

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102219\
 Data File : VU035364.D
 Acq On : 22 Oct 2019 14:49
 Operator : JC/SP
 Sample : K5461-22
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 23 06:53:44 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	270775	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	266671	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	93723	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	107800	6.53	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	130.60%#
7) Chloroethane-d5	1.93	69	92063	6.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	122.00%
11) 1,1-Dichloroethene-d2	2.59	63	141680	4.64	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.80%
20) 2-Butanone-d5	4.71	46	187029	39.42	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	78.84%
24) Chloroform-d	5.11	84	153088	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.40%
26) 1,2-Dichloroethane-d4	5.75	65	92965	5.56	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.20%
32) Benzene-d6	5.77	84	343086	5.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	112.60%
36) 1,2-Dichloropropane-d6	6.74	67	109912	5.68	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	113.60%
41) Toluene-d8	7.93	98	299717	5.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.80%
43) trans-1,3-Dichloropropene-	8.22	79	38541	4.10	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.00%
46) 2-Hexanone-d5	8.69	63	171506	41.38	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	82.76%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	87397	5.06	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.20%
64) 1,2-Dichlorobenzene-d4	12.22	152	89454	5.24	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	299506	12.757	ug/L	99
12) 1,1-Dichloroethene	2.61	96	6840	0.393	ug/L #	1
13) Acetone	2.67	43	7402	2.243	ug/L	88
15) Methyl Acetate	2.99	43	1482	0.180	ug/L #	50
16) Methylene chloride	3.08	84	4504	0.215	ug/L	91
17) Methyl tert-butyl Ether	3.43	73	77199	1.649	ug/L #	91
18) trans-1,2-Dichloroethene	3.39	96	37551	2.000	ug/L	96
19) 1,1-Dichloroethane	3.92	63	43421	1.279	ug/L	98
22) cis-1,2-Dichloroethene	4.72	96	1700323	81.943	ug/L	98
25) Chloroform	5.14	83	18080	0.485	ug/L	94
33) Benzene	5.82	78	27601	0.352	ug/L	100
34) Trichloroethene	6.58	95	2172246	102.976	ug/L	98
42) Toluene	8.01	91	32128	0.371	ug/L	99
47) Tetrachloroethene	8.58	164	41243	2.347	ug/L	99
48) 2-Hexanone	8.74	43	11361	1.205	ug/L #	86
49) Dibromochloromethane	8.58	129	37038	1.976	ug/L #	11
52) Ethylbenzene	9.60	91	7853	0.080	ug/L	94

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

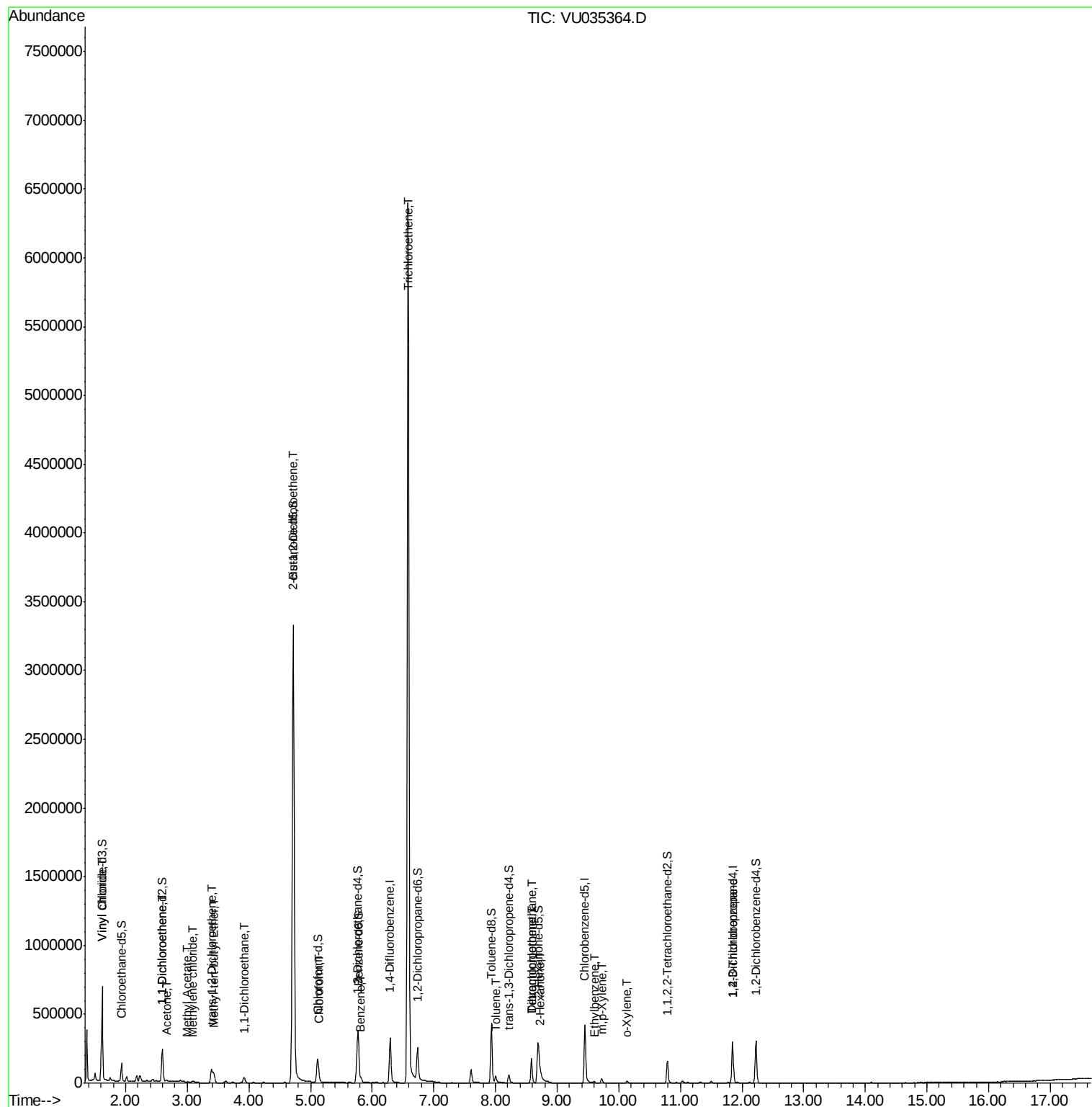
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.73	106	9665	0.260	ug/L	96
54) o-Xylene	10.13	106	3966	0.109	ug/L	79
59) 1,2,3-Trichloropropane	11.84	75	11029	0.795	ug/L #	87

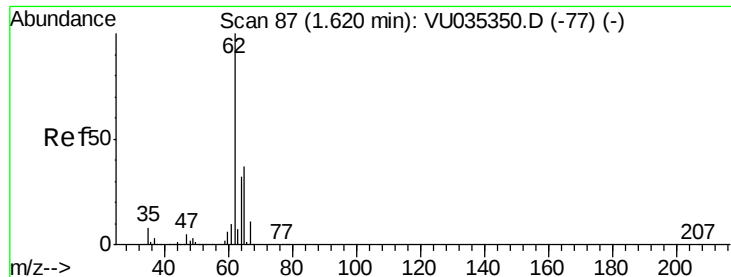
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 23 06:48:58 2019
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 12.757 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035364.D

Acq: 22 Oct 2019 14:49

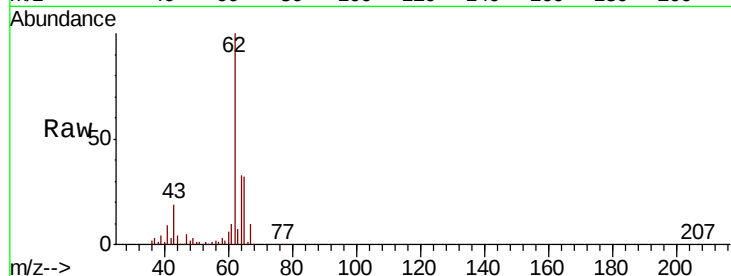
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 299506

