

Data File : VU030633.D
Acq On : 03 Apr 2019 17:33
Operator : JC/SP
Sample : K2168-13
Misc : 6.26g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BF638

Quant Time: Apr 04 06:56:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Apr 04 06:52:42 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	540315	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	526553	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	271669	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	166578	38.31	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	76.62%
7) Chloroethane-d5	1.64	69	111500	32.35	ug/L	-0.04
Spiked Amount	50.000	Range	70 - 130	Recovery	=	64.70%#
11) 1,1-Dichloroethene-d2	2.24	63	258904	31.39	ug/L	-0.03
Spiked Amount	50.000	Range	60 - 125	Recovery	=	62.78%
21) 2-Butanone-d5	4.19	46	291824	71.39	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	71.39%
24) Chloroform-d	4.64	84	290140	38.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	77.46%
26) 1,2-Dichloroethane-d4	5.30	65	195863	39.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	79.90%
32) Benzene-d6	5.33	84	633244	41.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.88%
36) 1,2-Dichloropropane-d6	6.32	67	210530	40.75	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	81.50%
41) Toluene-d8	7.56	98	603122	44.47	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.94%
43) trans-1,3-Dichloropropene-	7.85	79	103061	42.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.84%
47) 2-Hexanone-d5	8.32	63	231365	82.64	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	82.64%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	316751	42.85	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	85.70%
64) 1,2-Dichlorobenzene-d4	11.86	152	238160	43.75	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.50%

Target Compounds

						Qvalue
6) Bromomethane	1.59	94	1747	0.602	ug/L	74
10) 1,1,2-Trichloro-1,2,2-trif	2.24	101	2243	0.569	ug/L #	21
13) Acetone	2.34	43	7385	1.786	ug/L	74
15) Methyl Acetate	2.60	43	9267	1.464	ug/L #	100
16) Methylene chloride	2.69	84	4977	1.092	ug/L #	1
25) Chloroform	4.66	83	4859	0.614	ug/L	91
29) Cyclohexane	4.98	56	1125402	141.233	ug/L #	87
33) Benzene	5.38	78	161946	9.035	ug/L	100
35) Methylcyclohexane	6.40	83	1730997	238.725	ug/L	97
37) 1,2-Dichloropropane	6.41	63	13956	2.744	ug/L #	49
38) Bromodichloromethane	6.70	83	12376	2.048	ug/L #	86
40) 4-Methyl-2-pentanone	7.52	43	87371	10.226	ug/L #	54
42) Toluene	7.63	91	109374	5.880	ug/L	99
44) trans-1,3-Dichloropropene	7.85	75	4305	0.669	ug/L #	1
45) 1,1,2-Trichloroethane	8.04	97	171538	39.911	ug/L #	18
48) 2-Hexanone	8.32	43	419731	59.938	ug/L #	28
52) Ethylbenzene	9.25	91	1244677	61.766	ug/L	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
Quantitation Report (Not Reviewed)

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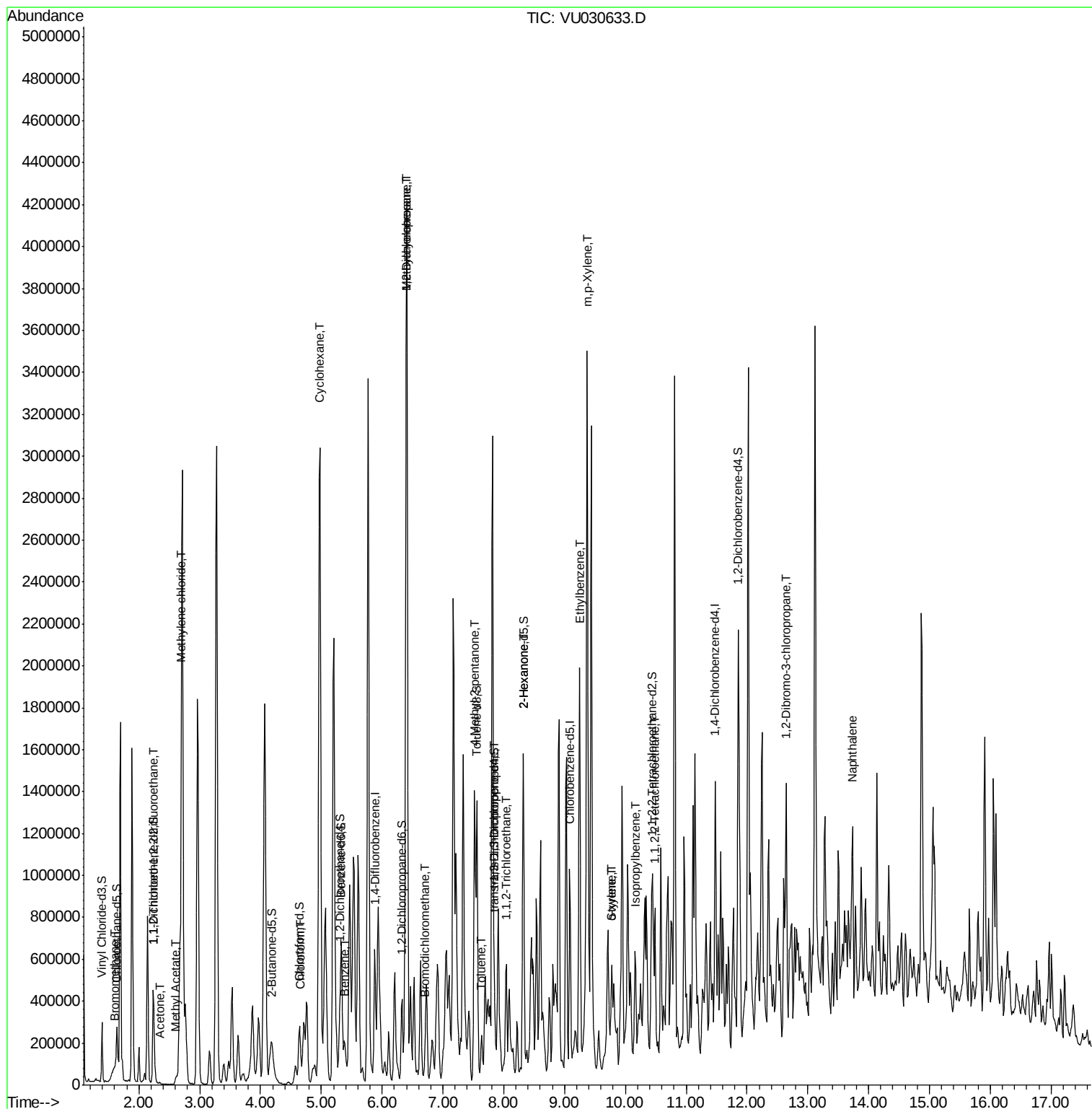
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.37	106	886280	121.805	ug/L	97
54) o-xylene	9.78	106	121695	17.141	ug/L	98
55) Styrene	9.78	104	6779	0.554	ug/L #	1
56) Isopropylbenzene	10.16	105	251405	13.373	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.49	83	83868	10.588	ug/L #	36
66) 1,2-Dibromo-3-chloropropan	12.64	75	4270	2.135	ug/L #	26
69) Naphthalene	13.74	128	432989	21.071	ug/L	99

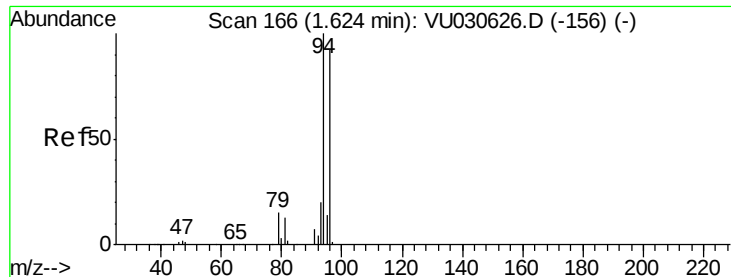
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Bromomethane

Concen: 0.602 ug/L

RT: 1.59 min Scan# 157

Delta R.T. -0.03 min

Lab File: VU030633.D

Acq: 03 Apr 2019 17:33

Instrument :

MSVOA_U

ClientSampleId :

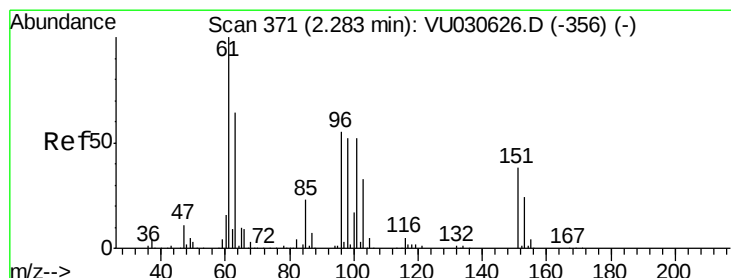
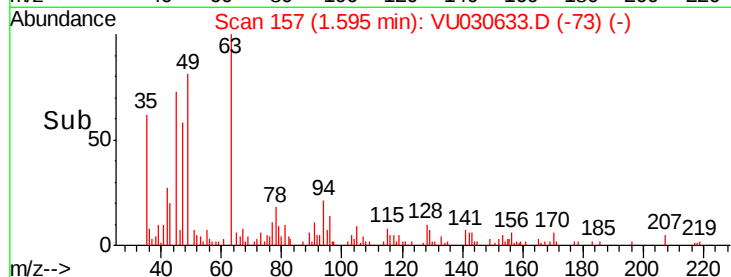
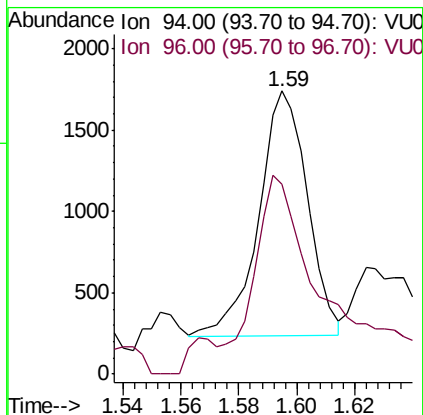
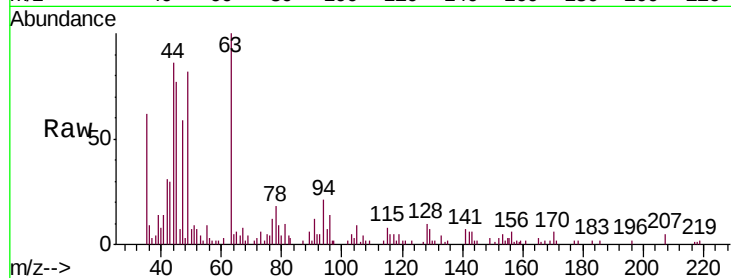
BF638

