

Data File : VU033022.D
Acq On : 24 Jun 2019 21:46
Operator : JC/SP
Sample : K3463-06
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
ETF07

Quant Time: Jun 25 06:59:34 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM061719WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jun 25 06:54:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	190973	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	187190	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	88532	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	59488	45.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.16%
7) Chloroethane-d5	1.68	69	51155	49.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.30%
11) 1,1-Dichloroethene-d2	2.27	63	96536	36.72	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.44%
21) 2-Butanone-d5	4.17	46	122750	113.00	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	113.00%
24) Chloroform-d	4.64	84	126575	49.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.78%
26) 1,2-Dichloroethane-d4	5.30	65	90578	53.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.18%
32) Benzene-d6	5.33	84	247471	50.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.42%
36) 1,2-Dichloropropane-d6	6.32	67	80775	51.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.92%
41) Toluene-d8	7.56	98	225885	49.43	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.86%
43) trans-1,3-Dichloropropene-	7.85	79	38783	47.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.92%
47) 2-Hexanone-d5	8.31	63	71237	98.15	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.15%
57) 1,1,2,2-Tetrachloroethane-	10.42	84	118147	49.17	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.34%
64) 1,2-Dichlorobenzene-d4	11.85	152	90292	52.70	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.40%

Target Compounds

					Qvalue
5) Vinyl chloride	1.40	62	1480	0.853 ug/L #	1
8) Chloroethane	1.40	64	1380	1.382 ug/L #	13
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	864	0.677 ug/L #	17
12) 1,1-Dichloroethene	2.26	96	1184	0.985 ug/L #	1
13) Acetone	2.32	43	929	0.619 ug/L	72
17) trans-1,2-Dichloroethene	2.98	96	971	0.745 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	103462	72.824 ug/L	97
34) Trichloroethene	6.18	95	13671	9.489 ug/L	99
35) Methylcyclohexane	6.32	83	19066	8.561 ug/L #	18
37) 1,2-Dichloropropane	6.32	63	9700	6.558 ug/L #	88
39) cis-1,3-Dichloropropene	7.22	75	2850	1.237 ug/L #	79
40) 4-Methyl-2-pentanone	7.56	43	1124	0.476 ug/L #	1
44) trans-1,3-Dichloropropene	7.84	75	2031	0.938 ug/L	97
46) Tetrachloroethene	8.22	164	15003	12.708 ug/L	96
48) 2-Hexanone	8.36	43	3249	1.559 ug/L #	86
49) Dibromochloromethane	8.22	129	14079	8.483 ug/L #	12
59) 1,2,3-Trichloropropane	11.48	75	11182	5.665 ug/L #	85

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062419\
Quantitation Report (Not Reviewed)

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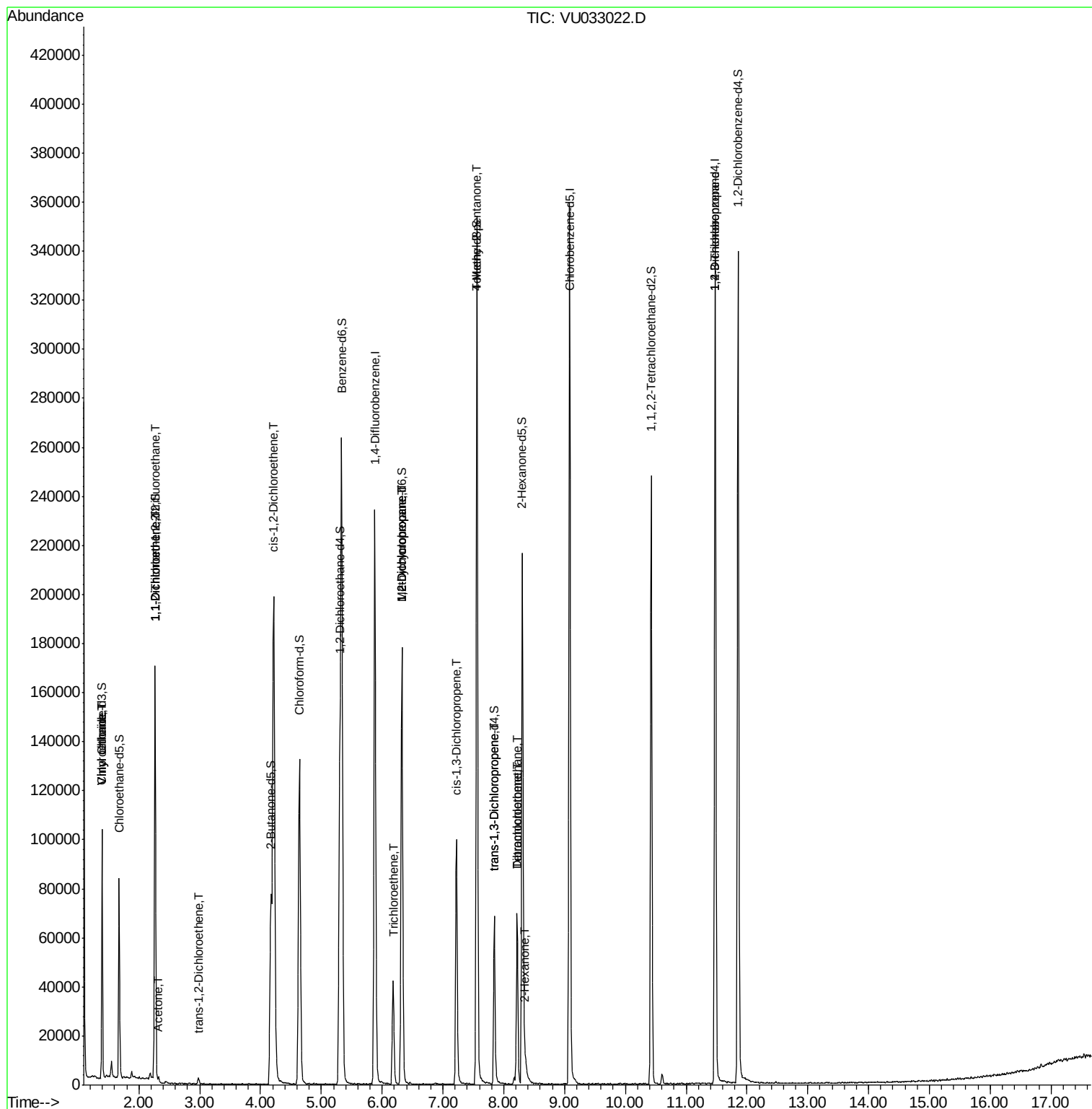
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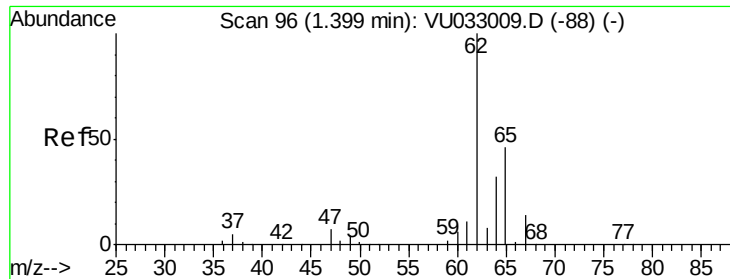
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.853 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU033022.D