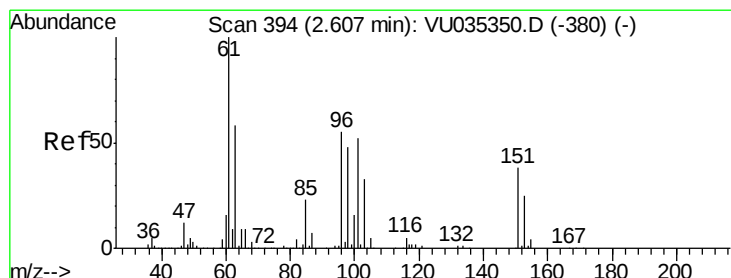
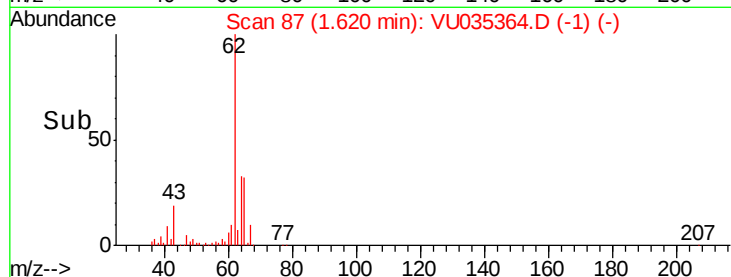
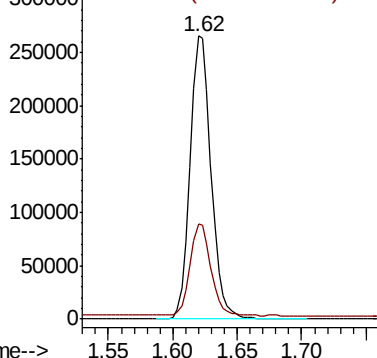
Ion Ratio Lower Upper

62 100

64 33.4 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU0
Ion 64.10 (63.80 to 64.80): VU0



#12

1,1-Dichloroethene

Concen: 0.393 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035364.D

Acq: 22 Oct 2019 14:49

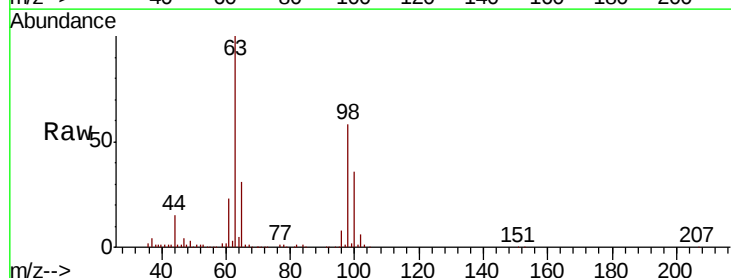
Tgt Ion: 96 Resp: 6840

Ion Ratio Lower Upper

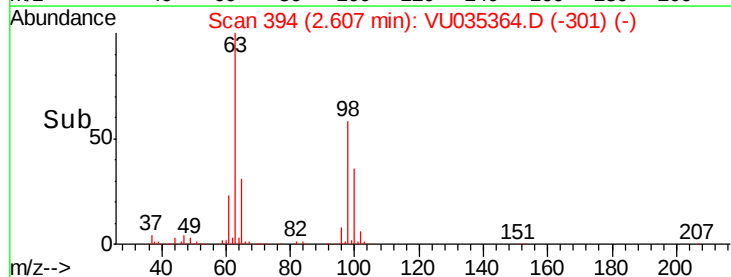
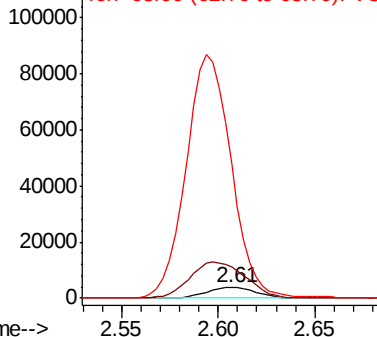
96 100

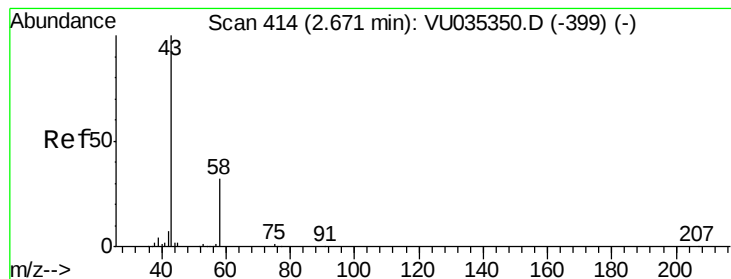
61 289.5 120.6 224.0#

63 1255.1 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: 2.243 ug/L

RT: 2.67 min Scan# 414

Delta R.T. -0.00 min

Lab File: VU035364.D

Acq: 22 Oct 2019 14:49

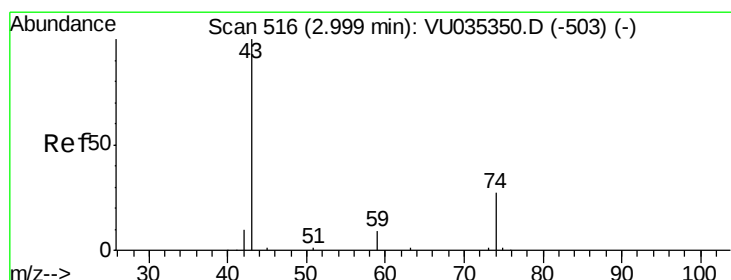
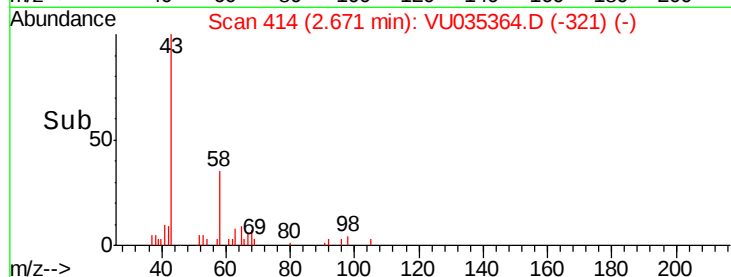
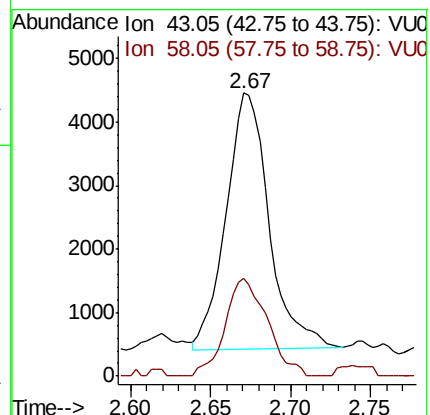
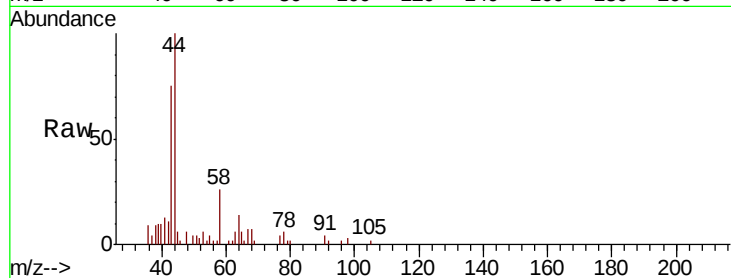
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 7402

