

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031119\
 Data File : VU029907.D
 Acq On : 08 Mar 2019 22:48
 Operator : JC/SP
 Sample : K1763-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0957

Quant Time: Mar 08 23:55:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM021519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Mar 08 22:13:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	484931	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	472768	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	244949	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	121523	34.20	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	68.40%
7) Chloroethane-d5	1.68	69	117958	37.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	74.68%
11) 1,1-Dichloroethene-d2	2.27	63	194289	27.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	55.94%#
21) 2-Butanone-d5	4.17	46	259977	120.22	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	120.22%
24) Chloroform-d	4.64	84	288234	50.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.02%
26) 1,2-Dichloroethane-d4	5.31	65	174678	47.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.74%
32) Benzene-d6	5.34	84	584096	49.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.20%
36) 1,2-Dichloropropane-d6	6.33	67	186570	52.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	104.26%
41) Toluene-d8	7.56	98	534514	44.03	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.06%
43) trans-1,3-Dichloropropene-	7.85	79	68258	35.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.90%
47) 2-Hexanone-d5	8.31	63	228738	114.76	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	114.76%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	301771	49.90	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.80%
64) 1,2-Dichlorobenzene-d4	11.85	152	242375	45.92	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.84%

Target Compounds

					Qvalue
3) Chloromethane	1.33	50	78909	27.052	ug/L 99
8) Chloroethane	1.40	64	15243	5.785	ug/L 84
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	1938	0.574	ug/L # 22
12) 1,1-Dichloroethene	2.28	96	17416	5.423	ug/L # 1
13) Acetone	2.32	43	77001	33.323	ug/L 97
15) Methyl Acetate	2.62	43	4268	1.423	ug/L 99
16) Methylene chloride	2.70	84	1882208	605.720	ug/L 99
19) 1,1-Dichloroethane	3.44	63	3822	0.746	ug/L 97
20) cis-1,2-Dichloroethene	4.22	96	50680	14.715	ug/L 99
22) 2-Butanone	4.27	43	21729	8.240	ug/L 97
25) Chloroform	4.67	83	130122	22.756	ug/L 100
27) 1,2-Dichloroethane	5.41	62	2248	0.511	ug/L # 95
34) Trichloroethene	6.18	95	2263459	693.191	ug/L 96
38) Bromodichloromethane	6.76	83	5006	1.167	ug/L # 91
40) 4-Methyl-2-pentanone	7.46	43	8559	1.913	ug/L # 78
42) Toluene	7.64	91	10377	0.724	ug/L 98
44) trans-1,3-Dichloropropene	7.85	75	2974	0.615	ug/L # 53

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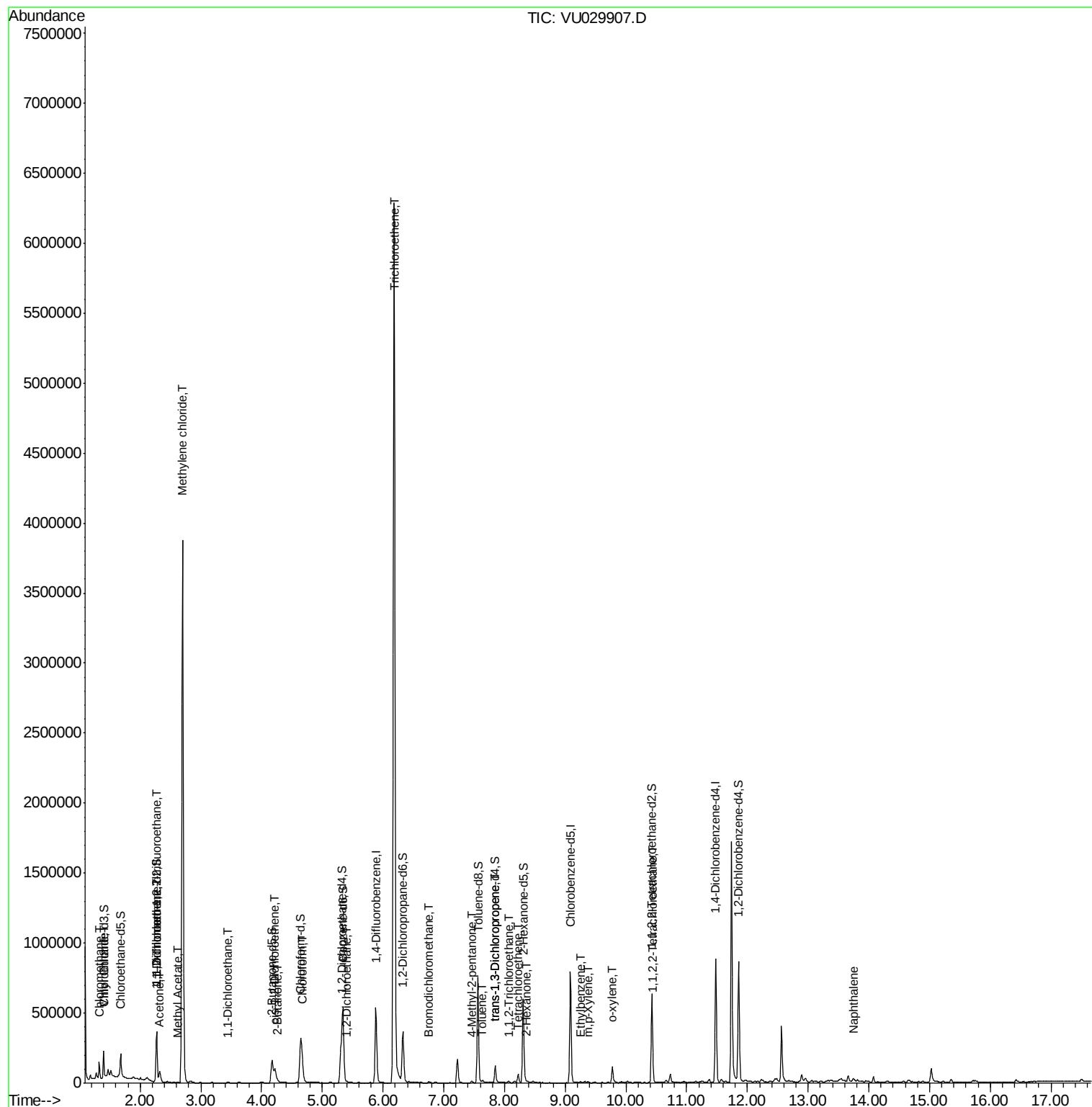
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.06	97	3670	1.082	ug/L	92
46) Tetrachloroethene	8.22	164	15469	4.840	ug/L	97
48) 2-Hexanone	8.37	43	4192	1.072	ug/L #	88
52) Ethylbenzene	9.25	91	6226	0.382	ug/L	97
53) m,p-Xylene	9.37	106	2666	0.408	ug/L	85
54) o-xylene	9.78	106	33105	5.043	ug/L	97
58) 1,1,2,2-Tetrachloroethane	10.45	83	3438	0.573	ug/L #	86
69) Naphthalene	13.74	128	14652	0.925	ug/L	97

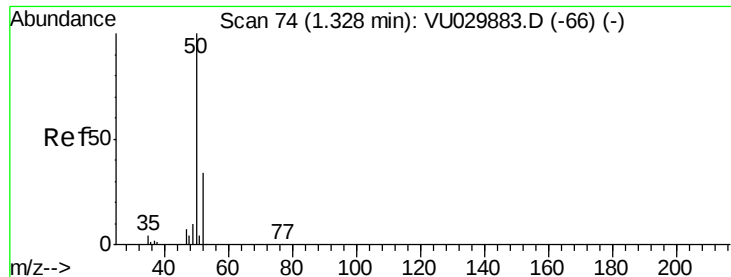
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 27.052 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU029907.D

Acq: 08 Mar 2019 22:48

Instrument :

MSVOA_U

ClientSampleId :

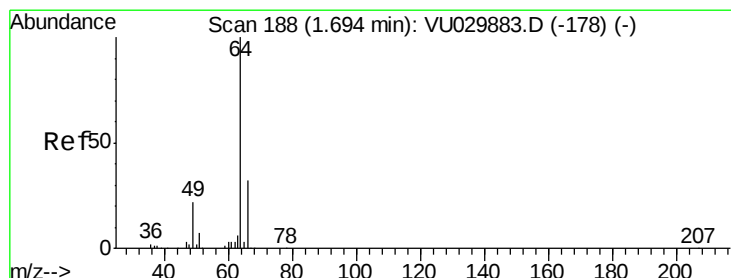
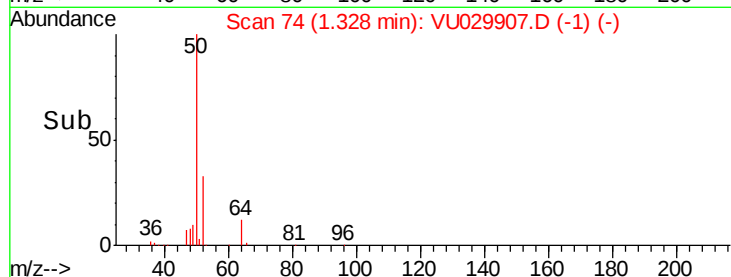
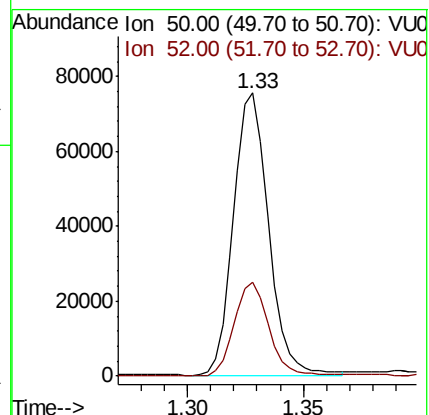
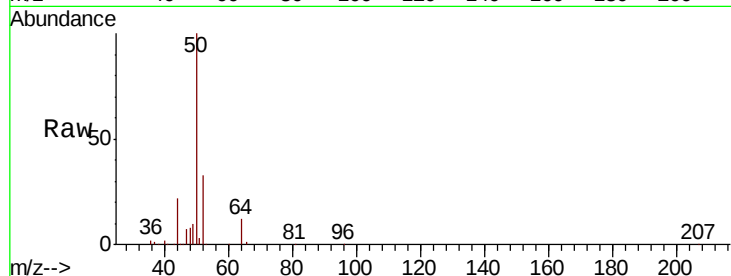
C0957

