

Data File : VU029635.D
Acq On : 22 Feb 2019 21:16
Operator : JC/SP
Sample : K1581-19
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
DB629

Quant Time: Feb 22 23:12:38 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM021519WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Feb 22 23:08:46 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	487308	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	484906	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	262998	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	128386	35.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	71.90%
7) Chloroethane-d5	1.68	69	117550	37.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	74.06%
11) 1,1-Dichloroethene-d2	2.27	63	182520	26.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	52.30%#
21) 2-Butanone-d5	4.17	46	239964	110.43	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	110.43%
24) Chloroform-d	4.65	84	258995	44.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.44%
26) 1,2-Dichloroethane-d4	5.31	65	167303	45.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.26%
32) Benzene-d6	5.34	84	545264	44.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.38%
36) 1,2-Dichloropropane-d6	6.33	67	170366	46.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.82%
41) Toluene-d8	7.56	98	529696	42.54	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.08%
43) trans-1,3-Dichloropropene-	7.85	79	82007	42.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.24%
47) 2-Hexanone-d5	8.31	63	212292	103.85	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.85%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	299000	48.20	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.40%
64) 1,2-Dichlorobenzene-d4	11.86	152	257373	45.41	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.82%

Target Compounds

						Qvalue
13) Acetone	2.32	43	200676	86.422	ug/L	90
18) Methyl tert-butyl Ether	3.00	73	34878	3.782	ug/L #	1
19) 1,1-Dichloroethane	3.56	63	5171	1.004	ug/L #	1
22) 2-Butanone	4.26	43	72245	27.262	ug/L	99
27) 1,2-Dichloroethane	5.39	62	70332	15.920	ug/L #	76
29) Cyclohexane	4.99	56	469807	97.903	ug/L	96
33) Benzene	5.39	78	9350097	752.083	ug/L	100
34) Trichloroethene	6.22	95	6908	2.063	ug/L #	10
35) Methylcyclohexane	6.41	83	354265	63.695	ug/L #	85
40) 4-Methyl-2-pentanone	7.46	43	4889	1.065	ug/L #	89
42) Toluene	7.63	91	740542	50.369	ug/L	99
44) trans-1,3-Dichloropropene	7.85	75	3465	0.698	ug/L #	1
45) 1,1,2-Trichloroethane	8.04	97	31631	9.093	ug/L #	21
48) 2-Hexanone	8.36	43	15796	3.940	ug/L #	1
52) Ethylbenzene	9.25	91	992418	59.434	ug/L	100
53) m,p-Xylene	9.37	106	556556	83.033	ug/L	99
54) o-xylene	9.78	106	23283	3.458	ug/L	90

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU022219\
Quantitation Report (Not Reviewed)

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QLast Update : Fri Feb 22 23:08:46 2019
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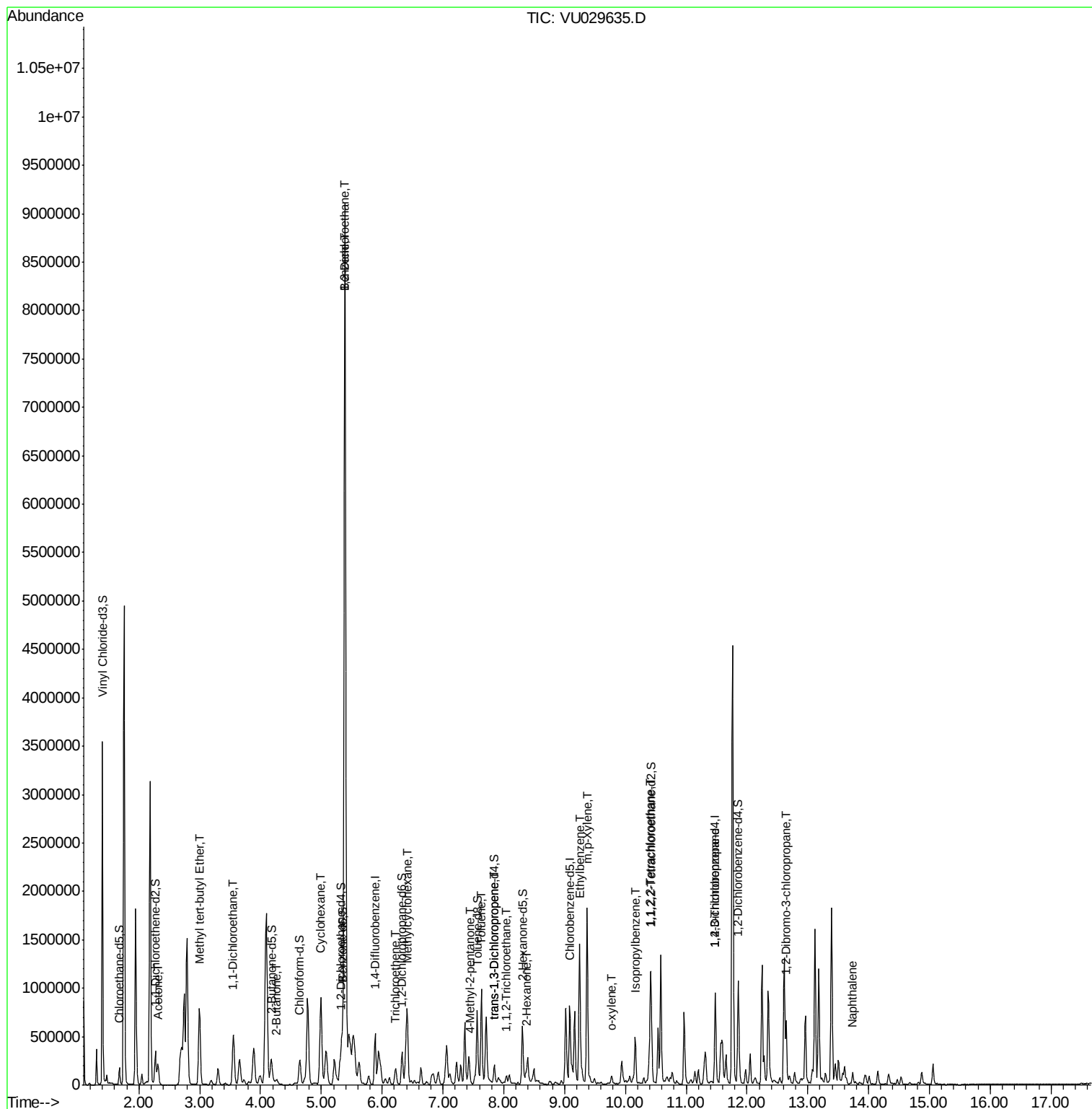
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	10.16	105	310415	17.619	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.41	83	6810	1.107	ug/L #	97
59) 1,2,3-Trichloropropane	11.48	75	26608	5.718	ug/L	92
66) 1,2-Dibromo-3-chloropropan	12.65	75	2765	2.030	ug/L #	1
69) Naphthalene	13.74	128	98858	5.811	ug/L	98

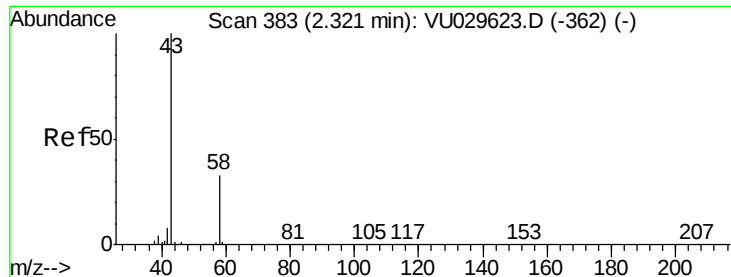
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 86.422 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU029635.D

Acq: 22 Feb 2019 21:16

Instrument :

MSVOA_U

ClientSampleId :

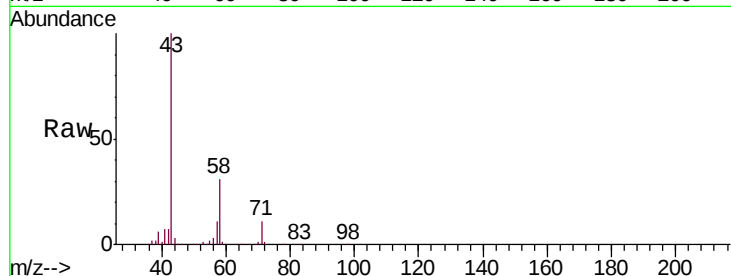
DB629

Tgt Ion: 43 Resp: 200676

Ion Ratio Lower Upper

43 100

58 27.8 0.0 66.8



Abundance Ion 43.00 (42.70 to 43.70): VU029623.D (-362) (-)

