

Data File : VU029425.D
Acq On : 12 Feb 2019 17:19
Operator : JC/SP
Sample : K1436-13
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
ESXA6

Quant Time: Feb 13 03:30:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR021219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Feb 13 03:26:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	197853	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	184602	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	97022	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	67171	5.05	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	101.00%
7) Chloroethane-d5	1.68	69	58449	4.98	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.60%
11) 1,1-Dichloroethene-d2	2.27	63	108742	3.76	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.20%
20) 2-Butanone-d5	4.19	46	140460	50.82	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.64%
24) Chloroform-d	4.65	84	111461	5.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.40%
26) 1,2-Dichloroethane-d4	5.31	65	58607	5.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.00%
32) Benzene-d6	5.34	84	235347	5.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.00%
36) 1,2-Dichloropropane-d6	6.33	67	69431	5.29	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.80%
41) Toluene-d8	7.56	98	228211	5.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.20%
43) trans-1,3-Dichloropropene-	7.85	79	26208	4.47	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.40%
46) 2-Hexanone-d5	8.31	63	138189	51.23	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.46%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	55371	4.86	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	93700	5.24	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.80%

Target Compounds

					Qvalue
5) Vinyl chloride	1.40	62	1263	0.066 ug/L #	1
8) Chloroethane	1.71	64	1071	0.086 ug/L #	54
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	1162	0.068 ug/L #	18
12) 1,1-Dichloroethene	2.27	96	1598	0.098 ug/L #	1
13) Acetone	2.32	43	5553	2.212 ug/L	91
15) Methyl Acetate	2.45	43	10415	1.619 ug/L #	48
16) Methylene chloride	2.70	84	4212	0.230 ug/L	89
18) trans-1,2-Dichloroethene	2.98	96	1643	0.095 ug/L	98
22) cis-1,2-Dichloroethene	4.23	96	22596	1.415 ug/L	94
25) Chloroform	4.67	83	71801	2.744 ug/L	95
33) Benzene	5.39	78	16656	0.307 ug/L	100
34) Trichloroethene	6.18	95	906	0.059 ug/L	85
35) Methylcyclohexane	6.33	83	16494	0.642 ug/L #	22
37) 1,2-Dichloropropane	6.33	63	7041	0.517 ug/L #	87
38) Bromodichloromethane	6.76	83	4351	0.242 ug/L #	86
39) cis-1,3-Dichloropropene	7.23	75	1888	0.088 ug/L #	66
40) 4-Methyl-2-pentanone	7.40	43	5234	0.667 ug/L #	41

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU021219\
Quantitation Report (Not Reviewed)

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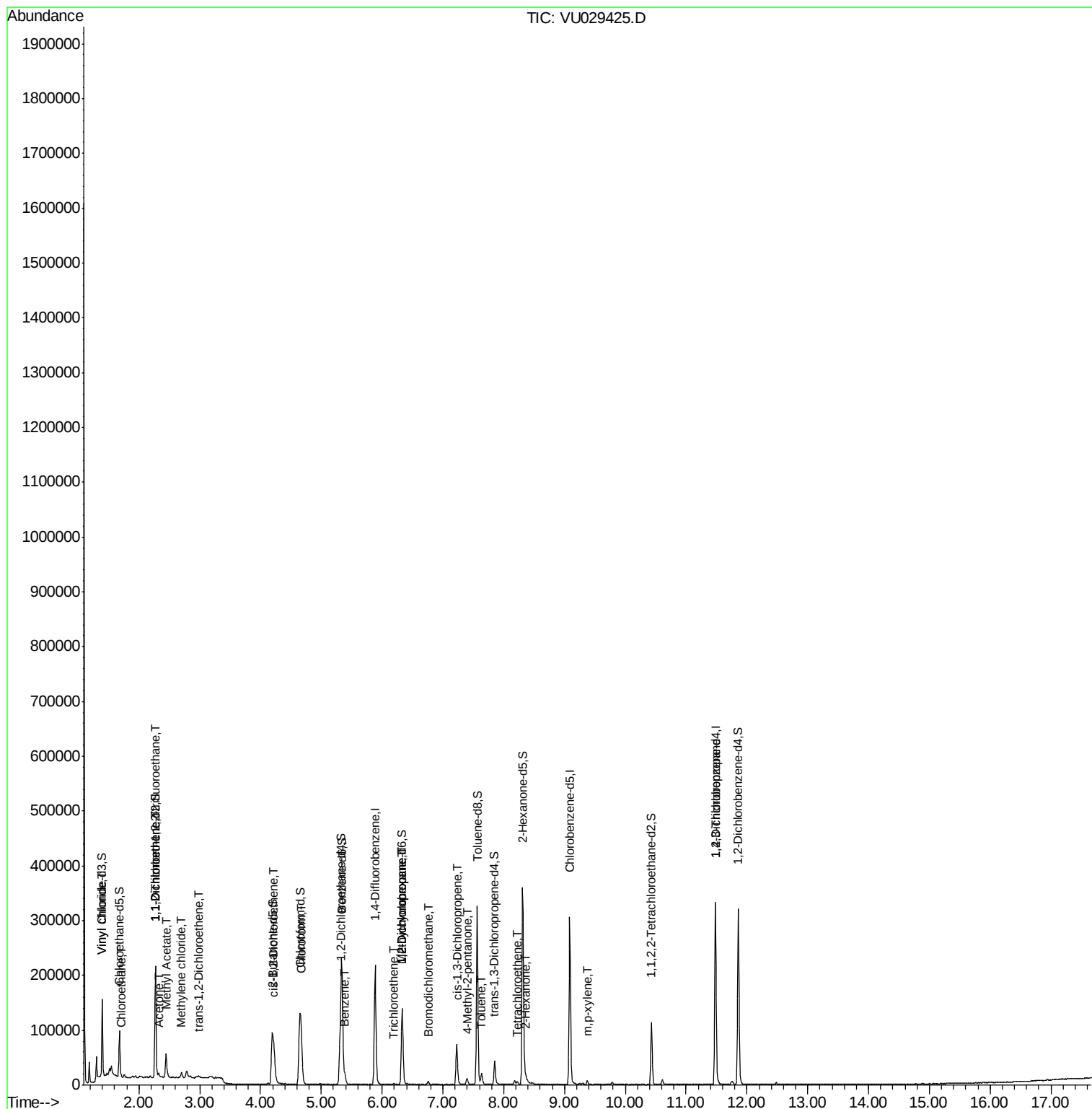
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	15269	0.250	ug/L	95
47) Tetrachloroethene	8.23	164	1109	0.079	ug/L #	70
48) 2-Hexanone	8.37	43	2269	0.397	ug/L #	37
53) m,p-xylene	9.38	106	2477	0.090	ug/L	89
59) 1,2,3-Trichloropropane	11.48	75	9403	1.077	ug/L	93

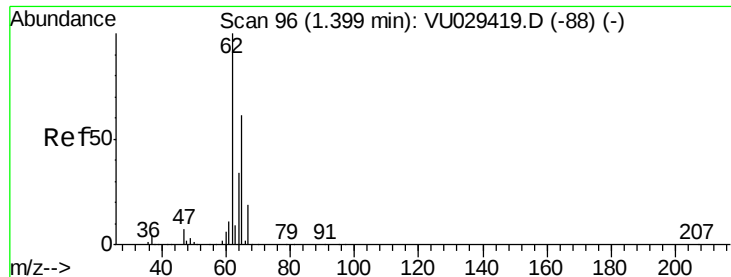
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.066 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU029425.D

Acq: 12 Feb 2019 17:19

Instrument :

MSVOA_U

ClientSampleId :

