

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU021519\
 Data File : VU029494.D
 Acq On : 15 Feb 2019 13:49
 Operator : JC/SP
 Sample : K1455-01 20X
 Misc : 4.86g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BE801

Quant Time: Feb 22 23:55:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM021519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Feb 15 23:28:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	433950	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	428692	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	235705	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	146812	46.17	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.34%
7) Chloroethane-d5	1.67	69	135587	47.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.92%
11) 1,1-Dichloroethene-d2	2.27	63	218003	35.07	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.14%
21) 2-Butanone-d5	4.17	46	180026	93.03	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	93.03%
24) Chloroform-d	4.64	84	227346	44.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.16%
26) 1,2-Dichloroethane-d4	5.31	65	156497	47.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.86%
32) Benzene-d6	5.34	84	524267	48.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.20%
36) 1,2-Dichloropropane-d6	6.33	67	157692	48.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.18%
41) Toluene-d8	7.56	98	533370	48.45	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.90%
43) trans-1,3-Dichloropropene-	7.85	79	79531	46.20	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.40%
47) 2-Hexanone-d5	8.31	63	165567	91.61	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.61%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	249480	45.49	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.98%
64) 1,2-Dichlorobenzene-d4	11.86	152	246367	48.50	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.40	62	8459	2.386	ug/L #	23
19) 1,1-Dichloroethane	3.45	63	7112	1.551	ug/L	92
20) cis-1,2-Dichloroethene	4.22	96	320643	104.039	ug/L	97
25) Chloroform	4.67	83	19939	3.897	ug/L	97
30) 1,1,1-Trichloroethane	4.91	97	13649	3.003	ug/L	95
34) Trichloroethene	6.18	95	66611	22.497	ug/L	97
42) Toluene	7.64	91	17968	1.382	ug/L	99
46) Tetrachloroethene	8.22	164	1502388	518.419	ug/L	99
51) Chlorobenzene	9.12	112	83808	9.394	ug/L	97
52) Ethylbenzene	9.25	91	76326	5.170	ug/L	99
53) m,p-Xylene	9.37	106	68767	11.605	ug/L	99
54) o-xylene	9.78	106	22480	3.777	ug/L	92
62) 1,3-Dichlorobenzene	11.42	146	12039	1.602	ug/L	97
63) 1,4-Dichlorobenzene	11.50	146	39083	5.168	ug/L	97
65) 1,2-Dichlorobenzene	11.88	146	32839	4.186	ug/L	95
68) 1,2,4-trichlorobenzene	13.50	180	14024	2.827	ug/L	92
70) 1,2,3-Trichlorobenzene	13.99	180	5498	1.044	ug/L #	91

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Quant Title : VOC Analysis
QLast Update : Fri Feb 15 23:28:02 2019
Response via : Initial Calibration

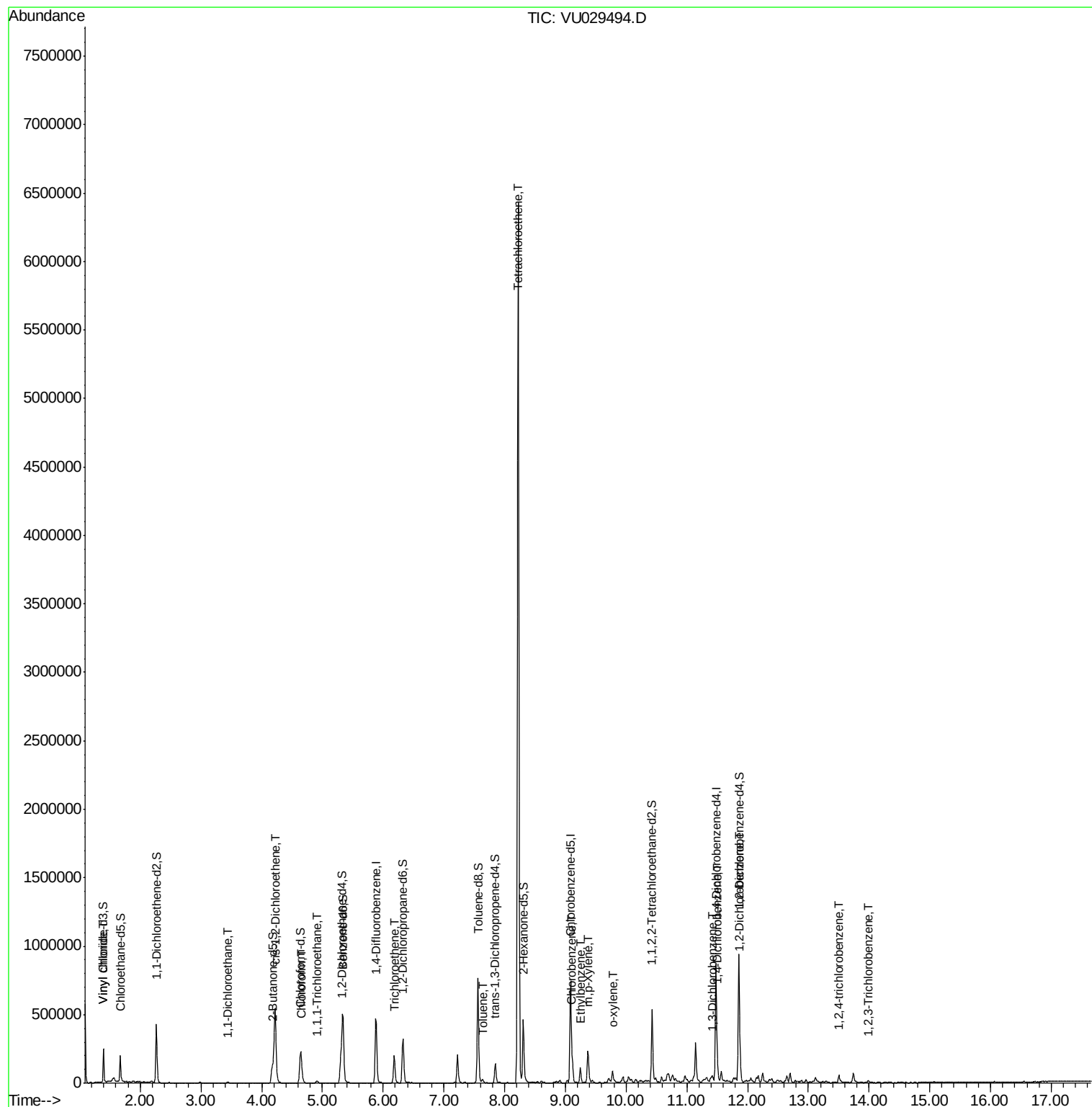
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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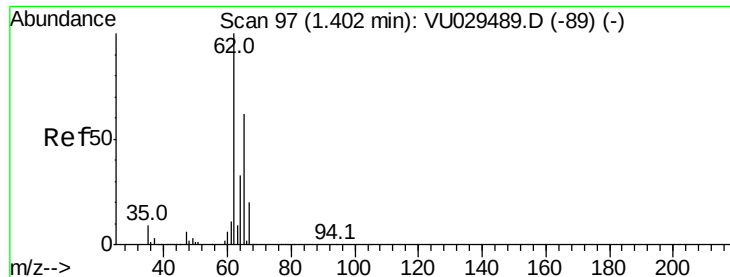
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.386 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU029494.D