Tgt Ion: 94 Resp: 1747

Ion Ratio Lower Upper

94 100

96 67.3 64.8 120.3



#10

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

Concen: 0.569 ug/L

RT: 2.24 min Scan# 357

Delta R.T. -0.05 min

Lab File: VU030633.D

Acq: 03 Apr 2019 17:33

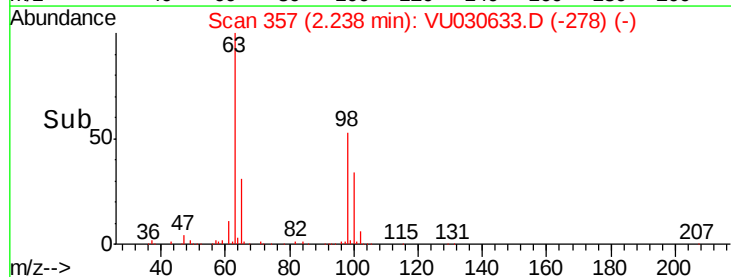
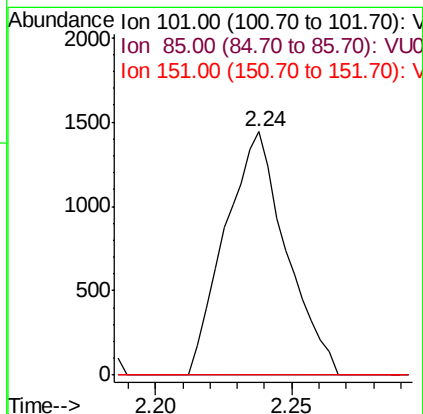
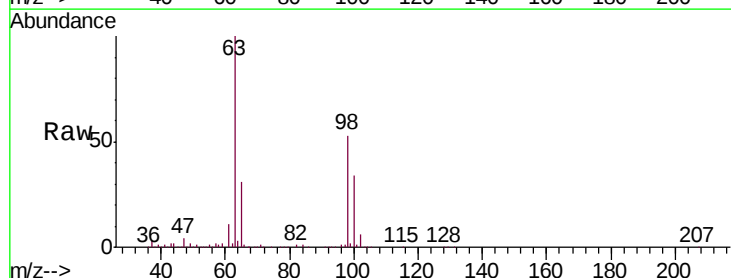
Tgt Ion: 101 Resp: 2243

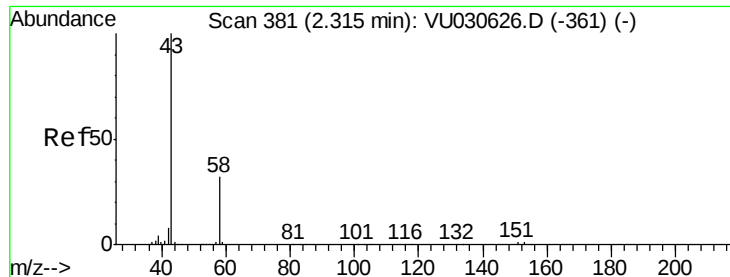
Ion Ratio Lower Upper

101 100

85 0.0 34.8 52.2#

151 0.0 56.6 85.0#





#13

Acetone

Concen: 1.786 ug/L

RT: 2.34 min Scan# 389

Delta R.T. 0.03 min

Lab File: VU030633.D

Acq: 03 Apr 2019 17:33

Instrument :

MSVOA_U

ClientSampleId :

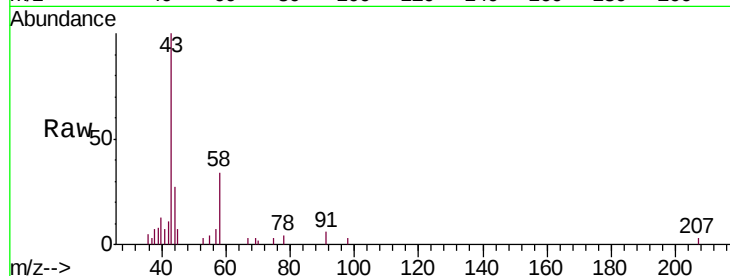
BF638

Tgt Ion: 43 Resp: 7385

Ion Ratio Lower Upper

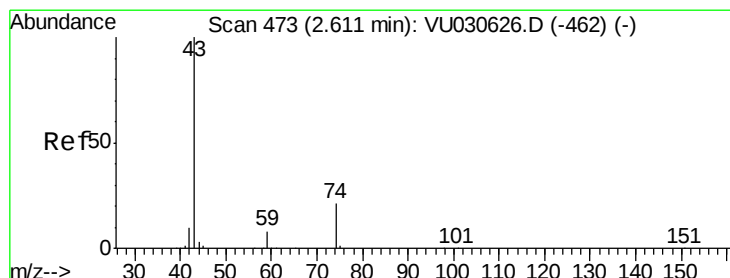
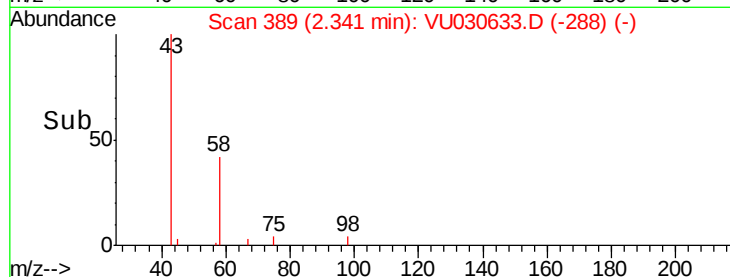
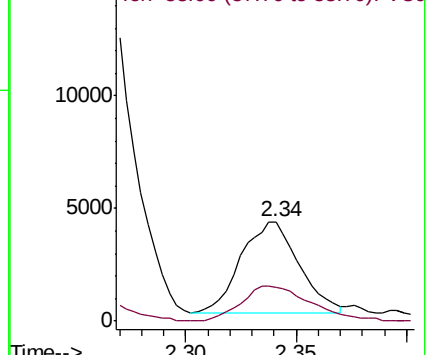
43 100

58 45.8 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU030633.D (-389) (-)

Ion 58.00 (57.70 to 58.70): VU030633.D (-389) (-)



#15

Methyl Acetate

Concen: 1.464 ug/L

RT: 2.60 min Scan# 470

Delta R.T. -0.01 min

Lab File: VU030633.D

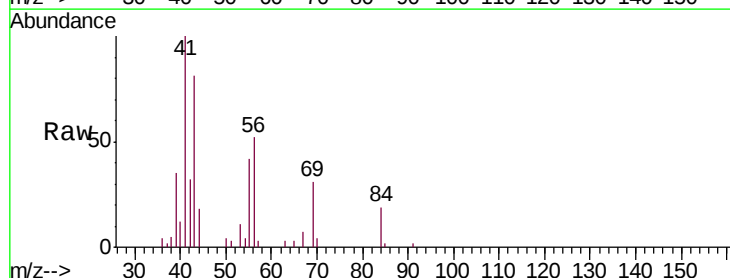
Acq: 03 Apr 2019 17:33

Tgt Ion: 43 Resp: 9267

Ion Ratio Lower Upper

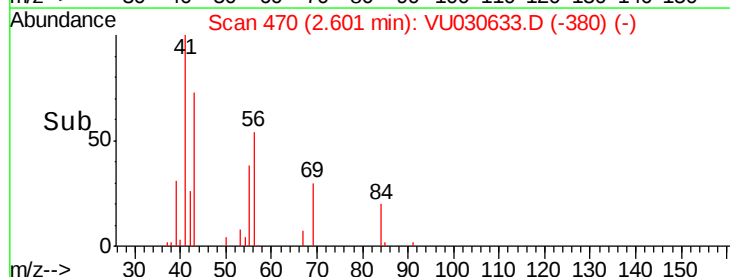
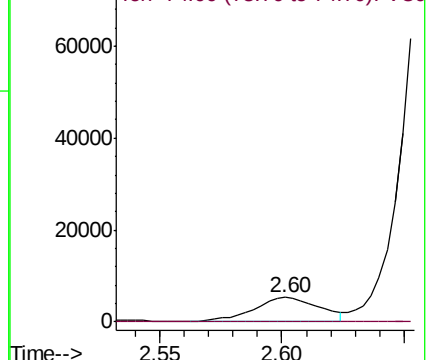
43 100