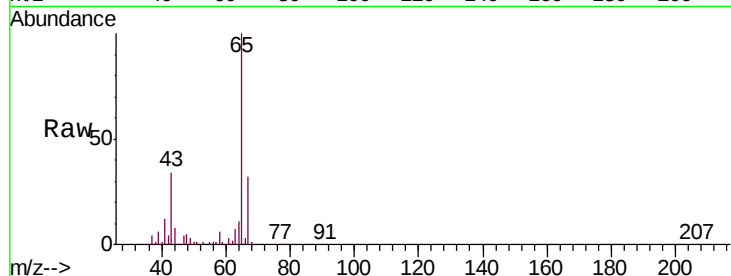
ESXA6

Tgt Ion: 62 Resp: 1263

Ion Ratio Lower Upper

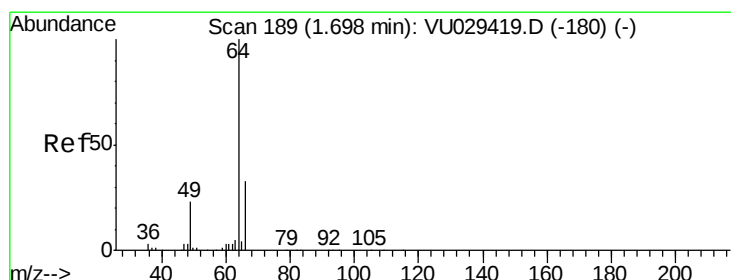
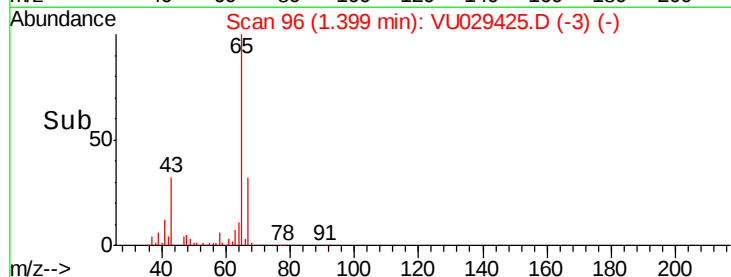
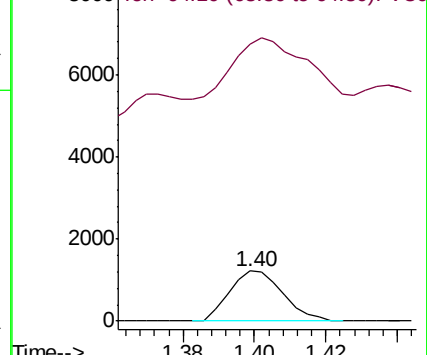
62 100

64 555.2 23.5 43.7#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#8

Chloroethane

Concen: 0.086 ug/L

RT: 1.71 min Scan# 193

Delta R.T. 0.01 min

Lab File: VU029425.D

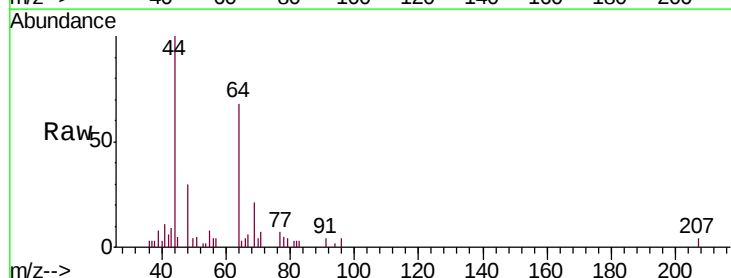
Acq: 12 Feb 2019 17:19

Tgt Ion: 64 Resp: 1071

Ion Ratio Lower Upper

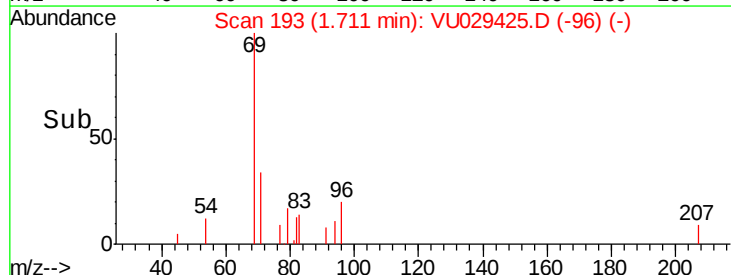
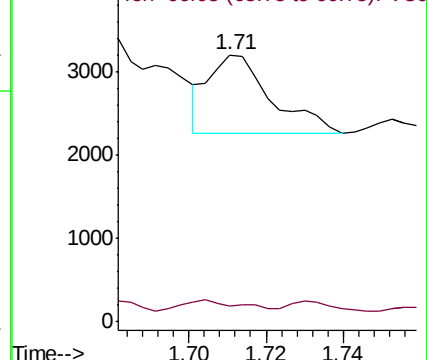
64 100

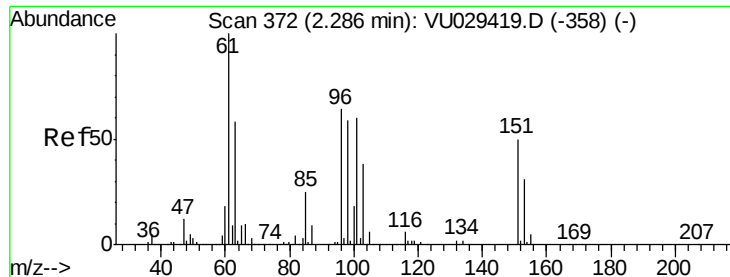
66 5.8 22.0 40.8#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#10

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

Concen: 0.068 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.02 min

Lab File: VU029425.D

Acq: 12 Feb 2019 17:19

Instrument :

MSVOA_U

ClientSampleId :

ESXA6

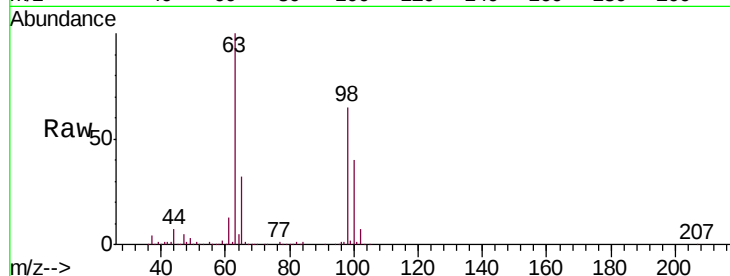
Tgt Ion: 101 Resp: 1162

Ion Ratio Lower Upper

101 100

85 4.0 35.1 52.7#

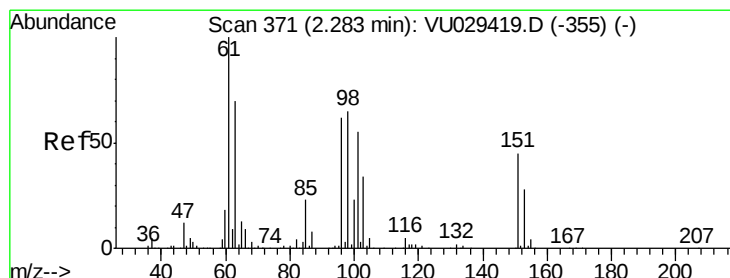
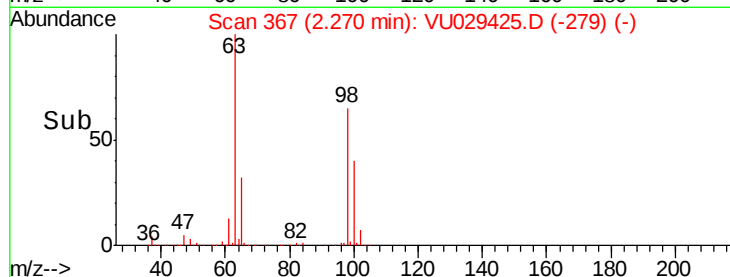
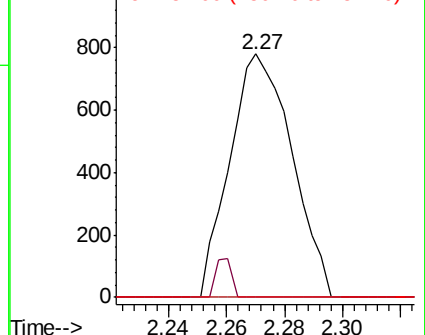
151 0.0 67.0 100.6#



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: 0.098 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU029425.D

Acq: 12 Feb 2019 17:19

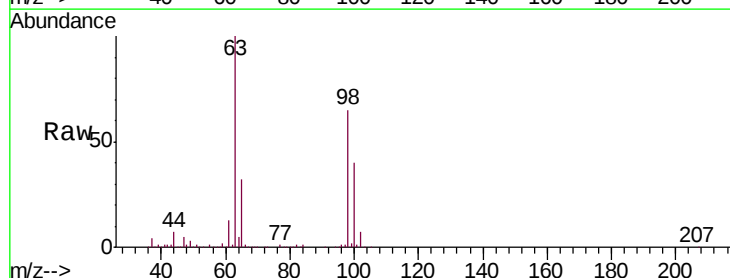
Tgt Ion: 96 Resp: 1598

Ion Ratio Lower Upper

96 100

61 1090.0 115.1 213.7#

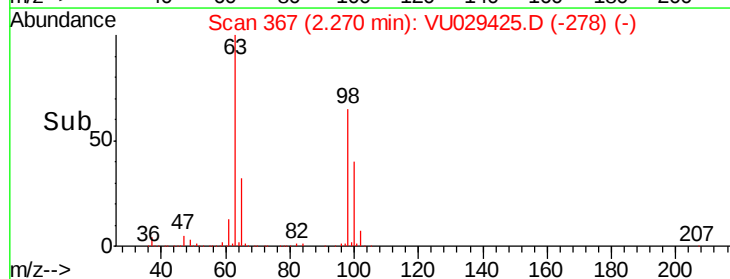
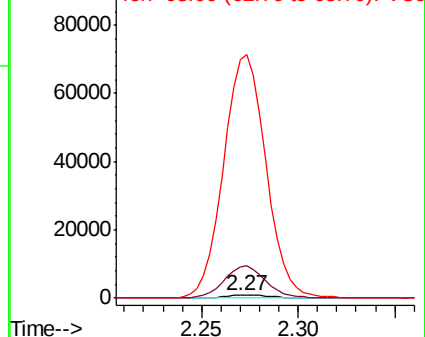
63 8394.7 83.5 155.1#

