

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102219\
 Data File : VU035354.D
 Acq On : 22 Oct 2019 10:42
 Operator : JC/SP
 Sample : K5461-13
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 23 06:52:11 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	285552	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	283107	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	107434	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	103828	5.96	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	119.20%
7) Chloroethane-d5	1.93	69	91145	5.73	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	114.60%
11) 1,1-Dichloroethene-d2	2.60	63	137059	4.26	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	85.20%
20) 2-Butanone-d5	4.70	46	254353	50.83	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.66%
24) Chloroform-d	5.11	84	166035	5.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.40%
26) 1,2-Dichloroethane-d4	5.75	65	94557	5.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.20%
32) Benzene-d6	5.77	84	345976	5.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.80%
36) 1,2-Dichloropropane-d6	6.74	67	112686	5.48	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	109.60%
41) Toluene-d8	7.93	98	305198	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.60%
43) trans-1,3-Dichloropropene-	8.22	79	42680	4.28	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.60%
46) 2-Hexanone-d5	8.69	63	194242	44.15	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.30%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	93450	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.00%
64) 1,2-Dichlorobenzene-d4	12.22	152	97717	4.99	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	13123	0.530	ug/L #	32
12) 1,1-Dichloroethene	2.60	96	2240	0.122	ug/L #	1
13) Acetone	2.67	43	33738	9.693	ug/L	96
15) Methyl Acetate	3.00	43	6521	0.752	ug/L #	52
16) Methylene chloride	3.08	84	1512	0.069	ug/L #	67
17) Methyl tert-butyl Ether	3.43	73	87228	1.767	ug/L #	76
18) trans-1,2-Dichloroethene	3.39	96	6533	0.330	ug/L	97
19) 1,1-Dichloroethane	3.92	63	3269	0.091	ug/L	88
21) 2-Butanone	4.79	43	12838	2.263	ug/L #	72
22) cis-1,2-Dichloroethene	4.72	96	118521	5.416	ug/L	98
25) Chloroform	5.14	83	9798	0.249	ug/L	96
33) Benzene	5.82	78	12296	0.148	ug/L	100
34) Trichloroethene	6.58	95	352904	15.758	ug/L	98
35) Methylcyclohexane	6.74	83	26478	0.707	ug/L #	18
37) 1,2-Dichloropropane	6.74	63	12207	0.577	ug/L #	86
42) Toluene	8.01	91	23068	0.251	ug/L	92
47) Tetrachloroethene	8.58	164	14065	0.754	ug/L	97

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 23 06:48:58 2019
Response via : Initial Calibration

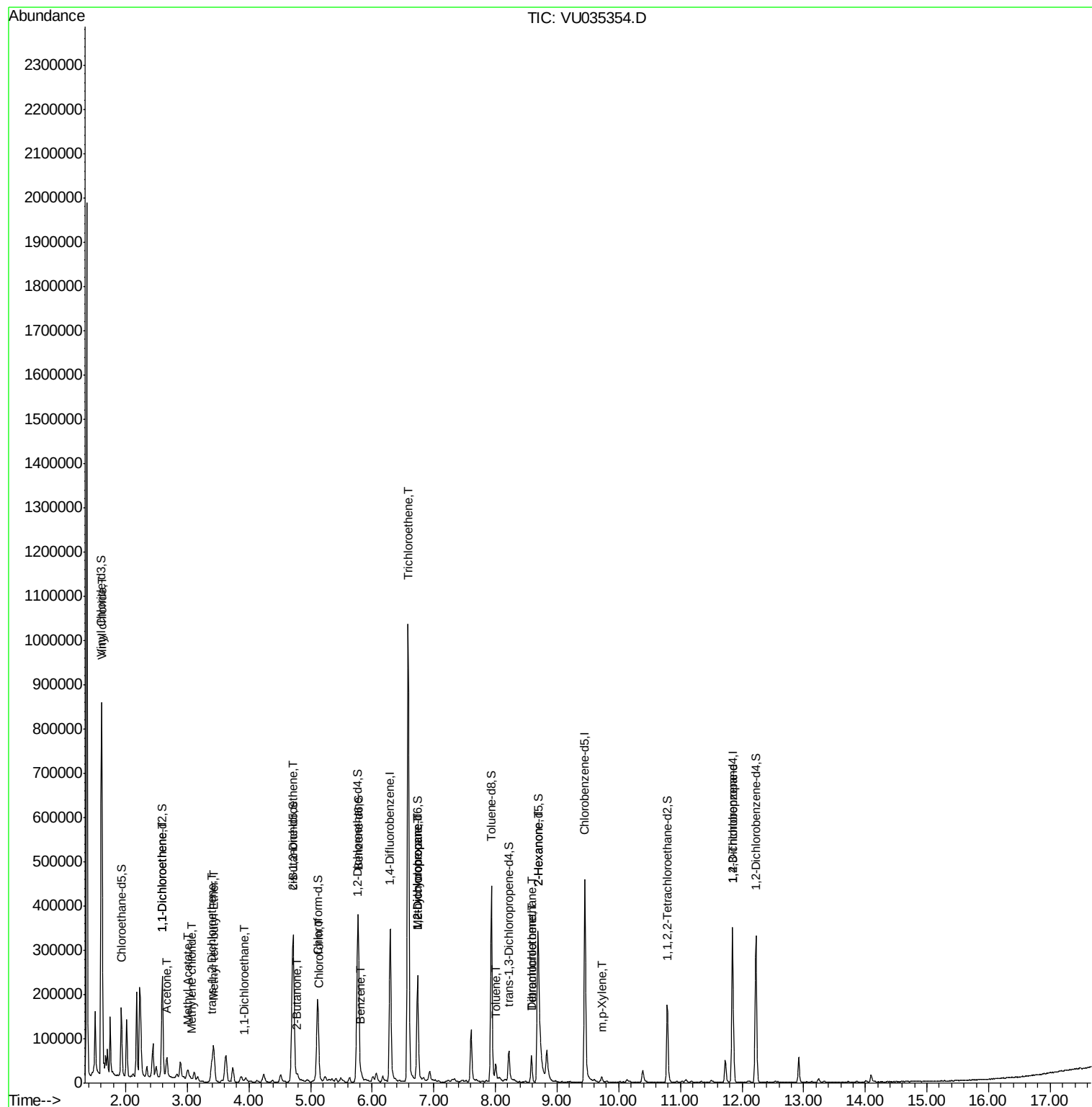
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.69	43	17371	1.735	ug/L #	68
49) Dibromochloromethane	8.59	129	13235	0.665	ug/L #	11
53) m,p-Xylene	9.73	106	3736	0.095	ug/L	85
59) 1,2,3-Trichloropropane	11.84	75	12465	0.846	ug/L #	82

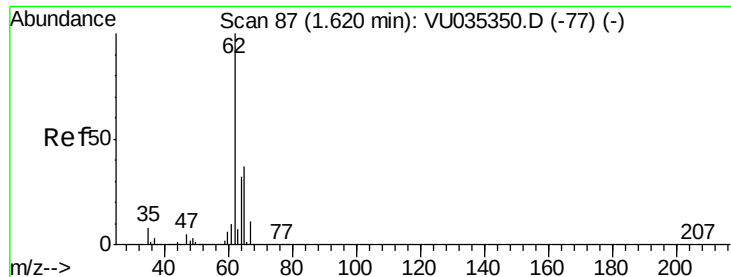
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.530 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VU035354.D

Acq: 22 Oct 2019 10:42

Instrument :