Acq: 24 Jun 2019 21:46

Instrument :

MSVOA_U

ClientSampleId :

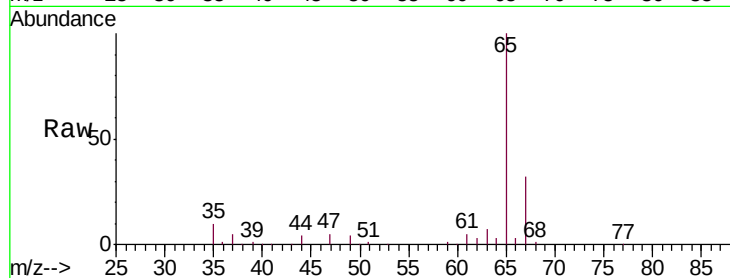
ETF07

Tgt Ion: 62 Resp: 1480

Ion Ratio Lower Upper

62 100

64 96.8 23.0 42.6#



Abundance Ion 62.00 (61.70 to 62.70): VU033009.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU033009.D (-88) (-)

1.40

1500

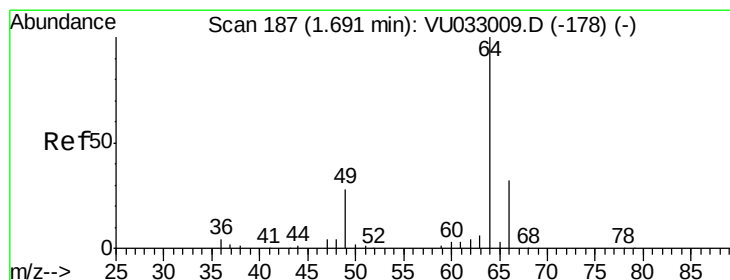
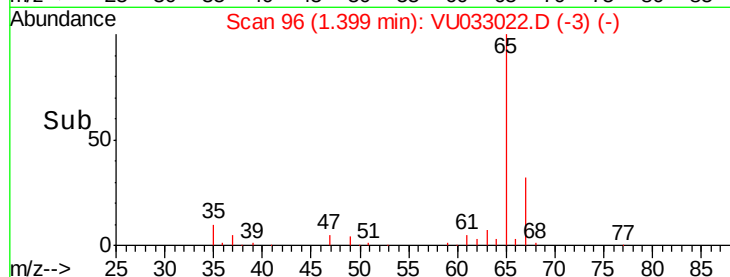
1000

500

0

1.38 1.40 1.42

Time-->



#8

Chloroethane

Concen: 1.382 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.29 min

Lab File: VU033022.D

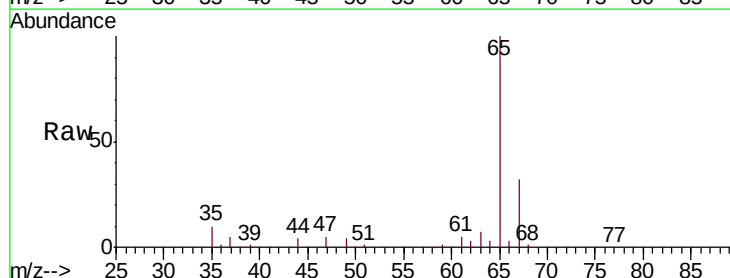
Acq: 24 Jun 2019 21:46

Tgt Ion: 64 Resp: 1380

Ion Ratio Lower Upper

64 100

66 80.9 22.5 41.7#



Abundance Ion 64.00 (63.70 to 64.70): VU033009.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU033009.D (-178) (-)

1.40

1500

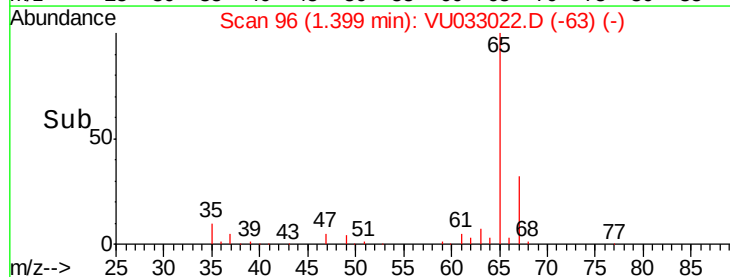
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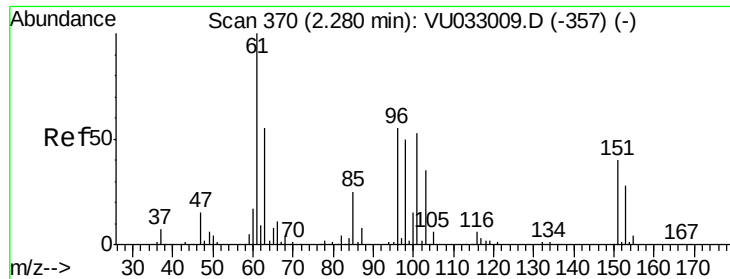
500

0

1.38 1.40 1.42

Time-->





#10

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

Concen: 0.677 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.01 min

Lab File: VU033022.D

Acq: 24 Jun 2019 21:46

Instrument :

MSVOA_U

ClientSampleId :