Acq: 15 Feb 2019 13:49

Instrument :

MSVOA_U

ClientSampleId :

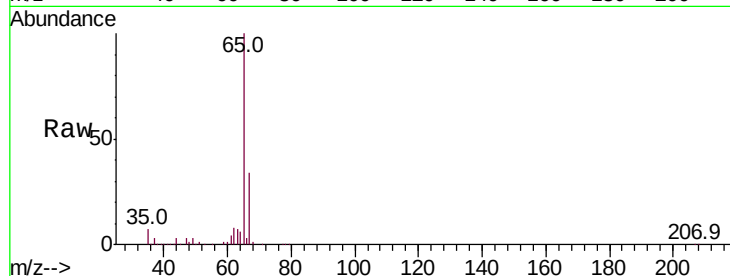
BE801

Tot Ion: 62 Resp: 8459

Ion Ratio Lower Upper

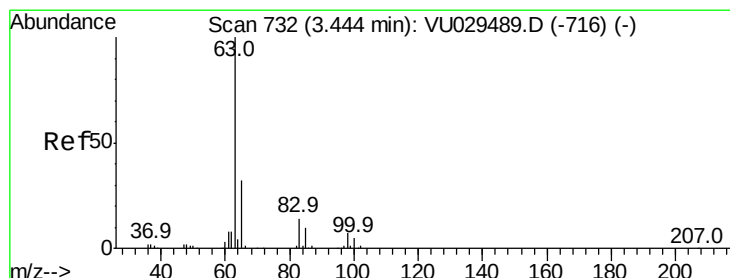
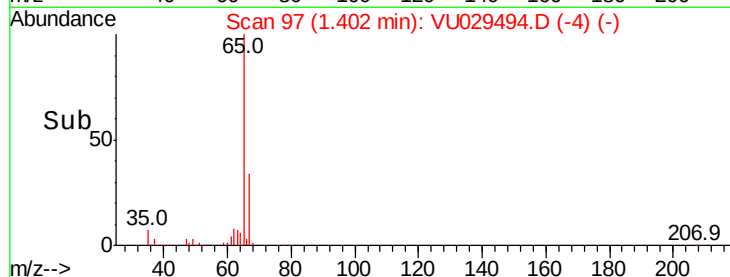
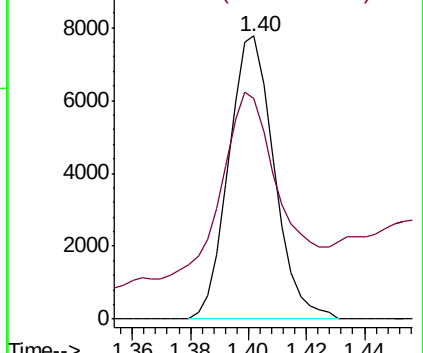
62 100

64 78.1 23.7 43.9#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#19

1,1-Dichloroethane

Concen: 1.551 ug/L

RT: 3.45 min Scan# 733

Delta R.T. 0.00 min

Lab File: VU029494.D

Acq: 15 Feb 2019 13:49

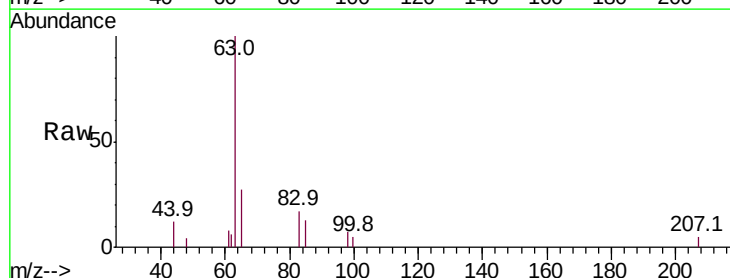
Tgt Ion: 63 Resp: 7112

Ion Ratio Lower Upper

63 100

65 27.3 22.3 41.3

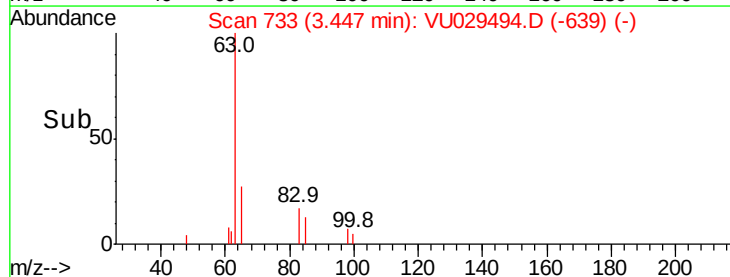
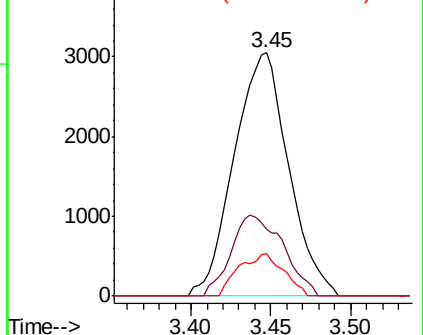
83 17.3 9.9 18.3