Tgt Ion: 50 Resp: 78909

Ion Ratio Lower Upper

50 100

52 33.3 23.9 44.3



#8

Chloroethane

Concen: 5.785 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.30 min

Lab File: VU029907.D

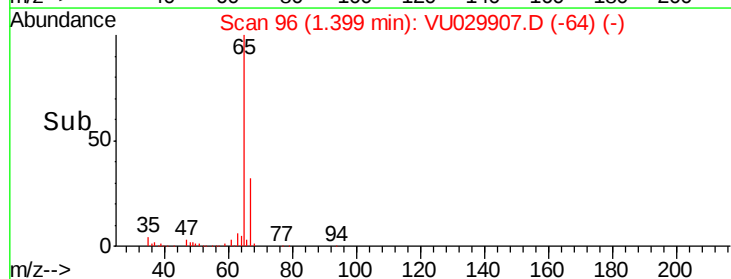
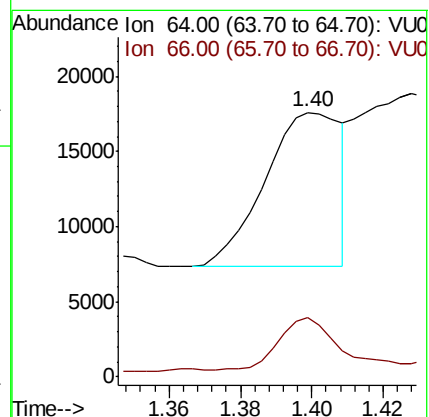
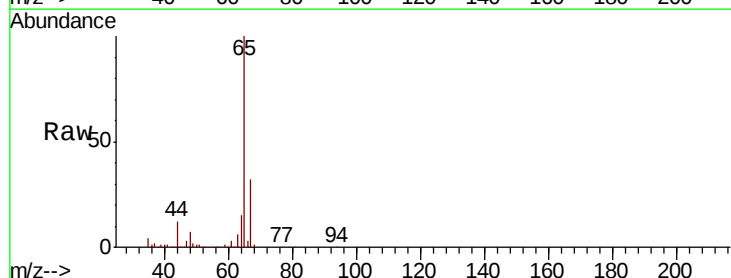
Acq: 08 Mar 2019 22:48

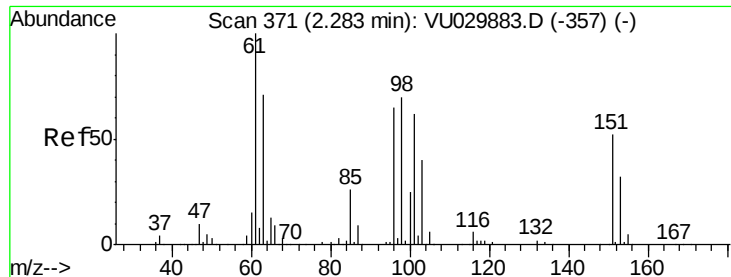
Tgt Ion: 64 Resp: 15243

Ion Ratio Lower Upper

64 100

66 22.4 22.0 41.0





#10

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

Concen: 0.574 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU029907.D

Acq: 08 Mar 2019 22:48

Instrument :

MSVOA_U

ClientSampleId :

C0957

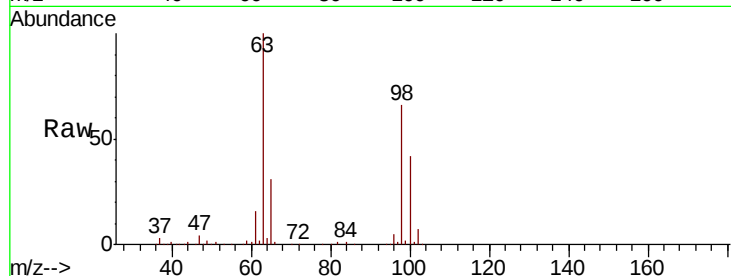
Tgt Ion: 101 Resp: 1938

Ion Ratio Lower Upper

101 100

85 0.0 33.0 49.6#

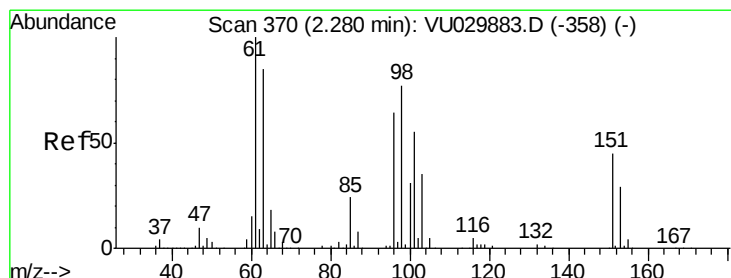
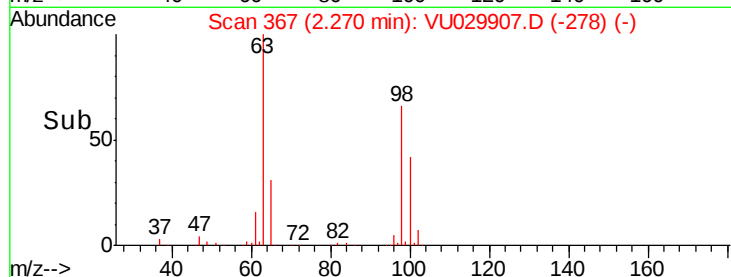
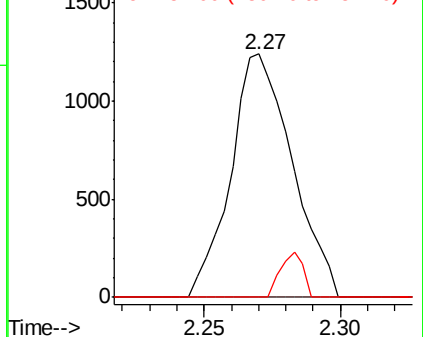
151 7.0 65.7 98.5#



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: 5.423 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029907.D

Acq: 08 Mar 2019 22:48

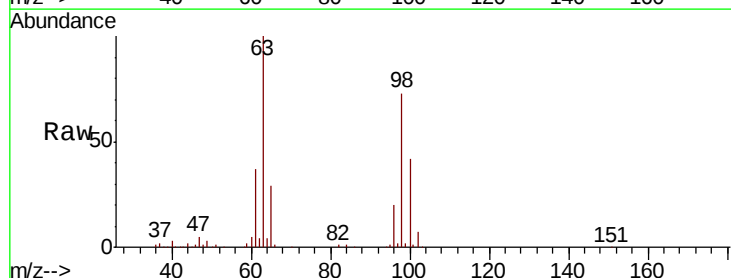
Tgt Ion: 96 Resp: 17416

Ion Ratio Lower Upper

96 100

61 185.4 114.0 211.8

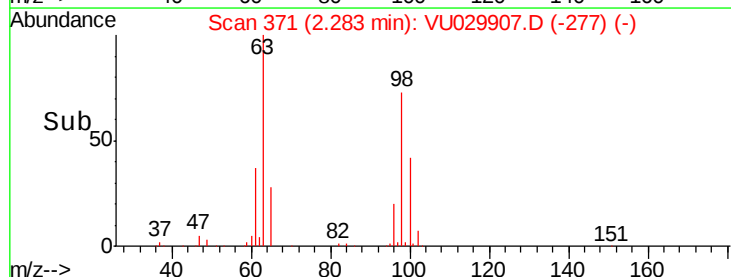
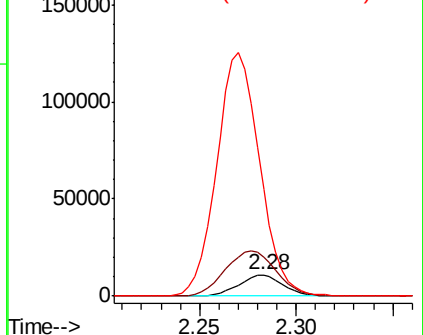
63 500.7 98.7 183.3#

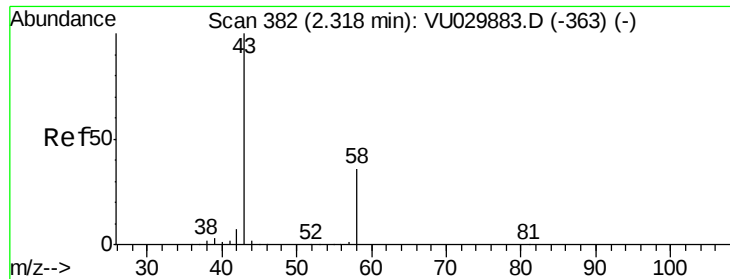


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 33.323 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU029907.D

Acq: 08 Mar 2019 22:48

Instrument :

MSVOA_U

ClientSampleId :

