

Data File : VU032944.D
Acq On : 21 Jun 2019 14:52
Operator : JC/SP
Sample : K3463-08MSD
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T11-MW-3-8.0-061919MSD

Quant Time: Jun 22 00:37:35 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM061719WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Jun 22 00:32:21 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	193042	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	190636	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	91467	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	50229	38.07	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	76.14%
7) Chloroethane-d5	1.67	69	45249	43.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.02%
11) 1,1-Dichloroethene-d2	2.27	63	109622	41.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.50%
21) 2-Butanone-d5	4.17	46	117156	106.69	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.69%
24) Chloroform-d	4.64	84	117373	45.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.52%
26) 1,2-Dichloroethane-d4	5.30	65	83302	48.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.52%
32) Benzene-d6	5.34	84	219769	44.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.44%
36) 1,2-Dichloropropane-d6	6.32	67	74745	47.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.42%
41) Toluene-d8	7.56	98	194476	41.79	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	83.58%
43) trans-1,3-Dichloropropene-	7.84	79	35821	43.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.00%
47) 2-Hexanone-d5	8.31	63	70899	95.91	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.91%
57) 1,1,2,2-Tetrachloroethane-	10.42	84	115466	47.18	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.36%
64) 1,2-Dichlorobenzene-d4	11.86	152	81669	46.14	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.28%

Target Compounds

						Qvalue
5) Vinyl chloride	1.40	62	1266	0.722	ug/L #	7
8) Chloroethane	1.40	64	1275	1.264	ug/L #	1
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	894	0.693	ug/L #	17
12) 1,1-Dichloroethene	2.28	96	55922	46.002	ug/L	89
13) Acetone	2.32	43	977	0.644	ug/L	79
17) trans-1,2-Dichloroethene	2.98	96	702	0.533	ug/L	95
20) cis-1,2-Dichloroethene	4.22	96	81986	57.089	ug/L	96
27) 1,2-Dichloroethane	5.38	62	2450	1.151	ug/L #	77
33) Benzene	5.38	78	266428	48.514	ug/L	100
34) Trichloroethene	6.18	95	78860	53.744	ug/L	98
35) Methylcyclohexane	6.32	83	16706	7.366	ug/L #	18
37) 1,2-Dichloropropane	6.32	63	9091	6.035	ug/L #	88
39) cis-1,3-Dichloropropene	7.22	75	2501	1.066	ug/L #	78
42) Toluene	7.63	91	286587	48.232	ug/L	99
44) trans-1,3-Dichloropropene	7.84	75	1985	0.900	ug/L	93
46) Tetrachloroethene	8.22	164	11855	9.860	ug/L	96
49) Dibromochloromethane	8.22	129	11238	6.648	ug/L #	12

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062219\
Quantitation Report (Not Reviewed)

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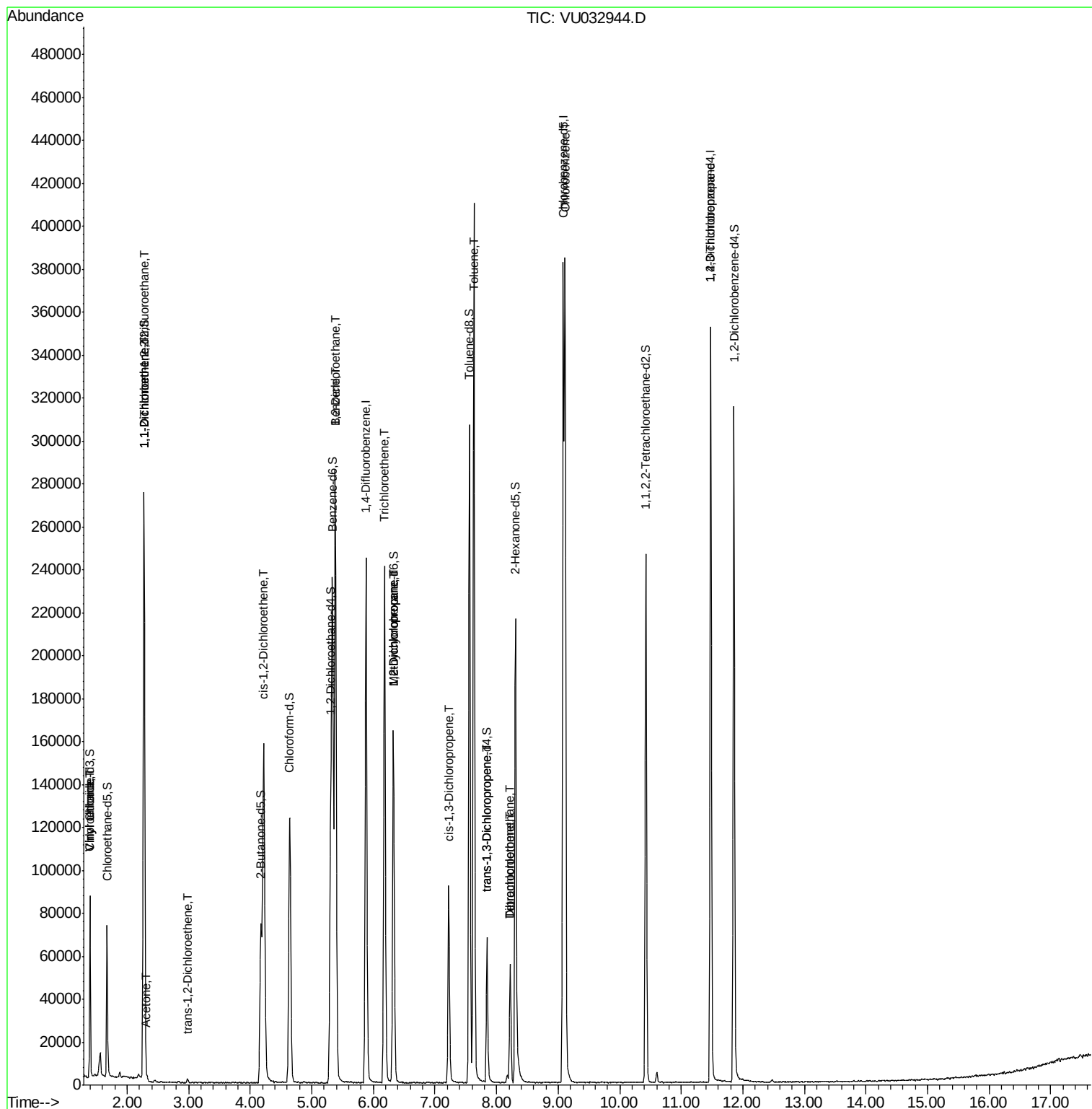
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.11	112	186298	47.646	ug/L	97
59) 1,2,3-Trichloropropane	11.48	75	11555	5.748	ug/L	89

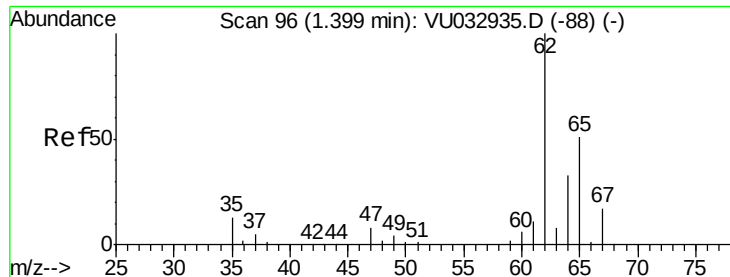
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.722 ug/L

RT: 1.40 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU032944.D

Acq: 21 Jun 2019 14:52

Instrument :