ETF07

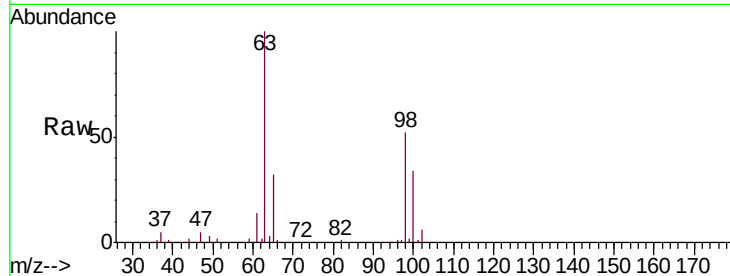
Tgt Ion: 101 Resp: 864

Ion Ratio Lower Upper

101 100

85 0.0 36.8 55.2#

151 0.0 63.6 95.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

2.27

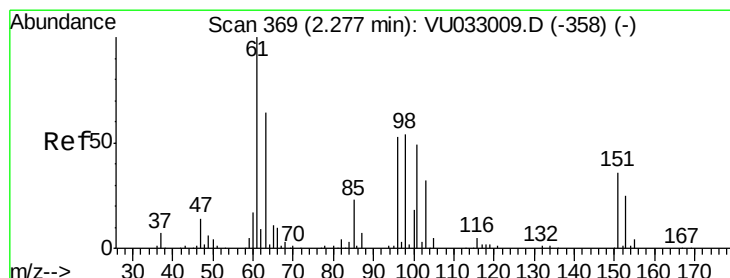
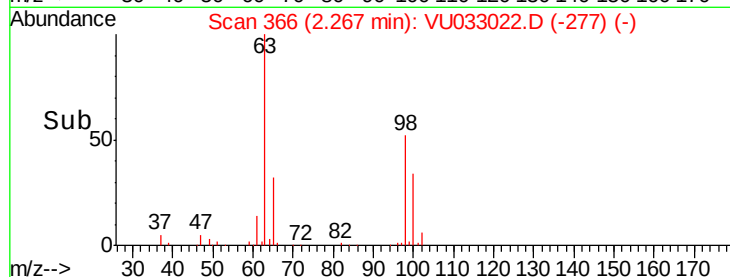
600

400

200

0

Time-->



#12

1,1-Dichloroethene

Concen: 0.985 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.01 min

Lab File: VU033022.D

Acq: 24 Jun 2019 21:46

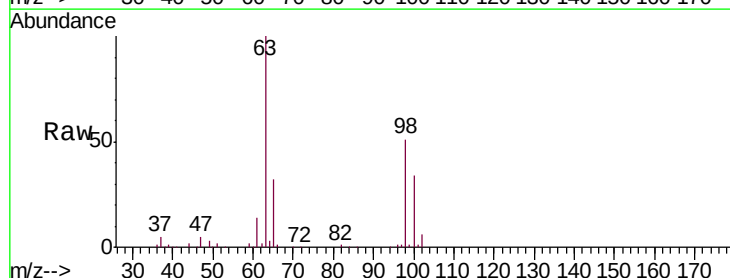
Tgt Ion: 96 Resp: 1184

Ion Ratio Lower Upper

96 100

61 1398.7 131.0 243.4#

63 10282.2 101.0 187.6#



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

80000

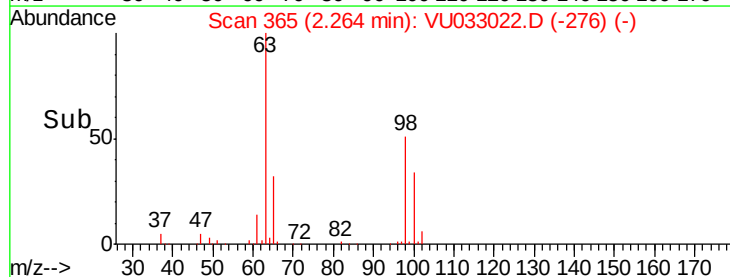
60000

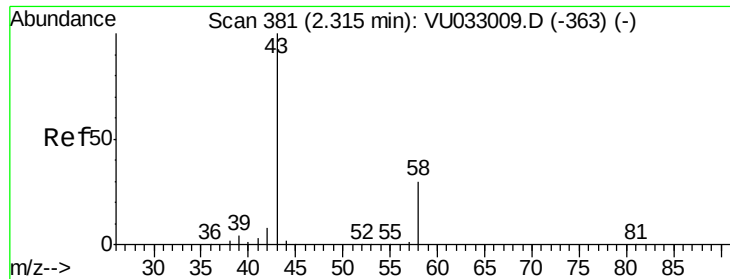
40000

20000

0

Time-->





#13

Acetone

Concen: 0.619 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.01 min

Lab File: VU033022.D

Acq: 24 Jun 2019 21:46

Instrument :

MSVOA_U

ClientSampleId :

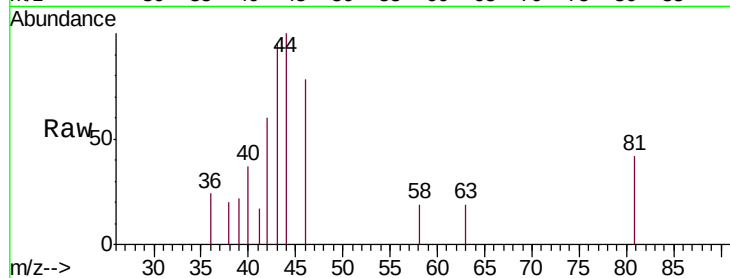
ETF07

Tgt Ion: 43 Resp: 929

Ion Ratio Lower Upper

43 100

58 15.3 0.0 60.6



Abundance Ion 43.00 (42.70 to 43.70): VU033009.D

Ion 58.00 (57.70 to 58.70): VU033009.D

2.32

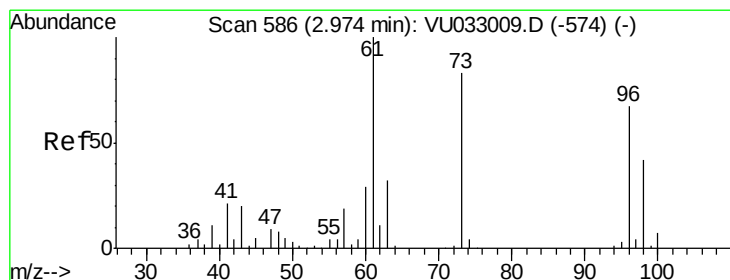
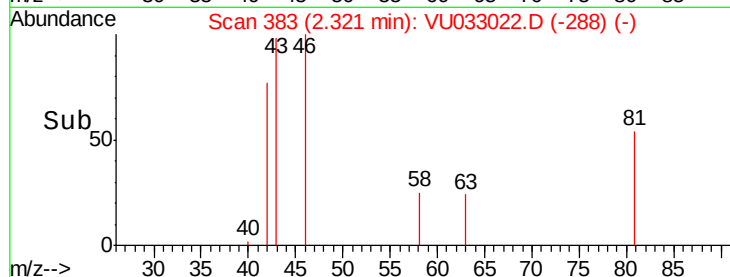
600