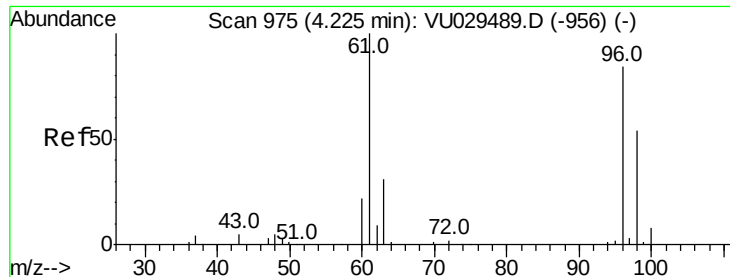


Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

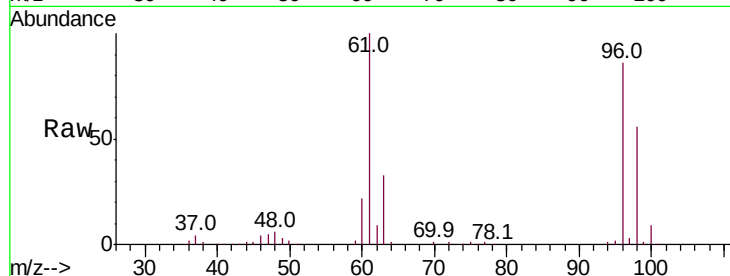




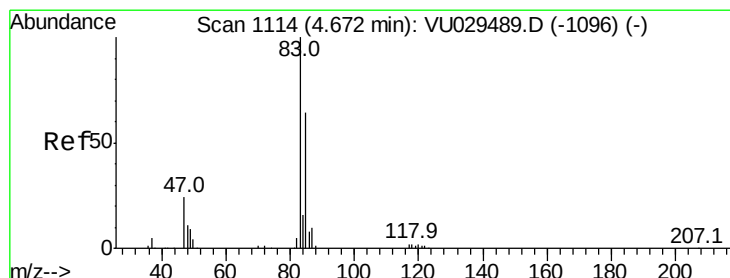
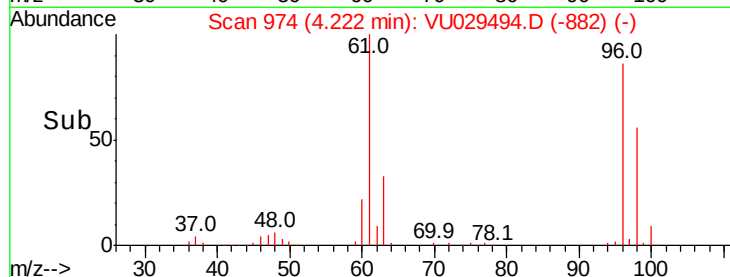
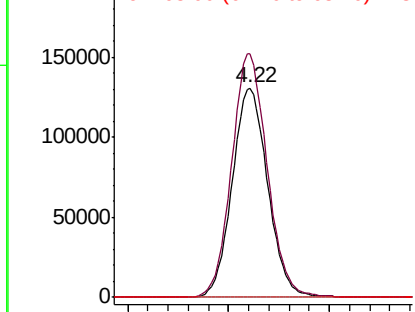
#20
 cis-1,2-Dichloroethene
 Concen: 104.039 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. -0.00 min
 Lab File: VU029494.D
 Acq: 15 Feb 2019 13:49

Instrument :
 MSVOA_U
 ClientSampleId :
 BE801

Tot Ion: 96 Resp: 320643
 Ion Ratio Lower Upper
 96 100
 61 116.2 83.9 155.7
 68 0.0 0.0 0.0

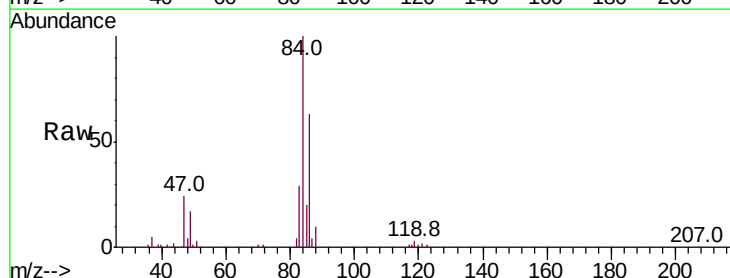


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0

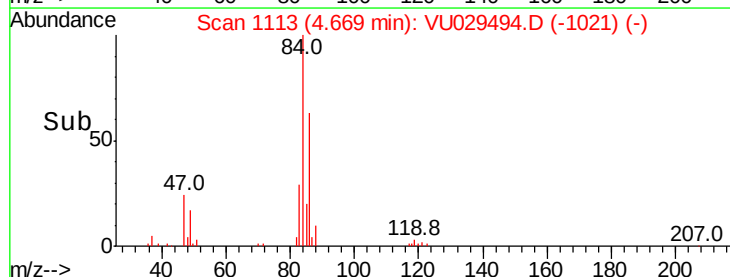
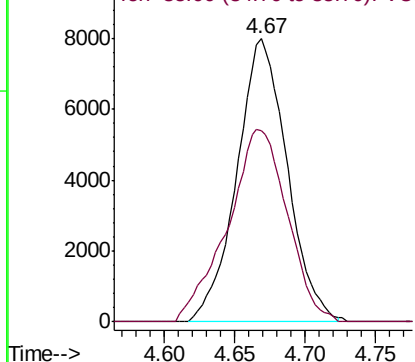


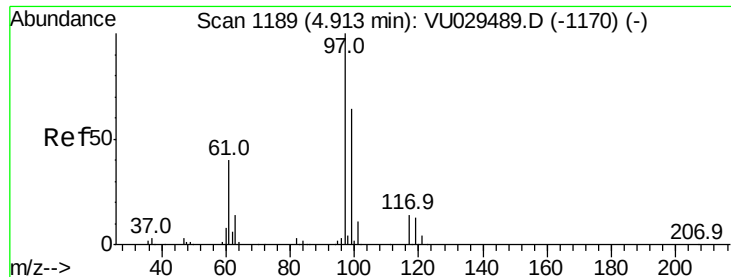
#25
 Chloroform
 Concen: 3.897 ug/L
 RT: 4.67 min Scan# 1113
 Delta R.T. -0.00 min
 Lab File: VU029494.D
 Acq: 15 Feb 2019 13:49