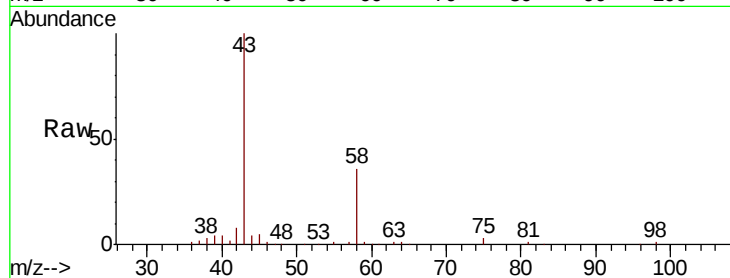
C0957

Tgt Ion: 43 Resp: 77001

Ion Ratio Lower Upper

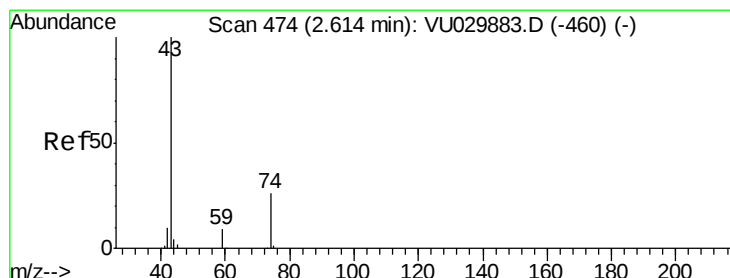
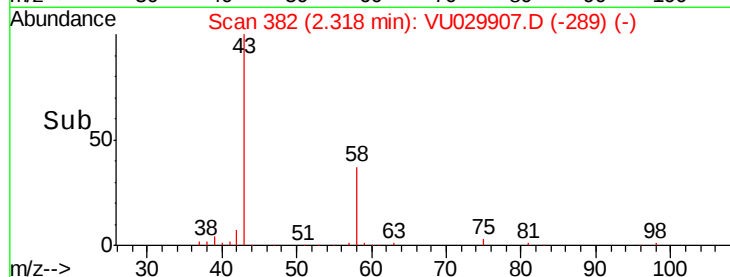
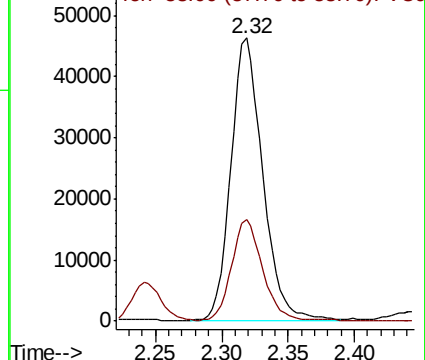
43 100

58 35.2 0.0 66.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#15

Methyl Acetate

Concen: 1.423 ug/L

RT: 2.62 min Scan# 476

Delta R.T. 0.01 min

Lab File: VU029907.D

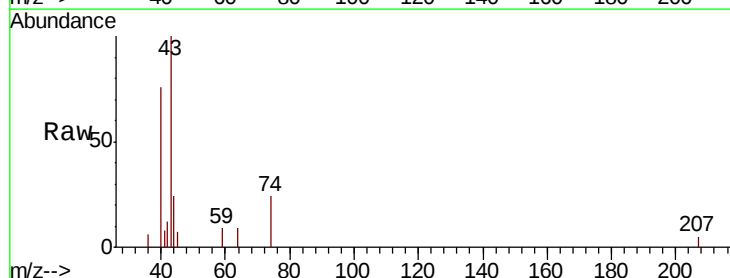
Acq: 08 Mar 2019 22:48

Tgt Ion: 43 Resp: 4268

Ion Ratio Lower Upper

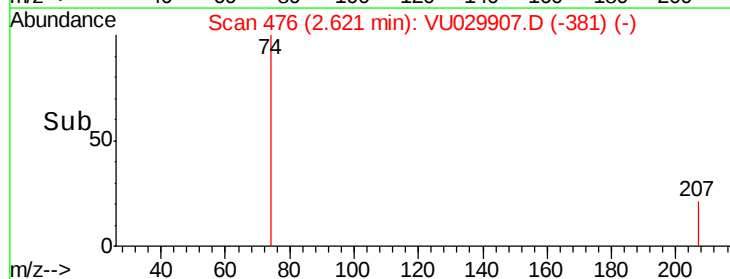
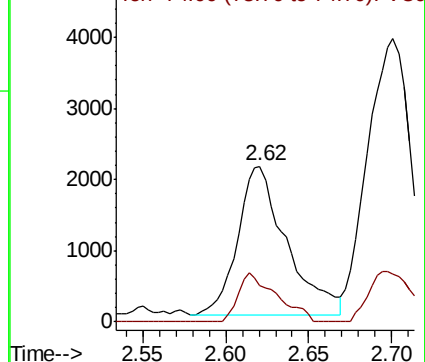
43 100

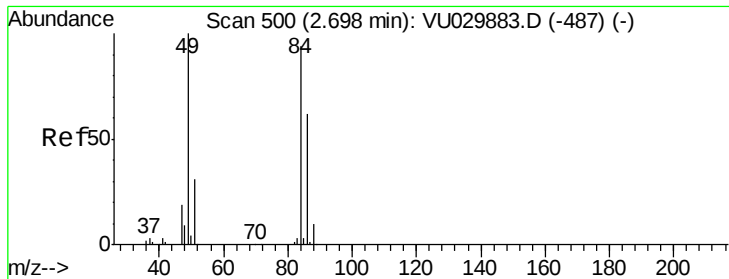
74 26.1 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





#16

Methylene chloride

Concen: 605.720 ug/L

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU029907.D

Acq: 08 Mar 2019 22:48

Instrument :

MSVOA_U

ClientSampleId :

C0957

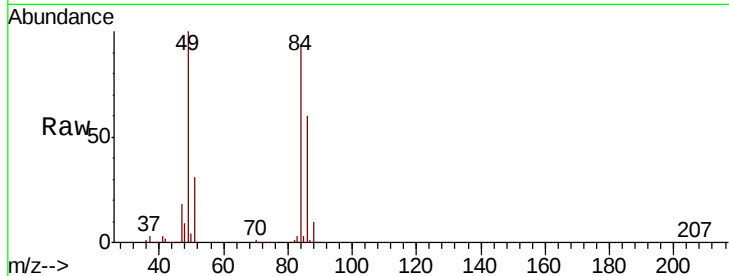
Tgt Ion: 84 Resp: 1882208

Ion Ratio Lower Upper

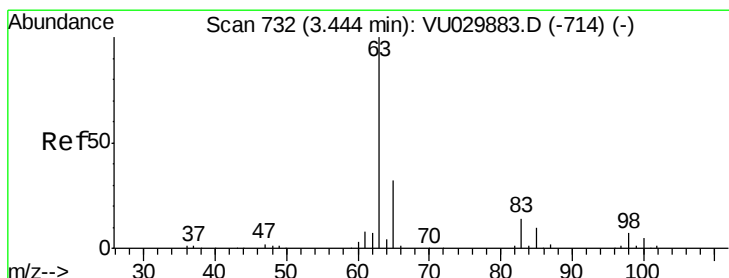
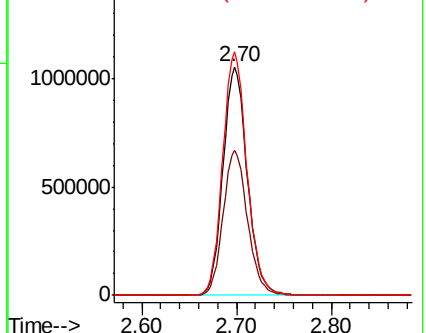
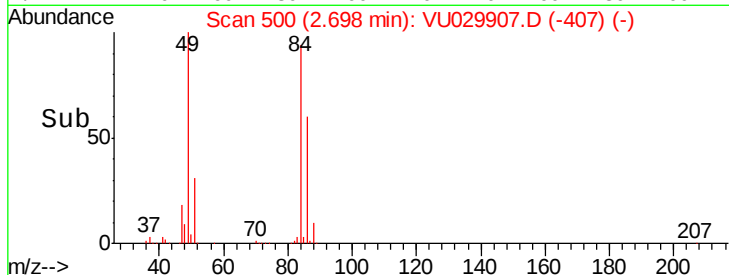
84 100

86 63.5 45.8 85.0

49 106.5 75.1 139.5



Abundance Ion 84.00 (83.70 to 84.70): VU029907.D (-639) (-)



#19

1,1-Dichloroethane

Concen: 0.746 ug/L

RT: 3.44 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU029907.D

Acq: 08 Mar 2019 22:48

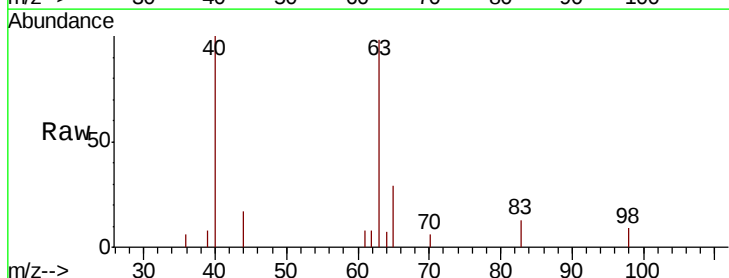
Tgt Ion: 63 Resp: 3822

Ion Ratio Lower Upper

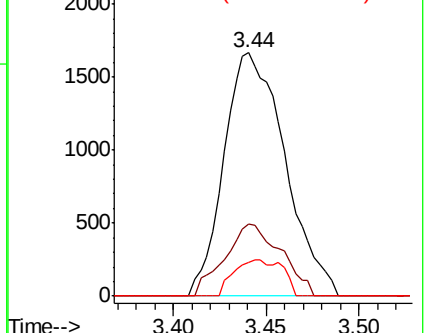
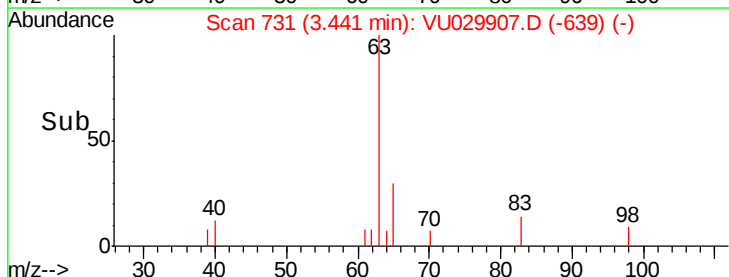
63 100