MSVOA_U

ClientSampleId :

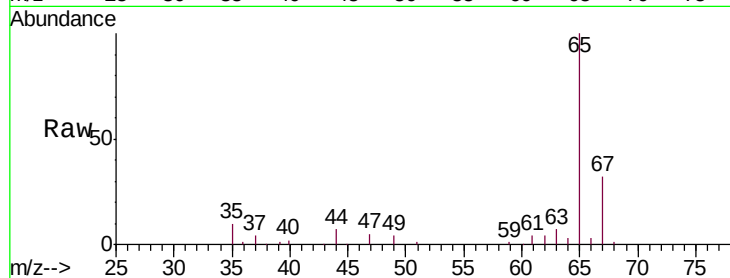
T11-MW-3-8.0-061919MSD

Tgt Ion: 62 Resp: 1266

Ion Ratio Lower Upper

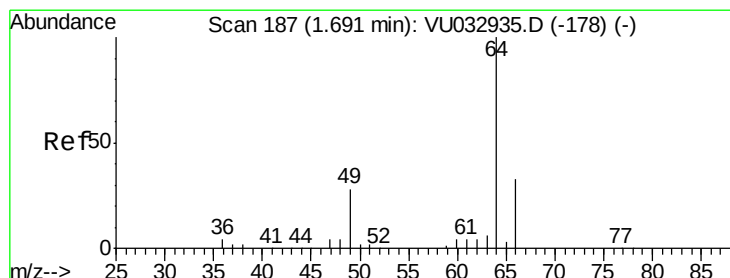
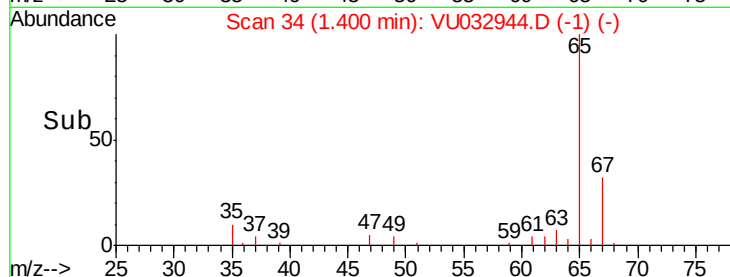
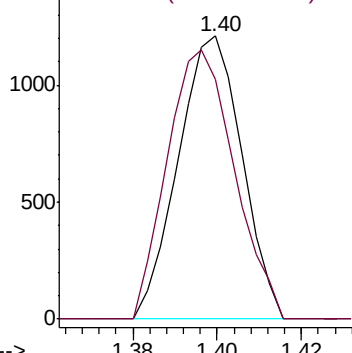
62 100

64 84.9 23.0 42.6#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#8

Chloroethane

Concen: 1.264 ug/L

RT: 1.40 min Scan# 33

Delta R.T. -0.30 min

Lab File: VU032944.D

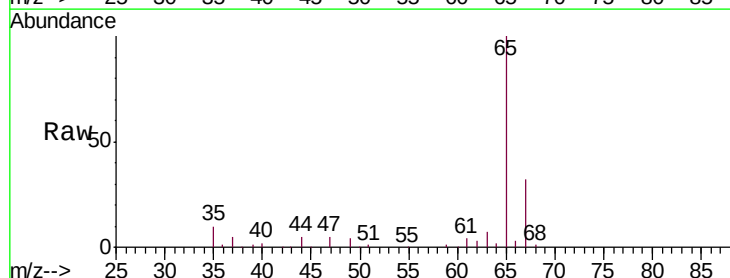
Acq: 21 Jun 2019 14:52

Tgt Ion: 64 Resp: 1275

Ion Ratio Lower Upper

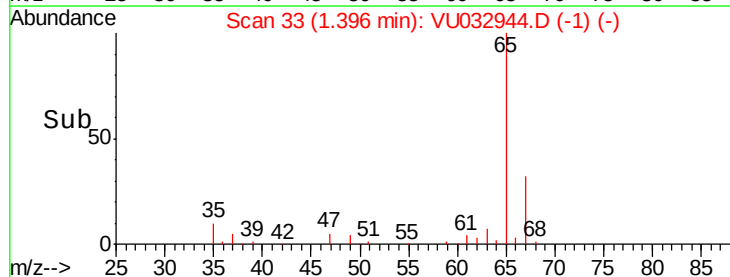
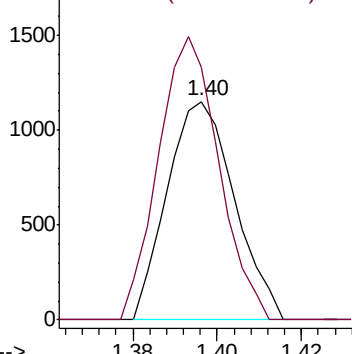
64 100

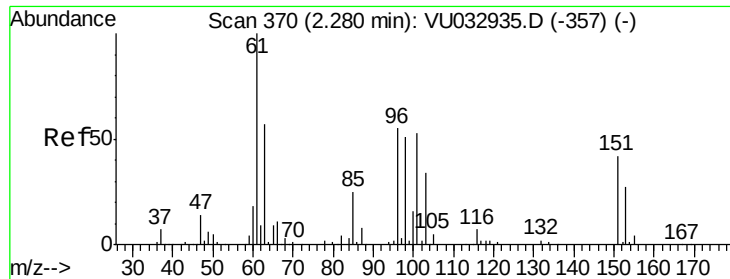
66 115.6 22.5 41.7#



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#10

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

Concen: 0.693 ug/L

RT: 2.26 min Scan# 303

Delta R.T. -0.02 min

Lab File: VU032944.D

Acq: 21 Jun 2019 14:52

Instrument :

MSVOA_U

ClientSampleId :

T11-MW-3-8.0-061919MSD

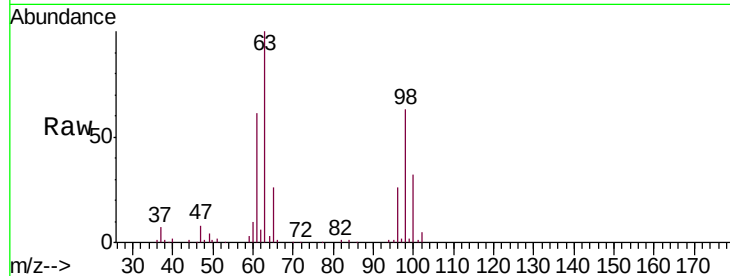
Tgt Ion: 101 Resp: 894

Ion Ratio Lower Upper

101 100

85 0.0 36.8 55.2#

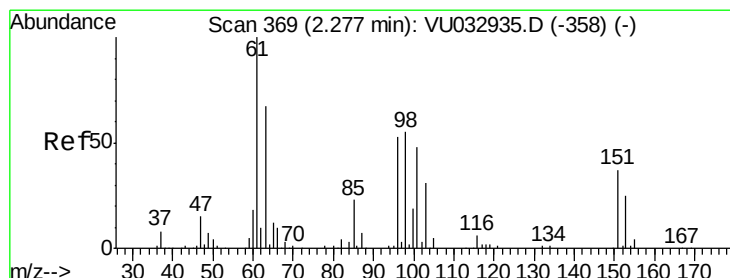
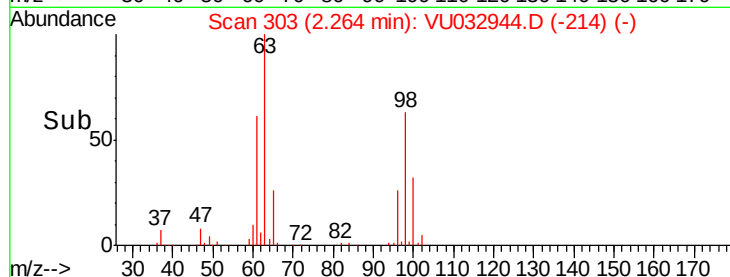
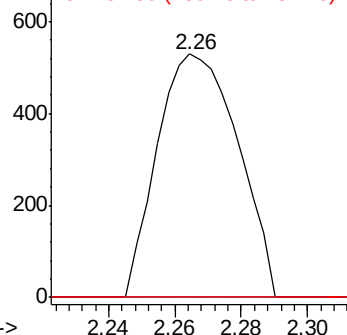
151 0.0 63.6 95.4#