Ion 58.00 (57.70 to 58.70): VU029623.D (-362) (-)

2.32

120000

100000

80000

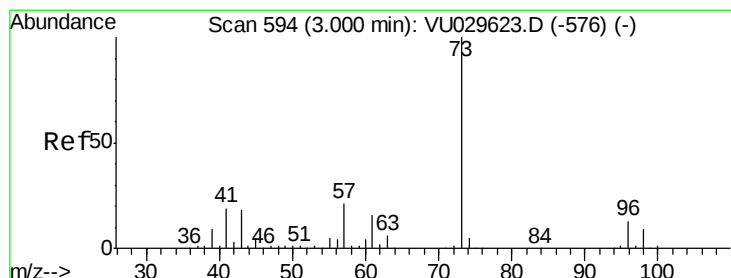
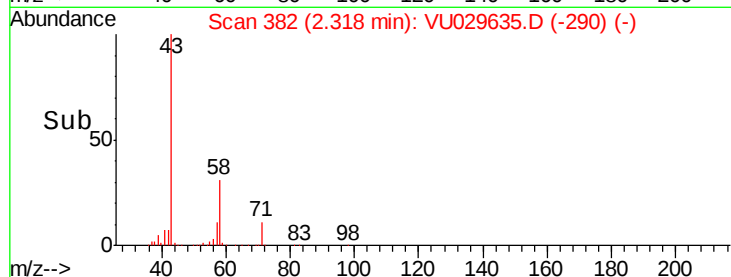
60000

40000

20000

0

Time--> 2.20 2.30 2.40



#18

Methyl tert-butyl Ether

Concen: 3.782 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU029635.D

Acq: 22 Feb 2019 21:16

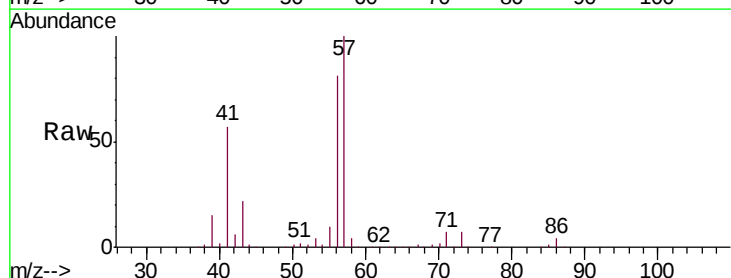
Tgt Ion: 73 Resp: 34878

Ion Ratio Lower Upper

73 100

43 321.5 14.8 22.2#

57 1446.7 16.5 24.7#



Abundance Ion 73.00 (72.70 to 73.70): VU029623.D (-576) (-)

Ion 43.00 (42.70 to 43.70): VU029623.D (-576) (-)

Ion 57.00 (56.70 to 57.70): VU029623.D (-576) (-)

3.00

300000

250000

200000

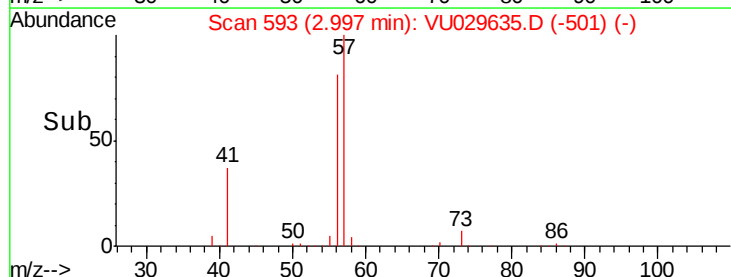
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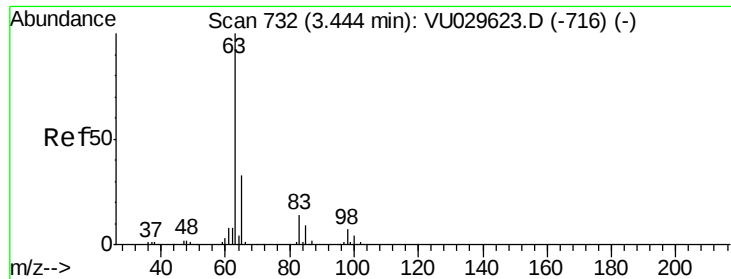
100000

50000

0

Time--> 2.90 2.95 3.00 3.05 3.10

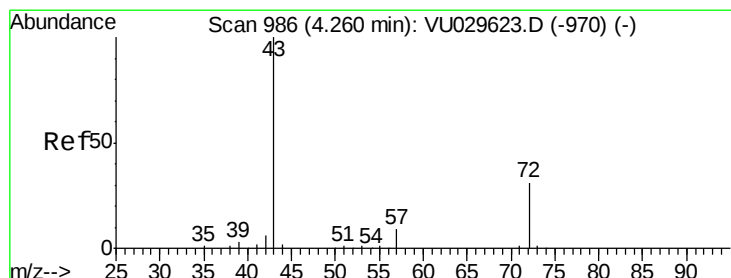
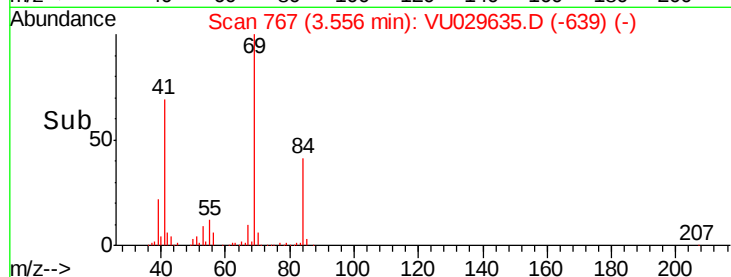
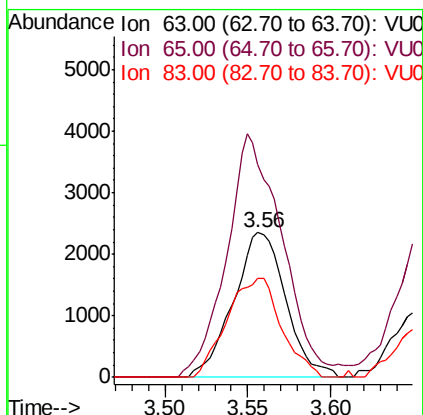
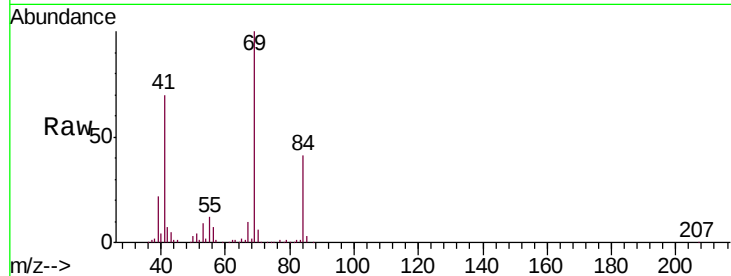




#19
 1,1-Dichloroethane
 Concen: 1.004 ug/L
 RT: 3.56 min Scan# 767
 Delta R.T. 0.11 min
 Lab File: VU029635.D
 Acq: 22 Feb 2019 21:16

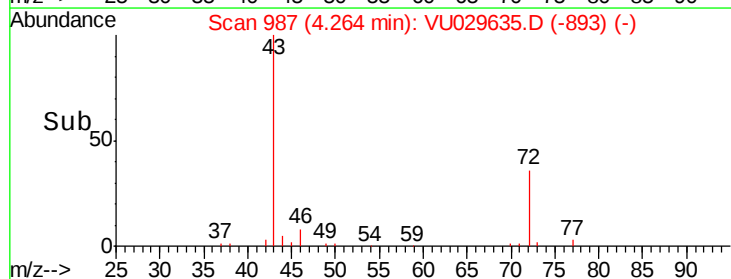
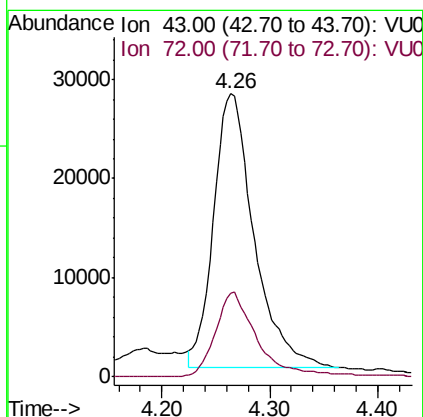
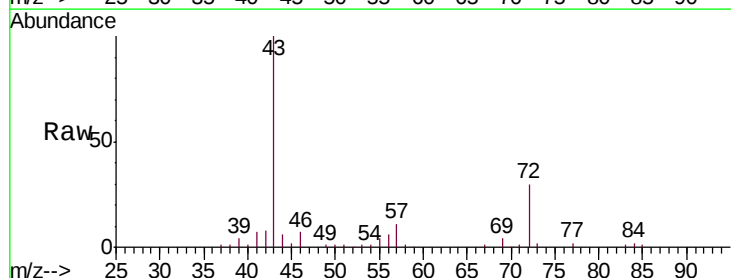
Instrument :
 MSVOA_U
 ClientSampleID :
 DB629