MSVOA_U

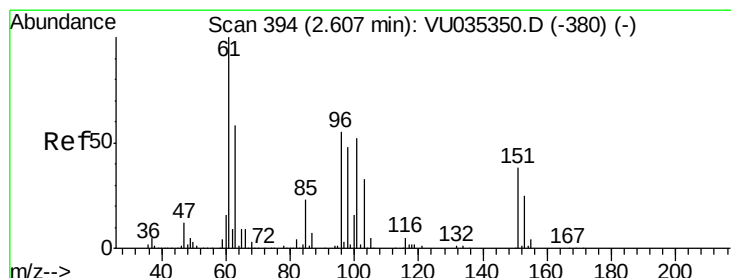
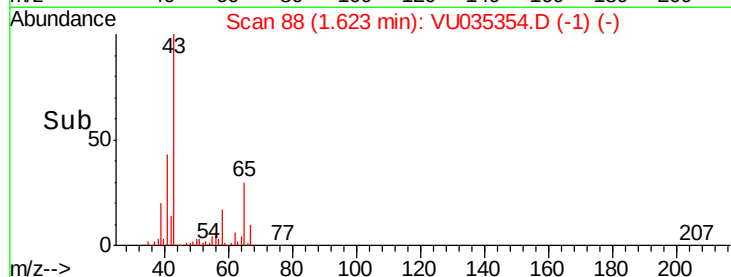
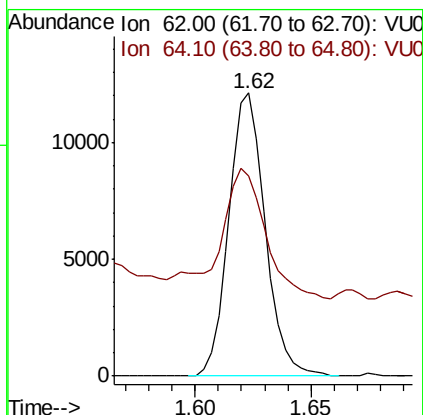
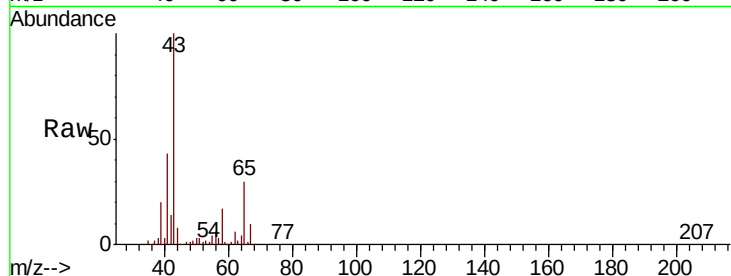
ClientSampleId :

Tot Ion: 62 Resp: 13123

Ion Ratio Lower Upper

62 100

64 70.9 22.9 42.5#



#12

1,1-Dichloroethene

Concen: 0.122 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU035354.D

Acq: 22 Oct 2019 10:42

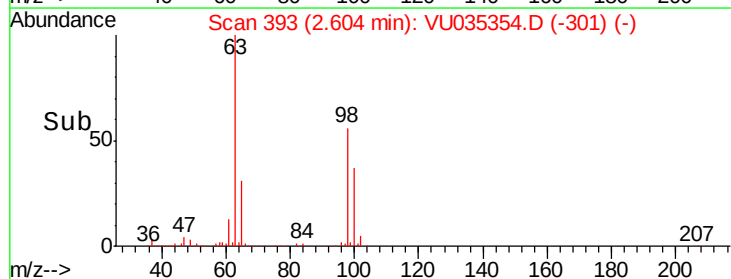
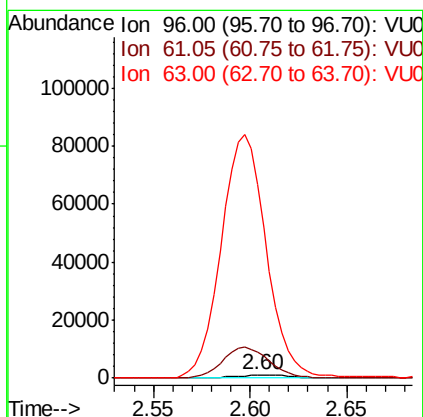
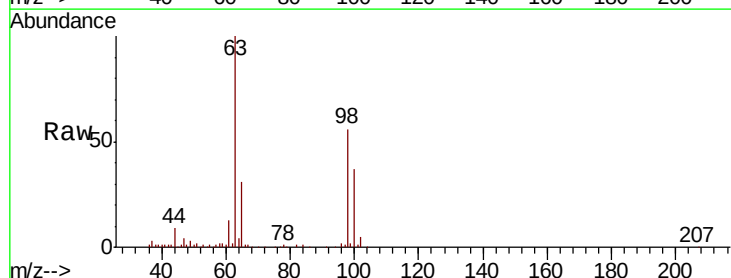
Tgt Ion: 96 Resp: 2240

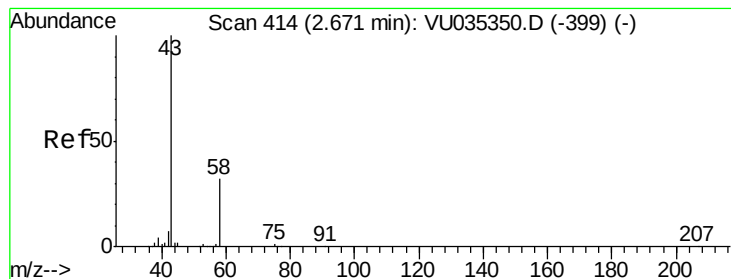
Ion Ratio Lower Upper

96 100

61 772.6 120.6 224.0#

63 5825.2 86.8 161.2#





#13

Acetone

Concen: 9.693 ug/L

RT: 2.67 min Scan# 414

Delta R.T. -0.00 min

Lab File: VU035354.D

Acq: 22 Oct 2019 10:42

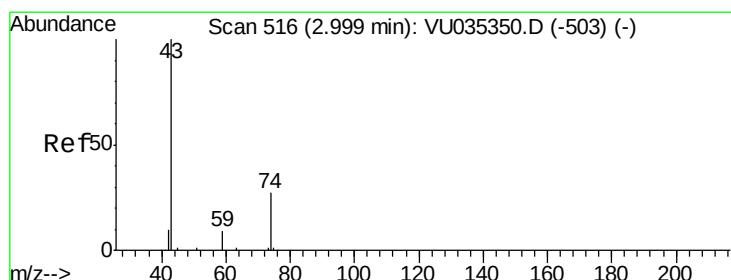
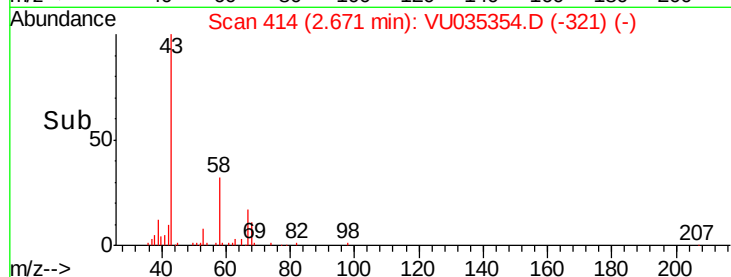
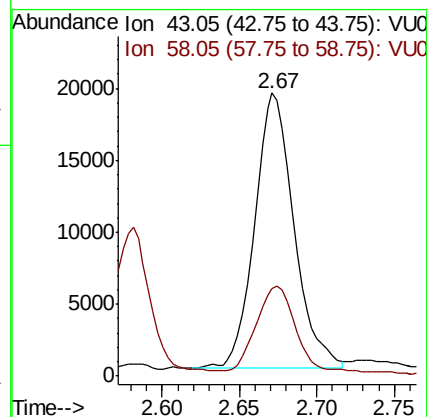
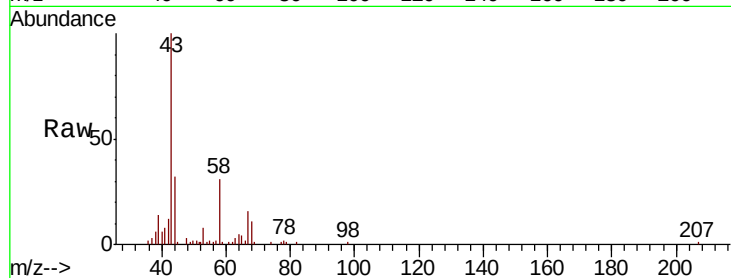
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 33738