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



#12

1,1-Dichloroethene

Concen: 46.002 ug/L

RT: 2.28 min Scan# 307

Delta R.T. 0.00 min

Lab File: VU032944.D

Acq: 21 Jun 2019 14:52

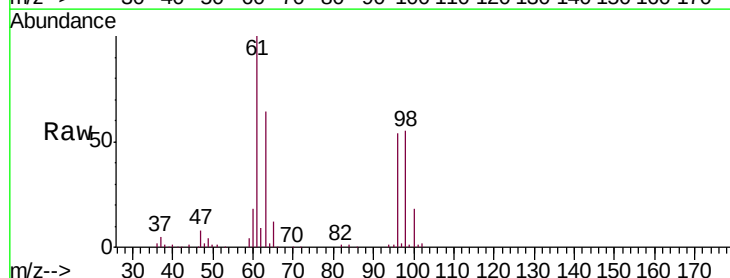
Tgt Ion: 96 Resp: 55922

Ion Ratio Lower Upper

96 100

61 183.5 131.0 243.4

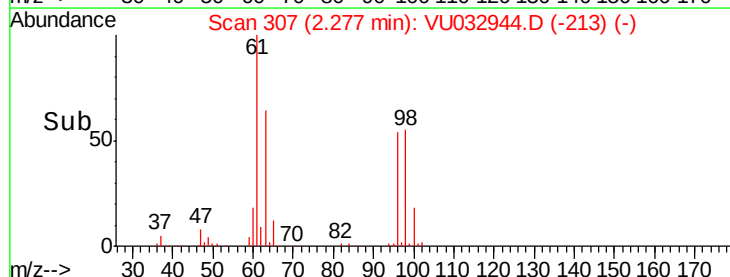
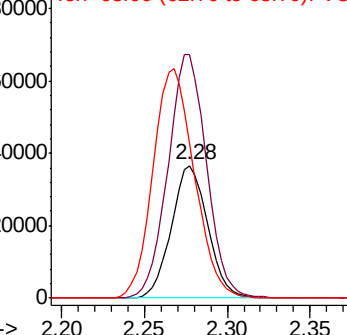
63 116.9 101.0 187.6

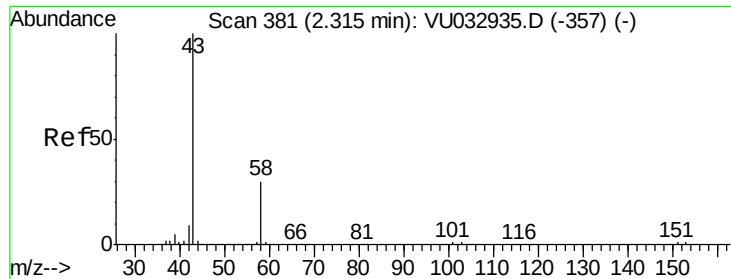


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 0.644 ug/L

RT: 2.32 min Scan# 320

Delta R.T. 0.00 min

Lab File: VU032944.D

Acq: 21 Jun 2019 14:52

Instrument :

MSVOA_U

ClientSampleId :

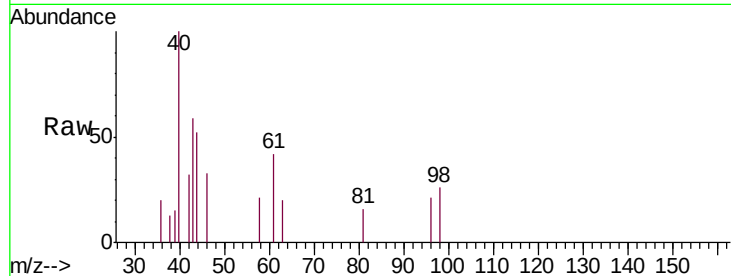
T11-MW-3-8.0-061919MSD

Tgt Ion: 43 Resp: 977

Ion Ratio Lower Upper

43 100

58 18.6 0.0 60.6



Abundance Ion 43.00 (42.70 to 43.70): VU032935.D (-357) (-)

Ion 58.00 (57.70 to 58.70): VU032935.D (-357) (-)

2.32

600

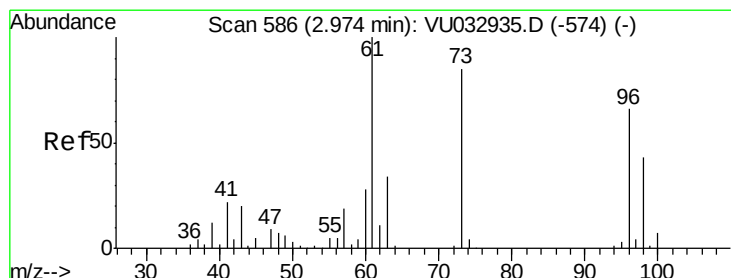
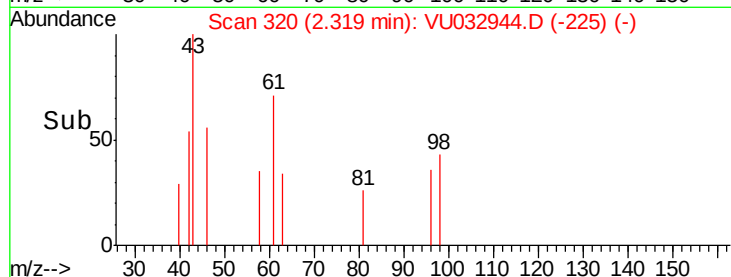
400

200

0

2.28 2.30 2.32 2.34 2.36

Time-->



#17

trans-1,2-Dichloroethene

Concen: 0.533 ug/L

RT: 2.98 min Scan# 524

Delta R.T. 0.00 min

Lab File: VU032944.D

Acq: 21 Jun 2019 14:52

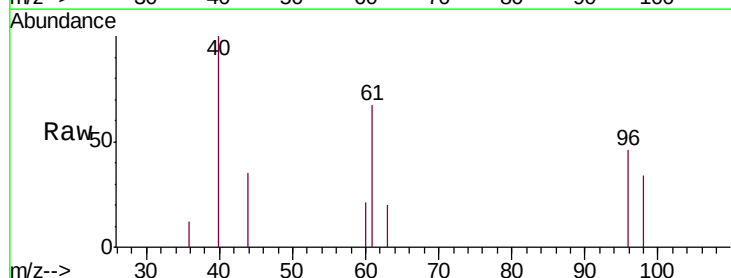
Tgt Ion: 96 Resp: 702

Ion Ratio Lower Upper

96 100

61 146.2 100.9 187.5

98 74.1 44.0 81.8



Abundance Ion 96.00 (95.70 to 96.70): VU032935.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU032935.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU032935.D (-574) (-)