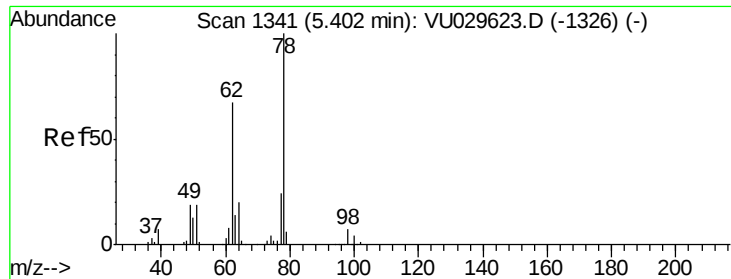
Tgt Ion: 63 Resp: 5171
 Ion Ratio Lower Upper
 63 100
 65 146.5 22.3 41.3#
 83 68.4 9.9 18.3#



#22
 2-Butanone
 Concen: 27.262 ug/L
 RT: 4.26 min Scan# 987
 Delta R.T. 0.00 min
 Lab File: VU029635.D
 Acq: 22 Feb 2019 21:16

Tgt Ion: 43 Resp: 72245
 Ion Ratio Lower Upper
 43 100
 72 30.8 15.2 45.6

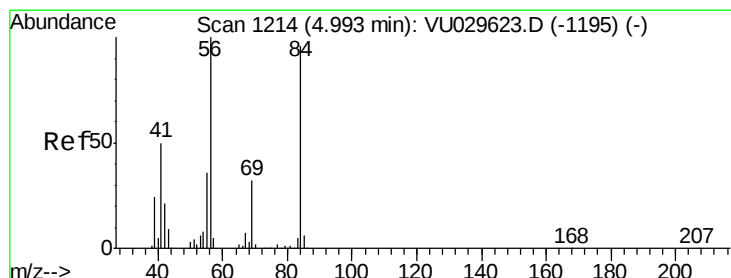
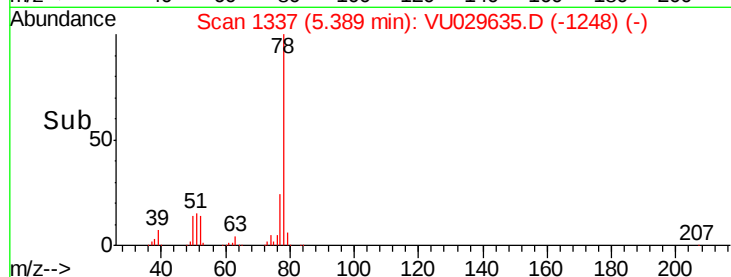
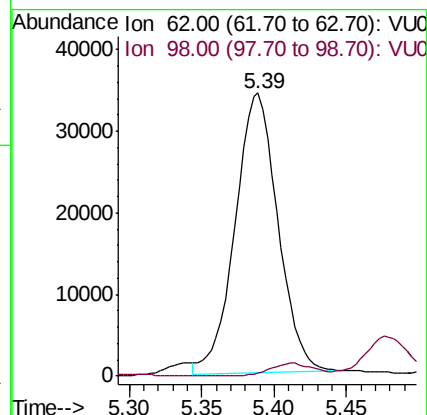
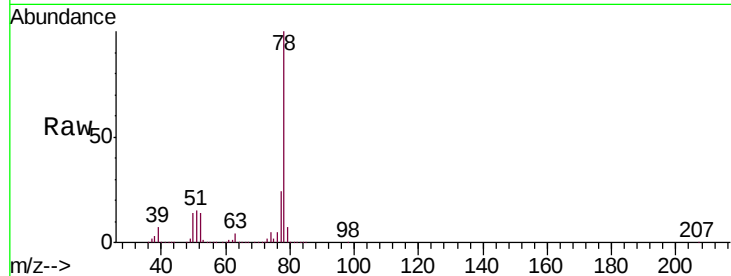




#27
1,2-Dichloroethane
Concen: 15.920 ug/L
RT: 5.39 min Scan# 1337
Delta R.T. -0.01 min
Lab File: VU029635.D
Acq: 22 Feb 2019 21:16

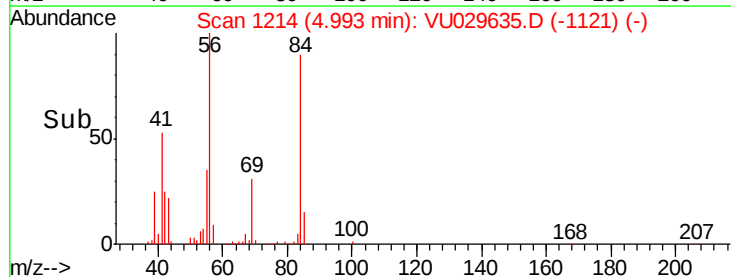
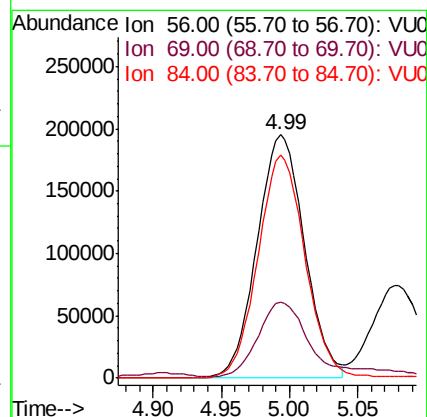
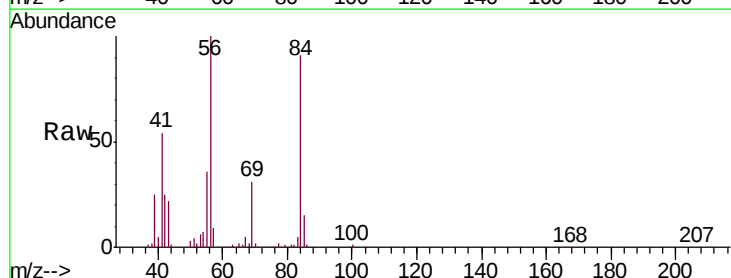
Instrument :
MSVOA_U
ClientSampleId :
DB629

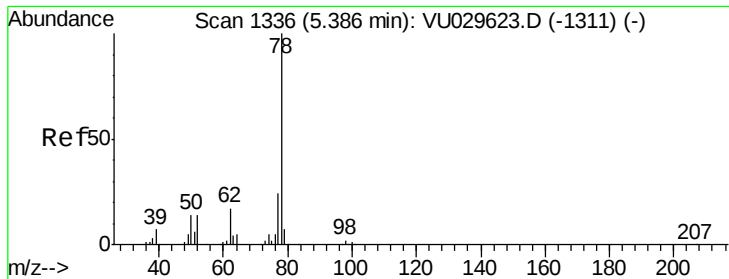
Tgt Ion: 62 Resp: 70332
Ion Ratio Lower Upper
62 100
98 1.0 7.8 11.8#



#29
Cyclohexane
Concen: 97.903 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VU029635.D
Acq: 22 Feb 2019 21:16

Tgt Ion: 56 Resp: 469807
Ion Ratio Lower Upper
56 100
69 32.5 25.7 38.5
84 91.8 77.1 115.7





#33

Benzene

Concen: 752.083 ug/L

RT: 5.39 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU029635.D

Acq: 22 Feb 2019 21:16

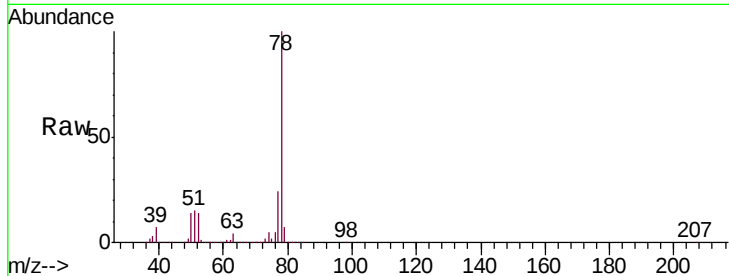
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MSVOA_U