Ion Ratio Lower Upper

43 100

58 37.4 0.0 61.8



#15

Methyl Acetate

Concen: 0.180 ug/L

RT: 2.99 min Scan# 513

Delta R.T. -0.01 min

Lab File: VU035364.D

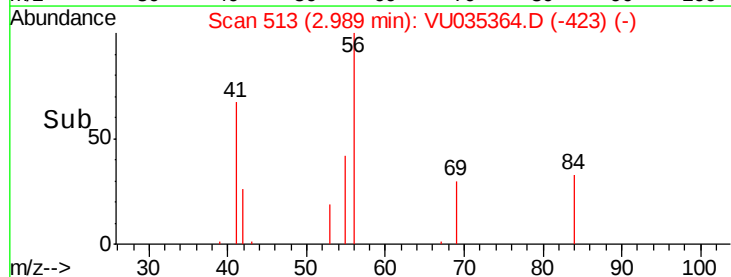
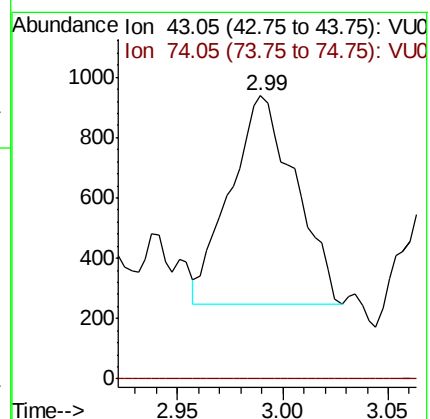
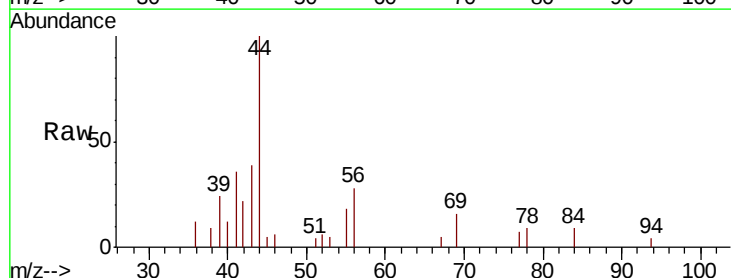
Acq: 22 Oct 2019 14:49

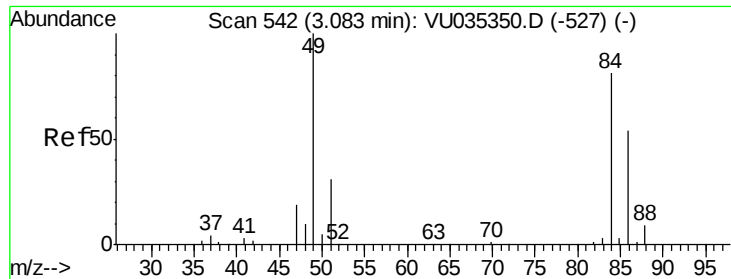
Tgt Ion: 43 Resp: 1482

Ion Ratio Lower Upper

43 100

74 0.0 20.3 30.5#

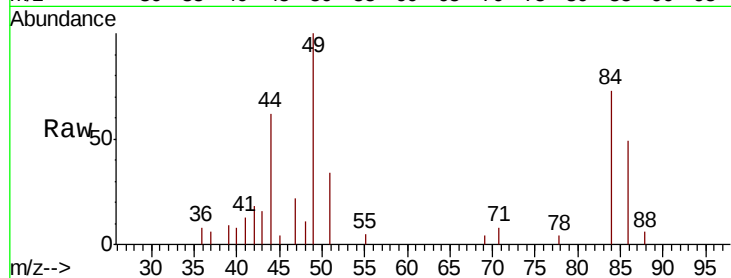




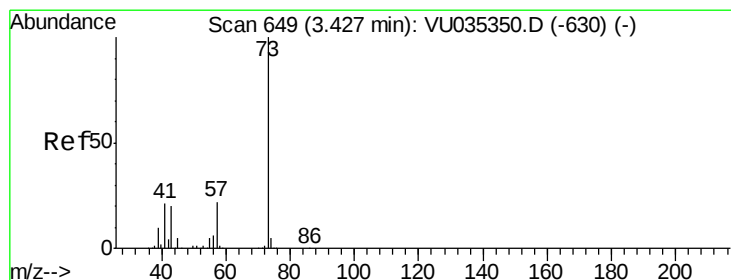
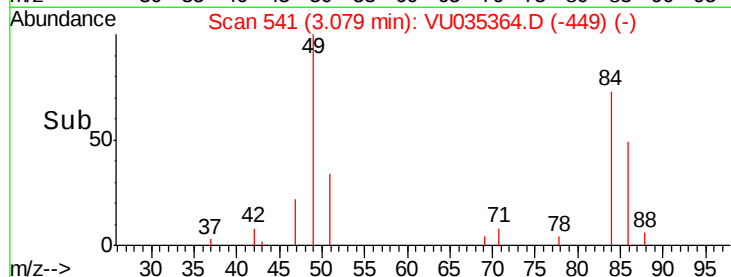
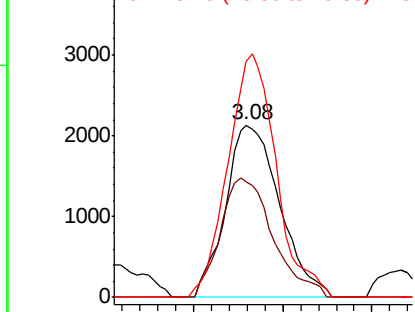
#16
Methylene chloride
Concen: 0.215 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU035364.D
Acq: 22 Oct 2019 14:49

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 84 Resp: 4504
Ion Ratio Lower Upper
84 100
86 67.3 45.4 84.2
49 137.2 86.8 161.2

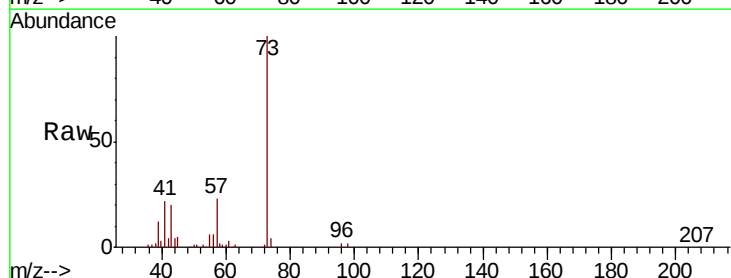


Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0

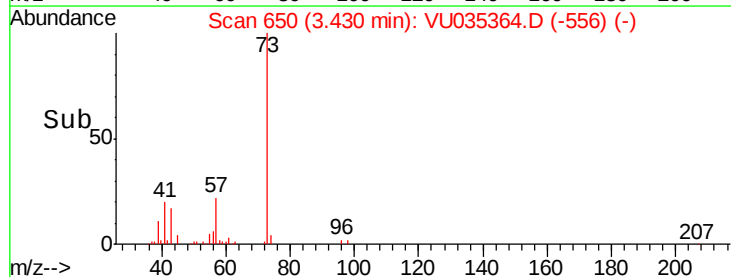
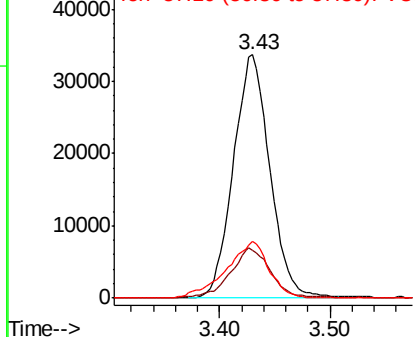