2.98

600

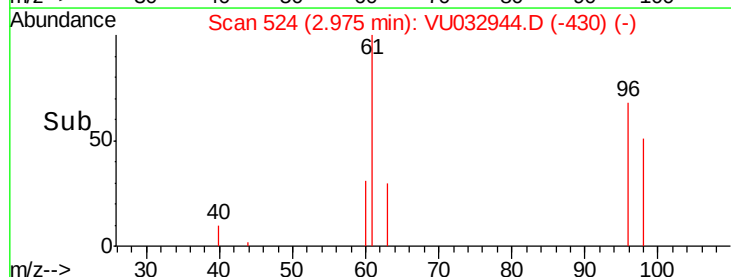
400

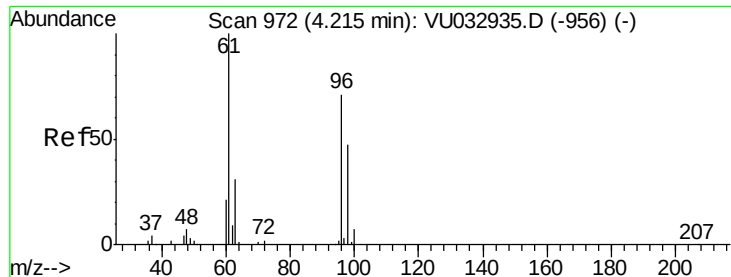
200

0

2.94 2.96 2.98 3.00

Time-->

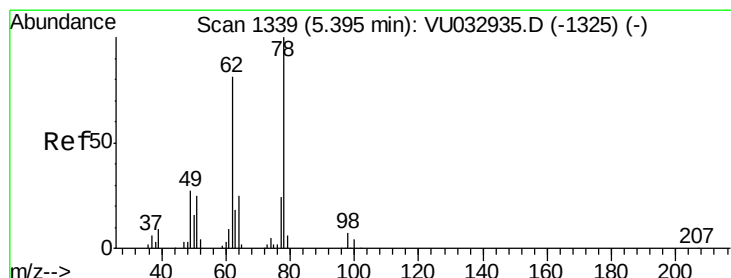
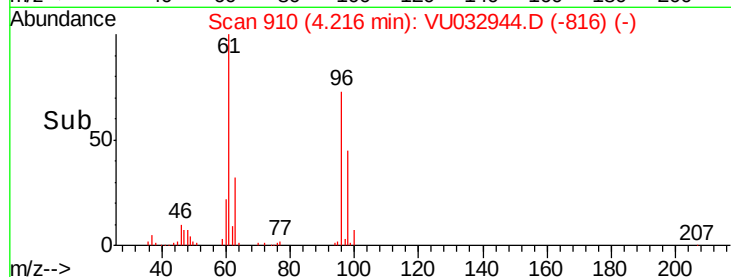
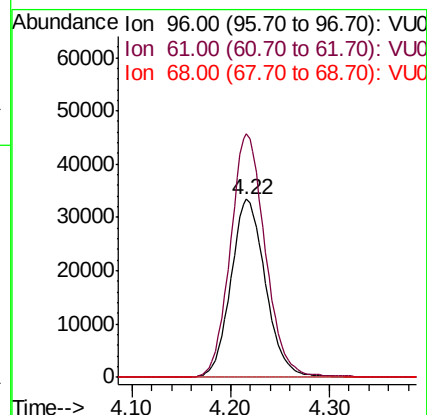
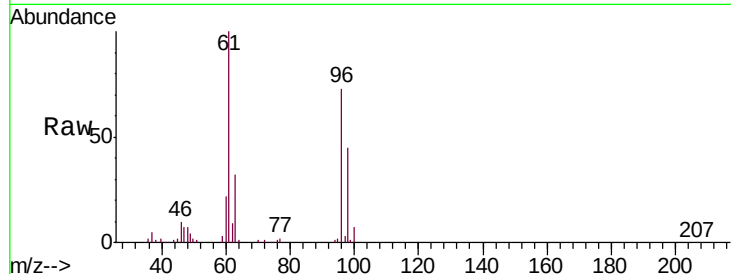




#20
 cis-1,2-Dichloroethene
 Concen: 57.089 ug/L
 RT: 4.22 min Scan# 910
 Delta R.T. 0.00 min
 Lab File: VU032944.D
 Acq: 21 Jun 2019 14:52

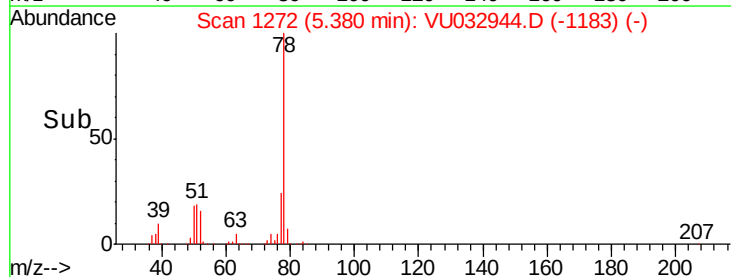
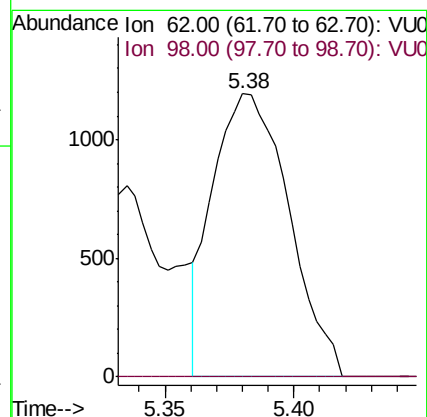
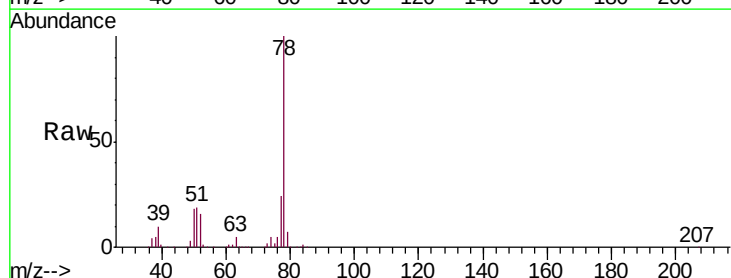
Instrument :
 MSVOA_U
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 T11-MW-3-8.0-061919MSD

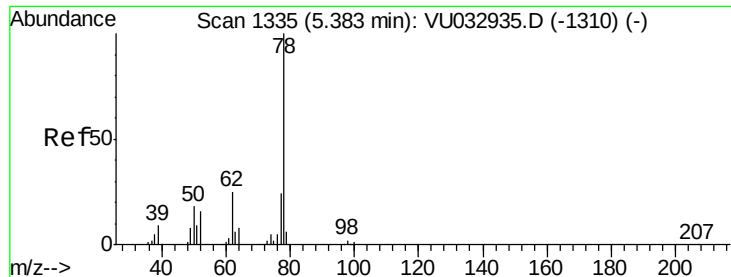
Tgt Ion: 96 Resp: 81986
 Ion Ratio Lower Upper
 96 100
 61 136.9 92.4 171.6
 68 0.0 0.0 0.0



#27
 1,2-Dichloroethane
 Concen: 1.151 ug/L
 RT: 5.38 min Scan# 1272
 Delta R.T. -0.02 min
 Lab File: VU032944.D
 Acq: 21 Jun 2019 14:52