400

200

0

Time-->



#17

trans-1,2-Dichloroethene

Concen: 0.745 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.01 min

Lab File: VU033022.D

Acq: 24 Jun 2019 21:46

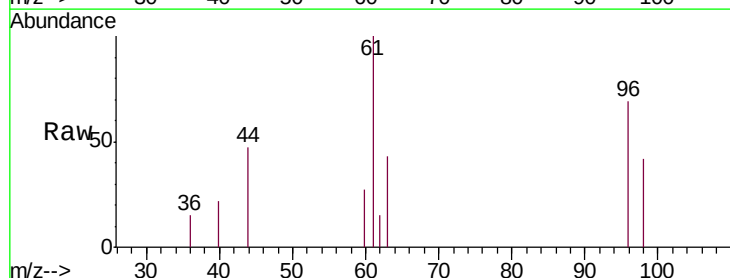
Tgt Ion: 96 Resp: 971

Ion Ratio Lower Upper

96 100

61 144.8 100.9 187.5

98 60.6 44.0 81.8



Abundance Ion 96.00 (95.70 to 96.70): VU033009.D

Ion 61.00 (60.70 to 61.70): VU033009.D

Ion 98.00 (97.70 to 98.70): VU033009.D

1000

800

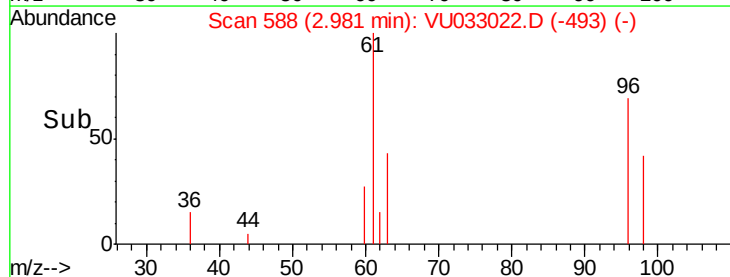
600

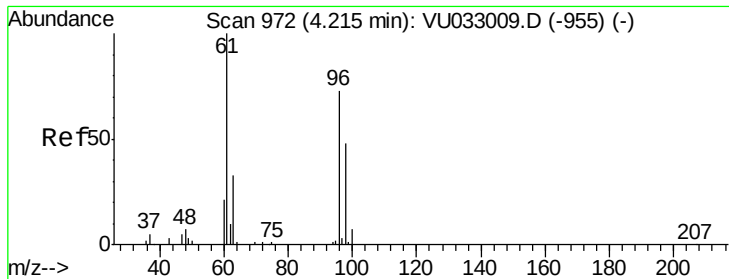
400

200

0

Time-->

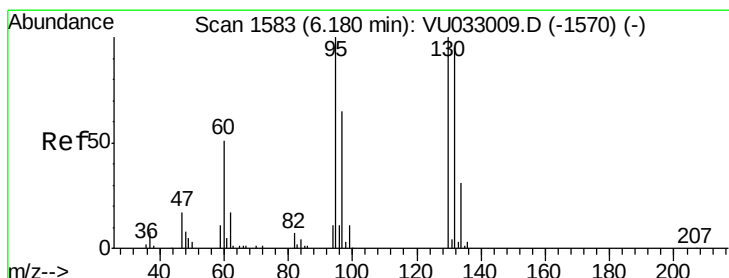
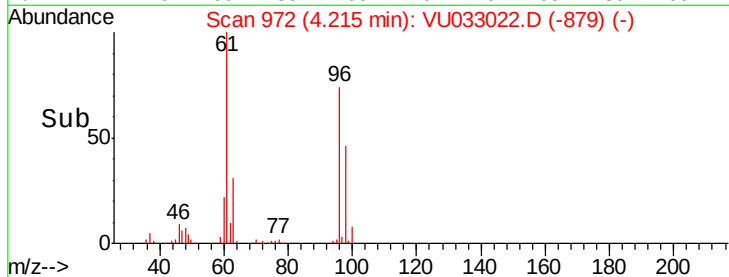
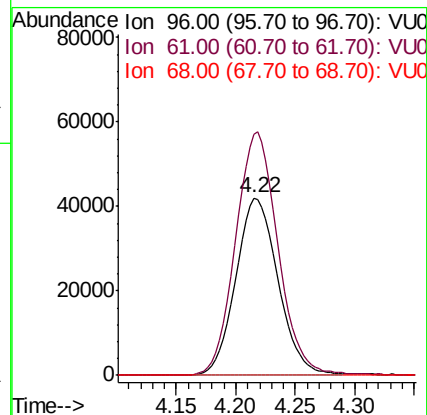
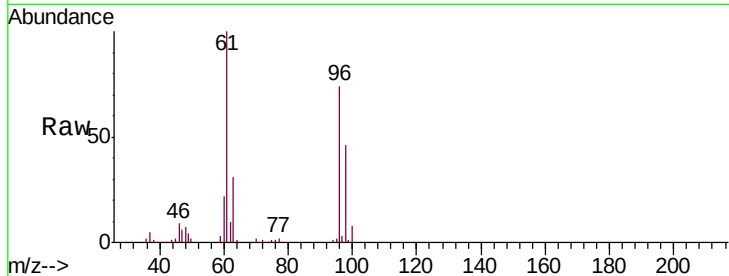




#20
 cis-1,2-Dichloroethene
 Concen: 72.824 ug/L
 RT: 4.22 min Scan# 972
 Delta R.T. -0.00 min
 Lab File: VU033022.D
 Acq: 24 Jun 2019 21:46