Tgt Ion: 83 Resp: 19939
 Ion Ratio Lower Upper
 83 100
 85 67.5 45.4 84.2



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

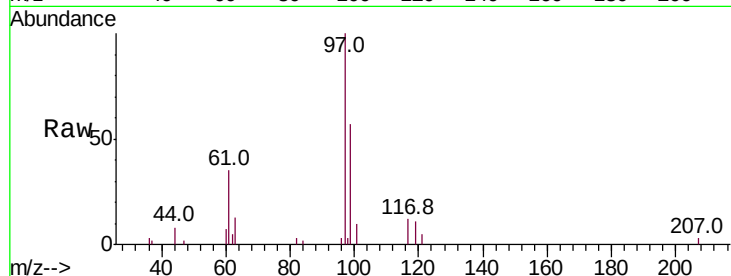




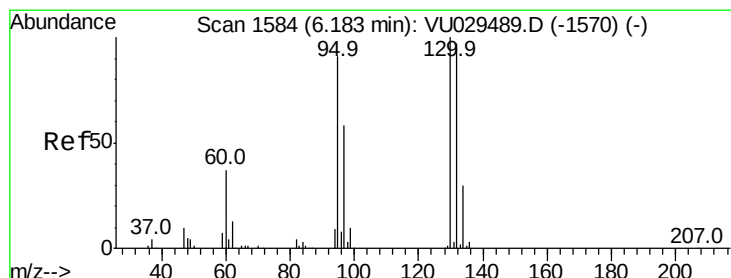
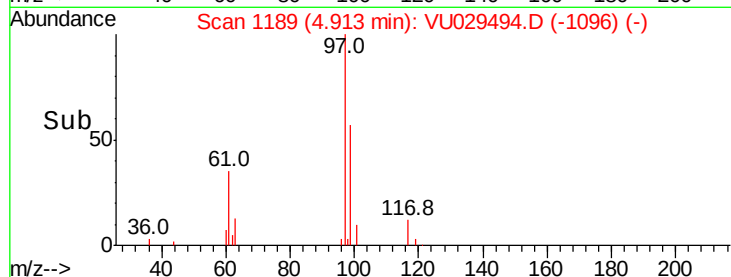
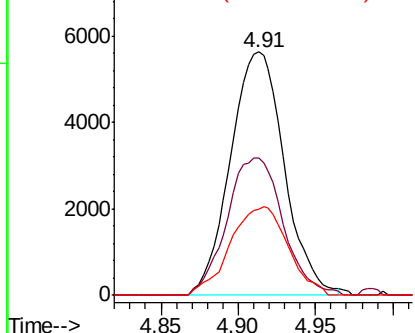
#30
 1,1,1-Trichloroethane
 Concen: 3.003 ug/L
 RT: 4.91 min Scan# 1189
 Delta R.T. -0.00 min
 Lab File: VU029494.D
 Acq: 15 Feb 2019 13:49

Instrument :
 MSVOA_U
 ClientSampleId :
 BE801

Tot Ion: 97 Resp: 13649
 Ion Ratio Lower Upper
 97 100
 99 58.4 51.4 77.0
 61 38.9 32.3 48.5

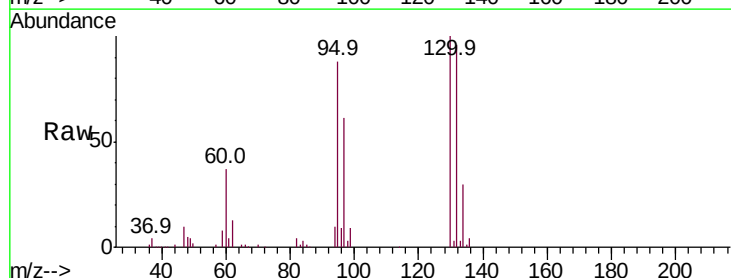


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0

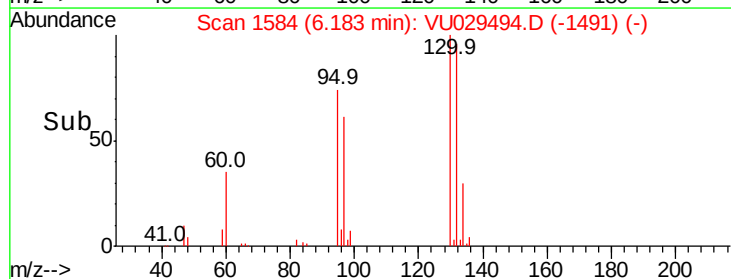
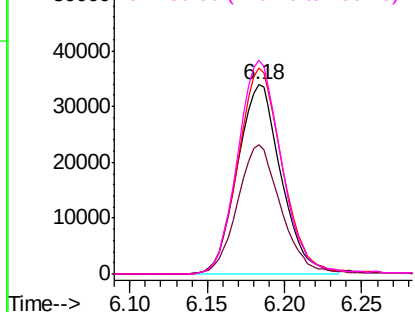


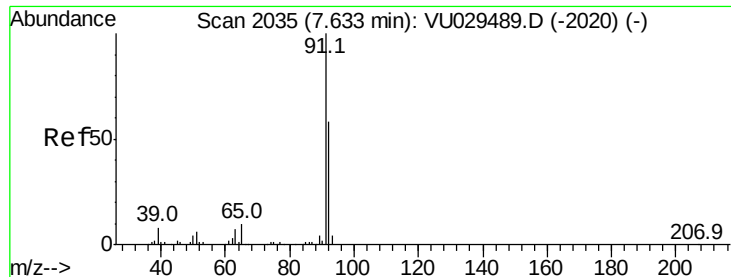
#34
 Trichloroethene
 Concen: 22.497 ug/L
 RT: 6.18 min Scan# 1584
 Delta R.T. -0.00 min
 Lab File: VU029494.D
 Acq: 15 Feb 2019 13:49

Tgt Ion: 95 Resp: 66611
 Ion Ratio Lower Upper
 95 100
 97 68.6 44.6 82.8
 132 109.1 74.6 138.6
 130 113.1 77.2 143.4



Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V





#42

Toluene

Concen: 1.382 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU029494.D

Acq: 15 Feb 2019 13:49

Instrument :

MSVOA_U

ClientSampled :

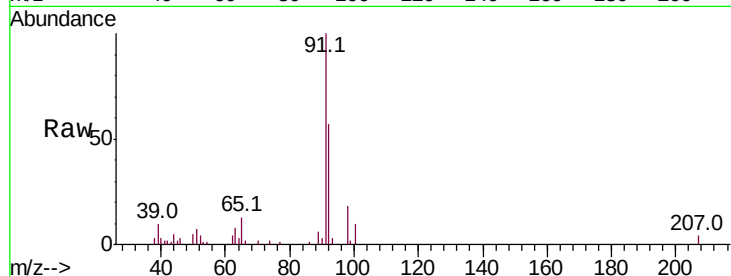
BE801

Tot Ion: 91 Resp: 17968

Ion Ratio Lower Upper

91 100

92 57.2 40.8 75.8



Abundance Ion 91.00 (90.70 to 91.70): VU029489.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU029489.D (-2020) (-)

7.64

10000

8000

6000

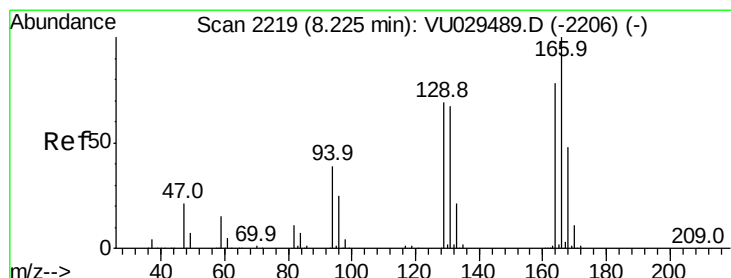
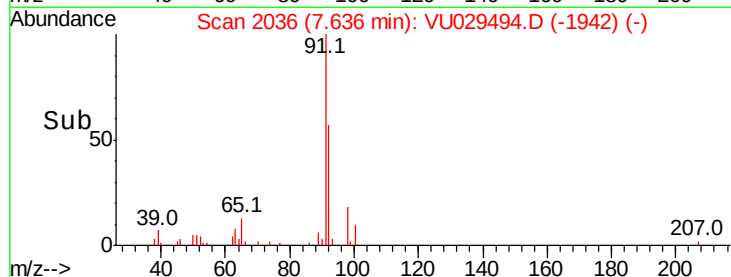
4000

