

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040519\
 Data File : VU030702.D
 Acq On : 04 Apr 2019 22:51
 Operator : JC/SP
 Sample : K2168-19RE
 Misc : 5.84g/5mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BF641

Quant Time: Apr 05 02:22:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Apr 05 02:15:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	471337	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	461714	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	232081	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	173198	41.16	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.32%
7) Chloroethane-d5	1.64	69	118498	37.11	ug/L	-0.04
Spiked Amount	50.000	Range	70 - 130	Recovery	=	74.22%
11) 1,1-Dichloroethene-d2	2.23	63	251885	33.10	ug/L	-0.04
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.20%
21) 2-Butanone-d5	4.19	46	310323	93.06	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	93.06%
24) Chloroform-d	4.64	84	280556	43.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.30%
26) 1,2-Dichloroethane-d4	5.30	65	194767	44.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.82%
32) Benzene-d6	5.33	84	603561	44.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.56%
36) 1,2-Dichloropropane-d6	6.32	67	209432	45.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.68%
41) Toluene-d8	7.56	98	544518	45.58	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.16%
43) trans-1,3-Dichloropropene-	7.85	79	100691	47.80	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.60%
47) 2-Hexanone-d5	8.32	63	227015	107.53	ug/L	0.02
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.53%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	310988	49.91	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.82%
64) 1,2-Dichlorobenzene-d4	11.86	152	210947	46.22	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.44%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
6) Bromomethane	1.60	94	1499	0.558	ug/L	99
13) Acetone	2.34	43	6135	1.798	ug/L	98
16) Methylene chloride	2.69	84	2768	0.699	ug/L #	1
25) Chloroform	4.71	83	95017	13.242	ug/L #	36
29) Cyclohexane	4.97	56	316487	48.093	ug/L #	64
34) Trichloroethene	6.22	95	8744	2.360	ug/L #	21
35) Methylcyclohexane	6.40	83	1409932	246.531	ug/L	96
38) Bromodichloromethane	6.70	83	13025	2.524	ug/L #	6
40) 4-Methyl-2-pentanone	7.51	43	117719	17.110	ug/L #	60
42) Toluene	7.64	91	7846	0.509	ug/L	92
45) 1,1,2-Trichloroethane	8.04	97	191405	52.751	ug/L #	18
48) 2-Hexanone	8.32	43	497026	92.596	ug/L #	27
52) Ethylbenzene	9.25	91	23241	1.382	ug/L	96
53) m,p-Xylene	9.38	106	7409	1.264	ug/L #	55
56) Isopropylbenzene	10.16	105	550062	35.822	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.49	83	53924	8.216	ug/L #	36
66) 1,2-Dibromo-3-chloropropan	12.65	75	8540	5.460	ug/L #	12

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Quant Title : VOC Analysis
QLast Update : Fri Apr 05 02:15:56 2019
Response via : Initial Calibration

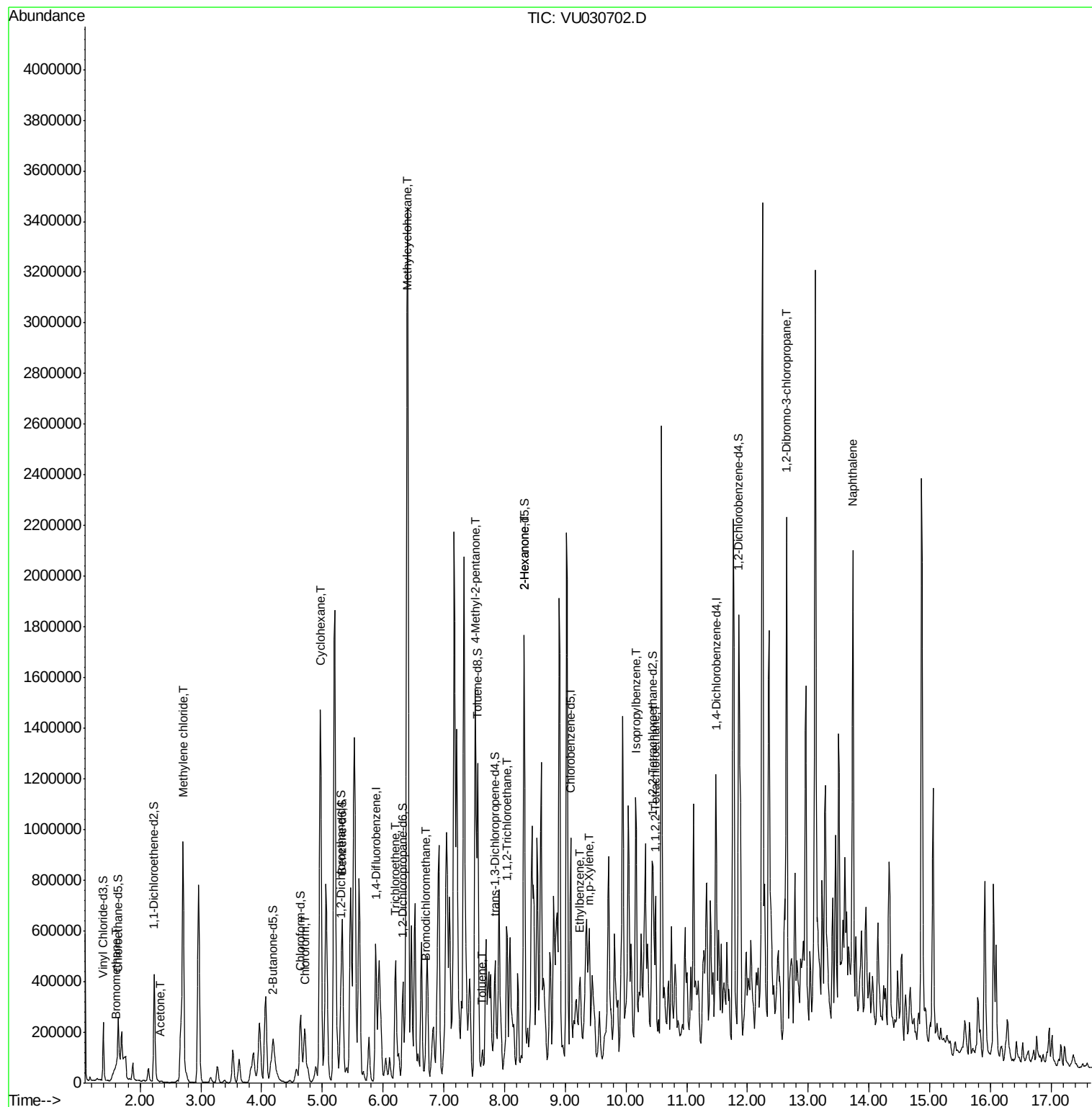
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
69) Naphthalene	13.74	128	1246477	84.364	ug/L	99
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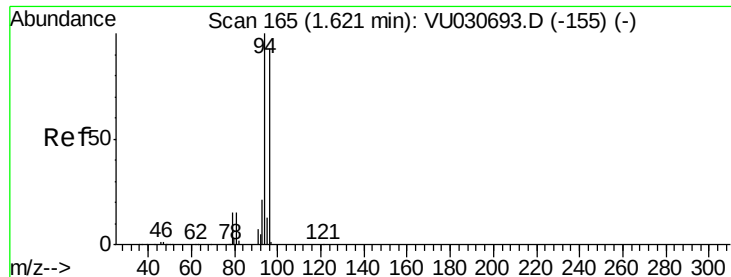
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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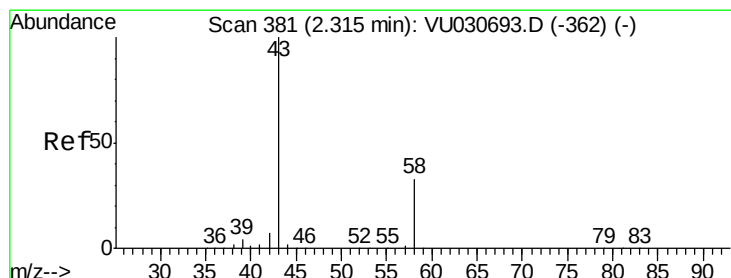
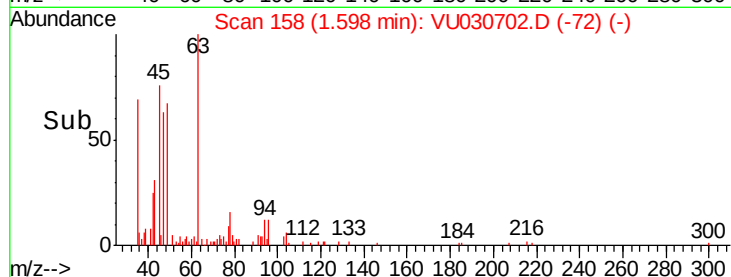
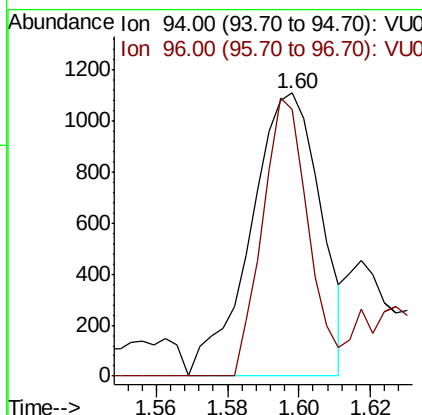
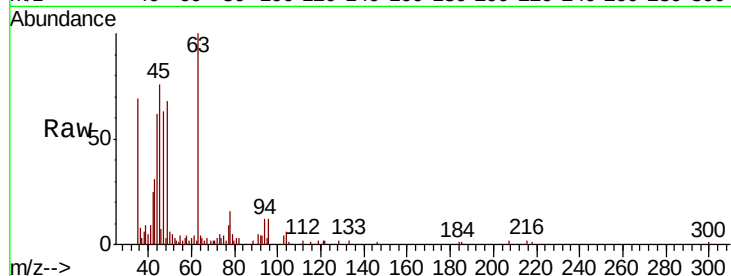