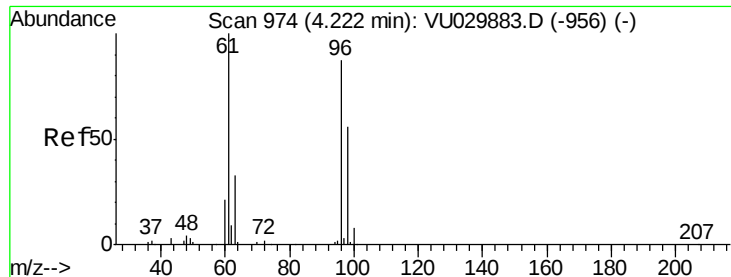
65 29.8 22.3 41.3

83 13.6 9.9 18.3



Abundance Ion 63.00 (62.70 to 63.70): VU029907.D (-639) (-)

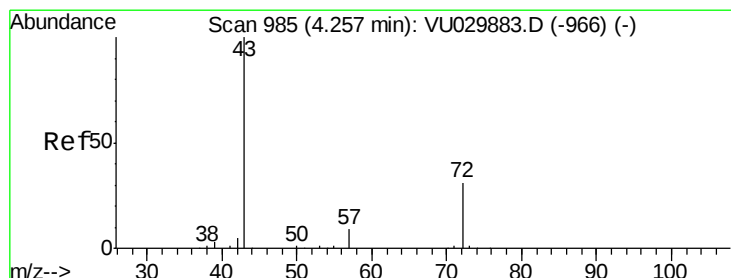
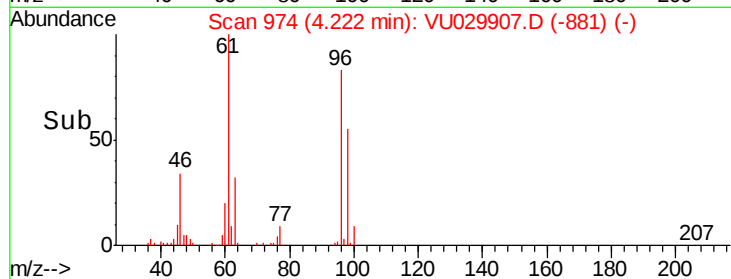
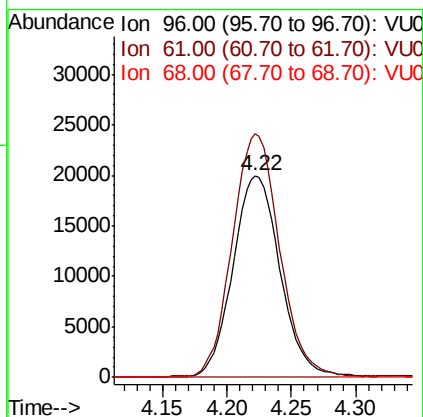
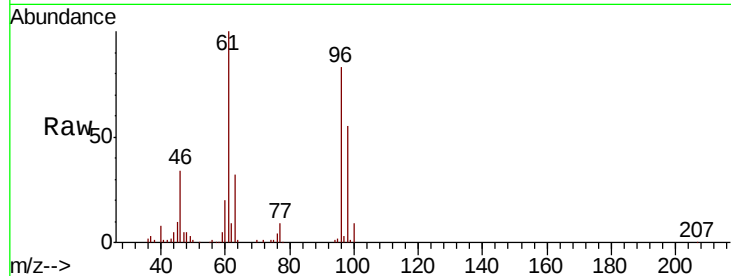




#20
 cis-1,2-Dichloroethene
 Concen: 14.715 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU029907.D
 Acq: 08 Mar 2019 22:48

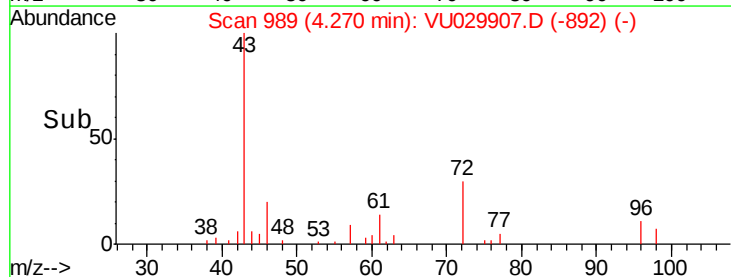
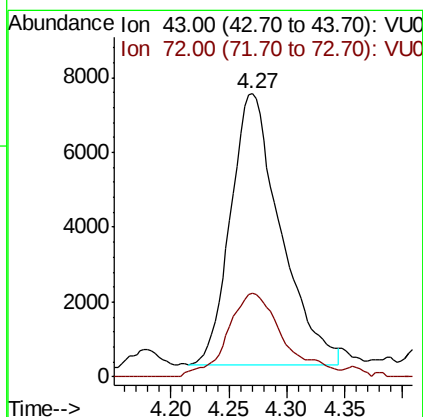
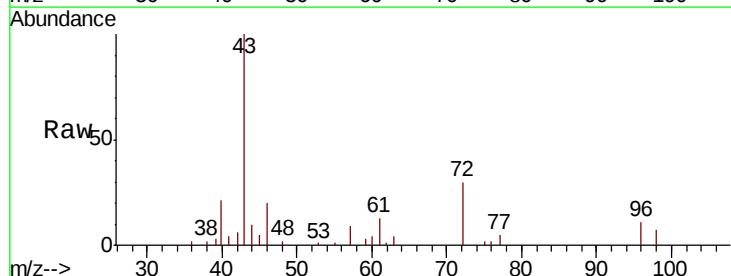
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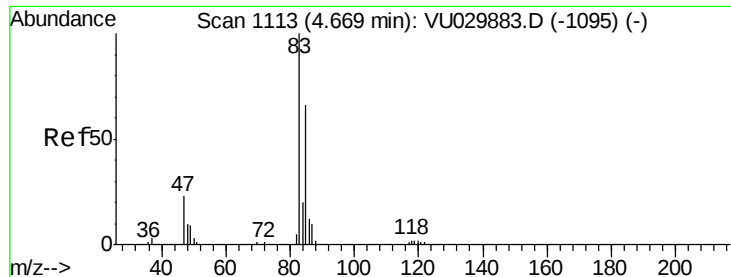
Tgt Ion: 96 Resp: 50680
 Ion Ratio Lower Upper
 96 100
 61 120.7 83.9 155.7
 68 0.0 0.0 0.0



#22
 2-Butanone
 Concen: 8.240 ug/L
 RT: 4.27 min Scan# 989
 Delta R.T. 0.01 min
 Lab File: VU029907.D
 Acq: 08 Mar 2019 22:48

Tgt Ion: 43 Resp: 21729
 Ion Ratio Lower Upper
 43 100
 72 32.1 15.2 45.6





#25

Chloroform

Concen: 22.756 ug/L

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU029907.D

Acq: 08 Mar 2019 22:48

Instrument :

MSVOA_U

ClientSampleId :

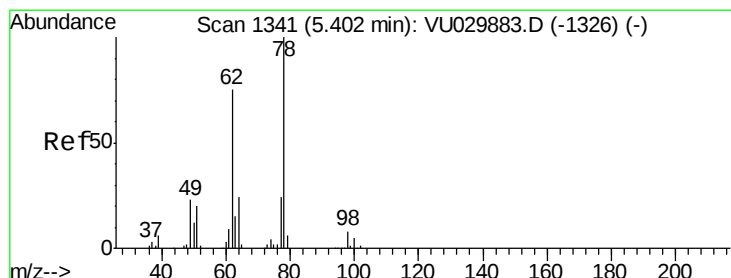
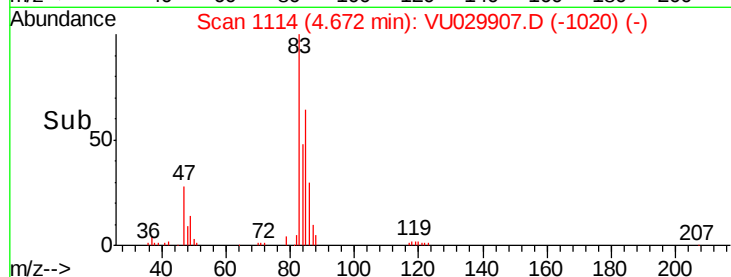
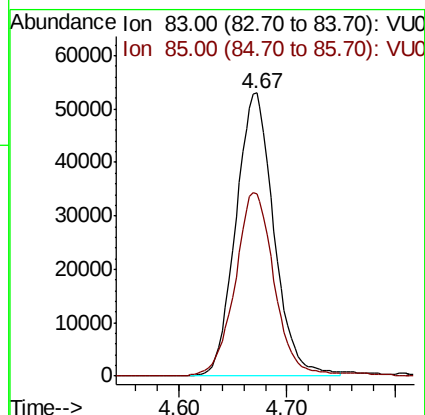
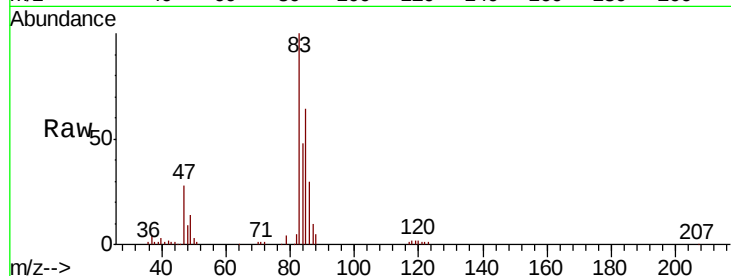
C0957