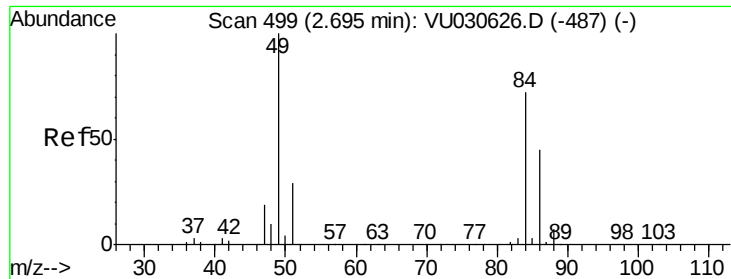
74 1.7 0.0 0.0#



Abundance Ion 43.00 (42.70 to 43.70): VU030633.D (-470) (-)

Ion 74.00 (73.70 to 74.70): VU030633.D (-470) (-)

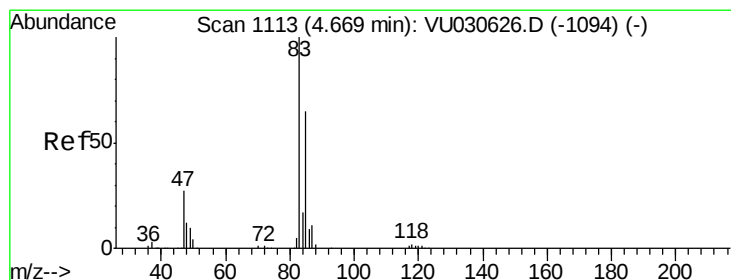
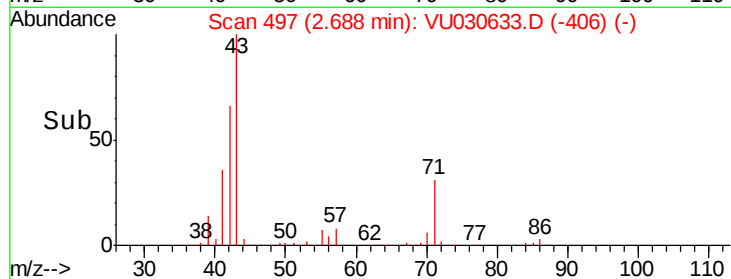
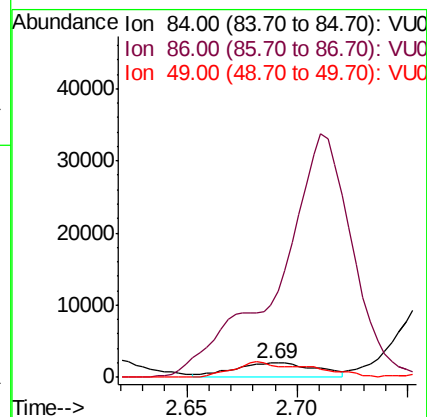
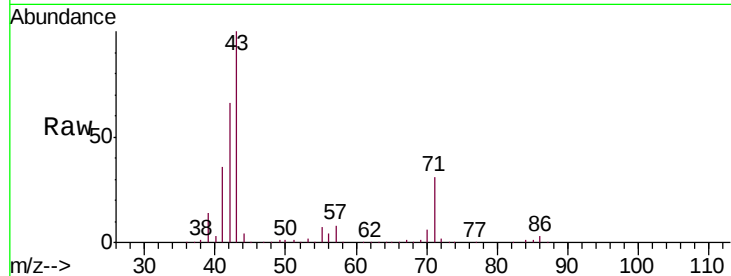




#16
Methylene chloride
Concen: 1.092 ug/L
RT: 2.69 min Scan# 497
Delta R.T. -0.01 min
Lab File: VU030633.D
Acq: 03 Apr 2019 17:33

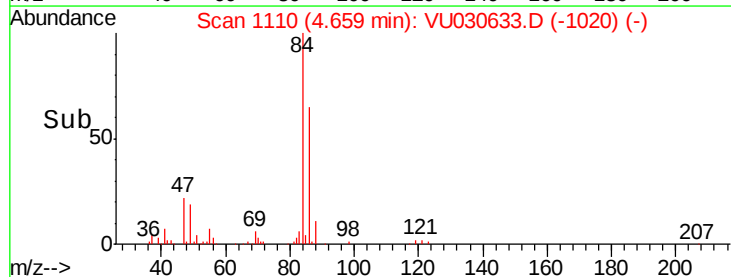
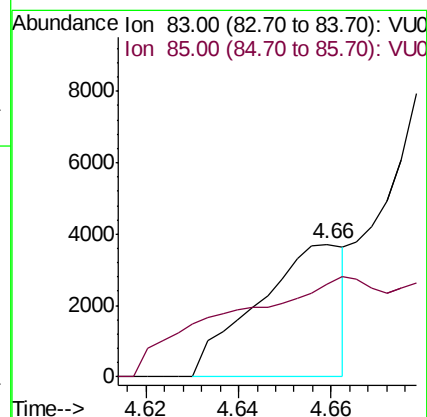
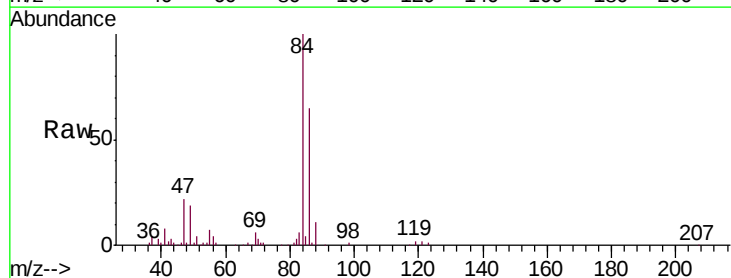
Instrument :
MSVOA_U
ClientSampleId :
BF638

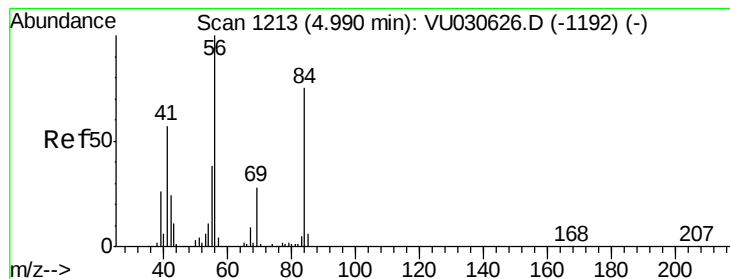
Tgt Ion: 84 Resp: 4977
Ion Ratio Lower Upper
84 100
86 512.8 44.3 82.3#
49 85.8 94.9 176.3#



#25
Chloroform
Concen: 0.614 ug/L
RT: 4.66 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VU030633.D
Acq: 03 Apr 2019 17:33

Tgt Ion: 83 Resp: 4859
Ion Ratio Lower Upper
83 100
85 70.1 44.4 82.4





#29

Cyclohexane

Concen: 141.233 ug/L

RT: 4.98 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VU030633.D

Acq: 03 Apr 2019 17:33

Instrument :

MSVOA_U

ClientSampleId :

BF638

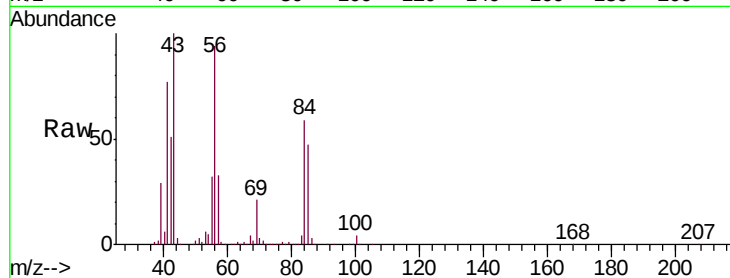
Tgt Ion: 56 Resp: 1125402

Ion Ratio Lower Upper

56 100

69 21.7 22.9 34.3#

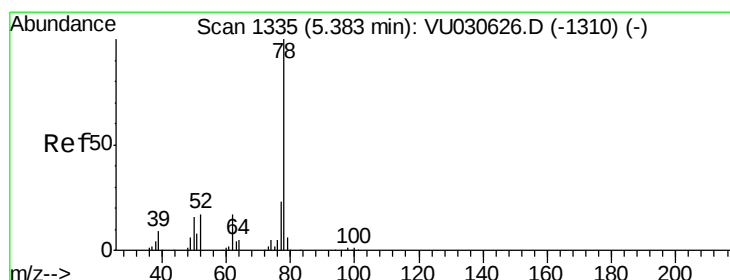
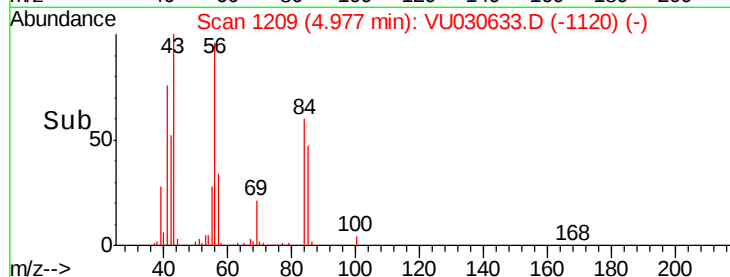
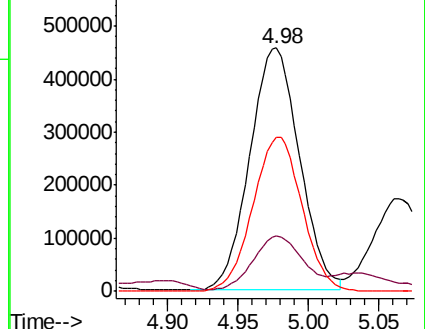
84 62.9 58.9 88.3