#6
Bromomethane
Concen: 0.558 ug/L
RT: 1.60 min Scan# 158
Delta R.T. -0.02 min
Lab File: VU030702.D
Acq: 04 Apr 2019 22:51

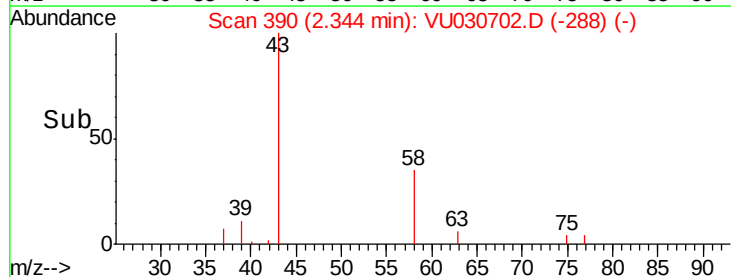
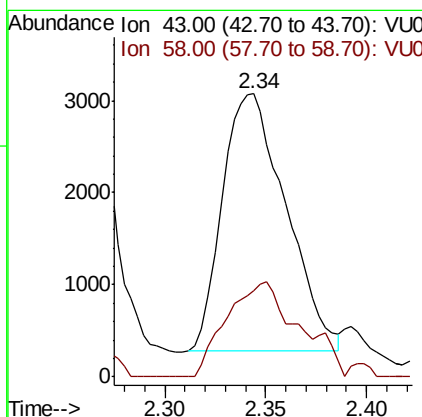
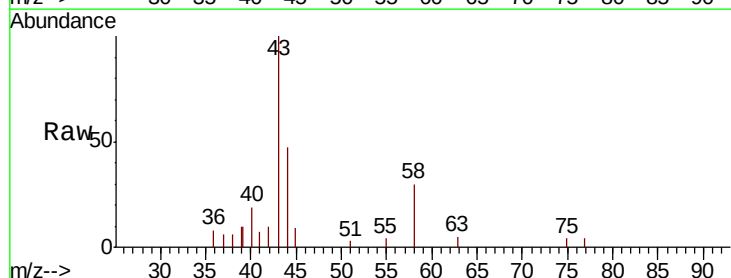
Instrument :
MSVOA_U
ClientSampled :
BF641

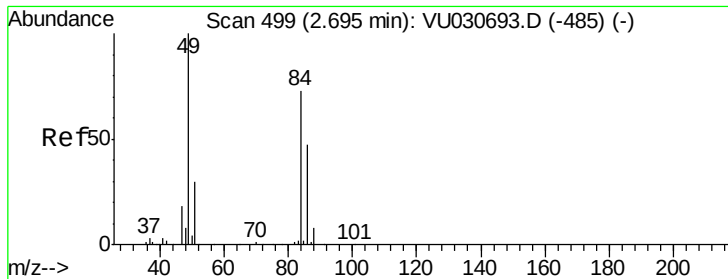
Tot Ion: 94 Resp: 1499
Ion Ratio Lower Upper
94 100
96 94.4 65.5 121.7



#13
Acetone
Concen: 1.798 ug/L
RT: 2.34 min Scan# 390
Delta R.T. 0.03 min
Lab File: VU030702.D
Acq: 04 Apr 2019 22:51