Tgt Ion: 62 Resp: 2450
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.6 10.0#

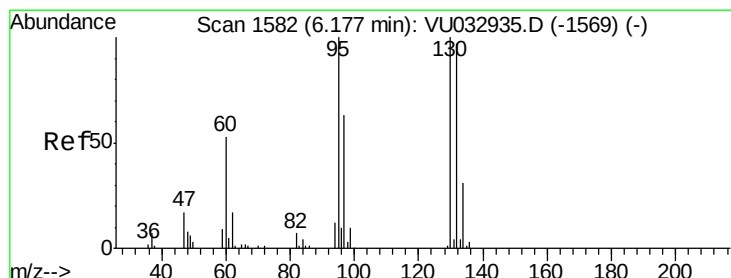
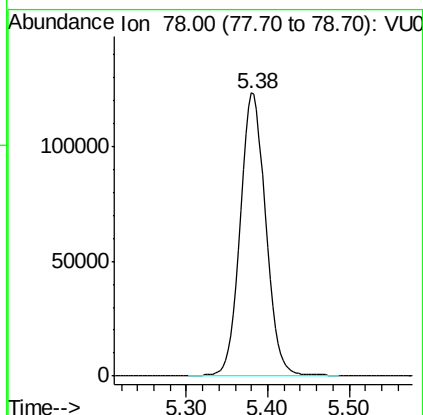
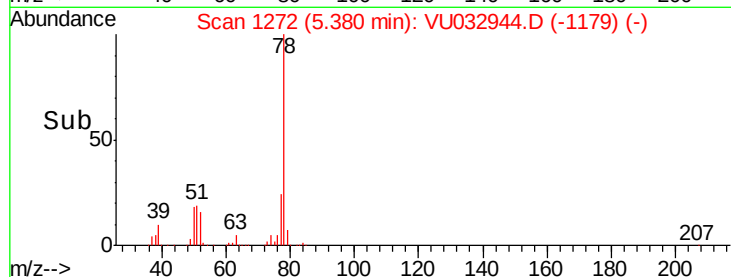
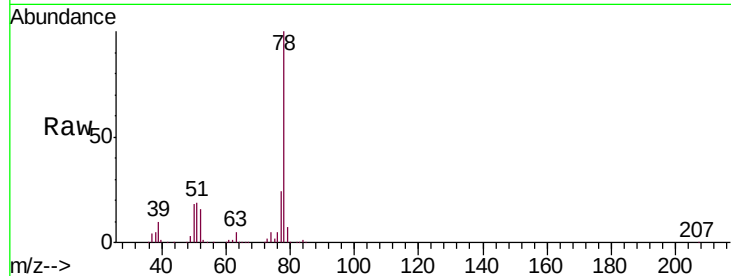




#33
Benzene
Concen: 48.514 ug/L
RT: 5.38 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VU032944.D
Acq: 21 Jun 2019 14:52

Instrument :
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ClientSampleId :
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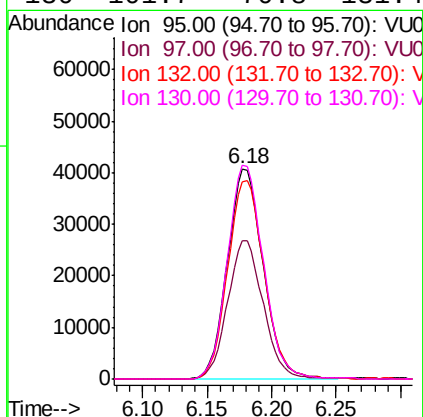
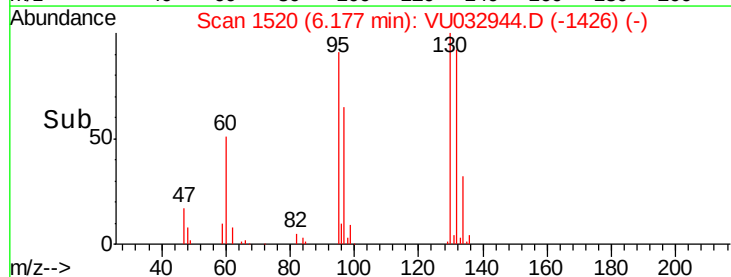
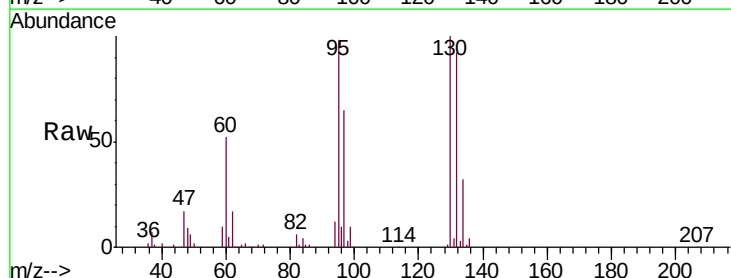
Tgt Ion: 78 Resp: 266428

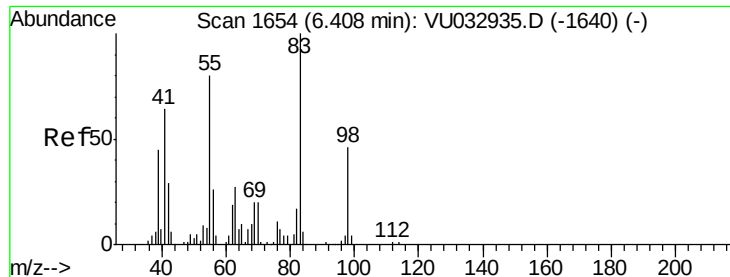


#34
Trichloroethene
Concen: 53.744 ug/L
RT: 6.18 min Scan# 1520
Delta R.T. 0.00 min
Lab File: VU032944.D
Acq: 21 Jun 2019 14:52

Tgt Ion: 95 Resp: 78860

Ion	Ratio	Lower	Upper
95	100		
97	65.6	45.9	85.3
132	93.7	68.5	127.3
130	101.7	70.8	131.4





#35

Methylcyclohexane

Concen: 7.366 ug/L

RT: 6.32 min Scan# 1565

Delta R.T. -0.09 min

Lab File: VU032944.D

Acq: 21 Jun 2019 14:52

Instrument :

MSVOA_U

ClientSampleId :