2000

0

Time-->

7.60 7.65 7.70



#46

Tetrachloroethene

Concen: 518.419 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. -0.00 min

Lab File: VU029494.D

Acq: 15 Feb 2019 13:49

Tgt Ion:164 Resp: 1502388

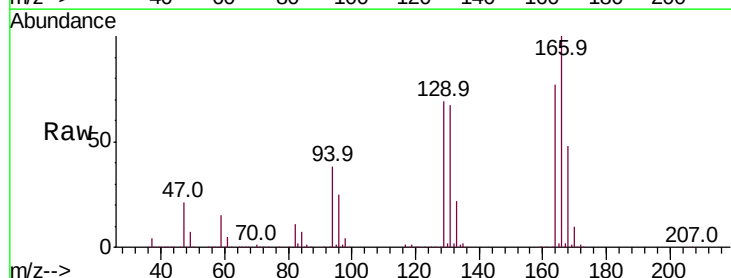
Ion Ratio Lower Upper

164 100

129 88.8 62.1 115.3

131 86.9 60.1 111.5

166 129.1 89.7 166.5



Abundance Ion 164.00 (163.70 to 164.70): VU029489.D (-2206) (-)

Ion 129.00 (128.70 to 129.70): VU029489.D (-2206) (-)

Ion 131.00 (130.70 to 131.70): VU029489.D (-2206) (-)

Ion 166.00 (165.70 to 166.70): VU029489.D (-2206) (-)

1500000

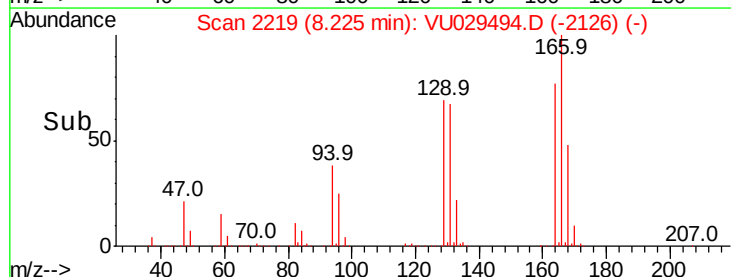
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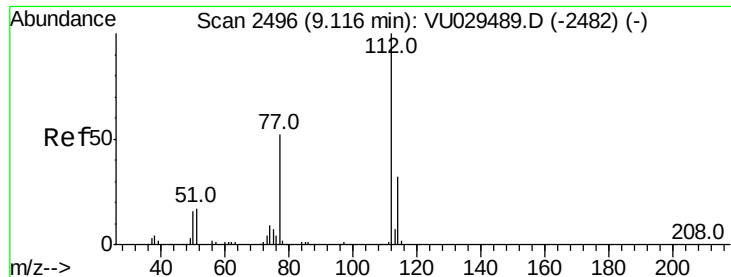
500000

0

Time-->

8.10 8.20 8.30 8.40





#51

Chlorobenzene

Concen: 9.394 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU029494.D

Acq: 15 Feb 2019 13:49

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BE801

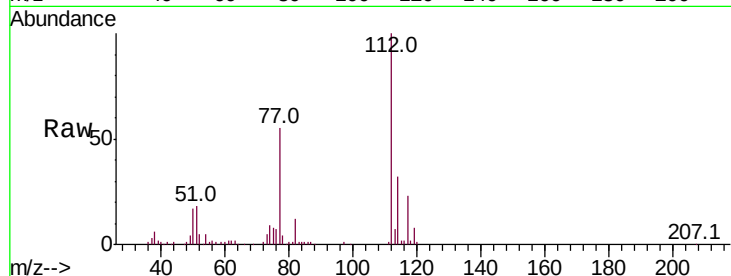
Tot Ion:112 Resp: 83808

Ion Ratio Lower Upper

112 100

114 31.8 22.7 42.1

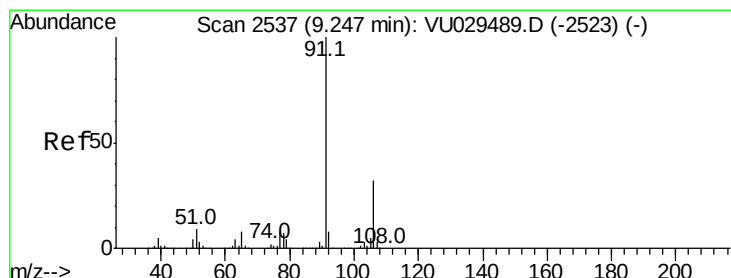
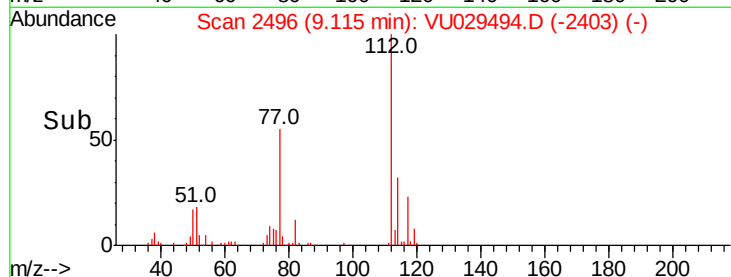
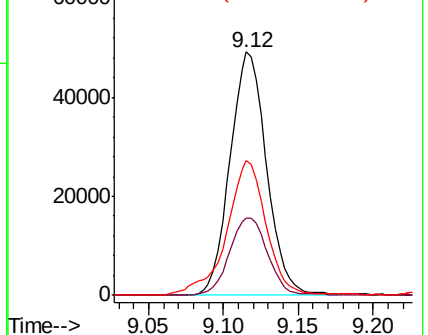
77 55.1 42.1 63.1