Tgt Ion: 43 Resp: 6135
Ion Ratio Lower Upper
43 100
58 32.9 0.0 64.0

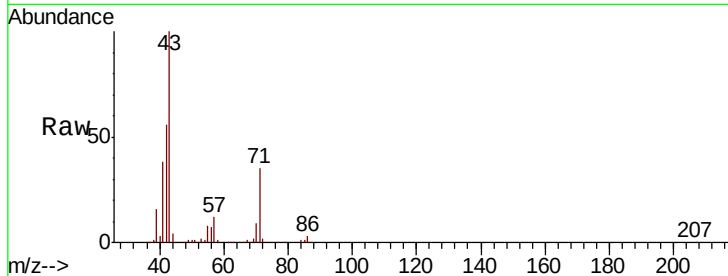




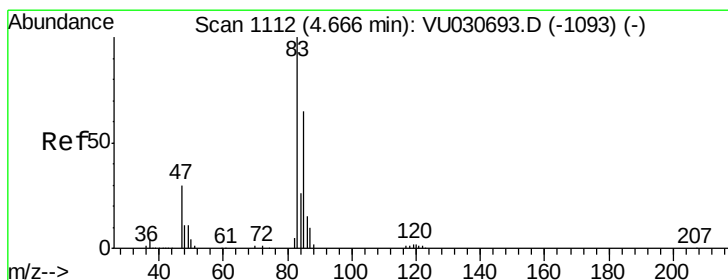
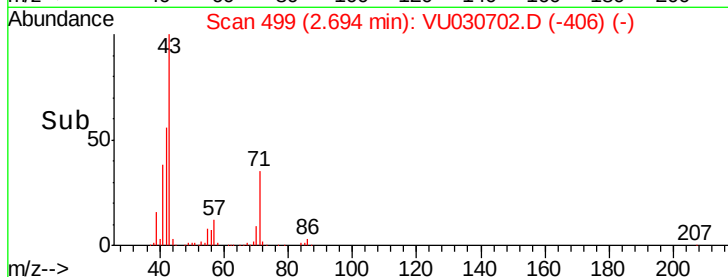
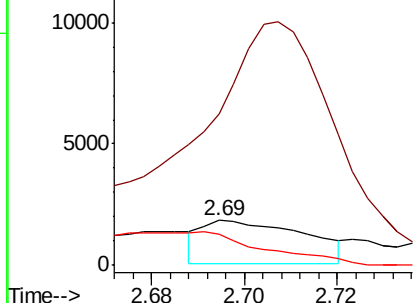
#16
Methylene chloride
Concen: 0.699 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU030702.D
Acq: 04 Apr 2019 22:51

Instrument :
MSVOA_U
ClientSampled :
BF641

Tot Ion: 84 Resp: 2768
Ion Ratio Lower Upper
84 100
86 337.5 45.1 83.7#
49 68.7 96.5 179.1#

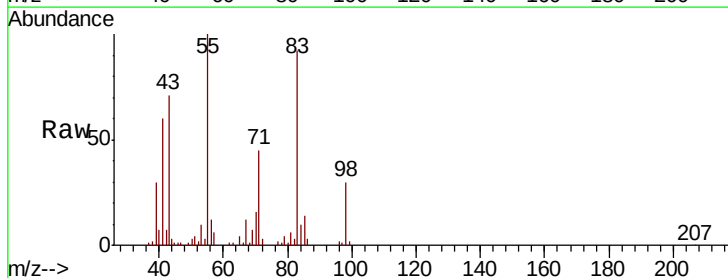


Abundance Ion 84.00 (83.70 to 84.70): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.00 (48.70 to 49.70): VU0

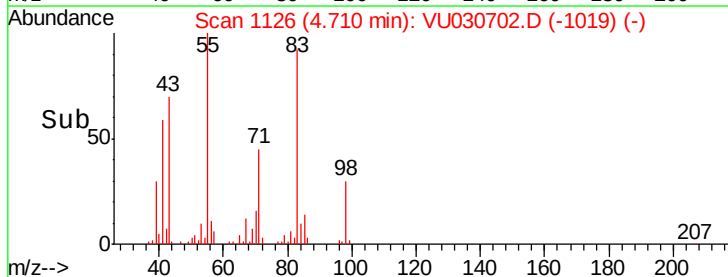
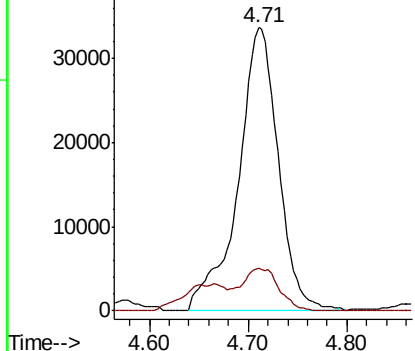


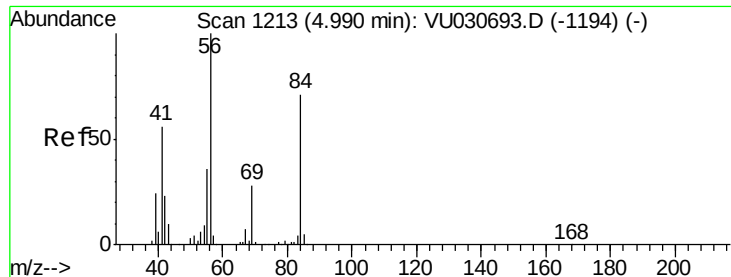
#25
Chloroform
Concen: 13.242 ug/L
RT: 4.71 min Scan# 1126
Delta R.T. 0.04 min
Lab File: VU030702.D
Acq: 04 Apr 2019 22:51

Tgt Ion: 83 Resp: 95017
Ion Ratio Lower Upper
83 100
85 15.0 45.8 85.0#



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

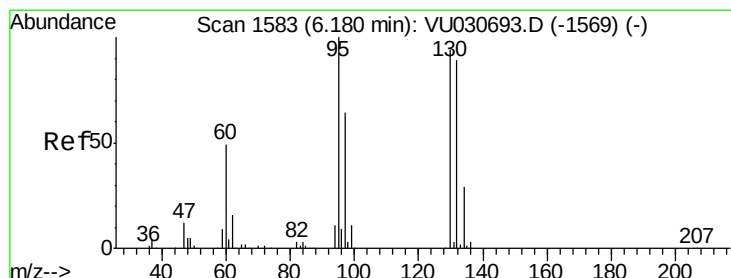
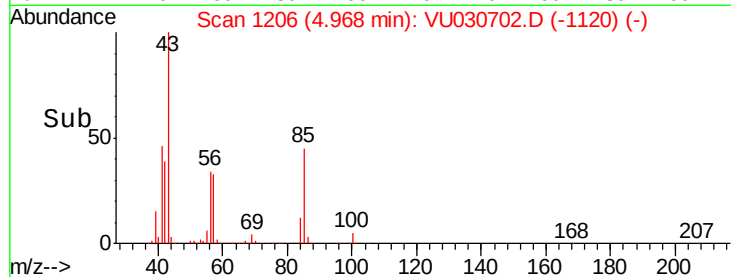
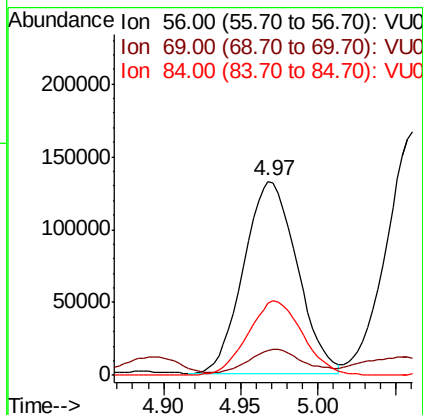
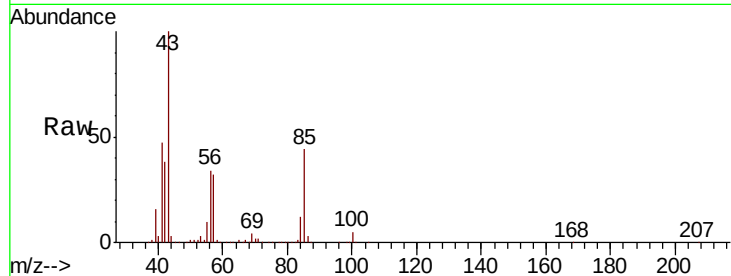




