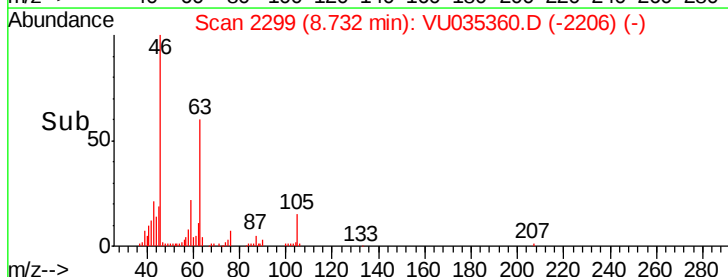
58 50.1 45.1 67.7

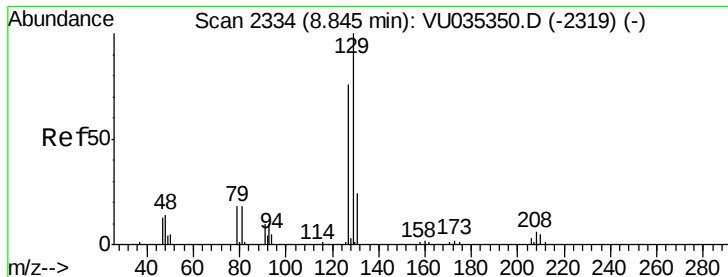
57 22.1 16.0 24.0

100 6.2 10.4 15.6#



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 0.908 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.26 min

Lab File: VU035360.D

Acq: 22 Oct 2019 13:15

Instrument :

MSVOA_U

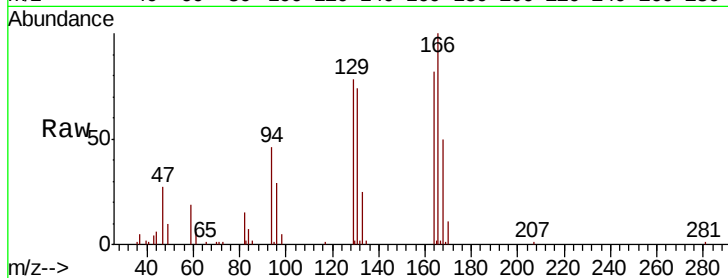
ClientSampled :

Tot Ion:129 Resp: 16052

Ion Ratio Lower Upper

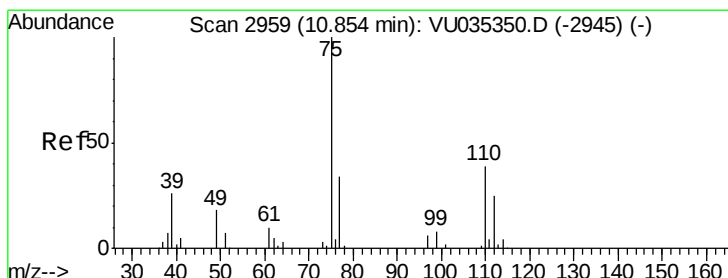
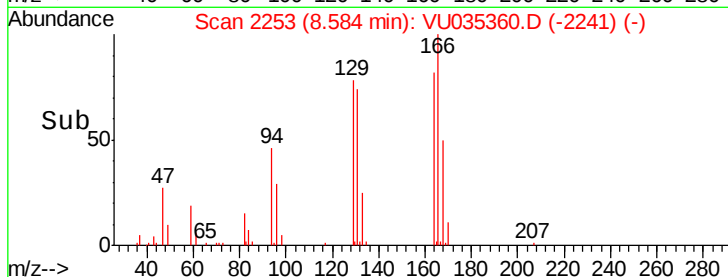
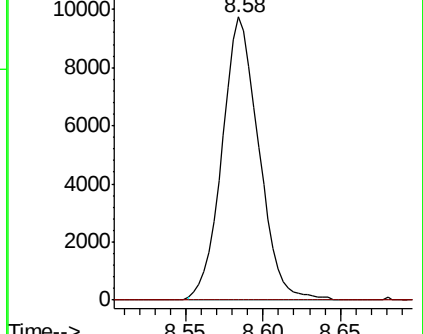
129 100

127 0.0 53.8 99.8#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#59

1,2,3-Trichloropropane

Concen: 0.832 ug/L

RT: 11.84 min Scan# 3267

Delta R.T. 0.99 min

Lab File: VU035360.D

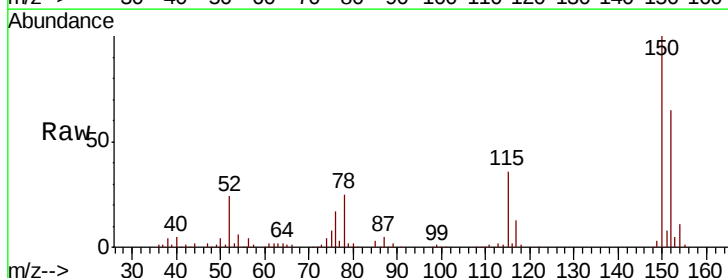
Acq: 22 Oct 2019 13:15

Tgt Ion: 75 Resp: 10887

Ion Ratio Lower Upper

75 100

77 36.7 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