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0



#52

Ethylbenzene

Concen: 5.170 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU029494.D

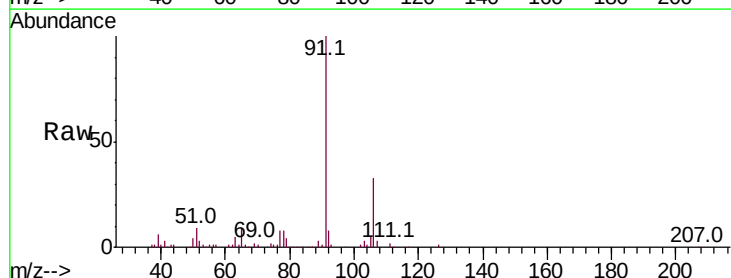
Acq: 15 Feb 2019 13:49

Tgt Ion: 91 Resp: 76326

Ion Ratio Lower Upper

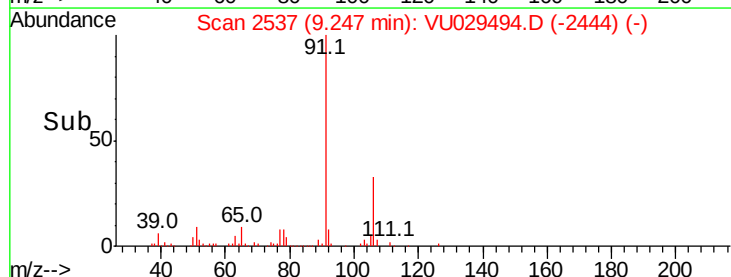
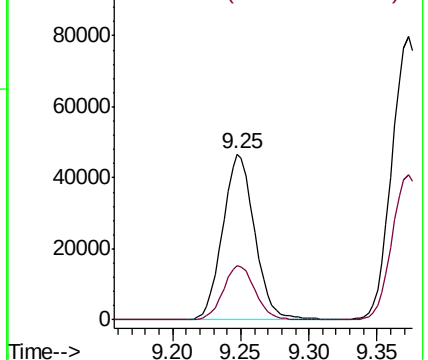
91 100

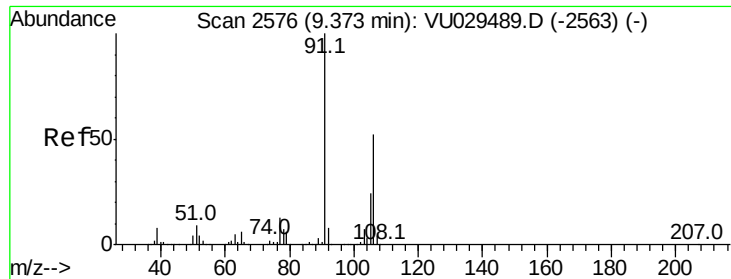
106 32.9 22.7 42.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 11.605 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU029494.D

Acq: 15 Feb 2019 13:49

Instrument :

MSVOA_U

ClientSampleId :

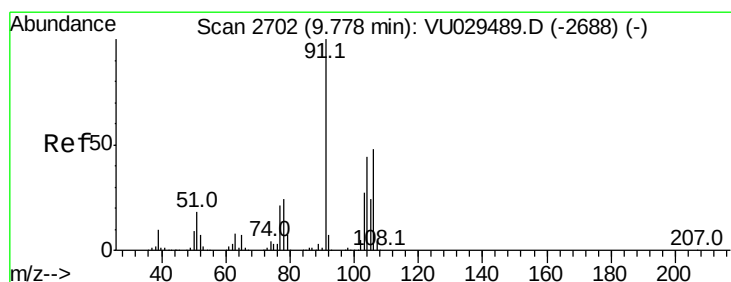
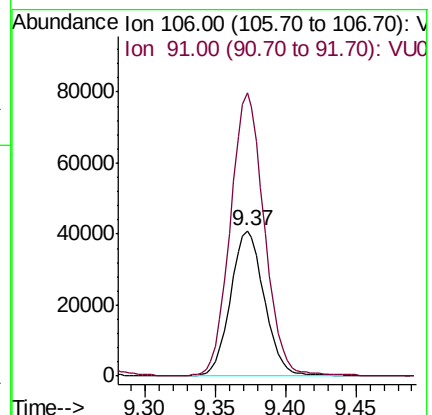
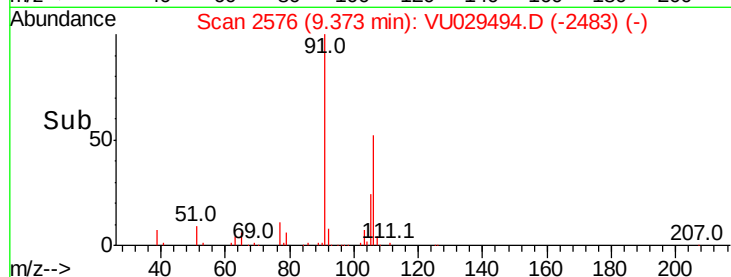
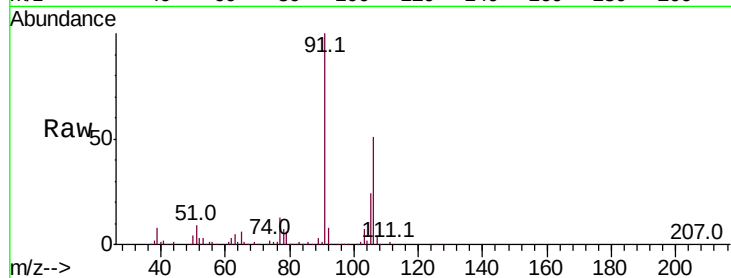
BE801

Tot Ion:106 Resp: 68767

Ion Ratio Lower Upper

106 100

91 194.2 135.3 251.3



#54

o-xylene

Concen: 3.777 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. -0.00 min

Lab File: VU029494.D

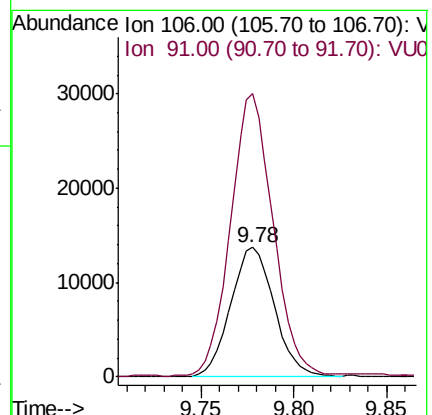
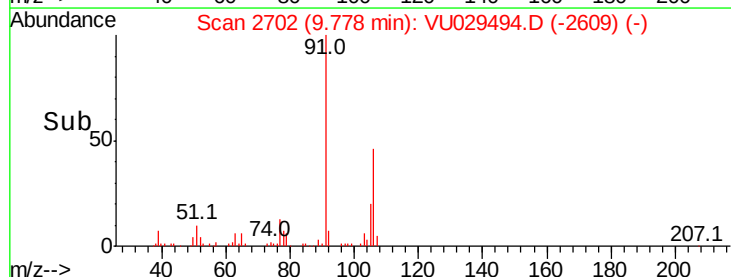
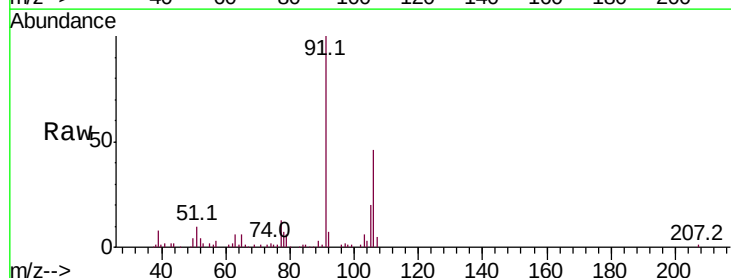
Acq: 15 Feb 2019 13:49