T11-MW-3-8.0-061919MSD

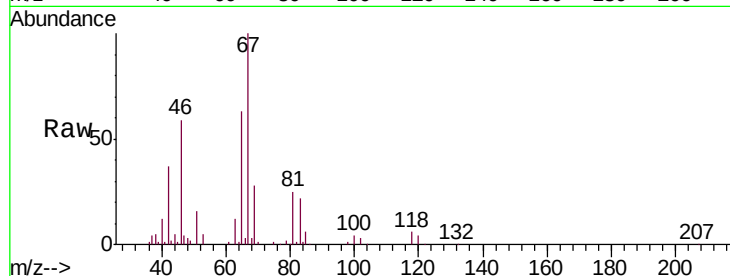
Tgt Ion: 83 Resp: 16706

Ion Ratio Lower Upper

83 100

55 0.0 62.6 94.0#

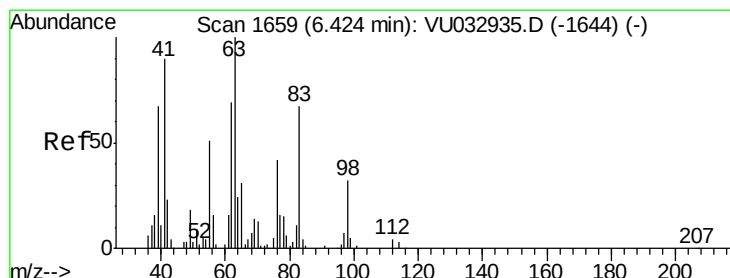
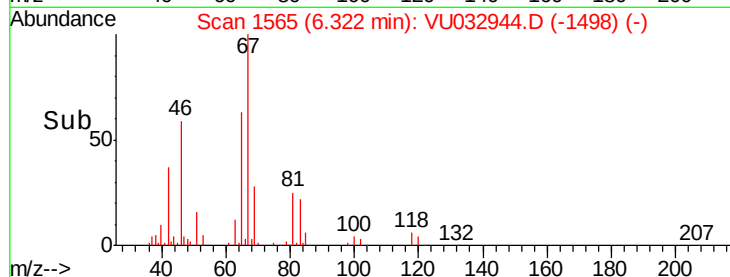
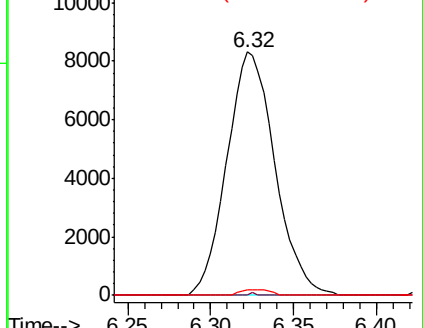
98 1.5 37.4 56.0#



Abundance Ion 83.00 (82.70 to 83.70): VU032944.D (-1565) (-)

Ion 55.00 (54.70 to 55.70): VU032944.D (-1565) (-)

Ion 98.00 (97.70 to 98.70): VU032944.D (-1565) (-)



#37

1,2-Dichloropropane

Concen: 6.035 ug/L

RT: 6.32 min Scan# 1565

Delta R.T. -0.10 min

Lab File: VU032944.D

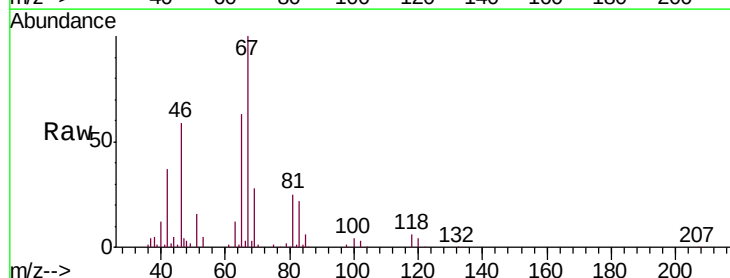
Acq: 21 Jun 2019 14:52

Tgt Ion: 63 Resp: 9091

Ion Ratio Lower Upper

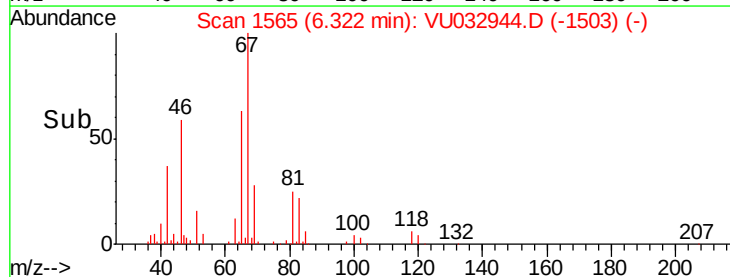
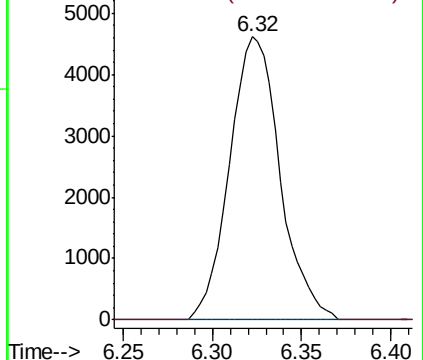
63 100

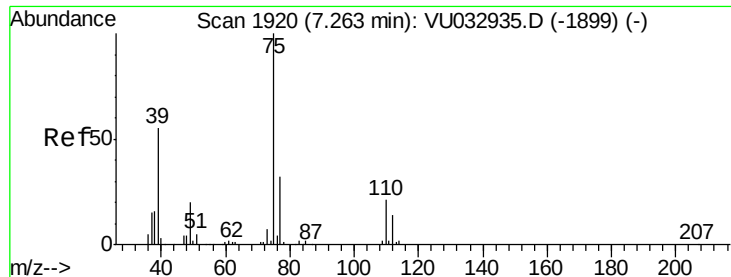
112 0.0 3.0 4.6#



Abundance Ion 63.00 (62.70 to 63.70): VU032944.D (-1565) (-)

Ion 112.00 (111.70 to 112.70): VU032944.D (-1565) (-)

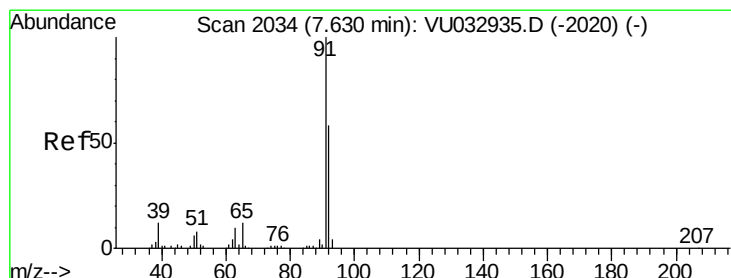
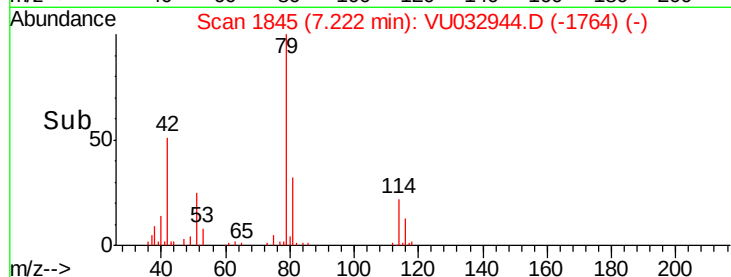
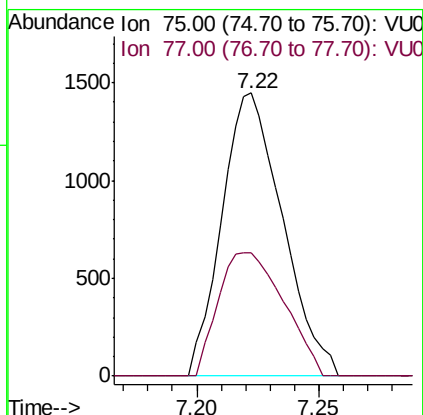
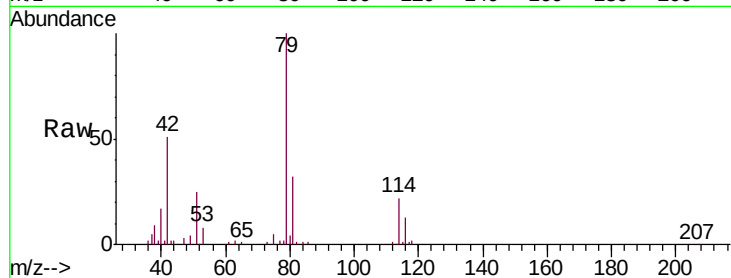