Abundance Ion 56.00 (55.70 to 56.70): VU030633.D (-1209) (-)

Ion 69.00 (68.70 to 69.70): VU030633.D (-1209) (-)

Ion 84.00 (83.70 to 84.70): VU030633.D (-1209) (-)



#33

Benzene

Concen: 9.035 ug/L

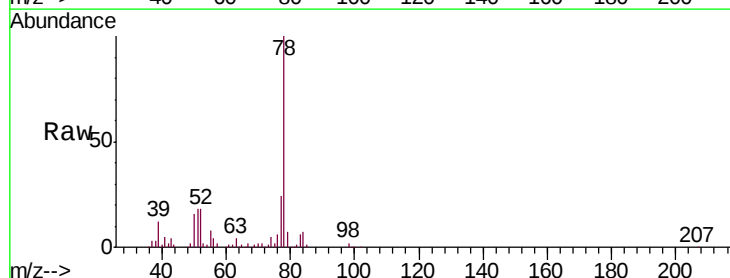
RT: 5.38 min Scan# 1334

Delta R.T. -0.00 min

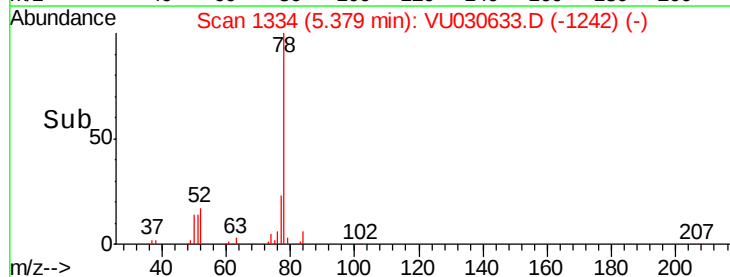
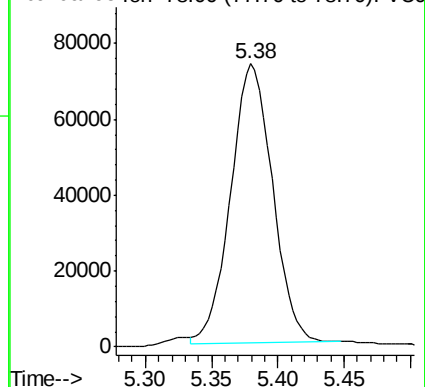
Lab File: VU030633.D

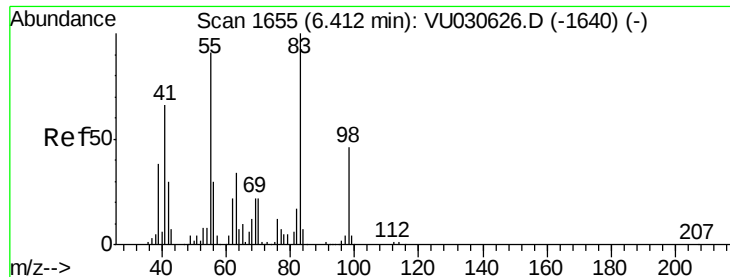
Acq: 03 Apr 2019 17:33

Tgt Ion: 78 Resp: 161946



Abundance Ion 78.00 (77.70 to 78.70): VU030633.D (-1242) (-)

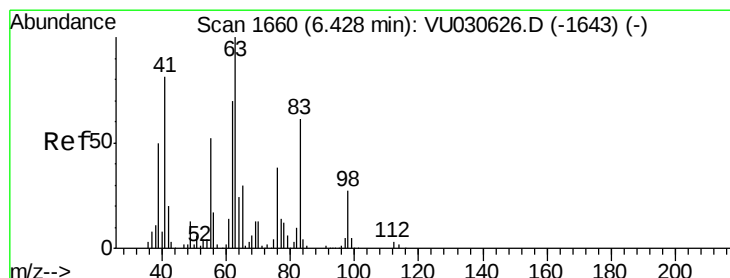
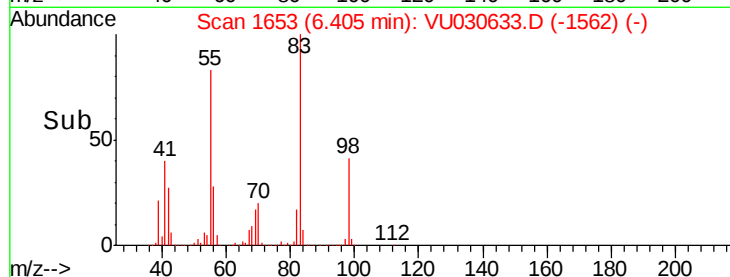
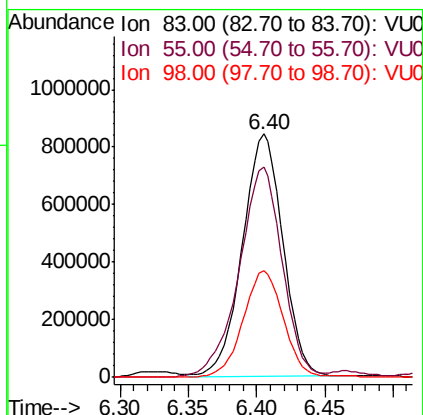
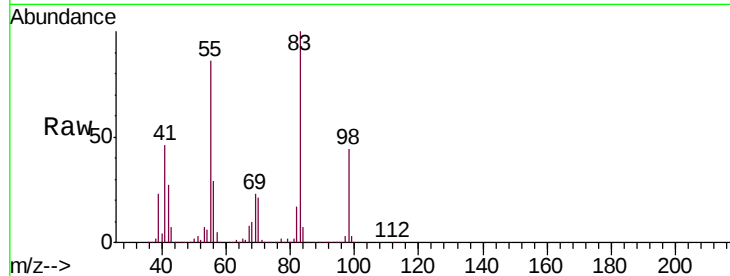




#35
Methylcyclohexane
Concen: 238.725 ug/L
RT: 6.40 min Scan# 1653
Delta R.T. -0.01 min
Lab File: VU030633.D
Acq: 03 Apr 2019 17:33

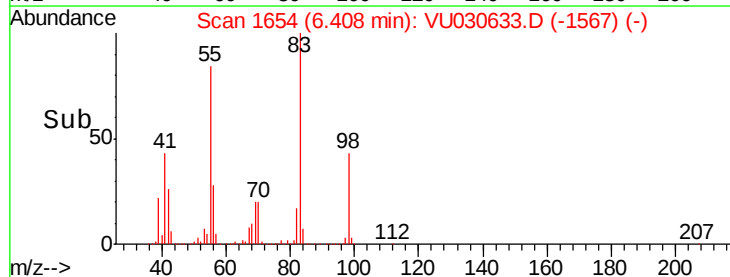
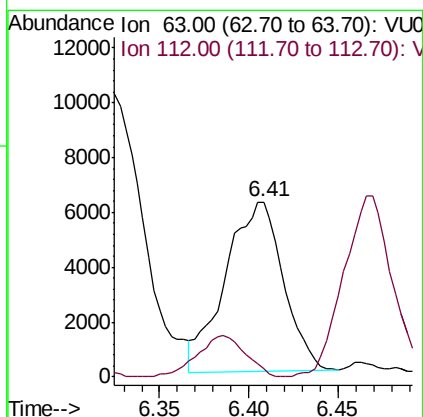
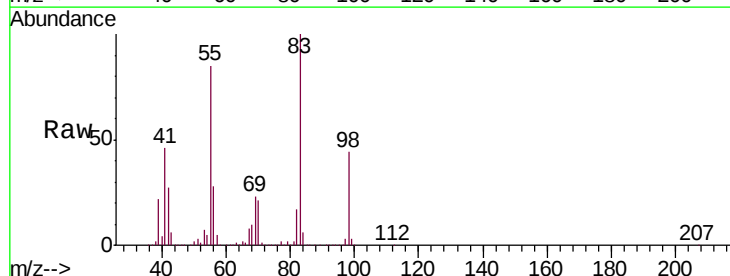
Instrument :
MSVOA_U
ClientSampled :
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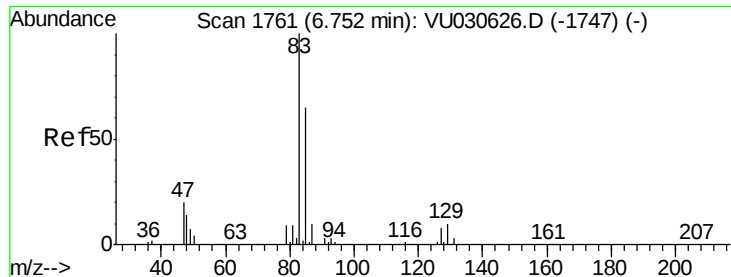
Tgt Ion: 83 Resp: 1730997
Ion Ratio Lower Upper
83 100
55 92.4 71.4 107.0
98 43.6 36.0 54.0



#37
1,2-Dichloropropane
Concen: 2.744 ug/L
RT: 6.41 min Scan# 1654
Delta R.T. -0.02 min
Lab File: VU030633.D
Acq: 03 Apr 2019 17:33