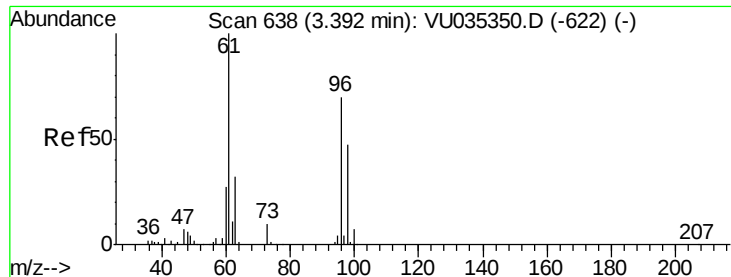
#17
Methyl tert-butyl Ether
Concen: 1.649 ug/L
RT: 3.43 min Scan# 650
Delta R.T. 0.00 min
Lab File: VU035364.D
Acq: 22 Oct 2019 14:49

Tgt Ion: 73 Resp: 77199
Ion Ratio Lower Upper
73 100
43 22.7 16.0 24.0
57 27.1 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: 2.000 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.00 min

Lab File: VU035364.D

Acq: 22 Oct 2019 14:49

Instrument :

MSVOA_U

ClientSampleId :

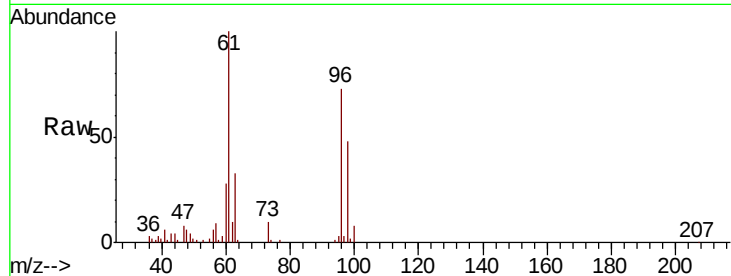
Tot Ion: 96 Resp: 37551

Ion Ratio Lower Upper

96 100

61 137.1 93.0 172.6

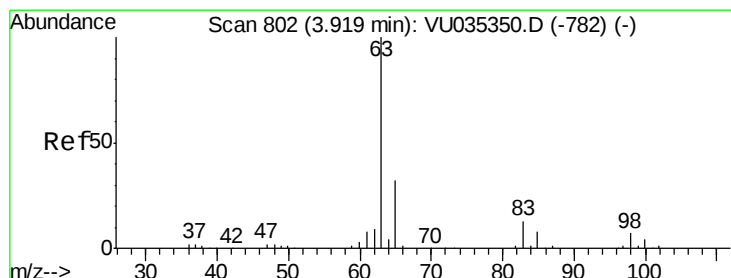
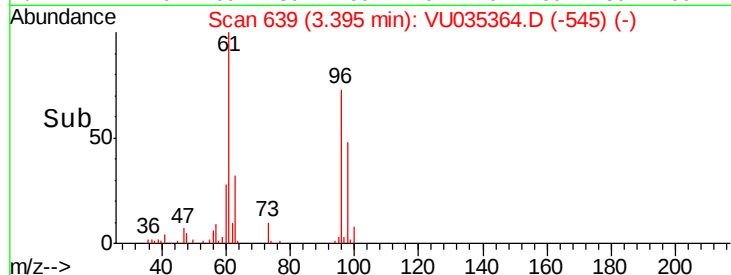
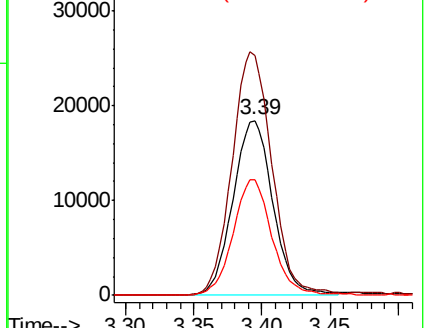
98 66.1 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU035350.D (-622) (-)

Ion 61.05 (60.75 to 61.75): VU035350.D (-622) (-)

Ion 97.95 (97.65 to 98.65): VU035350.D (-622) (-)



#19

1,1-Dichloroethane

Concen: 1.279 ug/L

RT: 3.92 min Scan# 802

Delta R.T. -0.00 min

Lab File: VU035364.D

Acq: 22 Oct 2019 14:49

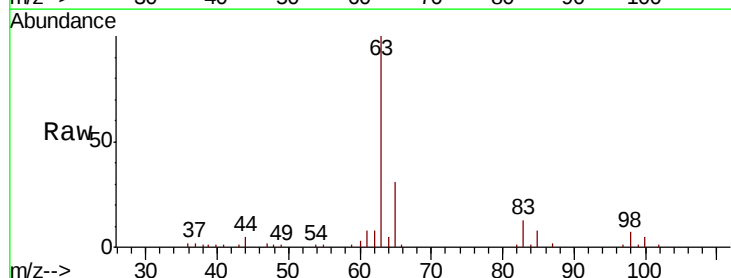
Tgt Ion: 63 Resp: 43421

Ion Ratio Lower Upper

63 100

65 31.0 22.4 41.6

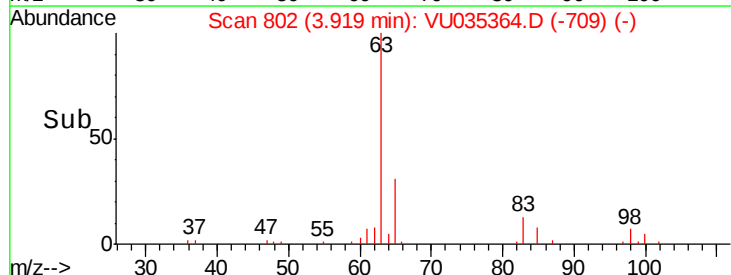
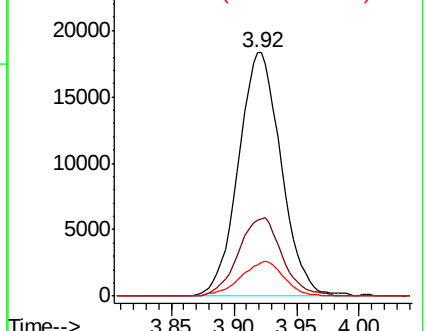
83 13.0 9.3 17.3

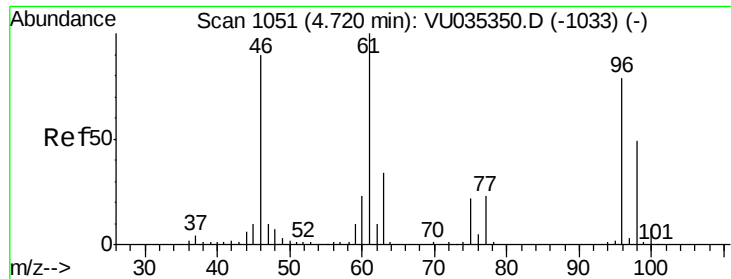


Abundance Ion 63.10 (62.80 to 63.80): VU035350.D (-782) (-)

Ion 65.10 (64.80 to 65.80): VU035350.D (-782) (-)

Ion 83.05 (82.75 to 83.75): VU035350.D (-782) (-)