Ion Ratio Lower Upper

43 100

58 32.9 0.0 61.8



#15

Methyl Acetate

Concen: 0.752 ug/L

RT: 3.00 min Scan# 515

Delta R.T. -0.00 min

Lab File: VU035354.D

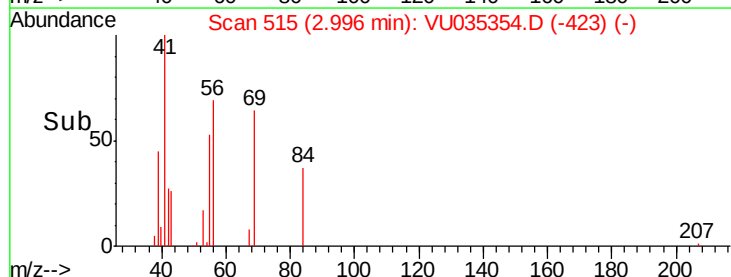
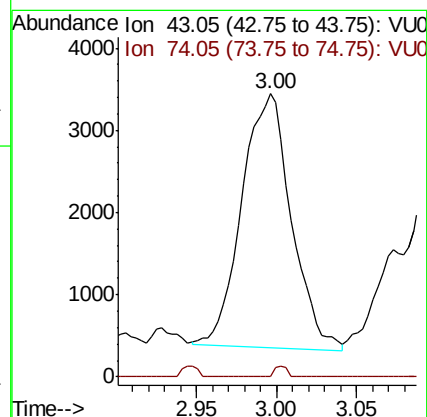
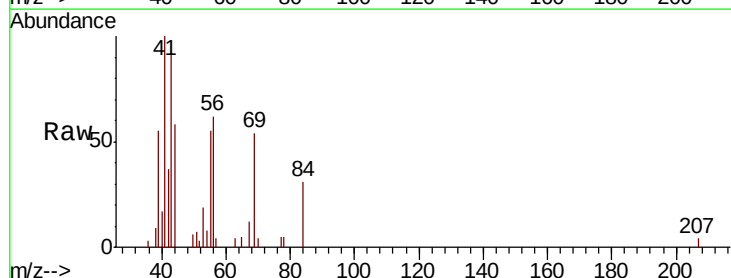
Acq: 22 Oct 2019 10:42

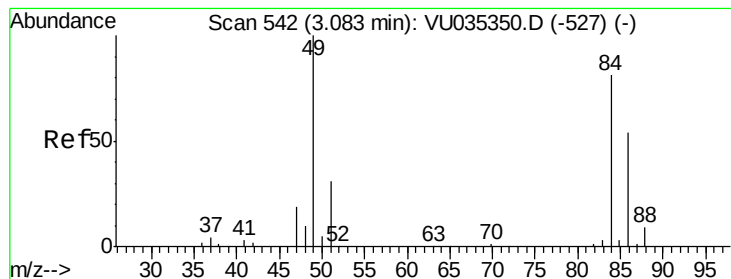
Tgt Ion: 43 Resp: 6521

Ion Ratio Lower Upper

43 100

74 1.1 20.3 30.5#





#16

Methylene chloride

Concen: 0.069 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.01 min

Lab File: VU035354.D

Acq: 22 Oct 2019 10:42

Instrument :

MSVOA_U

ClientSampled :

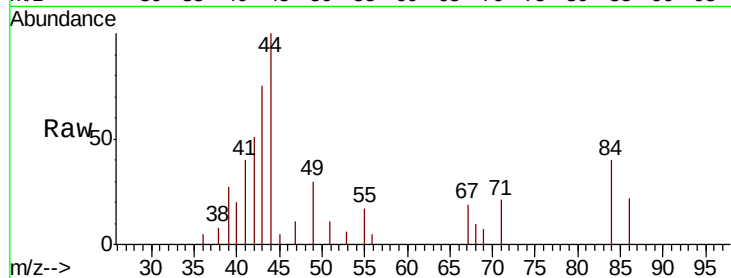
Tot Ion: 84 Resp: 1512

Ion Ratio Lower Upper

84 100

86 54.4 45.4 84.2

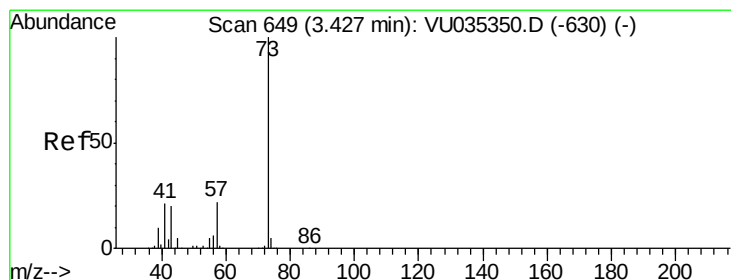
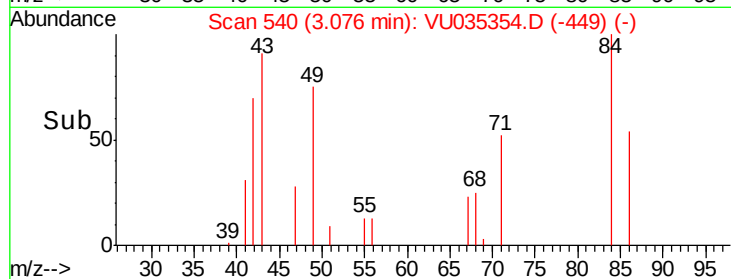
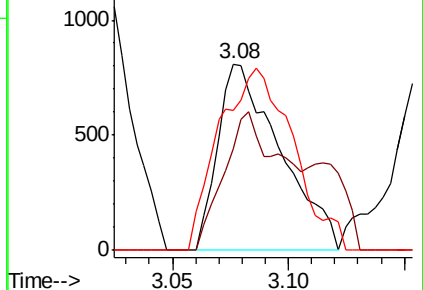
49 74.8 86.8 161.2#



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: 1.767 ug/L

RT: 3.43 min Scan# 649

Delta R.T. -0.00 min

Lab File: VU035354.D

Acq: 22 Oct 2019 10:42

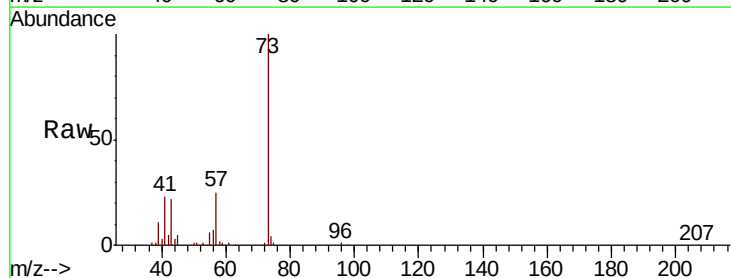
Tgt Ion: 73 Resp: 87228

Ion Ratio Lower Upper

73 100

43 24.7 16.0 24.0#

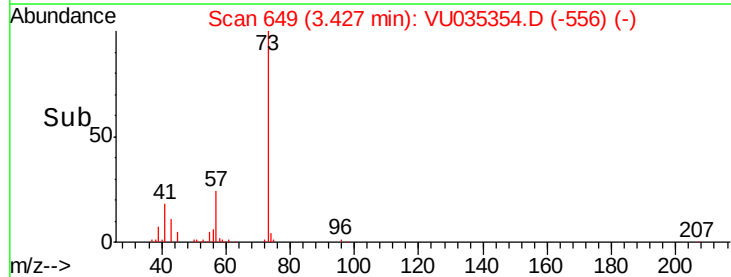
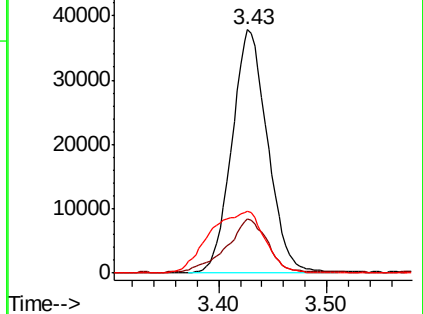
57 39.1 17.4 26.2#

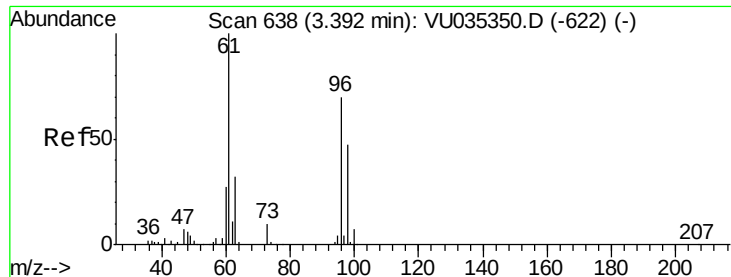


Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0





#18

trans-1,2-Dichloroethene

Concen: 0.330 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.00 min

Lab File: VU035354.D

Acq: 22 Oct 2019 10:42

Instrument :