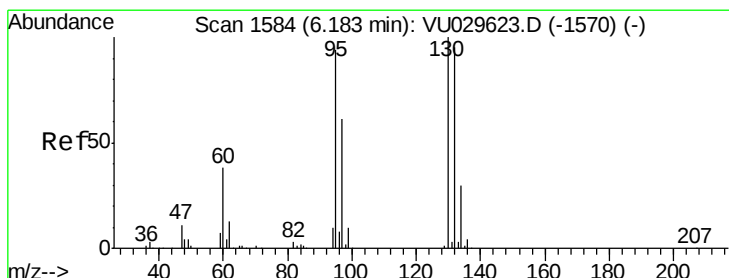
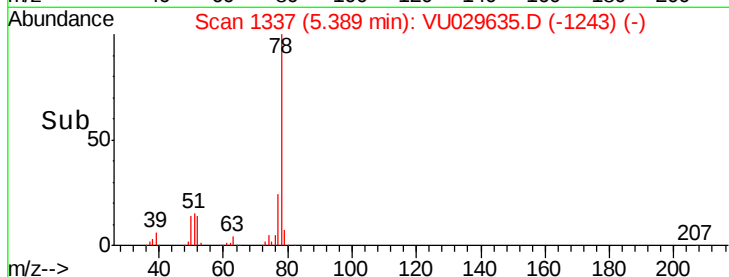
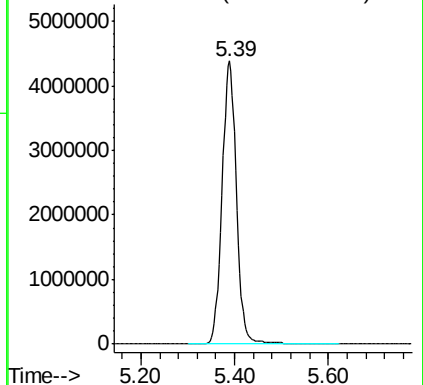
ClientSampleId :

DB629

Tgt Ion: 78 Resp: 9350097



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 2.063 ug/L

RT: 6.22 min Scan# 1596

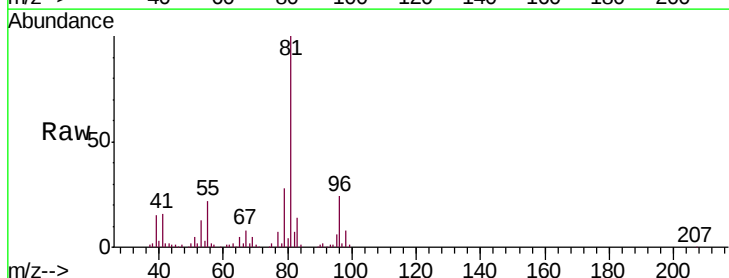
Delta R.T. 0.04 min

Lab File: VU029635.D

Acq: 22 Feb 2019 21:16

Tgt Ion: 95 Resp: 6908

Ion	Ratio	Lower	Upper
95	100		
97	30.2	44.6	82.8#
132	0.0	74.6	138.6#
130	0.0	77.2	143.4#

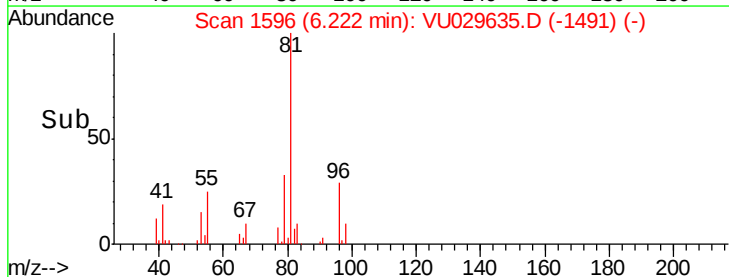
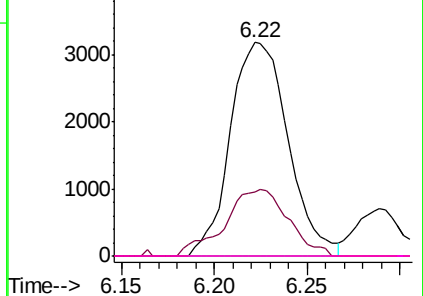


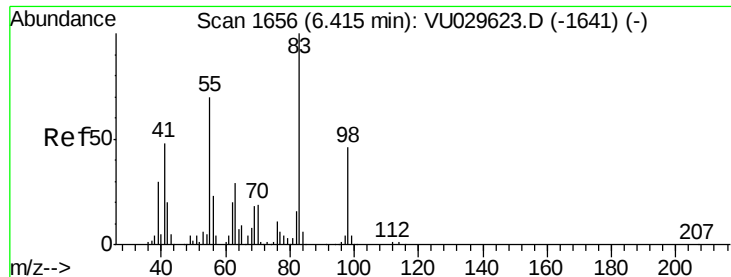
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

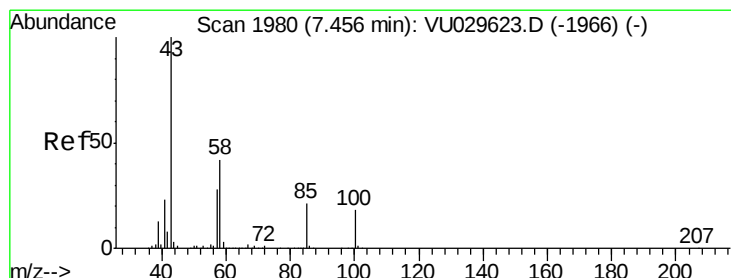
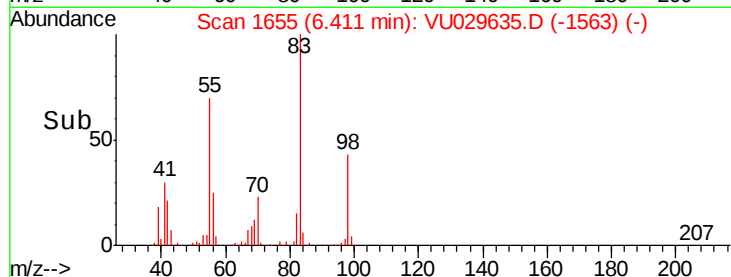
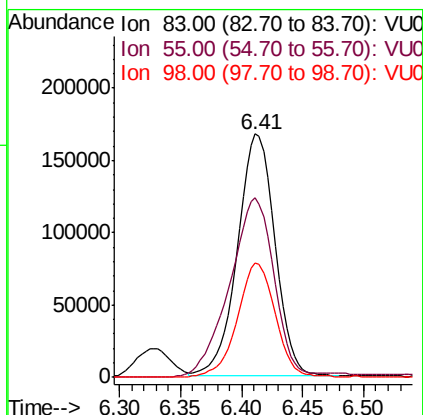
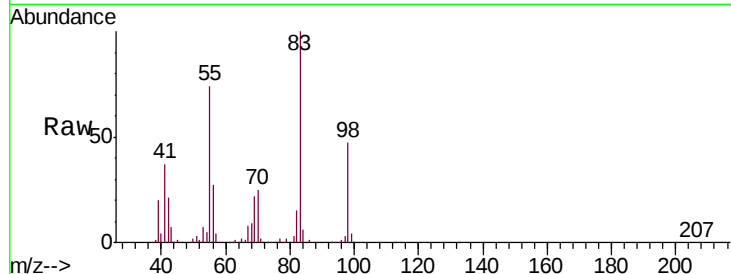




#35
Methylcyclohexane
Concen: 63.695 ug/L
RT: 6.41 min Scan# 1655
Delta R.T. -0.00 min
Lab File: VU029635.D
Acq: 22 Feb 2019 21:16