Tgt Ion: 63 Resp: 13956
Ion Ratio Lower Upper
63 100
112 20.2 2.6 4.0#





#38

Bromodichloromethane

Concen: 2.048 ug/L

RT: 6.70 min Scan# 1744

Delta R.T. -0.05 min

Lab File: VU030633.D

Acq: 03 Apr 2019 17:33

Instrument :

MSVOA_U

ClientSampleId :

BF638

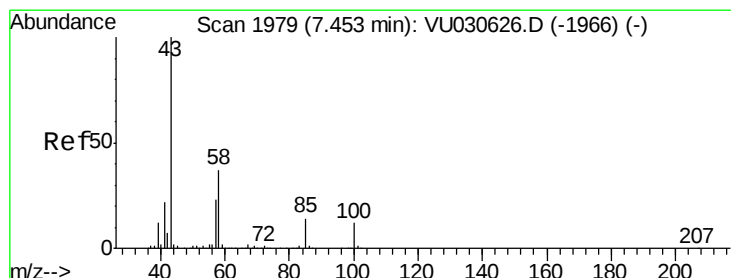
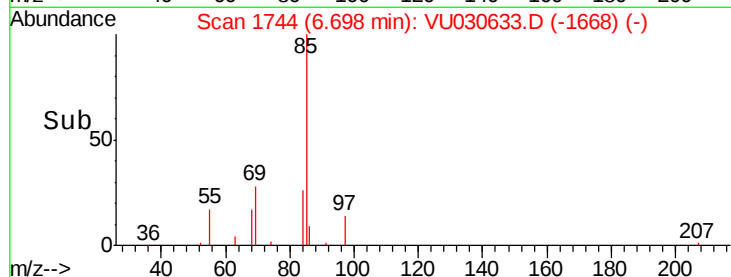
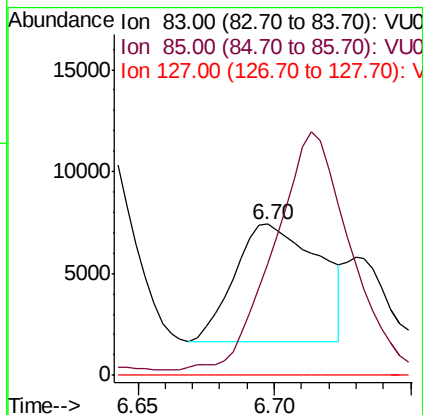
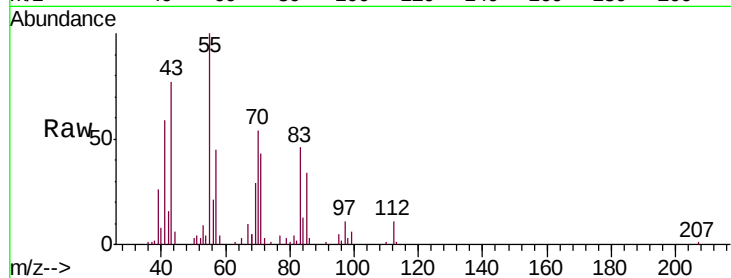
Tgt Ion: 83 Resp: 12376

Ion Ratio Lower Upper

83 100

85 74.2 45.0 83.6

127 0.0 6.6 10.0#



#40

4-Methyl-2-pentanone

Concen: 10.226 ug/L

RT: 7.52 min Scan# 1999

Delta R.T. 0.06 min

Lab File: VU030633.D

Acq: 03 Apr 2019 17:33

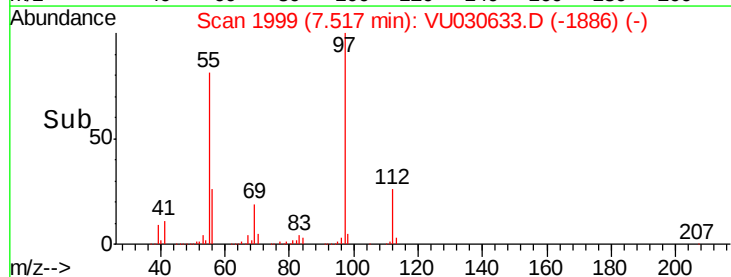
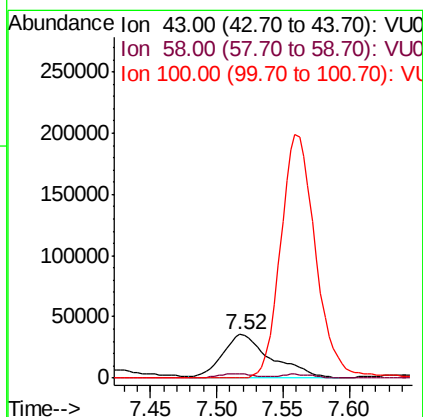
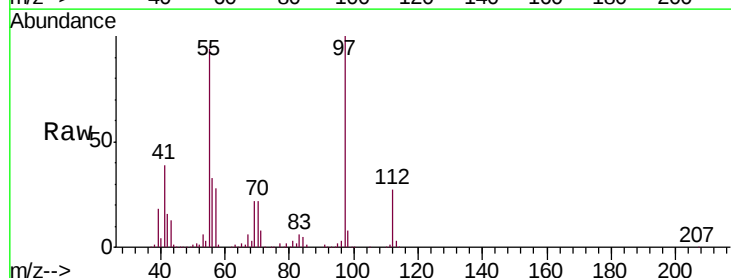
Tgt Ion: 43 Resp: 87371

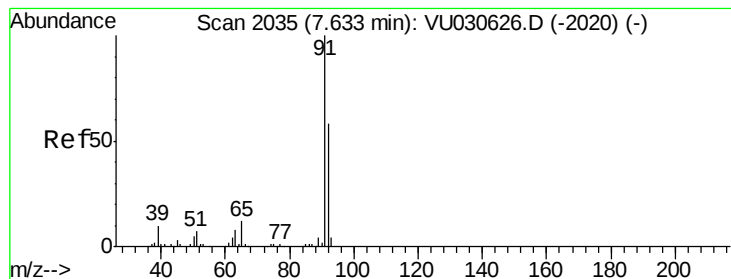
Ion Ratio Lower Upper

43 100

58 7.2 30.6 45.8#

100 0.0 9.5 14.3#





#42

Toluene

Concen: 5.880 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU030633.D

Acq: 03 Apr 2019 17:33

Instrument :

MSVOA_U

ClientSampleId :

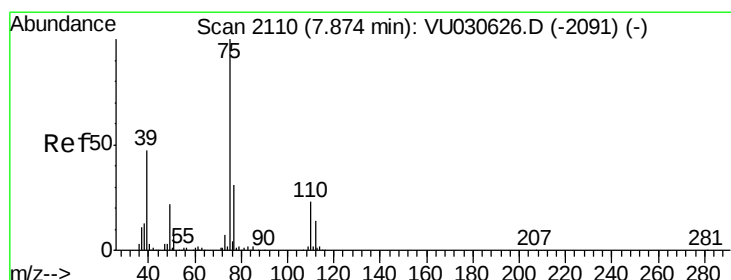
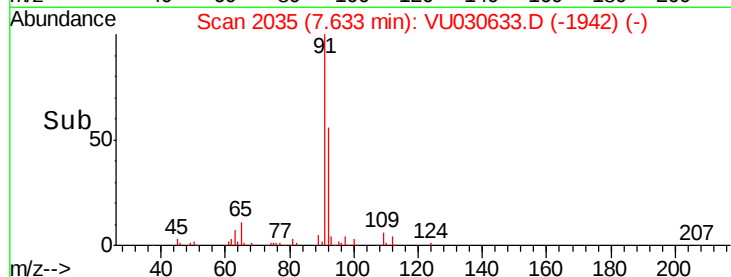
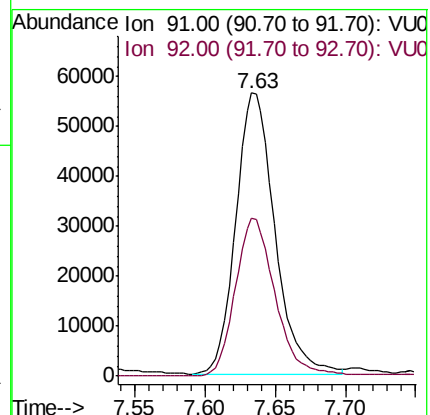
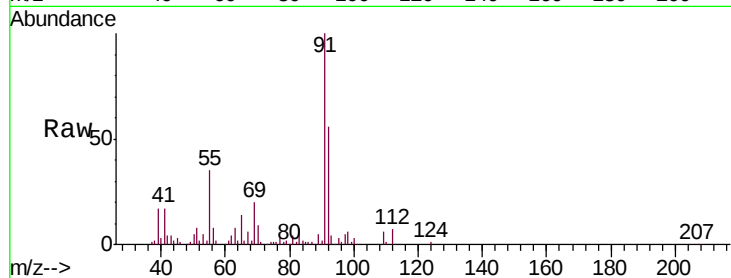
BF638