MSVOA_U

ClientSampleId :

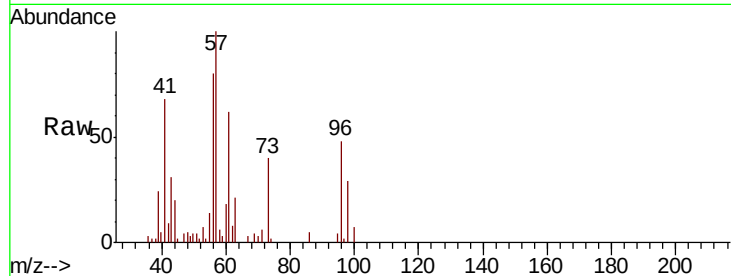
Tot Ion: 96 Resp: 6533

Ion Ratio Lower Upper

96 100

61 129.1 93.0 172.6

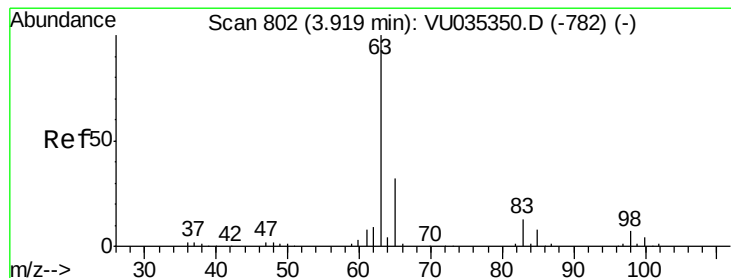
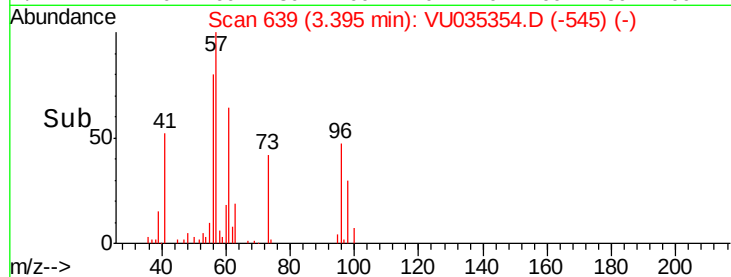
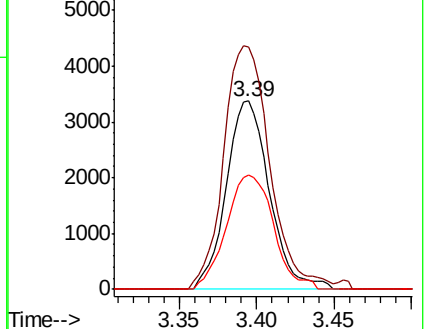
98 61.0 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU035354.D (-545) (-)

Ion 61.05 (60.75 to 61.75): VU035354.D (-545) (-)

Ion 97.95 (97.65 to 98.65): VU035354.D (-545) (-)



#19

1,1-Dichloroethane

Concen: 0.091 ug/L

RT: 3.92 min Scan# 802

Delta R.T. -0.00 min

Lab File: VU035354.D

Acq: 22 Oct 2019 10:42

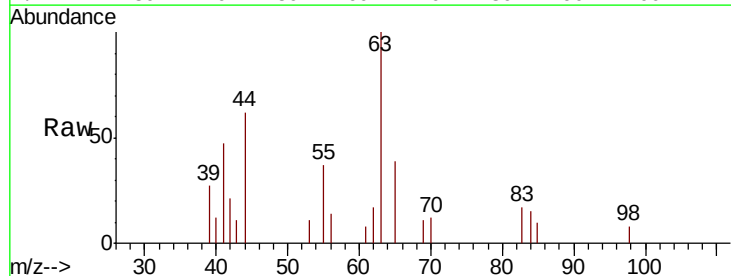
Tgt Ion: 63 Resp: 3269

Ion Ratio Lower Upper

63 100

65 39.4 22.4 41.6

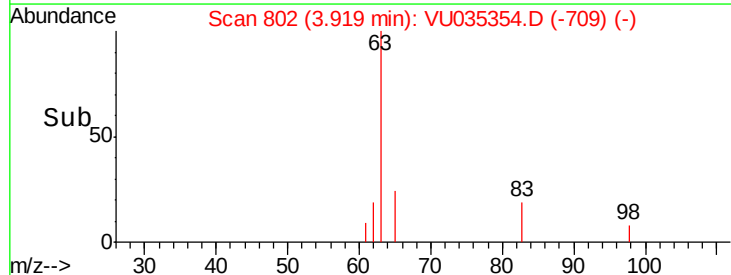
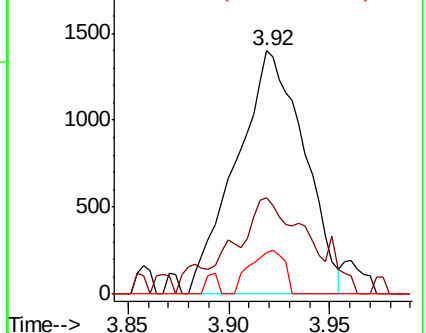
83 16.9 9.3 17.3

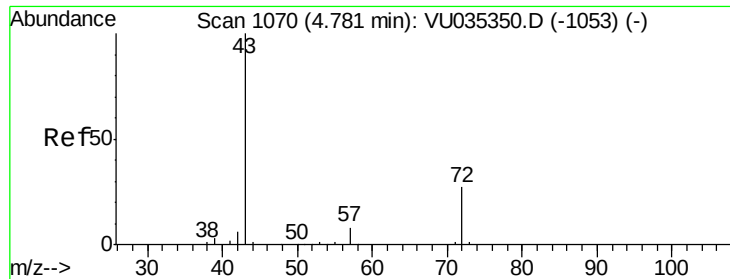


Abundance Ion 63.10 (62.80 to 63.80): VU035354.D (-709) (-)

Ion 65.10 (64.80 to 65.80): VU035354.D (-709) (-)

Ion 83.05 (82.75 to 83.75): VU035354.D (-709) (-)





#21

2-Butanone

Concen: 2.263 ug/L

RT: 4.79 min Scan# 1073

Delta R.T. 0.01 min

Lab File: VU035354.D

Acq: 22 Oct 2019 10:42

Instrument :

MSVOA_U

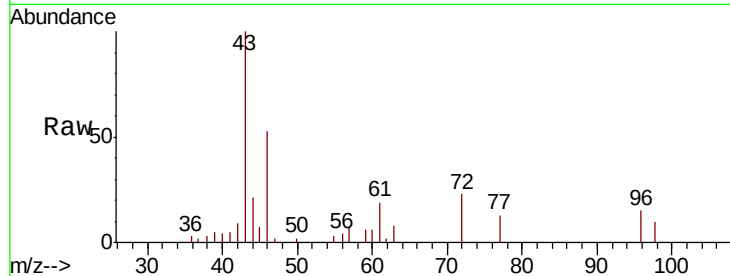
ClientSampleId :