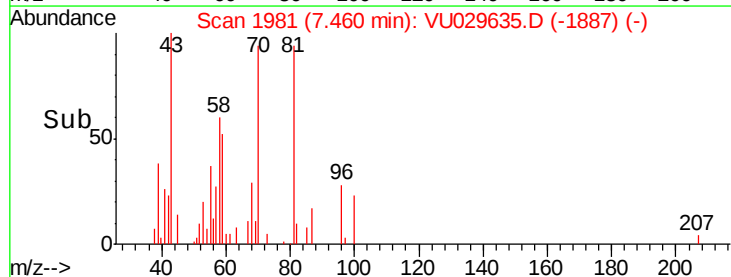
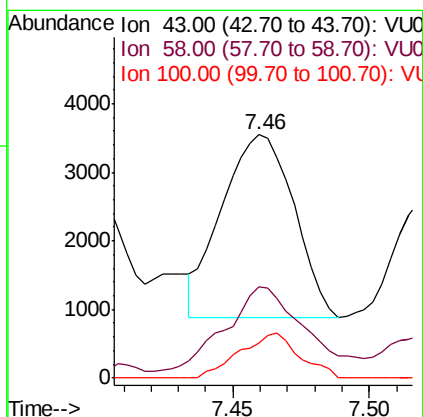
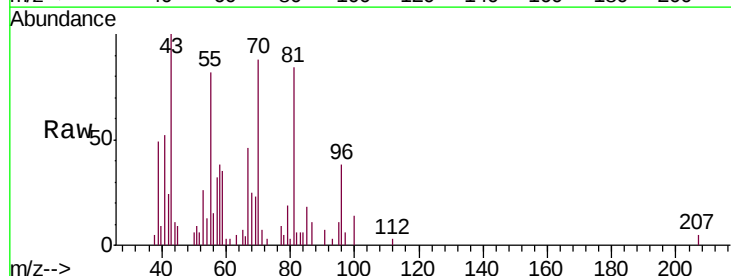
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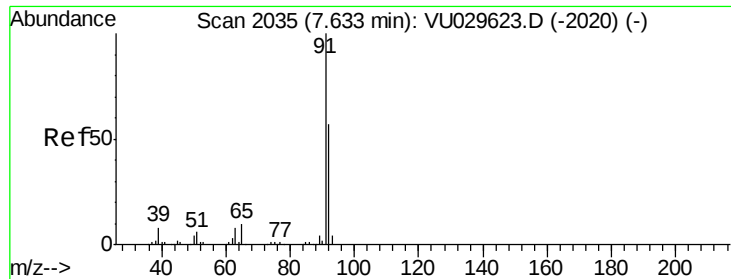
Tgt Ion: 83 Resp: 354265
Ion Ratio Lower Upper
83 100
55 87.8 55.2 82.8#
98 47.6 39.4 59.2



#40
4-Methyl-2-pentanone
Concen: 1.065 ug/L
RT: 7.46 min Scan# 1981
Delta R.T. 0.00 min
Lab File: VU029635.D
Acq: 22 Feb 2019 21:16

Tgt Ion: 43 Resp: 4889
Ion Ratio Lower Upper
43 100
58 50.0 33.0 49.4#
100 20.4 14.5 21.7





#42

Toluene

Concen: 50.369 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU029635.D

Acq: 22 Feb 2019 21:16

Instrument :

MSVOA_U

ClientSampleId :

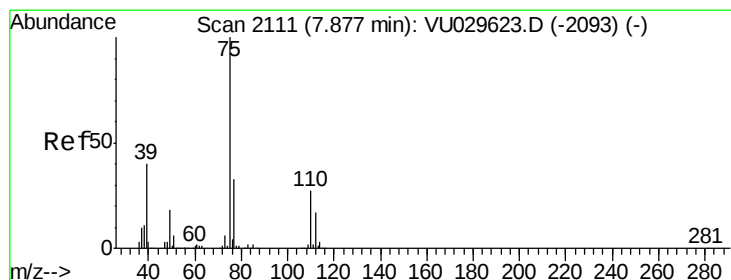
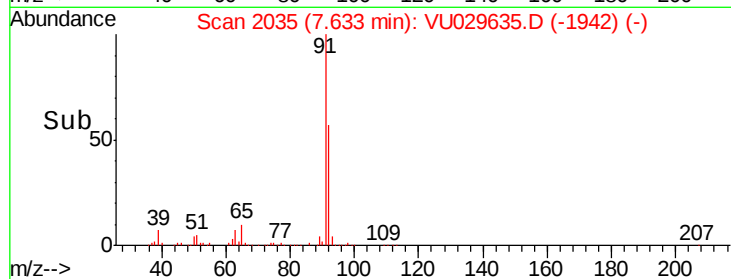
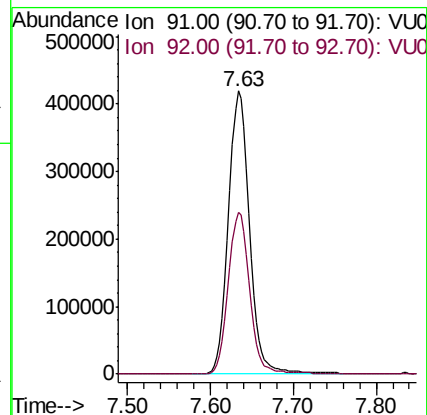
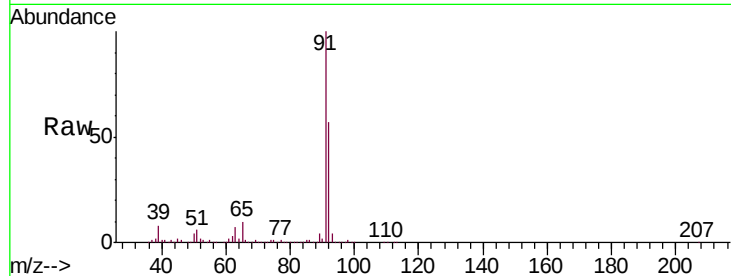
DB629

Tgt Ion: 91 Resp: 740542

Ion Ratio Lower Upper

91 100

92 57.4 40.8 75.8



#44

trans-1,3-Dichloropropene

Concen: 0.698 ug/L

RT: 7.85 min Scan# 2101

Delta R.T. -0.03 min

Lab File: VU029635.D

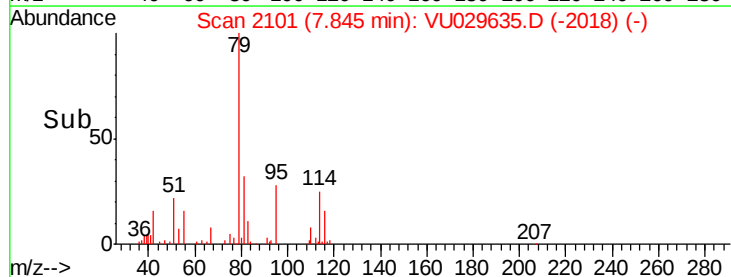
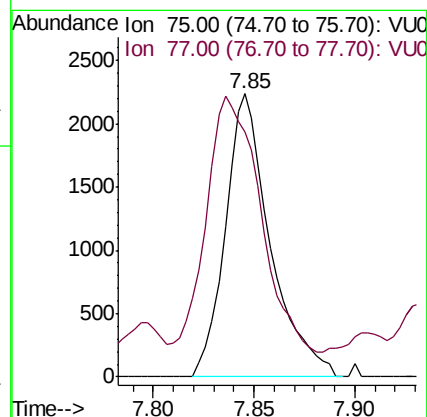
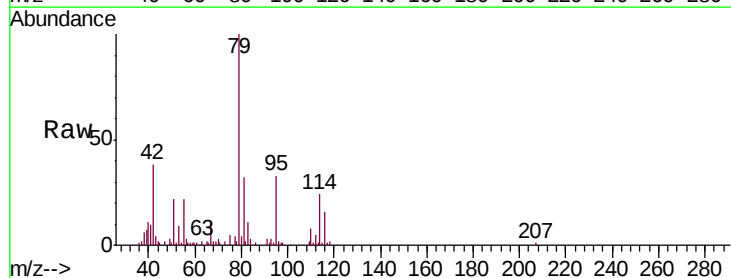
Acq: 22 Feb 2019 21:16