#39
 cis-1,3-Dichloropropene
 Concen: 1.066 ug/L
 RT: 7.22 min Scan# 1845
 Delta R.T. -0.04 min
 Lab File: VU032944.D
 Acq: 21 Jun 2019 14:52

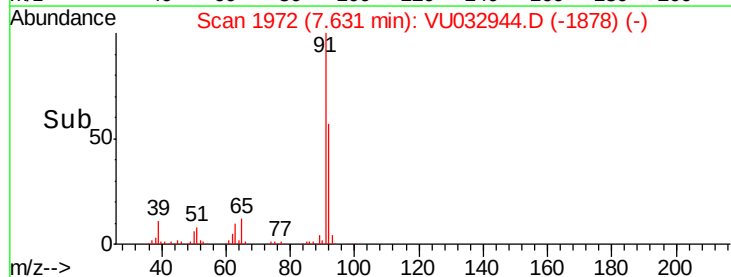
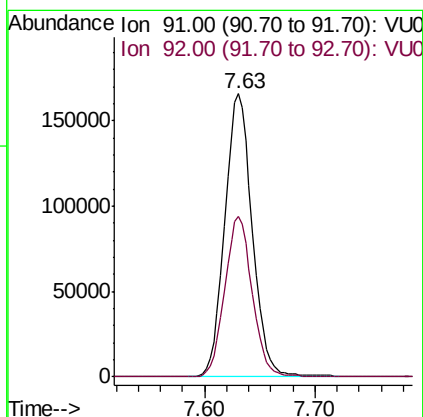
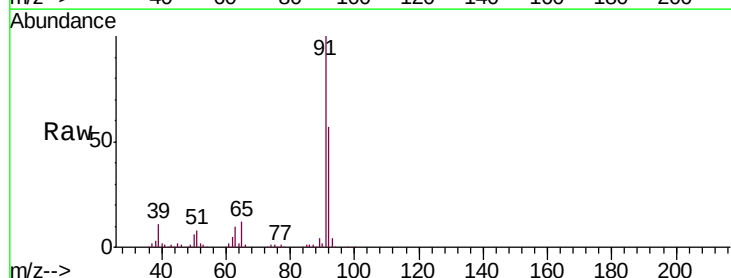
Instrument :
 MSVOA_U
 ClientSampleId :
 T11-MW-3-8.0-061919MSD

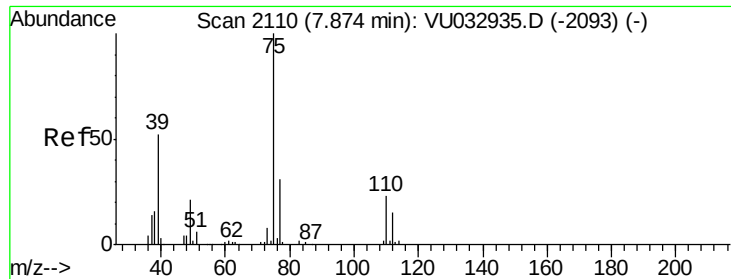
Tgt Ion: 75 Resp: 2501
 Ion Ratio Lower Upper
 75 100
 77 43.4 21.9 40.7#



#42
 Toluene
 Concen: 48.232 ug/L
 RT: 7.63 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VU032944.D
 Acq: 21 Jun 2019 14:52

Tgt Ion: 91 Resp: 286587
 Ion Ratio Lower Upper
 91 100
 92 56.8 40.4 75.0





#44

trans-1,3-Dichloropropene

Concen: 0.900 ug/L

RT: 7.84 min Scan# 2037

Delta R.T. -0.03 min

Lab File: VU032944.D

Acq: 21 Jun 2019 14:52

Instrument :

MSVOA_U

ClientSampleId :

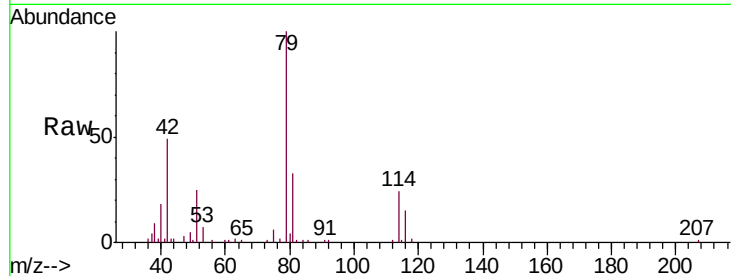
T11-MW-3-8.0-061919MSD

Tgt Ion: 75 Resp: 1985

Ion Ratio Lower Upper

75 100

77 34.9 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU032935.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU032935.D (-2093) (-)

7.84

1200

1000

800

600

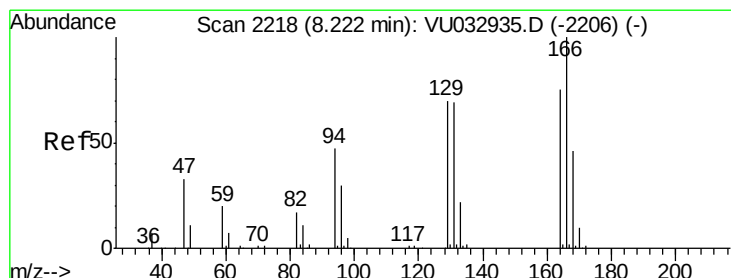
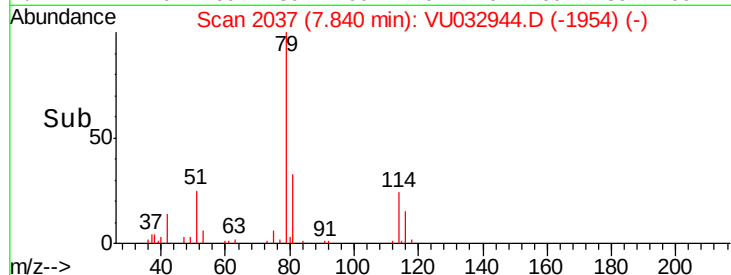
400

200

0

7.80 7.85 7.90

Time-->



#46

Tetrachloroethene

Concen: 9.860 ug/L

RT: 8.22 min Scan# 2156

Delta R.T. 0.00 min

Lab File: VU032944.D

Acq: 21 Jun 2019 14:52

Tgt Ion: 164 Resp: 11855

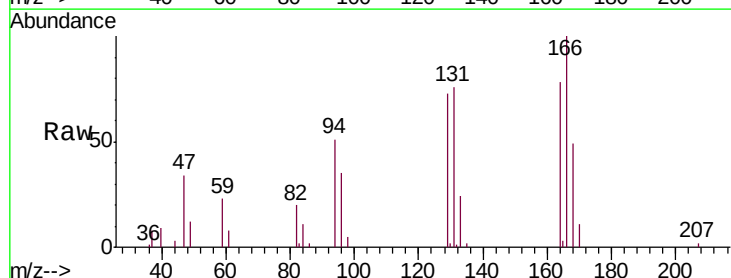
Ion Ratio Lower Upper

164 100

129 90.7 64.8 120.3

131 94.3 64.5 119.7

166 124.0 91.3 169.6



Abundance Ion 164.00 (163.70 to 164.70): VU032935.D (-2206) (-)

Ion 129.00 (128.70 to 129.70): VU032935.D (-2206) (-)

Ion 131.00 (130.70 to 131.70): VU032935.D (-2206) (-)

Ion 166.00 (165.70 to 166.70): VU032935.D (-2206) (-)