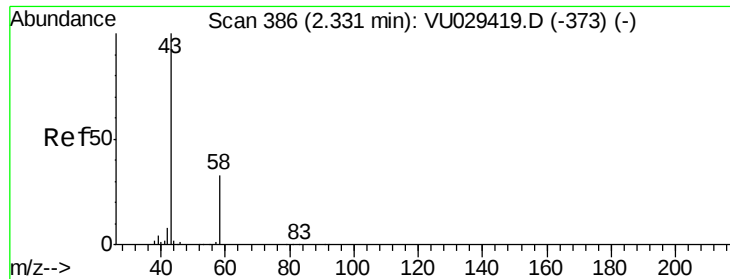


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 2.212 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.01 min

Lab File: VU029425.D

Acq: 12 Feb 2019 17:19

Instrument :

MSVOA_U

ClientSampleId :

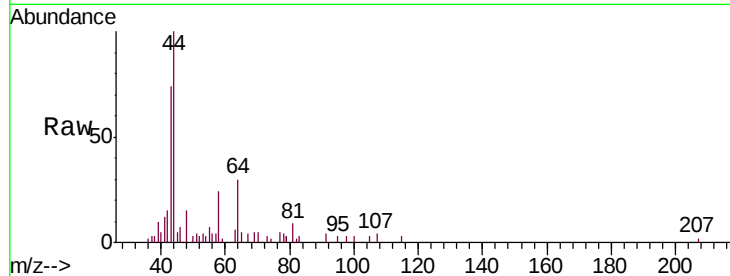
ESXA6

Tgt Ion: 43 Resp: 5553

Ion Ratio Lower Upper

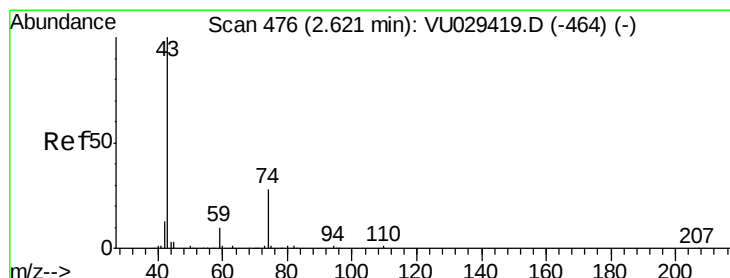
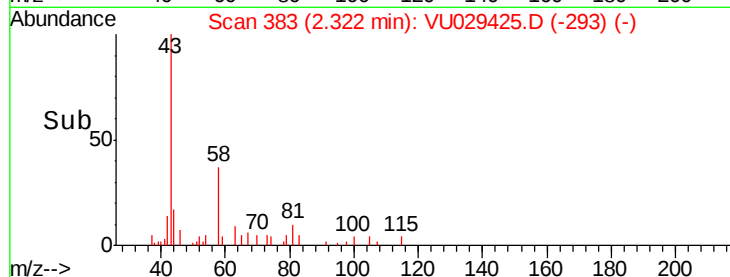
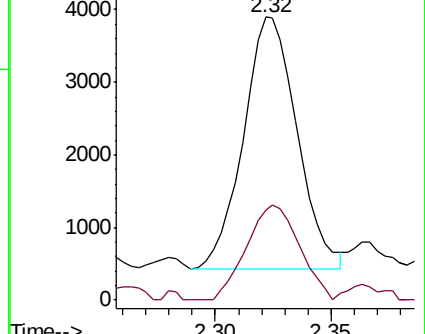
43 100

58 37.5 0.0 65.0



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#15

Methyl Acetate

Concen: 1.619 ug/L

RT: 2.45 min Scan# 422

Delta R.T. -0.17 min

Lab File: VU029425.D

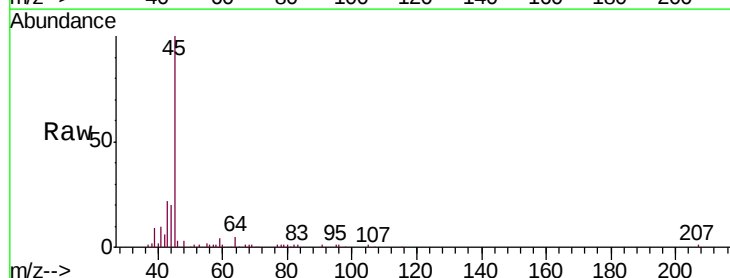
Acq: 12 Feb 2019 17:19

Tgt Ion: 43 Resp: 10415

Ion Ratio Lower Upper

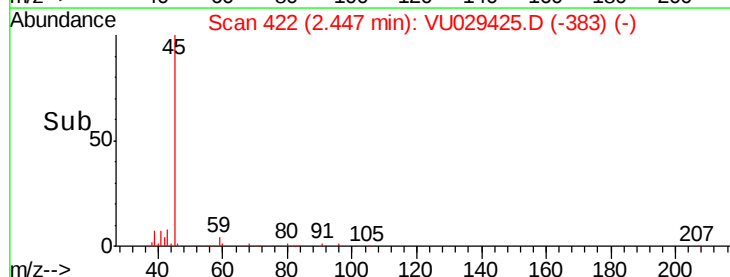
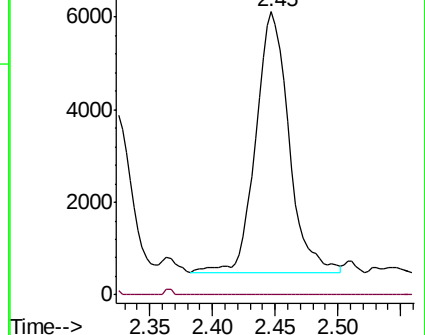
43 100

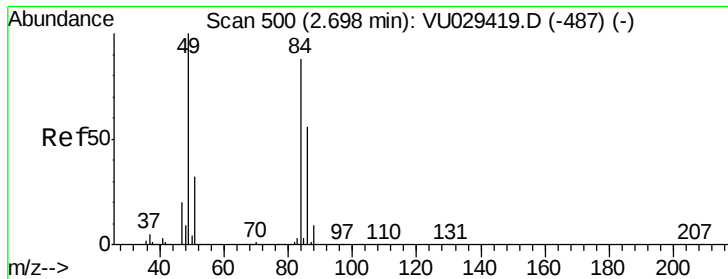
74 0.4 22.3 33.5#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

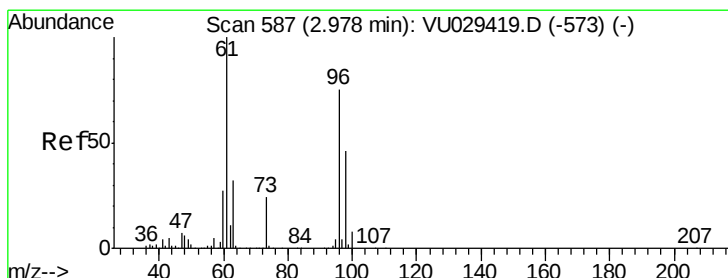
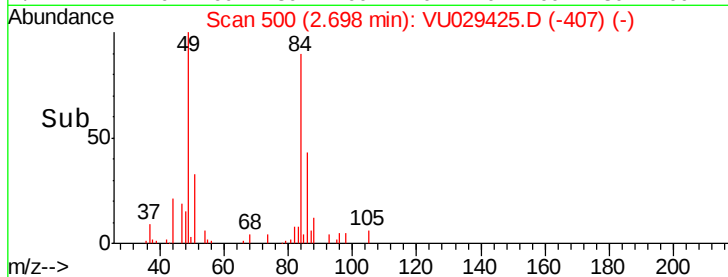
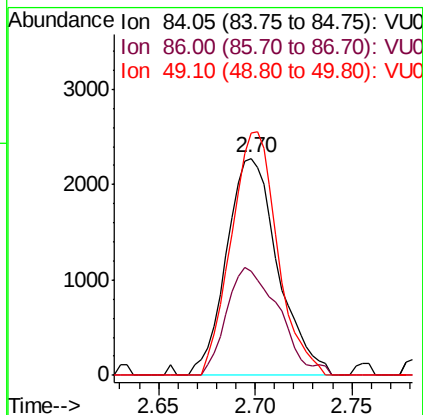
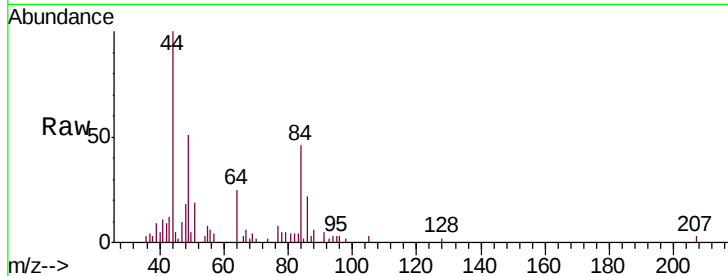