Tot Ion: 43 Resp: 12838

Ion Ratio Lower Upper

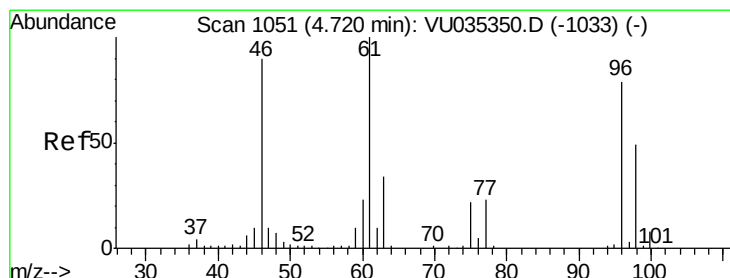
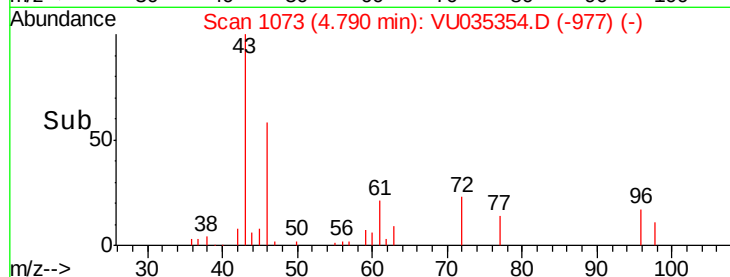
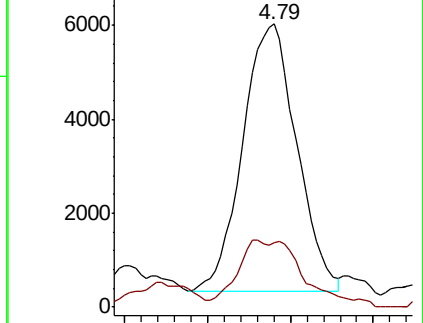
43 100

72 12.4 13.6 40.8#



Abundance Ion 43.05 (42.75 to 43.75): VU035350.D (-1053) (-)

Ion 72.10 (71.80 to 72.80): VU035350.D (-1053) (-)



#22

cis-1,2-Dichloroethene

Concen: 5.416 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VU035354.D

Acq: 22 Oct 2019 10:42

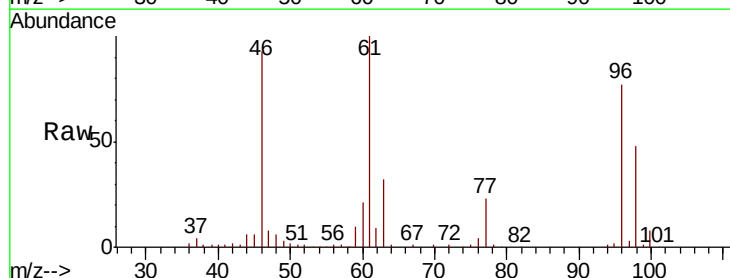
Tgt Ion: 96 Resp: 118521

Ion Ratio Lower Upper

96 100

61 130.5 89.7 166.5

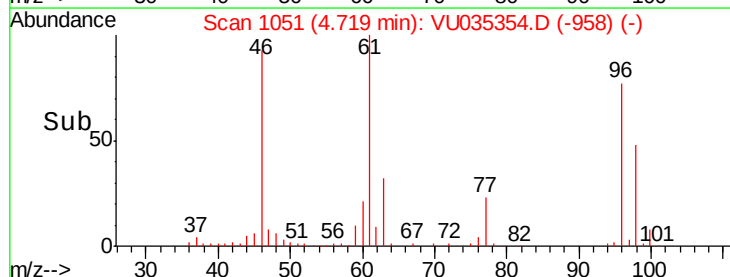
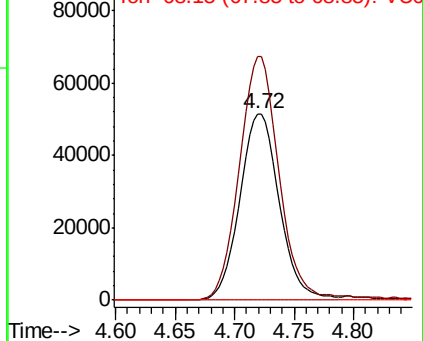
68 0.0 0.0 0.0

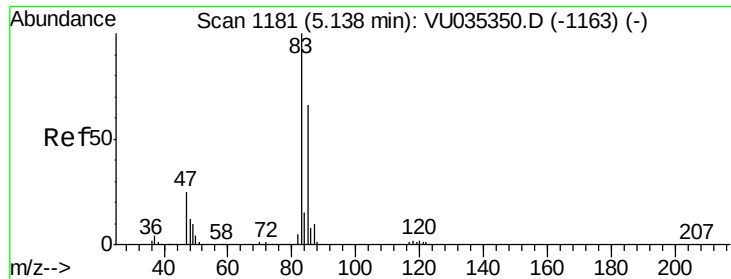


Abundance Ion 96.00 (95.70 to 96.70): VU035350.D (-1033) (-)

Ion 61.05 (60.75 to 61.75): VU035350.D (-1033) (-)

Ion 68.15 (67.85 to 68.85): VU035350.D (-1033) (-)

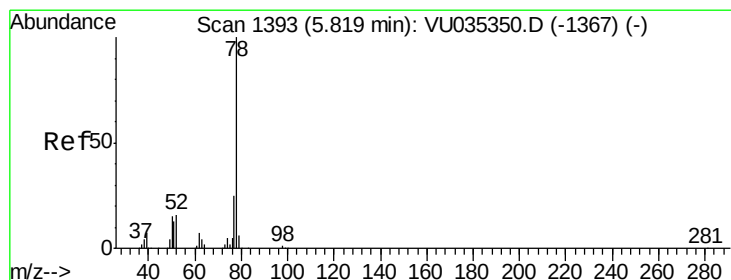
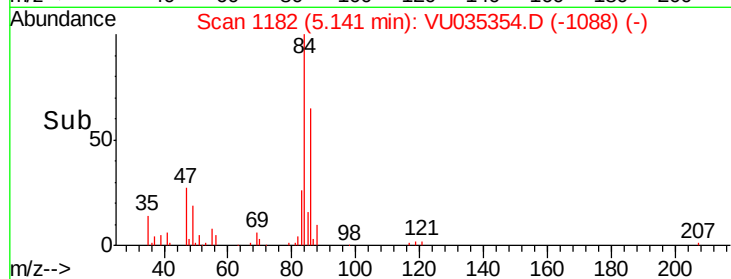
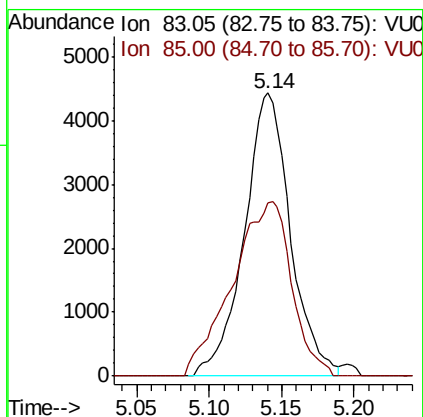
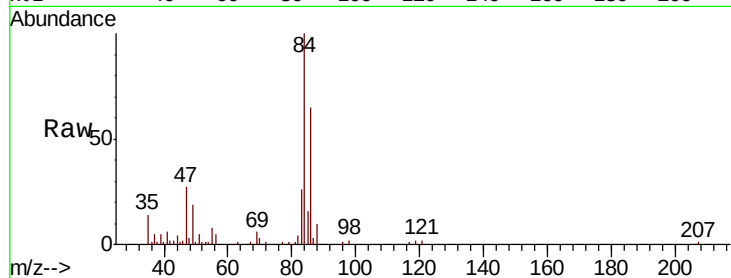




#25
Chloroform
Concen: 0.249 ug/L
RT: 5.14 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU035354.D
Acq: 22 Oct 2019 10:42

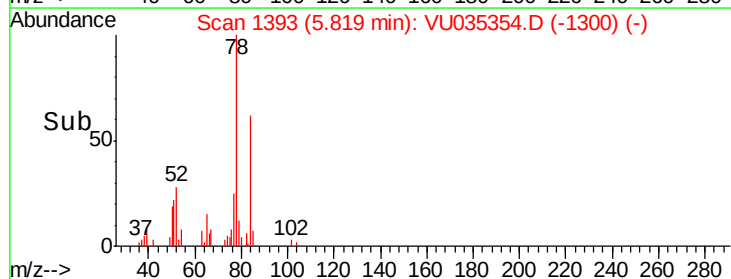
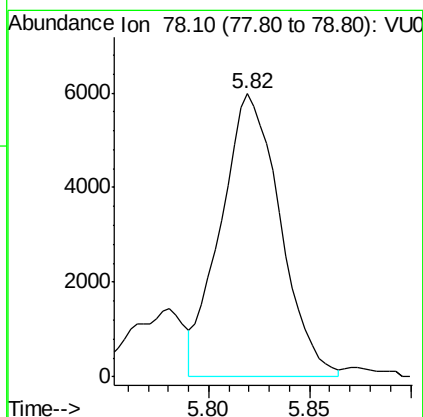
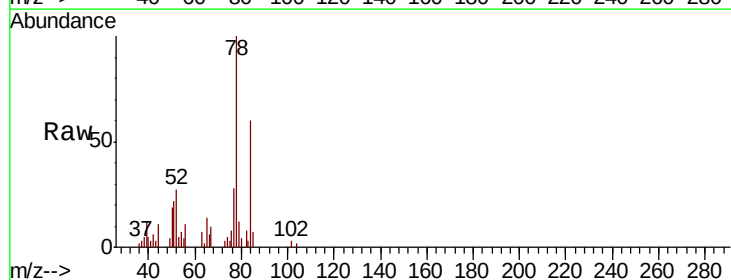
Instrument :
MSVOA_U
ClientSampleId :