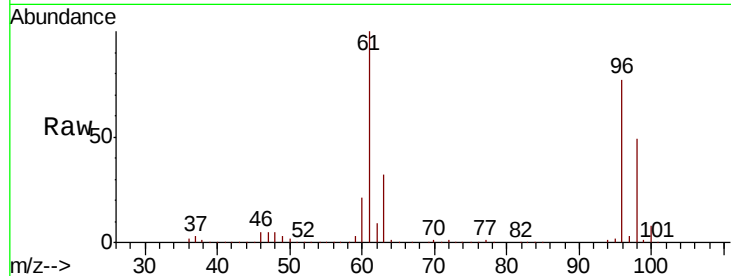




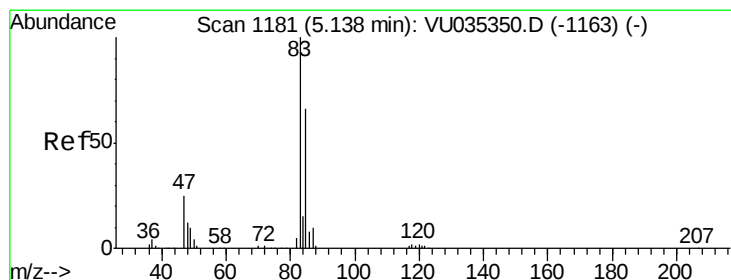
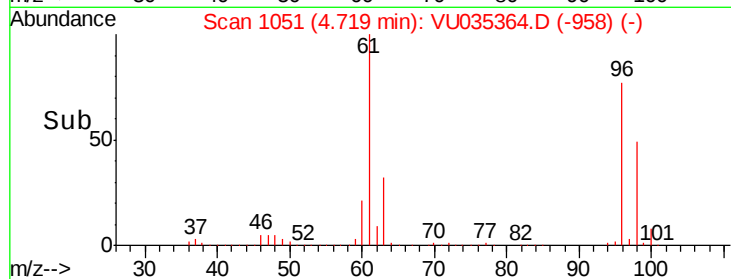
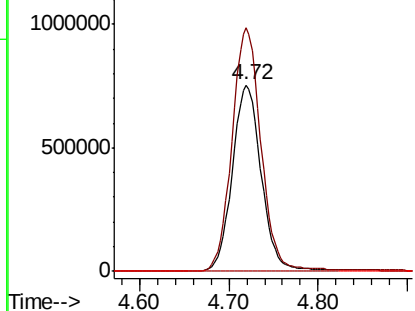
#22
 cis-1,2-Dichloroethene
 Concen: 81.943 ug/L
 RT: 4.72 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: VU035364.D
 Acq: 22 Oct 2019 14:49

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 96 Resp: 1700323
 Ion Ratio Lower Upper
 96 100
 61 130.6 89.7 166.5
 68 0.0 0.0 0.0

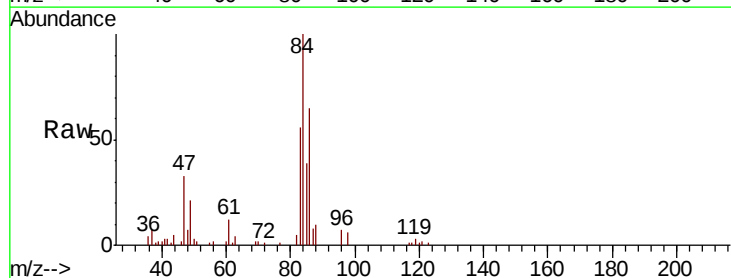


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

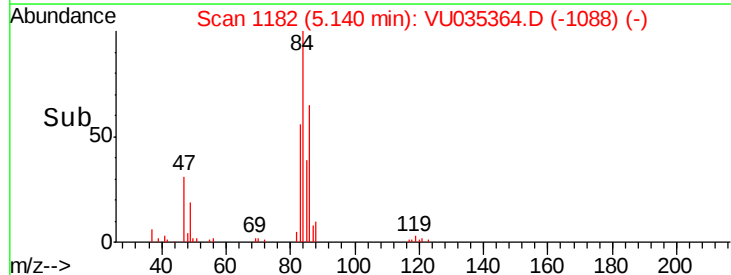
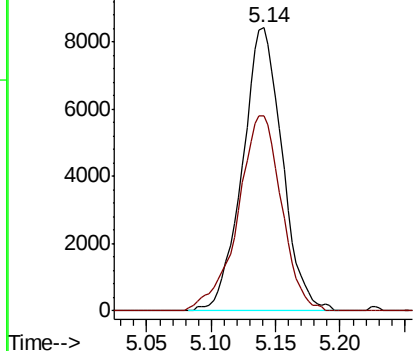


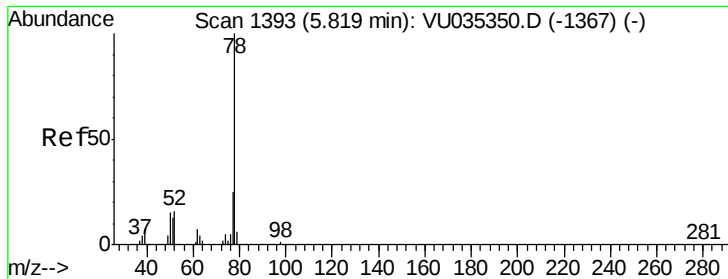
#25
 Chloroform
 Concen: 0.485 ug/L
 RT: 5.14 min Scan# 1182
 Delta R.T. 0.00 min
 Lab File: VU035364.D
 Acq: 22 Oct 2019 14:49

Tgt Ion: 83 Resp: 18080
 Ion Ratio Lower Upper
 83 100
 85 68.9 45.1 83.9



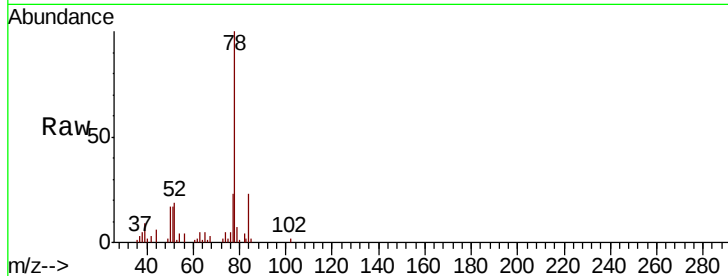
Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0



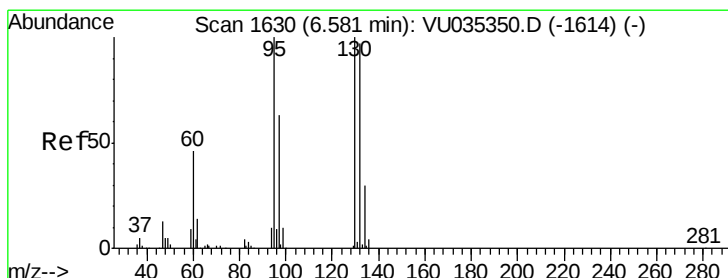
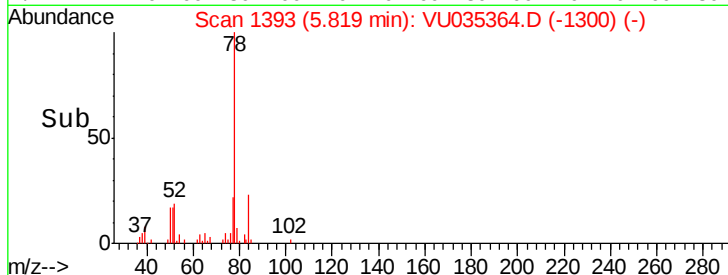
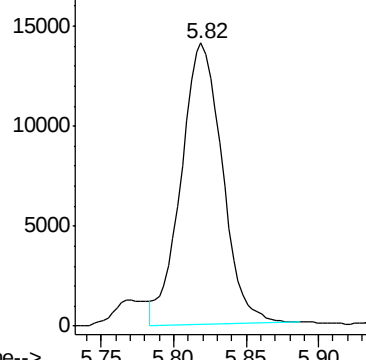