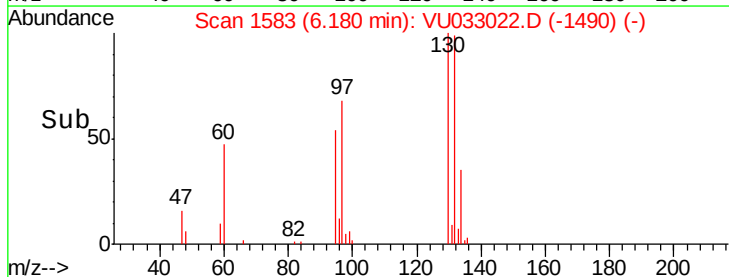
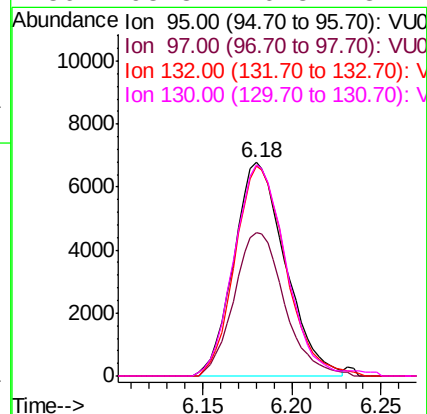
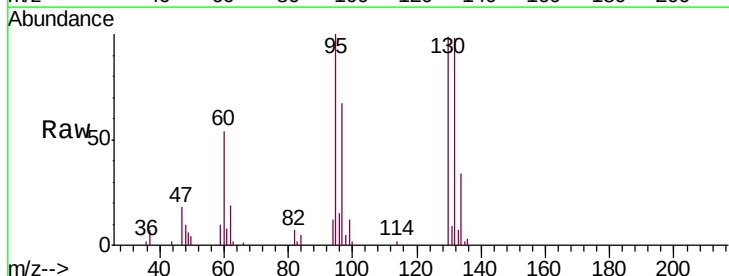
Instrument :
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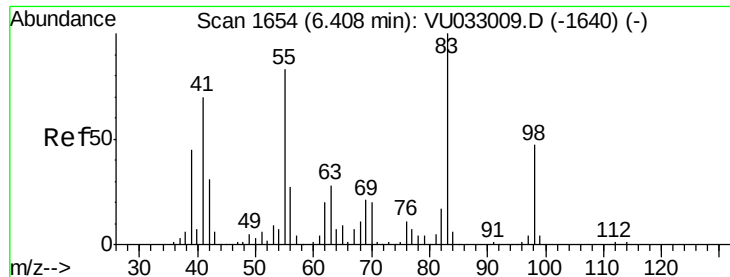
Tgt Ion: 96 Resp: 103462
 Ion Ratio Lower Upper
 96 100
 61 136.0 92.4 171.6
 68 0.0 0.0 0.0



#34
 Trichloroethene
 Concen: 9.489 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: VU033022.D
 Acq: 24 Jun 2019 21:46

Tgt Ion: 95 Resp: 13671
 Ion Ratio Lower Upper
 95 100
 97 67.2 45.9 85.3
 132 98.2 68.5 127.3
 130 98.8 70.8 131.4

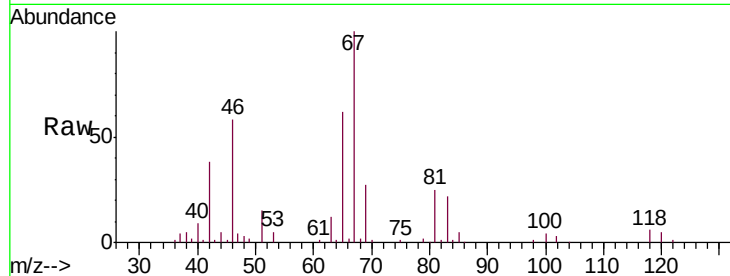




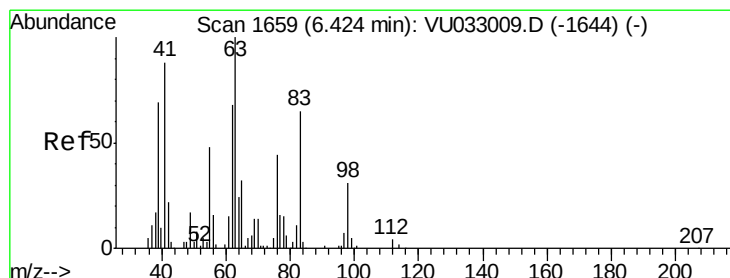
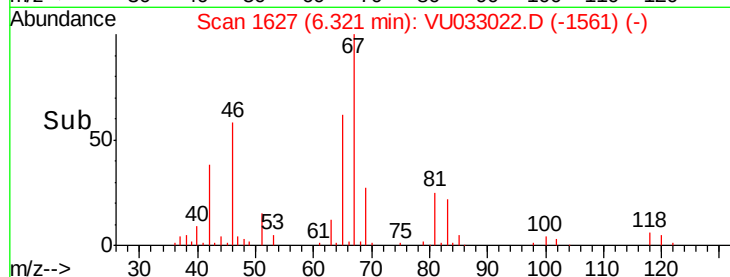
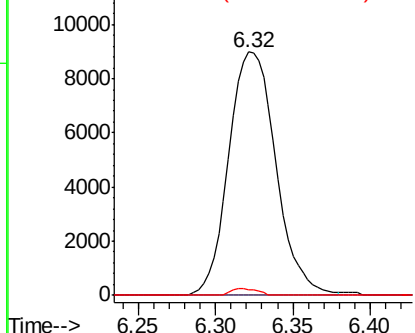
#35
Methylcyclohexane
Concen: 8.561 ug/L
RT: 6.32 min Scan# 1627
Delta R.T. -0.09 min
Lab File: VU033022.D
Acq: 24 Jun 2019 21:46

Instrument :
MSVOA_U
ClientSampleId :
ETF07

Tgt Ion: 83 Resp: 19066
Ion Ratio Lower Upper
83 100
55 0.0 62.6 94.0#
98 1.5 37.4 56.0#

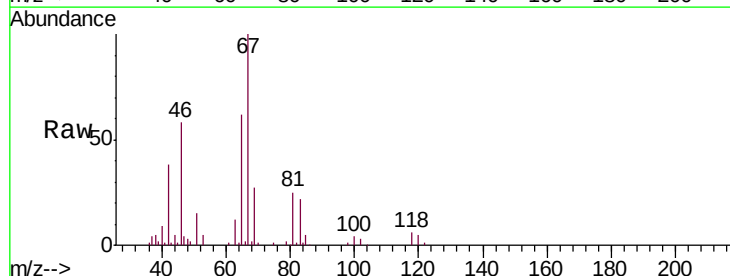


Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

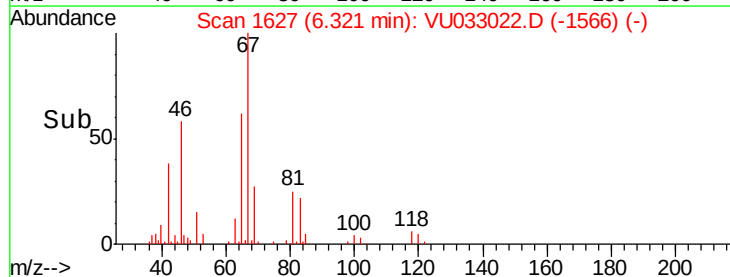
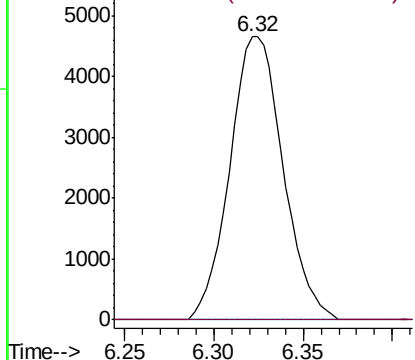