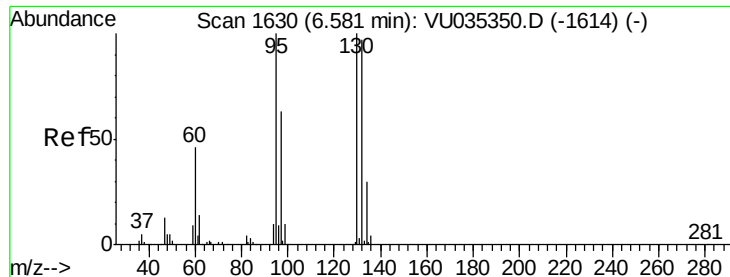
Tot Ion: 83 Resp: 9798
Ion Ratio Lower Upper
83 100
85 61.2 45.1 83.9



#33
Benzene
Concen: 0.148 ug/L
RT: 5.82 min Scan# 1393
Delta R.T. -0.00 min
Lab File: VU035354.D
Acq: 22 Oct 2019 10:42

Tgt Ion: 78 Resp: 12296





#34

Trichloroethene

Concen: 15.758 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU035354.D

Acq: 22 Oct 2019 10:42

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 352904

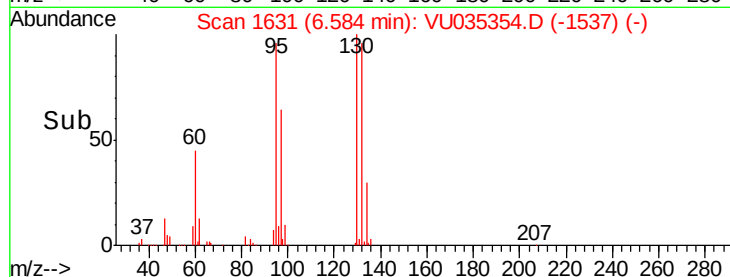
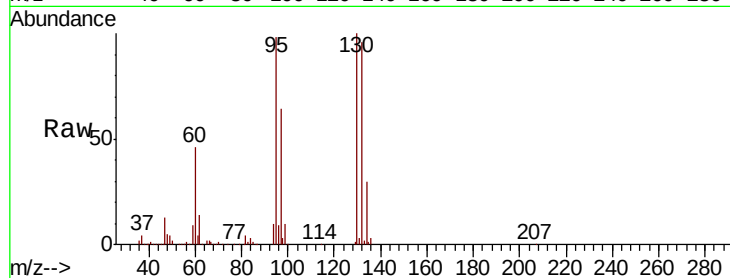
Ion Ratio Lower Upper

95 100

97 65.6 46.6 86.6

132 98.6 68.7 127.7

130 102.4 73.9 137.3

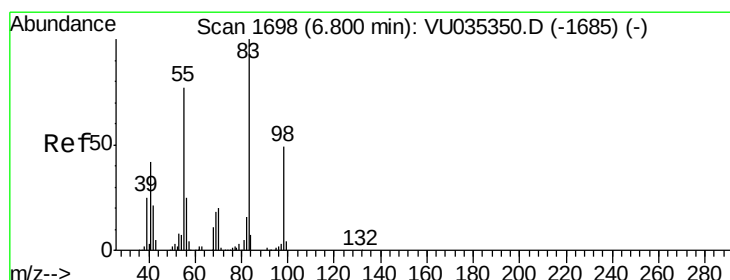
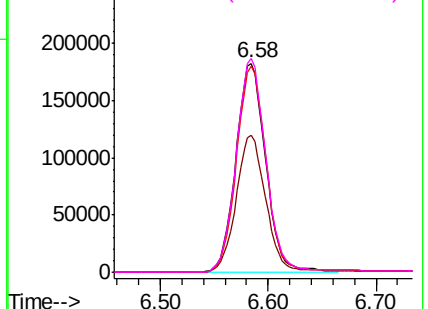


Abundance Ion 95.00 (94.70 to 95.70): VU0

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



#35

Methylcyclohexane

Concen: 0.707 ug/L

RT: 6.74 min Scan# 1678

Delta R.T. -0.06 min

Lab File: VU035354.D

Acq: 22 Oct 2019 10:42

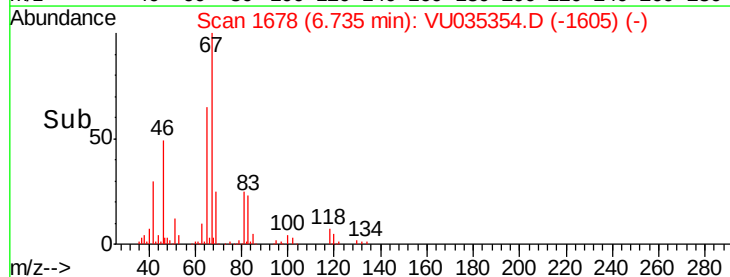
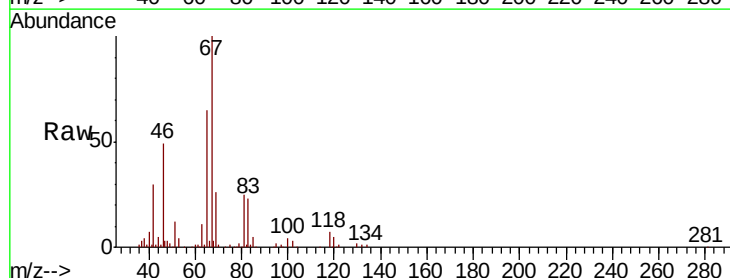
Tgt Ion: 83 Resp: 26478