#16
Methylene chloride
Concen: 0.230 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU029425.D
Acq: 12 Feb 2019 17:19

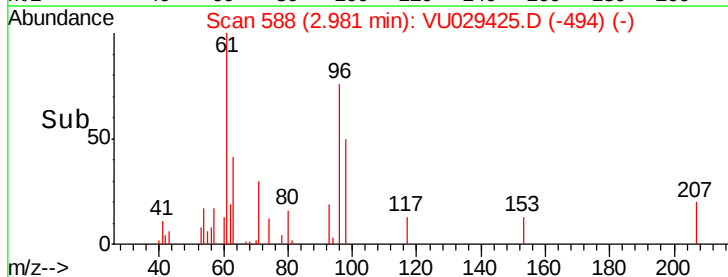
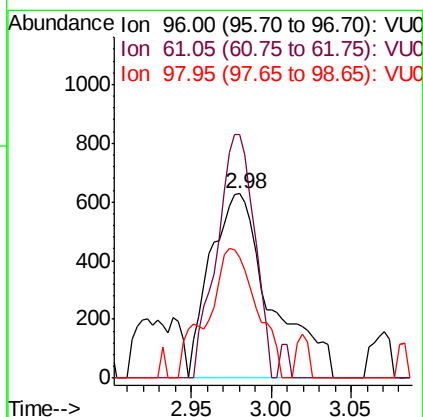
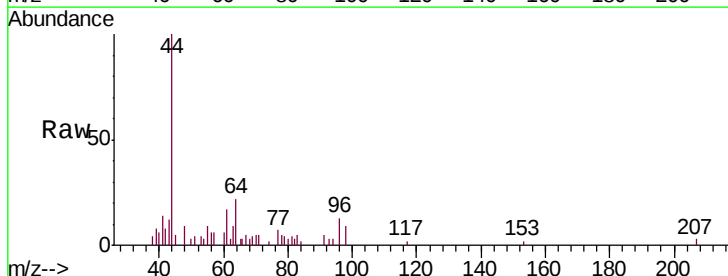
Instrument :
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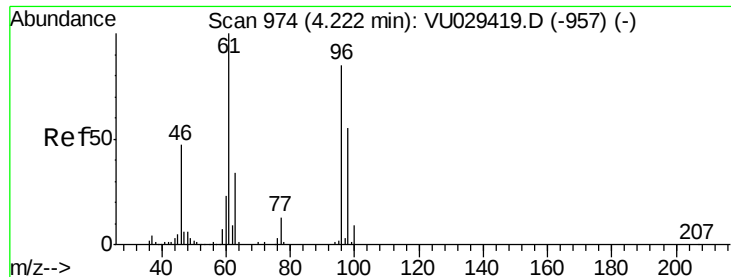
Tgt Ion: 84 Resp: 4212
Ion Ratio Lower Upper
84 100
86 47.9 45.1 83.9
49 111.5 81.8 151.8



#18
trans-1,2-Dichloroethene
Concen: 0.095 ug/L
RT: 2.98 min Scan# 588
Delta R.T. 0.00 min
Lab File: VU029425.D
Acq: 12 Feb 2019 17:19

Tgt Ion: 96 Resp: 1643
Ion Ratio Lower Upper
96 100
61 132.0 95.4 177.2
98 65.6 45.8 85.2



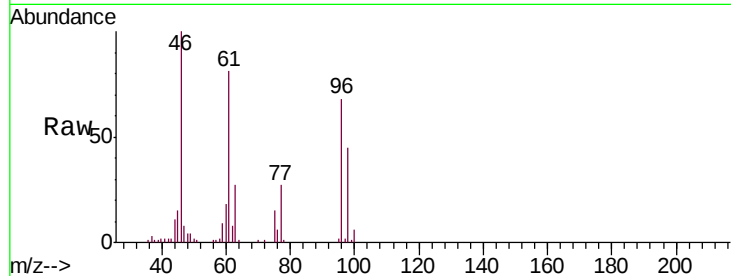


#22

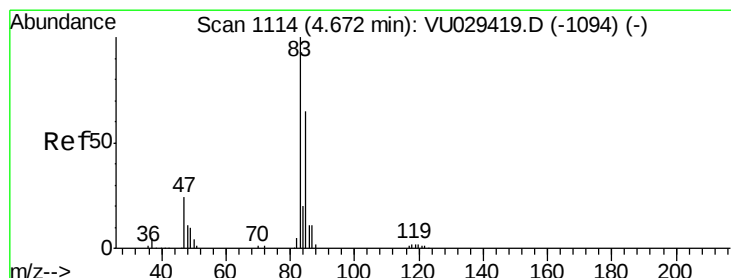
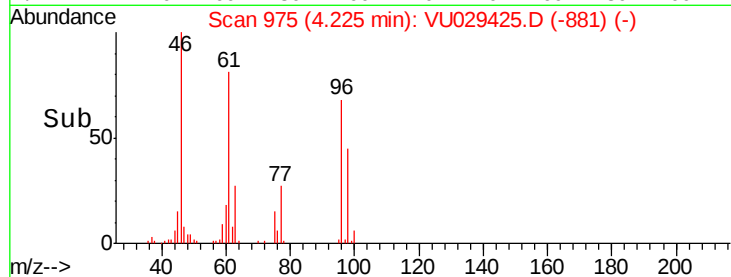
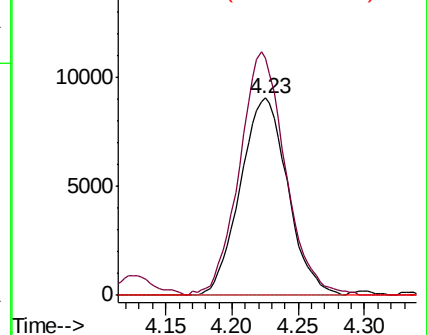
cis-1,2-Dichloroethene
 Concen: 1.415 ug/L
 RT: 4.23 min Scan# 975
 Delta R.T. 0.00 min
 Lab File: VU029425.D
 Acq: 12 Feb 2019 17:19

Instrument :
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Tgt Ion: 96 Resp: 22596
 Ion Ratio Lower Upper
 96 100
 61 120.3 79.9 148.5
 68 0.0 0.0 0.0



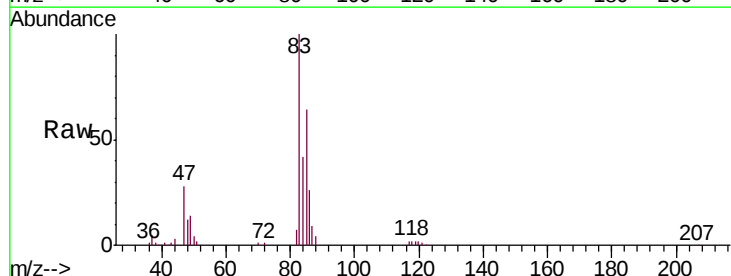
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



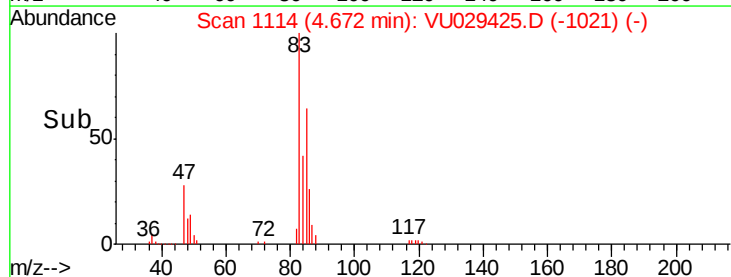
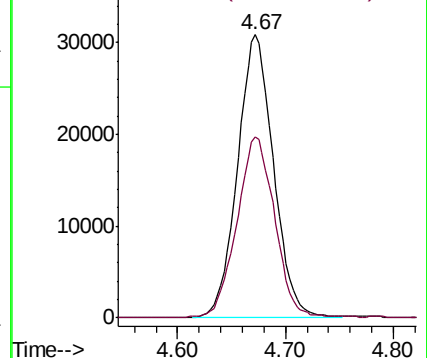
#25