#29
Cyclohexane
Concen: 48.093 ug/L
RT: 4.97 min Scan# 1206
Delta R.T. -0.02 min
Lab File: VU030702.D
Acq: 04 Apr 2019 22:51

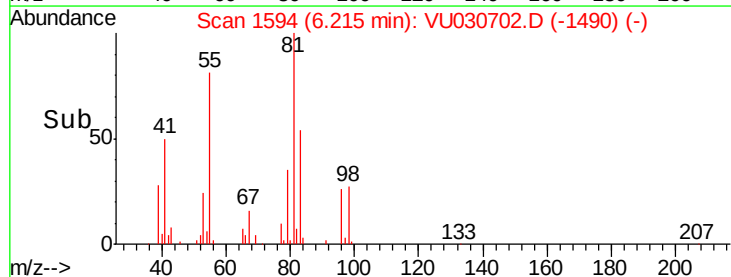
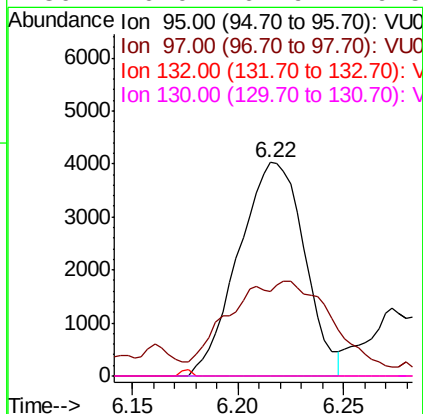
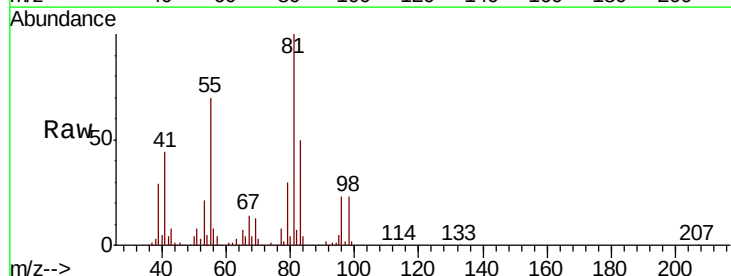
Instrument :
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ClientSampled :
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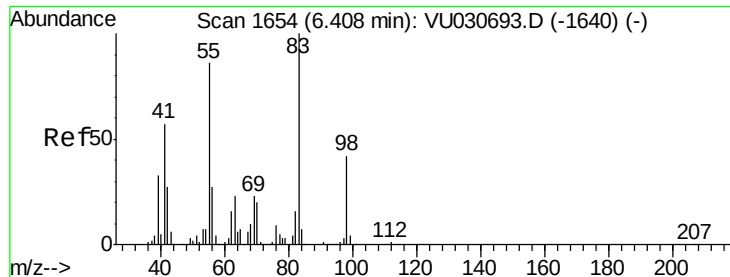
Tot Ion: 56 Resp: 316487
Ion Ratio Lower Upper
56 100
69 13.5 22.0 33.0#
84 39.6 58.2 87.2#



#34
Trichloroethene
Concen: 2.360 ug/L
RT: 6.22 min Scan# 1594
Delta R.T. 0.04 min
Lab File: VU030702.D
Acq: 04 Apr 2019 22:51

Tgt Ion: 95 Resp: 8744
Ion Ratio Lower Upper
95 100
97 39.8 44.5 82.7#
132 0.0 61.5 114.1#
130 0.0 64.9 120.5#

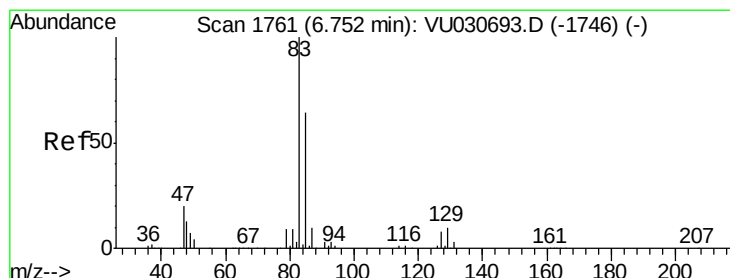
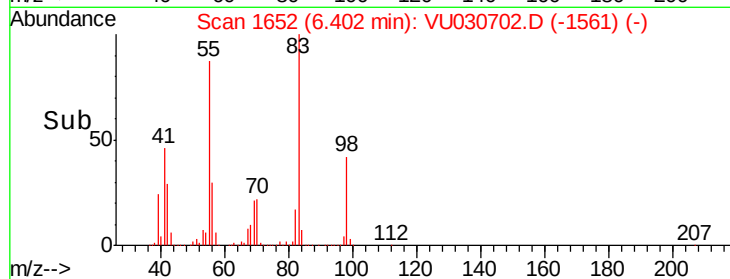
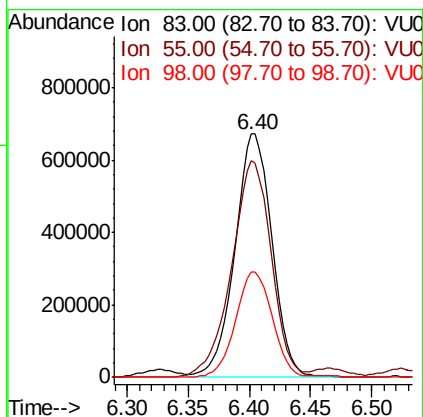
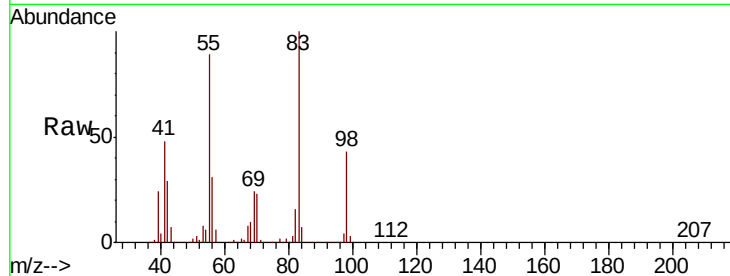




#35
Methylcyclohexane
Concen: 246.531 ug/L
RT: 6.40 min Scan# 1652
Delta R.T. -0.01 min
Lab File: VU030702.D
Acq: 04 Apr 2019 22:51