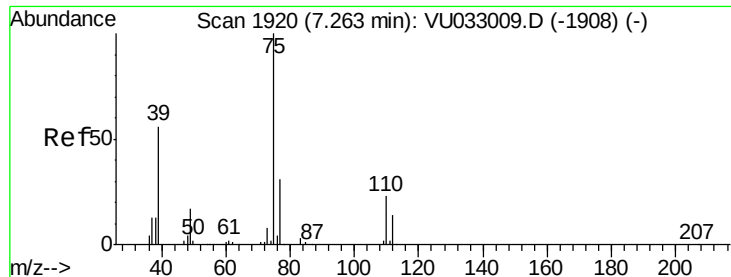
#37
1,2-Dichloropropane
Concen: 6.558 ug/L
RT: 6.32 min Scan# 1627
Delta R.T. -0.10 min
Lab File: VU033022.D
Acq: 24 Jun 2019 21:46

Tgt Ion: 63 Resp: 9700
Ion Ratio Lower Upper
63 100
112 0.0 3.0 4.6#



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 112.00 (111.70 to 112.70): V

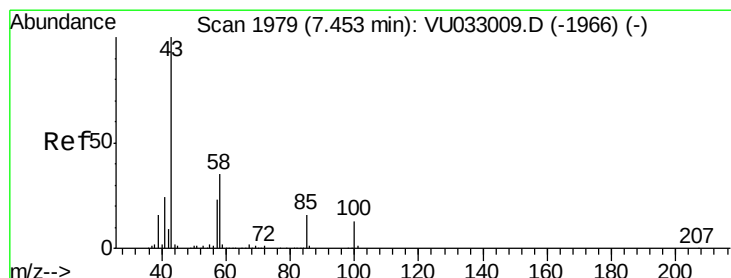
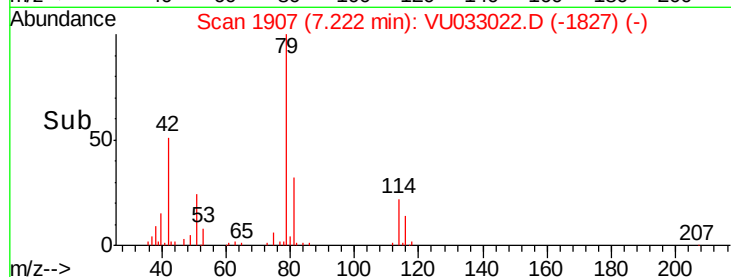
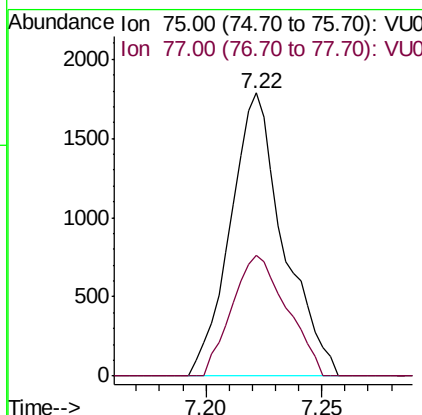
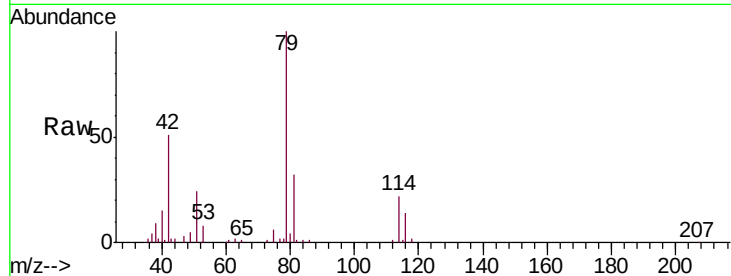




#39
 cis-1,3-Dichloropropene
 Concen: 1.237 ug/L
 RT: 7.22 min Scan# 1907
 Delta R.T. -0.04 min
 Lab File: VU033022.D
 Acq: 24 Jun 2019 21:46

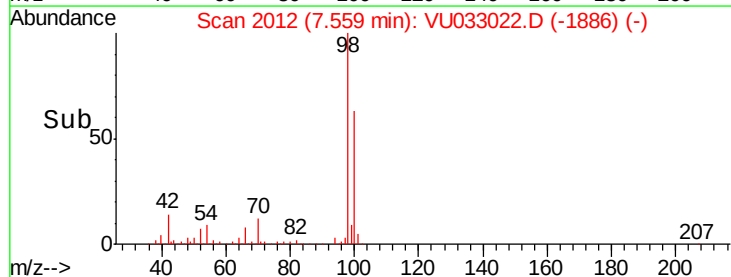
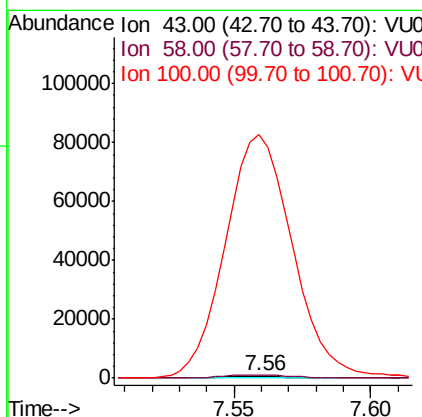
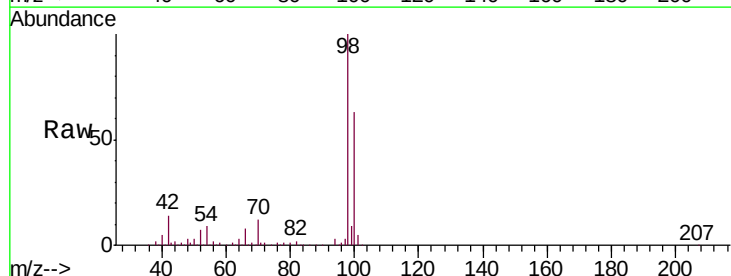
Instrument :
 MSVOA_U
 ClientSampleId :
 ETF07

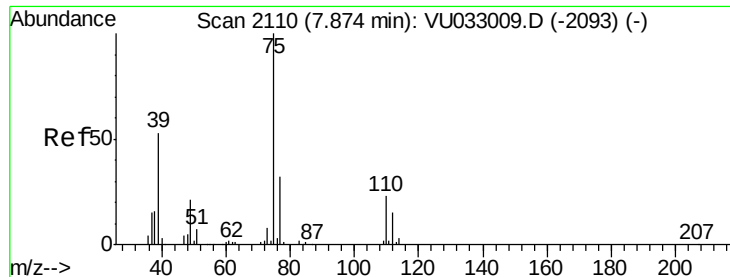
Tgt Ion: 75 Resp: 2850
 Ion Ratio Lower Upper
 75 100
 77 42.8 21.9 40.7#