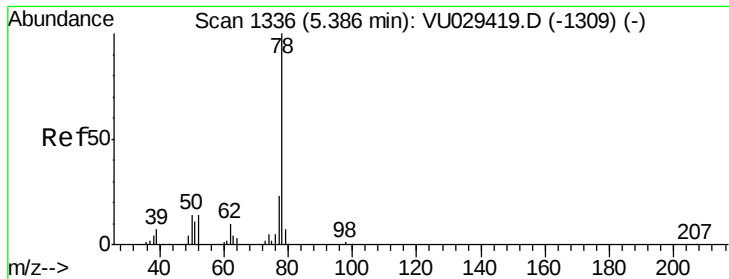
Chloroform
 Concen: 2.744 ug/L
 RT: 4.67 min Scan# 1114
 Delta R.T. -0.00 min
 Lab File: VU029425.D
 Acq: 12 Feb 2019 17:19

Tgt Ion: 83 Resp: 71801
 Ion Ratio Lower Upper
 83 100
 85 64.0 47.8 88.8



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0





#33

Benzene

Concen: 0.307 ug/L

RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU029425.D

Acq: 12 Feb 2019 17:19

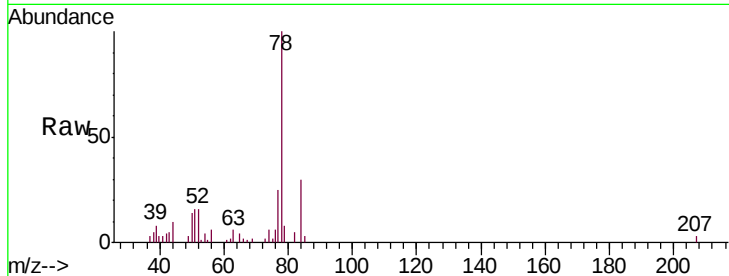
Instrument :

MSVOA_U

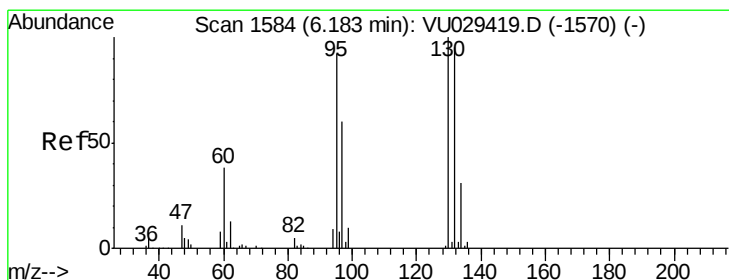
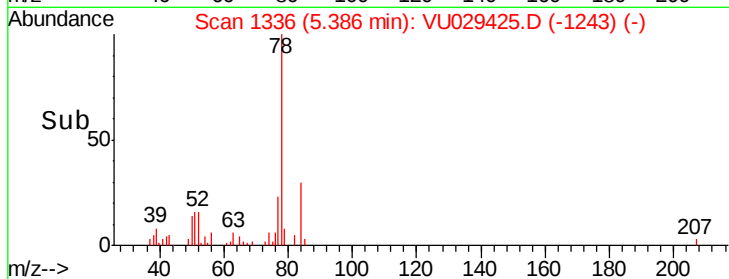
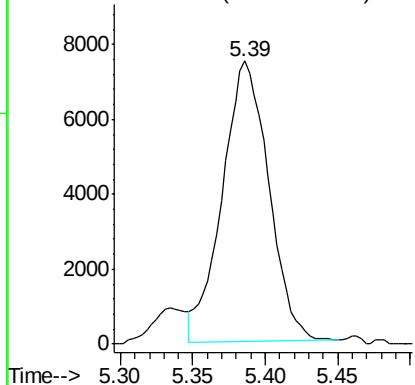
ClientSampleId :

ESXA6

Tgt Ion: 78 Resp: 16656



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.059 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU029425.D

Acq: 12 Feb 2019 17:19

Tgt Ion: 95 Resp: 906

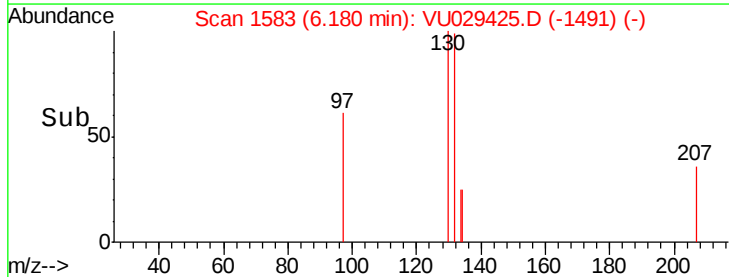
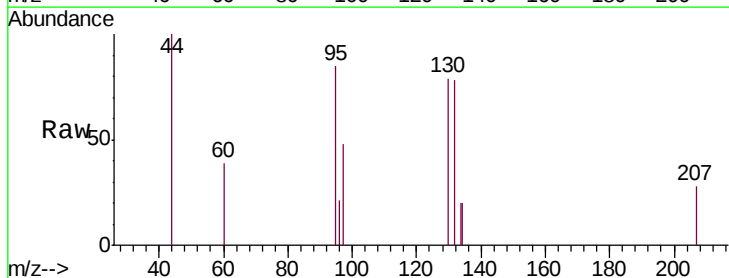
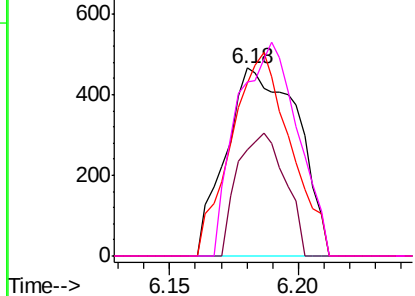
Ion	Ratio	Lower	Upper
95	100		
97	56.7	46.3	86.1
132	91.8	72.9	135.3
130	92.7	79.2	147.0

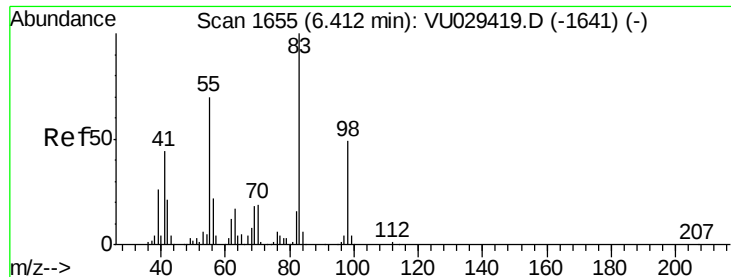
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V





#35

Methylcyclohexane

Concen: 0.642 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.08 min

Lab File: VU029425.D

Acq: 12 Feb 2019 17:19

Instrument :

MSVOA_U

ClientSampled :

ESXA6

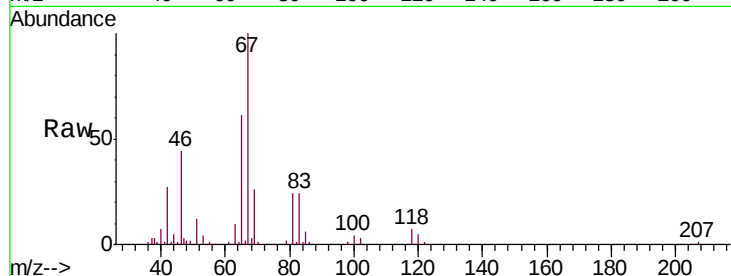
Tgt Ion: 83 Resp: 16494

Ion Ratio Lower Upper

83 100

55 1.4 55.9 83.9#

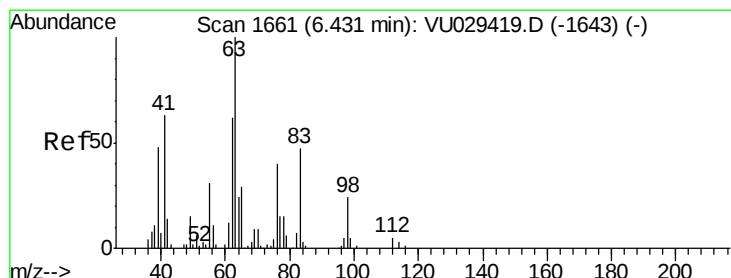
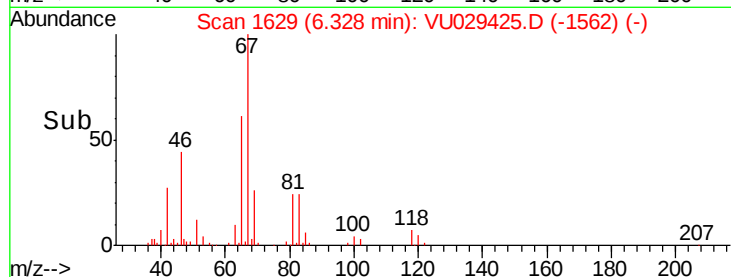
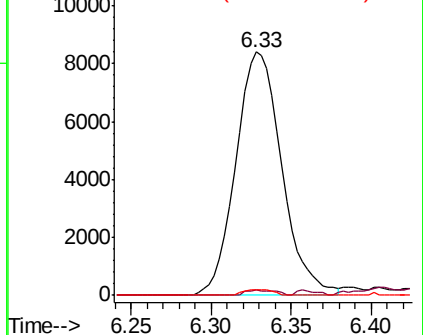
98 1.5 38.6 57.8#



Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0



#37

1,2-Dichloropropane

Concen: 0.517 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.10 min

Lab File: VU029425.D

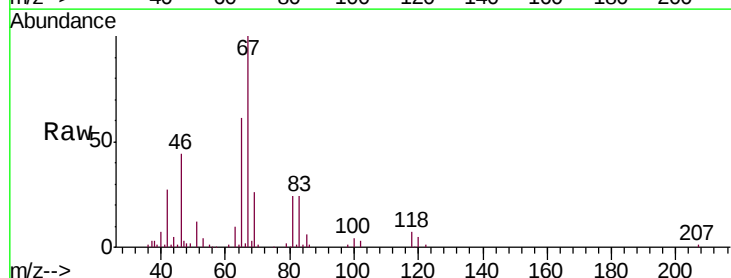
Acq: 12 Feb 2019 17:19

Tgt Ion: 63 Resp: 7041

Ion Ratio Lower Upper

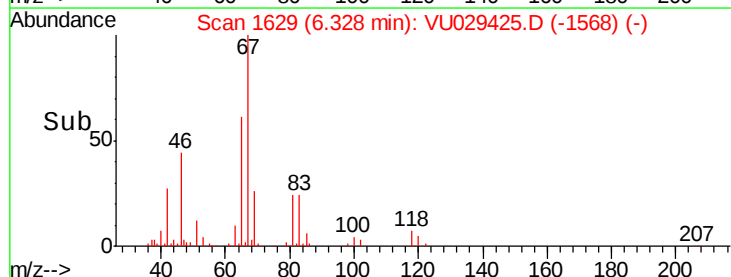
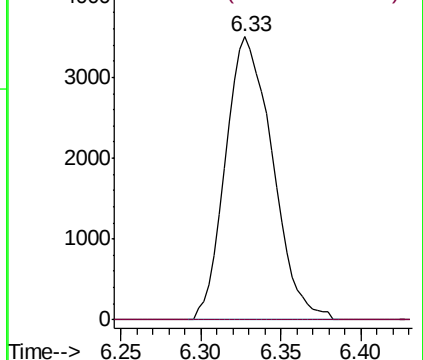
63 100

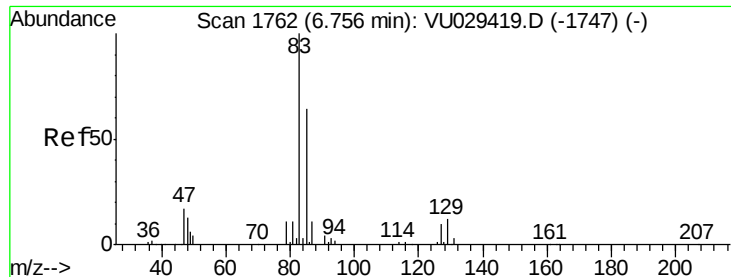
112 0.0 3.5 5.3#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V





#38

Bromodichloromethane

Concen: 0.242 ug/L

RT: 6.76 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VU029425.D

Acq: 12 Feb 2019 17:19

Instrument :

MSVOA_U

ClientSampleId :

ESXA6

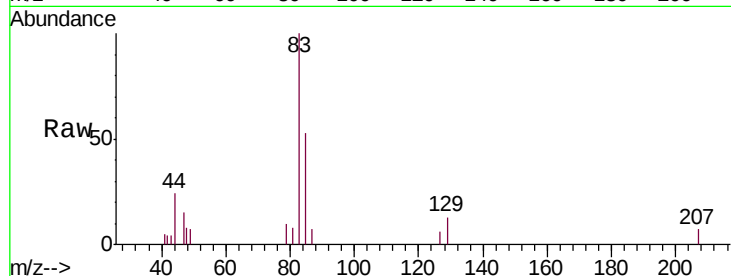
Tgt Ion: 83 Resp: 4351

Ion Ratio Lower Upper

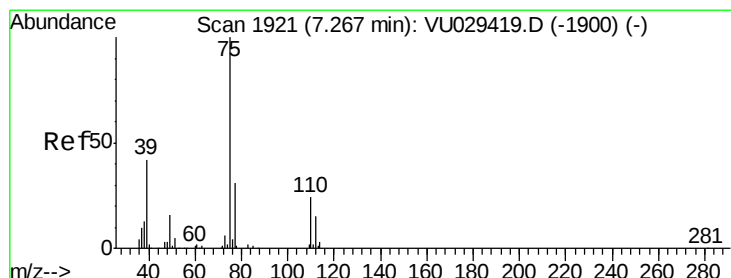
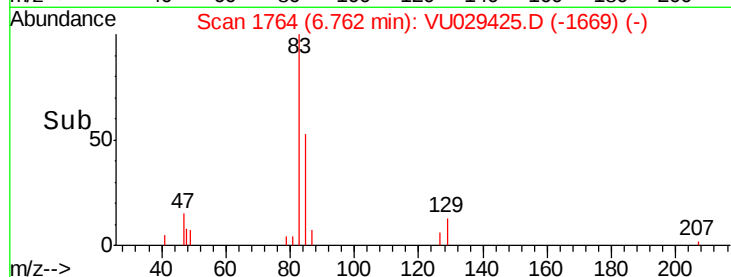
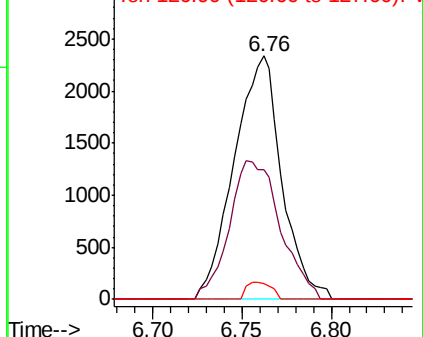
83 100

85 53.1 45.1 83.7

127 6.4 7.8 11.8#



Abundance Ion 82.95 (82.65 to 83.65): VU0
Ion 85.00 (84.70 to 85.70): VU0
Ion 126.90 (126.60 to 127.60): V



#39

cis-1,3-Dichloropropene

Concen: 0.088 ug/L

RT: 7.23 min Scan# 1909

Delta R.T. -0.04 min

Lab File: VU029425.D

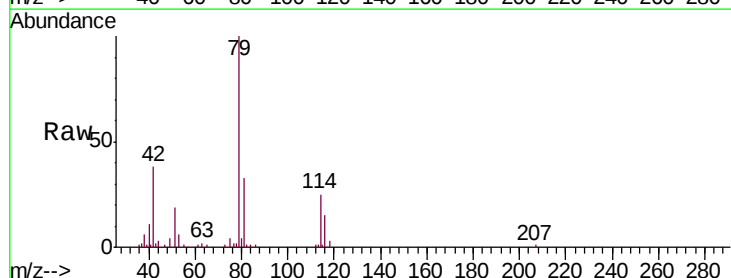
Acq: 12 Feb 2019 17:19

Tgt Ion: 75 Resp: 1888

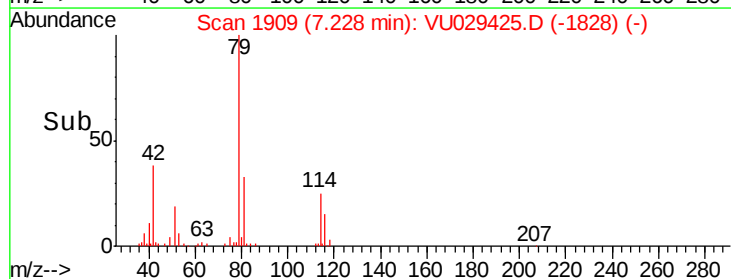
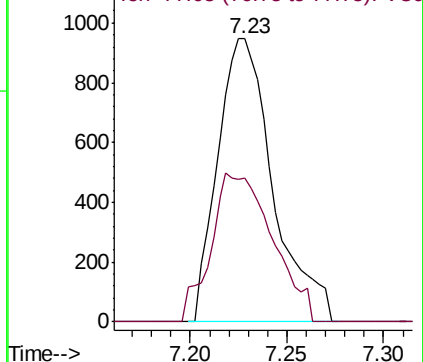
Ion Ratio Lower Upper