#33
Benzene
Concen: 0.352 ug/L
RT: 5.82 min Scan# 1393
Delta R.T. -0.00 min
Lab File: VU035364.D
Acq: 22 Oct 2019 14:49
Tgt Ion: 78 Resp: 27601

Instrument :
MSVOA_U
ClientSampleId :

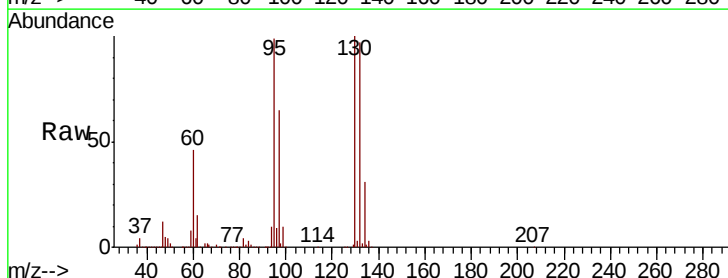


Abundance Ion 78.10 (77.80 to 78.80): VU0



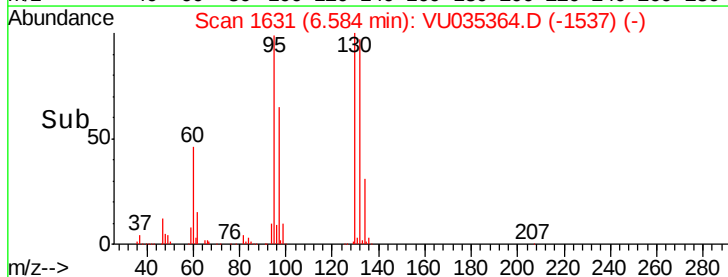
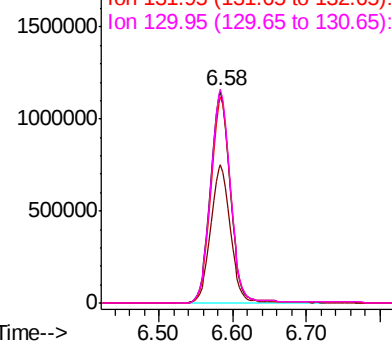
#34
Trichloroethene
Concen: 102.976 ug/L
RT: 6.58 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VU035364.D
Acq: 22 Oct 2019 14:49

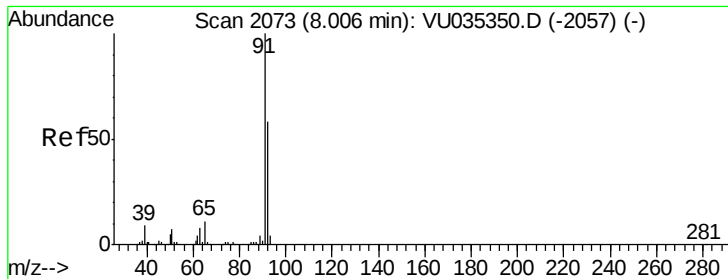
Tgt Ion: 95 Resp: 2172246
Ion Ratio Lower Upper
95 100
97 65.1 46.6 86.6
132 97.6 68.7 127.7
130 101.0 73.9 137.3



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





#42

Toluene

Concen: 0.371 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. -0.00 min

Lab File: VU035364.D

Acq: 22 Oct 2019 14:49

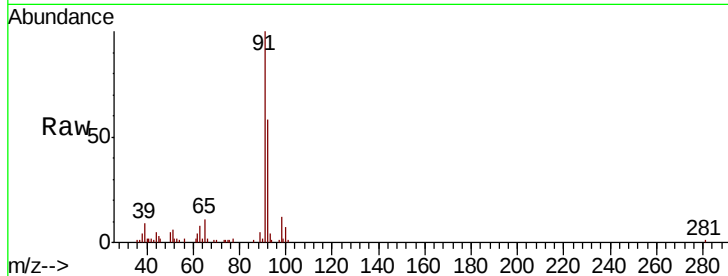
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 32128

Ion Ratio Lower Upper

91 100

92 58.0 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) (-)

8.01

20000

15000

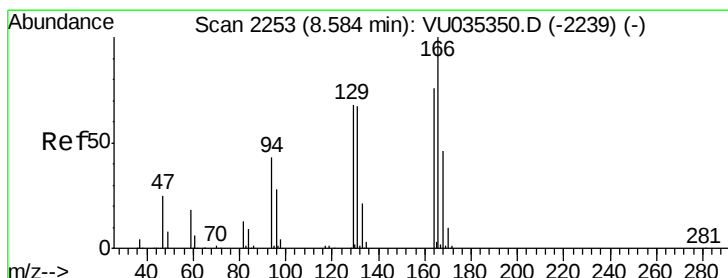
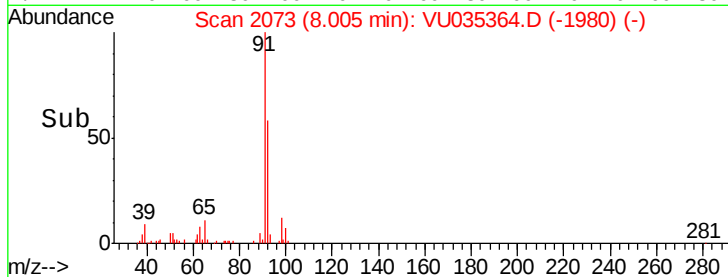
10000

5000

0

7.95 8.00 8.05 8.10

Time-->



#47

Tetrachloroethene

Concen: 2.347 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU035364.D

Acq: 22 Oct 2019 14:49

Tgt Ion: 164 Resp: 41243

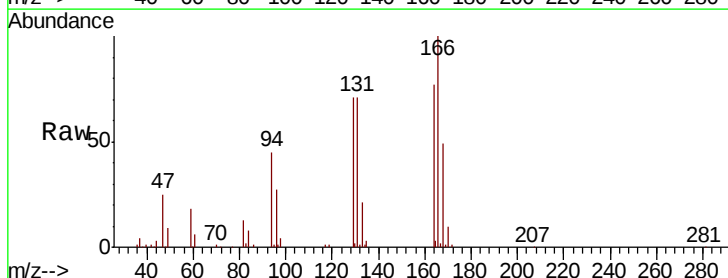
Ion Ratio Lower Upper

164 100

129 92.5 65.2 121.0

131 91.7 62.9 116.9

166 130.0 91.5 169.9



Abundance Ion 163.90 (163.60 to 164.60): VU035350.D (-2239) (-)

Ion 128.95 (128.65 to 129.65): VU035350.D (-2239) (-)

Ion 130.95 (130.65 to 131.65): VU035350.D (-2239) (-)

Ion 165.90 (165.60 to 166.60): VU035350.D (-2239) (-)