Tgt Ion: 83 Resp: 130122

Ion Ratio Lower Upper

83 100

85 64.4 45.4 84.2



#27

1,2-Dichloroethane

Concen: 0.511 ug/L

RT: 5.41 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VU029907.D

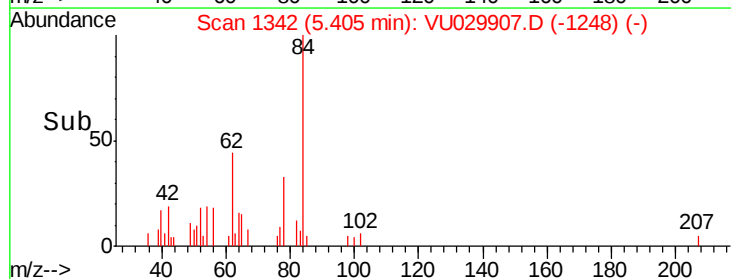
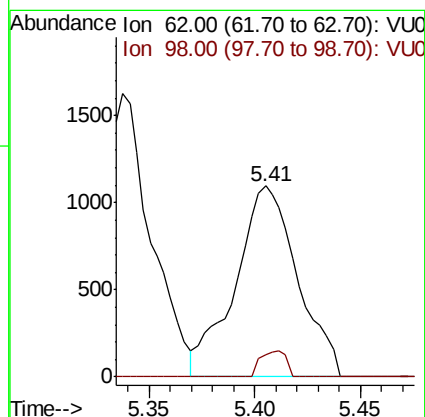
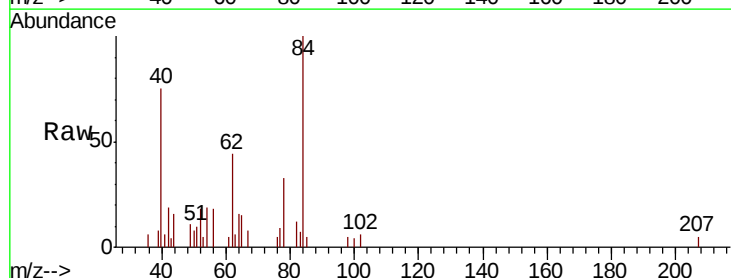
Acq: 08 Mar 2019 22:48

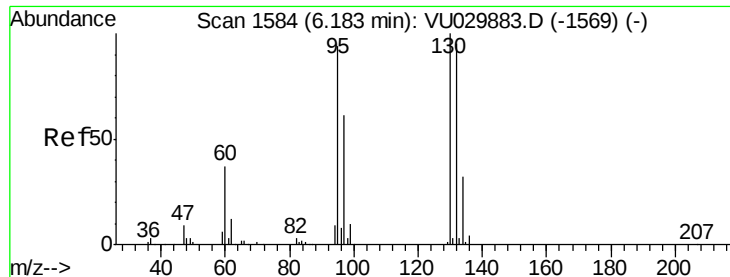
Tgt Ion: 62 Resp: 2248

Ion Ratio Lower Upper

62 100

98 11.8 7.8 11.8#





#34

Trichloroethene

Concen: 693.191 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029907.D

Acq: 08 Mar 2019 22:48

Instrument :

MSVOA_U

ClientSampleId :

C0957

Tgt Ion: 95 Resp: 2263459

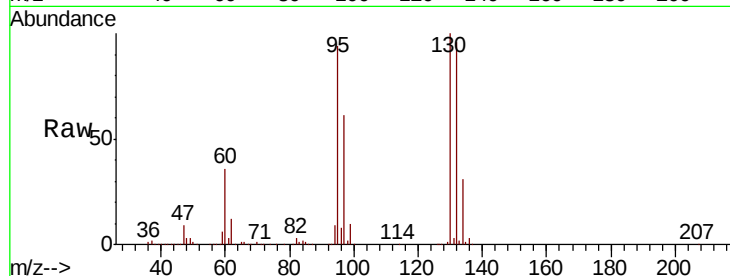
Ion Ratio Lower Upper

95 100

97 64.6 44.6 82.8

132 101.2 74.6 138.6

130 105.9 77.2 143.4

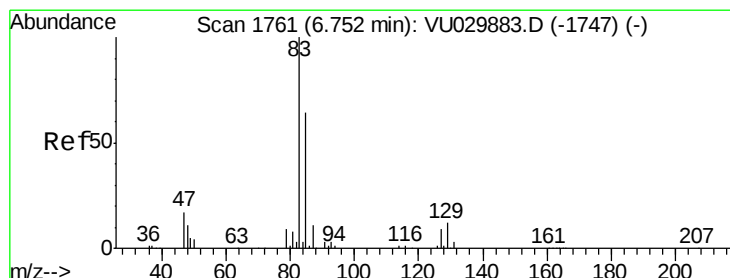
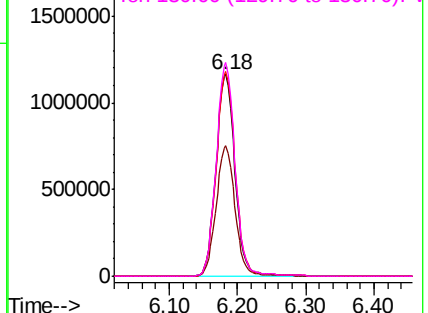
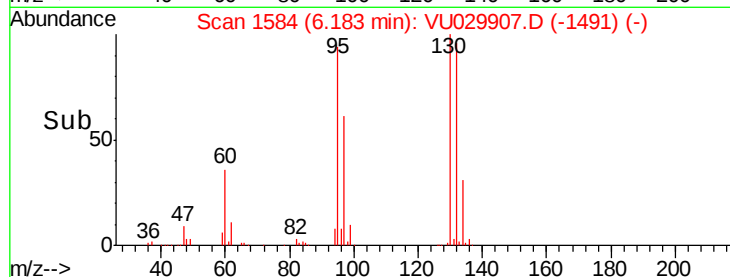


Abundance Ion 95.00 (94.70 to 95.70): VU029907.D (-1491) (-)

Ion 97.00 (96.70 to 97.70): VU029907.D (-1491) (-)

Ion 132.00 (131.70 to 132.70): VU029907.D (-1491) (-)

Ion 130.00 (129.70 to 130.70): VU029907.D (-1491) (-)



#38

Bromodichloromethane

Concen: 1.167 ug/L

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU029907.D

Acq: 08 Mar 2019 22:48

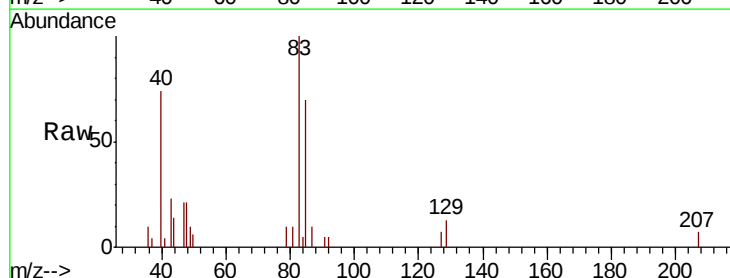
Tgt Ion: 83 Resp: 5006

Ion Ratio Lower Upper

83 100

85 70.2 44.2 82.0

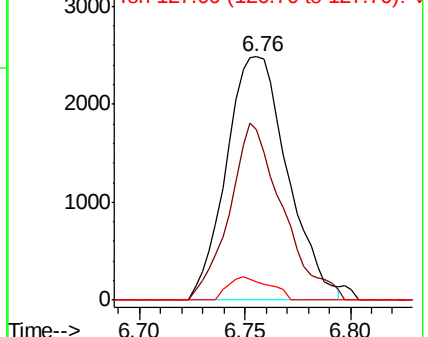
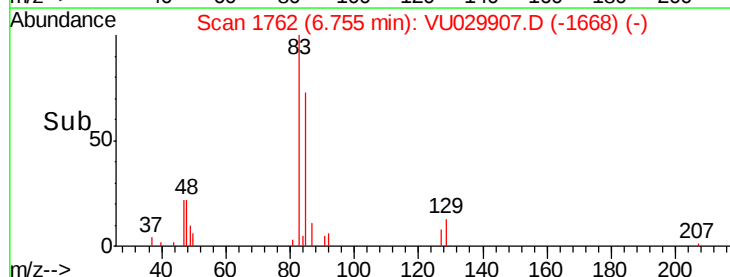
127 7.3 8.3 12.5#

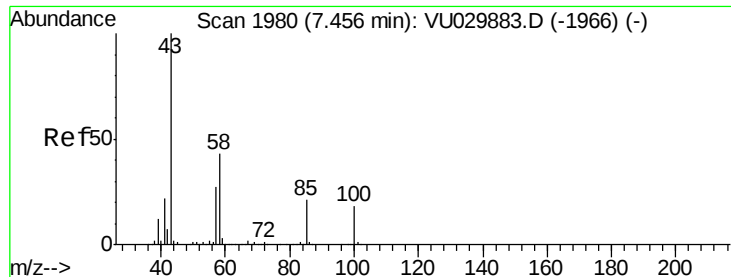


Abundance Ion 83.00 (82.70 to 83.70): VU029907.D (-1668) (-)

Ion 85.00 (84.70 to 85.70): VU029907.D (-1668) (-)

Ion 127.00 (126.70 to 127.70): VU029907.D (-1668) (-)