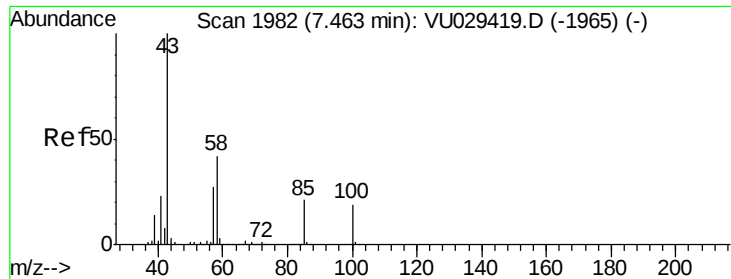
75 100

77 50.9 22.3 41.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0
Ion 77.05 (76.75 to 77.75): VU0

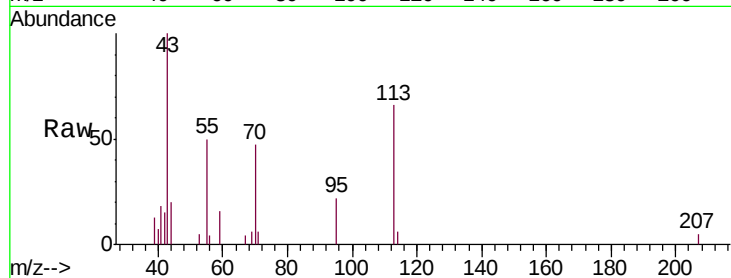




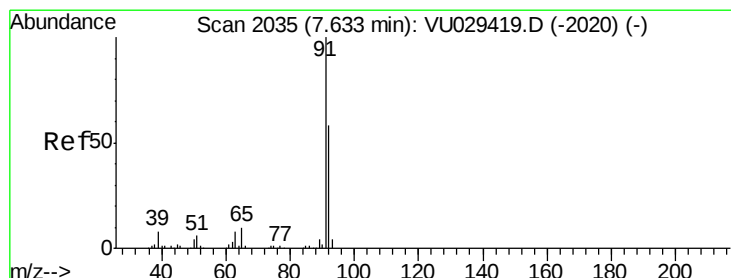
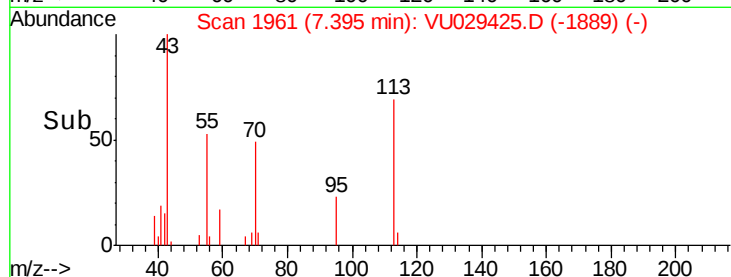
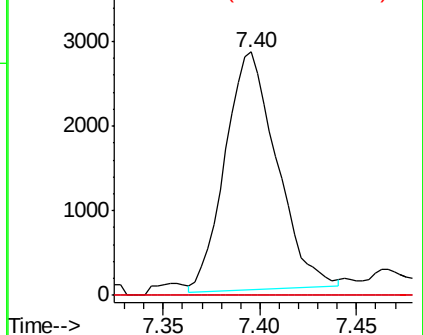
#40
 4-Methyl-2-pentanone
 Concen: 0.667 ug/L
 RT: 7.40 min Scan# 1961
 Delta R.T. -0.07 min
 Lab File: VU029425.D
 Acq: 12 Feb 2019 17:19

Instrument :
 MSVOA_U
 ClientSampleId :
 ESXA6

Tgt Ion: 43 Resp: 5234
 Ion Ratio Lower Upper
 43 100
 58 0.0 33.4 50.2#
 100 0.0 14.4 21.6#

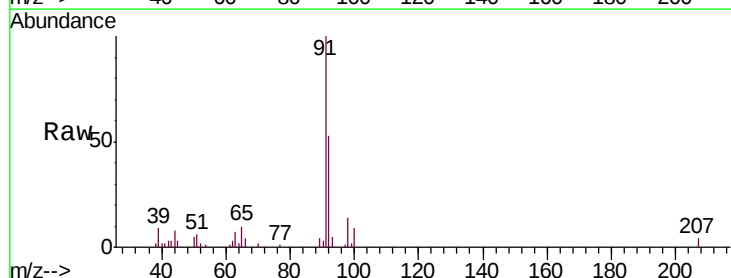


Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 58.05 (57.75 to 58.75): VU0
 Ion 100.15 (99.85 to 100.85): VU0

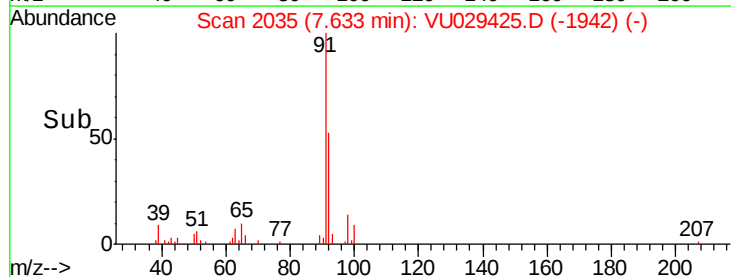
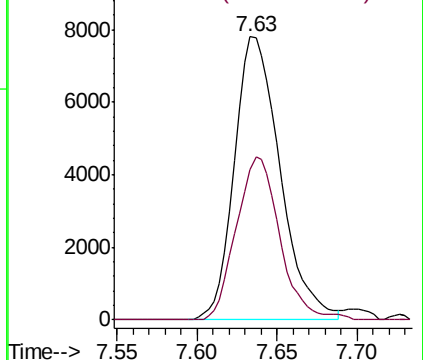


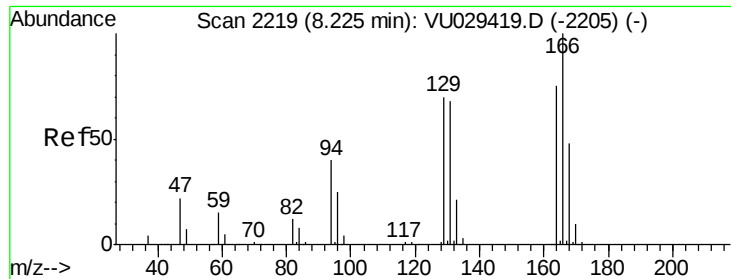
#42
 Toluene
 Concen: 0.250 ug/L
 RT: 7.63 min Scan# 2035
 Delta R.T. -0.00 min
 Lab File: VU029425.D
 Acq: 12 Feb 2019 17:19

Tgt Ion: 91 Resp: 15269
 Ion Ratio Lower Upper
 91 100
 92 53.1 39.8 73.8



Abundance Ion 91.15 (90.85 to 91.85): VU0
 Ion 92.15 (91.85 to 92.85): VU0





#47

Tetrachloroethene

Concen: 0.079 ug/L

RT: 8.23 min Scan# 2221

Delta R.T. 0.01 min

Lab File: VU029425.D

Acq: 12 Feb 2019 17:19

Instrument :

MSVOA_U

ClientSampleId :