8.58

50000

40000

30000

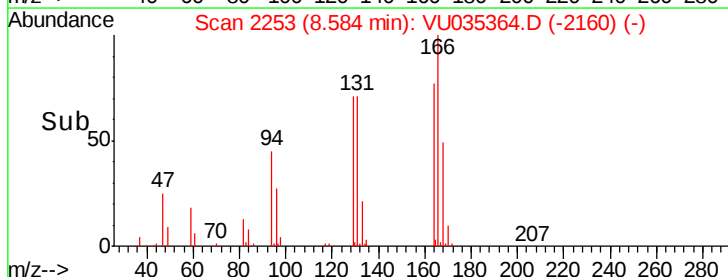
20000

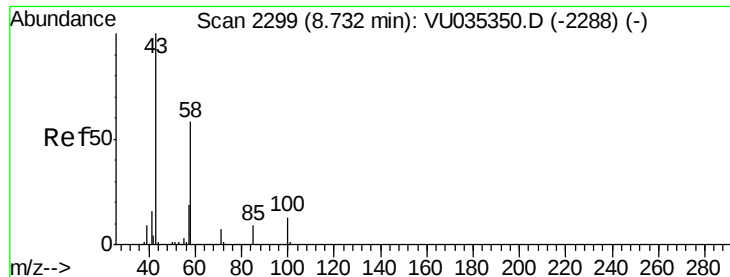
10000

0

8.50 8.55 8.60 8.65

Time-->

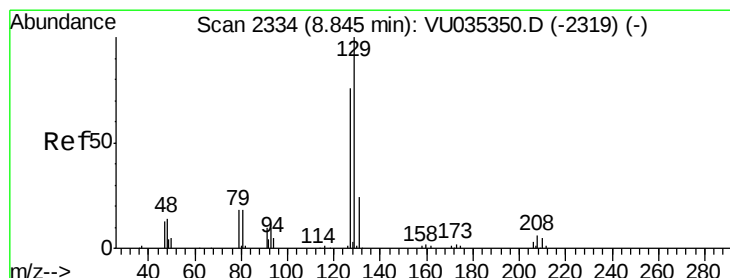
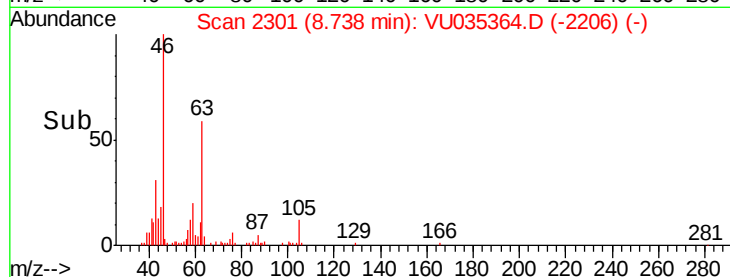
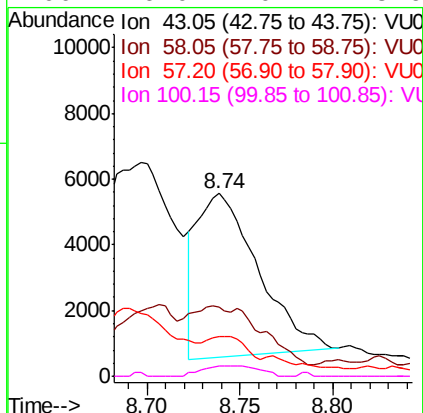
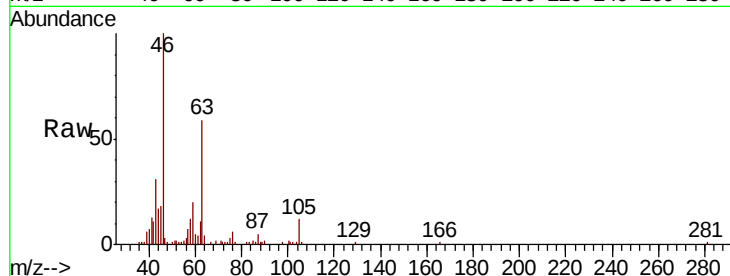




#48
2-Hexanone
Concen: 1.205 ug/L
RT: 8.74 min Scan# 2301
Delta R.T. 0.01 min
Lab File: VU035364.D
Acq: 22 Oct 2019 14:49

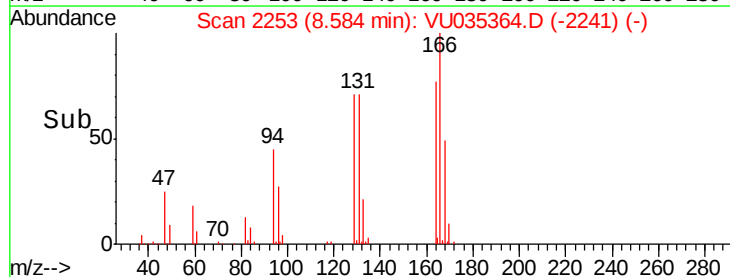
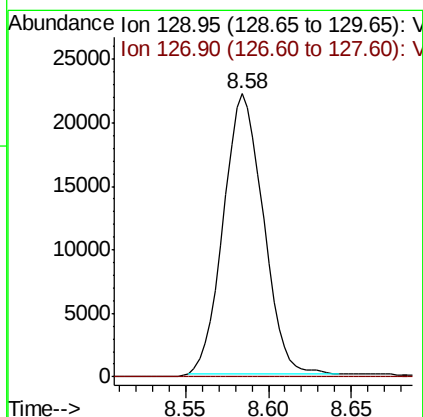
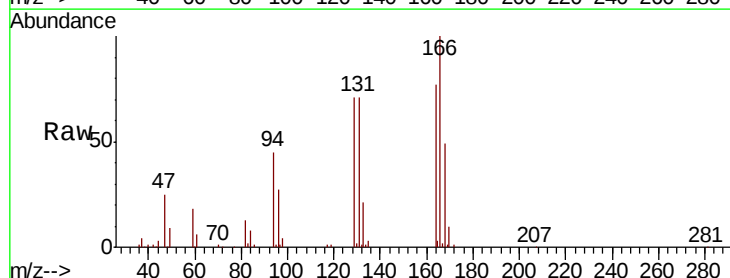
Instrument :
MSVOA_U
ClientSampleId :

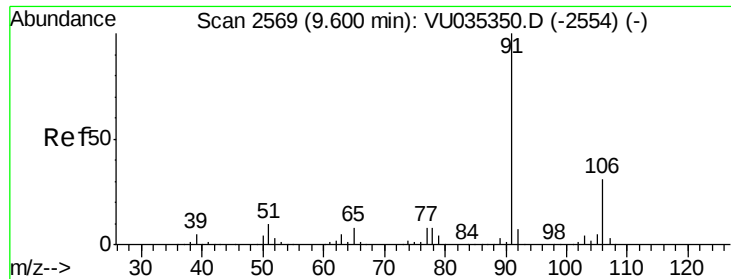
Tot Ion: 43 Resp: 11361
Ion Ratio Lower Upper
43 100
58 46.5 45.1 67.7
57 14.4 16.0 24.0#
100 6.0 10.4 15.6#



#49
Dibromochloromethane
Concen: 1.976 ug/L
RT: 8.58 min Scan# 2253
Delta R.T. -0.26 min
Lab File: VU035364.D
Acq: 22 Oct 2019 14:49

Tgt Ion: 129 Resp: 37038
Ion Ratio Lower Upper
129 100
127 0.0 53.8 99.8#





#52

Ethylbenzene

Concen: 0.080 ug/L

RT: 9.60 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU035364.D

Acq: 22 Oct 2019 14:49

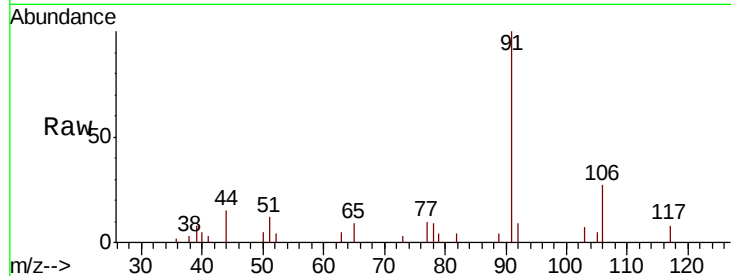
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 7853