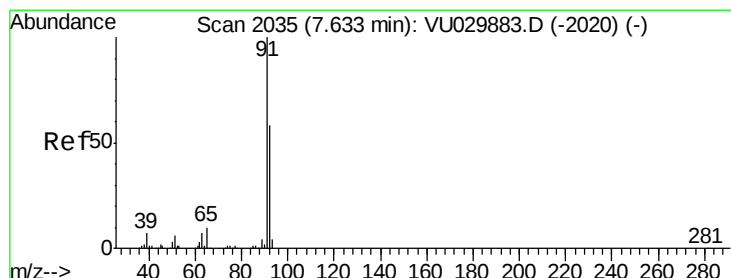
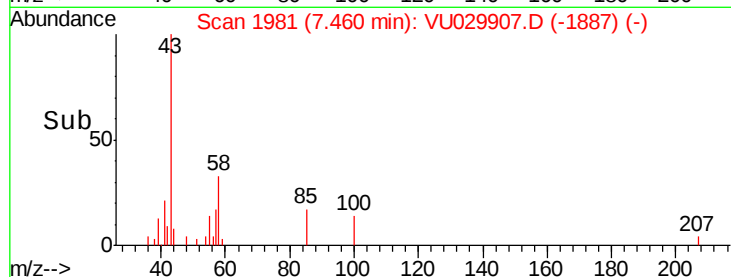
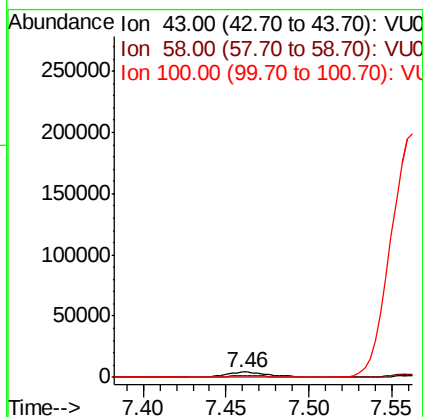
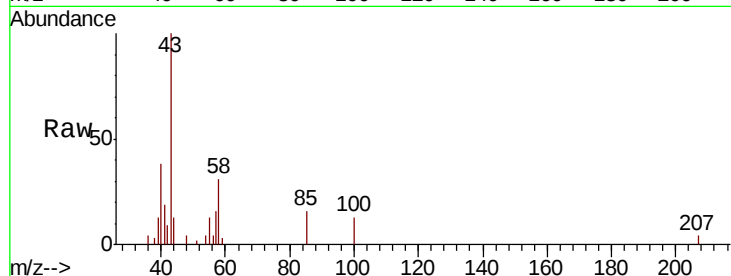




#40
4-Methyl-2-pentanone
Concen: 1.913 ug/L
RT: 7.46 min Scan# 1981
Delta R.T. 0.00 min
Lab File: VU029907.D
Acq: 08 Mar 2019 22:48

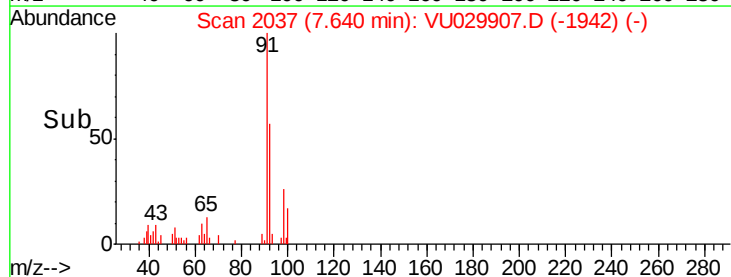
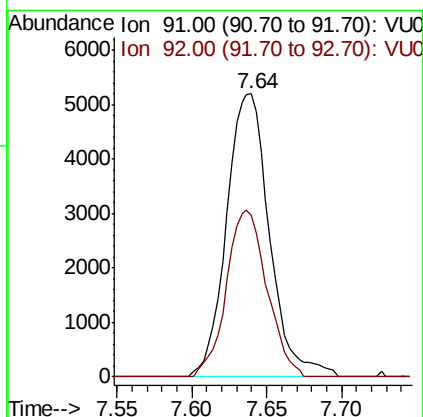
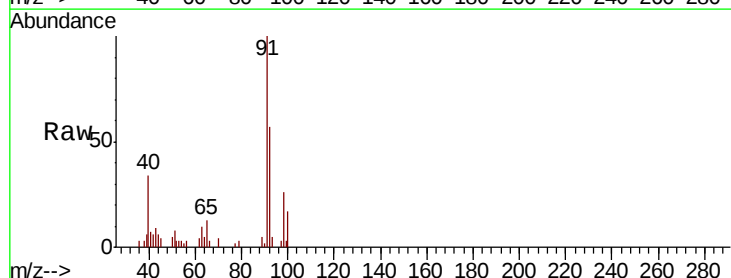
Instrument :
MSVOA_U
ClientSampleId :
C0957

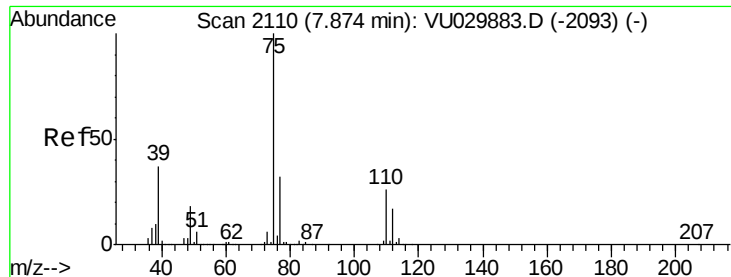
Tgt Ion: 43 Resp: 8559
Ion Ratio Lower Upper
43 100
58 28.3 33.0 49.4#
100 7.7 14.5 21.7#



#42
Toluene
Concen: 0.724 ug/L
RT: 7.64 min Scan# 2037
Delta R.T. 0.01 min
Lab File: VU029907.D
Acq: 08 Mar 2019 22:48

Tgt Ion: 91 Resp: 10377
Ion Ratio Lower Upper
91 100
92 57.1 40.8 75.8





#44

trans-1,3-Dichloropropene

Concen: 0.615 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU029907.D

Acq: 08 Mar 2019 22:48

Instrument :

MSVOA_U

ClientSampleId :

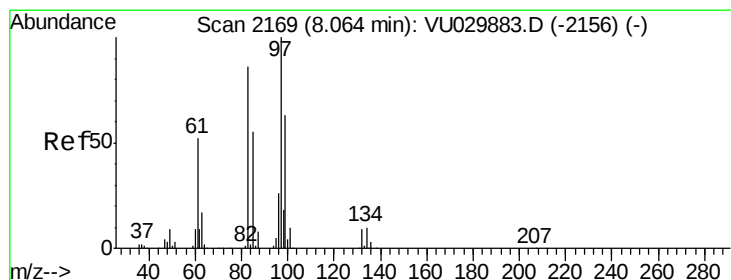
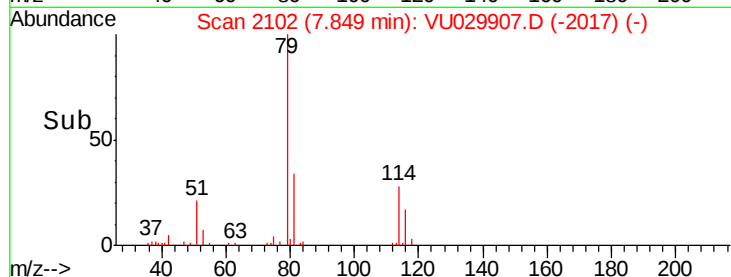
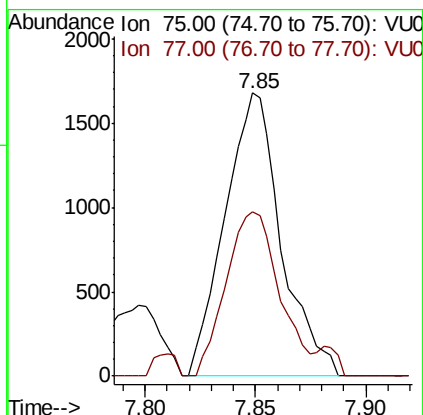
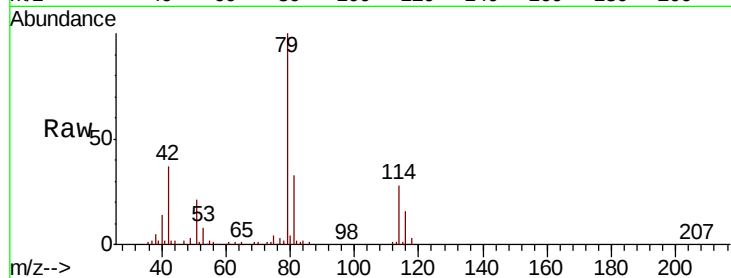
C0957

Tgt Ion: 75 Resp: 2974

Ion Ratio Lower Upper

75 100

77 57.9 22.1 41.1#



#45

1,1,2-Trichloroethane

Concen: 1.082 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. 0.00 min

Lab File: VU029907.D

Acq: 08 Mar 2019 22:48

Tgt Ion: 97 Resp: 3670

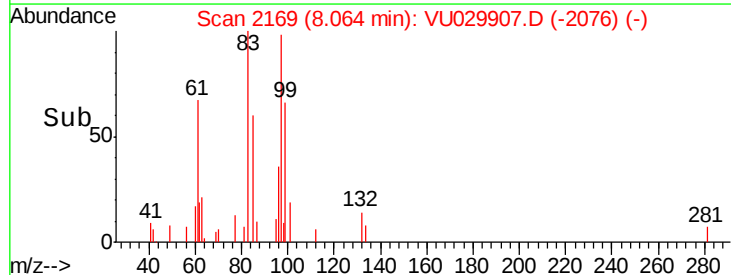
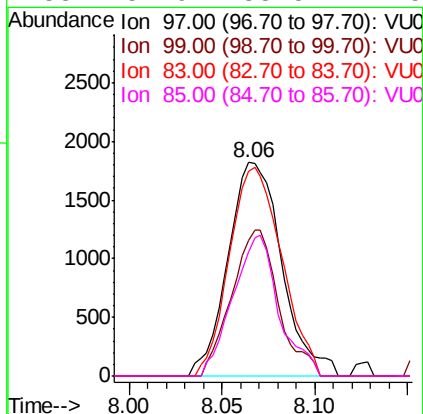
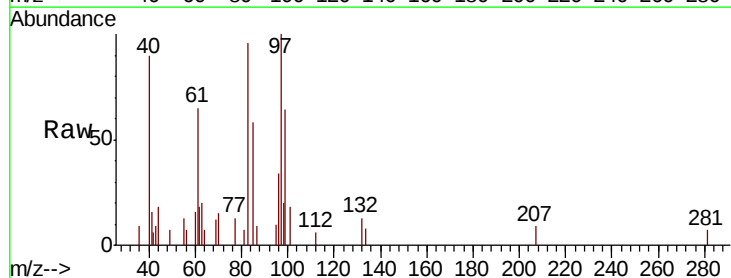
Ion Ratio Lower Upper