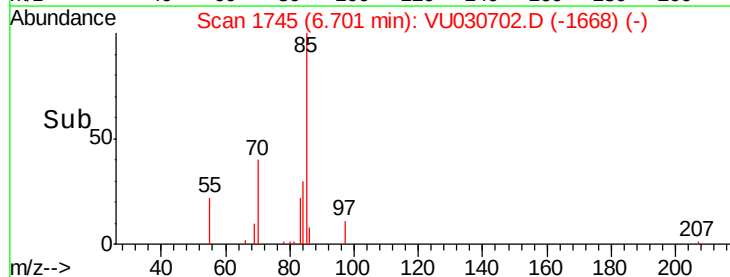
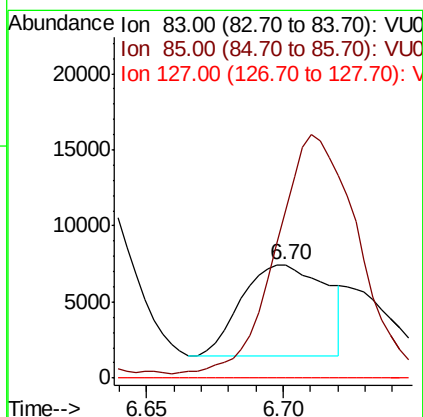
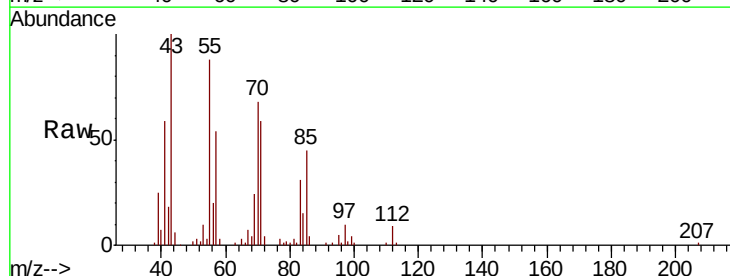
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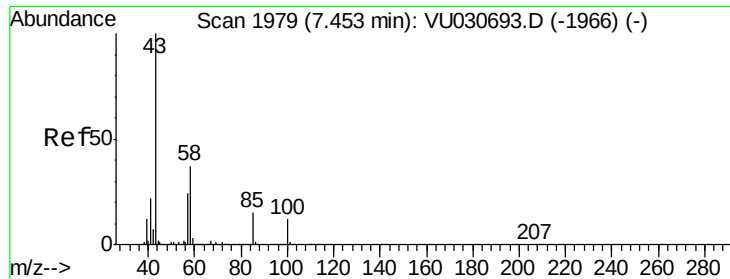
Tot Ion: 83 Resp: 1409932
Ion Ratio Lower Upper
83 100
55 94.8 71.6 107.4
98 42.8 35.4 53.0



#38
Bromodichloromethane
Concen: 2.524 ug/L
RT: 6.70 min Scan# 1745
Delta R.T. -0.05 min
Lab File: VU030702.D
Acq: 04 Apr 2019 22:51

Tgt Ion: 83 Resp: 13025
Ion Ratio Lower Upper
83 100
85 148.0 46.5 86.3#
127 0.0 6.6 10.0#

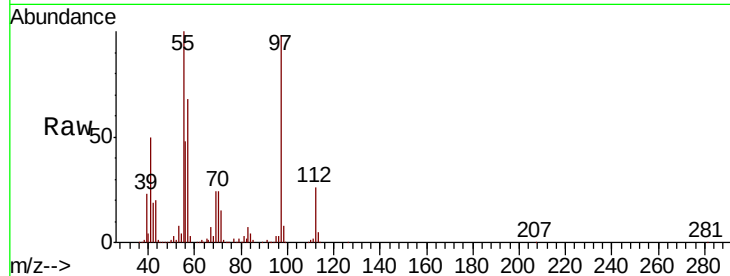




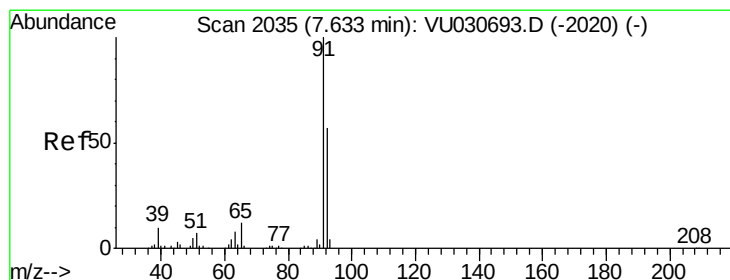
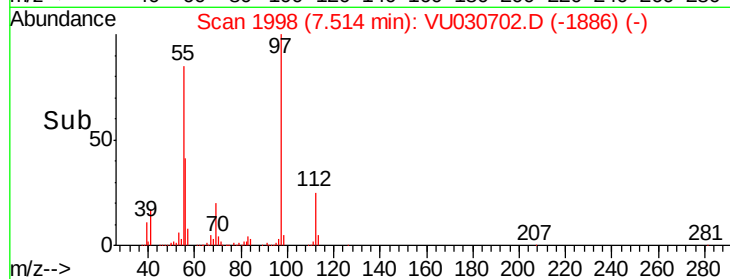
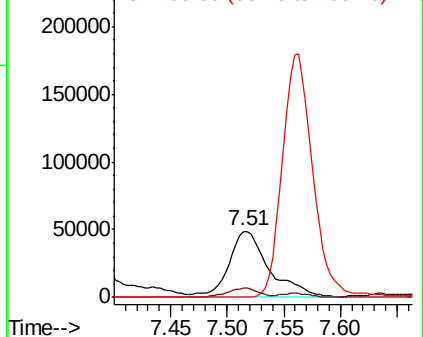
#40
4-Methyl-2-pentanone
Concen: 17.110 ug/L
RT: 7.51 min Scan# 1998
Delta R.T. 0.06 min
Lab File: VU030702.D
Acq: 04 Apr 2019 22:51

Instrument :
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Tot Ion: 43 Resp: 117719
Ion Ratio Lower Upper
43 100
58 11.3 29.7 44.5#
100 0.0 9.8 14.6#

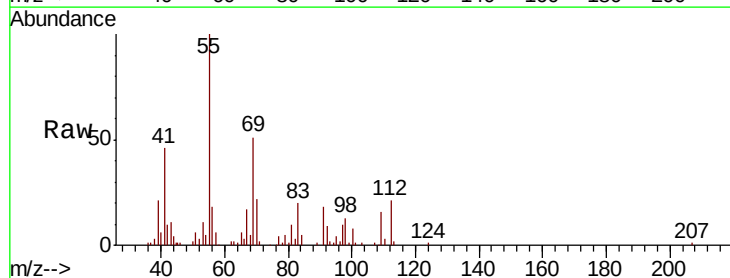


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

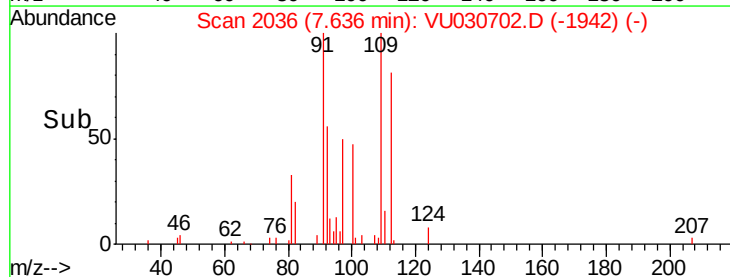
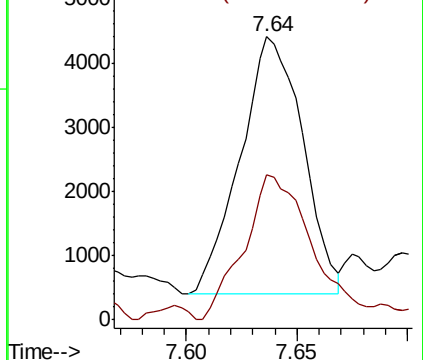