Ion Ratio Lower Upper

91 100

106 27.2 21.3 39.6

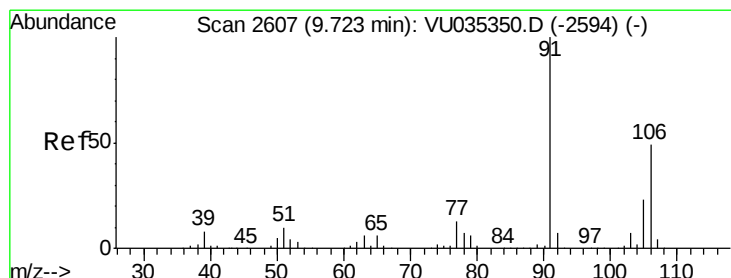
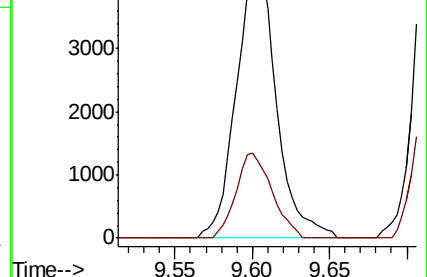
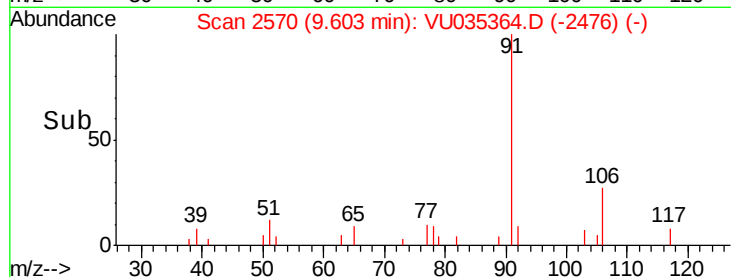


Abundance Ion 91.15 (90.85 to 91.85): VU035350.D (-2554) (-)

Ion 106.15 (105.85 to 106.85): VU035350.D (-2554) (-)

9.60

Time-->



#53

m,p-Xylene

Concen: 0.260 ug/L

RT: 9.73 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VU035364.D

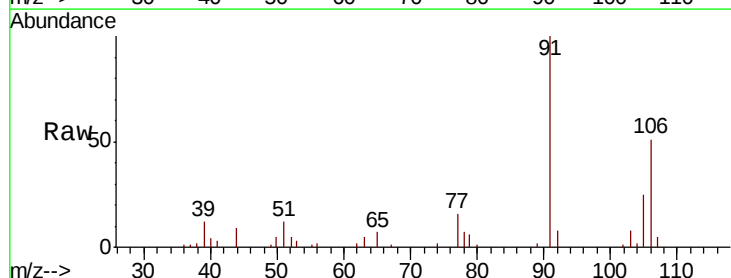
Acq: 22 Oct 2019 14:49

Tgt Ion: 106 Resp: 9665

Ion Ratio Lower Upper

106 100

91 196.7 142.0 263.6

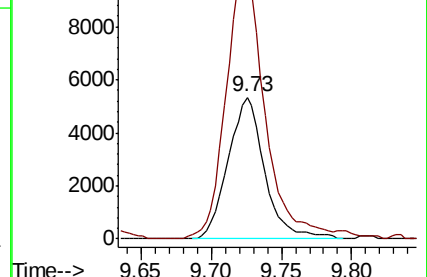
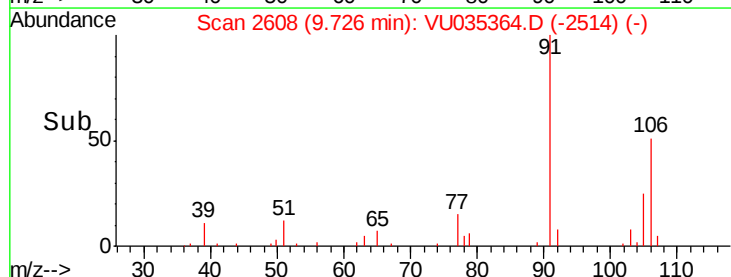


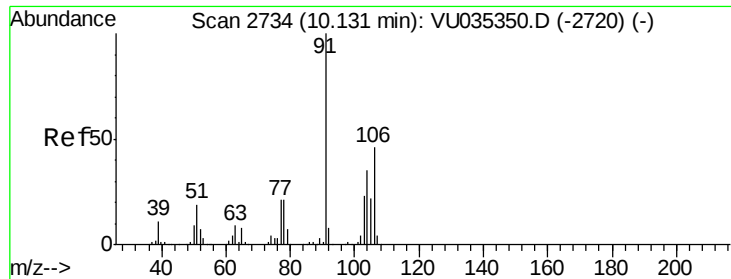
Abundance Ion 106.15 (105.85 to 106.85): VU035350.D (-2594) (-)

Ion 91.15 (90.85 to 91.85): VU035350.D (-2594) (-)

9.73

Time-->

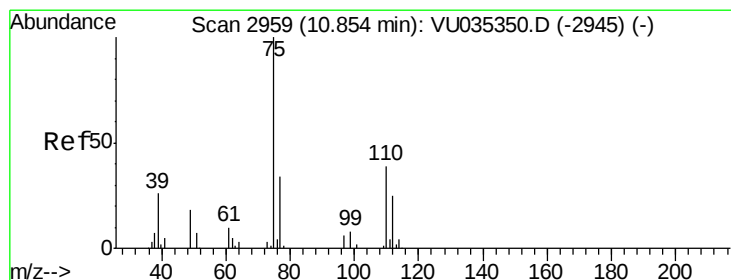
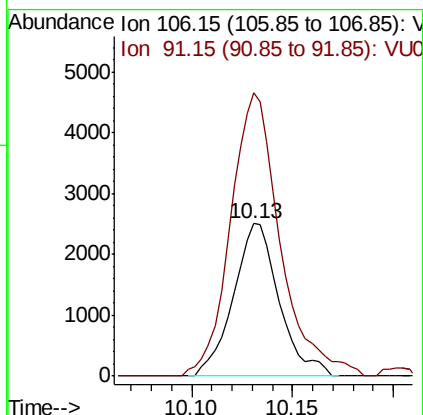
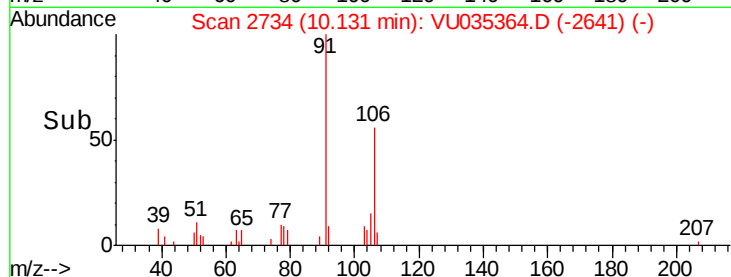
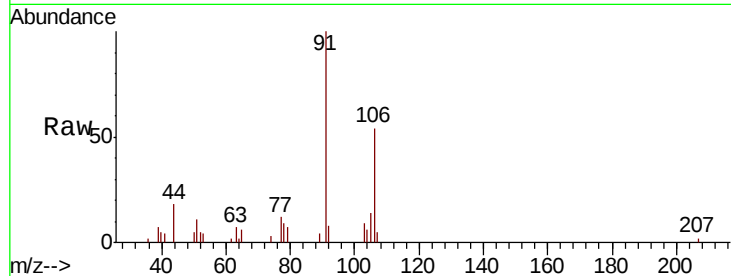




#54
o-Xylene
Concen: 0.109 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VU035364.D
Acq: 22 Oct 2019 14:49

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 3966
Ion Ratio Lower Upper
106 100
91 185.9 153.2 284.6



#59
1,2,3-Trichloropropane
Concen: 0.795 ug/L
RT: 11.84 min Scan# 3266
Delta R.T. 0.99 min
Lab File: VU035364.D
Acq: 22 Oct 2019 14:49

Tgt Ion: 75 Resp: 11029
Ion Ratio Lower Upper
75 100
77 40.0 26.2 39.2#