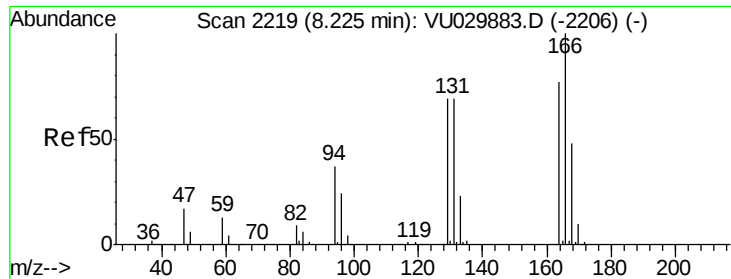
97 100

99 63.8 43.8 81.3

83 96.2 57.7 107.1

85 57.9 38.5 71.5

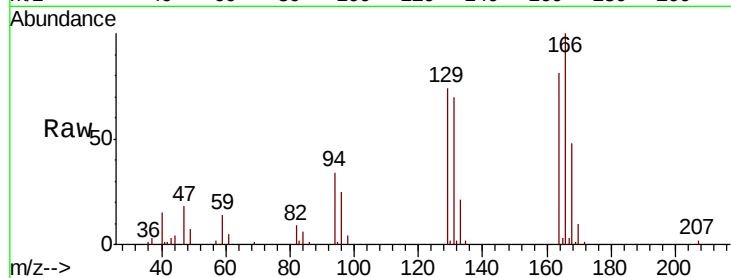




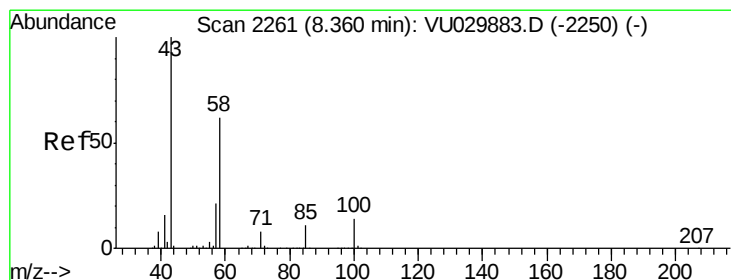
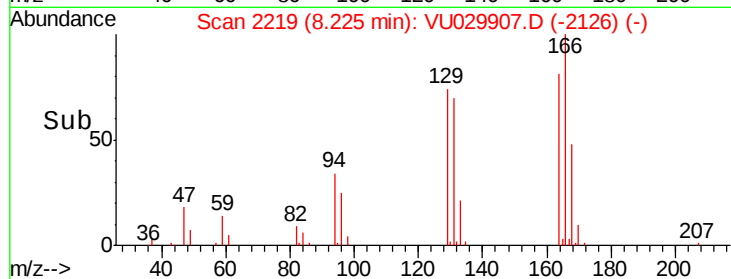
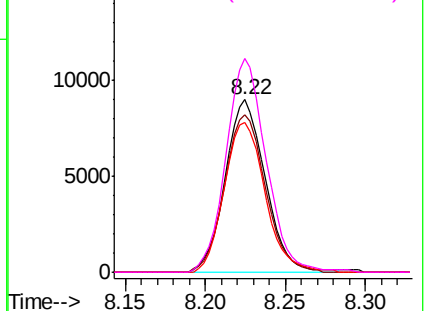
#46
Tetrachloroethene
Concen: 4.840 ug/L
RT: 8.22 min Scan# 2219
Delta R.T. 0.00 min
Lab File: VU029907.D
Acq: 08 Mar 2019 22:48

Instrument :
MSVOA_U
ClientSampleId :
C0957

Tgt Ion:164 Resp: 15469
Ion Ratio Lower Upper
164 100
129 91.1 62.1 115.3
131 86.9 60.1 111.5
166 123.8 89.7 166.5

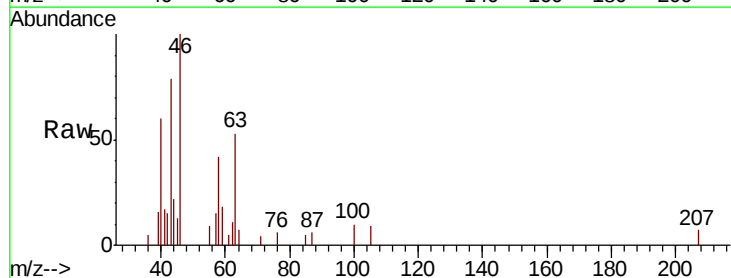


Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

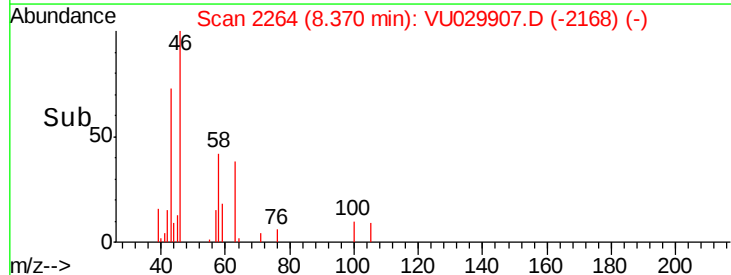
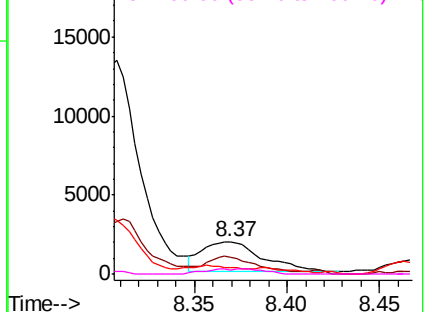


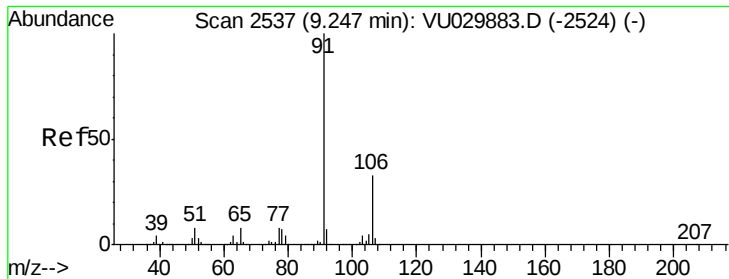
#48
2-Hexanone
Concen: 1.072 ug/L
RT: 8.37 min Scan# 2264
Delta R.T. 0.01 min
Lab File: VU029907.D
Acq: 08 Mar 2019 22:48

Tgt Ion: 43 Resp: 4192
Ion Ratio Lower Upper
43 100
58 48.6 46.4 69.6
57 22.2 15.7 23.5
100 5.6 10.9 16.3#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0





#52

Ethylbenzene

Concen: 0.382 ug/L

RT: 9.25 min Scan# 2538

Delta R.T. 0.00 min

Lab File: VU029907.D

Acq: 08 Mar 2019 22:48

Instrument :

MSVOA_U

ClientSampleId :

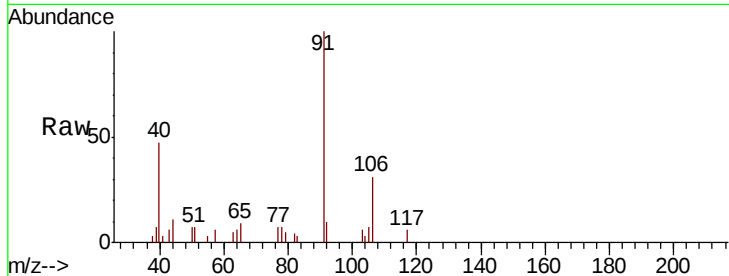
C0957

Tgt Ion: 91 Resp: 6226

Ion Ratio Lower Upper

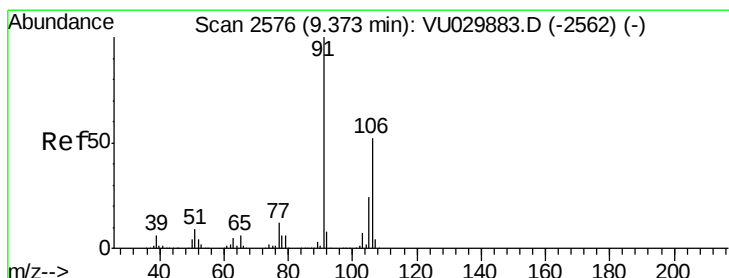
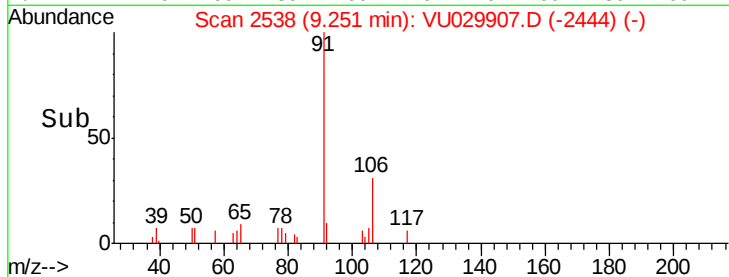
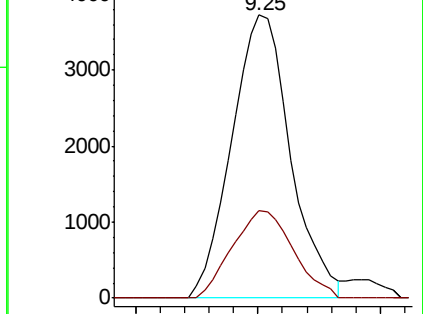
91 100