Tgt Ion: 91 Resp: 109374

Ion Ratio Lower Upper

91 100

92 55.9 39.7 73.7



#44

trans-1,3-Dichloropropene

Concen: 0.669 ug/L

RT: 7.85 min Scan# 2101

Delta R.T. -0.03 min

Lab File: VU030633.D

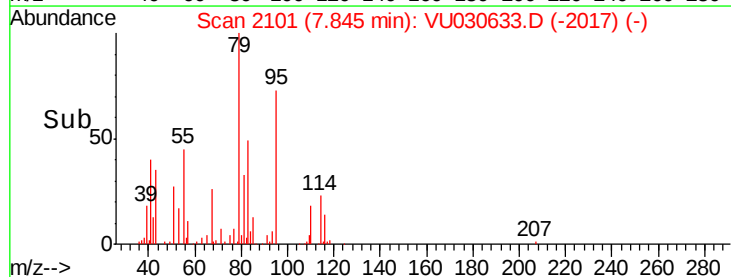
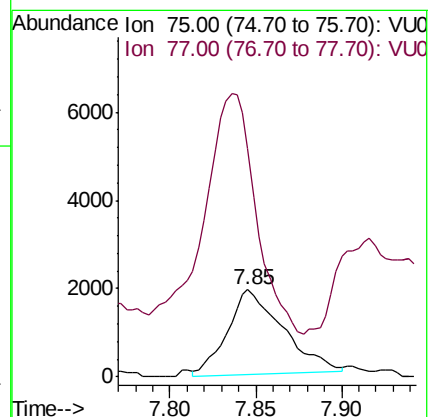
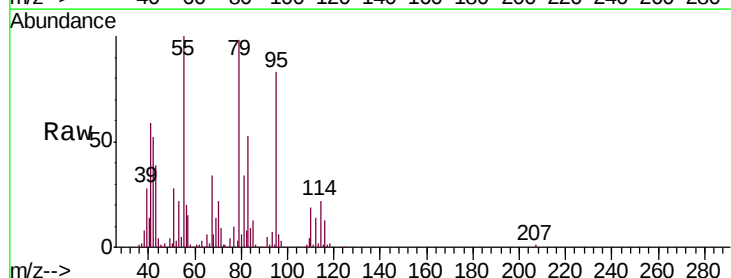
Acq: 03 Apr 2019 17:33

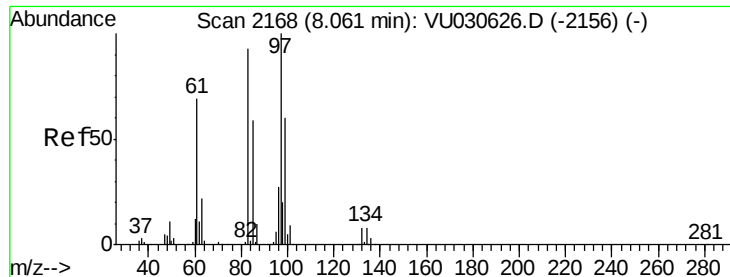
Tgt Ion: 75 Resp: 4305

Ion Ratio Lower Upper

75 100

77 261.1 22.0 40.8#





#45

1,1,2-Trichloroethane

Concen: 39.911 ug/L

RT: 8.04 min Scan# 2161

Delta R.T. -0.02 min

Lab File: VU030633.D

Acq: 03 Apr 2019 17:33

Instrument :

MSVOA_U

ClientSampleId :

BF638

Tgt Ion: 97 Resp: 171538

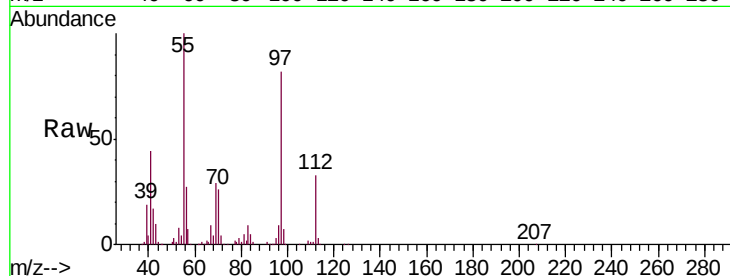
Ion Ratio Lower Upper

97 100

99 0.3 44.0 81.8#

83 11.4 65.3 121.3#

85 0.8 41.8 77.6#



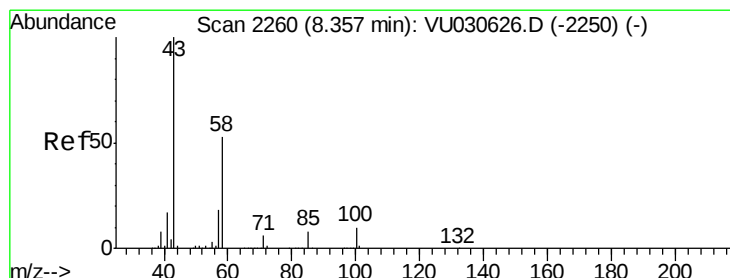
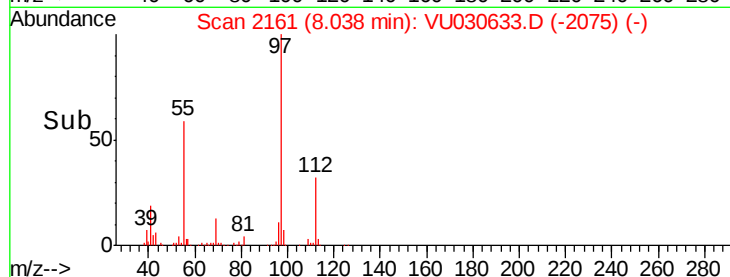
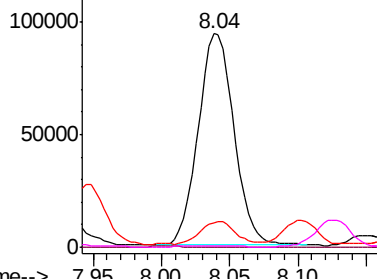
Abundance

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: 59.938 ug/L

RT: 8.32 min Scan# 2249

Delta R.T. -0.04 min

Lab File: VU030633.D

Acq: 03 Apr 2019 17:33

Tgt Ion: 43 Resp: 419731

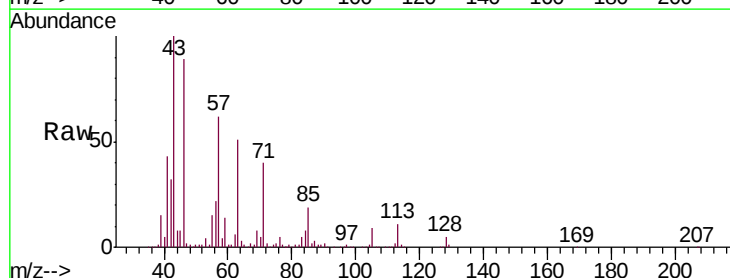
Ion Ratio Lower Upper

43 100

58 4.9 42.5 63.7#

57 66.6 15.0 22.6#

100 0.0 7.4 11.2#



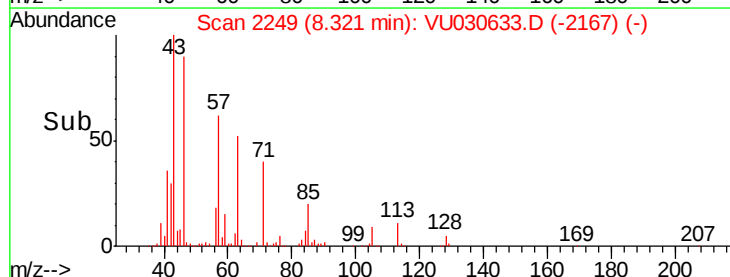
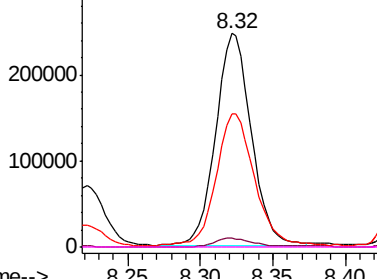
Abundance

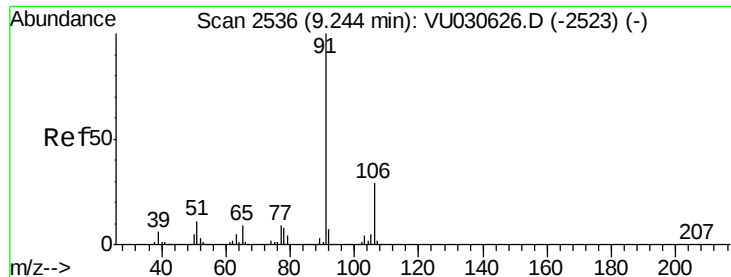
Ion 43.00 (42.70 to 43.70): VU0

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: 61.766 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030633.D

Acq: 03 Apr 2019 17:33

Instrument :

MSVOA_U

ClientSampleId :