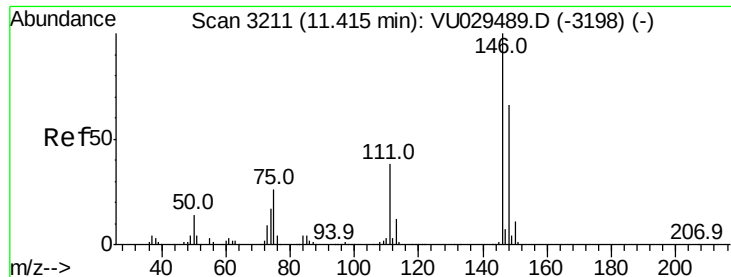
Tgt Ion:106 Resp: 22480

Ion Ratio Lower Upper

106 100

91 218.9 144.5 268.3





#62

1,3-Dichlorobenzene

Concen: 1.602 ug/L

RT: 11.42 min Scan# 3212

Delta R.T. 0.00 min

Lab File: VU029494.D

Acq: 15 Feb 2019 13:49

Instrument :

MSVOA_U

ClientSampleId :

BE801

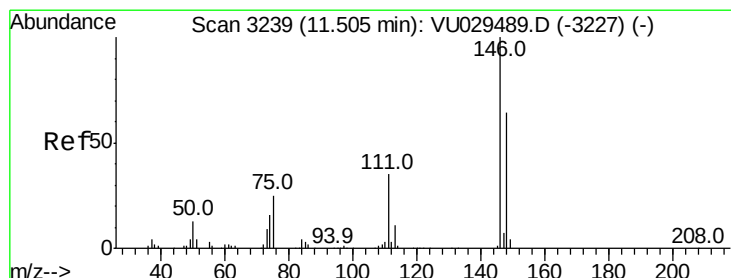
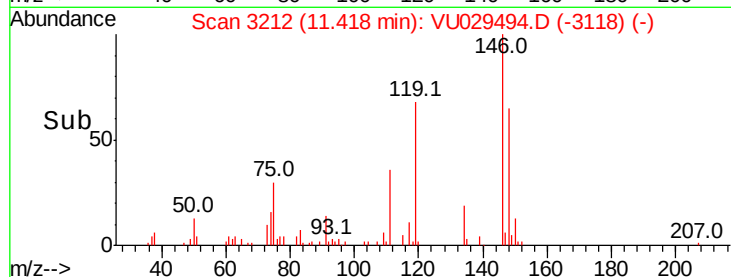
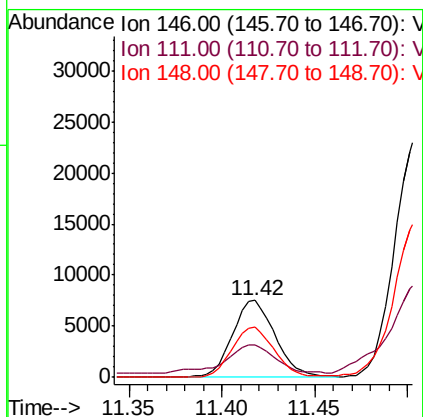
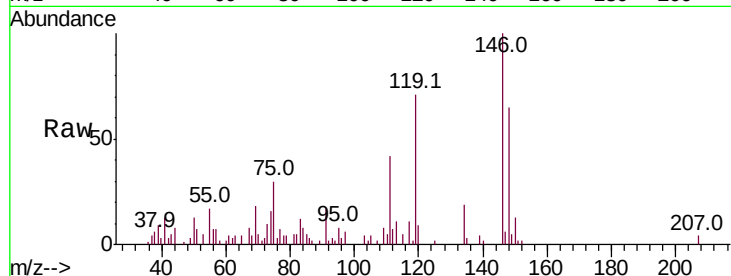
Tot Ion:146 Resp: 12039

Ion Ratio Lower Upper

146 100

111 42.0 26.7 49.5

148 65.0 45.9 85.3



#63

1,4-Dichlorobenzene

Concen: 5.168 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU029494.D

Acq: 15 Feb 2019 13:49

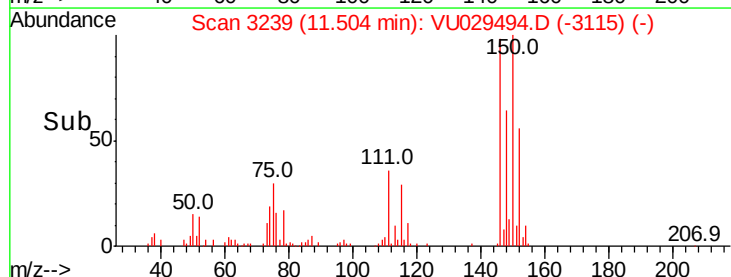
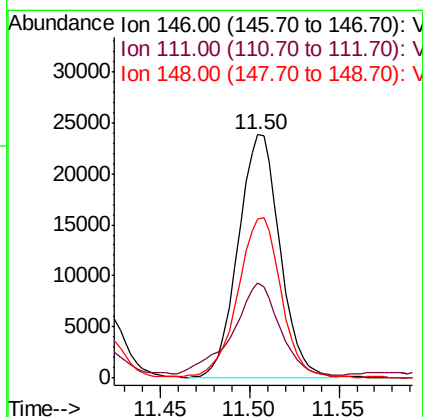
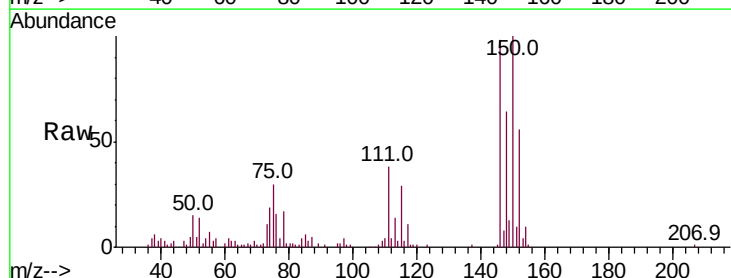
Tgt Ion:146 Resp: 39083