106 30.8 22.7 42.1



Abundance Ion 91.00 (90.70 to 91.70): VU029883.D (-2524) (-)

Ion 106.00 (105.70 to 106.70): VU029883.D (-2524) (-)



#53

m,p-Xylene

Concen: 0.408 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU029907.D

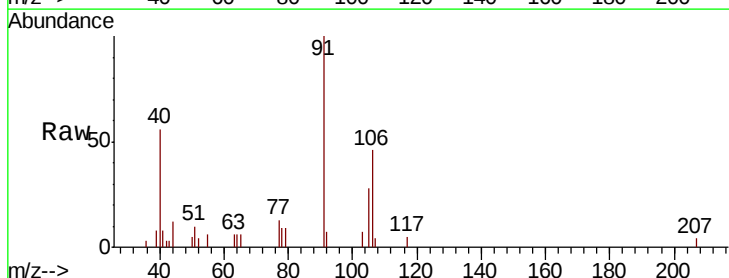
Acq: 08 Mar 2019 22:48

Tgt Ion: 106 Resp: 2666

Ion Ratio Lower Upper

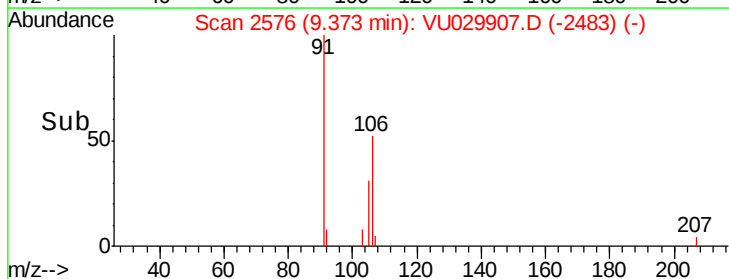
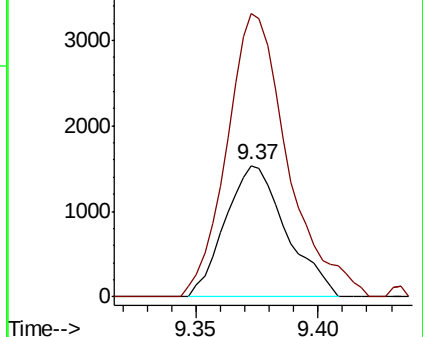
106 100

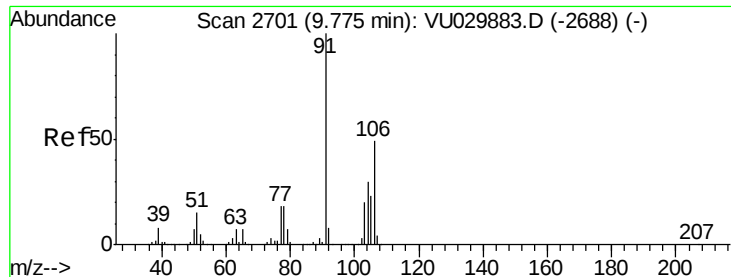
91 215.3 135.3 251.3



Abundance Ion 106.00 (105.70 to 106.70): VU029883.D (-2562) (-)

Ion 91.00 (90.70 to 91.70): VU029883.D (-2562) (-)





#54

o-xylene

Concen: 5.043 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU029907.D

Acq: 08 Mar 2019 22:48

Instrument :

MSVOA_U

ClientSampleId :

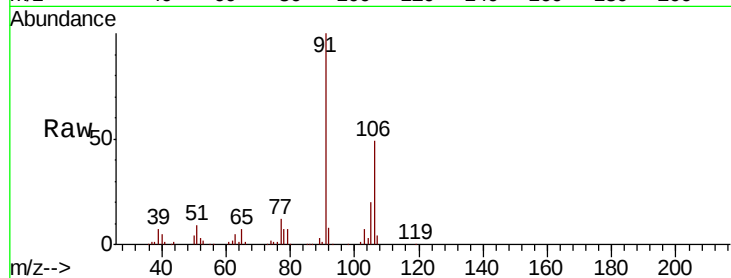
C0957

Tgt Ion:106 Resp: 33105

Ion Ratio Lower Upper

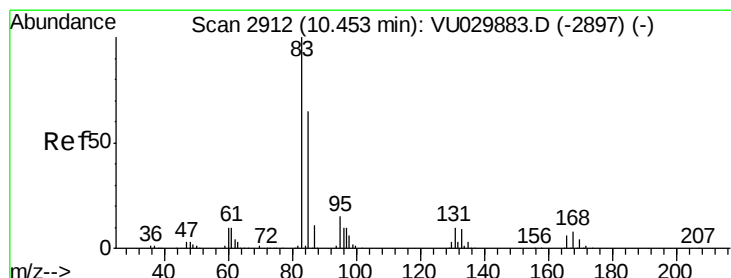
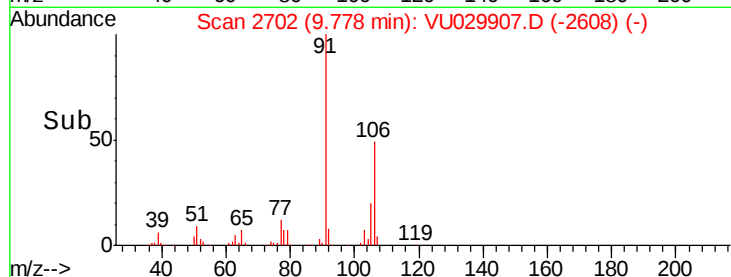
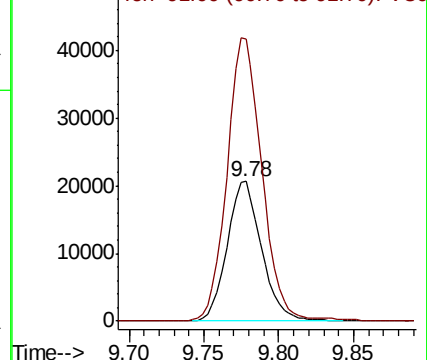
106 100

91 202.5 144.5 268.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#58

1,1,2,2-Tetrachloroethane

Concen: 0.573 ug/L

RT: 10.45 min Scan# 2911

Delta R.T. -0.00 min

Lab File: VU029907.D

Acq: 08 Mar 2019 22:48

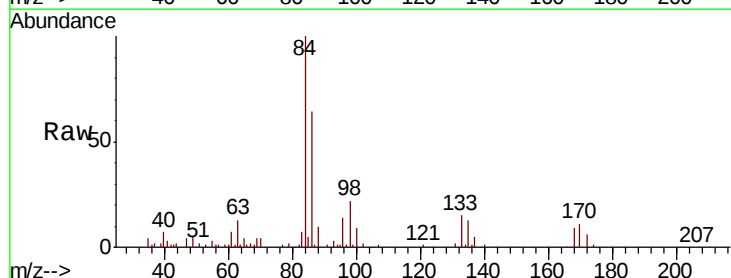
Tgt Ion: 83 Resp: 3438

Ion Ratio Lower Upper

83 100

85 72.3 45.5 84.5

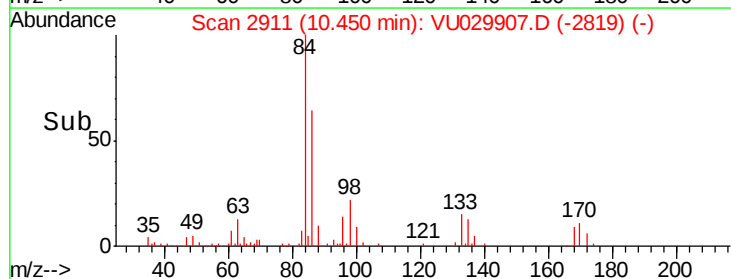
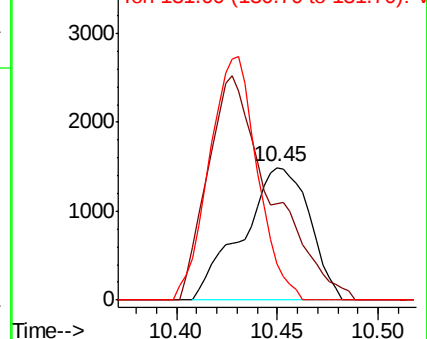
131 27.3 8.6 12.8#

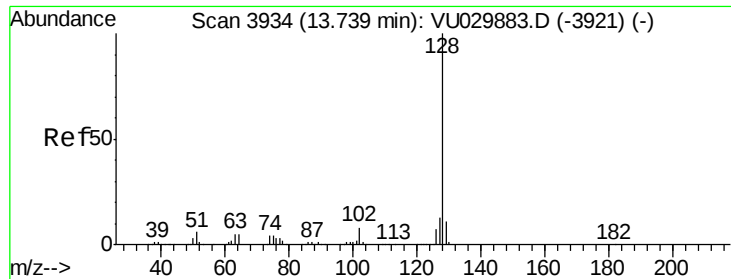


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#69

Naphthalene

Concen: 0.925 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU029907.D

Acq: 08 Mar 2019 22:48

Instrument :

MSVOA_U

ClientSampleId :

C0957

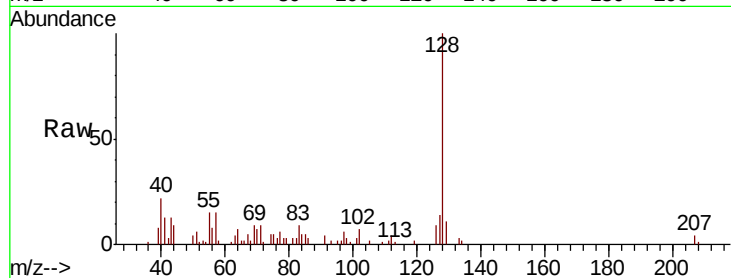
Tgt Ion:128 Resp: 14652

Ion Ratio Lower Upper

128 100

127 14.4 10.2 15.4

129 11.1 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