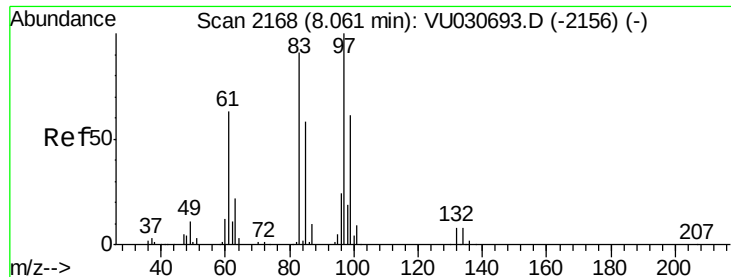
#42
Toluene
Concen: 0.509 ug/L
RT: 7.64 min Scan# 2036
Delta R.T. 0.00 min
Lab File: VU030702.D
Acq: 04 Apr 2019 22:51

Tgt Ion: 91 Resp: 7846
Ion Ratio Lower Upper
91 100
92 51.2 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 92.00 (91.70 to 92.70): VU0





#45

1,1,2-Trichloroethane

Concen: 52.751 ug/L

RT: 8.04 min Scan# 2162

Delta R.T. -0.02 min

Lab File: VU030702.D

Acq: 04 Apr 2019 22:51

Instrument :

MSVOA_U

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Tot Ion: 97 Resp: 191405

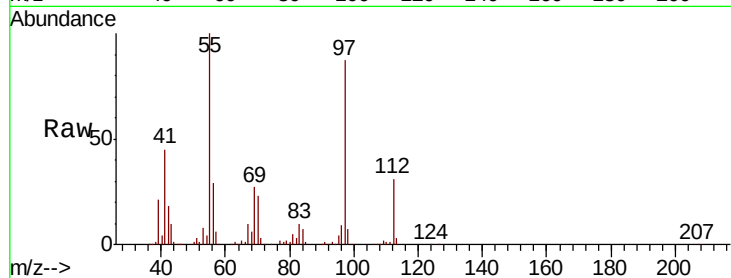
Ion Ratio Lower Upper

97 100

99 0.3 44.0 81.8#

83 11.2 65.3 121.3#

85 0.6 42.5 78.9#

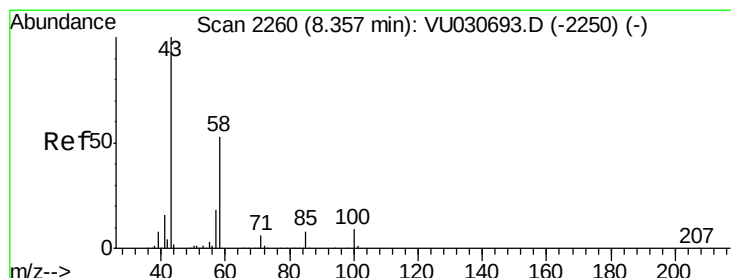
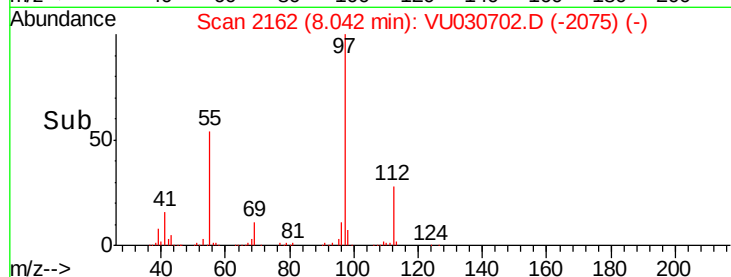
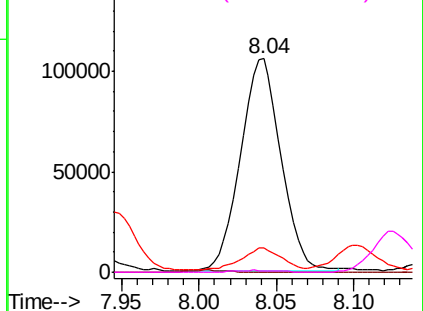


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#48

2-Hexanone

Concen: 92.596 ug/L

RT: 8.32 min Scan# 2249

Delta R.T. -0.04 min

Lab File: VU030702.D

Acq: 04 Apr 2019 22:51

Tgt Ion: 43 Resp: 497026

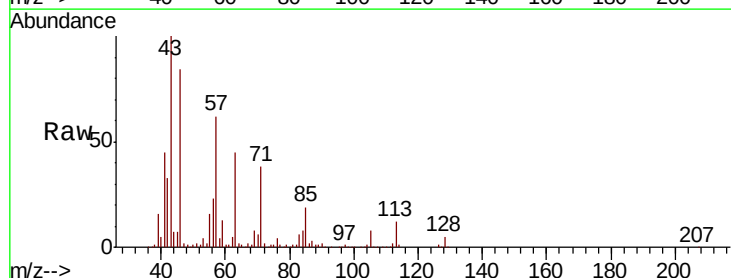
Ion Ratio Lower Upper

43 100

58 4.0 41.9 62.9#

57 66.6 14.3 21.5#

100 0.1 7.1 10.7#

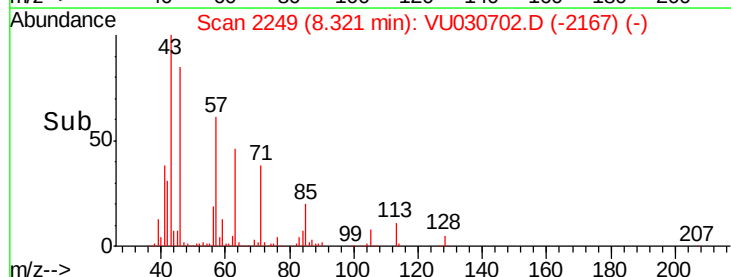
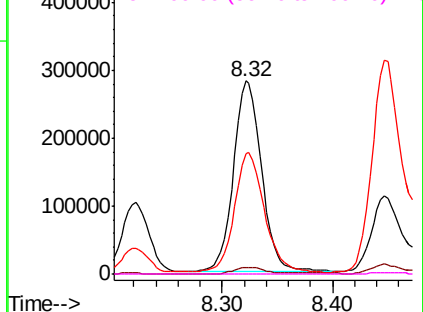


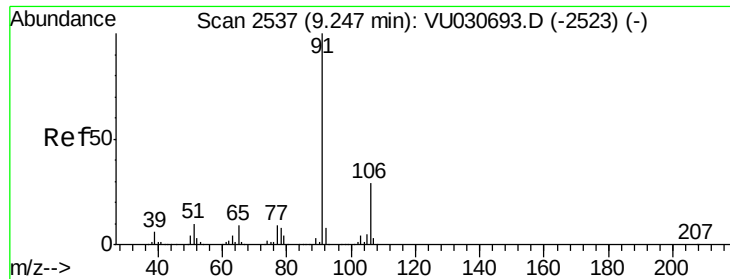
Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 1.382 ug/L

RT: 9.25 min Scan# 2539

Delta R.T. 0.01 min

Lab File: VU030702.D

Acq: 04 Apr 2019 22:51

Instrument :

MSVOA_U

ClientSampleId :