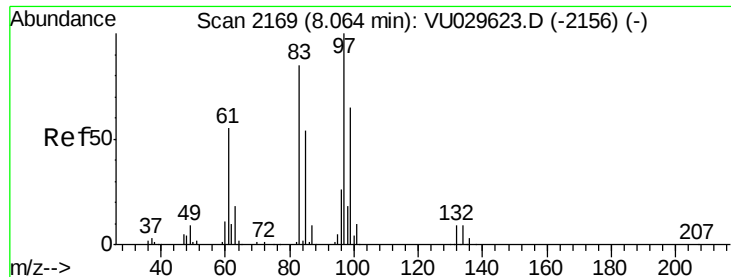
Tgt Ion: 75 Resp: 3465

Ion Ratio Lower Upper

75 100

77 86.6 22.1 41.1#

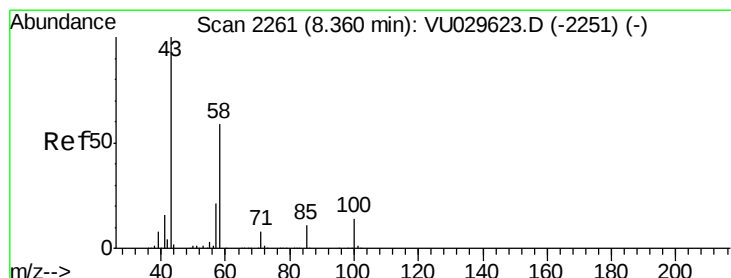
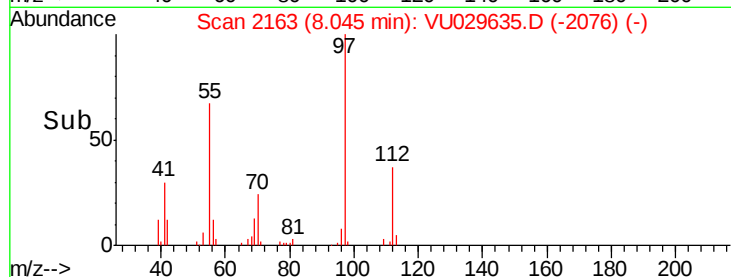
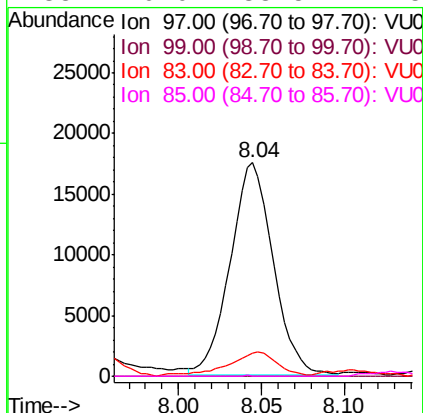
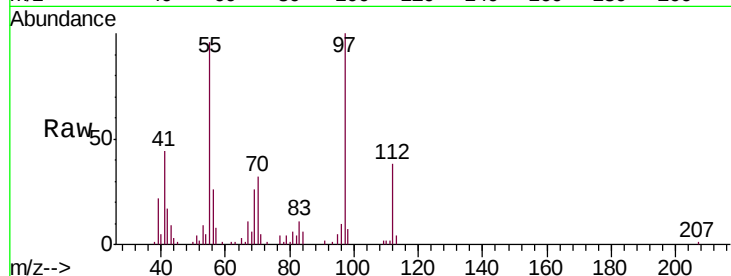




#45
 1,1,2-Trichloroethane
 Concen: 9.093 ug/L
 RT: 8.04 min Scan# 2163
 Delta R.T. -0.02 min
 Lab File: VU029635.D
 Acq: 22 Feb 2019 21:16

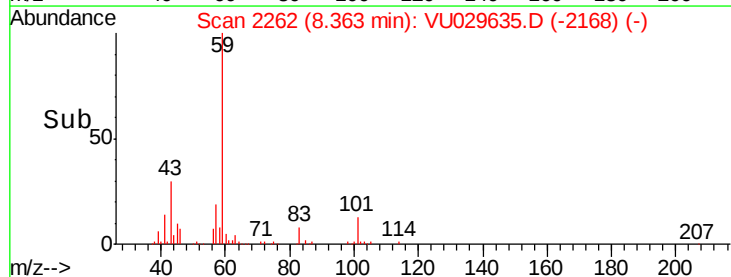
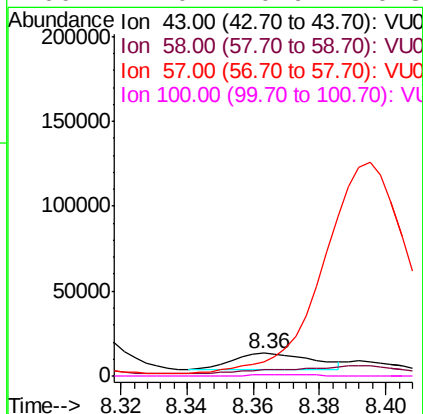
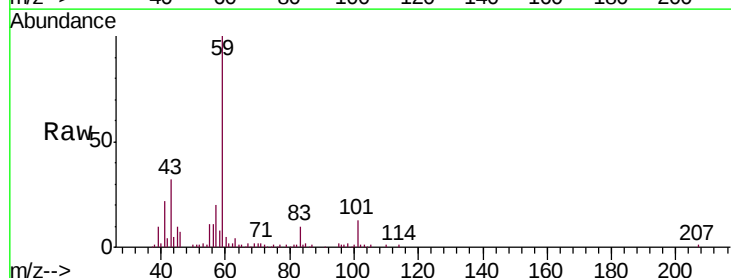
Instrument :
 MSVOA_U
 ClientSampled :
 DB629

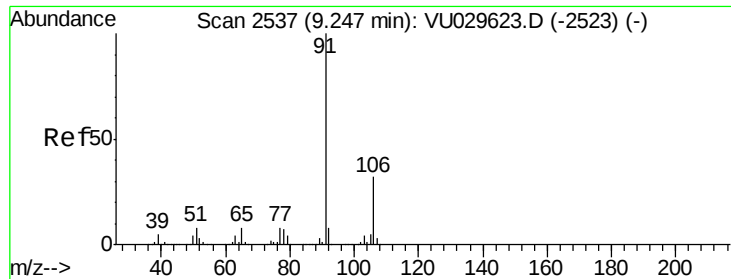
Tgt Ion: 97 Resp: 31631
 Ion Ratio Lower Upper
 97 100
 99 0.0 43.8 81.3#
 83 10.6 57.7 107.1#
 85 0.0 38.5 71.5#



#48
 2-Hexanone
 Concen: 3.940 ug/L
 RT: 8.36 min Scan# 2262
 Delta R.T. 0.00 min
 Lab File: VU029635.D
 Acq: 22 Feb 2019 21:16

Tgt Ion: 43 Resp: 15796
 Ion Ratio Lower Upper
 43 100
 58 102.4 46.4 69.6#
 57 1471.3 15.7 23.5#
 100 4.0 10.9 16.3#





#52

Ethylbenzene

Concen: 59.434 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU029635.D

Acq: 22 Feb 2019 21:16

Instrument :

MSVOA_U

ClientSampleId :

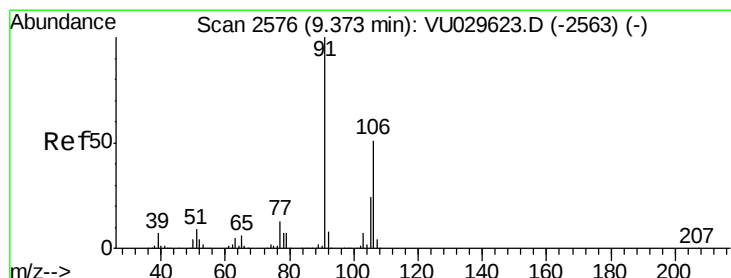
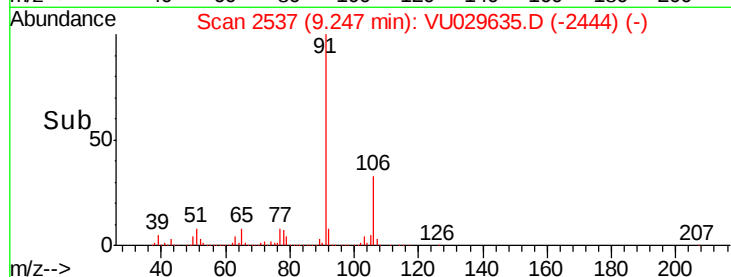
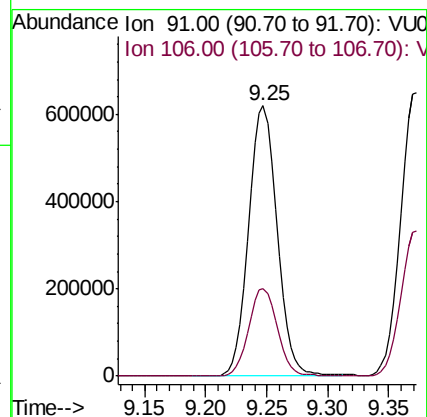
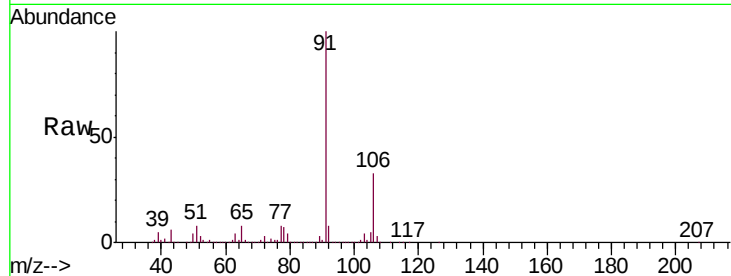
DB629