ESXA6

Tgt Ion:164 Resp: 1109

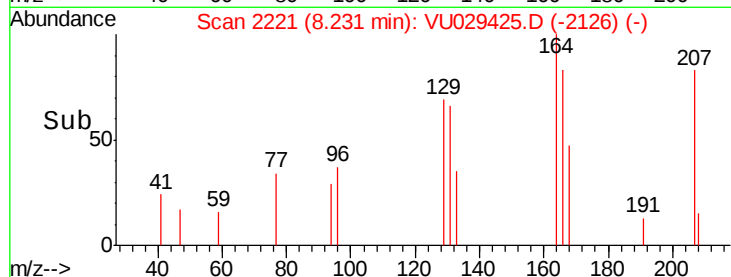
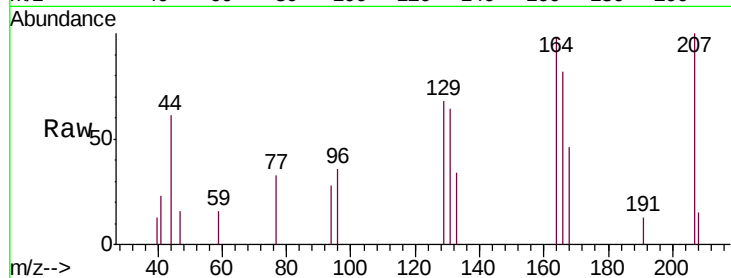
Ion Ratio Lower Upper

164 100

129 69.2 62.9 116.9

131 65.8 62.1 115.3

166 83.4 89.8 166.8#

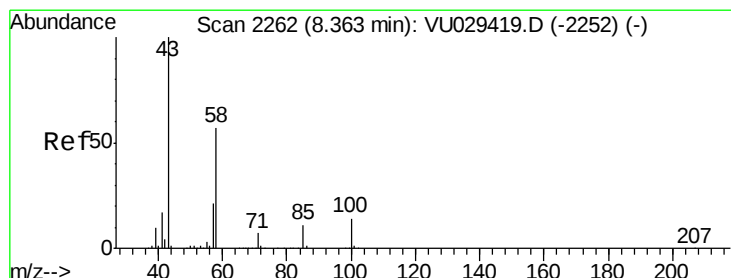
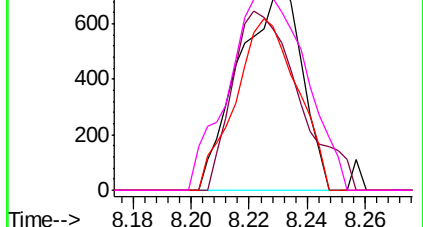


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 0.397 ug/L

RT: 8.37 min Scan# 2263

Delta R.T. 0.00 min

Lab File: VU029425.D

Acq: 12 Feb 2019 17:19

Tgt Ion: 43 Resp: 2269

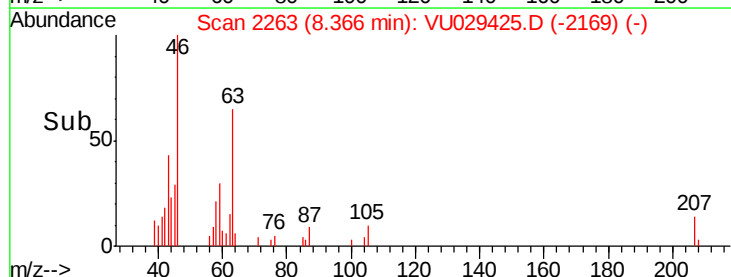
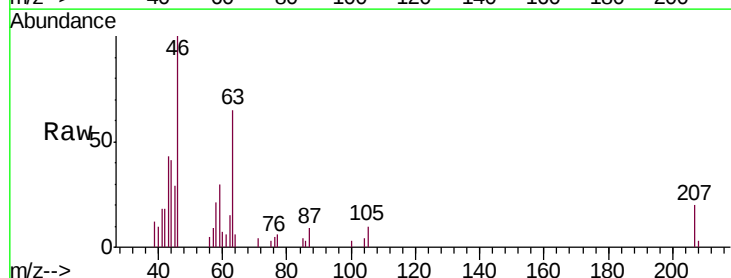
Ion Ratio Lower Upper

43 100

58 0.0 45.7 68.5#

57 0.0 16.4 24.6#

100 1.9 11.1 16.7#

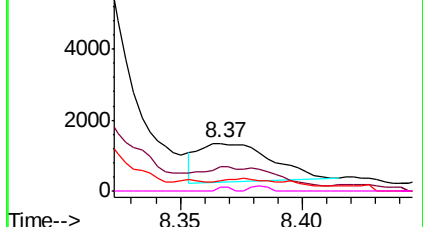


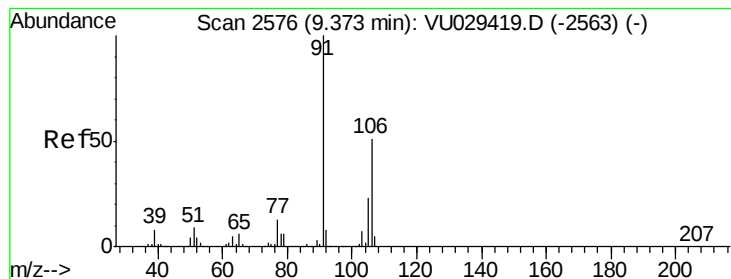
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#53

m,p-xylene

Concen: 0.090 ug/L

RT: 9.38 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VU029425.D

Acq: 12 Feb 2019 17:19

Instrument :

MSVOA_U

ClientSampleId :

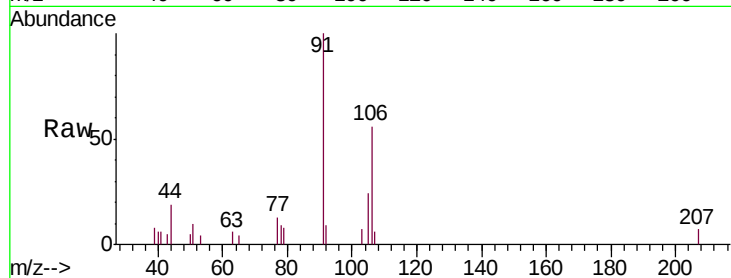
ESXA6

Tgt Ion:106 Resp: 2477

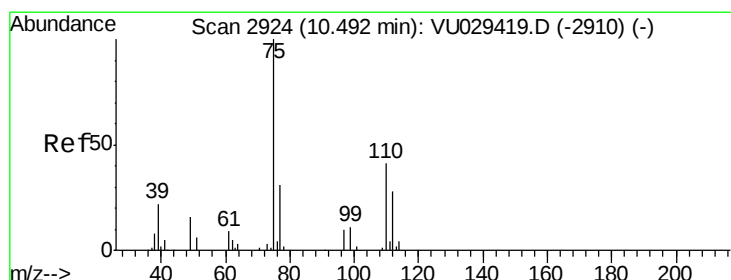
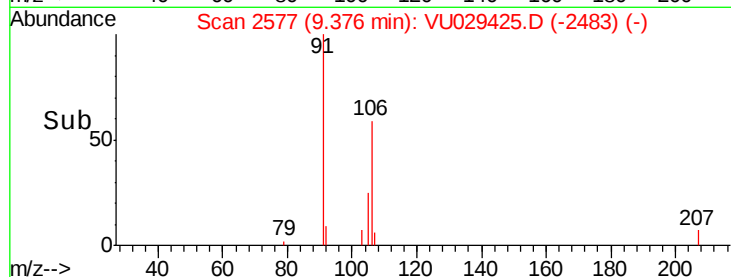
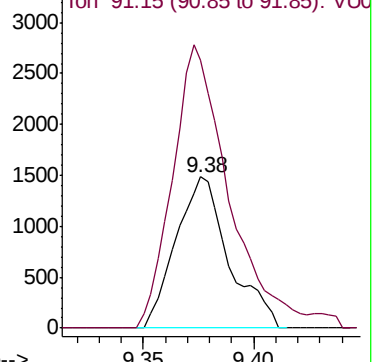
Ion Ratio Lower Upper

106 100

91 177.3 135.7 251.9



Abundance Ion 106.15 (105.85 to 106.85): VU029419.D (-2563) (-)



#59

1,2,3-Trichloropropane

Concen: 1.077 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. 0.99 min

Lab File: VU029425.D

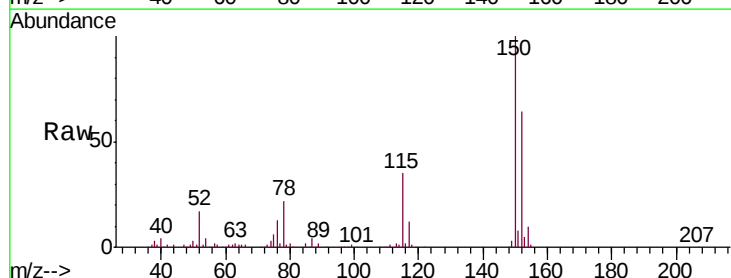
Acq: 12 Feb 2019 17:19

Tgt Ion: 75 Resp: 9403

Ion Ratio Lower Upper

75 100

77 39.1 28.2 42.2



Abundance Ion 75.00 (74.70 to 75.70): VU029419.D (-2910) (-)