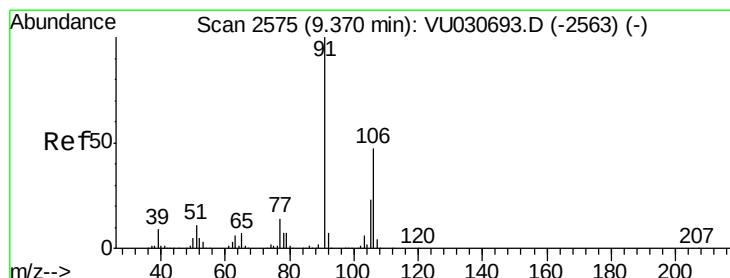
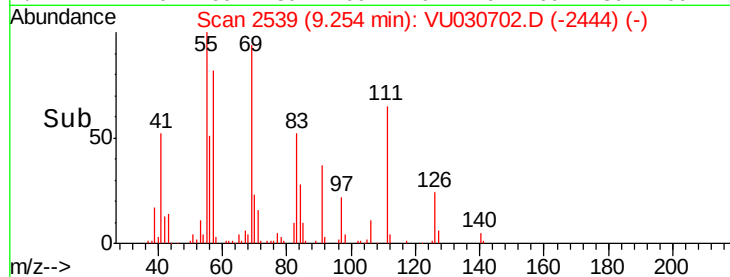
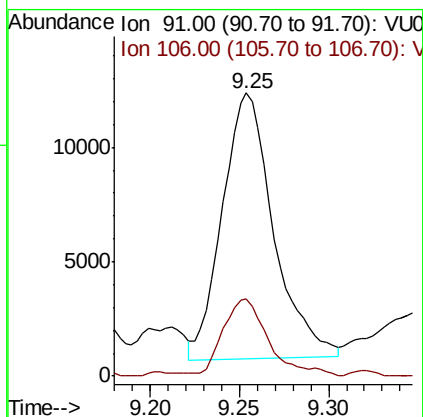
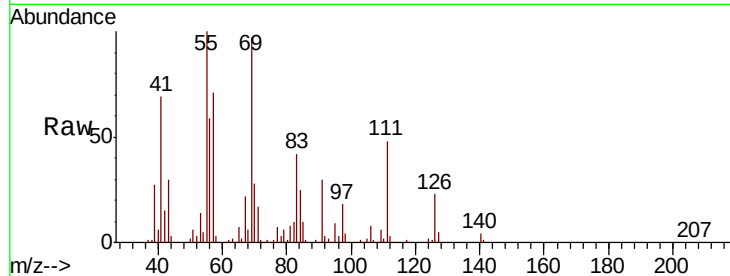
BF641

Tot Ion: 91 Resp: 23241

Ion Ratio Lower Upper

91 100

106 27.1 20.4 37.8



#53

m,p-Xylene

Concen: 1.264 ug/L

RT: 9.38 min Scan# 2577

Delta R.T. 0.01 min

Lab File: VU030702.D

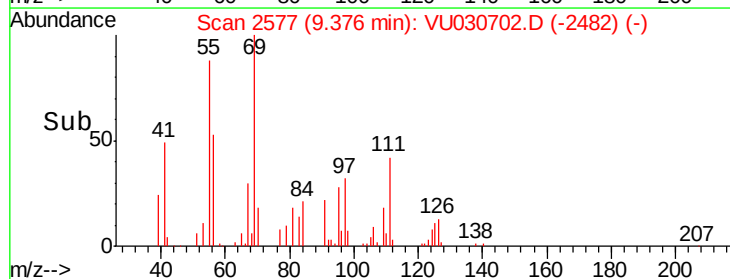
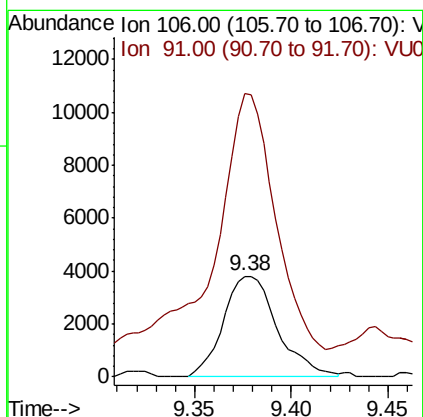
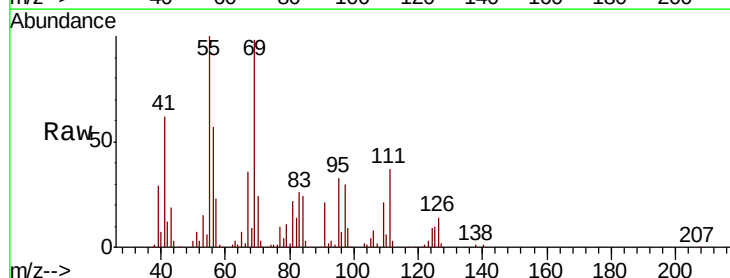
Acq: 04 Apr 2019 22:51

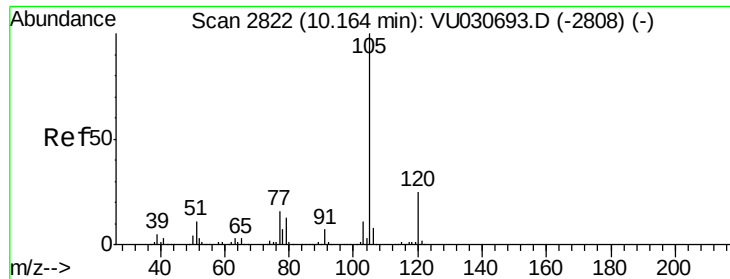
Tgt Ion: 106 Resp: 7409

Ion Ratio Lower Upper

106 100

91 282.1 148.0 274.8#





#56

Isopropylbenzene

Concen: 35.822 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030702.D

Acq: 04 Apr 2019 22:51

Instrument :

MSVOA_U

ClientSampled :

BF641

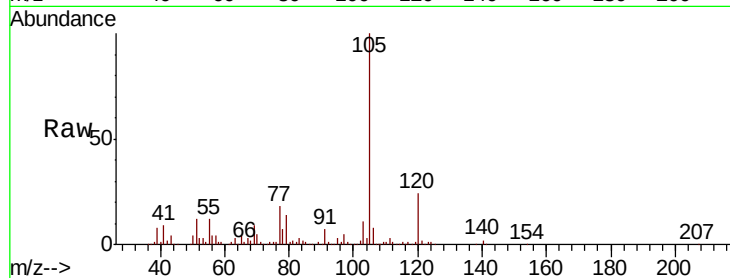
Tot Ion:105 Resp: 550062

Ion Ratio Lower Upper

105 100

120 24.9 20.4 30.6

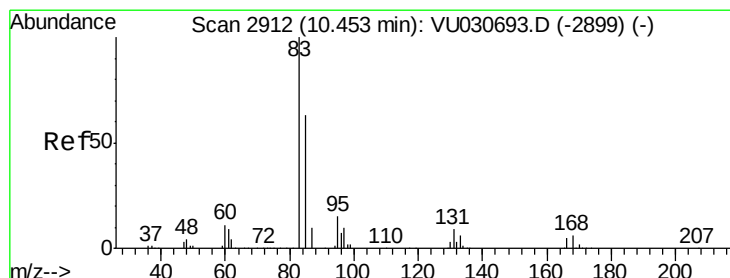
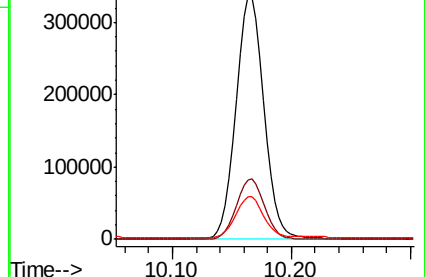
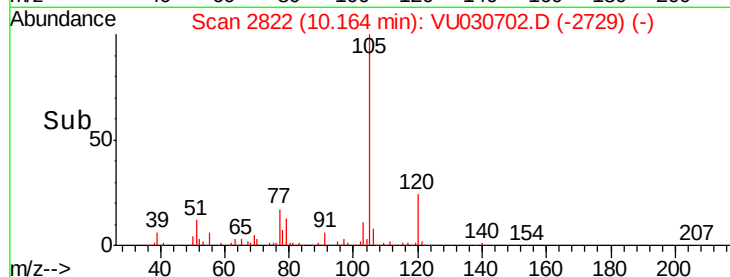
77 17.3 13.4 20.2