#40
 4-Methyl-2-pentanone
 Concen: 0.476 ug/L
 RT: 7.56 min Scan# 2012
 Delta R.T. 0.11 min
 Lab File: VU033022.D
 Acq: 24 Jun 2019 21:46

Tgt Ion: 43 Resp: 1124
 Ion Ratio Lower Upper
 43 100
 58 175.4 29.4 44.2#
 100 12664.9 11.2 16.8#





#44

trans-1,3-Dichloropropene

Concen: 0.938 ug/L

RT: 7.84 min Scan# 2100

Delta R.T. -0.03 min

Lab File: VU033022.D

Acq: 24 Jun 2019 21:46

Instrument :

MSVOA_U

ClientSampleId :

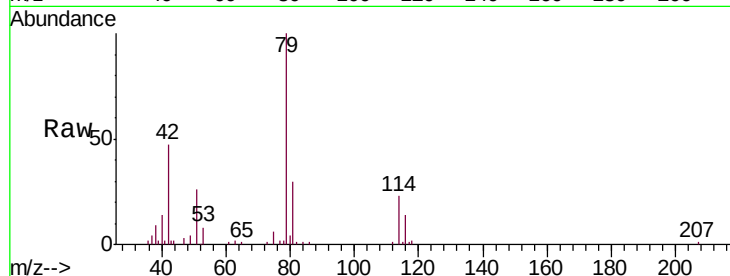
ETF07

Tgt Ion: 75 Resp: 2031

Ion Ratio Lower Upper

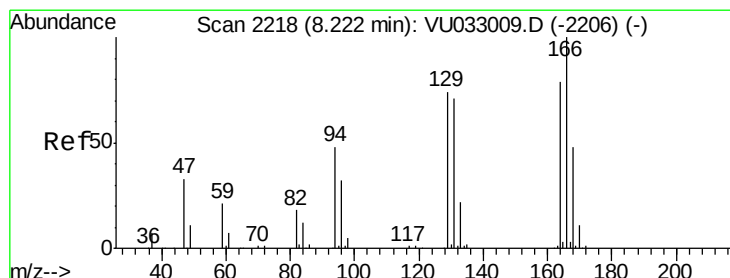
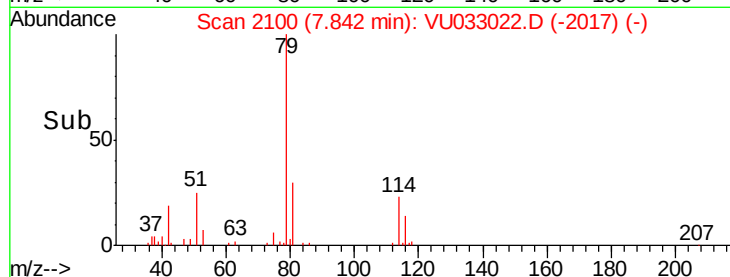
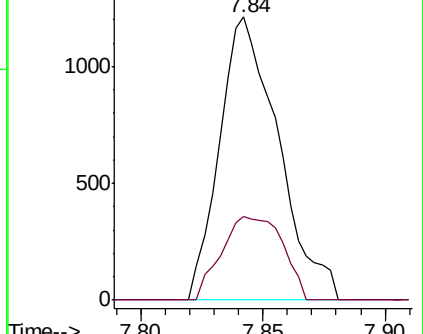
75 100

77 29.4 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU033009.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU033009.D (-2093) (-)



#46

Tetrachloroethene

Concen: 12.708 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU033022.D

Acq: 24 Jun 2019 21:46

Tgt Ion: 164 Resp: 15003

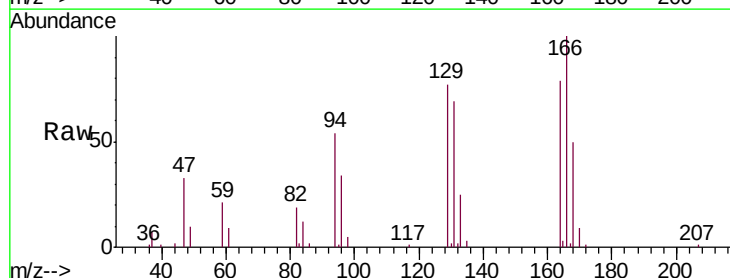
Ion Ratio Lower Upper

164 100

129 96.9 64.8 120.3

131 87.3 64.5 119.7

166 126.3 91.3 169.6

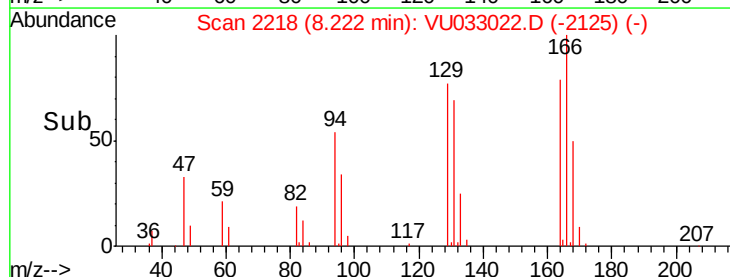
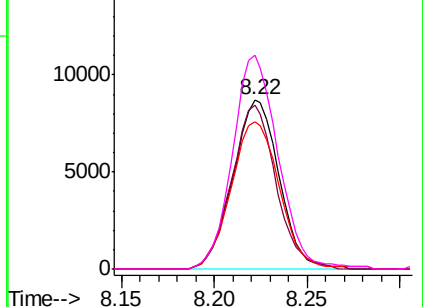


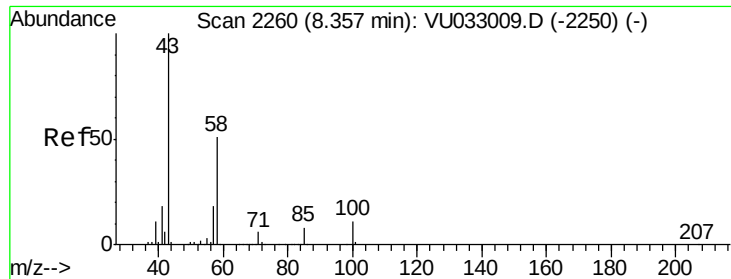
Abundance Ion 164.00 (163.70 to 164.70): VU033009.D (-2206) (-)