Tgt Ion: 91 Resp: 992418

Ion Ratio Lower Upper

91 100

106 32.6 22.7 42.1



#53

m,p-Xylene

Concen: 83.033 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU029635.D

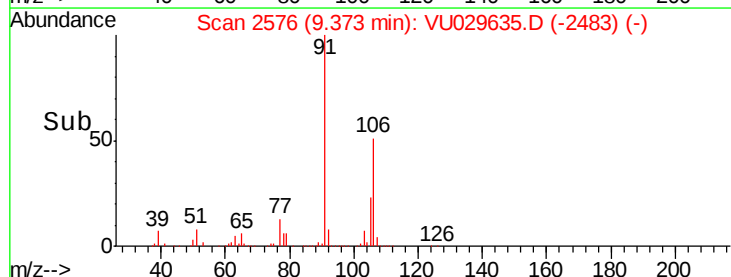
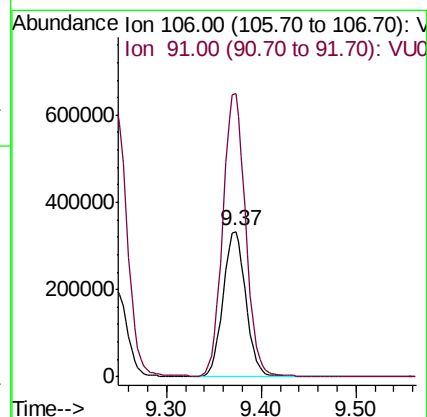
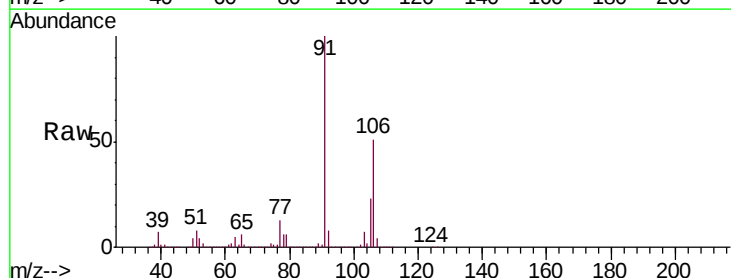
Acq: 22 Feb 2019 21:16

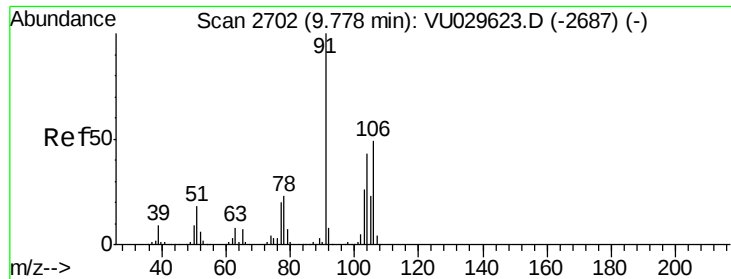
Tgt Ion: 106 Resp: 556556

Ion Ratio Lower Upper

106 100

91 194.5 135.3 251.3





#54

o-xylene

Concen: 3.458 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU029635.D

Acq: 22 Feb 2019 21:16

Instrument :

MSVOA_U

ClientSampleId :

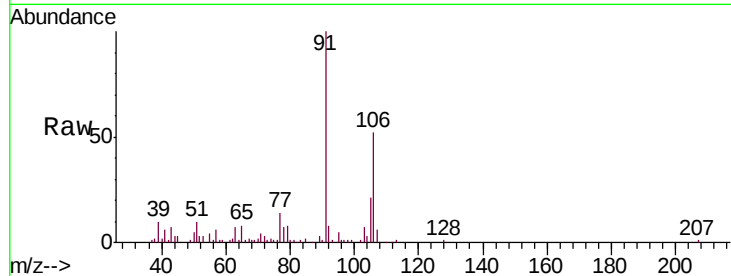
DB629

Tgt Ion:106 Resp: 23283

Ion Ratio Lower Upper

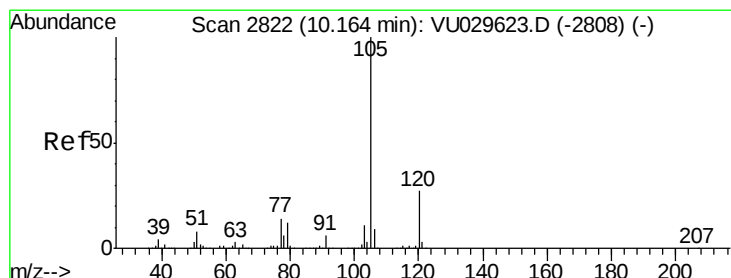
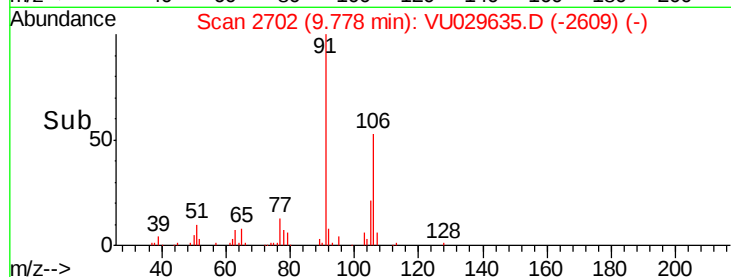
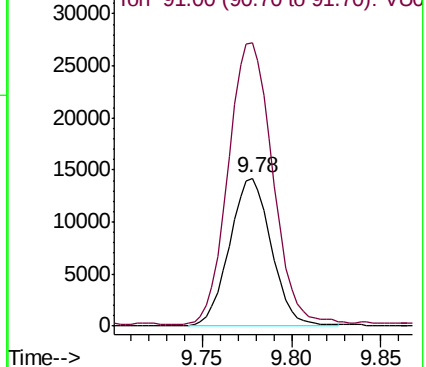
106 100

91 191.5 144.5 268.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#56

Isopropylbenzene

Concen: 17.619 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU029635.D

Acq: 22 Feb 2019 21:16

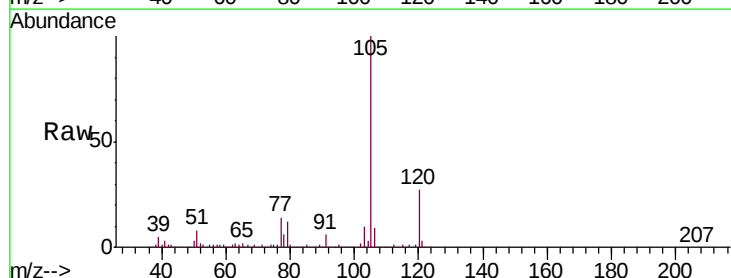
Tgt Ion:105 Resp: 310415

Ion Ratio Lower Upper

105 100

120 26.8 21.9 32.9

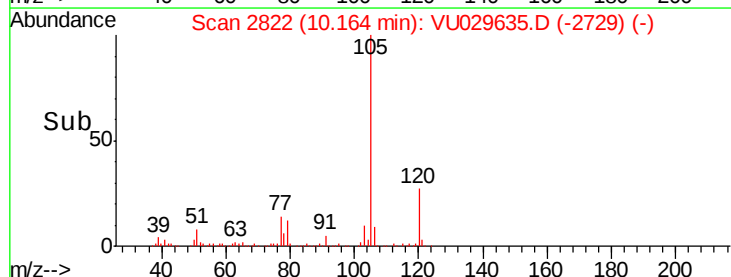
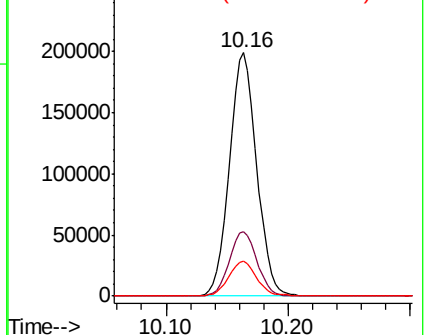
77 14.7 11.7 17.5

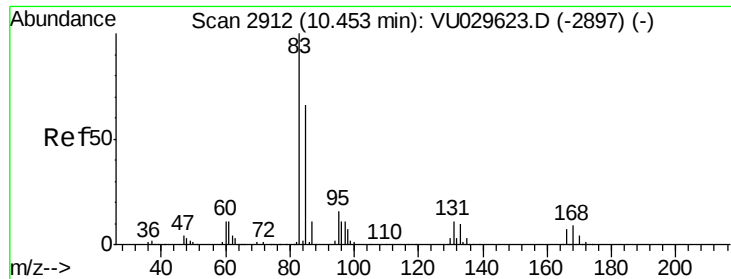


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0





#58

1,1,2,2-Tetrachloroethane

Concen: 1.107 ug/L

RT: 10.41 min Scan# 2898

Delta R.T. -0.04 min

Lab File: VU029635.D

Acq: 22 Feb 2019 21:16

Instrument :

MSVOA_U

ClientSampleId :