Ion Ratio Lower Upper

83 100

55 0.5 60.4 90.6#

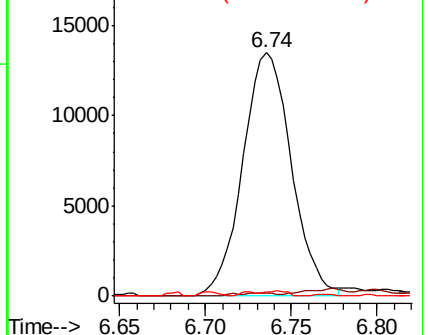
98 0.0 39.5 59.3#

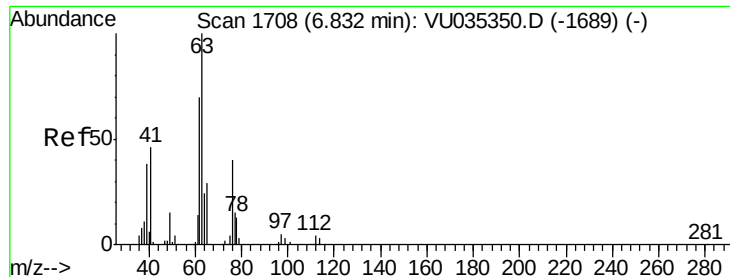


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

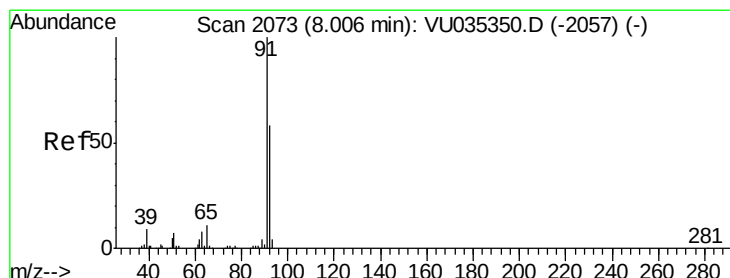
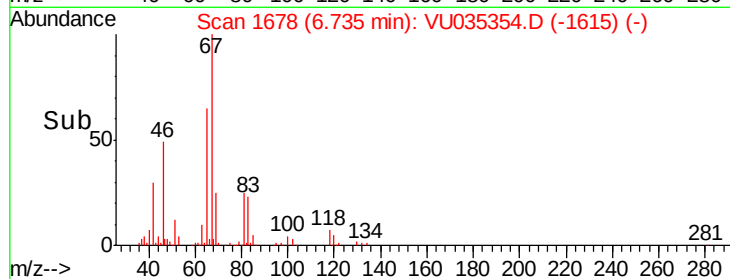
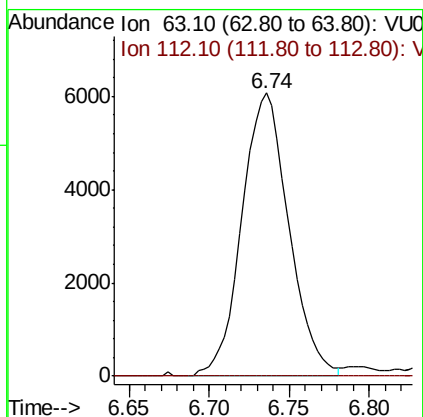
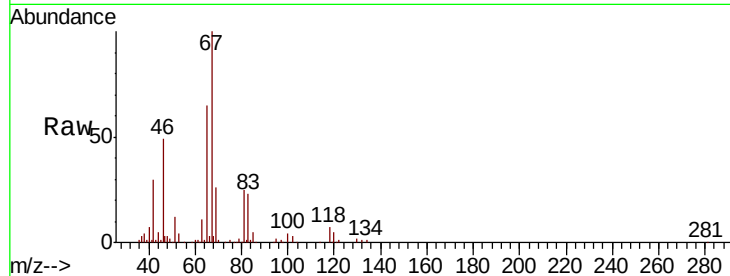




#37
 1,2-Dichloropropane
 Concen: 0.577 ug/L
 RT: 6.74 min Scan# 1678
 Delta R.T. -0.10 min
 Lab File: VU035354.D
 Acq: 22 Oct 2019 10:42

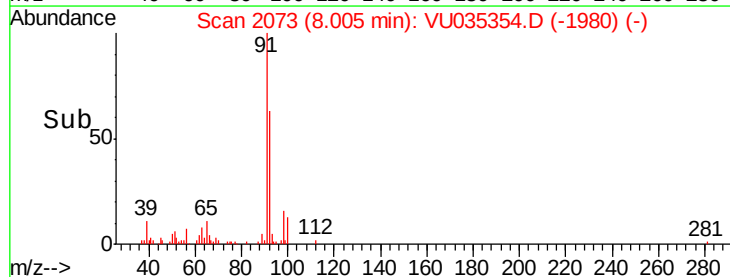
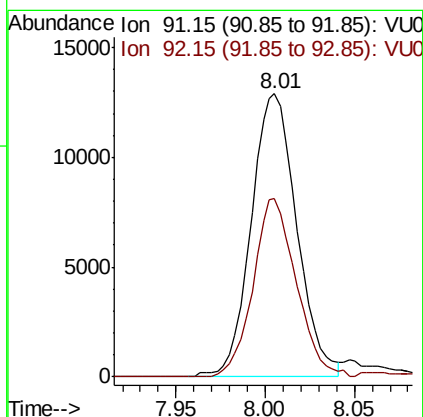
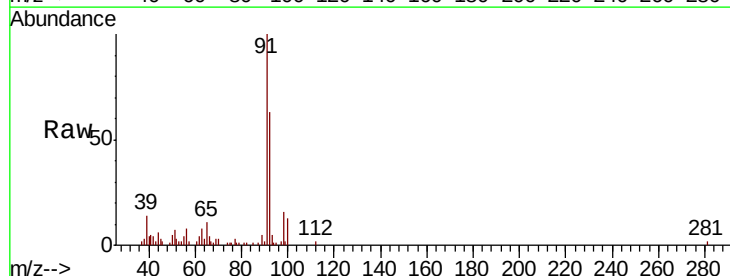
Instrument :
 MSVOA_U
 ClientSampleId :

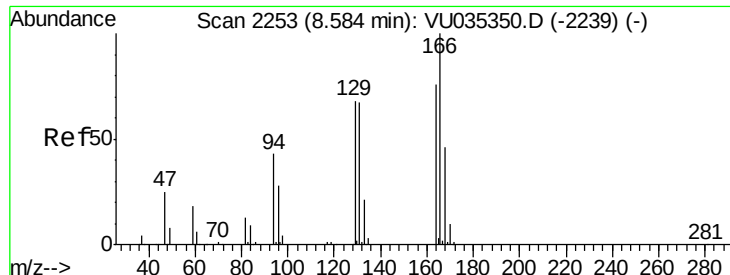
Tot Ion: 63 Resp: 12207
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.7 5.5#



#42
 Toluene
 Concen: 0.251 ug/L
 RT: 8.01 min Scan# 2073
 Delta R.T. -0.00 min
 Lab File: VU035354.D
 Acq: 22 Oct 2019 10:42

Tgt Ion: 91 Resp: 23068
 Ion Ratio Lower Upper
 91 100
 92 62.9 39.9 74.1

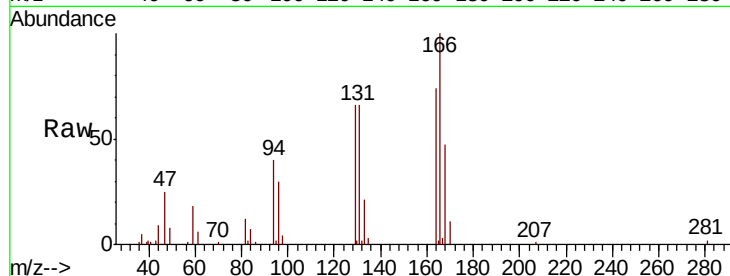




#47
Tetrachloroethene
Concen: 0.754 ug/L
RT: 8.58 min Scan# 2253
Delta R.T. -0.00 min
Lab File: VU035354.D
Acq: 22 Oct 2019 10:42

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
129	89.5	65.2	121.0
131	89.8	62.9	116.9
166	135.2	91.5	169.9



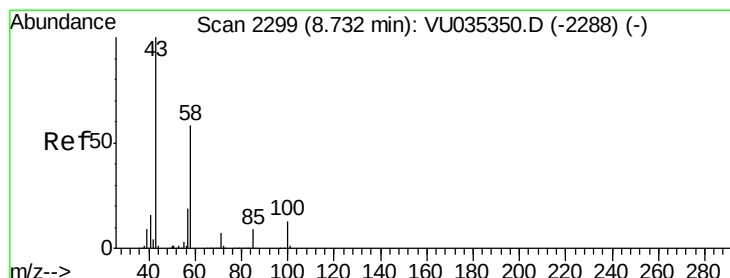
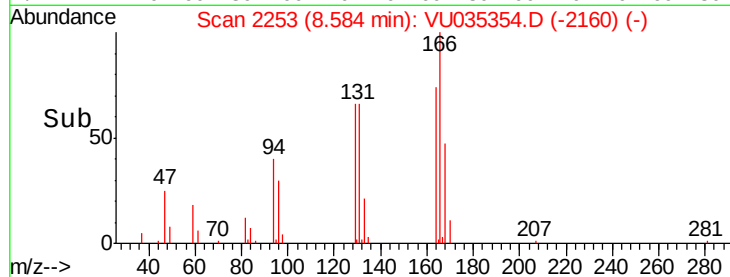
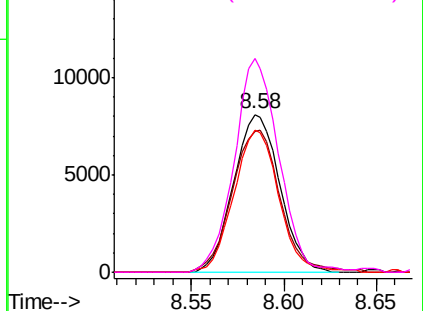
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