Ion 129.00 (128.70 to 129.70): VU033009.D (-2206) (-)

Ion 131.00 (130.70 to 131.70): VU033009.D (-2206) (-)

Ion 166.00 (165.70 to 166.70): VU033009.D (-2206) (-)

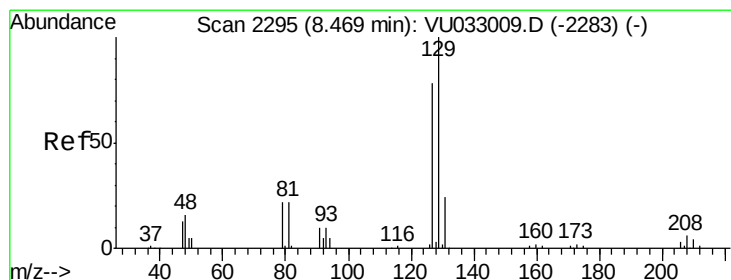
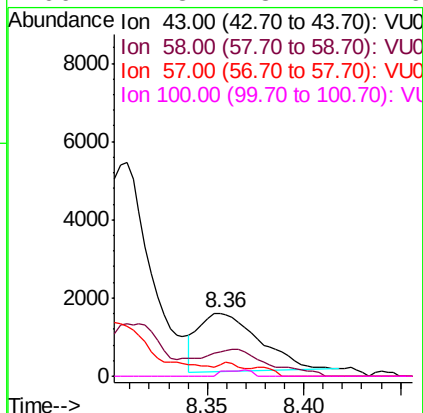
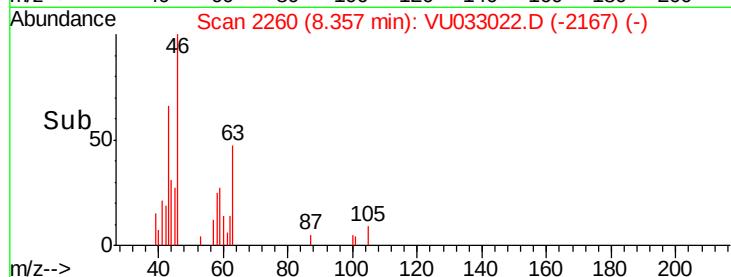
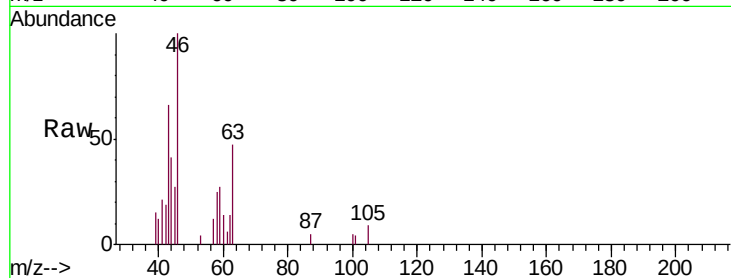




#48
2-Hexanone
Concen: 1.559 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU033022.D
Acq: 24 Jun 2019 21:46

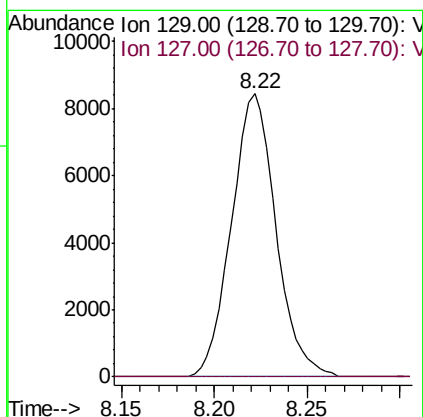
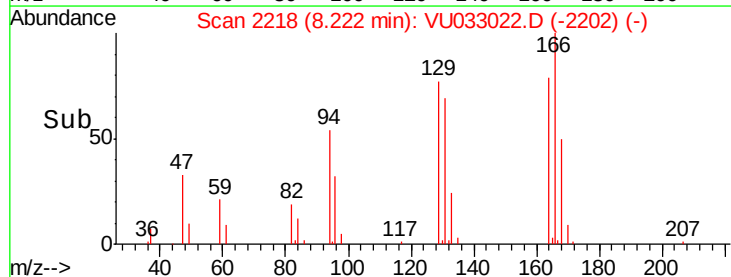
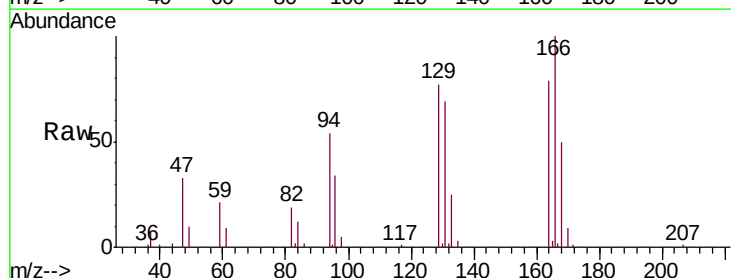
Instrument :
MSVOA_U
ClientSampleId :
ETF07

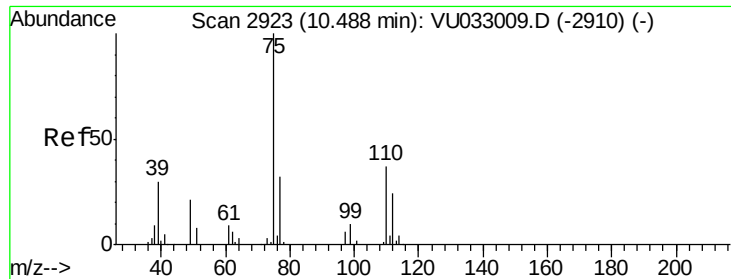
Tgt Ion: 43 Resp: 3249
Ion Ratio Lower Upper
43 100
58 43.7 40.2 60.2
57 8.2 14.2 21.4#
100 2.3 8.4 12.6#



#49
Dibromochloromethane
Concen: 8.483 ug/L
RT: 8.22 min Scan# 2218
Delta R.T. -0.25 min
Lab File: VU033022.D
Acq: 24 Jun 2019 21:46

Tgt Ion: 129 Resp: 14079
Ion Ratio Lower Upper
129 100
127 0.0 52.3 97.1#





#59

1,2,3-Trichloropropane

Concen: 5.665 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU033022.D

Acq: 24 Jun 2019 21:46

Instrument :

MSVOA_U

ClientSampleId :

ETF07

Tgt Ion: 75 Resp: 11182

Ion Ratio Lower Upper

75 100

77 40.0 25.5 38.3#