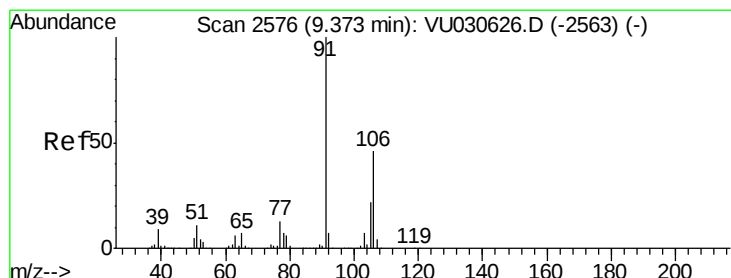
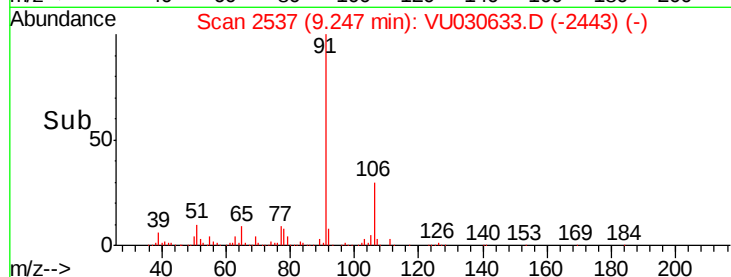
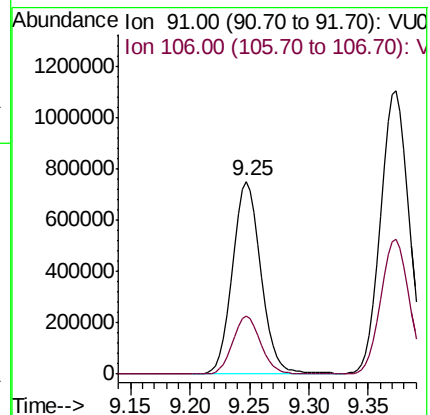
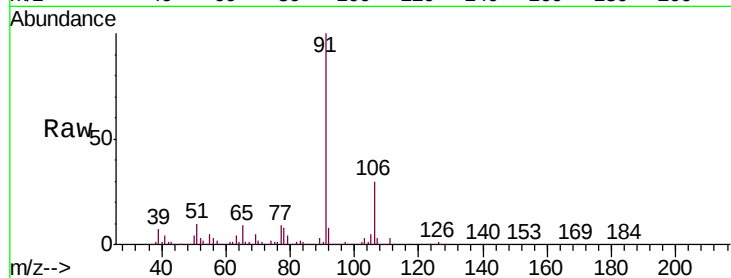
BF638

Tgt Ion: 91 Resp: 1244677

Ion Ratio Lower Upper

91 100

106 30.2 20.6 38.2



#53

m,p-Xylene

Concen: 121.805 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU030633.D

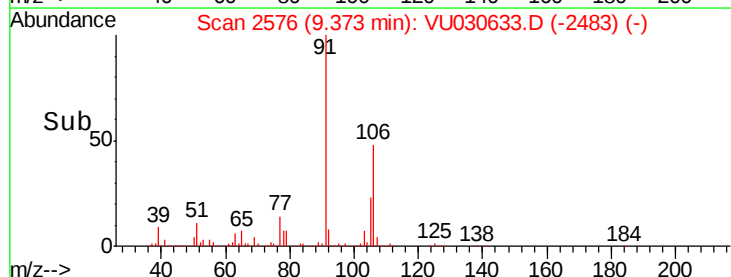
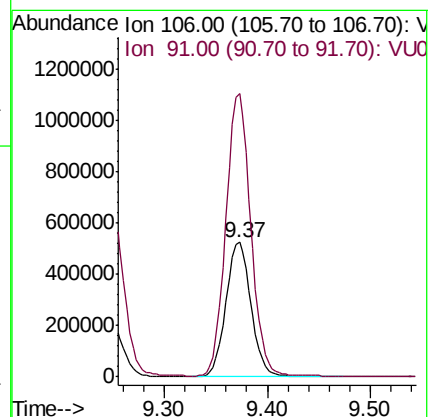
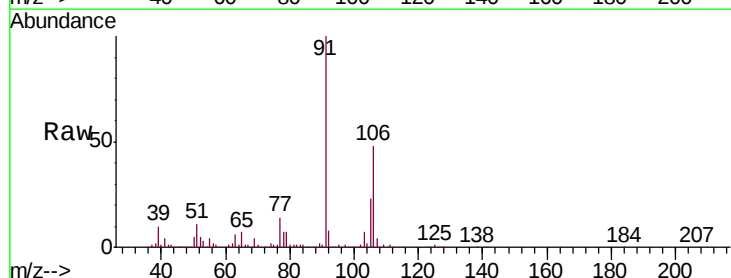
Acq: 03 Apr 2019 17:33

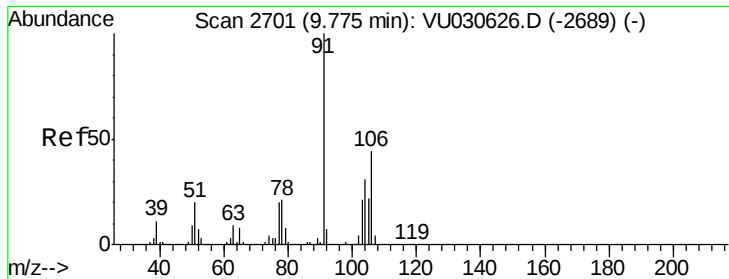
Tgt Ion: 106 Resp: 886280

Ion Ratio Lower Upper

106 100

91 210.5 151.2 280.8





#54

o-xylene

Concen: 17.141 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU030633.D

Acq: 03 Apr 2019 17:33

Instrument :

MSVOA_U

ClientSampleId :

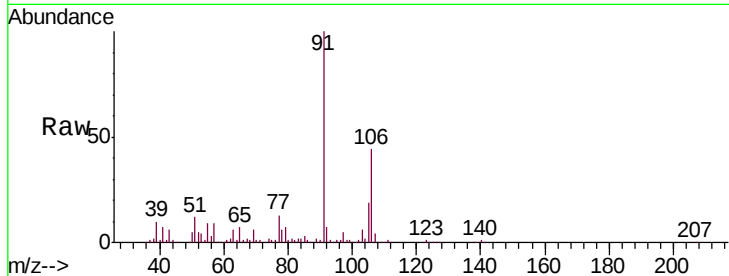
BF638

Tgt Ion:106 Resp: 121695

Ion Ratio Lower Upper

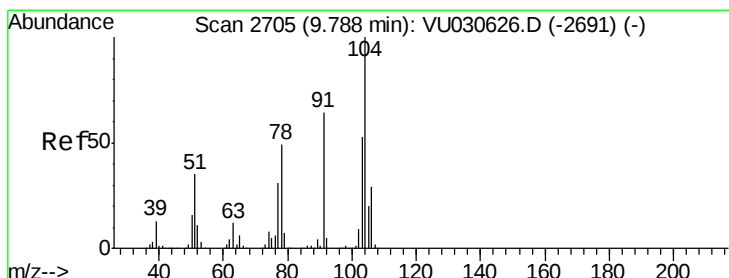
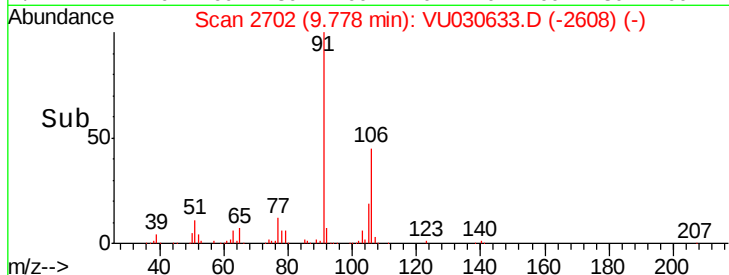
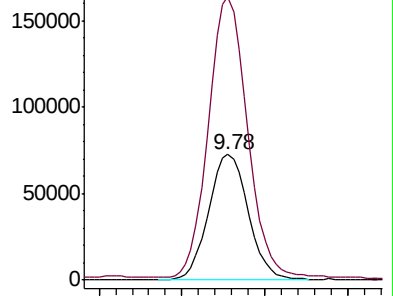
106 100

91 224.8 159.6 296.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 0.554 ug/L

RT: 9.78 min Scan# 2703

Delta R.T. -0.01 min

Lab File: VU030633.D

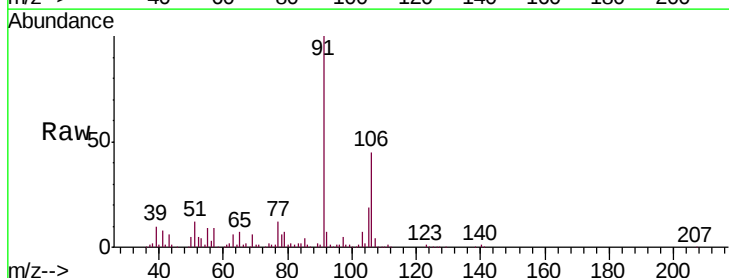
Acq: 03 Apr 2019 17:33

Tgt Ion:104 Resp: 6779

Ion Ratio Lower Upper

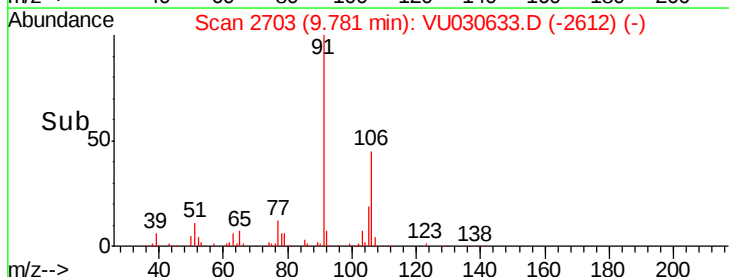
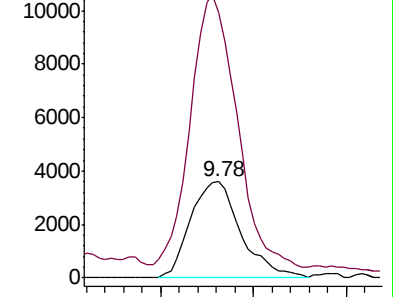
104 100