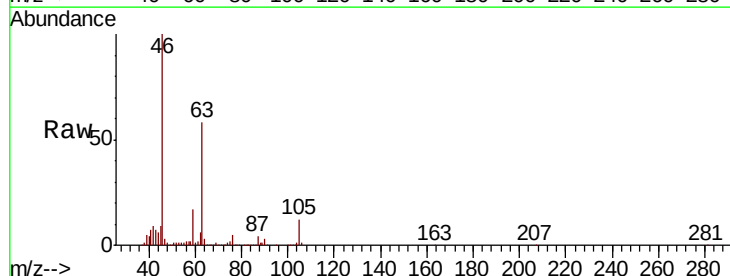
Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48
2-Hexanone
Concen: 1.735 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. -0.04 min
Lab File: VU035354.D
Acq: 22 Oct 2019 10:42

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.1	45.1	67.7#
57	35.3	16.0	24.0#
100	0.3	10.4	15.6#



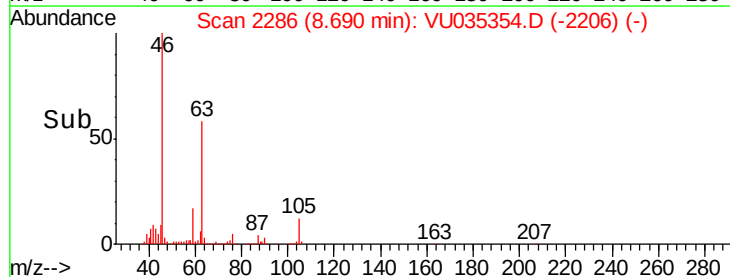
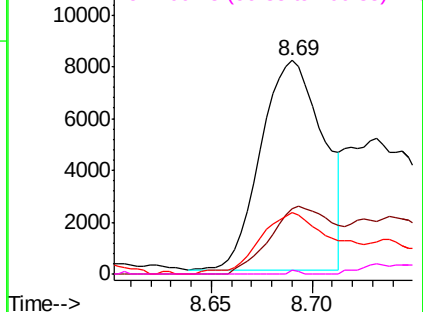
Abundance

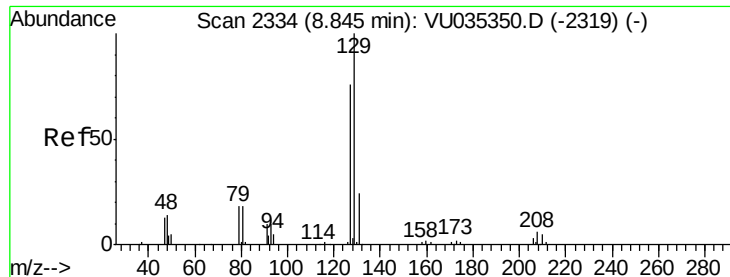
Ion 43.05 (42.75 to 43.75): VU0

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: 0.665 ug/L

RT: 8.59 min Scan# 2254

Delta R.T. -0.26 min

Lab File: VU035354.D

Acq: 22 Oct 2019 10:42

Instrument :

MSVOA_U

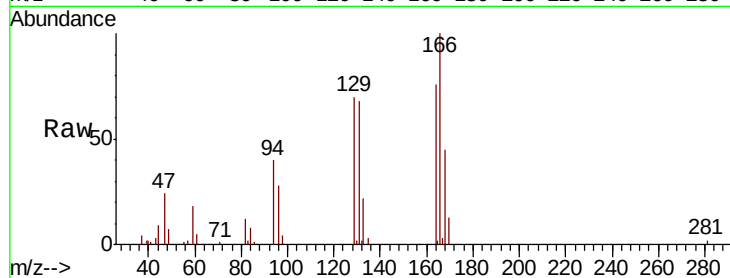
ClientSampleId :

Tot Ion:129 Resp: 13235

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

8.59

8000

6000

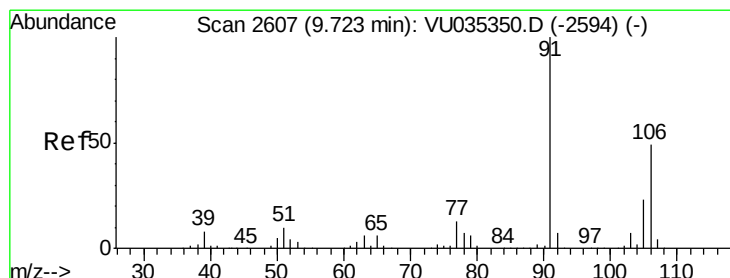
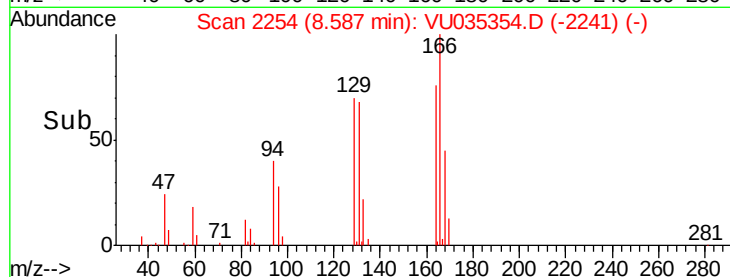
4000

2000

0

8.55 8.60 8.65

Time-->



#53

m,p-Xylene

Concen: 0.095 ug/L

RT: 9.73 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VU035354.D

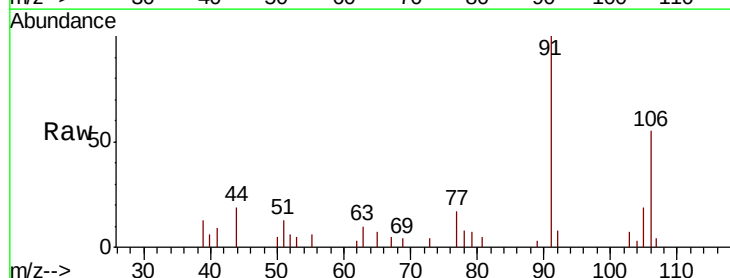
Acq: 22 Oct 2019 10:42

Tgt Ion:106 Resp: 3736

Ion Ratio Lower Upper

106 100

91 180.4 142.0 263.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

9.73

4000

3000

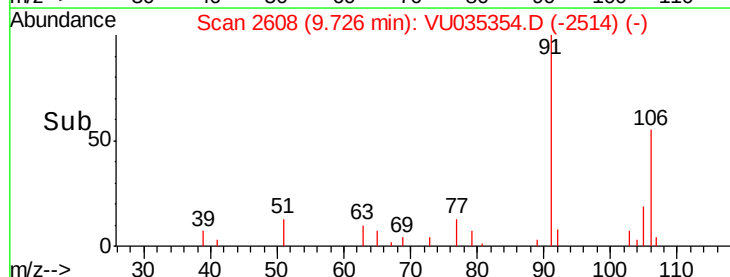
2000

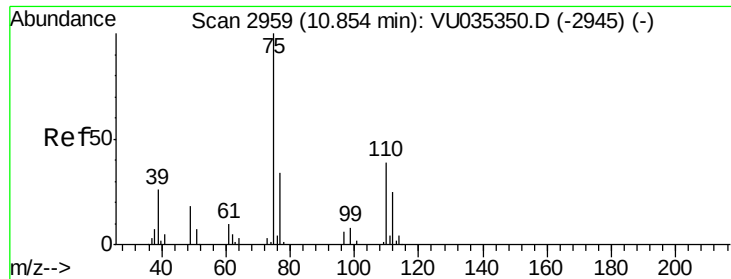
1000

0

9.70 9.75 9.80

Time-->





#59

1,2,3-Trichloropropane

Concen: 0.846 ug/L

RT: 11.84 min Scan# 3267

Delta R.T. 0.99 min

Lab File: VU035354.D

Acq: 22 Oct 2019 10:42

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 12465

Ion Ratio Lower Upper

75 100

77 42.7 26.2 39.2#