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 8.216 ug/L

RT: 10.49 min Scan# 2922

Delta R.T. 0.03 min

Lab File: VU030702.D

Acq: 04 Apr 2019 22:51

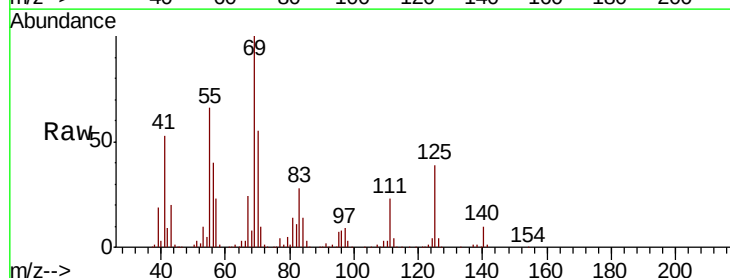
Tgt Ion: 83 Resp: 53924

Ion Ratio Lower Upper

83 100

85 10.6 45.3 84.1#

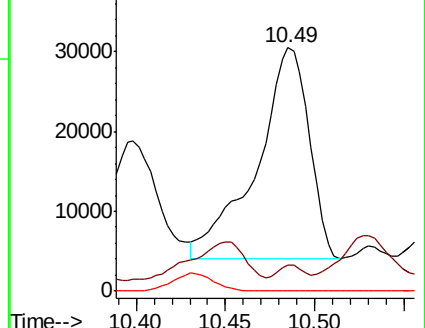
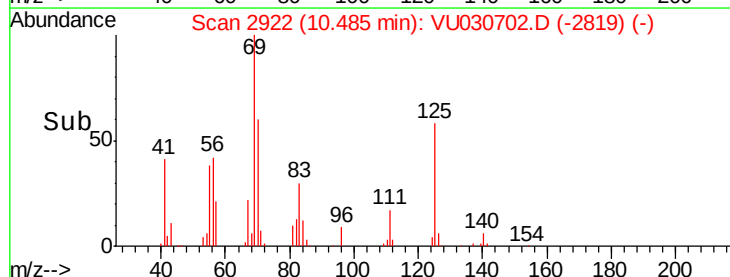
131 0.0 6.7 10.1#

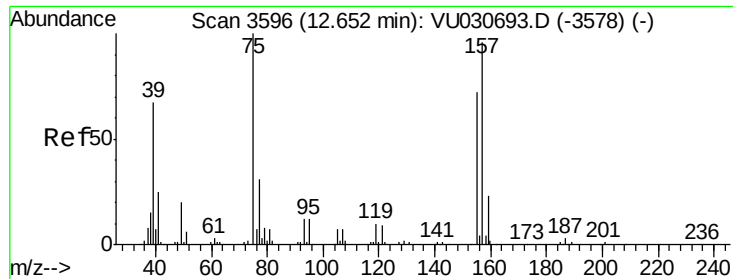


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

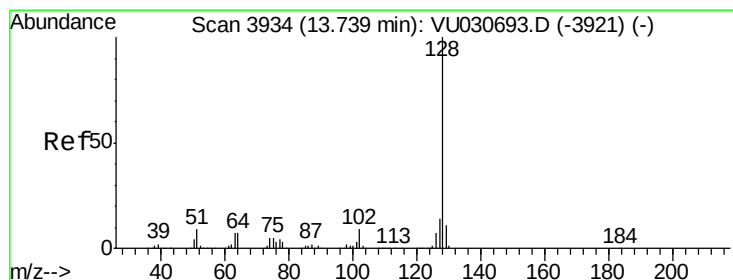
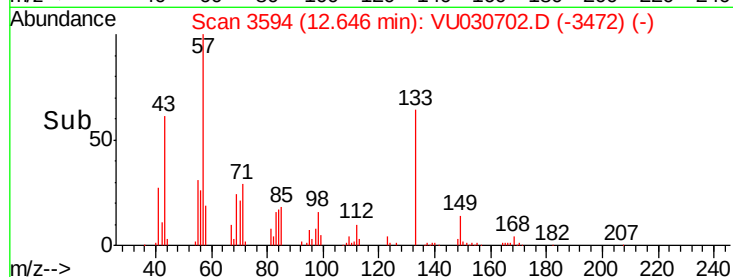
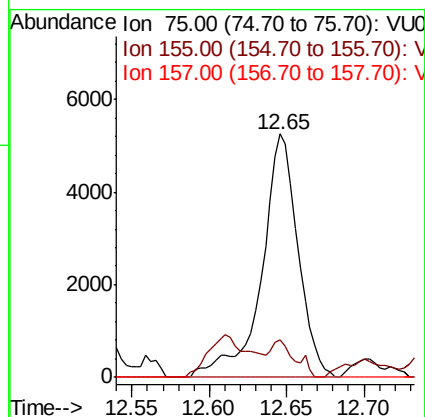
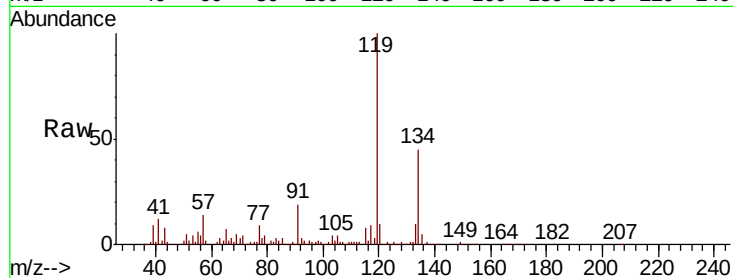




#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.460 ug/L
 RT: 12.65 min Scan# 3594
 Delta R.T. -0.01 min
 Lab File: VU030702.D
 Acq: 04 Apr 2019 22:51

Instrument :
 MSVOA_U
 ClientSampleId :
 BF641

Tot Ion: 75 Resp: 8540
 Ion Ratio Lower Upper
 75 100
 155 15.7 64.1 96.1#
 157 0.0 80.6 120.8#



#69
 Naphthalene
 Concen: 84.364 ug/L
 RT: 13.74 min Scan# 3934
 Delta R.T. -0.00 min
 Lab File: VU030702.D
 Acq: 04 Apr 2019 22:51

Tgt Ion: 128 Resp: 1246477
 Ion Ratio Lower Upper
 128 100
 127 13.1 10.4 15.6
 129 11.2 8.6 12.8