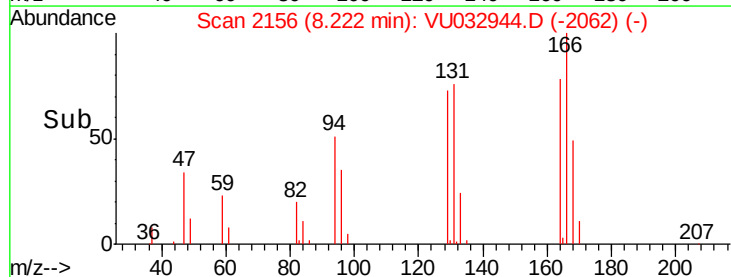
10000

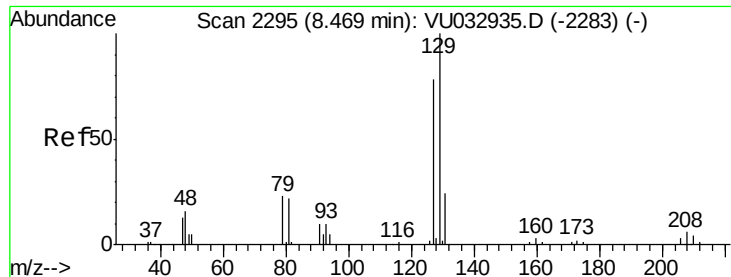
5000

0

8.15 8.20 8.25

Time-->





#49

Dibromochloromethane

Concen: 6.648 ug/L

RT: 8.22 min Scan# 2156

Delta R.T. -0.25 min

Lab File: VU032944.D

Acq: 21 Jun 2019 14:52

Instrument :

MSVOA_U

ClientSampleId :

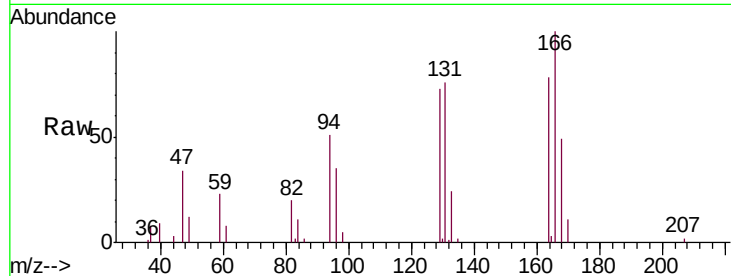
T11-MW-3-8.0-061919MSD

Tgt Ion:129 Resp: 11238

Ion Ratio Lower Upper

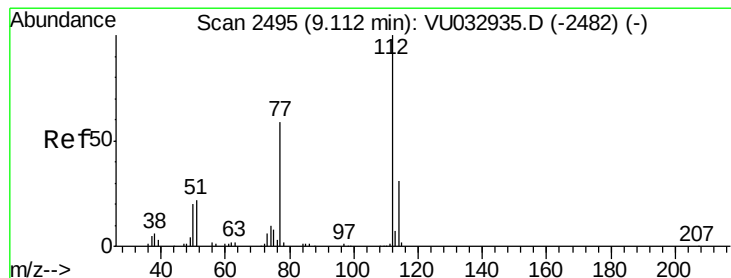
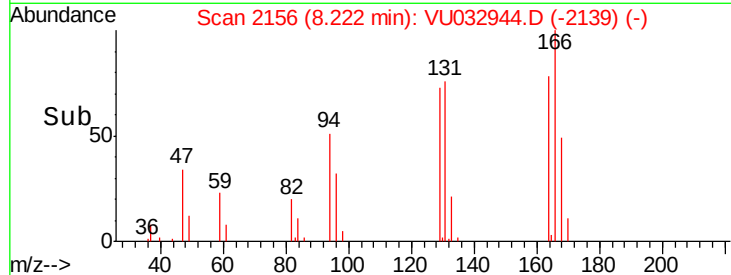
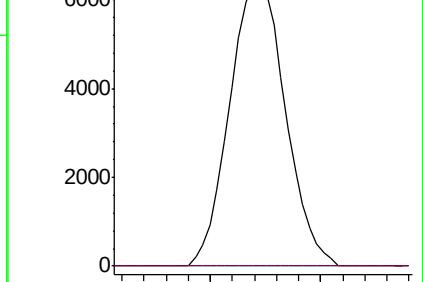
129 100

127 0.0 52.3 97.1#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#51

Chlorobenzene

Concen: 47.646 ug/L

RT: 9.11 min Scan# 2433

Delta R.T. 0.00 min

Lab File: VU032944.D

Acq: 21 Jun 2019 14:52

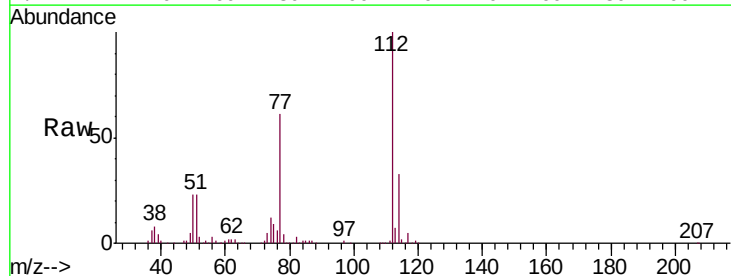
Tgt Ion:112 Resp: 186298

Ion Ratio Lower Upper

112 100

114 33.0 22.8 42.4

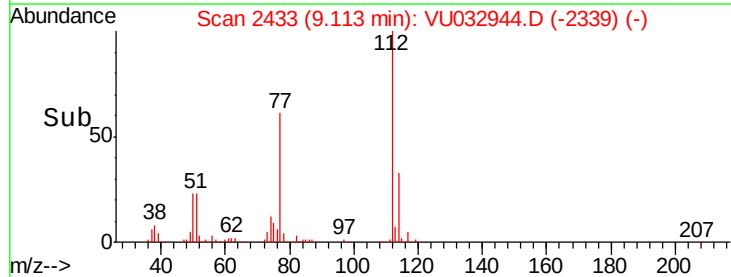
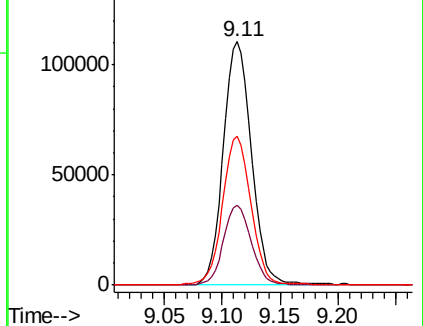
77 61.4 46.3 69.5

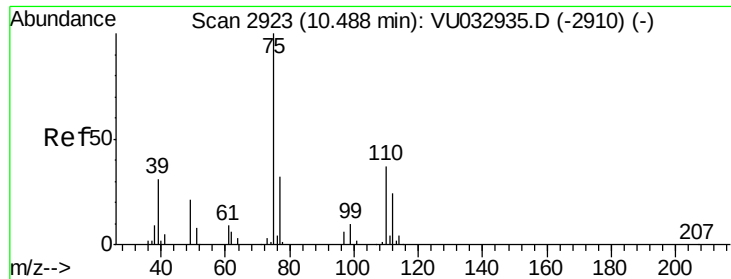


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#59

1,2,3-Trichloropropane

Concen: 5.748 ug/L

RT: 11.48 min Scan# 3169

Delta R.T. 0.99 min

Lab File: VU032944.D

Acq: 21 Jun 2019 14:52

Instrument :

MSVOA_U

ClientSampleId :

T11-MW-3-8.0-061919MSD

Tgt Ion: 75 Resp: 11555

Ion Ratio Lower Upper

75 100

77 38.2 25.5 38.3