DB629

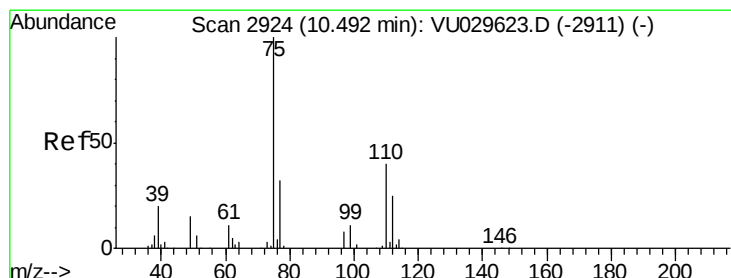
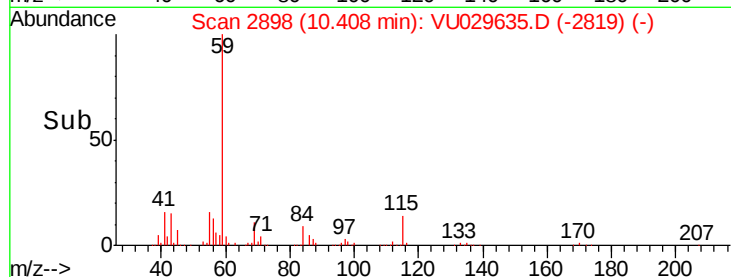
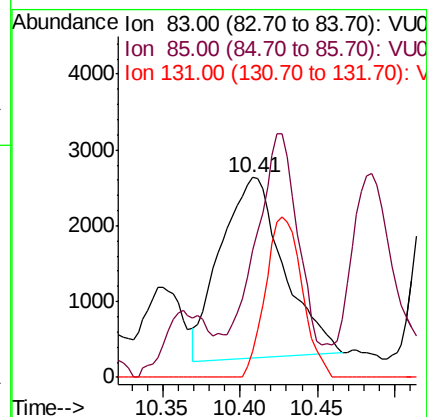
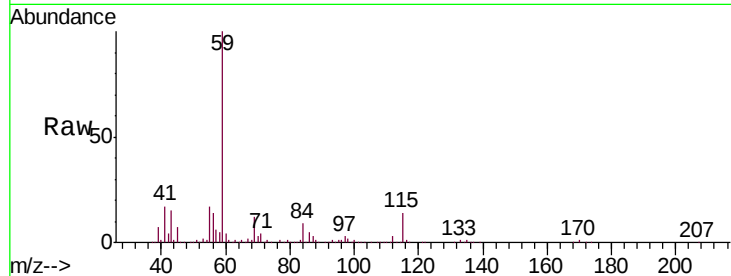
Tgt Ion: 83 Resp: 6810

Ion Ratio Lower Upper

83 100

85 63.4 45.5 84.5

131 13.1 8.6 12.8#



#59

1,2,3-Trichloropropane

Concen: 5.718 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU029635.D

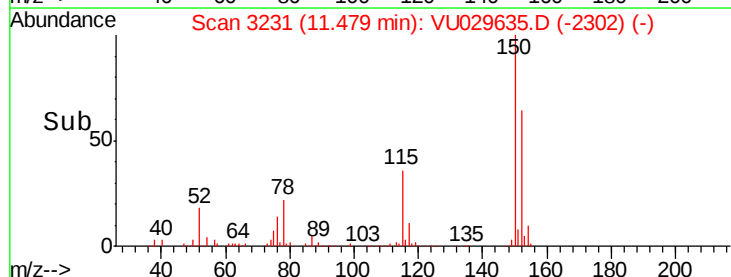
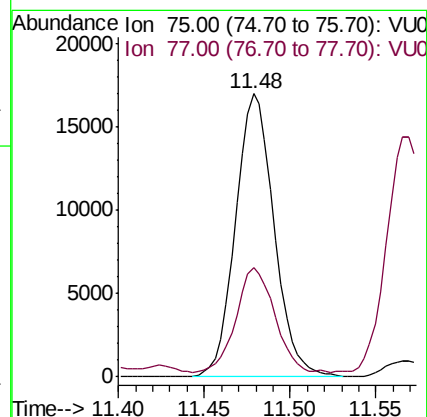
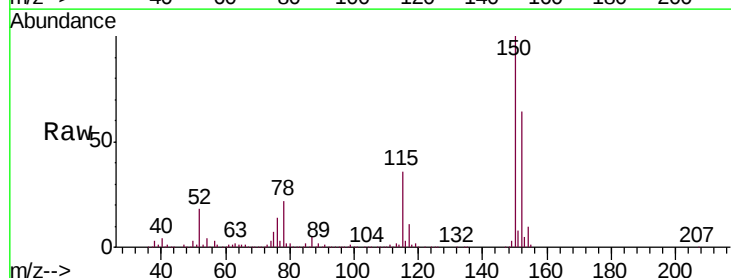
Acq: 22 Feb 2019 21:16

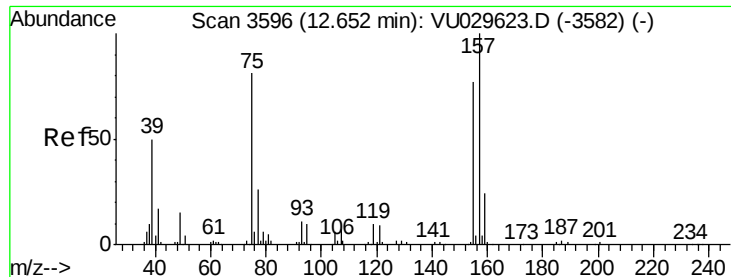
Tgt Ion: 75 Resp: 26608

Ion Ratio Lower Upper

75 100

77 36.5 25.7 38.5

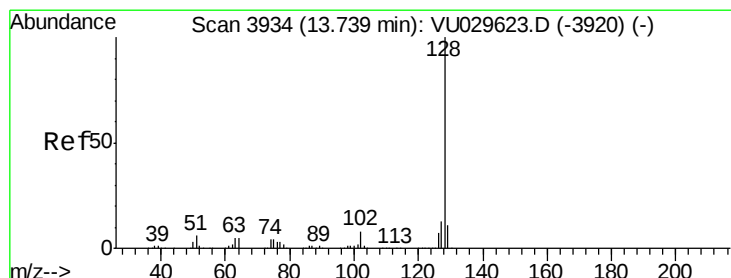
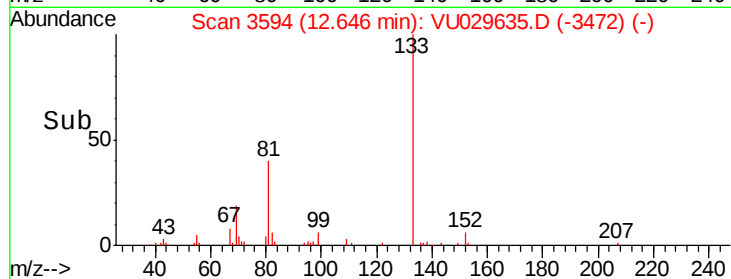
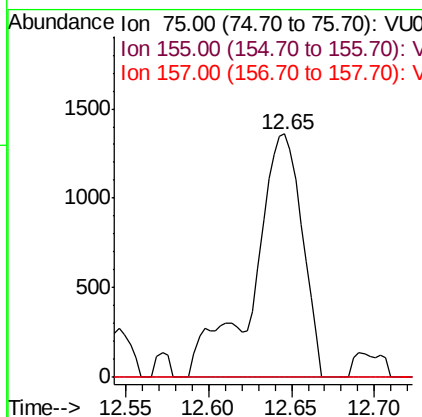
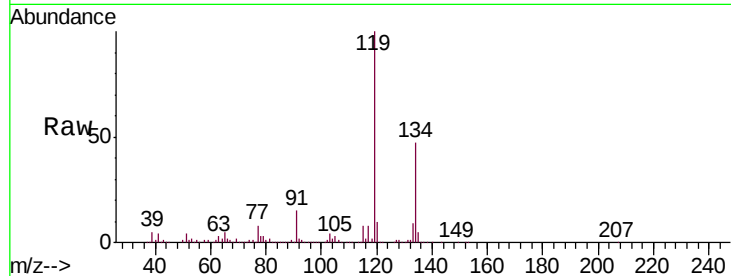




#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.030 ug/L
 RT: 12.65 min Scan# 3594
 Delta R.T. -0.01 min
 Lab File: VU029635.D
 Acq: 22 Feb 2019 21:16

Instrument :
 MSVOA_U
 ClientSampleId :
 DB629

Tgt Ion: 75 Resp: 2765
 Ion Ratio Lower Upper
 75 100
 155 0.0 79.5 119.3#
 157 0.0 103.4 155.0#



#69
 Naphthalene
 Concen: 5.811 ug/L
 RT: 13.74 min Scan# 3934
 Delta R.T. 0.00 min
 Lab File: VU029635.D
 Acq: 22 Feb 2019 21:16

Tgt Ion: 128 Resp: 98858
 Ion Ratio Lower Upper
 128 100
 127 12.4 10.2 15.4
 129 12.1 8.5 12.7