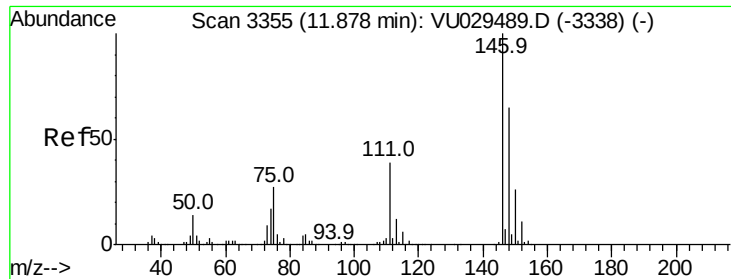
Ion Ratio Lower Upper

146 100

111 38.9 25.1 46.5

148 65.4 45.0 83.6

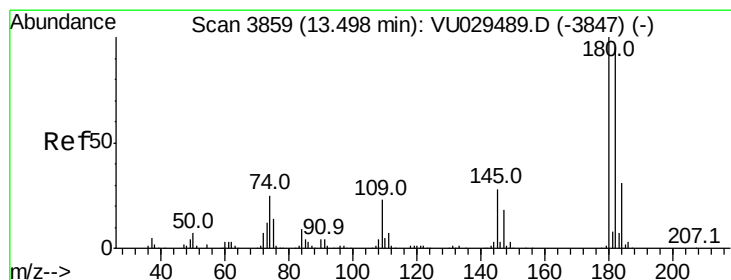
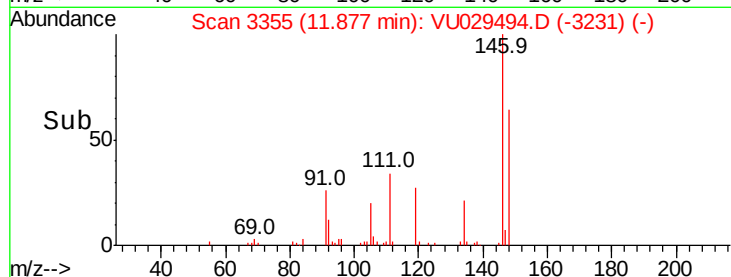
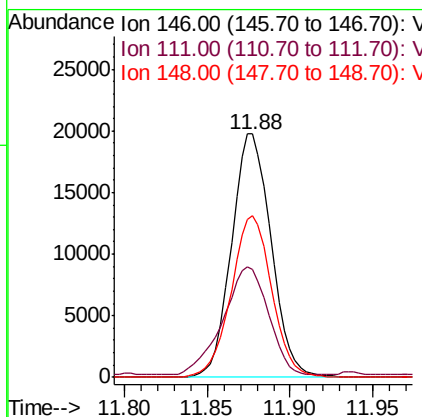
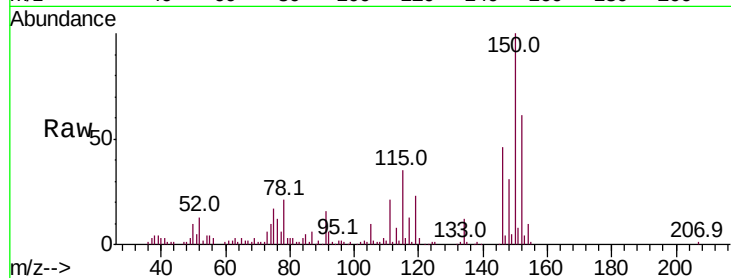




#65
 1,2-Dichlorobenzene
 Concen: 4.186 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. -0.00 min
 Lab File: VU029494.D
 Acq: 15 Feb 2019 13:49

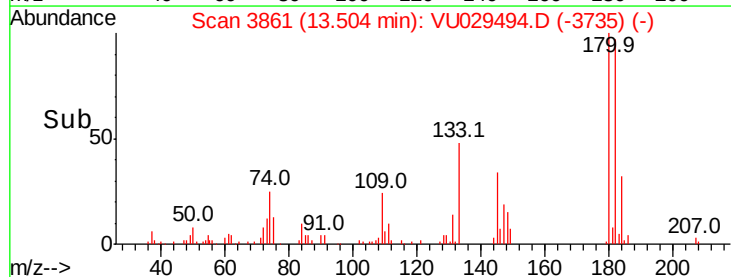
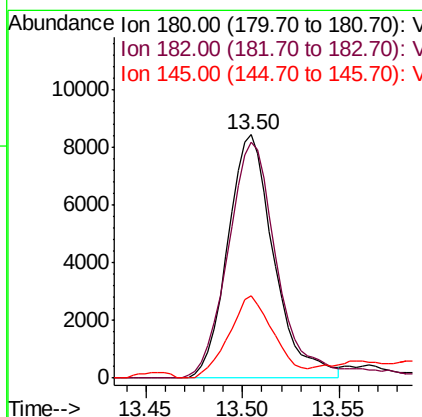
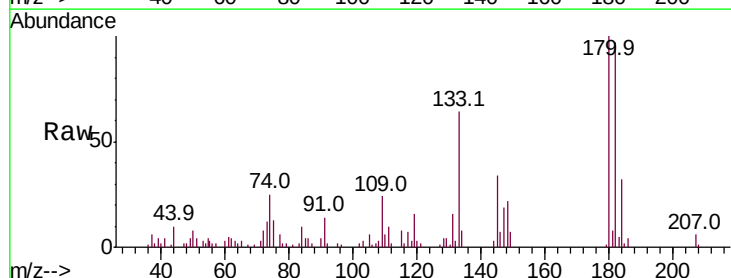
Instrument :
 MSVOA_U
 ClientSampleId :
 BE801

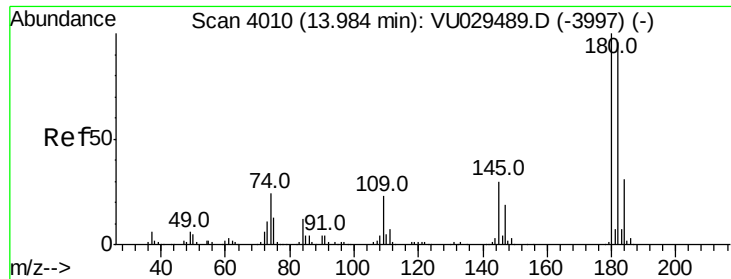
Tot Ion:146 Resp: 32839
 Ion Ratio Lower Upper
 146 100
 111 44.2 31.2 46.8
 148 66.6 51.6 77.4



#68
 1,2,4-trichlorobenzene
 Concen: 2.827 ug/L
 RT: 13.50 min Scan# 3861
 Delta R.T. 0.01 min
 Lab File: VU029494.D
 Acq: 15 Feb 2019 13:49

Tgt Ion:180 Resp: 14024
 Ion Ratio Lower Upper
 180 100
 182 103.1 76.2 114.2
 145 33.0 22.7 34.1





#70
 1,2,3-Trichlorobenzene
 Concen: 1.044 ug/L
 RT: 13.99 min Scan# 4011
 Delta R.T. 0.00 min
 Lab File: VU029494.D
 Acq: 15 Feb 2019 13:49

Instrument :
 MSVOA_U
 ClientSampleId :
 BE801

Tot Ion:180 Resp: 5498
 Ion Ratio Lower Upper
 180 100
 182 95.4 76.8 115.2
 145 49.9 24.4 36.6#