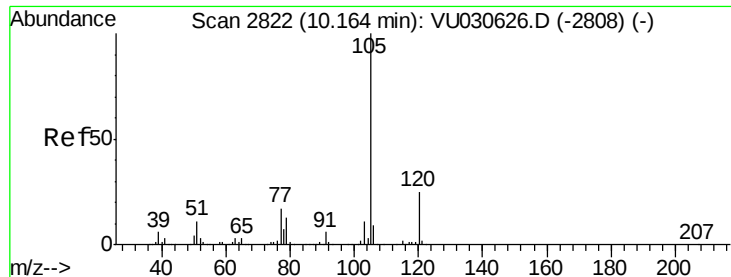
78 276.0 35.1 65.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 13.373 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030633.D

Acq: 03 Apr 2019 17:33

Instrument :

MSVOA_U

ClientSampleId :

BF638

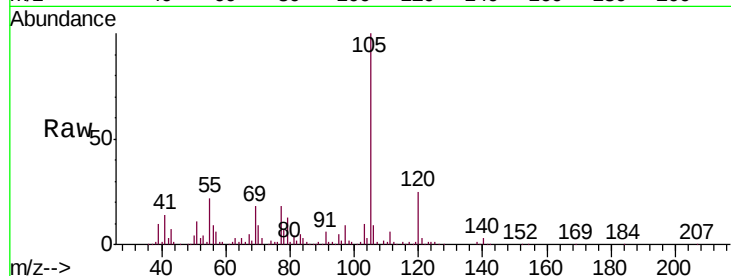
Tgt Ion: 105 Resp: 251405

Ion Ratio Lower Upper

105 100

120 24.9 20.2 30.2

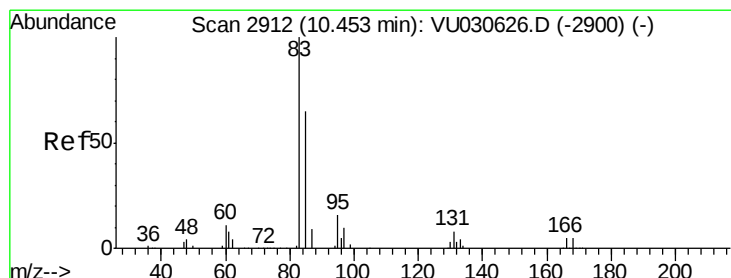
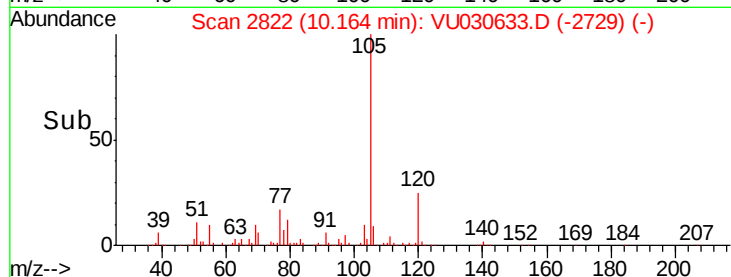
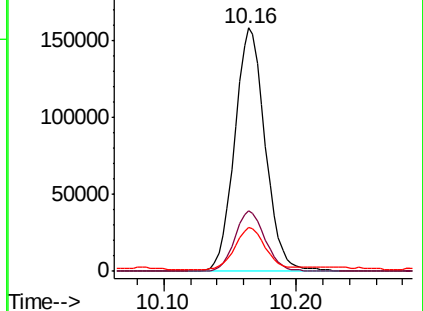
77 17.3 13.2 19.8



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: 10.588 ug/L

RT: 10.49 min Scan# 2922

Delta R.T. 0.03 min

Lab File: VU030633.D

Acq: 03 Apr 2019 17:33

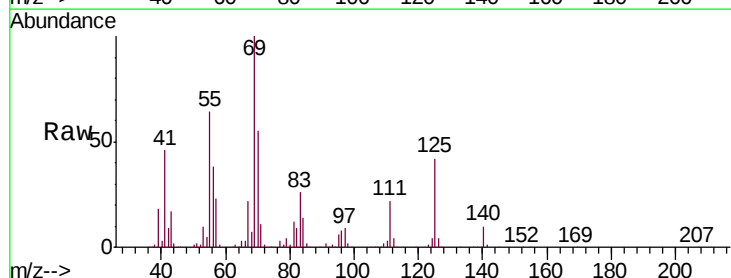
Tgt Ion: 83 Resp: 83868

Ion Ratio Lower Upper

83 100

85 9.3 44.3 82.3#

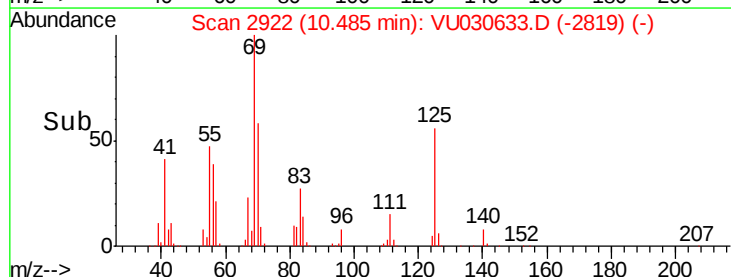
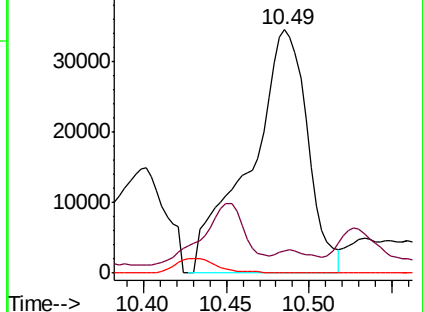
131 0.0 6.7 10.1#

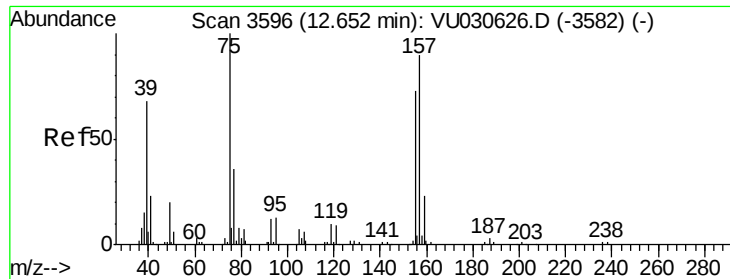


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

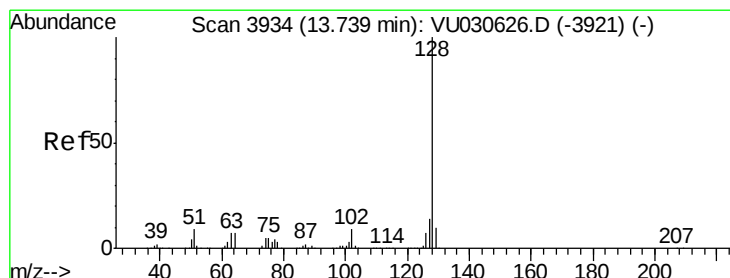
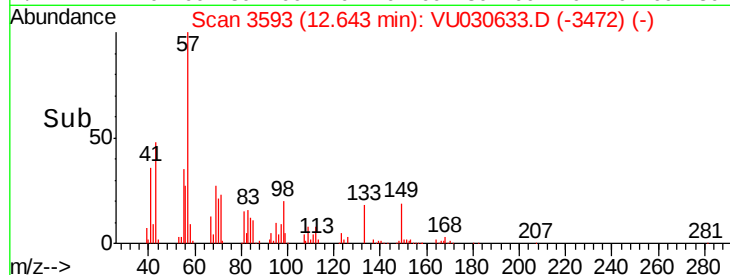
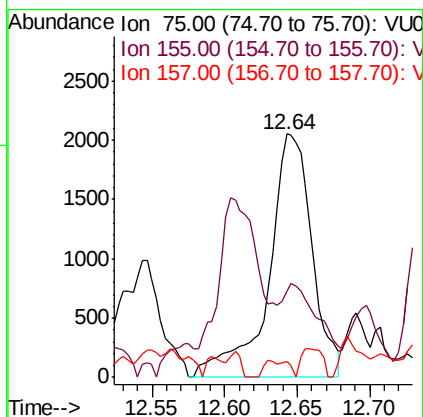
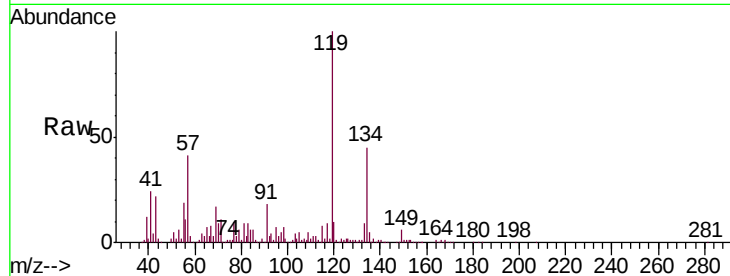




#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.135 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. -0.01 min
 Lab File: VU030633.D
 Acq: 03 Apr 2019 17:33

Instrument :
 MSVOA_U
 ClientSampleId :
 BF638

Tgt Ion: 75 Resp: 4270
 Ion Ratio Lower Upper
 75 100
 155 35.1 61.8 92.6#
 157 6.2 80.2 120.4#



#69
 Naphthalene
 Concen: 21.071 ug/L
 RT: 13.74 min Scan# 3934
 Delta R.T. -0.00 min
 Lab File: VU030633.D
 Acq: 03 Apr 2019 17:33

Tgt Ion: 128 Resp: 432989
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.4 15.6
 129 11.4 8.4 12.6

